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Issue of October 2, 1923.

Trade-Marks	560—No.	173,595 to No.	174,154, inclusive.
Labels	31—No.	26,437 to No.	26,467, inclusive.
Prints	23—No.	6,905 to No.	6,927, inclusive.
Reissues	4—No.	15,692 to No.	15,695, inclusive.
Designs	55—No.	63,062 to No.	63,116, inclusive.
Patents	559—No.	1,469,206 to No.	1,469,764, inclusive.
Total	1232		

Notice of Cancellation.

U. S. PATENT OFFICE, *Washington, Sept. 13, 1923.*

Lottie Lillingston, her assigns or legal representatives, take notice:

A cancellation proceeding has been instituted by this Office upon the application of C. Benedict Mfg. Co., of 559 Mission Street, San Francisco, Calif., to effect the cancellation of the trade-mark registration of Henry W. Lyon, of Bridgeport, Conn., No. 25,969, dated February 5, 1895. The records of this Office show that Lottie Lillingston is the assignee of said Lyon. The notice of such proceeding sent by the applicant by registered mail to joint respondent Lottie Lillingston at her address of record, Bridgeport, Conn., having been returned by the post office undeliverable, notice is hereby given that unless said Lottie Lillingston, her assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as to her interest, if any, as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Interference Notices.

U. S. PATENT OFFICE, *Washington, Sept. 19, 1923.*

Benoist Bros. Mfg. Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Albert Setzer, of 59 Broadway, Providence, R. I., for registration of a trade-mark and trade-mark registered February 15, 1910, No. 76,778, to Benoist Bros. Mfg. Co., of 3923 Olive Street, St. Louis, Mo., and a notice of such declaration sent by registered mail to said Benoist Bros. Mfg. Co., at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Benoist Bros. Mfg. Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Sept. 13, 1923.*

John W. Stover, his assigns or legal representatives, take notice:

An interference having been declared by this Office between Frank C. Wahlenmaier, 748 Minnesota Avenue, Kansas City, Kans., for registration of a trade-mark and trade-mark registered October 13, 1908, No. 70,848, to John W. Stover, 1341 Oakdale Avenue, Grand Rapids, Mich., and a notice of such declaration sent by registered mail to said John W. Stover at the said address having been returned by the post office undeliverable, notice is hereby given that unless said John W. Stover, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Sept. 6, 1923.*

Seymour W. McTaggart, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of D. B. Smith & Company, Inc., of 414 Main Street, Utica, N. Y.; Charleston Drug Mfg. Co., of 37–39 Hayne Street and 100–102 Market Street, Charleston, S. C.; and L. Perrigo Company, of Allegan, Mich., for registration of a trade-mark and trade-mark registered Oct. 10, 1893, No. 23,704, to Seymour W. McTaggart, of 38 North Prince Street, Lancaster, Pa., and a notice of such declaration sent by registered mail to said McTaggart at the said address having been returned by the post office undeliverable, notice is hereby given that unless said McTaggart, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

Amendments.

RULE 73. In every amendment the exact word or words to be stricken out or inserted in the application must be specified and the precise point indicated where the erasure or insertion is to be made. All such amendments must be on sheets of paper separate from the papers previously filed, and written on but one side of the paper. Erasures, additions, insertions, or mutilations of the papers and records must not be made by the applicant.

Amendments and papers requiring the signature of the applicant must, also, in case of assignment of an undivided part of the invention, be signed by the assignee. (Rules 6, 107.)

Condition of Applications Under Examination at Close of Business September 22, 1923.

(Total number of applications awaiting action, excluding Trade-Mark Division, 76,369; Trade-Mark Division, 3,366. Oldest new case, Nov. 11, 1922; oldest amended, Nov. 16, 1923. The dates given are 1922 except where * indicates 1923.)

Issue No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Dec. 4	Dec. 11	1,347
128	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Dec. 21	Nov. 16	1,453
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Dec. 12	*Mar. 12	1,371
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Nov. 11	*Feb. 28	1,677
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Nov. 17	Nov. 23	1,543
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Medicines; Plastic Compositions; Substance Preparation.	Oct. 27	*Mar. 12	1,820
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	Dec. 12	*Jan. 9	2,835
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*Mar. 3	*May 8	1,866
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	Dec. 15	Aug. 4	904
235	10. HUNTER, O. F. (Acting), Motor Vehicles; Land Vehicles—Animal Draft Appliances, Bodies and Tops, Dumping, Wheel Substitutes.	Dec. 4	*Feb. 28	1,542
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skin, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Mar. 19	*Feb. 21	991
322	12. PIERCE, P. P., Machine Elements	*Jan. 10	*Jan. 29	1,458
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	Dec. 12	*Apr. 26	1,259
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Nov. 22	*July 12	1,142
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Nov. 22	Dec. 15	2,186
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Dec. 1	Nov. 29	2,643
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Association or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Nov. 22	*Mar. 6	1,675
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	Nov. 24	Nov. 22	2,106
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	*May 8	*May 26	694
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Mar. 2	*Jan. 15	1,638
212	21. THURBER, W. L., Winding and Reeling; Textiles—Braiding, Netting, or Lace Making, Cloth Finishing, Fiber Preparation, Knitting, Spinning, Twisting or Twining, Weaving.	Nov. 25	*May 21	1,054
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	*Jan. 5	*Feb. 5	648
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	Nov. 15	Dec. 11	865
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Nov. 24	*Feb. 8	1,366
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Gas Separation.	*Apr. 2	*Feb. 10	1,080
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Nov. 29	Dec. 6	1,039
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Dec. 13	Feb. 5	1,550
225	28. BENSON, A. R., Internal-Combustion Engines	*Jan. 29	*Jan. 27	1,433
147	29. MORRIS, B. N., Abrading; Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Dec. 16	*Mar. 12	1,389
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	*Jan. 8	*May 28	1,935
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar, Starch, and Carbohydrates; Concentrating Evaporators.	Nov. 22	Nov. 21	1,679
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Dec. 1	Nov. 18	1,423
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	Dec. 23	Dec. 22	1,745
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Feb. 2	*Mar. 10	889
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Mar. 16	*Apr. 27	1,022
265	36. MORTON, C. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Mar. 8	Feb. 12	2,088
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Dec. 1	Dec. 4	1,930
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Dec. 8	Dec. 1	2,048
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Nov. 29	Nov. 17	1,421
269	40. OBERLIN, J. J., Baggage; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Nov. 27	*Apr. 27	2,162
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	*Jan. 17	*Mar. 6	995
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Nov. 11	Dec. 18	1,771
382	43. HOPKINS, F. M., Baths and Closets; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	*Jan. 23	Nov. 29	1,914
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	Dec. 11	*Apr. 2	1,227
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	*Jan. 20	Dec. 7	1,682
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	*Jan. 6	*Jan. 15	1,506
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time-Controlling Mechanism.	Dec. 16	*Apr. 6	1,201
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Nov. 23	Nov. 23	2,437
383	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	*Jan. 2	*Jan. 17	607
102	DESIGNS: C. O. MARKHAM (Acting)	*Mar. 24	*Mar. 14	2,113
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. — Trade-Marks	*June 4	*Aug. 1	3,341
	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. — Labels and Prints	*Sept. 8	*Sept. 17	25

DECISIONS IN PATENT AND TRADE-MARK CASES.

Commissioner's Decision.

EX PARTE THE F. & M. SCHAEFER BREWING COMPANY.

Decided May 4, 1923.

1. PRINTS AND LABELS—FEE FOR EXTENDING TERM OF REGISTRATION.

If the Copyright Act is to be construed as conferring upon the Commissioner of Patents the authority to receive the application for the extension of the term of a registration of a print or label and to record the same, then it must be in accordance with the rules and regulations relating to copyrights, except as to the fee, and the fee, therefore, must be six dollars, the same as for the original registration.

2. SAME—APPLICATION FOR RENEWAL.

The Copyright Act of 1909 provides for the renewal of a copyright subsisting at the time of the passage of that act by the proprietor in the case of a composite work only, *Held* that the "proprietor of a copyright print" which makes no showing that it is the "author" has no right of renewal.

3. SAME—APPLICATION FOR RENEWAL MUST BE "DULY REGISTERED" WITHIN ONE YEAR PRIOR TO EXPIRATION OF EXISTING TERM.

The application for renewal was not made "and duly registered" within one year prior to the expiration of the existing term. While the application was made within one year prior to the expiration of the term, the application was not "duly registered" within that period, since the applicant did not within that period pay the requisite fee. The "period" having expired, the additional amount necessary to complete the fee of six dollars cannot now be accepted, since the registration could not be "duly registered" within the period specified in the act.

ON APPEAL.

PRINT FOR LAGER BEER.

Mr. Chauncey P. Carter for the applicant.

FENNING, *Assistant Commissioner:*

This is an appeal from the decision of the Examiner of Trade-Marks refusing to renew the registration of a print.

The application for renewal was accompanied by a fee of fifty cents. The Examiner of Trade-Marks held that under the Copyright Act and the rules relating to the registration of prints and labels the fee for renewal is six dollars and refused to renew the registration unless applicant should pay the additional five dollars and fifty cents.

Applicant contends that under section 61 of the Copyright Act of 1909 the renewal fee is fixed at fifty cents.

The act of 1874 provides that the words "engraving, cut and print," as used in that act, shall be applied only to pictorial illustrations or works connected with the fine arts and that—

> no prints or labels designed to be used for any other article of manufacture shall be entered under the copyright law; but may be registered in the Patent Office,

and that the Commissioner of Patents is charged with the supervision and control of the entry or registry of such prints or labels—

> in conformity with the regulations provided by law as to copyright of prints, except that there shall be paid for recording the title of any print or label, not a trade-mark, six dollars.

That act contained no provision for the renewal of the registration. At the time that act was passed the copyright law (R. S. 4953 and 4954) provided that copyrights should be granted for the term of 28 years from the time of recording the title thereto and that the author, inventor, or designer, if he be living, or his widow or children, if he be dead, should have the same exclusive right continued for the further term of 14 years—

> upon recording the title of the work or description of the article so secured a second time, and complying with all other regulations in regard to original copyrights within six months before the expiration of the first term.

In the case of *Higgins* v. *Keuffel* (140 U. S., 428; 1891, C. D., 403) the Supreme Court held that the Label and Print Act of 1874 related to copyrights and that the requirements of the copyright statutes applied to such registration.

The present Copyright Act provides (section 24) that a copyright subsisting at the time the act went into effect may, at the expiration of the term, be renewed by the author, if still living, or the widow, widower, or children of the author, if the author be not living, or, if they be not living, by the author's executor, or, in the absence of a will, his next of kin—

> for a further period such that the entire term shall be equal to that secured by this act, including the renewal period,

and further, that in the case of a composite work upon which the copyright was originally secured by the proprietor thereof, that the proprietor shall be entitled to the privilege of renewal and extension—

> Provided, That application for such renewal and extension shall be made to the copyright office and duly registered therein within one year prior to the expiration of the existing term.

Section 61 provides—

> that the register of copyrights shall receive * * * the following fees: for the registration of any work subject to copyright, deposited under the provisions of this act, one dollar, * * * for recording the extension of renewal of copyright provided for in sections twenty-three and twenty-four of this act, fifty cents.

As noted above, the act of 1874 does not in itself provide for an extension of a copyright. Such extension can be granted by this Office only if the act of 1909 be construed as giving the Commissioner of Patents the same authority to accept the fee for, and the entry of, the renewal as is given by the Copyright Act to the register of copyrights.

[1] The act of 1874 provides that the entry or registry of prints or labels in the Patent Office shall be—

> in conformity with the regulation provided by law as to copyrights or prints, except that there shall be paid for recording the title of any print or label, not a trade-mark, six dollars.

If the Copyright Act is to be construed as conferring upon the Commissioner of Patents the authority to receive the application for the extension of the term of a registration of a print or label and

to record the same, then it must be in accordance with the rules and regulations relating to copyrights, except as to the fee, and the fee, therefore, must be six dollars, the same as for the original registration.

The act of 1909, section 24, which provides for the renewal of any copyright subsisting at the time of the passage of that act, also provides for the extension and renewal by the proprietor only in the case of a composite work, that is, as specified in section 23, a work including—

a contribution by an individual author to a periodical or to a cyclopedic or other composite work.

[2] The original registration by The F. and M. Schaefer Company was applied for by it as "the sole proprietor," and the application for renewal is made by The F. and M. Schaefer Company as "proprietor of the copyright print." There is nothing to show that The F. and M. Schaefer Company is the author, including in that term "an employer in the case of works made for hire" (section 62). If the applicant is the proprietor, and not the "author," then no right of renewal exists under the express provisions of section 24.

The question of the right of a proprietor as distinguished from the author to renew a copyright in existence at the time of the passage of the act of 1909 is fully discussed in the case of *White-Smith Music Publishing Co.* v. *Goff* (187 F. R., 247), in which it was held that the proprietor, as distinguished from an author, could not effect such renewal.

The act of 1874 relates to "prints or labels designed to be used for any other article of manufacture," and rule 30 provides that "no print or label can be registered unless it properly belongs to an article of manufacture and is descriptive thereof." The label in the present case is in no way descriptive of "lager beer," the goods which it is stated in the original application it is to be used in advertising the sale of, and therefore the label itself is not now registrable under the statutes and the rules. It may be, therefore, that the certificate should not be renewed.

[3] Another ground for refusing registration is that the application for such renewal was not made "and duly registered" within one year prior to the expiration of the existing term. The print was registered in January 29, 1895, and the term of 28 years expired January 29, 1923. While the application was made within one year prior to the expiration of the term, the application was not "duly registered" within that period, since the applicant did not within that period pay the requisite fee. The "period" having expired, the additional amount necessary to complete the fee of six dollars can not now be accepted, since the registration could not be "duly registered" within the period specified in the act.

To recapitulate, the renewal must be refused on the ground that the requisite fee of six dollars was not paid within the specified period, and the further ground that there is no evidence to show that the applicant is the "author" within the meaning of sections 24 and 62 of the act of 1909.

The decision of the Examiner of Trade-Marks is affirmed.

ON REHEARING, MAY 17, 1923.

At this rehearing it is vigorously urged that the fee provided by the 1909 statute for the renewal of a copyrigh is fifty cents and that, therefore, the fee for renewal of registration of a label or print should be but fifty cents.

It seems clear, however, that the 1874 act, under which labels and prints are registered in the United States Patent Office, contemplated that there should be a clear distinction between labels and prints and other subjects matter of copyright with respect to fees. All copyright regulations apply to labels and prints with the exception of the fee, which is fixed at $6.00. It is clear, therefore, that if the 1909 statute, or any other act, gives the right to renew a label or print registered in the Patent Office it is given only with the exception noted in this 1874 statute—namely, that the fee shall be $6.00.

Since applicant has not presented the $6.00 fee before the copyright expired, renewal can not be obtained.

U. S. Circuit Court of Appeals—Eighth Circuit.

ALFOCORN MILLING CO. *v.* EDGAR-MORGAN CO.

Decided June 15, 1922. Rehearing denied October 2, 1923.

[283 Fed. Rep., 394.]

1. TRADE-MARKS AND TRADE NAMES AND UNFAIR COMPETITION—WORD "HAPPY" CAN NOT BE EXCLUSIVELY APPROPRIATED FOR TRADE-MARK.

   The word "Happy" is in its nature such that it can not be exclusively appropriated for a trade-mark or trade name, with the result that, though complainant first used it in the name of its hen feed, defendant, who thereafter used it in the name of its horse and mule feed was not required to desist on complainant later producing a horse and mule feed and using such word in its name.

2. SAME—UNFAIR COMPETITION NOT SHOWN.

   Notwithstanding the use of the word "Happy" in the names of the domestic animal feeds of both parties, unfair competition is not shown, there being no proof of confusion of the product of one with that of the other, or of deception of purchasers.

APPEAL from the District Court of the United States for the Eastern District of Missouri; Charles B. Faris, judge.

Suit by the Edgar-Morgan Company against the Alfocorn Milling Company. Decree for complainant (270 Fed., 344), and defendant appeals. Reversed, with direction to dismiss.

Mr. Howard G. Cook (*Messrs. Cobbs & Logan* on the brief) for appellant.

Mr. Arthur E. Wallace (*Mr. Hezekiah Sanders* on the brief) for appellee.

Before LEWIS, Circuit Judge, and TRIEBER and POLLOCK, District Judges.

POLLOCK, *D. J.*:

This appeal challenges the right of appellee, as complainant below, to a decree restraining appellant, defendant below, from the manufacture and marketing of a domestic animal food product packed in jute bags, bearing the label "Happy Mule Horse and Mule Feed," with the picture of a mule underneath, together with the name "Alfocorn Company" quite prominently displayed thereon.

The parties will be designated, for convenience, as in the court below. The grounds of complaint are: (1) The infringement of a common-law trade-mark; (2) unfair competition in business.

The facts are: In 1915 complainant commenced the manufacture of a domestic fowl feed under the name "Happy Hen Scratch Feed," packed in jute bags, and underneath the legend the picture of a scratching hen. Thereafter, in 1918, it began to manufacture and market other so-called "Happy Brands" of food, such as "Happy Hog Feed," "Happy Cow Feed," "Happy Chick Feed," etc. The "Happy Hen Scratch Feed" manufactured by complainant was extensively advertised, especially in the South, and large sales thereof made by complainant in the years 1916, 1917, and 1918. This feed was marketed in jute bags in which there was inscribed the legend "Happy." In compliance with the local laws of many States the "Happy Hen Scratch Feed" manufactured by complainant, and its other feed products thereafter produced, were registered. However, complainant did not make, sell, or market any of its "Happy Horse and Mule" products, or other of its "Happy Brand" of feeds, until the month of September, 1919, at which time it registered its formula, brands, and trade-mark for this and other brands not heretofore registered. Meanwhile defendant, in April, 1918, commenced the manufacture and marketing of a domestic animal food product under the name "Happy Mule Horse and Mule Feed" in the manner above stated. At the trial there was a decree for complainant. Defendant appeals.

An examination of the record discloses it was the view of the trial court, notwithstanding it was shown by the proofs the word "Happy," long before its use by complainant, had been employed by others to designate a brand or make of cookies or cakes, canned meats, etc., yet, complainant having employed it in the manner stated in the manufacture and sale of its "Happy Hen Feed," this was such an exclusive appropriation of the word and the manner of display complainant might restrain defendant from using the same by its extension to other domestic food products, under the doctrine announced in *Florence Mfg. Co.* v. *J. C. Dowd & Co.* (178 Fed., 73; 101 C. C. A., 565) and other cases. In this present case complainant was engaged merely in the production and sale of a chicken feed when defendant began its manufacture and sale of a horse and mule feed. The trial court held, solely because complainant had used the words "Happy Hen" to describe its chicken feed, and the defendant employed the term "Happy Mule" to describe its horse and mule feed, almost two years thereafter, when complainant decided to begin the manufacture and sale of its horse and mule feed under the appellation "Happy," defendant must desist from any further pursuit of its business and account to complainant for profits made. Obviously, such ruling can rest alone on one basis, namely, the right of complainant to the exclusive appropriation to its use to any and all kinds of domestic fowl and animal products which it now or at any further date shall manufacture and sell under the name or appellation of the word "Happy."

[1] We are of the opinion this word "Happy" is one of such nature as to be incapable of such exclusive appropriation and extension by any one. The rule in such cases is very clearly stated by Mr. Justice Strong in *Canal Co.* v. *Clark* (13 Wall., 311; 20 L. Ed., 581), in which it is said:

The trade-mark must therefore be distinctive in its original signification, pointing to the origin of the article, or it must have become such by association. And there are two rules which are not to be overlooked. No one can claim protection for the exclusive use of a trade-mark or trade name which would practically give him a monopoly in the sale of any goods other than those produced or made by himself. If he could, the public would be injured rather than protected, for competition would be destroyed. Nor can a generic name, or a name merely descriptive of an article of trade, of its qualities, ingredients, or characteristics, be employed as a trade-mark and the exclusive use of it be entitled to legal protection. As we said in the well-considered case of *Amoskeag Manufacturing Company* v. *Spear*, "the owner of an original trade-mark has an undoubted right to be protected in the exclusive use of all the marks, forms, or symbols, that were appropriated as designating the true origin or ownership of the article or fabric to which they are affixed; but he has no right to the exclusive use of any words, letters, figures, or symbols which have no relation to the origin or ownership of the goods, but are only meant to indicate their names or quality. He has no right to appropriate a sign or a symbol which, from the nature of the fact it is used to signify, others may employ with equal truth, and therefore have an equal right to employ for the same purpose."

As was said by Mr. Justice Field in *Manufacturing Co.* v. *Trainer* (101 U. S., 51; 25 L. Ed., 993; 17 O. G., 1217):

The limitations upon the use of devices as trade-marks are well defined. The object of the trade-mark is to indicate, either by its own meaning or by association, the origin or ownership of the article to which it is applied. If it did not, it would serve no useful purpose either to the manufacturer or to the public; it would afford no protection to either against the sale of a spurious in place of the genuine article. This object of the trade-mark and the consequent limitations upon its use are stated with great clearness in the case of *Canal Company* v. *Clark*, reported in the 13 Wallace.

In *Elgin Nat. Watch Co.* v. *Illinois Watch Co.* (179 U. S., 665; 21 Sup. Ct., 270; 45 L. Ed., 365; 94 O. G., 755) Mr. Chief Justice Fuller, delivering the opinion for the Court, said:

The term [trade-mark] has been in use from a very early date, and, generally speaking, means a distinctive mark of authenticity, through which the products of particular manufacturers or the vendible commodities of particular merchants may be distinguished from those of others. It may consist in any symbol or in any form of words, but as its office is to point out distinctively the origin or ownership of the articles to which it is affixed, it follows that no sign or form of words can be appropriated as a valid trade-mark, which, from the nature of

the fact conveyed by its primary meaning, others may employ with equal truth, and with equal right, for the same purpose. And the general rule is thoroughly established that words that do not in and of themselves indicate anything in the nature of origin, manufacture, or ownership, but are merely descriptive of the place where an article is manufactured or produced, cannot be monopolized as a trade-mark. (*Canal Company* v. *Clark*, 13 Wall., 311; *Brown Chemical Company* v. *Meyer*, 139 U. S., 540; 55 O. G., 287; *Colombia Mill Company* v. *Alcorn*, 150 U. S., 460, and cases cited.)

In *Kellogg Toasted Corn Flake Co.* v. *Quaker Oats Co.* (235 Fed., 657; 149 C. C. A., 77) Warrington, circuit judge, delivering the opinion for the court of appeals of the fourth circuit, says:

The doctrine of technical trade-mark is too well settled to justify an extended citation of the decisions which forbid the employment of essentially descriptive words to indicate the source of an article intended for sale in the market; and this for the manifest reason that the fact expressed by the primary meaning of such words is a fact which others are entitled to express by the same words for the same purpose. (*Elgin Nat. Watch Co.* v. *Illinois Watch Co.*, 179 U. S., 665, 673; 21 Sup. Ct., 270; 45 L. Ed., 365; *Standard Paint Co.* v. *Trinidad Asph. Co.*, 220 U. S., 446, 453; 31 Sup. Ct., 456; 55 L. Ed., 536; 165 O. G., 971; *Columbia Mill Co.* v. *Alcorn*, 150 U. S., 460, 463; 14 Sup. Ct., 151; 37 L. Ed., 1144; *Cellular Clothing Co.* v. *Maxton & Murray*, [1899] A. C., 326, 333, 336, 339, 340; *American Wash Board Co.* v. *Saginaw Mfg. Co.*, 103 Fed., 281, 282; 43 C. C. A., 233; 50 L. R. A., 809; C. C. A., 6; *Computing Scale Co.* v. *Standard Computing Scale Co.*, 118 Fed., at page 967, 52 C. C. A., 459; *Newcomer & Lewis* v. *Scriven Co.*, 168 Fed., 621, 625; 94 C. C. A., 77; *De Voe Snuff Co.* v. *Wolff*, 206 Fed., 420, 423; 124 C. C. A., 302; C. C. A., 6; *Trinidad Asph. Mfg. Co.* v. *Standard Paint Co.*, 161 Fed., 977; 90 C. C. A., 195, affirmed in 220 U. S., 446; 31 Sup. Ct., 456; 55 L. Ed., 536; *Marvel Co.* v. *Pearl*, 133 Fed., 160, 162; 66 C. C. A., 226; C. C. A., 2; *Brennan* v. *Emery-Bird-Thayer Dry Goods Co.*, 108 Fed., 624, 627; 47 C. C. A., 532; C. C. A., 8; *William Wrigley, Jr., & Co.* v. *Grove Co.*, 183 Fed., 99, 101; 105 C. C. A., 391; C. C. A., 2; *Duplex Metals Co.* v. *Standard Underground Cable Co.*, D. C., 220 Fed., 989, 991.)

It must therefore be held the word "Happy," by complainant attempted to be exclusively appropriated as distinctive of its products as a trade-mark or trade name, is, in its very nature, such as to be incapable of such appropriation and extension to any and all domestic fowl and animal food products, as is attempted in this case.

[2] Coming now to the charge of unfair competition laid in the bill, it will suffice to say the proofs do not disclose any confusion of the domestic animal feed products manufactured by complainant with that of defendant. No deception of purchasers is shown. Nor did the trial court uphold this claim of unfair competition in business.

It follows, the decree must be reversed, with directions to dismiss the bill of complaint for want of equity.

U. S. Circuit Court of Appeals—Fifth Circuit.

REED ET AL. v. HUGHES TOOL CO.

Decided July 5, 1923.

[282 Fed. Rep., 807.]

PATENTS—930,759, FOR IMPROVEMENT IN ROTARY DRILLS, HELD VALID AND INFRINGED.

The Hughes patent, No. 930,759, for an improvement in rotary drills, utilizing the water used to force the material cut from the well to serve the further purpose of automatically applying lubricating oil to the drill bit, *Held* valid and infringed.

APPEAL from the District Court of the United States for the Southern District of Texas; Joseph C. Hutcheson, jr., judge.

Suit by the Hughes Tool Company against Clarence E. Reed and another. From a decree for plaintiff, defendants appeal. Affirmed.

Mr. Edward Rector, *Mr. Wm. F. Hall*, and *Mr. B. F. Louis* for appellants.

Mr. John A. Mobley, *Mr. Jesse R. Stone*, and *Mr. Melville Church* (*Mr. F. C. Proctor*, *Mr. C. R. Wharton*, *Messrs. Baker, Botts, Parker & Garwood*, and *Messrs. Andrews, Streetman, Logue & Mobley* on the brief) for appellee.

Before WALKER, BRYAN, and KING, Circuit Judges.

BRYAN, *Cir. J.*:

This is an appeal from a decree holding valid and infringed certain claims of Patent No. 930,759, issued August 10, 1909, to Howard R. Hughes, now owned by appellee, the Hughes Tool Company.

The patent was for an improvement in rotary drills, used principally in drilling oil wells. Such wells are drilled by means of drill pipes and bits. The bits are attached to the lower ends of the pipes. In operation, the bits are made to cut through the earth by rotating the pipes. The bits are greater in diameter than the pipes to which they are attached, and consequently there is left a space between the pipes and the outside wall of the well. In order to remove the cuttings from the bottom of a well to the surface, water is forced down through the pipes and openings in the drill bits, and up between the pipe and the wall of the well.

Improvements in the art of well drilling have resulted in the use of rotary drill bits. It is essential that these bits should be lubricated. One of the important features of the patent in suit is a chamber or reservoir designed for the purpose of being filled with lubricating oil to be supplied to the drill bits; and another feature is to utilize the downward pressure of the water through the drill pipe, so as to force the lubricating oil into and around the drill bits. The patent in suit undertook to accomplish these objects by means of a removable plug at the upper end of the oil chamber, to which is attached a spring, and beneath the latter a piston or plunger. But, in reference to such device specifically described, specifications of the patent contain the following:

While I have herein stated that the lubricant is distributed to the surface on which the rollers bear by means of a spring-pressed plunger, I do not wish it to be understood that my broad idea is limited to such a structure, for, if desired, any other suitable propelling medium than a spring could be employed, or the plug 16 and spring 15 could be removed, and thus permit the pressure of the water which is forced through the operating member 3 to act directly on the plunger 14, and force the lubricant through the ducts and grooves.

The claims of the patent call for—

17. * * * Means arranged adjacent the head for holding a mass of lubricant, and means adapted to be acted upon by the water that is forced through said operating member for supplying the lubricant to the bearings of the cutting rollers.

18. * * * Means for holding a lubricating medium, and means for introducing water into the hole being formed to flush out the disintegrated material, and also supply said lubricating medium to the surface of the head on which the cutting rollers bear.

19. * * * A lubricant holder, ducts leading from said holder to the bearings of said rollers, and a hollow operating member * * * for introducing water into the hole being formed so as to flush out said hole, and also exert pressure on the lubricant in said holder.

20. * * * A lubricant holder arranged * * * so that the force of the water * * * will be exerted on the lubricant, and ducts leading from said lubricant holder conducting the lubricant to the surface of the head with which the cutting rollers contact.

21. * * * A hollow lubricant holder * * * and means for conducting the lubricant in said holder to the surfaces of the head on which the cutting rollers bear, the pressure of the water that is forced through said hollow operating member being exerted on the lubricant, and thus applying it automatically to said bearing surfaces.

22. * * * A hollow member * * * and ducts leading from said hollow member to the bearings of said rollers, the pressure of the water that is forced through the tubular shaped operating member causing the lubricant to be forced through said ducts.

23. * * * A hollow member * * * to contain a lubricant, ducts leading from said hollow member to the bearings of said rollers, and a plunger for forcing the lubricant through said ducts, said plunger being subjected to the pressure of the water that passes through the operating member, and thus causing the lubricant to be automatically supplied to the rollers.

It was admitted by appellee that the plug and spring, described in the drawings accompanying the application for patent, were not practical at great depths; but it was shown that at a depth of 4,000 or 5,000 feet, or more, lubrication was successfully supplied to the drill bits by removing the plug and spring, and relying alone upon the plunger, and there was some testimony that, even without the plunger, the lubrication was successful and satisfactory where the lubricant used was very heavy oil, but that with the lighter lubricant in common use in oil wells a perforated cap or baffle plate, instead of a solid plug, at the head of the lubricant chamber, was found desirable, if not necessary.

The patentee, Hughes, applied for an amendment to his patent, so as to include such perforated cap or baffle plate; but his application was denied. Whereupon he applied for and was granted on May 31, 1910, an additional patent, No. 959,539, covering specifically the use of the perforated cap. It would be useless to attempt to describe the lubricating device used by appellants in their competitive drill bits. In that connection it is sufficient to say that it was admitted by the expert witness of appellants, who furnished the only evidence in justification of the alleged infringement, that there is no substantial difference between appellee's lubricating device and that of appellants.

The bill of appellee also alleged that appellants were infringing other patents for rotary drills. But inasmuch as the injunction prayed for as to them was refused by the court, and appellee has not appealed, the only question on this appeal is whether the court below erred in holding valid and infringed the claims of Patent No. 930,759, covering appellee's lubricating device. It is contended that the decree was erroneous, upon the grounds: (1) that the lubricating device patented is not useful or operable; (2) that the representation of the best mode of operating the device particularly described in the specifications, and shown by the drawings, was untrue and misleading; and (3) that the device was not a patentable improvement upon the prior art.

1. We are of opinion that the device of the patent in suit is useful and operable. The claims of that patent are clearly for much more than the method of operation by plug and spring, and are infringed by the lubricating device used by appellant, even if it be conceded, as contended, that the taking out by Hughes of a subsequent patent for a perforated cap estops him and appellee from now insisting that such perforated cap is covered by the first patent and is only an improvement which would have occurred to one skilled in the art.

2. The contention that Hughes concealed the defects of his patent, and that his conduct was such as to lead the public to believe that his invention could be successfully operated by the use of plug and spring, is without force or effect, in view of the prompt action taken by Hughes to secure, first by amendment, and then by an independent patent, protection in the use of the perforated cap.

3. It appears from the evidence that several expired patents contain the idea of applying lubricating oil to machinery by pressure, either of air, steam, or water. But it is not seriously contended that any prior patent anticipated the idea expressed in the Hughes patent to so utilize the water, which is forced down through the drill pipe and the cutting device, for the purpose of forcing the material cut up between the pipe and the wall of the well to the surface of the ground, as to make it serve the further purpose of automatically applying the lubricating oil to the drill bit at the bottom of the well. The additional idea that, when water was not being forced through the drill pipe, the flow of the lubricant would be stopped, or practically so, and thus save waste, appears to have been new.

The invention of Hughes met a great need in the oil industry, and was undoubtedly a very valuable improvement upon the prior art. The principles of law which govern this case are well stated in 20 R. C. L. 1125 and 1126, where a large number of Supreme Court cases which sustain the text are cited, as follows:

A combination is a composition of elements, some of which may be old and others new, or all old or all new. It is, however, the combination that is the invention, and is as much a unit in contemplation of law as a single or noncomposite instrument. The authorities establish the following propositions respecting the patentability of devices or processes of this character: (1) That a combination is patentable if it produces new and useful results, though all its constituents were well known and in common use before it was made, provided the results are a product of the combination, and not a mere aggregate of several results, each the product of one of the combined elements. (2) If it produces a different force, effect, or result in the combined forces or processes from that given by their separate parts, and a new result is given by their union. (3) If it either forms a new machine of distinct character or formation, or produces a result which is not the mere aggregate of separate contributions, but is due to the joint and co-operating action of all the elements. (4) When the several elements of which it is composed produce by their joint action either a new and useful result, or an old result in a cheaper or otherwise more advantageous way.

Particular changes may be made in the construction and operation of an old machine, so as to adapt it to a new and valuable use not known before, and to which the old machine had not been, and could not be, applied without those changes, and, under those circumstances, if the machine, as changed and modified, produces a new and useful result, it may be patented, and the patent will be upheld under existing laws. Such a change in an old machine may consist merely of a new and useful combination of the several parts of which the old machine is composed, or it may consist of a material alteration or modification of one or more of the several devices which

entered into its construction, and whether it be one or the other, if the change of construction and operation actually adapts the machine to a new and valuable use not known before, and it actually produces a new and useful result, then a patent may be granted for the same, and it will be upheld as a patentable improvement. But a combination, to be patentable, must not be merely an aggregation of separate elements or of old results, each working out its own effect without producing anything novel, or a mere mechanical juxtaposition; it must form either a new machine of a distinct character and function, or producing a result due to the joint and co-operating action of all the elements.

We think the invention is patentable, because it is new and is not the mere aggregate of separate contributions, but is the result of their joint action. It is apparent from the evidence, as well as from a comparison of the lubricating devices used by the parties to this suit, that appellants have infringed upon the claims of the patent owned by appellee. We think appellee is entitled to protection, not only against the use of the perforated cap, but also to the broader protection of an injunction against any infringement.

The decree is affirmed.

ADJUDICATED PATENTS.

(C. C. A. Wis.) Cowles patent 705,042, for fire escape, *Held* valid and infringed. *U. S. Fire Escape Counterbalance Co.* v. *Wisconsin Iron & Wire Works*, 290 Fed. Rep., 171.

(C. C. A. Ill.) Rodman patent, 949,442, for preparation for case-hardening steel, *Held* void for lack of invention. *Scofield* v. *Rodman Chemical Co.*, 290 Fed. Rep., 169.

(D. C. N. Y.) Nagy patent, 1,063,720, for crown-cork-assembling machine, claim 1, *Held* valid, but not infringed. *Nagy* v. *International Cork Co.*, 290 Fed. Rep., 223.

(C. C. A. Calif.) Trumble patent, 1,269,134, for oil and gas separator, *Held* infringed. *Lorraine* v. *Townsend*, 290 Fed. Rep., 54.

(C. C. A. N. Y.) Rosenfield patent, 1,286,115, for vacuum cleaner, claim 4, *Held* void; claims 1 to 3 *Held* not infringed. *Electric Vacuum Cleaner Co.* v. *Jorgensen*, 290 Fed. Rep., 184.

(C. C. A. N. Y.) Haynes patent, 1,299,404, and Brearley patent, 1,197,256, for stainless steel, *Held* valid and infringed. *American Stainless Steel Co.* v. *Ludlum Steel Co.*, 290 Fed. Rep., 103.

(D. C. N. Y.) Nagy patent, 1,419,583, for feeding attachment for cork-assembling machines, *Held* valid, except claim 1, but not infringed. *Nagy* v. *International Cork Co.*, 290 Fed. Rep., 223.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

816,543, Erb & Powlison, Rotary disk plowing attachment, bill dismissed upon stipulation without prejudice upon payment of costs by plaintiff, D. C., D. Minn., *Disc Grader & Plow Co.* v. *Western Wheeled Scraper Co.*

831,501, H. M. Dickinson, Candy-pulling machine; 857,770, C. Thibodeau, same, suit filed Aug. 13, 1923, D. C., E. D. N. Y., Doc. 1307, *H. A. Hildreth* v. *A. Bonomo.*

857,770. (See 831,501.)

956,730, A. Pokorny, Stenciling apparatus, suit filed June 22, 1923, D. C., D. Minn., Doc. E 605, *National Sign Stencil Co.* v. *The Display Material Co. et al.*

958,478, W. E. Davey, Process of reenforcing trees, suits filed Sept. 4, 1923, D. C., E. D. Mich. (S. D.), Doc. 607, *The Davey Tree Expert Co.* v. *Olin & Olin.* Same, D. C., N. D. Calif. (S. D.), Doc. E 1105, *The Davey Tree Expert Co.* v. *McClenahan & Nolan.*

971,516, I. K. Beaver, Nozzle, suit filed Sept. 5, 1923, D. C., M. D. Pa., Doc. 394, *Beaver, Straub & Leopold (Robinson Specialty Co.)* v. *The American Safety Lamp & Mines Supply Co.*

1,113,149, E. H. Armstrong, Wireless receiving system, suits filed Sept. 5, 1923, D. C., S. D. N. Y., Doc. E 27/101, *Westinghouse Electric & Mfg. Co.* v. *Neon Lamp Works, Inc., et al.* Same, Doc. E 27/102, *Westinghouse Electric & Mfg. Co.* v. *Somerfield & Asch (Army & Navy Trading Co.).*

1,191,306, T. A. Hoover, Bumpers for vehicles, suit filed Aug. 31, 1923, D. C., N. D. Calif., Doc. E 1104, *American Chain Co., Inc.*, v. *Weinstock-Nichols Co. et al.*

1,229,102. B. E. Lloyd, Talking doll, suit filed Aug. 1, 1923, D. C., E. D. N. Y., Doc. 1303, *B. E. Lloyd et al.* v. *Ohlbaum & Brahams, Inc., et al.*

1,275,478, C. C. Ryan, Lock nut and bolt, suit filed May 2, 1923, D. C., D. Minn., Doc. 602, *C. Ryan* v. *The Illinois Steel Co.*

1,295,028. (See 1,303,836.)

1,303,836, Wyckoff & Handschiegl, Art of coloring cinematographic films; 1,303,837, same, Machine for and art of coloring cinematographic films; 1,295,028, M. Handschiegl, Cinematographic-film-coloring machines, suits filed Sept. 11, 1920, D. C., S. D. Calif., Doc. E 90, *Famous Players Lasky Corp.* v. *M. Handschiegl et al.* Decree adjudging infringement by defendant of all claims of Letters Patent 1,303,837, and claims 1, 2, 5, 6, 7, 8, 9 and 10 of Letters Patent 1,295,028, and noninfringement of Letters Patent 1,303,836. Defendant permanently enjoined from infringing the above-mentioned claims of Letters Patents 1,295,028 and 1,303,837; said decree also adjudging infringement by the plaintiff of claims 3, 4, and 12 of said Letters Patent 1,295,028, and plaintiff permanently enjoined from infringing claims 3, 4, 11, 12, and 13 of said patent. Same, Doc. E 91, *Famous Players-Lasky Corp.* v. *M. Handschiegl.* Final decree ordering specific performance of contracts to transfer to plaintiff the whole and exclusive right to make, use, and sell the invention as patented in or by claims 1, 2, 5, 6, 7, 8, 9, and 10 of Letters Patent 1,295,028, and specific performance of contracts as to Letters Patent 1,316,791 denied. Injunction issued restraining defendant from transferring to others than plaintiff or encumbering any of the rights in inventions patented by the above-mentioned claims of Letters Patent 1,295,028.

1,303,837. (See 1,303,836.)

1,419,137, J. A. Hewes, Men's neckwear, suit filed Aug. 29, 1923, D. C., D. Mass., Doc. E 1846, *J. A. Hewes et al.* v. *Enterprise Haberdashers, Inc.*

1,435,297, A. H. Heimbach, Incinerators, suit filed July 21, 1923, D. C., D. Minn., Doc. E 621, *A. H. Heimbach* v. *W. T. McKay (Sanitor Mfg. Co.).*

1,461,504, G. Tanzi, Macaroni dies, suit filed Aug. 27, 1923, D. C., E. D. N. Y., Doc. 1313, *G. Tanzi* v. *V. La Rosa & Sons.*

Des. 57,989, C. A. Mosgrove, Tumbler holder, suit filed Aug. 16, 1923, D. C., E. D. N. Y., Doc. 1310, *The Autoyre Co., Inc.*, v. *The Whyst Enamel Specialty Co., Inc.*

Des. 60,668, M. Hirshfield, Slippers, suit filed Aug. 11, 1923, D. C., E. D. N. Y., Doc. 1306, *Hirshfield & Lash, Inc.*, v. *H. Jacob & Sons, Inc.*

Re. 14,049, J. G. Tufford, Resilient heel, suit filed Jan. 5, 1920, D. C., N. D. Ohio (W. D.), Doc. 519, *Tee Pee Rubber Co.* v. *The I. T. S. Rubber Co.* Decree after mandate from U. S. circuit court of appeals. Bill dismissed. I. T. S. Rubber Co. declared lawful owner. Tee Pee Rubber Co. perpetually enjoined, June 18, 1923.

Changes in Classification.

(ORDER No. 2,836.)

U. S. PATENT OFFICE, *Washington, Sept. 7, 1923.*

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 137, Water Distribution (Division XXXIX), establish subclass—

Tanks—
Automatic—
163. Periodic discharge.

The patents contained in this subclass have been taken for the most part from class 4, Baths and Closets, subclass 5, Closet cisterns, hereinafter abolished.

In class 4, Baths and Closets (Division XLIII), change the title of the class to read *Class 4, Baths, Closets, Sinks, and Spittoons*, abolish the existing subclasses, and establish in lieu thereof the following subclasses and definitions:

4.—BATHS, CLOSETS, SINKS, AND SPITTOONS.
1. **Miscellaneous.**
2. **Closet bowl, tub, and basin.**
3. **Closet bowl and basin.**
4. **Tub and basin.**
5. **Tub and sink.**
6. **Bidets—**
7. Jet.
8. **Railway-train closets.**
9. **Closets—**
10. Water-closets—
11. Plural,
12. Combined tank and bowl—
13. Integral,
14. Siphon bowl—
15. Air exhauster for siphon,
16. Plunger bowl,
17. Valved bowl,
18. Tanks—
19. Normally empty—
20. Pressure tank—
21. Seat operated—
22. Siphon bowl,
23. With drainer.
24. Seat operated—
25. With drain,
26. Pressure tank—
27. Float-released outlet valve,
28. Float outlet valve,
29. Valve held open by flow,
30. Motor-controlled outlet valve,
31. Dashpot-controlled outlet valve,
32. Dumping tank,
33. Controlled by weight of liquid,
34. Plural flushers—
35. Compartment tank,
36. Outlet siphon,
37. Float outlet valve,
38. Dashpot outlet valve,
39. Compartment, alternate,
40. Compartment, in series,
41. Conjoined supply and outlet valve,
42. Outlet siphon—
43. Air bound,
44. Jet starter,
45. Float-valve-releasing starter,
46. Plunger starter,
47. Water-displacer starter,
48. Water-elevator starter,
49. Outlet-valve starter—
50. Bodily-movable siphon,
51. Seat operated,
52. Outlet valve—
53. Latched open, released by float—
54. Seat operated,
55. Latched open, released by weight,

4.—BATHS, CLOSETS, SINKS, AND SPITTOONS—Continued.
Closets—
Water-closets—
Tanks—
Outlet valve—
56. Float—
57. Overflow at side,
58. Overflow through valve,
59. Seat operated,
60. Overflow through valve—
61. Dashpot,
62. Overflow at side, dashpot,
63. Shifting weight,
64. Seat operated,
65. Held open by flow,
66. Rotary retarder,
67. Operator,
68. Structure and supports,
69. Siphon bowl—
70. With flush valve,
71. Extra trap or false trap,
72. Ventilated,
73. Siphon jet,
74. With check valve,
75. Overflow preventer,
76. Valved bowl—
77. Pump—
78. Portable closet,
79. Flush valve—
80. Portable closet,
81. Float controlled,
82. Seat operated,
83. Ventilated,
84. Pivoted valve—
85. Pan type,
86. Plunger bowl—
87. Flush valve—
88. Float controlled,
89. Washout bowl—
90. Pump,
91. Series,
92. Flush valve,
93. Pan bowl and trap—
94. Ventilated,
95. Trap,
96. Ventilated,
97. Bowl with side receptacle,
98. Combined bowl and seat,
99. Urinals—
100. Automatic flush tank—
101. Periodic flush,
102. Bowl—
103. Ventilated,
104. Vertical wall—
105. Ventilated,
106. Ventilated,
107. Pivoted,
108. Pedal-operated flush,
109. Disinfectants or screens,
110. Portable.
111. Dry closets—
112. Bedpans—
113. Cushioned,

4.—BATHS, CLOSETS, SINKS, AND SPITTOONS—Continued.
Closets—
Dry closets—
114. Automobile,
115. Chemical,
116. Field,
117. Plural—
118. Drier or burner,
119. With urinal—
120. Separate receiver,
121. Magazine—
122. Furniture,
123. Valved bowl,
124. Movable receiver,
125. Seat operated,
126. Cover operated,
127. In cover,
128. Valved bowl—
129. Ventilated,
130. Seat or cover operated,
131. Drier or burner,
132 Vault—
133. Ventilated,
134. Chair,
135. Inclosed receptacle—
136. Ventilated,
137. Vessel,
138. Receptacle—
139. Muffled for liquid,
140. Ventilated,
141. Vessels,
142. Flexible material,
143. Seat subclosure—
144. Seat or cover operated.
Bathing apparatus—
145. Shower baths—
146. Cabinet—
147. Pump,
148. With bathtub—
149. Curtain,
150. Rim discharge,
151. Elevated tank,
152. Cage spray—
153. Curtain,
154. Curtain—
155. Pump,
156. Pump,
157. Neck supported,
158. With scrubber,
159. Head washers and supports,
160. Vapor or hot-air baths—
161. With shower,
162. With bathtub,
163. Recumbent,
164. Erect, with head outside,
165. Body member,
166. Basins—
167. Washstand—
168. Pivoted,
169. Pivoted,
170. Supports,
171. Sea baths,
172. Tank baths,
173. Tubs—
174. Couch,

4.—BATHS, CLOSETS, SINKS, AND SPITTOONS—Continued.
Bathing apparatus—
Tube—
175. Cabinet—
176. Pivoted tub,
177. Flexible material,
178. Rocking or agitating,
179. Heater,
180. Gas injector,
181. Rim supply,
182. Foot bath,
183. Partition,
184. Body scrubbers,
185. Supports, mats, and seats,
186. Legs.
187. Sinks—
188. Pivoted,
189. Drainer,
190. Strainer.
191. Bath, basin, and receptacle fittings—
192. Hot and cold supply—
193. Compartment tub,
194. Outlet valve,
195. Supply and outlet—
196. Bottom supply,
197. Outlet valve and trap,
198. Outlet valve and overflow—
199. Valve operator in overflow,
200. Valve operator outside,
201. Overflow valve in receptacle,
202. Overflow valve outside,
203. Outlet valve, operator outside receptacle,
204. Outlet valve or plug, operator inside receptacle,
205. Outlet valve or plug, float operated,
206. Receptacle overflow, closure or trap,
207. Airbound trap,
208. Compartment-tub outlet.
209. Ventilation—
210. Railway car,
211. House plumbing—
212. Fittings,
213. Electric-motor pump,

4.—BATHS, CLOSETS, SINKS, AND SPITTOONS—Continued.
Ventilation—
214. Water-motor pump,
215. Water-jet pump,
216. Bowl structure or vent valve,
217. Seat structure,
218. Roof outlet,
219. Sewer—
220. Disinfecting,
221. Burner.
222. Disinfection—
223. Dispensing to bowl—
224. Combined with flusher,
225. Dispensing to flush pipe,
226. Chemical holder in flush pipe,
227. Dispensing to flush tank,
228. Chemical holder in flush tank,
229. Chemical holder in seat,
230. Chemical holder in cover,
231. Chemical holder suspended in bowl,
232. Chemical chamber formed in bowl,
233. Seat and cover treating.
234. Seats and covers—
235. Plural seats,
236. Hinges.
237. Seats—
238. Subclosure, seat operated,
239. Superposed,
240. Hinges,
241. Counterbalanced.
242. Covers for seats—
243. Destructible material—
244. Pad—
245. On seat,
246. On main cover,
247. Roll.
248. Buffers and dashpots.
249. Flush-valve operators—
250. Seat operated.
251. Seat and cover operators.
252. Closet-bowl supports, couplings, and drip catchers.
253. Closet-bowl closures.
254. Closet head, foot, and body rests.

4.—BATHS, CLOSETS, SINKS, AND SPITTOONS—Continued.
255. Obstruction removers and closures—
256. Water supply,
257. Closet bowl.
258. Spittoons—
259. Pocket,
260. Bar,
261. Disinfecting,
262. Flushing—
263. Dental—
264. Rotary member,
265. Hand pump,
266. Flush valve and outlet valve.
267. Covered—
268. Floor orifice—
269. Valved outlet,
270. Receptacle,
271. Hand operated,
272. Pedal operated—
273. Two-part cover,
274. Flexible material and holder,
275. Floor orifice—
276. Valved outlet,
277. Receptacle,
278. Agitator,
279. Reversible,
280. Floor controlled valve,
281. Gravity controlled valve,
282. Positively operated inlet valve,
283. Trapped liquid,
284. Gravity receptacle,
285. Flexible material and holder.
286. Strainers and stoppers—
287. Combined strainer, plug, or valve,
288. Combined strainer and pipe coupling,
289. Strainers in series,
290. Strainer, receptacle—
291. Depending,
292. Strainer,
293. Covers—
294. Disinfecting.
295. Plugs.

THOMAS E. ROBERTSON, *Commissioner.*

Changes in Classification.

(ORDER No. 2,837.)

U. S. PATENT OFFICE, *Washington, Sept. 8, 1923.*

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 287, Rod Joints or Couplings (Division XXXIII), change the title of subclass 60, Adjustable length, Right and left screw, to read—

Adjustable length—
Turnbuckle—
60. Right and left screw.

In class 85, Driven, Headed, and Screw-Threaded Fastenings (Division XIII), abolish the following subclass with its definition:

Nuts—
86.5. Turnbuckles.

The patents formerly contained in this subclass have been placed for the most part in class 287, Rod Joints or Couplings, especially in subclasses 60, Adjustable length, Turnbuckle, Right and left screw, and 61, Adjustable length, Screw and swivel.

THOMAS E. ROBERTSON,
Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, OCTOBER 2, 1923.

[VOL. 315. No. 1.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 139,971. (CLASS 15. OILS AND GREASES.) INTER-STATE OIL COMPANY, Kansas City, Kans. Filed Nov. 22, 1920.



Applicant disclaims the word "Oils" when used apart from the mark shown on the drawing.

Particular description of goods.—Lubricating Oils and Lubricating Greases.

Claims use since 1890.

Ser. No. 144,246. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) OXFORD-PRINT, Boston, Mass. Filed Mar. 2, 1921.

WHIRLYGO

Trade-mark consists of the word "Whirlygo."

Particular description of goods.—Wooden Structure Provided with Seats in the Nature of a Merry-Go-Round.

Claims use since Dec. 1, 1920.

Ser. No. 144,339. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE LIONEL CORPORATION, New York, N. Y. Filed Mar. 5, 1921.

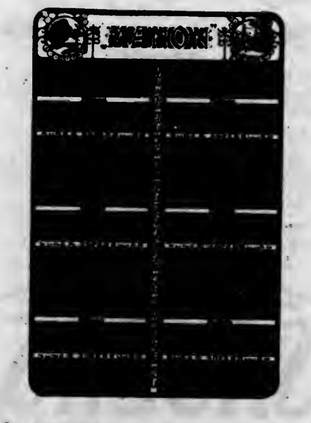
LIONEL STANDARD

No claim is made to the exclusive use of the word "Standard" apart from the mark shown on the drawing.

Particular description of goods.—Tracks for Toy Electrical Trains.

Claims use since about 1906.

Ser. No. 148,617. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE WILLIAM PRYM COMPANY, LIMITED, Stolberg, Germany. Filed June 3, 1921.



Particular description of goods.—Bone Stilettos, Hooks and Eyes, Corset Eyes, Double Eyes, Shoe Eyes, Snap Fasteners, Shoe Buckles Not Made of Precious Metals, Waistband Clasps, Waist and Corset Clasps; Snap Fasteners on Tape and Hooks and Eyes on Tape for Fastening Waists, Skirts, Plackets, Dress, and Other Articles of Clothing; Waist-Belt Clasps; Dress Holders, Such as Large Snap Fasteners Used for Supporting Articles of Clothing; Shoe Buttoners, Glove Buttoners, Thimbles, and Buttons Not Made of Precious Metals; Collar Supporters, Needles, Pins without Ornamentation and Not Made of Precious Metals and Ornamented Hairpins Not Made of Precious Metals.

Claims use since Mar. 9, 1914.

Ser. No. 150,170. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE U. S. MOP COMPANY, INC., Toledo, Ohio. Filed July 8, 1921.

San-a-dax

Particular description of goods.—Floor Mops, Hand Dusters, Floor Brushes, Wall Dusters.
Claims use since Oct. 1, 1920.

Ser. No. 150,588. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) MAURICE BLACKMAN, Philadelphia, Pa. Filed July 19, 1921.

Velvet

Particular description of goods.—Sirups and Nonalcoholic Maltless Beverages Composed of Sirups and Carbonated Water.
Claims use since Apr. 15, 1919.

Ser. No. 150,772. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) J. SIMON & CIE., Lyon and Paris, France. Filed July 21, 1921.

Dérouler les contrefaçons en exigeant la signature: Simon

DEPOT Chez les Parfumeurs DEPOT Chez les Parfumeurs

SAVON DE LA CRÈME SIMON

Ce Savon est très pur et possède à un certain degré toutes les qualités de la Crème Simon. Il est surtout hygiénique et adoucissant.

J. SIMON

103, Rue St Martin, 59 et 66, Rue de l'Université SIMON

FRANCE

No claim made to the wording herein except the words "Crème Simon" apart from the mark shown in the drawing.
Particular description of goods.—Toilet Soaps.
Claims use since 1876.

Ser. No. 153,787. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) N. SAUER MILLING COMPANY, Cherryvale, Kans. Filed Oct. 4, 1921.

SAUER'S BEST

Particular description of goods.—Wheat Flour.
Claims use since Mar. 1, 1903.

Ser. No. 156,480. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) DAVIES, ROSE & CO., LTD., Boston, Mass. Filed Dec. 9, 1921.

LIMONIA

Trade-mark "Limonia."
Particular description of goods.—Nonalcoholic, Maltless Flavoring for Making Beverages.
Claims use since 1904.

Ser. No. 157,466. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WHOLESALE DISTRIBUTORS CO., Chicago, Ill. Filed Jan. 3, 1922.

YORK FARMS
BRAND

The word "Brand" does not form a part of the registration sought apart from the mark shown in the drawing.
Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Milk, Canned Fish, Sour Pickles, Chowchow, Tomato Catchup, Cider Vinegar, Prepared Mustard, Spices, Cocoa, Coffee, Peanut Butter, Olives, Fruit Jellies, Fruit Jams, Sweet Chocolate, Rolled Oats, Cornstarch, Macaroni.
Claims use since Aug. 1, 1921.

Ser. No. 158,442. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) PATHÉ-CINÉMA, ANCIENS ÉTABLISSEMENTS PATHÉ FRÈRES, Paris, France. Filed Jan. 25, 1922.



Particular description of goods.—Cameras for Taking Cinematographic Pictures, Cinematographic Projecting Lanterns, Stereoscopes, Stationary Magic Lanterns, Eyepieces and Spare Parts for Photographic and Cinematographic Apparatus.
Claims use since Jan. 1, 1902.

Ser. No. 158,765. (CLASS 7. CORDAGE.) THE EDWIN H. FITLER CO., Philadelphia, Pa. Filed Feb. 2, 1922.



Particular description of goods.—Harvesting Twine and Binder Twine.
Claims use since 1897.

Ser. No. 158,912. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ALLINGHAM CANDY MANUFACTURING COMPANY, Colorado Springs, Colo. Filed Feb. 6, 1922.

KINKLES

Particular description of goods.—Confection Made from Toasted Puffed Wheat, Nuts, and Sugar.
Claims use since Nov. 18, 1921.

Ser. No. 159,341. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) BERNARD WIGDER, doing business as The Wigder Manufacturing Co., Newark, N. J. Filed Feb. 15, 1922.

CAPITOL

Particular description of goods.—Manicure Implements, Such as Nail Files and Tweezers.
Claims use since Jan. 18, 1922.

Ser. No. 159,580. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HANSELMAN CANDY COMPANY, Kalamazoo, Mich. Filed Feb. 20, 1922.

FROZEN JOY

Particular description of goods.—Ice Cream.
Claims use since Dec. 10, 1921.

Ser. No. 160,588. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LEONARD R. CARLEY, Watertown, Conn. Filed Mar. 13, 1922.

KARLODE

Particular description of goods.—Varnish, Stains, Ready-Mixed, Paste, or Dry Fillers and Paints.
Claims use since about Dec. 20, 1921.

Ser. No. 163,113. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ROCKWOOD MANUFACTURING COMPANY, Indianapolis, Ind. Filed Apr. 29, 1922. Under ten-year proviso.

FIBRE

Particular description of goods.—Fillers for Power-Transmission Pulleys.
Claims use since 1884.

Ser. No. 163,208. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ERNST ZOBEL COMPANY, INC., Brooklyn, N. Y. Filed May 1, 1922.

ASBESTOGUM

Particular description of goods.—Protective Composition in the Nature of a Paint for Roofs.
Claims use since February, 1921.

Ser. No. 164,270. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEE-MOON & COMPANY, Chicago, Ill. Filed May 22, 1922.

14 IN 1
BRAND

The word "Brand" does not form a part of the registration sought apart from the mark shown in the drawing.
Particular description of goods.—Canned Vegetables—Namely, Asparagus, Tomatoes, Sweet Potatoes, Pork and Beans, Baked Beans, Red Kidney Beans, Lima Beans, String Beans, Sifted Peas, Early June Peas, Sweet Corn, Small Beets, Hominy, Rhubarb, Sauerkraut, Spinach, Pumpkin, Tomato Purée, Mushrooms, Wax Beans, Succotash, Apple Sauce, Cepas, Pimientos; Preserved Vegetables; Canned Fruits—Namely, Sliced Peaches, Yellow Cling Peaches, Hawaiian Pineapple, Grated Hawaiian Pineapple, Egg Plums, Green Gage Plums, Bartlett Pears, Royal Ann Cherries, Red Pitted Cherries, Apricots, Blueberries, Loganberries, Gooseberries, Red Raspberries, Black Raspberries, Strawberries, Apples, and Olives; Preserved Fruits—Namely, Apple, Peach, Strawberry, Quince, Blackberry, Pineapple, Raspberry, Damson Plum, Blueberry, Apricots and Cherry; Bottled Fruit, Fruit Butters, Dried Fruits, Crushed Fruits, Fruit Jellies—Namely, Apple, Currant and Grape; Fruit Marmalades; Molasses—Namely, Orange, Black Strap, and New Orleans; Mustard, Tomato Catchup, Chili Sauce, Vinegar, Cottonseed Salad Oil, Salad Dressing, Chop-Suey Sauce; Table Sirups, Gelatin Jelly Powder, Relishes, Chowchow, Powdered Sugar; Cereals—Namely, Tapioca, Bran, Oatmeal, Rolled Oats, Rice; Graham Flour, Entire-Wheat Flour, Rye Flour; Buckwheat Flour, Waffle Flour, Pancake Flour, Prepared Cake Flour, Macaroni, Spaghetti, Vermicelli, Noodles, Spices, Allspice, Horse Radish; Oyster-Cocktail Sauce, Mayonnaise Dressing, Jelly Powders, Lard, Cookies.
Claims use since Jan. 30, 1922.

Ser. No. 164,457. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUPPLEE-WILLS-JONES MILK COMPANY, Philadelphia, Pa. Filed May 24, 1922.



No claim is made to the representation of the bottle or to the wording on the drawing apart from the mark shown.

Particular description of goods.—Raw Milk, Raw Cream, Pasteurized Milk, Pasteurized Cream, Certified Milk, and Buttermilk.

Claims use since 1919.

Ser. No. 164,760. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ICE POLES, INC., Boston, Mass. Filed June 1, 1922.



Particular description of goods.—Iced Confections.

Claims use since May 15, 1922.

Ser. No. 165,190. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE GONG BELL MANUFACTURING COMPANY, East Hampton, Conn. Filed June 8, 1922.

PLALINE

Particular description of goods.—Toys—Namely, Toy Telephones, Graphophones, Wagons, Carts, Toy Reins Having Bells; Rolling Toys Having Bells, Gongs, or Chimes; Toy Rattles, Wheelbarrows, and Wheeled Rolling Toys.

Claims use since Jan. 12, 1922.

Ser. No. 165,215. (CLASS 47. WINES.) SOCIETE VINICOLE DE CHAMPAGNE, Paris, France. Filed June 8, 1922. Under ten-year proviso.

MUMM

Particular description of goods.—Champagne Wine.

Claims use since Jan. 1, 1853.

Ser. No. 165,418. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE A. STONECYPHER, Tucson, Ariz. Filed June 12, 1922.



The words "One Quality—The Best 24 Oz." are disclaimed apart from the trade-mark shown in the drawing.

Particular description of goods.—Bread.

Claims use since Nov. 1, 1921.

Ser. No. 165,586. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. GODEL & SONS, Peoria, Ill. Filed June 16, 1922.



No claim is made to the words "Pure Brand Lard."

Particular description of goods.—Lard.

Claims use since Jan. 1, 1890.

Ser. No. 165,809. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WALTER P. POWERS, Chicago, Ill. Filed June 21, 1922.

Regal

Particular description of goods.—Beverages—Namely, Ginger Ale, Root Beer, Birch Beer, Sarsaparilla, Limeade, Lemon Soda, Orange Soda, Raspberry Soda, Cherry Soda, and Strawberry Soda.

Claims use since June, 1919.

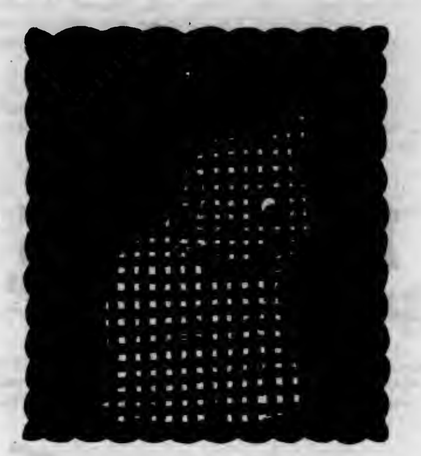
Ser. No. 166,149. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) RADIO-FILMS, INC., Hollywood, Calif. Filed June 27, 1922.

LISTENING IN

Particular description of goods.—Motion-Picture Films Issued Weekly.

Claims use since May 28, 1922.

Ser. No. 167,342. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) P. F. VOLLAND CO., Chicago, Ill. Filed July 24, 1922.



The representation of the goods to which the mark is applied is hereby disclaimed.

Particular description of goods.—Fabric Toy Dogs Adapted to be Stuffed.

Claims use since July 10, 1922.

Ser. No. 169,327. (CLASS 38. PRINTS AND PUBLICATIONS.) ROSS & COMPANY, New York, N. Y. Filed Sept. 11, 1922.



No claim made for the words "Modern Methods for Modern Business" apart from the mark shown in the drawing.

Particular description of goods.—Catalogues Published Annually.

Claims use since Feb. 1, 1921.

Ser. No. 170,360. (CLASS 39. CLOTHING.) L. BAMBERGER & CO., Newark, N. J. Filed Oct. 6, 1922.

Jean Oakley Dress

No rights to registration are claimed on the word "Dress" apart from the mark shown. The trade-mark is fanciful, is not the name of an individual, firm, corporation, or association.

Particular description of goods.—Women's Dresses.

Claims use since February, 1922.

Ser. No. 171,727. (CLASS 37. PAPER AND STATIONERY.) CHICAGO PAPER COMPANY, Chicago, Ill. Filed Nov. 8, 1922.

FINE ART

Particular description of goods.—Writing Paper, Printing Paper, Ledger Paper, Book Paper, and Bond Paper.

Claims use since Feb. 6, 1913.

Ser. No. 172,341. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JABURG BROS., New York, N. Y. Filed Nov. 21, 1922.

COCOLAIT

Particular description of goods.—Food Preparation for Making Cocoa Beverage.

Claims use since Sept. 10, 1920.

Ser. No. 172,589. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FINSILVER, STILL & MOSS, INC., New York, N. Y. Filed Nov. 27, 1922.



In the drawing the shading represents color, the words "Karavan Kamel Kloth" and "Made in England" being in red, the letters "F. M. S." in brown. The words "Kloth" and "Made in England" are disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Woolen Piece Goods.

Claims use since on or about Sept. 15, 1922.

Ser. No. 172,741. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOANNES BROS. CO., Green Bay, Wis. Filed Dec. 1, 1922.



Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Fish, Canned Meats, Dried

Fruits, Fruit Jellies, Fruit Preserves, Prepared Mustard, Green Olives, Pickles, Tomato Catchup, Molasses, Maple Sirup, Table Sirup, Vinegar, and Compound, Composed of Mustard Seed, Mustard Beans, Vinegar, Spices, Turmeric, and Salt.

Claims use since 1902 on canned fruits, canned vegetables, and dried fruits; since 1910 on canned fish; since July, 1922, on canned meats; since 1908 on coffee and green olives; since 1913 on tea, maple sirup, and table sirup; since 1914 on flavoring extracts, prepared mustard, spices, and pickles; since 1907 on fruit jellies and preserves; since 1906 on tomato catchup; since August, 1922, on molasses and vinegar.

Ser. No. 173,098. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. C. LYSLE MILLING COMPANY, Leavenworth, Kans. Filed Dec. 8, 1922.

Wyandotte



Particular description of goods.—Wheat Flour.
Claims use since 1914.

Ser. No. 173,147. (CLASS 45. BEVERAGES, NONALCOHOLIC.) SETHNESS COMPANY, Chicago, Ill. Filed Dec. 9, 1922.

Limonette

Particular description of goods.—Nonalcoholic, Maltless Sirup for Making a Citrous Beverage.
Claims use since July 1, 1919.

Ser. No. 173,354. (CLASS 39. CLOTHING.) GUITERMAN BROS., St. Paul, Minn. Filed Dec. 15, 1922.

TOWN & COUNTRY

Particular description of goods.—Clothing for Sport, Work, and Other Wear—Namely, the Following for Men and Boys: Mackinaw Coats, Ulsters, and Pants; Cloth, Leather-Lined, Cloth-Lined, and Leather Coats, Pants, Ulsters, Breeches, Vests, and Blouses; Sheep-Lined, Blanket-Lined, and Mackinaw-Lined Coats, Vests, and Ulsters; Knickerbockers; Hunting Coats, Vests, Jackets, Pants, and Breeches, and Golfers' and Trap-Shooters' Coats, Vests, Pants, and Breeches; and for Outer Clothing for Sport and Other Wear—Namely, the Following for Women and Girls: Mackinaw Coats and Ulsters; Cloth, Leather-Lined, Cloth-Lined, and Leather Coats, Ulsters, Breeches, Vests, Blouses, and Skirts; Sheep-Lined and Mackinaw-Lined Coats, Vests, and Ulsters; Knickerbockers; Hunting Coats, Vests, Jackets, and Breeches, and Golfers' and Trap-Shooters' Coats, Vests, and Breeches.
Claims use since September, 1911.

Ser. No. 174,129. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE DEFIANCE DAIRY PRODUCTS COMPANY, Defiance, Ohio. Filed Jan. 3, 1923.

DEFIANCE

Particular description of goods.—Evaporated Milk.
Claims use since Apr. 3, 1922.

Ser. No. 174,217. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JEANNETTE C. SHINN, doing business as J. C. Shinn Co., New York, N. Y. Filed Jan. 5, 1923.

SP'LIT

The trade-mark consists of the arbitrary word "Sp'lit."
Particular description of goods.—Educational Card Game.
Claims use since Aug. 5, 1919.

Ser. No. 174,279. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ASSOCIATED TEXTILE MANUFACTURERS, INC., New York, N. Y. Filed Jan. 8, 1923.

Asotex

Particular description of goods.—Manufactured Textile Fabrics of Silk, Wool, Cotton, and Mixtures of the Same.
Claims use since Oct. 2, 1922.

Ser. No. 174,849. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. G. NELSON & SON, Chicago, Ill. Filed Jan. 20, 1923.

BUTTER-CUP



Particular description of goods.—Thousand Island Dressing and Mayonnaise Dressing.
Claims use since July 1, 1922.

Ser. No. 174,900. (CLASS 38. PRINTS AND PUBLICATIONS.) ROBERT W. HERTZ, Indianapolis, Ind. Filed Jan. 22, 1923.

SOME GREAT AMERICAN SPORTS -

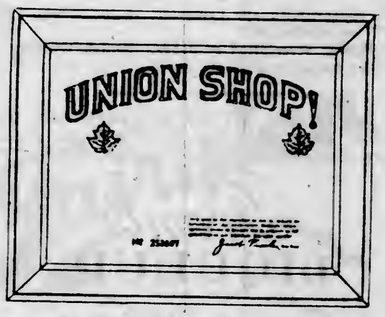
Particular description of goods.—Cartoons for Publication in Newspapers, Magazines, Pamphlets, and Book Forms.
Claims use since January, 1922.

Ser. No. 175,120. (CLASS 38. PRINTS AND PUBLICATIONS.) AMERICAN MANUFACTURERS FOREIGN CREDIT UNDERWRITERS, INC., New York, N. Y. Filed Jan. 26, 1923.

Safer Exporting

Particular description of goods.—Periodical Published Monthly.
Claims use since May 15, 1922.

Ser. No. 175,247. (CLASS 38. PRINTS AND PUBLICATIONS.) JOURNEYMEN BARBERS' INTERNATIONAL UNION OF AMERICA, Indianapolis, Ind. Filed Jan. 13, 1923.



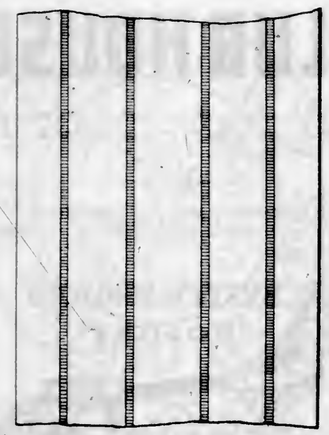
No claim made to the words "Union Shop" or to the words appearing in the lower left-hand corner of the mark apart from the mark as shown.
Particular description of goods.—Magazines Issued Monthly, Calendar Cards, Printed Books, Pamphlets, and Circulars.
Claims use since Jan. 1, 1901.

Ser. No. 175,450. (CLASS 39. CLOTHING.) HUGHES & BRADLEY CO., Philadelphia, Pa. Filed Feb. 2, 1923.

Rosemary
UNDERGARMENTS

No claim is made to the word "Undergarments" apart from the mark shown on the drawing.
Particular description of goods.—Woven Silk Undergarments—Namely, Vests, Step-Ins, Bloomers, Combination Step-Ins, Union Suits, Chemises, Slips, and Kimonos and Petticoats.
Claims use since Dec. 6, 1922.

Ser. No. 175,532. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TINGUE, BROWN & CO., New York, N. Y. Filed Feb. 3, 1923.



No claim is made for the representation of the goods as a part of the mark. The mark consists of four longitudinally-extending interwoven colored strands, two of said colored strands extending adjacent the edges of the canvas and the other two being spaced intermediate thereof, the spaces between the lines being substantially equal. The color of said strands is blue.
Particular description of goods.—Woven Cotton Feed Ribbons for Laundry Machines.
Claims use since Jan. 8, 1913.

Ser. No. 175,552. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE GUNN FURNITURE COMPANY, Grand Rapids, Mich. Filed Feb. 5, 1923.

"LINO"

Particular description of goods.—Counters, Cafeteria Tables, Office Tables, Tables for Household Use, Dressers, Typewriter Tables and Desks; Stands for General Use in Stores, Hotels, Houses, Etc.; and Tops Made Chiefly of Wood Made and Sold Separately for Use in Making Desks, Counters, Tables, Dressers, and Stands.
Claims use since on or about June 1, 1920.

Ser. No. 175,623. (CLASS 32. FURNITURE AND UPHOLSTERY.) NICHOLS ELECTRIC FURNITURE CO., Bennington, Vt. Filed Feb. 6, 1923.

LADY MAID

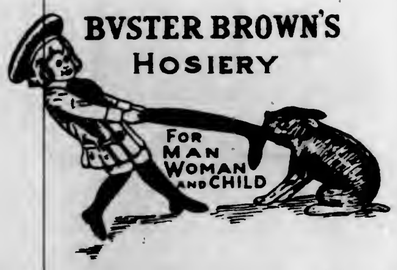
Particular description of goods.—Electrically-Equipped Serving Table.
Claims use since Apr. 1, 1922.

Ser. No. 175,724. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAKELAND HIGHLANDS CITRUS GROWERS ASSN., Haskell, Fla. Filed Feb. 8, 1923.

CLUB HOUSE

Trade-mark consists of the words "Club House."
Particular description of goods.—Citrous Fruits.
Claims use since Jan. 1, 1921.

Ser. No. 175,971. (CLASS 39. CLOTHING.) UNITED HOSIERY MILLS CORPORATION, Chattanooga, Tenn. Filed Feb. 12, 1923.



No claim made to the exclusive use of the words "Hosiery for Man, Woman and Child" and the representation of the stocking apart from the mark as shown in the drawing.
Particular description of goods.—Hosiery.
Claims use since on or about Apr. 1, 1904.

Ser. No. 176,175. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) GLENCO PRODUCTS COMPANY, Quincy, Ill. Filed Feb. 17, 1923.

GLENCO
DUSTAWAY
MAKES A BROOM A MOP

The words "Makes a Broom a Mop" do not form a part of the mark sought to be registered apart from the mark shown in the drawing.
Particular description of goods.—Mops.
Claims use since Oct. 10, 1922.

Ser. No. 176,826. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GREASALT PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 2, 1923.

GREASALT

Particular description of goods.—Soaps and Industrial Cleaning Compounds.
Claims use since Apr. 1, 1920.

Ser. No. 176,844. (CLASS 37. PAPER AND STATIONERY.) MCLAURIN-JONES CO., Brookfield, Mass. Filed Mar. 2, 1923.

CYGNET

The trade-mark consists of the word "Cygnet."
Particular description of goods.—Conted Book Paper.
Claims use since about Dec. 1, 1922.

Ser. No. 177,221. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) WM. GRANT & SONS, LTD., Dufftown, Scotland. Filed Mar. 10, 1923.

Grant's
STAND FAST
BLEND
Scotch Whisky.
BOTTLED & GUARANTEED BY
William Grant & Sons Limited
DISTILLERS
THE GLENFIDDICH AND BALVENIE DISTILLERY DUFFTOWN SCOTLAND

All matter with the exception of the words "Stand Fast" are disclaimed.
Particular description of goods.—Scotch Whisky.
Claims use since June 22, 1903.

Ser. No. 177,222. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) WM. GRANT & SONS, LTD., Dufftown, Scotland. Filed Mar. 10, 1923.

Grant's
LIQUEUR
Scotch Whisky.
BOTTLED & GUARANTEED BY
TRADE MARK
William Grant & Sons Limited
DISTILLERS
THE GLENFIDDICH AND BALVENIE DUFFTOWN NB

All printed words appearing on the drawing are disclaimed.
Particular description of goods.—Scotch Whisky.
Claims use since Aug. 5, 1903.

Ser. No. 177,337. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VITA MINERAL PRODUCTS COMPANY, Peoria, Ill. Filed Mar. 12, 1923.

Cod-o-mineral

The word "Mineral" is hereby disclaimed apart from the other features of the mark.
Particular description of goods.—Mineral Stock Food.
Claims use since Jan. 1, 1923.

Ser. No. 177,452. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE QUAKER OATS COMPANY, Chicago, Ill. Filed Mar. 14, 1923.



Particular description of goods.—Wheat Flour.
Claims use since Sept. 2, 1921.

Ser. No. 177,740. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HIGHLAND MILLING COMPANY, Highland, Ill. Filed Mar. 20, 1923.

Fairylan

Particular description of goods.—Wheat Flour.
Claims use since Aug. 10, 1920.

Ser. No. 177,966. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARTHUR G. FENTON, doing business as The Fenton Wholesale Co., Rochester, N. Y. Filed Mar. 24, 1923.

FINGER PRINT



Particular description of goods.—Flavoring Extracts for Food Purposes, Spices, Celery Seed, Mustard Seed, Caraway Seed, Poppy Seed, Anise Seed, Herbs, Cocoa, Cocoanut in a Natural State, Coffee, and Coloring Material for Cakes or Candies and Other Foods.
Claims use since Nov. 20, 1915.

Ser. No. 177,969. (CLASS 17. TOBACCO PRODUCTS.) HAVANA CIGAR AND TOBACCO FACTORIES, LTD., New York, N. Y. Filed Mar. 24, 1923.



No claim is made to the exclusive use of the words "Superior" and "Habana" apart from the mark as shown.
Particular description of goods.—Cigars.
Claims use since 1885.

Ser. No. 177,970. (CLASS 17. TOBACCO PRODUCTS.) HAVANA CIGAR AND TOBACCO FACTORIES, LTD., New York, N. Y. Filed Mar. 24, 1923.



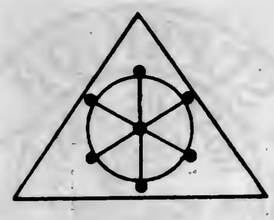
No claim is made to the exclusive use of the word "Habana" apart from the mark as shown.
Particular description of goods.—Cigars.
Claims use since 1873.

Ser. No. 178,006. (CLASS 39. CLOTHING.) SOLOMON MFG. CO., St. Louis, Mo. Filed Mar. 24, 1923.

TOUR-ETTE

Particular description of goods.—Sport and Outing Dresses and Suits for Children, Girls, Misses, and Women.
Claims use since September, 1922.

Ser. No. 178,183. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GEBR. NOELLE, Lüdenscheid, Germany. Filed Mar. 28, 1923.



Particular description of goods.—Knives, Forks, and Spoons of Aluminum.
Claims use since 1913.

Ser. No. 178,253. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE JETT & WOOD MERCANTILE COMPANY, Wichita, Kans. Filed Mar. 29, 1923.

HARVEST HOME

Particular description of goods.—Canned Fruits, Canned Berries, Canned Vegetables, Spices, Food-Flavoring Extracts, Table Sirups, Ice Cream Powder, Cornstarch for Food Purposes, Tea, and Coffee.
Claims use since 1898.

Ser. No. 178,331. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JOSEPH COHEN, doing business as The Princeton Club Co., Trenton, N. J. Filed Mar. 30, 1923.



The following matter is disclaimed apart from the mark shown on the drawing: "Trenton, N. J." and "Contents 15½ oz."
Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Mar. 1, 1922.

Ser. No. 178,347. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) C. EDWARD MAY, doing business as Crown Bottling Works, Baltimore, Md. Filed Mar. 30, 1923.

MAY COLA

The word "Cola" is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink.
Claims use since Apr. 1, 1919.

Ser. No. 178,362. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMUEL ROSENBERG, doing business as Phenix Packing Co., New York, N. Y. Filed Mar. 30, 1923.



The words "Genuine," "Russian," and "Caviar" are disclaimed apart from the mark as shown. The trademark is printed in gilt letters upon a green field and bordered by a red band having increasing scroll elements.
Particular description of goods.—Caviar.
Claims use since 1919.

Ser. No. 178,593. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CORN PRODUCTS REFINING COMPANY, New York, N. Y. Filed Apr. 5, 1923.



The color orange shown on the label is claimed as a feature of the mark in association with the other features of the mark, all of the wording, with the exception of the words "Karo" and "Corn Products Refining Co.," being disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Sirup for Food Purposes.
Claims use since October, 1921.

Ser. No. 178,594. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CORN PRODUCTS REFINING COMPANY, New York, N. Y. Filed Apr. 5, 1923.



The color blue shown on the label is claimed as a feature of the mark in association with the other features of the mark, all of the wording with the exception of the words "Karo" and "Corn Products Refining Co.," being disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Sirup for Food Purposes.
Claims use since July, 1902.

Ser. No. 178,595. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CORN PRODUCTS REFINING COMPANY, New York, N. Y. Filed Apr. 5, 1923.



The color red, shown on the label, being claimed as a feature of the mark in association with the other features of the mark, all of the wording, with the exception of the words "Karo" and "Corn Products Refining Co.," being disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Sirup for Food Purposes.
Claims use since July, 1912.

Ser. No. 178,596. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CORN PRODUCTS REFINING COMPANY, New York, N. Y. Filed Apr. 5, 1923.



The colors green and yellow, shown on the label, are claimed as features in association with the other features of the mark, all of the wording, with the exception of the words "Karo" and "Corn Products Refining Co.," being disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Sirup for Food Purposes.
Claims use since February, 1922.

Ser. No. 178,709. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BLANCHE M. BURNETT, Highland Park, Mich. Filed Apr. 7, 1923.



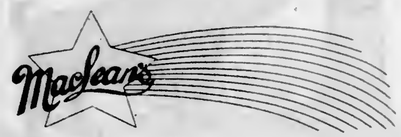
Particular description of goods.—Toy Animal Figures.
Claims use since Dec. 15, 1922.

Ser. No. 178,720. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE GOOD-GRAPE COMPANY, Chattanooga, Tenn. Filed Apr. 7, 1923.



Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages and Compounds for Making the Same.
Claims use since January, 1922.

Ser. No. 178,756. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MACLEAN DRUG COMPANY, Chicago, Ill. Filed Apr. 7, 1923.



Particular description of goods.—Pocketknives, Kitchen Knives, Shears, Scissors, Small Tweezers in the Nature of Tools, Razor Blades, Razors, Razor-Blade Sharpeners.
Claims use since November, 1918.

Ser. No. 178,829. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE DONLEY BROTHERS COMPANY, Cleveland, Ohio. Filed Apr. 9, 1923.

DONLEY DEVICES

The trade-mark consists of the word "Donley" above the word "Devices" in plain lettering, a single and relatively large "D" serving as the initial letter of both words, and generally arranged as shown in the accompanying specimens. No claim is made for the word "Devices" apart from the association shown. No common-law rights, however, being waived.

Particular description of goods.—Manufactured Articles—viz. Drain-Pipe Traps for Refrigerators, Bathtubs, and the Like; Sewer-Pipe Strainers, Slop Sinks, Concrete Inserts; Joist Anchors, Wall Plugs for Holding Nails in Masonry; Rings and Covers for Coal Holes, Handholes, and Manholes; and Clothesline Posts.

Claims use since Nov. 29, 1919.

Ser. No. 179,171. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WERNER CHARLES TAUCH, doing business as Popular Products Company, San Antonio, Tex. Filed Apr. 14, 1923.

SEMINOLE

Sun Dance

Wonder-Lust

Particular description of goods.—Powdered Polish for Automobile Bodies and Other Painted and Varnished Surfaces.

Claims use since Feb. 1, 1923.

Ser. No. 179,268. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) HANLON & GOODMAN CO., New York, N. Y. Filed Apr. 17, 1923. Under ten-year proviso.

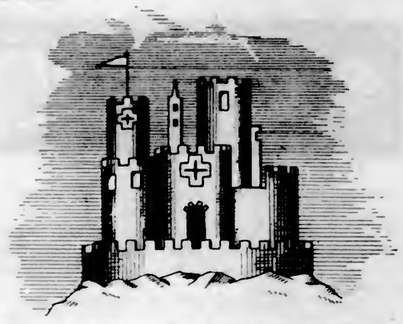


TRADE MARK

Particular description of goods.—Paint, Varnish, and Calcimine Brushes.

Claims use since 1877.

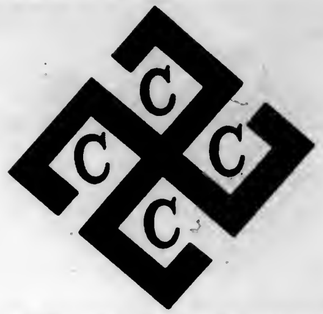
Ser. No. 179,316. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NOTTINGHAM LACE WORKS, Jersey City, N. J., and New York, N. Y. Filed Apr. 18, 1923.



Particular description of goods.—Laces, Handkerchiefs, Embroideries, and Draperies and Cotton, Silk, Silk and Cotton, and Artificial-Silk Fabrics in the Piece.

Claims use since Jan. 1, 1903.

Ser. No. 179,359. (CLASS 15. OILS AND GREASES.) COMMONWEALTH COLOR & CHEMICAL CO., Brooklyn, N. Y. Filed Apr. 19, 1923.



Particular description of goods.—Fuel, Lighting, Heating, and Lubricating Oils and Greases, Nonvolatile Oil Compounds for Mixture with Oil to Produce Lubricating and Cutting Machine Oils.

Claims use since July 1, 1911.

Ser. No. 179,361. (CLASS 5. ADHESIVES.) COMMONWEALTH COLOR & CHEMICAL CO., Brooklyn, N. Y. Filed Apr. 19, 1923.



Particular description of goods.—Adhesive Gums and Sizings.

Claims use since July 1, 1911.

Ser. No. 179,422. (CLASS 39. CLOTHING.) THE NOTTAGE COMPANY, Los Angeles, Calif. Filed Apr. 20, 1923.

Enco

Particular description of goods.—Men's and Boys' Work Shirts and Children's Blouses and Play Suits.

Claims use since Dec. 20, 1921.

Ser. No. 179,432. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE STANLEY WORKS, New Britain, Conn. Filed Apr. 20, 1923.

DEFIANCE

Particular description of goods.—Vises, Bit Braces, Breast Drills, Planes and Parts Thereof, Scrapers for Rubbing Down or Rubbing Off a Surface, Toothing Cutters, Spokeshaves, Nail Sets, Cornering Tools, Blind-Nail Tools, Hammers, Mallets, Screw Drivers, Ice Picks, Awls, Awl Hafts; Hollow-Handle Tool Sets Embracing Gimlet, File, Saw, Gouge, Chisel, Reamer, Brad Awl, Scratch Awl, Screw Driver, Tack Puller, and Belt Awl; Punches, Miter Boxes, Shoot Boards, Saw Sets, Doweling Jigs, Dowel and Rod Turning Machines, Grinding Fixtures, Beaders, Bench Dogs, Bit-Brace Tools, Bit Holders, Sledges, Wedges; Drills—Namely, an Instrument for Cutting Holes; Chisels, Mauls, Casing Rippers, Anvil Tools, Drift Pins, Rivet Sets, Hoop Sets, Hoop Drivers, Pritchels, Rail Forks, Tongs, Tool Bars, Picks, Wrenches; Stoneworkers' Tools—viz, Pitching Tools, Line Tracers, Points, and Markers; Flue Beaders, Drill-Sharpening Tools, Calking Tools, Pliers, Files, Saws, Putty Knives, and Axes.

Claims use since Mar. 15, 1923.

Ser. No. 179,579. (CLASS 35. BELTING, HOSE, MACHINERY PACKING AND NONMETALLIC TIRES.) AMERICAN AUTO ACCESSORIES STORES, Wilkes-Barre, Pa. Filed Apr. 24, 1923.

DUPLEX

Particular description of goods.—Rubber and Fabric Tires and Tubes for Vehicles.

Claims use since on or about Jan. 1, 1922.

Ser. No. 179,611. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LINNENFABRIEKEN E. J. F. VAN DISSEL & ZONEN, Eindhoven, Netherlands. Filed Apr. 24, 1923.



Particular description of goods.—Linen, Half-Linen, and Cotton Fabrics.

Claims use since Oct. 7, 1915.

Ser. No. 179,834. (CLASS 39. CLOTHING.) STETSON SHIRT CO. INC., New York, N. Y. Filed Apr. 27, 1923.

Wearplus

Particular description of goods.—Men's Dress and Negligee Shirts.

Claims use since Mar. 1, 1923.

Ser. No. 179,963. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) T. R. SAVAGE COMPANY, Bangor, Me. Filed Apr. 30, 1923.

SA-CO

Particular description of goods.—Tea, Coffee, Canned Peas, Canned Corn, Canned Tomatoes, Canned String Beans, Baked Beans, Canned Blueberries, Canned Salmon, Rolled Oats, Macaroni, and Canned Sardines.

Claims use since Sept. 1, 1921, on tea and coffee; since Mar. 7, 1923, on canned peas, canned corn, canned tomatoes, string beans, baked beans, canned blueberries, canned salmon, rolled oats, macaroni, and canned sardines.

Ser. No. 179,999. (CLASS 37. PAPER AND STATIONERY.) ROBERT FLETCHER & SON, LIMITED, Stoneclough, near Manchester, England. Filed May 1, 1923.



Applicant disclaims any right to the exclusive use of the words "Made in England."

Particular description of goods.—Uncut Cigarette Paper.

Claims use since on or about May 6, 1923.

Ser. No. 180,117. (CLASS 39. CLOTHING.) CHARLES FRANKLIN, Boston, Mass. Filed May 3, 1923.

Charles the Great COAT TRADE MARK

We disclaim the words "Coat" and "Trade Mark" apart from the mark shown on the drawing.

Particular description of goods.—Sweaters and Bathing Suits.

Claims use since Jan. 1, 1918.

Ser. No. 180,120. (CLASS 39. CLOTHING.) HERCULES KNITTING CO., Milwaukee, Wis. Filed May 3, 1923.

HK

Particular description of goods.—Sweater Coats, Knitted Caps, Woolen Hosiery, Shawls, Scarfs, Jacquettes, Hug-Me-Tights; Vests—Ladies' and Men's; Infants' Jackets, Panties, Hoods, and Knitted Blouses.
Claims use since Feb. 1, 1914.

Ser. No. 180,174. (CLASS 39. CLOTHING.) GEBS BOOT SHOP, Pittsburgh, Pa. Filed May 4, 1923.

GEBS
Gives Everybody Best for Five Service
Best for the
BOOT SHOP

No claim made for the words "Best for Five" or "Boot Shop," "Gives Everybody Service" apart from the other features of the mark.
Particular description of goods.—Men's, Women's, and Children's Boots, Shoes, and Slippers Made of Leather, Rubber, or Fabric and Hosiery.
Claims use since Mar. 15, 1923.

Ser. No. 180,238. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE P. & M. COMPANY, Chicago, Ill. Filed May 5, 1923.

FAIR

Particular description of goods.—Rail Anchors or Anti-creepers.
Claims use since Apr. 26, 1922.

Ser. No. 180,246. (CLASS 47. WINES.) SOC. AN. FSCO. CINZANO & CIA., Turin, Italy. Filed May 5, 1923. Under ten-year proviso.

CINZANO

Particular description of goods.—Sparkling Wines, Red Wines, Quinine Wines, Dry White Wine.
Claims use since December, 1890.

Ser. No. 180,247. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) SOC. AN. FSCO. CINZANO & CIA., Turin, Italy. Filed May 5, 1923.

CINZANO

Particular description of goods.—Absinthe, Brandy, Gin, Whisky, Rum, Vermuth, and Quinine Cordial.
Claims use since December, 1890.

Ser. No. 180,338. (CLASS 38. PRINTS AND PUBLICATIONS.) METZLER & COMPANY, INCORPORATED, New York, N. Y. Filed May 8, 1923.

TRUE TESTED

Particular description of goods.—Negotiable Bonds and Registrable Bonds.
Claims use since May 1, 1923.

Ser. No. 180,514. (CLASS 38. PRINTS AND PUBLICATIONS.) VICTORIA MURDOCK ESTATE, doing business as The Wichita Eagle, Wichita, Kans. Filed May 11, 1923.

The Wichita Daily Eagle.

Particular description of goods.—Daily Newspaper.
Claims use since May 20, 1884.

Ser. No. 180,536. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PEARL P. GOERDELER, Brooklyn, N. Y. Filed May 12, 1923.

BUNNY
HUGTITE

No claim is made to the word "Bunny" aside from the mark shown.
Particular description of goods.—Toys—Namely, Dolls.
Claims use since May 7, 1923.

Ser. No. 180,614. (CLASS 38. PRINTS AND PUBLICATIONS.) BENJAMIN MINDLIN, Jamaica, N. Y. Filed May 14, 1923.

DRUGGIST'S
"ECONOMETER"

Particular description of goods.—Publication Issued Monthly Advertising the Products of the Wholesale Druggist Trade.
Claims use since February, 1923.

Ser. No. 180,654. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COLLINS & AIKMAN CO., Philadelphia, Pa. Filed May 15, 1923.

Particular description of goods.—Velvet, Velour, Plush, and Other Pile-Fabric Piece Goods and Cut Lengths.
Claims use since Apr. 19, 1923.

Ser. No. 180,760. (CLASS 39. CLOTHING.) H. O. GRASSMUCK CO., Los Angeles, Calif. Filed May 17, 1923.

HILL-AN-DALE

Particular description of goods.—Hosiery: Men's, Women's, and Children's Underwear.
Claims use since Feb. 15, 1923.

Ser. No. 180,833. (CLASS 39. CLOTHING.) CHARLES F. BERG, Portland, Oreg. Filed May 19, 1923.

Bergsylk-MAID TUWARE

Particular description of goods.—Hosiery.
Claims use since Oct. 1, 1920.

Ser. No. 180,834. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) GUSTAVE BERMAN, New York, N. Y. Filed May 19, 1923.

SunnyBrella

Particular description of goods.—Umbrellas and Parasols.
Claims use since on or about May 14, 1923.

Ser. No. 180,844. (CLASS 39. CLOTHING.) MILTON G. COOPER DRY GOODS CO., Los Angeles, Calif. Filed May 19, 1923.

SASSY JANE

Particular description of goods.—Women's Dresses and Aprons, Children's Dresses and Aprons; Ladies' and Children's Hosiery, Sweaters, and Uniforms; and Women's Knit and Silk Underwear.
Claims use since Mar. 20, 1916.

Ser. No. 181,069. (CLASS 38. PRINTS AND PUBLICATIONS.) FRANCIS J. GAUDÉ, Port Allen, La. Filed May 24, 1923.

WHIFF AND POOF

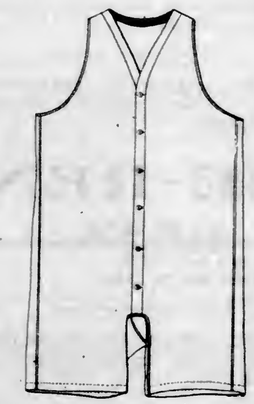
Particular description of goods.—Series of Cartoons.
Claims use since May 1, 1923.

Ser. No. 181,085. (CLASS 38. PRINTS AND PUBLICATIONS.) NATIONAL SCHOOL SUPPLY ASSOCIATION, Chicago, Ill. Filed May 24, 1923.



The words "Service to the School Children of America" are disclaimed apart from the mark shown.
Particular description of goods.—Magazine Published Monthly.
Claims use since January, 1919.

Ser. No. 181,097. (CLASS 39. CLOTHING.) CLAIR G. WRIGHT, Kansas City, Mo. Filed May 24, 1923.



The color lining in the band represents blue. No claim is made to the representation of the union suit apart from the mark shown on the drawing.
Particular description of goods.—Men's Textile-Fabric Underwear Union Suit.
Claims use since May 10, 1923.

Ser. No. 181,101. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y. Filed May 23, 1923.

Ever-Ready

Particular description of goods.—Razors, Razor Blades, Safety Razors, and Safety-Razor Blades.
Claims use since about 1904.

Ser. No. 181,168. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BLUM & BERGERON, Houma, La. Filed May 26, 1923.

LOBSTER

Particular description of goods.—Dried Shrimp.
Claims use since 1912.

Ser. No. 181,204. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MCCONNELL MANUFACTURING COMPANY, Newark, N. J. Filed May 26, 1923.

Snap

Particular description of goods.—Hair Wavers.
Claims use since May 18, 1923.

Ser. No. 181,210. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PABST CORPORATION, Milwaukee, Wis. Filed May 26, 1923.

CHE-RENE

Particular description of goods.—Nonalcoholic, Maltless Beverage Sold as a Soft Drink.
Claims use since May 14, 1923.

Ser. No. 181,211. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PABST CORPORATION, Milwaukee, Wis. Filed May 26, 1923.

GRAP-DI-VINE

Particular description of goods.—Nonalcoholic, Maltless Beverage Sold as a Soft Drink.
Claims use since May 14, 1923.

Ser. No. 181,215. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PABST CORPORATION, Milwaukee, Wis. Filed May 26, 1923.



The drawing is lined for the color red.
Particular description of goods.—Table Water and Root Beer and Nonalcoholic, Maltless Fruit-Flavored Soft Drinks.
Claims use since May 19, 1917.

Ser. No. 181,267. (CLASS 39. CLOTHING.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed May 28, 1923.

Portia

FIELD QUALITY

Particular description of goods.—Women's Muslin Underwear.
Claims use since Jan. 26, 1923.

Ser. No. 181,338. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GEORGE ALEX. CERNY, doing business as Autol Scientific Laboratories, Chicago, Ill. Filed May 29, 1923.



For the purposes of trade-mark registration the words "Guaranteed," Very Best," "Once Tried Ever Used," and "Chicago, U. S. A." are disclaimed apart from the trade-mark shown in the drawing, it being understood, however, that no common-law rights are waived thereby.
Particular description of goods.—Body Polish, Top Dressing in the Nature of a Paint, and Paint Enamel.
Claims use since Apr. 1, 1923.

Ser. No. 181,376. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CANVAS PRODUCTS COMPANY, St. Louis, Mo. Filed May 31, 1923.

Nox-All

The trade-mark consists of the word "Nox-All."
Particular description of goods.—Grass Catchers.
Claims use since 1900.

Ser. No. 181,390. (CLASS 38. PRINTS AND PUBLICATIONS.) GARRED & KRAUSE DRUG CO., Walla Walla, Wash. Filed May 31, 1923.



The words "Photo Finish" are hereby disclaimed apart from the mark as shown.
Particular description of goods.—Photographs.
Claims use since July, 1921.

Ser. No. 181,391. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) RALPH W. GRAUERT, New York, N. Y. Filed May 31, 1923.

Oeser-Folie

Particular description of goods.—Gold and Bronze Leaf.
Claims use since Mar. 2, 1901.

Ser. No. 181,415. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SCHWARZENBACH HUBER COMPANY, West Hoboken, N. J. Filed May 31, 1923.

SAC-A-SAN

Particular description of goods.—Draperies of All Kinds of Silk, Cotton, Artificial Silk, and Combinations of the Foregoing.
Claims use since May 11, 1921.

Ser. No. 181,443. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) WILLIAM GRAF, doing business as Southwark Beverage & Products Co., Philadelphia, Pa. Filed June 1, 1923.

ELITE

Particular description of goods.—Malt Sirups for Beverage Purposes.
Claims use since May 17, 1923.

Ser. No. 181,470. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) ARCH NARROW FABRIC COMPANY, Auburn, R. I. Filed June 2, 1923.

Educator

Particular description of goods.—Braid, Braided Tapes, Elastic Laces, Shoe Laces, Elastic Webb, and Elastic Braids.
Claims use since Apr. 5, 1923.

Ser. No. 181,475. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CONSOLVO MANUFACTURING CO., INC., South Norfolk, Va. Filed June 2, 1923.



Particular description of goods.—Paint and Varnish Removers.
Claims use since Mar. 17, 1923.

Ser. No. 181,592. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) DETROIT DENTAL MANUFACTURING COMPANY, Detroit, Mich. Filed June 6, 1923. Under section 9 of the act of Mar. 19, 1920.

KERR

Particular description of goods.—Dental Tools, Instruments, and Supplies—viz, Pulp-Canal Instruments, Mouth Mirrors, Cone-Socket and Plain-Stem Handles, Spatulas, Tracing Sticks, Base Plates, Impression Trays, Bridge Trays, Dental Polishes, Carving Compounds, Investment Compounds, Plaster of Paris for Impressions and Models, Annealers, Bunsen Burners, Blow Pipes, Articulators, Engine Drills, Broaches, Broach Reamers, Broach Holders, Soldering Tweezers, Impression Compounds, Dental Shears, Measurement Wires, Instrument Cases, Sterilizers, Burrs and Absorbent Pellets, Wafers, Excavators, Polishing Sticks, Filler Solutions, Canal Reamers, Canal Files, Spreaders, Pluggers, and Probes.
Claims use since 1910.

Ser. No. 181,640. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EMIL KAHN, doing business as E. Kahn & Company, Chicago, Ill. Filed June 7, 1923.

Kahnspotato

Particular description of goods.—Potatoes in Natural State.
Claims use since March, 1918.

Ser. No. 181,672. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CANTRELL & COCHRANE, LIMITED, Dublin, Ireland. Filed June 8, 1923.

C&C

Trade-mark consists of the letters "C" and "C" with the figure "&" between them.
Particular description of goods.—Nonalcoholic, Maltless Beverages Sold as Soft Drinks.
Claims use since about 1868.

Ser. No. 181,687. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FLAMINGO SUGAR MILLS, INC., Philadelphia, Pa. Filed June 8, 1923.

FLAMINGO

Particular description of goods.—Sugar.
Claims use since Mar. 27, 1923.

Ser. No. 181,692. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) LANDIS & GYR A.-G., Zug, Switzerland. Filed June 8, 1923.

MAXIGRAM

Particular description of goods.—Electrical Recording Measuring Instruments.
Claims use since November, 1922.

Ser. No. 181,693. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) LANDIS & GYR A.-G., Zug, Switzerland. Filed June 8, 1923.

MAXIGRAPH

Particular description of goods.—Electrical Maximum Recording Measuring Instruments.
Claims use since November, 1922.

Ser. No. 181,714. (CLASS 2. RECEPTACLES.) THE AMERICAN FORK & HOE COMPANY, Cleveland, Ohio. Filed June 9, 1923.

Reel Eezy

Particular description of goods.—Reels for Hose and the Like.
Claims use since Jan. 1, 1923.

Ser. No. 181,726. (CLASS 38. PRINTS AND PUBLICATIONS.) THE BRAGDON, LORD & NAGLE CO., New York, N. Y. Filed June 9, 1923.

Textile World

Trade-mark "Textile World."
Particular description of goods.—Weekly Publication.
Claims use since Jan. 1, 1921.

Ser. No. 181,749. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. S. IVINS' SON, INC., Philadelphia, Pa. Filed June 9, 1923.



Particular description of goods.—Cookies, Cakes, and Crackers.
Claims use since Jan. 1, 1921.

Ser. No. 181,779. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RUGBY CREAMERY, Rugby, N. Dak. Filed June 9, 1923.

Dakota Gold

Particular description of goods.—Butter.
Claims use since Feb. 18, 1923.

Ser. No. 181,829. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) W. T. GRANT COMPANY, New York, N. Y. Filed June 11, 1923.

"GRANCO"

Particular description of goods.—Safety Pins.
Claims use since May 14, 1923.

Ser. No. 181,856. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) NORTHWESTERN BAKERS & CONFECTIONERS CO., Minneapolis, Minn. Filed June 11, 1923. Under ten-year proviso.

Bestyet

Particular description of goods.—Nonalcoholic, Maltless Fruit and Root-Beer Sirups and Fruit and Phosphatic Acids and Coloring Extracts and Flavorings, All for Beverage Purposes.
Claims use since about Oct. 1, 1893.

Ser. No. 181,862. (CLASS 39. CLOTHING.) PENNSYLVANIA TEXTILE MILLS, INC., Glen Riddle, Pa., and New York, N. Y. Filed June 11, 1923.

PENTONIA

Particular description of goods.—Garments for Women—Namely, Cloaks, Suits, Wraps, Capes, and Coats.
Claims use since May 29, 1923.

Ser. No. 181,864. (CLASS 37. PAPER AND STATIONERY.) AUGUST B. PLUSHKELL, doing business as Flatopn Binder Company, Los Angeles, Calif. Filed June 11, 1923.

FLATOPN

Particular description of goods.—Loose-Leaf Binders.
Claims use since April, 1922.

Ser. No. 181,873. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE THOMSON WOOD FINISHING CO., Philadelphia, Pa. Filed June 11, 1923.



The lining on the drawing indicates shading.
Particular description of goods.—Dry, Ready-Mixed, and Paste Paints, Enamels, Varnishes, and Stains, Paint and Varnish Removers.
Claims use since about May 5, 1923.

Ser. No. 181,904. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARL MARTY & COMPANY, Chicago, Ill. Filed June 12, 1923.



Particular description of goods.—Cheese.
Claims use since Mar. 25, 1923.

Ser. No. 181,905. (CLASS 39. CLOTHING.) NEW CASTLE NOTION COMPANY, New Castle, Pa. Filed June 12, 1923.

THE LAST WORD

Particular description of goods.—Trousers, Overalls; Dress, Negligee, and Work Shirts; Coats, and Leather, Knitted, and Fabric Gloves for Men; Sweaters, Bathing Suits, Knitted and Textile Fabric Underwear, Hosiery, and Hose Supporters for Men, Women, and Children.
Claims use since May 23, 1923.

Ser. No. 181,992. (CLASS 38. PRINTS AND PUBLICATIONS.) RALEIGH JAMES HUGHES, Greensboro, N. C. Filed June 14, 1923.

ARCHITECTURAL GEM

Particular description of goods.—Building Plans and Designs.
Claims use since May 12, 1923.

Ser. No. 181,995. (CLASS 15. OILS AND GREASES.) JAMES W. JAMESON, doing business as Jameson Oil Company, Los Angeles, Calif. Filed June 14, 1923.

BLUE DIAMOND GASOLINE

The words "Blue Diamond" and the diamond being painted in blue. The word "Gasoline" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Gasoline.
Claims use since Jan. 1, 1923.

Ser. No. 182,006. (CLASS 17. TOBACCO PRODUCTS.) ROTH TOBACCO COMPANY, Cape Girardeau, Mo. Filed June 14, 1923.



WAX

Particular description of goods.—Twist and Plug Tobacco.
Claims use since 1915.

Ser. No. 182,007. (CLASS 17. TOBACCO PRODUCTS.) ROTH TOBACCO COMPANY, Cape Girardeau, Mo. Filed June 14, 1923.



Particular description of goods.—Twist and Plug Tobacco.
Claims use since 1915.

Ser. No. 182,013. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) PAUL H. SCHWARTZ, doing business as Bob-o-Link Products Co., Baltimore, Md. Filed June 14, 1923.



Particular description of goods.—Malt Extract.
Claims use since Apr. 30, 1923.

Ser. No. 182,033. (CLASS 15. OILS AND GREASES.) FREDERICK J. ABBOTT, doing business as Crystal Petroleum Products Corporation, Los Angeles, Calif. Filed June 15, 1923.

AUTOLUBE

Particular description of goods.—Lubricating and Motor Oil and Lubricating Greases.
Claims use since May 1, 1923.

Ser. No. 182,040. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. H. BARBER & CO., Chicago, Ill., and Plymouth and Dodgeville, Wis. Filed June 15, 1923.



Particular description of goods.—Cheese.
Claims use since July 1, 1922.

Ser. No. 182,042. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. H. BARBER & CO., Chicago, Ill., and Plymouth and Dodgeville, Wis. Filed June 15, 1923.



Particular description of goods.—Cheese.
Claims use since Sept. 15, 1922.

Ser. No. 182,053. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) JOHN STEVENSON IMLACH, Ottawa, Canada. Filed June 15, 1923.

TWISTEST

Particular description of goods.—Precision Tools or Tools for Testing the Alignment of Internal-Combustion-Engine Connecting Rods.
Claims use since November, 1921.

Ser. No. 182,115. (CLASS 17. TOBACCO PRODUCTS.) TAMPA CIGAR COMPANY, Tampa, Fla. Filed June 16, 1923.



The portrait appearing on the drawing is fanciful and not real.
Particular description of goods.—Cigars.
Claims use since Oct. 5, 1915.

Ser. No. 182,116. (CLASS 17. TOBACCO PRODUCTS.) TAMPA CIGAR COMPANY, Tampa, Fla. Filed June 16, 1923.



Petitioner disclaims any intention to register the words "Mild Havana" shown on the drawing, as such words are used only to designate the grade of cigar sold under the trade-mark; also disclaims any intention to register the representation of a cigar shown on the drawing.
Particular description of goods.—Cigars.
Claims use since June 27, 1908.

Ser. No. 182,130. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) EUGENE BYRNES, Carmel, Calif. Filed June 18, 1923.



Particular description of goods.—Skates, Baseballs, Baseball Mitts and Baseball Gloves, Bats, Golf Balls, Golf Clubs, Tennis Balls, Tennis Rackets, Footballs, Basket Balls.
Claims use since Feb. 24, 1921.

Ser. No. 182,142. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EASTERN STATES FARMERS' EXCHANGE, Springfield, Mass. Filed June 18, 1923.



Particular description of goods.—Mixed Feed for Cattle.
Claims use since Sept. 1, 1922.

Ser. No. 182,149. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HILLSDALE BAKING COMPANY, Hillsdale, Mich. Filed June 18, 1923.



Particular description of goods.—Bread.
Claims use since May 1, 1923.

Ser. No. 182,150. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HILLSDALE BAKING COMPANY, Hillsdale, Mich. Filed June 18, 1923.

HILL TOP

Particular description of goods.—Bread.
Claims use since May 1, 1923.

Ser. No. 182,169. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MUPU CITRUS ASSOCIATION, Santa Paula, Calif. Filed June 18, 1923.

OLD SOUTH MOUNTAIN

Particular description of goods.—Fresh Citrous Fruits.
Claims use since Dec. 1, 1910.

Ser. No. 182,171. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MUPU CITRUS ASSOCIATION, Santa Paula, Calif. Filed June 18, 1923.

MUPU

Particular description of goods.—Fresh Citrous Fruits.
Claims use since Dec. 1, 1910.

Ser. No. 182,190. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNITED CHEMICAL AND ORGANIC PRODUCTS CO., Chicago, Ill. Filed June 18, 1923.

U-COP-CO

Particular description of goods.—Steam Bone Mineral Meal.
Claims use since Mar. 15, 1922.

Ser. No. 182,191. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNITED CHEMICAL AND ORGANIC PRODUCTS CO., Chicago, Ill. Filed June 18, 1923.

MAROMEAL

Particular description of goods.—Hog Feed and Meal.
Claims use since Jan. 13, 1922.

Ser. No. 182,248. (CLASS 39. CLOTHING.) EDWARD KOLBERT & SONS, New York, N. Y. Filed June 20, 1923.

Skunda

Particular description of goods.—Fur Collars and Fur Cuffs.
Claims use since about May 1, 1923.

Ser. No. 182,255. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MONARCH SPECIALTY MANUFACTURING CO., New York, N. Y. Filed June 20, 1923.

AMERICAN BEAUTY

Trade-mark consists of the words "American Beauty."
Particular description of goods.—Powder Puffs.
Claims use since Feb. 15, 1922.

Ser. No. 182,266. (CLASS 39. CLOTHING.) RUBINOWITZ BROS., New York, N. Y. Filed June 20, 1923.

DEXTER

Particular description of goods.—Hosiery and Underwear of Knitted and Textile Fabric for Men, Women, and Children.
Claims use since December, 1922.

Ser. No. 182,322. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed June 21, 1923.

BANNER

Particular description of goods.—Bread.
Claims use since June 9, 1923.

Ser. No. 182,325. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIS NORTON & CO., North Topeka, Kans. Filed June 21, 1923.

SOOTHSAYER

Particular description of goods.—Wheat Flour.
Claims use since Apr. 26, 1923.

Ser. No. 182,396. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BLACK BROS. FLOUR MILLS, Beatrice, Nebr. Filed June 25, 1923.

BEATRICE BEST

Particular description of goods.—Wheat Flour.
Claims use since March, 1922.

Ser. No. 182,419. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KEHLOR FLOUR MILLS COMPANY, St. Louis, Mo. Filed June 25, 1923.

FLOWER GIRL

Particular description of goods.—Wheat Flour.
Claims use since Dec. 27, 1915.

Ser. No. 182,435. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Filed June 25, 1923.

KETTLE

Particular description of goods.—Cookies and Small Cakes.
Claims use since on or about Jan. 16, 1920.

Ser. No. 182,462. (CLASS 37. PAPER AND STATIONERY.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed June 26, 1923.

VENUS

Particular description of goods.—Pencil Clips.
Claims use since June 9, 1923.

Ser. No. 182,465. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BISHOP & COMPANY, Los Angeles, Calif. Filed June 26, 1923.

MELTA-EATS

Particular description of goods.—Cookies.
Claims use since May 11, 1923.

Ser. No. 182,468. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) ECONOMY WIPING MATERIALS CO., INC., New York, N. Y. Filed June 26, 1923.

Handi-wipes

Particular description of goods.—Pieces of Fabric Used for Polishing, Cleaning, or Dusting.
Claims use since about May 2, 1923.

Ser. No. 182,506. (CLASS 45. BEVERAGES, NONALCOHOLIC.) FLORIDA PRODUCTS COMPANY, INC., New York, N. Y. Filed June 27, 1923.

GINJA-MEL

Particular description of goods.—Alcoholic, Maltless Carbonated Beverages Sold as Soft Drinks.
Claims use since June 23, 1923.

Ser. No. 182,524. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) JOSEPH. TYROLER, New York, N. Y. Filed June 27, 1923.

NORLITE

Particular description of goods.—Picture-Projection Lamps and Parts Thereof.
Claims use since about Jan. 15, 1923.

Ser. No. 182,552. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ZOLA THOMPSON, doing business as Crystal Chemical Co., San Francisco, Calif. Filed June 28, 1923.

TRADE MARK CCC REG. U.S. PAT. OFF.

No claim is made to the words "Trade Mark" and "Reg. U. S. Pat. Off.," and therefore the words "Trade Mark" and "Reg. U. S. Pat. Off." appearing on the drawing are disclaimed apart from the mark as shown.
Particular description of goods.—Wax for Polishing Floors, Furniture, Woodwork, Linoleum, and Automobiles.
Claims use since June 12, 1923.

Ser. No. 182,601. (CLASS 39. CLOTHING.) MORRIS, SLOAN, MORRIS & CO., Chicago, Ill. Filed June 29, 1923.

MARSLO MILLS MSM BRAND

The word "Brand" forms no part of the registration sought apart from the mark shown in the drawing.
Particular description of goods.—Men's, Women's, and Children's Hosiery, Underwear of Knitted and of Textile Fabric, Sweater Coats, and Negligee and Work Shirts.
Claims use since May 1, 1923.

Ser. No. 182,670. (CLASS 39. CLOTHING.) "ONYX" HOSIERY INC., New York, N. Y. Filed June 30, 1923.



The picture is fanciful.

Particular description of goods.—Children's Hosiery.
Claims use since June 13, 1923.

Ser. No. 182,687. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed June 30, 1923.

Ve-Ve

Particular description of goods.—Bread.
Claims use since June 12, 1923.

Ser. No. 182,688. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed June 30, 1923.

NU-WAY

Particular description of goods.—Bread.
Claims use since June 12, 1923.

Ser. No. 182,713. (CLASS 37. PAPER AND STATIONERY.) D. D. MADDEN & CO., INC., Portland, Oreg. Filed July 2, 1923.

BANK CHECK PAPER

The applicant disclaims the descriptive words "Bank Check Paper" apart from the mark shown, and in which the same appear.
Particular description of goods.—Paper Used for Printing or Lithographing Bank Checks and Other Instruments.
Claims use since June 12, 1923.

Ser. No. 182,719. (CLASS 38. PRINTS AND PUBLICATIONS.) ALICE GRAM ROBINSON, Washington, D. C. Filed July 2, 1923.

Congressional Digest

Particular description of goods.—Monthly Publication.
Claims use since February, 1922.

Ser. No. 182,729. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TRENTON MILLING COMPANY, Trenton, Ill. Filed July 2, 1923.

PICKANINNY

Particular description of goods.—Self-Rising Wheat Flour.
Claims use since June 13, 1923.

Ser. No. 182,758. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LILLIE MILL COMPANY, Franklin, Tenn. Filed July 3, 1923.



Particular description of goods.—Wheat Flour.
Claims use since May 1, 1922.

Ser. No. 182,777. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STODDARD MILL & GRAIN COMPANY, Advance, Mo. Filed July 3, 1923.

FINEST SILK

Particular description of goods.—Wheat Flour.
Claims use since January, 1908.

Ser. No. 182,781. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SWINGLEY BROS., Rockford and Freeport, Ill., and Beloit, Wis. Filed July 3, 1923.

Meadow Brook

Particular description of goods.—Butter.
Claims use since March, 1912.

Ser. No. 182,805. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HECKER-JONES-JEWELL MILLING COMPANY, New York, N. Y. Filed July 5, 1923. Under ten-year proviso.

MONT BLANC

Particular description of goods.—Wheat Flour.
Claims use since August, 1892.

Ser. No. 182,806. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HECKER-JONES-JEWELL MILLING COMPANY, New York, N. Y. Filed July 5, 1923. Under ten-year proviso.



KNICKERBOCKER

Particular description of goods.—Wheat Flour.
Claims use since 1880.

Ser. No. 182,807. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HECKER-JONES-JEWELL MILLING COMPANY, New York, N. Y. Filed July 5, 1923.

WHITE DIAMOND

Particular description of goods.—Wheat Flour.
Claims use since Mar. 11, 1895.

Ser. No. 182,808. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HECKER-JONES-JEWELL MILLING COMPANY, New York, N. Y. Filed July 5, 1923. Under ten-year proviso.

LA BELLE PATRIE

Particular description of goods.—Wheat Flour.
Claims use since August, 1892.

Ser. No. 182,811. (CLASS 31. FILTERS AND REFRIGERATORS.) HO-JAY CORPORATION, Rochester, N. Y. Filed July 5, 1923.

OCTO THERMO

Particular description of goods.—Beverage Coolers.
Claims use since Feb. 24, 1923.

Ser. No. 182,812. (CLASS 45. BEVERAGES, NONALCOHOLIC.) HO-JAY CORPORATION, Rochester, N. Y. Filed July 5, 1923.

HOJ

Particular description of goods.—Nonalcoholic, Maltless Beverages and Sirups Used in Making the Same.
Claims use since Feb. 24, 1923.

Ser. No. 182,817. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JERSEY SILK MILLS, New York, N. Y. Filed July 5, 1923.

Particular description of goods.—Silk, Artificial-Silk, Silk and Artificial Silk, Silk and Wool, and Silk and Cotton Piece Goods.
Claims use since Mar. 30, 1920.

Ser. No. 182,821. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JERSEY SILK MILLS, New York, N. Y. Filed July 5, 1923.

TRUHU

Particular description of goods.—Silk, Artificial-Silk, Silk and Artificial Silk, Silk and Wool, and Silk and Cotton Piece Goods.
Claims use since Mar. 30, 1920.

Ser. No. 182,827. (CLASS 39. CLOTHING.) KING LOCKWOOD CO., Bristol, Tenn. Filed July 5, 1923.



No claim is made to the exclusive use of the word "Brand" apart from the mark shown on the drawing.
Particular description of goods.—Overalls and Coats.
Claims use since March, 1914.

Ser. No. 182,941. (CLASS 37. PAPER AND STATIONERY.) HENRY L. TETAMORE, Glendale, N. Y. Filed July 7, 1923.

PARANOID

Particular description of goods.—Wrapping Paper.
Claims use since Jan. 1, 1923.

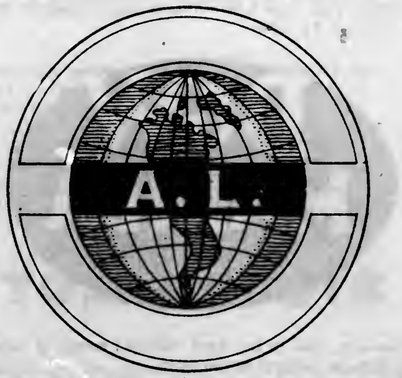
Ser. No. 182,973. (CLASS 38. PRINTS AND PUBLICATIONS.) INTERNATIONAL WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y. Filed July 9, 1923.

ELECTRICAL COMMUNICATION

Particular description of goods.—Title of a Quarterly Publication.
Claims use since August, 1922.

Ser. No. 182,977. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) FIRMA R. KRANENBURG, Groningen, Netherlands. Filed July 9, 1923.

ANTILOOD.



Without waiving any rights at common law the applicant disclaims any attempt to cover in this registration

the word "Antilood" except in the precise relation and association in which this word appears in the drawing, wherein the lining represents shading only.

Particular description of goods.—Substitutes for White Lead.

Claims use since Nov. 10, 1911.

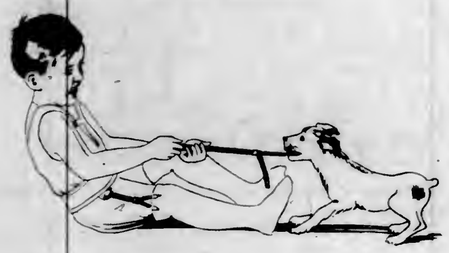
Ser. No. 182,987. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) OS-JACO BRAIDED LINE CO., Pawtucket, R. I. Filed July 9, 1923.

ACE

Particular description of goods.—Fishlines.

Claims use since June 30, 1923.

Ser. No. 183,004. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) A. STEIN & COMPANY, Chicago, Ill. Filed July 9, 1923.



Particular description of goods.—Dress Shields, Elastic Webbing, and Shirred Elastic Ribbon.

Claims use since July 1, 1912.

Ser. No. 183,056. (CLASS 37. PAPER AND STATIONERY.) THE DIEM & WING PAPER CO., Cincinnati, Ohio. Filed July 11, 1923.

D&W MANILA

No claim made to the word "Manila" except in connection with the balance of the mark.

Particular description of goods.—Wrapping Paper.

Claims use since January, 1912.

Ser. No. 183,064. (CLASS 39. CLOTHING.) MORRIS W. HAFT & BROS. INC., New York, N. Y. Filed July 11, 1923.

JAUNTY JUNIORS

Particular description of goods.—Ladies' Outer Garments—viz, Coats, Dresses, Cloaks, and Suits in Two-Piece Garments.

Claims use since June 1, 1923.

Ser. No. 183,065. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) STANLEY F. HANZEL, doing business as S. F. Hanzel Card Co., Chicago, Ill. Filed July 11, 1923.

BLUE SPADE

Particular description of goods.—Playing Cards.

Claims use since June 19, 1923.

Ser. No. 183,066. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) STANLEY F. HANZEL, doing business as S. F. Hanzel Card Co., Chicago, Ill. Filed July 11, 1923.

GOLDEN DIAMOND

Particular description of goods.—Playing Cards.

Claims use since June 19, 1923.

Ser. No. 183,067. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) STANLEY F. HANZEL, doing business as S. F. Hanzel Card Co., Chicago, Ill. Filed July 11, 1923.

GREEN CLUB

Particular description of goods.—Playing Cards.

Claims use since June 19, 1923.

Ser. No. 183,107. (CLASS 37. PAPER AND STATIONERY.) GEORGE E. GAGNIER, doing business as Gagnier Trimming Supply Co., Detroit, Mich. Filed July 12, 1923.

BUCKFIBRE

Particular description of goods.—Fiber Board and Automobile Panel Material.

Claims use since July, 1918.

Ser. No. 183,108. (CLASS 37. PAPER AND STATIONERY.) GEORGE E. GAGNIER, doing business as Gagnier Trimming Supply Co., Detroit, Mich. Filed July 12, 1923.

BOSSFIBRE

Particular description of goods.—Fiber Board and Automobile Panel Material.

Claims use since May, 1921.

Ser. No. 183,109. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GARNER PRINT WORKS & BLEACHERY, New York, N. Y. Filed July 12, 1923.

LUSTRETTE

Trade-mark consists of the word "Lustrette."

Particular description of goods.—Cotton Piece Goods.

Claims use since May 24, 1923.

Ser. No. 183,110. (CLASS 39. CLOTHING.) CHARLES H. GOEPEL, Jr., Philadelphia, Pa. Filed July 12, 1923.

LYNNWOOD

Particular description of goods.—Hosiery.

Claims use since about June 1, 1923.

Ser. No. 183,118. (CLASS 45. BEVERAGES, NONALCOHOLIC.) MONADNOCK BEVERAGE COMPANY, Troy, N. H. Filed July 12, 1923.

MONADNOCK

Particular description of goods.—Nonalcoholic, Maltless Soft Drinks.

Claims use since May 1, 1923.

Ser. No. 183,129. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) ALBERT L. UNGERBUEHLER, doing business as Cincinnati Brush & Mop Manufacturing Company, Cincinnati, Ohio. Filed July 12, 1923.

BLUE BIRD

Particular description of goods.—Brooms.

Claims use since Apr. 22, 1920.

Ser. No. 183,201. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) F. F. DALLEY COMPANY, INC., Buffalo, N. Y. Filed July 14, 1923.

2 IN 1 Shining KIT

No claim is made to the words "Shining Kit" apart from the mark.

Particular description of goods.—Shoe-Shining Kits Comprising a Brush, Cloth, and Dauber.

Claims use since about June 18, 1923.

Ser. No. 183,210. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HAYES & ARMSTRONG, Mineral Wells, Tex. Filed July 14, 1923.

H. & A.

Particular description of goods.—Furniture Polish.

Claims use since July 5, 1923.

Ser. No. 183,320. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SEWALL PAINT AND GLASS COMPANY, Kansas City, Mo. Filed July 16, 1923.

WHITE LINE

Particular description of goods.—Prepared Paint in Paste or Semipaste Form.

Claims use since Mar. 24, 1923.

Ser. No. 183,378. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GLIDDEN COMPANY, Cleveland, Ohio. Filed July 18, 1923.

TUSK COTE

Particular description of goods.—Liquid Varnish for Furniture.

Claims use since Mar. 1, 1923.

Ser. No. 183,382. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ALMA P. HICKMAN, Joplin, Mo. Filed July 18, 1923.

Billie Button Doll

BILLIE BUTTON

The word "Doll" is hereby disclaimed except in combination with the mark shown.

Particular description of goods.—Cloth and Stockinet Dolls.

Claims use since Dec. 1, 1921.

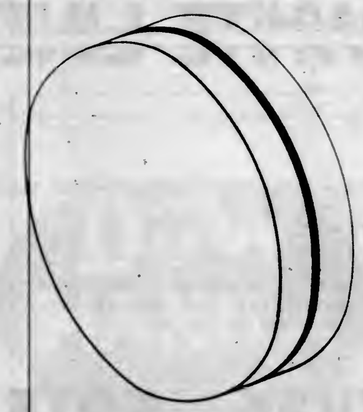
Ser. No. 183,385. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHNSON MOTOR CO., South Bend, Ind. Filed July 18, 1923.

WATER-BUG

Particular description of goods.—Outboard Internal-Combustion Motors for Small Craft.

Claims use since Apr. 12, 1923.

Ser. No. 183,438. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DIAMOND STATE FIBRE COMPANY, Elsmere, Del., and Bridgeport, Pa. Filed July 19, 1923.

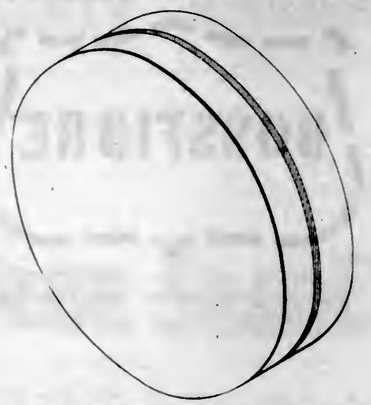


The drawing is lined for black, no claim being made to the representation of the goods apart from the mark as shown. The mark consists of a black insert.

Particular description of goods.—Gear Blanks and Gear Wheels.

Claims use since Feb. 10, 1923.

Ser. No. 183,440. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DIAMOND STATE FIBRE COMPANY, Elsmere, Del., and Bridgeport, Pa. Filed July 19, 1923.



The drawing is lined for red, no claim being made to the representation of the goods apart from the mark as shown. The mark consists of a red insert.

Particular description of goods.—Gear Blanks and Gear Wheels.

Claims use since Feb. 10, 1923.

Ser. No. 183,462. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WYOMING TOY MFG. CO., Wilkes-Barre, Pa. Filed July 19, 1923.

AUTOETTE

Particular description of goods.—Toy Coaster Vehicles.

Claims use since June 1, 1923.

Ser. No. 183,499. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ELBERT C. PECK, Los Angeles, Calif. Filed July 20, 1923.

PPP PECK'S PURE PAINTS

The words "Pure Paints" appearing in the drawing are disclaimed apart from the mark as shown.

Particular description of goods.—Dry, Paste, and Ready-Mixed Paints, Oil Colors, Varnish, Paint Enamels, Prepared Shellac, Filler, Stain, Linseed Oil, and Linseed-Oil Substitute.

Claims use since May, 1922.

Ser. No. 183,519. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) DENTAL PROTECTIVE SUPPLY COMPANY, Chicago, Ill. Filed July 21, 1923.

FELLOWSHIP

Particular description of goods.—Dental Alloys and Cements.

Claims use since 1894.

Ser. No. 183,612. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VERBAND DER SCHWEIZERISCHEN STICKWAREN-AUSRÜSTANSTALTEN, St. Gall, Switzerland. Filed July 23, 1923.



No claim made for the words "Woven and Finished in Switzerland" apart from the mark shown.

Particular description of goods.—Cotton Fabrics Woven and Finished in Switzerland.

Claims use since April, 1923.

Ser. No. 183,621. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BANNER SILK KNITTING MILLS, INC., New York, N. Y. Filed July 24, 1923.

Luxciel

Particular description of goods.—Knitted Silk Fabrics—viz, Silk Knitted Cloth in the Bolt.

Claims use since June, 1923.

Ser. No. 183,630. (CLASS 15. OILS AND GREASES.) JOHN LIPIN, doing business as Motor Go Oil Company, Millersville, Md. Filed July 24, 1923.



No registration rights are claimed for the words "Motor Go—Auto Oils" and "Easy Run—More Pep" apart from the mark shown in the drawing; but applicant waives none of his common-law rights in said mark or any element thereof.

Particular description of goods.—Lubricating Oils and Greases and Gasoline.

Claims use since May 1, 1922.

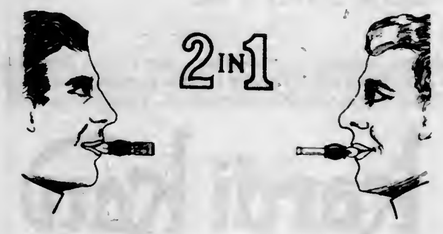
Ser. No. 183,640. (CLASS 43. THREAD AND YARN.) THE AMERICAN THREAD COMPANY, Jersey City, N. J., and New York, N. Y. Filed July 25, 1923.

HERCULES

Particular description of goods.—Cotton Thread and Yarn.

Claims use since Apr. 23, 1923.

Ser. No. 183,685. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) AMERICAN BRIAR PIPE COMPANY, Chicago, Ill. Filed July 26, 1923.



No claim being made to the representation of goods apart from the mark shown in the drawing.

Particular description of goods.—Cigar and Cigarette Holders.

Claims use since May 1, 1923.

Ser. No. 183,717. (CLASS 37. PAPER AND STATIONERY.) THE PAPER NOVELTY COMPANY, Green Bay, Wis. Filed July 26, 1923.



No claim made for the expression "Handy Auto Package" apart from the mark shown by the drawing.
Particular description of goods.—Package of Paper Napkins.
Claims use since Apr. 16, 1923.

Ser. No. 183,873. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JESS E. DABNEA, Petaluma, Calif. Filed July 31, 1923.



Particular description of goods.—Transparent Dressing for Painted and Varnished Surfaces and Glass.
Claims use since June 15, 1923.

Ser. No. 183,895. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TINGUE MANUFACTURING COMPANY, Seymour, Conn., and New York, N. Y. Filed July 31, 1923.

CHINCO

Particular description of goods.—Woven Pile Fabrics Made of Mohair.
Claims use since May 28, 1923.

Ser. No. 183,901. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BANNER SILK KNITTING MILLS, INC., New York, N. Y. Filed Aug. 1, 1923.

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Particular description of goods.—Knitted Silk Fabrics—viz, Silk Knitted Cloth in the Bolt.
Claims use since July 5, 1923.

Ser. No. 184,159. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. BLECHMAN & SONS INC., New York, N. Y. Filed Aug. 7, 1923.

Charm

Drawing consists of the word "Charm."
Particular description of goods.—Handkerchiefs, Table Covers, Toweling, Bedspreads, Cheesecloth, Cambric Lining, and Ribbons.
Claims use since November, 1922.

Ser. No. 184,191. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE STERO CORPORATION, Wilmington, Del. Filed Aug. 7, 1923.

STERO

Particular description of goods.—Handmade Chinese Wool Rugs and Hair Nets.
Claims use since May 1, 1923.

Ser. No. 184,197. (CLASS 43. THREAD AND YARN.) THE VISCOSE COMPANY, Marcus Hook, Pa. Filed Aug. 7, 1923.



The lining indicates shading.
Particular description of goods.—Artificial-Silk Yarns and Threads.
Claims use since July 30, 1923.

Ser. No. 184,245. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LAWRENCE V. JOHNSON, New York, N. Y. Filed Aug. 9, 1923.

DIXIE
BLOOM

Trade-mark consists of the words "Dixie Bloom."
Particular description of goods.—Handkerchiefs.
Claims use since July 23, 1923.

Ser. No. 184,320. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE R. BLANKENBURG COMPANY, Philadelphia, Pa. Filed Aug. 11, 1923.

SILTEX

Particular description of goods.—Cotton Goods in the Piece.
Claims use since April, 1922.

Ser. No. 184,372. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VOSS & STERN, New York, N. Y. Filed Aug. 11, 1923.

Water Lily

Particular description of goods.—Silk Chiffon Cloth.
Claims use since Aug. 6, 1923.

Ser. No. 184,384. (CLASS 43. THREAD AND YARN.) CORTICELLI SILK COMPANY, Florence, Northampton, Mass. Filed Aug. 13, 1923.

ARTGLO

Particular description of goods.—Silk Threads and Threads of Cotton and Silk.
Claims use since about Oct. 4, 1922.

Ser. No. 184,520. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Aug. 15, 1923.

FURRONA

The trade-mark consists of the word "Furrona."
Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Jan. 20, 1923.

Ser. No. 184,523. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Aug. 15, 1923.

CORDONA

Trade-mark consists of the word "Cordona."
Particular description of goods.—Pile Fabrics in the Piece.
Claims use since June 6, 1923.

Ser. No. 184,565. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Aug. 16, 1923.

DUKANA

The trade-mark consists of the word "Dukana."
Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Apr. 14, 1923.

Ser. No. 184,566. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Aug. 16, 1923.

LYONA

The trade-mark consists of the word "Lyona."
Particular description of goods.—Pile Fabrics in the Piece.
Claims use since June 7, 1923.

Ser. No. 184,605. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Filed Aug. 17, 1923.

Sportsangames

Particular description of goods.—Silk Piece Goods.
Claims use since Aug. 3, 1923.

Ser. No. 185,009. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) S. W. EVANS & SON, Philadelphia, Pa. Filed Aug. 27, 1923.

ROCKET

Particular description of goods.—Umbrella and Parasol Ribs.
Claims use since about June 1, 1923.

Ser. No. 185,010. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) S. W. EVANS & SON, Philadelphia, Pa. Filed Aug. 27, 1923.

SHUTTER

Particular description of goods.—Umbrella and Parasol Ribs.
Claims use since about June 1, 1923.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

OCTOBER 2, 1923.

173,595. FLAKE LYE USED AS DETERGENT. NIAGARA ALKALI COMPANY, Niagara Falls, N. Y.
Filed September 25, 1922. Serial No. 169,917. PUBLISHED JUNE 26, 1923.

173,596. CERTAIN-NAMED NOTIONS AND SMALL WARES. WILLIAM H. COLE & CO. LTD., Painswick, England.
Filed August 9, 1922. Serial No. 167,973. PUBLISHED JUNE 12, 1923.

173,597. HARNESS OIL AND SOLE-LEATHER OIL. STANDARD OIL COMPANY, San Francisco, Calif.
Filed August 4, 1922. Serial No. 167,834. PUBLISHED JUNE 5, 1923.

173,598. HARNESS OIL AND SOLE-LEATHER OIL. STANDARD OIL COMPANY, San Francisco, Calif.
Filed August 4, 1922. Serial No. 167,833. PUBLISHED JUNE 5, 1923.

173,599. COFFEE. FRANCISCO COTERA, doing business as The Cotera Brothers, El Paso, Tex.
Filed August 14, 1922. Serial No. 168,208. PUBLISHED JULY 3, 1923.

173,600. ADVERTISING CARDS AND PLACARDS USED FOR WINDOW DISPLAYS AND SIMILAR PURPOSES. MERCHANTS PUBLISHING COMPANY, doing business as Kalasign Company of America, Kalamazoo, Mich.
Filed July 28, 1922. Serial No. 167,529. PUBLISHED JUNE 26, 1923.

173,601. NEWSPAPERS. LAURA NELSON-KIRKWOOD, Kansas City, Mo., trustee of the Estate of William R. Nelson, deceased.
Filed July 25, 1922. Serial No. 167,361. PUBLISHED JUNE 12, 1923.

173,602. GARTERS. PRESIDENT SUSPENDER COMPANY, Shirley, Mass.
Filed July 12, 1922. Serial No. 166,787. PUBLISHED JULY 3, 1923.

173,603. DESKS. DURARD DESK MFG. CO., Los Angeles, Calif.
Filed July 11, 1922. Serial No. 166,736. PUBLISHED JUNE 12, 1923.

173,604. BAKER'S SIRUP USED IN MAKING BREAD AND SIMILAR ARTICLES OF FOOD, MADE FROM MALT AND CORN. THE ADOLPH COORS COMPANY, Golden, Colo.
Filed July 8, 1922. Serial No. 166,591. PUBLISHED JULY 3, 1923.

173,605. SOAP. THE ELI LILLY AND COMPANY, Indianapolis, Ind., now by change of name Eli Lilly & Company, Indianapolis, Ind., a Corporation of Indiana.
Filed July 3, 1922. Serial No. 166,459. PUBLISHED JUNE 28, 1923.

173,606. PHONOGRAPH-RECORD CABINETS. NATIONAL RECORD EXCHANGE COMPANY, Iowa City, Iowa.
Filed February 23, 1922. Serial No. 159,717. PUBLISHED JUNE 19, 1923.

173,607. CERTAIN-NAMED HOUSEHOLD FURNITURE. GLADDING DRY GOODS CO., Providence, R. I.
Filed February 3, 1922. Serial No. 158,829. PUBLISHED MAY 29, 1923.

173,608. PUBLICATIONS AND PRINTED LITERATURE. PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa.
Filed February 1, 1922. Serial No. 158,728. PUBLISHED JULY 3, 1923.

173,609. SOFT DRINK AND SIRUP. THE QUEEN CITY BOTTLING COMPANY, Cincinnati, Ohio.
Filed January 23, 1922. Serial No. 158,333. PUBLISHED JULY 25, 1922.

173,610. REMEDY FOR INDIGESTION AND DYSPEPSIA. MARVIN HERNDON, Washington, D. C.
Filed January 23, 1922. Serial No. 158,312. PUBLISHED JULY 11, 1922.

173,611. CHURCH BULLETIN. THE CHURCH BULLETIN, INC., New York, N. Y.
Filed January 20, 1922. Serial No. 158,178. PUBLISHED JUNE 19, 1923.

173,612. NUTS AND NUT PRODUCTS—NAMELY, NUTS IN THE SHELL, SHELLED NUTS, SALTED NUTS, CHOPPED NUTS, NUT CANDY, PEANUT BUTTER, AND MIXTURES OF NUTS AND RAISINS. THE UNITED FIG & DATE CO., Chicago, Ill.
Filed January 9, 1922. Serial No. 157,701. PUBLISHED JULY 3, 1923.

173,613. GREETING CARDS. DUPUIS-RICKMAN ENGRAVING & EMBOSSING CO., Chicago, Ill.
Filed January 6, 1922. Serial No. 157,560. PUBLISHED JUNE 12, 1923.

173,614. SAUSAGE, BOILED HAM, MEAT LOAF, PRESSED CORN BEEF, JELLIED TONGUE, AND COTTAGE BUTTS. SCHAFFNER BROTHERS COMPANY, Erie, Pa.
Filed September 25, 1922. Serial No. 169,931. PUBLISHED JULY 3, 1923.

173,615. CANNED FRUITS AND CANNED VEGETABLES. OREGON GROWERS COOPERATIVE ASSOCIATION, Salem, Oreg.
Filed July 26, 1922. Serial No. 167,411. PUBLISHED JULY 3, 1923.

173,616. FRESH APPLES. DENNEY & CO., Yakima, Wash.
Filed July 10, 1922. Serial No. 166,657. PUBLISHED JULY 3, 1923.

173,617. FRESH PRUNES. W. C. STONE, Emmett, Idaho.
Filed June 24, 1922. Serial No. 166,020. PUBLISHED JULY 3, 1923.

173,618. ICE-CREAM CONES. HARRY L. GOODWIN, doing business as The Coney Cone Company, Kansas City, Mo., assignor to C. G. Rowan, Kansas City, Mo.
Filed June 9, 1922. Serial No. 165,258. PUBLISHED JULY 3, 1923.

173,619. SOLES AND HEELS FOR BOOTS AND SHOES COMPOSED WHOLLY OR IN PART OF RUBBER. SEIBERLING RUBBER COMPANY, Akron, Ohio.
Filed May 26, 1922. Serial No. 164,564. PUBLISHED JUNE 12, 1923.

173,620. CHEWING GUM. FRANKLIN-CARO COMPANY, INC., Richmond, Va.
Filed March 8, 1917. Serial No. 101,984. PUBLISHED JULY 3, 1923.

173,621. AUTO AND FURNITURE CLEANER. RAYMOND BOYAKIN, Salt Lake City, Utah.
Filed June 26, 1922. Serial No. 166,036. PUBLISHED JUNE 26, 1923.

173,622. ICE CREAM AND FROZEN DAINTIES. FRANK E. MAYOL, Salt Lake City, Utah.
Filed June 19, 1922. Serial No. 165,697. PUBLISHED JULY 3, 1923.

173,623. BEADS AND BEAD TRIMMING. LEO F. PHILLIPS & CO., New York, N. Y.
Filed June 16, 1922. Serial No. 165,599. PUBLISHED JULY 3, 1923.

173,624. GINGHAMS IN THE PIECE. FRED BUTTERFIELD & CO. INC., New York, N. Y.
Filed June 12, 1922. Serial No. 165,343. PUBLISHED JULY 10, 1923.

173,625. TOMATO HOT SAUCE; CANNED VEGETABLES—VIZ, TOMATOES; CANNED FRUITS—VIZ, PEACHES; AND CANNED FISH—VIZ, SARDINES. BAY SIDE CANNING COMPANY, Alviso, Calif.
Filed June 12, 1922. Serial No. 165,339. PUBLISHED JULY 3, 1923.

173,626. OLIVE OIL. CORRADO & MARRANZINI, New York, N. Y.
Filed May 25, 1922. Serial No. 164,493. PUBLISHED JUNE 5, 1923.

173,627. CIGARETTES. ALICE S. WILDES, doing business as Alys, New York, N. Y.
Filed May 20, 1922. Serial No. 164,210. PUBLISHED JUNE 27, 1922.

173,628. STOVE POLISH. CAPITOL CHEMICAL COMPANY, Somerville, Mass.
Filed April 22, 1922. Serial No. 162,721. PUBLISHED JULY 10, 1923.

173,629. BOVINE AND SWINISH AND MUTTON MEATS, HAMS, SAUSAGES, SCRAPPLE, MEAT LOAF, SAUSAGE MEAT, LARD, BACON, AND BOVINE AND SWINISH AND MUTTON MEAT PRODUCTS. N. AUTH PROV. CO., Washington, D. C.
Filed April 11, 1922. Serial No. 162,092. PUBLISHED JULY 3, 1923.

173,630. CHEMICAL COMPOSITIONS FOR REMOVING CARBON FROM INTERNAL-COMBUSTION ENGINES AND THE LIKE. BUFFALO SPECIALTY COMPANY, Buffalo, N. Y.
Filed March 31, 1922. Serial No. 161,522. PUBLISHED JULY 3, 1923.

173,631. RUG-CLEANING COMPOUND. RUGCLENSO MFG. CO., Topeka, Kans.
Filed March 16, 1922. Serial No. 160,778. PUBLISHED MAY 29, 1923.

173,632. CERTAIN NAMED MEDICINAL PREPARATIONS. MELVIN HENRY BEVERIDGE, doing business as Fever Nox Company, Bayles, Calif.
Filed March 6, 1922. Serial No. 160,240. PUBLISHED JULY 3, 1923.

173,633. SOFT DRINKS. THE SUGAR LOAF BEVERAGE CO., Winona, Minn.
Filed January 31, 1918. Serial No. 108,728. PUBLISHED FEBRUARY 8, 1921.

173,634. SETS OF PICTURES. MAX B. SHEFFER CARD CO., Chicago, Ill.
Filed November 22, 1922. Serial No. 172,404. PUBLISHED MAY 29, 1923.

173,635. FASTENERS MADE OF RIBBON OR OTHER MATERIAL FOR HOLDING IN PLACE LINGERIE RIBBONS OR STRAPS. MARY JANE AIKENHEAD DAVY, New York, N. Y.
Filed November 27, 1922. Serial No. 172,586. PUBLISHED MAY 29, 1923.

173,636. CANNED FRUITS AND CANNED VEGETABLES. OREGON GROWERS COOPERATIVE ASSOCIATION, Salem, Oreg.
Filed July 26, 1922. Serial No. 167,412. PUBLISHED JULY 3, 1923.

173,637. MEN'S, WOMEN'S, AND CHILDREN'S SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. THE J. L. HUDSON COMPANY, Detroit, Mich.
Filed August 7, 1922. Serial No. 167,917. PUBLISHED JUNE 12, 1923.

173,638. CANNED FRUITS, CANNED VEGETABLES, DRIED FRUITS, AND DRIED VEGETABLES. THE JOHNSON-LOCKE MERCANTILE CO., San Francisco, Calif.
Filed August 16, 1922. Serial No. 168,314. PUBLISHED JULY 3, 1923.

173,639. FRESH GRAPES. SUNSET FRUIT CO., Lodi, Calif.
Filed August 17, 1922. Serial No. 168,387. PUBLISHED JULY 3, 1923.

173,640. HAT LININGS FOR LADIES' HATS. CHICAGO MERCANTILE CO., Chicago, Ill.
Filed October 28, 1921. Serial No. 154,679. PUBLISHED MAY 8, 1923.

173,641. HOSIERY. OLIVER KNITTING COMPANY, Philadelphia, Pa.
Filed August 31, 1921. Serial No. 152,443. PUBLISHED MARCH 28, 1922.

173,642. WHEAT FLOUR. M. AINSA & SONS, INC., El Paso, Tex., assignor to Bowen-Oglesby Milling Company, Independence, Kans., a Corporation of Kansas.
Filed January 14, 1922. Serial No. 157,908. PUBLISHED OCTOBER 10, 1922.

173,643. PEANUTS PREPARED WITH MEAT EXTRACT. HORACE G. CRAVEN, doing business as Bouillonized Peanut Company, Philadelphia, Pa.
Filed February 3, 1922. Serial No. 158,815. PUBLISHED JULY 10, 1923.

173,644. BOVINE AND SWINISH AND MUTTON MEATS, HAMS, SAUSAGES, SCRAPPLE, MEAT LOAF, SAUSAGE MEAT, LARD, BACON, AND BOVINE AND SWINISH AND MUTTON MEAT PRODUCTS. N. AUTH PROV. CO., Washington, D. C.
Filed April 11, 1922. Serial No. 162,093. PUBLISHED JULY 3, 1923.

173,645. FRESH CITROUS FRUITS—VIZ, ORANGES; AND FRESH DECIDUOUS FRUITS—NAMELY, APPLES. LLEWELLYN A. BANKS, doing business as Citrus Growers Cash Association, Los Angeles, Calif.
Filed April 10, 1922. Serial No. 161,959. PUBLISHED JULY 3, 1923.

173,646. HYPODERMIC SYRINGES. DONIGER & COMPANY INC., New York, N. Y.
Filed March 5, 1923. Serial No. 176,957. PUBLISHED MAY 8, 1923.

173,647. MANILA ROPE. WHITLOCK CORDAGE CO., Jersey City, N. J., and New York, N. Y.
Filed February 28, 1923. Serial No. 176,773. PUBLISHED JUNE 26, 1923.

173,648. CORSETS AND BRASSIÈRES. INTERSTATE CORSET COMPANY, New York, N. Y.
Filed February 28, 1923. Serial No. 176,739. PUBLISHED JUNE 26, 1923.

173,649. SURGEON'S GLOVES. DAVOL RUBBER COMPANY, Providence, R. I.
Filed February 28, 1923. Serial No. 176,721. PUBLISHED JUNE 26, 1923.

173,650. INFANTS' WEAR — NAMELY, DRESSES, ROMPERS, CAPS, COATS, AND HATS. SACHS BROS. AND JALKUT, New York, N. Y.
Filed February 26, 1923. Serial No. 176,655. PUBLISHED JUNE 26, 1923.

173,651. SWEATERS AND MEN'S, WOMEN'S, AND CHILDREN'S SWEATER COATS. REX KNITTING CO., Little Falls, N. Y.
Filed February 24, 1923. Serial No. 176,570. PUBLISHED JUNE 19, 1923.

173,652. MIDDIES, SMOCKS, AND CHILDREN'S DRESSES. TROJAN MIDDY CO., INC., Troy, N. Y.
Filed February 24, 1923. Serial No. 176,582. PUBLISHED JUNE 19, 1923.

173,653. MEDICINAL OINTMENT USED FOR THE PROTECTION AND TREATMENT OF WOUNDS INVOLVING BONE. ELI LILLY & COMPANY, Indianapolis, Ind.
Filed February 24, 1923. Serial No. 176,559. PUBLISHED JUNE 19, 1923.

173,654. LADIES' COATS AND SUITS. WILKIN & ADLER, INC., New York, N. Y.
Filed February 23, 1923. Serial No. 176,519. PUBLISHED JUNE 19, 1923.

173,655. SALAD DRESSINGS. J. C. BROWN, Newark, Ohio.
Filed February 23, 1923. Serial No. 176,446. PUBLISHED JUNE 26, 1923.

173,656. UNDERWEAR. WYMAN, PARTRIDGE & CO., Minneapolis, Minn.
Filed February 19, 1923. Serial No. 176,307. PUBLISHED JUNE 19, 1923.

173,657. HOSIERY. LLOYD E. NICHOLSON, New York, N. Y.
Filed February 19, 1923. Serial No. 176,275. PUBLISHED JUNE 19, 1923.

173,658. HOSIERY. WYMAN, PARTRIDGE & CO., Minneapolis, Minn.
Filed February 19, 1923. Serial No. 176,306. PUBLISHED JUNE 19, 1923.

173,659. LADIES' KNITTED UNDERWEAR. RONALD A. REIFF, Pottstown, Pa.
Filed February 17, 1923. Serial No. 176,216. PUBLISHED JUNE 19, 1923.

173,660. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. GERSON & BREYER, San Francisco, Calif.
Filed February 17, 1923. Serial No. 176,174. PUBLISHED JUNE 19, 1923.

173,661. BRASSIÈRES. DOROTHY BICKUM, New York, N. Y.
Filed February 17, 1923. Serial No. 176,159. PUBLISHED JUNE 26, 1923.

173,662. TOILET PAPER AND PAPER TOWELS. SAUQUOIT TOILET PAPER CO., INC., New Hartford, N. Y.
Filed February 14, 1923. Serial No. 176,048. PUBLISHED JUNE 26, 1923.

173,663. PROPHYLACTIC OINTMENT. STEPHEN CRAIG COMPANY, Newport, R. I.
Filed February 13, 1923. Serial No. 176,001. PUBLISHED JUNE 26, 1923.

173,664. CONVERTIBLE COATS. THE UNITED STATES OVERALL MANUFACTURING COMPANY, Cincinnati, Ohio.
Filed February 12, 1923. Serial No. 175,972. PUBLISHED JUNE 19, 1923.

173,665. MEDICINAL SEED—VIZ, A BOWEL REGULATOR. LANMAN & KEMP, INC., New York, N. Y.
Filed February 10, 1923. Serial No. 175,874. PUBLISHED JUNE 26, 1923.

173,666. FRUIT PRESERVES, HONEY, AND MINCEMEAT. STANDARD SYRUP COMPANY, St. Louis, Mo.
Filed March 17, 1923. Serial No. 177,631. PUBLISHED July 3, 1923.

173,667. SOFT DRINKS. ELGOT & GIUNTINI, New York, N. Y.
Filed March 19, 1923. Serial No. 177,659. PUBLISHED JULY 3, 1923.

173,668. PERIODICALS PUBLISHED IN A MONTHLY EDITION WITH SPECIAL QUARTERLY AND SEMIANNUAL EDITIONS. EXCELLA PATTERN COMPANY, New York, N. Y.
Filed March 19, 1923. Serial No. 177,661. PUBLISHED JUNE 19, 1923.

173,669. NEWSPAPER AND NEWSPAPER SUPPLEMENTS PUBLISHED WEEKLY. THE TRIBUNE COMPANY, Chicago, Ill.
Filed March 19, 1923. Serial No. 177,707. PUBLISHED MAY 29, 1923.

173,670. BACON, HAMS, AND LARD. GEORGE LITTLE LIMITED, Manchester, England.
Filed March 22, 1923. Serial No. 177,839. PUBLISHED JULY 10, 1923.

173,671. COMMON SOAP. THE N. K. FAIRBANK COMPANY, New York, N. Y.
Filed March 23, 1923. Serial No. 177,905. PUBLISHED JUNE 5, 1923.

173,672. BRAIDS, TASSELS, PASSEMENTERIES, AND GARNITURES. MORISSE LACE & EMBROIDERY CO., St. Louis, Mo.
Filed March 24, 1923. Serial No. 177,983. PUBLISHED JULY 3, 1923.

173,673. BRAIDS, TASSELS, PASSEMENTERIES, AND GARNITURES. MORISSE LACE & EMBROIDERY CO., St. Louis, Mo.
Filed March 24, 1923. Serial No. 177,984. PUBLISHED JULY 3, 1923.

173,674. CIGARS. R. J. SEIDENBERG CO., Buffalo, N. Y.
Filed March 24, 1923. Serial No. 178,003. PUBLISHED JULY 3, 1923.

173,675. PORCH AND WINDOW SHADES. THE AEROSHADE COMPANY, Waukesha, Wis.
Filed March 26, 1923. Serial No. 178,016. PUBLISHED JUNE 12, 1923.

173,676. MONTHLY PERIODICAL. YELLOW CAB MANUFACTURING CO., Chicago, Ill.
Filed March 26, 1923. Serial No. 178,082. PUBLISHED JUNE 12, 1923.

173,677. NEEDLES FOR HAND SEWING. JOHN JAMES & SONS LIMITED, Redditch, England.
Filed March 27, 1923. Serial No. 178,105. PUBLISHED JULY 3, 1923.

173,678. PASTE FOR CLEANING FALSE TEETH. HIRAM MERRITT, doing business as Diozone Company, Newburgh, N. Y.
Filed March 28, 1923. Serial No. 178,182. PUBLISHED JULY 3, 1923.

173,679. SWEATER COATS. WAYMART KNITTING MILL, Waymart, Pa.
Filed March 28, 1923. Serial No. 178,199. PUBLISHED JULY 10, 1923.

173,680. PERIODICAL PUBLICATIONS ISSUED AT REGULAR INTERVALS. AMERICAN AGRICULTURIST, INC., New York, N. Y.
Filed March 29, 1923. Serial No. 178,204. PUBLISHED JULY 10, 1923.

173,681. CIGARETTES. ISAAC BLUM, New York, N. Y.
Filed March 29, 1923. Serial No. 178,213. PUBLISHED JULY 3, 1923.

173,682. PHOTOGRAPHIC PRINTS. THE FOWLER & SLATER CO., Cleveland, Ohio.
Filed March 31, 1923. Serial No. 178,380. PUBLISHED JULY 3, 1923.

173,683. CHEWING GUM. LISTERATED GUM CORPORATION, New York, N. Y.
Filed March 31, 1923. Serial No. 178,399. PUBLISHED JULY 10, 1923.

173,684. FROCKS. NEWMAN, MARCUS & TORCHIA, Cincinnati, Ohio.
Filed April 2, 1923. Serial No. 178,455. PUBLISHED JULY 10, 1923.

173,685. DRESSES AND WAISTS. SAMUEL M. FOSTER COMPANY, Fort Wayne, Ind.
Filed April 5, 1923. Serial No. 178,600. PUBLISHED JULY 10, 1923.

173,686. HAND VALVES FOR GAS, STEAM, AND WATER. THE COLONIAL BRASS WORKS, INC., New Britain, Conn.
Filed March 19, 1923. Serial No. 177,651. PUBLISHED JUNE 12, 1923.

173,687. MOTOR-VEHICLE ACCELERATORS. WILLIAMS BROS. AIRCRAFT CORPORATION, San Francisco, Calif.
Filed March 16, 1923. Serial No. 177,579. PUBLISHED JUNE 12, 1923.

173,688. FLOOR OILERS, YARN MOPS, DUST CLOTHS, AND YARN DUST BRUSHES. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed March 16, 1923. Serial No. 177,576. PUBLISHED JUNE 19, 1923.

173,689. ALL-WOOL TEXTILE PIECE GOODS. W. H. HOLBROOK COMPANY, Boston, Mass.
Filed March 15, 1923. Serial No. 177,489. PUBLISHED JUNE 19, 1923.

173,690. BASEBALL BATS. THOMAS M. SHURTZ, doing business as Manchester Handle & Turning Company, Manchester, Mich.
Filed March 14, 1923. Serial No. 177,458. PUBLISHED JUNE 19, 1923.

173,691. COMBINATION MOP AND DUSTER FOR HOUSEHOLD PURPOSES. ANTON LINK, Chicago, Ill.
Filed March 13, 1923. Serial No. 177,395. PUBLISHED JUNE 19, 1923.

173,692. DOLLS AND PUZZLE GAMES. UNIVERSAL FEATURE & SPECIALTY COMPANY, Chicago, Ill.
Filed March 10, 1923. Serial No. 177,344. PUBLISHED JUNE 19, 1923.

173,693. VEHICLES, PARTICULARLY AUTOMOBILE BODIES. WELBILT AUTO-BODY CO., Los Angeles, Calif.
Filed March 12, 1923. Serial No. 177,338. PUBLISHED JUNE 19, 1923.

173,694. HAIR DRESSING. JOSEPH THOMPSON, Sioux City, Iowa.
Filed March 12, 1923. Serial No. 177,334. PUBLISHED JUNE 12, 1923.

173,695. LEATHERS. ROBERTSON LEATHER COMPANY, INC., New York, N. Y.
Filed March 12, 1923. Serial No. 177,329. PUBLISHED JUNE 19, 1923.

173,696. POWER WHISTLES. HENRY FREUND, Houston, Tex.
Filed March 12, 1923. Serial No. 177,289. PUBLISHED JUNE 19, 1923.

173,697. SWEATERS. ELY & WALKER DRY GOODS COMPANY, doing business as Lincoln Knit Goods Mills, St. Louis, Mo.
Filed March 12, 1923. Serial No. 177,284. PUBLISHED JUNE 19, 1923.

173,698. TOY DOGS. FRANK O. KING, Chicago, Ill.
Filed March 10, 1923. Serial No. 177,229. PUBLISHED JUNE 19, 1923.

173,699. TAILOR-MADE DRESSES. GREENWALD, FRIEDMAN & CO., INC., New York, N. Y.
Filed March 9, 1923. Serial No. 177,184. PUBLISHED JUNE 19, 1923.

173,700. POWDER PUFFS. JOSEPH J. COSIN, doing business as The Cosin Co., New York, N. Y.
Filed March 9, 1923. Serial No. 177,167. PUBLISHED JUNE 19, 1923.

173,701. SILK AND COTTON CRÊPE IN THE PIECE. TILTON & KEELER, INC., New York, N. Y.
Filed March 8, 1923. Serial No. 177,149. PUBLISHED JUNE 19, 1923.

173,702. HAIR NETS. GEORGE BORGFELDT & CO., New York, N. Y.
Filed March 8, 1923. Serial No. 177,120. PUBLISHED JUNE 19, 1923.

173,703. LATHES, MILLING MACHINES, DRILLING MACHINES, PLANING MACHINES, AND BORING MACHINES. JOSEPH T. RYERSON & SON, Chicago, Ill.
Filed March 5, 1923. Serial No. 177,023. PUBLISHED JUNE 19, 1923.

173,704. MEDICINAL PREPARATION TO RELIEVE PAIN. THE HEIDBRINK COMPANY, Minneapolis, Minn.
Filed March 5, 1923. Serial No. 176,998. PUBLISHED JUNE 26, 1923.

173,705. BOLTS, RIVETS, AND SPIKES. THE MILTON MANUFACTURING COMPANY, Milton, Pa.
Filed March 9, 1923. Serial No. 177,190. PUBLISHED JUNE 12, 1923.

173,706. TOOTHBRUSHES, HAIRBRUSHES, AND NAILBRUSHES. HEIDNER & GRINNELL, INC., Tacoma, Wash.
Filed March 29, 1923. Serial No. 178,247. PUBLISHED JUNE 26, 1923.

173,707. UMBRELLAS AND PARASOLS. FREDERICK MARTIN BURNS, Mount Vernon, N. Y.
Filed March 24, 1923. Serial No. 177,956. PUBLISHED JUNE 19, 1923.

173,708. PAINT ENAMELS. THE AMERICAN VARNISH CO., Chicago, Ill.
Filed March 23, 1923. Serial No. 177,892. PUBLISHED JUNE 26, 1923.

173,709. PAINT ENAMELS. THE AMERICAN VARNISH CO., Chicago, Ill.
Filed March 23, 1923. Serial No. 177,891. PUBLISHED JUNE 26, 1923.

173,710. FRESH CITROUS FRUITS. WILLIAM G. ROE, Winter Haven, Fla.
Filed March 13, 1923. Serial No. 177,410. PUBLISHED JULY 3, 1923.

173,711. APPARATUS FOR PERMITTING THE MATCHING OF COLOR SHADES BY ARTIFICIAL LIGHT JUST AS WITH SOLAR LIGHT. GILLET & FILS, Villeurbanne, France.
Filed March 9, 1923. Serial No. 177,181. PUBLISHED JUNE 26, 1923.

173,712. KNITTED CRAVATS. PHILIP TRABULSI, doing business as Trabulsi Knit Fabric Co., New York, N. Y.
Filed March 8, 1923. Serial No. 177,151. PUBLISHED JUNE 26, 1923.

173,713. MONTHLY PUBLICATION. CHARLES SCRIBNER'S SONS, New York, N. Y.
Filed April 5, 1923. Serial No. 178,631. PUBLISHED JUNE 26, 1923.

173,714. CARD GAME. HENRY STORGAARD, doing business as Aut-O-Luk Card Co., Yakima, Wash.
Filed April 6, 1923. Serial No. 178,699. PUBLISHED JULY 3, 1923.

173,715. TAPE. ASSOCIATED MERCHANDISING CORPORATION, Newark, N. J., and New York, N. Y.
Filed April 7, 1923. Serial No. 178,704. PUBLISHED JULY 3, 1923.

173,716. DRESS SHIELDS. ASSOCIATED MERCHANDISING CORPORATION, Newark, N. J., and New York, N. Y.
Filed April 7, 1923. Serial No. 178,705. PUBLISHED JULY 3, 1923.

173,717. NEWSPAPER CARTOON SECTION. JOSEPH A. CUNNINGHAM, Philadelphia, Pa.
Filed April 11, 1923. Serial No. 178,959. PUBLISHED JUNE 26, 1923.

173,718. MONTHLY PERIODICAL. TREE LOVERS ASSOCIATION OF AMERICA, Aurora, Ill.
Filed April 11, 1923. Serial No. 179,015. PUBLISHED JUNE 26, 1923.

173,719. DRESS SHIELDS. I. B. KLEINERT RUBBER COMPANY, New York, N. Y.
Filed April 13, 1923. Serial No. 179,104. PUBLISHED JULY 3, 1923.

173,720. SHEET MUSIC. M. WITMARK & SONS, New York, N. Y.
Filed April 13, 1923, Serial No. 179,122. PUBLISHED JUNE 26, 1923.

173,721. MONTHLY PERIODICAL. NORTHWESTERN BELL TELEPHONE COMPANY, Des Moines, Iowa, and Omaha, Nebr.
Filed April 16, 1923. Serial No. 179,218. PUBLISHED JUNE 26, 1923.

173,722. COTTON POPLINS IN THE PIECE. AMERICAN BLEACHED GOODS COMPANY, INC., New York, N. Y.
Filed April 17, 1923. Serial No. 179,255. PUBLISHED JULY 10, 1923.

173,723. GINGHAM PIECE GOODS. NEUBURGER & COMPANY, New York, N. Y.
Filed April 18, 1923. Serial No. 179,314. PUBLISHED JULY 10, 1923.

173,724. A MAGAZINE PUBLISHED FROM TIME TO TIME. SIGMUND NEWMAN, doing business as S. Newman & Company, New York, N. Y.
Filed April 19, 1923. Serial No. 179,380. PUBLISHED JUNE 26, 1923.

173,725. BASEBALLS AND BASEBALL GLOVES. THE BON-TOBER SPORTING GOODS CO., Hartford, Conn.
Filed April 20, 1923. Serial No. 179,394. PUBLISHED JULY 3, 1923.

173,726. FRINGES AND ART NEEDLEWORK CONSISTING OF STAMPED LINENS AND COTTONS. POWERS, FRIEND & LICHTMAN, New York, N. Y.
Filed April 20, 1923. Serial No. 179,426. PUBLISHED JULY 3, 1923.

173,727. MAGAZINES PUBLISHED MONTHLY. THE DEAN-HICKS COMPANY, Grand Rapids, Mich.
Filed April 27, 1923. Serial No. 179,780. PUBLISHED JUNE 26, 1923.

173,728. MAGAZINE PUBLISHED MONTHLY. ELSIE D. HOUTAIN, Brooklyn, N. Y.
Filed April 28, 1923. Serial No. 179,869. PUBLISHED JUNE 26, 1923.

173,729. FISHING LINES BOTH BRAIDED AND TWISTED, RODS, SNELLED HOOKS, AND LEADERS. A. G. HALL, doing business as Hall Rod Works, Highland Mills, N. Y.
Filed May 2, 1923. Serial No. 180,065. PUBLISHED JULY 3, 1923.

173,730. WOOLENS AND WORSTEDS IN THE PIECE. WARMBIRDS, INC., New York, N. Y.
Filed May 7, 1923. Serial No. 180,312. PUBLISHED JULY 10, 1923.

173,731. HAIR CURLERS. WEST ELECTRIC HAIR CURLER COMPANY, Philadelphia, Pa.
Filed May 7, 1923. Serial No. 180,313. PUBLISHED JULY 3, 1923.

173,732. WOOLEN GOODS IN THE PIECE. WORUMBO MANUFACTURING COMPANY, Bath, Me.
Filed May 8, 1923. Serial No. 180,351. PUBLISHED JULY 10, 1923.

173,733. LEATHER LOOM SUNDRIES — NAMELY, CHECK STRAPS, LUG STRAPS, JACK STRAPS, HEEL STRAPS, BUMPER STRAPS, HOLD-UP STRAPS, PICKERS, PICKING BANDS, AND COMB APRONS. CHARLES BOND COMPANY, Philadelphia, Pa.
Filed April 5, 1923. Serial No. 178,588. PUBLISHED JUNE 12, 1923.

173,734. COTTON GOODS IN THE PIECE. LORRAINE MANUFACTURING COMPANY, Pawtucket, R. I.
Filed April 7, 1923. Serial No. 178,749. PUBLISHED JUNE 12, 1923.

173,735. GAME. LUBBERS AND BELL MANUFACTURING COMPANY, Clinton, Iowa.
Filed April 7, 1923. Serial No. 178,753. PUBLISHED JUNE 19, 1923.

173,736. PAINTBRUSHES. BAKER BRUSH CO. INC., New York, N. Y.
Filed April 3, 1923. Serial No. 178,490. PUBLISHED JUNE 19, 1923.

173,737. TRACK SWITCHES, SWITCH STANDS, SWITCH PLATES, AND PARTS THEREOF. RAMAPO AJAX CORPORATION, New York, N. Y.
Filed March 30, 1923. Serial No. 178,357. PUBLISHED JUNE 12, 1923.

173,738. DOOR LOCKS. THE BASSICK COMPANY, Bridgeport, Conn.
Filed March 30, 1923. Serial No. 178,324. PUBLISHED JUNE 12, 1923.

173,739. RUBBER PADS FOR USE IN THE TEXTILE AND OTHER INDUSTRIES. FELLSWAY RUBBER CO., Boston, Mass.
Filed March 30, 1923. Serial No. 178,337. PUBLISHED JUNE 12, 1923.

173,740. BASEBALLS, BALL-PLAYERS' GLOVES, AND BALL-PLAYERS' MITTS. RAWLINGS MANUFACTURING CO., St. Louis, Mo.
Filed March 29, 1923. Serial No. 178,283. PUBLISHED JUNE 19, 1923.

173,741. CANNED PEELED TOMATOES AND TOMATO SAUCE. P. PASTENE & CO., INC., Boston, Mass.
Filed March 29, 1923. Serial No. 178,278. PUBLISHED JUNE 19, 1923.

173,742. FURNITURE POLISH. BUDDY PRODUCTS CO., Chicago, Ill.
Filed March 29, 1923. Serial No. 178,217. PUBLISHED JUNE 19, 1923.

173,743. CRÊPE PAPER. DENNISON MANUFACTURING CO., Framingham, Mass.
Filed March 27, 1923. Serial No. 178,093. PUBLISHED JUNE 19, 1923.

173,744. LOOSE-LEAF BOOKS OF ACCOUNTING AND PACKAGES AND PAGES THEREFOR. SIMPLICITY SALES COMPANY, Seattle, Wash.
Filed March 26, 1923. Serial No. 178,068. PUBLISHED JUNE 19, 1923.

173,745. LEAD PENCILS. EBERHARD FABER PENCIL COMPANY, Brooklyn, N. Y.
Filed March 22, 1923. Serial No. 177,835. PUBLISHED JUNE 19, 1923.

173,746. FORGED BODIES FOR HAND STAMPS, FULLERED FORGINGS, AND I FORGINGS. JAS. H. MATTHEWS & COMPANY, Pittsburgh, Pa.
Filed March 21, 1923. Serial No. 177,792. PUBLISHED JUNE 12, 1923.

173,747. MOTOR PISTONS. MUSKEGON MOTOR SPECIALTIES COMPANY, Muskegon, Mich.
Filed March 20, 1923. Serial No. 177,749. PUBLISHED JUNE 12, 1923.

173,748. CERTAIN KNITTED PIECE GOODS. RHEINAUER-ROTH KNITTING MILLS, INC., New York, N. Y.
Filed March 19, 1923. Serial No. 177,693. PUBLISHED JUNE 26, 1923.

173,749. COTTON DUCK, AND CANVAS PIECE GOODS. A. D. JUILLIARD & CO., INC., New York, N. Y.
Filed March 19, 1923. Serial No. 177,673. PUBLISHED JUNE 26, 1923.

173,750. SILK RIBBONS IN THE PIECE. W. V. JUDKINS & SON, Boston, Mass.
Filed March 19, 1923. Serial No. 177,672. PUBLISHED JUNE 26, 1923.

173,751. DRESS PATTERNS. ENCELLA PATTERN COMPANY, New York, N. Y.
Filed March 19, 1923. Serial No. 177,660. PUBLISHED JUNE 19, 1923.

173,752. HAND VALVES FOR GAS, STEAM, AND WATER. THE COLONIAL BRASS WORKS, INC., New Britain, Conn.
Filed March 19, 1923. Serial No. 177,652. PUBLISHED JUNE 12, 1923.

173,753. CANNED FISH. ABBOTT, HALL & CO., also doing business as John Braadland Ltd., and Venus Packing Co., Boston, Mass.
Filed March 17, 1923. Serial No. 177,580. PUBLISHED JULY 3, 1923.

173,754. PREPARATION FOR CLEANING FABRIC, LEATHER, AND WOODWORK. POLYGON PRODUCTS CO., Boston, Mass.
Filed March 15, 1923. Serial No. 177,515. PUBLISHED JULY 3, 1923.

173,755. PICTURES PRINTED FROM CAMERA NEGATIVES. LUXITE LABORATORIES, Kansas City, Mo.
Filed March 15, 1923. Serial No. 177,497. PUBLISHED JUNE 12, 1923.

173,756. BOOTS AND SHOES MADE OF LEATHER, FABRIC, OR A COMBINATION OF LEATHER AND FABRIC. CROOKER & MORSE, INC., Bridgewater, Mass.
Filed March 14, 1923. Serial No. 177,428. PUBLISHED JULY 10, 1923.

173,757. SHOE AND LEATHER POLISHES. HOWARD R. CALVERT, Medina, Ohio.
Filed March 13, 1923. Serial No. 177,358. PUBLISHED JUNE 5, 1923.

173,758. SOAP AND SOAP PRODUCTS. BONDED PRODUCTS CORPORATION, New York, N. Y.
Filed March 13, 1923. Serial No. 177,353. PUBLISHED JUNE 5, 1923.

173,759. SOAP AND SOAP PRODUCTS. BONDED PRODUCTS CORPORATION, New York, N. Y.
Filed March 13, 1923. Serial No. 177,352. PUBLISHED JUNE 5, 1923.

173,760. WOMEN'S, MISSES', AND CHILDREN'S WASH DRESSES AND APRONS. JOHN C. MICHAEL COMPANY, Chicago, Ill.
Filed March 12, 1923. Serial No. 177,313. PUBLISHED JULY 10, 1923.

173,761. LADIES' HATS. HENRY W. JAEDIKER, New York, N. Y.
Filed March 12, 1923. Serial No. 177,300. PUBLISHED JULY 3, 1923.

173,762. PINEAPPLE GLACÉ, GLACÉ ASSORTED FRUITS, AND CRYSTALLIZED GINGER. CAUSSE MANUFACTURING & IMPORTING CO., Bound Brook, N. J., and New York, N. Y.
Filed March 12, 1923. Serial No. 177,274. PUBLISHED JULY 3, 1923.

173,763. SHOE-SHINING PREPARATION HAVING INCIDENTAL DYEING PROPERTIES. SANDERSON'S TINTINE CO., Lincoln, Nebr.
Filed March 10, 1923. Serial No. 177,245. PUBLISHED JUNE 26, 1923.

173,764. MEN'S CLOTHING. NATIONAL SHIRT SHOPS, INC., New York, N. Y.
Filed March 9, 1923. Serial No. 177,194. PUBLISHED JULY 10, 1923.

173,765. TITLE FOR CARTOONS. ASSOCIATED EDITORS, Chicago, Ill.
Filed March 8, 1923. Serial No. 177,119. PUBLISHED JUNE 12, 1923.

173,766. MATTRESSES. JOHN HOEY & CO., San Francisco, Calif.
Filed March 7, 1923. Serial No. 177,084. PUBLISHED MAY 29, 1923.

173,767. INFORMATIONAL PICTURE BOOKS PUBLISHED IN A CONTINUING SERIES. CHARLES FITZHUGH TALMAN, doing business as The Pictogram Company, Washington, D. C.
Filed March 6, 1923. Serial No. 177,055. PUBLISHED JUNE 19, 1923.

173,768. ADVERTISING LITHOGRAPHED, PRINTED, HAND-PAINTED PAPER AND CARDBOARD SIGNS, DISPLAYS, AND BILLBOARD SHEETS. REX WINDOW ADVERTISING CO., INC., New York, N. Y.
Filed March 6, 1923. Serial No. 177,051. PUBLISHED JUNE 12, 1923.

173,769. FIBER CHAIR SEATS. AMERICAN FIBRE CHAIR SEAT CORP., Long Island City, N. Y.
Filed March 6, 1923. Serial No. 177,028. PUBLISHED JUNE 12, 1923.

173,770. OLIVE OIL. C. PERCEVAL, New York, N. Y.
Filed March 3, 1923. Serial No. 176,913. PUBLISHED JULY 3, 1923.

173,771. CANNED SALMON. MCGOVERN & MCGOVERN, Seattle, Wash.
Filed March 3, 1923. Serial No. 176,904. PUBLISHED JULY 10, 1923.

173,772. COMBS AND BARRETTES MADE OF A COMPOSITION MATERIAL KNOWN AS VISCOLOID. PACIFIC NOVELTY COMPANY, New York, N. Y.
Filed March 2, 1923. Serial No. 176,851. PUBLISHED MAY 29, 1923.

173,773. CHEMICAL COMPOUND USED IN THE MANUFACTURE OF RUBBER PRODUCTS. R. T. VANDERBILT COMPANY, INC., New York, N. Y.
Filed February 6, 1923. Serial No. 175,631. PUBLISHED JUNE 26, 1923.

173,774. VEGETABLE LARD SUBSTITUTE. THE COCONUT CORPORATION, Baltimore, Md.
Filed February 7, 1923. Serial No. 175,650. PUBLISHED JUNE 26, 1923.

173,775. TOILET ARTICLES—VIZ, TOOTH PASTE. WM. MCDONAGH & SONS, New York, N. Y.
Filed February 7, 1923. Serial No. 175,669. PUBLISHED JUNE 26, 1923.

173,776. OILVE OIL. ROME IMPORTING CO., New York, N. Y.
Filed February 7, 1923. Serial No. 175,680. PUBLISHED JUNE 26, 1923.

173,777. AMMONIA. SNOW CLOUD AMMONIA COMPANY, Boston, Mass.
Filed February 7, 1923. Serial No. 175,683. PUBLISHED JUNE 26, 1923.

173,778. OINTMENT. SKRATCH MANUFACTURING CO., Los Angeles, Calif.
Filed February 8, 1923. Serial No. 175,744. PUBLISHED JUNE 26, 1923.

173,779. MAGNESIA USED FOR PHARMACEUTICAL PURPOSES. LABORATORIO CHIMICO FARMACEUTICO MODERNO DI GRANELLI CANDIANI & C., Turin, Italy.
Filed February 9, 1923. Serial No. 175,794. PUBLISHED JUNE 26, 1923.

173,780. SAUCE CONSISTING OF A COMBINATION OF MUSHROOMS, TOMATOES, CHICKEN, AND TOMATO PASTE. PRINCE MACARONI MFG. CO., Boston, Mass.
Filed February 9, 1923. Serial No. 175,808. PUBLISHED JUNE 26, 1923.

173,781. FRESH CITROUS FRUITS. DUARTE-MONROVIA FRUIT EXCHANGE, Duarte, Calif.
Filed February 10, 1923. Serial No. 175,853. PUBLISHED JUNE 26, 1923.

173,782. CANDY. THE EUCLID CANDY CO., Cleveland, Ohio.
Filed February 17, 1923. Serial No. 176,171. PUBLISHED JULY 3, 1923.

173,783. POT ROAST, SPAGHETTI, POTTED BEEF, TRIPE STEW, RAVIOLI, AND NOODLES. CHARLES MOLINELLI, doing business as Italian Macaroni Production Co., Rockaway Beach, N. Y.
Filed February 20, 1923. Serial No. 176,354. PUBLISHED JULY 3, 1923.

173,784. PURE VIRGIN OLIVE OIL. HYMAN KARLIN, doing business as H. Karlin Co., New York, N. Y.
Filed February 24, 1923. Serial No. 176,550. PUBLISHED JULY 3, 1923.

173,785. CANNED OKRA. C. PERCEVAL, New York, N. Y.
Filed March 6, 1923. Serial No. 177,047. PUBLISHED JULY 3, 1923.

173,786. CANDY. WALTER M. LOWNEY COMPANY, Boston, Mass.
Filed March 10, 1923. Serial No. 177,235. PUBLISHED JULY 3, 1923.

173,787. CARAMELS. PHOEBE PHELPS CARAMEL CO., Boston, Mass.
Filed March 10, 1923. Serial No. 177,243. PUBLISHED JULY 3, 1923.

173,788. POCKET TOOL KNIVES. FRANS VAN DER VEGH, doing business as Hikecut Company, New York, N. Y.
Filed February 20, 1923. Serial No. 176,343. PUBLISHED JUNE 26, 1923.

173,789. FRESH ORANGES AND LEMONS. ESCONDIDO CITRUS UNION, Escondido, Calif.
Filed March 13, 1923. Serial No. 177,369. PUBLISHED JULY 3, 1923.

173,790. HAMS, SHOULDERS, BACON, SAUSAGE, TONGUES, DRIED BEEF, JOWLS, BUTTS, AND LARD. INDIANAPOLIS ABATTOIR COMPANY, Indianapolis, Ind.
Filed March 13, 1923. Serial No. 177,380. PUBLISHED JULY 3, 1923.

173,791. MEN'S AND YOUNG MEN'S SUITS AND OVERCOATS. SCHOLDERER & AUG, INC., New York, N. Y.
Filed January 23, 1923. Serial No. 174,979. PUBLISHED JULY 10, 1923.

173,792. MEN'S DRESS SUITS, TUXEDO SUITS, FULL-DRESS SUITS, DINNER, DANCE, AND THEATER JACKETS, RAINCOATS, OVERCOATS, HATS, SWEATERS, COATS, TROUSERS, VESTS, AND KNICKERBOCKERS. JOHN DAVID, New York, N. Y.
Filed January 22, 1923. Serial No. 174,894. PUBLISHED JULY 10, 1923.

173,793. CRYSTALLIZED AND PRESERVED GINGER, CHUTNEY, HONEY, PRESERVED KUMQUATS, AND GLACÉ FRUITS. JOSEPH O. TANEYHILL, New York, N. Y.
Filed January 18, 1923. Serial No. 174,757. PUBLISHED JULY 10, 1923.

173,794. MEN'S WORK SHIRTS. RELIANCE MANUFACTURING COMPANY, Chicago, Ill.
Filed January 18, 1923. Serial No. 174,753. PUBLISHED JULY 10, 1923.

173,795. CLEANING POWDER. PAUL TUMP, Milwaukee, Wis.
Filed January 15, 1923. Serial No. 174,644. PUBLISHED MAY 29, 1923.

173,796. SOAPS, SOAP PASTES, AND SOAP POWDERS. PARFUMERIE ROGER ET GALLET, Paris, France.
Filed January 13, 1923. Serial No. 174,589. PUBLISHED JUNE 26, 1923.

173,797. SOFT DRINK. MOUQUIN RT. & WINE CO. INC., New York, N. Y.
Filed January 10, 1923. Serial No. 174,405. PUBLISHED JULY 3, 1923.

173,798. GRANULAR OR POWDERED ANTISEPTIC CLEANSER FOR THE TOILET. TRIPLE S SERVICE CORPORATION, Denver, Colo.
Filed January 9, 1923. Serial No. 174,370. PUBLISHED JULY 3, 1923.

173,799. SEA FOOD, COMPRISING FRESH AND DRIED FISH AND FRESH SHELL FISH, INCLUDING CRABS, SHRIMP, AND OYSTERS, AND DRIED SHRIMP. THE STAR FISH & OYSTER CO., Mobile, Ala.
Filed January 3, 1923. Serial No. 174,156. PUBLISHED JULY 3, 1923.

173,800. BELT DRESSING. DURYEA MANUFACTURING COMPANY, Bayonne, N. J.
Filed December 23, 1922. Serial No. 173,742. PUBLISHED JUNE 12, 1923.

173,801. SHOE POLISH CONTAINING A DYE. KRAFT CHEMICAL COMPANY, Oklahoma, Okla.
Filed December 21, 1922. Serial No. 173,651. PUBLISHED JUNE 12, 1923.

173,802. BOOKLETS AND BONDS. CALDWELL & COMPANY, Nashville, Tenn.
Filed December 19, 1922. Serial No. 173,562. PUBLISHED JULY 3, 1923.

173,803. TRADING CERTIFICATES. ROBERT LOREN MASON, doing business as Anchor Sales Service, Waterloo, Iowa.
Filed December 18, 1922. Serial No. 173,518. PUBLISHED MAY 29, 1923.

173,804. MAGAZINES PUBLISHED MONTHLY. KAUFMAN-CLIFFORD, INC., Chicago, Ill.
Filed December 14, 1922. Serial No. 173,331. PUBLISHED JUNE 26, 1923.

173,805. CORSETS. WEINGARTEN BROS., New York, N. Y.
Filed December 7, 1922. Serial No. 173,061. PUBLISHED JULY 3, 1923.

173,806. COUCH HAMMOCKS AND STANDS THEREFOR. ATLAS HAMMOCK CO., New York, N. Y.
Filed December 7, 1922. Serial No. 173,048. PUBLISHED JULY 3, 1923.

173,807. INSECTICIDE AND DEODORANT. WILLIAM T. JOHNS, doing business as Texas Chemical & Specialty Co., Fort Worth, Tex.
Filed January 22, 1923. Serial No. 174,902. PUBLISHED JULY 10, 1923.

173,808. PICKLES. ELLEN W. MAFFITT, doing business as University Pickle Company, St. Louis, Mo.
Filed October 30, 1922. Serial No. 171,371. PUBLISHED MAY 15, 1923.

173,809. PYJAMAS, DRESS SHIRTS, NEGLIGEE SHIRTS, AND NIGHTSHIRTS AND MEN'S ROBES. KNOTHE BROTHERS CO., INC., New York, N. Y.
Filed October 31, 1922. Serial No. 171,422. PUBLISHED JULY 3, 1923.

173,810. SOAPS. COLGATE & COMPANY, Jersey City, N. J.
Filed November 1, 1922. Serial No. 171,451. PUBLISHED JUNE 12, 1923.

173,811. BOYS' SUITS. PARKER-BRIDGET COMPANY, Washington, D. C.
Filed November 2, 1922. Serial No. 171,508. PUBLISHED JULY 10, 1923.

173,812. BOOTS, SHOES, SLIPPERS, AND SANDALS MADE OF LEATHER, KID, SATIN, CLOTH, AND FELT. BLOOM SUBLYME SHOE CO., INC., New York, and Brooklyn, N. Y.
Filed November 3, 1922. Serial No. 171,524. PUBLISHED JULY 3, 1923.

173,813. GOLF CLUBS. THE CRAWFORD, MCGREGOR & CANBY COMPANY, Dayton, Ohio.
Filed November 6, 1922. Serial No. 171,623. PUBLISHED JULY 3, 1923.

173,814. SHAVING CREAM. PETER AMSTERDAM, doing business as The Amsterose Co., Philadelphia, Pa., and New York, N. Y.
Filed November 8, 1922. Serial No. 171,720. PUBLISHED JUNE 5, 1923.

173,815. METAL POLISH. B. HELLER & COMPANY, Chicago, Ill.
Filed November 9, 1922. Serial No. 171,757. PUBLISHED MAY 29, 1923.

173,816. CABINETS. WASMUTH-ENDICOTT COMPANY, Andrews, Ind.
Filed November 9, 1922. Serial No. 171,774. PUBLISHED JUNE 12, 1923.

173,817. SOAPS, SOAP PASTES, AND SOAP POWDERS. PARFUMERIE ROGER & GALLET, Paris, France.
Filed November 11, 1922. Serial No. 171,867. PUBLISHED JUNE 12, 1923.

173,818. BISCUITS. PERFECTION BISCUIT COMPANY, Fort Wayne, Ind.
Filed November 13, 1922. Serial No. 171,950. PUBLISHED MARCH 20, 1923.

173,819. JUNIORS' AND MISSES' CLOAKS, CAPES, AND SUITS. SHONINGER-HEINSHEIMER MANUFACTURING CO., Chicago, Ill.
Filed November 13, 1922. Serial No. 171,964. PUBLISHED JULY 3, 1923.

173,820. HOSIERY. FAY HOSIERY MILLS, INCORPORATED, Philadelphia, Pa.
Filed November 14, 1922. Serial No. 171,989. PUBLISHED JUNE 26, 1923.

173,821. KNITTED AND TEXTILE FABRIC UNDERGARMENTS—NAMELY, SHIRTS, DRAWERS, AND COMBINATION SHIRT AND DRAWERS. JACOB MILLER'S SONS CO., Philadelphia, Pa.
Filed November 14, 1922. Serial No. 172,004. PUBLISHED JULY 3, 1923.

173,822. KNITTED OUTER GARMENTS—NAMELY, KNITTED SCARFS, SHAWLS, AND SWEATER COATS. HAWLEY KNITTING MILLS, INC., New York, N. Y.
Filed November 18, 1922. Serial No. 172,221. PUBLISHED JULY 10, 1923.

173,823. CANNED FISH. FRANK H. FROMM, doing business as F. H. Fromm & Company, Philadelphia, Pa.
Filed November 21, 1922. Serial No. 172,329. PUBLISHED MAY 15, 1923.

173,824. MEDICINAL PREPARATION FOR CERTAIN AILMENTS. STANDARD CRAYON MANUFACTURING COMPANY, and doing business also as Anti-Itis Company, Danvers, Mass.
Filed February 6, 1923. Serial No. 175,627. PUBLISHED JUNE 26, 1923.

173,825. DEODORANTS. LAURA GASPARI, New York, N. Y.
Filed February 3, 1923. Serial No. 175,483. PUBLISHED JUNE 26, 1923.

173,826. FRESH CITROUS FRUITS. LINDSAY CO-OPERATIVE CITRUS ASSOCIATION, Lindsay, Calif.
Filed February 6, 1923. Serial No. 175,610. PUBLISHED JUNE 26, 1923.

173,827. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. SANFORD CHAMBERLAIN & ALBERS COMPANY, Knoxville, Tenn.
Filed February 1, 1923. Serial No. 175,408. PUBLISHED JUNE 26, 1923.

173,828. OILY LIQUID FOR IMPREGNATING THE FILLING MASS OF AIR FILTERS. WM. REED ENGINEERING COMPANY, Louisville, Ky.
Filed January 31, 1923. Serial No. 175,371. PUBLISHED JUNE 26, 1923.

173,829. CHEMICAL PREPARATION FOR BLEACHING MATERIAL. SURPASS CHEMICAL CO. INC., Albany, N. Y.
Filed January 26, 1923. Serial No. 175,170. PUBLISHED JUNE 26, 1923.

173,830. KNITTED COATS, JACKETS, AND SWEATERS. JOHN S. ELLIS, doing business as Shirland Knitting Mills, Philadelphia, Pa.
Filed January 25, 1923. Serial No. 175,076. PUBLISHED JUNE 26, 1923.

173,831. KNITTED WEAR. D. BALLANTYNE, BROTHERS & COMPANY, LIMITED, Peebles, Scotland.
Filed January 25, 1923. Serial No. 175,053. PUBLISHED JUNE 26, 1923.

173,832. BRASSIÈRES. DOROTHY BICKUM, New York, N. Y.
Filed January 24, 1923. Serial No. 174,999. PUBLISHED JUNE 26, 1923.

173,833. MEDICINAL POWDERS AND TABLETS FOR CERTAIN NAMED USES. JACKSON D. LEE, Wyncote, Pa.
Filed January 19, 1923. Serial No. 174,789. PUBLISHED JUNE 26, 1923.

173,834. CORSETS, BRASSIÈRES, AND COMBINATION CORSETS AND BRASSIÈRES. INTERNATIONAL CORSET COMPANY, Aurora, Ill.
Filed January 19, 1923. Serial No. 174,785. PUBLISHED JUNE 26, 1923.

173,835. BOOTS AND SHOES OF KID, CANVAS, AND LEATHER. THE JUVENILE SHOE CORPORATION OF AMERICA, Carthage, Mo.
Filed October 2, 1922. Serial No. 170,199. PUBLISHED JUNE 26, 1923.

173,836. WOMEN'S BLOOMERS, PANTALETS, AND PETTICOATS. EAGLE SKIRT COMPANY, New York, N. Y.
Filed November 2, 1922. Serial No. 171,490. PUBLISHED JUNE 26, 1923.

173,837. BOOTS AND SHOES OF KID, CANVAS, AND LEATHER. THE JUVENILE SHOE CORPORATION OF AMERICA, Carthage, Mo.
Filed October 2, 1922. Serial No. 170,196. PUBLISHED JUNE 26, 1923.

173,838. CORSETS. MME. IRENE, New York, N. Y.
Filed September 12, 1922. Serial No. 169,361. PUBLISHED APRIL 24, 1923.

173,839. CHOCOLATE CANDY. C. C. BROWN CANDY CO., Los Angeles, Calif.
Filed September 11, 1922. Serial No. 169,279. PUBLISHED JULY 3, 1923.

173,840. FRESH DECIDUOUS FRUITS. W. A. CALDWELL, Camino, Calif.
Filed September 9, 1922. Serial No. 169,236. PUBLISHED JULY 3, 1923.

173,841. CANNED FRUITS AND VEGETABLES. HOLLAND CANNING COMPANY, Holland, Mich.
Filed November 13, 1922. Serial No. 171,917. PUBLISHED JULY 3, 1923.

173,842. FRESH AND CANNED FRUITS AND VEGETABLES, FRUIT JAMS, AND CATCHUP. PLEASANT GROVE CANNING COMPANY, Pleasant Grove, Utah.
Filed November 13, 1922. Serial No. 171,951. PUBLISHED JULY 3, 1923.

173,843. MEN'S CLOTHING—NAMELY, PANTS. MAX I. REINHERTZ, also doing business as Reinhertz Mfg. Co., San Francisco, Calif.
Filed November 13, 1922. Serial No. 171,957. PUBLISHED JUNE 12, 1923.

173,844. CANNED SALMON. CHINOOK PACKING CO., Chinook, Wash.
Filed December 6, 1922. Serial No. 172,975. PUBLISHED JULY 3, 1923.

173,845. SIRUPS AND EXTRACTS FOR FLAVORING FOODS. WALKER BROS. CO., Boston, Mass., assignor to Za-Rex Food Products Inc., Boston, Mass., a Corporation of Massachusetts.
Filed December 12, 1922. Serial No. 173,261. PUBLISHED JULY 3, 1923.

173,846. BOOTS AND SHOES—NAMELY, WORK SHOES, STREET SHOES, AND DRESS SHOES OF LEATHER AND LEATHER AND RUBBER. THE PHILIP GIARD SHOE COMPANY, INC., Brockton, Mass.
Filed December 27, 1922. Serial No. 173,886. PUBLISHED JUNE 12, 1923.

173,847. CHOCOLATE MALTED CONCENTRATE FOR THE MAKING OF A FOOD DRINK. SETHNESS COMPANY, Chicago, Ill.
Filed January 6, 1923. Serial No. 174,265. PUBLISHED JULY 3, 1923.

173,848. CANNED FRUITS, CANNED VEGETABLES. ALLEN & LEWIS, Portland, Oreg.
Filed January 10, 1923. Serial No. 174,379. PUBLISHED JULY 3, 1923.

173,849. DATES. TH. GIOCALAS & V. COTIMZOGLU, New York, N. Y.
Filed January 11, 1923. Serial No. 174,438. PUBLISHED JULY 3, 1923.

173,850. CANNED VEGETABLES. A. W. FEESER, doing business as A. W. Feeser & Co., Westminster, Silver Run, and Taneytown, Md.
Filed January 15, 1923. Serial No. 174,615. PUBLISHED JULY 3, 1923.

173,851. ICE-CREAM PREPARATION IN LIQUID FORM. WILLIAM KLUG, Brooklyn, N. Y.
Filed January 17, 1923. Serial No. 174,696. PUBLISHED JULY 3, 1923.

173,852. CANNED FRUITS. OREGON GROWERS COOPERATIVE ASSOCIATION, Salem, Oreg.
Filed January 20, 1923. Serial No. 174,851. PUBLISHED JULY 3, 1923.

173,853. SAUSAGE AND SAUSAGE MEAT. KRANZ PROVISION CO., Washington, D. C.
Filed January 25, 1923. Serial No. 175,085. PUBLISHED JULY 3, 1923.

173,854. CANDIED POP CORN. THE MERCIER BROS., Concord, N. H.
Filed January 26, 1923. Serial No. 175,150. PUBLISHED JULY 3, 1923.

173,855. VEGETABLE AND MINERAL COMPOUND FOR NEUTRALIZING LACTIC ACIDS TO BE USED IN WHIPPING ORDINARY CREAM AND EGGS. JAMES HENRY LEWIS, doing business as Lewis Economic Co., not Inc., Chicago, Ill.
Filed January 29, 1923. Serial No. 175,253. PUBLISHED JULY 3, 1923.

173,856. CANDY. M. A. HASTY, Richmond, Ind.
Filed February 3, 1923. Serial No. 175,492. PUBLISHED JULY 3, 1923.

173,857. CANNED FRUITS. RAY-MALING CO., INC., Portland, Oreg.
Filed February 9, 1923. Serial No. 175,809. PUBLISHED JULY 3, 1923.

173,858. CANNED FRUITS, CANNED BERRIES, AND CANNED VEGETABLES. RAY-MALING CO., INC., Portland, Oreg.
Filed February 9, 1923. Serial No. 175,810. PUBLISHED JULY 3, 1923.

173,859. CANNED FRUITS AND CANNED BERRIES. RAY-MALING CO., INC., Portland, Oreg.
Filed February 9, 1923. Serial No. 175,812. PUBLISHED JULY 3, 1923.

173,860. JELLIES. VICTOR P. KENNARD, Greenland, N. H.
Filed February 16, 1923. Serial No. 176,130. PUBLISHED JULY 3, 1923.

173,861. CANDY. ELMER CANDY CO., INC., New Orleans, La.
Filed January 25, 1923. Serial No. 175,077. PUBLISHED JULY 3, 1923.

173,862. CERTAIN NAMED MEDICINAL PREPARATIONS. FARBWERKE VORM. MEISTER LUCIUS & BRUNING, Hochst-on-the-Main, Germany.
Filed January 25, 1923. Serial No. 175,078. PUBLISHED JULY 3, 1923.

173,863. CORSET STEELS. THE RITE FORM CORSET CO. INC., New York, N. Y.
Filed January 25, 1923. Serial No. 175,107. PUBLISHED JUNE 12, 1923.

173,864. WOMEN'S UNDERGARMENTS. HERMAN B. HOFFMAN, New York, N. Y.
Filed January 27, 1923. Serial No. 175,195. PUBLISHED JULY 10, 1923.

173,865. HOUSEHOLD AND OFFICE FURNITURE—NAMELY, DESKS, TABLES, CHINA CLOSETS, BUFFETS, MIRRORS, GATE-LEG AND CONSOLE TABLES. FRANCIS H. MILLER, doing business as Hagerstown Table Works, Hagerstown, Md.
Filed January 27, 1923. Serial No. 175,208. PUBLISHED MAY 29, 1923.

173,866. DRESSES AND WAISTS. THE POLLAK BROS. COMPANY, Fort Wayne, Ind.
Filed January 27, 1923. Serial No. 175,211. PUBLISHED JULY 10, 1923.

173,867. CANDY. ELMER CANDY CO., INC., New Orleans, La.
Filed January 25, 1923. Serial No. 175,229. PUBLISHED JULY 3, 1923.

173,868. HAIR DRESSING. THE DIAMOND LABORATORIES, INC., Seattle, Wash.
Filed March 1, 1923. Serial No. 176,791. PUBLISHED JUNE 12, 1923.

173,869. HOSIERY. UNITED HOSIERY MILLS CORPORATION, Chattanooga, Tenn.
Filed March 2, 1923. Serial No. 176,861. PUBLISHED JUNE 19, 1923.

173,870. BURNER DRUMS. THE CLEVELAND METAL PRODUCTS COMPANY, Cleveland, Ohio.
Filed March 5, 1923. Serial No. 176,951. PUBLISHED JUNE 19, 1923.

173,871. MATTRESSES. NEVER-STRETCH MATTRESS COMPANY, Philadelphia, Pa.
Filed February 6, 1923. Serial No. 175,616. PUBLISHED MAY 29, 1923.

173,872. LAUNDRY SOAP. WILLIAM CLUFF COMPANY, Wilmington, Del., and San Francisco, Calif.
Filed February 9, 1923. Serial No. 175,769. PUBLISHED JUNE 26, 1923.

173,873. HAND SOAP. PETER CIEPIELA, Fall River, Mass.
Filed February 10, 1923. Serial No. 175,850. PUBLISHED JUNE 5, 1923.

173,874. SHIRTS—NAMELY, DRESS, NEGLIGEE, AND WORK SHIRTS. ARTHUR HARTMAN, New York, N. Y.
Filed February 10, 1923. Serial No. 175,867. PUBLISHED JULY 10, 1923.

173,875. NECKTIES. STERN, MERRITT CO., INC., New York, N. Y.
Filed February 10, 1923. Serial No. 175,893. PUBLISHED JULY 10, 1923.

173,876. NECKTIES. STERN, MERRITT CO. INC., New York, N. Y.
Filed February 10, 1923. Serial No. 175,894. PUBLISHED JULY 10, 1923.

173,877. MONTHLY PERIODICAL. BETTER PICTURES PUBLISHING CO., Chicago, Ill.
Filed February 12, 1923. Serial No. 175,912. PUBLISHED JUNE 26, 1923.

173,878. BOX SPRINGS, MATTRESSES, AND PILLOWS. SCHULTZ & HIRSCH CO., Chicago, Ill.
Filed February 12, 1923. Serial No. 175,950. PUBLISHED MAY 29, 1923.

173,879. COMPOUND FOR CLEANING RUGS. JOSEPH J. SWAYNE, doing business as Jo-Lo Rug Cleaning Mfg. Co., Philadelphia, Pa.
Filed February 12, 1923. Serial No. 175,970. PUBLISHED JULY 10, 1923.

173,880. FRESH DECIDUOUS FRUITS. BRUCE THURBER SHUTE, Sacramento, Calif.
Filed February 17, 1923. Serial No. 176,221. PUBLISHED JULY 3, 1923.

173,881. PUBLICATION ISSUED EACH WEEK DURING THE SCHOOL YEAR. AMERICAN EDUCATION PRESS, INC., Columbus, Ohio.
Filed February 19, 1923. Serial No. 176,246. PUBLISHED JUNE 12, 1923.

173,882. CLEANING AND POLISHING COMBINATION FOR LEATHER GOODS. WILLIAM E. HARRIS, Asheville, N. C.
Filed February 17, 1923. Serial No. 176,180. PUBLISHED JULY 3, 1923.

173,883. SOAPS. PENNSYLVANIA SOAP COMPANY OF LANCASTER, PA., Lancaster, Pa.
Filed February 19, 1923. Serial No. 176,277. PUBLISHED JUNE 12, 1923.

173,884. TOILET SOAP. FLASH CHEMICAL COMPANY, Cambridge, Mass.
Filed February 20, 1923. Serial No. 176,334. PUBLISHED JUNE 12, 1923.

173,885. RUBBER BOOTS AND SHOES AND ARCTIC OVERSHOES. GOODYEAR RUBBER COMPANY, Middletown, Conn.
Filed February 20, 1923. Serial No. 176,337. PUBLISHED JULY 10, 1923.

173,886. SOAP. THE PALISADE MANUFACTURING COMPANY, Yonkers, N. Y.
Filed February 20, 1923. Serial No. 176,357. PUBLISHED JULY 10, 1923.

173,887. CANDY. PLANTERS NUT & CHOCOLATE COMPANY, Wilkes-Barre, Pa.
Filed February 24, 1923. Serial No. 176,568. PUBLISHED JULY 3, 1923.

173,888. WEEKLY MAGAZINE. THE PROGRESSIVE FARMER CO., Raleigh, N. C., and Birmingham, Ala.
Filed February 24, 1923. Serial No. 176,569. PUBLISHED JUNE 19, 1923.

173,889. CANDY. HARRY DILAS, doing business as The Arcadia, Bay City, Mich.
Filed February 28, 1923. Serial No. 176,731. PUBLISHED JULY 10, 1923.

173,890. CANDIES AND CANDIED FRUIT. MILLER & PAINE, INC., Lincoln, Nebr.
Filed February 28, 1923. Serial No. 176,750. PUBLISHED JULY 3, 1923.

173,891. CANNED CRAB MEAT. TAIYO TRADING CO., INC., New York, N. Y.
Filed February 28, 1923. Serial No. 176,760. PUBLISHED JULY 3, 1923.

173,892. SOPORIFIC. MERCK & CO., New York, N. Y.
Filed March 12, 1923. Serial No. 177,312. PUBLISHED JULY 10, 1923.

173,893. MEDICINAL PREPARATION FOR THE TREATMENT OF PNEUMONIA, FLU, COLDS, BRONCHITIS, AND TUBERCULOSIS. P. JOSEPH GILLEN, doing business as Mentho-Kreoamo Company, Clinton, Ill.
Filed March 12, 1923. Serial No. 177,294. PUBLISHED JULY 10, 1923.

173,894. LIQUID ANTISEPTIC DRINK FOR CHICKS. VERNON C. GETZ, doing business as The Wonderlay Company, Indianapolis, Ind.
Filed March 12, 1923. Serial No. 177,292. PUBLISHED JULY 10, 1923.

173,895. INSECTICIDE SPRAY (A CHEMICAL PREPARATION). INTERNATIONAL CHEMICAL COMPANY OF AMERICA, Wilmington, Del., and Washington, D. C.
Filed March 8, 1923. Serial No. 177,129. PUBLISHED JUNE 26, 1923.

173,896. HAIR NETS. ORIENTAL NOTIONS COMPANY, New York, N. Y.
Filed March 5, 1923. Serial No. 177,019. PUBLISHED JUNE 26, 1923.

173,897. HOSIERY. DALTON HOSIERY MILLS, Dalton, Ga.
Filed February 28, 1923. Serial No. 176,720. PUBLISHED JULY 10, 1923.

173,898. FINGER RING AND MAGNIFYING GLASSES. CARL M. WISEMAN, Louisville, Ky.
Filed February 23, 1923. Serial No. 176,520. PUBLISHED JULY 3, 1923.

173,899. CREAM TO BE APPLIED TO THE SKIN AS AN INSECT REPELLENT. FREDERICK G. SHAW, Brooklyn, N. Y.
Filed February 23, 1923. Serial No. 176,505. PUBLISHED JULY 10, 1923.

173,900. HAIR TONICS. VINCENT M. CORSO, doing business as The Hare Manufacturing Company, Hartford, Conn.
Filed February 23, 1923. Serial No. 176,454. PUBLISHED JULY 10, 1923.

173,901. ARTIFICIALLY-PREPARED MINERAL WATER. JESSE A. STEELE, doing business as Steele Bros., Oakland, Calif.
Filed February 19, 1923. Serial No. 176,292. PUBLISHED JULY 3, 1923.

173,902. COUGH MIXTURE. STOLZ BROS-DAVIS COMPANY INCORPORATED, Syracuse, N. Y.
Filed February 17, 1923. Serial No. 176,227. PUBLISHED JULY 10, 1923.

173,903. VEGETABLE COMPOUND AND SYSTEM BLOOD PURIFIER. WM. T. HUBSH & CONN, Mansfield, Ohio.
Filed February 17, 1923. Serial No. 176,185. PUBLISHED JULY 10, 1923.

173,904. STEEL SHEETS, BLACK AND GALVANIZED AND TERNE, COATED OR PAINTED, ALSO STEEL BARS, PLATES, AND BLUE ANNEALED. ROY G. HIRD, doing business as Garley Steel Company, Chicago, Ill.
Filed February 16, 1923. Serial No. 176,127. PUBLISHED JULY 3, 1923.

173,905. LYE. PENNSYLVANIA SALT MANUFACTURING COMPANY, Philadelphia, Pa.
Filed February 15, 1923. Serial No. 176,097. PUBLISHED JULY 10, 1923.

173,906. LYE. PENNSYLVANIA SALT MANUFACTURING COMPANY, Philadelphia, Pa.
Filed February 15, 1923. Serial No. 176,096. PUBLISHED JULY 10, 1923.

173,907. LYE. PENNSYLVANIA SALT MANUFACTURING COMPANY, Philadelphia, Pa.
Filed February 15, 1923. Serial No. 176,095. PUBLISHED JULY 10, 1923.

173,908. FACE CREAM. INECTO INCORPORATION, New York, N. Y.
Filed February 13, 1923. Serial No. 175,990. PUBLISHED JULY 10, 1923.

173,909. SHIRTS — NAMELY, DRESS, NEGLIGEE, AND WORK SHIRTS. ARTHUR HARTMAN, New York, N. Y.
Filed February 10, 1923. Serial No. 175,868. PUBLISHED JULY 10, 1923.

173,910. SHIRTS — NAMELY, DRESS, NEGLIGEE, AND WORK SHIRTS. ARTHUR HARTMAN, New York, N. Y.
Filed February 10, 1923. Serial No. 175,866. PUBLISHED JULY 10, 1923.

173,911. WEARING APPAREL FOR WOMEN AND CHILDREN, COMPRISING ONE, TWO, AND THREE PIECE WASH AND SILK DRESSES; COATS; SILK, COTTON, AND WOOL UNDERWEAR, SAID UNDERWEAR BEING BOTH OF KNITTED AND TEXTILE FABRIC; AND SILK GLOVES. CHILDS SPECIALTY HOUSE, Union City, Tenn.
Filed February 10, 1923. Serial No. 175,849. PUBLISHED JULY 10, 1923.

173,912. MOTOR SALTZ (A MOTOR ENERGIZER). BONNIE ROLAND CASWELL, Wilmington, Del.
Filed January 30, 1923. Serial No. 175,298. PUBLISHED JULY 10, 1923.

173,913. CERTAIN NAMED DRAWING INSTRUMENTS. EUGENE DIETZGEN CO., Chicago, Ill.
Filed January 26, 1923. Serial No. 175,136. PUBLISHED JULY 3, 1923.

173,914. KNITTED BATHING SUITS. BLUE-RIBBON KNITTING MILLS, INC., Waltham, Mass.
Filed January 25, 1923. Serial No. 175,063. PUBLISHED JULY 10, 1923.

173,915. MEN'S WORKING PANTS, OVERALLS, JUMPERS, AND WORK SHIRTS AND CHILDREN'S OVERALLS AND ROMPERS. THE STANDARD TENT & AWNING COMPANY, doing business as The Standard Garment Company, Toledo, Ohio.
Filed January 22, 1923. Serial No. 174,943. PUBLISHED JULY 10, 1923.

173,916. FRYING PANS, SAUCE PANS, STOCK POTS, KETTLES, ROASTING PANS, BAKING DISHES, LADLES, BEATING BOWLS, ETC. NICKEL FABRICATING CORP., Philipsburg, Pa.
Filed January 22, 1923. Serial No. 174,908. PUBLISHED JULY 3, 1923.

173,917. PACKAGE OUTFIT CONTAINING CERTAIN-NAMED NOTIONS. LEO H. FELDMAN, New York, N. Y.
Filed January 12, 1923. Serial No. 174,517. PUBLISHED JULY 10, 1923.

173,918. OIL-WELL MACHINERY AND TOOLS—NAMELY, ROTARIES, DRAW WORK, CROWN BLOCKS, TRAVELING BLOCKS, TOOL JOINTS, SWIVELS, AND FITTINGS. BOYKIN MACHINERY & SUPPLY CO., Beaumont, Tex.
Filed January 2, 1923. Serial No. 174,062. PUBLISHED JULY 3, 1923.

173,919. COLLARS FOR SHIRTS. GEO. P. IDE & CO., INC., Troy, N. Y.
Filed December 30, 1922. Serial No. 174,012. PUBLISHED JULY 10, 1923.

173,920. SCREEN SCRATCHER AND RUBBER FOR USE IN PLANTS FOR MAKING BRICKS AND TILES OR OTHER CLAY PRODUCTS. MARION LEWIS CRAWFORD, Malvern, Ohio.
Filed December 26, 1922. Serial No. 173,813. PUBLISHED JULY 3, 1923.

173,921. MEN'S AND BOYS' DRESS, NEGLIGEE, AND WORK SHIRTS, PYJAMAS, AND NIGHTSHIRTS. TAUBER LIPTON & COMPANY, INC., New York, N. Y.
Filed December 20, 1922. Serial No. 173,612. PUBLISHED JULY 10, 1923.

173,922. EGG BEATERS. THE TURNER & SEYMOUR MANUFACTURING CO., Torrington, Conn.
Filed April 4, 1923. Serial No. 178,580. PUBLISHED JULY 10, 1923.

173,923. CANNED FRUITS AND VEGETABLES. J. F. BUTTS CO., San Francisco, Calif.
Filed April 4, 1923. Serial No. 178,551. PUBLISHED JULY 17, 1923.

173,924. CANNED FISH. ALTOONA PACKING COMPANY, Astoria, Oreg.
Filed April 4, 1923. Serial No. 178,542. PUBLISHED JULY 17, 1923.

173,925. AUTOMATIC PNEUMATIC WATER-SUPPLY SYSTEM. WILLIAM E. DICKEY, Seneca Falls, N. Y.
Filed April 2, 1923. Serial No. 178,433. PUBLISHED JULY 10, 1923.

173,926. TEA PUT UP IN TEA BALLS. THE FANTEA COMPANY, Brooklyn, N. Y.
Filed March 30, 1923. Serial No. 178,335. PUBLISHED JULY 17, 1923.

173,927. EDUCATIONAL APPLIANCES EMBRACING CABINETS WITHIN WHICH ARE DISPOSED RADIORECEIVERS, MOTION-PICTURE PROJECTORS, AS WELL AS PHONOGRAPHS AND MOTION-PICTURE FILMS. RADIO MOTION PICTURE PHON. CORP., Fall River, Mass., and Long Island City, N. Y.
Filed March 29, 1923. Serial No. 178,282. PUBLISHED JULY 10, 1923.

173,928. TURBINES AND REDUCTION GEARS. KERR TURBINE CO., Wellsville, N. Y.
Filed March 24, 1923. Serial No. 177,978. PUBLISHED JULY 10, 1923.

173,929. COTTON AND WOOLEN PIECE GOODS AND PIECE GOODS OF MIXED COTTON AND WOOL. ATLANTIC MILLS, Stottville, N. Y.
Filed March 24, 1923. Serial No. 177,947. PUBLISHED JULY 17, 1923.

173,930. WOOLEN PIECE GOODS. ATLANTIC MILLS, Stottville, N. Y.
Filed March 24, 1923. Serial No. 177,946. PUBLISHED JULY 17, 1923.

173,931. CANNED FRUIT AND VEGETABLES AND DRIED FRUIT. BARRON-GRAY PACKING CO., San Jose, Calif.
Filed March 22, 1923. Serial No. 177,818. PUBLISHED JULY 17, 1923.

173,932. BRUSHES OF VARIOUS KINDS. MCKESSON & ROBBINS INC., New York, N. Y.
Filed March 15, 1923. Serial No. 177,502. PUBLISHED JULY 17, 1923.

173,933. PREPARED MUSTARD, VINEGAR, TOMATO CATCHUP, PEANUT BUTTER, COFFEE, AND CANNED FRUITS AND VEGETABLES—NAMELY, PEACHES, CORN, TOMATOES, AND CANNED SAUERKRAUT. ARBACES B. GRAY, doing business as A. B. Gray Company, Sullivan, Ind.
Filed March 15, 1923. Serial No. 177,485. PUBLISHED JULY 17, 1923.

173,934. CAKE BEATERS AND MIXERS. JOHN A. SWOPE, Jr., doing business as Human Hand Cake Beater Co., Union Deposit, Pa.
Filed March 12, 1923. Serial No. 177,333. PUBLISHED JULY 17, 1923.

173,935. PUMPS. UNCHOKEABLE PUMP, LIMITED, London, England.
Filed March 10, 1923. Serial No. 177,252. PUBLISHED JULY 10, 1923.

173,936. CARD GAME. ERNEST G. SLOMAN, San Francisco, Calif.
Filed March 8, 1923. Serial No. 177,143. PUBLISHED JULY 17, 1923.

173,937. BATHING CAPES. CHESAPEAKE WEAVING MILLS, INC., Havre de Grace, Md., and Philadelphia, Pa.
Filed March 8, 1923. Serial No. 177,121. PUBLISHED JULY 17, 1923.

173,938. BRASS TUBES, COPPER TUBES, LOW-BRASS SEAMLESS TUBES, COPPER SEAMLESS TUBES, CONDENSER TUBES, BRAZED BRASS AND COPPER TUBES, AND NICKEL-SILVER SEAMLESS TUBES. ANACONDA COPPER MINING COMPANY, New York, N. Y.
Filed March 7, 1923. Serial No. 177,062. PUBLISHED JULY 10, 1923.

173,939. RULES, FOLDING RULES, AND EXTENSION RULES. MASTER RULE MFG. CO. INC., New York, N. Y.
Filed March 6, 1923. Serial No. 177,044. PUBLISHED JULY 10, 1923.

173,940. SHOES OF LEATHER AND OF LEATHER AND RUBBER. LORD & TAYLOR, New York, N. Y.
Filed February 23, 1923. Serial No. 176,486. PUBLISHED JULY 17, 1923.

173,941. BASEBALL BATS. HILLERICH & BRADSBY CO., INC., Louisville, Ky.
Filed May 10, 1923. Serial No. 180,432. PUBLISHED JULY 10, 1923.

173,942. LADIES' COTTON KNIT UNDERWEAR. JEROME L. MILLER, doing business as J. L. Miller Knitting Mill, Hazleton, Pa.
Filed April 30, 1923. Serial No. 179,946. PUBLISHED JULY 17, 1923.

173,943. BASEBALL BATS. HILLERICH & BRADSBY CO., INC., Louisville, Ky.
Filed May 10, 1923. Serial No. 180,431. PUBLISHED JULY 10, 1923.

173,944. SOFT DRINK. EDWIN E. CARNEAL, New Orleans, La.
Filed April 19, 1923. Serial No. 179,354. PUBLISHED JULY 10, 1923.

173,945. PRESERVED FRUIT. KEYSTONE FRUIT PRODUCTS COMPANY, Cincinnati, Ohio.
Filed March 17, 1923. Serial No. 177,607. PUBLISHED JULY 17, 1923.

173,946. ONIONS IN THEIR NATURAL STATE. WILLIAM R. WEDRICK, Silver Lake, Ind.
Filed March 23, 1923. Serial No. 177,941. PUBLISHED JULY 17, 1923.

173,947. MALT SIRUP. M. ZIGELMAN, St. Louis, Mo.
Filed March 26, 1923. Serial No. 178,083. PUBLISHED JULY 10, 1923.

173,948. CANDY BAR. HOFFMAN CANDY CO., Cleveland, Ohio.
Filed March 30, 1923. Serial No. 178,343. PUBLISHED JULY 17, 1923.

173,949. COFFEE. GEORGE C. BUELL & CO. INC., Rochester, N. Y.
Filed April 9, 1923. Serial No. 178,819. PUBLISHED JULY 17, 1923.

173,950. FRESH CITROUS FRUITS. THE RICHARDSON-MARSH CORPORATION, Orlando, Fla.
Filed April 9, 1923. Serial No. 178,867. PUBLISHED JULY 17, 1923.

173,951. MALT EXTRACT. OTTO THOMA, doing business as Columbia Products Company, St. Louis, Mo.
Filed April 16, 1923. Serial No. 179,241. PUBLISHED JULY 10, 1923.

173,952. MALT BEVERAGE. S. LIEBMANN'S SONS, INC., Brooklyn, N. Y.
Filed January 31, 1923. Serial No. 175,360. PUBLISHED JULY 10, 1923.

173,953. SOFT DRINK. SETHNESS COMPANY, Chicago, Ill.
Filed February 7, 1923. Serial No. 175,681. PUBLISHED JULY 10, 1923.

173,954. CIGARS AND SMOKING TOBACCO. JOSEPH FARFAGLIA & CO., Canastota, N. Y.
Filed February 26, 1923. Serial No. 176,611. PUBLISHED JULY 10, 1923.

173,955. GOLF CLUBS. ALLIED GOLF COMPANY, Chicago, Ill.
Filed September 11, 1922. Serial No. 169,272. PUBLISHED JULY 10, 1923.

173,956. TOOTHBRUSHES. GEO. R. GIBSON CO., New York, N. Y.
Filed June 21, 1922. Serial No. 165,791. PUBLISHED JULY 10, 1923.

173,957. ELECTRICAL TOYS. THE LIONEL CORPORATION, New York, N. Y.
Filed April 29, 1922. Serial No. 163,099. PUBLISHED JULY 10, 1923.

173,958. SHOTGUNS. J. STEVENS ARMS COMPANY, New York, N. Y.
Filed February 10, 1922. Serial No. 159,189. PUBLISHED JULY 17, 1923.

173,959. MALT EXTRACTS. HARRISON D. STERRICK, doing business as Diamond Food Products Company and National Food Corporation, Pittsburgh, Pa.
Filed November 2, 1921. Serial No. 154,939. PUBLISHED JULY 10, 1923.

173,960. OUTER SKIRTS. FLORABELLE DRESSMAKERS, INC., New York, N. Y.
Filed October 28, 1922. Serial No. 171,310. PUBLISHED JULY 17, 1923.

173,961. MEN'S DRESS AND NEGLIGEE SHIRTS. THE FESSENDEN SHIRT CO., INC., Kingston, N. Y.
Filed November 2, 1922. Serial No. 171,491. PUBLISHED JULY 17, 1923.

173,962. PNEUMATIC VALVES, VALVE TOOLS, AND ACCESSORIES. A. SCHRADER'S SON, INCORPORATED, Brooklyn, N. Y.
Filed November 2, 1922. Serial No. 171,512. PUBLISHED JULY 10, 1923.

173,963. FRESH BOXED APPLES. ROBT. J. GRAHAM, Cashmere, Wash.
Filed November 3, 1922. Serial No. 171,536. PUBLISHED JULY 17, 1923.

173,964. ALUMINUM TEAPOTS. THE TEBBETTS AND GARLAND STORE, Chicago, Ill.
Filed November 4, 1922. Serial No. 171,599. PUBLISHED JULY 10, 1923.

173,965. ALUMINUM PERCOLATORS. THE TEBBETTS AND GARLAND STORE, Chicago, Ill.
Filed November 4, 1922. Serial No. 171,600. PUBLISHED JULY 10, 1923.

173,966. CERTAIN NAMED TOILET PREPARATIONS. BERNARD B. FORQUER, doing business as Movie Stars Laboratories, Joliet, Ill.
Filed February 27, 1922. Serial No. 159,862. PUBLISHED JULY 17, 1923.

173,967. CERTAIN TABLE LINEN. FREDERICK W. HILLIG, doing business as F. W. Hillig Co., New York, N. Y.
Filed March 31, 1922. Serial No. 161,549. PUBLISHED JULY 17, 1923.

173,968. GOODS IN THE PIECE MAKING UP HOUSEHOLD FURNISHINGS. FREDERICK W. HILLIG, doing business as F. W. Hillig Co., New York, N. Y.
Filed March 31, 1922. Serial No. 161,550. PUBLISHED JULY 17, 1923.

173,969. RENOVATING, CLEANING, AND METAL-POLISHING PREPARATIONS. THE POM CHEMICAL CO., INC., Lebanon, Pa.
Filed August 11, 1922. Serial No. 168,124. PUBLISHED MAY 15, 1923.

173,970. CERTAIN NAMED TOILET PREPARATIONS. MARGARET C. MURPHY, doing business as Margueritte Laboratories, Evanston, Ill.
Filed August 18, 1922. Serial No. 168,426. PUBLISHED JULY 17, 1923.

173,971. CANDY. HUYLER'S, New York, N. Y.
Filed October 25, 1922. Serial No. 171,172. PUBLISHED JULY 17, 1923.

173,972. FAUCETS, COCKS, FITTINGS FOR METAL BARRELS OF THE DRUM TYPE, AND METAL PIPE FITTINGS. WALTER C. GROSSER, doing business as Grosser Mfg. Co., Cleveland, Ohio.
Filed November 27, 1922. Serial No. 172,592. PUBLISHED JULY 10, 1923.

173,973. FUR COATS, WRAPS, CAPES, AND NECK PIECES—NAMELY, STOLES AND SCARFS. HARRY USWALD, Brooklyn, N. Y.
Filed November 18, 1921. Serial No. 155,576. PUBLISHED JULY 17, 1923.

173,974. UNIFORMS—NAMELY, DRESSES, APRONS, OPERATING-ROOM GOWNS, CAPS, BIBS, COLLARS, CUFFS, HOODS; SHOES MADE OF LEATHER, RUBBER, FABRIC, LEATHER AND RUBBER, LEATHER AND FABRIC, RUBBER AND FABRIC, AND COMBINATIONS THEREOF. CHARLES D. RANDLES, doing business as Randles Mfg. Company, Ogdensburg, N. Y.
Filed February 4, 1922. Serial No. 158,895. PUBLISHED JULY 17, 1923.

173,975. UNDERWEAR—NAMELY, BRASSIÈRES. R. & R. UNDERWEAR, New York, N. Y.
Filed November 14, 1922. Serial No. 172,013. PUBLISHED JULY 17, 1923.

173,976. WOMEN'S WEARING APPAREL—NAMELY, FROCKS, GOWNS, BLOUSES, OUTER SKIRTS, COATS, WRAPS, AND CAPES. A. H. FLANDERS COMPANY, Chicago, Ill.
Filed November 20, 1922. Serial No. 172,269. PUBLISHED JULY 17, 1923.

173,977. CANDY. NATIONAL CANDY COMPANY, doing business as Peckham Candy Factory, St. Louis, Mo., assignor to National Confectioners Association of the United States, Chicago, Ill.
Filed November 25, 1922. Serial No. 172,549. PUBLISHED JULY 17, 1923.

173,978. POTATOES AND HEAD LETTUCE. JOHNSON, YOUNG & HAMILTON, Parma, Idaho.
Filed November 11, 1922. Serial No. 171,849. PUBLISHED JULY 17, 1923.

173,979. MEN'S AND YOUNG MEN'S OUTER CLOTHING—NAMELY, SUITS. THE J. L. HUDSON CO., Detroit, Mich.
Filed November 11, 1922. Serial No. 171,846. PUBLISHED JULY 17, 1923.

173,980. CERTAIN NAMED MEDICINAL PREPARATIONS. MEDOC DISTRIBUTING COMPANY, New York, N. Y.
Filed February 18, 1921. Serial No. 143,773. PUBLISHED JULY 17, 1923.

173,981. WOVEN COTTON FABRICS IN THE PIECE. GEORGE A. STAFFORD, doing business as G. A. Stafford & Co., New York, N. Y.
Filed August 2, 1920. Serial No. 135,737. PUBLISHED JULY 17, 1923.

173,982. SODA WATER. WILLIAM P. COURTNEY, doing business as Courtney's Red Top Soda Water Co., Oakland, Calif.
Filed May 24, 1923. Serial No. 181,062. PUBLISHED JULY 10, 1923.

173,983. BASEBALL BATS. HILLERICH & BRADSBY CO., INC., Louisville, Ky.
Filed May 10, 1923. Serial No. 180,434. PUBLISHED JULY 10, 1923.

173,984. BASEBALL BATS. HILLERICH & BRADSBY CO., INC., Louisville, Ky.
Filed May 10, 1923. Serial No. 180,433. PUBLISHED JULY 10, 1923.

173,985. CANDY. ANNA D. FLYNN, Beach Bluff, Mass.
Filed April 5, 1923. Serial No. 178,601. PUBLISHED JULY 17, 1923.

173,986. SHAMPOO CREAM. MARY B. HORNER, doing business as H. & H. Products Company, Atlanta, Ga.
Filed April 5, 1923. Serial No. 178,613. PUBLISHED JULY 17, 1923.

173,987. MEDICINAL PREPARATION USED IN THE TREATMENT OF DIABETES. ARMOUR AND COMPANY, Chicago, Ill.
Filed April 7, 1923. Serial No. 178,702. PUBLISHED JULY 17, 1923.

173,988. DENTIFRICE IN POWDER FORM. MICHAEL W. KENT, doing business as Kent Company, Kansas City, Mo.
Filed April 7, 1923. Serial No. 178,724. PUBLISHED JULY 17, 1923.

173,989. SOFT DRINK. J. F. LAZIER MFG. CO., St. Louis, Mo.
Filed April 7, 1923. Serial No. 178,745. PUBLISHED JULY 17, 1923.

173,990. PHOTOGRAPHIC FILMS. ANSCO COMPANY, Binghamton, N. Y.
Filed April 9, 1923. Serial No. 178,797. PUBLISHED JULY 10, 1923.

173,991. PHOTOGRAPHIC FILMS. ANSCO COMPANY, Binghamton, N. Y.
Filed April 9, 1923. Serial No. 178,798. PUBLISHED JULY 10, 1923.

173,992. PHOTOGRAPHIC FILMS. ANSCO COMPANY, Binghamton, N. Y.
Filed April 9, 1923. Serial No. 178,799. PUBLISHED JULY 10, 1923.

173,993. PHOTOGRAPHIC FILMS. ANSCO COMPANY, Binghamton, N. Y.
Filed April 9, 1923. Serial No. 178,800. PUBLISHED JULY 10, 1923.

173,994. PHOTOGRAPHIC FILMS. ANSCO COMPANY, Binghamton, N. Y.
Filed April 9, 1923. Serial No. 178,801. PUBLISHED JULY 10, 1923.

173,995. PHOTOGRAPHIC FILMS. ANSCO COMPANY, Binghamton, N. Y.
Filed April 9, 1923. Serial No. 178,802. PUBLISHED JULY 10, 1923.

173,996. PHOTOGRAPHIC FILMS. ANSCO COMPANY, Binghamton, N. Y.
Filed April 9, 1923. Serial No. 178,803. PUBLISHED JULY 10, 1923.

173,997. PHOTOGRAPHIC FILMS. ANSCO COMPANY, Binghamton, N. Y.
Filed April 9, 1923. Serial No. 178,804. PUBLISHED JULY 10, 1923.

173,998. SHOES OF LEATHER AND FABRIC AND COMBINATIONS THEREOF. MAJESTIC SHOE COMPANY, New York, N. Y.
Filed February 21, 1923. Serial No. 176,412. PUBLISHED JULY 17, 1923.

173,999. SALT. BEVIS ROCK SALT CO., Kansas City, Mo., and Lyons, Kans.
Filed February 16, 1923. Serial No. 176,111. PUBLISHED JULY 17, 1923.

174,000. SALT. BEVIS ROCK SALT CO., Kansas City, Mo., and Lyons, Kans.
Filed February 16, 1923. Serial No. 176,110. PUBLISHED JULY 17, 1923.

174,001. SALT. BEVIS ROCK SALT CO., Kansas City, Mo., and Lyons, Kans.
Filed February 16, 1923. Serial No. 176,109. PUBLISHED JULY 17, 1923.

174,002. BIOTHERAPEUTIC AND OPOTHERAPEUTIC PRODUCTS IN AMPOULE AND PILL FORM. ALFRED B. ADAMS, New York, N. Y.
Filed February 14, 1923. Serial No. 176,008. PUBLISHED JULY 17, 1923.

174,003. WOVEN COTTON FABRICS, INCLUDING COTTON FLANNELS. ROANOKE MILLS COMPANY, Roanoke Rapids, N. C.
Filed February 2, 1923. Serial No. 175,439. PUBLISHED JULY 17, 1923.

174,004. A CERTAIN NAMED MEDICINAL PREPARATION. TANNER & POINDEXTER, Atlanta, Ga.
Filed January 29, 1923. Serial No. 175,276. PUBLISHED JULY 17, 1923.

174,005. COTTON PIECE GOODS. AFRICAN & EASTERN TRADING CO., INC., New York, N. Y.
Filed January 29, 1923. Serial No. 175,230. PUBLISHED JULY 17, 1923.

174,006. SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS FOR MEN, WOMEN, AND CHILDREN. ROBT. J. SADLER SHOE CO. INCORPORATED, New York, N. Y.
Filed January 23, 1923. Serial No. 174,978. PUBLISHED JULY 17, 1923.

174,007. CANDIES. THE PETERKIN COMPANY, Baltimore, Md.
Filed January 11, 1923. Serial No. 174,485. PUBLISHED JULY 17, 1923.

174,008. COMBINED COLORING AND FLAVORING FOR USE IN FOOD PRODUCTS AND CONFECTIONERY AND ICE CREAM. B. HELLER & COMPANY, Chicago, Ill.
Filed January 8, 1923. Serial No. 174,304. PUBLISHED JULY 17, 1923.

174,009. RADIOACTIVE RECONSTITUENT CONTAINING GLYCEROPHOSPHATES OF CALCIUM, IRON, MAGNESIUM, AND SODIUM AND MESOTHORIUM BROMIDE. A. GAZZONI & C. IL GERENTE, Bologna, Italy.
Filed December 16, 1922. Serial No. 173,385. PUBLISHED JULY 17, 1923.

174,010. INSECTICIDE FOR KILLING MOTHS AND CARPET BEETLES. B. HELLER & COMPANY, Chicago, Ill.
Filed January 8, 1923. Serial No. 174,301. PUBLISHED JULY 17, 1923.

174,011. LEATHER SHOES. DUGAN & HUDSON CO., Rochester, N. Y.
Filed February 6, 1923. Serial No. 175,599. PUBLISHED JULY 10, 1923.

174,012. MONTHLY MAGAZINE. JAMES W. BELL & CO., Chicago, Ill.
Filed February 6, 1923. Serial No. 175,594. PUBLISHED JUNE 12, 1923.

174,013. HOSIERY AND GARTERS. HOWARD HOSE AND GARTER MFG. CO., Los Angeles, Calif.
Filed February 5, 1923. Serial No. 175,557. PUBLISHED JULY 10, 1923.

174,014. CLEANSER FOR ALL KINDS OF FINISHED SURFACES, SUCH AS PAINT, VARNISH, TILE, GLASS, ETC. JOS. G. BAKER, Richmond, Va.
Filed February 3, 1923. Serial No. 175,458. PUBLISHED JUNE 5, 1923.

174,015. PRINTED BOOKS AND THEIR COMPONENT PARTS PUBLISHED FROM TIME TO TIME. JOSEPH RICHARDS COMPANY, INC., New York, N. Y.
Filed February 1, 1923. Serial No. 175,407. PUBLISHED JUNE 26, 1923.

174,016. KIMONOS, BATH ROBES, PETTICOATS, APRONS, AND FLANNEL GOWNS. JOSEPH BROS., doing business as United Kimono Co., New York, N. Y.
Filed February 1, 1923. Serial No. 175,398. PUBLISHED JULY 10, 1923.

174,017. PRINTED ARTICLES AND LETTERS UPON THE SUBJECT OF SALESMANSHIP. WILLIAMSON L. BARNHART, New York and Babylon, N. Y.
Filed February 1, 1923. Serial No. 175,379. PUBLISHED JUNE 12, 1923.

174,018. LEATHER PRESERVATIVES. GEORGE L. REISH, Mifflinburg, Pa., assignor to Robert V. Foster, Mifflinburg, Pa.
Filed January 30, 1923. Serial No. 175,324. PUBLISHED JULY 3, 1923.

174,019. INSECTICIDE. D. V. BURRELL, doing business as The Rocky Ford Melon Growers Spray Manufacturing Co., Rocky Ford, Colo.
Filed January 30, 1923. Serial No. 175,297. PUBLISHED JULY 3, 1923.

174,020. SOAP. TAUNTON ELECTRO-CHEMICAL COMPANY, Taunton, Mass.
Filed January 29, 1923. Serial No. 175,277. PUBLISHED JULY 3, 1923.

174,021. A CERTAIN NAMED MEDICINAL PREPARATION. BERTHORN CHEMICAL CO., New York, N. Y.
Filed February 20, 1923. Serial No. 176,320. PUBLISHED JUNE 19, 1923.

174,022. ANTISEPTIC, ASTRINGENT, AND DEODORIZING LOTION FOR THE MUCOUS MEMBRANE AND SKIN. CALCIUM PRODUCTS, INCORPORATED, Chicago, Ill., assignor to Pepsodent Company, a Corporation of Illinois.
Filed February 20, 1923. Serial No. 176,322. PUBLISHED JUNE 19, 1923.

174,023. YARNS FOR KNITTING, CROCHETING, AND ART NEEDLEWORK. BERNHARD ULMANN CO. INC., New York, N. Y.
Filed February 20, 1923. Serial No. 176,376. PUBLISHED JUNE 12, 1923.

174,024. DISINFECTANTS. BRITEX CHEMICAL PRODUCTS LIMITED, London, England.
Filed February 21, 1923. Serial No. 176,397. PUBLISHED JUNE 19, 1923.

174,025. MOUTH-WASH PREPARATION. PYRAID PRODUCTS CORPORATION, Newark, N. J.
Filed February 21, 1923. Serial No. 176,428. PUBLISHED JUNE 19, 1923.

174,026. PILE FABRIC IN THE PIECE. S. STROOCK & COMPANY, INC., New York, N. Y.
Filed February 21, 1923. Serial No. 176,434. PUBLISHED JUNE 19, 1923.

174,027. COTTON PIECE GOODS. JOSEPH BANCROFT & SONS COMPANY, Wilmington, Del.
Filed February 23, 1923. Serial No. 176,440. PUBLISHED JUNE 19, 1923.

174,028. YARNS. PACIFIC MILLS, Lawrence and Boston, Mass.
Filed February 23, 1923. Serial No. 176,499. PUBLISHED JUNE 19, 1923.

174,029. SALVE. BROOKS CHEMICAL CO., New Cumberland, W. Va.
Filed February 26, 1923. Serial No. 176,590. PUBLISHED JUNE 19, 1923.

174,030. WOVEN MESH FABRICS MADE OF A COTTON WARP WITH A COTTON YARN FILLING, ALSO MADE OF A COTTON WARP WITH A SILK YARN FILLING, ALSO MADE OF SILK WARP WITH SILK FILLING. JOHN HOLLBACH COMPANY, Paterson, N. J.
Filed February 26, 1923. Serial No. 176,628. PUBLISHED JUNE 12, 1923.

174,031. OLIVE OIL AND CANNED FRUITS AND VEGETABLES. THE MOUQUIN RESTAURANT AND WINE COMPANY, LIMITED, New York, N. Y.
Filed February 27, 1923. Serial No. 176,687. PUBLISHED JUNE 19, 1923.

174,032. LAUNDRY BLUE. THE STANDARD ULTRAMARINE CO., Huntington, W. Va.
Filed February 27, 1923. Serial No. 176,699. PUBLISHED JUNE 19, 1923.

174,033. FLORAL ANTISEPTIC HAIR TONIC. GEORGE W. MERRITT COMPANY, INC., Norfolk, Va.
Filed February 28, 1923. Serial No. 176,748. PUBLISHED JUNE 19, 1923.

174,034. ANTISEPTIC HAIR GROWER. GEORGE W. MERRITT COMPANY, INC., Norfolk, Va.
Filed February 28, 1923. Serial No. 176,749. PUBLISHED JUNE 19, 1923.

174,035. ROUGE. ROSS COMPANY, New York, N. Y.
Filed February 28, 1923. Serial No. 176,763. PUBLISHED JUNE 19, 1923.

174,036. HOSIERY. DAVID WALLACH, doing business as Union Hosiery Company, New York, N. Y.
Filed February 28, 1923. Serial No. 176,772. PUBLISHED JUNE 19, 1923.

174,037. CERTAIN NAMED MEDICINAL PREPARATION. STANDARD DRUG COMPANY, Los Angeles, Calif.
Filed February 19, 1923. Serial No. 176,290. PUBLISHED JUNE 19, 1923.

174,038. PERFUME, TOILET WATER, FACE POWDER, TALCUM POWDER, SACHET, BRILLIANTINE, FACE CREAM, LOTION FOR THE SKIN AND HAIR, AND ROUGE. HOUBIGANT, INC., New York, N. Y.
Filed March 13, 1923. Serial No. 177,379. PUBLISHED JULY 10, 1923.

174,039. YARN. CARROLL D. NEWELL, New York, N. Y.
Filed March 13, 1923. Serial No. 177,420. PUBLISHED JULY 17, 1923.

174,040. MEDICINE FOR TREATMENT OF INGROWING TOENAILS. L & W MFG. COMPANY, Vincennes, Ind.
Filed March 14, 1923. Serial No. 177,445. PUBLISHED JULY 10, 1923.

174,041. A MEDICINAL TONIC. WILLIAM H. MATHEWS, doing business as The Mathews Medical Company, San Francisco, Calif.
Filed March 14, 1923. Serial No. 177,447. PUBLISHED JULY 10, 1923.

174,042. KIDNEY AND BLADDER PILLS. STEPHENS-BRADLEY COMPANY, Lindale, Ga.
Filed March 14, 1923. Serial No. 177,462. PUBLISHED JULY 10, 1923.

174,043. WATERPROOF AND ANTISEPTIC PREPARATION FOR THE TREATMENT OF CUTS, CRACKS, AND ABRASIONS OF THE SKIN. H. & S. PRODUCTS CO., Millville, N. J.
Filed March 15, 1923. Serial No. 177,487. PUBLISHED JULY 10, 1923.

174,044. PREPARATION FOR THE PREVENTION OF EXCESSIVE PERSPIRATION. SAN-I-SAL LABORATORIES, INC., Washington, D. C.
Filed March 15, 1923. Serial No. 177,519. PUBLISHED JULY 10, 1923.

174,045. A CERTAIN NAMED MEDICINAL PREPARATION. FIRST TEXAS CHEMICAL MANUFACTURING COMPANY, Dallas, Tex.
Filed March 17, 1923. Serial No. 177,598. PUBLISHED JULY 10, 1923.

174,046. PREPARATION FOR NEURALGIA AND HEADACHE. WARREN P. RASH CO., INC., Middlesboro, Ky.
Filed March 17, 1923. Serial No. 177,621. PUBLISHED JULY 10, 1923.

174,047. A CERTAIN NAMED MEDICINAL PREPARATION. VITA-SULPHUR COMPANY, Chicago, Ill.
Filed March 17, 1923. Serial No. 177,639. PUBLISHED JULY 10, 1923.

174,048. SHAMPOO PREPARATION TO HELP KEEP THE HAIR AND SCALP IN A CLEAN HYGIENIC NATURAL CONDITION. DEARBORN SUPPLY COMPANY, Chicago, Ill.
Filed March 19, 1923. Serial No. 177,656. PUBLISHED JULY 10, 1923.

174,049. CERTAIN NAMED TOILET PREPARATION. DEARBORN SUPPLY COMPANY, Chicago, Ill.
Filed March 19, 1923. Serial No. 177,657. PUBLISHED JULY 10, 1923.

174,050. RADIATOR CEMENT. FRITZ RADIATOR CEMENT CO., Rhineland, Mo.
Filed March 19, 1923. Serial No. 177,663. PUBLISHED JULY 10, 1923.

174,051. ROACH-DESTROYING COMPOSITION. WILLIAM SCHILPLIN, doing business as R. & H. E. Co., Seattle, Wash.
Filed March 19, 1923. Serial No. 177,697. PUBLISHED JULY 10, 1923.

174,052. CERTAIN NAMED TOILET PREPARATIONS. ARTHUR WINARICK, New York, N. Y.
Filed March 19, 1923. Serial No. 177,720. PUBLISHED JULY 10, 1923.

174,053. STEEL MARKING DIES. JAS. H. MATTHEWS & COMPANY, Pittsburgh, Pa.
Filed March 21, 1923. Serial No. 177,791. PUBLISHED JULY 3, 1923.

174,054. SOFT DRINK. FLORIDA PRODUCTS COMPANY, INC., New York, N. Y.
Filed March 26, 1923. Serial No. 178,032. PUBLISHED JULY 3, 1923.

174,055. POPPET VALVES FOR INTERNAL-COMBUSTION ENGINES. THE STEEL PRODUCTS COMPANY, Cleveland, Ohio.
Filed March 26, 1923. Serial No. 178,069. PUBLISHED JULY 3, 1923.

174,056. POPPET VALVES FOR INTERNAL-COMBUSTION ENGINES. THE STEEL PRODUCTS COMPANY, Cleveland, Ohio.
Filed March 26, 1923. Serial No. 178,070. PUBLISHED JULY 3, 1923.

174,057. JOURNAL BEARINGS. OREGON BRASS WORKS, Portland, Oreg.
Filed March 29, 1923. Serial No. 178,273. PUBLISHED JULY 10, 1923.

174,058. CLOAKS, SUITS, DRESSES. M. KIRSCHNER & SONS, New York, N. Y.
Filed March 30, 1923. Serial No. 178,346. PUBLISHED JULY 10, 1923.

174,059. CHILDREN'S DRESSES. MARTHA MAID MANUFACTURING COMPANY, INCORPORATED, Chicago, Ill.
Filed March 26, 1923. Serial No. 178,367. PUBLISHED JULY 10, 1923.

174,060. CARBURETORS AND STRUCTURAL PARTS AND FITTINGS THEREFOR. THE EAGLE CARBURETOR COMPANY, Cleveland, Ohio.
Filed April 2, 1923. Serial No. 178,434. PUBLISHED JULY 3, 1923.

174,061. CHEESE COLOR AND BUTTER COLOR. LEVRING AND COMPANY, INCORPORATED, St. Louis, Mo.
Filed April 2, 1923. Serial No. 178,449. PUBLISHED JULY 10, 1923.

174,062. MEDICINE USED IN CASES OF STOMACH, LIVER, KIDNEY, AND BLADDER TROUBLE, INDIGESTION, CONSTIPATION, BILIOUSNESS, AND BACKACHE. ORGAN-IRON MEDICINE COMPANY, Omaha, Nebr.
Filed April 2, 1923. Serial No. 178,459. PUBLISHED JULY 10, 1923.

174,063. A CERTAIN NAMED MEDICINAL PREPARATION. ORGAN-IRON MEDICINE COMPANY, Omaha, Nebr.
Filed April 2, 1923. Serial No. 178,460. PUBLISHED JULY 10, 1923.

174,064. CERTAIN NAMED MEDICINAL PREPARATION. ORGAN-IRON MEDICINE COMPANY, Omaha, Nebr.
Filed April 2, 1923. Serial No. 178,461. PUBLISHED JULY 10, 1923.

174,065. FACE AND HAND LOTION. THE REMILLER CO., New York, N. Y.
Filed April 2, 1923. Serial No. 178,472. PUBLISHED JULY 10, 1923.

174,066. PREPARATION FOR THE TREATMENT OF PILES. CICERO FRANCIS FUTRELL, Conway, N. C.
Filed April 3, 1923. Serial No. 178,500. PUBLISHED JULY 10, 1923.

174,067. MEDICINE FOR THE TREATMENT OF HOG CHOLERA. Mrs. NELLIE F. HOFFMAN, Brookings, S. Dak.
Filed April 3, 1923. Serial No. 178,504. PUBLISHED JULY 10, 1923.

174,068. POWDER FOR NURSERY AND TOILET USE. THE CRYSTAL CHEMICAL CO. INC., New York, N. Y.
Filed April 4, 1923. Serial No. 178,554. PUBLISHED JULY 10, 1923.

174,069. DYESTUFFS APPLICABLE IN COLORING AND PRINTING PURPOSES. H. A. METZ & CO., INC., New York, N. Y.
Filed April 4, 1923. Serial No. 178,563. PUBLISHED JULY 10, 1923.

174,070. FACIAL OIL AND OINTMENT. SALON VIENNESE, New York, N. Y.
Filed April 4, 1923. Serial No. 178,570. PUBLISHED JULY 10, 1923.

174,071. SAWS HANDLED AND NOT HANDLED, HAMMERS, SLEDGES, WEDGES, STONE PICKS, PICKAXES. SANDVIKENS JERNVERKS AKTIEBOLAG, Sandviken, Sweden.
Filed April 4, 1923. Serial No. 178,571. PUBLISHED JULY 3, 1923.

174,072. LIQUID DANDRUFF REMOVER. STERLING PRICE TAYLOR, doing business as Taylor Drug Company, Mineral Wells, Tex.
Filed April 4, 1923. Serial No. 178,575. PUBLISHED JULY 10, 1923.

174,073. CERTAIN NAMED MEDICINAL PREPARATIONS. CHLORO CHEMICAL CORPORATION, New York, N. Y.
Filed April 5, 1923. Serial No. 178,592. PUBLISHED JULY 10, 1923.

174,074. PREPARATION FOR REMOVING CORNS AND CALLUSES. E. C. DE WITT & CO., INC., Chicago, Ill.
Filed April 5, 1923. Serial No. 178,597. PUBLISHED JULY 10, 1923.

174,075. LIQUID IODINE PREPARATION. HARRY J. NOVACK, doing business as Colloidal Laboratories, Philadelphia, Pa.
Filed April 5, 1923. Serial No. 178,626. PUBLISHED JULY 10, 1923.

174,076. CERTAIN NAMED TOILET PREPARATIONS. CARL A. SCHWARZE, doing business as Sindol Co., Woodhaven, N. Y.
Filed April 6, 1923. Serial No. 178,676. PUBLISHED JULY 10, 1923.

174,077. SAWS, HANDLED AND NOT HANDLED, HAMMERS, SLEDGES, WEDGES, STONE PICKS, PICKAXES. SANDVIKENS JERNVERKS AKTIEBOLAG, Sandviken, Sweden.
Filed April 9, 1923. Serial No. 178,872. PUBLISHED JULY 3, 1923.

174,078. HAND-OPERATED, PORTABLE, AND STATIONARY FIRE-EXTINGUISHING APPARATUS. FOAMITE-CHILDS CORPORATION, Utica, N. Y.
Filed April 11, 1923. Serial No. 178,984. PUBLISHED JULY 3, 1923.

174,079. SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed May 28, 1923. Serial No. 181,260. PUBLISHED JULY 17, 1923.

174,080. SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed May 28, 1923. Serial No. 181,259. PUBLISHED JULY 17, 1923.

174,081. SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed May 28, 1923. Serial No. 181,258. PUBLISHED JULY 17, 1923.

174,082. SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed May 28, 1923. Serial No. 181,257. PUBLISHED JULY 17, 1923.

174,083. CHINAWARE. THE ATLAS CHINA COMPANY, Niles, Ohio.
Filed May 25, 1923. Serial No. 181,104. PUBLISHED JULY 10, 1923.

174,084. PIECE GOODS OF SILK, COTTON, AND WOOL AND MIXTURES OF THE SAME. SOCIÉTÉ RODIER, Paris, France.
Filed May 11, 1923. Serial No. 180,506. PUBLISHED JULY 10, 1923.

174,085. PIECE GOODS OF SILK, COTTON, AND WOOL AND MIXTURES OF THE SAME. SOCIÉTÉ RODIER, Paris, France.
Filed May 11, 1923. Serial No. 180,504. PUBLISHED JULY 10, 1923.

174,086. HANDKERCHIEFS. LÉON BLOCH, New York, N. Y.
Filed May 10, 1923. Serial No. 180,413. PUBLISHED JULY 10, 1923.

174,087. HAIR NETS. BE-NEET MANUFACTURING CO., INC., New York, N. Y.
Filed May 9, 1923. Serial No. 180,356. PUBLISHED JULY 10, 1923.

174,088. COTTON YARNS. OLD COLONY MANUFACTURING CORPORATION, Taunton, Mass.
Filed May 5, 1923. Serial No. 180,237. PUBLISHED JULY 10, 1923.

174,089. YARNS FOR KNITTING, CROCHETING, AND ART NEEDLEWORK. BERNHARD ULMANN CO. INC., New York, N. Y.
Filed May 4, 1923. Serial No. 180,199. PUBLISHED JULY 10, 1923.

174,090. TABLE GLASSWARE. GIMBEL BROTHERS, INC., New York, N. Y.
Filed May 2, 1923. Serial No. 180,063. PUBLISHED JULY 10, 1923.

174,091. COTTON PIECE GOODS. WILTON MANUFACTURING COMPANY, INC., New York, N. Y.
Filed May 1, 1923. Serial No. 180,038. PUBLISHED JULY 3, 1923.

174,092. HAND-SEWING AND MACHINE-SEWING LINEN THREAD. BARBOUR FLAX SPINNING CO., Paterson, N. J.
Filed May 1, 1923. Serial No. 179,984. PUBLISHED JULY 10, 1923.

174,093. KNITTED WOOL AND COTTON GOODS IN THE PIECE. VARY KNIT CO., INC., Union Hill, N. J., and New York, N. Y.
Filed April 27, 1923. Serial No. 179,836. PUBLISHED JULY 3, 1923.

174,094. KEY CHAINS. THE BOYE NEEDLE CO., Chicago, Ill.
Filed April 27, 1923. Serial No. 179,773. PUBLISHED JULY 3, 1923.

174,095. YARNS. ERNEST A. REED, New York, N. Y.
Filed April 24, 1923. Serial No. 179,623. PUBLISHED JULY 10, 1923.

174,096. HAIR NETS. O. L. STANARD DRY GOODS CO., Huntington, W. Va.
Filed April 21, 1923. Serial No. 179,491. PUBLISHED JULY 10, 1923.

174,097. TIRE FABRICS IN THE PIECE. SALMON FALLS MANUFACTURING COMPANY, Boston, Mass.
Filed April 18, 1923. Serial No. 179,323. PUBLISHED JULY 17, 1923.

174,098. PIPES, CIGAR AND CIGARETTE HOLDERS, AND TOBACCO POUCHES. ALFRED DUNHILL OF LONDON, INC., New York, N. Y.
Filed April 17, 1923. Serial No. 179,263. PUBLISHED JULY 10, 1923.

174,099. CLEANING PREPARATION FOR BATHTUBS, SINKS, PORCELAIN, MARBLE, ENAMELED WARE, POTS, KETTLES, TINWARE, CROCKERY, OILCLOTH, LINOLEUM, FLOORS, PAINTED WALLS, AND WOODWORK. THOMAS E. FORSTER, doing business as T. E. Forster & Co., Neosho, Mo.
Filed July 1, 1920. Serial No. 134,467. PUBLISHED JUNE 12, 1923.

174,100. PILLOWCASES. NAUMKEAG STEAM COTTON Co., Salem, Mass.
Filed April 9, 1921. Serial No. 145,957. PUBLISHED JULY 10, 1923.

174,101. PILLOWCASES. NAUMKEAG STEAM COTTON Co., Salem, Mass.
Filed April 9, 1921. Serial No. 145,958. PUBLISHED JULY 10, 1923.

174,102. TABLE KNIVES OF BASE METAL AND PARTICULARLY OF INCORRODIBLE IRON ALLOYS, AND TRADES-CUTLERY KNIVES. AMERICAN CUTLERY COMPANY, Chicago, Ill.
Filed June 25, 1921. Serial No. 149,621. PUBLISHED JULY 3, 1923.

174,103. DEVICES FOR SUPPORTING COOKING UTENSILS AND OTHER ARTICLES OVER AN OPEN FIRE. CAMPFIRE MANUFACTURING COMPANY, St. Louis, Mo.
Filed November 22, 1921. Serial No. 155,737. PUBLISHED JULY 3, 1923.

174,104. TRANSMISSION OR CRANK CASING PARTS. HUDSON MOTOR SPECIALTIES COMPANY, Philadelphia and Frankford, Pa.
Filed January 31, 1922. Serial No. 158,677. PUBLISHED JULY 3, 1923.

174,105. LENSES FOR GOGGLES AND PROTECTION GLASSES. WILLSON GOGGLES, INC., Reading, Pa.
Filed March 15, 1922. Serial No. 160,734. PUBLISHED SEPTEMBER 19, 1922.

174,106. BABY BATHS, COFFEE BOILERS, RICE BOILERS, BOWLS, WASHBASINS, CHAMBERS, CABINETS, COLANDERS, CUPS AND SAUCERS, ETC. SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo.
Filed April 15, 1922. Serial No. 162,358. PUBLISHED JULY 3, 1923.

174,107. CALIPER GAUGES, SUCH AS SNAP AND PIN GAUGES. PRATT & WHITNEY COMPANY, New York, N. Y.
Filed May 24, 1922. Serial No. 164,452. PUBLISHED JULY 3, 1923.

174,108. FRUIT PRESSES. MICHAEL J. BROWN, Philadelphia, Pa.
Filed July 5, 1922. Serial No. 166,498. PUBLISHED JULY 10, 1923.

174,109. SALVE. JESSIE ANN BOND, doing business as J. & A. Bond, Hamilton, Ontario, Canada.
Filed October 23, 1922. Serial No. 171,061. PUBLISHED JULY 10, 1923.

174,110. BOOTS AND SHOES OF KID, CANVAS, AND LEATHER. THE JUVENILE SHOE CORPORATION OF AMERICA, Carthage, Mo.
Filed October 2, 1922. Serial No. 170,198. PUBLISHED JUNE 26, 1923.

174,111. ULTRAMARINE BLUE. THE STANDARD ULTRAMARINE CO., Huntington, W. Va.
Filed October 18, 1922. Serial No. 170,907. PUBLISHED MARCH 20, 1923.

174,112. PHARMACEUTICAL PREPARATIONS FOR THE TREATMENT OF COUGHS, WHOOPING COUGH, AND SIMILAR DISEASES. VALENTINO BALDACCI, doing business as Laboratorio Chimico Farmaceutico V. Baldacci, Pisa, Italy.
Filed October 18, 1922. Serial No. 170,921. PUBLISHED JULY 3, 1923.

174,113. SHOES OF LEATHER, RUBBER, AND FABRIC. NIAGARA SHOE COMPANY, INC., Buffalo, N. Y.
Filed October 21, 1922. Serial No. 171,029. PUBLISHED JULY 3, 1923.

174,114. A REMEDY FOR HEADACHE AND NEURALGIA. THE REESE CHEMICAL COMPANY, Cleveland, Ohio.
Filed November 17, 1920. Serial No. 139,754. PUBLISHED NOVEMBER 8, 1921.

174,115. NICKEL SULPHATE. BRITISH AMERICA NICKEL CORP'N LTD., Ottawa, Ontario, Canada.
Filed February 24, 1921. Serial No. 143,977. PUBLISHED JULY 3, 1923.

174,116. NICKEL AMMONIUM SULPHATE. BRITISH AMERICA NICKEL CORP'N LTD., Ottawa, Ontario, Canada.
Filed February 24, 1921. Serial No. 143,978. PUBLISHED JULY 3, 1923.

174,117. PICTURES. DAVID DAVIDSON, Providence, R. I.
Filed June 10, 1921. Serial No. 148,932. PUBLISHED JUNE 19, 1923.

174,118. RENNET, JUNKET TABLETS, AND LACTIC FERMENT. N. KJAERGAARD JENSENS TEKN. KEM. FABRIK, Copenhagen, Denmark.
Filed October 27, 1921. Serial No. 154,654. PUBLISHED JULY 3, 1923.

174,119. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed October 31, 1921. Serial No. 154,810. PUBLISHED JULY 3, 1923.

174,120. MAGAZINES, BOOKS, AND STORIES. FICTION HOUSE, INC., New York and Long Island City, N. Y.
Filed November 12, 1921. Serial No. 155,304. PUBLISHED MAY 29, 1923.

174,121. LEATHER PRESERVATIVES MADE FROM WOOL FAT OR LANOLIN. NORTH STAR CHEMICAL WORKS, INC., Lawrence, Mass.
Filed November 19, 1921. Serial No. 155,630. PUBLISHED JUNE 5, 1923.

174,122. CERTAIN NAMED ADVERTISING LITERATURE. D. RELENVALEN, Cleveland, Ohio.
Filed December 17, 1921. Serial No. 156,860. PUBLISHED JUNE 12, 1923.

174,123. SOFT DRINKS AND EXTRACTS. THE ZIPP MANUFACTURING COMPANY, Cleveland, Ohio.
Filed May 19, 1920. Serial No. 132,673. PUBLISHED JUNE 21, 1921.

174,124. BEDSPREADS. PRIMROSE DRAPERIES, INC., New York, N. Y.
Filed May 11, 1923. Serial No. 180,493. PUBLISHED JULY 10, 1923.

174,125. WOMEN'S HAIR NETS. J. C. PENNEY COMPANY, Salt Lake, Utah, and New York, N. Y.
Filed May 11, 1923. Serial No. 180,491. PUBLISHED JULY 10, 1923.

174,126. CERTAIN WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS. CHENEY BROTHERS, South Manchester, Conn.
Filed May 12, 1923. Serial No. 180,521. PUBLISHED JULY 10, 1923.

174,127. CLOTH AND STUFFS OF WOOL AND WORSTED. PENDLE & RIVETT LIMITED, London, England.
Filed May 12, 1923. Serial No. 180,549. PUBLISHED JULY 10, 1923.

174,128. COTTON GOODS IN THE PIECE. DAVID SCHWARTZ COMPANY, INC., New York, N. Y.
Filed May 12, 1923. Serial No. 180,558. PUBLISHED JULY 10, 1923.

174,129. RIC-RAC BRAID AND SHIRRED RIBBON ELASTIC. BARASH BROTHERS, INC., New York, N. Y.
Filed May 17, 1923. Serial No. 180,738. PUBLISHED JULY 3, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

174,130. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARL A. ISAACSON, Copas, Minn. Filed Mar. 24, 1923. Serial No. 177,974.

AGED MOUNTAIN GROWTH

BRAND



The lining shown on the drawing is for shading purposes only. No claim is made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Coffee.
Claims use since on or about Sept. 1, 1917.

174,131. (CLASS 39. CLOTHING.) LOUIS BERGER, doing business as Manhattan Manufacturing Co., New York, N. Y. Filed Oct. 30, 1922. Serial No. 171,349.

MANHATTAN CLOTHING SPECIALTIES

Particular description of goods.—Office Coats, Mohair Suits, Panama Suits, Covert Suits, Gabardine Suits, Seersucker Suits, Whipcord Suits, Duck Trousers, Waiter Jackets, Golf Knickers, Knitted Vests, Full-Dress and Tuxedo Vests, Bath Robes, Chefs' Caps, Waiters' Aprons, White Coats, Linen Dusters, Topcoats, and Conductors' Ceciallanne Coats.
Claims use since October, 1902.

174,132. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN BLEACHED GOODS COMPANY, INC., New York, N. Y. Filed July 7, 1923. Serial No. 182,894.

BERNESE

SWISS

Particular description of goods.—Cotton Goods in the Piece.
Claims use since on or about Jan. 31, 1922.

174,133. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) M. C. PETERS MILL CO., Omaha, Nebr. Filed May 12, 1923. Serial No. 180,550.

PETERS'

Particular description of goods.—Stock and Poultry Feed.
Claims use since about December, 1905.

174,134. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN C. MACPHERSON, doing business as Macpherson's Bakery, La Grande, Oreg. Filed May 3, 1923. Serial No. 180,136.



Particular description of goods.—Bread.
Claims use since May 1, 1921.

174,135. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DETROIT PACKING CO., Detroit, Mich. Filed June 3, 1922. Serial No. 164,874.



Particular description of goods.—Bacon.
Claims use since Oct. 1, 1921.

174,136. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROBERT A. JOHNSTON COMPANY, Milwaukee, Wis. Filed Apr. 19, 1922. Serial No. 162,554.

CHOICE BOX

Particular description of goods.—Candies.
Claims use since February, 1922.

174,137. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SYLVESTER J. SCHENK, Avon Lake, Ohio. Filed Dec. 15, 1921. Serial No. 156,761.



The Puritas Springs Poultry Farm.

Particular description of goods.—Eggs.
Claims use since July 25, 1916.

174,138. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. HELLER AND COMPANY, Chicago, Ill. Filed Aug. 13, 1921. Serial No. 151,759.

FANCY-PASTRY

Particular description of goods.—A Pastry Preparation in Powdered Form Used as an Ingredient in the Making of Puddings, Pie Fillings, and Cake Fillings.
Claims use since Oct. 22, 1909.

174,139. (CLASS 33. GLASSWARE.) WARNER-PATTERSON COMPANY, Chicago, Ill. Filed May 3, 1920. Serial No. 131,998.

PATTERSON

Particular description of goods.—Light Refracting or Diffusing Glass for Headlights.
Claims use since Feb. 10, 1920.

174,140. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) CHANDLER & FISHER LIMITED, Winnipeg, Manitoba, Canada. Filed July 30, 1920. Serial No. 135,596.

Perfection

Particular description of goods.—Surgical Ligatures.
Claims use since Nov. 7, 1904.

174,141. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) GEIS & SCHAEFER CO., Chicago, Ill. Filed Feb. 15, 1922. Serial No. 159,358.

KANTKRACK

Particular description of goods.—Musical-Instrument Cases.
Claims use since Nov. 19, 1921.

174,142. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) REINHARD ERNST BARTELS, doing business as Props Manufacturing Co., Lynn, Mass. Filed Aug. 16, 1922. Serial No. 168,291.

PROPS

Particular description of goods.—Combined Arch-Supporting and Heel-Locating Shank Pieces for Boots and Shoes.
Claims use since on or about July 15, 1922.

174,143. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WEST COAST KALSOMINE COMPANY, Berkeley, Calif. Filed May 16, 1923. Serial No. 180,728.

WATER-TINT

Particular description of goods.—Calcimine.
Claims use since April, 1921.

174,144. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ELI LILLY & COMPANY, Indianapolis, Ind., now by change of name Eli Lilly & Company, Indianapolis, Ind., a Corporation of Indiana. Filed Mar. 31, 1921. Serial No. 145,518.

COCO-QUININE

Particular description of goods.—Liquid Medicinal Preparation Containing Quinine.
Claims use since about January, 1900.

174,145. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DE CAMERON, INC., New York, N. Y. Filed Apr. 11, 1923. Serial No. 178,967.

Afghani

Particular description of goods.—Perfumes.
Claims use since Oct. 1, 1921.

174,146. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ORANGE CRUSH COMPANY, Chicago, Ill. Filed Aug. 6, 1923. Serial No. 184,146.

Orange-CRUSH COMPANY

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages and Compounds and Concentrates for Making the Same.
Claims use since June 15, 1916.

174,147. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH VICTORI & CO. INC., New York, N. Y. Filed June 16, 1923. Serial No. 182,119.

IBERIA

Particular description of goods.—Food Products—viz, Preserved Candied Fruits (Turron Mazapan de Frutas).
Claims use since June, 1922.

174,148. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OMAK FRUIT GROWERS, Omak, Wash. Filed June 9, 1923. Serial No. 181,770.

OMAK BRAND

Particular description of goods.—Fresh Apples.
Claims use since June, 1916.

174,149. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE HYMAN PICKLE CO., Louisville, Ky. Filed Apr. 19, 1923. Serial No. 179,372.



Particular description of goods.—Pickles, Catchup, Sauerkraut, Mustard, Pepper Sauce, Vinegar, Worcester Sauce, Tabasco Sauce, Olives, and Mayonnaise.
Claims use since 1872.

174,150. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GRAHAM CHEMICAL COMPANY, Greensboro, N. C. Filed Apr. 13, 1923. Serial No. 179,096.



Particular description of goods.—Liquid Disinfectant.
Claims use since Apr. 1, 1920.

174,151. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DE CAMERON INC., New York, N. Y. Filed Apr. 11, 1923. Serial No. 178,969.

Saigon

Particular description of goods.—Perfumes.
Claims use since Oct. 1, 1921.

174,152. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DE CAMERON INC., New York, N. Y. Filed Apr. 11, 1923. Serial No. 178,962.

Oeillet du Japon

Particular description of goods.—Perfumes.
Claims use since Oct. 1, 1921.

174,153. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ROCKWOOD MANUFACTURING COMPANY, Indianapolis, Ind. Filed May 13, 1922. Serial No. 163,828.

Clinging Fibre

Particular description of goods.—Power-Transmission Pulleys.
Claims use since Apr. 6, 1922.

174,154. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SELDEN G. WARNER, doing business as The Staset Company, West Orange, N. J. Filed Apr. 17, 1922. Serial No. 162,469.

STASET

Particular description of goods.—Diamond Tools for Dressing Grinding Wheels and Turning Hard Rubber, Celluloid, Fiber, Aluminum, Bronze, Cast Iron, and Many Other Materials, Diamond Engraving Tools, Diamond Marking Tools, and Diamond Drills.
Claims use since October, 1921.

LABELS

REGISTERED OCTOBER 2, 1923.

26,437.—*Title:* HILLCREST HONEY. For Extracted Honey Containers. C. RICHARD ANDERSON, Northfield, Minn. Published August 17, 1923.

26,438.—*Title:* DR. BECK'S LASSES DREAMS. For Molasses Candy. C. M. BECK COMPANY, San Francisco, Calif. Published June 27, 1923.

26,439.—*Title:* BLUEBIRDS FOR HAPPINESS. For Liver Pills. BLUEBIRD PHARMACAL CO., Cambridge, Mass. Published August 7, 1923.

26,440.—*Title:* GRANOLA. For Corn Oil. BRAMU PACKING CO., Chicago, Ill. Published August 6, 1923.

26,441.—*Title:* TREASURE CHEST (SPANISH SCENES). For Phonograph Records. C. BRUNO & SON, INC., New York, N. Y. Published July 12, 1923.

26,442.—*Title:* TREASURE CHEST. For Phonograph Records. C. BRUNO & SON, INC., New York, N. Y. Published July 12, 1923.

26,443.—*Title:* BUNTE LICORICE TIPS. For Candy. BUNTE BROTHERS, Chicago, Ill. Published July 25, 1923.

26,444.—*Title:* BIG MIKE SUSPENDERS. For Men's Suspenders. CLAWSON & WILSON COMPANY, Buffalo, N. Y. Published August 22, 1923.

26,445.—*Title:* THE KRISTO BOARD. For a Child's Drawing Board. CRAWFORD-ROONEY-SODERLUND, Minneapolis, Minn. Published August 27, 1923.

26,446.—*Title:* DORR'S VIM CLEANING COMPOUND. For a Cleaning Compound. C. DORR, Kansas City, Mo. Published May 16, 1923.

26,447.—*Title:* DRAKE BRAND. For Apples. EARL FRUIT CO. OF THE NORTHWEST, San Francisco, Calif. Published June 27, 1923.

26,448.—*Title:* YOUTHTONE. For a Cosmetic. Mr. EDGAR W. INGRAM, Peoria, Ill. Published July 10, 1923.

26,449.—*Title:* SALT. For Salt. INTERNATIONAL SALT COMPANY, INC., New York, N. Y., and Scranton, Pa. Published July 2, 1923.

26,450.—*Title:* FASHIONABLE. For Hair Nets. ADOLPH KLAR, New York, N. Y. Published August 9, 1923.

26,451.—*Title:* VIENNETTE. For Hair Nets. ADOLPH KLAR, New York, N. Y. Published August 9, 1923.

26,452.—*Title:* ARABELLO BITTERS. For a Medicinal Preparation—Namely, an Appetizing and Digestive Tonic. KRONBERGER'S LABORATORIES, Boston, Mass. Published March 7, 1923.

26,453.—*Title:* S & S SPOT-LITE. For Electric Spotlights. S. & M. LAMP CO., INC., Los Angeles, Calif. Published August 21, 1923.

26,454.—*Title:* PRETTY BABY. For Canned Citrous Fruits. W. E. LEE & CO., INC. Plant City, Fla. Published May 15, 1923.

26,455.—*Title:* EMBLEMS OF DISTINCTION. For Emblems and Badges. E. L. LOGEE COMPANY, Providence, R. I. Published June 1, 1923.

26,456.—*Title:* WORLD OVER. For Stogies. GEORGE MAHNKEN, Washington, Pa. Published July 9, 1923.

26,457.—*Title:* MODEL. For Ice Cream. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis. Published April 20, 1923.

26,458.—*Title:* EDGEMONTE. For Boxes Containing Assorted Chocolates. MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Published June 4, 1923.

26,459.—*Title:* SANS CRÈME. For Boxes Containing Chocolates. MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Published July 9, 1923.

26,460.—*Title:* VICTOR RUST PROOF SPRING SNAP FASTENER. For Snap Fasteners. NEW YORK MERCHANDISE COMPANY, New York, N. Y. Published December 31, 1921.

26,461.—*Title:* MAID-O-WHEAT. For Bread. NEWARK PARAFFINE & PARCHMENT PAPER CO., Newark, N. J.; Columbus, Ohio; and New York, N. Y. Published February 21, 1922.

26,462.—*Title:* ODEX. For a Foot Medicine for Treating the Feet. ODEX PRODUCTS COMPANY, Chicago, Ill. Published February 1, 1923.

26,463.—*Title:* ROBIN BRAND. For Pure Ribbon Cane Sirup. ROBINSON SYRUP CO. INC., Cairo, Ga. Published September 15, 1922.

26,464.—*Title:* BILT-E-Z THE BOY BUILDER. For Toy Building Blocks. SCOTT MANUFACTURING COMPANY, Chicago, Ill. Published July 25, 1923.

26,465.—*Title:* CEDAR CREEK CRAB MEAT. For Crab Meat. U. S. STEWART & BRO., Baltimore, Md. Published April 28, 1923.

26,466.—*Title:* SWEET CLOVER CREAMERY BUTTER. For Creamery Butter. THE SWEET CLOVER DAIRY CO., Wooster, Ohio. Published July 15, 1923.

26,467.—*Title:* J. R. WHITE'S EMERALD SOFT SOAP. For Soft Soap. JOSEPH RUSSELL WHITE, Greenridge, N. Y. Published June 15, 1923.

PRINTS

REGISTERED OCTOBER 2, 1923.

6,905.—*Title:* PYORRHEA-APPLYING PYRO-PACK CREAM. For a Medicinal Cream for Treating Teeth. BROWN-BRAND & BROWN, Chicago, Ill. Published April 13, 1923.

6,906.—*Title:* SAINT BERNARDS. For a Frankfurter Incloseed and Baked Inside of a Biscuit or Roll. WILBUR F. COPELAND, New York, N. Y. Published August 31, 1923.

6,907.—*Title:* ONLY ONE IN FIVE IS SAFE. For a Preparation for the Teeth. FORHAN COMPANY, New York, N. Y. Published May 29, 1923.

6,908.—*Title:* THE BIG BROTHER PACKAGE. For Jell-O. THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Published August 1, 1923.

6,909.—*Title:* THE LUNCHEON PARTY. For Jell-O. THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Published August 1, 1923.

6,910.—*Title:* THE CHILDREN'S GROCERY STORE. For Jell-O. THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Published August 1, 1923.

6,911.—*Title:* THE MAID. For Jell-O. THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Published August 1, 1923.

6,912.—*Title:* CHERRY WHIP. For Jell-O. THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Published August, 1 1923.

6,913.—*Title:* POLLY PUT THE KETTLE ON. For Jell-O. THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Published August 1, 1923.

6,914.—*Title:* PINEAPPLE BAVARIAN CREAM. For Jell-O. THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Published August 1, 1923.

6,915.—*Title:* THE GROCERY BOY. For Jell-O. THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Published August 1, 1923.

6,916.—*Title:* IT'S REAL COFFEE. For Coffee. HILLS BROS., San Francisco, Calif. Published June 26, 1923.

6,917.—*Title:* THE RECOGNIZED STANDARD. For Coffee. HILLS BROS., San Francisco, Calif. Published June 6, 1923.

6,918.—*Title:* COFFEE FLAVOR THAT SATISFIES. For Coffee. HILLS BROS., San Francisco, Calif. Published May 11, 1923.

6,919.—*Title:* REMEMBER THE MAN YOU'LL REMEMBER THE CAN. For Coffee. HILLS BROS., San Francisco, Calif. Published May 9, 1923.

6,920.—*Title:*—WHERE THE FINEST COFFEE FLAVOR COMES FROM. For Coffee. HILLS BROS., San Francisco, Calif. Published May 25, 1923.

6,921.—*Title:* YOU CAN GET GOOD COFFEE. For Coffee. HILLS BROS., San Francisco, Calif. Published May 29, 1923.

6,922.—*Title:* YES PEOPLE CHANGE *TO* AND THEN REMAIN SATISFIED. For Coffee. HILLS BROS., San Francisco, Calif. Published May 18, 1923.

6,923.—*Title:* IT'S SUNNY FLAVOR WINS YOUR FAVOR. For Coffee. HILLS BROS., San Francisco, Calif. Published June 5, 1923.

6,924.—*Title:* SHOOT THE PLUGS USE ONE 400 TIMES AND MORE. For Plugs for Cleaning Condenser Tubes. MANNION & ARTHUR CO., Perth Amboy, N. J. Published July 2, 1923.

6,925.—*Title:* PARAMOUNT. For Automobiles. PARAMOUNT MOTORS SYNDICATE, Los Angeles, Calif. Published July 18, 1923.

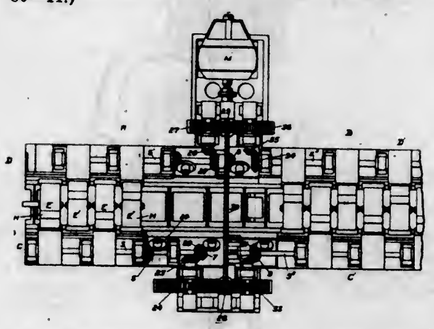
6,926.—*Title:* EVERYWHERE, PEOPLE WELCOME THIS BETTER WAY OF KEEPING THEIR TEETH SOUND AND ATTRACTIVE! For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published March 18, 1923.

6,927.—*Title:* WE-FONE-U STORES. For Groceries. VICTOR E. THURMAN, Tampa, Fla. Published July 12, 1923.

REISSUES.

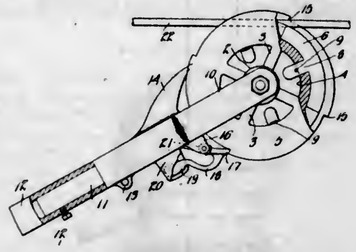
OCTOBER 2, 1923.

15,692. CONTINUOUS TUBE ROLLING MILL. RICHARD E. BROCK, Wooster, Ohio, assignor, by mesne assignments, to Mackintosh-Hemphill Company, Pittsburgh, Pa. Filed Oct. 4, 1922. Serial No. 592,345. Original No. 1,420,239, dated June 20, 1922, Serial No. 409,922, filed Sept. 13, 1920. 15 Claims. (Cl. 80—11.)



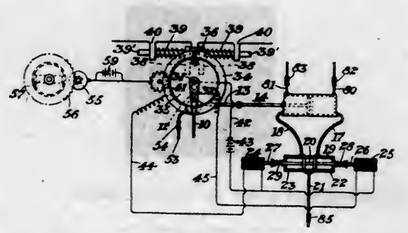
1. In a continuous tube rolling mill, a mill unit including a plurality of roll stands carrying pass forming rolls, separate driving shafts respectively at opposite sides of the roll positions, gearing between each shaft and the rolls of alternate roll stands, the said gearing including a gear set for each roll stand, and the corresponding gear sets at opposite sides of the unit including gears of uniform size, and means for driving one of said driving shafts faster than the other.

15,693. TROLLEY WHEEL. OTTO MOORE, Frankfort, Ind., assignor of one-half to Giles S. Moore, Frankfort, Ind. Filed June 4, 1923. Serial No. 643,450. Original No. 1,382,664, dated June 28, 1921, Serial No. 285,264, filed Mar. 26, 1919. 5 Claims. (Cl. 191—591.)



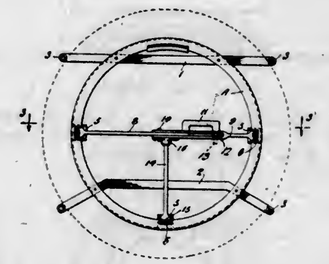
1. In a device of the class described, a harp; a trolley wheel journaled thereon and comprising separately removable tread sections; and a pawl and ratchet connection between the harp and the wheel and operating to hold the wheel against rotation in one direction, thereby to present the tread sections one at a time fixed for sliding engagement with a trolley wire, the pawl and ratchet mechanism permitting a rotation of the wheel in an opposite direction, thereby to present different tread sections for fixed sliding engagement with the wire, substantially as set forth.

15,694. HELM-LIMITING DEVICE. ALBERT D. TRENOR, Gloucester, Mass., assignor to John Hays Hammond, jr., Gloucester, Mass. Filed Aug. 8, 1923. Serial No. 656,465. Original application filed Mar. 14, 1918, Serial No. 222,359. Renewed Apr. 15, 1921, Serial No. 461,676. Original No. 1,405,078, dated Jan. 31, 1922. 18 Claims. (Cl. 114—21.)



1. The combination with a dirigible body of a rudder operatively mounted thereon, and actuating means for said rudder including a rotatable segmental contact, an electrical contact arranged to cooperate with said segmental contact, an electrical device controlled by the ooperation of said contacts, and means automatically operative as a result of a deviation of said body from a predetermined normal course to rotate said segmental contact at an angular rate different from the angular rate of deviation of said body from said normal course, to return said body to said normal course.

15,695. TIRE RACK FOR AUTOMOBILES. LLEWELYN A. NARES, Fresno, Calif. Filed Apr. 2, 1917. Serial No. 159,337. Original No. 1,150,696, dated Aug. 17, 1915, Serial No. 15,246, filed Mar. 18, 1915. 20 Claims. (Cl. 224—29.)



1. A tire-holding rack comprising a base ring, a fixed arm on the top of the ring and projecting laterally therefrom, three arms hinged on the ring and circumferentially disposed one from another approximately ninety degrees, tire-engaging means on all the arms, and connecting means between the hinged arms for simultaneously moving all of them outwardly into tire-engaging position, or inwardly into tire-releasing position.

DESIGNS.

OCTOBER 2, 1923.

63,062. PAPER. CHESTER S. AAGAARD, Chicago, Ill. Filed Aug. 3, 1922. Serial No. 3,282. Term of patent 7 years.



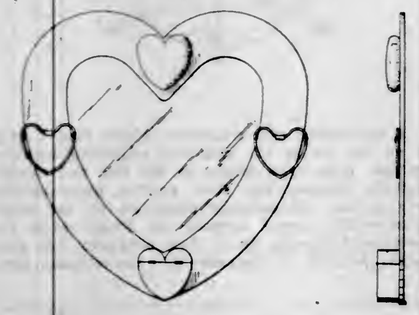
The ornamental design for paper as shown.

63,063. TRADING STAMP. HARRY D. ADAMY, Wilkes-Barre, Pa., assignor to Merchants Gold Stamp Company, Wilkes-Barre, Pa. Filed Nov. 26, 1921. Serial No. 518,092. Term of patent 14 years.



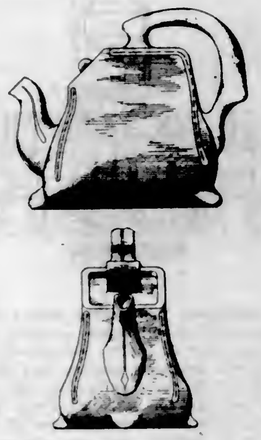
The ornamental design for a trading stamp, as shown.

63,064. NECKTIE HOLDER. JASPER R. ANDERSON, Fargo, N. Dak. Filed Jan. 18, 1923. Serial No. 4,929. Term of patent 3½ years.



The ornamental design for a necktie holder as shown.

63,065. TEAPOT. GERTRUDE BARNETT, San Francisco, Calif. Filed Mar. 5, 1923. Serial No. 5,367. Term of patent 14 years.



The ornamental design for a teapot as shown.

63,066. CASING FOR FRUIT-JUICE EXTRACTOR. CHARLES B. BLESSING, Chicago, Ill., assignor to Blessing Electric and Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 11, 1921. Serial No. 476,948. Term of patent 14 years.



The ornamental design for a casing for fruit juice extractor, as shown.

63,067. TEXTILE FABRIC. JOHN S. BOYD, Williamstown, Mass., assignor to John S. Boyd Co., Inc., Williamstown, Mass., a Corporation of Massachusetts. Filed Apr. 10, 1923. Serial No. 5,733. Term of patent 14 years.



The ornamental design for a textile fabric, as shown.

63,068. TEXTILE FABRIC. JOHN S. BOYD, Williamstown, Mass., assignor to John S. Boyd Co., Inc., Williamstown, Mass., a Corporation of Massachusetts. Filed Apr. 11, 1923. Serial No. 5,787. Term of patent 14 years.

The ornamental design for a textile fabric, as shown.

63,069. TEXTILE FABRIC. JOHN S. BOYD, Williamstown, Mass., assignor to John S. Boyd Co., Inc., Williamstown, Mass., a Corporation of Massachusetts. Filed Apr. 11, 1923. Serial No. 5,788. Term of patent 14 years.



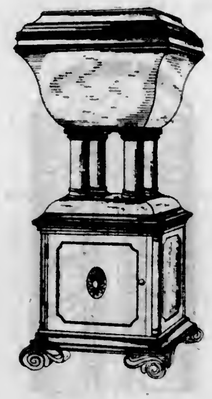
The ornamental design for a textile fabric, as shown.

63,070. FINGER RING. HYMAN BRESLAVSKY, Brooklyn, N. Y. Filed Feb. 23, 1923. Serial No. 5,244. Term of patent 3½ years.



The ornamental design for a finger ring, as shown.

63,071. ACOUSTIC CABINET. DOMENICO BRUNELLI, Philadelphia, Pa. Filed Jan. 31, 1923. Serial No. 5,037. Term of patent 7 years.



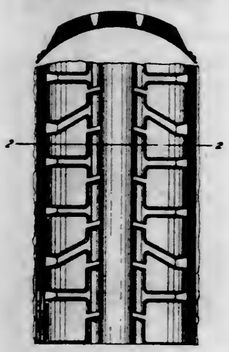
The ornamental design for an acoustic cabinet, as shown.

63,072. DOLL OR STATUETTE. MASON CASE, Los Angeles, Calif. Filed Feb. 9, 1922. Serial No. 611. Term of patent 3½ years.



The ornamental design for doll or statuette, substantially as shown and described.

63,073. TIRE TREAD. JAMES M. CRANZ, Buffalo, N. Y. Filed Dec. 28, 1922. Serial No. 4,739. Term of patent 7 years.



The ornamental design for a tire tread, as shown.

63,074. BROOM. HENRY J. EDLUND, Burlington, Vt., assignor, by mesne assignments, to The Fuller Brush Company, Hartford, Conn., a Corporation of Connecticut. Filed Apr. 13, 1922. Serial No. 1,734. Term of patent 14 years.



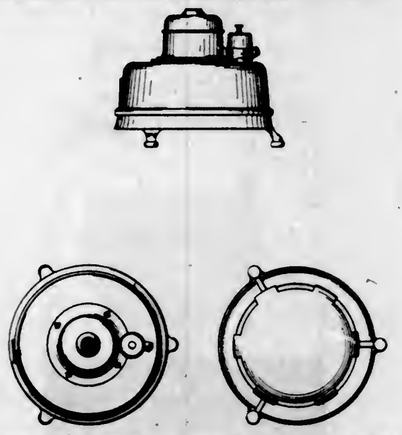
The ornamental design for a broom shown in the accompanying drawing.

63,075. PASTRY SHELL. ERNEST FRANCO, Philadelphia, Pa. Filed Dec. 11, 1922. Serial No. 4,564. Term of patent 7 years.



The ornamental design for a pastry shell as shown.

63,076. VACUUM-CLOTHES-CLEANER CASING. ROY E. GEARHART, OWEN D. STEWART, and LOUIS A. HECKEL, Kansas City, Mo. Filed July 5, 1921. Serial No. 482,598. Term of patent 3½ years.



The ornamental design for a vacuum clothes cleaner casing as shown.

63,077. DOLL. CHARLES E. GIBSON, New York, N. Y. Filed Mar. 11, 1922. Serial No. 1,118. Term of patent 3½ years.



The ornamental design for a doll, as shown.

63,078. CHAIR. WILLIAM H. GUNLOCKE, Wayland, N. Y., and GEORGE J. PIKE, Grand Rapids, Mich., assignors to The W. H. Gunlocke Chair Co., Wayland, N. Y., a Corporation of New York. Filed Mar. 24, 1923. Serial No. 5,586. Term of patent 14 years.



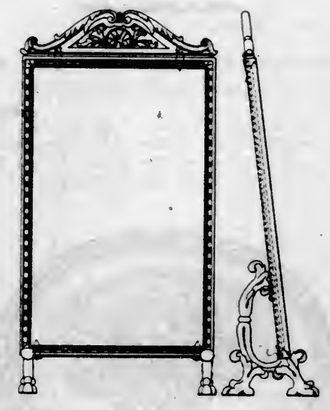
The ornamental design for a chair, as shown.

63,079. FEATHERSTITCH BRAID OR SIMILAR ARTICLE. ALBERT A. HODGKINS, Bridgeport, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed Oct. 22, 1921. Serial No. 509,718. Term of patent 7 years.



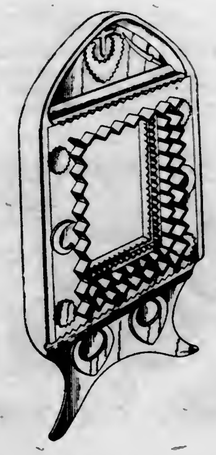
The ornamental design for featherstitch braid or similar articles, substantially as shown.

63,080. FRAME OR EASEL FOR DISPLAYING CARDS, PICTURES, AND LIKE ARTICLES. WILLIAM EVANS KEHOE, San Francisco, Calif. Filed Apr. 2, 1923. Serial No. 5,668. Term of patent 3½ years.



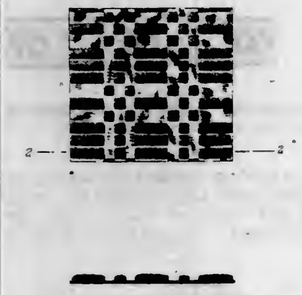
The ornamental design for a frame or easel for displaying cards, pictures, and like articles, as shown.

63,081. PICTURE FRAME. THOMAS M. KEMPER, Crecy, Tex. Filed Mar. 8, 1923. Serial No. 5,409. Term of patent 3½ years.



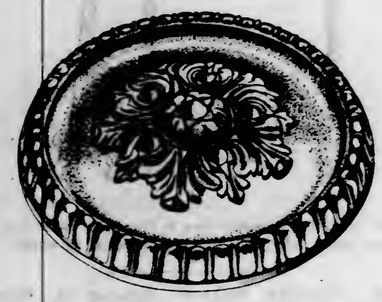
The ornamental design for a picture frame, as shown.

63,082. TEXTILE FABRIC. JOHN LEIPER, New York Mills, N. Y., assignor to New York Mills Corporation, New York Mills, N. Y. Filed Apr. 2, 1923. Serial No. 5,671. Term of patent 14 years.



The ornamental design for textile fabric as shown.

63,083. UMBRELLA STAND. JOHN MULLER, Flushing, N. Y., assignor to Decorative Arts League, Jersey City, N. J., a Corporation of New Jersey. Filed Sept. 29, 1922. Serial No. 3,843. Term of patent 14 years.



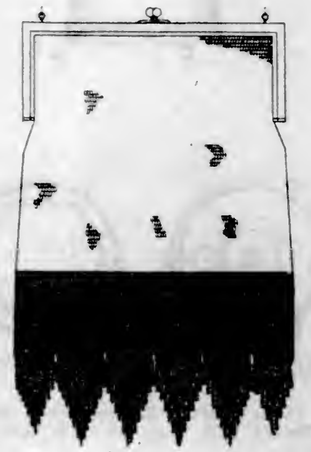
The ornamental design for an umbrella stand, as shown.

63,084. TEXTILE FABRIC. MAX ROTHSCHILD, New York, N. Y., assignor to Susquehanna Silk Mills, a Corporation of New York. Filed Dec. 5, 1922. Serial No. 4,498. Term of patent 3½ years.



The ornamental design for a textile fabric as shown.

63,085. MESH BAG. HARRY BRADLEY ROWAN, North Attleboro, Mass., assignor to Whiting & Davis Company, a Corporation of Massachusetts. Filed July 28, 1922. Serial No. 3,227. Term of patent 7 years.



The ornamental design for a mesh bag as shown.

63,086. MESH BAG. HARRY BRADLEY ROWAN, North Attleboro, Mass., assignor to Whiting & Davis Company, a Corporation of Massachusetts. Filed July 28, 1922. Serial No. 3,229. Term of patent 7 years.



The ornamental design for a mesh bag as shown.

63,087. MESH BAG. HARRY BRADLEY ROWAN, North Attleboro, Mass., assignor to Whiting & Davis Company, a Corporation of Massachusetts. Filed July 14, 1922. Serial No. 3,080. Term of patent 7 years.



The ornamental design for a mesh bag as shown.

63,088. MESH BAG. HARRY BRADLEY ROWAN, North Attleboro, Mass., assignor to Whiting & Davis Company, a Corporation of Massachusetts. Filed July 14, 1922. Serial No. 3,081. Term of patent 7 years.



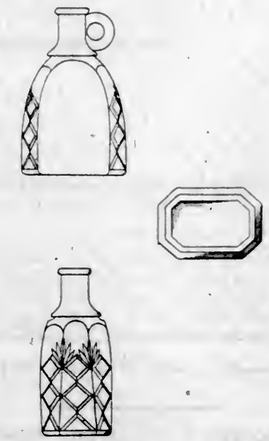
The ornamental design for a mesh bag as shown.

63,089. MACHINE EMBROIDERY. E. OTTO SCHÜLER, Falkenstein, Germany, assignor to Perlmann, Schal & Stern, New York, N. Y., a Copartnership composed of Nicholaus Perlmann, George Schal, and Herman Stern. Filed Sept. 20, 1922. Serial No. 3,769. Term of patent 3½ years.



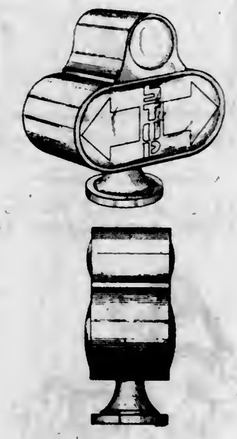
The ornamental design for machine embroidery, as shown.

63,090. DECANTER. FREDERICK W. SCHWENCK, Cincinnati, Ohio. Filed Mar. 19, 1923. Serial No. 5,505. Term of patent 14 years.



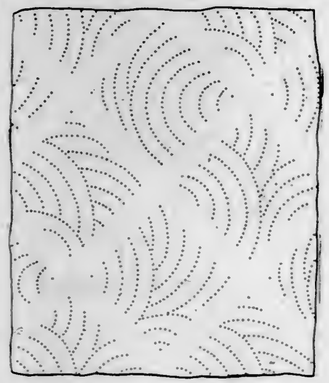
The ornamental design for a decanter as shown.

63,091. DIRECTION-SIGNAL CASING. EDWARD SOULÉ, Brooklyn, N. Y. Filed Jan. 9, 1923. Serial No. 4,838. Term of patent 14 years.



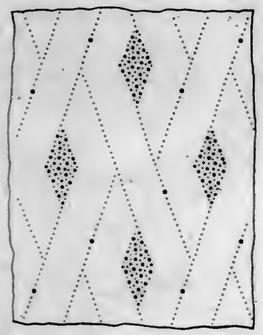
The ornamental design for a direction signal casing, substantially as shown.

63,092. FLOCKED VOILE FABRIC. EDWARD B. VANDERGAW, Brooklyn, and JULES HEINRICH, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y., a Corporation of New York. Filed Aug. 18, 1922. Serial No. 3,429. Term of patent 3½ years.



The ornamental design for flocked voile fabric, as shown.

63,093. FLOCKED VOILE FABRIC. EDWARD B. VANDERGAW, Brooklyn, and JULES HEINRICH, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y., a Corporation of New York. Filed Aug. 18, 1922. Serial No. 3,411. Term of patent 3½ years.



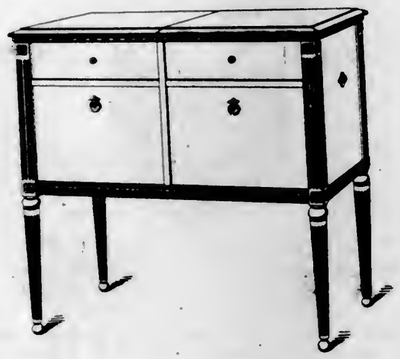
The ornamental design for flocked voile fabric, as shown.

63,094. ASH TRAY. MAURICE J. WRIGHT, Boise, Idaho. Filed Apr. 14, 1923. Serial No. 5,822. Term of patent 14 years.



The ornamental design for an ash tray.

63,095. PHONOGRAPH CABINET. HULBERT A. YERKES, Forest Hills, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn., a Corporation of Delaware. Filed Apr. 23, 1923. Serial No. 5,899. Term of patent 3½ years.



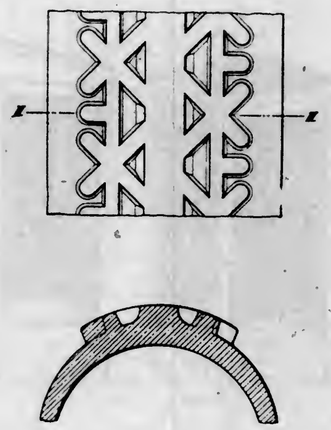
The ornamental design for a phonograph cabinet, as shown.

63,096. PHONOGRAPH CABINET. HULBERT A. YERKES, Forest Hills, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn., a Corporation of Delaware. Filed Apr. 23, 1923. Serial No. 5,901. Term of patent 3½ years.



The ornamental design for a phonograph cabinet, as shown.

63,097. VEHICLE TIRE. GEORGE U. BLASER, Cumberland, Md., assignor to Kelly Springfield Tire Company, Cumberland, Md., a Corporation of New Jersey. Filed Jan. 23, 1923. Serial No. 4,969. Term of patent 14 years.



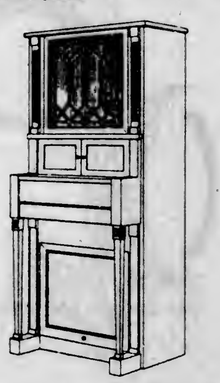
The ornamental design for a vehicle tire as shown.

63,098. EARRING. EUGENE P. DANZ, St. Paul, Minn. Filed Apr. 13, 1923. Serial No. 5,813. Term of patent 3½ years.



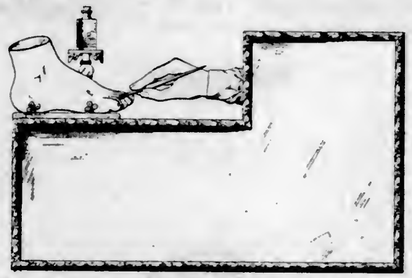
The ornamental design for an ear ring, as shown.

63,099. RADIOCABINET. LUTHER EDGAR DAVIS, Syracuse, N. Y. Filed Nov. 6, 1922. Serial No. 4,233. Term of patent 14 years.



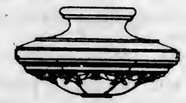
The ornamental design for a radiocabinet, as shown.

63,100. SIGN. MAURICE M. FEINBERG, New York, N. Y. Filed May 18, 1922. Serial No. 2,305. Term of patent 3½ years.



The ornamental design for a sign, as shown.

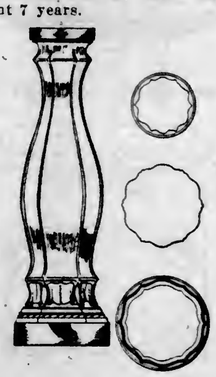
63,101. CANDLE-PLATE BODY FOR LIGHTING FIXTURES. HAMILTON T. HOWELL, New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Oct. 28, 1922. Serial No. 4,122. Term of patent 14 years.





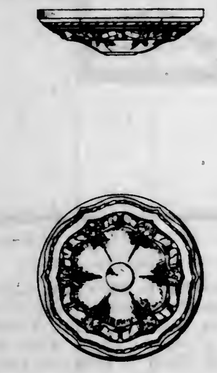
The ornamental design for a candle plate body for lighting fixtures as shown.

63,102. SPINDLE FOR LIGHTING FIXTURES. HAMILTON T. HOWELL, New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Oct. 28, 1922. Serial No. 4,124. Term of patent 7 years.



The ornamental design for a spindle for lighting fixtures as shown.

63,103. CEILING PLATE FOR LIGHTING FIXTURES. HAMILTON T. HOWELL, New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Oct. 28, 1922. Serial No. 4,129. Term of patent 14 years.



The ornamental design for a ceiling plate for lighting fixtures, as shown.

63,104. PLATE FOR LIGHTING FIXTURES. HAMILTON T. HOWELL, New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Oct. 28, 1922. Serial No. 4,131. Term of patent 14 years.



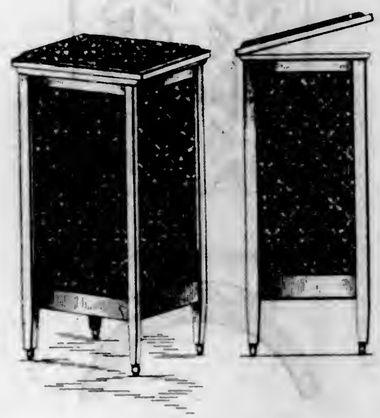
The ornamental design for a plate for lighting fixtures, as shown.

63,105. DISPLAY CARD. CLIFFORD G. KING, Providence, R. I., Filed Oct. 5, 1922. Serial No. 3,890. Term of patent 14 years.



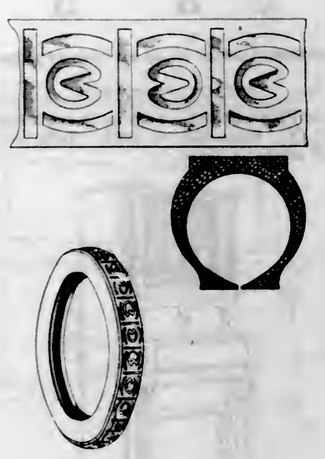
The ornamental design for a display card, as shown.

63,106. CLOTHES HAMPER. BARTLETT KRISHER, North Manchester, Ind. Filed Feb. 16, 1922. Serial No. 739. Term of patent 7 years.



The ornamental design for a clothes hamper, as shown.

63,107. VEHICLE WHEEL TIRE. ELIJAH MCCOY, Detroit, Mich., assignor of one-half to George W. Moulden, Detroit, Mich. Filed May 13, 1922. Serial No. 2,232. Term of patent 7 years.



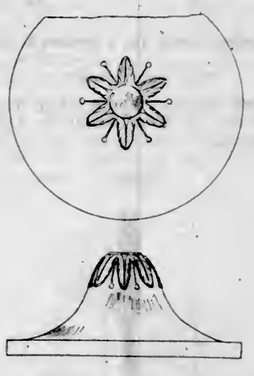
The ornamental design for a vehicle wheel tire as shown.

63,108. GLASS. BEREL MCCRACKEN and CELESTER PYROTT, Mount Pleasant, Pa., assignors to Bryce Brothers Company, Mount Pleasant, Pa., a Corporation of Pennsylvania. Filed May 3, 1922. Serial No. 2,052. Term of patent 14 years.



The ornamental design for glass as shown.

63,109. TOP FOR PAN FOR LIGHTING FIXTURES. GLENN E. MCFADDEN, Lakewood, Ohio, assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Oct. 14, 1922. Serial No. 3,968. Term of patent 14 years.



The ornamental design for a top for pan for lighting fixtures, as shown.

63,110. CHANDELIER. ABRAHAM MILLER, New York, N. Y. Filed Nov. 6, 1922. Serial No. 4,232. Term of patent 3½ years.



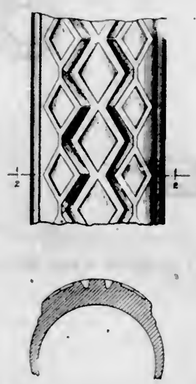
The ornamental design for a chandelier, as shown.

63,111. LAMP. OLGA POPOFF MULLER and ANDREW PETER POPOFF, Flushing, N. Y., assignors to Decorative Arts League, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 18, 1922. Serial No. 4,324. Term of patent 14 years.



The ornamental design for a lamp, as shown.

63,112. PNEUMATIC TIRE. SAMUEL B. ROBERTSON, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Dec. 14, 1922. Serial No. 4,591. Term of patent 14 years.



The ornamental design for a pneumatic tire as shown.

63,113. FLOWER STAND. JESSIE MAY SLINGER, Riverside, Calif. Filed Sept. 15, 1921. Serial No. 500,971. Term of patent 3½ years.



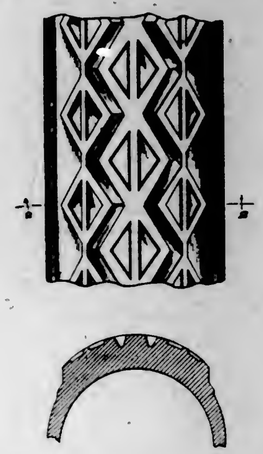
The ornamental design for a flower stand as shown.

63,114. SNAP BUTTON. SAMUEL TACKLER, New York, N. Y. Filed May 26, 1922. Serial No. 2,428. Term of patent 3½ years.



The ornamental design for a snap button, as shown.

63,115. PNEUMATIC TIRE. JAMES D. TEW, Hudson, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Dec. 14, 1922. Serial No. 4,592. Term of patent 14 years.



The ornamental design for a pneumatic tire as shown.

63,116. LAMP STAND. FRANK AKEY WYATT, Indiana, Pa. Filed Dec. 16, 1922. Serial No. 4,621. Term of patent 7 years.

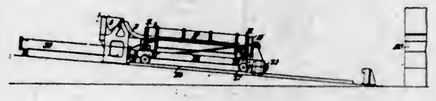


The ornamental design for a lamp stand, as shown.

PATENTS

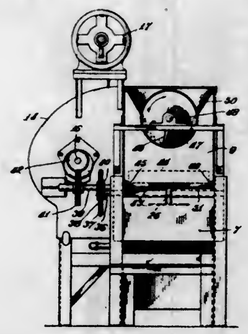
GRANTED OCTOBER 2, 1923.

1,469,206. PIPE MANUFACTURE. THOMAS PEACOCK ANTHONY, Edgewater Park, N. J. Filed Feb. 21, 1922. Serial No. 538,238. 12 Claims. (Cl. 22—65:)



1. The process of making cast iron pipe, which consists in removing said cast pipe from the mold, axially, into a confined atmosphere maintained at a temperature above 1400° F. at the region of introduction of said pipe; and while said pipe is at a temperature above 1000° F.; rotating said pipe upon its axis while progressing the latter transversely with respect to its original position, into regions of successively lower temperature in said confined atmosphere, until said pipe has cooled to less than 500° F.; and then withdrawing said pipe from said secluded atmosphere into the open atmosphere.

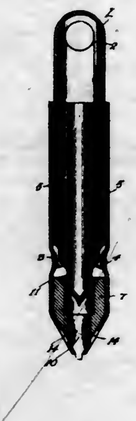
1,469,207. WASHING MACHINE. GEORGE S. BLAKESLEE, Oak Park, Ill. Filed Aug. 16, 1920. Serial No. 403,759. 11 Claims. (Cl. 141—1.)



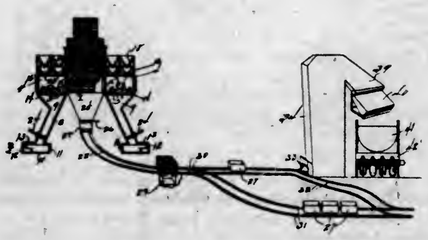
6. A washing machine comprising a tank, a plurality of conveyors disposed one above another and extending over said tank for conducting articles to be washed thereover, one of said conveyors being a reticulated rotary cylinder, and means for throwing water from said tank simultaneously upon the articles carried by said conveyors.

1,469,208. SWITCHBOARD LAMP. ERNEST A. BOHLMAN, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 14, 1921. Serial No. 444,772. 8 Claims. (Cl. 176—32.)

1. A terminal strip of the class described comprising a forwardly extending portion and an enlarged rear portion, a tongue integrally formed with the rear portion of and parallel to said terminal strip, a base provided with a central orifice for receiving the tongue to position said terminal upon said base, a pair of clips integrally formed with said rear portion whereby said terminal strip engages the other end of said base, said clips engaging said orifice in said other end in the same plane with said tongue.

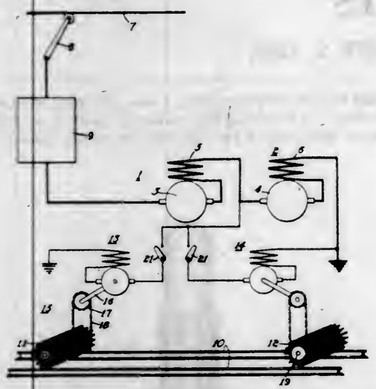


1,469,209. APPARATUS FOR HYDRATING LIME. DAVID R. BONE, Oglesby, Tex. Filed Aug. 13, 1921. Serial No. 491,908. 1 Claim. (Cl. 222—4.)



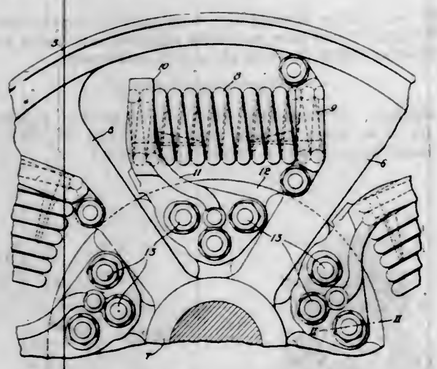
The apparatus for obtaining kilned hydrated lime, including a lime-kiln provided with an outlet for expelling the kilned lime, a car-track extending under the outlet and including a section capable of being raised and lowered, cars on the car-track for receiving lime from the said outlet and carrying it to said section, and a body of water in position relative to said section to receive and immerse the cars of kilned lime, for the purpose specified.

1,469,210. MOTOR-CONTROL SYSTEM. ANDREW H. CANDEE, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 29, 1920. Serial No. 426,928. 4 Claims. (Cl. 172—179.)



2. In a motor-control system, the combination with a plurality of main motors connected in series relation, of a load device, and an auxiliary motor for operating said device, said auxiliary motor being connected in parallel relation to one of said main motors.

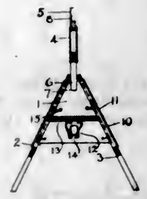
1,469,211. SPRING QUILL-ARM-SUPPORTING DEVICE. JOHN L. CROUSE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 3, 1920. Serial No. 349,254. 10 Claims. (Cl. 105—131.)



1. In combination with a driving member, a plurality of studs secured thereto, a transmission member provided with openings of comparatively large diameter for the reception of the studs, and means for effecting a rigid connection between each stud and the wall of its associated opening independently of the connections between the other studs and the walls of their respective openings.

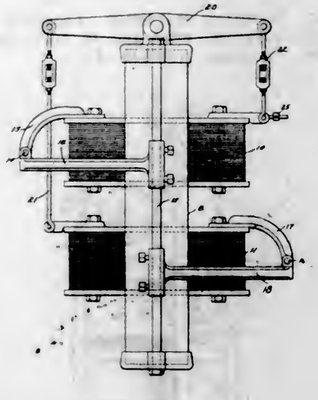
1,469,212. COLLAPSIBLE SILENT-BIDDING AUCTION EASEL. CLARENCE EDISON DE PEW, Springfield, Ill. Filed Nov. 2, 1921. Serial No. 512,315. 1 Claim. (Cl. 232—1.)

In a collapsible silent-bidding auction easel of the character described, having triangular ends with a vertical slot at the apex thereof, rectangular poster faces detachably mounted on the slant sides of said triangular end pieces, a detachable base board forming the bottom of a



receiving chamber for bidding cards, means provided in a springy, resilient, manually actuated support for said baseboard as and for the purpose set forth.

1,469,213. CONSTANT-CURRENT TRANSFORMER. WILLIAM E. DOUGLASS, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed July 12, 1917. Serial No. 180,076. 7 Claims. (Cl. 171—119.)

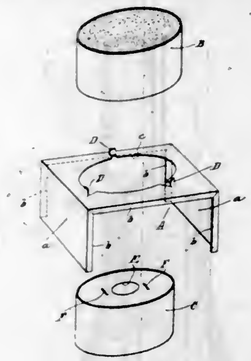


1. In a constant current transformer, the combination with a core member having a leg portion, of two flat coils loosely surrounding said leg portion, said coils being pivotally mounted for rotation about parallel axes disposed on opposite sides of said core member, said axes being perpendicular to a plane passing through the longitudinal axis of said core member, and means for adjusting said axes in a direction parallel to the longitudinal axis of said leg member.

1,469,214. FORMALDEHYDE FUMIGATOR. WILLIAM DREYFUS, New York, N. Y., assignor to West Disinfecting Company, New York, N. Y., a Corporation of New York. Filed May 6, 1922. Serial No. 559,065. 4 Claims. (Cl. 158—96.)

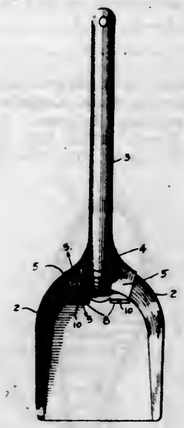
1. A wickless burner for solidified alcohol, consisting of a fuel container having an upper horizontal wall closed

with the exception of a central flame opening of small area relative to the wall and two opposed air openings



each adjacent the flame opening and each of small area relatice to said flame opening, for maintaining a steady flame and preventing flickering thereof.

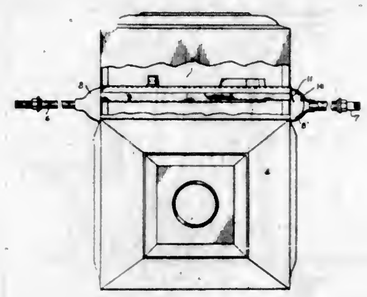
1,469,215. SHEET-METAL SHOVEL. JAMES M. ERVIN, Detroit, Mich. Filed Apr. 1, 1922. Serial No. 548,652. 6 Claims. (Cl. 294—49.)



1. As a new article of manufacture, a sheet metal shovel comprising a blade portion, having a flange and a tubular handle portion, said tubular handle portion being formed with a hollow extension and laterally extending flanges integral with the hollow extension to engage over the flange of said blade portion, said laterally extending flanges forming means for securing the handle portion to the blade portion.

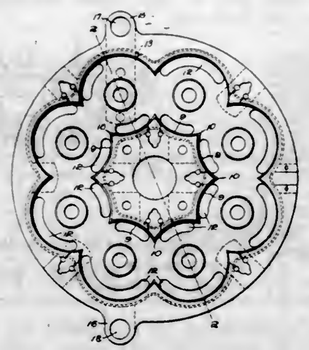
1,469,216. GAS METER. JOHN A. FARDY, Brooklyn, N. Y. Filed Nov. 22, 1922. Serial No. 602,502. 2 Claims. (Cl. 73—1.)

1. In combination with a meter of the class described, a connection between the meter and the pipes connecting therewith comprising a concave structure within which sediment may be accumulated, and a flap valve



hinged within said structure normally closing communication between the same and the interior of said meter.

1,469,217. BRAIDING-MACHINE BODY STRUCTURE. JOSHUA B. HALE, Providence, R. I., assignor to Textile Engineering Company, Providence, R. I., a Corporation of Rhode Island. Filed Nov. 2, 1921. Serial No. 512,317. 6 Claims. (Cl. 96—9.)

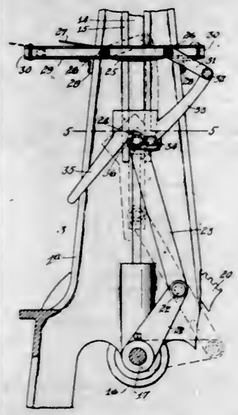


1. A braiding machine body structure wherein the braiding carriers are received, having an inner upright wall and an outer upright wall, spaced apart to form a communicating series of open-top depressions, wells or recesses for the reception of the quoits and wherethrough said carriers may circulate under guidance of said walls and quoits.

1,469,218. FILLING MACHINE. CHARLES L. HOOPER, Rochester, N. Y., assignor to Vacuum Oil Company, New York, N. Y., a Corporation of New York. Filed Dec. 18, 1920. Serial No. 431,749. 2 Claims. (Cl. 226—119.)

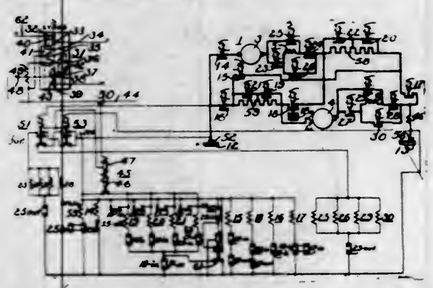
1. A filling machine comprising a receptacle supporting table, a plurality of filling nozzles arranged above and guided toward and from the table, a drip collector guided at opposite ends into and out of the path of movement of the nozzles, a pivotally mounted operating member for the drip collector having a cam groove, and mechanism for moving the nozzles toward and from

the table having a projection adapted to operate in said cam groove for moving the drip collector out of the



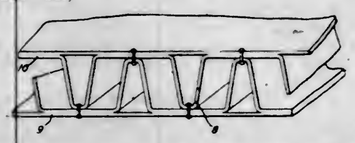
path of the nozzles as the latter move toward the table and for moving the drip collector toward the nozzles as the latter move away from the table.

1,469,219. MOTOR-CONTROL SYSTEM. HOWARD H. JOHNSTON, Edgewood, and DONALD C. PEABODY, Turtle Creek, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 18, 1921. Serial No. 493,214. 10 Claims. (Cl. 104—149.)



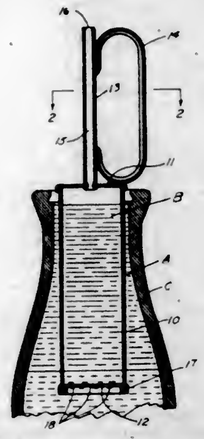
1. In a control system, the combination with a motor, of means for accelerating said motor, means for reversing the direction of operation of said motor, and means comprising a single conductor for governing both said directional means and the automatic operation of said accelerating means.

1,469,220. STRUCTURAL ELEMENT AND METHOD OF MAKING THE SAME. ROBERT KEMP, Washington, D. C., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 25, 1919. Serial No. 273,076. 10 Claims. (Cl. 244—31.)



3. An airplane rudder, elevating plane or the like comprising spaced plates, hollow ribs formed on the opposed faces of the plates serving to space the plates, and means connecting the plates.

1,469,221. CREAM SEPARATOR. FRANK J. KRISTOFEK, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed June 24, 1921. Serial No. 480,169. 2 Claims. (Cl. 137—18.)



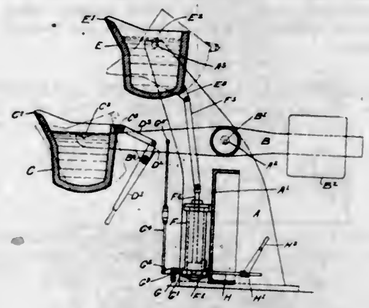
1. A cream separator including a cylindrical hollow body portion, a disk-like end wall secured to one end thereof, an opening formed in said wall, a perforated disk-like wall spaced from the other end of said body portion to position it within the end of said body portion in a manner to form a recess in that end of said cream separator, whereby cream is adapted to be directed into the perforations of said inset end in the area covered by said end.

1,469,222. METHOD OF LASTING SHOES. FRED N. LA CHAPELLE, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 14, 1919. Serial No. 310,722. 18 Claims. (Cl. 12—145.)



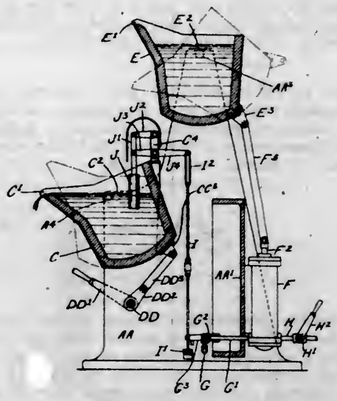
1. That improvement in methods of lasting shoes which consists in tensioning a portion of upper on one side of a shoe, securing a thread to said portion of the upper by a locked stitch at that side of the shoe, then tensioning a portion of upper on the opposite side of the shoe and securing that portion of the upper by a locked stitch, and then repeating the operations step by step lengthwise of the shoe.

1,469,223. CASTING-LADLE MECHANISM. JAMES B. LADD, Ardmore, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed Sept. 15, 1921. Serial No. 500,847. 4 Claims. (Cl. 22—79.)



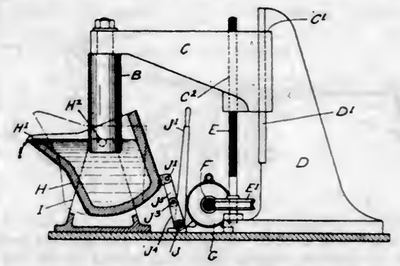
1. In combination with a casting ladle, means for maintaining a constant level of molten metal therein during pouring consisting of a balanced support for the casting ladle whereby it moves up or down as the weight of metal therein varies, a reservoir adapted to deliver molten metal to the casting ladle and means controlled by the up and down motion of the casting ladle, for controlling the flow of metal from the reservoir so as to maintain the level of metal in the casting ladle approximately constant.

1,469,224. CASTING-LADLE MECHANISM. JAMES B. LADD, Ardmore, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed Sept. 15, 1921. Serial No. 500,848. 2 Claims. (Cl. 22—79.)



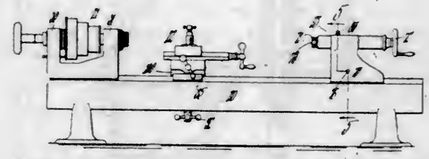
1. In combination with a casting ladle, means for maintaining a constant level of molten metal therein during pouring consisting of a reservoir adapted to deliver molten metal to the ladle, a float resting on the metal in the ladle and means controlled by the up and down motion of the float for regulating the pouring of metal from the reservoir so as to maintain an approximately constant level in the ladle.

1,469,225. CASTING-LADLE MECHANISM. JAMES B. LADD, Ardmore, Pa., assignor to United States Cast-Iron Pipe & Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed Sept. 15, 1921. Serial No. 500,849. 2 Claims. (Cl. 22—79.)



1. In combination with a casting ladle, means for maintaining a constant level of the fluid metal in the ladle consisting of a displacement body and means for moving said body into the ladle as metal is withdrawn therefrom.

1,469,226. PRECISION LATHE. PAUL LANGHAMMER, Springfield, Mass., assignor to Package Machinery Company, Springfield, Mass., a Corporation of Massachusetts. Filed Dec. 15, 1919. Serial No. 345,117. 8 Claims. (Cl. 82—6.)



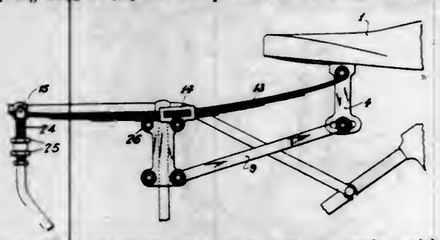
3. In a lathe, a slide support and a slide thereon having interfitting sliding surfaces means for taking up the loose play between said surfaces comprising movable friction members adapted to protrude from one of said surfaces and actuating members movble at an angle to said friction member for adjusting the same into frictional engagement with the other interfitting surface.

8. In a lathe, the combination of a longitudinally slotted bed, a shoe slidably mounted upon said bed, means for securing the shoe in different positions of adjustment longitudinally of the bed comprising a bolt extending vertically through said shoe and through said slots, a nut threaded on the lower end of said bolt, a clamping collar between said nut and said bed, a compression spring encircling said bolt and resting upon said collar, a floating collar on said bolt above said spring, means on said bed for preventing upward and downward displacement of the said floating collar in all positions of adjustment of said shoe longitudinally of the bed, means cooperating with said bolt and nut to clamp said shoe in adjusted position upon the bed when said nut is turned in one direction and to transmit the force of said spring to the shoe to yieldingly hold the latter against the bed when said nut is turned in the opposite direction.

1,469,227. CYCLE, MOTOR CYCLE, AND ANALOGOUS SADDLE. ARTHUR HILLSTEAD LAWRENCE, Birmingham, England, assignor to J. B. Brooks and Company Limited, Birmingham, England. Filed July 19, 1921. Serial No. 485,955. 6 Claims. (Cl. 208—100.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

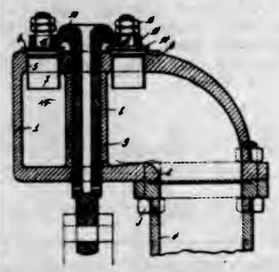
1. A motor-cycle, cycle or analogous saddle comprising a saddle top, parallel-motion link members, means for connecting the parallel-motion link members to the saddle top, and means for connecting the parallel motion link

members to the machine, said parallel motion link members being disposed in upper and lower planes and consisting of a rigid link member pivoted at opposite ends and a leaf spring fixed at one end and pivoted at the other end and



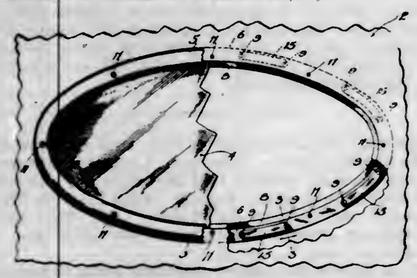
arranged substantially parallel to and cooperating with the rigid link member, so as to act as a parallel-motion link, in order to impart a parallel motion to the saddle top and at the same time support the load.

1,469,228. CONTROL VALVE. CHARLES LEJEUNE, Woluwe-St. Lambert, near Brussels, Belgium, assignor to Jules Lejeune, Brussels, Belgium. Filed Apr. 18, 1922. Serial No. 555,046. 3 Claims. (Cl. 277—12.)



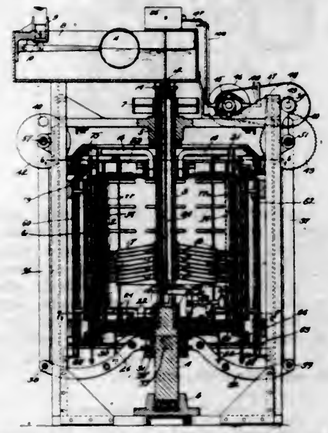
2. In a control valve for steam engines, a casing, the said casing being provided with a number of holes arranged circularly a valve seat formed in each of the said holes, a valve for each of the said holes, a guide arranged centrally in the casing, a single control rod passing through the said guide and projecting centrally above the casing, arms projecting radially from the control rod and adjustable abutments carried by the valves, the said abutments cooperating with the radially projecting arms whereby the valves may be opened in succession when the control rod is acted upon.

1,469,229. AUTO WINDOW FRAME. JOHN A. MCAVOY, Chicago, Ill., assignor, by mesne assignments, to Stewart Manufacturing Corporation, Wilmington, Del., a Corporation of Delaware. Filed Apr. 19, 1919. Serial No. 291,418. 2 Claims. (Cl. 296—145.)



1. In combination with a window opening in a curtain of pliant material, a relatively rigid frame comprising two sections of similar contour, secured together with the curtain material clamped between them, one of said frame members having recesses at certain positions and the other member having up-raised portions adapted to press the pliant material into said recesses for taking up slack; one of said frame sections being provided with dowels and the other section having recesses to receive them for positioning said frames in proper relation, and the up-raised portions carried by one frame member, being in the form of washers or plates apertured and carried on said dowels.

1,469,230. CENTRIFUGAL SEPARATING APPARATUS. JAMES MACKAYE, Cambridge, Mass. Filed Mar. 26, 1920. Serial No. 368,927. 33 Claims. (Cl. 233—20.)



1. A centrifugal separator comprising, in combination, a cylinder, mechanism for rotating said cylinder, means for conducting the fluid mixture to be separated into said cylinder whereby the action of centrifugal force on the mixture in the cylinder causes the solid material to separate and form a layer of mud on the inner surface of the cylinder, a discharge outlet for the liquid, valve mechanism for discharging said mud from the cylinder, and means for continuously driving said valve mechanism independently of the motion of said cylinder.

1,469,231. BEARING FOR COIL REGULATORS. RALPH E. MARBURY, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 30, 1920. Serial No. 400,264. 7 Claims. (Cl. 74—104.)

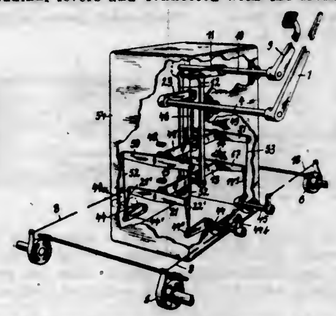


1. A bearing comprising a bottom member having a curved bearing surface, a top member supported thereby and having a curved bearing surface adapted to coact with the bearing surface of the first-named member for rolling contact therewith, and yieldable means secured to said surfaces for maintaining said bearing surfaces in operative relation.

1,469,232. VEHICLE BRAKE. KARL MAYBACH, Friedrichshafen, Germany, assignor to the Firm Maybach-Motorenbau Gesellschaft mit beschrankter Haftung, Friedrichshafen A. B., Germany. Filed Mar. 7, 1922. Serial No. 541,830. 3 Claims. (Cl. 188—106.)

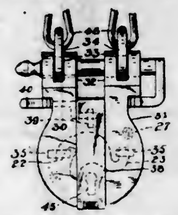
1. Brake-lever system for four wheeled vehicles comprising in combination, a pair of front brakes and a pair

of rear brakes, two balance levers extending longitudinally of the vehicle, transverse balance levers carried by said longitudinal levers and connected with the front and the



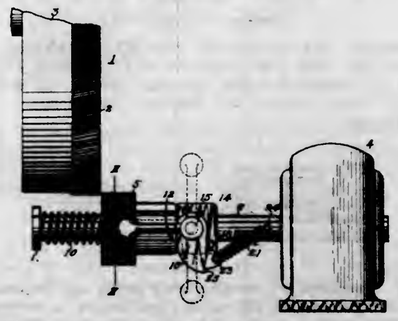
rear brakes, respectively, means for exerting a pull on said longitudinal balance levers and an abutment near each end of said longitudinal levers.

1,469,233. LOCK. ANGELO C. MESSINA and JOSEPH MESSINA, Pittsburgh, Pa. Filed Jan. 2, 1923. Serial No. 610,132. 7 Claims. (Cl. 70—17.)



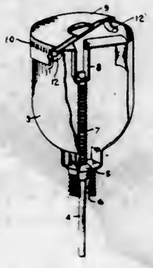
1. A lock comprising a casing provided with a slot, and an integrally formed shackle, a hasp member provided with a staple which latter is adapted to extend into the casing through said slot, a locking bolt capable when shifted to locking position of extending through said staple whereby the hasp member is locked in the casing, means for shifting the said bolt to release the hasp, a sleeve slidably mounted on said shackle, said hasp member fixedly connected with said sleeve.

1,469,234. STARTING MECHANISM FOR AUTOMOBILES. HARRY R. MEYER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 6, 1920. Serial No. 401,738. 8 Claims. (Cl. 74—7.)



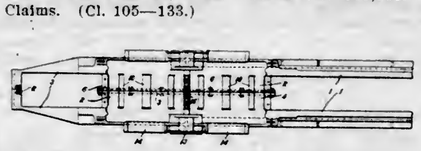
1. In a starting mechanism, the combination with an engine gear wheel, and a motor pinion, of a spring member for biasing said pinion out of mesh with said gear wheel, a weight member mounted for rotation with said pinion, and a cam member operated by said weight member for forcing the motor pinion into mesh with the engine gear wheel upon rotation of said pinion.

1,469,235. CLOSURE FOR CONTAINERS. LOUIS A. MOLTEN, Hoboken, N. J. Filed Apr. 7, 1920. Serial No. 371,914. 2 Claims. (Cl. 184—48.)



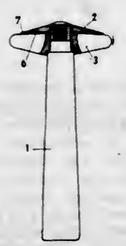
2. In a closure of the class described, a flanged outer cover adapted to be turned down upon the open end of a container, a projection from the centre of said cover and a flexible disc between the same and the periphery of said container whereby when said cover is applied, said disc bears upon the entire of said periphery.

1,469,236. LOCOMOTIVE FRAME. BENJAMIN S. MOORE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 20, 1922. Serial No. 530,564. 7 Claims. (Cl. 105—133.)



1. In a locomotive bed, a pair of substantially parallel side-frame members and transversely depending cradle members secured to said side frame members, said cradle members being secured together to provide a unitary, rigid locomotive-frame structure.

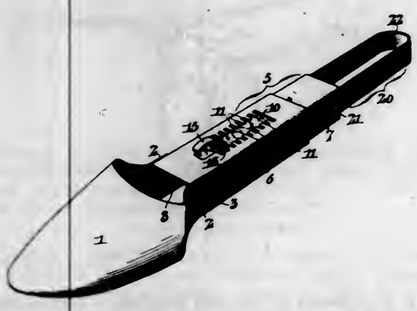
1,469,237. SAFETY RAZOR. EUGEN LUDWIG MÜLLER, Berlin, Germany. Filed July 16, 1920. Serial No. 396,875. 3 Claims. (Cl. 30—12.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a safety razor apparatus, a blade having on one side, and at each edge of the blade, cutting edges offset from the main portion of the body of the blade, including

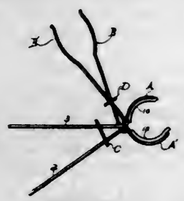
two plane surfaces lying in the same plane, a guard comb beneath the blade and a handle extending through a centre hole of the blade and fastened therein.

1,469,238. SHOE TREE. JAMES C. NEWLIN, Haverford, Pa. Filed Oct. 31, 1921. Serial No. 511,663. 7 Claims. (Cl. 12—128.1.)



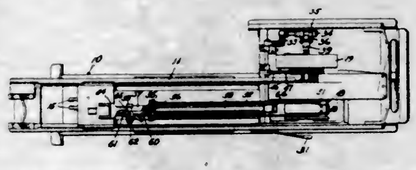
7. In a shoe tree, a toe piece in the form of a stamping fabricated from an integral piece of sheet material and conforming to the shape of the toe of the shoe, and having a flange formed around the edge of the toe piece constituting a partial sole portion and to add rigidity to the structure, a pair of apertured ears formed integrally with the side portions of the toe piece and bent toward each other to dispose them in closely spaced relation, said partial sole portion and said ears being integrally connected, an intermediate telescopic channel section member pivoted at one end between the apertured ears and a U-shaped heel-piece pivoted to the remote end of said telescopic member, and means for securing the telescopic member sections in adjusted relation.

1,469,239. TAIL HOLDER FOR CATTLE. ORRA A. OSTRANDER, Kirkwood, N. Y. Filed Oct. 7, 1921. Serial No. 506,132. 1 Claim. (Cl. 119—105.)



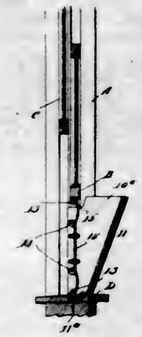
In a device of the class described comprising two pairs of hinged wire jaws, both pairs hinged on the same axis, both of wire, said jaws terminating at one end in a curved formation, the one for engagement with the hind leg of a cow and the other for engaging the bushy part of the tail, arms projecting backward from each jaw member, plates having openings therein, for the passage of the projecting arms therethrough, and being slidably mounted thereon, and adapted to be moved forward toward the pivot point of the jaws and thereby permitting their opening, and moved backward from the pivot point of the jaws, and thereby bringing together the curved portions of the jaws, and holding the same in firm engagement with, the leg and tail of the cow respectively.

1,469,240. DEVICE FOR TESTING THE RECUPERATIVE POWER IN A GUN. WILLIAM C. PALMER, Davenport, Iowa. Filed Mar. 22, 1922. Serial No. 545,910. 5 Claims. (Cl. 89—1.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



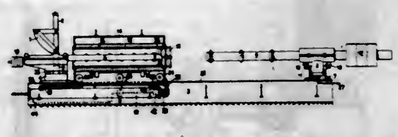
5. A gun testing device, including a support for a gun and its cradle, gun retracting means carried by the support and means for releasing the gun from the gun retracting means while the gun is in retracted position.

1,469,241. WINDOW ATTACHMENT. MARY KATHERINE ADCOCK, Winchester, Ky. Filed Sept. 11, 1922. Serial No. 587,410. 2 Claims. (Cl. 98—31.)



1. A window attachment comprising a shield device adapted for disposition below the partially raised lower sash and including end portions engaging against the confronting sides of the window casing and connected by a relatively large plate portion inclined upwardly away from the window with its lower edge disposed upon the sill and spring means for holding the device in position, said means consisting of a pair of spring members mounted at the edges of said end members and having one end engaging the sill and the other end engaging the lower edge of the bottom rail of the lower sash.

1,469,242. MACHINE FOR THE MANUFACTURE OF PIPING AND THE LIKE BY CENTRIFUGAL CASTING. FERNANDO ARENS, Sao Paulo, Brazil. Filed Mar. 27, 1923. Serial No. 628,141. 18 Claims. (Cl. 22—65.)



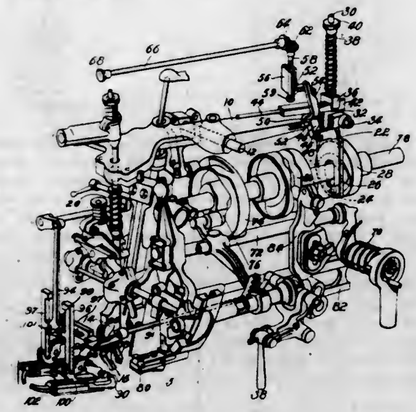
1. A machine for manufacturing piping and the like by centrifugal casting having, in combination, a rotatable casting mold, a casting tube of substantially the same length as the mold having a laterally directed opening, means whereby molten metal is adapted to be forced under pressure into the casting tube and, through the opening, into the casting mold, means for rotating the casting mold, and means for effecting relative longitudinal movement between the casting mold and the casting tube during the rotation of the mold.

1,469,243. IGNITION TIMER. NICHOLAS A. BACKSCHEIDER, Clifton, Ky. Filed Mar. 23, 1921. Serial No. 454,789. 4 Claims. (Cl. 200—24.)



1. An ignition timer, a cylindrical casing, an insulated cap removably attached to said casing and providing a closure upon one end of the casing, electric circuit conductor terminals imbedded within said insulator cap, each having one end exposed to the exterior side of said cap, and a commutator ring removably secured within said cap having contact elements respectively connecting with said conductor terminals.

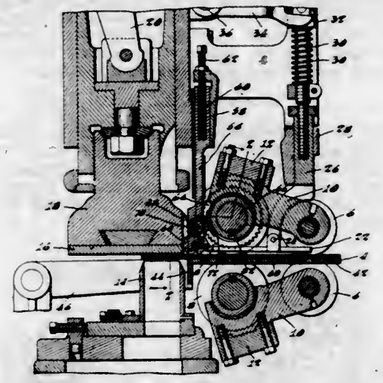
1,469,244. LASTING MACHINE. ARTHUR BATES, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 18, 1920. Serial No. 389,966. 45 Claims. (Cl. 12—2.)



1. An upper pulling machine having, in combination, a gripper, gripper operating mechanism for imparting a yielding pull to the upper, and means becoming effective during the pull for rendering the pull positive.

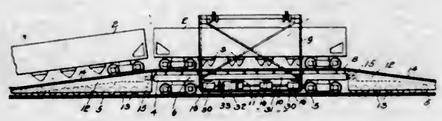
1,469,245. CUTTING MACHINE. WILLIAM C. BAXTER, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 19, 1921. Serial No. 470,875. 24 Claims. (Cl. 164—22.)

1. In a machine of the class described, cutting means, means for feeding sheet material to the cutting means, the construction and arrangement being such that the feeding means is spaced from the cutting means, and means for feeding the end portion of the sheet material



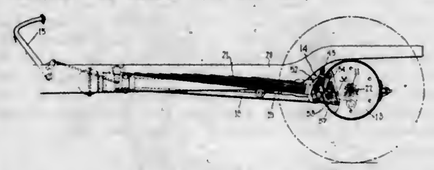
after it leaves the first mentioned feeding means constructed to control positively the movement of said end portion to cutting position.

1,469,246. CAR-UNLOADING APPARATUS. OSCAR BIELER, Pittsburgh, Pa. Filed Aug. 30, 1920. Serial No. 406,960. 1 Claim. (Cl. 214—46.)



The combination with a track, of an apparatus for unloading hopper cars comprising a car receiving structure having wheels thereon by means of which it may be run along the said track, said structure having a track thereon of the same gauge as the track over which it is movable, a supplemental inclined track at each end of said structure over which a car may be rolled from said first track to the track on said structure, said supplemental tracks also having wheels by means of which they are movably supported on said first mentioned track, means on the structure for receiving material from the hopper cars, and laterally extending conveyors for discharging material to the side of the structure.

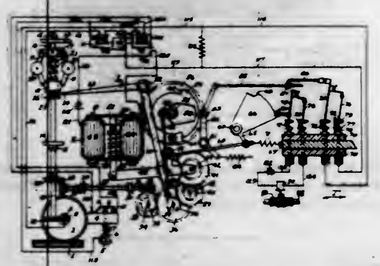
1,469,247. BRAKE MECHANISM FOR MOTOR VEHICLES. FERDINAND A. BOWER, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Feb. 7, 1920. Serial No. 356,869. 12 Claims. (Cl. 188—18.)



11. In brake mechanism of the class described and in combination with a motor vehicle having a rear driving axle, and a frame supported from said axle through side springs extending longitudinally of the vehicle; a rotatable brake drum concentric with said rear axle; a non-rotatable brake member; means associated with said

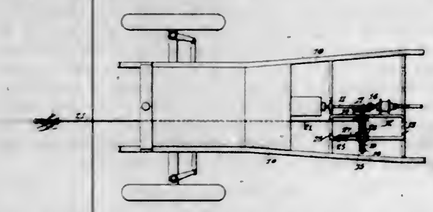
brake member for forcing the same into engagement with said brake drum; and a brake rod the rear end of which is operatively connected with said brake forcing means and the forward end of which is connected with a brake applying member at a point in substantial transverse alignment with the points of connection between the forward ends of said side springs and said frame.

1,469,248. AUTOMATIC TRAIN-CONTROL SYSTEM. CHARLES S. BUSHNELL, Sydney, New South Wales, Australia, assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed Dec. 16, 1916, Serial No. 137,409. Renewed Mar. 8, 1923. 50 Claims. (Cl. 246—181.)



37. An automatic train control system comprising automatic speed control apparatus on a vehicle, a run-down device governing said apparatus after a predetermined distance of travel of the vehicle while said apparatus is operating, and means partly on the vehicle and partly along the track for controlling the operation and restoration of said run-down device in accordance with traffic conditions.

1,469,249. AUTOMOBILE EXTRACTOR. WILLIAM NOBLE CLARK, Fayette, Mo. Filed Jan. 14, 1922. Serial No. 529,263. 4 Claims. (Cl. 74—7.)



1. In a device for the purpose set forth a frame, a spring controlled shaft arranged above and supported by said frame and further having its ends projecting outwardly from the frame, a drum fixed to said shaft and arranged within and normally spaced from said frame, a wedge shaped shifting element provided with a segmental slot through which passes said shaft, said element pivoted intermediate its ends to the inner face of one of the sides of the frame and permanently engaging said drum, and means connected to the upper end of said element for moving it upwardly and forwardly against the drum to shift the shaft against the action of its spring.

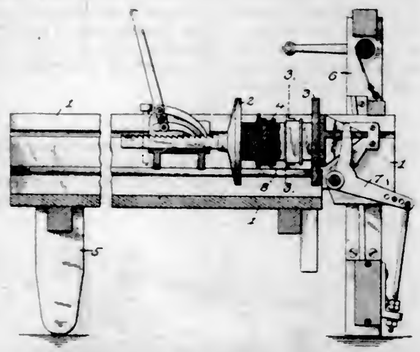
1,469,250. CAP FOR TIRE-VALVE TUBES. CORNELIUS F. CUNNINGHAM, Canton, Mass. Filed Mar. 15, 1922. Serial No. 543,832. 1 Claim. (Cl. 152—12.)

A cap for a tire valve tube having, in combination, a body portion provided with a passage extending therethrough, one end portion of said passage being of greater diameter than the other end portion thereof, thereby forming a shoulder intermediate the length thereof, a washer located within said passage, a screw engaging the wall of said passage and contacting with



said washer and positively forcing said washer against said shoulder and a second screw also having engagement with the wall of said passage and contacting with said first-named screw.

1,469,251. MANUFACTURE OF BRICK CHEESE. EDWARD C. DAMROW, Fond du Lac, Wis., assignor to Damrow Brothers Company, Fond du Lac, Wis., a Corporation of Wisconsin. Filed Dec. 16, 1921. Serial No. 522,751. 2 Claims. (Cl. 31—21.)

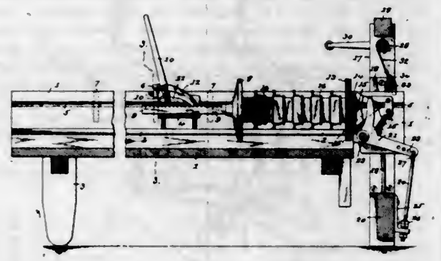


1. In a device for making brick cheese, a cheese mold, a plurality of filler plates formed to fit the cavity of the mold and arranged in spaced relation so as to divide said cavity into a plurality of sub-cavities of a brick form, and facings of porous fabric connected to the respective faces of said filler plates to afford outlets for the fluid portion of the material in the pressing operation.

2. In a device for making brick cheese, a cheese mold, a plurality of filler plates formed to fit the cavity of the mold and arranged in spaced relation so as to divide said cavity into a plurality of sub-cavities of a brick form, and facings of porous fabric wrapped around said filler plates to afford outlets for the fluid portion of the material in the pressing operation.

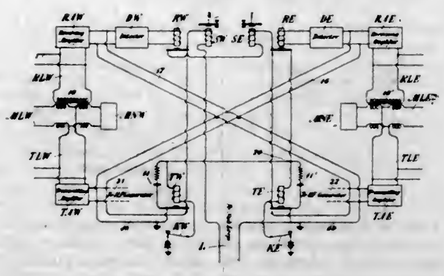
1,469,252. CONTINUOUS CHEESE PRESS. EDWARD C. DAMROW, Fond du Lac, Wis., assignor to Damrow Brothers Company, Fond du Lac, Wis., a Corporation of Wisconsin. Filed Dec. 16, 1921. Serial No. 522,752. 3 Claims. (Cl. 100—55.)

1. In a cheese press, the combination of an elongated press bed having supporting legs at one end upon which it is adapted to have pivotal movement in a vertical plane, an upright guide frame having guide tracks for guiding engagement with the movable end of the press bed, an adjustable abutment platen and a companion pressure platen having guiding engagement in aligned relation on the press bed and adapted for engagement with a gang of interposed cheese hoops, manual means for attaining a pressure movement of the abutment platen, means for automatically effecting a continuous pressure on the pressure platen, the same comprising a plurality of angle levers journalled in the press bed near its movable end, a cross head attached to the back



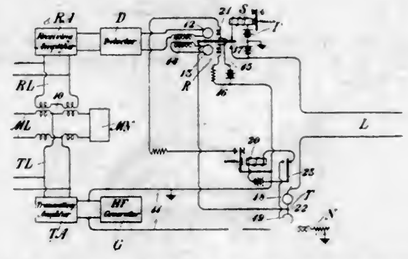
of the pressure platen and having a transverse web formed with orifices for engagement with the upright arms of said angle levers, and push rods attached at one end to the upright guide frame and at the other end to the other arms of the angle levers.

1,469,253. CARRIER TELEGRAPH CIRCUITS. RALPH WARNER DEARDORFF, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 21, 1920. Serial No. 418,478. 12 Claims. (Cl. 178—71.)



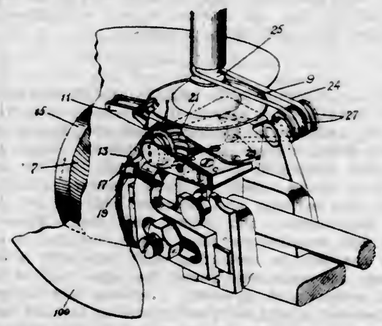
12. In a signaling system a pair of transmission line sections for transmitting carrier currents, a repeater apparatus for interconnecting said line sections, said repeater apparatus comprising carrier receiving channels associated with each line section and carrier transmitting channels associated with each line section, amplifying apparatus in each channel, means in each receiving channel for translating carrier currents into low frequency signaling currents, a direct connection between the amplifying means in the receiving channel associated with each line section and the amplifying means included in the corresponding transmitting channel associated with the other line section, transmitting relays for controlling said transmitting channels, receiving relays associated with said receiving channels, a telegraph circuit associated with said transmitting and receiving relays in such a manner that the windings of said transmitting relays will be in series with the contacts of said receiving relays, and condensers associated with the windings of said transmitting relays in such a manner that said condensers will be shunted by a portion of said telegraph circuit including the contacts of said receiving relays whereby a temporary holding current for said transmitting relays will be provided when the telegraph circuit is opened by the contacts of the receiving relays.

1,469,254. CARRIER TELEGRAPH CIRCUITS. RALPH WARNER DEARDORFF, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 21, 1920. Serial No. 418,479. 16 Claims. (Cl. 178—71.)



16. In a signaling system a pair of transmission line sections for transmitting carrier currents, a repeater for interconnecting said line sections comprising transmitting and receiving channels associated with each section, means associated with the receiving channels for translating the carrier currents into low frequency signals, receiving relays associated with each receiving circuit, connections extending from each receiving circuit in shunt with its translating means to the transmitting circuit associated with the opposite transmission line section, a telegraph loop, a balancing circuit at one end thereof, a polar relay having windings in the loop and in the balancing circuit, a connection from the junction point of said windings over the normal contact of at least one of said receiving relays to a source of current associated with the opposite end of the loop, said source being so poled as to be series aiding with respect to said first mentioned source, an auxiliary winding associated with at least one of said receiving relays and means whereby with said signaling relay in normal condition said auxiliary winding is energized in such a manner as to bias the armature of the receiving relay in the direction opposite from that which it assumes when carrier currents are received in the corresponding receiving channel and whereby when said transmitting relay is in abnormal condition said auxiliary winding is so energized as to hold the armature of the receiving relay from being shifted.

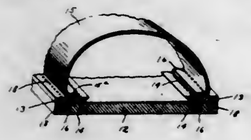
1,469,255. METHOD OF AND APPARATUS FOR FINISHING THE EDGES OF SHEET MATERIAL. NEWELL V. DYER, Holbrook, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 14, 1920. Serial No. 381,396. 14 Claims. (Cl. 69—1.)



14. A machine of the class described, having in combination, a rotary disk knife, a feed roll for advancing a piece of stock to the knife, a presser for holding the

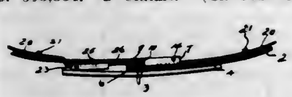
stock against the roll in front of the knife, a rotary tool adapted to burnish the edge of the stock in the locality engaged by the presser, and means for applying coloring matter to the edge of the stock before it reaches the burnishing tool.

1,469,256. TURNED SHOE. FORREST L. ELLISON, Exeter, N. H. Filed Jan. 27, 1923. Serial No. 615,193. 1 Claim. (Cl. 36—17.)



A turned shoe in which a welt is laid on the upper surface of the sole, and united to the sole by an inside row of stitches passing through the inner edge portion of the welt, and the inturned edge portion of the upper is united to the welt by inclined stitches passing through said inturned portion and through the central portion of the welt to the inner edge of the latter, and interlocked with said inside stitches, said shoe being characterized by a row of outside stitches uniting the outer edge portion of the welt to the sole, and holding down the outer edge portion of the welt upon the marginal portion of the sole.

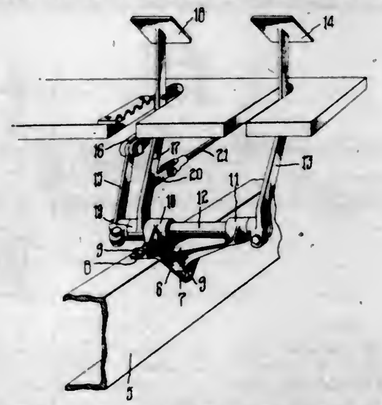
1,469,257. INVISIBLE BELT COUPLING. HUGH C. FOSTER, Kansas City, Mo., assignor of one-half to Adolph Pucker, Kansas City, Mo. Filed Nov. 25, 1922. Serial No. 603,334. 2 Claims. (Cl. 241—8.)



1. In an invisible belt for pants, the combination with the waist band of the pants, of a name plate disposed in front of the fly end portions of the waist band, a buckle member attached on the inner side of the overlapping fly end portion of the waist band and pivotally mounted on the inner side of said name plate, a buckle member attached on the outer side of the underlapped fly end portion of the waist band and detachably connected to said first mentioned member, a transverse slotted aperture in the underlapped fly end portion of the waist band rearwardly of said name plate, and a flexible elastic strip extending along the inner side of the waist band and through the aperture therein and adjustably connected with said buckle members.

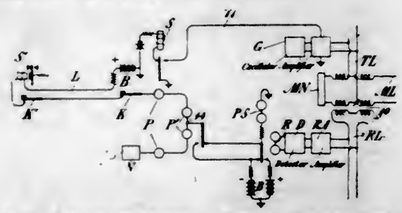
1,469,258. CLUTCH AND BRAKE LEVER SUPPORTING BRACKET. ALBERT G. GEISTERT, New York, N. Y., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 3, 1920. Serial No. 371,123. 6 Claims. (Cl. 74—81.)

1. In a motor vehicle, a frame member; a bracket having two bearings upon its upper side spaced apart from one another, and having also means upon its under side whereby the same may be secured to said frame member; an oscillating shaft supported in said bearings and extending across the upper end of said frame member; an upwardly extending foot operated lever secured to said shaft and located at one end thereof; an arm secured to the other end of said shaft and extending upwardly therefrom, and the free end of which arm is adapted to be connected with an operating rod; a second upwardly extending foot operated lever having means whereby it can be connected with a second operating rod, said second mentioned lever having a bearing at its lower end and through which



said shaft extends, said bearing being located between the inner of the bearings upon said bracket and the upwardly extending arm aforesaid.

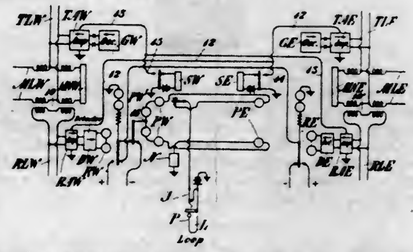
1,469,259. CARRIER TELEGRAPH CIRCUITS. BAXTER P. HAMILTON, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 21, 1920. Serial No. 418,485. 12 Claims. (Cl. 178—71.)



12. In a signaling system, a carrier transmitting circuit, a carrier receiving circuit, a low frequency telegraph line, a telegraph loop having its ends associated with said carrier channels and said telegraph line, balancing circuits associated with each end of said loop, a polar relay arrangement having windings in the end of said loop and the corresponding balancing circuit associated with said carrier channels, said polar relay arrangement controlling said carrier transmitting channel, a second polar relay arrangement having windings in the end of said loop and the corresponding balancing circuit associated with said telegraph line, a transmitting apparatus associated with said telegraph line, said transmitting apparatus being controlled by said second polar relay arrangement, a carrier receiving relay associated with said carrier receiving channel, a source of current connected to the junction point of the windings of said first mentioned polar relay arrangement over one contact of said carrier receiving relay, a telegraph receiving relay associated with said telegraph line, a source of current connected to the junction point of the windings of said second polar relay over one contact of said telegraph receiving relay, said second source being so poled as to be mutually aiding with respect to said first mentioned source, a third source connected to another contact of said carrier receiving relay, said third source being so poled that when the armature of the receiving relay is shifted and said second source is connected to the loop, said second and third sources will be mutually opposed, and a fourth source connected to another

contact of said telegraph receiving relay, said source being so poled that when the armature of said receiving relay is shifted and said first source is connected to the loop, said first and fourth sources will be mutually opposed, means controlled by said first polar relay arrangement whereby, when signals are transmitted over the loop from the opposite end thereof, said first mentioned source will be connected to the junction point of the windings of said first polar relay arrangement independently of the carrier receiving relay, and means controlled by said second polar relay arrangement whereby, when signals are transmitted over the loop from the opposite end thereof, said second source will be connected to the junction point of the windings of said polar relay arrangement independently of said telegraph receiving relay.

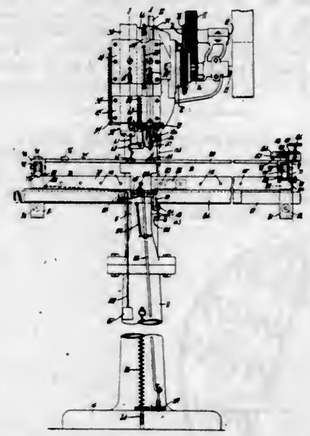
1,469,260. CARRIER TELEGRAPH CIRCUITS. BAXTER P. HAMILTON, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 21, 1920. Serial No. 418,486. 5 Claims. (Cl. 178—71.)



5. In a signaling system, a pair of transmission line sections over which carrier currents may be transmitted, a carrier repeater apparatus for interconnecting the ends of said line sections, said repeater apparatus comprising carrier transmitting channels and carrier receiving channels associated with each line section, means for interconnecting the carrier receiving channel of each line section with the carrier transmitting channel of the opposite line section, a low frequency telegraph circuit, a balancing circuit therefor, a pair of polar relays each having windings in the telegraph circuit and in the balancing circuit, the windings of said polar relays in said telegraph circuit being mutually in series and the windings of said polar relays in the balancing circuit being mutually in series, means operated by at least one of said polar relays for controlling the transmission of carrier currents from one of said carrier transmitter channels to a line section, a receiving relay associated with at least one of said carrier receiving channels, a source of current connected to the junction point of the windings of said polar relays over one contact of said receiving relay, a second source of current connected to the opposite end of said telegraph circuit, said second source being so poled as to be mutually aiding with respect to the first source, and a third source connected to another contact of said receiving relay, said third source being of opposite polarity from said first source, and means controlled by one of said polar relays whereby when signals are transmitted to the polar relays over said low frequency telegraph circuit, said first mentioned source will be connected to the junction point of the windings of said relays independently of said receiving relay.

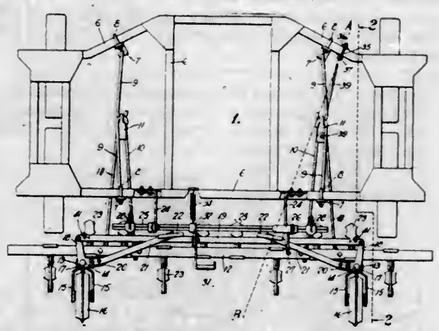
1,469,261. MACHINE FOR PUNCHING AND RIVETING SHEET MATERIAL. ARTHUR R. HAVENER, Wayland, Mass., assignor to Judson L. Thomson Mfg. Co., a Corporation of Massachusetts. Filed Dec. 5, 1922. Serial No. 605,060. 5 Claims. (Cl. 218—3.)

5. A machine for punching and riveting sheet material having, in combination, punching instrumentalities including a punch, rivet setting instrumentalities including a rivet driver, mechanism adapted to impart a reciprocatory motion to said punch and to said driver and means to disengage either said punch or said



driver from said mechanism, a work support movable relatively to said punch and driver and means mounted on said work support and movable therewith to clamp a plurality of sheets of material together and to said work support.

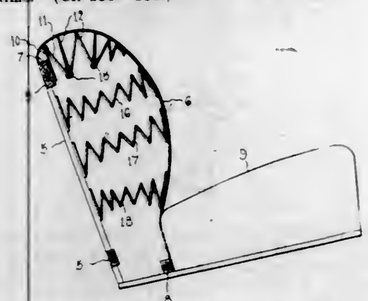
1,469,262. TRACTOR CULTIVATOR ATTACHMENT. ALVARO S. KROTZ, Janesville, Wis., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 16, 1920. Serial No. 403,900. 11 Claims. (Cl. 97—156.)



1. In a cultivating device and in combination with a tractor or vehicle frame having transversely extending front and rear cross bars, two pairs of draw rods the upper ends of the rods of each pair being pivotally connected one with one and the other with the other of said cross bars, and the rods of each pair being inclined downward and toward one another and the lower ends of the rods of each pair lying adjacent one another; two draw bars the forward ends of which are pivotally connected one with the lower ends of one pair and the other with the lower end of the other pair of said pairs of draw rods; a shovel carrying bar with which the rear ends of said draw bars are fixedly connected; two brackets carried by said shovel carrying bar and which brackets are provided each with a vertically extending bearing; two oscillating wheel supporting shafts supported one in each of said bearings; two wheel supporting members secured one to the lower end of each of said shafts and extending rearwardly therefrom; two supporting and guid-

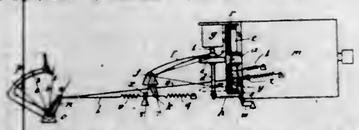
ing wheels supported one by each of said wheel supporting members, and which wheels are adapted to run upon the ground; two bell-crank levers secured one to the upper end of each of said shafts; a bar extending between two of the arms of said bell crank levers and serving to connect said arms with one another to thereby secure simultaneous movement of said shafts; and two foot operated levers carried one by each of the other arms of said bell crank levers and the free ends of which are disposed adjacent one another.

1,469,263. UPHOLSTERY FOR SEAT BACKS. BRAZIL E. LAMBERT, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Nov. 24, 1919. Serial No. 340,097. 2 Claims. (Cl. 155—181.)



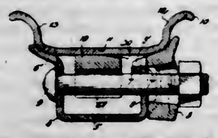
1. In an upholstered seat back, a suitable spring supporting back frame; a top row of coil springs each having a plurality of convolutions or coils substantially circular in form and of progressively decreasing diameter and in which two successive ones of said coils are secured together at a common point; other coil springs carried by said back frame and located below said top springs; and a fabric covering secured to said back frame and extending over the free ends of said several springs.

1,469,264. REGENERATIVE BRAKING SYSTEM FOR ELECTRICALLY-DRIVEN VEHICLES. HILDING LUBECK, Herserud, Sweden. Filed Dec. 28, 1918. Serial No. 268,713. 6 Claims. (Cl. 188—159.)



1. In a regenerative braking system for electrically driven vehicles the combination with the driving motor, of a generator connected across the field winding of the motor and means for mechanically driving said generator from the shaft of the motor, said means comprising a variable transmission device for varying the speed of the generator.

1,469,265. WHEEL. WALTER B. MINCH, Jackson, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 6, 1921. Serial No. 475,377. 3 Claims. (Cl. 301—30.)



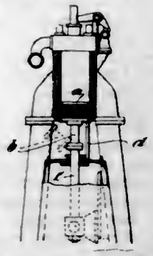
1. In a device of the class described, a transversely split rim, a latch for securing said rim ends together, said latch provided with projections for engaging each side of a driving bolt, a pivoted retainer for said latch, the pivot of said retainer being hollow to provide a valve stem opening, substanially as shown and described.

1,469,266. SPOOL HOLDER. JANE E. NEEDHAM, Brooklyn, N. Y. Filed Aug. 2, 1922. Serial No. 579,274. 2 Claims. (Cl. 242—136.)



1. As a new article of manufacture, a holder for spools, balls and the like comprising a ball and spool receiving spindle, a ball and spool stop carried by the lower end of the spindle, and an open wrist receiving bracelet having one end formed integral with the upper end of the spindle, and its opposite end gradually tapered, the bracelet being flexible, as and for the purpose specified.

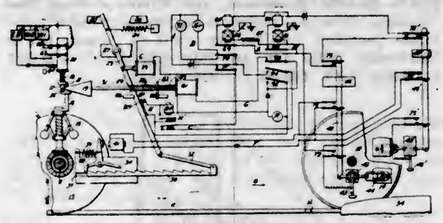
1,469,267. METHOD OF REMOVING THE PISTONS FROM PISTON ENGINES. VIKTOR REMBOLD, Kiel, Germany. Filed Sept. 22, 1921. Serial No. 502,536. 1 Claim. (Cl. 29—84.)



The method for the removal of the piston through the open outer end of the cylinder of a Diesel-motor or like internal combustion engine in which the piston rod is made in two parts, which consists in temporarily supporting the piston, removing the part of the piston rod near the piston, moving the remaining portion of the piston rod up to support the piston, then removing the temporary support and lowering the remaining portion of the piston rod for withdrawing the piston from the cylinder.

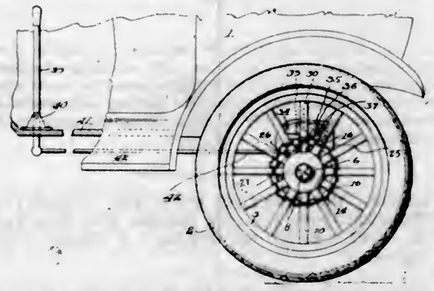
1,469,268. SPEED-CONTROL APPARATUS FOR RAILWAY CARS. CARL A. RICHMOND, New York, N. Y., assignor to The General Railway Signal Company, a Corporation of New York. Filed Sept. 13, 1916, Serial No. 119,840. Renewed Jan. 2, 1923. 54 Claims. (Cl. 246—182.)

1. In combination, a one way track, a car thereon, a safety appliance for excessive speed on the car, apparatus for controlling said appliance adapted to change progressively under successive influences to impose decreasing speed limitations, a series of ramps along this track, a shoe on the car to engage said ramps in passing, means to condition the ramps alike in groups according to the location of a car ahead on the track, and means on the



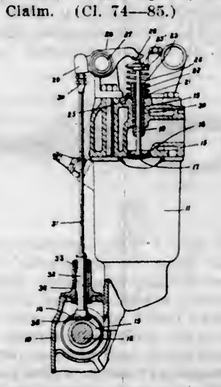
car responsive to the engagement of the shoe with the ramps and effective to exert successive influences on said apparatus depending upon the condition of said ramps.

1,469,269. EMERGENCY WHEEL LOCK. DAVID C. ROSE, Fort Montgomery, N. Y. Filed Aug. 7, 1922. Serial No. 580,102. 4 Claims. (Cl. 188—30.)



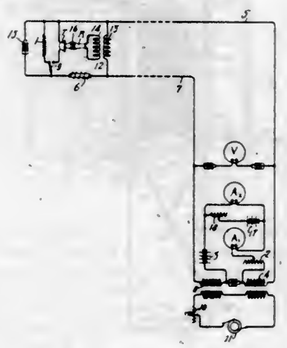
1. In a wheel locking device for vehicles, the combination with the hub of a wheel, a brake carrying plate cooperating therewith, a cam, an annular rack, means to secure the rack to the wheel and intermeshing gears to operate the pawl, of a lever in the body of the car and mechanism between the lever and the gears whereby upon the movement of the lever the cam throws the pawl into and out of operative engagement with the annular rack to positively and effectively lock the wheel.

1,469,270. GUIDE MEMBER FOR VALVE-OPERATING MECHANISM OF INTERNAL-COMBUSTION ENGINES. CHARLES R. SHORT, Detroit, Mich., assignor to General Motors Company, Detroit, Mich., a Corporation of New Jersey. Filed Apr. 6, 1917. Serial No. 160,128. 1 Claim. (Cl. 74—85.)



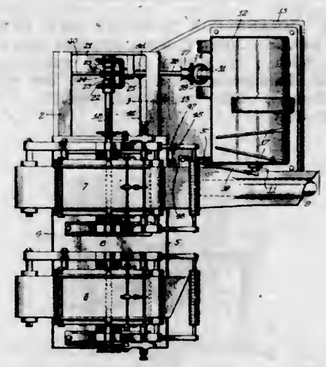
In an internal combustion engine, the combination with a metallic guide sleeve having a stepped inner periphery, a reciprocating metallic valve member mounted therein and periodically subjected to lateral stresses, and a hard wear resisting nonmetallic bushing pressed into the stepped portion of said guide sleeve to receive the shocks due to said lateral stresses.

1,469,271. TESTING SYSTEM. HARVEY FLETCHER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 19, 1922. Serial No. 595,503. 7 Claims. (Cl. 179—175.)



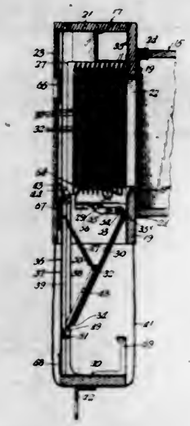
1. The method of determining the efficiency of a subscriber's transmitter which comprises subjecting the transmitter to a definite agitation, indirectly measuring the alternating voltage generated by said transmitter by means of a device responsive to change in direct current through the transmitter, and comparing said voltage to the voltage generated by a standard transmitter when subjected to the same conditions.

1,469,272. TIRE-BUILDING MACHINE (HORIZONTAL ADJUSTMENT.) WALTER H. HERMANN, Lancaster, Ohio, assignor to The Herman Tire Building Machine Company, Columbus, Ohio, a Corporation of Ohio. Filed Dec. 26, 1918. Serial No. 268,401. 10 Claims. (Cl. 154—10.)



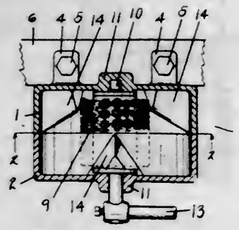
1. Means for supplying different kinds of material to a driven tire building core comprising material carrying machines adapted to be shifted back and forth in a horizontal plane at a right angle to the vertical plane of the driven core so that the material from either machine may be used on the core, power shifting means for said machines operatable in synchronism with said core, and adjustable stops carried by said machines adapted to cause a cessation in the operation of said power shifting means when one of said machines is correctly positioned relative to the core.

1,469,272. CAMERA. GEORGE W. KAUSER, Chicago, Ill.; Elsie Buchan Kauser administratrix of said George W. Kauser, deceased. Original application filed Apr. 3, 1920, Serial No. 370,985. Divided and this application filed Mar. 5, 1921. Serial No. 449,677. 6 Claims. (Cl. 15—30.)



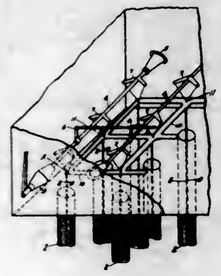
1. A plate changer of the kind described, comprising in combination with the magazine for a plurality of septums, a backing member normally providing the rear end of said magazine, said backing member having a yielding abutment adapted to engage one end of the rear septum, a swinging shifter plate associated with said backing member, adapted to shift a septum into position at an angle to said backing member, pusher members spaced forwardly from said backing member, and positive means associated with said shifter member controlled by the outward and inward movement of the plate changer for swinging said shifter member.

1,469,273. MEANS FOR WASHING AND CLEANING GOLF BALLS. JOHN F. KING, deceased, late of Kalamazoo, Mich.; by Merrill B. King and Dorothy A. Creamer, Kalamazoo, Mich., executor and executrix. Filed June 6, 1922. Serial No. 566,378. 3 Claims. (Cl. 15—21.)



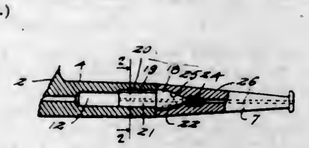
1. In a golf ball washing machine, the combination of a cylindrical casing suitably divided with alternating oppositely-disposed triangularly-formed pyramidal deflectors with their apexes inwardly disposed, and a cylindrical brush revolving centrally of the cylinder to advance the balls and clean the same, coacting as specified.

1,469,275. APPARATUS FOR ELECTRICAL PRECIPITATION OF SUSPENDED PARTICLES FROM GASES. ERWIN MÖLLER, Brackwede, and WILHELM HOSS, Bad Homburg, Germany, assignors to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed Jan. 16, 1922. Serial No. 529,662. 4 Claims. (Cl. 183—7.)



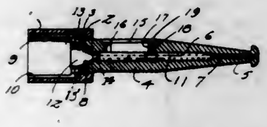
1. An electrical precipitator comprising collecting electrodes and discharge electrodes, each discharge electrode comprising a plurality of electrode elements contacting with one another, and means for moving said electrode elements on one another to cause deposited material to be dislodged therefrom.

1,469,276. COMBINATION PIPE AND CIGARETTE HOLDER. PAUL J. SITTER, Oshkosh, Wis. Filed July 21, 1922. Serial No. 576,521. 3 Claims. (Cl. 131—12.)



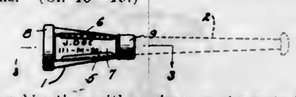
3. In a device as described, a stub-stem having a longitudinal groove, and a separable coupling device comprising an axially bored member having one end thereof provided with a longitudinal rib adapted to snugly fit within said longitudinal groove and the other end provided with a tapered nipple terminating in a threaded pipe stem engaging portion.

1,469,277. COMBINATION CIGAR AND CIGARETTE HOLDER. PAUL J. SITTER, Oshkosh, Wis. Filed Nov. 4, 1922. Serial No. 599,011. 3 Claims. (Cl. 131—10.)



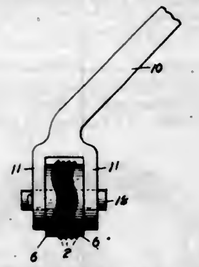
3. A combined cigar and cigarette holder including an outer barrel, an inner barrel movable longitudinally therein, said barrels being respectively adapted to hold cigars and cigarettes, a stem coacting with both of said barrels, said outer barrel provided with diametrically opposed grooves in the inner walls thereof, lugs on said inner barrel operating in said grooves, the inner barrel being adapted for partial rotation within the outer barrel in the disposition of said inner barrel to adjusted positions, and means in connection with said stem for retaining the inner barrel in its adjusted positions.

1,469,278. ADVERTISING ATTACHMENT FOR CIGAR AND CIGARETTE HOLDERS. PAUL J. SITTER, Oshkosh, Wis. Filed Dec. 13, 1922. Serial No. 606,631. 5 Claims. (Cl. 40—10.)



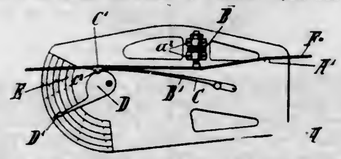
1. In combination with a cigar or cigarette holder provided with a mouthpiece, of a card holder associated therewith, a card receivable in the said card holder, and means carried by said first mentioned holder for retaining said card holder thereon.

1,469,279. FACING OR CUTTING TOOL. CHARLES FRENCH SNYDER, Pittsburgh, Pa. Filed May 24, 1920. Serial No. 383,687. 7 Claims. (Cl. 29—103.)



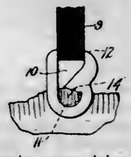
1. A cutter for forming a granulated surface on metallic articles comprising a plurality of disks having serrated peripheral edges, the edges being sinuously curved with the curved parts of adjacent disks interfitting.

1,469,280. TENSILE-STRESS DETERMINING DEVICE. KARL STAHL, Friedrichshafen, Germany, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Filed June 28, 1920. Serial No. 392,603. 5 Claims. (Cl. 265—1.)



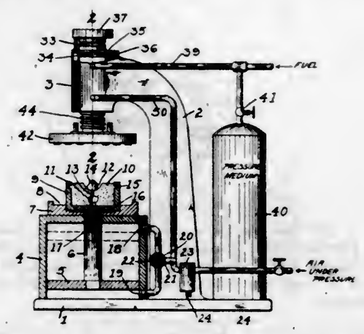
1. In a device of the kind described in combination, three guide members not disposed in one straight line, one of said members being adapted to move resiliently relatively to the other members and means for adjusting one of said other members to different wire or rope diameters.

1,469,281. GARTER. WILLIAM H. STEVENS, New York, N. Y. Original application filed July 17, 1917, Serial No. 180,990. Divided and this application filed Sept. 26, 1918. Serial No. 255,782. 5 Claims. (Cl. 24—264.)



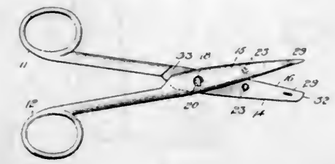
1. A garment supporter comprising a substantially flat open centered frame, a gripping tongue resiliently connected to said frame and substantially filling the opening therein, the free end of said tongue being normally flexed beyond the plane of the frame.

1,469,282. CASTING MACHINE. LEON A. STORZ, Worcester, Mass. Filed Nov. 1, 1920. Serial No. 421,120. 11 Claims. (Cl. 22—69.)



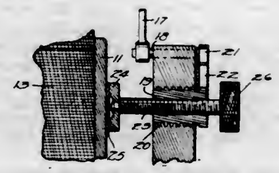
1. In a machine of the class described, the combination with a standard carrying a valve mechanism and a vertically movable flask located below said valve mechanism for receiving a mold, of fluid pressure operated means for moving the flask in the direction of the valve mechanism to operate said mechanism.

1,469,283. SCISSORS. CHARLES R. STORZ, Brooklyn, N. Y. Filed Aug. 6, 1921. Serial No. 490,332. 15 Claims. (Cl. 30—13.)



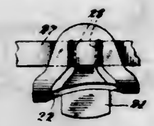
1. A detachable cutting blade having a concave recess and a non-circular orifice through a portion of said recess.

1,469,284. BRAKE AND TENSION DEVICE. ERVIN E. STRAWN, Des Moines, Iowa. Filed Mar. 10, 1922. Serial No. 542,810. 8 Claims. (Cl. 242—75.)



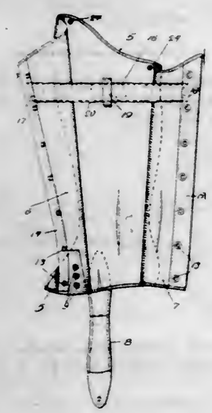
3. A structure of the class described, comprising a frame, a rotary device mounted thereon, a sleeve having a screw-threaded connection with the frame, a shoe supported on said sleeve adjacent to the rotary device, a pivotally mounted arm, a roller supported on said arm, and means interposed between said arm and said sleeve for rotating the sleeve according to the pivotal movement of the arm for imparting axial movement to the sleeve to bring the shoe into engagement with the rotary device to perform a braking function, said means being arranged to become inoperative when the arm swings in either direction past certain positions.

1,469,285. GUN REST FOR SPORTSMEN. GEORGE THOMPSON, New York, N. Y. Filed Oct. 14, 1922. Serial No. 594,426. 6 Claims. (Cl. 224—1.)



1. A gun rest having a curved seat for the stock of a gun provided with a central opening for the passage of the trigger guard, and having a vertical tongue to engage a belt of ordinary character, and support the gun rest thereupon.

1,469,286. LEGGING. FRANK E. TONIUTTI, Forest Park, Ill. Filed Aug. 10, 1922. Serial No. 580,878. 4 Claims. (Cl. 36—2.)

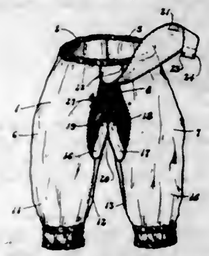


1. A legging having front and back creased edges, and comprising a side legging member, front and back side leging members secured to the other side member at the front and rear edge portions thereof, fastening members for securing said front and back side members together and an elastic strip secured to the free edge portions of said front and back members, adjacent their upper ends, said elastic strip being free from the creases at the front and back, whereby the upper end of the legging may be secured on the leg of a user without disturbing the creases.

4. A legging comprising overlapping front and back side legging members, snap fasteners for securing together the overlapping portions thereof, the free edge portion of the inner side member being doubled upon itself and stitched to the outer face of the legging member, to leave a projecting rib forming with said face a trough for shedding water.

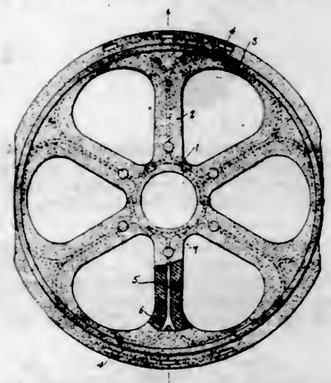
1,469,287. BLOOMERS. JOSEPH TORCHIA, Cincinnati, Ohio. Filed Aug. 12, 1922. Serial No. 581,337. 3 Claims. (Cl. 2—122.)

1. In a bloomer having a rear central opening extending from substantially at the waist-band to the front of the crotch, a closing flap attached at the rear of the bloomer substantially at the waist-band of the bloomer



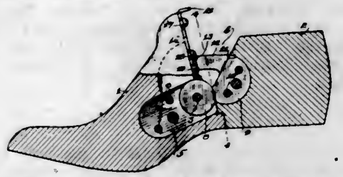
and adapted to extend over said opening and crotch to close the opening, and to be detachably connected to the front of the bloomer.

1,469,288. WHEEL. GEORGE WALTHER, Dayton, Ohio, assignor to The Dayton Steel Foundry Company, Dayton, Ohio, a Corporation of Ohio. Filed July 5, 1922. Serial No. 572,831. 13 Claims. (Cl. 22—13.)



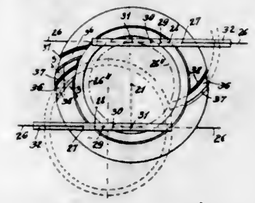
1. In an apparatus for making cores, a core plate for one half of the core, a second core plate for the other half of the core, separable means for pivotally connecting said core plates to one another whereby the halves of the cores may be joined together and be transported as a unit.

1,469,289. LAST FOR MAKING FOOTWEAR. FRED WEGNER, Fairport, N. Y., assignor, by mesne assignments, to United Last Company, Auburn, Me., a Corporation of Maine. Filed Dec. 13, 1921. Serial No. 522,130. 5 Claims. (Cl. 12—136.)



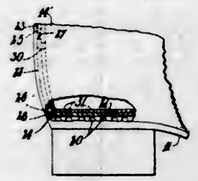
1. In a last, a forepart, a heel part, mechanism connecting them and arranged to permit relative movement to collapse the last, an abutment member on one last part arranged to enter the other in collapse, and a locking member on the other last part arranged to engage the abutment positively to hold the last in extended position, said locking member having a surface arranged to cooperate with the abutment when the locking member is moved sideways in the last to permit collapse by pressure.

1,469,290. TOOTHED GEAR. HARVEY D. WILLIAMS, Wallingford, Conn., assignor, by mesne assignments, to Security Trust Company, Detroit, Mich., a Corporation of Michigan. Filed June 11, 1918. Serial No. 239,354. 19 Claims. (Cl. 74—41.)



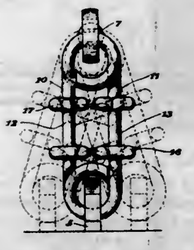
1. A gear having teeth with active surfaces of spherical curvature, the sphere-center of any one of said surfaces lying exteriorly of the tooth on which such surface is located.

1,469,291. WATERPROOF BOOT. DEZSÖ BOJTOS, Roebling, N. J. Filed May 18, 1922. Serial No. 561,796. 3 Claims. (Cl. 36—3.)



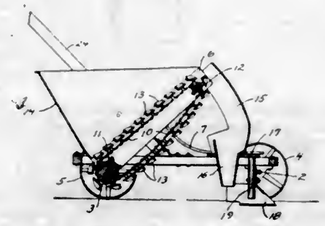
1. In a water proof boot, a main sole, an insole resiliently supported above said main-sole, and a pair of tubes leading downwardly through the wall of the boot and communicating respectively with the space under said insole and the interior of the boot at a distance above the insole, said tubes having one-way valves therein operating oppositely for the respective tubes.

1,469,292. RELEASE RIGGING FOR RAILWAY-CAR COUPLERS. MILLARD F. COX, Louisville, Ky., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 26, 1921. Serial No. 510,479. 2 Claims. (Cl. 213—166.)



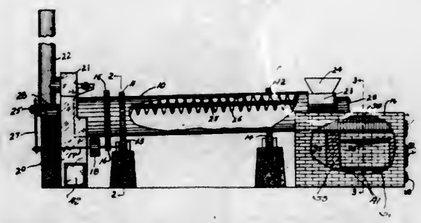
1. In a car coupler release rigging, a pin lifting link formed of two parts adapted to slide over each other, each respective part formed of two independent members, the adjacent ends of each set of members having a sliding connection with the body of the other part, and the opposite ends provided with eyes, one of which is reduced in thickness and the other slotted to receive the reduced portion for embracing the lock pin and operating crank by passing through the respective eyes thereof.

1,469,293. ONION-SET-DISTRIBUTING MACHINE. ALLEN D. CRAMER, Pleasant Valley, Iowa, assignor of one-half to Arthur E. Cramer, Pleasant Valley, Iowa. Filed Mar. 15, 1923. Serial No. 625,406. 2 Claims. (Cl. 221—128.)



1. A device of the class described, comprising a main frame and running gear therefor; a frame rockingly mounted on said main frame having a space longitudinally thereof; a seed receptacle mounted on said rocking frame, the sides of which incline towards the rocking point of said frame; means for holding said spaced frame in adjusted inclined positions; an elevating device operable in the space in said rocking frame, provided with a plurality of uniformly spaced seed buckets; means for imparting movement to said elevating devices from said running gear; and fixed means for directing the seed in its discharge from the elevating devices downwardly to the ground.

1,469,294. DRIER. ARTHUR C. DAMAN, Denver, Colo. Filed June 26, 1922. Serial No. 570,822. 5 Claims. (Cl. 34—6.)

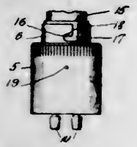


4. In a drier the combination with a revolving drum, of a furnace opening into one end of said drum; a fire-box contained within said furnace, the walls of said fire-box being spaced away from the walls of said furnace and terminating below the top thereof; a closed bottom in said fire-box and means for allowing air to pass under said closed bottom and into the spaced between said spaced walls.

1,469,295. ADAPTER. HAROLD POTTER DONLE, Meriden, Conn., assignor to The Connecticut Telephone & Electric Co., Inc., Meriden, Conn., a Corporation of Connecticut. Filed Jan. 19, 1920. Serial No. 352,310. 5 Claims. (Cl. 173—344.)

2. In an adapter of the character described, a block of insulating material having a cavity therein forming a cup-shaped base, a metallic locking sleeve embedded in the material of said block interiorly of said cavity, said cup-shaped base having a passage extending through the bottom thereof and into the cavity, a contact plunger slid-

able in said passage, and a spring for urging said contact plunger outwardly in said cavity, said plunger having a



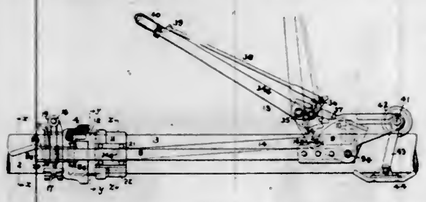
contact head on the end within said cavity and a contact head on the opposite end on the outside of said cup-shaped base.

1,469,296. METHOD OF MAKING BELL GUIDES. ELWOOD R. DAVIS, West Haven, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Original application filed Dec. 15, 1921, Serial No. 522,461. Divided and this application filed July 20, 1922. Serial No. 576,251. 7 Claims. (Cl. 29—148.)



1. The method of making a bell guide, which consists in cutting away parts of a seamless tube to leave a cylindrical body with integral feet, and then upsetting and expanding such body to bell the opening therethrough.

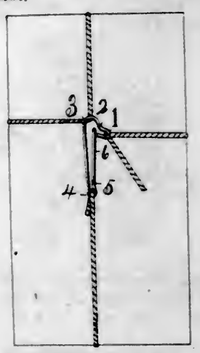
1,469,297. CALKING MACHINE FOR PIPE JOINTS. WILLIAM H. FLINT, Birmingham, Ala. Filed Mar. 18, 1919. Serial No. 283,379. 21 Claims. (Cl. 78—47.)



1. A calking machine for making a bell and spigot pipe joint, comprising a detachable head adapted to engage the body of the pipe adjacent to the bell end thereof and provided with clamping means for clamping the head upon the pipe, calking means carrying a calking tool and adapted to move longitudinally relatively to the spigot end of the pipe engaging said bell, and manually operable devices having their weight supported upon the spigot pipe end and connected with the detachable head and with the calking means whereby the calking means is made to move toward the detachable head in the act of forcing the calking tool against the calking materials in the socket of the bell and also permitting said calking tool to be positively moved away from the detachable head in the act of removing the calking tool from contact with the calking material in the socket of the bell.

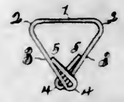
1,469,298. TIE FASTENER. DAVID G. GALBRAITH, Mineral Wells, Tex. Filed Sept. 19, 1919. Serial No. 324,822. 2 Claims. (Cl. 24—18.)

1. A tie fastener, consisting of a wire bent in a single curve intermediate its length to provide two arms extending laterally with respect to each other, one of said arms being longer than the other and each of said arms being formed with a return bend providing respectively a long and short pinch slot.



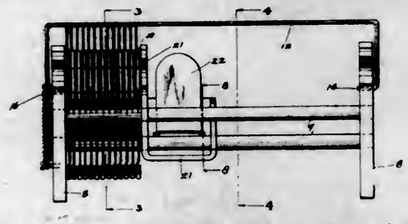
2. The structure specified in claim 1, and having the returned free ends of said bends substantially contacting each other at an acute angle.

1,469,299. CLAMP FOR HOLDING FILES, BUNDLES, AND SUCH LIKE. DAVID G. GALBRAITH, Mineral Wells, Tex. Filed July 21, 1920. Serial No. 397,842. 2 Claims. (Cl. 24—261.)



1. A paper clamp formed of spring wire, and having substantially the shape of an equiangular triangle, said clamp comprising a base, converging spring jaws at the ends of the base, the free end of each jaw being turned in and doubled back to contact with said jaw substantially midway of its length, the jaws crossing a slight distance from the doubled ends.

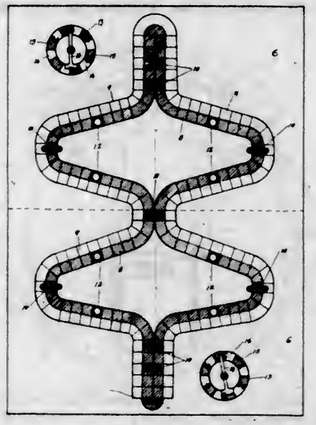
1,469,300. LAUNDRY APPLIANCE. ANGUS F. HANNEY, Chicago, Ill. Filed Aug. 2, 1920. Serial No. 400,849. 12 Claims. (Cl. 211—14.)



1. A device of the class described comprising a holder adapted and arranged to receive markers; means for detachably holding said markers in said holder in the order received; means for preventing the removal of said markers from said holder; and means for holding said holding means in its operative position when said markers are being received or removed from said holder.

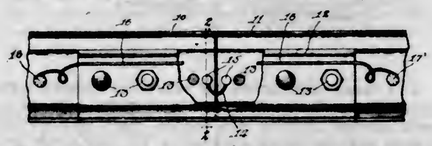
1,469,301. GAME. LAURENCE F. HANKE and WARREN J. STINSON, Chicago, Ill. Filed Apr. 17, 1920. Serial No. 374,729. 7 Claims. (Cl. 46—63.)

1. A game comprising a field having parallel courses leading to a common destination, one of said courses being a favorable route and another of said courses being an unfavorable route said routes being of different colors;



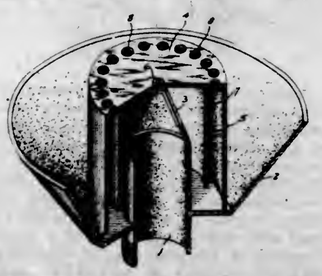
and indicating means having colors corresponding to said routes to determine the advance over one of the other of said routes, substantially as described.

1,469,302. MULTIPLE BOND FOR SIGNAL-SERVICE TRACK-CIRCUIT RAILS. CLINTON O. HARRINGTON, Chicago, Ill., assignor to Aldobilt Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 24, 1920. Serial No. 412,540. 1 Claim. (Cl. 173—262.)



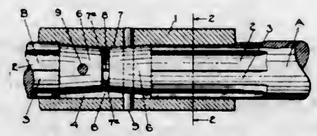
The combination of two signal service track rails abutting each other end to end, a fish plate and bolts holding the rails together, a relatively short low electrical resistance conductor electrically bonded to each rail near the abutting ends thereof and located at a relatively difficultly accessible part of the rails respectively and protectively covered by the rail parts, and an auxiliary conductor having its end portions electrically bonded to the rails respectively at places respectively where the connections are open to ready inspection and repair.

1,469,303. FLOOR DRAIN. ARTHUR HESS and SAMUEL L. MARSH, Los Angeles, Calif. Filed Nov. 14, 1922. Serial No. 600,844. 4 Claims. (Cl. 182—13.)



1. A drain comprising a tubular outlet, a cup extending laterally therefrom intermediate its ends, an inner hood wall closed at the top nested over and spaced above the top of said outlet, and an outer hood wall spaced from said inner hood wall and having seepage inlets along the lower edge, there being drainage inlets to the space between said walls, said outlets and said hood walls forming a bell trap.

1,469,304. SHAFT COUPLING. FREDERICK G. HUGHES, Bristol, Conn., assignor to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut. Filed June 16, 1921. Serial No. 477,971. 5 Claims. (Cl. 287—108.)



1. In a device of the character indicated, a sleeve and a shaft, each provided with cooperating splines, said shaft having a tapered portion and said sleeve having a cooperating tapered socket, the said splines of the shaft being upon the body-portion of the latter and the said tapered portion of said shaft extending beyond said body portion; substantially as described.

1,469,305. ROTARY JAR. JAMES ALLEN KAMMERDINER, Montebello, Calif. Filed Oct. 30, 1922. Serial No. 597,726. 7 Claims. (Cl. 255—27.)

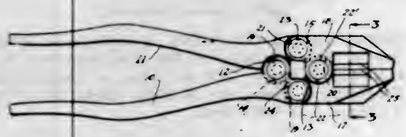


1. A rotary jar adapted to be connected in a string of pipe comprising a bowl section having a chamber provided with a pocket at one end, a tubular T slidably extending into said chamber and having a head arranged to fit within said pocket and means to connect the bore of said T with said bowl so as to provide a closed expansible passage through said jar, the head of said T being arranged to be disposed out of said pocket and to rest upon the end across said pocket or to be disposed in said pocket at will.

1,469,306. PLIERS. ELIAS AUGUST KAUFFMAN, Chicago, Ill. Filed Oct. 25, 1922. Serial No. 596,782. 3 Claims. (Cl. 294—36.)

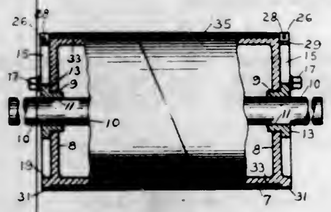
1. Pliers of the character described including shank portions disposed side by side, said shank portions being provided with oppositely disposed broadened inner ends of the same character, there being means for pivoting the

adjacent portions of said broadened ends together; jaws disposed side by side and having oppositely disposed broadened inner ends of the same character as said



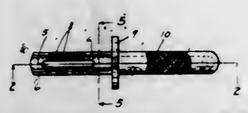
shanks, there being means for pivotally connecting the adjacent portions of said jaws together, and for pivotally connecting the adjacent portions of the inner ends of said jaws and said shanks.

1,469,307. SANDPAPERING ROLL. GEORGE R. KELTIE, Woonsocket, R. I., assignor, by mesne assignments, to American Wringer Company, Inc. Filed Feb. 23, 1922. Serial No. 538,746. 1 Claim. (Cl. 51—194.)



In a roll for sand papering machines, a tubular core having a peripheral depression, a cylindrical rubber layer embracing the core and seated in said depression, and a spirally disposed sheath of sand paper wound around said layer and means embracing the ends of said sand paper to retain the same in place, the rubber layer being vulcanized to the core.

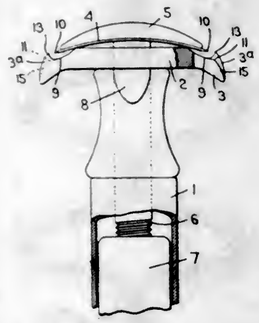
1,469,308. GREASE GUN. FRANK E. KRONENBITTER, Maywood, Ill. Filed July 5, 1921. Serial No. 482,342. 6 Claims. (Cl. 221—47.)



1. A grease gun for vehicle springs comprising a nozzle adapted to be inserted between the leaves of a spring there being longitudinal openings in said nozzle, and transverse grooves communicating with said openings; and means for supplying grease to said nozzle, substantially as described.

1,469,309. SAFETY RAZOR. JOHN HOWARD LACY, Boston, Mass. Filed Mar. 11, 1922, Serial No. 543,057. Renewed Aug. 3, 1923. 4 Claims. (Cl. 30—12.)

1. A safety razor comprising a blade-supporting head having a guard, a transversely-flexible blade and means for adjustably clamping said blade to said head, said head having a channel behind the guard and situated beneath the cutting edge of the blade, which channel extends the full length of the blade so that the cutting edge of the blade throughout its length is separated slightly from any portion of the head, the portions of the guard opposing the corners of the blade having their outer faces



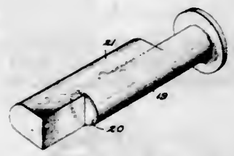
situated slightly above the remaining portion of the guard thereby amply guarding but permitting the use of said blade corners.

1,469,310. FRAME FOR VEHICLES. RALPH M. LOVEJOY, Meredith, N. H. Filed Apr. 25, 1922. Serial No. 556,488. 8 Claims. (Cl. 280—106.5.)



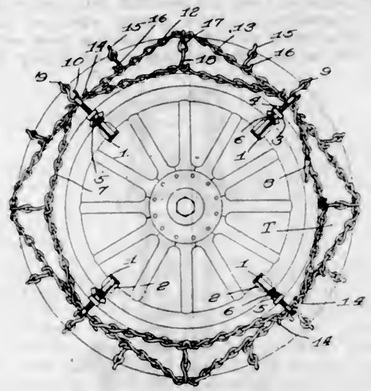
1. A frame construction for vehicles comprising a pair of connected complementary metallic side bars having main channel portions and median offset portions comprising webs extending downwardly from the lower walls of the channels and provided with inwardly extending flanges.

1,469,311. APPARATUS FOR HANDLING PULVERULENT MATERIAL. GEORGE S. COMSTOCK, Jr., Steelton, Pa., assignor to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Apr. 14, 1920. Serial No. 373,803. 2 Claims. (Cl. 302—58.)



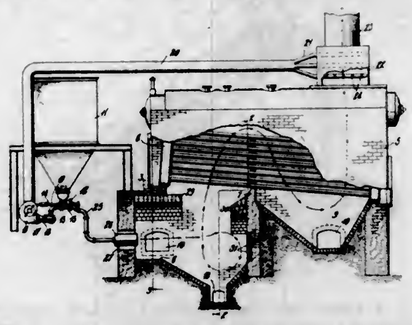
1. A suction nozzle for handling pulverulent material comprising an open ended tube, one end of which constitutes an intake opening for pulverulent material and air, and the other end of which is adapted to be connected to a suction hose, and a second tube secured to one side of said first tube and extending forwardly beyond the intake opening of the first tube, said second tube having its rear end open to the air and its forward end closed and extending in front of a portion of the intake opening of the first tube to constitute a guard preventing the entrance of pulverulent material into said portion of the intake opening, and to conduct air to said intake opening to prevent clogging of the same by pulverulent material.

1,469,312. ANTISKID DEVICE. MICHAEL DEAN, Webster, Pa. Filed Dec. 21, 1922. Serial No. 608,309. 3 Claims. (Cl. 152—14.)



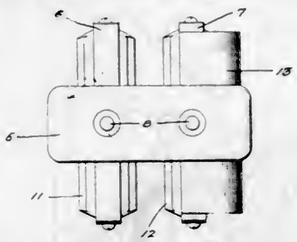
1. An anti-skid device for vehicle wheels comprising chains extending diagonally over the tread portion of the wheel tire, means for inter-connecting the intermediate portion of said chains directly adjacent the tread portion of the vehicle tire, eye-bolts connected to the free extremities of said diagonal chains, transversely disposed chains connected at their opposite ends to the intermediate portions of said diagonally disposed chains, U-shaped anchoring brackets having laterally disposed apertured extremities arranged over the wheel felly and receiving said eye-bolts, and circumferentially arranged chains disposed upon the opposite sides of the wheel tire connected to the eye-bolts in equi-distant spaced relation.

1,469,313. FURNACE. HOWARD I. GENTINE, Shelbyville, Ill., assignor to American Atomized Fuel Company, Shelbyville, Ill., a Corporation of South Dakota. Filed Nov. 1, 1920, Serial No. 421,037. Renewed Aug. 6, 1923. 1 Claim. (Cl. 110—28.)



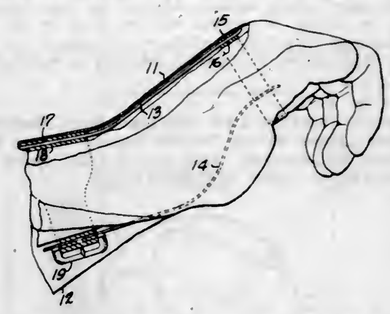
A furnace including a fire brick casing having communicating main and secondary combustion chambers built in the bottom thereof, a vertically extending baffle wall separating the two chambers, an arch disposed in the main combustion chamber and extending from the baffle wall and located at the approximate vertical center of the latter, means for ejecting fluid from beneath the last named arch, an arch extending from the front wall of the main combustion chamber into the main combustion chamber and means for injecting pulverized fuel and air from below the arch into the main combustion chamber.

1,469,314. ROLLER-RUBBING WASHER. ADOLPH GRUHN, Macon, Ga. Filed Mar. 17, 1922. Serial No. 544,554. 1 Claim. (Cl. 68—8.)



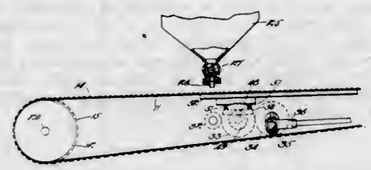
A device of the class described, comprising a handle member, transversely extending bars secured to the underside of the handle member and provided with depending end portions affording bracket arms, a roller carried by the arms of each bar, a guard supported on one of said bars and secured to the underside of the handle member.

1,469,315. WRIST SUPPORT. HUGH H. HANSARD, Montreal, Quebec, Canada. Filed Aug. 25, 1921. Serial No. 495,255. 11 Claims. (Cl. 125—87.)



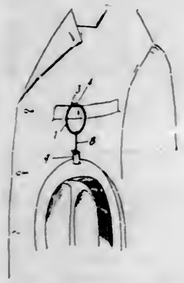
1. A device of the class described, comprising a pair of supporting members of limited resiliency formed to lie against the back and front respectively of a hand and forearm to hold the hand against forward and backward movement, and means for securing said members to the hand and forearm adapted to permit limited movement of the supports therein to enable edgewise movement of the hand relatively to the arm.

1,469,316. CANDY-MAKING MACHINE. WILLIS N. HARTSHORN, Racine, Wis., assignor to Racine Confectioners' Machinery Company, Racine, Wis., a Corporation of Wisconsin. Filed Nov. 15, 1920. Serial No. 424,013. 8 Claims. (Cl. 107—281.)



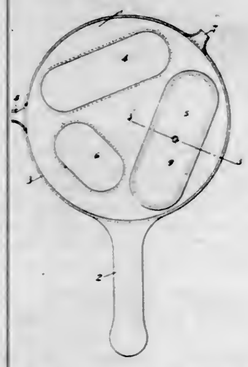
1. In a machine of the character described, the combination of means for depositing plastic material in separated masses, and an endless travelling metallic belt having a polished receiving surface on which the depositor places the plastic material.

1,469,317. HOLDER DEVICE. CHARLES O. HAYWARD, Ravenna, Mich. Filed Feb. 27, 1923. Serial No. 621,505. 3 Claims. (Cl. 24—3.)



1. In a device of the class described, the combination of an annular split body member of spring material terminating at one end in an outwardly offset inwardly facing hook and at the other end in an arm disposed across the body and coacting therewith to provide a spring clasp adapted for engagement with a garment or with a button or the like, the end of said arm being turned laterally, the hook end being inserted through the bight of the arm and the hook being engageable therewith under spring tension, whereby the body member may be opened to articles, such as keys, or for the engagement with a button-hole or the like, a link on said body member, and a clasp swivelled on said link.

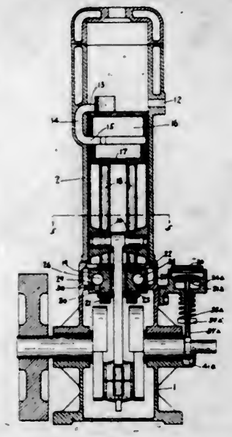
1,469,318. FRYING PAN. BENJAMIN HILL, Cleveland, Ohio; James Wilburt Deetrick executor of said Benjamin Hill, deceased. Filed Sept. 8, 1921. Serial No. 499,144. 3 Claims. (Cl. 53—7.)



1. A frying pan comprising a flat bottom portion having an upturned peripheral flange, the bottom portion being provided with a plurality of depressed elongated compartments, an outer end of each compartment lying adjacent said peripheral flange, the latter being provided with a pouring lip and said compartments being arranged angularly in a group with the outer ends of the compartments adjacent to and in operative relation to said pouring lip.

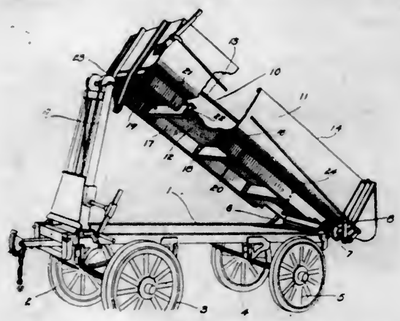
1,469,319. INTERNAL-COMBUSTION ENGINE. EDWIN T. KERSHAW, Denver, Colo. Filed Feb. 4, 1922. Serial No. 534,168. 17 Claims. (Cl. 123—65.)

14. In an internal combustion engine of the class described, a cylinder, a skirted piston, an abutment fitting within said skirted piston, said abutment forming between it and the piston a preliminary charge compressing chamber adapted to discharge into the combustion space at the end of the working stroke, a combined anchoring block and manifold held against movement longitudinally of the cylinder axis, but free to move transversely thereof, said anchoring block having a fuel duct, means securing the abutment rigidly to the



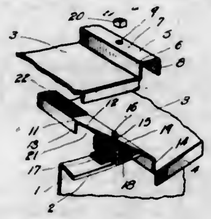
anchoring block comprising a tube affording a fuel passage from said duct to said chamber, a fuel conduit having its discharge end connected to said block to move therewith, and a valve for controlling the passage of fuel through said conduit, said tube and fuel conduit forming a continuation of said preliminary compression chamber.

1,469,320. VEHICLE BODY. ANDREW A. KRAMER, Kansas City, Mo. Filed May 3, 1920. Serial No. 378,366. 2 Claims. (Cl. 296—28.)



1. A wagon body comprising side members, each consisting of a single piece of sheet metal having a lower, longitudinal portion turned inwardly to form a part of the floor of the body, and a floor member, consisting of a single piece of sheet metal having its longitudinal edges secured to the edges of the floor portions of the side member and cooperating therewith to form the wagon body, the meeting edges of the floor member and of the floor portions of the side members being turned downwardly, forming flanges and said flanges being secured together to form longitudinal under-beams, flanges at opposite edges of the floor member being turned inwardly to form horizontal shelf flanges, and a brace supported on the shelf flanges and secured to the beam flanges.

1,469,321. TANK ROOF. ANDREW A. KRAMER, Kansas City, Mo. Filed Apr. 26, 1922. Serial No. 556,570. 5 Claims. (Cl. 108—32.)



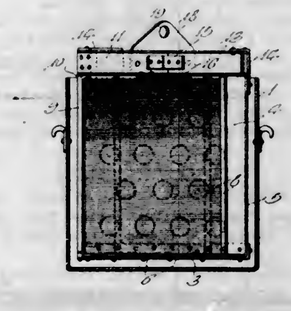
1. A tank roof comprising, in combination with a supporting shelf, expansible packing strips on the upper face of the shelf, packing blocks spaced apart and extending transversely across but supported by the packing strips, segmental roof sheets having box-shaped girders at their ends overlapping the packing blocks, the intermediate portions of the segments resting upon the packing strips, the box-shaped girders being nested one over the other, packing strips between the nested girders, and means for fastening the wall flange, the packing strips, the blocks and the girders together.

1,469,322. COMPOUND FOR TREATING VINCENT'S STOMATITIS. OSWELL W. LILLY, Welch, W. Va., assignor to Lilly Dental Products Company, Welch, W. Va., a Corporation of West Virginia. Filed Apr. 12, 1922. Serial No. 551,940. 4 Claims. (Cl. 167—9.)

1. A compound for the treatment of gingivitis consisting of arsenic trioxide 1%, red mercuric iodide 1%, potassium iodide 4%, and a solvent.

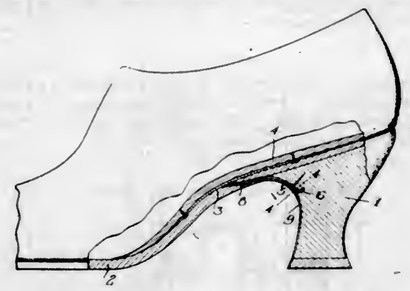
3. A compound for the treatment of gingivitis consisting of arsenic trioxide from ¼% to 1%, a mercuric salt from ¼% to 1%, an alkaline haloid from 1% to 8%, and water.

1,469,323. PLATE-HOLDING FRAME FOR BOSH. JOSEPH LONGO, Canonsburg, Pa., assignor of one-half to Pasquale Luongo, Canonsburg, Pa. Filed May 24, 1921. Serial No. 472,090. 5 Claims. (Cl. 266—7.)



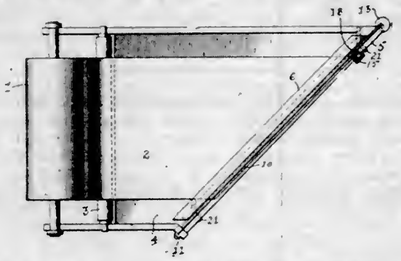
1. A plate holding frame for fitting into an open liquid holding tank, said frame being open at its top and open at its front and at one end, cross bars extending across the upper end of the frame transversely of each other and connected at their point of meeting, a corner post supporting the outer end of one of said cross bars, abutment stakes removably mounted in said frame for engaging plates placed in the frame to properly position the plates in the frame, and hoist engaging means at the intersection of the cross bars.

1,469,324. HEEL ATTACHMENT FOR SHOES. FIORENTINO MACCARONE, Rochester, N. Y. Filed Jan. 4, 1923. Serial No. 610,636. 1 Claim. (Cl. 36—76.)



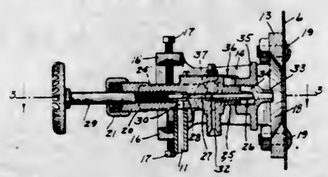
In a shoe, the combination with a heel and sole, of an arch stiffening plate located adjacent the inner surface of the sole, said sole having a narrow opening extending from its outer surface forwardly to its inner surface to a point immediately under said stiffening plate, and a heel bracing member having its rear end curved downwardly and attached to the breast of the heel and its forward end extending into said opening of the sole and contacting loosely with said stiffening plate.

1,469,325. STOCK-CUTTING APPARATUS. FRANK J. MACDONALD, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 31, 1918. Serial No. 269,033. 27 Claims. (Cl. 164—34.)



1. In an apparatus of the character described, the combination of a flexible cutting element normally spaced from the material, and a pressure device adapted to pass over said cutting element and force it into the material.

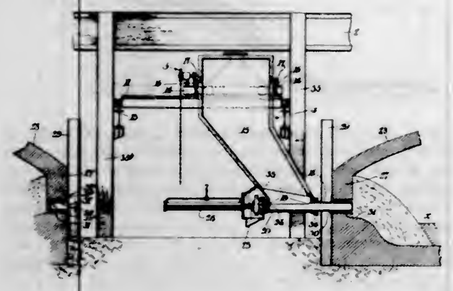
1,469,326. LIQUID AND GASEOUS FUEL BURNER. JULIUS A. MAHR, Minneapolis, Minn., assignor to Mahr Manufacturing Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Aug. 23, 1919. Serial No. 319,311. 7 Claims. (Cl. 158—76.)



1. The combination with a furnace having a duct leading to its heating chamber, of a burner bracket attached to the furnace and having a port aligned with said duct, a burner body having a nozzle directed toward the port in the burner bracket, said body being

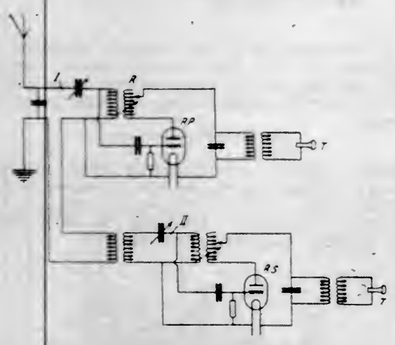
mounted on the bracket for pivotal and sliding movements whereby its nozzle may be angularly adjusted in respect to the projected axis of said port and axially moved toward and from said port without changing the angularity thereof.

1,469,327. APPARATUS FOR CHARGING REVERBERATORY FURNACES. ALEXANDER GRANT MCGREGOR, Warren, Ariz. Filed Oct. 30, 1920. Serial No. 420,645. 5 Claims. (Cl. 214—18.)



1. A charging machine for reverberatory furnaces comprising a charge hopper having a housing at its bottom, one or more rotatable tubes mounted in said housing and each having an opening which may be brought into register with an opening or openings at the bottom of said hopper, means for partially rotating said tube or tubes when filled with the charge, plungers working in said tubes for positively forcing the charge into a furnace and means for operating said plungers.

1,469,328. CIRCUIT ARRANGEMENT FOR RECEIVING RADIOENERGY. EMIL MAYER and AUGUST LEIB, Berlin, Germany, assignors to Gesellschaft für Drahtlose Telegraphie m. b. H., Hallesches, Berlin, Germany, a Corporation of Germany. Filed Aug. 3, 1922. Serial No. 579,385. 4 Claims. (Cl. 250—20.)



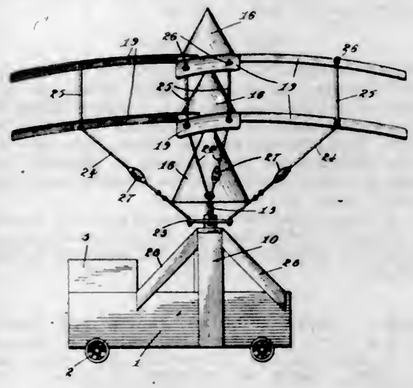
3. A circuit arrangement for receiving radio energy comprising a primary tuned circuit, a secondary tuned circuit coupled with the primary circuit, a primary receiver and a secondary receiver, said primary receiver comprising a thermionic vacuum tube and an indicator and being adjustably back-coupled with the primary circuit, and said secondary receiver also comprising a thermionic vacuum tube and an indicator and being adjustably back-coupled to the secondary circuit.

1,469,329. AUTOMATIC FEEDER FOR ELEVATORS. SAMUEL OLSON, Chicago, Ill., assignor to Samuel Olson & Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 10, 1919. Serial No. 343,716. 9 Claims. (Cl. 198—26.)



1. In combination with a guideway for packages, means for spacing said packages at regular intervals comprising a series of three stops distributed longitudinally of the guideway at intervals not less than the length of a package and each mounted for movement independently of the others, together with means for moving said stops in predetermined relation to each other.

1,469,330. HELICOPTER. WILLIAM RATLIFF, Montreal, Quebec, Canada. Filed June 18, 1923. Serial No. 646,179. 4 Claims. (Cl. 244—19.)



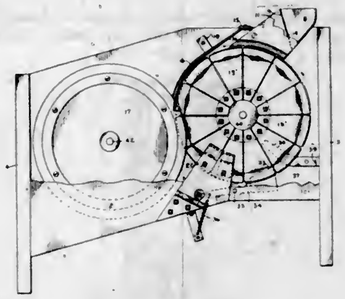
1. A helicopter comprising a body and a propeller shaft extending vertically therefrom, means for rotating said shaft, a plurality of cones carried in upright position by said shaft and having their axes in line therewith, vanes having their inner ends secured in the bottoms of said cones, bases associated with said cones, and wedges inserted between the tops of said bases and the inner ends of the vanes for tilting said vanes.

1,469,331. VEHICLE TOP. CHESTER GILLIG and LEO GILLIG, San Francisco, Calif. Filed Nov. 28, 1919. Serial No. 341,149. 6 Claims. (Cl. 296—47.)



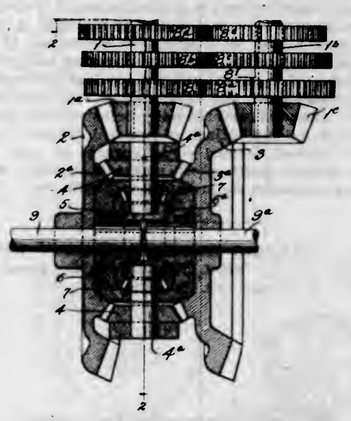
1. A convertible top such as described having a runway therein; a fixed sash in said top; a storage track in said runway parallel with said sash; a track pivoted substantially in alinement with said sash and adapted to swing into register with said storage track; and a sliding sash supported on said tracks; and means for normally holding said pivoted track in register with said storage track; means on said sliding sash and said runway for automatically guiding said sliding sash into flush alinement with said fixed sash in the operative position, and means on said top engaging said sash at the top and bottom edges for holding said sliding sash in the flush position.

1,469,332. NUT SKINNING. JOSEPH GOTZHEIN, Brooklyn, N. Y. Filed Apr. 21, 1923. Serial No. 633,588. 4 Claims. (Cl. 146—32.)



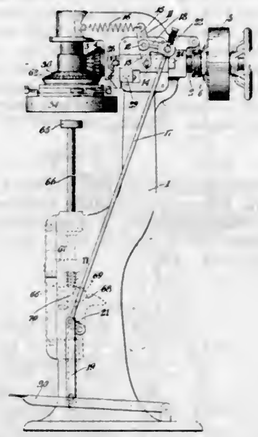
3. In a skinning device of the class described, a wheel having a resilient side, and means for feeding shelled nuts between said wheel and said resilient side, a cutter for slitting the skins of said nuts, and an ejecting finger for clearing the same from between said wheel and said side.

1,469,333. VARIABLE-SPEED-TRANSMISSION GEARING. DAVID E. ROSS, La Fayette, Ind. Filed Apr. 3, 1920. Serial No. 370,907. 11 Claims. (Cl. 74—99.)



1. A transmission gearing of the character specified comprising a pair of driving gears; a pair of alined shafts or axle members; a pair of opposed gears connected with the said driving gears; the gears in at least one of the pairs of gears having a definite fixed ratio other than 1:1; a driven member connected with said shafts; and a planetary gear connected with the driven member and engaging said opposed gears; with a primary driving shaft directly and positively geared to one of the driving gears; and a secondary driving shaft directly and positively geared to the other driving gear; and change gearing between said driving shafts whereby the relative speeds of rotation of said shafts may be varied.

1,469,334. SEAMING MACHINE. HUGH M. ROSS, Woodhaven, N. Y., assignor to Adriance Machine Works, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Oct. 27, 1921. Serial No. 510,711. 19 Claims. (Cl. 113—21.)



1. The combination of a plurality of rotatable members, operation performing means carried by one member and means for actuating said operation performing means carried by the other member, driving means for rotating one of said members, power transmitting means for rotating the other member relatively to said first-named member, said power transmitting means being arranged to be operatively connected to or disconnected from said driving means, latching means for retaining said power transmitting means connected to said driving means, and automatic means including a device carried by one of said members for rendering said latching means inoperative.

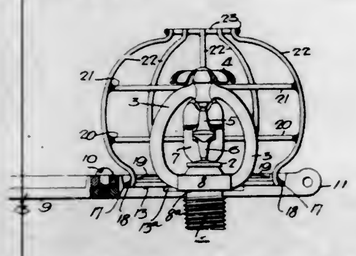
1,469,335. CORSET AND SIMILAR GARMENT. ISIDOR ROTH, Brooklyn, N. Y., assignor to Benjamin & Johnes, a Corporation of New Jersey. Filed Feb. 11, 1920. Serial No. 357,947. 7 Claims. (Cl. 2—73.)



1. A garment one end of which longitudinally of the body of a wearer is adapted to lie adjacent a projecting portion of said body of a wearer and is sufficiently flexible

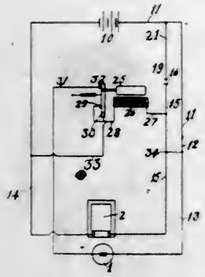
and free at its horizontal edge to bend or curl outwardly under pressure of said projecting portion of the body of a wearer, a stiffening member for the garment disposed longitudinally of said body of a wearer with its extremity a substantial distance from said edge of the garment, and a second stiffening member lying in the general plane of the first-mentioned stiffening member parallel thereto and extending beyond the end of said first-mentioned stiffening member toward said edge of the garment, said stiffening members being connected so that outward flexing of the extended portion of the second stiffening member tends to deflect outward the corresponding end of the first-mentioned stiffening member.

1,469,336. SPRINKLER GUARD. ARTHUR C. ROWLEY, Philadelphia, Pa., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 1, 1921. Serial No. 481,814. 2 Claims. (Cl. 169—1.)



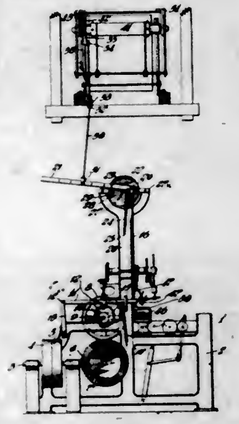
1. A sprinkler guard including an enclosing cage and a base consisting of two substantially flat elements hinged together, each having a side opening and formed with an edge indentation for the reception of the nipple of a sprinkle head, the face of said base adjacent the edge recesses thereof having a depression for the non-rotatable reception of the yoke base of a sprinkler head for retaining the latter in position with its levers adjacent one of the side openings of said base.

1,469,337. BACKING ALARM AND SIGNAL FOR AUTOMOBILES. EDGAR M. SANBORN, Oakland, Calif. Filed July 14, 1919. Serial No. 310,798. 2 Claims. (Cl. 177—339.)



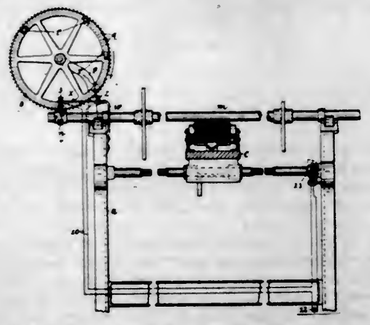
2. In a device of the character described, a battery, a two way switch, a tail lamp of an automobile, and an audible alarm, a lead from one side of the battery to the two way switch, a second lead from the two way switch to one side of the tail lamp, a second switch operated by a control lever, a third lead from the same side of the battery to one side of the second switch, a fourth lead from the second switch to the audible alarm and a connection from the latter to the other side of the battery, the two way switch serving to connect the first and second leads to light the lamp or to connect the second and fourth leads to break the circuit of the lamp when the second switch is open, circuit interrupting means including a movable and a stationary contact normally in circuit closing position and electro-magnetic means for operating said movable contact, connections between the other side of the control lever switch and the electro-magnetic interrupter means, and between the latter and the other side of the battery and additional connections from the lamp to the other side of the battery including the contacts of the interrupter.

1,469,338. HAIRCLOTH LOOM. HENRY M. SCHADEWALD, Philadelphia, Pa. Filed Dec. 23, 1921. Serial No. 524,363. 3 Claims. (Cl. 139—56.)



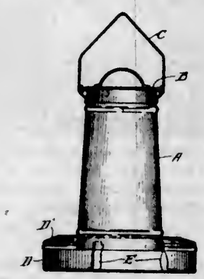
3. In a device of the character stated, a hair selector, a hair gripper, means operated from said gripper for actuating said dagger when the gripper misses a hair, a roarm, a connection from said dagger to said arm, a spring for said arm, a stop for limiting the movements of said arm, a cable having its lower end engaging said arm, a pawl capable of a pivotal and longitudinal movement, a spring for said pawl, the upper end of said cable being secured to said pawl, and the latter being retained in normal position by said springs, a jacquard cylinder having a portion thereof adapted to be engaged by said pawl when in normal position, whereby said cylinder is rotated, and means for reciprocating said cylinder.

1,469,339. WARPING MACHINE. BERNARD SCHRAM, Paterson, N. J. Filed July 15, 1921. Serial No. 484,840. 3 Claims. (Cl. 33—136.)



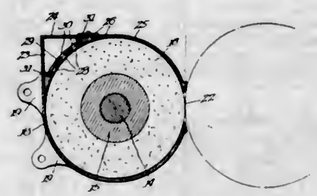
1. A warping machine including an open circuit having terminal contact means at the break therein and containing a signal and an energy source, revoluble means including a reel on which to wind the warp, and a succession of circuit closing devices for said circuit clamping at intervals a peripheral portion of said revoluble means and slidably adjustable thereon independently of each other in the direction in which it moves in the winding of the warp and also in the reverse direction, each of said devices being adapted during the movement of said movable means to wipe in contact with and past the terminal contact means.

1,469,340. POULTRY FEEDER. WILLIAM P. SHORTELL, Poughkeepsie, N. Y. Filed Mar. 29, 1922. Serial No. 547,608. 1 Claim. (Cl. 119—52.)



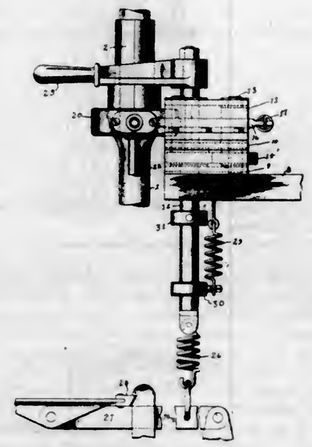
A poultry feeder comprising a food magazine of frustoconical form and open at both ends which is vertically disposed with its larger end at the bottom, a removable cover for the top of said magazine, a pan-like receptacle into which the lower end of the magazine extends, said receptacle comprising a cylindrical body of substantially larger diameter than that of the lower end of the magazine, and a sharply inturned flange at the upper end of said cylindrical body which extends inward toward the magazine to cover substantially more than half the horizontal area of the annular space between the bottom edge of the magazine and said cylindrical body portion, and is spaced away from the magazine to provide a slot through which poultry may feed, and slender supports connecting said hopper and receptacle and spacing the lower edge of the hopper away from the bottom of the receptacle.

1,469,341. BRONZING MACHINE. RICHARD J. SPENCER, Chattanooga, Tenn. Filed Apr. 15, 1922. Serial No. 553,189. 5 Claims. (Cl. 91—16.)



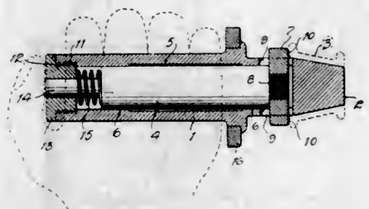
1. A bronzing attachment for cylinder presses comprising an elongated casing provided with means for attachment to the frame of a cylinder press, said casing being cylindrical throughout the major portion of its cross sectional configuration but having one upper corner formed rectangular, a cover for said rectangular corner, a curved partition within the casing at said rectangular corner to define a compartment for the storage of bronzing powder, said partition being formed with openings permitting outlet of powder from the reservoir compartment into the casing, said casing being formed with a slot, and a driven roller fitting and rotating within the casing and exposed at said slot.

1,469,342. METHOD AND APPARATUS FOR VULCANIZING INNER-TUBE SPLICES. HORACE D. STEVENS, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed June 26, 1922. Serial No. 571,028. 14 Claims. (Cl. 18—17.)



1. A method of vulcanizing inner tube splices comprising, supporting the splice betwee two rigid surfaces, exerting a yielding pessure on the splice, and heating the splice to vulcanize it.

1,469,343. PLUG GAUGE. ERNEST G. STRONG, Canton, Ohio, assignor to Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Nov. 1, 1922. Serial No. 598,297. 9 Claims. (Cl. 33—178.)

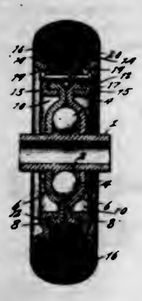


1. A gauge for gaging the conical bore of roller bearing cones and the like, comprising a handle having a conical end and a longitudinal bore extending through the opposite end, and a member movable endwise in said bore by the article being gaged and of such length that its end is substantially flush with the end of the handle when a normal article is gaged whereby the position of said member and the bore of the article may be determined by the sense of touch.

1,469,344. ROLLER. WALTER WARE, Chicago, Ill. Filed Nov. 20, 1922. Serial No. 601,961. 8 Claims. (Cl. 46—52.)

1. A roller having a resilient tire having a central inner flange, centrally apertured bushings forming the web of

the roller, a pair of rings adapted to clamp the bushings together and to engage the sides of the tire flange for hold-



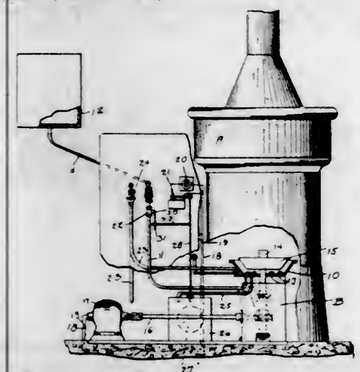
ing it in position, and means for securing the rings in clamping position.

1,469,345. BELT OR COLLAR. CHARLES WEILAND, New York, N. Y. Filed Sept. 16, 1920. Serial No. 410,617. 7 Claims. (Cl. 24—265.)



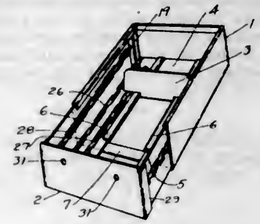
1. In a device of the character described, a facing strap having a transverse slot therethrough, a buckle attaching loop having its end portions extending through said slot to the back of the strap and secured thereto, and a backing secured to said strap and covering the end portions of the buckle attaching loop.

1,469,346. OVERFLOW-CONTROLLED SAFETY DEVICE FOR OIL BURNERS. JOHN WESTALL, Fall River, Mass. Filed June 6, 1921. Serial No. 475,369. 2 Claims. (Cl. 158—36.)



1. The combination with an oil burner, a feed pipe therefor, a rotatable motor driven member coacting with the burner, an electric motor operatively connected to said member to drive it and connected in circuit with the source of power, of a switch in said circuit, a cut-off valve in the feed pipe, an overflow tank, an overflow pipe leading from the burner to the tank, a float disposed in the tank, and a single member operatively connected to the float and acting to simultaneously open said switch and close the cut-off valve when the float is raised a predetermined distance by the accumulation of oil in the overflow tank said member permitting the independent manual operation of the cut-off valve and switch.

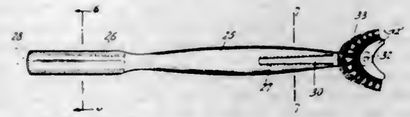
1,469,347. EXPANSIVE FILE TRAY. ALVIN E. WESTIN, Seattle, Wash. Filed Dec. 29, 1921. Serial No. 525,716. 6 Claims. (Cl. 129—16.)



2 An expansive file tray of the type described embodying two telescoping sections, ridges projecting from the inside of the inner telescoping section for holding objects away from the body of the section and a follower slidably mounted on the inside of the outer section.

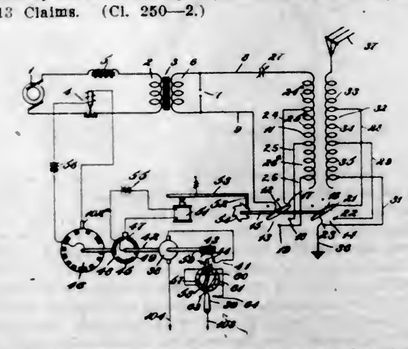
6. In an expansive file tray of the type described a follower constructed of one piece of material bent backward and then upward with projections on the ends of the flat piece at the bottom formed by providing notches in the sides adjacent to the flat piece.

1,469,348. TOOTHBRUSH. GODFREY WICKBERG, Seattle, Wash. Filed May 21, 1919. Serial No. 298,721. 1 Claim. (Cl. 15—176.)



In a device of the class described, a flattened handle having a longitudinally grooved recess at the end thereof which is dovetailed in cross section, a detachable brush supporting member having a shallow body portion which is dovetailed to be frictionally inserted in the recess of the handle and longitudinally movable in the direction of the handle when being detached therefrom, and also having an outer end part formed with shoulders flush with the handle end, and a brush carried by said support, said shoulders forming means to stop undue inward movement of the brush support.

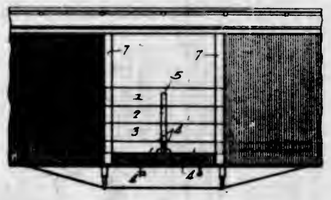
1,469,349. RADIO CONTROL SYSTEM. ARTHUR LESLIE WILSON, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 1, 1921. Serial No. 457,670. 13 Claims. (Cl. 250—2.)



1. In a system of wireless control, a wireless transmission system comprising means for effecting the radiation of a plurality of groups of waves having different

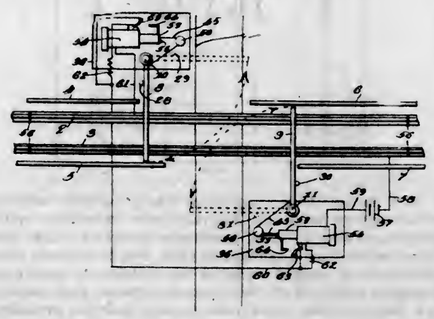
wave lengths, means for modulating each group of waves in a predetermined series of impulses individual to the particular group in question, a receiving system including means for varying the tuning thereof to admit of the reception of said plurality of groups of waves, and means selectively responsive to said individual series of modulations.

1,469,350. DOOR FOR GRAIN CARS. CHRISTOPHER E. WOOD, Roxborough, Philadelphia, Pa. Filed Sept. 30, 1921. Serial No. 504,281. 1 Claim. (Cl. 20—30.)



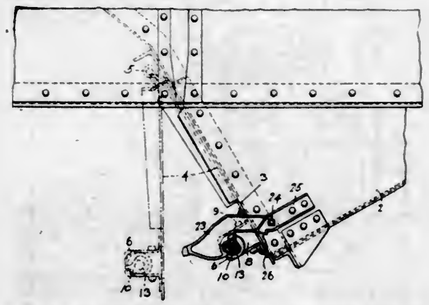
A knock down door for grain and like cars comprising upper and lower independent panels adapted to extend laterally across the door opening with their extremities behind the side posts of the door on the inside of the car, said lower panel being divided into a plurality of longitudinal sections, a bar adapted to be secured to the outer face of the upper panel with its lower end overlapping adjacent ends of the lower panel sections, and a block adapted to be secured to the sill of the door outwardly of and abutting the lower end of said bar to reinforce the latter in retaining the sections of the lower panel in position against pressure from within the car, the securing means for both bar and block being such as to permit ready detachment of the said bar and block from the elements to which they are secured to release the sections of the lower panel and thereby to provide a discharge opening for the contents of the car.

1,469,351. GATE MECHANISM. GEORGE M. ALLARD, Spokane, Wash. Filed Apr. 12, 1923. Serial No. 631,618. 5 Claims. (Cl. 246—125.)



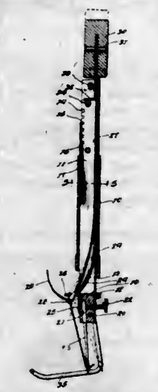
1. A gate mechanism for railway and highway intersections comprising in combination, a plurality of gates normally movable by gravity into a position across said railway, and train initiated means for causing said gates to move from a position across said railway into a position across said highway and be retained in said position until the train has passed the intersection, said means being thereupon released to permit said gates to swing by gravity back into a position across said railway.

1,469,352. DOOR-LOCKING MECHANISM. HARRY T. ANDERSON, Butler, Pa., assignor to Standard Steel Car Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 18, 1922. Serial No. 554,364. 6 Claims. (Cl. 105—308.)



1. In door locking mechanism, the combination of a downwardly swinging door, a swinging latch, a rotary shaft on said door engaged by said latch, means for releasing the latch by the rotation of said shaft, means for supporting said latch in the path of said shaft when the door is moved towards closing position, means on the shaft for engaging said latch to rotate said shaft and bring said latch into engagement therewith to hold the door in partially closed position, and means operated by the further rotation of said shaft to bring the door up into complete closed position.

1,469,353. HAND-EMBROIDERY IMPLEMENT. GIUSEPPE S. BENEVENTO, Donora, Pa. Filed Mar. 16, 1922. Serial No. 544,286. 2 Claims. (Cl. 112—80.)

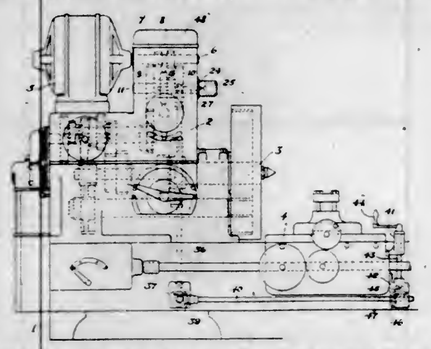


1. An embroidery implement comprising a needle bar, a casing therefor wherein said bar is mounted to reciprocate, a handle, a thread engaging member secured on the handle, interengaging elements on said bar and said member permitting a limited, sliding movement of the handle with relation to said bar and yieldable means on the bar adapted to cooperate with said member to clamp the thread during the retracting movement of the bar, a needle socket pivoted at the end of the bar away from said handle, said means engaging with said socket to normally hold it in upright position with the needle parallel with the axis of the implement.

1,469,354. LATHE-CONTROLLING MECHANISM. HAROLD L. BLOOD, Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 6, 1919. Serial No. 328,768. 10 Claims. (Cl. 82—2.)

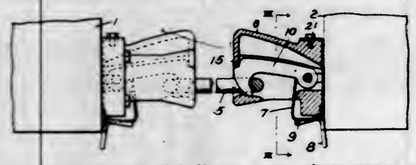
1. In a machine of the class described, the combination of a bed, a carriage movable thereon, a headstock, a

driving shaft rotatably mounted in the headstock, power control means remote from the shaft, a brake cooperating with the shaft, means mounted in the headstock laterally of the shaft and cooperating with the power control



means and the brake, and mechanism including a handle on the carriage and an operative connection therefrom to the second named means for controlling both the power and brake.

1,469,355. CAR COUPLING. HARRY M. BROWN, New Kensington, Pa. Filed Mar. 7, 1923. Serial No. 623,325. 3 Claims. (Cl. 213—179.)



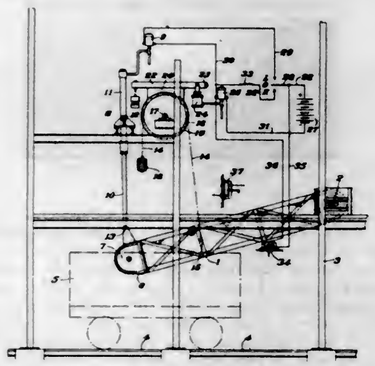
1. A coupler-head of bull-nose type whose upper wall is imperforate and closed against the ingress of any foreign substance, open rearwardly, and provided within and towards its anterior end with a vertically disposed bearing surface, combined with a hook adapted to be introduced from the rear into the coupler-head and when so introduced under traction adapted to bear upon said strain-sustaining surface.

1,469,356. CURTAIN CONSTRUCTION. JOHN S. BURDICK, Stratford, Conn. Filed Aug. 31, 1920. Serial No. 407,159. 3 Claims. (Cl. 296—95.)



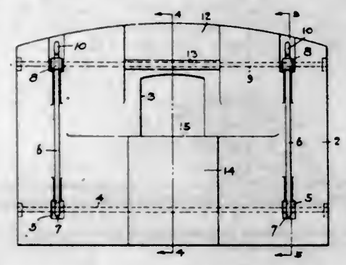
1. In a vehicle, the combination of a roof, supports therefor, a wind-shield pivoted on said supports to turn about an axis intermediate upper and lower, horizontal edges of said shield, a curtain roller mounted horizontally on said roof forward of said wind-shield, and a curtain wound on said roller and extending therefrom to a point adjacent the upper horizontal edge of said shield and thence in a downward direction along said shield.

1,469,357. RAISING AND LOWERING COAL CHUTES. FRANK M. CASTLEMAN, Rotherham, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed May 22, 1922. Serial No. 562,927. 12 Claims. (Cl. 198—123.)



1. In combination, a movable chute, a counterweight for biasing said chute to a given position, a fluid pressure device for moving said chute from said given position, and an electro-magnetically operated valve for controlling the supply of fluid pressure to said device.

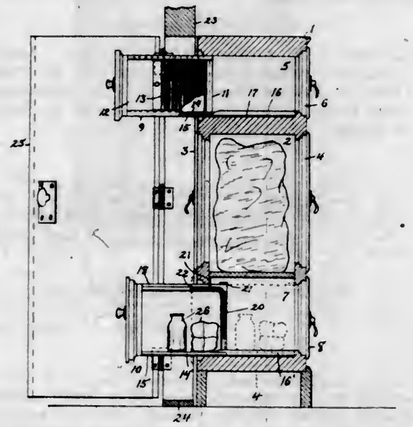
1,469,358. DOOR FOR GLASS-POT FURNACES. CHARLES H. CHRISTIE, Butler, Pa. Filed Apr. 15, 1922. Serial No. 552,827. 4 Claims. (Cl. 49—59.)



1. A furnace door comprising a body portion made up of refractory material, longitudinally extending metal rods embedded in said refractory material, said rods being exposed for a portion of their length near the ends thereof, and upright rods on the outside of said door engaging said rods at the exposed portions, and connecting means at the upper ends of said rods for attaching lifting chains.

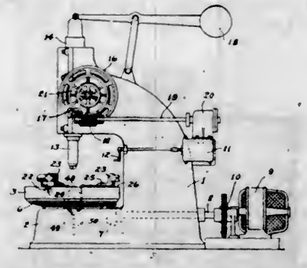
1,469,359. SERVICE CABINET. GEORGE R. CRAW, Fort Wayne, Ind. Filed Aug. 21, 1922. Serial No. 583,196. 5 Claims. (Cl. 232—1.)

1. A service cabinet for the reception of supplies comprising a cabinet having a chamber therein; a door closing the chamber; a drawer extending into the chamber from the back of the cabinet; a series of stationary slats in the bottom of the chamber, each slat having a longitudinal groove in each side thereof, said drawer having a series of slats forming the bottom thereof, each slat having lateral projections fitting in the grooves of the corresponding stationary slats, the tops of the stationary slats projecting slightly above the plane of the slats in the drawer; a curtain movably arranged in the drawer



adapted to selectively close the top or forward end of the drawer accordingly as it is adjustably positioned and means in connection with the curtain and the cabinet adapted to engage the curtain and cause the curtain to be moved into position to close the top of the drawer and open the forward end thereof when the drawer is shoved into the chamber.

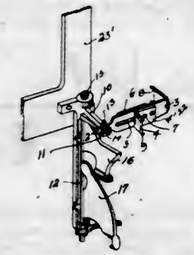
1,469,360. CLAMP AND GRIP CHUCK. JAMES K. CULLEN, New York, N. Y., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed July 23, 1920. Serial No. 398,473. 30 Claims. (Cl. 77—4.)



1. In a metal working machine, the combination of a work holder, a plurality of radially movable centering jaws on the holder, a plurality of clamping jaws on the holder movable in the same general direction for clamping the work that the centering jaws move in centering the work, the centering jaws being adapted to first engage the work to center the same and the clamping jaws being adapted to be operated thereafter to grip the work adjacent the centering jaws to drive the same, and power operated means for operating the centering and clamping jaws.

1,469,361. LINE-CASTING MACHINE. THOMAS F. DUFF, Spokane, Wash., assignor of one-third to Max Tonn, Spokane, Wash. Filed July 22, 1922. Serial No. 576,803. 7 Claims. (Cl. 199—47.)

1. In a linotype machine, the combination with the vertical starting lever and mold slide lever and the wheel on the latter, of an arm carried by the vertical starting lever, and a wheel on said arm adapted to engage said

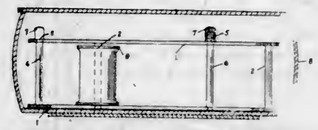


pawl while the latter is depressed to hold the vertical starting lever against operation.

1,469,362. PROCESS FOR THE TREATMENT OF WOOD MATERIAL AND THE PRODUCT THEREOF. VILLEHAD HENRIK FORSSMAN, Cologne, Germany. Continuation of application Serial No. 593,649, filed Oct. 10, 1922. This application filed Mar. 31, 1923. Serial No. 629,173. 11 Claims. (Cl. 20—0.5.)

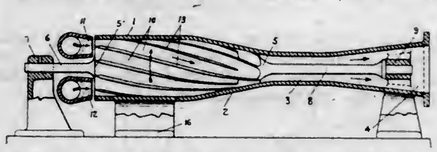
1. The process of treating a thin layer of wood material comprising the washing out of hygroscopic and ferment substances from a substantial number of its cells and the subjection of such cells to a solution adapted to neutralize the hygroscopic and ferment qualities of the remaining substances in said cells.

1,469,363. FLOSS RING. ILMA G. LANGLEY and WILLIAM S. LANGLEY, Youngstown, Ohio. Filed Mar. 10, 1922. Serial No. 542,639. 1 Claim. (Cl. 242—139.)



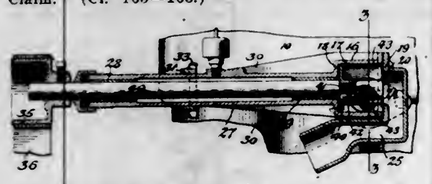
In a device of the class described, the combination of a circular basket or tray with floss or thread holder comprising a lower circular ring, an upper circular ring, a plurality of spindles some of which are extended and provided with threaded screws on their upper ends, said spindles formed of a convenient size for the reception of spools and spaced apart and further used to keep the upper and lower rings spaced apart, substantially as described for the purpose set forth.

1,469,364. JET-OPERATED AIR COMPRESSOR. GEORGE MCKERAHAN, Pittsburgh, Pa. Filed Oct. 8, 1921. Serial No. 506,407. 3 Claims. (Cl. 230—13.)



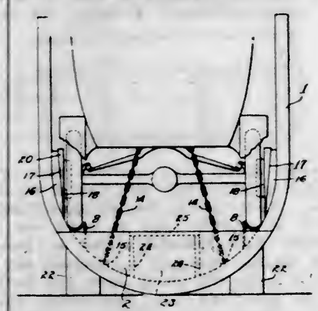
3. In a jet operated air compressor, tubular air chambers disposed helically around a central shaft on which they are revolved by impact of the jet upon the helical chamber walls; one or more jet nozzles which discharge into an end of the revolving air chambers, the transverse outline and area of said nozzles conforming respectively to the like outline and area of the said tubular air chambers, each to each; and the opposite end of the chamber wheel converging to a single compression tube which connects to a discharge pipe.

1,469,365. PUMP. CLARENCE W. NEUPERT, Buffalo, N. Y. Filed Dec. 8, 1921. Serial No. 520,950. 1 Claim. (Cl. 103—103.)



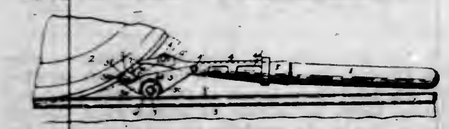
A pump comprising a cylindrical impeller chamber provided at one end with a fixed head, a tubular bracket arranged on said fixed head and having an inner stationary bearing next to said fixed head and an outer stationary bearing remote from said fixed head, and an outlet at the side of the chamber, said chamber, fixed head, tubular bracket, bearings and outlet being formed integrally, a rotary impeller arranged in said chamber, a shaft extending through said bracket and journaled in said stationary bearings and connected with said impeller, and a separate head detachably connected with the other end of said chamber and having an angular end inlet which extends from said separate head laterally and then lengthwise of the chamber and along the outer side thereof in the same direction in which said bracket extends from said stationary head, said shaft being wholly out of engagement with said detachable head and supported solely by said bearings on the bracket.

1,469,366. AUTOMOBILE CRADLE. FREDERICK H. PALMER, Cleveland, Ohio. Filed Apr. 22, 1922. Serial No. 556,104. 5 Claims. (Cl. 214—1.)



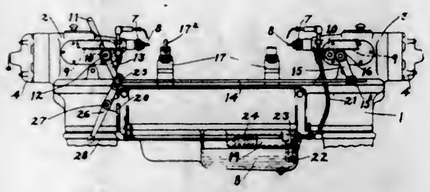
1. The combination with a rocking cradle in which a vehicle may be supported, of means to vary the center of gravity of the cradle when the vehicle is mounted therein, comprising a box in the bottom of the cradle, in which weights may be placed.

1,469,367. PINCH BAR. WILLIAM E. SMILEY, Cazenovia, and HOWARD D. GA NUNG, Syracuse, N. Y.; said Ga Nung assignor to said Smiley. Filed July 24, 1922. Serial No. 577,234. 7 Claims. (Cl. 254—38.)



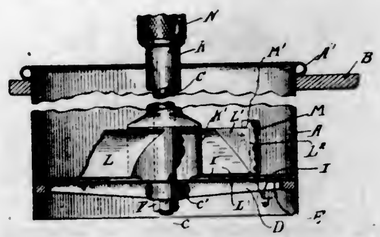
1. A pinch bar for moving cars, including a manually operable pinching lever and an angular auxiliary pinching member, the said parts being pivotally connected, said lever and said member each having a pinching nose adapted to engage the tread of a car wheel, spaced fulcrum means carried by said member adapted to bite the opposite lateral margins of the rail, means for indexing and holding the fulcrum means for preventing the skidding of the pinch bar away from the car wheel while the pinching force is being applied, and means for adjusting the fulcrum means independently of each other.

1,469,368. DRILL-LUBRICATING PUMP. JOHN J. THACHER, Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed May 5, 1921. Serial No. 467,057. 9 Claims. (Cl. 77—18.)



1. In a machine tool, the combination of a tool support, means for supporting a piece of work, means for causing relative rotation between the tool and work, means for causing a relative feeding movement between the tool and work, a lubricating pump, an oil conduit leading from the pump to the tool, and pump operating means controlled by the relative feeding movement between the tool and work whereby upon relative approaching movement between the tool and work the pump will be operated to discharge a quantity of oil therefrom through the conduit to the tool.

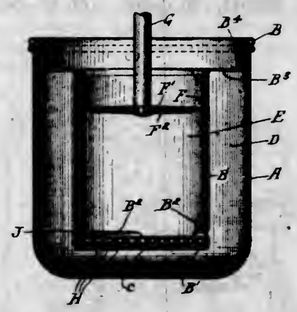
1,469,369. SHREDDING MACHINE. HENRY TRUST, Park Ridge, N. J., and FRANK M. ASHLEY, Brooklyn, N. Y.; said Ashley assignor to Josephine Trust, Park Ridge, N. J.; Josephine Trust administratrix of said Henry Trust, deceased. Filed Dec. 16, 1919. Serial No. 345,343. 3 Claims. (Cl. 146—9.)



1. A disk cutter comprising a thin sheet of metal adapted to be carried on a rotating spindle and having corrugations extending radially relative to its centre and cutting blades formed in the upper surface of said corrugations and integral with said disk.

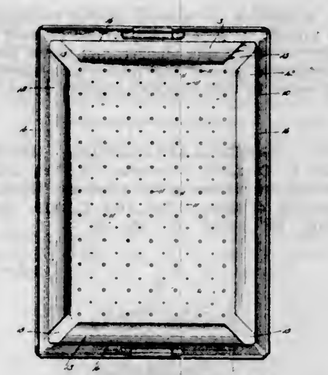
1,469,370. MIXING AND BEATING MACHINE. HENRY TRUST, Park Ridge, N. J., and FRANK M. ASHLEY, Brooklyn, N. Y.; said Ashley assignor to Josephine Trust, Park Ridge, N. J.; Josephine Trust administratrix of said Henry Trust, deceased. Filed Dec. 31, 1919. Serial No. 348,618. 10 Claims. (Cl. 259—71.)

1. A mixing machine comprising an air tight receptacle, a cylinder supported in said receptacle, a plate having perforations therein supported by said cylinder and a piston adapted to be reciprocated in said cylinder to alternately draw the ingredients into and



force out of said cylinder through the perforations in said plate by means of the difference in the fluid pressure in said cylinder and receptacle.

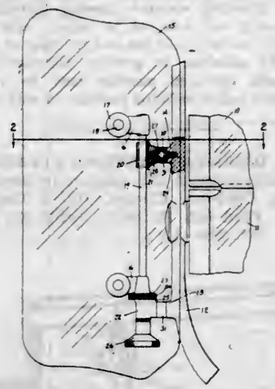
1,469,371. SINK PAN. IDA C. ABRAMS, New Haven, Conn. Filed Aug. 15, 1921. Serial No. 492,379. 1 Claim. (Cl. 141—11.)



A sink pan, having a bottom perforated except adjacent to the sides thereof, supports for the pan to elevate the bottom, permit drainage thereunder and not injure the surface in contact therewith, comprising a strip of material for each side of the pan that is substantially the same length as the side of the pan with which it is connected, but does not contact with an adjacent strip, said strips having two sides that are at substantially a right angle to each other, one of which is in contact with the underside of the said bottom, and a third side which curves downwardly from the bottom of the pan and outwardly where it joins one of said sides to form a comparatively narrow surface to take the weight of the pan.

1,469,372. WINDSHIELD WING. NEIL T. ALBRIGHT, Kokomo, Ind., assignor to Kokomo Automotive Mfg. Co., Kokomo, Ind., a Corporation. Filed Nov. 15, 1922. Serial No. 601,119. 5 Claims. (Cl. 296—84.)

3. In a wind shield wing, the combination of a wind shield having a supporting post, an internal screw threaded receiving socket on said post, a supporting member for said wing provided with an internally threaded receiving socket, a double ended bolt having oppositely directed screw threads on the ends thereof adapted to simultaneously screw into said receiving sockets for drawing said member towards said post and clamping it rigidly thereon,



and a nut for turning said securing bolt positioned so as to be rigidly clamped between the socket and supporting member when turned to tightened position.

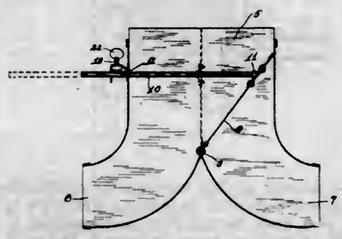
1,469,373. MANUFACTURE OF WROUGHT IRON. JAMES ASTON, Pittsburgh, Pa., assignor to A. M. Byers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 8, 1921, Serial No. 476,020. Renewed Nov. 24, 1922. 10 Claims. (Cl. 75—197.)

1. In the manufacture of wrought iron, the steps consisting of pouring the molten product of a steel-making operation into molten slag, granulating it therein, and maintaining the temperature of the molten slag below the melting point of the metal through said operation.

1,469,374. METHOD OF MAKING WROUGHT IRON. JAMES ASTON, Pittsburgh, Pa., assignor to A. M. Byers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 8, 1921. Serial No. 476,022. 3 Claims. (Cl. 75—47.)

1. In the manufacture of wrought iron, the step consisting of adding a protective metalloid other han carbon to a molten steel product and then mixing the same in granulated form with a slag of puddling characteristics.

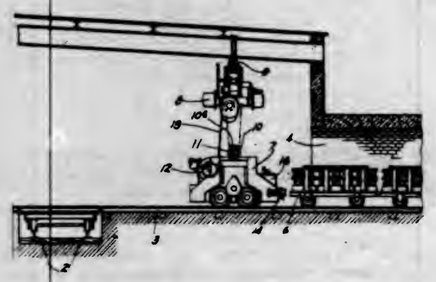
1,469,375. PRESSED-METAL FASTENING BRACKET FOR PIPE-DAMPER REGULATORS. JOSEPH ALSFASSER, Chicago, Ill. Filed Feb. 2, 1923. Serial No. 616,466. 1 Claim. (Cl. 126—295.)



In a device of the class described, a bracket formed of sheet metal and bent into substantially U shape and inverted as to position and secured to a pipe, a damper rod passing through registering openings in said pipe and

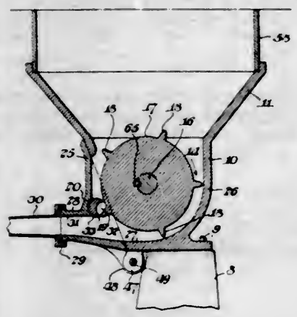
said bracket, a portion of said bracket between the side members thereof being provided with a shoulder transversely thereof and disposed beyond the openings therein, said bracket having another opening in the base of the U portion, a threaded member passing through said last named opening and adapted to engage said rod, and a nut disposed between said rod and the base of said bracket against said shoulder to prevent turning of said nut whereby said threaded member may be actuated for clamping said rod in selected position in said bracket.

1,469,376. DRIER-CAR-HANDLING APPARATUS. ROY S. BUELOW, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 15, 1921. Serial No. 508,000. 5 Claims. (Cl. 214—1.)



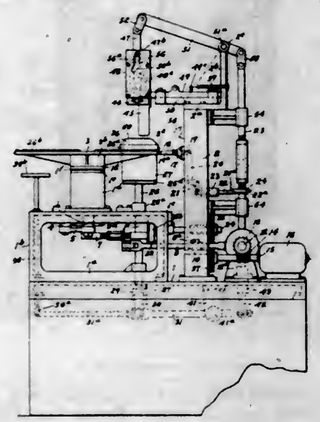
1. An apparatus of the class described, comprising a plurality of adjacent tunnels, material cars movable through said tunnels, a traveling crane having an overhead runway arranged transversely of the tunnel entrances, a locomotive provided with a resilient bumper at one end thereof adapted to engage the cars in said tunnels, and detachable suspension means for engaging said crane with said locomotive to lift the latter.

1,469,377. SAUSAGE-STUFFING MACHINE. DAVID BRIGHTBILL, Lebanon, Pa. Filed Feb. 8, 1922. Serial No. 534,978. 10 Claims. (Cl. 17—37.)



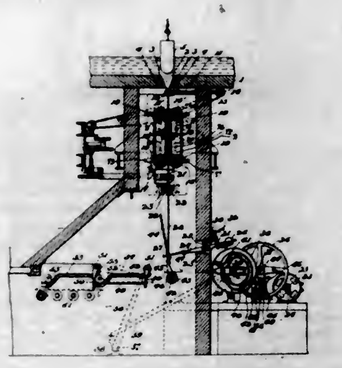
1. In a sausage stuffing machine, the combination with a meat pressure chamber including a wall with an outlet therein, of a drum having teeth and mounted to rotate within the chamber to apply pressure to the meat, and a lunette rotatively disposed in the path of the teeth and geared to mesh therewith, said lunette being seated in said wall and acting as an abutment against the passage of the meat and serving to direct the meat into the outlet.

1,469,378. POTTERY-FORMING MACHINE. MARTIN BURGER, Cleveland, Ohio, assignor of one-half to Gaetano E. Romano, Cleveland, Ohio. Filed Feb. 20, 1922. Serial No. 537,944. 29 Claims. (Cl. 25—24).



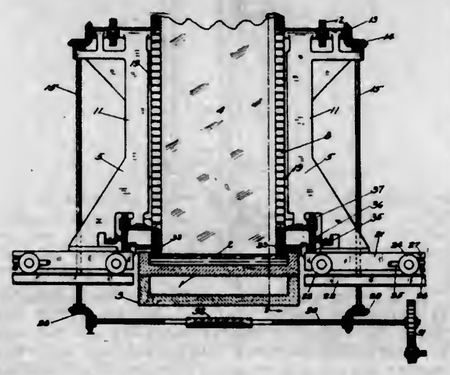
1. In a machine for shaping plastic material, a support, a plunger, a former tool carried by said plunger, means for actuating said plunger, and means for guiding and moving said plunger and former tool laterally while being actuated by said plunger actuating mechanism.

1,469,379. SHEET-GLASS-DRAWING MECHANISM. ROBERT P. CALLARD, Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed July 7, 1919. Serial No. 308,970. 14 Claims. (Cl. 49—3.)



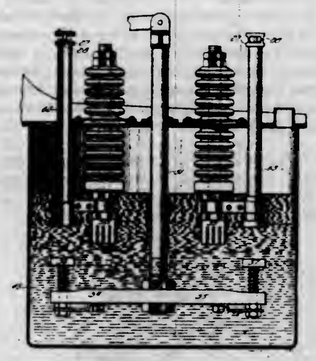
5. In a machine for drawing sheet glass, the combination of a receptacle for molten glass having an oblong slot or opening in the bottom thereof, water-cooled channels arranged on opposite sides of said opening to regulate the temperature of the glass flowing through said slot or opening, width-maintaining means, vertically moving sheet-drawing mechanism drawing the sheet downward, intermittently-operated scoring mechanism for scoring the drawn sheet, and an intermittently-operated carrier for breaking the sheet along the scored line, and a carriage to which the severed section is delivered by said carrier.

1,469,380. DRAWING CONTINUOUS SHEET GLASS. ROBERT P. CALLARD, Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Original application filed Aug. 11, 1919, Serial No. 316,638. Divided and this application filed Mar. 3, 1921. Serial No. 449,358. 9 Claims. (Cl. 49—17.)



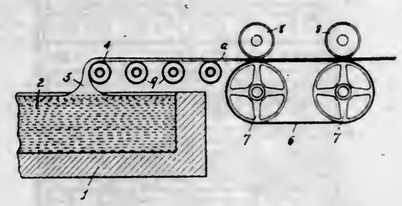
4. In combination, means to hold a supply of molten glass from which the glass sheet is formed, a pair of opposed chains at each edge of the sheet for gripping the sheet and continuing in gripping engagement therewith during a predetermined length of movement of the sheet, and separate means carrying and guiding the movements of the pairs of chains and adjustable to dispose the sheet gripping flights of the chains parallel to the longitudinal centerline of the sheet or at an angle thereto.

1,469,381. SWITCH. NICHOLAS J. CONRAD, Chicago, Ill., assignor to Schweitzer & Conrad, Chicago, Ill., a Corporation of Illinois. Filed Feb. 24, 1920. Serial No. 360,809. 8 Claims. (Cl. 200—150.)



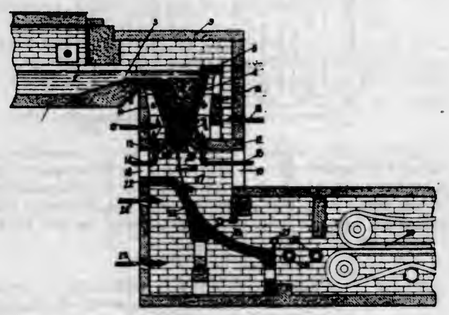
2. A device of the character described comprising a normally closed container having arc interrupting fluid therein, a vent tube extending into said container having an open end submerged in said fluid, providing the only means of communication between the interior of said container and tube, and a pair of co-operating switch contacts, one of said switch contacts being mounted on said tube at the submerged open end thereof.

1,469,382. METHOD OF MAKING SHEET GLASS. JOSEPH P. CROWLEY, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed June 10, 1919. Serial No. 303,069. 5 Claims. (Cl. 49—83.1.)



1. The method of forming sheet glass consisting in drawing a mass of glass from a molten source, passing the mass laterally while in a highly heated plastic condition over a bending member and extending it lengthwise to form a sheet before it cools sufficiently to lose its plasticity.

1,469,383. METHOD OF AND APPARATUS FOR PRODUCING CONTINUOUS SHEET GLASS. JOSEPH P. CROWLEY, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed June 20, 1921. Serial No. 478,789. 12 Claims. (Cl. 49—17.)

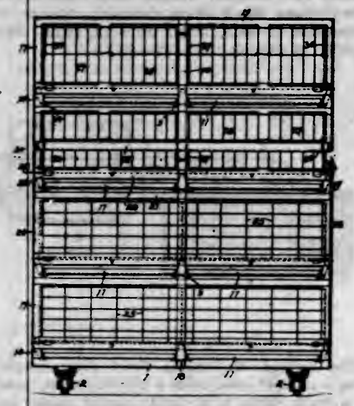


12. In a sheet glass producing apparatus, a source of molten glass, a graphite-clay hopper into which the glass flows from the source, there being a slot in the bottom of the hopper through which the glass flows in sheet form, a graphite-clay slab below the hopper, having a concave outer surface for deflecting the sheet into a horizontal plane, and drawing and flattening mechanism for carrying away the sheet.

1,469,384. BATTERY POULTRY COOP. JAMES BYRON DANLEY, St. Johns, Mich. Filed Nov. 1, 1922. Serial No. 598,257. 6 Claims. (Cl. 119—17.)

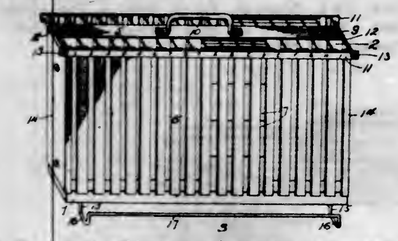
1. A battery poultry crate including a frame comprising side frame members having vertical end posts, and end frame members having vertical end slats and transverse horizontal spaced bars secured between the slats, said end frame members being secured between the side frame members with said slats secured to the sides of said posts, and said transverse bars of the end frame members being secured at their ends to said slats by means

extending through the slats into the ends of the bars, foraminous floors extending horizontally across the frame



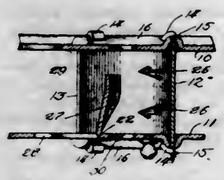
and within the same adjacent said bars of the end members, and trays beneath the several floors supported by said bars.

1,469,385. TYPE CABINET. MARVIN G. FLEMING, Kansas City, Kans. Filed May 12, 1922. Serial No. 560,490. 6 Claims. (Cl. 276—44.)



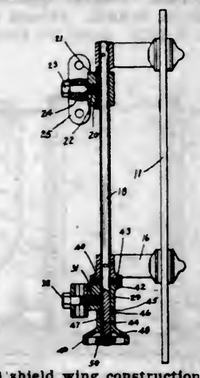
1. In a type cabinet, a case having a compartment open at its upper end and provided in its front wall with a vertical slot, and type holders adapted to be removably fitted one above the other in said compartment and accessible through said slot, substantially as set forth.

1,469,386. RIBBON SPOOL FOR TYPEWRITERS. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed Apr. 5, 1920. Serial No. 371,216. 9 Claims. (Cl. 242—70.)



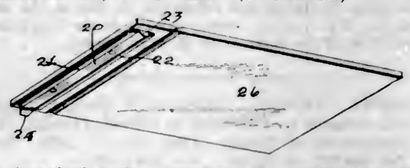
4. A ribbon spool for typewriters comprising a pair of end flanges of sheet material, a core member of sheet material bent into cylindrical formation and secured to said end flanges, said core member having an opening at one side thereof, one of said flanges having a portion partially severed therefrom adjacent the opening in said core member, said partially severed portion being bent inwardly and curved about the axis of said spool as a center to form a bearing member for said spool arranged to engage a ribbon spool shaft.

1,469,387. WINDSHIELD-WING CONSTRUCTION. BURTT J. HUBBARD, Kokomo, Ind., assignor to Automotive Accessories, Inc., Kokomo, Ind. Filed Jan. 27, 1922. Serial No. 532,134. 3 Claims. (Cl. 296—84.)



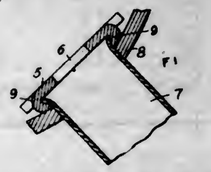
1. In a wind shield wing construction, the combination of a hinge rod member, a wing support mounted on said rod, a rod supporting member embracing said rod, and a bowed spring positioned between said rod supporting member and rod and extending longitudinally thereof for frictionally engaging the same for resisting relative movement between said rod and member.

1,469,388. LOCKING DEVICE FOR LOOSE-LEAF FILES OR BINDERS. CHARLES F. MCBEE, Athens, Ohio, assignor to The McBee Binder Company, Athens, Ohio, a Corporation of Ohio. Filed Aug. 4, 1920. Serial No. 401,171. 1 Claim. (Cl. 129—25.)



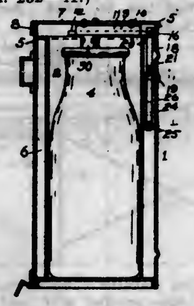
A loose-leaf binder comprising the combination with an upper and lower cover, the lower cover having vertical, flexible rods adjacent its ends in spaced relation, adapted to receive the sheets to be filed, a metal bar, I-shaped in cross-section, there being perforations in said bar adapted to receive the flexible rods, a metal strip secured to the inside of the upper cover provided with longitudinal inturned flanges and outwardly extending flanges at each end, said strip being adapted to slide over the sides of the I-bar and rods.

1,469,389. FLOW-CONTROLLING MEANS FOR STEAM BOILERS. THOMAS H. MCGRAW, Jr., Oakmont, Pa. Filed Jan. 16, 1920. Serial No. 351,890. 2 Claims. (Cl. 127—406.)



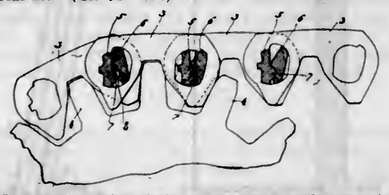
1. In combination in a water tube boiler, steam and water drums, water tubes connecting said drums, and a flow restricting device for certain of said tubes, each device consisting of a cap located in the drum and fitted over the end of a tube and having an aperture formed therein of less diameter than the passages through the tube and integrally formed fingers forced into engagement with the end of the tube.

1,469,390. LOCKING RECEPTACLE. FRED J. MILLER, Bellevue, Pa. Filed June 9, 1922. Serial No. 566,980. 4 Claims. (Cl. 232—41.)



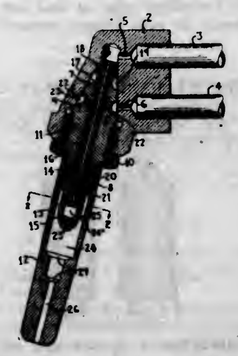
1. A receptacle comprising a body portion provided with a hinged lid, a key operated locking member carried by the body portion, a spring controlled and pivoted latching member carried by the lid and engaging with the locking member for maintaining the lid closed, a resilient member supported from the lid and opposing the latching member, and a shiftable plunger carried by the resilient member and actuated by an object within the body portion for swinging the latching member to engage the locking member.

1,469,391. POWER CHAIN. FRANK L. MORSE, Ithaca, N. Y., assignor to Morse Chain Company, a Corporation of New York. Filed May 16, 1922. Serial No. 561,298. 5 Claims. (Cl. 74—32.)



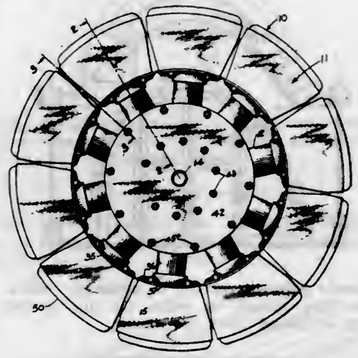
1. In a rocker-joint chain, a two-part pintle comprising a seat pin having a flat bearing face and a projecting rib formed with a curved bearing surface, and a rocker pin having a rounded surface for rolling upon the flat face of the seat pin and a depression for engaging said projecting rib when the chain is pulled straight.

1,469,392. OXYACETYLENE TORCH. FRANCIS JOHN NAPOLITAN, Springfield, Mass., assignor, by mesne assignments, to Air Reduction Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 20, 1920. Serial No. 375,194. 11 Claims. (Cl. 158—27.4.)



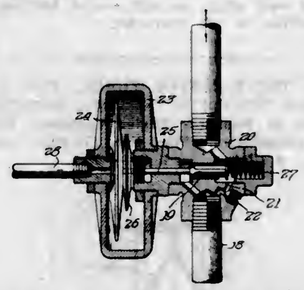
1. An interchangeable tip for oxyacetylene and like torches having a rear portion formed for sealing contact with the part of the torch containing the supply conduits, separate inlets in said rear portion for the two gases, separate longitudinal passages extending forward in the tip from the respective inlets, an enlarged chamber with which the forward ends of said passages communicate, means in said chamber for baffling the gases, and a relatively restricted flame exit.

1,469,393. RESILIENT WHEEL. MAURICE O'CONNOR, Alameda, Calif. Filed Mar. 26, 1923. Serial No. 627,642. 5 Claims. (Cl. 152—31.)



1. A resilient wheel comprising a hub, a plurality of rigid spokes extending from the hub, a rim comprising a plurality of flexibly connected sections mounted one at the end of each spoke, and connections between said sections permitting independent deflection thereof but rigidly maintaining them in lateral alignment and resisting lateral thrust on the rim.

1,469,394. PILOT-BURNER CONTROL. FRED W. POWERS, Chicago, Ill., assignor to The Powers Regulator Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 6, 1922. Serial No. 541,606. 4 Claims. (Cl. 158—115.)

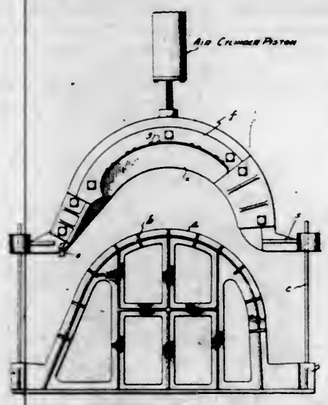


1. In a device of the class described the combination of a fuel burner, a pilot burner, a conduit for delivering gas to the pilot burner, a conduit for delivering fuel to the fuel burner, a conduit for delivering air under pressure to the fuel burner, a valve in said gas conduit for limiting the supply to the pilot burner, means providing a by-pass for maintaining a constant reduced supply of gas to the pilot, and means operable by said air under pressure for moving said valve.

1,469,395. JIG FOR MARKING AND DRILLING FENDERS. JOSEPH O. RICHARD, Detroit, Mich., assignor to Hayes Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 25, 1922. Serial No. 546,914. 7 Claims. (Cl. 77—62.)

1. A jig for the purpose specified, comprising a male member adapted to support a stamping, and a female

member, means for guiding the same in vertical reciprocation with respect to the male member, the female member arranged to descend on said male member, and



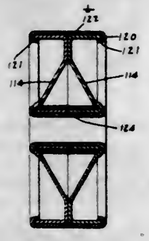
said female member having a periphery which acts as a marking pattern by which the line to trim the stamping is placed upon the fender.

1,469,396. SIGN. JOHN M. SCHILLING, Chicago, Ill., assignor to Fred Parker, Chicago, Ill. Filed Dec. 13, 1919. Serial No. 344,683. 7 Claims. (Cl. 40—140.)



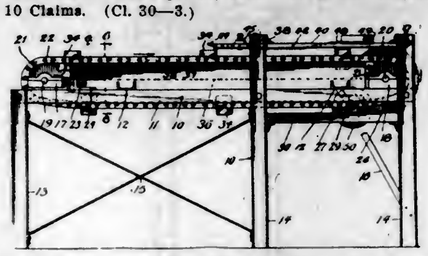
1. A character for a sign, comprising a plate having a light opening therethrough in the form of a closed character having an outer outline and a center, and a narrow supporting portion extending from the body portion of said plate to said center forming a part of the outline of the character.

1,469,397. TRUCK CASTER WHEEL. EMIL A. SMITHFIELD and WILLIAM H. NOELTING, Evansville, Ind., assignors to Faultless Caster Company, Evansville, Ind., a Corporation. Filed Feb. 17, 1922. Serial No. 537,330. 2 Claims. (Cl. 301—63.)



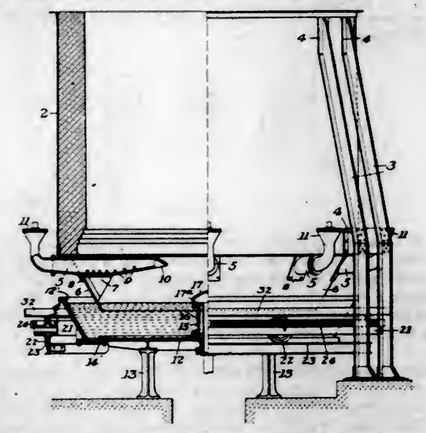
1. In a wheel, the combination of a pair of plates having rim forming flanges and central openings adapted to register, groove forming flanges concentric with the openings, a spacing sleeve having its edges seatable in said grooves, a second sleeve concentric within the first sleeve with its edges securing the plates and spacing sleeve together at the hub portion, and an annular member associated with the rim forming flanges to form a smooth wheel rim.

1,469,398. AUTOMATIC CAN-OPENING MACHINE. WADE L. STREET, Chicago, Ill., assignor to The T. A. Snider Preserve Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 10, 1922. Serial No. 550,989. 10 Claims. (Cl. 30—3.)



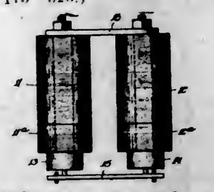
1. A can opening machine comprising, a table, a can deheading knife blade parallel with said table and stationarily supported thereabove, said blade being unobstructed from front to back, and can propelling mechanism for moving filled cans along said table and past said knife blade, the latter being placed in position to be encountered by the upper ends of the cans.

1,469,399. GAS PRODUCER. FRANCIS H. TREAT, Cleveland, Ohio, assignor to Duff Patents Company, Incorporated, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 25, 1920. Serial No. 384,053. 21 Claims. (Cl. 48—69.)



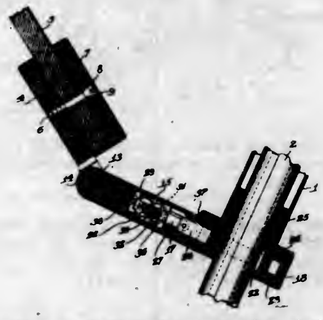
17. In a gas producer, a stationary ash pan, a trough surrounding said ash pan, and means for elevating ashes over the peripheral edge of said ash pan and delivering the same to said trough, substantially as described.

1,469,400. DIRECT-CURRENT-RELAY COMPENSATING COIL. ARTHUR R. WHITEHORN, Downers Grove, Ill. Filed Mar. 5, 1921. Serial No. 449,795. 5 Claims. (Cl. 175—320.)



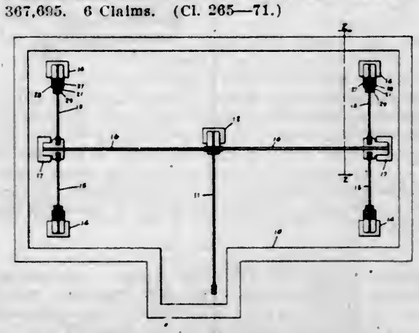
2. A relay, including a magnet and an armature, a plurality of circuits controllable by position of said armature, one circuit adapted to be closed when said magnet is energized and another circuit adapted to be closed when said magnet is de-energized, a second magnet established to influence said armature and included in the circuit closed by said armature when said first magnet is de-energized, said latter circuit including a separate source of energy from the first magnet.

1,469,401. AUTOMOBILE STEERING-GEAR LOCK. LEON E. WILLETT, Detroit, Mich. Filed Oct. 8, 1921. Serial No. 506,249. 5 Claims. (Cl. 70—90.)



4. A locking mechanism for a steering shaft, comprising an anchor plate composed of separable parts normally connected together and adapted to be fixed adjacent said shaft, a lock casing hingedly mounted between the parts of said anchor plate and embracing said shaft, said anchor plate parts precluding removal of said lock casing until the anchor plate parts are separated, and locking means in said casing adapted to engage and lock said shaft against rotation.

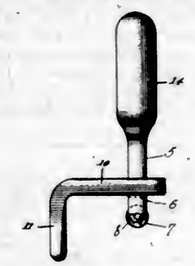
1,469,402. PLATFORM SCALE. MARION H. WINSLOW, Terre Haute, Ind. Filed Mar. 22, 1920. Serial No. 367,695. 6 Claims. (Cl. 265—71.)



1. A platform scale including a platform, a pair of transverse levers under each end of the platform, a cross lever for actuating a weight-indicating mechanism, a longitudinal lever for transmitting the effect of the load from the transverse levers at each end to said indicating actuating lever, and connections between said levers, all of said levers being of the second class of leverage.

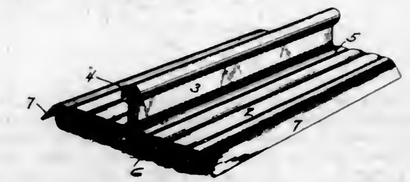
1,469,403. JAR-COVER CRIMPER. EVERETT BARD, Water Valley, Ky. Filed Aug. 31, 1922. Serial No. 585,458. 1 Claim. (Cl. 81—15.)

In a tool of the class described, a shank having a cut out portion formed at one end thereof and having a handle formed at the opposite end thereof, a roller positioned within the cut out portion for contacting with the cover of a fruit jar, a supporting arm extending laterally from the shank and at right angles with respect thereto, said supporting arm having a right angled extremity adapted



to engage the cover under operation, and said supporting arm adapted to be gripped by one hand of the operator to hold the tool to the cover.

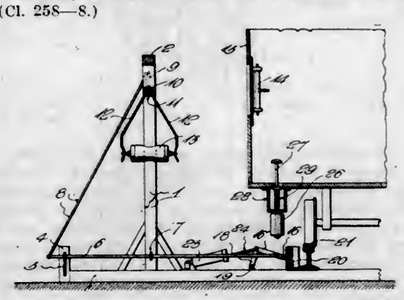
1,469,404. ABRASIVE DEVICE. WILLIAM C. BOHRMANN, Belvedere, Calif. Filed May 25, 1922. Serial No. 563,702. 14 Claims. (Cl. 15—210.)



1. An abrasive device comprising a backing of impervious material, a layer of compacted steel wool secured to said backing and flexible flaps extending from the sides of said backing.

10. An abrasive device, comprising a flexible backing and a layer of steel wool permanently secured thereto, said wool being combined with a flexible binder slowly soluble in water.

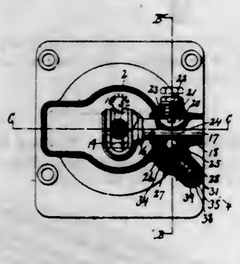
1,469,405. MAIL-BAG-DELIVERING APPARATUS. OTHO NILE BRAUN, Montgomery, LLOYD FRANK NICHOLS, Handley, and ELMER LEE UNDERWOOD, London, W. Va. Filed July 3, 1922. Serial No. 572,597. 3 Claims. (Cl. 258—8.)



1. A mail bag delivering apparatus comprising a vertically disposed support, a rocker shaft rotatably carried by said support and disposed horizontally, bag-engaging arms extending from said shaft for swinging movement into and out of a bag delivering position when the shaft is rotated, a crank arm extending from said shaft, a pull-rod connected with said crank arm and extending downwardly and away from said rocker shaft, a push-bar for extending longitudinally of a track rail for engagement by a train-carried abutment, said push-bar hav-

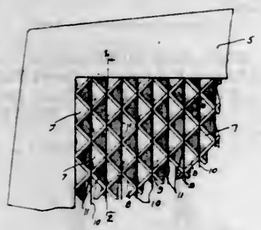
ing its end portions bent to extend in diverging relation to the rail and being then bent downwardly and adapted for pivotal connection with means for mounting the push-bar for swinging movement towards and away from the rail, and a push-rod connected with said push-bar and extending outwardly from the same at substantially right angles to the push-bar and connected with the lower end of the pull-rod to impart movement to the pull-rod and rotate the rocker shaft to swing the bag-carrying arms to a bag delivering position when the push bar is moved away from the track rail.

1,469,406. LEVER LOCK. ARTIS CHESTER BRYAN, Syracuse, N. Y. Filed Oct. 4, 1921. Serial No. 505,431. 8 Claims. (Cl. 70—128.)



6. In a lever lock, the combination of a gear case, a cover for the gear case, a gear shifting lever fulcrumed on the cover, key-operated means for locking the lever in its neutral position, and means including a locking member actuated by a part of said key-operated means for locking the cover to the gear case when the shifting lever is locked.

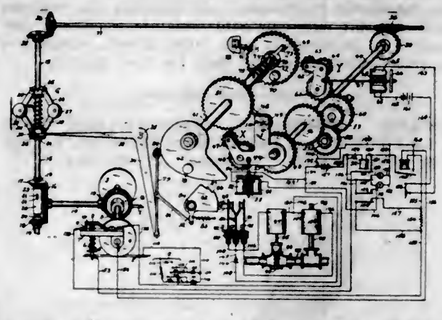
1,469,407. RADIATOR CORE. ROBERT M. CHRISTENSEN, Racine, Wis. Filed June 3, 1920. Serial No. 386,308. 2 Claims. (Cl. 257—130.)



1. A radiator construction comprising a plurality of core members providing substantially vertically trending water passageways, and bent to form substantially horizontal, upwardly and rearwardly inclined air passageways extending between the water passageways, and an insert dividing each air passageway and having means for breaking the air passing therethrough and deflecting the same to engage the entire wall area of the air passageways.

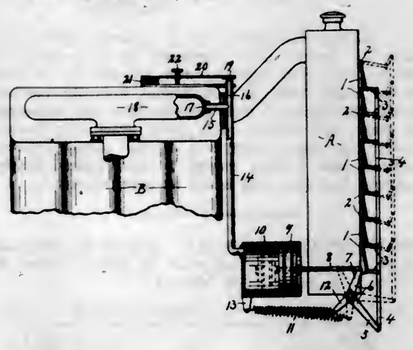
1,469,408. AUTOMATIC TRAIN-CONTROL SYSTEM. LYMAN E. DODGE and NEIL D. PRESTON, Rochester, N. Y., assignors to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed Sept. 7, 1916. Serial No. 118,817. 56 Claims. (Cl. 246—182.)

53. A system of train control for railway vehicles capable of enforcing predetermined variable speed limits, each when once established continuing during the progress of the vehicle until changed and characterized by the adjustment of the maximum speed limit at selected control



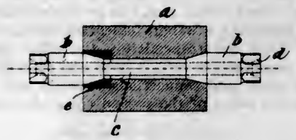
points along the track in conformity with intervals of distance traveled by the vehicle at such control points.

1,469,409. AIR-COOLING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. LEWIS B. DOMAN, East Syracuse, N. Y. Filed Nov. 28, 1916. Serial No. 133,943. 3 Claims. (Cl. 123—174.)



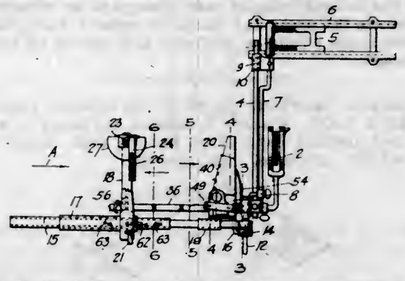
1. The combination of an internal combustion engine, a cooling system therefor, means for varying the capacity of the cooling system, a motor for actuating the capacity-varying means, having a chamber connected with the intake of the engine, a port connecting this chamber with the atmosphere, and thermostatic means adapted to close the port, thereby controlling the degree of vacuum in said chamber.

1,469,410. ROLL OF ROLLING MILLS. LEO DOSTAL, Kladno, Czechoslovakia. Filed Feb. 14, 1921. Serial No. 444,931. 2 Claims. (Cl. 80—58.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



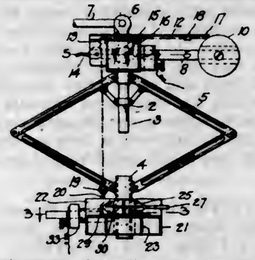
1. In a roll for a rolling mill, the combination of an axially perforated roll body, axially perforated roll necks separate from said body, having extensions fitted into the ends of the axial perforation of said body and a tie rod extending through the axial perforations of said necks and the axial perforation of said body, whereby said necks are held firmly in said body.

1,469,411. REFLECTOSCOPE. CHARLES E. H. ARMBRUSTER, Denver, Colo. Filed May 23, 1918. Serial No. 236,181. 23 Claims. (Cl. 88—20.)



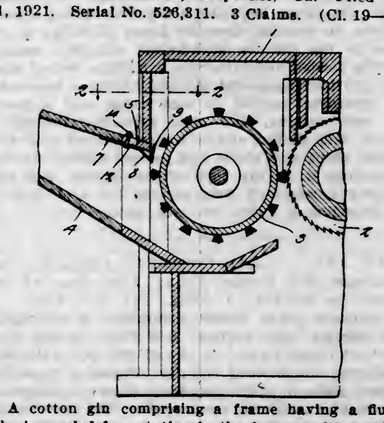
1. In an instrument of the character described, the combination of a mirror, a box having an opening facing the same, a lamp in the box, a test type in the box, and a removable cover for the opening of the box, having a slot for the emission of light-rays.

1,469,412. DYNAMIC PHOROPTOMETER. CHARLES E. H. ARMBRUSTER, Denver, Colo. Filed May 23, 1918. Serial No. 236,180. 23 Claims. (Cl. 88—20.)



1. In an instrument of the character described, the combination of a rectilinearly extensible and contractible bracket supported at one of its ends, a reel adjacent the fixed end of the bracket, a test-object adjacent the opposite end of the same, a measuring tape wound on the reel for measuring the distances between the fixed end of the bracket and the test-object, said tape extending partially transverse to the line of movement of the bracket, and a pointer cooperating with said transverse portion of the tape.

1,469,413. ADJUSTABLE LINT AND BRUSH BOARD. ROBERT W. HAULBROOK, Maysville, Ga. Filed Dec. 31, 1921. Serial No. 526,311. 3 Claims. (Cl. 19—58.)



3. A cotton gin comprising a frame having a flue, a brush journaled for rotation in the frame and located adjacent to the flue, and a lint plate secured to the flue for adjustment toward and away from the brush, the lint plate terminating in an upstanding flange disposed between the upper portion of the flue and the brush.

1,469,414. PRINTING INK. GEORGE W. HERBEIN, San Francisco, Calif. Filed Aug. 7, 1922. Serial No. 580,305. 12 Claims. (Cl. 134—36.)

12. A printing ink comprising the following ingredients in the proportions stated:

	Per cent.	
Fuel oil	86 to 95½	
Rosin	1 to 10	Per cent.
Copper nitrate	½	65
Calcium chloride	1	
Sodium hydrate	1	
Sodium silicate	1	
Linoleate of lead		4
Pigment		25
Drier		6
Water sufficient quantity.		

1,469,415. PHOTOGRAPHIC DEVELOPMENT GAUGE. WALTER F. HERZBERG, Chicago, Ill. Filed Feb. 10, 1921. Serial No. 443,757. 9 Claims. (Cl. 95—8.)



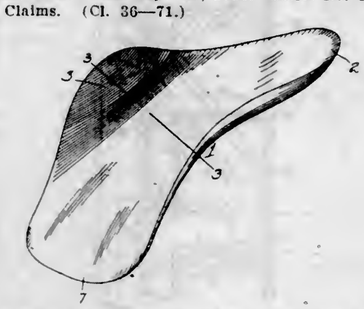
1. A gauge for indicating the degree of development attained by a photographically sensitized medium, comprising a series of latent indexes which become visible consecutively upon continued development.

1,469,416. WASTELESS SKEIN. HANS F. HOFER, Nagoya, Japan. Filed May 26, 1922. Serial No. 563,986. 7 Claims. (Cl. 40—1.)



2. A skein of thread provided at its terminal end with a string readily distinguishable from the thread of the skein.

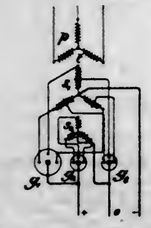
1,469,417. ARCH SUPPORT. BRUNO JESCHKE, Oakland, Calif. Filed Sept. 20, 1920. Serial No. 411,632. 2 Claims. (Cl. 36—71.)



2. An arch supporter comprised of layers of leather curved on the opposite faces to fit a foot and shoe, and having a thickened center portion terminating in a continuous tapered and flexible edge; and a plurality of rigid

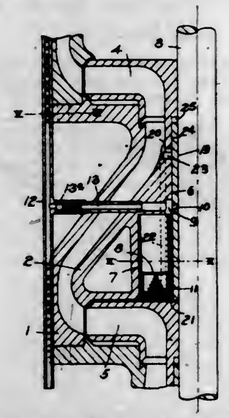
fastening means passed through said thickened center portion to hold the same substantially rigid, the entire arch supporter being substantially resilient and capable of sustaining its shape.

1,469,418. APPARATUS FOR OPERATING DIRECT-CURRENT THREE-MAIN SUPPLY CIRCUITS BY MEANS OF METAL VAPOR RECTIFIERS. JOHANN KÜBLER, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Filed Aug. 31, 1921. Serial No. 497,432. 2 Claims. (Cl. 175—363.)



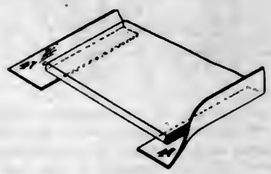
1. Apparatus for operating direct current three wire circuits by means of metal vapor rectifiers including a transformer having a primary winding, a secondary winding and an auxiliary secondary winding having half the number of turns of the main secondary winding, a main rectifier, two auxiliary rectifiers and the following electrical connections; a negative main for the three wire circuit connected to the neutral point of the main secondary winding, a middle main for the three wire circuit connected to the neutral point of the auxiliary secondary winding and to the cathode of the second auxiliary rectifier, a positive main for the three wire circuit connected to the cathodes of the main rectifier and the first auxiliary rectifier, connections from the anodes of the main rectifier to the ends of the main secondary transformer winding, connections from the anodes of the second auxiliary rectifier to the ends of the auxiliary secondary transformer winding and connections from the anodes of the first auxiliary rectifier to intermediate tapping points on the main secondary winding.

1,469,419. PUMP MECHANISM. MAHLON E. LAYNE and SAMUEL N. HALL, Los Angeles, Calif.; said Hall assignor to said Layne. Filed Sept. 8, 1920, Serial No. 408,949. Renewed Jan. 31, 1923. 14 Claims. (Cl. 103—102.)



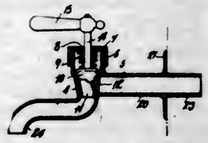
1. The combination with a pump casing, an impeller or runner, and a drive shaft, of a bearing in the casing, a cylinder and plunger in the casing, a spring for causing relative movement between the plunger and its cylinder to expel the contents of the cylinder, a communication for supplying the oil expelled to the bearing, an oil line for conducting oil under pressure to the cylinder to compress the spring and charge the cylinder, and a check valve in the oil line to prevent a back flow of oil therethrough.

1,469,420. METHOD OF MANUFACTURING EXCELSIOR PADS. WILLIAM E. LEIBING and LEROY C. TAGGART, Oakland, Calif. Filed Mar. 29, 1922. Serial No. 547,755. 4 Claims. (Cl. 154—29.)



4. A method of making sealed packing pads, consisting in continuously feeding a strip of wrapped packing material into a machine, intermittently stopping and severing the end portion from the strip to successively form a series of pad sections, providing a take-up for said strip during and adjacent the point of stopping thereof for holding and guiding the movement of the strip, feeding said sections through the machine in spaced relation, feeding a pair of paper strips into said machine, gumming and severing strip sections from said paper strips, successively feeding said strip sections into engagement with said pad sections, folding said strip sections over the open ends of said pad sections for sealing said ends to form a closed sealed pad and delivering said sealed pads from the machine.

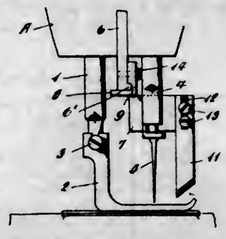
1,469,421. VALVE-CASING CAP. FREDERICK J. LESZ, Minneapolis, Minn. Filed Jan. 21, 1920. Serial No. 353,003. 2 Claims. (Cl. 251—112.)



1. In a valve, a casing having a conical shaped bore communicating with an inlet and an outlet, a conical cup shaped valve mounted in the bore of the casing, a stem extending from the valve through the casing, a cap for the casing including a flat disk having a central aperture, an annular threaded flange extending at right angles to the cap for engagement with the casing, a centrally located and integrally extending conical shaped pintle provided upon said cap and having a longitudinal bore extending parallel to said flange and registering with said opening, said stem extending through the bore of said pintle, and a conical shaped coil spring disposed about said pintle and bearing against the valve for holding it in the bore of the casing, said pintle providing a relatively long bearing for said stem and also providing a guide for said spring.

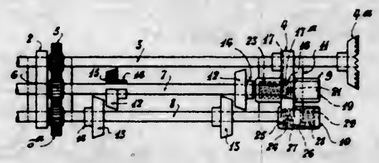
1,469,422. CLOTH-TRIMMING DEVICE. OSCAR LUSCHER, New London, Conn. Filed June 16, 1922. Serial No. 568,844. 1 Claim. (Cl. 112—122.)

A trimmer blade holder comprising a substantially right angular body portion, said body portion having a vertical recess formed in one of the side walls thereof adjacent its forward end for adjustably receiving a trimmer blade, a right angularly disposed hanger arm being right angular in cross section, the lower wall of said hanger arm being formed integral with the upper face adjacent the rear end of said body portion, one face of the vertical wall of said hanger arm having a



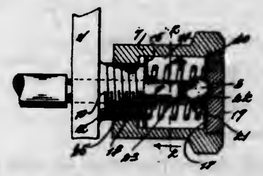
longitudinally extending recess therein and the vertical wall of said hanger arm having a longitudinally extending slot therein.

1,469,423. YARN CLEARER AND CLEANER. JOHN HENRY MARSH, Swinton, Manchester, England. Filed Sept. 26, 1922. Serial No. 590,640. 6 Claims. (Cl. 28—66.)



1. Apparatus for clearing and cleaning yarns, said apparatus comprising a rotary shaft, circular knives mounted upon the said shaft to rotate therewith, a second rotary shaft parallel to the first and having circular knives mounted thereon to rotate therewith, the periphery of any circular knife on one shaft overlapping the periphery of any circular knife on the other shaft, with a space for yarn to pass between the overlapping portions of the knives for the clearing or cleaning of said yarn, bearings for the shafts, and means for rotating the two shafts in opposite directions simultaneously.

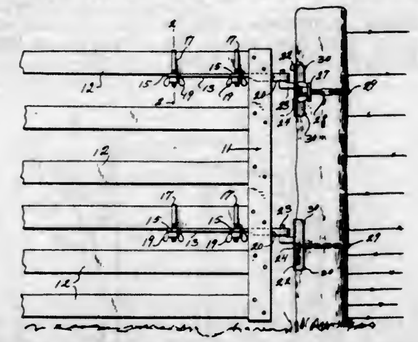
1,469,424. END-THRUST BALL BEARING. JOHN J. MCQUAID, Brooklyn, and NICHOLAS W. SAMUELS, New York, N. Y. Filed Jan. 18, 1922. Serial No. 530,090. 7 Claims. (Cl. 64—49.)



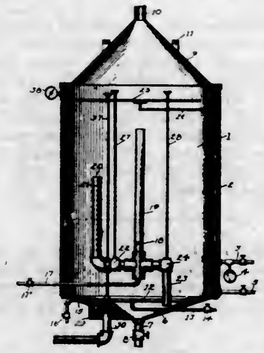
1. In a thrust bearing structure, a support, a projection carried thereby, arranged for the passage therethrough of a shaft, a cage, said cage at one end engaging said projection, and adjustable longitudinally thereof, an anti-frictional member within the cage, a retainer therefor, and a spring also within the cage acting at one end against said projection and at the other end against said retainer.

1,469,425. GATE HINGE. WILLIS E. MEHANNA, Bussey, Iowa. Filed Sept. 27, 1922. Serial No. 590,899. 2 Claims. (Cl. 16—187.)

1. In a gate hinge and in combination with a gate and gate post, the gate embodying horizontal bars, a hinge plate secured to the gate post, a bar pivotally engaged with the hinge plate and adapted to engage a horizontal face of the horizontal bar of the gate, said bar being provided at one side thereof with spaced upstanding lugs adapted to engage against a side face of the horizontal bar of the gate, and at the opposite side thereof with spaced ears having openings formed therein, bolts extended through said openings and provided with nuts abutting said ears, said bolts having their free ends uncinated and adapted to engage about the opposite face of the gate bar from that against which the attaching bar is engaged.

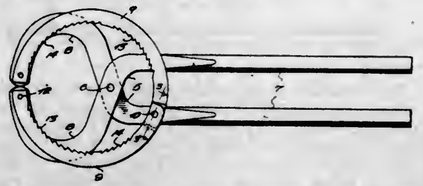


1,469,426. PROCESS FOR RECLAIMING USED OIL. JAMES ROYS MILLER, Pittsburgh, Pa. Filed Jan. 7, 1921. Serial No. 435,675. 2 Claims. (Cl. 196—26.)



1. The herein described process of reclaiming waste lubricating oil from gasoline engines, which consists of heating the oil, injecting steam into the oil whereby the particles of oil are separated and the volatile matter is driven off, adding a soap solution to the oil and injecting steam whereby the dirt and foreign matter is coagulated maintaining the temperature to expel water, and separating the solids from the oil.

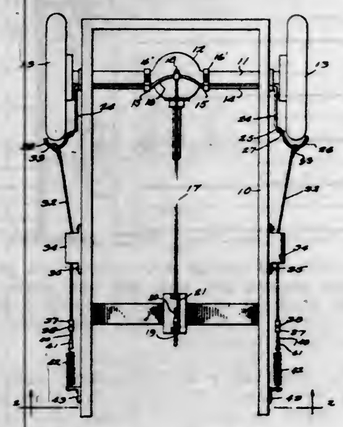
1,469,427. FRUIT-JAR WRENCH. CLYDE R. MITTAN, Virginia, Nebr. Filed Feb. 23, 1923. Serial No. 620,816. 5 Claims. (Cl. 81—3.1.)



1. A jar wrench, comprising crossed levers pivotally connected between their ends, and article-embracing clamping jaws having their ends pivotally connected

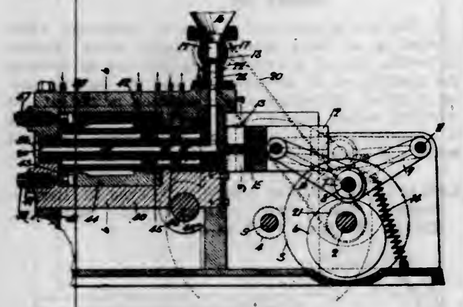
to the corresponding ends of the levers and extending rearwardly beyond the pivotal connection between the levers, said levers extending across the space between the jaws.

1,469,428. EMERGENCY BRAKE. ALVIN NELSON and LOUIS T. DU BOIS, Vallejo, Calif. Filed Feb. 1, 1922. Serial No. 533,147. 4 Claims. (Cl. 188—4.)



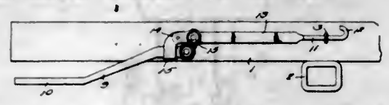
4. The combination with a vertically movable support arranged near the wheel of an automobile, of a shoe carried thereby and adapted to be moved beneath the wheel, a flexible element connected with the shoe, yielding means to retard the rearward movement of the flexible element and positively hold it against rearward movement beyond a predetermined point, and separate yielding means connected with the flexible element to complete its forward movement and raise the shoe to the uppermost position.

1,469,429. MOLDING PRESS. JOHN E. NEUMAIER, Dayton, Ohio, assignor to The Lignite Pressed Coal Company, Dayton, Ohio, a Corporation of Ohio. Filed Feb. 1, 1922. Serial No. 533,439. 18 Claims. (Cl. 25—12.)



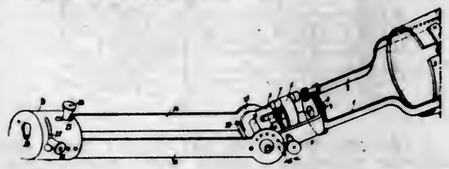
1. In a molding press, presser means and a die within which the material is compressed, a hopper for the material, a rotary head having a pocket therein intermittently brought into communication with the hopper by the rotation of the head, a movable end wall for said pocket, a screw threaded stem extending axially with said head and operatively connected with said adjustable end wall for adjusting the same to vary the capacity of the measuring head.

1,469,430. COUPLER RELEASE RIGGING. CHARLES W. NICHOLAS, Tarentum, Pa., assignor to Walter P. Murphy, Chicago, Ill. Filed Dec. 30, 1919. Serial No. 348,358. 5 Claims. (Cl. 213—164.)



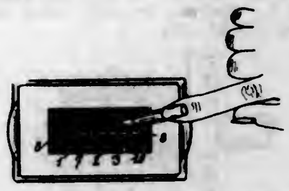
5. In a release rigging for car couplers including a pin lifting lever of the first order pivotally mounted to move in a vertical plane, and having a pivot opening intermediate its ends, one end of the lever being reduced in diameter terminating in a return bend and adapted to be slidably mounted in the eye of a lock pin of a coupler, the other end of the lever beyond the pivot opening being provided with a substantially U-shaped extension offset from one side of the lever, and an operating lever of the second order cooperatively mounted and functioning with said pin lever.

1,469,431. ARTIFICIAL ARM. ALBERT EMILE ARNAL, Paris, France. Filed Aug. 17, 1920. Serial No. 404,084. 5 Claims. (Cl. 3—12.)



1. In an artificial arm, a member attachable to a stump, a cup shaped member carried by the first mentioned member, a hook provided with a polygonal extremity adapted for insertion in the cup-shaped member, and means coacting with the polygonal extremity of the hook to maintain the latter in various angular positions with respect to the cup-shaped member.

1,469,432. PENCIL SHARPENER. HANS BERNHARD, Berne, Switzerland. Filed July 14, 1921. Serial No. 484,758. 2 Claims. (Cl. 120—86.)

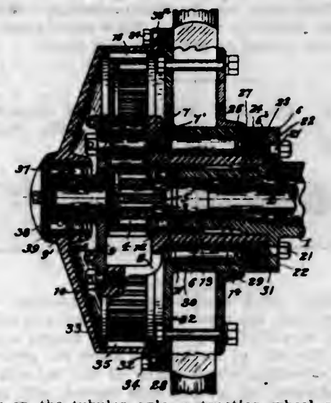


1. In a pencil sharpener operated by hand with a reciprocating movement and in combination, an upright blade with a row of parallel oblique grooves or rather indentations presenting on both sides sharp cutting edges, a channel-shaped guide-plate at the bottom of said blade and having a central slot through which the blade is passing so as to leave lateral slots allowing the evacuation of the lead dust, while the wood cuttings will drop from both ends of the guide-plate.

1,469,433. TRACTION-WHEEL DRIVE GEARING. FRANK V. ELBERTZ, Kokomo, Ind. Filed Jan. 17, 1920. Serial No. 352,151. 2 Claims. (Cl. 74—7.)

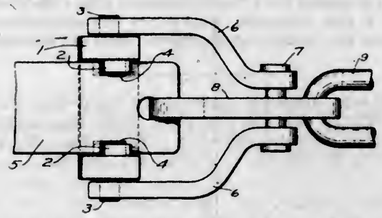
1. In a traction wheel drive gearing, the combination of a tubular axle, a driving axle, a pinion fixed on the driving axle, a bearing on the tubular axle, an annular gear member having an internal gear and external gear,

said annular gear member being provided with a part extending inwardly from one end thereof and a centrally disposed tubular bearing carried by said inwardly extending part, the tubular bearing being mounted upon the



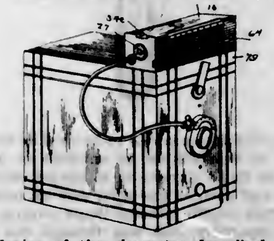
bearing on the tubular axle, a traction wheel supported for rotation upon the tubular axle, and a gear connection between the external gear of the annular gear member and the traction wheel.

1,469,434. MINE-CAR COUPLER. PATRICK JOSEPH ELLIOTT and EDWARD L. BONAMY, Newcastle, Wash. Filed June 17, 1922. Serial No. 569,174. 5 Claims. (Cl. 104—193.)



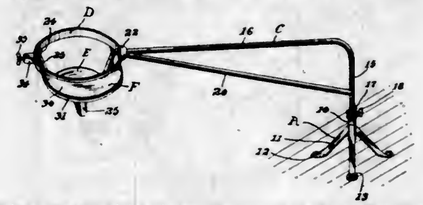
1. A device of the type described embodying an inverted U shaped bracket having sloping lugs on the inner sides of its vertical members and trunnions on the outside of them; straps pivotally mounted on the trunnions; a pin through the outer ends of the straps; a bar pivotally mounted on the pin between the straps; means for fastening the outer end of the bar to a cable; a finger on the inner end of the bar formed by cutting away a portion of the upper side; and the placing of sloping slots in the sides of car tongues.

1,469,435. EXPOSURE ATTACHMENT FOR CAMERAS. GEORGE J. FISCHER, Long Island City, N. Y. Filed Oct. 14, 1920. Serial No. 416,937. 5 Claims. (Cl. 161—26.)



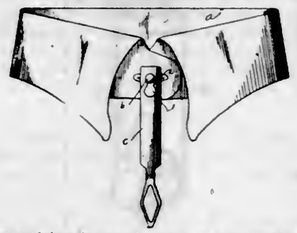
1. In a device of the character described, means for controlling a camera shutter comprising a casing having a cylindrical chamber, a cylindrical element fitted within said casing, and being open at one end and closed at the other, and a reciprocating piston within said cylindrical element, valve-means for admitting air to said cylindrical element and piston, and valve-means operable by the plunger element for releasing air.

1,469,436. BABY WALKER OR EXERCISER. MILTON G. FORNIA, Carbonado, Wash. Filed Jan. 24, 1921. Serial No. 439,522. 1 Claim. (Cl. 155—23.)



As a new article of manufacture, a baby walker comprising a base including a hollow socket, an L-shaped rotatable member, means adjustably and rotatably mounting the shorter leg of the L-shaped member in the socket of the base, a hoop, a radially extending socket formed on the periphery of the hoop arranged to receive the outer terminal of the longer leg of the L-shaped member, a seat adjustably carried by the loop, and a diagonally extending strut secured to the shorter and longer leg of the L-shaped member, the outer end of this strut abutting the outer face of the socket and connected with the said longer leg at the outer end thereof whereby a suitable brace is formed for both legs of the L-shaped member and for the hoop.

1,469,437. COLLAR-BUTTON ATTACHMENT OR GUARD. FRED FREDRICKSON, Chicago, Ill. Filed Mar. 7, 1921. Serial No. 450,510. 1 Claim. (Cl. 24—40.)

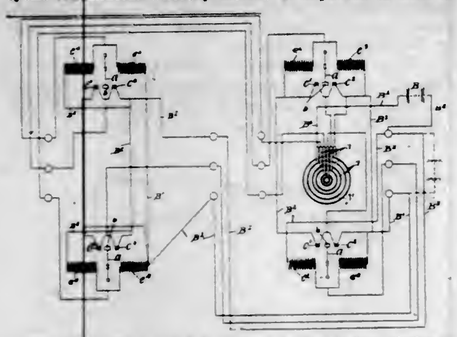


As a new article of manufacture, a shirt collar lock and button guard comprising a flat narrow strip of metal having an opening at one end thereof arranged to be placed over the head of a collar button in use and lock down behind the head so as to hold the button and collar in place, said opening being circular at one end of sufficient size to pass over the head of a collar button and extending into a restricting slot having parallel sides smaller than the head but adapted to receive the shank of the collar button so as to lock between the head and collar, the depending end of said strip being curved outwardly below the collar to conform to the body of the wearer.

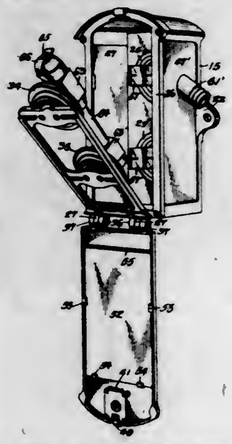
1,469,438. ELECTRICAL APPARATUS FOR THE LOCAL AND DISTANT REPETITION OF MOVEMENTS. JAMES FRANCIS GILL and JOHN NICHOLAS CHAVIARA, Liverpool, England. Filed Mar. 1, 1920. Serial No. 362,490. 3 Claims. (Cl. 177—337.)

1. In combination, electrical transmitting and receiving mechanisms, a pair of electromagnetically actuated stepping devices in each mechanism, an electric circuit including said stepping devices, a movable circuit controlling device interposed in said circuit and associated with said stepping devices, said circuit controlling device being movable by externally operated means and by the transmitter stepping devices, an index in the receiving mechanism

movable by the stepping devices in said mechanism, epicyclic mechanism whereby motion is imparted in each direction from the stepping devices to the index of the receiving mechanism and from the stepping devices to the circuit controlling device in the transmitting mechanism.

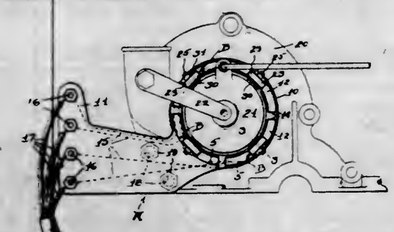


1,469,439. FUSE-BOX CONSTRUCTION. HORACE P. LIVERSIDGE, Bala, Pa. Filed Sept. 26, 1918. Serial No. 255,771. 15 Claims. (Cl. 200—133.)



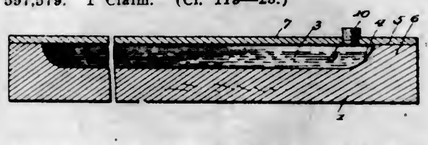
1. In a fuse box, a back piece adapted to form a support for the box, in combination with a back panel therefor, removable side and front parts adapted to be connected with the back piece without removal of the back piece, separate insulators at the front and back, the back insulators holding the back panel in place and contacts carried by the insulators.

1,469,440. TIMER EXTENSION. LEE W. LOCKWOOD, Minneapolis, Minn. Filed Dec. 21, 1920. Serial No. 432,276. 3 Claims. (Cl. 200—23.)



2. The combination with an engine equipped with an oscillating timer, of an extension member adapted to be secured to the engine and carrying fixed contact plates and binding posts removed from said plates, each of said plates being electrically connected with one of said posts, contact members adapted to be applied to the terminal posts of the timer, each member comprising a block having a bore therein to receive a timer binding post and a contact shoe yieldingly carried on said block.

1,469,441. POULTRY PERCH. JOHN MANCHESTER, North Loup, Nebr. Filed Oct. 28, 1922. Serial No. 597,579. 1 Claim. (Cl. 119—25.)



A poultry perch comprising a bar provided with a groove cut into the upper face of the bar and extending from end to end of said bar, said bar having a channel cut into the body of the bar and below the groove, said channel extending longitudinally of the bar and terminating adjacent the opposite ends thereof, with the ends of the channel curved upwardly toward the groove and outwardly toward the end of the bar, the groove and channel cooperating to form shoulders on opposite sides of the channel and below the upper face of the bar, an elongated cover adapted to be snugly fitted within the groove and seat upon the shoulders and the opposite grooved ends of the bar for closing the channel, said cover being frictionally engaged by the sides of the groove and provided with a perforation at one end forming an opening for filling the channel with a disinfectant and a cork removably mounted in the perforation for sealing the contents of the channel from the atmosphere.

469,442. CARBON CARTRIDGE ADAPTED TO BE USED AS INITIAL IGNITER. ADOLF MESSER, Frankfort-on-the-Main, Germany. Filed Aug. 29, 1921. Serial No. 496,767. 1 Claim. (Cl. 102—6.)



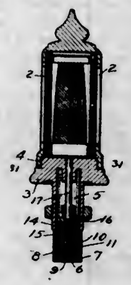
A carbon cartridge adapted to be used as initial igniter comprising in combination an envelope of a paper impermeable to liquid oxygen or to oxygen vapours closed at one end and open at the other end, an inner sleeve of a paper which readily absorbs liquid oxygen, is of good insulating capability, and lets through the oxygen vapours, a charge of carbon in said inner sleeve, a stopper tightly fitting into the open end of said envelope made from incombustible material which does not let through the oxygen vapours, said stopper having a central bore, a primer inserted into this central bore of the stopper so that it projects into the charge of the cartridge and consisting of a sleeve of paper possessing great resistance, said sleeve having a narrow hole in the bottom plate, a small plug glued in the upper end of said primer and having a conical bore with a very narrow lower end, a charge of soot in said primer, a charge of easily combustible wool in said conical bore of the plug, a holding device in said central bore of the plug consisting of elastic pointed tongues of thin sheet metal and a fuze inserted into the primer and securely held by said device.

1,469,443. ENGINE-REVERSING SHAFT IN EXPLOSION MOTORS. VICTOR REMBOLD, Kiel, Germany. Filed Aug. 31, 1921. Serial No. 497,448. 2 Claims. (Cl. 123—41.)



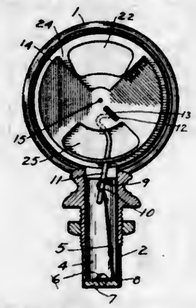
1. In reversing gear for explosion motors, the combination with said motor and its main crank-shaft, of a lay-crank-shaft driven by the said main shaft, a plural part reversing shaft, the one part of same being a swinging cranked member, connecting rods coupling the latter with the said lay-crank-shaft, and yielding coupling means between the several parts of the reversing shaft.

1,469,444. RADIATOR METER. MICHAEL W. RYAN and MICHAEL UTTENDORFER, Seattle, Wash. Filed Nov. 19, 1921. Serial No. 516,339. 1 Claim. (Cl. 116—114.)



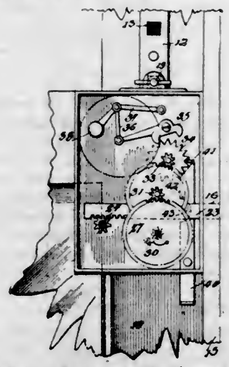
A temperature indicator having a cylinder directly attached to a thermostatic element; said cylinder being made of celluloid and in two halves with an open space between them, each of said halves having a red and green section, said cylinder having a metal band at each end and a disc at the lower end with a stem projecting from it by which it is attached to the thermostatic element; said thermostatic element being in the form of a coil spring; and said cylinder and thermostatic element being mounted in a suitable casing which has bearings for the stem of the cylinder and to which the free end of the thermostatic element is attached, and said casing having a glass tube which surrounds the cylinder, and openings through it through which the cylinder may be seen.

1,469,445. RADIATOR METER. MICHAEL W. RYAN and MICHAEL UTTENDORFER, Seattle, Wash. Filed Jan. 6, 1922. Serial No. 527,466. 1 Claim. (Cl. 116—114.)



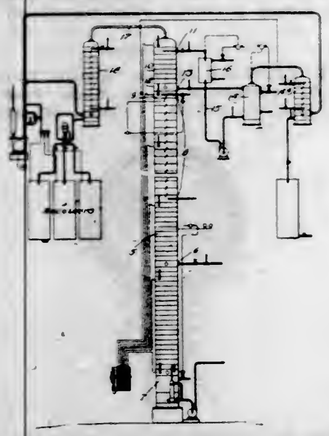
A device for indicating the temperature of the water in a motor vehicle radiator having a plate with openings in it pivoted in a casing that has windows through it to correspond with the openings in the plate when the plate is in the normal position, said casing having a tubular shaped section projecting from its lower side, which section is threaded at its exterior; a piece of thermostatic material standing practically vertical in the tubular shaped section and having its lower end attached to the lower end of the section which is closed; a bar attached to the upper end of the thermostatic element and having its free end bent at right angles and projecting through a slotted hole in the plate that is pivoted in the casing; and indications on the plate which will show through the openings in the casing as the plate is rotated by the lateral motion resulting from the expansion and contraction of the thermostatic element.

1,469,446. WINDOW LOCK AND ALARM. RUDOLF SALAMON, New York, N. Y. Filed Nov. 20, 1920. Serial No. 425,381. 1 Claim. (Cl. 116—16.)



In combination, a casing, a horizontal rack bar slidable therein, a rail having perforations to receive the end of the locking bar, a pin extending laterally from the locking bar, a train of gearing including an escapement wheel and escapement mechanism, a lever having a cut away portion against which the pin bears and having its end normally in engagement with the escapement wheel to prevent operation of the gearing, and an alarm mechanism operable by the escapement mechanism.

1,469,447. ABSOLUTE ALCOHOL. JOSEPH SCHNEIBLE, Chicago, Ill. Filed Oct. 30, 1922. Serial No. 597,837. 6 Claims. (Cl. 195—6.)



1. In a distillation process, the method of producing dehydrated alcohol which consists in passing alcohol vapors into intimate contact with glycerine at a temperature above the temperature of said vapors, removing the dehydrated alcohol vapors and separately removing the glycerine.

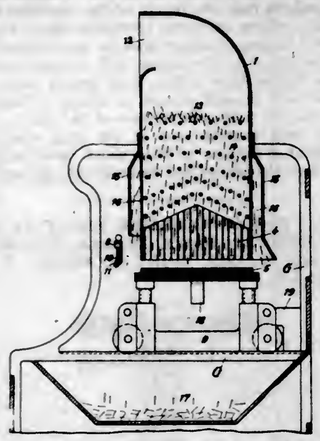
1,469,448. FLEXIBLE JOINT. ELMER S. SEAVEY, Johnstown, Pa. Filed Apr. 3, 1922. Serial No. 548,942. 10 Claims. (Cl. 287—1.)



1. In a flexible joint, comprising a pair of supporting elements, a clamping-bolt having a perforated head and flat side faces for receiving one of the supporting elements, a bridge-block U-shaped in cross-section with its sides engaging the flat side faces of the head of the bolt mounted on the bolt having perforations therein on each side of the bolt in alignment with the perforations formed in the head of the bolt, a resilient clamping member rotatably mounted upon the clamping-bolt and frictionally engaging the bridge-block and adapted to hold the other supporting element, a washer keyed to the bolt, and a nut on the bolt for increasing or decreasing frictional engagement between the clamping members and supporting elements.

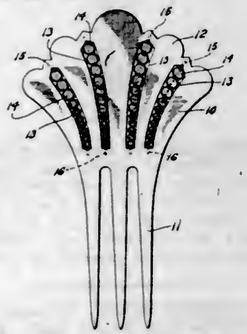
1,469,449. BRUSH-MAKING MACHINE. ARTHUR EPHRAIM SILANDER, Berlin, Germany. Filed July 25, 1921. Serial No. 487,482. 3 Claims. (Cl. 300—9.)

1. In a brush and like making machine, a bristle-distributing hopper, sleves arranged in said hopper so as to pass and parallel the bristles, partitions forming vertical channels at the bottom of the hopper for delivering the paralleled bristles, a slotted template arranged so as to receive the paralleled bristles into its slots from the channels, guides on which the template can be reciprocated in its own plane, a plate arranged so to sweep the template when the latter moves in one direction and pack the bristles into the slots, and a comb arranged so



as to sweep the remaining bristles from the surface of the template when the latter moves in the opposite direction, substantially as set forth.

1,469,450. HAIR COMB. JOHN H. STONE, Edgewood, R. I. Filed Feb. 21, 1922. Serial No. 538,351. 4 Claims. (Cl. 41—34.)



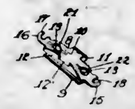
1. An ornamental comb having an opening therein, recesses in the walls of the opening, a series of beads strung upon a length of wire, the ends of the wire projecting beyond the end beads of the string and secured in said recesses whereby the beads are locked on the wire and the whole in said comb.

1,469,451. STYLUS MOUNTING FOR REPRODUCERS. JULIUS A. BROWN, Peekskill, N. Y., assignor to Ernest Loomis, Peekskill, N. Y. Filed Mar. 2, 1922. Serial No. 540,436. 2 Claims. (Cl. 274—35.)



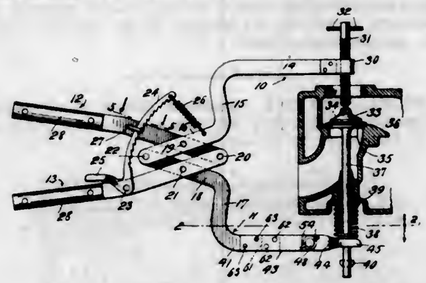
1. A stylus mounting comprising a frame having a pair of ears at one side, a plate spring, a stylus arm secured to the spring at its middle portion, the end portions of the spring being secured to said ears, the upper edge of the spring being extended transversely to the spring, but free from the arm.

1,469,452. SPRING STYLUS MOUNTING FOR PHONOGRAPHS. JULIUS A. BROWN, Peekskill, N. Y., assignor to Ernest Loomis, Peekskill, N. Y. Filed July 7, 1922. Serial No. 573,425. 2 Claims. (Cl. 274—35.)



1. A stylus arm mounting, comprising a flat strip of resilient sheet metal substantially H-shaped, the middle connecting portion being bent to bring the two bar portions substantially parallel, one bar of the strip being secured to the reproducer frame, the other bar portion being secured to the stylus arm bracket at its middle part, said latter bar having slots at the end portions, and screws passed through each said slotted portion into the frame.

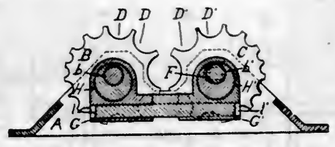
1,469,453. VALVE-SPRING LIFTER FOR AUTOMOBILE AND OTHER ENGINES. DOMINICK CLERICO, Yonkers, N. Y. Filed Jan. 27, 1922. Serial No. 532,064. 5 Claims. (Cl. 29—86.3.)



2. A tool for compressing a valve spring comprising upper and lower jaws having inwardly extending portions and thence rearwardly converging members pivoted together at their rear ends, upper and lower handle bars whose forward portions converge and are pivoted together at their forward ends and which portions cross the said rearwardly converging members of said jaws and are pivoted thereto at corresponding points between the vertical planes of the pivot points at the forward end of said handle bars and rear end of said jaw members, and a manually releasable rack for holding the handle bars in their closed relation in opposition to the force of the valve spring, the forward end of the upper jaw having means for engaging the top of the valve, and the forward portion of the lower jaw consisting of oppositely disposed spaced apart bars adapted to straddle the valve spring and having seats to pass below said spring and compress the same when the handle bars are pressed in a direction toward each other, said spaced apart bars having means for setting them in adjusted relation to each other whereby to adapt the tool for springs varying in diameter and said means consisting of a manually operative screw engaging a threaded hole in one of said bars and having a reduced threaded end passing freely through a hole in the other bar against which the body of the screw abuts, a washer on said reduced end engaging the outer face of said other bar and a nut on said end engaging said washer.

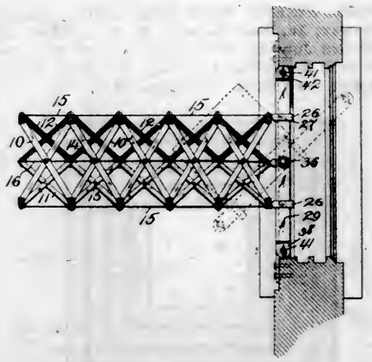
1,469,454. VISE. MARK DEAN, Boonville, N. Y. Filed July 21, 1921. Serial No. 486,461. 2 Claims. (Cl. 81—19.)

1. A vise which comprises a suitable base; uprights rising therefrom, a pair of revoluble cylinders mounted upon said uprights, said cylinders having peripheral gripping depressions of various sizes, adapted to register with their corresponding depressions to grasp and hold the article to be treated while held in said vise, and a rev-



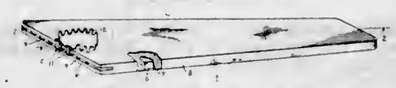
oluble cam adapted to move one of said cylinders toward and from the other to form or release the grip on said article.

1,469,455. RACK. THEODOR DUBYK, Passaic, N. J. Filed Mar. 15, 1922. Serial No. 543,888. 3 Claims. (Cl. 68—3.)



3. In a rack, a bracket formed of three sets of toggles connected together to form a triangular bracket in cross-section, a line attached to the bracket at separated points so as to be extended with it, and means at one end for supporting the bracket.

1,469,456. IRONING BOARD. ALBERT EDWARDS, Brooklyn, N. Y. Filed Aug. 30, 1921. Serial No. 496,847. 1 Claim. (Cl. 68—10.)

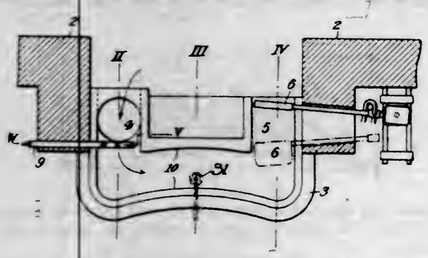


The combination with an ironing board provided with a slot in the edge thereof, and a cover adapted to be placed over said board having a portion thereof projecting beyond the edge of the board and adapted to be inserted in said slot, of a securing device adapted to be placed in said slot and to secure therein a portion of said cover, an iron-rest, and devices adapted to swingingly connect said iron-rest to said securing device.

1,469,457. MANUFACTURE OF GLASSWARE. ROBERT GOOD, Washington, Pa. Filed May 2, 1921. Serial No. 466,117. 6 Claims. (Cl. 49—56.)

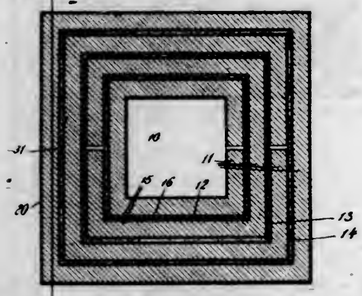
6. In apparatus for making articles of glass, a furnace or tank, a channel for the molten glass communicating at both its ends with the main body of the glass in the furnace, means for causing the molten glass to flow through

the channel, the breast of the furnace immediately above the inner edge of said trough being slotted to permit the



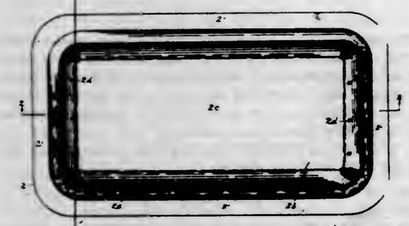
escape of heat from within the furnace chamber to maintain the glass in the trough in a highly heated condition.

1,469,458. KINETIC HEAT INSULATION. WILLIAM S. HADAWAY, Jr., New Rochelle, N. Y. Original application filed July 26, 1917, Serial No. 182,815. Divided and this application filed Aug. 18, 1921. Serial No. 493,486. 23 Claims. (Cl. 219—38.)



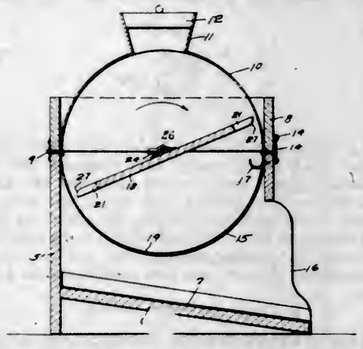
1. A heat insulation comprising a plurality of spaced layers of unlike materials, each adapted to the temperature to which it is subjected, spacers between adjacent layers, each spacer comprising a pair of spaced metallic walls and a mass of granular refractory material positioned between said walls, passages connecting adjacent spacers in successive order, and means for supplying steam to a predetermined one of said spacers.

1,469,459. GRAVE URN. THOMAS W. QUIGLEY, Syracuse, N. Y. Filed June 19, 1922. Serial No. 569,483. 6 Claims. (Cl. 72—7.1.)



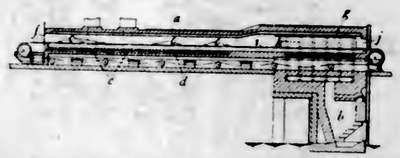
1. A combined urn and grave covering comprising an oblong body having an upwardly facing hollow rib surrounded by a continuous flange and encircling a crater adapted to be filled with soil and the bottom of said crater and said flange being substantially in the same plane.

1,469,460. CRUSHING AND SEPARATING MACHINE. GIOVANNI STRIZZI, New Castle, Pa. Filed Feb. 9, 1923. Serial No. 618,114. 2 Claims. (Cl. 146—174.)



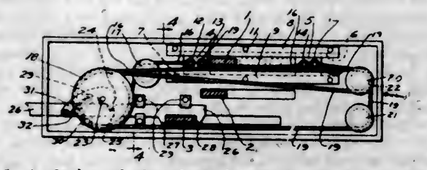
1. A machine of the character described comprising a cylinder having a perforated lower portion, a dasher of plate-like formation therein, said dasher having its corners cut away and hooks carried by the cylinder disposed in the path of the cut out portions of the dasher as and for the purposes set forth.

1,469,461. FURNACE. THEODOR TEISEN, Birmingham, England. Filed July 14, 1920. Serial No. 396,253. 2 Claims. (Cl. 49—47.)



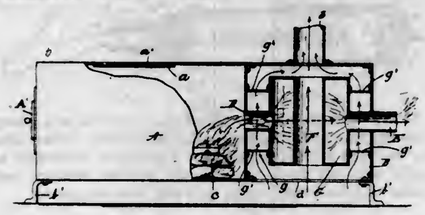
1. In furnaces, kilns or lehrs, the combination comprising a long horizontal cooling chamber through which are conveyed the articles to be treated, a collecting flue located beneath the floor of the chamber, a plurality of passages arranged at intervals in the side walls of the said chamber with their inlet ends at a distance above the floor of the chamber and located between the chamber and collecting flue, and a branch outlet flue for discharging hot gases from the collecting flue, substantially as described.

1,469,462. SAFETY APPLIANCE. JOSEPH P. TENNIS, Seattle, Wash. Filed Oct. 31, 1922. Serial No. 598,111. 4 Claims. (Cl. 74—39.)



1. A device of the class described embodying slides supported in grooves in a suitable casing, said casing being constructed so that it may be placed around the clutch and brake levers of a motor vehicle in such a manner that the two slides may engage the clutch lever; suitable means for moving the slides together as the brake is applied which will also move them away from each other as the brake is released and other means for partly closing the throttle valve as the brake is applied.

1,469,463. STOVE. CHARLES C. TOZIER, Wrentham, Mass.; Angier L. Goodwin executor of said Charles C. Tozier. Filed Aug. 17, 1922. Serial No. 582,436. 2 Claims. (Cl. 126—61.)

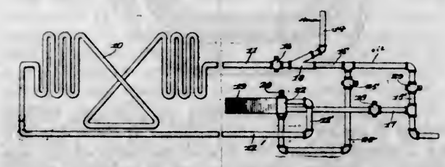


1. A stove comprising a combustion chamber, a chamber adjoining the same, a hot air drum within the last-named chamber having a central vertical passage and in communication with the combustion chamber, the second-named chamber having means adjacent the bottom thereof for the admission of air through and around the hot air drum, an exit pipe for hot air from the chamber adjoining the combustion chamber and in vertical alinement with the passage through said drum, and inlet and outlet flues for the products of combustion through the hot air chamber and through the drum.

1,469,464. TRACK SURFACER AND CLEANER. PASQUALE URSINO, Seattle, Wash. Filed Dec. 13, 1920. Serial No. 430,192. 6 Claims. (Cl. 37—104.)

1. In apparatus of the character described, the combination with a railway track, of a railway car provided with apparatus rendered operative by the travel of the car for successively removing surplus material from above the ties, discharging said material from the track, pressing down the earthy material between the ties, and sweeping the ties.

1,469,465. SUPERHEATING OIL BURNER. STEVE JENAR VELTON, Houston, Tex. Filed May 23, 1922. Serial No. 563,053. 4 Claims. (Cl. 158—28.)

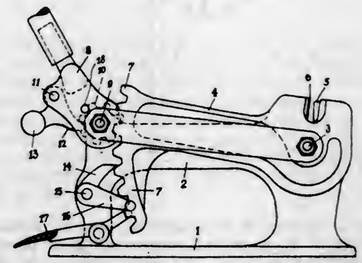


1. A steam and oil burning system comprising a superheating coil, a burner, connections between the coil and the burner, an oil conduit, a steam conduit connected with the oil conduit and with the coil, cut-off valves in the oil and steam conduits, and a valve in the burner adapted to be moved into controlling positions relative to the positions of the cut-off valves, for cutting out the coil and for controlling the flow of steam and oil.

1,469,466. PRODUCTION OF CREOSOTE MIXTURE FOR IMPREGNATING WOOD. ISIDORE FRANÇOIS VERMEIRE, Brussels, Belgium. Filed Dec. 12, 1922. Serial No. 606,542. 11 Claims. (Cl. 134—78.6.)

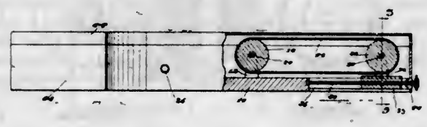
10. A product containing approximately 70 parts of creosote, and, approximately, 6 parts of commercial phenol at 32%, 9.5 parts of tar, 8 parts of light tar oil, and 6.5 parts of benzol.

1,469,467. SHEARS FOR IRON AND SIMILAR MATERIALS. ANTON WAGENBACH, Elberfeld, Germany. Filed June 17, 1921. Serial No. 478,371. 2 Claims. (Cl. 164—46.)



1. Shears for iron and similar materials, provided with a hand lever, a shift pawl arranged on the said hand lever, a toothed wheel and a movable jaw with a toothed arch meshing with said wheel, the said pawl being free to engage itself with the ratchet wheel by its own weight in the elevated position of the hand lever, and to disengage itself while the pressure ceases at the lowered position of the hand lever.

1,469,468. STROPPING DEVICE. GEORGE W. WALTON, Mission, Tex. Filed Sept. 18, 1920. Serial No. 411,026. 2 Claims. (Cl. 51—135.)



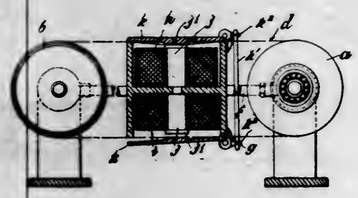
1. In a razor stropping device, a casing including a base, a reversible motor arranged on the base within the casing and having the armature shaft thereof extending transversely of the base, a pair of shafts rotatably mounted upon said base to one side of said motor, means operable from the exterior of the casing for adjustably varying the distance between the shafts of said pair, a stropping belt driven by the pair of shafts, and means for connecting said pair of shafts to the armature shaft of said motor to be driven thereby, comprising a pulley secured to said armature shaft, a second pulley mounted upon one shaft of said pair of shafts, means operable from the exterior of the casing for shifting said second pulley longitudinally of said shaft, and a lug formed upon the shaft bearing the second pulley, said second pulley being provided with a notch adapted for the reception of said lug.

1,469,469. METHOD OF AND MEANS FOR APPLYING THE INSULATION OF HIGH-TENSION COILS. STANLEY ROBERT WAIGHT, Rawdon, near Leeds, England, assignor to Igranic Electric Company Limited, London, England, a Corporation of Great Britain. Filed Aug. 22, 1921. Serial No. 494,409. 2 Claims. (Cl. 175—362.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



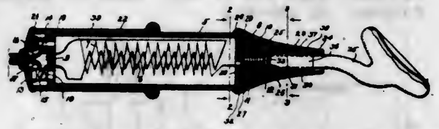
1. In a winding of high tension coils, an insulating strip adapted to be wound between adjacent layers of the conducting winding, said strip varying in width from one end to the other for the purpose specified.

1,469,470. VARIABLE RECIPROCATING TRAVERSE MECHANISM. STANLEY ROBERT WRIGHT, Rawdon, near Leeds, England, assignor to Igranic Electric Company Limited, London, England, a Corporation of Great Britain. Filed Aug. 22, 1921. Serial No. 494,410. 5 Claims. (Cl. 242—158.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



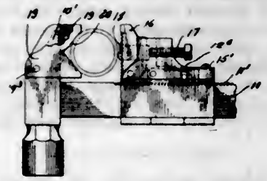
3. A traverse mechanism for coil winding machines comprising a reciprocable guide for the material to be wound, two electromagnets in line with one another and rigidly connected to said guide, armatures for the remote poles of the electromagnets respectively, said armatures being connected together whereby attraction of one armature to its respective pole effects movement of the other armature from its respective pole, an endless belt of magnetic material adapted to be driven unidirectionally and so arranged that portions of its length which travel in reverse senses pass respectively between each electromagnet and its armature and means for alternately energising said electromagnets so as to cause them to attract each its armature and the portion of the belt passing between itself and its armature.

1,469,471. ELECTROTHERAPEUTIC APPARATUS. EUGENE ABA, Los Angeles, Calif. Filed Nov. 12, 1921. Serial No. 514,570. 6 Claims. (Cl. 174—89.)



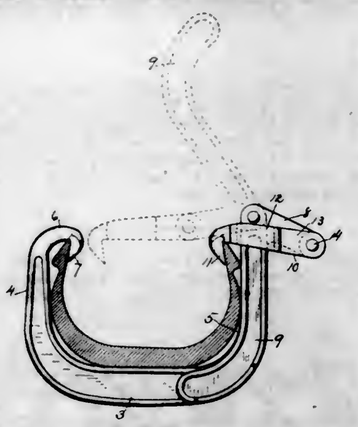
1. An electrode holder, comprising a pair of end pieces, a casing interposed between said end pieces, a stay member mounted in said casing, and means for removably securing said end pieces to said stay member, whereby said casing may be firmly bound between said end pieces.

1,469,472. COMBINATION TOOL. ADOLPH BANGERT, Union Hill, N. J. Filed Nov. 12, 1921. Serial No. 514,539. 3 Claims. (Cl. 81—181.)



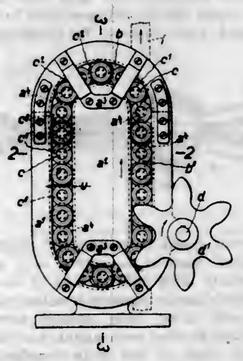
1. The herein described combination tool, comprising a stationary jaw formed with a stem, a sleeve slidably and adjustably borne on said stem, a tiltable jaw on said slide having a recess, a blade adapted to be removably borne in said recess, an adjustable common rear abutment for both said tiltable jaw and said blade, and a supplemental V-shaped jaw adapted to fit over said stationary jaw and capable of being fixed thereto to cooperate with said blade as pipe cutter.

1,469,473. TIRE SPREADER. PALMER RUBIN BATTALINE, Hartford, Conn. Filed Dec. 20, 1919. Serial No. 346,418. 3 Claims. (Cl. 152—27.)



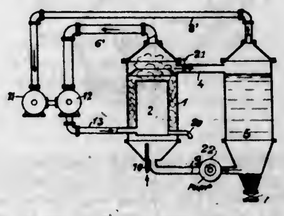
1. A tire spreader comprising an anchoring member formed to extend across the periphery of a tire and having a member to grip the tire on the inside of one edge thereof, a member pivotally attached to said anchoring member and comprising a spreader lever extending in one direction from the pivot and a handle extending in another direction from the pivot and at an angle to said lever, and a spreader bar pivotally supported by said lever to grip the tire on the inside of the opposite edge thereof.

1,469,474. COMPENSATING DEVICE FOR CINEMATOGRAPHS. WALTHER BAUERSFELD, Jena, Germany, assignor to the Firm of Carl Zeiss, Jena, Germany. Filed June 14, 1922. Serial No. 568,297. 5 Claims. (Cl. 88—16.8.)



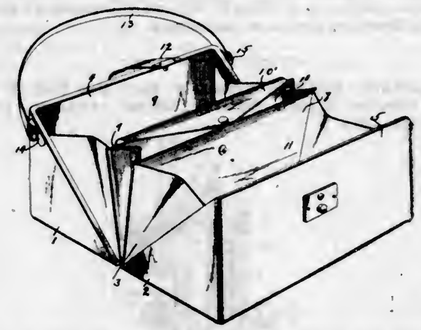
1. In a compensating device for cinematographs an endless series of lenses affording optical compensation of the travelling of the image, the said lenses being movable in a plane perpendicular to their optical axes, a body having a slit, a part of the said slit being rectilinear, the said lenses being without relative connexion and their mounts, on traversing the said rectilinear part, being contiguous to each other, and a system of wheels actuating the lenses and engaging in the lens mounts.

1,469,475. METHOD OF EVAPORATION AND APPARATUS THEREFOR. ELIAS WIRTH-FREY, Aarau, Switzerland. Filed Sept. 18, 1919. Serial No. 324,590. 2 Claims. (Cl. 159—24.) Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



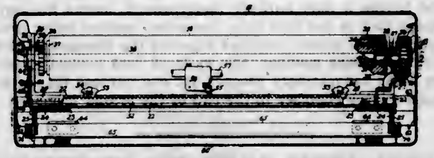
2. The hereinbefore described evaporating apparatus, which comprises in combination, a primary evaporator, a heating element therein, means for supplying fresh brine from below into said primary evaporator, an exhaust steam vent in the top of said primary evaporator and a brine collector in the upper part of said primary evaporator; a secondary evaporator, an exhaust steam vent and a salt discharge member in the top and bottom respectively, of said secondary evaporator, conduit connection between the said two evaporators at the level of said brine collector and cooperating therewith, and conduit connection between the lower parts of said two evaporators, the said means for supplying fresh brine to said primary evaporator and said lower conduit connection arranged in close cooperative position, and means in connection with said exhaust steam vents for withdrawing the exhaust steam from out of said two evaporators, for compressing the withdrawn exhaust steam and forcing it into the said primary evaporator heating element.

1,469,476. HAND BAG. LEOPOLD HAUSER, New York, N. Y., assignor to Leopold Hauser and Simon Weil, both of New York, N. Y., Copartners doing business as Hauser & Weil. Filed June 2, 1922. Serial No. 565,383. 3 Claims. (Cl. 150—28.)



2. A hand bag comprising two substantially rigid members constituting the two sides of the bag, each of said side members having an upper and a lower flat surface, a flexible connection between said side members and constituting end walls for the bag, the lower flat surface of the said side members being so disposed relatively to each other as to constitute a substantially flat unbroken surface when the bag is in open position to support the bag in an upright position.

1,469,477. TYPEWRITING MACHINE. JOSEPH B. HOLDEN, Syracuse, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Oct. 15, 1919. Serial No. 330,747. 13 Claims. (Cl. 197—186.)



1. The combination with a carriage, escapement means normally restraining movement of said carriage, and a carriage releasing means for freeing said carriage from the restraint of said escapement means, of a part movable from a working position to a compacted position, said part being so related to said releasing means as that said carriage is necessarily freed from the restraint of said escapement means when said part is compacted.

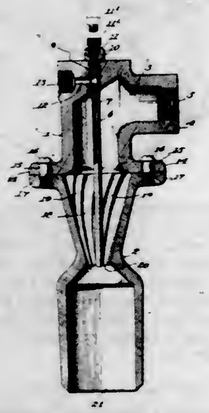
1,469,478. BAG-FRAME FASTENER. JOSEPH S. ISIDOR, Newark, N. J., assignor to The R. Neumann Hardware Co., a Corporation of New Jersey. Filed June 9, 1921. Serial No. 476,162. 6 Claims. (Cl. 292—210.)



1. In combination with a pair of hinged bag-frame sections, a bag-frame fastener comprising a casing mounted upon one of said frame-sections, said casing being provided with a latch-plate receiving depression, a cover-plate connected with said casing and adapted to be moved

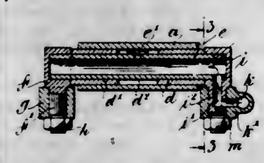
over said depression, a bracket-member attached to the vertical face of the other frame-section, a latch-plate, a means of pivotal connection comprising links for flexibly connecting said latch-plate with said bracket-member, said latch-plate being adapted to be moved into registration with said depression, and means connected with said latch-plate adapted to be brought into locked engagement with the depressed portion of said casing.

1,469,479. BURNER. THOMAS F. KENT, New York, N. Y. Filed Oct. 4, 1921. Serial No. 505,307. 4 Claims. (Cl. 158—76.)



1. A burner of the character described formed of two members, the one member being provided with a chamber for the admission of a medium to form a part of the combustible mixture, a fuel tube carried by said member and having a duct entirely therethrough, means for supplying fuel to the fuel tube, the other member being provided with a conical chamber adjacent the chamber of the first mentioned member, the walls of said conical chamber being convergingly grooved for the purpose set forth, and a mixing chamber in the end of the second member.

1,469,480. ROCKER-ARM MOUNTING FOR INTERNAL-COMBUSTION ENGINES. KEITH R. MANVILLE, Brooklyn, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 6, 1922. Serial No. 605,315. 3 Claims. (Cl. 64—27.)



1. In combination with a rocker arm for valves a tubular shaft on which the arm is mounted and through which a lubricant is supplied under forced-feed to the arm, journals for supporting the shaft and means for dismounting the shaft with the arm as a unitary structure.

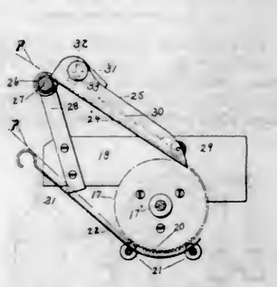
1,469,481. VEHICLE SIGNAL. PETER J. MESSER, Olean, N. Y. Filed Nov. 7, 1919. Serial No. 336,499. 2 Claims. (Cl. 177—329.)

2. In combination with the frame of an automobile, a vertically projecting bracket, an elongated body pivotally mounted on said bracket at a point intermediate its ends, and enclosing the upper end of said bracket, a vertical spindle secured to said body and rotatively mounted on said bracket for rotatively securing said body to said bracket, a beveled gear segment journaled on said bracket within the enclosure of said body, a beveled gear segment rigidly mounted on said spindle within the enclosure of said body and meshing with said first mentioned gear segment, a coiled spring between said bracket and said last mentioned gear segment for yieldingly holding said



body in normal position, means for rotating said first mentioned gear segment to rotate said body about its pivot, a separate lamp bulb located in each end of said body, a separate spring pressed terminal electrically connected to each lamp bulb, spaced terminals fixedly mounted on the bracket each adapted to be engaged and disengaged by one of the body terminals during the movement of the body, said terminals being located in the enclosure of said body.

1,469,482. TYPEWRITING MACHINE. ROBERT J. ORR, Woodhaven, N. Y., assignor of one-half to Stephen Scammacca, Brooklyn, N. Y. Original application filed Sept. 23, 1918, Serial No. 255,326. Divided and this application filed Aug. 20, 1921. Serial No. 493,849. 9 Claims. (Cl. 197—127.)

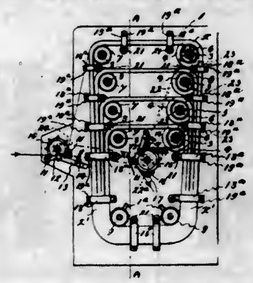


1. In a writing machine, the combination with a platen, of a paper shelf to extend longitudinally of and above the platen with the leading edge above the line of writing on the platen, and arranged to be moved to position with the leading edge of the shelf out of or in engagement with the platen, and fingers carrying rollers to yieldingly engage with the shelf and arranged to be moved into and out of engagement with the shelf.

1,469,483. WINDING MECHANISM FOR ENDLESS BANDS OR FILMS FOR CINEMATOGRAPHS OR OTHER MACHINES. RICHARD HAKING PARKINSON, London, England, assignor to Attractive Publicity, Limited, London, England. Filed Dec. 9, 1922. Serial No. 605,895. 10 Claims. (Cl. 88—18.7.)

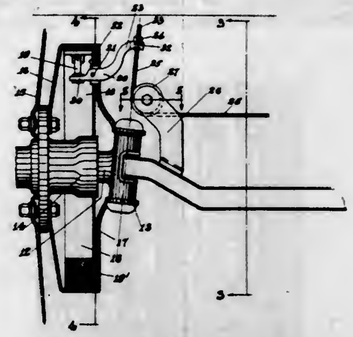
1. Winding apparatus for endless bands or films comprising film supporting rollers engaging the inner convolutions of the roll and driven thereby other rollers engaging the inner convolution of the roll and driven thereby, discs associated with said second rollers and engaging the edge of the film and driven at a speed coincident with the speed at which the film passes through

the machine, a sprocket drum over which the film passes to the roll of film, a second sprocket drum over which



the film passes to the machine, said sprocket drums being driven at a speed co-incident with the speed at which the film passes through the machine.

1,469,484. BRAKE-ACTUATING MECHANISM FOR STEERING WHEELS. EARL J. W. RAGSDALE, Norristown, Pa., assignor to Budd Wheel Company, Philadelphia, Pa. a Corporation of Pennsylvania. Filed June 16, 1922. Serial No. 568,837. 16 Claims. (Cl. 188—194.)



5. In a motor vehicle, the combination of a relatively stationary axle, a spindle pivoted at the end thereof, a wheel mounted on said spindle, a brake drum fixed to revolve with the wheel, brake mechanism coacting with said brake drum and mounted to swivel with the spindle, a cable for actuating said brake mechanism, and a part fixed to the axile and engaging the cable to form a stretch thereof leading to the brake mechanism from a point on the axis around which said brake mechanism swivels.

1,469,485. MAGAZINE BOX FOR CINEMATOGRAPHIC OR PHOTOGRAPHIC APPARATUS. GIOVANNI RIVETTA, Paris, France, assignor to Sept Cinema Camera Distributors, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 15, 1921. Serial No. 461,496. 2 Claims. (Cl. 242—71.)



1. A magazine box for cinematographic and photographic apparatus, comprising two cylindrical members arranged concentrically in spaced relation, and for rotation one upon the other and each having an opening of such width as to enable the portions of the film passing through said openings to be arranged in arcs of such radius that when rolling and unrolling the bobbins the film does not come into contact with the edges of the openings.

1,469,486. DOUCHE CAN AND INDICATOR THEREFOR. FRANK J. O'ROURKE, Whitestone, N. Y. Filed Apr. 14, 1921. Serial No. 461,348. 2 Claims. (Cl. 128—227.)



1. A douche can provided with a recess formed in one wall thereof a socket member in the lower end of said recess a tubular member wholly within said recess and having one end retained in said socket member and a double nipple within said recess and engaging said socket member and said tubular member, said nipple being provided with an enlarged portion at mid length thereof.

1,469,487. BOTTLE STOPPER. JOHN SCHEDLER, Philadelphia, Pa. Filed Mar. 31, 1921. Serial No. 457,356. 9 Claims. (Cl. 215—53.)



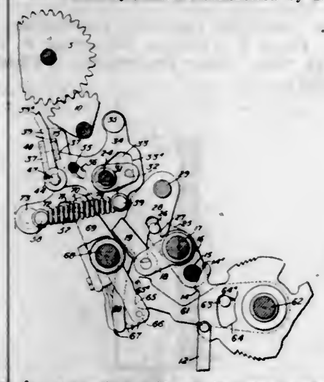
1. A device for the purposes herein set forth comprising in combination with the throat of a bottle, a nipple having a sleeved portion adapted to be inserted in the throat of the bottle, means movable lengthwise in said sleeve and adapted to compress the sleeve, sealing the throat of the bottle, means for moving said sealing means, and means permitting adjustment of said moving means.

1,469,488. CALCULATING MACHINE. CARL A. SIEWECK, New York, N. Y., assignor to Remington Accounting Machine Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 1, 1922. Serial No. 585,736. 26 Claims. (Cl. 235—59.)

1. In a calculating machine, the combination of totalizer mechanism including a series of gear wheels, and an automatically operating aligning bar coacting therewith and moving into engagement with said wheels by a movement of the bar first at one end and then at the other in order to engage said wheels successively.

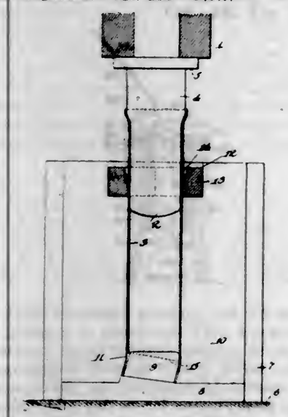
22. In a calculating machine, the combination of a totalizer including a series of gear wheels; an aligning bar engaging said wheels successively; a movable carrier to

which one end of the bar is pivoted so that it may move with and swing relatively to said carrier; a spring which tends to hold the bar in normal relation to its carrier; key controlled actuating mechanism for said totalizer including a universal bar and differential shaft actuated at each depression of a key; means controlled by said uni-



versal bar for actuating said carrier; and means controlled by said differential shaft for holding said bar against movement at its free end while its pivoted end is advanced with the carrier and for then releasing the free end of the bar and allowing the spring to swing it on the carrier.

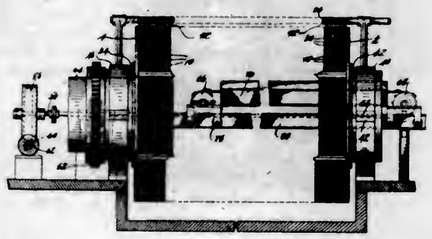
1,469,489. MEANS FOR DISTORTING TUBES. ANTHONY VASSELLI, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Filed June 6, 1919. Serial No. 302,329. 3 Claims. (Cl. 153—80.5.)



1. An apparatus for bending tubes, which comprises a die member adapted to receive the tube, a rigid, integral core carried in the die and at an angle to the major portion of the axis of the die, and means movable in the direction longitudinally of the die, for moving the tube relatively to the die and core to expand the tube and bend one end of the tube to an angle to the axis of the major portion of the tube.

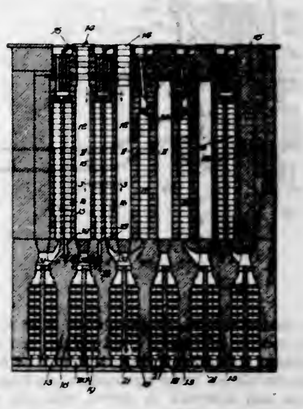
1,469,490. SCREEN. FAY L. WATERMAN, Endicott, N. Y.; Ellen Waterman administratrix of said Fay L. Waterman, deceased. Filed Mar. 25, 1919. Serial No. 284,974. 7 Claims. (Cl. 210—198.)

1. In apparatus of the class described, the combination with a rotating screen having circumferentially arranged series of screening slots, of slot cleaning means located upon the face of said screen opposite to that on which the screened material is collected and comprising resiliently mounted members arranged to spring into and



through said slots at a point in the rotating travel of said slots, said members being retensioned by engagement with the portions of said screen between successive slots of the respective series.

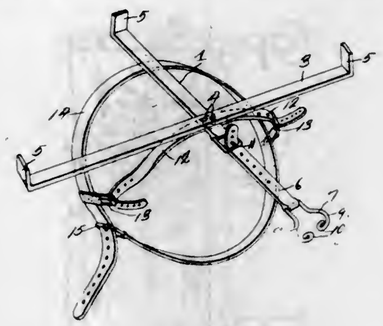
1,469,491. COKING RETORT OVEN. JOSEPH VAN ACKEREN, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 10, 1920. Serial No. 372,999. 21 Claims. (Cl. 202—9.)



21. In a coking retort oven, in combination: a plurality of coking chambers; heating walls intermediate such coking chambers and constituted of series of combustion flues and of a series of channels intermediate such flue-series; cross-regenerators disposed at a lower level than the coking chambers and heating walls, such regenerators being sub-divided into compartments with a compartment of each regenerator directly communicating with combustion flues and another compartment thereof directly communicating with intermediate channels of the heating walls; and means for permitting separate control of the flow in each compartment of the regenerators; substantially as specified.

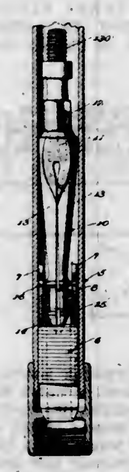
1,469,492. ANIMAL POKE. GEORGE A. BAILEY, Manning, Iowa. Filed Sept. 21, 1922. Serial No. 589,554. 1 Claim. (Cl. 119—142.)

A fence breaching preventer for animals, said preventer comprising rigid crossed members adapted to be disposed on the forehead of an animal, the ends of the crossed members being bent forwardly, a nostril clamp comprising a U-shaped member having its arms extending inwardly towards each other and terminating in eyes, a strap carried by said clamp, said strap passing through a buckle carried by the crossed members, a neck band, a strap se-



cured to the under side of the crossed members, the ends of said last named strap passing through buckles carried by the neck band.

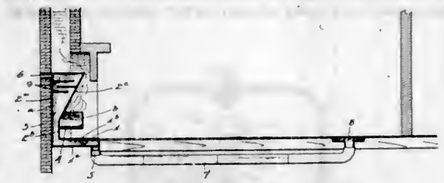
1,469,493. FISHING TOOL. CHARLES H. BROWN, Breckenridge, Tex. Filed Oct. 29, 1921, Serial No. 511,368. Renewed Aug. 16, 1923. 4 Claims. (Cl. 294—99.)



4. A fishing tool for removing broken valve cages comprising a plurality of spring arms having pointed segmental forward end portions cooperating to form an approximately cone-shaped member adapted for movement through the valve seat of a valve cage, said arms being formed with front and rear shoulders defining a valve seat receiving groove, the forward shoulders being adapted to flatly engage the forward side of the valve seat and the rear shoulders being adapted to engage the rear side of the valve seat whereby to limit the forward movement of the arms through the valve seat.

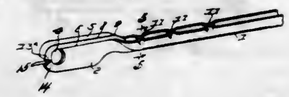
1,469,494. FIREPLACE HEATER. CARL WELLINGTON BUCKLES, Lexington, Ky. Filed May 11, 1922. Serial No. 560,161. 3 Claims. (Cl. 126—121.)

1. The combination with a room having a fireplace and a flue leading therefrom, of a heater fitting within the fireplace without closing the flue, said heater comprising a closed metal casing having a base constituting a hollow hearth, a hollow back-piece extending upwardly from the rear part of the base, the front wall of said back-piece overhanging the base, said base-piece having an opening



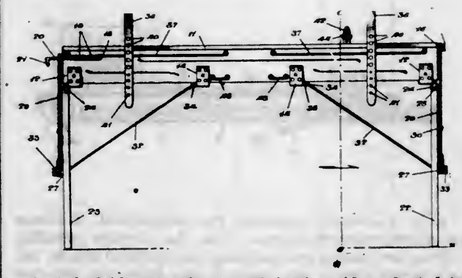
communicating with the room and said back-piece having an opening in its upper part communicating with the atmosphere exterior to the room.

1,469,495. UMBRELLA RIB AND STRETCHER AND ATTACHING MEANS THEREFOR. CAREY E. BUNKER, Oregon, Mo. Filed May 17, 1922. Serial No. 561,647. 3 Claims. (Cl. 135—29.)



3. Umbrella rib attaching means comprising a rib substantially U-shaped in cross section, the end portion of said rib being enlarged and provided with a recess, and a resilient member disposed in the channel of the U-shaped rib and coacting with the recess of the rib to provide an opening.

1,469,496. FOLDING ANIMAL-OPERATING TROUGH. WILLIAM F. CHRISTOPHER, Auburn, Iowa. Filed Jan. 19, 1922. Serial No. 530,393. 17 Claims. (Cl. 119—103.)

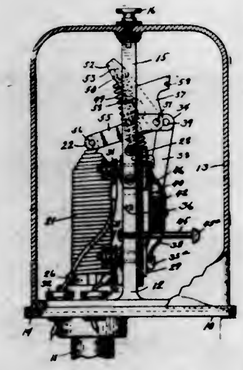


1. A foldable operating trough having sides adapted to fold together, members attachable to said sides of the trough for holding an animal down in the trough, and also adapted to embrace the trough for holding the sides folded, and another member also attachable to said sides to assist in holding the animal down in the trough and attachable to the aforesaid members when they embrace the trough to provide a carrying handle.

1,469,497. FLUID-GOVERNED ELECTRIC SWITCH. ALBERT B. CONANT, Newton Center, and LEONARD A. HOUSE, Boston, Mass. Filed Jan. 3, 1921. Serial No. 434,726. 12 Claims. (Cl. 200—67.)

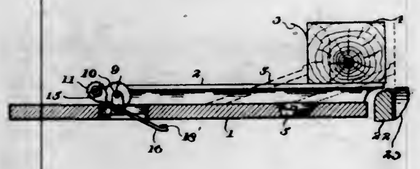
1. An electric switch having the combination of stationary and movable switch members, a fixed support having two spaced and extended arms, said movable switch member including two spaced and connected arms disposed between the arms of said fixed support, means pivotally connecting said arms, and switch operating mechanism including an operating frame having spaced and

connected arms, means pivotally connecting the arms of said frame to the arms of said fixed support to the rear of the pivotal connection of the arms of said movable switch-member, a spring diaposed between all of said arms and connected to said movable switch member and operat-



ing frame, and means to move said operating frame comprising a lever pivotally supported on the pivotal support for the operating frame having inturned ears between which an arm of said operating frame is loosely received.

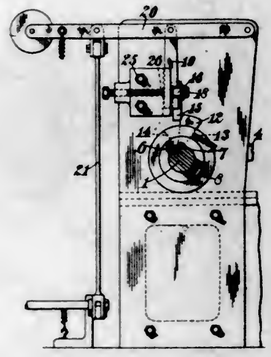
1,469,498. APPARATUS FOR REMOVING TIMBERS FROM SAWMILL CARRIAGES. WILLIAM H. COOPER, Seattle, Wash. Filed July 10, 1922. Serial No. 573,783. 6 Claims. (Cl. 143—124.)



1. In a sawyer's carriage, the combination of means for quickly removing timber from the carriage including a push bar, means for confining one terminal of said bar to a straight-away movement, a cam below the plane of said terminal, a projection depending from said bar adjacent said terminal, and means for translating said terminal toward and beyond said cam, said projection and cam imparting a swinging movement to the free end of said bar.

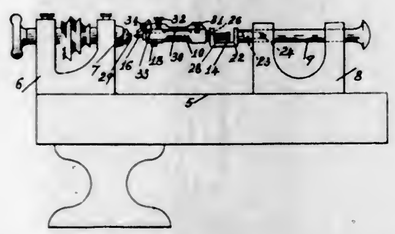
1,469,499. HYDRAULIC PRESS AND THE LIKE. JOHN IANSON CREIGH, Sheffield, England, assignor of one-third to Cammell Laird & Company Limited, and one-third to James McNeal Allan, both of Sheffield, England. Filed July 3, 1922. Serial No. 572,637. 4 Claims. (Cl. 138—16.)

1. In a hydraulic press or the like the combination of a cam shaft, a series of cams thereon, each having an operative connection with a valve of the press and adapted to operate it in the required sequence on the rotation of the shaft, a pulley or gear wheel on the cam shaft, means for rotating it from a source of power, a spring-controlled key movable about its own axis in a keyway of the cam shaft shaped and disposed to engage and disengage a keyway in the hub of the pulley by movement about its own axis, an arm on the key accessible outside the cam



shaft, a stop in the path of the arm, means for moving the stop out of that path, and means for returning the stop substantially as and for the purpose specified.

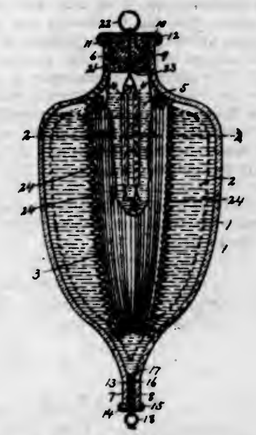
1,469,500. TRUING JEWEL SETTINGS. CHARLES E. DE LONG, Springfield, Ill. Filed Sept. 12, 1921. Serial No. 499,920. 8 Claims. (Cl. 82—35.)



1. The means for truing a jewel-setting with respect to the hole in the jewel mounted in the setting, comprising means for rotating the setting on its axis; a non-rotative slidable element having a pivot adapted to enter the hole in the jewel; and a cutting tool mounted on said non-rotative element and cutting the circumference of the setting while the setting is rotating around the pivot in the hole of the jewel.

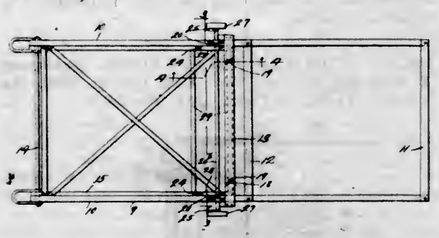
1,469,501. FIRE EXTINGUISHER. EDGAR N. DOLLIN, Syracuse, N. Y. Filed Apr. 21, 1920. Serial No. 375,540. 3 Claims. (Cl. 169—32.)

1. A fire extinguisher comprising a bottle having an inlet in one end and an outlet in its opposite end and containing a fire extinguishing fluid, stoppers for the inlet and outlet, a normally deflated inflatable bag within the bottle having an inlet end secured in the inlet of the bottle and containing a gas-producing element, an hermetically sealed cartridge within the bag and containing another gas-producing element, whereby the bottle with the bag and cartridge therein may be inverted and held in any position without liberating any of the gas-producing elements, and means, operable at will, for disintegrating the cartridge to release its contents in the presence of the other gas-producing element in the bag for generating gas in said bag and thereby expanding the same to expel the fire extinguishing fluid from the bottle when the stopper in the outlet is open, and means for holding portions of the bag out



of contact with the walls of the bottle when the bag is expanded to maintain a passage-way for the liquid from all portions of the bottle to the outlet.

1,469,502. AUTOMATIC LEVELING MACHINE. LEWIS W. EVERSMAN, Julesburg, Colo. Filed May 31, 1922. Serial No. 564,907. 2 Claims. (Cl. 37—143.)



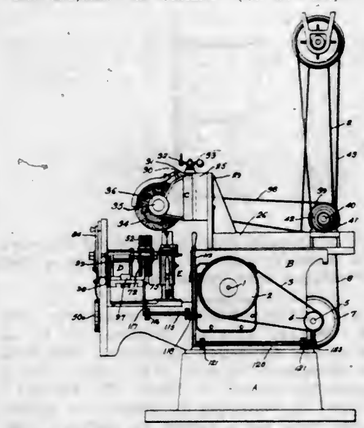
1. A leveling machine comprising a main frame, a scraper frame movably mounted in the main frame, resilient means supporting one end of the movable frame out of scraping position, an arched axle mounted for rocking movement in the main frame and having ground wheels thereon, said axle being arranged to engage and depress the movable frame into position upon movement of the main frame in one direction.

1,469,503. CLOSET-SEAT BUMPER. TILGHMAN J. FLOREY, Washington, N. J., assignor to B. O. T. Mfg. Co., Trenton, N. J., a Corporation of New Jersey. Filed Jan. 11, 1923. Serial No. 612,115. 4 Claims. (Cl. 4—18.)



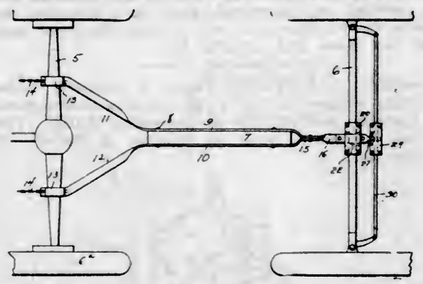
1. A bumper for closet seats comprising a molded rubber body having a substantially level face for contacting with the seat, and a U-shaped metal fastener having its body portion imbedded midway in the depth of the rubber body, the arms of the fastener comprising plain tangs which project from the level face adapted to be driven in and clinched to the seat.

1,469,504. GEAR-GRINDING MACHINE. ORLANDO GARRISON, Dayton, Ohio. Filed Aug. 12, 1921. Serial No. 491,653. 12 Claims. (Cl. 51—52.)



1. In a gear grinding machine, the combination of a grinding wheel, means for supporting work to be ground at right angles to said grinding wheel, a master gear on said supporting means, and means for aligning the work with said master gear, comprising an angularly and longitudinally adjustable rack bar mounted in predetermined relation relative to the master gear and adapted to be moved into relation with said work to align the same with the master gear.

1,469,505. DRAWBAR FOR VEHICLES. WILLIAM D. GIDDINGS, Fort Pierre, S. Dak. Filed Apr. 8, 1922. Serial No. 550,744. 1 Claim. (Cl. 280—33.55.)

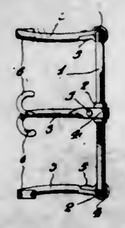


In a draw-bar construction the combination with means for attaching the forward end of the draw-bar to a vehicle, a clamp adapted to be clamped upon the front axle of a vehicle to be towed and comprising a part lying above said axle and a part lying below said axle, filling blocks between the part which lies below the axle and said axle, said filling blocks having arcuate faces and the draw-bar having a portion which passes between the axle and the part of the clamp which lies below the axle and the edges of which portion act against said arcuate faces, an extension upon the rear end of the draw-bar, a clamp adapted to be secured to the steering rod of an automobile to be towed and a part carried by said clamp for engaging the extension of the rear end of the draw-bar.

1,469,506. AUTOMOBILE PULLING DEVICE. CHARLES EVERT GILLAM, Centralia, Mo. Filed Dec. 15, 1921. Serial No. 522,620. 4 Claims. (Cl. 242—95.)

3. The combination with a motor vehicle wheel and the spokes therein, of a pulling device including a body ring, hooks pivotally mounted upon said ring so as to

extend at right angles to the plane thereof or to lie folded in the plane thereof, said hook portions being

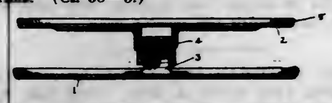


adapted for engagement with the spokes of the wheel whereby the shanks of said hook members form a drum adapted for rotation with the wheel.

1,469,507. EXTRACTION OF POTASSIUM COMPOUNDS. WALTER GLAESER, Brooklyn, N. Y., assignor to Potash Extraction Corporation, New York, N. Y., a Corporation of New York. Filed June 7, 1918. Serial No. 238,767. 1 Claim. (Cl. 23—22.)

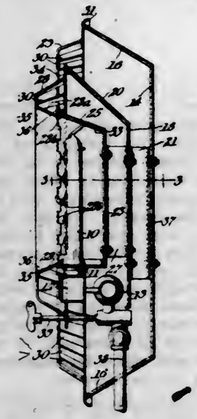
In a method of separating potassium and calcium chlorides, the steps which consist in heating a mixture of such chlorides with tricalcium phosphate in the presence of steam, and then leaching out the water soluble potassium chloride in the residue.

1,469,508. BROILER. ALPHONSE J. GOSSELIN, Rochester, N. Y. Filed Dec. 24, 1921. Serial No. 524,711. 7 Claims. (Cl. 53—5.)



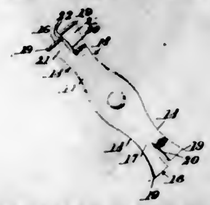
1. In a roaster, the combination of a dripping pan, a roasting pan supported above said dripping pan, means for simultaneously rotating and raising said roasting pan above said dripping pan.

1,469,509. GAS HEATER. JOHN H. GRAYSON, Athens, Ohio, assignor to The J. H. Grayson Manufacturing Company, Athens, Ohio, a Corporation of Ohio. Filed Jan. 22, 1923. Serial No. 614,274. 5 Claims. (Cl. 126—92.)



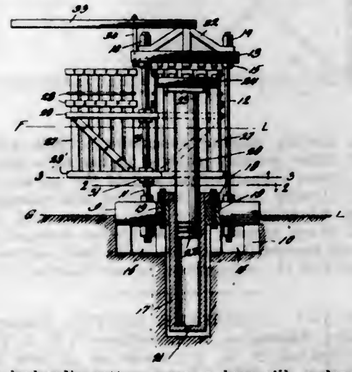
1. A gas heater of the wall heater type, comprising a set of radiant glower elements, a casing having a heat-insulating lining, surrounding the set of glowers, a second casing having a heat-insulating lining surrounding the first casing in spaced relation defining an interspace, a third casing having a heat-insulating lining, surrounding the second casing in spaced relation defining an interspace, a face plate spanning the first and second casing and having a large number of perforations in communication with said first interspace, a second face plate spanning the second and third casing, having a large number of perforations in communication with the second interspace and presenting together with the first face plate the appearance of a single face plate, means for mechanically interconnecting the two face plates so that they are thermally substantially independent of each other, and mechanical connections between the casings offering substantially no resistance to the flow of air through the interspaces.

1,469,510. CUTTER FOR FORAGE AND GRAIN GRINDERS. JOSEPH HOCHENAUER, Pueblo, Colo. Filed Mar. 26, 1923. Serial No. 627,817. 1 Claim. (Cl. 146—122.)



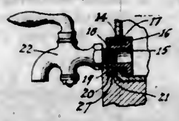
A cutter for feed and grain grinders and the like having oppositely projecting blades, each blade provided with a square end and concave sides forming cutting edges at opposite sides of said end, the outer portion of each blade being bifurcated longitudinally through the end thereof and having its furcations oppositely and laterally deflected and concavely curved along the inner sides thereof, forming cutting edges at the inner sides of the ends of the furcations and permitting the latter to readily clear themselves in action.

1,469,511. HYDRAULIC COTTON PRESS. FERDINAND P. HUEBNER, Cameron, Tex. Filed Dec. 31, 1920. Serial No. 434,263. 1 Claim. (Cl. 100—28.)



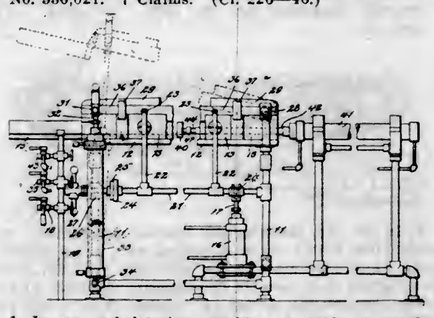
In a hydraulic cotton press, a base sill, a depending centrally disposed cylinder carried by the sill, an upstanding post carried by the base sill at one side of the plunger and arranged at the longitudinal axis of the sill, a pair of spaced upstanding guide rods arranged on the other side of the plunger and carried by the sill, a head block secured to the post and guide rods, a slide block arranged between the guide rods, post, head block and sill, a depending centrally disposed plunger secured to the head block and reciprocably mounted in the cylinder, concaved presser elements secured to the slide block and head block and arranged in spaced relation thereon, and a rotatable cotton container mounted upon the post for movement between the sill and head blocks for reciprocably receiving the slide block.

1,469,512. CONTAINER. HARLEY E. HUTCHISON, Hotchkiss, Colo. Filed Oct. 30, 1922. Serial No. 597,894. 3 Claims. (Cl. 221—23.)



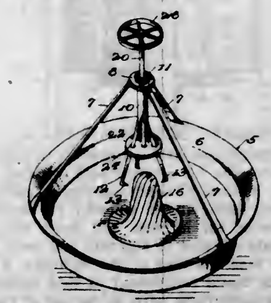
1. The combination with a container of the type described having formed through the wall thereof an opening adapted for the reception of an outlet fitting, and means including a hand operated clamping element for securing the outlet fitting in position, of a base for said receptacle coacting with the clamping element to prevent rotation thereof when the container is in position upon the base.

1,469,513. UPHOLSTERING MACHINE. HOMER H. INGERSOLL, St. Louis, Mo. Filed Jan. 18, 1922. Serial No. 530,021. 7 Claims. (Cl. 226—46.)



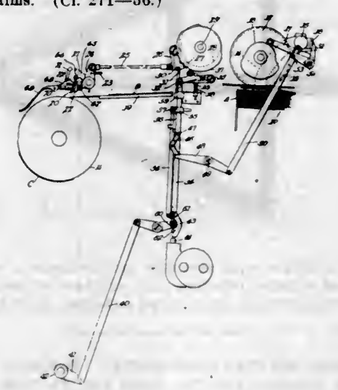
1. In an upholstering machine, a table, a vertical cushion sizing element, means for pivotally mounting one end of said element above the table, a valve controlled fluid actuated motor for raising and lowering the other end of the vertical sizing element, a pair of lateral cushion sizing elements, a valve controlled fluid actuated motor and means for causing the motor to synchronously move the lateral sizing elements, adjustable means for limiting the movements of the lateral sizing elements in sizing directions, a ram, a valve controlled fluid actuated motor, for the ram, means for locking certain of the sizing elements during the action of the ram and extensions for said lateral and vertical sizing elements over which a cushion casing may be telescopically fitted and through which the built up and sized cushion filler is forced to be received by the casing.

1,469,514. LEMON SQUEEZER. PETER JUERGENSEN, Des Moines, Iowa. Filed Nov. 8, 1921. Serial No. 513,641. 3 Claims. (Cl. 146—3.)



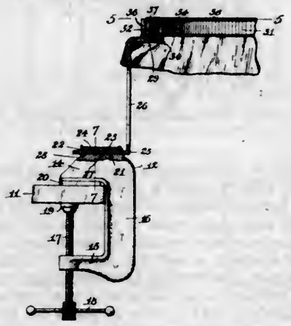
3. A lemon squeezer comprising a plate having a plurality of upwardly extending rods, a rotatable member associated with said rods and having fruit gripping means, and a disk associated with said fruit gripping means and having an operating stem provided with a hand wheel.

1,469,515. PRINTING PRESS. WILLIAM M. KELLY, Jersey City, N. J. Filed Aug. 6, 1921. Serial No. 490,291. 34 Claims. (Cl. 271—56.)



1. The combination of sheet forwarding means, an impression cylinder, means for raising and lowering said cylinder, means controlling the operation of said mechanism by the presence of a sheet in position to be taken by said cylinder and means governed by said controlling means to avoid alternate forwarding operations of said forwarding means.

1,469,516. HOLDING DEVICE FOR EMBROIDERY WORK. JOSEPH A. KIRCHGESSNER, Buffalo, N. Y. Filed Nov. 17, 1921. Serial No. 515,812. 6 Claims. (Cl. 45—24.)

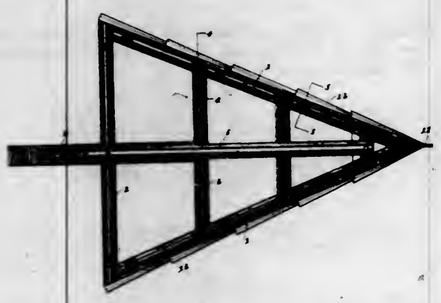


1. A holding device for embroidery work, comprising a self-conforming expansible and contractible loop-holder adapted to hold a pair of embroidery hoops having embroidery material clamped therebetween, and means for supporting said hoop-holder.

1,469,517. BRUSH GRUBBER AND LEVELER. EDWARD COMLY LEAK, Reno, Nev. Filed Jan. 19, 1922. Serial No. 530,389. 5 Claims. (Cl. 55—60.)

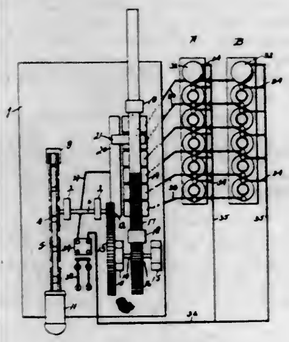
1. A device of the character specified, comprising an A-frame having series of blades at the under surface thereof and extending beyond the sides of the frame, each blade having its cutting edge lying in a plane extending obliquely to the plane of the proximate side of the frame and being spaced from the latter and a guide and runner at the rear and center of the frame, and extending below

the frame to form a fin or vane for engaging within the ground when the frame is drawn over the ground, said



frame having a super-structure provided with a vertically disposed angular deflecting plate arranged at the front of the frame with the apex of the deflecting plate foremost.

1,469,518. WATER-LEVEL SIGNAL. EDWARD J. LEIGHTHAM, Conshohocken, Pa. Filed Aug. 11, 1920. Serial No. 402,932. 1 Claim. (Cl. 200—84.)



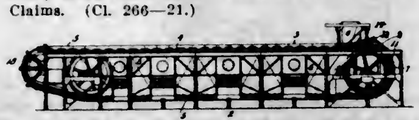
In a device of the character stated, a base board having an opening therethrough, a chain passing through said opening, a sprocket wheel on each side of said base board over which said chain runs, a float on one end of said chain, a counterbalance weight on the opposite end thereof, a set of contacts, a rack bar associated with said contacts, a contact shoe carried by the rack bar for coaction with the aforementioned contacts, a rack pinion meshing with the rack bar, and a train of gears for transmitting motion from one of the sprocket wheels to the rack pinion as the chain is moved due to the rise and fall of the float.

1,469,519. HOSE. JOHN T. LISTER, Wellington, Ohio. Filed June 28, 1920. Serial No. 392,450. 3 Claims. (Cl. 137—90.)



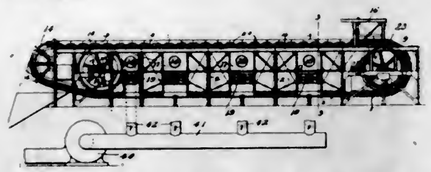
1. A hose having a body portion composed of a plurality of superposed layers of woven fabric and unwoven cord in the form of strips having their longitudinal edges extending lengthwise of the base.

1,469,520. CLEANING DEVICE FOR ORE-SINTERING MACHINES. RICHARD L. LLOYD, New York, N. Y., assignor to Dwight & Lloyd Sintering Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 25, 1919, Serial No. 333,353. Renewed Feb. 23, 1923. 7 Claims. (Cl. 266—21.)



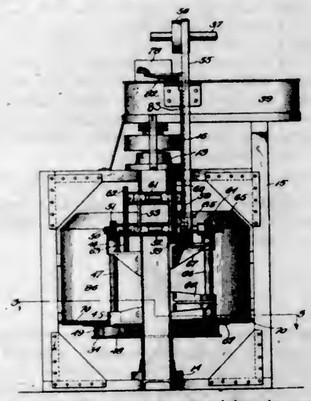
1. In an ore sintering or similar machine, the combination of the movable apertured ore support and automatically movable cleaners adapted to enter the apertures in the said support after the ore is discharged.

1,469,521. SINTER-MACHINE DRIVE MECHANISM. RICHARD L. LLOYD, New York, N. Y., assignor to Dwight & Lloyd Sintering Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 28, 1919, Serial No. 333,973. Renewed Feb. 23, 1923. 6 Claims. (Cl. 266—21.)



1. In an ore sintering or treating mechanism, the combination with a series of pallets, of a guide therefor along which they move in one direction, a second guide along which they move in the opposite direction, and a power transmitting device for moving them along the said second guide and actuated by the pallets while they are moving along the first guide.

1,469,522. CENTRIFUGAL SEPARATING APPARATUS. JAMES MACKAYE, Cambridge, Mass. Filed Sept. 27, 1921. Serial No. 503,595. 20 Claims. (Cl. 233—20.)



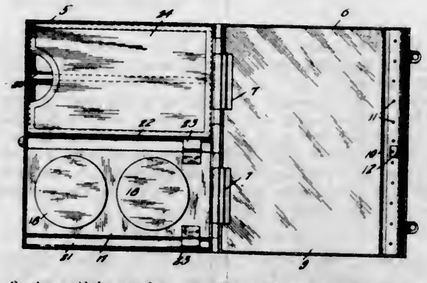
1. A centrifugal separator comprising, in combination, a cylinder, mechanism for rotating said cylinder, means for conducting a mixture of solid and liquid materials to be separated into said cylinder whereby the action of centrifugal force on the mixture will cause the solid constituent of said mixture to separate and form a layer of mud on the inner surface of the cylinder, a discharge outlet for the liquid constituent of said mixture, a plurality of mud discharging ports at the end of the cylinder, and means rotatable relatively to said cylinder for intermittently opening and closing said ports.

1,469,523. REVERSIBLE CUSHION. VIRGINIA MARY MCGARVEY, Brunswick, Ga. Filed Mar. 18, 1922. Serial No. 544,947. 4 Claims. (Cl. 5—339.)



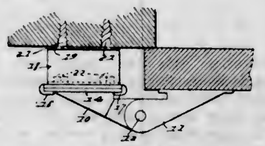
1. A cushion including a stationary cover attached to one face of the cushion and extending over the edges thereof and onto the opposite face of the cushion, an additional cover member attached to the face of the cushion opposite the first cover and connected with the extended edges of the first cover, said second cover having its free edges projecting beyond the connected portion to provide a skirt, and a flexible drawstring attached to the free edges of the second cover.

1,469,524. VANITY CASE. EMMETT AMMI MCARTHUR, Rodeo, Calif. Filed Dec. 12, 1922. Serial No. 606,411. 4 Claims. (Cl. 132—83.)



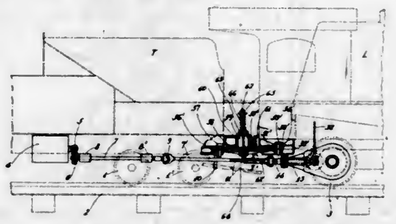
3. An article carrier comprising hinged sections, a partition in one of the sections dividing the sections into lateral compartments, a hinged plate in each compartment, one of said plates having openings to accommodate boxes, the opposite plate having inwardly extended flanges, a tray having lateral flanges cooperating with the inwardly extended flanges, to support the tray and permit the tray to slide with respect to its supporting plate, and a clasp for holding the sections together.

1,469,525. HINGE. OTTO NADOLNEY, Nanticoke, Pa. Filed May 9, 1922. Serial No. 559,526. 1 Claim. (Cl. 16—181.)



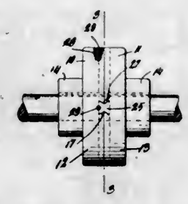
In a door mounting, brackets having apertured flanges, the said brackets being of a height to compensate for the difference in thickness of doors, one of said apertured flanges of each bracket being adapted to be secured to a door frame, a plate provided with apertures by which the said plate may be secured to a door frame or to the said brackets, fastenings extending through the said apertures for anchoring the plate on a door frame in operative relation to a door, the said plate having its edges converging downwardly and inturned to form guides, and a hinge having two leaves, one of which may be secured to a door and the other of which tapers to the configuration of the space between the guides of the plate, the said last mentioned leaf being of a thickness to fit in the guides formed by the plate and its flanges, as and for the purpose described.

1,469,526. LOCOMOTIVE BOOSTER. LONNIE EDWARD OSBORNE and NATHAN M. LOWER, Bellevue, Pa. Filed Aug. 25, 1922. Serial No. 584,380. 9 Claims. (Cl. 105—109.)



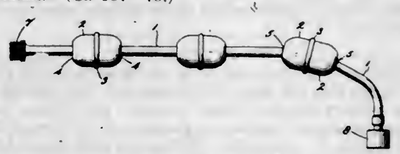
1. The combination of a locomotive and trailer with its tender, an auxiliary motor located upon the tender, said motor being flexibly coupled to the trailer whereby to permit relative movement between the tender and locomotive.

1,469,527. SHAFT COUPLING. CHARLES W. OUDERKIRK, Mount Pleasant, Mich. Filed Nov. 27, 1920. Serial No. 426,776. 6 Claims. (Cl. 287—130.)



4. A shaft coupling comprising a pair of flanges having their contacting faces provided with intersecting corresponding grooves, and keys to enter the coinciding grooves, one key preventing displacement of another.

1,469,528. METAL HOSE. JOHN OWENS, Washington, D. C. Filed May 7, 1921. Serial No. 467,609. 3 Claims. (Cl. 137—75.)

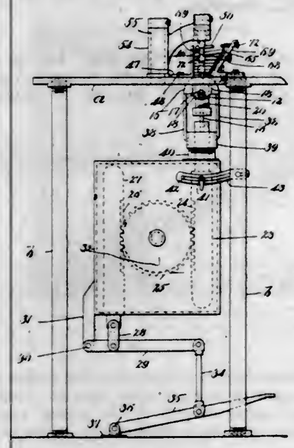


1. A metal hose comprising a plurality of metal hose sections, the end sections having respectively means for attachment to a grease gun and a grease cup or the like, a coupling between the sections composed of a casing semi-spherical at its end and hollow interfitting semi-spherical parts attached to the hose sections and a spring having one end in a hollow part for holding the semi-spherical parts together.

1,469,529. NAILING MACHINE. JOHN C. PASHBY, Lynn, Mass. Filed July 18, 1921. Serial No. 485,526. 7 Claims. (Cl. 1—33.)

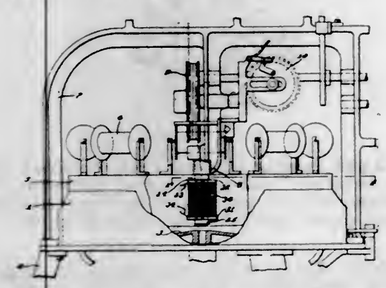
1. In a nailing machine of the character described, in combination, a bed provided with a curved recess in its

under surface extended to the top surface thereof to form therein a slot, a throat having a curved upper surface conforming to the curvature of said recess, means



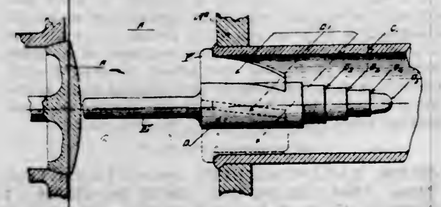
for pivotally mounting said throat below said bed, to permit it to be moved into an inclined position, a nail driver movable in said throat, and mechanism movable with said throat for actuating said driver.

1,469,530. BRAIDING DIE. ANKER PETERSEN, Winthrop, Mass. Filed Aug. 16, 1922. Serial No. 582,165. 16 Claims. (Cl. 96—18.)



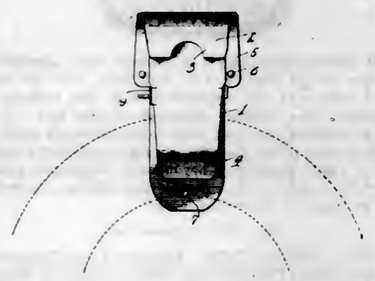
14. A braiding die having a restricted passage for the braid, and a heating coil surrounding said die for heating it.

1,469,531. DEVICE FOR THE PROMOTING AND CONTROLLING OF THE CIRCULATION OF WATER IN WATER-TUBE BOILERS. HENRY COKE POWEL, London, England, assignor to Thomas Andrew Lewis, New York, N. Y. Filed Mar. 10, 1922. Serial No. 542,743. 6 Claims. (Cl. 137—112.)



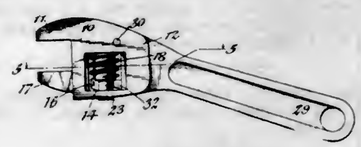
6. A circulation plug comprising integral members including a body portion, a series of stepped necks at the inner end and a longitudinal extension from the outer end of said body, fins radiating from said plug and lugs projecting from said fins.

1,469,532. HAT HOLDER. SAMUEL F. PRIEM, Shawano, Wis. Filed Sept. 27, 1922. Serial No. 590,930. 2 Claims. (Cl. 24—253.)



1. A hat holder including a fixed member, a fulcrum member mounted thereon, spring means disposed between the members so as to hold the lower end of the fulcrum member in engagement normally with the fixed member, and an overhanging extension with a notched terminal provided on the top of the fixed member so as to overhang the upper end of the fulcrum member for the purpose of preventing objects from contacting therewith and the notch allowing ready access to the fulcrum member for operation thereof.

1,469,533. WRENCH. HENRY D. RAHLING, Buffalo, N. Y., assignor to Cygnet Mfg. Co., Inc., Buffalo, N. Y., a Corporation of New York. Filed Jan. 22, 1921. Serial No. 439,085. 8 Claims. (Cl. 81—165.)

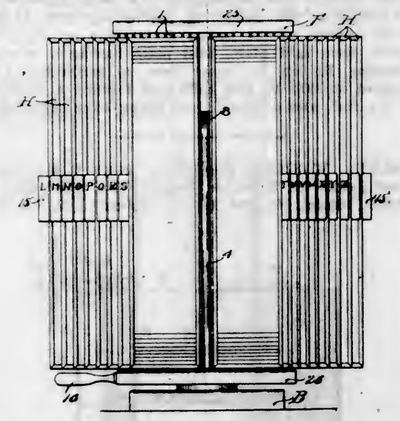


1. A wrench comprising a head having a fixed jaw, a shank slidable transversely on said head and provided with a gear rack and a movable jaw adapted to cooperate with said fixed jaw, a rotary adjusting worm engaging its thread with said rack, a stationary guide pin which is mounted on said head and on which said worm is capable of sliding and turning, and a spring for yieldingly moving the worm, shank and movable jaw in a direction in which the movable jaw approaches the fixed jaw.

1,469,534. INDEX DEVICE. JAMES H. RAND, North Tonawanda, N. Y. Filed Feb. 13, 1922. Serial No. 535,996. 12 Claims. (Cl. 40—72.)

1. An index device comprising an upright frame, means on the frame for supporting a plurality of index holders

to swing about approximately vertical axes spaced along one side of the frame, and means for tilting the axes



longitudinally of said side so that the holders automatically swing in the same direction into overlapping relationship by gravity.

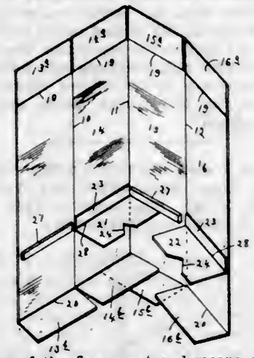
1,469,535. TOLL-COLLECTING MECHANISM. GEORGE A. RICHARDS, Jr., Providence, R. I. Filed Jan. 25, 1922. Serial No. 531,570. 10 Claims. (Cl. 133—2.)



1. In a device of the character set forth, a reciprocatory bolt, a spring for moving the bolt in one direction, an operating slide for moving the bolt in the opposite direction, stacks for toll excess coins, slides for ejecting coins from said stacks, and coin controlled toll coin receptacles carried by the operating slide for actuating the coin ejecting slides.

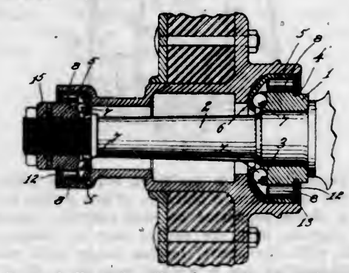
1,469,536. PACKING BOX FOR POTTED PLANTS. CLAYTON E. RISLEY, Hamilton, N. Y. Filed July 14, 1921. Serial No. 484,816. 6 Claims. (Cl. 206—46.)

1. In a packing box for potted plants the combination of a main body portion of relatively stiff material adapted to be bent along three longitudinal lines and form the four sides of the box, with short slits into the opposite ends of said body portion along the line of said bends and adapted to be bent along the bottom of said slits to provide integral end portions at the top and bottom of each side, two partition flaps each having a portion permanently secured flatwise to the inner surface of opposite sides and having a free portion adapted to lie flat against its side or to be extended at right angles to the side and



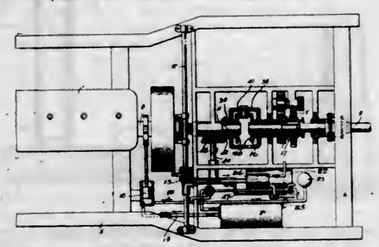
across the top of the flower pot and means on the other sides to keep said flaps extended and against the top of the flower pot.

1,469,537. BALL THRUST AND ROLLER BEARING. LOUIS C. RITTMEYER and FREDERICK B. LOVEJOY, Cincinnati, Ohio. Filed May 6, 1920. Serial No. 379,391. 5 Claims. (Cl. 64—37.)



1. In a ball and roller bearing, an outer raceway shaped to fit a socket in the article to be supported, said raceway having an inwardly curved inner portion and an inner bearing member grooved on its inner face with balls seated therein running on said inwardly curved portion of the raceway to take up end thrust and straight rollers interposed between the inner member and the raceway to receive lateral strains with separate, individual and independent spacing elements separating the rollers to maintain them in proper relation to each other.

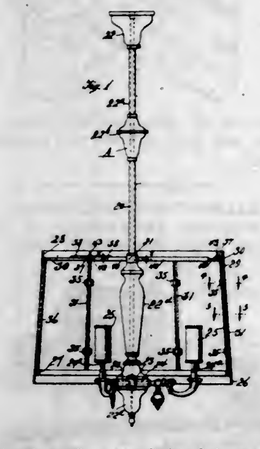
1,469,538. TRANSMISSION UNIT. PHILIP THEODORE ROBIN, New York, N. Y. Filed June 10, 1921. Serial No. 476,459. 16 Claims. (Cl. 192—54.)



13. A transmission unit including a driving shaft, a driven shaft, a clutch including a plurality of parts associated with said shafts, means associated with said driv-

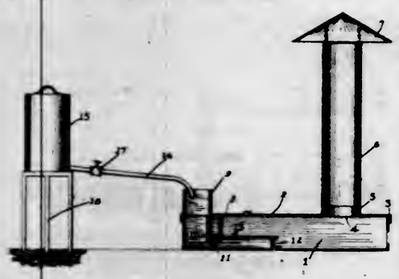
ing shaft for deriving a force from the rotation thereof proportionate to the rotative speed of the same, torque responsive means associated with one of said shafts for deriving a force from the torque transmitted by one of said shafts proportionate to said torque, and means associated with the first named means and torque responsive means for automatically operating said clutch parts to a degree proportionate to the relation between the forces derived from the first named means and the torque responsive means.

1,469,539. GAS FIXTURE WITH DETACHABLE SHADE. JACOB SILBERHARTZ and NATHAN ABZUG, New York, N. Y. Filed June 1, 1921. Serial No. 474,307. 1 Claim. (Cl. 240—128.)



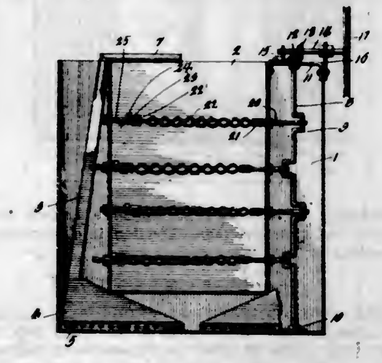
The combination of a gas light fixture, a main gas conduit for the fixture, a plurality of gas outlets for the fixture, a sleeve supported on said conduit, detachable tubular supports with one end of each in threaded engagement with the sleeve, locking hooks each with a horizontal member and a vertical member, each of said horizontal members slidably supported in one of the tubular supports, a shade encircling the fixture and a plurality of eyes fastened to the shade, each eye adapted to lock with a vertical member of said locking hooks and thereby detachably supporting the shade.

1,469,540. ORCHARD HEATER. FRANK E. SIMONS, Los Angeles, Calif. Filed June 17, 1922. Serial No. 569,027. 1 Claim. (Cl. 158—91.)



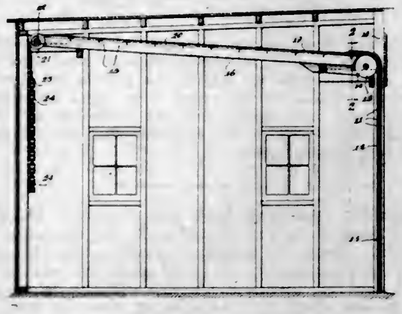
A heater of the class described comprising a metal casing having a removable top extending over a portion of the casing and a complementary cover section detachably mounted on the remainder of the casing and having an upstanding chamber constituting a down draft, said chamber extending transversely across the casing, a plate depending into the casing at the front of the chamber and terminating at a point spaced from the bottom of the casing, an upstanding baffle secured to the bottom of the casing at a point extending inwardly from said plate, said plate having a laterally extending lip on its inner face, a perforated plate mounted on said lip and baffle and forming a vaporizer for the fuel, and a smoke stack rising from said casing.

1,469,541. WASHING MACHINE. JOHN D. STANDEFER and JAMES H. STIDHAM, Dooley, Va. Filed Mar. 1, 1922. Serial No. 540,200. 2 Claims. (Cl. 68—20.)



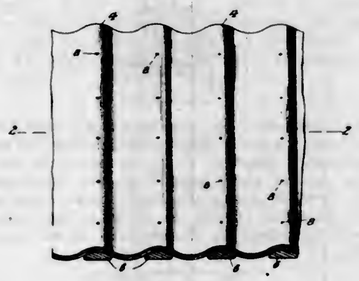
2. In combination, a receptacle provided with an outer compartment and an inner compartment, a tube disposed in the outer compartment terminating at one end adjacent the bottom of the outer compartment and at its other end adjcent the top of the inner compartment, a spraying spout leading from the top of the tube over the inner compartment, a clothes supporting member disposed within the inner compartment, and means for moving the clothes supporting member to and fro in the inner compartment whereby when liquid is heated in the outer compartment it may be delivered through the tube and sprayed over clothing supported by the clothes supporting member as it moves all in the manner and for the purpose specified.

1,469,542. DOOR. JOHN P. STORMS, Enid, Okla. Filed Aug. 5, 1921. Serial No. 490,042. 6 Claims. (Cl. 20—20.)



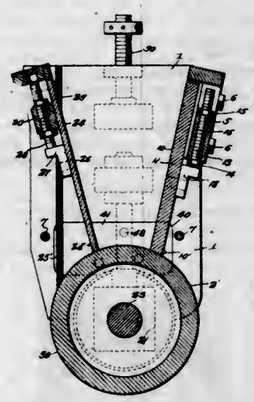
3. In a flexible door, slats having guiding means, flexible elements connecting the said slats, a pair of intermediately positioned rails extending inwardly and upwardly from the door, means for guiding the door to the said rails, a cable connected to the door, a pulley over which the cable may travel, a chain-like counter weight connected at one end to the said cable, and means for anchoring the opposite end of the counter weight in fixed position above the floor of the building.

1,469,543. SHINGLE. GEORGE I. STRACHAN and J LEE STRACHAN, Muir, Mich. Filed Sept. 23, 1921. Serial No. 502,703. 1 Claim. (Cl. 108—7.)



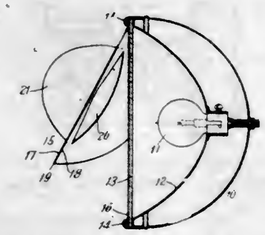
A shingle comprising a flexible sheet of material provided with spaced longitudinal corrugations therein, reinforcing strips conforming to the configuration of said corrugations and arranged therein, the bottom faces of said reinforcing strips adapted to extend flush with the lower faces of the portions of said shingle formed between said corrugations therein, and fastening means extending through said corrugations and through said reinforcing strips and adapted to be driven into roof boards.

1,469,544. INKING MECHANISM FOR PLATE-PRINTING MACHINES. LINDIAN J. SWAIM, Washington, D. C. Filed Oct. 19, 1922. Serial No. 595,629. 9 Claims. (Cl. 101—364.)



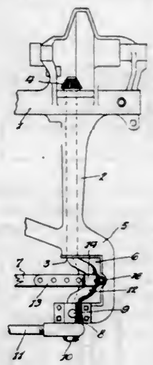
1. Inking mechanism for plate printing machines comprising a distributing roll, and a fountain cooperating therewith; said fountain including end walls engaging the ends and peripheral edges of the roll and provided with substantially longitudinal slots, cross bars connecting the end walls, front and back walls engaging the slots in the end walls, and means for adjustably supporting the front and back walls from the cross bars to hold said front and back walls in cooperative relation with the surface of the roll.

1,469,545. SHIELD FOR AUTOMOBILE HEADLIGHTS. GEORGE F. TAFT, Boston, Mass. Filed Jan. 31, 1921. Serial No. 441,118. 2 Claims. (Cl. 246—48.4.)



1. A shield for headlights embodying therein a rim, a visor attached to said rim and adapted to be located in front of the lens of said headlight to limit the height and volume of the rays of light projected forwardly by said headlight, said visor having a surface adapted to reflect rays of light downwardly and also being provided with openings extending therethrough and a pair of vanes located adjacent to the edges of said openings and projecting forwardly and outwardly from said visor and having surfaces adapted to project the rays of light which pass through said openings laterally from said headlight in both an upward and downward direction.

1,469,546. MOWER. FRANCIS S. THOMPSON, Stanley, Ky. Filed Mar. 16, 1922. Serial No. 544,213. 1 Claim. (Cl. 287—93.)

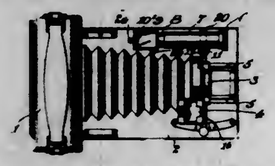


Means for connecting the crank portion of a shaft to a pitman having a solid end, said means consisting of straps secured to opposite sides of the pitman and extending beyond one end thereof, abutting projections on the opposing faces of said straps adapted to straddle said crank portion, said straps having concave bearing recesses for said crank portion, a split bushing in said recesses, ears on said straps at the extreme ends thereof, beyond said abutting projections and a bolt engaging in said ears, adapted to tighten the straps over the bearings around said crank portion.

1,469,547. FOCUSING ATTACHMENT FOR FOLDING CAMERAS. FRANK TORKA and PAUL H. C. REDDERS, Port Townsend, Wash., assignors to Port Townsend Camera Co., Port Townsend, Wash., a Corporation of Washington. Filed Nov. 13, 1920. Serial No. 423,850. 3 Claims. (Cl. 95—44.)

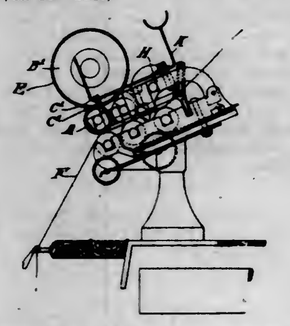
3. In a collapsible camera in combination with an adjustable camera lens holder, an adjustable focusing lens, a part fixed to the camera, a collapsible extension to

said fixed part carrying an image receiving screen, means for reflecting an image from the focusing lens



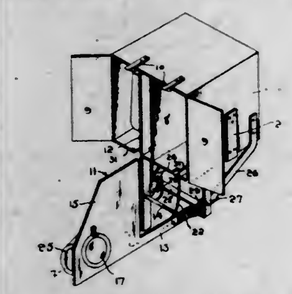
onto the receiving screen and means for concurrently and proportionately adjusting the focusing lens and camera lens.

1,469,548. DRAWING FRAME FOR SPINNING MACHINERY. HEINRICH TSCHUDY, Ennenda, Switzerland. Filed Nov. 3, 1921. Serial No. 512,589. 2 Claims. (Cl. 19—135.)



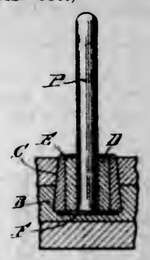
1. In a drawing frame, the combination with a front pressure roller, of a top-clearer-roller resting upon the said roller and of sufficient weight to supersede the usual weights and appertaining devices.

1,469,549. RAILWAY CLASSIFICATION SIGNAL. FRED F. VANDEWATER, Hornell, N. Y. Filed May 21, 1923. Serial No. 640,468. 4 Claims. (Cl. 116—30.)



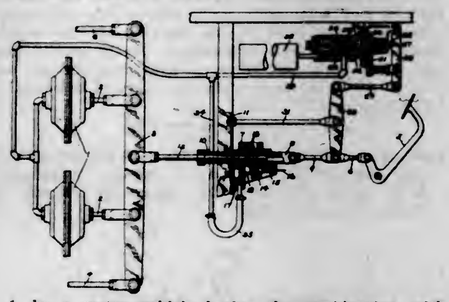
4. The combination with a locomotive, of a housing arranged at the front portion of the same, a pivot pin associated with said housing and extending longitudinally of the locomotive, rigid flag staffs pivotally mounted on said pivot pin and including means for preventing the staffs from moving endwise on said pivot pin, flags rigidly connected to said staffs, lamps carried by said flags, a stop bar extending longitudinally of the locomotive and adapted to be engaged by said flag staffs for holding the latter in substantially horizontal positions, said housing having an open side and said flags being movable in vertical planes transversely of the locomotive into and out of the open side of said housing.

1,469,550. PIN BOARD. FREDERICK C. WASHBURN, New Bedford, Mass. Filed Jan. 8, 1923. Serial No. 611,209. 7 Claims. (Cl. 242—130.)



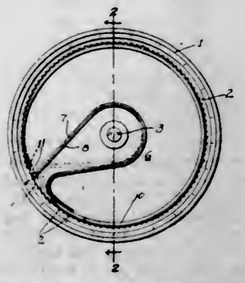
1. In a pin board, the combination of a base provided with a pocket, a pin, a flange secured to one end thereof, and adapted to lodgment at the bottom of the pocket, a wedging member and a locking member, cooperating to form an inwardly flaring filler in the pocket-space, confining the pin flange against the bottom of the pocket and compressively displacing the material of the base surrounding the pocket.

1,469,551. AUTOMOTIVE BRAKE MECHANISM. JOHN R. BARTHOLOMEW, Berkeley, Calif., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 4, 1922. Serial No. 592,239. 6 Claims. (Cl. 188—152.)



1. In a motor vehicle brake, the combination with mechanically operated means for controlling the brakes and manually operated means for operating said mechanical means, of a mechanism controlled by fluid under pressure for operatively connecting said manually operated means with said mechanically operated means.

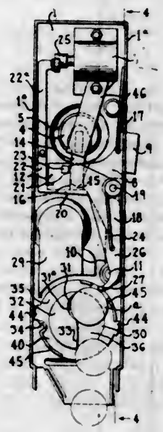
1,469,552. REGISTERING THERMOSTAT. RICHARD S. BURDETTE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 2, 1921. Serial No. 449,202. 9 Claims. (Cl. 235—91.)



1. The combination with an air bag, of an indicating device mounted therein and adapted to indicate the total

number of times the bag is used for vulcanizing purposes, said device comprising an indicator, a thermostat adapted to actuate said indicator, and means adapted to retain said indicator in its actuated position for each cycle of temperature change.

1,469,553. COIN-CONTROLLED LOCK. RALEIGH B. BUZZARD, Washington, D. C., and WORTHY CHANNING BUCKNAM, Jersey City, N. J., assignors, by mesne assignments, to Davis Automatic Equipment Corporation, New York, N. Y., a Corporation of New York. Filed July 17, 1920. Serial No. 397,118. 17 Claims. (Cl. 194—65.)



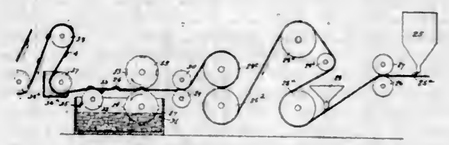
1. A coin-controlled locker lock comprising the combination of a bolt, a spring for actuating the bolt, a detent pivoted intermediate its ends for holding the bolt in retracted position against the action of the spring, a knob operated freely-turning disk coin-mover for releasing said detent, and key-operated mechanism for retracting the bolt, said key operated mechanism being of a character to lock the key against withdrawal except when the bolt is projected.

1,469,554. DRAWING SHEET AND METHOD OF MAKING SAME. HAVY Q. R. CROWDER, Chicago, Ill. Filed Apr. 13, 1922. Serial No. 552,320. 5 Claims. (Cl. 41—38.)



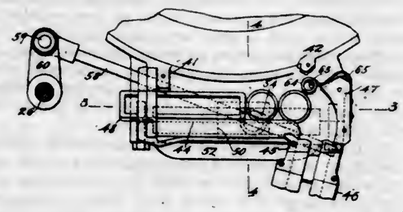
1. A drawing card comprising a plurality of sheets secured together in stacked relation, all of said sheets except the topmost sheet having artistic back ground matter thereon and openings in certain sheets exposing portions of the back ground matter on said sheets, the exposed back ground matter and picture matter on the topmost sheet cooperating to form a complete picture.

1,469,555. APPARATUS FOR MAKING ROOFING PRODUCT. HARRY A. CUMFER, Chicago, Ill., assignor, by mesne assignments, of one-half to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Original application filed Aug. 9, 1919, Serial No. 316,374. Divided and this application filed July 22, 1921. Serial No. 486,701. 7 Claims. (Cl. 91—16.)



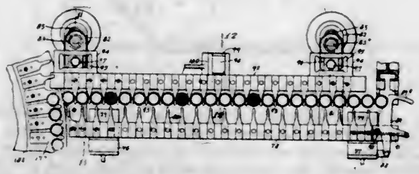
1. In an apparatus for making embossed roofing material, the combination with means for feeding waterproof roofing sheet, of embossing rolls for impressing portions of the sheet into embossed areas, and severing mechanism for cutting the sheet into suitable lengths.

1,469,556. MACHINE FOR FEEDING CROWNS AND THE LIKE. GEORGE GOEBEL, Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Original application filed Aug. 26, 1919, Serial No. 319,932. Divided and this application filed Dec. 29, 1920. Serial No. 433,965. 19 Claims. (Cl. 226—88.1.)



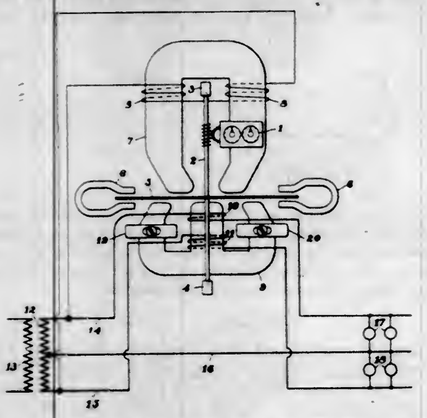
1. In apparatus for feeding crowns and the like, and in combination a hopper having a delivery mouth of a capacity to deliver a plurality of crowns simultaneously, means associated with the hopper for causing the crowns delivered to said mouth to be faced all one way, a magazine for receiving the delivered crowns, a gravity-feed chute leading from the magazine, and means for causing the crowns in the magazine to move into said chute.

1,469,557. CROWN FEEDING AND ASSEMBLING APPARATUS. GEORGE GOEBEL, Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed Aug. 26, 1919. Serial No. 319,932. 30 Claims. (Cl. 113—80.)



1. In combination, crown supporting and guiding means, means including a crown-engaging element for feeding a crown along said supporting means with a step by step movement, and other means also including a crown-engaging element for limiting and equalizing the feeding movements of the crown.

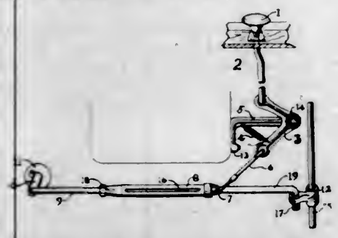
1,469,558. INDUCTION WATTMETER. JESSE HARRIS, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a Corporation of Illinois. Filed Jan. 26, 1920. Serial No. 354,274. 9 Claims. (Cl. 171—264.)



1. An induction watt meter including a closed conductor disc armature; a pressure coil in inductive relation to and upon one side of the armature and having a U-shaped core; two current coils in inductive relation to and upon the other side of the armature, these current coils being provided with an E-shaped core upon the middle leg whereof they are located at different distances from the armature; and two magnetic deflectors, one at each outer leg of the E-shaped core, each deflector serving to deflect some of the flux from the armature that is due to the current coil further from the armature.

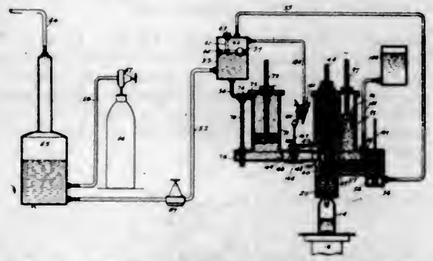
9. An induction watt meter including a closed conductor armature; a pressure winding and two co-axial current windings in inductive relation to the armature and spaced apart longitudinally of their common axis and therefore being at different distances from the armature; and a magnetic deflector for deflecting some of the flux due to the current winding that is further from the meter armature, said deflector serving to equalize the torques due to said current windings, per unit of energy.

1,469,559. FOOT ACCELERATOR. JOHN C. HEINEKE, Springfield, Ill. Filed Jan. 18, 1923. Serial No. 613,438. 3 Claims. (Cl. 74—81.)



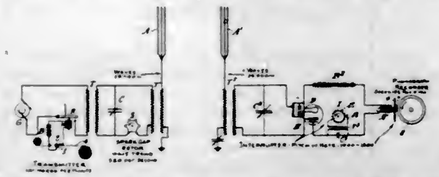
1. A foot accelerator co-operating with a hand control for a motor carburetor and comprising in combination a bracket supported bell-crank lever, a horizontal hand controlled throttle rod connected with a hand lever, a telescopically mounted longitudinally slotted tubular sleeve mounted on said hand control rod, means connecting said bell-crank lever with said sleeve, means for receiving and conveying foot pressure to said bell-crank lever, a tensile spring for automatically holding said bell-crank lever into normally closed position, and a rod connecting said sleeve with said carburetor as and for the purpose set forth.

1,469,560. PACKAGING APPARATUS. GEORGE JOHN HUNTLEY, Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City, a Corporation of Maryland. Filed Sept. 4, 1918. Serial No. 252,538. 13 Claims. (Cl. 226—77.)



1. In a packaging apparatus, and in combination, a carbonator, a reducing valve connected therewith, a reservoir connected with the reducer valve, a filling head having a nozzle, a liquid connection between the reservoir and the nozzle, a fluid connection for connecting the upper part of the reservoir with the bottle to be filled, means for sealing the bottle in the filling head, the reservoir and said connections constituting a pressure line of which the bottle is made a part, and means for opening both of said connections after the bottle has been sealed in the head, closing them before the sealing means is released, and closing one of them upon a predetermined drop in the pressure line, as by the breaking of a bottle.

1,469,561. SIGNAL RECORDING AND TRANSCRIBING METHOD AND APPARATUS. MILLER REESE HUTCHISON, West Orange, N. J. Filed Jan. 21, 1920, Serial No. 352,921. Renewed Aug. 7, 1923. 1 Claim. (Cl. 250—8.)



In the art of signalling by electromagnetic waves, the method which consists in radiating trains of waves broken by and in accordance with the dots and dashes of the signal to be sent, said dots and dashes representing the signal being transmitted at a rate several times the rate at which they can be transcribed by an operator at the receiving station; intercepting said waves at a receiving station and interrupting the received wave trains representing the dots and dashes to produce shorter signal elements corresponding to a note of predetermined pitch at least three times as high as required for phonographic reproduction; utilizing the thus broken wave trains to produce fluctuations in a battery current corresponding to long and short notes of a frequency equal to that of said breaks; utilizing said fluctuations to cut undulations in a phonograph record; and reproducing the long and short notes representing the dots and dashes, at speeds approximately one-third the recording speed.

1,469,562. COMBINATION VANITY ARTICLE. NATHAN KASDAN, New York, and DANIEL POLLACK, Brooklyn, N. Y., assignors to Majestic Machine & Tool Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 18, 1923. Serial No. 613,362. 6 Claims. (Cl. 132—83.)

1. A combination vanity structure of the character described comprising a shallow box having a displaceable cover and affording a container for toilet articles, said cover having as a part thereof a housing extending transversely of the box adapted to removably receive a lip-stick holder, the button for the slide of said holder being exposed for use in withdrawing the holder from the housing, said housing being at the top of said cover and having a

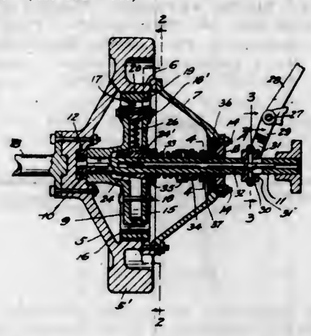


closed rear end and an open front end to admit and permit the withdrawal of the holder, and said button on the holder being adapted to engage the housing at its open end.

1,469,563. PROCESS OF MAKING EMULSIFIED COMPOSITIONS. LESTER KIRSCHBRAUN, Evanston, Ill. Filed Sept. 4, 1918. Serial No. 252,605. 3 Claims. (Cl. 134—1.)

1. A process of making an emulsified matrix consisting in adding to a waterproof adhesive binder an aqueous solution containing an emulsifying agent, and thoroughly mixing the solution and the binder to form an emulsion, then taking this emulsion and adding it to an aqueous paste containing colloidal particles and thoroughly mixing the paste and the primary emulsion.

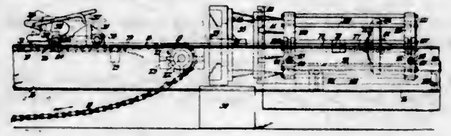
1,469,564. FRICTION CLUTCH. GABRIEL MAROTTA, Seattle, Wash., assignor of one-half to John Marotta, Seattle, Wash. Filed Jan. 25, 1921. Serial No. 439,747. 1 Claim. (Cl. 192—76.)



In combination with a driving shaft, a fly wheel attached thereto, an annular flange formed integrally with said fly wheel, and a shell detachably secured to the said flange, of a driven shaft journaled in said wheel and shell, a wheel securely keyed to the said driven shaft, a broken flange formed integrally with said wheel at its extreme outer edge, a detachable face plate secured against said broken annular flange, a series of spacing blocks securely held between said wheel and face plate, an axial bore through substantially the full length of the said driven shaft, a rod slidably mounted in the bore of said driven shaft, a cone slidably mounted on said driven shaft and keyed to said rod, a series of dove-tail-shaped ribs formed integrally with said cone and extending longitudinally thereon, a series of arcuate shoes positioned for frictionally engaging the flange formed with said fly wheel, slotted stems formed integrally with said arcuate shoes and mounted to slide on said spacing blocks, the inner ends of the shoe stems being operatively connected with the dove-tail-shaped ribs formed on the said cone member and means mounted on the said driven shaft and keyed to said rod for sliding said rod and cone lengthwise of said driven shaft to move said arcuate shoes into and out of frictional engagement with the flange on said fly wheel, for operatively connecting the driving shaft with said driven shaft.

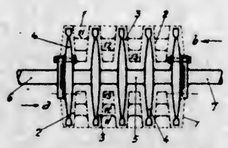
1,469,565. SHELL-FORMING MECHANISM. VICTOR MAUCK, Norristown, Pa. Filed May 18, 1921. Serial No. 470,673. 21 Claims. (Cl. 153—80.5.)

1. In shell forming mechanism, the combination with means arranged to temporarily hold a shell blank in stationary position, including two semicylindrical hingedly connected cradle frames, arranged to embrace said blank, and an annular abutment comprising a circumferential series of radially movable abutment blocks, at one end of said cradle, arranged to abut one end of said blank and prevent its axial movement; of an anchor ring, encircling said blank at the other end of said cradle; means arranged to uniformly expand said blank, throughout its length, in said cradle, against said abutment, including a circular die, having its front end smaller in diameter than said blank, and having a toric zone larger in diameter than said blank; means arranged to temporarily support said die in coaxial relation with said blank, including an axial reciprocatory plunger, and means arranged to detachably connect said die with said plunger; means arranged to draw said die through said blank, including a carriage connected with said plunger, a cross head on said plunger and a pair of tension rods extending from said cross head to said carriage; a hook pivoted on said carriage; an endless chain arranged to be intermittently engaged by said



hook; means arranged to progress said chain; means arranged to temporarily anchor one end of said blank to said anchor ring by flaring that end of said blank over said ring, including a rotary spinning head, carrying a circumferential series of toricially grooved rollers, each mounted to rotate on an axis radial to the axis of said head; means arranged to support said head in coaxial relation with said blank, including a rotary shaft and a nonrotary plunger, alined in coaxial relation with said blank; means arranged to reciprocate both said plunger and shaft, by fluid pressure, including a cylinder in which said nonrotary plunger extends; and means arranged to rotate said shaft; including a worm gear through which said shaft is slidable and to which it is keyed, a worm engaged with said gear, and means arranged to rotate said worm; whereby, said blank may be contemporaneously expanded by said die, spun into toric flanged form at one end, by said rollers, and tensilely stressed in the direction of the axial movement of said die in said blank.

1,469,566. METHOD OF MANUFACTURING TURBINE ROTORS. JOSEPH WEISHÄUPL, Zurich, Switzerland, assignor to the Firm Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie., Zurich, Switzerland. Filed Dec. 11, 1922. Serial No. 606,152. 3 Claims. (Cl. 29—156.4.)

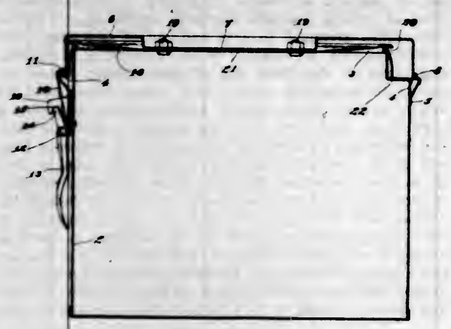


1. The process of manufacturing rotors for turbines, the rotor wheels or discs of which are integral with the apertaining part of the shaft, which consists in treating blocks forged to a determined outer configuration so as to form recesses in said block corresponding to intermediate spaces to be provided between the rotor discs, and subjecting the material between the discs of the rotor to a homogenizing action during said treatment.

1,469,567. CONTAINER. JASPER WHITING, Boston, and PHILIP WADSWORTH, Milton, Mass. Filed May 19, 1921. Serial No. 470,858. 7 Claims. (Cl. 220—29.)

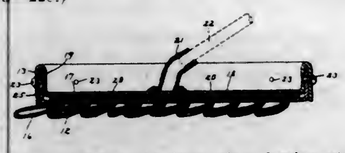
1. A container having an opening therein, an outer cover for said opening, an inner cover attached to and abutting said outer cover within the marginal portion of

the inner cover but leaving said marginal portion spaced therefrom, one of said covers being resilient, and means



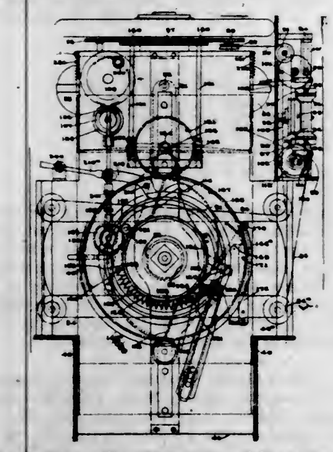
for holding said outer cover in its closed position with said inner cover closing said opening.

1,469,568. MOP. CELIA M. WILLIAMS, Hammon, Okla. Filed Nov. 20, 1922. Serial No. 602,034. 3 Claims. (Cl. 15—228.)



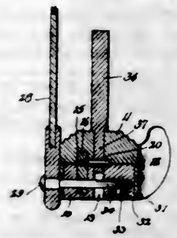
1. A mop comprising a bottom plate having strip-receiving apertures and a marginal curb; strips of flexible absorbent mopping material, threaded through said apertures and depending in loops from the plate; loop-connecting neck portions of said strips lying on the upper surface of the plate, a top plate adapted to rest on said neck portions, and spaced from the bottom plate, the top plate having a marginal curb formed to be inserted in the curb of the bottom plate, relatively small apertures adapted to slowly feed liquid deposited on the top plate to the space between the plates, and a handle whereby the mop may be manipulated; and means connecting said curbs, to confine the plates in operative relation to each other.

1,469,569. CAMERA MORE PARTICULARLY FOR USE IN AERIAL PHOTOGRAPHY. HERBERT D. WOOTTON, London, England. Filed Dec. 29, 1922. Serial No. 609,610. 11 Claims. (Cl. 88—19.1.)



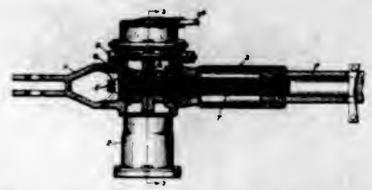
1. An aerial or like camera comprising a rotary plate carrier, a removable and replaceable change-box associated with said carrier, a cover at each end of said change-box, and means for automatically removing and replacing said covers within the camera.

1,469,570. THEFT SIGNAL. LUDWIG R. ZEPKA, Cleveland, Ohio. Filed Dec. 15, 1921. Serial No. 522,519. 11 Claims. (Cl. 40—15.)



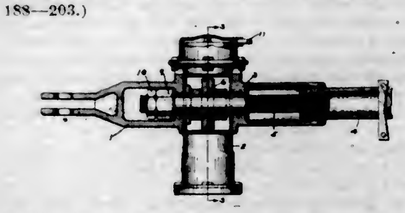
1. A theft signal including a base, attaching means therefor, a signal plate associated with the base, and means locking said attaching means against displacement and provided with means locking the plate upon the base.

1,469,571. SLACK ADJUSTER. ROBERT E. ADREON, St. Louis, Mo., and CHRISTOPHER P. CASS, Berkeley, Calif., assignors to The American Brake Company, St. Louis, Mo., a Corporation of Missouri. Filed July 19, 1922. Serial No. 575,935. 2 Claims. (Cl. 188—203.)



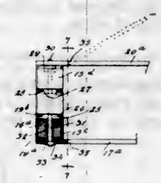
2. The combination with a pair of tie rod members, of a take-up cylinder fixed to one member, an adjusting screw having screw-threaded engagement with the other member, a ratchet wheel rotatably mounted in said cylinder and fixedly secured to said screw, and means for rotating said ratchet wheel and thereby said screw to cause a longitudinal movement of said screw engaged member.

1,469,572. SLACK ADJUSTER. ROBERT E. ADREON, St. Louis, Mo., and CHRISTOPHER P. CASS, Berkeley, Calif., assignors to The American Brake Company, St. Louis, Mo., a Corporation of Missouri. Filed July 19, 1922. Serial No. 575,936. 2 Claims. (Cl. 188—203.)



2. In a slack adjuster, the combination with a tie rod member, a take-up cylinder fixed thereto, an adjusting screw, and a tie rod member having screw-threaded engagement with said screw, of a nut associated with said screw and engaging one tie rod member for transmitting tension stresses from the other tie rod member through the adjusting screw directly to the first mentioned tie rod member.

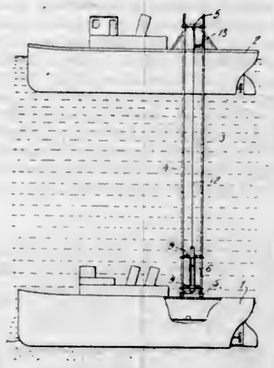
1,469,573. LOOSE-LEAF BINDER. EDWARD ADERLE, West Nutley, N. J. Substitute for application Serial No. 129,746, filed Oct. 26, 1916. This application filed Apr. 14, 1922. Serial No. 552,590. 13 Claims. (Cl. 129—10.)



6. In a loose-leaf binder, a protecting cover, a pair of retaining members located upon said cover in spaced relation to each other and adapted to co-operate with binding devices to removably secure leaves in said binder, a second independent protecting cover, and means whereby said second cover is detachably connected with each of said retaining members.

12. In a loose-leaf binder, a plurality of units each adapted to accommodate binding devices whereby leaves are removably secured in said binder, said units being located one above the other and slidably connected with each other, and means for locking said units against relative sliding movement.

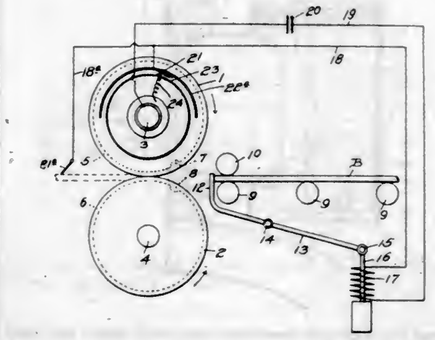
1,469,574. SALVAGING METHOD AND APPARATUS. ALEXANDER ALLAN, Middletown, R. I. Filed Feb. 7, 1921. Serial No. 443,191. 11 Claims. (Cl. 61—69.)



1. In apparatus for salvaging cargo from sunken ships, a buoyant tool guide extending from adjacent the cargo space of the sunken ship to the salvaging vessel and serving to guide successively the salvaging tools required to reach and lift the cargo.

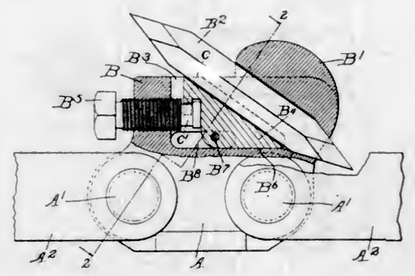
1,469,575. FEED-CONTROL DEVICE FOR DIE ROLLS. GEORGE BAEHR, Coraopolis, Pa. Filed Nov. 24, 1920. Serial No. 426,158. 5 Claims. (Cl. 80—24.)

5. The combination with a pair of die rolls, of a feed controlling device comprising a feeding device adapted to urge hot stock towards the rolls, a detent extending across the path of the feed member, a solenoid adapted to move the detent out of obstructing position, an electrical circuit controlling said solenoid, a brush in said circuit adapted to contact with a member adjustably positioned on one of the rolls at each revolution thereof and thereby to close the circuit through the solenoid to remove the detent from obstructing position, and another brush adapted to contact with the hot stock



after it passes through the rolls and thereby to complete a circuit through the solenoid and so holding the detent out of obstructing position as long as the second brush is in contact with stock passing through the rolls.

1,469,576. CUTTING LINK FOR COAL-CUTTING CHAINS. CHARLES N. BARTON, Indianapolis, Ind. Filed Dec. 15, 1919. Serial No. 344,841. 14 Claims. (Cl. 262—33.)

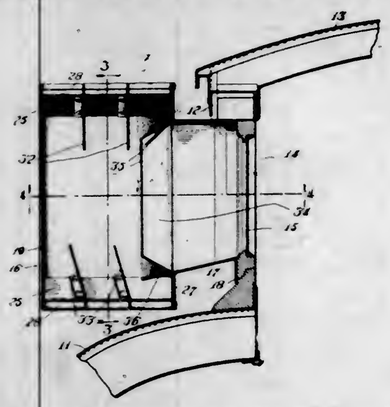


8. A bit holding link for coal cutting chains and the like comprising a link member adapted to be a part of a cutting chain, said member being provided with a socket aperture adapted to receive a cutting bit and means for securing said bit in position in the socket, comprising a movable socket wall and positive means for forcing said socket wall directly against said bit and for withdrawing said socket wall from contact with said bit.

1,469,577. VENTILATOR. GEORGE W. BENDER, Chicago, Ill., assignor to Mudge & Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 4, 1920. Serial No. 408,219. 15 Claims. (Cl. 98—22.)

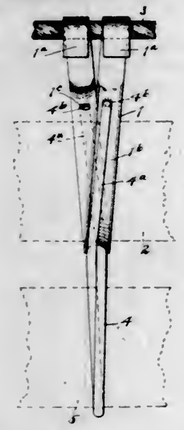
1. A ventilator for cars or the like consisting of a hollow box-like structure comprising a base having an opening therein adapted to communicate with the interior of the car, and an air ramming face disposed transversely to the direction of movement of the car, said box like structure having exhaust passages adjacent

said air ramming face, deflectors in said exhaust passages disposed transversely to the current of air de-



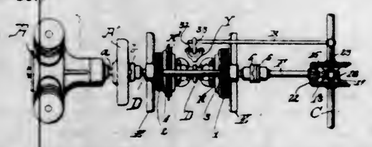
flected by said air ramming face, and means on said deflectors for preventing the entry of the air current into the ventilator.

1,469,578. CABLE HANGER. WARREN BOLEY, Lodi, Ohio. Filed July 3, 1922. Serial No. 572,463. 9 Claims. (Cl. 248—33.)



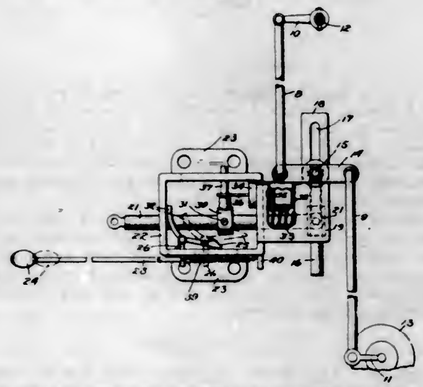
1. A cable hanger, comprising a cable hanger loop, and a second hanger loop having similarly shaped spring loop arms surrounding and detachably connected therewith.

1,469,579. POWER-TRANSMISSION DEVICE. EDWARD ROY BORDEN, Chicago, Ill., assignor to Mudge & Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 4, 1922. Serial No. 579,569. 3 Claims. (Cl. 74—59.)



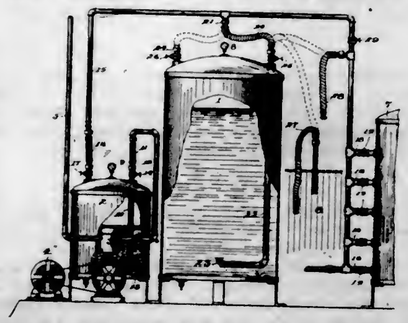
1. In a power transmission device comprising a motor, a driving shaft actuated thereby, a driven shaft, a reversing unit for the driven shaft and high and low speed units intermediate the driving shaft and the reversing unit, a lever for shifting the reversing unit and for shifting from one speed unit to the other, and operative connections between the lever and the reversing unit and also between the lever and each of the speed units, said connections including a rocker shaft operatively connected at one end to the reversing unit and at its other end to said lever.

1,469,580. AUTOMOBILE GEAR-SHIFT CONTROL. JAMES C. BOYLE, Flint, Mich. Filed June 2, 1921. Serial No. 474,325. 5 Claims. (Cl. 74—107.)



1. In an automotive vehicle, a propelling engine, a carbureter for supplying fuel to said engine, a carrying mechanism for the vehicle, a speed gear shifting mechanism, a throttling mechanism for said carbureter, means connecting said throttling mechanism to said speed gear shifting mechanism whereby to regulate said carbureter for varying the speed of said engine correspondingly with the operative movements of the speed gear shifting mechanism, means for automatically readjusting said throttling mechanism and carbureter to normally predetermined position of operation coincidently with the completion of an operative movement of said gear shifting mechanism, and means operatively connected to said last mentioned means for retarding the action thereof during the readjustment of said throttling mechanism.

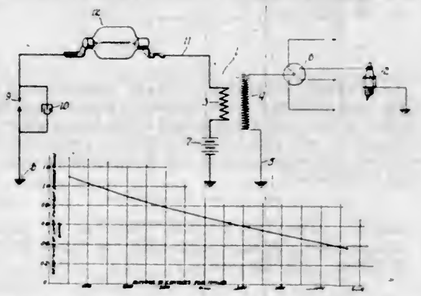
1,469,581. METHOD OF SUPERSATURATING LIQUIDS. BENJAMIN BRAZELLE, Los Angeles, Calif., assignor to Aquazone Laboratories, Inc., Los Angeles, Calif., a Corporation of California. Filed May 20, 1920. Serial No. 383,025. 9 Claims. (Cl. 167—7.)



2. The process of producing supersaturated solutions of oxygen gas in water which comprises maintaining a body of water to be treated under a substantially constant pressure in excess of four times atmospheric at a determined optimum temperature, forcing a volume of atmospheric air through said body of water while subject to said pressure for a sufficient time to secure substantially maximum oxygen absorption, reducing the pressure at the end of the treating period by substantially a fifth of that maintained during treatment, and withdrawing and sealing the solution in vessels while subject to reduced pressure.

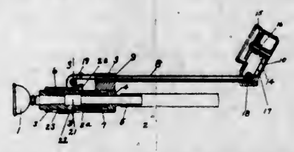
7. As a new product, a solution of oxygen in water, free of deleterious matter and rendered stable, in which the oxygen is held retentively under normal atmospheric conditions in absorbed condition in amounts in excess of 35 cubic centimeters per liter.

1,469,582. IGNITION SYSTEM. EDWARD G. BURESCH, Chicago, Ill., assignor to Resistolite Appliance Co., Chicago, Ill., a Corporation of Illinois. Filed Dec. 30, 1921. Serial No. 525,851. 5 Claims. (Cl. 123—148.)



1. In an ignition system for gas engines, a spark coil having a core, a primary winding and a secondary winding adapted to provide a disruptive discharge at the engine plugs, a primary circuit including said primary winding, an interrupter and a controlling resistance, said resistance having a high positive temperature co-efficient and comprising a filament enclosed in a protective glass bulb, said coil, core and resistance being proportioned to permit the core to become saturated to the required degree for each contact of the interrupter at high engine speed and to cause the protective resistance to rise to a high temperature and thereby limit the current flow during the time of contact of the interrupter at lower speed.

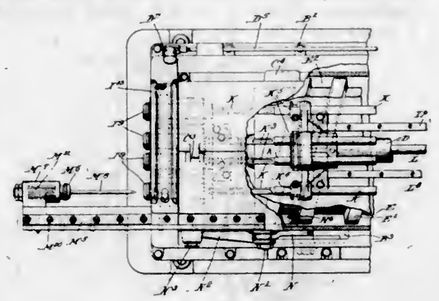
1,469,583. LIP-PRESSURE-CORRECTING DEVICE FOR WIND INSTRUMENTS. CHARLES R. CAMPBELL, Erie, Pa. Filed Dec. 2, 1921. Serial No. 519,355. 6 Claims. (Cl. 265—22.)



1. In a lip pressure correcting device for wind instruments, the combination of a spring resisted mouth-piece; and means offset from the mouth-piece actuated by lip pressure on the mouth-piece for indicating to the player of the instrument said lip pressure.

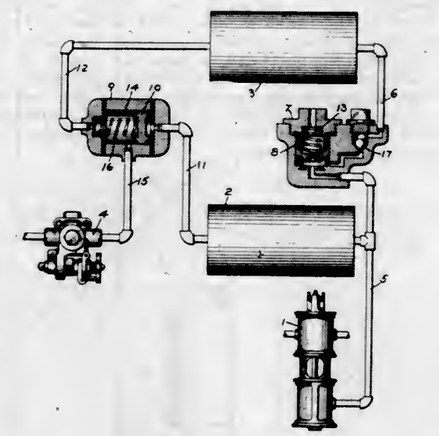
1,469,584. TUBE-FORMING MACHINE. FRANCIS M. CASE, Cleveland, Ohio, assignor to Federal Porcelain Company, Carey, Ohio, a Corporation of Ohio. Filed Dec. 30, 1921. Serial No. 525,905. 72 Claims. (Cl. 25—3.)

1. In a tube heading machine a plurality of horizontal tube receiving moulds, a rotating element in which such moulds are mounted, a horizontal tube receiving die adapted to engage such moulds and means for rotating



said element about a horizontal axis to present said moulds successively to said die.

1,469,585. FLUID-PRESSURE-BRAKE DEVICE. JOSEPH C. MCCUNE, Orange, N. J., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 4, 1921. Serial No. 505,300. 8 Claims. (Cl. 303—84.)

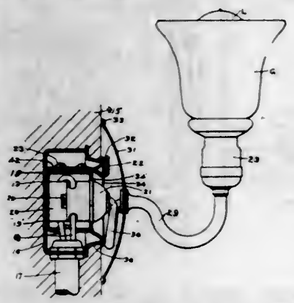


1. The combination with two main reservoirs normally charged with fluid under pressure, of a valve device for controlling communication from said reservoirs through which fluid under pressure is supplied for controlling the brakes and operated upon a reduction in pressure in one reservoir for closing the supply communication from said reservoir and for establishing the supply communication from the other reservoir.

1,469,586. PRODUCTION OF HYDRAZANISOL. RALPH A. NELSON, Buffalo, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed June 5, 1920. Serial No. 386,714. 3 Claims. (Cl. 260—69.)

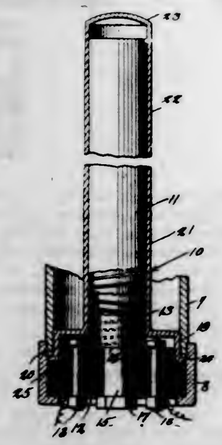
1. The method of producing and isolating hydrazanisol, which comprises subjecting o-nitranisol to reduction with zinc and caustic alkali in the presence of alcohol at a boiling temperature, slowly cooling the reduction mass while shaking or agitating and thereby permitting the growth of hydrazanisol crystals, admixing the resulting product with water and separating the crystals from the zinc residue by a sieving operation.

1,469,587. FIXTURE-HOOK FITTING. WILLIAM J. NEWTON, Bridgeport, Conn., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn., a Corporation of Connecticut. Filed July 26, 1921. Serial No. 487,584. 4 Claims. (Cl. 240—85.)



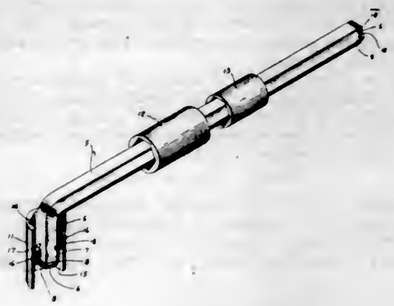
1. In a device of the character described an outlet box adapted to be mounted in a wall, said box being open at the front thereof, an electric receptacle, means for securing the receptacle in said box, a plate for the open side of the box and provided with an opening in alignment with the receptacle, means to removably secure said plate in position, a support secured to the box independently of the receptacle and projecting outwardly therefrom and curved to form a hook, an electric fixture including a canopy adapted to conceal the outlet box when mounted in a wall, a cross bar secured to the canopy at its rear side and adapted to seat within the hook to support the fixture against the wall and the canopy over the box and an extension plug connected with the fixture by flexible conductors and adapted for insertion in the receptacle.

1,469,588. ELECTRICAL HEATING DEVICE. PAUL E. ONWILER, Billings, Mont. Filed Aug. 28, 1922. Serial No. 584,851. 2 Claims. (Cl. 219—38.)



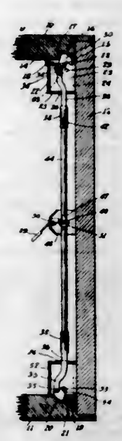
1. A device of the class described comprising a reservoir; an inlet for the reservoir and an outlet therefrom; a heating element including a resistance coil; a stem extended from the coil; an enlarged head surrounding the stem and provided with a circumferential shoulder; means for securing the head to the coil; a housing for the coil said housing having a flange adapted to engage the shoulder and means for securing the coil within the housing.

1,469,589. SOCKET WRENCH. CHARLES G. PALMER, Newark, N. J. Filed Dec. 15, 1921. Serial No. 522,506. 6 Claims. (Cl. 81—121.)



1. A wrench comprising an angled handle bar of uniform cross section, a reversible socket head having unlike sockets in each end, a web in said socket intermediate said end sockets, said web having an opening engageable with said bar, and means at each end of said bar for retaining said head thereon.

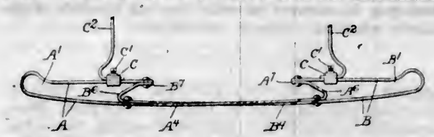
1,469,590. GRAVITY LATCH. CHARLES G. PALMER, Newark, N. J. Filed Sept. 30, 1922. Serial No. 591,437. 9 Claims. (Cl. 292—4.8.)



1. The combination with a door and its frame, of a bar mounted on the door, a hand lever operatively engaging said bar, housings secured on the door, keepers fixed in the frame thereof, latches pivoted in said housings, said latches being engageable in said keepers, and direct operative connections between said bar and said latches.

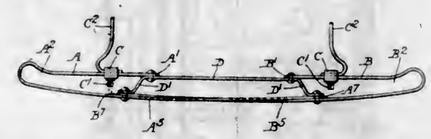
1,469,591. BUMPER. LEWIS P. HALLADAY, Decatur, Ill. Filed Dec. 1, 1922. Serial No. 604,168. 12 Claims. (Cl. 293—55.)

3. A bumper formed of two similar spring elements each of them having adjacent one end a loop formed by inwardly curving its end, there being a vertical impact portion between said loops and formed in part from each of said elements, the end of each of said elements farthest



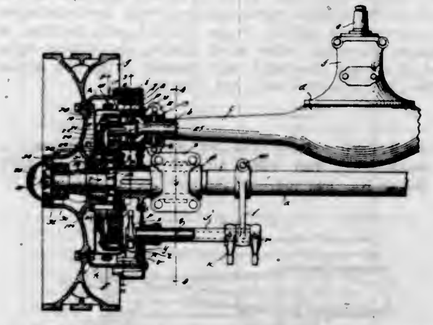
from its loop being rearwardly and inwardly bent and terminating in line with and being fastened to the inner end of the loop forming portion of the other member.

1,469,592. BUMPER. LEWIS P. HALLADAY, Decatur, Ill. Filed Dec. 1, 1922. Serial No. 604,170. 5 Claims. (Cl. 293—55.)



4. A bumper bar including two identically shaped spring members associated to form a pair of horizontally disposed loops joined by a single vertically disposed loop, there being a rearward reinforcing member in line with the rear faces of said horizontally disposed loops and being joined at its ends to the vertically disposed loop and joined intermediate its ends to the rear of the spring members.

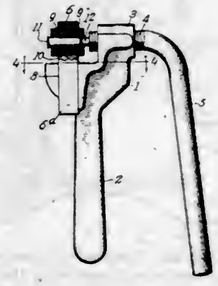
1,469,593. REAR AXLE AND WHEEL. SEZO HATASHITA, Detroit, Mich. Filed Feb. 4, 1921. Serial No. 442,442. 8 Claims. (Cl. 74—7.)



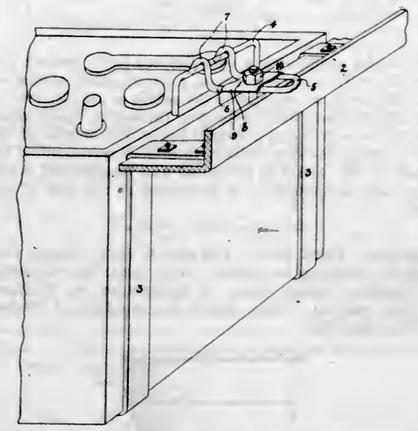
1. In an assembly for the purpose specified, the combination of a dead axle, a traction wheel secured to rotate thereon, a supporting member secured on said dead axle and having a laterally-extending arm having an opening therethrough, a jack shaft housing provided with an enlarged end, a two part clamp for removably clamping said jack shaft housing to the said arm in alignment with the opening through said arm, said two parts of the clamp being detachably but rigidly connected to the arm and clamping over the enlarged end of the jack shaft housing and a jack shaft within the jack shaft housing and passing through and supported in the opening in said arm and in driving connection with the traction wheel.

1,469,594. RIVET REMOVER. WILLIAM S. HARLEY, Milwaukee, Wis., assignor to Harley-Davidson Motor Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed July 9, 1920. Serial No. 394,882. 4 Claims. (Cl. 29—86.1.)

1. A chain repair tool having a vertically disposed head, a projection extending forwardly from the upper end thereof, a handle integrally united to the head intermediate the upper and lower extremities thereof, and extending horizontally and rearwardly therefrom, a punch axially movable through a vertical opening in the projection, means for operating the punch, a U-shaped anvil for insertion between the links of a chain, and means integral with the lower end of the head for supporting the anvil in adjusted position beneath the punch.



1,469,595. BATTERY CLAMP. HARRY J. HICK, Alliance, Ohio, assignor to The Hykon Manufacturing Company, Alliance, Ohio, a Corporation of Ohio. Filed Oct. 8, 1921. Serial No. 506,309. 2 Claims. (Cl. 180—68.5.)

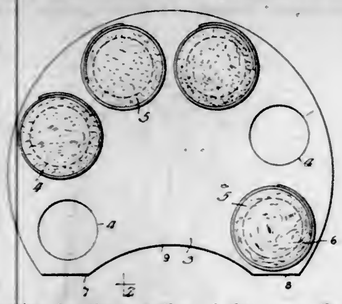


1. A clamp for an object and an adjacent support made of spring wire bent to form spaced parallel side arms to span an interval between the object and the support with means on their ends to engage one of them, a spring metal washer plate extending transversely across and engaging the side arms, a bolt extending from the support between the side arms and through the washer plate having a nut bearing upon the washer plate, whereby the arms and the washer plate are deflected when clamped by screwing the nut upon the bolt and the nut is thereby locked upon the washer.

1,469,596. TRAY. JOSEPH W. HOODWIN, Chicago, Ill., assignor to J. W. Hoodwin Company, Chicago, Ill. Filed July 9, 1921. Serial No. 483,485. 2 Claims. (Cl. 224—48.)

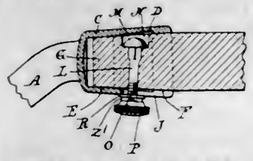
2. As an article of manufacture, a holder for cones formed of a flat rigid absorbent sheet of material, one

aspect thereof being suitably shaped to form a hand grip, and perforations provided in said sheet of absorbent ma-



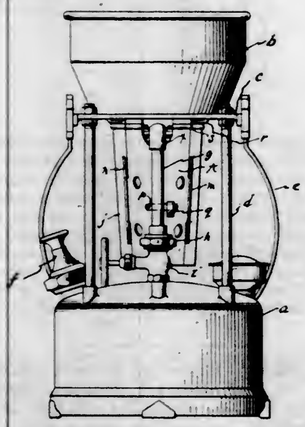
terial serving for the reception of the cones, the drippings from the cones being absorbed by the material of the holder.

1,469,597. SUCTION-CLEANER HANDLE. HOWARD EARL HOOVER, Chicago, Ill., assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio, a Corporation of Ohio. Filed Feb. 14, 1919. Serial No. 276,911. 1 Claim. (Cl. 306—35.)



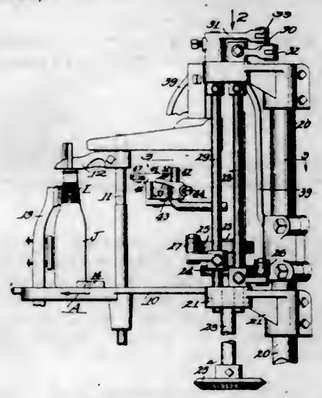
A handle comprising a part adapted to be secured and provided with a tubular socket, a handle shaft having an end adapted to be received in the socket, a pin attached to the handle shaft and projecting through a longitudinal slot in the socket and a thumb nut on the outside of the pin overlying the slot whereby rotational movement of the handle in the socket is prevented and longitudinal movement may be permitted or prevented at the will of the user.

1,469,598. FIRE POT. EDWARD J. HORN, Royal Oak, Mich., assignor to Detroit Torch and Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed May 31, 1922. Serial No. 564,765. 6 Claims. (Cl. 126—236.)



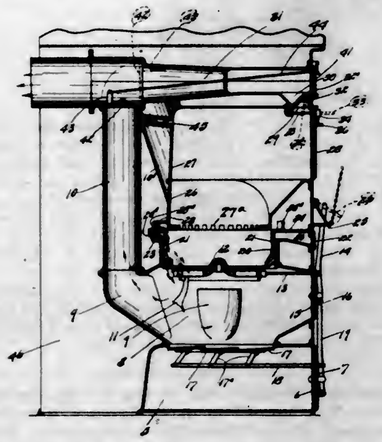
1. In a fire pot, the combination of an integral grid, a chimney secured thereto provided with means to permit the opening up of the side of the chimney, and a burner and preheating tube having a detachable support and which may be removed laterally through the side of the chimney when the same is opened up.

1,469,599. NECK-WIPING DEVICE. JOHN EMANUEL JOHNSON and CHARLES H. OSLUND, Worcester, Mass., assignors to The O & J Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 8, 1919. Serial No. 343,411. 9 Claims. (Cl. 216—13.)



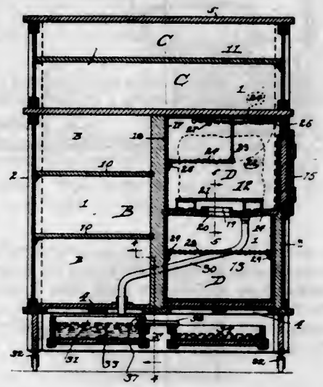
1. In a labeling machine, the combination of a pivotally supported member, and two rollers on said member, one of them being mounted to turn on its own axis and having a label wiping surface, with movable means for moving an article to be labelled into position to engage the other roller after passing the wiping roller out of contact therewith, and thereby swing the wiping roller into contact with the article.

1,469,600. DOWNDRAFT FURNACE. GEORGE A. MACKENZIE, Bay City, Mich. Filed Dec. 9, 1922. Serial No. 605,792. 9 Claims. (Cl. 126—103.)



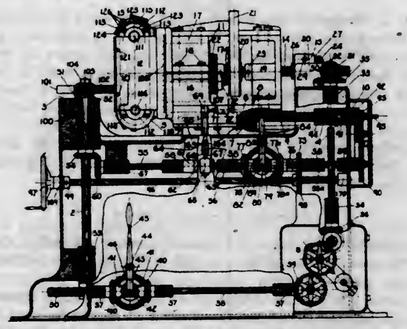
1. A hot air downdraft furnace comprising a base, a combustion chamber mounted thereon, means for closing communication between the combustion chamber and the base, a fire pot, an annular air chamber surrounding the fire pot and communicating with a plurality of spaced apart openings into the combustion chamber, a radiator mounted above the first pot, and a plurality of vertically disposed air passages leading from the combustion chamber to the said radiator.

1,469,601. COMBINED CHINA CABINET AND REFRIGERATOR. THOMAS MATSON, Chicago, Ill. Filed Apr. 4, 1923. Serial No. 629,836. 2 Claims. (Cl. 62—36.)



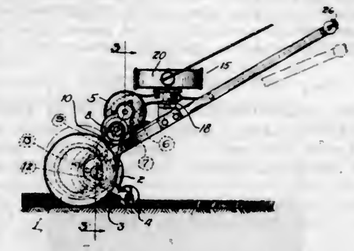
2. As a new article of manufacture, the combined china cabinet and refrigerator having a two chamber refrigerating compartment, a vertically arranged china compartment, laterally disposed with respect to the refrigerator compartment, and an upper china compartment extending over the first mentioned china compartment and the refrigerator compartment, a shallow lower compartment extending the width of the cabinet and provided with two removable receptacles, a water conduit from the refrigerator compartment leading to one of the receptacles, an overflow pipe leading from one receptacle to the other, a woven wire shelf in the ice chamber of the refrigerator compartment and means for securing the same when not in use to the ceiling of the ice chamber, said securing means embracing a fixed bracket and a pivoted latch.

1,469,602. MACHINE FOR AND METHOD OF BROACHING GEARS. JULIAN L. PERKINS, West Springfield, and HIRAM D. CROFT and FRANK W. SICKLES, Springfield, Mass., assignors to Perkins Appliance Company, Springfield, Mass., a Corporation of Massachusetts. Filed June 29, 1921. Serial No. 481,261. 108 Claims. (Cl. 90—1.)



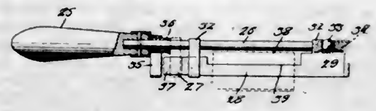
1. In a gear-broaching machine, means to carry and continuously revolve the work, and a cutting element that passes continuously through a straight path into which work carried by said means extends.

1,469,603. LAWN MOWER. JOHN W. PETERS, Roslyn, N. Y. Filed Mar. 2, 1921. Serial No. 449,258. 6 Claims. (Cl. 191—12.)



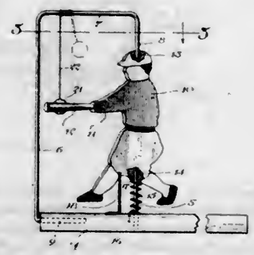
1. A lawn mower comprising a frame, a propelling wheel, a handle extending rearwardly therefrom whereby the operator may steer the machine, an electric motor connected with and adapted to propel the mower, means for supplying current to said motor comprising a self winding reel mounted on the mower and a cable comprising two conductors wound on said reel with its free end extending to a source of current supply.

1,469,604. RAZOR-BLADE HOLDER. HERMAN L. E. PETERSON, Rockford, Ill. Filed June 3, 1921. Serial No. 474,666. 1 Claim. (Cl. 51—221.)



A razor blade holder of the character described comprising a handle, a blade-holding means attached to the handle for holding a blade beyond one end thereof with an edge to be sharpened disposed parallel with and laterally offset from the longitudinal axis of the handle, a ball, and a retainer for holding the ball in connection with said blade-holding means beyond the end thereof remote from the handle and with the ball in alignment with said axis and projecting from opposed sides of the retainer on opposite sides of the blade, whereby the handle may be manipulated at will with either projecting side of the ball in contact with a sharpening surface for determining the angle of the blade with respect to said surface during the sharpening or honing operation.

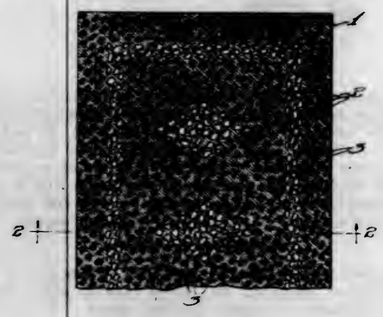
1,469,605. TOY. MILLARD F. PIERCY, Baltimore, Md. Filed Oct. 20, 1922. Serial No. 595,709. 1 Claim. (Cl. 46—40.)



A toy comprising a base, a wire frame extending upwardly from the base and projecting rearwardly and terminating in a downturned prong, a stem projecting

upwardly from the base, a block pivotally engaged at its upper end by the prong and pivotally engaged by the stem, a spring coiled about the stem and engaging the block to swing the latter in one direction, a stop to limit the swinging movement of the block, and a ball suspended in the path of the block to be struck by the latter during its swinging movement.

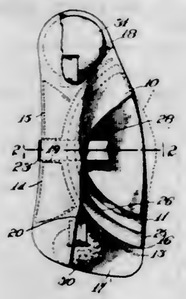
1,469,606. WATERPROOF PRODUCT AND PROCESS OF MAKING SAME. CHESTER E. RAHR, Boston, Mass., and LESTER KIRSCHBRAUN, Chicago, Ill. Filed Nov. 19, 1919. Serial No. 339,210. 9 Claims. (Cl. 91—68.)



4. A waterproof covering consisting of a foundation, a granular surfacing adhesively applied thereto, a waterproof matrix of different color than the granular surfacing, said matrix containing an adhesive waterproof binder and colloidal clay, filling the interstices between the granular particles and the exposed surfacing of the covering.

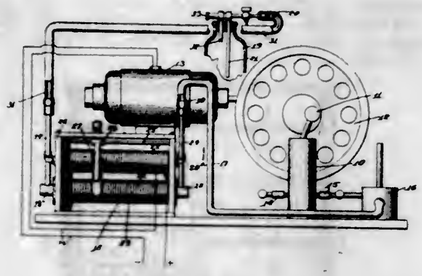
7. A process of making a waterproof covering consisting in applying a waterproof matrix of pre-determined color in the voids of the granular surfacing of prepared roofing and then smoothing down the matrix and abrading the upper edges of the granular surfacing to form a uniformly smooth sheet in which the color of the granular surfacing is exposed.

1,469,607. DEVICE FOR GIVING FOOT COMFORT. WILLIAM M. SCHOLL, Chicago, Ill. Filed Feb. 8, 1919. Serial No. 275,698. 12 Claims. (Cl. 36—71.)



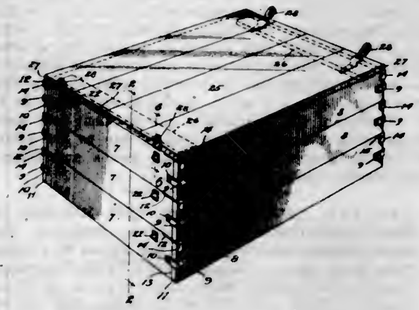
1. In a device of the character described, upper and lower members connected to form therebetween a marginally-open pocket having an opposite relatively-restricted opening, and a filler in said pocket comprising a member having a slit therethrough and a ductile metal ribbon engaging said slit, said ribbon passing through the said restricted opening and bent around the edge of said opening for retention.

1,469,608. APPARATUS FOR PREPARING ANÆSTHETICS. LEOPOLD STEINER, New York, N. Y., assignor to Leopold Steiner Mfg. Co., Inc., a Corporation of New York. Filed Aug. 9, 1920. Serial No. 402,188. 4 Claims. (Cl. 126—192.)



1. A device for preparing an anæsthetic comprising a volatile anæsthetic material and means for mixing heated fluid therewith to prevent the same from freezing during volatilization, said means comprising a fluid supply and a heating device, said heating device adapted also to regulate the fluid supply.

1,469,609. SECTIONAL BIN. ULYSSES S. STEWART, Baltimore, Md., assignor of one-half to Edgar C. Stewart, Baltimore, Md. Filed Nov. 3, 1922. Serial No. 598,726. 2 Claims. (Cl. 217—13.)

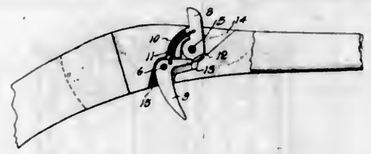


1. A sectional knock-down bin comprising a plurality of superposed sections each section having separable end and side walls and each end wall having means at each end thereof for exteriorly engaging the side walls and each side wall having exterior means at each end thereof for engaging the end walls, and means on the interior and at each end of each end and side wall of a section for interiorly bracing said section walls the interior means on one section extending down and engaging the walls of the section beneath it.

1,469,610. TOY GUN. GUSTAV USTYNIK, Wharton, Tex. Filed Apr. 17, 1923. Serial No. 632,663. 1 Claim. (Cl. 124—14.)

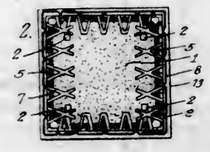
A toy gun having a gun barrel provided with a hammer and a trigger, the hammer adapted for receiving one end of a rubber band, while the other end of the band is to be engaged with the end of the barrel, a pivot connection for the hammer within a cavity of the barrel, a pivotal connection for said trigger also within the cavity, and means

for extending the hammer rearwardly into engagement with one edge of said cavity, said means also serving to engage one end of the trigger and one end of the hammer



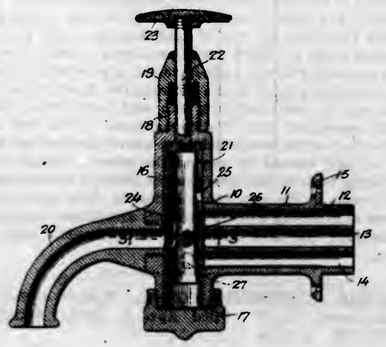
to prevent release of the hammer, and to also return the trigger and hammer to a set position after the trigger has been released.

1,469,611. CONCRETE PILE AND THE LIKE. HENRY R. ASSERSON, New York, N. Y. Filed Mar. 10, 1921. Serial No. 451,414. 6 Claims. (Cl. 61—54.)



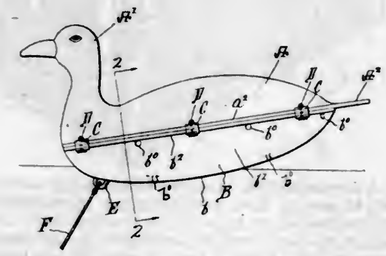
1. In a concrete structure, a core of concrete, a layer of waterproofing material, a metallic protective sheet, a second metallic sheet surrounding said protective sheet, and a covering of water-resistant material.

1,469,612. THREE-WAY FAUCET. AUGUST T. J. BAHR, Murphysboro, Ill., assignor, by direct and mesne assignments, of one-fourth to Raymond A. Hatfield, one-fourth to James J. Gallagher, three-eighths to Fred Heiberg, and one-eighth to Charles Franks, all of St. Louis, Mo. Filed Nov. 17, 1921. Serial No. 515,743. 1 Claim. (Cl. 251—4.)



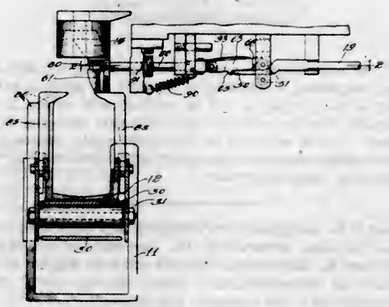
A faucet having a discharge spout, a vertical cylinder with which the spout communicates and from which it is detachable, a removable cap closing the lower end of the cylinder, a rearwardly projecting portion having upper, intermediate and lower fluid channels, opening into the cylinder, a gasket nut threaded on the upper end of the cylinder, a cylindrical valve of hollow form interfitting and vertically shiftable and rotatable within the cylinder, having a stem projecting upwardly through the gasket nut, and having an upper wall opening shiftable upon vertical movement of the valve into independent registry with the upper fluid channel and also having circumferentially spaced and vertically offset wall openings for registration with the intermediate and lower channels upon oppositely rotative movements of the valve, said valve also having an enlarged opening in its wall in constant registry with the discharge spout and having a blank section of its wall between its openings of sufficient area to close the several channels when the valve is in upper central position, and a handle at the upper end of the valve stem.

1,469,613. DECOY DUCK. JOSEPH KENTON BAILEY, New Orleans, La., assignor to Bayco Decoy Company, Inc., New Orleans, La., a Corporation of Louisiana. Filed Dec. 26, 1922. Serial No. 609,064. 2 Claims. (Cl. 43—3.)



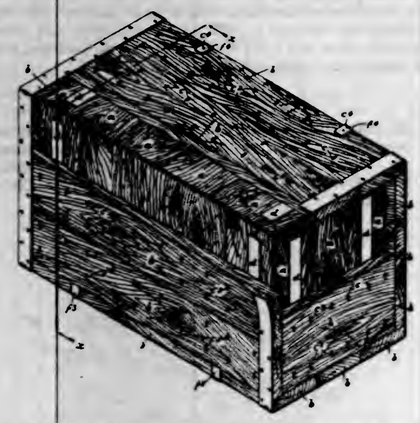
2. A decoy for use in attracting water fowl, comprising an upper closed hollow flotation chamber made in imitation of the upper portion of the water fowl, and a lower ballast chamber provided with perforations adapted to permit the influx of water and the escape of air, said upper and lower chambers being provided with laterally disposed flanges secured together and forming a complete decoy.

1,469,614. CORKING MACHINE. HARRY O. BENTON, Bayonne, N. J., assignor to Standard Development Company, a Corporation of Delaware. Filed Feb. 3, 1921. Serial No. 442,029. 3 Claims. (Cl. 226—89.)



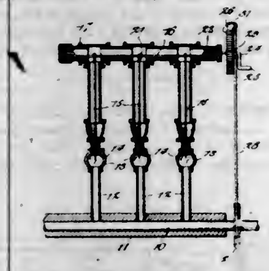
1. In a bottle-corking machine having a tripping rod adapted to be moved to set the machine into operation, a bottle support, a contact head attached to said rod and projecting over said support, and an abutment between which and said contact head a portion of a bottle enters when placed on said support, whereby the head is pressed upon to actuate said rod.

1,469,615. PACKING CASE. LOUIS IVES MILLER BIGBY and JAMES ROBERT MEIKLE, London, England, assignors to Thomas Meadows & Co., Limited, London, England, a Corporation of Great Britain. Filed Oct. 19, 1921. Serial No. 508,786. 5 Claims. (Cl. 217—66.)



1. A wooden packing case comprising two ply walls, the boards of one ply having their meeting edges extending in a direction at an angle to the meeting edges of the boards of the juxtaposed ply, and metal straps arranged between the two plies and at an angle to the meeting edges of the boards of the outer ply.

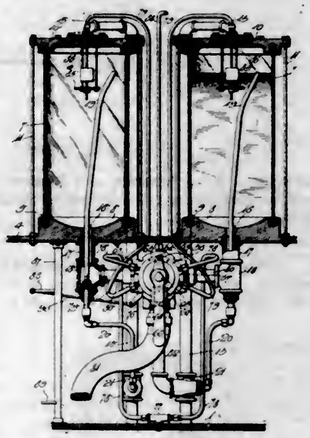
1,469,616. OILING DEVICE. EDWARD BOLGER, New York, N. Y. Filed June 10, 1921. Serial No. 476,553. 5 Claims. (Cl. 184—74.)



1. In combination with a driving shaft, an oiling system comprising a plurality of vertical oil pipes, a valve in each of said pipes, a rod in each of said valves, a horizontally disposed pipe having connection with the vertical pipes, a crank mounted in said horizontally disposed pipe and having operative connection with said rods to intermittently open the valve.

1,469,617. LIQUID-DISPENSING APPARATUS. JOHN A. BRIDEN, Springfield, Ill., assignor of one-third to Uriah R. McCutchen and one-third to James A. Hall, both of Springfield, Ill. Filed Dec. 20, 1920. Serial No. 431,961. 31 Claims. (Cl. 221—95.)

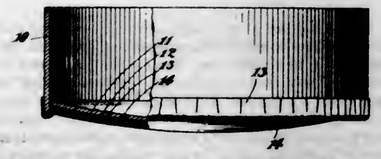
1. In an apparatus of the class described, the combination of a storage tank, a pair of measuring vessels, means for causing liquid to flow from said tank to said vessels, means for conducting liquid in said vessels in excess of a predetermined amount back into said tank, and means operable to alternate positions for simultaneously allowing one vessel to empty and the first named means to operate to fill the other vessel and at the same time preventing said excess liquid from passing out of the vessel being filled through the second named means, the last named means being also operable to another position for permitting said excess liquid to pass out of either vessel through the second named means and at the same time preventing filling and emptying of said vessels.



2. In an apparatus of the class described, the combination of a storage tank, a pair of measuring vessels, means for causing liquid to flow from said tank to said vessels, means for conducting liquid in said vessels in excess of a predetermined amount back into said tank, and means operable to alternate positions for venting one vessel and allowing it to empty and simultaneously permitting the first named means to operate to fill the other vessel and at the same time preventing said excess liquid from passing out of the vessel being filled through the second named means, the last named means being also operable to another position for venting said vessels and permitting said excess liquid to pass out of either vessel through the second named means and at the same time preventing filling and emptying of said vessels.

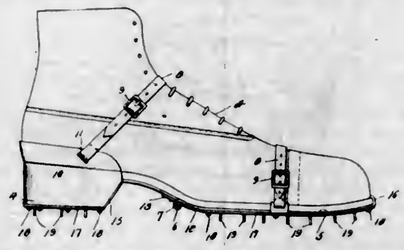
10. In an apparatus of the class described, the combination of a storage tank, a pair of measuring vessels, means for causing liquid to flow from said tank to said vessels, a delivery hose, valve mechanism operable alternately as a single unit for simultaneously causing one vessel to empty by way of said hose and said means to operate to fill the other vessel and being operable to a neutral position wherein neither vessel is permitted to empty by way of said hose, means whereby the liquid in said vessels may be conveyed back into said tank, valve mechanism associated with the last defined means and being operable to alternate positions to permit or prevent drainage of said vessels by way of the latter, a single casing enclosing both of said valve mechanisms, a housing enclosing parts of the apparatus including said valve mechanisms and having a movable door, and means operatively connecting the last defined valve mechanism with said door.

1,469,618. CONTAINER COVER. ROBERT BUEDINGEN, Rochester, N. Y. Filed Apr. 7, 1922. Serial No. 550,278. 5 Claims. (Cl. 229—5.5.)



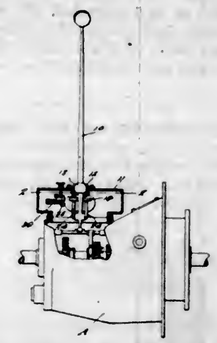
4. In a container cover, in combination, a side member, a closely fitted supporting member within the side member, a top member the inset portion of which is attached to the supporting member and the flange portion of which is attached to the edge of the side member and a flexible member attached to the outer face of the top member and to the outer face of the side member.

1,469,619. ICE CREEPER. CHARLIE TRUITT BYRD, Atlanta, Ga. Filed Aug. 6, 1921. Serial No. 490,287. 2 Claims. (Cl. 36—63.)



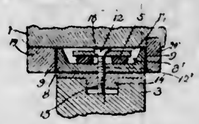
1. An anti-slipping attachment for shoes consisting of plates, means below the upper surface of the plates to pivot them together to yield with a sole of a shoe, anti slipping means on said plates, and spring means associated with said hinge to prevent sagging of the plates.

1,469,620. TRANSMISSION LOCK. ORLANDO CARROLL, Catonsville, Md. Filed Mar. 31, 1922. Serial No. 548,499. 6 Claims. (Cl. 70—128.)



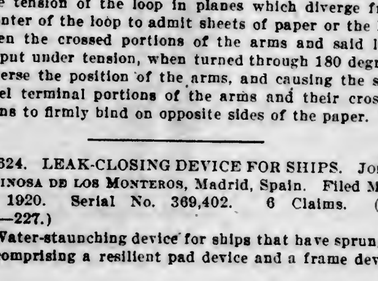
1. An automobile lock comprising a casing receiving the gear shift lever, means arranged within the casing for automatically returning the said lever from an active to its neutral position, and means for locking the aforementioned means against movement, with the lever in its neutral position.

1,469,621. WINDOW. SOLOMON CHERVIN, San Francisco, Calif. Filed Oct. 21, 1921. Serial No. 509,351. 1 Claim. (Cl. 20—49.)



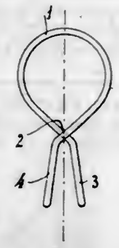
In a window construction, having a sash therein, the combination with a stile of said sash having a lateral recess, of a channeled supplemental stile having a perforation, a plate disposed in said recess and having an inwardly extending boss disposed in a reduced portion of said recess, a pivot bolt disposed in said perforation and having threaded engagement with said boss, a sash cord engaging said pivot bolt and located within the channel of the supplemental stile, and a washer engaging said bolt and clamping said sash cord between the same and said supplemental stile.

1,469,622. FIBER BOARD AND LIKE BOX. ALEXANDER COLE, Lymm, England. Filed July 19, 1921. Serial No. 485,944. 1 Claim. (Cl. 229—16.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



The combination, with a box blank provided with foldable flaps which overlap when the blank is folded to form the box, of bifurcated fastening devices having sharply pointed ends and adapted to secure the overlapping flaps together in pairs, said fastening devices being forced into one flap of each pair and partially expanded while the blank is flat so as to hold them connected to it, said fastening devices being adapted to be forced through the other flap of each pair and fully expanded when the blank is folded to form the box.

1,469,623. SPRING CLIP. COLOMBAN COLOMBANI, Bondy, France, assignor to Jean M. A. Darlin, Paris, France. Filed Nov. 17, 1920. Serial No. 424,780. 1 Claim. (Cl. 24—261.)

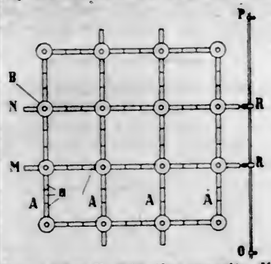


A spring wire clip comprising a loop open on one side and arms extending directly from the loop at the open side and arranged in crossed relation and provided with substantially parallel terminal portions, the said arms and corresponding parts of the loop being normally held by the tension of the loop in planes which diverge from the center of the loop to admit sheets of paper or the like between the crossed portions of the arms and said loop being put under tension, when turned through 180 degrees to reverse the position of the arms, and causing the said parallel terminal portions of the arms and their crossed portions to firmly bind on opposite sides of the paper.

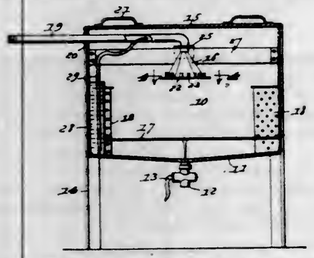
1,469,624. LEAK-CLOSING DEVICE FOR SHIPS. JORGE ESPINOSA DE LOS MONTEROS, Madrid, Spain. Filed Mar. 27, 1920. Serial No. 369,402. 6 Claims. (Cl. 114—227.)

1. Water-staunching device for ships that have sprung a leak, comprising a resilient pad device and a frame device

carrying such pad and consisting of chains jointed so that the device may fold toward the hull of the ship, and resists all folding or bending in the opposite direction and coupling devices connecting said chains and carrying the resilient pad.



1,469,625. DISHWASHING MACHINE. HORACE L. DODGE, Buffalo, N. Y.; Carrie E. Dodge administratrix of said Horace L. Dodge, deceased. Filed May 2, 1921. Serial No. 466,175. 2 Claims. (Cl. 141—9.)



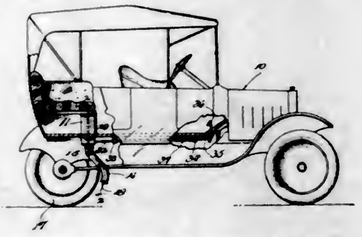
1. A dish washing apparatus having a receptacle provided with a removable top or cover, and a water distributing nozzle located within the receptacle near its top and in communication with a feed pipe introduced through a side wall of the receptacle, a cross bar being arranged in spanning relation with the receptacle to support said nozzle and having down turned terminals for engaging supporting bars arranged adjacent to opposite side walls of said receptacle.

1,469,626. ELECTRIC HEATING SYSTEM. JOHN W. DORSEY, Winnipeg, Manitoba, Canada. Filed Sept. 18, 1920. Serial No. 411,103. 14 Claims. (Cl. 219—19.)



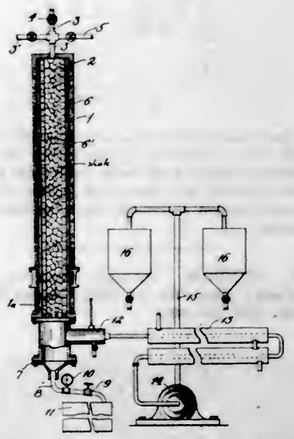
1. An electric heating system comprising a plurality of stationary contacts arranged in pairs of opposite polarity for connection with a source of electrical energy, a heating element for the human body, and contacts connected with said heating element and each adapted to be moved alternately into and out of contact with one of said pairs of opposite polarity of said stationary contacts.

1,469,627. SANDING APPARATUS FOR VEHICLES. LEONARD J. DUFFNER, Lynchburg, Va. Filed Jan. 22, 1923. Serial No. 614,250. 8 Claims. (Cl. 291—28.)



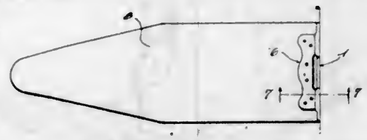
4. A sanding apparatus for motor vehicles comprising a receptacle, guide tubes leading from the bottom of the receptacle and having mouths opening in front of the respective driving wheels of the vehicle, a partition spaced from the bottom of the receptacle and furnishing a delivery opening with the sides of the receptacle, a shutter closing said opening, means for operating said shutter, flap valves fitting against the outer edges of said mouths and positively connected with said shutter, a guide rod slidably mounted in said receptacle, linked connection between said guide rod and said shutter, agitators secured on said guide rod, said operating means including a lever, linked connection between said lever and said shutter and a closing element holding said lever in set position and the shutter together with said valves closed.

1,469,628. TREATMENT OF OIL SHALE. ROY C. DUNDAS, Los Angeles, and RAYMOND T. HOWES, Santa Maria, Calif., assignors to S. E. Company, a Corporation of Delaware. Filed Dec. 23, 1921. Serial No. 524,515. 5 Claims. (Cl. 196—21.)



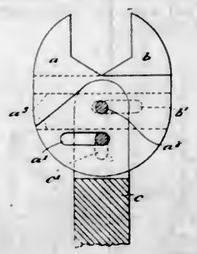
5. The method of distilling oil shale or the like, which consists in slowly and progressively burning a charge of shale in a closed chamber from the top downwardly, maintaining the combustion at a substantially constant temperature by supplying and regulating a downward current of air through the chamber, and drawing off the hydrocarbon products at the bottom of the chamber.

1,469,629. IRONING-BOARD-SUPPORTING MEANS. LE ROY C. EDDY and EVERETT H. EDDY, Warren, Pa. Filed Nov. 20, 1922. Serial No. 602,096. 1 Claim. (Cl. 68—10.)



An ironing board support comprising a bar adapted to be secured flat against a vertical wall, the ends of said bar being vertically widened, providing downwardly extending portions having inwardly projecting ledges spaced downwardly from the body portion of said bar, the rear side of said bar being recessed above said ledges; and a plate adapted to be secured flat upon one end of an ironing board, one edge of said plate having upwardly extending flanges to hook around the lower edge of said body portion of said bar directly over said ledges, said flanges being then received in the recesses of said bar with their outer ends abutting said downwardly extending bar portions and being held in this position by contact of the ironing board with said ledges, said flanges being spaced inwardly from the ends of the aforesaid edge of said plate, leaving portions of said edge exposed to form shoulders for contact with the front faces of the widened ends of said bar, preventing downward swinging of said plate below a horizontal position.

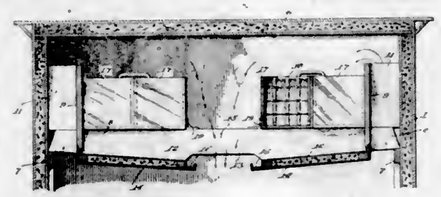
1,469,630. DEVICE FOR PRODUCING RELATIVE TRANSLATIONAL MOVEMENT. HAROLD EGG, Billingshurst, England. Filed Apr. 20, 1921. Serial No. 462,954. 4 Claims. (Cl. 81—126.)



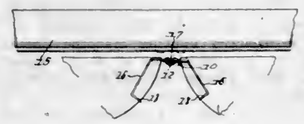
1. In mechanical devices, such as adjustable spanners or the like in which it is desired to produce relative translational movement of two members of the device by means of an actuating handle or lever, a double pin and slot connection correlating the actuating lever with one of the relatively movable members comprising a slot in said member aligned in the required direction of relative motion and cooperating with a pin in the said lever, and a slot in the actuating handle or lever aligned substantially at right angles to the slot in the aforesaid member and cooperating with a pin in said member, substantially as described.

1,469,631. REFRIGERATOR OR COLD-STORAGE ROOM. ALBERT H. EHRLICH, St. Joseph, Mo. Filed Jan. 30, 1922. Serial No. 532,796. 3 Claims. (Cl. 62—46.)

1. A refrigerator comprising a building having walls, joists fastened to the walls, a plurality of secondary joists extending transversely of the building and supported by said first-mentioned joists, a plurality of baffle-boards having notches mounted between the secondary joists and embracing said joists by means of the notches, said baffle-boards spaced from said walls to form a circulating air space, and a plurality of braces mounted on the ends of the secondary joists and extending between the walls of said baffle-boards to support the baffle-boards and form a plurality of ducts for the circulation of air, and pans supported at the lower edge of said secondary joists, said pans forming a division in the building between an upper cooling compartment and a lower food compartment.

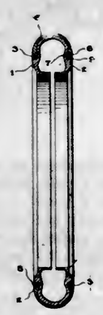


1,469,632. TYPE CLEANER FOR TYPEWRITING MACHINES. CARL E. ERICSON and JOHN MARVIN ERICSON, El Campo, Tex. Filed Aug. 1, 1922. Serial No. 578,983. 6 Claims. (Cl. 197—185.)



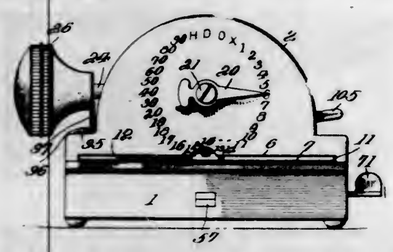
1. A type cleaning brush for typewriting machines having a brush head provided with bristles arranged in the path of movement of the type heads in their movement between their positions at rest and their printing positions, the brush head being of looped form defining a throat and having the bristles carried by the side members thereof.

1,469,633. PROTECTIVE COVER FOR AUTOMOBILE TIRES. CARLOS J. ESCOTO, Habana, Cuba. Filed Feb. 28, 1923. Serial No. 621,866. 2 Claims. (Cl. 152—17.)



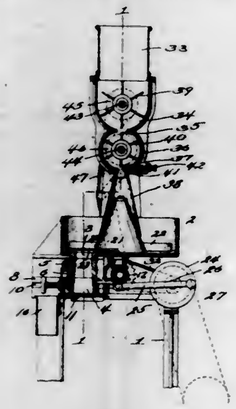
2. In combination with a tire having recesses formed in its side walls, beads in said recesses formed integral with the tire, a cover of non-flexible material and of semi-circular shape in cross section, curved tongues at the edges of the cover for engaging the space between the beads and the walls of the recesses and locking plates detachably connected with the cover and having curved inner faces for engaging the outer faces of the beads.

1,469,634. CHECK PROTECTOR. BENJAMIN O. FANSLOW, New York, N. Y., assignor to New Era Mfg. Company, New York, N. Y., a Corporation of New York. Filed July 24, 1920. Serial No. 398,652. 27 Claims. (Cl. 197—6.4.)



1. A check protector comprising a casing, a printing wheel mounted in said casing to rotate about a fixed axis, a platen, a vertically reciprocating carriage carrying the platen and moving in guiding recesses in said casing, a cross bar fixed to the casing, a swinging lever disposed between the cross bar and the carriage and having means for raising the carriage and platen to print the check.

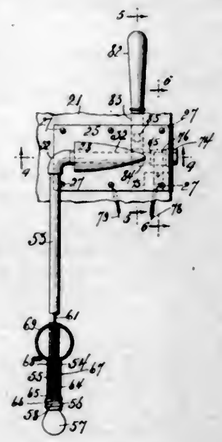
1,469,635. TOBACCO-MEASURING MACHINE. GEORGE J. FEABLER, Baltimore, Md., assignor to Wright's Automatic Tobacco Packing Machine Company, Durham, N. C., a Corporation of West Virginia. Filed June 23, 1922. Serial No. 570,342. 12 Claims. (Cl. 226—102.)



1. A measuring mechanism of the character described comprising a material supply pocket, a measuring pocket movable to and from a position to receive a charge of material from the supply pocket, and means for feeding material to the supply pocket embodying a device for cutting off such feed while the measuring pocket is in a position to receive a charge of material.

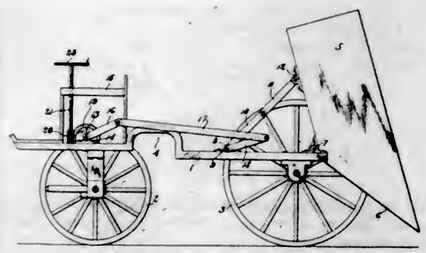
1,469,636. SIGNAL DEVICE. CLAYTON CHESTER FERGUSON, Jersey City, N. J. Filed Sept. 11, 1920. Serial No. 409,730. 4 Claims. (Cl. 116—47.)

1. In a signal device for a vehicle the combination of a journal housing extending through the roof of the vehicle, said housing having formed therewith a top frame plate bearing on the top side of said roof, a bottom clamping plate bearing on the lower face of said roof, means to connect together the top frame plate, the roof and the bottom clamping plate, a tubular axle journaled in said housing, a signal arm on the upper side of said roof extending from said axle, an operating handle connected to said axle below said roof, said signal arm



adapted to be swung to different positions above said roof by said handle and means to maintain the signal arm in different positions.

1,469,637. DUMP WAGON. BARNETT GERSHOVITZ, Canton, Ohio. Filed Dec. 13, 1922. Serial No. 606,748. 1 Claim. (Cl. 298—19.)

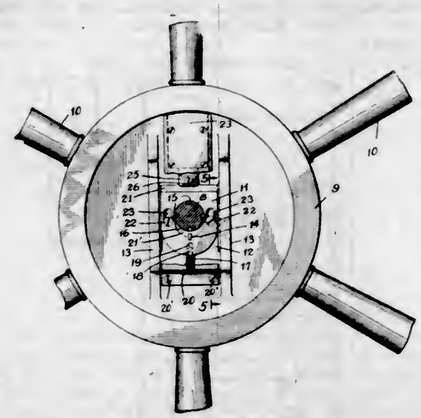


A dump wagon including a frame, a body pivotally mounted near its rear end upon the frame, a rocker shaft upon the frame, a rocker arm upon the shaft, a link pivotally connecting the rocker arm and body, a second rocker arm upon the shaft, a second rocker shaft mounted in the forward portion of the frame, a rocker arm on said second shaft, a link connecting said last named rocker arms, a worm gear upon the second shaft, a worm meshing with said gear and means for operating said worm.

1,469,638. PRESSURE SYSTEM FOR SAFE OR VAULT DOORS AND THE LIKE. GUSTAVE M. GOLDSMITH and CARL P. BARTELS, Hamilton, Ohio, assignors to The Mosler Safe Company, Hamilton, Ohio, a Corporation of New York. Filed Sept. 23, 1921. Serial No. 502,623. 6 Claims. (Cl. 109—11.)

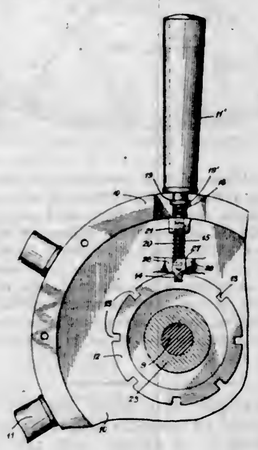
1. The combination with a safe or vault door, or the like, of a pressure system therefor adjustable into or out of operative condition, said system including a hand wheel,

and operable means comprising a lock associated with said system and mounted on the rear side of said hand wheel



so as to be concealed from view for controlling the adjustment of said system into and out of operative condition.

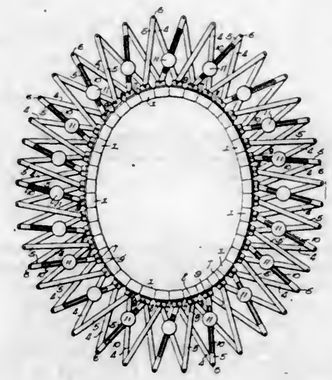
1,469,639. PRESSURE SYSTEM FOR SAFE OR VAULT DOORS AND THE LIKE. GUSTAVE M. GOLDSMITH and CARL P. BARTELS, Hamilton, Ohio, assignors to The Mosler Safe Company, Hamilton, Ohio, a Corporation of New York. Filed Sept. 23, 1921, Serial No. 502,723. Renewed Aug. 18, 1923. 4 Claims. (Cl. 109—11.)



1. In a pressure system for safe or vault doors or the like, the combination with a worm shaft, a pilot wheel rotatably mounted on said shaft and a handle rotatably mounted in said wheel, of means whereby a driving connection may be established or may be disabled between said pilot wheel and said worm shaft in response to predetermined rotation of said handle on said wheel.

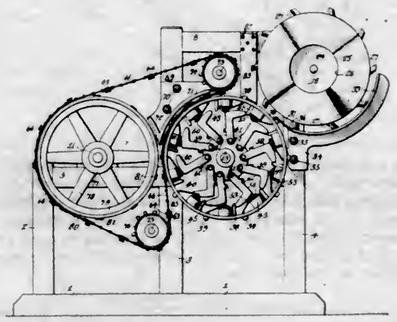
1,469,640. HEAD GAUGE FOR HATTERS. OSCAR GRAFF, Philadelphia, Pa. Filed July 11, 1922. Serial No. 574,257. 4 Claims. (Cl. 33—175.)

1. The combination in a head gauge for hatters, of a series of blocks assembled to form a ring; and two series of arms pivotally connected to the blocks, the arms of one series crossing those of the other series and the arms



of one series being pivoted at their outer ends to the arms of the other series.

1,469,641. NUT-CRACKING MACHINE. THADDEUS S. GRIMES, Columbus, Ga., assignor to Sidney G. Simons, Columbus, Ga. Filed Apr. 14, 1923. Serial No. 632,105. 18 Claims. (Cl. 146—11.)

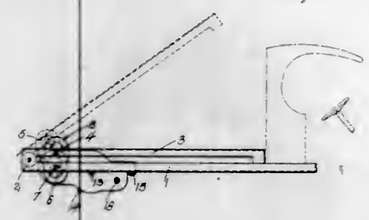


1. A nut cracking machine comprising a nut feeding element provided with nut delivery members, a carrier element arranged in cooperative relation with respect to said feeding element and provided with shiftable sleeves for the reception of the delivered nuts and further provided with retained abutments arranged in said sleeves, traveling compressing elements cooperating with said sleeves and abutments for cracking the nuts, and a cracking element cooperating with said carrier element and provided with protuberances engageable with said compressing elements for operating them to crack the nuts.

1,469,642. TRUCK HOIST. FRANK B. HEWEL, Akron, Ohio. Filed Mar. 5, 1921, Serial No. 449,918. Renewed July 17, 1923. 5 Claims. (Cl. 298—19.)

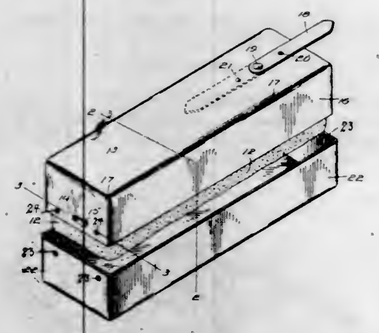
1. In truck hoist means, a main frame, a sub-frame hinged to said main frame, a shaft rotatably mounted in the sub-frame in advance of the hinge axis thereof, a

shaft rotatably mounted in the main frame, a gear eccentrically secured upon the shaft of the sub-frame, a



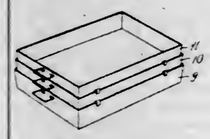
gear eccentrically secured upon the shaft of the main frame and in mesh with the gear on the sub-frame, and means for rotating the shaft carried by said main frame.

1,469,643. COMBINED BRUSH AND POLISHER. WILLIAM L. HOVEY, Flint, Mich. Filed June 22, 1922. Serial No. 570,160. 1 Claim. (Cl. 15—10.5.)



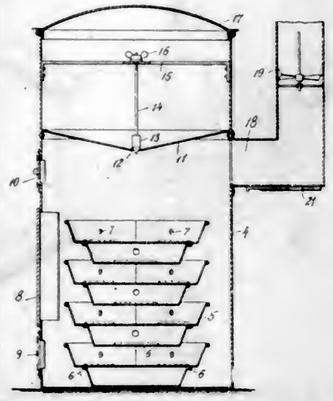
In a device of the class described, a casing having one movable side, a head member mounted for rotation in said casing and having bristles at one side and a polishing element at the other side, said head being rotatable in the casing when the movable side is disposed in open position, and means for yieldably holding said head member in either of its positions.

1,469,644. BURNING SULPHUR. WILLIAM HOFFMAN KOBBE, New York, N. Y., assignor to Texas Gulf Sulphur Company, Bay City, Tex., a Corporation of Texas. Filed Aug. 8, 1922. Serial No. 580,419. 4 Claims. (Cl. 23—1.)



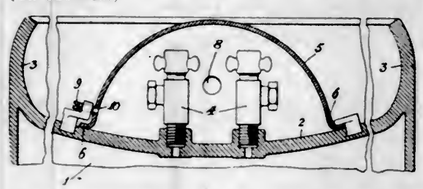
4. A sulphur burner comprising a plurality of open pans adapted to contain sulphur to be burned, said pans being stacked one upon the other in such manner that the products of combustion of the sulphur burning therein pass directly from each pan to the atmosphere, but at the same time permitting a mutual transmission between the pans of a substantial amount of the heat of combustion of the burning sulphur.

1,469,645. SULPHUR BURNER. WILLIAM HOFFMAN KOBBE, New York, N. Y., assignor to Texas Gulf Sulphur Company, Bay City, Tex., a Corporation of Texas. Filed Feb. 21, 1923. Serial No. 620,344. 5 Claims. (Cl. 23—1.)



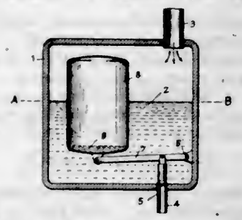
1. In a sulphur burner, a pan having slots in its sides to receive the corners of the overlying pan when the pans are stacked.

1,469,646. PROTECTOR FOR VALVES OF CONTAINERS. CHARLES L. ROWLAND, Carbondale, Pa. Filed Aug. 6, 1920. Serial No. 401,731. 5 Claims. (Cl. 220—85.)



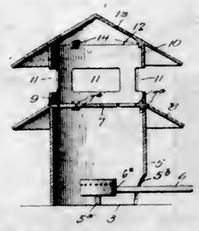
1. The combination with a container having an end wall, sunken below its side wall, forming an open valve compartment, valves projecting from said end wall into said compartment, of a removable bonnet covering said valves and housed within said compartment below the end of the side wall, said bonnet having a circumferential flange disposed angularly with respect to the main body of the bonnet and extending substantially parallel to the end wall, and resting on the latter, and means carried by the end wall for engaging said flange to prevent outward displacement of the bonnet.

1,469,647. HOLLOW INCLOSED FLOAT. EDUARD RUEGGER, Zurich, Switzerland. Filed Jan. 27, 1920. Serial No. 354,507. 3 Claims. (Cl. 137—103.)



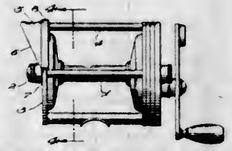
1. A hollow closed float for controlling the flow of freezing liquid and a liquid therein that will volatilize at temperatures lower than the volatilizing temperature of the freezing liquid to be controlled, whereby the pressure within the float will be greater than that outside the float under all conditions of operation.

1,469,648. HEATER. WILLIAM S. SHUPE, Philadelphia, Pa. Filed Jan. 8, 1923. Serial No. 611,358. 3 Claims. (Cl. 126—85.)



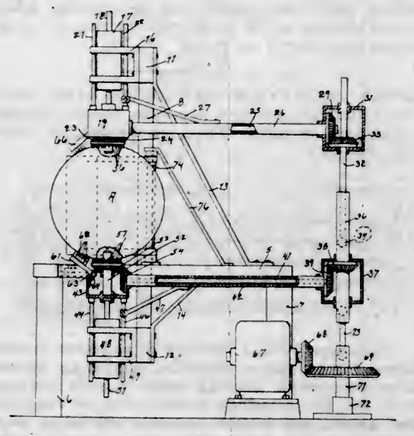
1. In a heater of the character described, a pair of apertured casings one arranged above and in alignment with the other, a burner located within the lower of said casings, an apertured heat deflecting plate interposed between said casings and having a downturned annular flange extending beyond the casing, and a conical crown overlying the upper casing and outstanding therefrom.

1,469,649. HAND REST FOR FISHING REELS. FRANCIS J. SINKULA and HERMAN H. KOWITZ, Pembine, Wis. Filed Sept. 22, 1922. Serial No. 589,947. 5 Claims. (Cl. 242—84.1.)



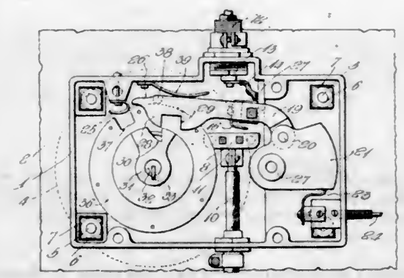
3. A hand rest for fishing reels having a bead for engagement over the edge of one of the end plates of the reel, and a tongue for connection to the clamping nut of the reel, said rest further having clips extending behind the end plate of the reel.

1,469,650. VEGETABLE AND FRUIT PEELING DEVICE. HENRY SLETTO, Templeton, Calif. Filed Apr. 23, 1923. Serial No. 634,121. 3 Claims. (Cl. 146—43.)



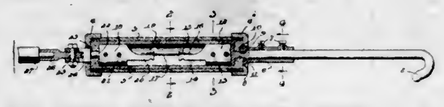
1. In a device of the character described, a table, a support extending below and above said table, vegetable engaging means supported from the extremity of said supports, means for moving said vegetable engaging means to and away from each other, a standard mounted on said table, a frame pivoted to said standard, said frame having curved portions, a plurality of rods slidably mounted in said curved portions each of said rods having a spring knife carrier movably secured to one end thereof, a knife mounted on each of said carriers and a cutter wheel mounted on the free end of said carrier.

1,469,651. PERMUTATION SWITCH. LAEONCE FRANCIS HYMEL, New Orleans, La. Filed Oct. 16, 1922. Serial No. 594,946. 5 Claims. (Cl. 200—43.)



1. A permutation switch comprising a casing having an internal fixed contact, a longitudinally and laterally movable switch member in said casing, permutation means associated with said switch member for effecting lateral movement thereof into engagement with said fixed contact and for then moving said switch member longitudinally, and relatively stationary means in the casing with which said switch member is engaged by said longitudinal movement to hold said member in engagement with said fixed contact.

1,469,652. SAFETY DEVICE. WILLIAM EWART JAMES, Beards Fork, W. Va., assignor of one-third to Nathaniel B. Lee and one-third to Lenard Walker, both of Beards Fork, W. Va. Filed July 12, 1922. Serial No. 574,590. 3 Claims. (Cl. 191—12.)

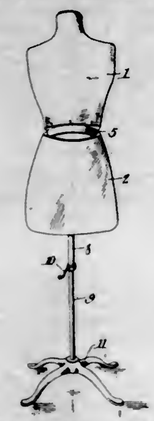


1. In a device for the purpose set forth, a metal rod having a bent end, a casing of insulating material, a frame also of insulating material arranged therein, metal blocks at the ends of the frame passing therethrough, a socket connected to the frame and casing receiving the metal rod therein, adjusting means between the socket and the rod, a head on one of the blocks projecting through one end of the frame and casing, a terminal pivoted thereto, a conductor connected to the terminal, and a fuse removably secured between the blocks.

1,469,653. DRESS OR GARMENT FORM. JACK C. JANKUS, Scranton, Pa., assignor to Womans Institute of Domestic Arts & Sciences, Inc., Scranton, Pa., a Corporation of Delaware. Filed June 26, 1920. Serial No. 392,124. 3 Claims. (Cl. 223—18.)

1. In a dress form, the combination of a bust member having an annular flange projecting from the lower part

thereof, a skirt form, and a supporting standard, said skirt form having a member secured thereto adjacent



its upper edge, said member providing a seat for the annular flange and being provided with an axial recess for receiving one end of said supporting standard.

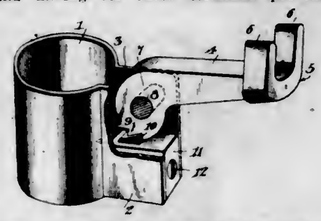
1,469,654. ELECTRIC CLIPPER. MEINHARD H. KOTZEBUE, Tulsa, Okla., assignor of one-half to George S. Berry and one-half to L. N. Butts, both of Tulsa, Okla. Filed Mar. 16, 1920. Serial No. 366,221. 2 Claims. (Cl. 172—126.)



1. An actuating mechanism including solenoid winding, a plunger coacting with said winding, a plurality of magnetic elements constituting a pole piece, said elements being substantially of U-shape and embracing the winding interiorly to coact with the plunger and also embracing the winding exteriorly thereof, and a washer exteriorly of the winding to which said elements are secured exteriorly of the winding, whereby a substantially closed magnetic circuit through the plunger is provided.

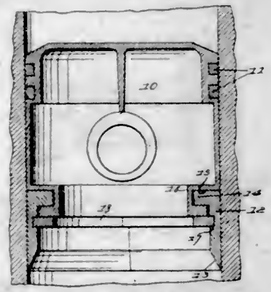
1,469,655. STEERING-WHEEL LOCK. GABRIEL L. LUKENS, Decatur, Ill., assignor to John Moister, De Land, Ill. Filed Dec. 20, 1921. Serial No. 523,679. 1 Claim. (Cl. 70—129.)

A device for the purpose set forth comprising a combined coupling and supporting element including a curved split body adapted to be connected to a steering column below a steering wheel and having projecting therefrom a pair of laterally extending spaced parallel rectangular plates, a pivot having its ends mounted in said plates at the upper portion thereof and spaced from said body, a circular head shiftably mounted on said pivot and having the lower part of its edge formed with a plurality of teeth, an arm integral with the upper portion of the head and projecting outwardly from said plates and having its outer terminus provided with



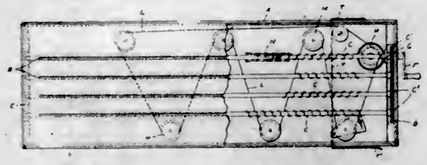
an upwardly extending yoke-shaped head for the reception of a spoke of a steering wheel to lock the latter, and a key operated locking mechanism secured between the lower portions of said plates and including a normally projected spring controlled latch element engageable with any one of the said teeth for locking said arm to prevent the lowering of the yoke to release the steering wheel.

1,469,656. PISTON FOR INTERNAL-COMBUSTION ENGINES. MARTIN H. LUTZ, Jr., Nelsonville, Ohio. Filed May 23, 1922. Serial No. 563,055. 2 Claims. (Cl. 74—109.)



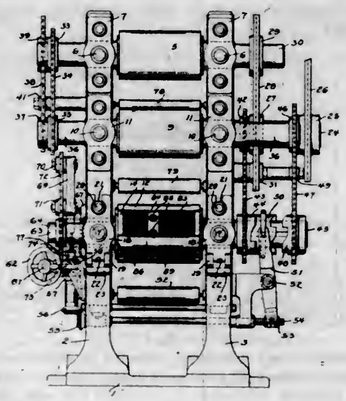
1. The combination with a piston of an expansion oil ring carried by and projecting beyond the inner end of the piston with its peripheral surface in contact with the wall of the cylinder, and an expansion holding ring frictionally seated within the oil ring in contact with the inner end of the piston.

1,469,657. APPARATUS FOR PLAYING RACE GAMES. JOHN CARLISLE POMEROY MAGWOOD, London, England. Filed June 18, 1923. Serial No. 646,207. 4 Claims. (Cl. 46—56.)



1. In a race game, a plurality of propelling members adapted for continuous operation, a plurality of game pieces, independent coupling means between the game pieces and the propelling members for advancing the game pieces, and variably operable uncoupling means for independently disconnecting the game pieces from the propelling members.

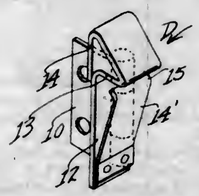
1,469,658. CALENDER. JOHN A. MCCROHAN, New Haven, Conn., assignor to L. Candee & Company, New Haven, Conn., a Corporation of Connecticut. Filed Nov. 3, 1922. Serial No. 598,704. 15 Claims. (Cl. 18—2.)



7. In a calendering machine, a calender roll, a pair of removable calender rolls adjacent thereto, reversible drive means for said first roll, and means whereby either of said pair of rolls may be driven from the first roll while the other is being removed and exchanged.

8. In a calendering machine, a pair of cooperating calender rolls, a third calender roll, means for driving it from either of said first rolls, a pair of engraved calender rolls on either side of said third roll, and means for driving either of said engraved rolls from said third roll.

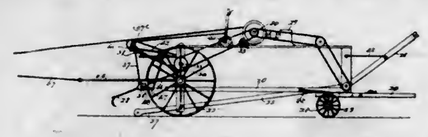
1,469,659. WINDOW-SASH STOP. WILLIAM G. MCGUIRE, Hollywood, Calif. Filed July 10, 1922. Serial No. 573,768. 1 Claim. (Cl. 292—194.)



In a device of the character described, the combination with the upper and lower sashes of a window, of a base plate detachably secured to the upper sash, and means hingedly connected to said plate for retarding the upward movement of the lower sash, said means comprising a vertically disposed locking plate terminating in a curved upper extremity adapted to be moved into and out of locking relation with the lower sash, and a spring metal plate riveted to said locking plate adjacent the lower extremity thereof, substantially as and for the purpose described.

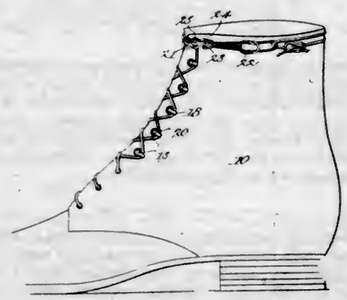
1,469,660. MANURE LOADER. LORENZ L. MEYER, Wentworth, S. Dak. Filed Aug. 26, 1921. Serial No. 495,623. 3 Claims. (Cl. 198—10.)

1. A manure loading apparatus having a wheel supported frame, a conveyor having terminal shoe and elevator portions, a fork arranged in operative relation with the feed end of the shoe for drawing material into position upon the shoe, and means for operating said fork



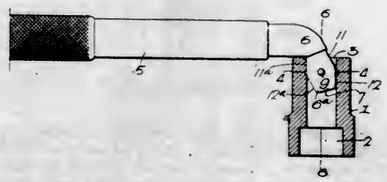
including a crank with which the staff of the fork is connected, a guide sleeve for the staff, and means for varying the position of said sleeve.

1,469,661. LACING MEANS FOR BROGUES, LEGGINGS, AND THE LIKE. TOSUKE MIGITA, New York, N. Y. Filed Feb. 6, 1922. Serial No. 534,521. 3 Claims. (Cl. 24—140.)



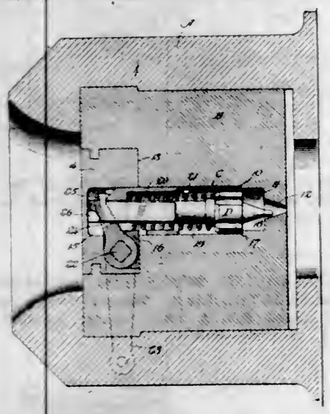
1. In a shoe having a plurality of lace guiding elements, a member provided with a pair of apertures and a hook portion, a lace passing through said guiding elements and having the free ends passed through the apertures in said member, a ring connected with the free ends of said lace, and means connecting said lace with said hook portion for varying the length of said lace.

1,469,662. SOCKET WRENCH. GEORGE O. LEOPOLD, Philadelphia, Pa., assignor to North Bro.'s M'f'g Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 10, 1922. Serial No. 542,661. 2 Claims. (Cl. 81—121.)



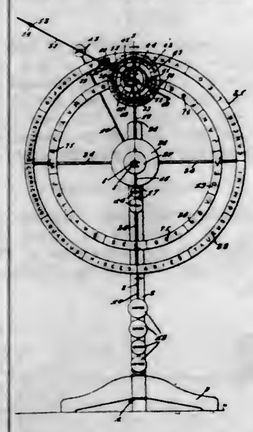
1. The combination in a socket wrench, of a socket having a rectangular opening therein; a handle having a head portion set at an angle; and yielding pivots in the head arranged to enter recesses in the socket, said head portion being of a size to fit laterally in the socket and having angular faces above and below the pivots arranged to bear against the walls of the socket when the handle is moved to either of its two extreme positions.

1,469,663. FIRING MECHANISM. ABNER Y. LEECH, Jr., Washington, D. C. Filed Dec. 26, 1922. Serial No. 609,038. 11 Claims. (Cl. 89—27.)



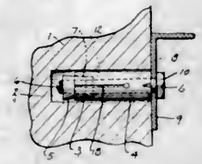
11. The combination with a plunger; of mechanism for effecting projection and retraction of the plunger, a detent into engagement with which the plunger is laterally movable, when in a retracted position, under the influence of another element of the mechanism and disengageable from said detent by direct action of still another element of said mechanism.

1,469,664. PLANISPHERE. GEORGE S. KYLE, deceased, late of Chambersburg, Pa.; by Sarah E. Kyle, administratrix, Chambersburg, Pa. Filed Nov. 1, 1922. Serial No. 598,362. 7 Claims. (Cl. 35—3.)



1. In a device of the class described a support; a sun member mounted thereon; a first arm mounted to swing on the support; an earth member carried by the first arm and movable therewith about the sun member; a second member mounted to swing on the first arm; a moon member carried by the second arm and movable therewith about the earth member; a locator mounted to swing on the first arm with the axis of rotation of the earth member as a center, the moon member being movable into direct alinement with the locator; and a dial journaled for rotation with the axis of the earth member as a center and having markings adapted to be brought into coincidence with the locator when the dial is rotated.

1,469,665. BOLT ANCHOR. HENRY W. PLEISTER, Westfield, and JOHN KARITZKY, Garwood, N. J.; said Pleister assignor to Henry B. Newhall and said Karitzky assignor to Henry B. Newhall, as executor of Henry B. Newhall, sr., deceased. Original application filed June 17, 1922, Serial No. 569,129. Divided and this application filed June 2, 1923. Serial No. 642,930. 7 Claims. (Cl. 85—24.)



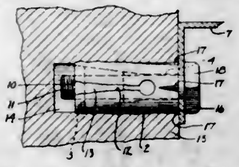
1. A bolt anchor comprising a ductile shield having a plurality of expansible parts having integral weakened connection and provided with a tapered and cylindrical face having a stop between the two bores and an expanding member adapted to cooperate with the tapered bore and with said stop.

1,469,666. BOLT ANCHOR. HENRY W. PLEISTER, Westfield, and JOHN KARITZKY, Garwood, N. J.; said Pleister assignor to Henry B. Newhall and said Karitzky assignor to Henry B. Newhall, as executor of Henry B. Newhall, sr., deceased. Filed June 17, 1922. Serial No. 569,129. 9 Claims. (Cl. 85—2.4.)



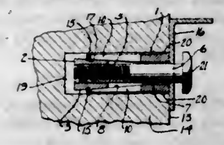
1. A new article of manufacture comprising a ductile shield having a plurality of separated parts connected together and provided with a tapered bore and a cylindrical bore there being a shoulder between the two bores.

1,469,667. BOLT ANCHOR. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry B. Newhall. Filed Jan. 4, 1922. Serial No. 526,921. 7 Claims. (Cl. 85—2.4.)



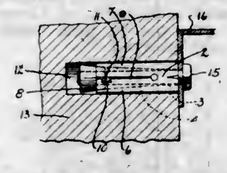
1. A bolt anchor comprising a ductile compressible shield having an axial bore greater in diameter at one extremity, the shield provided on its exterior with grooves extending from its expanding end towarda its non-expanding end, and a cone shaped nut frictionally engaged in the interior of the shield at its expanding end.

1,469,668. BOLT ANCHOR. JOHN KARITZKY, Garwood, N. J., assignor to Henry B. Newhall executor of Henry B. Newhall, sr., deceased. Filed Apr. 12, 1922. Serial No. 551,890. 7 Claims. (Cl. 85—24.)



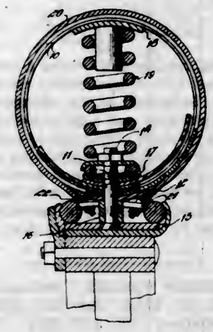
1. An assembled bolt anchor comprising an expansible ductile shield provided with compressible ductile locking means to engage with and hold expanding means, expanding means mounted in the ductile shield and having means to cooperate with the compressible ductile locking means, so that the parts will not become separated in handling storage and transportation.

1,469,669. BOLT ANCHOR. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry B. Newhall, formerly known as Henry B. Newhall, jr. Filed Apr. 12, 1922. Serial No. 552,050. 7 Claims. (Cl. 85—2.4.)



1. A new article of manufacture comprising a shield having an integral body member and a plurality of tines extending from said body member, said tines having one or more sets of interlocking bendable or breakable engaging members adapted to hold the tines together and also hold an interposed expanding member, for handling, storage and transportation and an interposed expanding member.

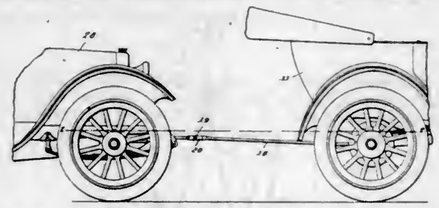
1,469,670. TIRE. GEORGE H. W. LINDHORST, Grace, Mont. Filed Oct. 27, 1922. Serial No. 597,339. 2 Claims. (Cl. 152—8.)



1. The combination with a tire carrying rim, of a tire including a circumferential series of elements projecting from the rim, a casing made up of a plurality of metallic members arranged end to end, each member being of annular formation and split, the adjacent ends of each member being notched to receive the adjacent element projecting from the rim, with said ends overlapped, coiled springs arranged within the tire casing and a non-metallic casing covering the metallic casing.

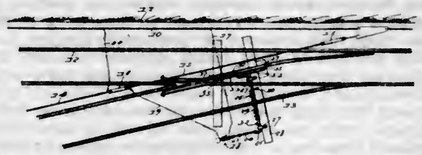
1,469,671. COUPLING. ADIEL O. LILE, Corbin, Kans. Filed May 24, 1920. Serial No. 383,861. 1 Claim. (Cl. 280— 33.15.)

A towing device of the character described comprising a yoke designed to be secured to the rear axle housing of a towing vehicle, a link having a bifurcated end pivotally secured intermediate the ends of the yoke, a bar pivotally secured to the opposite end of the link and being provided with an enlarged portion formed intermediate its ends, said enlarged portion having an opening and being arranged adjacent a slot formed in the link, a slotted member having an angled end pivotally secured to the opposite end of the arm, a clip secured to the steering rod of the towed vehicle, a stem rising from the clip and being adapted to be slidably mounted in the slot in the slotted member, a rod member, a trunnion rising from one end of the member and being received in the opening of an enlarged portion, an extension formed on the opposite arm of the rod member, C-shaped clamps carried by each



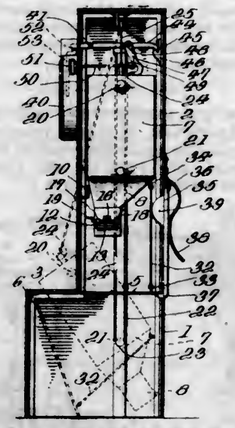
end of the extension and being adapted to be secured to the front axle of the towed vehicle and an angled member adapted to be detachably secured in the slot of the bar as and for the purpose specified.

1,469,672. CAR-CONTROLLED TROLLEY-LINE CUT-OUT. JOHN H. MILLER, MacDunn, W. Va. Filed Oct. 5, 1922. Serial No. 592,660. 6 Claims. (Cl. 191—8.)



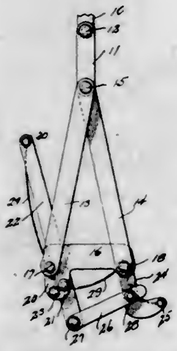
1. The combination with the main and branch tracks of a mine, each having a trolley conductor disposed above and to one side thereof, of a normally dead section of trolley conductor interposed in the conductor of the branch track, and car controlled connections between the main trolley conductor and the normally dead section.

1,469,673. AUTOMATIC SUGAR SACKER. ELZA H. MORAINE, Guthrie Center, Iowa. Filed July 3, 1922. Serial No. 572,698. 7 Claims. (Cl. 211—6.)



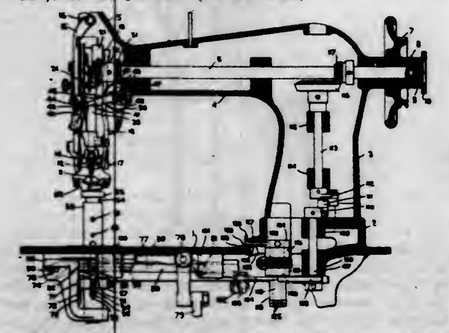
6. In a device of the class described, the combination of a cabinet having a tower, and a base, a bin in said cabinet having an upper filling opening and a lower discharging nozzle, means for raising said bin into said tower to permit the discharge of contents of said bin and for lowering said bin into said base to fill the same, and means for weighing said bin and contents when in raised position.

1,469,674. COMBINATION CHAIR, SWING, AND HAMMOCK. AUSTIN D. MOSS, Sistersville, W. Va. Filed Sept. 14, 1920. Serial No. 410,097. 1 Claim. (Cl. 155—68.)



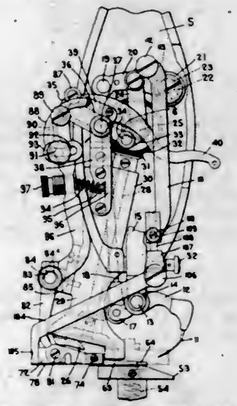
A swing chair comprising spaced side arm members, said members having angularly disposed end portions of different lengths, the shorter end portions being at the rear of the chair structure and downwardly disposed, carrying members of equal length pivotally connected together at their upper ends and having their lower ends spaced apart and pivotally connected with the end portions of the longer ends of the side arm members at equal distance below the upper edges thereof, a back frame pivotally connected at a point between its upper and lower ends to the lower portions of the shorter ends of the side arm members and at points below the points of connection between the carrying members and the side arm members, a transverse rod connected with the shorter ends of the side arm members and bridging the space between said members and lying under the intermediate portion of the back frame, L-shaped foot rest members pivoted to the forward ends of the longer end portions of the side arm members, links pivoted at one end to the lower end of the back frame and pivoted at their other ends to the foot rest members at a point between the ends of the latter, and a strip of fabric material connected at one end with the lower forward ends of the foot rest members and at its other end with the upper rear portion of the back frame and having its intermediate portion attached to the transversely disposed rod.

1,469,675. WORK-PRESENTING MECHANISM FOR SEWING MACHINES. HARLEY C. MOULTON, Dorchester, Mass., assignor, by mesne assignments, to Lawrence M. Stein, Chicago, Ill. Filed Oct. 20, 1919. Serial No. 332,025. 24 Claims. (Cl. 12—178.)



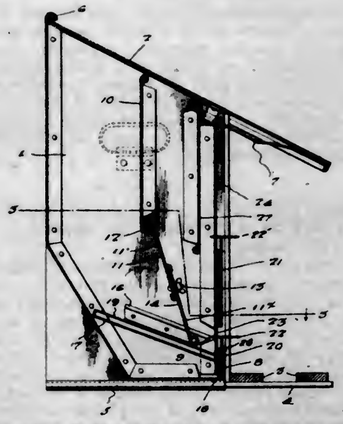
10. In a sewing machine comprising a bed plate having an upwardly extending hollow boss having a slotted wall, a standard having an overhanging arm mounted on said boss, a bracket mounted within said boss having a vertical bearing, a shaft rotatably mounted in said bearing having an eccentric stud, a bender, a bender actuating lever mounted on said stud, means connecting said lever to said bender, a supporting collar fixed on said shaft having an arm extending through the slotted wall in said boss, means for securing said arm in adjusted positions, and means for oscillating said bender actuating lever.

1,469,676. FEEDING MECHANISM FOR SEWING MACHINES. HARLEY C. MOULTON, Dorchester, Mass., assignor, by mesne assignments, to Lawrence M. Stein, Chicago, Ill. Filed Oct. 20, 1919. Serial No. 332,026. 24 Claims. (Cl. 11—178.)



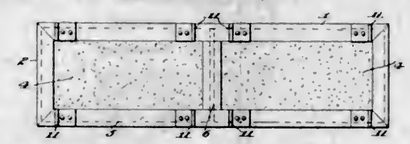
12. In a sewing machine comprising a bed, an overhanging arm and head and stitch forming mechanism including mechanism including needle actuating mechanism and a take up carried by said head, a feed dog, a feed dog supporting lever pivotally connected to said feed dog fulcrumed on said head, means for actuating said lever from said take up to give a forward and backward movement to said feed dog, an arm rigid with said feed dog pivotally connected to said needle actuating mechanism and operable by the latter to impart up and down movement to said feed dog.

1,469,677. CHICKEN FEEDER. FREDERICK B. NAYLOR, Allentown, N. J. Filed Mar. 12, 1923. Serial No. 624,486. 5 Claims. (Cl. 119—53.)



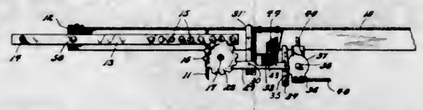
5. A poultry feeder of the class described comprising a hopper, a trough part, a vertically adjustable lower gate associated with the front of the trough part, a vertically adjustable upper gate arranged above the lower gate, a telescopic flap hingedly connected with the lower edge of the front wall of the feed chamber, an inclined guide for the lower part of the flap, a wire frame covering the trough part and located below the flap and a second frame slidably mounted on the first frame.

1,469,678. CONCRETE WALL BLOCK. JOHN NEWELL, Scarsdale, N. Y. Filed July 11, 1922. Serial No. 574,133. 6 Claims. (Cl. 72—20.)



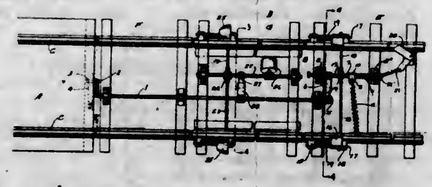
1. A building block comprising a marginal frame of metal having an inwardly extending flange at right angles to the latter around one edge of thereof, and a filling of plastic material inclosed in said frame and abutting against said flange, said plastic filling being flush with the outer face of said flange.

1,469,679. FENDER. MONTE W. NEWHARD, Reading, Pa., assignor of one-half to Adam Bachert, Reading, Pa. Filed May 15, 1920. Serial No. 381,567. 3 Claims. (Cl. 180—83.)



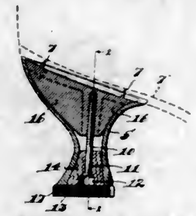
1. The combination with a motor driven vehicle having brake mechanism and a fuel supply connection, of a rearwardly movable spring influenced fender, a rotatable shaft journaled transversely of the vehicle underframe, toothed wheels on the shaft and having operative connection with the fender and adapted to be moved in a clockwise direction thereby, other toothed wheels on said shaft having operative connection with forwardly movable rack bars connected to the service brakes, a ratchet wheel on said shaft, a spring influenced pivoted lever movable by said ratchet wheel for closing the fuel supply connection, and means for locking said fuel supply connection in closed position when the vehicle is left unattended.

1,469,680. FEEDING AND WEIGHING DEVICE. JAMES A. NOLAN, Bowerston, Ohio. Filed Apr. 25, 1923. Serial No. 634,617. 9 Claims. (Cl. 104—253.)



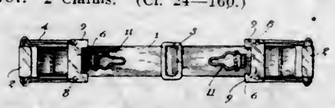
1. In an apparatus of the character described, in combination with a dump including a track section for reception of a car and an approach track leading to the dump, said approach track including a relatively movable section, means for holding a trip of cars above the movable section, means for holding a car on said section, means for releasing the car on said movable track section when the dump is returned to loading position after a dumping operation, said means releasing the car holding means on the movable track section and permitting resetting thereof and also releasing the trip of cars above the movable section upon movement of the dump into dumping position, means for setting the car trip holding means, and means for disconnecting said trip holding means from the releasing means when a predetermined number of cars have been fed onto said movable track section.

1,469,681. METAL HEEL. WILLIAM NOLL, Chicago, Ill., assignor to Noll Aluminum Heel Co., a Copartnership consisting of Vernon F. Bloom, William Noll, and John Noll, Chicago, Ill. Filed Sept. 25, 1919. Serial No. 326,186. 2 Claims. (Cl. 36—40.)



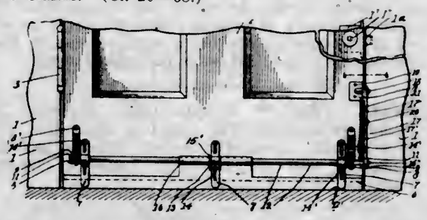
1. A heel comprising a hollow shell flared at its upper and lower extremities, an upper securing member adapted to lie within the upper end of the shell and provided with a plurality of laterally extending webs adapted to contact the interior of said shell, and a lower securing member within the lower end of the shell, said upper securing member adapted separately to be secured to the rear of a shoe, and means for drawing said two securing members together to position and hold said heel, and a wearing piece adapted to be detachably secured to said lower securing member.

1,469,682. TROUSERS SUPPORTER. THOMAS J. NORTH, Louisville, Ky. Filed Oct. 25, 1922. Serial No. 596,787. 2 Claims. (Cl. 24—160.)



1. A buckle, including a frame member, a pair of prongs pivoted to one end of said frame member, a keeper pivoted to the opposite end of the frame member, and means carried by said keeper and adapted to be engaged by a belt or the like for holding the keeper in contact with the prongs.

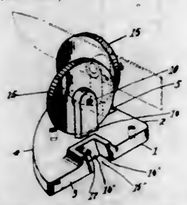
1,469,683. DOOR ATTACHMENT. AXEL OLSON and ALFRED HAST, St. Paul, Minn.; said Hast assignor to said Olson. Filed Apr. 17, 1922. Serial No. 554,311. 5 Claims. (Cl. 20—68.)



1. In a structure of the class described, a combination with a door and the door frame therefor having a rabbet to receive the door, of vertically disposed toothed racks fixed in horizontal alinement on the door, a shaft, gears fixedly carried by said shaft in mesh respectively with said racks, a closure plate supported by said shaft, keepers for guiding said shaft to hold said gears in mesh with said racks, said keepers mounted to slide to a predetermined degree to

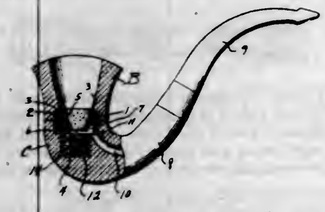
limit the upward movement of said plate, and a collapsible knee having means whereby to be yieldingly held in normal collapsed state, said knee being pivotally connected at its upper end to the door and at its lower end to said shaft, the joint of said knee being normally located over the outer edge of the door to engage with the door frame in a closing movement of the door to cause said knee to straighten out when the door is seated in the rabbet of the frame.

1,469,684. KNIFE SHARPENER. AXEL OLSON and ALFRED HAST, St. Paul, Minn.; said Hast assignor to said Olson. Filed Apr. 17, 1922. Serial No. 554,312. 4 Claims. (Cl. 76—87.)



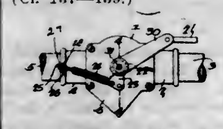
1. In a device for sharpening knives, in combination, a base, a pair of steel disks each of uniform diameter and having flat sides to form peripheral knife sharpening corners at the juncture of the periphery with said sides, said disks being mounted and arranged on said base to be normally rotatable, respectively, in vertical planes at right angles to each other, and have the inner peripheral knife sharpening corner of one disk flush with the outer peripheral knife sharpening corner of the other disk, the mounting of said disks including a supporting post for each disk located respectively on the outer side of each of said disks.

1,469,685. SMOKING PIPE. RICHARD E. PERKINS, Boston, Mass. Filed June 22, 1921. Serial No. 479,622. 4 Claims. (Cl. 131—12.)



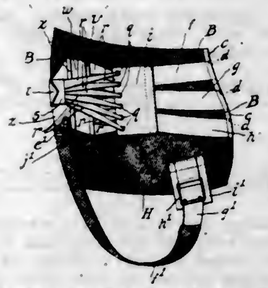
2. A pipe of the class described comprising a bowl consisting of two separable sections, an internal coupling sleeve coacting with said sections for holding the same in assembled relation, a collar of infusible material snugly fitting within the sleeve and spaced from the bottom of the bowl, and a stem carried by one of the sections of the bowl and having a draft opening in communication with the bowl below the applied collar.

1,469,686. CUT-OUT MECHANISM. NICHOLAS A. PETRY, Philadelphia, Pa. Original application filed Apr. 10, 1917, Serial No. 161,009. Divided and this application filed Apr. 24, 1920. Serial No. 376,225. 4 Claims. (Cl. 137—139.)



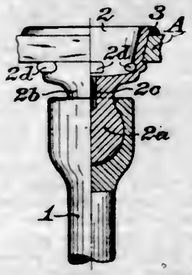
1. In a valve operating device, the combination of a valve stem; an operating arm mounted upon the valve stem; and a coil spring operative on said arm and terminating in a screw stem; a lug through which the stem passes; a projection on said lug; and a nut engaging the screw stem and normally held from turning by said projection.

1,469,687. ABDOMINAL SUPPORT. HATTIE M. PFALTZGRAFF, Atlantic City, N. J. Filed Jan. 6, 1920. Serial No. 349,700. 8 Claims. (Cl. 2—188.)



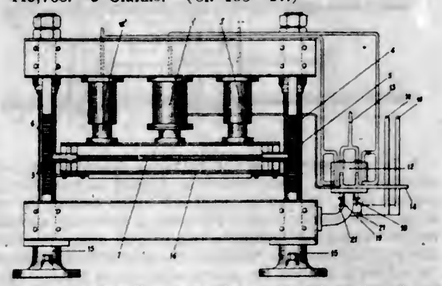
8. An abdominal support comprising a main belt, a second belt overlying said main belt in front, means co-acting with both belts for placing them under tension, and leg straps attached at one end to said second belt and at their opposite ends attached at the rear to said main belt.

1,469,688. STAY BOLT FOR STEAM BOILERS. ARTHUR F. PITKIN, Schenectady, N. Y. Filed Feb. 6, 1923. Serial No. 617,200. 3 Claims. (Cl. 85—1.5.)



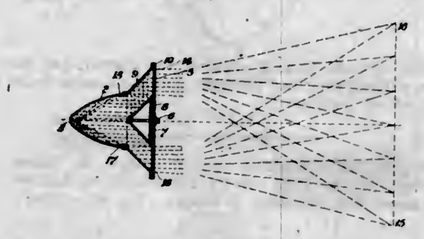
1. In a stay bolt structure, the combination of a bolt, having a socketed head; and a sheet plug articulated thereto, said plug having an annular wall, on which there is formed a plurality of peripheral swells or projections, adapted to bear against the sides of a boiler sheet.

1,469,689. HYDRAULIC PRESS. JOSEPH SEGIMON PRIUS, Barcelona, Spain. Filed Nov. 14, 1919, Serial No. 338,128. Renewed Mar. 5, 1921. Serial No. 449,768. 3 Claims. (Cl. 138—17.)



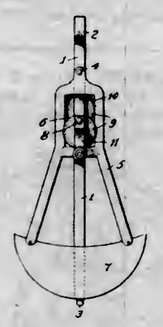
1. In a hydraulic press, the combination of a frame, a plurality of cylinders mounted thereon, pistons movably mounted in the cylinders, a platen slidably mounted in the frame and connected with the pistons, stationary members and connected rotatable members, adapted to engage the stationary members, one set of said members being mounted on the frame and the other set of members on the platen and movable therewith.

1,469,690. LAMP, SEARCHLIGHT, AND THE LIKE. JOHN GEORGE SMITH, Muswell Hill, London, England. Filed Mar. 9, 1923. Serial No. 623,986. 3 Claims. (Cl. 240—41.)



1. A light projector comprising a parabolic reflector, a frusto conical reflector at and around the open end of the parabolic reflector and attached thereto and a conical reflector arranged coaxially of the parabolic and frusto conical reflectors and in the latter and also forming an obturator, the surface of said conical reflector and obturator being parallel with the inner surface of the frusto-conical reflector and the apex of said conical reflector and obturator being presented toward the smaller end of the parabolic reflector.

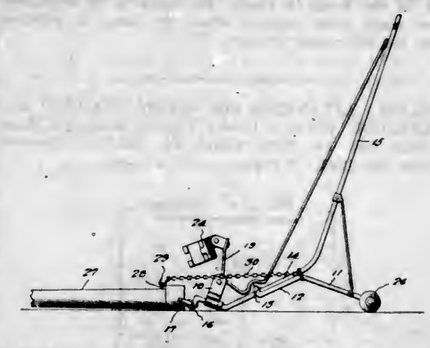
1,469,691. CUTTER OR MIXER. MARY P. SODERBERG, Portland, Oreg. Filed Apr. 1, 1922. Serial No. 548,613. 4 Claims. (Cl. 259—12.)



1. A device of the character described comprising a support, frames pivoted to opposite sides of the support, each having an opening therein, a blade secured to each frame, a shaft rotatably mounted in the support, oppositely disposed eccentrics secured to the shaft and operating in the openings in the frame to impart swinging movement thereto in opposite directions, and flanges on the eccentrics to engage the outer faces of the frames.

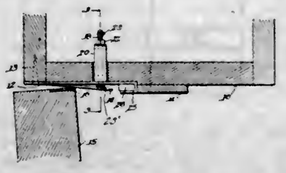
1,469,692. ARTICLE SUPPORT. JOHN SOLTIS, Detroit, Mich. Filed Jan. 18, 1921, Serial No. 438,199. Renewed Apr. 16, 1923. 2 Claims. (Cl. 280—61.)

1. An article support of the character described comprising a wheeled frame, a stationary arm associated with said frame and having angularly disposed branches, a yoke swiveled on one of said branches, a second arm including angularly disposed branches for connecting the first mentioned arm for movement thereto, and



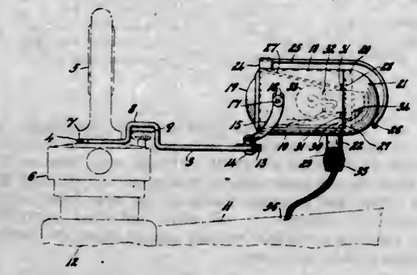
a sectional band carried on the branch of the second mentioned arm and arranged in juxta-position within said yoke for the purpose specified.

1,469,693. DOORCHECK. VIRGIL ST. CLOUD, Raleigh, N. C. Filed Dec. 26, 1922. Serial No. 608,927. 10 Claims. (Cl. 16—82.)



1. A door check comprising a base plate having an opening therein, a tongue projecting laterally beyond the outer face of said plate and adapted to fit in said opening, an outwardly bent recessed flange formed integrally with one end of said plate, an elastic bumper secured in said recess, and a variable spring actuated means secured to said tongue and supported by said plate for regulating the lateral projection of the tongue.

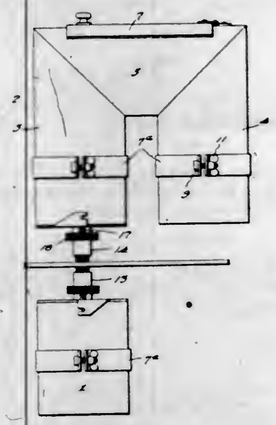
1,469,694. MOTOR-METER-ILLUMINATING DEVICE. PHILIP W. PULIG, Philadelphia, Pa. Filed June 21, 1922. Serial No. 569,059. 1 Claim. (Cl. 240—2.)



A motormeter lamp for automobiles comprising in combination with a motormeter, a horizontally disposed support having an aperture at one end thereof for pivotal attachment to the motormeter, a bifurcated bracket pivotally mounted on the other end of said support, the said bracket comprising rearwardly inclined arms having slotted portions at the upper ends thereof, screw clamp bearings carried by the lamp and adapted to be received into said slots for adjustably positioning the lamp with respect to the support, and a

J-shaped spring having one end thereof fixed to one end of the lamp and the other end embracing the other end of the lamp to enable the lamp to be supported from some other support when the lamp is removed from the bifurcated bracket.

1,469,695. APPARATUS FOR OILING STAMPED MATERIALS. WILLIAM LOVELL PULSON, Randolph, Mass. Filed Dec. 14, 1920, Serial No. 430,734. Renewed June 28, 1923. 2 Claims. (Cl. 91—38.)



1. Apparatus for oiling metals, comprising a lower oil container, an upper casing of inverted U-shape having a well and an upper connecting portion and a hollow portion pendent from said connecting portion, wick tubes in the container and said pendent portion of the U-shaped casing, wick carriers movable in said tubes, wicks in the wick carriers, the wick complementary to the U-shaped casing having a portion pendent in the well of the casing, and means to adjust each wick carrier independently of the other.

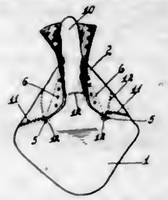
1,469,696. COMBINATION TOOL. NIKLAS RAEZ, St. Joseph, Mo. Filed Feb. 21, 1921. Serial No. 446,687. 2 Claims. (Cl. 294—43.)



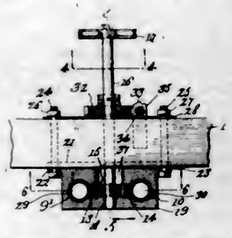
1. An implement of the class described comprising a pair of pivotally connected lever jaws with the ends on one side of the pivot angularly arranged with reference to the ends on the other side of the pivot and parallel to each other, the gripping faces of the two jaws being spaced apart adjacent to the pivot and there provided with coacting matching recesses spaced from the outer meeting ends of the jaws.

1,469,697. SHOE. REINHOLD J. REIM, Hayward, Calif., assignor of one-half to Franz Xaver Jaegel, Hayward, Calif. Filed Feb. 8, 1922. Serial No. 535,099. 2 Claims. (Cl. 36—45.)

2. In a blucher shoe, a vamp, quarters having eyelet members, the vamp being provided with a pair of notches in its upper edge into which extend the lowermost points of the eyelet members, and a counter lining formed with tongues on its upper forward corners, said eyelet members, said vamp, and said tongues being sewed together around said notches, the upper edges of said vamp extending over the forward edges of the quarter, and the edges of the quarter and the vamp, and the counter lining being sewed together.

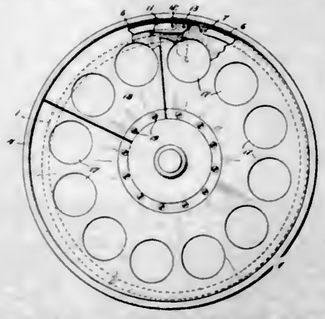


1,469,698. ADJUSTABLE AXLE. JOHN B. RILEY, Ridgely, Tenn. Filed July 28, 1921, Serial No. 488,205. Renewed Dec. 12, 1922. 3 Claims. (Cl. 301—128.)



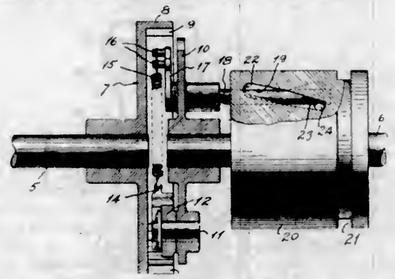
1. In a cultivator, the combination of a pair of axle sections having their adjacent ends extending side by side in substantially parallel relation, sleeves receiving the adjacent ends of said sections, said sleeves having racks thereon, a pinion meshing with the racks, and means supporting the pinion whereby the pinion may be turned, substantially as described.

1,469,699. DISK WHEEL. LOUIS E. SHAW, East Orange, N. J., assignor to Williams Motors Inc., New York, N. Y., a Corporation of Delaware. Filed May 10, 1921. Serial No. 468,225. 5 Claims. (Cl. 301—64.)



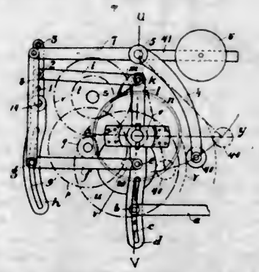
5. A disk wheel consisting of two complementary disk members and means for holding said members to each other, comprising an inwardly turned flange on each disk member forming the contact surface with the other member, a U-shaped open ring attached to the flanges of both disk members at one of its ends, and means attached to the other end of said ring and cooperating with both disk flanges for expanding said ring to couple the flanges of both disk members throughout their periphery and for holding said ring in expanded position, one of said members having a removable segment located adjacent to the ring end which carries the expansion means to permit the removal of said segment when said ring is only partially expanded, said segment being coupled to the other disk member together with its own disk when said ring is fully expanded.

1,469,700. POWER-TRANSMISSION DEVICE. LEWIS W. SHELDON, Brooklyn, N. Y. Filed Dec. 21, 1920. Serial No. 432,300. 3 Claims. (Cl. 192—43.)



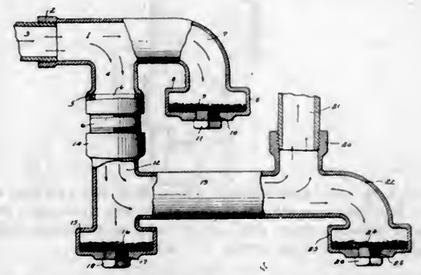
3. A power transmission device comprising a drum and a shaft therefor, a disc associated with said drum and a shaft for said disc, the shafts of said drum and disc being arranged in axial alignment, a second shaft extending through said disc and a movable lever upon said second shaft, a pin entering said disc and a rockable member upon said pin, teeth within said drum and teeth upon the ends of said rockable member adapted to engage the teeth of said drum and a spring at each side of the axial center of said disc and connecting the rockable member with the said lever and means for changing the position of said lever to cause said springs to rock said rockable member.

1,469,701. LETTING-OFF MECHANISM FOR LOOMS. WILHELM SIMMCHEN, Aussig-Kleische-on-the-Elbe, Czechoslovakia. Filed Aug. 27, 1921. Serial No. 495,956. 3 Claims. (Cl. 139—107.)



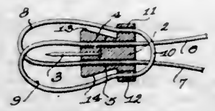
1. Letting-off mechanism for looms comprising in combination a warp beam, a ratchet feed wheel and an actuating lever therefor carrying the pawl for said wheel, a train of gears, whereby said feed gear rotates the warp beam, a spring controlled brake acting on said feed gear and comprising a spring actuated U-shaped member frictionally bearing against said ratchet wheel, a vibratory primary actuating lever having a slot for finely adjustably connecting it with a suitable driving member of the loom, a second intermediary slotted vibratory lever, coarsely adjustable means for connecting said second lever to the feed gear actuating lever, a feeler lever in contact with the warp on the warp beam and movable in accordance with the amount of warp on the beam and means controlled by said feeler lever adjustably connecting the primary actuating lever with said second lever for the purpose of controlling the delivery speed of the warp beam in accordance with the decreasing diameter of the warp thereon, to maintain the warp at a uniform tension and to permit a coarse and a fine preliminary adjustment of said ratchet gear for adjusting the weft density.

1,469,702. AIR-CLEANING ATTACHMENT FOR AUTOMOBILE CARBURETORS, AIR COMPRESSORS, AIR-BRAKE SYSTEMS, ETC. GEORGE M. SPENCER, St. Louis, Mo. Filed Mar. 17, 1921. Serial No. 453,193. 6 Claims. (Cl. 183—75.)



1. An air cleaning attachment for carburetors, air compressors, air brake systems, and the like; comprising a straight horizontally disposed momentum chamber to convey air without undue friction thereof with the internal walls of said chamber; an outlet directed downwardly from said momentum chamber, intermediate its ends, said momentum chamber terminating in a downwardly curved deflecting chamber for massing the heavier particles of dirt and dust against the outer wall thereof, said deflecting chamber terminating in a receptacle of greater diameter than the diameter of said deflecting chamber into which the separated dirt and dust is carried and deposited by its momentum past the said outlet and a removable closure plug for the bottom wall of the enlarged receptacle.

1,469,703. BAG SEAL. NORWOOD V. STANSFIELD, Baltimore, Md. Filed June 19, 1922. Serial No. 569,434. 1 Claim. (Cl. 292—308.)



A bag seal comprising a solid seal body, and a fastening cord looped about the bag and passing longitudinally through the seal body, said seal body having side walls converging outwardly away from the inner end of the seal body, the outer end of the body having shoulders projecting beyond the ends of the side walls, to hold the cord in exposed position along said converging walls, substantially as described.

1,469,704. CUSPIDOR. JOHN STRAUB, Ashley, N. Dak. Filed July 13, 1923. Serial No. 651,348. 1 Claim. (Cl. 4—39.)

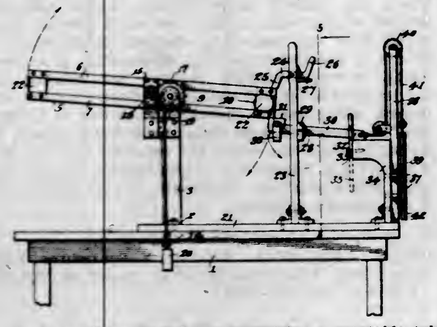
A cuspidor comprising a hollow body formed of an intermediate, a top and a bottom portion, each of said portions being tapered, the taper of the bottom portion extending in opposite direction with respect to the taper of the intermediate portion, said bottom portion having a part of its inner face constituting a valve seat, a shiftable bottom of valvular type normally extending in said bottom portion and engaging said seat for closing said body, said shiftable bottom including a tapered body portion provided at its top with a conoidal-shaped extension, a spring controlled manually shifted rod slidably connected with said body and provided at its lower end

with an angle-shaped extension having one of its legs fixedly secured to the lower face of said shiftable bottom, a laterally extending combined guide and keeper carried



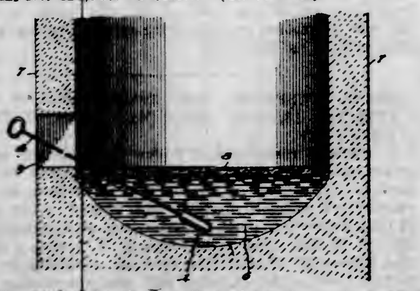
by said body and through which said rod extends, and a laterally extending housing projecting from said body and through which said rod extends, said housing inclosing the controlling spring for said rod.

1,469,705. TOY. WILBUR J. VANWINKLE, Union, N. Y. Filed Aug. 16, 1922. Serial No. 582,242. 4 Claims. (Cl. 46—37.)



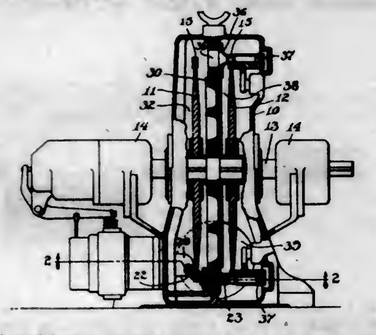
1. A gravity actuated toy comprising a rotatable tube movable about an axis perpendicular to the length of the tube, a ball adapted to roll lengthwise of said tube in alternately opposite directions, an actuating weight for the tube connected thereto, and means for periodically arresting the rotation of the tube at the completion of each half revolution.

1,469,706. METHOD OF TREATING MOLTEN METALS. CALVIN VOS, New York, N. Y. Filed Oct. 6, 1920. Serial No. 414,947. 1 Claim. (Cl. 75—45.)



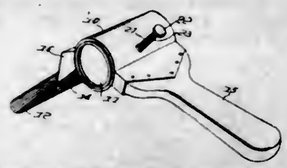
The method herein described of treating molten metal with suitable alloys within a furnace, consisting in forming the alloys into a cylindrical body with a central tapered opening therein, fixedly wedging a suitable tool in said opening, submerging said alloy into the molten metal below the surface of the metal and supporting it therein by means of said tool until the alloy is entirely dissolved, and finally withdrawing the tool from the furnace.

1,469,707. MULTISTAGE TURBINE. HENRY H. WAIT, Anderson, Ind., assignor, by mesne assignments, to Midwest Engine Corporation, Indianapolis, Ind., a Corporation of Delaware. Filed Feb. 14, 1922. Serial No. 536,531. 21 Claims. (Cl. 253—66.)



1. A multi-stage turbine, comprising a casing, a plurality of turbine wheels mounted to rotate together within said casing, a diaphragm located in said casing in each space between adjacent turbine wheels, and return guides mounted in said diaphragm to receive steam from the adjacent higher pressure turbine wheel and re-direct it against such turbine wheel, and circumferentially spaced steam nozzles also mounted on and receiving steam through said diaphragm to discharge against the adjacent lower pressure turbine wheel.

1,469,708. FOUNTAIN BRUSH. GUSTAV WALTERS, Middletown, Conn. Filed Aug. 12, 1921. Serial No. 491,759. 2 Claims. (Cl. 15—131.)



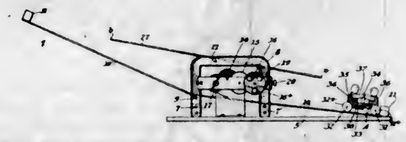
1. A fountain brush comprising a head consisting of a reservoir provided with a handle and with a brush unit opposite the handle, a hopper disposed above the brush unit for the supply of the same periodically with the contents of the reservoir, and a valve controlling communication between the reservoir and the hopper and consisting of a cross bar disposed within the hopper and provided with uniformly spaced tapered valve elements engaging in perforations in the wall between the reservoir and hopper, the stem passing slidingly through said hopper and having one end connected with the cross bar and the other end provided with a head exterior of the hopper and accessible to the end grasping the handle, and resilient means for impelling the stem in one direction to normally dispose the valve elements in seated relation with said perforations.

1,469,709. PROCESS FOR THE PREPARATION OF ARTIFICIAL RESINS AND OLEORESINS. HENRI WUYTS, Brussels, Belgium. Filed Aug. 20, 1921. Serial No. 493,939. 4 Claims. (Cl. 260—2.)

4. A process of preparing terpene phenols, the said process consisting in causing carvene to act upon phenol in equimolecular quantity in the presence of paratoluenesulphonic acid, maintaining the temperature below 105° C., then treating with steam and subsequently exhausting

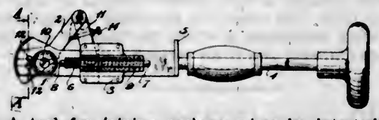
with potassium in the presence of a solvent at a temperature of about 70–80° C. and finally separating the two liquid layers whereby the alkaline liquors obtained yield the terpene phenols on solidification.

1,469,710. MECHANICAL TOY. CHARLES ZABEL, Coraopolis, Pa., assignor to Bruno Zabel, Pittsburgh, Pa. Filed Jan. 24, 1923. Serial No. 614,568. 17 Claims. (Cl. 104—79.)



1. A toy comprising an upper track, a lower track of greater length than the upper track, means for rocking the lower track to alternately elevate opposite ends, and an object adapted to travel in the tracks by gravity, the rocking motion of said lower track in one direction serving to elevate said object to the upper track from whence it rolls to the lower track, the rocking motion of the lower track in the other direction serving to return the object along the lower track to position to be again elevated.

1,469,711. WIRE-JOINING TOOL. SERAPHINE F. BAUWENS, Chicago, Ill., assignor to Wirebounds Patents Company, a Corporation of Maine. Filed June 24, 1920. Serial No. 391,404. 34 Claims. (Cl. 140—118.)



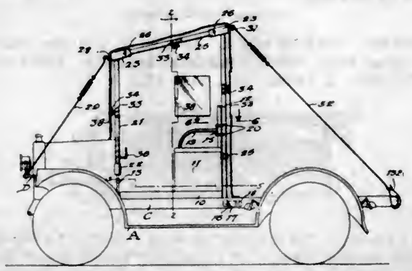
1. A tool for joining package wires by intertwisting comprising relatively movable members to receive and hold the wires side by side, and means to position said members a distance from the package during the operation of the tool whereby rotation of said members will cause the wires to be intertwisted and severed.

1,469,712. PROCESS OF CONSERVING AND REPAIRING CHIMNEYS. FRANK F. BEEBY, Chicago, Ill., assignor to Cement-Gun Construction Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 24, 1919. Serial No. 340,315. 3 Claims. (Cl. 72—93.)



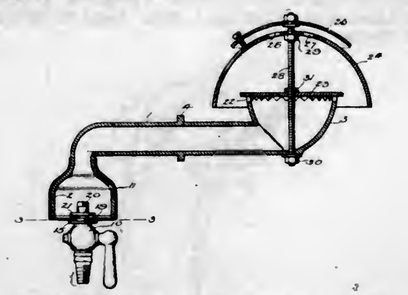
1. The process of constructing about a chimney already in place a second chimney which consists in placing reinforcing about such first chimney, spacing the same from such chimney, mounting such reinforcing upon a foundation at the base of such chimney anchoring said reinforcement to said foundation and placing upon and about such reinforcing and about such first chimney concrete to form such second chimney.

1,469,713. PORTABLE CAB. ERNEST D. BLACKINTON, Groton, and GEORGE E. SMITH, Waterford, Conn. Filed Apr. 5, 1923. Serial No. 630,142. 5 Claims. (Cl. 296—103.)



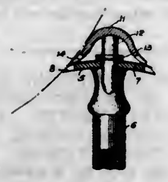
1. A portable cab comprising a baseboard, a seat thereon, a cab frame, means to support said frame, said means including a cross bar at the bottom of said frame having means to secure it to frame bars of a chassis, means to fasten said frame to said seat, and a cover adapted to be supported by said frame.

1,469,714. GAS HEATER. ALBERT T. BROCH, New York, N. Y. Filed Nov. 3, 1922. Serial No. 598,859. 5 Claims. (Cl. 158—99.)



1. A gas heater which includes a conduit to be disposed in a horizontal position, a dependent mixing chamber extending downwardly therefrom having a plate across the bottom thereof and having sector-shaped openings in said bottom plate, a sleeve surrounding said mixing chamber, inwardly extending sector-shaped spring plates on the lower end of said sleeve, and a nozzle extending into said mixing chamber and engaged by the inner ends of said spring plates to hold the nozzle in position.

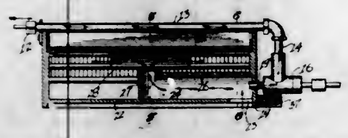
1,469,715. SAFETY RAZOR. ARNOLD S. BREAKEY, East Orange, N. J., and CHARLES F. PIETSCH, Malvern, N. Y. Filed Feb. 2, 1921. Serial No. 441,883. 1 Claim. (Cl. 30—12.)



A safety razor including a plate-seat, a plate depressor, and means for retaining said plate depressor against said

seat, said plate depressor having its body bowed upwardly at a point substantially intermediate its side edges whereby to provide a guide portion adapted to coact with the surface being shaved the under face of said plate depressor being spaced from the upper face of said seat at this point, guide pins secured to the under face of said depressor and adjacent the center portion thereof, said guide pins being adapted to extend into openings formed in said seat, and collars associated with said guide pins and positioned in such a manner as to normally lie adjacent the upper face of said seat.

1,469,716. GAS BURNER. LEMUEL P. COULTER, Huntington Park, Calif. Filed Feb. 18, 1922. Serial No. 537,529. 1 Claim. (Cl. 158—65.)



In a burner, the combination with a casting having an orifice formed therein, of a chamber formed above said orifice and having an outlet therein, a baffle plate mounted above the outlet of said chamber, burner plates movably secured on said casting and having a series of parallel slots formed therein, a trough formed above and between said burner plates, a retort pipe supported above said trough, means for controlling the flow of fuel from said retort pipe to said chamber, and means for pre-heating said control means.

1,469,717. ARCH SUPPORTER. FRANCIS R. CUTTING, Oakland, Calif. Filed May 1, 1922. Serial No. 557,603. 2 Claims. (Cl. 36—71.)

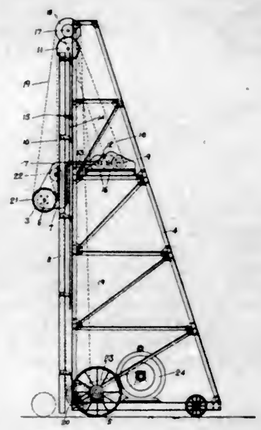


1. In a device of the character described, comprising a heel portion, a filler portion, said filler portion being of substantial thickness at the point of juncture with said heel portion and tapering toward its opposite extremity, an overlying strip secured to said heel portion and said filler portion, said overlying strip having wings formed integral therewith, and a cover for said device as a whole.

2. In a device of the character described, the combination with a resilient heel, of a resilient fiber filler secured to said heel and tapering away therefrom, an overlying strip secured to said heel portion and said filler, wings formed integral with said strip, a cover for said device as a whole, and eyelets extending through said wings and said cover.

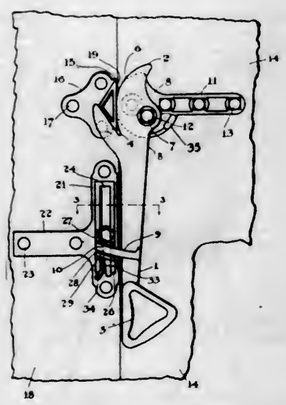
1,469,718. MACHINE FOR CUTTING OR BREAKING DOWN MASSES OF PULVERULENT MATERIAL, SUCH AS ARTIFICIAL MANURE. JAMES DICKSON LAIDLAW, Leith, Edinburgh, Scotland. Filed Sept. 7, 1922. Serial No. 586,624. 2 Claims. (Cl. 262—25.)

1. A machine of the kind as described comprising a portable frame, a substantially vertical track on said frame, a slide for traversing said track, a rotary tool journaled in said slide, a drive pulley on said tool, an idler pulley journaled in said slide and operatively aligned with said drive pulley, an endless belt for driving said pulleys,



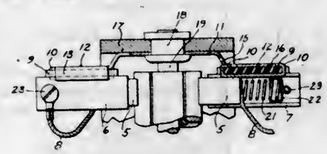
said belt running on fixed pulleys disposed at either end of said track, and means for traversing said slide along said track comprising a winch for hoisting said slide, and gravitational means for returning it.

1,469,719. COMBINATION DOOR FASTENER. ALBERT DOBSON, St. Lambert, Quebec, Canada, assignor, by mesne assignments, to Camel Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 20, 1922, Serial No. 538,035. Renewed Aug. 8, 1923. 3 Claims. (Cl. 292—241.)



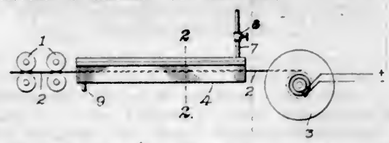
3. In door fastening means, a combined opener and closer pivotally mounted and operating from a handle terminating in an offset grip, a fulcrum member cooperating with said opener and closer, a bracket, a wedge pin slidable therein and a slotted locking bar pin extending into said bracket and rigid with said handle.

1,469,720. BRUSH RIGGING. FARNUM F. DORSEY, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 31, 1921. Serial No. 526,299. 3 Claims. (Cl. 171—324.)



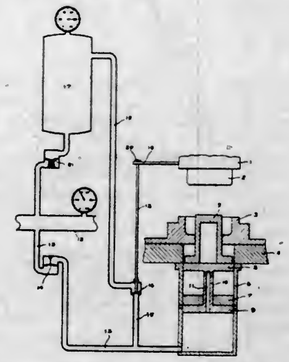
1. Brush-rigging comprising: a flat piece of sheet insulating material; a sheet-metal brush-holder provided with lugs embracing opposite edges of the insulating-material; and a sheet-metal support provided with lugs embracing other opposite edges of the insulating material.

1,469,721. METHOD OF HANDLING HOT METAL STRIP AND APPARATUS THEREFOR. VICTOR E. EDWARDS, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 19, 1919. Serial No. 324,772. 6 Claims. (Cl. 242—78.)



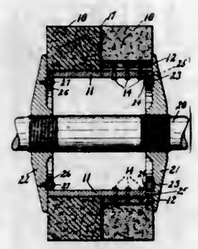
1. The method of handling thin hot metal strip having inherent magnetic properties after its delivery by the finishing rolls of a mill which consists in coiling the strip by magntic means after cooling the forward end below the point of recalescence during its continuous passage between the finishing rolls and the said magnetic means, the remainder of the strip being coiled at substantially the temperature of rolling.

1,469,722. PNEUMATIC PRESS FOLLOWER. WILLIAM R. GORDON, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 18, 1922. Serial No. 554,964. 3 Claims. (Cl. 78—42.)



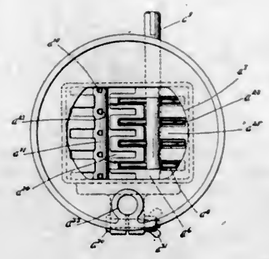
1. In a press-follower, the combination of a cylinder; a piston therein; means for admitting air to the cylinder for raising the piston; a pressure-tank; connections between the tank and the cylinder; and means in said connections for preventing flow of air from the tank to the cylinder during the up-troke of the piston, said means oprating to permit such flow after the completion of the up-stroke.

1,469,723. SEGMENTAL ABRASIVE WHEEL. WALLACE W. GREENWOOD, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 28, 1921. Serial No. 456,094. 6 Claims. (Cl. 51—206.)



1. A grinding wheel comprising a cylindrical drum adapted to be mounted concentrically on the wheel spindle, abrasive segments mounted thereon and forming a cylindrical grinding surface, each of said segments having a projecting lug on an inner portion, and clamping means including a removable wedge to engage said lug with adjustable pressure and replaceably fasten the segment to said drum.

1,469,724. MILL AND PRESS. EDWARD F. HAPPENSACK, Cincinnati, Ohio, assignor to The O. P. Schriver Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 20, 1921. Serial No. 509,147. 9 Claims. (Cl. 146—122.)

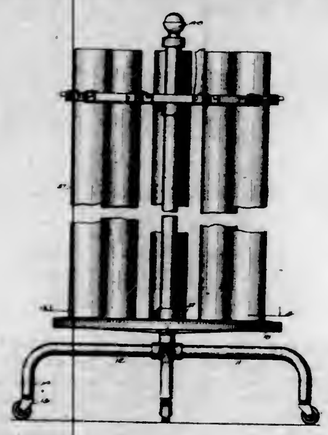


1. In a device of the class described, the combination of a two section casing, the sections of which are hingedly mounted upon one another and which have ways therethrough which may be brought into alignment one with the other, a shearing plate mounted on one of the sections and extending through the way in said section, shafts mounted revolubly upon the last mentioned section and extending through the way, knives mounted on the shafts adapted to cooperate with the shearing plate in shredding fruits, and means to actuate the knives.

1,469,725. DISPLAY STAND. GEORGE J. HELENEK, New York, N. Y. Filed July 3, 1922. Serial No. 572,494. 2 Claims. (Cl. 211—18.)

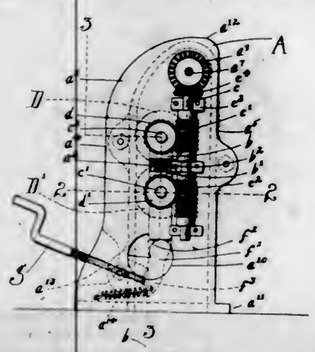
1. A display stand of the character described, comprising a supporting structure, a pair of spaced platforms for receiving and holding articles to be displayed, the upper platform being formed with notches for receiving part of the article while the lower platform is provided a plurality of cups for receiving the lower ends of said articles, a covering of sheet metal having openings for receiving said cups, a plurality of supporting arms for supporting said covering, said supporting arms merging

into a central disk, said central disk having a tubular section formed with its axis arranged at right angles to the plane of the arms, said tubular section having an



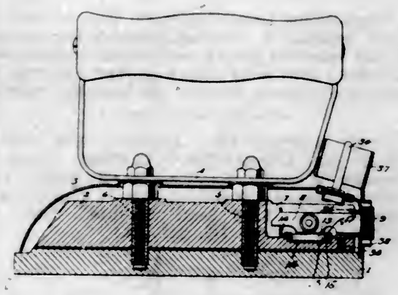
inwardly extending flange resting on said support, and a standard extending from said support through said tubular structure.

1,469,726. MACHINE FOR ROLLING METAL. MAX KECK, Crescent Springs, Ky. Filed Mar. 26, 1921. Serial No. 455,828. 6 Claims. (Cl. 80—56.)



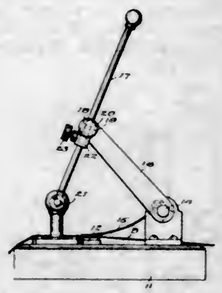
6. In a device of the class described the combination of a base having a transverse bore, sides having vertical slots therein registering with the transverse bore, a head connecting the upper ends of the sides and having a transverse bore therein, a crank shaft mounted revolubly in the transverse bore in the head, a vertical drive shaft mounted on one of the sides, a bevel gear on the crank shaft engaging a bevel gear on the drive shaft, right and left hand worms mounted on the drive shaft, upper and lower bearing blocks mounted slidably in the slots in the sides, springs yieldably spacing the upper and lower bearing blocks, an upper roll shaft mounted upon the upper bearing blocks, a lower roll shaft mounted on the lower bearing blocks, worm wheels mounted on the roll shafts engaging the worms, cooperating rolls mounted on the roll shafts intermediate the sides, a cam shaft mounted revolubly in the transverse bore in the base, cam faces formed on the cam shaft adapted to engage the lower bearing blocks, a lug formed on the cam shaft, and a crank adjustably mounted on the base adapted to engage the lug on the cam shaft whereby the cam shaft may be revolubly actuated so as to move the cam faces over the lower bearing blocks and the bearing blocks are adjustably reciprocated in the slots in the sides.

1,469,727. THERMOSTATIC SWITCHING DEVICE FOR ELECTRIC IRONS. FRANK JERMIN, Alpena, Mich., assignor of one-third to himself, one-third to Porter A. Buck, and one-third to Nelson M. Eddy, all of Alpena, Mich. Filed Mar. 14, 1922. Serial No. 543,599. 8 Claims. (Cl. 219—25.)



1. A thermostatic switching device for electric irons which comprises a current controlling switch, an expansible thermostatic element disposed in association with the switch whereby its expansion will open the switch at a predetermined temperature, said thermostatic element being so disposed that when expanded the switch cannot be returned to its closed position.

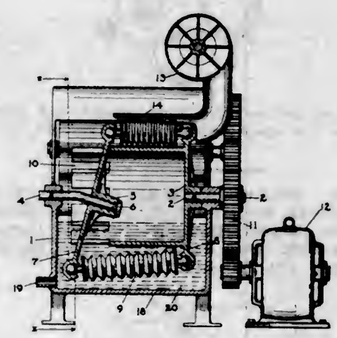
1,469,728. TENSIONING DEVICE FOR CLOTH-FOLDING MACHINES. WILLIAM P. LEVY, Salinas, Calif. Filed Sept. 1, 1922. Serial No. 585,812. 7 Claims. (Cl. 270—31.)



1. In a tensioning device, an oscillatory shaft, tensioning elements carried thereby, and relatively movable members having a sliding engagement with each other for oscillating said shaft to control the tension of said tensioning elements.

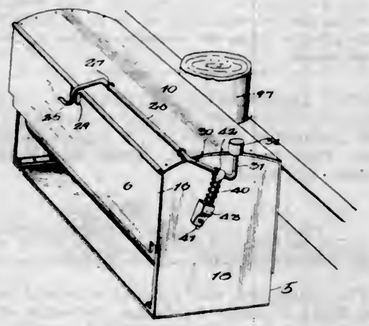
1,469,729. METHOD AND MACHINE FOR REFRIGERATION. DON D. MYERS, Toledo, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed June 28, 1920. Serial No. 392,171. 17 Claims. (Cl. 62—170.)

1. The method of refrigerating, which consists in cyclically varying the volume of a fixed mass of gas, immersing said gas in a cooling medium during the half cycle nearest the minimum volume point in the cycle, and immersing said gas in a medium to be cooled during the other half cycle, whereby heat from said medium to



be cooled is absorbed by the gas during said other half cycle.

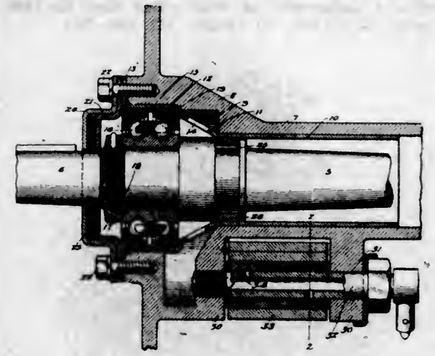
1,469,730. MAIL BOX. JAMES ABRAHAM NICHOLS, Egan, S. Dak. Filed May 22, 1922. Serial No. 562,635. 4 Claims. (Cl. 232—17.)



1. A rural mail box comprising an elongated casing having end walls and a transversely curved top, a mail receptacle of elongated formation received in said casing and having end walls pivoted to the end walls of the casing, the bottom of the receptacle being curved transversely, a rod rotatably connected to the curved top of said casing and having one end extended laterally to constitute a latch adapted to engage the upper end of the receptacle to hold the same in position, a spring confined between the inner side of said receptacle and the adjacent sides of the casing, one side of said casing being open for the passage of said receptacle, the curved top of said casing being arranged in the path of travel of the inner side of said receptacle whereby to limit the outward swinging movement of the receptacle.

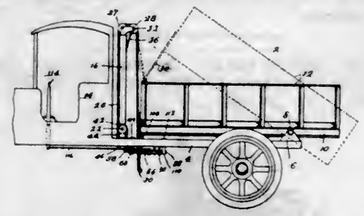
1,469,731. SPRING MOUNTING. VICTOR W. PAGÉ, Kew Gardens, New York, N. Y. Original application filed May 27, 1921, Serial No. 465,052. Divided and this application filed Feb. 7, 1922. Serial No. 534,775. 5 Claims. (Cl. 267—54.)

1. A rear axle housing formed to provide a lubricant chamber, a plurality of lugs projecting from said chamber, a bolt supported in said lugs, and a spring pivotally mounted on said bolt, said bolt being hollow and having



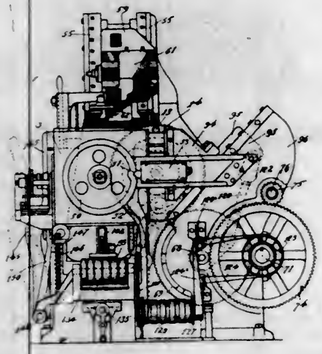
communication with the said lubricant chamber and being perforated to permit of lubricant passing therefrom to the springs.

1,469,732. TRUCK HOIST. WILLIAM H. REMSEN, Kansas City, Mo., assignor of one-half to George Heinemann, Kansas City, Mo. Filed June 12, 1920. Serial No. 388,551. 1 Claim. (Cl. 298—21.)



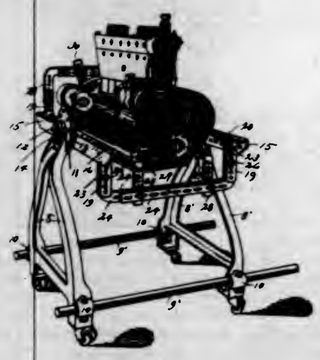
The combination of a motor vehicle having a chassis and a body pivoted at one end to said chassis, of two sprocket wheels fixed to the propeller shaft of the vehicle motor, a countershaft, 88, paralleling the propeller shaft, a sprocket wheel fixed on said countershaft and driven by one of the sprocket wheels on the propeller shaft through the intermediacy of a chain, a second countershaft paralleling the propeller shaft, a sprocket wheel loosely mounted upon said second countershaft and provided with a clutch member, a sprocket chain for driving the last-mentioned sprocket wheel from the other sprocket wheel on the propeller shaft, a gear wheel fixed to the countershaft, 88, a gear wheel loosely mounted upon the second countershaft to drive the same in a reverse direction from that in which it is driven by the sprocket wheel mounted thereon, a clutch member on the last-mentioned gear wheel, an intermediate clutch member having a feather connection with the second countershaft and adapted to be alternately shifted into engagement with the aforementioned clutch members, mechanism for shifting the intermediate clutch member into engagement with either of the companion clutch members to effect rotation of the second countershaft in opposite directions, a worm fixed to the second countershaft, a worm wheel driven by said worm, a bevel gear driven by the worm wheel, a second bevel gear driven by the first bevel gear, an inclined shaft on which said second bevel gear is fixedly mounted, a worm also fixedly mounted on said inclined shaft, a worm wheel driven by the last-mentioned worm, and a sprocket wheel fixed on the shaft of the last-mentioned worm wheel and adapted to drive hoisting mechanism for raising and lowering the vehicle body, substantially as shown and described.

1,469,733. PAPER-TRIMMING MACHINE. CHARLES SEYBOLD and WILLIAM L. VALIQUETTE, Dayton, Ohio, assignors to The Seybold Machine Company, Dayton, Ohio, a Corporation of Ohio. Filed Mar. 16, 1922. Serial No. 544,088. 31 Claims. (Cl. 164—54.)



1. In a paper trimming machine, the combination with a plurality of trimming devices arranged in different planes to operate on different portions of a paper pile in succession, of means for presenting the piles to said trimming devices, said means being in planes at an angle to each other with yieldable clamps to hold the piles while being trimmed.

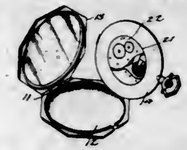
1,469,734. MOTOR STAND. JOSEPH H. STALEY, Columbus, Ind. Filed Mar. 4, 1922. Serial No. 541,254. 12 Claims. (Cl. 29—89.)



1. In a motor-stand, a pair of parallel rails adjustable vertically about a common axis, means adjustable concentrically of the axis for holding a given position of the rails, and one or more brackets for each rail, each bracket comprising a pair of straight perforated members angularly disposed to each other, one of which members is attached to a rail, the other member extending inwardly from the rail to which the bracket is attached.

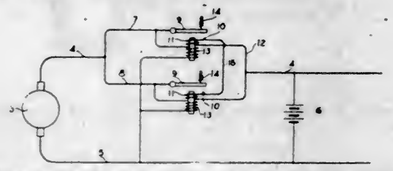
1,469,735. WATCHCASE FILLER RING. ALBERT L. STEARNS, New York, and ADOLPH W. HOFMANN, Brooklyn, N. Y., assignors to Roy Watch Case Co., New York, N. Y., a Corporation of New York. Filed July 7, 1922. Serial No. 573,276. 6 Claims. (Cl. 58—88.)

1. A watch, comprising a large thin case, a frame arranged in said case having an opening, a watch movement arranged in said opening, said movement being much smaller in diameter than the case, and covering



means arranged on said frame around said movement and over the space between said movement and said case.

1,469,736. STORAGE-BATTERY SYSTEM. RAYMOND H. SULLIVAN, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed May 4, 1922. Serial No. 558,475. 2 Claims. (Cl. 171—313.)



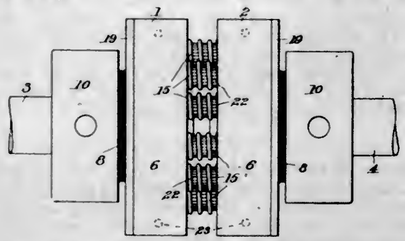
1. A storage-battery system comprising a generator; a storage battery; circuit connections between the generator and the battery; and a plurality of reverse-current cut-outs arranged in parallel to control said connections, the cut-outs being provided with series-windings which are interconnected so as to be energized in all the cut-outs when the contacts of one of the cut-outs are closed.

1,469,737. IMPREGNATING APPARATUS. OLOF N. TEVANDER, Chicago, Ill., assignor to Standard Cap & Seal Corporation, Chicago, Ill., a Corporation of Illinois. Filed Jan. 24, 1921. Serial No. 439,519. 9 Claims. (Cl. 91—13.)



1. The combination with a container holding impregnating fluid; of means for forcing circulation of air; mechanism for conveying impregnated material from the impregnating fluid container to the circulating air; and a screen through which the air is directed upon the impregnated material.

1,469,738. FLEXIBLE SHAFT COUPLING. EARL D. TUPPS, New York, N. Y., assignor to Igoe Brothers, Newark, N. J., a Corporation of New Jersey. Filed Jan. 19, 1922. Serial No. 530,359. 4 Claims. (Cl. 64—96.)



1. In a shaft coupling, the combination with collars adapted to be fixed on the shafts to be coupled, of coiled springs connecting said collars together, and bundles of flexible reinforcing wires filling the coils of said springs and extending between the collars.

1,469,739. PUNCTURING ATTACHMENT FOR COLLAPSIBLE TUBES. GEORGE S. TURNER, New Brunswick, N. J. Filed Sept. 1, 1922. Serial No. 585,745. 3 Claims. (Cl. 221—60.)



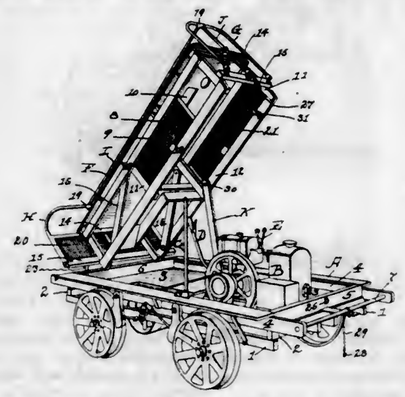
1. As a new article of manufacture, a puncturing attachment for collapsible tubes consisting of a plate having a central bore to fit over the neck of a collapsible tube, said plate having a puncturing member projecting at a side thereof and pointed to penetrate the seal of the tube.

1,469,740. CAN-TURNING MECHANISM. HENRY V. UNDERWOOD, Mount Holly, N. C., assignor of one-third to C. Edwin Hutchison, Mount Holly, N. C. Filed Aug. 30, 1922. Serial No. 585,236. 6 Claims. (Cl. 19—159.)



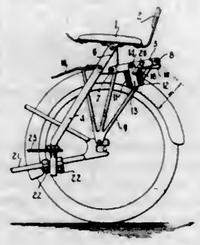
1. The combination with a machine for preparing a sliver, of a can for receiving the sliver therefrom, and means for turning said can first in one direction and then in the other to prevent the continuous coiling of the sliver and the twisting of the same in one direction all the time during the filling of the can.

1,469,741. MOTOR CAR. JEAN K. VANATTA, Chicago, Ill., assignor to Mudge & Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 23, 1923. Serial No. 633,818. 3 Claims. (Cl. 105—162.)



1. A motor car having front and end cross bars and two side bars constituting a main frame, a superstructure frame supporting a seat, means for hingedly connecting the frame and one end of said superstructure, means for frictionally holding the superstructure and the frame firmly together when in the normal position, and means for holding the superstructure in an inclined position when one end thereof is raised above the frame.

1,469,742. MOTOR-CYCLE SADDLE OR SEAT. FRIEDRICH VETTER, Amsterdam, Netherlands. Filed Aug. 15, 1921. Serial No. 492,238. 9 Claims. (Cl. 208—24.)

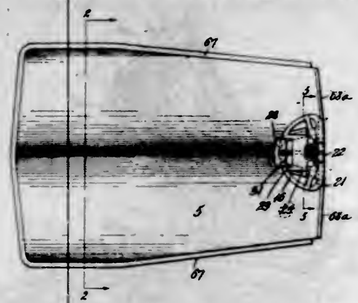


1. In a motor cycle, the combination with the motor cycle frame, of a seat carried by said frame and movable relatively thereto, foot rests rigid with said seat so that they move when the seat moves, and guiding means for guiding said seat along a line extending rearwardly and downwardly relative to said motor cycle frame and for guiding said foot rests in a path which moves the foot rests forwardly with respect to the seat when the seat and foot rests are depressed with respect to the motor cycle frame, and a spring opposing said rearward and downward movement of said seat.

1,469,743. SHIRT-IRONING BOARD. CHARLES E. WARREAM, Cincinnati, and DANA H. BENJAMIN, Cleveland Heights, Ohio, assignors to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Original application filed July 2, 1917, Serial No. 178,286. Divided and this application filed Mar. 21, 1921. Serial No. 454,212. 7 Claims. (Cl. 68—9.)

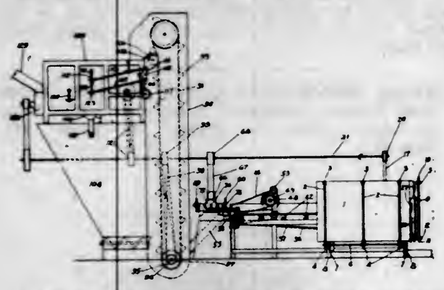
1. In an ironing machine, an ironing board having a bosom receiving surface sloping laterally in both direc-

tions from its middle line in the region of its neckband, said board being sufficiently wide at the tail end and sufficiently narrow at the neckband end to support the side portions of the bosoms of various size



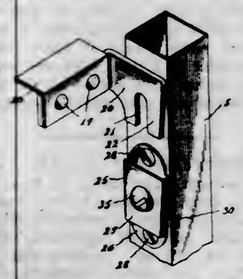
shirts with the tails spread in diverging form from the neckband toward the tail end of the shirt, whereby those portions of the shirt adjacent to and at the sides of the neckband may be ironed smooth and without wrinkles.

1,469,744. PROCESS OF AND APPARATUS FOR PREPARING CANE FOR EXTRACTION. EDWARD WESSALE, Waconia, Minn. Filed Aug. 16, 1920. Serial No. 403,996. 6 Claims. **(Cl. 146—81.)**



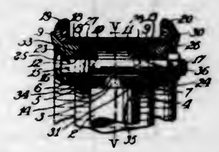
1. The process of preparing cane for extraction which consists in mechanically conveying the cane past a topping mechanism and removing the tops, conveying the topped cane from the topping mechanism to a cutting mechanism, cutting the cane in short lengths, and subjecting the cut cane to an air blast to remove the lighter parts therefrom.

1,469,745. CRIB CORNER LOCK. SAMUEL WEISGLASS, Brooklyn, N. Y. Filed Jan. 4, 1922. Serial No. 526,893. 4 Claims. (Cl. 5—296.)



1. In side rail and post connections, a socket open at top and bottom and one side and comprising a base plate secured to a face of the post, and a resilient face plate connected along one side thereof to the base plate and extending thereover in spaced relation therefrom, the face plate having a centrally disposed aperture therethrough; adjustable supporting means passing through said aperture and through a registering aperture in the base plate and engaging the post; and a locking member operatively connected to the side rail at an end of the rail having a portion receivable between the base plate and face plate and arranged for straddling said supporting means for vertical support; lateral movement of the locking member when so received being prevented by engagement of one side thereof with said connecting side of the face plate; the face plate being compressible by adjustment of said supporting means for clamping the locking member in locking position.

1,469,746. METALLIC VEHICLE WHEEL. JOHN R. WELCH, Muncie, Ind.; Viola M. Welch, executrix of said John R. Welch, deceased, assignor to Viola M. Welch, Muncie, Ind. Filed Apr. 23, 1921. Serial No. 464,002. 10 Claims. (Cl. 301—20.)



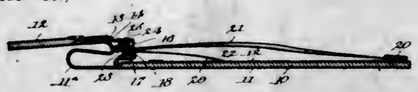
1. A vehicle wheel including a metallic wheel felly comprising a circular body and two opposite outwardly-extending flanges thereon, each flange having a turned-over bearing rib extending continuously about the body and also inwardly appreciably towards the body at a distance from the main portion of the flange, each flange having holes therein to receive lugbolts.

1,469,747. HOT DIE FOR PLASTIC MOLDING. EDWIN M. WINTER, Brooklyn, N. Y. Filed Aug. 12, 1921. Serial No. 491,720. 8 Claims. (Cl. 18—53.)



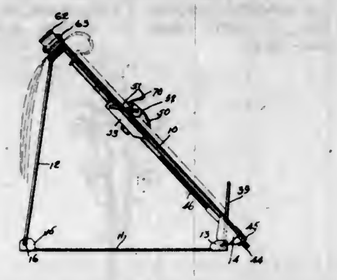
7. A platen having a coil of metal tubing therein for conducting hot or cold medium through the platen and for extensively distributing heat or cold through the platen by radiation from said coil; the tubing being oval in cross section.

1,469,748. LOOSE-LEAF BINDER AND FILLER THEREFOR. ERNEST A. P. WOLF, New York, N. Y. Filed May 5, 1922. Serial No. 558,592. 3 Claims. (Cl. 129—85.)



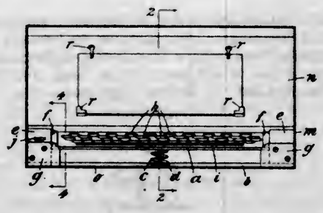
1. A device of the class described comprising a pair of cover boards, a folded fly strip secured to one of said boards, a channel strip secured to the other of said boards, a filler, a strip removably mounted in the said folded fly strip, a plurality of flexible tongues secured to said removably mounted strip, a pair of strips secured together and removably secured in said channel strip, and slide clips on one of said pair of strips and co-operative with said tongues.

1,469,749. COPYHOLDER. ALBERT N. WOODRUFF, New York, N. Y. Filed Sept. 3, 1921. Serial No. 498,295. 6 Claims. (Cl. 120—34.)



6. A copy holder comprising a bed, a line indicator, a housing reciprocatingly mounted in said bed and serving as a support for said line indicator whereby the line indicator is reciprocated longitudinally of the bed upon reciprocating movement of said housing and means for reciprocating said housing, said means comprising a plurality of spaced reciprocating plates, a rigid rod carried by said plates, means carried by the housing and adapted for engagement with said rod, a transversely extending operating element adapted for engagement with a hook formed on one of said plates whereby said plate is reciprocated in one direction, resilient means for reciprocating the plate in the opposite direction, and adjustable means for limiting the movement of said plate when actuated by said resilient means.

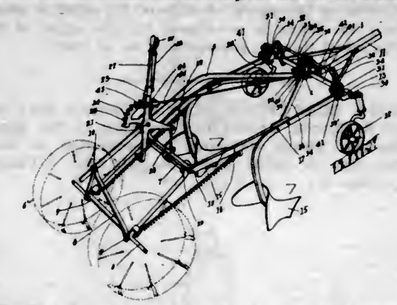
1,469,750. INSTRUCTIONAL DUMMY PRACTICE-KEYBOARD APPARATUS. HENRY HERBERT YELF, Southsea, England. Filed Mar. 13, 1923. Serial No. 624,821. 5 Claims. (Cl. 35—16.)



1. A practice keyboard device including a casing, a keyboard having key characters thereon arranged in said casing, and a compression spring located beneath said keyboard and constituting the support therefor to produce the effect of key tension.

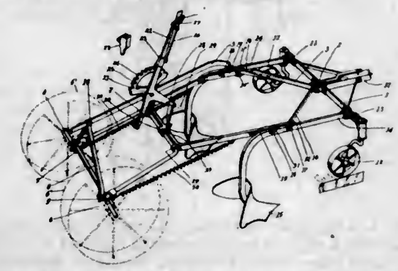
1,469,751. TWO-ROW LISTER. LEON W. CHASE, WILLIAM R. MCGEACHIN, and JAMES C. BRAND, Lincoln, Nebr., assignors to Chase Plow Company, Lincoln, Nebr., a Corporation of Nebraska. Filed Nov. 5, 1921. Serial No. 513,082. 3 Claims. (Cl. 97—248.)

1. A lister comprising a wheeled frame having vertical adjustment at its rear portion and including a front cross beam, pairs of vertically slotted brackets carried by said beam, a plurality of plow beams carried by the frame, means guided in the slots of the brackets for pivotally and slidably connecting the forward ends of the beams and the frame to the cross beam, a crank shaft supported by the cross beam and connected to the plow beams and frame for



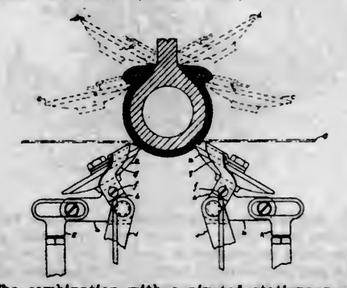
adjusting the same in the bracket slots, and means for adjustably operating the crank shaft by and during vertically adjusting the wheeled frame.

1,469,752. TWO-ROW LISTER. LEON W. CHASE, WILLIAM R. MCGEACHIN, and JAMES C. BRAND, Lincoln, Nebr., assignors to Chase Plow Company, Lincoln, Nebr., a Corporation of Nebraska. Filed Nov. 5, 1921. Serial No. 513,081. 3 Claims. (Cl. 97—234.



1. A lister comprising a wheeled frame, laterally spaced plow beams pivoted to the front transverse member thereof for vertical movement and to the side frame members for a similar movement, said side frame members being articulated between the front member and the second pivots of said plow beams, an adjustable connection intermediate the first and second pivots of said plow beams for adjustably fixing said side frame members to the plow beams to prevent pivotal action about said second pivots and to permit independent adjustment of each plow beam relative to its respective side frame members and means for vertically adjusting the frame.

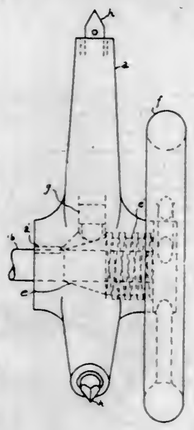
1,469,753. STITCHER WHEEL AND GUARD. JOHN W. DIRKSON, Kent, and LEE E. CLOUGH, Akron, Ohio, assignors to The Mason Tire and Rubber Company, a Corporation of Ohio. Filed Oct. 15, 1920. Serial No. 417,219. 5 Claims. (Cl. 154—10.)



4. The combination with a pivoted stationary arm, of a stitcher wheel rotatably mounted thereon, and a guard

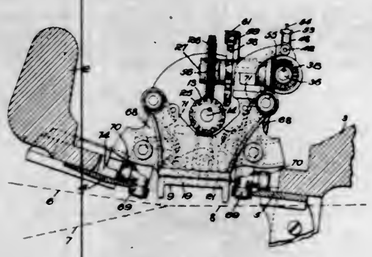
member secured rearwardly and forwardly about a portion of said stitcher wheel with its edge adjacent to, but in advance of the operative edge of the stitcher wheel, whereby the fabric is pre-shaped for the action of the stitcher wheel thereon, substantially as set forth.

1,469,754. CORE CHUCK. JOHN W. DIRKSON, Kent, and LEE E. CLOUGH, Akron, Ohio, assignors to The Mason Tire and Rubber Company, a Corporation of Ohio. Filed Oct. 15, 1920. Serial No. 417,220. 3 Claims. (Cl. 154—9.)



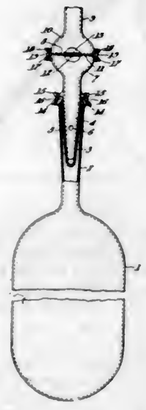
2. In a chuck for supporting annular cores, the combination with a short rotatably actuated shaft, of a plurality of radial arms mounted thereon, extensible members respectively positioned in said arms, an actuating cone operatively associated with the inner ends of said members and having an exterior thread sleeved upon the shaft and an actuating wheel for said threaded portion and cone, substantially as set forth.

1,469,755. GRINDING MECHANISM FOR THE SHEAR BLADES OF TUFT-FABRIC LOOMS. EDGAR F. HATHAWAY, Wellesley, Mass., assignor to Shawmut Engineering Company, Dorchester, Mass., a Corporation of Massachusetts. Filed May 1, 1922. Serial No. 557,799. 24 Claims. (Cl. 51—249.)



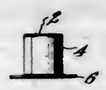
1. An attachment for grinding the opposed knives of a moquette loom when in their open or spaced position upon the loom comprising in combination a carriage constructed and proportioned to be located between and supported by said knives for traversing movement across the loom between them, a shaft thereon, a rotary grinder upon said shaft and adapted to engage a knife to grind the same, guiding means upon the carriage continuously to effect grinding contact of said grinder with the knife to be ground, and mechanism for rotating said grinder during movement of the carriage.

1,469,756. APPARATUS FOR TRANSPORTING GASES. PIERRE E. HAYNES, Buffalo, N. Y., assignor to The Linde Air Products Company, a Corporation of Ohio. Filed Mar. 11, 1922. Serial No. 543,060. 5 Claims. (Cl. 215—74.)



1. In combination, a portable glass apparatus comprising a container for gases, a valve-controlled filling and discharging conduit attached to said container, the terminus of said conduit being ground to a regular surface, and a second glass conduit adapted to be connected to a gas-producing or gas-using apparatus, said second conduit having a terminus ground to fit the terminus of the conduit attached to the container.

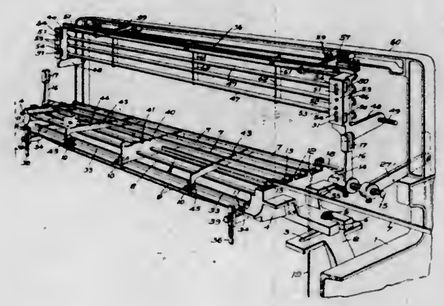
1,469,757. BLANKING-OUT EYELETS. EDWARD L. SIBLEY, 2d, Bennington, Vt., assignor to Edward L. Sibley Manufacturing Company, Incorporated, Bennington, Vt., a Corporation of Vermont. Filed Sept. 30, 1921. Serial No. 504,298. 4 Claims. (Cl. 164—17.)



1. The method of blanking out eyelets having radiate or star-shaped blanks, provided with a plurality of sections or fingers, same consisting in punching a plurality of substantially parallel rows of such blanks with the sections or fingers extending in between the cuts of the sections or fingers of adjacent blanks of the same row and also the parallel row or rows on either side.

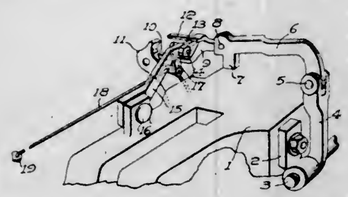
1,469,758. WARP STOP MECHANISM FOR LOOMS. EDWARD S. STIMPSON, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Dec. 29, 1921. Serial No. 525,705. 17 Claims. (Cl. 139—360.)

5. In a warp stop mechanism for looms, the combination of a series of drop wires normally supported by the warp threads during weaving, a feeler carrier, a feeler connected to the feeler carrier, side supports on which the feeler carrier slides, an actuator for imparting sliding movements to the feeler carrier to cause the feeler to ap-



proach and recede from the drop wires, and anti-friction devices for facilitating sliding movement of the feeler carrier on the side supports towards and from the drop wires.

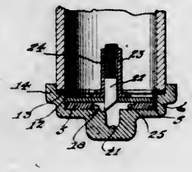
1,469,759. FEELER MECHANISM FOR LOOMS. WALLACE I. STIMPSON, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 7, 1922. Serial No. 550,471. 5 Claims. (Cl. 139—281.)



1. In a feeler mechanism for looms, the combination of a feeler mounted for movement toward and from the front of the loom and also in a direction longitudinally of the shuttle and held from such movement longitudinally of the shuttle by engagement with the filling on a detecting beat until substantial exhaustion thereof, a filling carrier contained within the shuttle and having a bobbin holding head, a cylindrical yarn holding portion adjacent the head, a second cylindrical yarn holding portion extending from the tip towards the head, and an inclined portion between the two which becomes exposed when the filling is substantially exhausted and by frontward pressure of such inclined portion against the feeler on a detecting beat causes movement of the feeler in a direction longitudinally of the shuttle, and means controlled by the feeler for effecting replenishment of filling.

1,469,760. LUBRICATING DEVICE. RALPH I. YOUNG, Odell, Nebr. Filed Apr. 14, 1922. Serial No. 552,714. 7 Claims. (Cl. 84—81.)

3. In a lubricating dispensing device, a carrying body provided with an outlet passageway, a lubricant container carried by said body, a horizontally rotatable worm gear within said body and provided with a plurality of lubricant receiving openings, means for rotating said worm gear, a disc within said body between the worm gear and lubricant, said disc provided with a plurality of openings to permit deposit of lubricant in the openings of said worm gear, said worm gear openings adapted to discharge their lubricant upon their registration with said outlet passageway, a spring pressed pawl operating as a plunger carried by said disc for projection through the



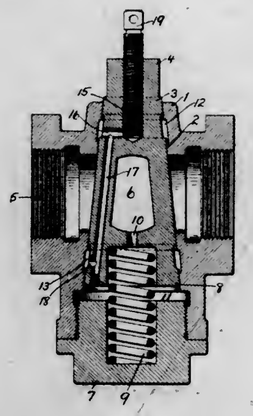
lubricant carrying openings in said worm gear to force lubricant therefrom, means for preventing rotation of said disc, and a pressure spring engaging said disc and forcing it into engagement with said worm gear.

1,469,761. INGOT OF REFRACTORY METALS AND METHOD OF MAKING SAME. JOHN A. YUNCK, South Orange, N. J. Filed Apr. 28, 1921. Serial No. 465,097. 3 Claims. (Cl. 148—11.)



1. The herein described process of forming an ingot containing tungsten or alloy thereof which comprises the following steps: first, packing fine powder mainly composed of tungsten into a cylinder of soft and ductile metal such as copper, and closing the open end of such cylinder with a plug of the same metal; second, swaging down the cartridge so formed to approximately one-third of its original diameter; third, heating the composite rod so formed in a carbon tube in a non-oxydizing atmosphere until the soft metal envelope has been removed by vaporization and the tungsten particles have been firmly fritted together.

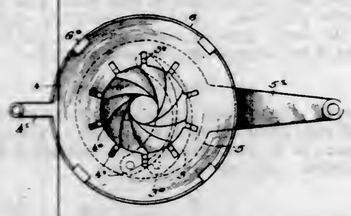
1,469,762. VALVE. SVEN JOHAN NORDSTROM, San Francisco, Calif., assignor of one-half to The Merrill Company, San Francisco, Calif., a Corporation of California. Filed June 27, 1922. Serial No. 571,252. 4 Claims. (Cl. 251—93.)



3. A valve comprising a casing, a plug seated in the casing, means for yieldingly holding the plug against its seat, two sets of oppositely disposed circumferential

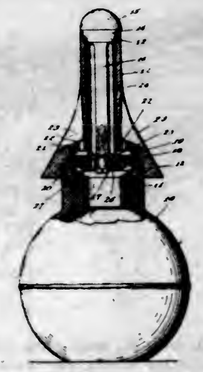
grooves in the bearing surface of the plug and the casing, a reservoir in the plug adapted to contain lubricant, holes wholly within the body of the plug connecting the reservoir with the grooves, and means for exerting pressure upon the lubricant in the reservoir to force it into the grooves and thereby lift the plug from its seat.

1,469,763. DIAPHRAGM. WARD H. SNYDER and FRANK F. FARKAS, Chicago, Ill. Original application filed Nov. 15, 1920, Serial No. 424,080. Divided and this application filed Nov. 6, 1922. Serial No. 599,193. 10 Claims. (Cl. 95—64.)



1. In a camera, a diaphragm having leaves, and two independently adjustable controlling elements; said leaves being subject to the joint control of said controlling elements.

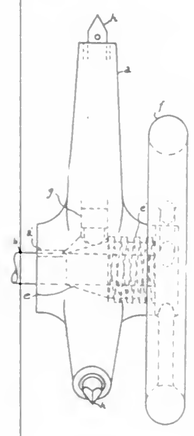
1,469,764. SYRINGE. BENJAMIN F. CRISENBERRY, Indianapolis, Ind., assignor of two-thirds to Morris L. White, Indianapolis, Ind. Filed Oct. 20, 1920. Serial No. 418,190. 2 Claims. (Cl. 128—245.)



1. In a syringe, the combination of a bulb, a nozzle mounted thereon, said nozzle having a discharge opening at the end and inlet openings at the sides, a valve stem having a sliding fit within said nozzle and being provided with longitudinal passages, and two valves fixed on opposite ends of said stem and operating to close said discharge opening and said inlet openings respectively when said valve stem is moved in opposite directions.

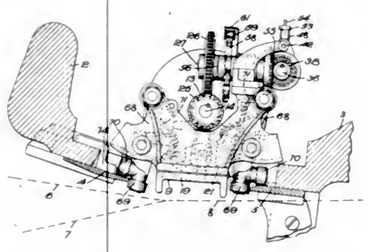
member secured rearwardly and forwardly about a portion of said stitcher wheel with its edge adjacent to, but in advance of the operative edge of the stitcher wheel, whereby the fabric is pre-shaped for the action of the stitcher wheel thereon, substantially as set forth.

1,469,754. CORE CHUCK. JOHN W. DIRKSON, Kent, and LEE E. CLOUGH, Akron, Ohio, assignors to The Mason Tire and Rubber Company, a Corporation of Ohio. Filed Oct. 15, 1920. Serial No. 417,220. 3 Claims. (Cl. 154—9.)



2. In a chuck for supporting annular cores, the combination with a short rotatably actuated shaft, of a plurality of radial arms mounted thereon, extensible members respectively positioned in said arms, an actuating cone operatively associated with the inner ends of said members and having an exterior thread sleeved upon the shaft and an actuating wheel for said threaded portion and cone, substantially as set forth.

1,469,755. GRINDING MECHANISM FOR THE SHEAR BLADES OF TUFT-FABRIC LOOMS. EDGAR F. HATHAWAY, Wellesley, Mass., assignor to Shawmut Engineering Company, Dorchester, Mass., a Corporation of Massachusetts. Filed May 1, 1922. Serial No. 557,799. 24 Claims. (Cl. 51—249.)



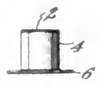
1. An attachment for grinding the opposed knives of a moquette loom when in their open or spaced position upon the loom comprising in combination a carriage constructed and proportioned to be located between and supported by said knives for traversing movement across the loom between them, a shaft thereon, a rotary grinder upon said shaft and adapted to engage a knife to grind the same, guiding means upon the carriage continuously to effect grinding contact of said grinder with the knife to be ground, and mechanism for rotating said grinder during movement of the carriage.

1,469,756. APPARATUS FOR TRANSPORTING GASES. PIERRE E. HAYNES, Buffalo, N. Y., assignor to The Linde Air Products Company, a Corporation of Ohio. Filed Mar. 11, 1922. Serial No. 543,060. 5 Claims. (Cl. 215—74.)



1. In combination, a portable glass apparatus comprising a container for gases, a valve-controlled filling and discharging conduit attached to said container, the terminus of said conduit being ground to a regular surface, and a second glass conduit adapted to be connected to a gas-producing or gas-using apparatus, said second conduit having a terminus ground to fit the terminus of the conduit attached to the container.

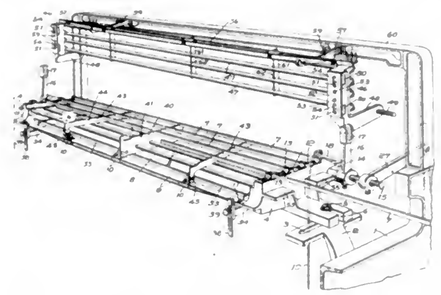
1,469,757. BLANKING-OUT EYELETS. EDWARD L. SIBLEY, 2d, Bennington, Vt., assignor to Edward L. Sibley Manufacturing Company, Incorporated, Bennington, Vt., a Corporation of Vermont. Filed Sept. 30, 1921. Serial No. 504,298. 4 Claims. (Cl. 164—17.)



1. The method of blanking out eyelets having radiate or star-shaped blanks, provided with a plurality of sections or fingers, same consisting in punching a plurality of substantially parallel rows of such blanks with the sections or fingers extending in between the cuts of the sections or fingers of adjacent blanks of the same row and also the parallel row or rows on either side.

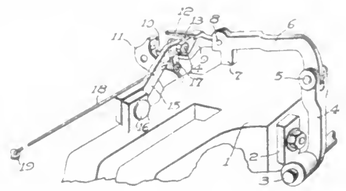
1,469,758. WARP STOP MECHANISM FOR LOOMS. EDWARD S. STIMPSON, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Dec. 29, 1921. Serial No. 525,705. 17 Claims. (Cl. 139—360.)

5. In a warp stop mechanism for looms, the combination of a series of drop wires normally supported by the warp threads during weaving, a feeler carrier, a feeler connected to the feeler carrier, side supports on which the feeler carrier slides, an actuator for imparting sliding movements to the feeler carrier to cause the feeler to ap-



proach and recede from the drop wires, and anti-friction devices for facilitating sliding movement of the feeler carrier on the side supports towards and from the drop wires.

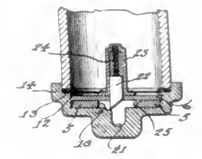
1,469,759. FEELER MECHANISM FOR LOOMS. WALLACE I. STIMPSON, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 7, 1922. Serial No. 550,471. 5 Claims. (Cl. 139—281.)



1. In a feeler mechanism for looms, the combination of a feeler mounted for movement toward and from the front of the loom and also in a direction longitudinally of the shuttle and held from such movement longitudinally of the shuttle by engagement with the filling on a detecting beat until substantial exhaustion thereof, a filling carrier contained within the shuttle and having a bobbin holding head, a cylindrical yarn holding portion adjacent the head, a second cylindrical yarn holding portion extending from the tip towards the head, and an inclined portion between the two which becomes exposed when the filling is substantially exhausted and by frontward pressure of such inclined portion against the feeler on a detecting beat causes movement of the feeler in a direction longitudinally of the shuttle, and means controlled by the feeler for effecting replenishment of filling.

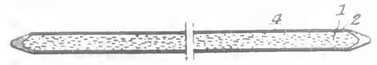
1,469,760. LUBRICATING DEVICE. RALPH I. YOUNG, Odell, Nebr. Filed Apr. 14, 1922. Serial No. 552,714. 7 Claims. (Cl. 84—81.)

3. In a lubricating dispensing device, a carrying body provided with an outlet passageway, a lubricant container carried by said body, a horizontally rotatable worm gear within said body and provided with a plurality of lubricant receiving openings, means for rotating said worm gear, a disc within said body between the worm gear and lubricant, said disc provided with a plurality of openings to permit deposit of lubricant in the openings of said worm gear, said worm gear openings adapted to discharge their lubricant upon their registration with said outlet passageway, a spring pressed pawl operating as a plunger carried by said disc for projection through the



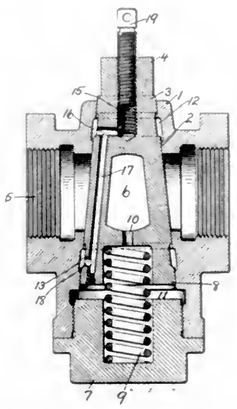
lubricant carrying openings in said worm gear to force lubricant therefrom, means for preventing rotation of said disc, and a pressure spring engaging said disc and forcing it into engagement with said worm gear.

1,469,761. INGOT OF REFRACTORY METALS AND METHOD OF MAKING SAME. JOHN A. YUNCK, South Orange, N. J. Filed Apr. 28, 1921. Serial No. 465,097. 3 Claims. (Cl. 148—11.)



1. The herein described process of forming an ingot containing tungsten or alloy thereof which comprises the following steps: first, packing fine powder mainly composed of tungsten into a cylinder of soft and ductile metal such as copper, and closing the open end of such cylinder with a plug of the same metal; second, swaging down the cartridge so formed to approximately one-third of its original diameter; third, heating the composite rod so formed in a carbon tube in a non-oxydizing atmosphere until the soft metal envelope has been removed by vaporization and the tungsten particles have been firmly fritted together.

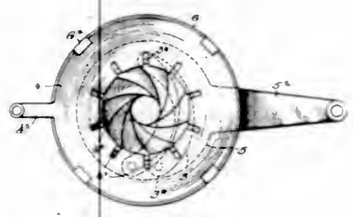
1,469,762. VALVE. SVEN JOHAN NORDSTROM, San Francisco, Calif., assignor of one-half to The Merrill Company, San Francisco, Calif., a Corporation of California. Filed June 27, 1922. Serial No. 571,253. 4 Claims. (Cl. 251—93.)



3. A valve comprising a casing, a plug seated in the casing, means for yieldingly holding the plug against its seat, two sets of oppositely disposed circumferential

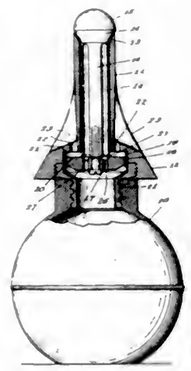
grooves in the bearing surface of the plug and the casing, a reservoir in the plug adapted to contain lubricant, holes wholly within the body of the plug connecting the reservoir with the grooves, and means for exerting pressure upon the lubricant in the reservoir to force it into the grooves and thereby lift the plug from its seat.

1,469,763. DIAPHRAGM. WARD H. SNYDER and FRANK F. FARKAS, Chicago, Ill. Original application filed Nov. 15, 1920, Serial No. 424,080. Divided and this application filed Nov. 6, 1922. Serial No. 599,193. 10 Claims. (Cl. 95—64.)



1. In a camera, a diaphragm having leaves, and two independently adjustable controlling elements; said leaves being subject to the joint control of said controlling elements.

1,469,764. SYRINGE. BENJAMIN F. CRISENBERRY, Indianapolis, Ind., assignor of two-thirds to Morris L. White, Indianapolis, Ind. Filed Oct. 20, 1920. Serial No. 418,190. 2 Claims. (Cl. 128—245.)



1. In a syringe, the combination of a bulb, a nozzle mounted thereon, said nozzle having a discharge opening at the end and inlet openings at the sides, a valve stem having a sliding fit within said nozzle and being provided with longitudinal passages, and two valves fixed on opposite ends of said stem and operating to close said discharge opening and said inlet openings respectively when said valve stem is moved in opposite directions.

Patents Nos. 1,469,765 to 1,470,588.

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Labels	22—No.	26,468 to No.	26,489, inclusive.
Reissues	2—No.	15,696 to No.	15,697, inclusive.
Designs	11—No.	63,117 to No.	63,127, inclusive.
Patents	824—No.	1,469,765 to No.	1,470,588, inclusive.
Total	1019		

ADJUDICATED PATENTS.

(D. C. Del.) Browning patent, 411,454, claim 1 *Held* invalid and void. *Victor Talking Mach. Co.* v. *Brunswick-Balke-Collender Co.*, 290 Fed. Rep., 565.

(D. C. Del.) Johnson patent, 946,442, claim 19 *Held* invalid. *Victor Talking Mach. Co.* v. *Brunswick-Balke-Collender Co.*, 290 Fed. Rep., 565.

(D. C. N. Y.) Smith patent, 1,080,381, claim 1, for coin-counting machine, *Held* valid, but not infringed. *Abbott Coin Counter Co.* v. *Standard-Johnson Co.*, 290 Fed. Rep., 418.

(D. C. N. Y.) Goldberg patent, 1,097,544, claims 2 and 3, for garment-hanger bag, *Held* valid and not infringed. *Lewy Chemical Co.* v. *Roseth Corp.*, 290 Fed. Rep., 529.

(D. C. N. Y.) Lloyd patent, 1,229,102, for talking doll, *Held* valid and infringed. *Lloyd* v. *Spalletta*, 290 Fed. Rep., 537.

(D. C. N. Y.) Hothersall patent, 1,316,240, for lunch box, claim 1 *Held* void and claim 2 valid and infringed. *American Can Co.* v. *Goldee Mfg. Co.*, 290 Fed. Rep., 523.

Notice of Cancellation.

U. S. PATENT OFFICE, *Washington, Sept. 13, 1923.*

Lottie Lillingston, her assigns or legal representatives, take notice:

A cancellation proceeding has been instituted by this Office upon the application of C. Benedict Mfg. Co., of 559 Mission Street, San Francisco, Calif., to effect the cancellation of the trade-mark registration of Henry W. Lyon, of Bridgeport, Conn., No. 25,969, dated February 5, 1895. The records of this Office show that Lottie Lillingston is the assignee of said Lyon. The notice of such proceeding sent by the applicant by registered mail to joint respondent Lottie Lillingston at her address of record, Bridgeport, Conn., having been returned by the post office undeliverable, notice is hereby given that unless said Lottie Lillingston, her assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as to her interest, if any, as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Interference Notices.

U. S. PATENT OFFICE, *Washington, Sept. 19, 1923.*

Benoist Bros. Mfg. Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Albert Setzer, of 59 Broadway, Providence, R. I., for registration of a trade-mark and trade-mark registered February 15, 1910, No. 76,778, to Benoist Bros. Mfg. Co., of 3923 Olive Street, St. Louis, Mo., and a notice of such declaration sent by registered mail to said Benoist Bros. Mfg. Co., at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Benoist Bros. Mfg. Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Sept. 13, 1923.*

John W. Stover, his assigns or legal representatives, take notice:

An interference having been declared by this Office between Frank C. Wahlenmaier, 748 Minnesota Avenue, Kansas City, Kans., for registration of a trade-mark and trade-mark registered October 13, 1908, No. 70,848, to John W. Stover, 1341 Oakdale Avenue, Grand Rapids, Mich., and a notice of such declaration sent by registered mail to said John W. Stover at the said address having been returned by the post office undeliverable, notice is hereby given that unless said John W. Stover, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Condition of Applications Under Examination at Close of Business September 28, 1923.

(Total number of applications awaiting action, excluding Trade-Mark Division, 75,922. Trade-Mark Division, 3,387. Oldest new case, Nov. 15, 1922; oldest amended, Nov. 16, 1922. The dates given are 1922 except where * indicates 1923.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	Dec. 12	Dec. 12	1,346
128	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Dec. 21	Nov. 16	1,446
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	*Mar. 12	*Mar. 28	1,332
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Dec. 11	*Mar. 9	1,680
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Dec. 1	Dec. 7	1,553
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Medicines; Plastic Compositions; Substance Preparation.	Nov. 15	*Mar. 12	1,798
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	*Jan. 5	*Jan. 9	2,815
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*Mar. 3	*May 9	1,855
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	*Jan. 4	*Aug. 15	887
235	10. HUNTER, O. F. (Acting), Motor Vehicles; Land Vehicles—Animal Draft Appliances, Bodies and Tops, Dumping, Wheel Substitutes.	Dec. 16	*Mar. 5	1,518
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skin, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Apr. 2	*Mar. 3	986
322	12. PIERCE, P. F., Machine Elements	*Jan. 10	*Jan. 29	1,464
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	Dec. 20	*May 17	1,266
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Dec. 1	*July 23	1,114
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Dec. 6	Dec. 19	2,150
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Dec. 13	Dec. 11	2,650
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Association or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Dec. 1	*Apr. 13	1,659
229	18 PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	Dec. 2	Dec. 1	2,096
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	*May 8	*May 26	694
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Mar. 5	*Jan. 27	1,628
212	21. THURBER, W. L., Winding and Reeling; Textiles—Braiding, Netting, or Lace Making, Cloth Finishing, Fiber Preparation, Knitting, Spinning, Twisting or Twining, Weaving.	Dec. 1	*June 2	1,048
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	*Jan. 24	*Feb. 10	666
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	Nov. 27	Dec. 11	860
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Dec. 7	*Mar. 1	1,355
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Gas Separation.	*Apr. 2	*Feb. 27	1,068
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Dec. 11	Dec. 6	1,054
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Dec. 18	*Feb. 6	1,511
225	28. BENSON, A. R., Internal-Combustion Engines	*Jan. 29	*Jan. 27	1,427
147	29. MORRIS, B. N., Abrading; Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Dec. 29	*Mar. 23	1,338
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	*Jan. 8	*July 6	1,962
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar, Starch, and Carbohydrates; Concentrating Evaporators.	Dec. 1	Nov. 28	1,691
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Dec. 1	Nov. 22	1,410
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	*Jan. 2	*Jan. 2	1,732
304	34. SIMPSON, C. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Feb. 7	*Mar. 29	878
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Mar. 19	*Apr. 27	1,004
265	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Mar. 12	*Feb. 26	2,078
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Dec. 6	Dec. 7	1,916
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking, Wells.	Dec. 8	Dec. 4	2,029
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Nov. 29	Dec. 6	1,427
269	40. OBERLIN, J. J., Baggage; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Dec. 7	*Apr. 27	2,156
125	41. BROWN, J. H., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	*Jan. 17	*Apr. 2	1,013
114	42. CUTTING, E. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Dec. 1	Dec. 26	1,789
382	43. HOPKINS, F. M., Baths and Closets; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	*Jan. 23	Dec. 16	1,918
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	Dec. 11	*Apr. 5	1,223
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	*Jan. 26	Dec. 15	1,697
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	*Jan. 15	*Jan. 23	1,497
264	47. BARKER, H., Brakes; Clutches and Power-Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time-Controlling Mechanism.	Dec. 26	*Apr. 17	1,187
118	48. ROEPKE, C. B., Electricity Conductors; Electricity, General Applications	Dec. 1	Dec. 1	2,455
383	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	*Jan. 11	*Feb. 5	605
102	DESIGNS: C. O. MARKHAM (Acting)	*Apr. 2	*Apr. 12	1,991
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, Jr. {Trade-Marks	*June 15	*Aug. 4	3,302
	{Labels and Prints	*Sept. 12	*Sept. 17	85

DECISIONS IN PATENT AND TRADE-MARK CASES.

Court of Appeals of the District of Columbia.

PATTON PAINT COMPANY (PITTSBURGH PLATE GLASS CO. SUBSTITUTED) *v.* SUNSET PAINT COMPANY.

No. 1,546. Decided June 4, 1923.

1. TRADE-MARKS—"SUN-PROOF" AND "SUNSET" DISSIMILAR.

The marks have nothing in common except the first syllable and are entireties so unlike in appearance, sound, and meaning that a purchaser would be exceedingly unwary who would mistake one for the other.

2. SAME—REMEDY FOR UNFAIR COMPETITION WHERE OPPOSITION TO REGISTRATION FAILS.

The word "Sunset" may be so used in connection with a representation of the sun as to constitute unfair competition; but in that event the opposer has an adequate remedy which opposition to registration does not afford, accomplishing, as it does, if successful, nothing more than the shifting of the burden of proof. No right of property is concluded by registration of a mark, and the parties affected are free to seek such relief as courts of law or equity may award.

Mr. W. T. Estabrook for Patton Paint Company.
Mr. A. E. Wallace for Sunset Paint Co.

Before ROBB and VAN ORSDEL, Justices, and SMITH, Judge of the United States Court of Customs Appeals.

SMITH, *J.*:

The Sunset Paint Company located in Los Angeles, California, filed on the 27th of January, 1920, an application in the Patent Office for the registration of the word "Sunset" as a trade-mark for its paints, varnishes and painters' materials.

To that application the Patton Paint Company filed its opposition in December, 1920, and therein alleged that the word "Sun-Proof" and a conventionalized pictorial representation of the sun, had been registered in the United States Patent Office in February, 1897, as the trade-mark of the James E. Patton Company and that that mark had been duly assigned to the opposer and had been continuously used by the opposer, its assignors and predecessors in business ever since the year 1896; that the Patton Paint Company in July, 1915, registered in the Patent Office as a trade-mark for its goods another conventional representation of the sun known as the "Sun-Face and Rays" which trade-mark had been continuously used by the opposer ever since the first of January, 1908; that the word "Sunset" sought to be registered as a trade-mark resembled the trade-marks of the Patton Paint Company and that the impressions conveyed by the words "Sunset" and "Sun-Proof" accompanied by a pictorial representation of the sun were so similar as to confuse and mislead the public with resulting damage to the Patton Paint Company.

To this opposition the Sunset Paint Company made answer denying that the trade-marks presented for registration were so similar to those of the Patton Paint Company that they would either mislead or confuse the public or damage the opposer.

Testimony was taken on the issue joined and the Examiner of Interferences held that the word "Sunset" sought to be registered was similar to the mark "Sun-Proof" of the opposer and therefore denied the application of the Sunset Paint Company.

On appeal to the Commissioner of Patents, the First Assistant Commissioner of Patents reversed the decision of the Examiner of Interferences and dismissed the opposition. From the decision of the First Assistant Commissioner the Patton Paint Company took this appeal and now contends that the Commissioner of Patents erred in finding that there was no such resemblance between the marks of the applicant and the opposer, as would confuse and mislead the public.

[1, 2] In our opinion there is no such similarity between the marks as would warrant a denial of the application for registration of the word "Sunset". The company seeking registration is the Sunset Paint Company and the word which it desires to register as its trade-mark conforms to the fanciful part of its name and therefore serves to identify the goods which it sells as those of the Sunset Paint Company. On the other hand, "Sun-Proof", the mark of the opposer constitutes no part of the owner's name and conveys to the public the idea that the paints, varnishes and painters' material identified by it resist the sun's rays. In brief one trade-mark indicates to the public the name of the dealer and the other calls attention to the sun-resisting qualities or properties of the goods to which it is applied. The marks have nothing in common except the first syllable and are entireties so unlike in appearance, sound and meaning that a purchaser would be exceedingly unwary who would mistake one for the other. The word "Sunset" may be so used in connectoin with a representation of the sun as to constitute unfair competition, but in that event the opposer has an adequate remedy which opposition to registration does not afford, accomplishing as it does, if successful, nothing more than the shifting of the burden of proof. No right of property is concluded by registration of a mark and the parties affected are free to seek such relief as courts of law or equity may award. (*William Rogers v. International Silver Company*, 30 App. D. C., 97, 105; 129 O. G., 3503.)

The decision appealed from is affirmed.

Court of Appeals of the District of Columbia.

IN RE MIDWEST OIL COMPANY.

No. 1,556. Decided June 4, 1923.

TRADE-MARKS — "AVIO" AND "AVIOLINA" — DECEPTIVE SIMILARITY.

That which gives character to both marks, catches and arrests the eye, and which is the predominant feature of each is the word "Avio." The syllable "lina" is apparently used as a diminutive. The prospective customer might well regard "Avio" as a contraction of "Aviolina." Both words are fanciful, and there is no differentiation on the basis of the idea conveyed.

Mr. A. C. Paul and *Mr. W. G. Henderson* for Midwest Oil Company.

Mr. T. A. Hostetler for the Commissioner of Patents.

Before ROBB and VAN ORSDEL, Justices, and SMITH, Judge of the United States Court of Customs Appeals.

SMITH, *J.:*

The Midwest Oil Company applied to the Commissioner of Patents for the registration of the word "Avio" as its trade-mark for lubricating oils, greases, gasoline and kerosene, which trade-mark the applicant claimed to have used continuously in its business ever since April 5, 1919.

The Examiner of Trade-Marks held that the dominant feature of the mark sought to be registered was similar to the mark "Aviolina" previously registered by the Atlantic Refining Company for goods of the same kind as those carrying the mark of the applicant and therefore denied registration to the word "Avio". On appeal to the Commissioner of Patents, the action of the Examiner of Trade-Marks was affirmed by the Assistant Commissioner of Patents and from that decision this appeal was taken.

That which gives character to both marks and which is the predominant and important feature of each of them is the word "Avio". The syllable "lina" in "Aviolina" is apparently used as a diminutive and that which catches and arrests the eye is the word "Avio". The prospective purchaser might well regard "Avio" as a contraction of the word "Aviolina", which would not be misunderstood and ordering in accord with that belief accomplish a purchase of the goods of the applicant instead of those of the registrant of the mark "Aviolina". The words employed by the applicant and by the registrant are fanciful and convey no meaning which would permit of their differentiation on the basis of the idea conveyed.

The principal distinguishing feature of one mark is identical with that of the other and gives a similarity to both which raises a reasonable doubt as to whether the trade would not be confused and the public misled by the mark of the applicant. The benefit of that doubt must be given to the prior appropriation, and the decision of the Commissioner is therefore affirmed.

U. S. Circuit Court of Appeals—Sixth Circuit.

ARMOUR & CO. *v.* LOUISVILLE PROVISION CO.

Decided July 14, 1922; on motion for rehearing October 13, 1922.

[283 Fed. Rep., 42.]

1. TRADE-MARKS AND TRADE NAMES AND UNFAIR COMPETITION—STAR MAY BE VALID TRADE-MARK, IF NOT ALREADY EXCLUSIVELY APPROPRIATED.

The word "Star" or symbol thereof should be regarded as fanciful and as suggestive rather than as purely descriptive, and thus as capable of being made the subject of a valid trade-mark, if not already exclusively appropriated.

2. SAME—STAR NOT INVALID AS TRADE-MARK BECAUSE APPLIED TO BUT ONE GRADE OF MANUFACTURED PRODUCT.

The word "Star" would not necessarily be invalid as a trade-mark merely because applied to but one grade of manufactured product.

3. SAME—STAR NOT INVALID AS TRADE-MARK BECAUSE ASSOCIATED WITH NAME OF MANUFACTURER OR OTHER WORDS NOT ADOPTED AS PART THEREOF.

The word "Star" or symbol thereof would not fail of creating a valid trade-mark merely because used in association with the name of the manufacturer or other words not adopted as part of the trade-mark.

4. SAME—BURDEN ON CLAIMANT OF TRADE-MARK TO ESTABLISH ITS ADOPTION.

The question of whether claimant or his predecessor actually adopted as a trade-mark a word or symbol thereof is distinctly one of fact, the affirmative of which the claimant has the burden of establishing.

5. SAME—EVIDENCE HELD NOT TO ESTABLISH ADOPTION OF WORD AS TRADE-MARK INDEPENDENTLY OF ASSOCIATION WITH CORPORATION'S NAME.

Evidence held not to establish the adoption of a word as a trade-mark independently of the name of the corporation with which it was used, and that the use of the same word by another corporation as a part of its trade-mark was not an infringement.

6. SAME—REGISTRATION DOES NOT CREATE, NOR IS IT ESSENTIAL TO VALIDITY OF, TRADE-MARK.

Registration does not create a trade-mark, nor is it at all essential to its validity.

7. SAME—REFUSAL TO ADMIT IN EVIDENCE PATENT OFFICE REJECTION OF APPLICATION FOR REGISTRATION OF TRADE-MARK HELD NOT ERRONEOUS.

Under Trade-Mark Act (Comp. St., sec. 9485 et seq.) the rejection by the Patent Office of an application for registration of a trade-mark is not an adjudication of what the trade-mark of another is, deciding no questions other than that the applicant was not entitled to its exclusive use, or whether they were so similar to another as to be confusing, and in a suit for infringement it was not error to refuse to admit in evidence such rejection.

8. SAME—TO SUSTAIN UNFAIR COMPETITION, THERE MUST BE TENDENCY TO PALM OFF GOODS AS THOSE OF ANOTHER.

To sustain a charge of unfair competition, it must at least appear that defendant's conduct had a tendency or was calculated to palm off his goods as those of plaintiff.

9. SAME—USE OF TRADE-MARK HELD NOT UNFAIR COMPETITION.

The use of a trade-mark by a corporation engaged in preparing, packing, and selling meat products which was, with the exception of the use of one word and its symbol, so essentially different in design, size, wording, and color from a trade-mark used by another corporation engaged in the same business as not to deceive a purchaser of ordinary intelligence as to the identity of the products of the corporations was not unfair competition.

APPEAL from the District Court of the United States for the Western District of Kentucky; Walter Evans, judge.

Suit in equity by Armour & Co. against the Louisville Provision Company. Decree for defendant, and complainant appeals. Affirmed.

For opinion below, see 275 Fed., 92.

Mr. Helm Bruce (*Mr. A. B. Stratton* and *Messrs. Bruce & Bullitt* on the brief) for the appellant.

Mr. Edw. P. Humphrey and *Mr. Louis Seelbach, jr.* (*Messrs. Humphrey, Crawford & Middleton* on the brief) for the appellee.

Before KNAPPEN, DENISON, and DONAHUE, Circuit Judges.

KNAPPEN, *Cir. J.:*

Plaintiff appellant is a corporation organized in 1900 under the laws of Illinois, as successor to a partnership of the same name, and has been engaged during its entire corporate existence in the business of preparing, packing, and selling meat products, including hams and bacons, at Chicago, Ill., and elsewhere throughout the United States, that having likewise been the business of its copartnership predecessor. Defendant appellee is a corporation organized in 1910 under the laws of Kentucky, and ever since engaged at Louisville, Ky., in preparing, packing, and selling meat products as a competitor of plaintiff. In 1918 plaintiff filed in the court below its bill, asserting the valid adoption in 1877 by the copartnership of Armour & Co., and the continued use thereafter by the copartnership and the corporation, respectively, of a trade-mark (for hams and bacons of high-grade quality) consisting of the symbol of a star, and, as an alternative, the word "Star." The bill alleged infringement of plaintiff's trade-mark by defendant in the use of the brand "Southern Star" upon hams and bacons of defendant's marketing. Unfair competition was also asserted. Defendant denied that either plaintiff or its predecessor was the original user of the "Star" brand or mark, and asserted that the use of the same was of common right. There was also denial that plaintiff had exclusively either the ownership of or the right to use the asserted trade-mark in Kentucky or elsewhere, or that plaintiff had ever used it except in connection with the word "Armour," as "Armour's Star," admitting, however, that plaintiff's trade-mark has become known to the public as "Armour's Star." Both trade-mark infringement and unfair competition were denied. It appeared upon the hearing (with slight exceptions, the testimony was all taken in open court) that plaintiff's asserted "Star" trade-mark had never been used by it or its predecessor, except in connection with its best grade of hams and bacons; the name "Shield" being applied to its second grade, and the name "Banana" to its third or poorest grade, of hams and bacons. It also appeared that defendant's application for registration of its trade-mark "Southern Star" was, upon plaintiff's opposition, rejected by the Patent Office.[1]

The district judge filed a written opinion (275 Fed., 92) finding that as early as 1876 plaintiff and its predecessor had used continuously and very extensively, throughout the country, including Kentucky, the word "Star," in connection with the words "Armour & Co." or the word "Armour," and also the emblem of a star in connection with those words, upon vast quantities of its hams and bacons, and that since 1910 the defendant, with knowledge of such use by plaintiff, had itself used the words "Southern Star," in—

> combination with the emblem of a star, upon its hams and bacons and meats prepared in Louisville, Ky., and sold throughout that State,

to the extent of about 15 per cent of its product. The opinion was expressed that the word "Star" could not, standing alone, be the subject of a valid trade-mark, although it was recognized that the words "Armour's Star" might be; that it did not satisfactorily appear from the testimony that—

> there had been established in the public mind a secondary meaning of the word "Star";

that not only could not the use of defendant's mark "Southern Star" infringe the use of a trade-mark "Armour's Star," but that the testimony failed satisfactorily to show that any purchaser had been deceived—

> into the use of any of defendant's hams or bacons, or into any purchase thereof as those of plaintiff instead of those of defendant.

There was conclusion of noninfringement of trade-mark and lack of unfair competition. The opinion seems thus sufficiently summarized for present purposes.

[1] Plaintiff asserts no trade-mark in the words "Armour's Star." It bases its right to relief squarely upon the proposition that its actual trade-mark was "Star," either as a word or as a symbol, and that not only was such trade-mark valid originally, but that it has acquired a secondary meaning as indicating plaintiff's product. We think that, at least by direct analogy to words such as "Queen," "Monarch," "Victor," "Pillsbury's Best," the word "Star," or a symbol thereof, should be regarded as fanciful and as suggestive, rather than as purely descriptive, and thus as capable of being made the subject of a valid trade-mark, if not already exclusively appropriated. (*Thomas G. Plant Co.* v. *May Co.*, C. C. A., 6; 105 Fed., 375, 378 et seq.; 44 C. C. A., 534; *Menendez* v. *Holt*, 128 U. S., 514, 520; 9 Sup. Ct., 143; 32 L. Ed., 526; 46 O. G., 971.) And such view seems to accord with Patent Office practice.

[2, 3] We also think such word would not necessarily be invalid merely because applied to but one grade of plaintiff's manufactured product. (*Dixie* v. *Stearns*, C. C. A., 7; 185 Fed., 431, 434; 107 C. C. A., 501.) And we do not doubt that the

[1] We have not attempted to summarize either the bill or answer further than essential to the proper disposition of the case.

adoption of the word "Star," or a symbol thereof, would not fail of creating a valid trade-mark merely because used in association with the name of the manufacturer, or other words not adopted as part of the trade-mark. (*Layton* v. *Church*, C. C. A., 8; 182 Fed., 24, 29; 104 C. C. A., 464.)

[4–6] But, as applied to the case before us, the question whether plaintiff or its predecessor actually adopted as its trade-mark the word "Star," or a symbol thereof, as distinguished from a trade-mark "Armour's Star," is distinctly one of fact, the affirmative of which plaintiff has the burden of establishing. In our opinion, plaintiff has not sustained this burden. Its asserted adoption of the word or symbol "Star" as a trade-mark is not admitted by defendant. There is no direct testimony (by any one claiming personal knowledge) as to the fact of such original adoption. Nor is such adoption confirmed by proof of registration. Not that registration creates a trade-mark, or is at all essential to its validity; its existence, however, might afford some evidence of the identity of the trade-mark as asserted at the time of registration. There is testimony on the part of several witnesses, the most prominent being employees or representatives of plaintiff, that from the time of the earliest knowledge of the respective witnesses Armour & Co. had used the symbol or mark of the "Star" on their highest grades of hams and bacons, and that such practice has been continued until the present time, and that in the mind of the public, during the time covered by the testimony of these witnesses, "Star" ham and "Star" bacon—

> as gathered from conversations with dealers and consumers, always meant Armour's Star ham and Armour's Star bacon;

but it is satisfactorily established by the testimony of plaintiff's representatives that in Armour & Co.'s labels, brands, and advertising matter generally, including also its large display cards, the name given was always "Armour's Star" ham, or "Armour's Star" bacon, as the case might be—no use of the word "Star" (or its symbol), except as directly preceded by the word "Armour's," being shown; that about the year 1906 plaintiff adopted the blue and yellow label, which reads "Armour's Star Ham, selected stock, mild cure. Armour & Co.," and that such label has been in use ever since; that since about the year 1916 no symbol star has been used on any of Armour & Co.'s advertisements, either labels or burning brand (none of plaintiff's witnesses carry their knowledge of plaintiff's trade-mark back of the year 1886 or 1887). Indeed, one of plaintiff's directors says:

> Our advertising has been confined exclusively to the "Star" brand, "Armour's Star," using the word "Star," or symbol star, in connection with the word "Armour's," in connection with our choicest hams and bacons, our highest grade. "Armour's Star" is indicative of our choicest grade.

Moreover, it would seem unnatural that plaintiff and its predecessor should deliberately adopt the word "Star" (or its symbol) as its sole trade-mark, in view of the fact that other manufacturers had previously used or were using the star trade-mark in connection with hams and bacons. It affirmatively appeared by the bill of complaint that as early as 1875 one Baltz, of Chicago, merchandised hams and bacon under the trade-mark "Star of the West," and plaintiff asserts that in 1893 it purchased this trade-mark. It also appears that about the year 1870 George F. Davis & Co., of Cincinnati, adopted a brand in connection with the sale of hams and bacon consisting of a five-pointed star, with the symbol of a star in one of the points thereof, which Davis & Co. apparently called their "Star Brand," and that this trade-mark was so used by Davis & Co. until they went out of business in 1887 or 1888, afterwards being used by Jacob Vogel & Son, of Cincinnati, who are said to still use it.

True, the fact of actual sale of the trade-mark by Davis to Vogel is largely hearsay, and it does not affirmatively appear that the sale was accompanied by a transfer of the business, although that is perhaps inferable, and thus Vogel & Son may have acquired no legal right to the use of the mark; also, neither Davis nor Vogel may have had any trade in Louisville, but presumably plaintiff was fully aware of the use of this trade-mark in connection with sales of hams and bacon in a by no means negligible portion of the territory covered by plaintiff's trade. It would thus be unnatural that plaintiff should adopt its now asserted trade-mark without distinguishing the product as "Armour's Star," or in other appropriate way.[2] Moreover, defendant presented a large amount of credible testimony, especially on the part of retail dealers, to the effect that Armour's name was better known than the word "Star"; that Armour's Star was generally called for by that name, and tending strongly to discredit the assertion that "Star" hams and "Star" bacon, without more, had come to indicate Armour's goods.

We conclude that plaintiff has not satisfactorily established the adoption and use of its alleged trade-mark "Star," except as part of a trade-mark "Armour's Star" (we have no occasion to decide whether the words "Armour's Star" would constitute a valid trade-mark); that the conclusion of the district judge that it did not satisfactorily appear from the testimony that a secondary meaning of the word "Star" in the public mind had been established cannot be rejected as against the weight of the evidence (*Carey* v. *Donohue*, C. C. A., 6; 209 Fed., 328, 333; 126 C. C. A., 254); that upon the facts hereinafter mentioned, in connection with the subject of unfair competition, defendant's use of its trade-mark "Southern Star" would not infringe the

[2] In the list of registered trademarks for hams and bacon by other manufacturers of "Star" brands (word or symbol or both), offered by defendant and excluded, but sent up with the record, appears one registered in 1870, one in 1872, another in 1873, together with the Davis & Company brand, as registered in 1874; some, and perhaps all, of these seem to antedate the claimed adoption of plaintiff's trademark. While this evidence was offered by way of certified copy of registration from the public records, and may be open to consideration upon the proposition we are now considering, we prefer to pass it by.

trade-mark "Armour's Star"; and that the district judge thus did not err in denying relief on account of the alleged trade-mark infringement.

[7] We may add, in this connection, that in our opinion it was not error to reject plaintiff's offer of the record of the Patent Office rejection of defendant's application for registration. Such rejection was clearly not an adjudication upon the fact question of what plaintiff's trade-mark actually was. It assumed to decide no questions other than whether defendant was entitled to the exclusive right to the words "Southern Star," or whether plaintiff's mark and defendant's mark were so similar as to be likely to confuse, or perhaps both those questions. See Trade-Mark Act of 1905, as amended (Comp. Stat., 1916, sec. 9485 et seq.).

[8, 9] As to unfair competition: In view of the conclusion reached as to plaintiff's established trade-mark, we think unfair competition was not satisfactorily established. To sustain a charge of unfair competition it must at least appear that defendant's conduct had a tendency (or was calculated) to palm off its goods as those of plaintiff. (*Goodyear Co.* v. *Goodyear Rubber Co.*, 128 U. S., 598, 604; 9 Sup. Ct., 166; 32 L. Ed., 535; 46 O. G., 122; *Howe Scale Co.* v. *Wyckoff*, 198 U. S., 118, 140; 25 Sup. Ct., 609; 49 L. Ed., 972; 116 O. G., 299; *Rathbone* v. *Champion Co.*, C. C. A., 6; 189 Fed., 26, 30; 110 C. C. A., 596; 37 L. R. A. (N. S.), 258.) The general principles applicable to cases of this nature are well understood. In their application each case must turn largely upon its own circumstances. About 15 per cent of defendant's product was wrapped and labeled. Except in the use of the word "Star," it would be difficult to construct labels more essentially different than those of plaintiff and defendant. Plaintiff's label is a comparatively small oval (or a circle), reading as already stated; the words "Armour's" and "Ham" being in blue letters upon a yellow field, and the word "Star" being in white letters upon a blue field. The other words are in black upon a yellow field. Plaintiff's name (not its address) appears in comparatively small letters at the foot of the label, which is decidedly lacking in ornamentation and is of dignified simplicity. Defendant's labels are comparatively large and quite elaborate. Each of those presented as characteristic have the words in prominent letters "Southern Star Brand," accompanied by a star in symbol. Defendant's name and address appear prominently upon the face of the labels. In the center of each label appears a farmyard scene. It is hard to believe that even the casual and careless purchaser would be deceived by defendant's labels into thinking they were purchasing plaintiff's goods. The remaining 80 to 85 per cent of defendant's product is sold unwrapped and merely skin-branded, as is a part of plaintiff's product. But here again, while the differences between the respective skin brands are not so marked as in the case of the labels upon the wrapped product they are nevertheless pronounced. Plaintiff's brand reads "Armour's Star U. S. Inspected and Passed Est. 2A"; the words being disposed in three parallel lines, "Armour's" being above the word "Star," which in turn is above the remaining words. Defendant's brand consists of a large, five-pointed star, across which are the words "Southern Star"; below these words, and still in the star, the word "Brand"; below the star the word "U. S.," on the line below "Inspected and Passed," and below (a fifth line) "Est. 995."

Having in mind that since about the years 1914 to 1916 no star symbol has been used on any of plaintiff's advertisements, labels, or brands, the testimony that when customers wanted defendant's goods they asked for "Southern Star," that Armour's name was better known than the word "Star," and that "Armour's Star" was generally called for by that name (thus tending to show that "Armour's" was the dominant portion of plaintiff's trade-mark); the fact that retailers and large consumers are not as easily deceived as the small and casual consumer; the statement of the District judge in his opinion (which we quote in the margin),[3] and the natural probability that, in cases where the ham or bacon was sold by the retailer cut in slices, the consumer would not be very likely to pay attention to the brands—we are not convinced that we would be warranted in setting aside the trial judge's conclusion of lack of tendency to deception or unfair competition. There is evidence tending to show deception (or perhaps attempted deception) on the part of some retailers; but, taking into account the entire record, we are unable to say with any confidence that defendant is responsible therefor. (*Rathbone* v. *Champion Co.*, supra, 189 Fed., at pages 32, 33; 110 C. C. A., 596; 37 L. R. A. (N. S.), 258.) Indeed, there is an abundance of apparently reliable testimony that defendant's goods have been sold both to dealers and consumers generally on their merits. The asserted fact that defendant's "Southern Star Brand" is inferior to plaintiff's "Star," and that it is sold at a less price and in active competition, has no appreciable tendency to show unfairness in competition.

[3] "* * * The testimony heard in plaintiff's behalf does not satisfactorily, and without mere inference or hearsay, show that any purchaser whatever, either for his own use or for sale to others, has been deceived into the use of any of defendant's hams or bacon, or into any purchase thereof as those of the plaintiff instead of those of the defendant. On the contrary, the fact that no person of ordinary intelligence was at all likely to be so deceived by defendant's brands and marks was shown clearly by the testimony of so many witnesses that further testimony on that phase of the case was stopped by the court, when quite a score of other witnesses were present ready to testify for defendant to the same effect. In the almost entire absence of any convincing testimony from the plaintiff on this point, the court thought further testimony thereon by the defendant unnecessary. In saying this, the court does not by any means overlook the testimony of the witnesses for the plaintiff. Quite the reverse, for we have reached these conclusions after a careful study of every part of that testimony, and especially as it bears upon the question of infringement and unfair competition." This quotation seems to make unnecessary further reference to plaintiff's contention that actual deception need not, as matter of law, be shown and that it is enough if defendant's labels are calculated to deceive.

Plaintiff complains that certain of its proffered testimony was improperly rejected. We think the result would not be different if consideration were given to everything fairly admissible.

The conclusion we have reached makes it unnecessary to consider the asserted defense of laches.

The decree of the district court is affirmed.

ON MOTION FOR REHEARING.

The petition for rehearing must be denied. One feature only of the petition seems to call for special mention. Our opinion states that—

> it is satisfactorily established by the testimony of plaintiff's representatives that in Armour & Co.'s labels, brands, and advertising matter generally, including also its large display cards, the name given was always "Armour's Star" ham, or "Armour's Star" bacon, as the case might be—no use of the word "Star" (or its symbol), except as directly preceded by the word "Armour's" being shown.

In challenge of the correctness of this statement, reference is made to Exhibit No. 25, described in the testimony as "containing the figure of a star and above it the words 'Armour & Co.,' and below it the word 'Chicago,'" which the testimony states "is a label we put on our wrapped hams and bacon from my earliest recollection up to about 1906" (the witness "first went with Armour & Co. in 1891, and went into the advertising department in 1896").

Exhibit No. 25 is not at hand, and inferably did not come up with the record. But that exhibit, as above described, is not enough to discredit the quoted statement in our opinion, nor change the conclusion there arrived at. The difference between "Armour & Co." and "Armour's" in that instance is not very significant. Indeed, the witness, immediately following his testimony as quoted above, identified "another paper containing a circular figure with a star in the center, and the word 'Star' written across the star, the word 'Armour's' above and other words beneath," which paper, called a sticker or notice, the witness says "was pasted on our wrapped hams, calling the attention of the public to the quality of the contents. It was used concurrently with the last exhibit" (Exhibit 25).

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

831,501, H. M. Dickinson, Candy-pulling machine, suit filed Aug. 23, 1923, D. C., E. D. Pa., Doc. 2817, *H. A. Hildreth v. L. Schutc.*

872,070. J. Lederer, Inverted gas burner, suit filed Aug. 27, 1923, D. C., E. D. Pa., Doc. 2819, *Welsbach Co. v. The Coleman Lamp Co.*

924,605. A. Gee, Manufacture of fashioned hosiery, suit filed Sept. 7, 1923, D. C., E. D. Pa., Doc. 2835. *Chipman Knitting Mills v. L. I. Robinson (Robinson Hosiery Mills).*

971,838, W. M. Fulton, Process of making tubular metal walls, suit filed Sept. 10, 1923, D. C., W. D. Wis., Doc. F. E. 45, *The Fulton Co. v. Zanesville Laboratories, Inc., et al.*

985,709, D. F. Shope, Method of waterproofing cement blocks, suit filed Sept. 7, 1923, D. C., E. D. Pa., Doc. 2833, *Shope Brick Co. et al. v. C. H. Coston.*

1,007,791, Morey & Brogden, Lamp sockets, suit filed Sept. 11, 1923, D. C., S. D. N. Y., Doc. E 27/107, *Pass & Seymour, Inc., v. Van Loon & Danzic, Inc.*

1,027,570, J. R. Sheldon, Comforter-filling machine; 1,370,411, Contrado, Swanson & Schwartz, Mattress-filling machine, suit filed Sept. 10, 1923, D. C., S. D. N. Y., Doc. E 27/105, *Triangle Kapok Machine Corp. v. Solinger Bedding Supply Co. et al.*

1,029,541, L. A. Haustetter, Dishwashing machine, suit filed July 26, 1923, D. C., D. Pa., Doc. 2801, *L. A. Haustetter et al. v. The Horn & Hardart Banking Co.*

1,084,820, T. Pescatore, System of transporting heavy loads of motor vehicles, suit filed Aug. 16, 1923, D. C., E. D. Pa., Doc. 2813, *G. Carleton v. Lapeer Trailer Corp.*

1,170,193, W. Rutan, Mechanism for operating hoistway doors; 1,177,251, J. A. Kearney, Guards for hoistway doors, suit filed Sept. 7, 1923, D. C., S. D. N. Y., Doc. E 27/103, *Gillis & Groghegan, Inc., v. Elian & Tavella (F. Elian & Co.).*

1,177,251. (See 1,170,193.)

1,230,865, R. P. Clark, Cover for fruit, suit filed Sept. 10, 1923, D. C., N. D. Ga., Doc. E 252, *R. P. Clark et al. v. The Corrugated Paper Products, Inc.*

1,329,658, H. Gernsback, Telephone headband; 1,447,969, F. Dietrich, Telephone head set, suit filed Sept. 13, 1923, D. C., S. D. N. Y., Doc. E 27/112, *C. Brandes, Inc., v. The Greeley-Madison Corp. et al.*

1,370,411. (See 1,027,570.)

1,447,969. (See 1,329,658.)

1,458,728, J. Sachs, Electric-appliance receiving and meter-protecting box or casing, suit filed Aug. 9, 1923, D. C., D. Pa., Doc. 2805, *J. Sachs et al. v. S. Schmukler.*

Re. 15,675, B. H. Skelly, Lubricating systems, suit filed Sept. 8, 1923, D. C., N. D. Ohio, E. D., Doc. 962, *The Bassick Mfg. Co. v. The Allyne-Zerk Co.*

Des. 59,983, B. H. Scotford, Lamp shades, suit filed Aug. 28, 1923, D. C., E. D. Pa., Doc. 2821, *B. H. Scotford v. A. Scherer (Patent Lamp Shade Co.).*

ADVERSE DECISIONS IN INTERFERENCE.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,413,409, T. H. Lackman, Packing ring, decided August 22, 1923, claim 1.

Pat. 1,417,197, H. W. Pleister, Expansion shield, decided September 8, 1923, claim 1.

TRADE-MARKS

OFFICIAL GAZETTE, OCTOBER 9, 1923.

[VOL. 315. No. 2.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 112,292. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. BOURJOIS & CO., INC., New York, N. Y., assignor to M. Tecla & Co., New York, N. Y., a Corporation of New York. Filed July 24, 1918.

TEKLA

Particular description of goods.—Face Powder.
Claims use since July, 1913.

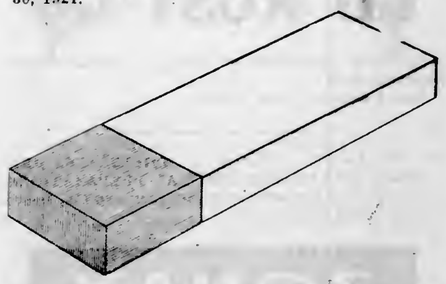
Ser. No. 123,798. (CLASS 37. PAPER AND STATIONERY.) JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J. Filed Oct. 15, 1919.



Applicant disclaims the representations of a pencil apart from the mark as shown. Trade-mark consists of a relatively short closed cap member having a reddish metallic luster.

Particular description of goods.—Pencils.
Claims use since 1905.

Ser. No. 145,483. (CLASS 37. PAPER AND STATIONERY.) THE WAHL COMPANY, Chicago, Ill. Filed Mar. 30, 1921.



The trade-mark consists of a red cover or top portion for a container for leads, the color being applied thereto as by painting, printing, and the like, and the parallel lines in the drawing illustrate the colored portion of said container. No claim is made herein broadly to the representation of a container per se.

Particular description of goods.—Leads and Lead Containers.
Claims use since Feb. 2, 1920.

Ser. No. 147,279. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) L. VAN DER HEYDEN A HAUZEUR, Paris, France. Filed May 6, 1921.

OCLÉAL

Particular description of goods.—Organs, Pianos, Harps, and Parts of Such Instruments.
Claims use since about Jan. 1, 1921.

Ser. No. 152,987. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE CINCINNATI LAMP & BRACKET COMPANY, now by change of name The Cino Auto Products Company, Cincinnati, Ohio. Filed Sept. 16, 1921.

INNER CONTROL

The applicant disclaims exclusive right to the words "Inner Control" except in the connection shown.
Particular description of goods.—Spotlights.
Claims use since June 1, 1921.

Ser. No. 160,860. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CANADIAN CONSOLIDATED CORPORATION, LIMITED, St. Catherines, Ontario, Canada. Filed Mar. 18, 1922.

VACTITE

Particular description of goods.—Copper-Clad Leading-In Wire for Electrical Purposes.
Claims use since on or about Mar. 4, 1922.

Ser. No. 161,034. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CAL-MET MFG. CO., Oakland, Calif. Filed Mar. 22, 1922.

Calmet

Particular description of goods.—Sheet-Metal Products—Namely, Soda-Fountain Equipment, Electrical Cooking Appliances, and Water Heaters.
Claims use since Nov. 15, 1921.

Ser. No. 163,586. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRED E. LAGERHOLM, doing business as The Rodex Company, Charlotte, N. C. Filed May 9, 1922.



Particular description of goods.—Rat Exterminator.
Claims use since about May 15, 1921.

Ser. No. 163,608. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE BECKLEY-RALSTON CO., Chicago, Ill. Filed May 10, 1922.



Particular description of goods.—Radioadapters for Connecting Radio Receiving Sets to Amplifying Chambers of Phonographs.
Claims use since Apr. 10, 1922.

Ser. No. 164,150. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ADVANCE WOOD TURNING CO., Chicago, Ill. Filed May 20, 1922.



Particular description of goods.—Electric Floor and Table Lamps.
Claims use since Mar. 1, 1921.

Ser. No. 164,151. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ADVANCE WOOD TURNING CO., Chicago, Ill. Filed May 20, 1922.

"ADVANCO PRODUCTS"

Particular description of goods.—Electric Floor and Table Lamps.
Claims use since Mar. 1, 1921.

Ser. No. 164,161. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. O. GABRIEL & SONS, Columbus Junction, Iowa. Filed May 20, 1922.

GO RUST GO

Particular description of goods.—A Preparation for Removing Rust.
Claims use since Jan. 1, 1922.

Ser. No. 164,996. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE AMERICAN CHEMICAL MANUFACTURING CO., Denver, Colo. Filed June 5, 1922.

ZONAX

Particular description of goods.—A Uric-Acid Solvent and Blood Purifier.
Claims use since June 14, 1921.

Ser. No. 165,137. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HUNT, HATCH & CO., Oakland, Calif. Filed June 7, 1922.

PRIZE BRAND

The word "Brand" does not form a part of the registration sought apart from the mark shown in the drawing.
Particular description of goods.—Fresh Fruit—viz, Oranges, Lemons, Apples, Pears, Cantaloupes, and Fresh Vegetables—viz, Asparagus.
Claims use since 1906.

Ser. No. 165,434. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WALNUT GROWERS SPRAY MANUFACTURING COMPANY, Los Angeles, Calif. Filed June 12, 1922.

Nico-sulphur-dust

No claim is made to the words "Sulphur Dust" apart from the mark shown.
Particular description of goods.—Insecticides.
Claims use since Apr. 20, 1920.

Ser. No. 166,142. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAM-TE MFG. CO., Oklahoma, Okla. Filed June 27, 1922.

L.P.A

Particular description of goods.—Shaving Lotions.
Claims use since May 1, 1922.

Ser. No. 167,409. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SIDNEY MCHARG, Calexico, Calif. Filed July 26, 1922.

CHAMPAGNE

Particular description of goods.—Cantaloupes in Their Natural State and Lettuce.
Claims use since June 6, 1922.

Ser. No. 167,636. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE ICY-HOT BOTTLE COMPANY, Cincinnati, Ohio. Filed July 31, 1922.

ICY-HOT

Particular description of goods.—Bottles, Jars, Carafes, Jugs; Coffee, Tea, Chocolate, and Other Pots and Pitchers; Flasks, Tankards; Containers for Solid, Liquid, and Viscous Foods and Casings and Cups Therefor and Supports, Brackets, Stands, Handles, Holders, and Trays for the Same; Salt Shakers, Pepper Shakers, Table Knives, Table Forks, Tablespoons, Sugar Spoons, Pickle Forks, Tableware and Serving Utensils, and Lunch Boxes, Made Wholly or in Part of Precious Metal or Plated or Ornamented with the Same.
Claims use since Apr. 1, 1908, on bottles, jars, flasks, containers for solid, liquid, and viscous foods, casings, and cups; for said lunch boxes since Jan. 1, 1909; for said carafes since Feb. 1, 1911; for said supports, brackets, stands, handles, holders, and trays since Sept. 1, 1912; and for said jugs, pots, pitchers, tankards, salt shakers, pepper shakers, table knives, table forks, tablespoons, sugar spoons, pickle forks, and tableware and serving utensils since Jan. 1, 1913.

Ser. No. 167,637. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) THE ICY-HOT BOTTLE COMPANY, Cincinnati, Ohio. Filed July 31, 1922.

ICY-HOT

Particular description of goods.—Plates, Cups, Jugs, and Dishes of China, Porcelain, and Earthenware.
Claims use since Jan. 1, 1913.

Ser. No. 167,830. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ROGERS ELECTRIC COMPANY, INC., Miles City, Mont. Filed Aug. 4, 1922.

PERFECURL

Particular description of goods.—Electrical Curling Irons.
Claims use since Mar. 1, 1922.

Ser. No. 171,278. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) L. S. MAYER, GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Frankfort-on-the-Main, Germany. Filed Oct. 27, 1922.



Particular description of goods.—Jewelry and Ware of Gold and Silver for Personal Wear, Not Including Watches—Namely, Brooches, Finger Rings, Earrings, Bracelets, Chain-Mail Bags, Cigarette Cases, and Pencils, and Flat and Hollow Tableware, Toilet Ware.
Claims use since March, 1920.

Ser. No. 171,402. (CLASS 37. PAPER AND STATIONERY.) H. P. ANDREWS PAPER COMPANY, New York, N. Y. Filed Oct. 31, 1922.

Kopyall

Particular description of goods.—Paper Suitable for Making Copies from Stencil Impressions.
Claims use since November, 1918.

Ser. No. 171,406. (CLASS 37. PAPER AND STATIONERY.) H. P. ANDREWS PAPER COMPANY, New York, N. Y. Filed Oct. 31, 1922.

MENICOPY

Particular description of goods.—Paper Suitable for Making Copies from Stencil Impressions.
Claims use since November, 1918.

Ser. No. 173,517. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) LOUISIANA BROOM MANUFACTURERS ASSOCIATION, New Orleans, La. Filed Dec. 18, 1922.



No claim is made to the words "Guaranteed in Every Way" or "Made According to Southern Standard" apart from the mark as shown on the drawing.
Particular description of goods.—Brooms.
Claims use since Oct. 26, 1922.

Ser. No. 173,758. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ETABLISSEMENTS POULENC FRÈRES, Paris, France. Filed Dec. 23, 1922.

GELO DISQUES

Particular description of goods.—A Chemical Product Used to Convey Vaccines.
Claims use since Mar. 14, 1922.

Ser. No. 175,050. (CLASS 32. FURNITURE AND UPHOLSTERY.) ATLAS FURNITURE COMPANY, Jamestown, N. Y. Filed Jan. 25, 1923.



The words "Jamestown, N. Y." and "Inc. 1883" are disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Sofas, Divans, Dressers, Vanities, Dressing Tables, Night Tables, Wardrobes, Chifferettes, and Household Chairs.
Claims use since Jan. 1, 1909.

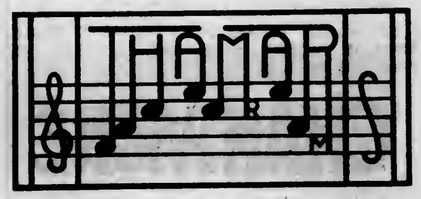
Ser. No. 175,528. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. ELMER SMITH, doing business as Claresa Chemical Works, Irwin, Pa. Filed Feb. 3, 1923.

CLARESA



The portrait is merely fanciful.
Particular description of goods.—Rust Removers, Laundry Sour or Bleach, Rouge, Face Powder, and Face-Powder Compacts.
Claims use since July 26, 1922.

Ser. No. 175,576. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BEATRICE CORDELIA AUCHMUTY TOZER, London, England. Filed Feb. 5, 1923.



Particular description of goods.—Face Creams, Lotions, Preparations for Removing Superfluous Hair, Rouges, Hair Lotions, Preparations for Preventing Sunburn, Face Powder, Eyelash and Eyebrow Growers (Creams and Liquid), Eyelash and Eyebrow Coloring, Tooth Powder and Paste, Nail Polishes, Hand-Beautifying Preparations, Cuticle Creams, Reducing Bath Salts, and Perfumes.
Claims use since May 28, 1921.

Ser. No. 176,340. (CLASS 11. INKS AND INKING MATERIALS.) RALPH W. GRAUERT, doing business as R. W. Grauert Co., New York, N. Y. Filed Feb. 20, 1923.

R W
G
N Y

Particular description of goods.—Bronze, Aluminum, Black, White, and Color Stamping Leaf for Use on Hot Press.
Claims use since Aug. 28, 1919.

Ser. No. 176,504. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE SCOTT & FETZER COMPANY, Cleveland, Ohio. Filed Feb. 23, 1923.

FAIRY-VAC

Particular description of goods.—Electric Sweepers and Cleaners.
Claims use since Jan. 29, 1923.

Ser. No. 176,578. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) DANIEL SMILO, New York, N. Y. Filed Feb. 24, 1923.

LUXOR

Particular description of goods.—Pearls, Necklaces, Bracelets, and Earrings.
Claims use since Feb. 1, 1923.

Ser. No. 176,593. (CLASS 39. CLOTHING.) BEAR BRAND HOSIERY CO., Chicago, Ill. Filed Feb. 26, 1923.

LASALLE

Particular description of goods.—Hosiery.
Claims use since July 14, 1922.

Ser. No. 176,594. (CLASS 39. CLOTHING.) BEAR BRAND HOSIERY CO., Chicago, Ill. Filed Feb. 26, 1923.

MARQUETTE

Particular description of goods.—Hosiery.
Claims use since Dec. 9, 1922.

Ser. No. 176,792. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE EASTERN SPECIALTY COMPANY, Philadelphia, Pa. Filed Mar. 1, 1923.

TESCO

Particular description of goods.—Electrical Instruments for Central-Station Uses—Namely, Artificial Load Transformers, Testing Switches, and Multiple Contactors Adapted for Testing Meters, Transformers, and the Like; Connectors, Terminal Lugs, Terminal Clips; Radio Receiving Sets and Parts Thereof—Namely, Variocouplers, Variometers, Condensers, Rheostats, and Transformers.
Claims use since Jan. 2, 1922.

Ser. No. 176,923. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY E. SPAYDE AND EDWARD B. RAUP, Sunbury, Pa. Filed Mar. 3, 1923.



Particular description of goods.—Medicine for Disorders of the Digestive Tract Embracing the Stomach, Liver, Kidneys, and the Colon.
Claims use since about Jan. 1, 1923.

Ser. No. 177,001. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE INABINE COMPANY, Corsicana, Tex. Filed Mar. 5 1923.

INABINE

Particular description of goods.—A Liquid Preparation for the Treatment of Kidney, Bladder, and Rheumatic Troubles.
Claims use since Feb. 1, 1913.

Ser. No. 177,114. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) STERLING IRON WORKS, INC., Stockton, Calif. Filed Mar. 7, 1923.

UNITYPE

Particular description of goods.—Electrically-Operated Deep-Well and Turbine Pumps.
Claims use since Mar. 18, 1922.

Ser. No. 177,217. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THOMAS CUSACK COMPANY, Chicago, Ill. Filed Mar. 10, 1923.

Thos. Cusack Co

Particular description of goods.—Electrically-Illuminated Signs.
Claims use since on or about June 2, 1904.

Ser. No. 177,425. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HORACE BYFORD, Seattle, Wash. Filed Mar. 14, 1923.

SEAL-O-BRAND



No claim is made to the word "Brand" apart from the mark shown.
Particular description of goods.—A Waterproofing Liquid Having a Combination of Uses.
Claims use since Dec. 15, 1922.

Ser. No. 177,725. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CALIFORNIA PHYSICIANS LABORATORIES, Oakland, Calif. Filed Mar. 20, 1923.

GLYCO-STIMULATUM

Particular description of goods.—A Bacterial Sugar Used in the Treatment of Various Pulmonary Diseases, Particularly Tuberculosis, Asthma, and Bronchitis, Also in the Form of a Wet Pack as a Local Application on Wounds or Sores.
Claims use since about July, 1922.

Ser. No. 178,225. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CUMBERLAND CHEMICAL CO., Nashville, Tenn. Filed Mar. 29, 1923.

CCC LAUXES TABLETS

No claim is made to exclusive use of the word "Tablets" aside from the mark shown.
Particular description of goods.—Tonic in Tablet Form for Treating Nervous Debility and Diseases of the Nerves.
Claims use since Jan. 2, 1917.

Ser. No. 178,368. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH ABRAMS, San Francisco, Calif. Filed Mar. 31, 1923.

Coco-Tar

No claim is made to the words "Coco-Tar" apart from the particular manner in which they are written.
Particular description of goods.—Shampoo.
Claims use since Aug. 1, 1922.

Ser. No. 178,418. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) WALTER VAN SANDS, doing business as Vantone Company, New York, N. Y. Filed Mar. 31, 1923.

Vantone

Particular description of goods.—Phonograph-Needle Holders for Sound Boxes.
Claims use since July 1, 1922.

Ser. No. 178,456. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTHWESTERN DISTRIBUTING CO., Billings, Mont. Filed Apr. 2, 1923.

MIDLAND CLUB

Particular description of goods.—Coffee.
Claims use since June, 1919.

Ser. No. 178,482. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) WALTER VAN SANDS, doing business as Vantone Company, New York, N. Y. Filed Apr. 2, 1923.

Deflexograph

Particular description of goods.—Phonograph-Needle Holders for Sound Boxes.
Claims use since July 1, 1922.

Ser. No. 179,007. (CLASS 11. INKS AND INKING MATERIALS.) CHARLES R. LEONARD, doing business as The C. R. Leonard Company, Seattle, Wash. Filed Apr. 11, 1923.

THE C. R. Leonard COMPANY

The distinctive feature of the mark is the facsimile of the signature of the applicant.
Particular description of goods.—Carbon Paper.
Claims use since Jan. 1, 1920.

Ser. No. 179,091. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELECTRAD CORPORATION OF AMERICA, New York, N. Y. Filed Apr. 13, 1923.

VARIOHM

Particular description of goods.—Variable Resistance Units—Namely, Rheostats and Variable Grid Leaks.
Claims use since Feb. 1, 1923.

Ser. No. 179,175. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) U. S. DISTRIBUTION CO., Saginaw, Mich. Filed Apr. 14, 1923.

'LIBERTY' PATCH

No claim made to the word "Patch" apart from the mark as shown.
Particular description of goods.—Sheet Rubber and Textile Rubber Patches.
Claims use since April, 1919.

Ser. No. 179,364. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DANZIGER-JONES, INC., New York, N. Y. Filed Apr. 19, 1923.

ACMEDYNE

Particular description of goods.—Radio Receiving Sets.
Claims use since Apr. 9, 1923.

Ser. No. 179,464. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GABRIEL FERMÉ, Paris, France. Filed Apr. 21, 1923.



The lining shown in the drawing is intended to represent shading. The words "Hydroxyde de Bismuth Radiferé" appearing in the drawing are disclaimed apart from the mark as shown.
Particular description of goods.—A Preparation for the Treatment of Syphilis.
Claims use since Jan. 7, 1922.

Ser. No. 179,512. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANNA HELEN ARLT, Brooklyn, N. Y. Filed Apr. 23, 1923.

Mme Arlt's HAND MADE Rouge

No claim is made to the words "Hand Made Rouge" apart from the mark shown.

Particular description of goods.—Rouge.

Claims use since 1918.

Ser. No. 179,733. (CLASS 39. CLOTHING.) L. & M. SYSTEM CLOTHES, INC., New York, N. Y. Filed Apr. 26, 1923.

PURE WOOL Lamco Overcoat Specialists

The words "Pure Wool" and "Overcoat Specialists" are not herein claimed apart from the mark shown.

Particular description of goods.—Overcoats and Suits.

Claims use since about Mar. 29, 1923.

Ser. No. 179,791. (CLASS 39. CLOTHING.) JOHN W. HADFIELD CO., Philadelphia, Pa. Filed Apr. 27, 1923.

TRU-LOCK

Particular description of goods.—Hosiery.

Claims use since about September, 1921.

Ser. No. 179,942. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LARKIN CO. INC., Buffalo, N. Y. Filed Apr. 30, 1923.

MENTO KANFO

Particular description of goods.—Medicated Ointments or Salves for External Use for the Alleviation of Catarrh, Colds, Hay Fever, Headache, Sore Throat, Tonsillitis, Muscular Stiffness, Neuralgia, Cuts, Bruises, Chilblains, Eczema, Insect Bites or Plant Poisoning, Sores, Rash and Irritations of the Skin, Piles, Influenza, and Analogous Ailments.

Claims use since Apr. 19, 1923.

Ser. No. 180,253. (CLASS 27. HOROLOGICAL INSTRUMENTS.) VEREINIGTE FREIBURGER UHRENFABRIKEN A.-G. INCL. VORM. GUSTAV BECKER, Freiburg, Germany. Filed May 5, 1923.

G B

Particular description of goods.—Clocks, Clock Works, and Parts Thereof.

Claims use since 1870.

Ser. No. 180,264. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE BALDWIN COMPANY, Cincinnati, Ohio. Filed May 7, 1923.

MONARCH

Particular description of goods.—Pianos, Player Pianos, and Piano Players.

Claims use since about 1903.

Ser. No. 180,306. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) THE ALDEN SPEARE'S SONS CO., Chicago, Ill. Filed May 7, 1923.

CROSS BAND NETS

Applicant disclaims exclusive rights to the word "Nets" apart from the mark shown in the drawing.

Particular description of goods.—Laundry Nets or Bags.

Claims use since Mar. 4, 1923.

Ser. No. 180,362. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHRISTIE-WILLIAMS CO., Trenton, N. J. Filed May 9, 1923.

PORCELITE

Particular description of goods.—Electric-Lighting Brackets and Ceiling Fixtures.

Claims use since Feb. 20, 1921.

Ser. No. 180,478. (CLASS 11. INKS AND INKING MATERIALS.) BENJAMIN JABLONOWER, New York, N. Y. Filed May 11, 1923.

TWINK LINK THE INSTANT INK

No claims are asserted to the exclusive use of the phrase "The Instant Ink" except as associated with the other features of the trade mark.

Particular description of goods.—Writing Ink and Ink Powders, Ink Capsules, and Ink Tablets for Writing Inks.

Claims use since Apr. 28, 1923.

Ser. No. 180,559. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE SCOTT & FETZER COMPANY, Cleveland, Ohio. Filed May 12, 1923.

RADIO-VAC

Particular description of goods.—Nonelectric Sweepers and Cleaners.

Claims use since Apr. 27, 1923.

Ser. No. 180,705. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE COLIN B. KENNEDY COMPANY, St. Louis, Mo. Filed May 16, 1923.

K

The lining on the drawing does not indicate color.

Particular description of goods.—Radio Receiving Sets and Parts Thereof.

Claims use since Apr. 1, 1923.

Ser. No. 180,707. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDGAR P. LEWIS, Boston, Mass. Filed May 16, 1923.

AURORA

Particular description of goods.—Hard Candles.
Claims use since Mar. 25, 1923.

Ser. No. 180,730. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) THE WILLIAMSON HEATER COMPANY, Cincinnati, Ohio. Filed May 16, 1923.

SUNSHINE

Particular description of goods.—Heated Cabinet Laundry Driers.
Claims use since Apr. 16, 1923.

Ser. No. 180,736. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES J. BACH, doing business as Io Thyro Chocolate Company, Milwaukee, Wis. Filed May 17, 1923.

Io-Thyro

Particular description of goods.—Goiter Preventive.
Claims use since Feb. 1, 1923.

Ser. No. 180,821. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) THE WILLIAMSON HEATER COMPANY, Cincinnati, Ohio. Filed May 18, 1923.

SNOW WHITE

Particular description of goods.—Heated Cabinet Laundry Driers.
Claims use since July, 1922.

Ser. No. 180,944. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RUBBER PROCESS CORPORATION, Detroit, Mich. Filed May 21, 1923.

BIGGER'S
B L T

Particular description of goods.—A Chemical Compound Relating to the Treatment, Manufacture, and Use of Rubber and Rubber Products.
Claims use since Feb. 1, 1922.

Ser. No. 181,009. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHARLES A. BIRCHFIELD, New York, N. Y. Filed May 23, 1923.

BIRCH-FIELD
AERADIO

Particular description of goods.—Radio Receiving Apparatus and Parts Thereof.
Claims use since Aug. 1, 1922.

Ser. No. 181,015. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE DUOPHONE SYNDICATE LIMITED, London, England. Filed May 23, 1923.

DUOPHONE

Particular description of goods.—Talking Machines.
Claims use since Mar. 10, 1921.

Ser. No. 181,095. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES G. WALLACE, New York, N. Y. Filed May 24, 1923.

THROATINE

Particular description of goods.—Tablets for Use in Aiding Indigestion and Also for Bronchitis, Influenza, Croup, Whooping Cough, Quinsy, Diphtheritic Sore Throat, Difficult Breathing, Etc.
Claims use since Feb. 1, 1923.

Ser. No. 181,154. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SUSQUEHANNA SILK MILLS, New York, N. Y. Filed May 25, 1923.

CHAMOIS
Suskana
FAILLE

Exclusive use of the words "Chamois Faille" is disclaimed apart from the mark as shown.
Particular description of goods.—All-Silk Piece Goods.
Claims use since Mar. 30, 1922.

Ser. No. 181,155. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SUSQUEHANNA SILK MILLS, New York, N. Y. Filed May 25, 1923.

OXFORD
Suskana
CREPE

Exclusive use of the word "Crepe" is disclaimed apart from the mark as shown.
Particular description of goods.—Silk and Wool Mixed Piece Goods.
Claims use since Dec. 23, 1920.

Ser. No. 181,165. (CLASS 39. CLOTHING.) BEAR BRAND HOSIERY CO., Chicago, Ill. Filed May 26, 1923.

Cheyenne

Particular description of goods.—Textile Articles—Namely, Hosiery.
Claims use since May 16, 1923.

Ser. No. 181,171. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOUE SOEURS, New York, N. Y. Filed May 26, 1923.

Quand
les
fleurs
rêvent

Particular description of goods.—Perfumes.
Claims use since Jan. 2, 1922.

Ser. No. 181,197. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LOLA MANUFACTURING CO., INC., doing business as Lola Gingham Mills, Stanley, N. C. Filed May 26, 1923.

LOLA

No claim whatsoever is made for the geographical name "Stanley, N. C." as a part of the trade-mark as shown on the drawing.
Particular description of goods.—Colored Cotton Piece Goods, Bleached and Dyed in the Yarn Cotton Piece Goods.
Claims use since May 1, 1923.

Ser. No. 181,394. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NORMAN M. HAGLER, doing business as Hagler-Allen Mfg. Company, Du Quoin, Ill. Filed May 31, 1923.

Electro

Particular description of goods.—Insecticide Powders.
Claims use since Apr. 27, 1923.

Ser. No. 181,530. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BENJAMIN F. KLEIN, doing business as Kayline Company, Cleveland, Ohio. Filed June 4, 1923.

TAUPENGOLD

Reserving all proper common-law rights, no claim is made to the exclusive right to the use of the word "Gold" other than in the association illustrated by the accompanying drawing.
Particular description of goods.—Electric-Light Fixtures.
Claims use since Jan. 15, 1923.

Ser. No. 181,531. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BENJAMIN F. KLEIN, doing busines as Kayline Company, Cleveland, Ohio. Filed June 4, 1923.

TAUPENSILVER

Reserving all proper common-law rights, no claim is made to the exclusive right to the use of the word "Silver" other than in the association illustrated by the accompanying drawing.
Particular description of goods.—Electric-Lighting Fixtures.
Claims use since Jan. 15, 1923.

Ser. No. 181,784. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SOUTH CHICAGO WHOLESALE GROCERY AND PRODUCE COMPANY, INC., South Chicago, Ill. Filed June 9, 1923.

State Line

Particular description of goods.—Canned Fruits—Namely, Pears, Pineapples, Peaches, Strawberries, Red Raspberries and Red Cherries; Canned Vegetables—Namely, Early June Peas, String Beans, Wax Beans, Lima Beans, Cut Beets, and Pork and Beans; and Canned Fish—Namely, Salmon.
Claims use since Feb. 1, 1923.

Ser. No. 181,840. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. A. MIGEL, INC., North Bergen, N. J., and New York, N. Y. Filed June 11, 1923.

"A MIGEL SILK"
VELVA-VELVET

No claim is made to the exclusive use of the expression "Velvet" nor the words "Originality" and "Quality" except when used in conjunction with other features of the mark. Exclusive use of the word "Silk" is disclaimed apart from the mark shown.
Particular description of goods.—Silk Velvets in the Piece.
Claims use since Mar. 14, 1923.

Ser. No. 182,189. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNITED CHEMICAL AND ORGANIC PRODUCTS CO., Chicago, Ill. Filed June 18, 1923.

Ucopco

Particular description of goods.—Gelatin.
Claims use since August, 1918.

Ser. No. 182,252. (CLASS 39. CLOTHING.) THE MALINE MILLS COMPANY, Winston-Salem, N. C. Filed June 20, 1923.

FIGLEAF

Particular description of goods.—Knit and Woven Underwear for Men, Women, and Children.
Claims use since Mar. 6, 1923.

Ser. No. 182,271. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SLEEPER RADIO CORPORATION, New York, N. Y. Filed June 20, 1923.

MONOTROL

Particular description of goods.—Radio Receiving Sets and Parts Thereof.
Claims use since Apr. 23, 1923.

Ser. No. 182,334. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CULLANDER MACHINERY CO., Belzoni, Miss. Filed June 22, 1923.

DIXIE

Particular description of goods.—Cotton Trampers.
Claims use since June 12, 1923.

Ser. No. 182,536. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN B. ELLISON & SONS, Philadelphia, Pa. Filed June 28, 1923.

PORAL

Particular description of goods.—Goods in the Piece Made from Wool, Worsted, Cotton, or Mixtures Thereof.
Claims use since 1907.

Ser. No. 182,547. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE OHIO BRASS COMPANY, Mansfield, Ohio. Filed June 28, 1923.

NEW BULLDOG

Particular description of goods.—Ears, Clamps, and Hangers for Suspending and Supporting Trolley Wires, Conductors, Cables, and Other Wires.
Claims use since Apr. 1, 1923.

Ser. No. 182,593. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LANDIS MACHINE COMPANY, Waynesboro, Pa. Filed June 29, 1923.



No claim is made to the representation of a cutter aside from its use in connection with the trade-mark as shown.
Particular description of goods.—Cutter Heads, Thread-Cutting Machines, and Cutters Therefor.
Claims use since Jan. 1, 1922.

Ser. No. 182,606. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE PIONEER RADIO CORPORATION, Galesburg, Ill. Filed June 29, 1923.

PIONEER RADIO CORPORATION

Particular description of goods.—Variometers and Variocouplers.
Claims use since April, 1922.

Ser. No. 182,636. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FRED A. WISH INCORPORATED, New York, N. Y. Filed June 29, 1923.

UNCLE WIGGILY

Particular description of goods.—Handkerchiefs and Cotton Goods in the Piece.
Claims use since Jan. 4, 1923.

Ser. No. 182,769. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE RAE-LITE MFG. CO., Baltimore, Md. Filed July 3, 1923.

RAE-LITE

Particular description of goods.—Electric Parking Lamps.
Claims use since Dec. 1, 1922.

Ser. No. 182,819. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JERSEY SILK MILLS, New York, N. Y. Filed July 5, 1923.

TRUHU

Particular description of goods.—Silk, Artificial Silk, Silk and Artificial Silk, Silk and Wool, Silk and Cotton, Piece Goods.
Claims use since Mar. 30, 1920.

Ser. No. 182,927. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) OSAKEYHTIO BIRGER HALLMAN, LTD., Kuopio, Finland. Filed July 7, 1923.

ALASTARO

Particular description of goods.—Matches.
Claims use since Aug. 1, 1921.

Ser. No. 182,966. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FANSTEEL PRODUCTS COMPANY, INC., North Chicago, Ill. Filed July 9, 1923.

Balkite

Particular description of goods.—Battery Chargers.
Claims use since May 1, 1923.

Ser. No. 183,131. (CLASS 37. PAPER AND STATIONERY.) A/S BLYANTFABRIKKEN VIKING, Copenhagen, Denmark. Filed July 13, 1923.

PARTHÉNON

Particular description of goods.—Pencils.
Claims use since August, 1921.

Ser. No. 183,144. (CLASS 39. CLOTHING.) FRIEDMAN BROS. & SONS NECKWEAR CO. INC., New York, N. Y. Filed July 13, 1923.

Bambalina Bows

No claim is made to the word "Bows."
Particular description of goods.—Ties, Cravats, Four-in-Hand Ties, and Bow Ties.
Claims use since April, 1923.

Ser. No. 183,162. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PREMIER ELECTRIC COMPANY, Chicago, Ill. Filed July 13, 1923.

HEGEHOG

Particular description of goods.—Audiofrequency Transformers.
Claims use since May 1, 1923.

Ser. No. 183,198. (CLASS 39. CLOTHING.) CRIPPEN & REID, Baltimore, Md. Filed July 14, 1923.

ALAN-A-DALE

Particular description of goods.—Boys' Suits.
Claims use since July 9, 1923.

Ser. No. 183,231. (CLASS 39. CLOTHING.) ROGERS PEET COMPANY, New York, N. Y. Filed July 14, 1923.



Particular description of goods.—Men's and Boys' Overcoats and Suits.
Claims use since May 26, 1923.

Ser. No. 183,349. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WHITMAN SYMMES, San Francisco, Calif. Filed July 17, 1923.

DETACHOLET

Particular description of goods.—Electrical Outlet Fixtures.
Claims use since Aug. 1, 1921.

Ser. No. 183,350. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WHITMAN SYMMES, San Francisco, Calif. Filed July 17, 1923.

DETACHOLIER

Particular description of goods.—Electrical Outlet Fixtures.
Claims use since Aug. 1, 1921.

Ser. No. 183,393. (CLASS 45. BEVERAGES, NONALCOHOLIC.) EDMUND MEYER, doing business as Fortuna Water Company, San Francisco, Calif. Filed July 18, 1923.

FORTUNA

Particular description of goods.—Mineral Water.
Claims use since Jan. 15, 1923.

Ser. No. 183,443. (CLASS 45. BEVERAGES, NONALCOHOLIC.) A. M. DODGE, INC., Stuart and Lake Worth, Fla. Filed July 19, 1923.



Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since Feb. 1, 1922.

Ser. No. 183,505. (CLASS 37. PAPER AND STATIONERY.) SCHMIDT & AULT PAPER CO., York, Pa. Filed July 20, 1923.



Particular description of goods.—Box Board.
Claims use since Apr. 6, 1923.

Ser. No. 183,559. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DELANO, POTTER & COMPANY, INC., Boston, Mass. Filed July 23, 1923.

SPRING MORNING

Particular description of goods.—Tea.
Claims use since Jan. 2, 1920.

Ser. No. 183,653. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DANIEL J. HOYE, Detroit, Mich. Filed July 25, 1923.

End-O-Let

Particular description of goods.—Insulating Separator for Electrical Conductors.
Claims use since June 1, 1923.

Ser. No. 183,694. (CLASS 45. BEVERAGES, NONALCOHOLIC.) CALIFORNIA BOTTLING ASSOCIATION, San Francisco, Calif. Filed July 26, 1923.

ROCKRIDGE

Particular description of goods.—An Alkaline Nonpurgative Table Water.
Claims use since Apr. 1, 1923.

Ser. No. 183,715. (CLASS 37. PAPER AND STATIONERY.) MCLAURIN-JONES CO., Brookfield, Mass. Filed July 26, 1923.

EVER-WARE

Particular description of goods.—Chocolate-Dipping Paper.
Claims use since Apr. 27, 1923.

Ser. No. 183,716. (CLASS 37. PAPER AND STATIONERY.) MCLAURIN-JONES CO., Brookfield, Mass. Filed July 26, 1923.

PRUV-BEST

Particular description of goods.—Proofing Paper.
Claims use since Apr. 16, 1923.

Ser. No. 183,854. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) REID, MURDOCH & CO., Chicago, Ill. Filed July 30, 1923.

LALLA ROOKH



Particular description of goods.—Tea.
Claims use since about May 1, 1893.

Ser. No. 183,855. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) REID, MURDOCH & CO., Chicago, Ill. Filed July 30, 1923.



Particular description of goods.—Tea.
Claims use since about May 1, 1893.

Ser. No. 183,904. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BETTERTON-RUPERT COFFEE CO., Ashland, Ky. Filed Aug. 1, 1923.



No claim is made to the exclusive use of the words "Double Jointed Peanuts" apart from the mark as shown in the drawing.

Particular description of goods.—Roasted Peanuts.

Claims use since July 1, 1916.

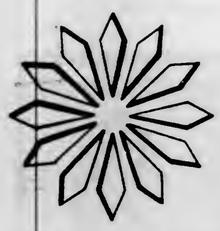
Ser. No. 183,940. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) REID, MURDOCH & CO., Chicago, Ill. Filed Aug. 1, 1923.



Particular description of goods.—Tea.

Claims use since about May 1, 1893.

Ser. No. 184,018. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) CANUET FRÈRES, Paris, France. Filed Aug. 3, 1923.



Particular description of goods.—Beads and Metal Spangles.

Claims use since 1867.

Ser. No. 184,034. (CLASS 39. CLOTHING.) MAVIS HOSIERY COMPANY, INC., New York, N. Y. Filed Aug. 3, 1923.

Undahose

Particular description of goods.—Stockings.

Claims use since July 16, 1923.

Ser. No. 184,051. (CLASS 39. CLOTHING.) B. ALTMAN & CO., New York, N. Y. Filed Aug. 4, 1923.

Fun Frock

No claim is made to the word "Frock" apart from the mark shown.

Particular description of goods.—Children's Dresses.

Claims use since July 23, 1923.

Ser. No. 184,054. (CLASS 39. CLOTHING.) APPEL-HALL, Philadelphia, Pa. Filed Aug. 4, 1923.



The phrase "Best Knit and Fit" is disclaimed except as associated with the other features of the trade-mark. The lining shown on the drawing indicates the color red.

Particular description of goods.—Sweaters, Cardigan Jackets, Bathing Suits.

Claims use since Oct. 1, 1918.

Ser. No. 184,068. (CLASS 39. CLOTHING.) THE DORMER BROTHERS COMPANY, Cincinnati, Ohio. Filed Aug. 4, 1923.



No claim is made to the words and abbreviations "Absolutely Clean Scoured—Extra Heels and Toes—Reg. U. S. Pat. Office" apart from the mark shown in the drawing.

Particular description of goods.—Hosiery.

Claims use since July 31, 1923.

Ser. No. 184,136. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE KELLUM COMPANY, Kansas City, Mo. Filed Aug. 6, 1923.



The word "Coffee" is disclaimed.

Particular description of goods.—Coffee.

Claims use since June 1, 1922.

Ser. No. 184,296. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAN DIMAS LEMON ASSOCIATION, San Dimas, Calif. Filed Aug. 10, 1923.



Particular description of goods.—Fresh Citrous Fruits.

Claims use since July 29, 1908.

Ser. No. 184,297. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAN DIMAS LEMON ASSOCIATION, San Dimas, Calif. Filed Aug. 10, 1923.



Particular description of goods.—Fresh Citrous Fruits.

Claims use since Apr. 23, 1913.

Ser. No. 184,299. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAN DIMAS LEMON ASSOCIATION, San Dimas, Calif. Filed Aug. 10, 1923.



Particular description of goods.—Fresh Citrous Fruits.

Claims use since Jan. 8, 1906.

Ser. No. 184,395. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE DRYOL CORPORATION, Atlanta, Ga. Filed Aug. 13, 1923.

DRYOL

Particular description of goods.—A Powdered Greasing Compound to Be Applied to Bread Pans, Drums of Bakers' Molding Machines, Dough Forms, and the Like.

Claims use since August, 1922.

Ser. No. 184,611. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. R. HAMILTON, Reedley, Calif. Filed Aug. 17, 1923.



The lining on the drawing is intended to denote the color red.

Particular description of goods.—Fresh Grapes.

Claims use since June 1, 1923.

Ser. No. 184,712. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHICAGO BEVERAGE CO., Chicago, Ill. Filed Aug. 20, 1923.



Particular description of goods.—Nonintoxicating, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups Used in the Preparation of Same.

Claims use since June 20, 1923.

Ser. No. 184,817. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JOHN FRIEDRICH, Philadelphia, Pa. Filed Aug. 22, 1923.

Blue Anchor Inn

Particular description of goods.—Ginger Ale, Sarsaparilla, and Root Beer.
Claims use since Feb. 1, 1922.

Ser. No. 184,967. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) J. G. FOX, Seattle, Wash. Filed Aug. 25, 1923.

Old Emerald

Particular description of goods.—Ginger Ale.
Claims use since July 9, 1923.

Ser. No. 185,124. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PABLO HURTADO, doing business as Hurtado Lemonol Co., Toledo, Ohio. Filed Aug. 29, 1923.

Lemonol

Particular description of goods.—Powdered Preparation for the Making of Soft Drinks.
Claims use since June 15, 1923.

Ser. No. 185,188. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) QUALTOP BEVERAGES INC., Rochester, N. Y. Filed Aug. 30, 1923.

Qualtop

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Feb. 1, 1915.

Ser. No. 185,189. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JOHN MARTIN RODGERS, doing business as Rodgers' Bottling Co., Vallejo, Calif. Filed Aug. 30, 1923.

DIMPLES

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since July 1, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

OCTOBER 9, 1923.

174,155. COTTON PIECE GOODS. MILLDALE TEXTILE CORPORATION, New York, N. Y.
Filed May 23, 1923. Serial No. 181,032. PUBLISHED JULY 17, 1923.

174,156. COTTON, DUCK, AND CANVAS PIECE GOODS. J. EINSTEIN, INC., New York, N. Y.
Filed May 18, 1923. Serial No. 180,793. PUBLISHED JULY 17, 1923.

174,157. KNITTED SILK FABRICS—VIZ. SILK KNITTED CLOTH IN THE PIECE. THE BANNER SILK KNITTING MILLS, INC., New York, N. Y.
Filed May 18, 1923. Serial No. 180,781. PUBLISHED JULY 17, 1923.

174,158. SILK FABRICS. CORTICELLI SILK COMPANY, Florence, Northampton, Mass.
Filed May 14, 1923. Serial No. 180,590. PUBLISHED JULY 17, 1923.

174,159. BASEBALL BATS. HILLERICH & BRADSBY CO., INC., Louisville, Ky.
Filed May 10, 1923. Serial No. 180,430. PUBLISHED JULY 17, 1923.

174,160. ROASTERS AND PARTS AND SUPPLIES FOR SAME FOR ROASTING FOOD PRODUCTS, SUCH AS COFFEE, COCOA, PEANUTS, CEREALS, ETC. JABEZ BURNS & SONS, New York, N. Y.
Filed May 8, 1923. Serial No. 180,325. PUBLISHED JULY 17, 1923.

174,161. CAN OPENERS. STAR CAN OPENER COMPANY, San Francisco, Calif.
Filed May 7, 1923. Serial No. 180,307. PUBLISHED JULY 17, 1923.

174,162. CORN SHELLERS. JOLIET MANUFACTURING COMPANY, Joliet, Ill.
Filed May 5, 1923. Serial No. 180,223. PUBLISHED JULY 17, 1923.

174,163. THERMOELECTRIC TEMPERATURE INDICATORS. THE SAFE-T-STAT CO., Philadelphia, Pa.
Filed May 3, 1923. Serial No. 180,143. PUBLISHED JULY 10, 1923.

174,164. FLUID-PRESSURE GAUGES, FLUID-PRESSURE INDICATORS, FLUID-PRESSURE REGULATORS, AND SOUNDING LEADS. A. SCHRADER'S SON, INCORPORATED, Brooklyn, N. Y.
Filed May 2, 1923. Serial No. 180,084. PUBLISHED JULY 10, 1923.

174,165. WORSTED YARN FABRIC KNOWN IN THE TEXTILE INDUSTRY AS "REPS." BOTANY WORSTED MILLS, Passaic, N. J.
Filed May 1, 1923. Serial No. 179,987. PUBLISHED JULY 17, 1923.

174,166. WORSTED YARN FABRIC KNOWN IN THE TEXTILE INDUSTRY AS "REPS." BOTANY WORSTED MILLS, Passaic, N. J.
Filed May 1, 1923. Serial No. 179,988. PUBLISHED JULY 17, 1923.

174,167. SHAVING BRUSHES. RUBBER & CELLULOID PRODUCTS COMPANY, doing business as Rubberset Company, Newark, N. J.
Filed April 30, 1923. Serial No. 179,962. PUBLISHED JULY 17, 1923.

174,168. GAME PLAYED WITH PIECES SOMEWHAT SIMILAR TO DOMINOES AND PARTS THEREOF. PUNG-CHOW COMPANY, INC., New York, N. Y.
Filed April 30, 1923. Serial No. 179,956. PUBLISHED JULY 17, 1923.

174,169. GAMES PLAYED WITH PIECES SOMEWHAT SIMILAR TO DOMINOES AND PARTS THEREOF. PUNG-CHOW COMPANY, INC., New York, N. Y.
Filed April 30, 1923. Serial No. 179,955. PUBLISHED JULY 17, 1923.

174,170. CERTAIN NAMED CLOTHING. AMERICAN LADY CORSET COMPANY, Detroit, Mich.
Filed April 30, 1923. Serial No. 179,916. PUBLISHED JULY 17, 1923.

174,171. SOFT DRINKS. WILLIAM MCKEE, Minneapolis, Minn.
Filed April 28, 1923. Serial No. 179,876. PUBLISHED JULY 17, 1923.

174,172. MEN'S ROBES. LEWIS-WISE CO., INC., New York, N. Y.
Filed April 28, 1923. Serial No. 179,873. PUBLISHED JULY 17, 1923.

174,173. CARBURETORS. GEORGE G. BROWN, New York, N. Y.
Filed April 27, 1923. Serial No. 179,774. PUBLISHED JULY 17, 1923.

174,174. APRON DRESSES. N. SIMON & CO., Chicago, Ill.
Filed April 26, 1923. Serial No. 179,748. PUBLISHED JULY 17, 1923.

174,175. OVERCOATS, RAINCOATS, SMOKING JACKETS, HOUSE COATS, NORFOLK JACKETS, TOPCOATS, GOLF SUITS, AND SPORT SUITS. HEIDELBERG, WOLFF & CO., New York, N. Y.
Filed April 26, 1923. Serial No. 179,722. PUBLISHED JULY 17, 1923.

174,176. CIGARS. JOHN C. HERMAN & COMPANY, Harrisburg, Pa.
Filed April 24, 1923. Serial No. 179,599. PUBLISHED JULY 17, 1923.

174,177. SOFT DRINKS. CHARLES G. DILLON, New York, N. Y.
Filed April 24, 1923. Serial No. 179,590. PUBLISHED JULY 17, 1923.

174,178. OPHTHALMIC MOUNTINGS AND PARTS THEREOF, SUCH AS BRIDGES, TEMPLES, ETC. OPTICAL SPECIALTY MANUFACTURING COMPANY, Southbridge, Mass.
Filed April 23, 1923. Serial No. 179,548. PUBLISHED JULY 10, 1923.

174,179. SOFT DRINKS. BEVERAGE EXTRACT COMPANY, Chicago, Ill.
Filed April 23, 1923. Serial No. 179,513. PUBLISHED JULY 17, 1923.

174,180. BAROMETERS. TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y.
Filed April 21, 1923. Serial No. 179,495. PUBLISHED JULY 10, 1923.

174,181. AUTO LOCKS. WILLIAMS & ROBECHAUD, Milwaukee, Wis.
Filed May 12, 1923. Serial No. 180,570. PUBLISHED JULY 10, 1923.

174,182. SAFES. STEELCRAFT CORPORATION OF AMERICA, Cleveland, Ohio.
Filed April 28, 1923. Serial No. 179,890. PUBLISHED JULY 10, 1923.

174,183. PHOTOGRAPHIC FILMS. ANSCO COMPANY, Binghamton, N. Y.
Filed April 9, 1923. Serial No. 178,807. PUBLISHED JULY 10, 1923.

174,184. PHOTOGRAPHIC FILMS. ANSCO COMPANY, Binghamton, N. Y.
Filed April 9, 1923. Serial No. 178,806. PUBLISHED JULY 10, 1923.

174,185. KNITTED SILK FABRICS—VIZ, SILK KNITTED CLOTH IN THE PIECE. THE BANNER SILK KNITTING MILLS, INC., New York, N. Y.
Filed May 18, 1923. Serial No. 180,784. PUBLISHED JULY 17, 1923.

174,186. PHOTOGRAPHIC FILMS. ANSCO COMPANY, Binghamton, N. Y.
Filed April 9, 1923. Serial No. 178,805. PUBLISHED JULY 10, 1923.

174,187. GAME KNOWN AS "TUTOOM," A TABLE GAME PLAYED WITH PIECES AND MARKED CUBES OR ROTARY COUNTER. ALDERMAN, FAIRCHILD COMPANY, Rochester, N. Y.
Filed May 24, 1923. Serial No. 181,050. PUBLISHED JULY 17, 1923.

174,188. SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed May 28, 1923. Serial No. 181,256. PUBLISHED JULY 17, 1923.

174,189. SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed May 28, 1923. Serial No. 181,255. PUBLISHED JULY 17, 1923.

174,190. FABRICS MADE OF SILK. GOLDING FABRICS CORPORATION, New York, N. Y.
Filed May 26, 1923. Serial No. 181,183. PUBLISHED JULY 17, 1923.

174,191. SILK PIECE GOODS. EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y.
Filed May 26, 1923. Serial No. 181,178. PUBLISHED JULY 17, 1923.

174,192. TEXTILE COTTON FABRICS—NAMELY, COTTON PIECE GOODS. AMORY, BROWNE & CO., Boston, Mass.
Filed May 25, 1923. Serial No. 181,103. PUBLISHED JULY 17, 1923.

174,193. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS. CHENEY BROTHERS, South Manchester, Conn.
Filed May 24, 1923. Serial No. 181,061. PUBLISHED JULY 17, 1923.

174,194. COTTON PIECE GOODS. TAYLOR, CLAPP & BEALL, New York, N. Y.
Filed May 23, 1923. Serial No. 181,048. PUBLISHED JULY 17, 1923.

174,195. CERTAIN NAMED PIECE GOODS. JACOB MILLER'S SONS CO., Philadelphia, Pa.
Filed May 23, 1923. Serial No. 181,036. PUBLISHED JULY 17, 1923.

174,196. CERTAIN NAMED PIECE GOODS. JACOB MILLER'S SONS CO., Philadelphia, Pa.
Filed May 23, 1923. Serial No. 181,034. PUBLISHED JULY 17, 1923.

174,197. CERTAIN NAMED PIECE GOODS. JACOB MILLER'S SONS CO., Philadelphia, Pa.
Filed May 23, 1923. Serial No. 181,033. PUBLISHED JULY 17, 1923.

174,198. LENSES, EYEGLASSES, AND SPECTACLES. NOEL SMITH, doing business as Miami Optical Co., Miami, Fla.
Filed May 18, 1923. Serial No. 180,815. PUBLISHED JULY 10, 1923.

174,199. PHOTOGRAPHIC SHUTTERS. EASTMAN KODAK COMPANY, Rochester, N. Y.
Filed May 19, 1923. Serial No. 180,846. PUBLISHED JULY 10, 1923.

174,200. FABRICS MADE OF SILK. GOLDING FABRICS CORPORATION, New York, N. Y.
Filed May 19, 1923. Serial No. 180,859. PUBLISHED JULY 17, 1923.

174,201. CERTAIN COTTON PIECE GOODS. NEUSS, HESSLEIN & CO., INC., New York, N. Y.
Filed May 19, 1923. Serial No. 180,882. PUBLISHED JULY 17, 1923.

174,202. COTTON PIECE GOODS. COHN HALL MARX CO., New York, N. Y.
Filed May 22, 1923. Serial No. 180,963. PUBLISHED JULY 17, 1923.

174,203. WOOLEN PIECE GOODS. THE FARNSWORTH MILLS INC., Central Village, Conn.
Filed May 22, 1923. Serial No. 180,969. PUBLISHED JULY 17, 1923.

174,204. OIL GAUGES. DAVID A. KAFKA, doing business as Midwest Auto Specialty Mfg. Co., St. Paul, Minn.
Filed May 23, 1923. Serial No. 181,029. PUBLISHED JULY 10, 1923.

174,205. TIRE-REPAIR COMPOUNDS, ADHESIVES FOR UNITING TO RUBBER, LEATHER, CLOTH, ETC., ADHESIVE CEMENTS AND RUBBER-MENDING CEMENTS, COMPOUNDS, AND ADHESIVES. CAHILL & MALONE, doing business as Everite Patch Company, Toledo, Ohio.
Filed April 26, 1923. Serial No. 179,708. PUBLISHED JULY 10, 1923.

174,206. LADIES' AND MISSES' DRESSES. ELIZABETH M. THOMAS, doing business as E. M. Thomas Company, St. Louis, Mo.
Filed April 25, 1923. Serial No. 179,688. PUBLISHED JULY 10, 1923.

174,207. TOILET PAPER. THE PEERLESS MFG. COMPANY, Norristown, Pa.
Filed April 25, 1923. Serial No. 179,679. PUBLISHED JULY 10, 1923.

174,208. POWDERED VEGETABLE GLUES. THE ARABOL MANUFACTURING CO., New York, N. Y.
Filed April 25, 1923. Serial No. 179,642. PUBLISHED JULY 10, 1923.

174,209. POWDERED VEGETABLE GLUES. THE ARABOL MANUFACTURING CO., New York, N. Y.
Filed April 25, 1923. Serial No. 179,641. PUBLISHED JULY 10, 1923.

174,210. HOSIERY. ROBISCHON CORPORATION, New York, N. Y.
Filed April 23, 1923. Serial No. 179,557. PUBLISHED JULY 10, 1923.

174,211. WORK SHIRTS AND OVERALLS. WASHINGTON MANUFACTURING CO., Nashville, Tenn.
Filed April 21, 1923. Serial No. 179,502. PUBLISHED JULY 10, 1923.

174,212. PYJAMAS. THE M. WILBER DYER COMPANY, New York, N. Y.
Filed April 21, 1923. Serial No. 179,463. PUBLISHED JULY 10, 1923.

174,213. TRANSPARENT CONTAINERS FOR FOOD PRODUCTS. PAGE & SHAW, INCORPORATED, Cambridge, Mass.
Filed April 20, 1923. Serial No. 179,424. PUBLISHED JULY 3, 1923.

174,214. MASSAGE PREPARATIONS OR TONICS FOR THE TREATMENT OF THE HEAD AND SCALP. VAN ESS LABORATORIES, INC., Chicago, Ill.
Filed July 3, 1922. Serial No. 166,487. PUBLISHED MAY 29, 1923.

174,215. LUBRICATING COMPOUNDS AND GREASES. OTIS CHEMICAL COMPANY, (NOT INC.), Chicago, Ill.
Filed May 24, 1923. Serial No. 181,087. PUBLISHED JULY 10, 1923.

174,216. VARNISH. FRANK BOWNES COMPANY, INC., Lynn, Mass.
Filed May 24, 1923. Serial No. 181,054. PUBLISHED JULY 10, 1923.

174,217. HORSE COLLARS. G. BEEND COMPANY, Macon, Ga.
Filed May 24, 1923. Serial No. 181,053. PUBLISHED JULY 10, 1923.

174,218. HOISTING ROPE AND CABLE. ATLANTIC ELEVATOR COMPANY, INC., Philadelphia, Pa.
Filed May 24, 1923. Serial No. 181,051. PUBLISHED JULY 10, 1923.

174,219. WRITING PAPER. FOX RIVER PAPER COMPANY, Appleton, Wis.
Filed May 22, 1923. Serial No. 180,975. PUBLISHED JULY 17, 1923.

174,220. TOILET PAPER, PAPER NAPKINS, PAPER TOWELS, AND PAPER TABLECLOTHS. FORT HOWARD PAPER COMPANY, Green Bay, Wis.
Filed May 22, 1923. Serial No. 180,972. PUBLISHED JULY 17, 1923.

174,221. TOILET PAPER, PAPER NAPKINS, PAPER TOWELS, AND PAPER TABLECLOTHS. FORT HOWARD PAPER COMPANY, Green Bay, Wis.
Filed May 22, 1923. Serial No. 180,971. PUBLISHED JULY 17, 1923.

174,222. PRINT PAPER, BOOK PAPER, BOND PAPER, AND WRITING PAPER, BRISTOL BOARD, AND CARDBOARD. THE J. W. BUTLER PAPER CO., Chicago, Ill.
Filed May 19, 1923. Serial No. 180,838. PUBLISHED JULY 10, 1923.

174,223. GINGER ALE. BARTOW BEVERAGES, INC., Nashville, Tenn.
Filed May 19, 1923. Serial No. 180,832. PUBLISHED JULY 10, 1923.

174,224. VARNISHES, VARNISH STAIN, ENAMELS, FLOOR ENAMELS, GRAINING COLOR, GOLD PAINT, SILVER PAINT, UNDERCOATS. SEWALL PAINT & GLASS COMPANY, Kansas City, Mo.
Filed May 18, 1923. Serial No. 180,814. PUBLISHED JULY 10, 1923.

174,225. PAPER CLIPS. NOESTING PIN TICKET COMPANY, INCORPORATED, Mount Vernon, N. Y.
Filed May 18, 1923. Serial No. 180,805. PUBLISHED JULY 10, 1923.

174,226. TRUNKS. OSTERWEIL BROS. INC., Newark, N. J.
Filed May 17, 1923. Serial No. 180,771. PUBLISHED JULY 10, 1923.

174,227. VARNISH FOR ALL INTERIOR AND EXTERIOR PURPOSES. BENJAMIN MOORE & CO., Jersey City, N. J., and Brooklyn, N. Y.
Filed May 17, 1923. Serial No. 180,769. PUBLISHED JULY 10, 1923.

174,228. FERTILIZER. GEORGE C. JONES INCORPORATED, New York, N. Y.
Filed May 16, 1923. Serial No. 180,704. PUBLISHED JULY 10, 1923.

174,229. STATIONERY—NAMELY, ENVELOPES, WRITING PAPER, PADS, DRAWING PAPER AND CARDBOARD, TISSUE PAPER, PENCILS. FRED A. WISH, INCORPORATED, New York, N. Y.
Filed May 14, 1923. Serial No. 180,641. PUBLISHED JULY 10, 1923.

174,230. METAL AND PAPER FANCY CONTAINERS AND BOXES. FRED A. WISH, INCORPORATED, New York, N. Y.
Filed May 14, 1923. Serial No. 180,638. PUBLISHED JULY 3, 1923.

174,231. CUTTING OIL. SMITH OIL & REFINING COMPANY, Rockford, Ill.
Filed May 14, 1923. Serial No. 180,629. PUBLISHED JULY 10, 1923.

174,232. WRITING PAPER. FOX RIVER PAPER COMPANY, Appleton, Wis.
Filed May 12, 1923. Serial No. 180,533. PUBLISHED JULY 10, 1923.

174,233. REFRIGERATION CABINETS. I. C. REFRIGERATION CO., New York, N. Y.
Filed May 11, 1923. Serial No. 180,477. PUBLISHED JULY 17, 1923.

174,234. METAL HOLDERS FOR PAPER DISHES AND DISPENSING RECEPTACLES FOR PAPER DISHES. THE VORTEX MFG. CO., Chicago, Ill.
Filed May 7, 1923. Serial No. 180,311. PUBLISHED JULY 3, 1923.

174,235. READY-MIXED PAINTS, VARNISHES, FILLERS, AND SHELLACS. S. JOSEPH & SON CO., Philadelphia, Pa.
Filed May 7, 1923. Serial No. 180,285. PUBLISHED JULY 10, 1923.

174,236. ICE BAGS AND SYRINGE FIXTURES. A. SCHRADER'S SON, INCORPORATED, Brooklyn, N. Y.
Filed May 5, 1923. Serial No. 180,243. PUBLISHED JULY 10, 1923.

174,237. WRITING PAPERS AND MAILING ENVELOPES AND PRINTING PAPERS. WHITING PAPER COMPANY, Holyoke, Mass.
Filed May 3, 1923. Serial No. 180,161. PUBLISHED JULY 3, 1923.

174,238. PASTE PAINT AND READY-MIXED PAINT. COLONIAL WORKS, Brooklyn, N. Y.
Filed May 3, 1923. Serial No. 180,097. PUBLISHED JULY 3, 1923.

174,239. AUTOMOBILE, PIANO, AND FURNITURE POLISH. ARTHUR N. SANDERSON, West Springfield, Mass.
Filed May 2, 1923. Serial No. 180,082. PUBLISHED JULY 3, 1923.

174,240. GREASE COMPOUND FOR LUBRICATING PURPOSES. ASBURY B. HUTTON, Philipsburg, Pa.
Filed May 1, 1923. Serial No. 180,009. PUBLISHED JULY 10, 1923.

174,241. REFRIGERATING APPARATUS. D. EDDY AND SONS COMPANY, Boston, Mass.
Filed May 1, 1923. Serial No. 179,994. PUBLISHED JULY 3, 1923.

174,242. PRINT PAPER, BOOK PAPER, COVER PAPER, WRITING PAPER, BOND PAPER, BRISTOL BOARD, CARDBOARD, AND THIN PAPERS USED FOR MANIFOLD-COPY WORK. THE J. W. BUTLER PAPER CO., Chicago, Ill.
Filed April 30, 1923. Serial No. 179,926. PUBLISHED JULY 17, 1923.

174,243. LADIES' HAND BAGS. BLUM & MITTENTHAL, New York, N. Y.
Filed April 28, 1923. Serial No. 179,847. PUBLISHED JULY 10, 1923.

174,244. CONDIMENT CONTAINERS MADE OF METAL, GLASS, OR METAL AND GLASS. CHARLES H. HAESELER, doing business as Alert Manufacturing Company, Philadelphia, Pa.
Filed December 2, 1922. Serial No. 172,834. PUBLISHED JULY 3, 1923.

174,245. WIRE ROPE AND WIRE CLOTHESLINE. G. F. WRIGHT STEEL & WIRE COMPANY, Worcester, Mass.
Filed September 15, 1922. Serial No. 169,510. PUBLISHED JULY 10, 1923.

174,246. METAL AND WOOD ASEPTIC FURNITURE FOR HOSPITALS, CLINICS, HEALTH CENTERS, AND DOCTORS' OFFICES. REID BROS., INC., San Francisco, Calif., and Seattle, Wash.
Filed August 28, 1922. Serial No. 168,790 PUBLISHED JULY 3, 1923.

174,247. PAINT REMOVER. ELMER F. MILLER, San Francisco, Calif.
Filed July 11, 1922. Serial No. 166,747. PUBLISHED JULY 10, 1923.

174,248. OVERALLS, COATS, PANTS, JUMPERS, COMBINATION ONE-PIECE SUITS, AND PANTALOONS FOR MEN AND PLAY SUITS FOR CHILDREN. THE IRONALL FACTORIES CO., Cincinnati, Ohio.
Filed May 31, 1922. Serial No. 164,707. PUBLISHED JULY 3, 1923.

174,249. LEATHER AND FABRIC GLOVES, HOSIERY, AND TEXTILE KNITTED UNDERWEAR FOR CHILDREN. ANTHONY W. NACK, Washington, D. C.
Filed May 29, 1922. Serial No. 164,660. PUBLISHED FEBRUARY 13, 1923.

174,250. MATRIX PAPER, STEREOTYPE AND KRAFT WRAPPING PAPER. THE ALBEMARLE PAPER MFG. CO., Richmond, Va.
Filed April 14, 1922. Serial No. 162,280. PUBLISHED AUGUST 8, 1922.

174,251. RECEIPT BOOKS AND FILING CARDS FOR BOOKKEEPING PURPOSES. WILLIAM A. RINGLER, Philadelphia, Pa.
Filed March 9, 1922. Serial No. 160,434. PUBLISHED JULY 10, 1923.

174,252. CLOTHING—NAMELY, KNITTED SWEATERS AND KNITTED DRESS SKIRTS. KNITWEAR MANUFACTURING CO. INC., Brooklyn, N. Y.
Filed January 3, 1922. Serial No. 157,431. PUBLISHED JULY 3, 1923.

174,253. HOSIERY. RICHMOND HOSIERY MILLS, Rossville, Ga.
Filed October 29, 1921. Serial No. 154,760. PUBLISHED MAY 22, 1923.

174,254. MEN'S, YOUTHS', AND BOYS' DRESS, NEGLIGEE, AND WORK SHIRTS. LEVI STRAUSS & CO., San Francisco, Calif.
Filed September 28, 1921. Serial No. 153,477. PUBLISHED JULY 3, 1923.

174,255. DRY, READY-MIXED, AND PASTE PAINT. INDIANA INDESTRUCTIBLE PAINT CO., Chicago, Ill.
Filed April 22, 1921. Serial No. 146,555. PUBLISHED AUGUST 16, 1921.

174,256. AUTOMOBILE AND PIANO POLISH. K. SMUCKLER, doing business as French Mfg. Co., Los Angeles, Calif.
Filed December 28, 1922. Serial No. 173,939. PUBLISHED JULY 3, 1923.

174,257. MEN'S READY-MADE SUITS AND OVERCOATS. LOUIS SHAPIRO, doing business as Louis Shapiro & Co., New York, N. Y.
Filed March 17, 1923. Serial No. 177,626. PUBLISHED JULY 10, 1923.

174,258. ORNAMENTAL STONEWORK ARTICLES, SUCH AS COMPRISING BIRD BATH, VASE, AND FLOWER BOXES. A. L. T. RUSTIC COMPANY, Belvidere, Ill.
Filed March 15, 1923. Serial No. 177,518. PUBLISHED JULY 10, 1923.

174,259. SILK AND WOOL FABRICS AND MIXTURES THEREOF IN THE PIECE. J. A. MIGEL, INC., North Bergen, N. J., and New York, N. Y.
Filed March 15, 1923. Serial No. 177,505. PUBLISHED MAY 29, 1923.

174,260. MIDDY BLOUSES, LADIES', CHILDREN'S, AND MISSES' DRESSES, KNICKERS, BOYS' SUITS, BLOOMERS, OVERSKIRTS, WAISTS, AND SPORT COATS. HARRY W. GOLDMAN, doing business as The Harry W. Goldman Co., Baltimore, Md.
Filed March 15, 1923. Serial No. 177,484. PUBLISHED JULY 3, 1923.

174,261. BOYS' AND GIRLS' HOSIERY. ANDREW A. WUEST, Cincinnati, Ohio.
Filed March 13, 1923. Serial No. 177,419. PUBLISHED JULY 10, 1923.

174,262. HOSIERY. CHIPMAN KNITTING MILLS, Easton, Pa.
Filed March 13, 1923. Serial No. 177,359. PUBLISHED JULY 10, 1923.

174,263. REFRIGERATORS, REFRIGERATOR PARTS, AND REFRIGERATING SYSTEMS. NATIONAL ELECTRIC PRODUCTS CORPORATION, Chicago, Ill.
Filed March 8, 1923. Serial No. 177,140. PUBLISHED JULY 3, 1923.

174,264. KNITTED AND NAINSOOK UNDERWEAR FOR MEN, WOMEN, AND CHILDREN; HOSIERY, AND SWEATERS. JACOB B. HIRSHFELD, doing business as J. B. Hirshfeld & Co. Inc., New York, N. Y.
Filed February 17, 1923. Serial No. 176,184. PUBLISHED JULY 17, 1923.

174,265. WOMEN'S AND MISSES' DRESSES. MALLAS CRAVIS CO., New York, N. Y.
Filed February 14, 1923. Serial No. 176,029. PUBLISHED JULY 10, 1923.

174,266. ARTISTS' MATERIALS—NAMELY, READY-MIXED PAINTS, INCLUDING VARNISH, PAINT ENAMELS, AND PIGMENT COLORS. ARTISTS BRUSH AND COLOR CORPORATION, New York, N. Y.
Filed February 3, 1923. Serial No. 175,454. PUBLISHED JULY 10, 1923.

174,267. WHITE LEAD, DRY AND IN OIL. CHADWICK-BOSTON LEAD COMPANY, Boston, Mass.
Filed January 31, 1923. Serial No. 175,344. PUBLISHED JULY 10, 1923.

174,268. HOSIERY. CHESTER KNITTING MILLS, St. Louis, Mo.
Filed January 16, 1923. Serial No. 174,654. PUBLISHED JULY 10, 1923.

174,269. MEN'S, WOMEN'S, AND CHILDREN'S UNION SUITS, COMBINATION SUITS, UNDERSHIRTS, AND UNDERDRAWERS MADE OF BOTH KNITTED AND WOVEN FABRIC. THE SUPERIOR ATHLETIC UNDERWEAR COMPANY, Piqua, Ohio.
Filed January 15, 1923. Serial No. 174,642. PUBLISHED JULY 10, 1923.

174,270. CLOTHING—NAMELY, SUITS, TOPCOATS, AND ULSTERS FOR MEN. H. H. COOPER & CO., INC., Utica, N. Y.
Filed January 13, 1923. Serial No. 174,560. PUBLISHED JULY 10, 1923.

174,271. PANTS, NORFOLK JACKETS, COATS, AND VESTS. SWEET-ORR & CO., INC., Wappingers Falls and New York, N. Y.
Filed January 5, 1923. Serial No. 174,221. PUBLISHED JULY 3, 1923.

174,272. MEN'S READY-MADE SUITS AND OVERCOATS. LOUIS SHAPIRO, doing business as Louis Shapiro & Co., New York, N. Y.
Filed March 17, 1923. Serial No. 177,627. PUBLISHED JULY 10, 1923.

174,273. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. STAMPER & KAISER, New York, N. Y.
Filed March 17, 1923. Serial No. 177,630. PUBLISHED JULY 10, 1923.

174,274. KIMONOS, BREAKFAST GOWNS, SLIPOVERS, AND DRESSING SACKS. THE BARSA CORPORATION, New York, N. Y.
Filed March 26, 1923. Serial No. 178,021. PUBLISHED JULY 10, 1923.

174,275. DUPLICATING APPARATUS OF THE TYPE EMPLOYING STENCILS AND ACCESSORIES THERETO, PAPER FOR PRODUCING THE STENCILS, AND PAPER ON WHICH THE STENCILS ARE REPRODUCED. D. GESTETNER LIMITED, London, England.
Filed March 28, 1923. Serial No. 178,175. PUBLISHED JULY 10, 1923.

174,276. WRITING AND BOND PAPER. BECKER PAPER CORPORATION, New York, N. Y.
Filed March 29, 1923. Serial No. 178,208. PUBLISHED JULY 17, 1923.

174,277. BOX SHOOKS. GEORGE X. WENDLING, San Francisco, Calif.
Filed March 29, 1923. Serial No. 178,318. PUBLISHED JULY 3, 1923.

174,278. ICE-CREAM FREEZERS. STEINFELD INC., New York, N. Y.
Filed April 4, 1923. Serial No. 178,574. PUBLISHED JULY 17, 1923.

174,279. WOOD PASTE FILLER, OIL COLORS TO BE USED IN PAINT MIXING, ENAMEL FOR GENERAL USE, WOOD FILLER, IRON ENAMEL. EDWARD E. ALLEN MFG. CO., Chicago, Ill.
Filed April 13, 1923. Serial No. 179,078. PUBLISHED JULY 10, 1923.

174,280. HOSIERY. MILLER BROTHERS COMPANY, Chattanooga, Tenn.
Filed April 14, 1923. Serial No. 179,158. PUBLISHED JULY 10, 1923.

174,281. ANNOUNCEMENTS CONSISTING OF A CARD AND ENVELOPE AND FOLDED SHEET AND ENVELOPE. RICHTER CARD & PAPER CO. INC., New York, N. Y.
Filed April 16, 1923. Serial No. 179,224. PUBLISHED JULY 3, 1923.

174,282. HARNESS, COLLARS, SADDLERY, AND PARTS THEREOF. W. W. GLECKNER & SONS CO., Canton, Pa.
Filed April 17, 1923. Serial No. 179,267. PUBLISHED JULY 10, 1923.

174,283. PRIMER PAINT FOR METAL SURFACES. JAMES B. SIPE & COMPANY, Pittsburgh, Pa.
Filed April 18, 1923. Serial No. 179,325. PUBLISHED JULY 3, 1923.

174,284. PASTE PAINT. JAMES B. SIPE & COMPANY, Pittsburgh, Pa.
Filed April 18, 1923. Serial No. 179,326. PUBLISHED JULY 3, 1923.

174,285. PAINT OIL TO BE ADDED TO PAINT. JAMES B. SIPE & COMPANY, Pittsburgh, Pa.
Filed April 18, 1923. Serial No. 179,331. PUBLISHED JULY 3, 1923.

174,286. OVERCOATS. MEIGS & CO. INC., Boston, Mass., and Bridgeport, Conn.
Filed April 19, 1923. Serial No. 179,376. PUBLISHED JULY 10, 1923.

174,287. FOUNTAIN PENS. MILLER'S BOOK STORE, INC., Atlanta, Ga.
Filed April 19, 1923. Serial No. 179,377. PUBLISHED JULY 3, 1923.

174,288. LADIES' DRESSES. THE LOVINGER-SCHWARTZ CO., Cleveland, Ohio.
Filed April 20, 1923. Serial No. 179,414. PUBLISHED JULY 10, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

174,289. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WM. SIMPSON, SONS & CO., Philadelphia, Pa. Filed Apr. 26, 1923. Serial No. 179,749.

BRITESYLK

Particular description of goods.—Cotton Goods in the Piece.
Claims use since December, 1921.

174,290. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE GRUEN WATCH COMPANY, Cincinnati and Time Hill, Cincinnati, Ohio. Filed Apr. 25, 1923. Serial No 179,668.

VERITHIN

Particular description of goods.—Watches, Watchcases, and Watch Movements.
Claims use since about 1902.

174,291. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE GRUEN WATCH COMPANY, Cincinnati and Time Hill, Cincinnati, Ohio. Filed Apr. 25, 1923. Serial No. 179,667.

ULTRATHIN

Particular description of goods.—Watches, Watchcases, and Watch Movements.
Claims use since about 1905.

174,292. (CLASS 25. LOCKS AND SAFES.) THE SAFE-LOCK CO., INC., Cleveland, Ohio. Filed Mar. 8, 1923. Serial No. 177,142.

SAFELOCK

Particular description of goods.—Locks for Automobile Steering Wheels.
Claims use since July, 1922.

174,293. (CLASS 39. CLOTHING.) BROWNSTEIN-LOUIS CO., Los Angeles, Calif. Filed Feb. 17, 1923. Serial No. 176,161.

Beverly

Particular description of goods.—Men's, Women's, and Children's Clothing—Namely, Dress and Negligee Shirts, Pyjamas, and Nightgowns.
Claims use since July, 1922.

174,294. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. STEIN & Co., New York, N. Y. Filed Dec. 12, 1922. Serial No. 173,258.



Particular description of goods.—Woolen Cloths in the Piece.
Claims use since Mar. 30, 1922.

174,295. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MILWAUKEE AIR POWER PUMP COMPANY, Milwaukee, Wis. Filed Dec. 11, 1922. Serial No. 173,198.

"DIRECT FROM THE WELL"

Particular description of goods.—Pneumatic Water Pumping and Supply Systems and Apparatus Therefor.
Claims use for not less than one year in interstate commerce with the States of Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, West Virginia, and Wyoming, and in foreign commerce with Canada and the Dutch East Indies.

174,296. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MILWAUKEE AIR POWER PUMP COMPANY, Milwaukee, Wis. Filed Dec. 11, 1922. Serial No. 173,197.



Particular description of goods.—Pneumatic Water Pumping and Supply Systems and Apparatus Therefor.
Claims use for not less than one year in interstate commerce with the States of Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, West Virginia, and Wyoming, and in foreign commerce with Canada and the Dutch East Indies.

174,297. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THOMMEN'S INC., Philadelphia, Pa. Filed June 29, 1923. Serial No. 182,624.

JAPANESE CAKE

Particular description of goods.—Cake.
Claims use since about Jan. 1, 1913.

174,298. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE ELECTRIC FURNACE COMPANY, Salem, Ohio. Filed July 5, 1923. Serial No. 182,792.

BAILY

Particular description of goods.—Electric Melting, Heating, and Heat-Treating Furnaces.
Claims use since March, 1911.

174,299. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE WISE-MCCLUNG MANUFACTURING COMPANY, New Philadelphia, Ohio. Filed May 27, 1921. Serial No. 148,357.

AMERICA

Particular description of goods.—Electric Suction Cleaners.
Claims use since March, 1917.

174,300. (CLASS 39. CLOTHING.) ARTHUR A. KATTEN CO. INC., New Orleans, La. Filed June 11, 1921. Serial No. 149,009.

PLAKLOES

Particular description of goods.—Children's Overalls.
Claims use since May 6, 1921.

174,301. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE SCHUSTER COMPANY, Cleveland, Ohio. Filed June 21, 1921. Serial No. 149,490.

GRAPE-ADE

Particular description of goods.—Nonalcoholic, Cereal, and Noncereal Maltless Beverages Sold as Soft Drinks and Sirup for Making Same.
Claims use since 1913.

174,302. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ROME WIRE COMPANY, Rome, N. Y. Filed Oct. 14, 1921. Serial No. 154,091.

SUPER SERVICE

Particular description of goods.—Reenforced Insulated Electric Cables.
Claims use since on or about June 23, 1921.

174,303. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE COLSON COMPANY, Elyria, Ohio. Filed Dec. 12, 1921. Serial No. 156,570.



Particular description of goods.—Children's Three-Wheeled Vehicles.
Claims use since Sept. 15, 1921.

174,304. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE GARNER GIN COMPANY, INC., Houston, Tex. Filed Feb. 25, 1922. Serial No. 159,795.

AIRCLEAN

Particular description of goods.—Machines for Treating Fibrous Material and Parts Thereof, and Particularly for Machines for Breaking, Opening, Cleaning, Separating, Collecting, Condensing, and Ginning Cotton and Other Fibrous Materials.
Claims use since Apr. 29, 1920.

174,305. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill. Filed Apr. 17, 1922. Serial No. 162,383.

Sunbeam

Particular description of goods.—Electric Toaster Grills.
Claims use since Mar. 25, 1922.

174,306. (CLASS 39. CLOTHING.) LORETTA F. TIGHE, New York, N. Y. Filed May 17, 1922. Serial No. 164,013.



Particular description of goods.—Corsets, Brassières, and Corselettes.
Claims use since Jan. 1, 1922.

174,307. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BECK & TRUELOVE, Jackson, Miss., assignor to Hi-Power Company of New Jersey, Hoboken, N. J., a Corporation of New Jersey. Filed June 5, 1922. Serial No. 165,001.

Hi-Power
BATTERY FLUID

Particular description of goods.—Recharging Fluid for Storage Batteries.
Claims use since Apr. 1, 1922.

174,308. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ALLAN-DIFFENBAUGH WRENCH & TOOL CO., Baraboo, Wis. Filed Aug. 10, 1922. Serial No. 168,014.

KANT-SLIP

Particular description of goods.—Pliers and Wrenches.
Claims use since May 11, 1920.

174,309. (CLASS 39. CLOTHING.) HUDSON CLOAK & SUIT STORE, Paterson, N. J.; Bridgeport, New Haven, Hartford, Conn.; Boston, Mass.; Rochester, N. Y.; and Washington D. C. Filed Sept. 11, 1922. Serial No. 169,300.

Hudson

Particular description of goods.—Ladies' Suits, Coats, Gowns, Dresses, Skirts, and Prepared Natural and Artificial Fur Coats, Neck Pieces, Muffs, and Fur-Trimmed Coats, Suits, and Skirts.
Claims use since September, 1912.

174,310. (CLASS 39. CLOTHING.) UNITED STATES HOSIERY CO., Reading, Pa. Filed Sept. 12, 1922. Serial No. 169,380.

Welformed

Particular description of goods.—Hosiery.
Claims use since the middle of May, 1922.

174,311. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA TABLE FRUIT CO., Reedley, Calif. Filed Sept. 21, 1922. Serial No. 169,753.

TABLE FRUIT

Particular description of goods.—Fresh Grapes.
Claims use since Aug. 1, 1922.

174,312. (CLASS 39. CLOTHING.) UNITED HOSIERY MILLS CORPORATION, Chattanooga, Tenn. Filed Oct. 6, 1922. Serial No. 170,413.



Particular description of goods.—Hosiery.
Claims use since on or about Apr. 1, 1904.

174,313. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) WESTPHONO INCORPORATED, St. Paul, Minn. Filed Oct. 30, 1922. Serial No. 171,396.

Spencerian

Particular description of goods.—Combination Library Table and Phonograph, Phonographs, and Phonographic Sound Reproducers and Recorders.
Claims use since Aug. 15, 1922.

174,314. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORRIS M. MILGRAM, doing business as "Big Four" Chemical Products Co., Indiana Harbor, Ind. Filed Nov. 6, 1922. Serial No. 171,648.



Particular description of goods.—Shampoo.
Claims use since May 1, 1921.

LABELS

REGISTERED OCTOBER 9, 1923.

26,468.—*Title:* BARDELL FOTOTONE MINIATURES. For Miniature Post Cards. J. C. BARDELL, doing business as Bardell Art Printing Co., San Francisco, Calif. Published July 31, 1923.

26,469.—*Title:* CAPT. JACK'S SAND SHIP. For Toys—Namely, Miniature Ships. PAUL JACKSON BARNARD, doing business as Paul Jackson Barnard Company, Los Angeles, Calif. Published August 4, 1923.

26,470.—*Title:* SINCO. For an Herb Remedy. C. G. BOYD, doing business as C. G. Boyd Drug & Chemical Company, Chattanooga, Tenn. Published January 1, 1923.

26,471.—*Title:* CINCO. For an Herb Remedy. C. G. BOYD, doing business as C. G. Boyd Drug & Chemical Company, Chattanooga, Tenn. Published January 1, 1923.

26,472.—*Title:* CANADA DRY (MAP DESIGN). For Ginger Ale. CANADA DRY GINGER ALE, INC., New York, N. Y. Published July 26, 1923.

26,473.—*Title:* A PALE GINGER ALE OF EXCEPTIONAL QUALITY. For Ginger Ale. CANADA DRY GINGER ALE, INC., New York, N. Y. Published July 26, 1923.

26,474.—*Title:* CANADA DRY (LEAF DESIGN). For Ginger Ale. CANADA DRY GINGER ALE, INC., New York, N. Y. Published July 26, 1923.

26,475.—*Title:* CANADA DRY (IMITATION OF COAT OF ARMS AGAINST A BACKGROUND OF BLUE, YELLOW, PINK AND GREEN DESIGN). For Ginger Ale. CANADA DRY GINGER ALE, INC., New York, N. Y. Published July 26, 1923.

26,476.—*Title:* CANADA DRY (IMITATION OF COAT OF ARMS AGAINST A BLUE BACKGROUND DESIGN). For Ginger Ale. CANADA DRY GINGER ALE, INC., New York, N. Y. Published July 26, 1923.

26,477.—*Title:* TASTUM. For a Sandwich Made of Milk Crackers and Cheese. CRAWFORD FARMS, INCORPORATED, Millbrook, N. Y. Published July 19, 1923.

26,478.—*Title:* DELTA. For Fresh Pears. JAMES F. ELLIOT, Courtland, Calif. Published August 7, 1923.

26,479.—*Title:* GOLD MEDAL, BUCKWHEAT AND WHEAT FLOUR. For Buckwheat and Wheat Flour. FRANCE MILLING COMPANY, Cobleskill, N. Y. Published June 18, 1923.

26,480.—*Title:* LAGO PURE CRUSHED FRUIT LAXATIVE. For a Laxative Preparation. I. A. FREEMAN, Kansas City, Mo. Published May 31, 1923.

26,481.—*Title:* KAZBEK COMPLEXION CLAY. For Complexion Clays. KAZBEK COMPANY, INC., Jersey City, N. J. Published August 8, 1923.

26,482.—*Title:* KAYSEECO. For Boxes Containing Assorted Chocolates. KNOWLAN CANDY CO., Green Bay, Wis. Published July 7, 1923.

26,483.—*Title:* TREASURE ISLAND. For a Child's Game. NOBLE AND NOBLE, New York, N. Y. Published May 16, 1923.

26,484.—*Title:* GAME OF TREASURE ISLAND. For the Cover of the Game Box. NOBLE AND NOBLE, New York, N. Y. Published May 13, 1923.

26,485.—*Title:* GAME OF CINDERELLA. For the Cover of the Game Box. NOBLE AND NOBLE, New York, N. Y. Published May 16, 1923.

26,486.—*Title:* GAME OF ALICE IN WONDERLAND. For the Cover of the Game Box. NOBLE AND NOBLE, New York, N. Y. Published May 16, 1923.

26,487.—*Title:* TODDY. For a Food Drink Consisting of Powdered Malt, Milk, Cocoa, and Sugar. J. W. RUDHARD, doing business as Maltop Company, Buffalo, N. Y. Published May 1, 1923.

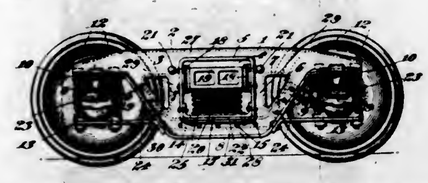
26,488.—*Title:* GAME OF BLACK SAMBO. For a Box Containing a Game. STOLL & EDWARDS CO. INC., New York, N. Y. Published June 20, 1923.

26,489.—*Title:* WAXIMAC. For a Polish for Automobiles, Furniture, and Floors. WAXIMAC CO., Roslindale, Mass. Published August 16, 1923.

REISSUES.

OCTOBER 9, 1923.

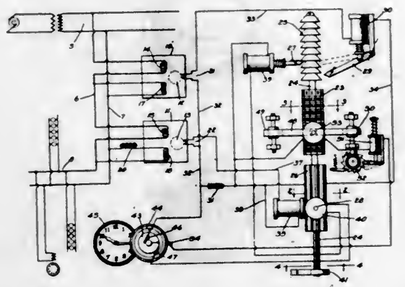
15,696. TRUCK FRAME. RALPH E. WILDER, Bethlehem, Pa., assignor, by mesne assignments, to Bethlehem Steel Company, a Corporation of Pennsylvania. Filed Aug. 18, 1923. Serial No. 658,170. Original No. 1,270,908, dated July 2, 1918, Serial No. 230,829; filed Apr. 25, 1918. 19 Claims. (Cl. 105—205.)



1. In a truck frame an integral plate forming the top, side and bottom members, the sides of which extend substantially parallel and downwardly from the upper member.

15,697. METER. RUDOLPH F. SCHUCHARDT, Chicago, Ill., assignor to General Electric Company, a Corporation of New York. Filed May 3, 1923. Serial No. 636,451. Original No. 1,366,960, dated Feb. 1, 1921, Serial No. 264,533, filed Nov. 29, 1918. 59 Claims. (Cl. 234—5.5.)

1. The method of continuously indicating average power factor over a predetermined period of time, or any portion thereof, of the electrical power flowing in a conductor by means of a surface divided with respect to a zero point into unit areas by coordinates and provided with graduations on said unit areas in terms of power factor, the value of the graduation in each area being the cosine of the angle whose tangent is the ratio between the ordinate of said area and the coordinate of the same area, which comprises—integrating the instantaneous values of the power component of the power flowing in said line in said period, or any portion thereof into predetermined units, integrating the instantaneous values of the reactive component of the power flowing in said line in said period or any portion thereof into other predetermined units preferably of equal value with the units of power component, laying out said units of reactive component as they are completed lineally along an ordinate of measurement of said surface, laying out said units of power component as they are completed lineally along a coordinate of measurement of said surface, and determining at any time the value of power factor from the graduation of the unit area which is defined in terms of its ordinate by the value of the integrated or accumulated units of reactive component and in terms of its coordinate by the value of the integrated or accumulated units of power component.



10. In combination a line, a first integrating wattmeter element responsive to the reactive component in said line, a second integrating wattmeter element responsive to the power component in said line, means responsive solely to said first wattmeter element for producing movement in a given direction, and means responsive solely to said second wattmeter element for producing movement in a direction substantially at right angles to the movement produced by said first wattmeter element, and means cooperating therewith to record the amount of said movements during each of a number of predetermined time intervals.

57. In a device of the class described, the combination of a cylindrical drum, the surface of which has a zero point and which is graduated in two dimensions to form unit areas, said unit areas having printing characters thereupon, each character being a trigonometric function of the location of the unit area with respect to the zero point in terms of suitable units, said drum being mounted for axial and rotary movement, stepping means for moving the drum in suitable unit steps in an axial direction, stepping means for moving the drum in unit steps in a rotary direction, holding means for holding the drum in advanced position, means for releasing said holding means at the end of a given period of time and means for printing the selected one of said characters at the end of the given period.

DESIGNS.

OCTOBER 9, 1923.

63,117. JAR. GORDON C. AYMAR, New York, N. Y., assignor to Danya, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 10, 1923. Serial No. 5,141. Term of patent 3½ years.



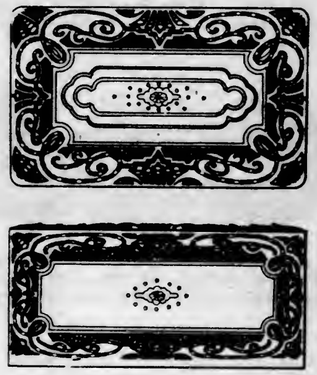
The ornamental design for a jar, as shown.

63,118. LAMP GLOBE. CHARLES COSTANZ, Brooklyn, N. Y. Filed Aug. 2, 1922. Serial No. 3,267. Term of patent 14 years.



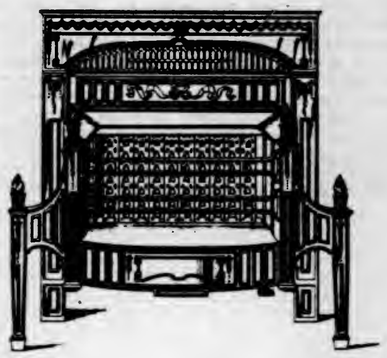
The ornamental design for a lamp globe, as shown.

63,119. COSMETIC CHEST. HOWARD GOODRICH, Omaha, Nebr. Filed Jan. 2, 1923. Serial No. 4,790. Term of patent 3½ years.



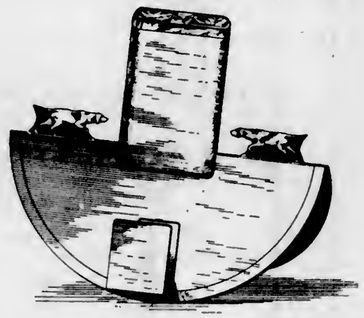
The ornamental design for a cosmetic chest as shown.

63,120. HEATER. MORTIMER L. PACKER, Columbus, Ohio, and TURNER B. MESSICK, Indianapolis, Ind., assignors to The Ohio State Stove & Mfg. Co., Columbus, Ohio, a Corporation of Ohio. Filed Mar. 26, 1923. Serial No. 5,604. Term of patent 7 years.



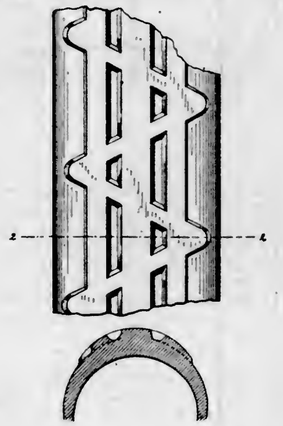
The ornamental design for a heater, as shown.

63,121. ROCKING SAFETY-MATCH HOLDER. FRANK PFOUS, Coshocton, Ohio, assignor to The H. D. Beach Company, Coshocton, Ohio, a Corporation of Ohio. Filed Dec. 1, 1922. Serial No. 4,456. Term of patent 7 years.



The ornamental design for a rocking safety match holder, substantially as shown.

63,122. TIRE TREAD. RUSSELL F. MILLER, Akron, Ohio. Filed July 23, 1921. Serial No. 487,203. Term of patent 14 years.



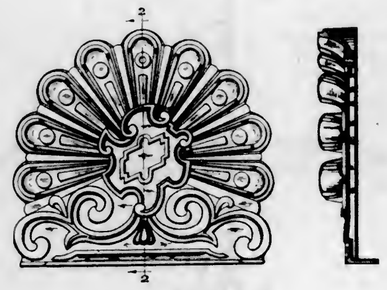
The ornamental design for a tire tread as shown.

63,123. CARTON. SYLVIE MONTEGUT, Paris, France. Filed Apr. 26, 1923. Serial No. 5,963. Term of patent 3½ years.



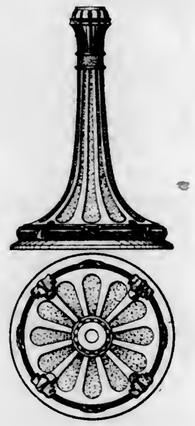
The ornamental design for a carton, as shown.

63,124. FOOT SCRAPER FOR AUTOMOBILES. GEORGE SOMERVILLE, Denver, Colo. Filed Mar. 7, 1923. Serial No. 5,396. Term of patent 3½ years.



The ornamental design for a foot scraper for automobiles as shown.

63,125. LAMP STANDARD. ADOLF STEFFEN, Pittsburgh, Pa., assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 1, 1923. Serial No. 5,040. Term of patent 7 years.



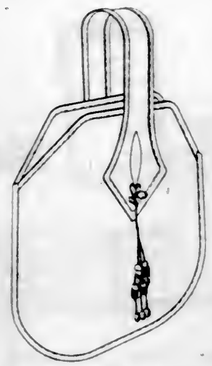
The ornamental design for a lamp standard, as shown.

63,126. LAMP STAND. VICTOR TOOTHAKER, East Aurora, N. Y. Filed Jan. 25, 1923. Serial No. 4,993. Term of patent 7 years.



The ornamental design for a lamp stand, as shown.

63,127. SHOPPING BAG. ELSIE A. YOULEN, Los Angeles, Calif. Filed Mar. 2, 1923. Serial No. 5,345. Term of patent 3½ years.

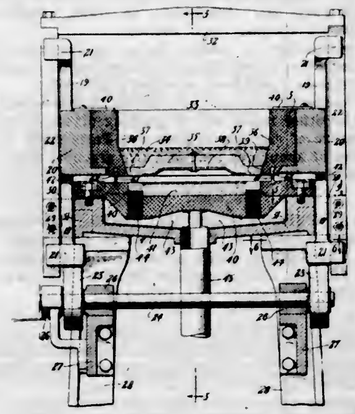


The ornamental design for a shopping bag, as shown.

PATENTS

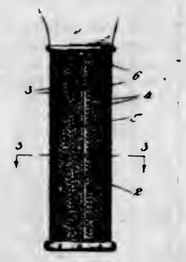
GRANTED OCTOBER 9, 1923.

1,469,765. FABRIC-TREATING MACHINE. RAYMOND F. BACON, New York, CLEO H. KIDWELL, New Brighton, N. Y., and PERRY H. BASCOM, Boundbrook, N. J., assignors, by mesne assignments, to Van Heusen Products, Inc., a Corporation of Delaware. Filed July 19, 1922. Serial No. 575,958. 9 Claims. (Cl. 8—30.)



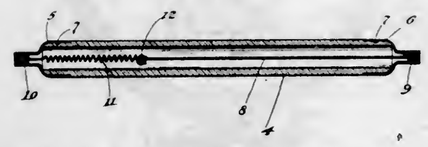
1. In a fabric treating machine the combination of two relatively movable members between which the fabric is adapted to pass, means for moving one of said members relative to the other, fluid containing means mounted upon one of said members and means, including pervious elements mounted upon both of said members, for causing fluid to flow through the fabric when the latter is located between said members.

1,469,766. NONSLIPPING DEVICE. ROBERT S. BLAIR, Sound Beach, Conn. Filed Mar. 24, 1919. Serial No. 284,620. 13 Claims. (Cl. 46—24.)



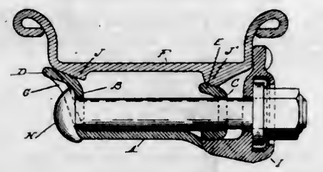
1. In an implement of a type which in normal use may exert torsional strains upon the hand, in combination, a portion to be grasped by the hand, and a covering for said portion, having a plurality of spine like elements some extending in one direction and some in another, to resist rotation in either direction of said element.

1,469,767. FUSE. JOHN C. BOGLE, Oak Park, Ill., assignor to Frank B. Cook Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 10, 1919. Serial No. 329,780. 8 Claims. (Cl. 200—117.)



1. As a new article of manufacture, a fuse of low amperage rating, comprising in combination, a fuse wire of higher amperage rating than the fuse proper, a resilient means, and a fusible alloy connecting said fuse wire and resilient means, said alloy being eliminated as a necessary conducting part of the electric circuit but fusing at the amperage rating of the fuse proper by reason of the heat developed by current flow thru the fuse wire and resilient means.

1,469,768. METALLIC FELLY FOR VEHICLE WHEELS. WILLIAM N. BOOTH, Detroit, Mich. Filed Apr. 2, 1919. Serial No. 286,994. 5 Claims. (Cl. 301—24.)



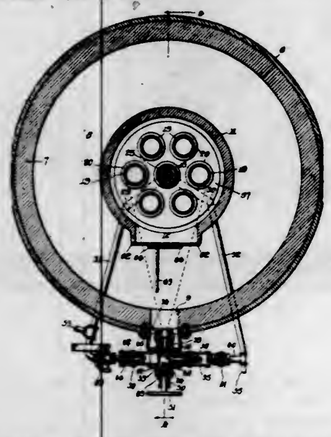
1. The combination with a demountable rim, of a metallic fixed rim having a radial outwardly extending flange terminating in a laterally flaring flange forming a seat for one side of said demountable rim, the metal at the angle between said flanges being pressed outward at intervals to form braces.

1,469,769. METALLIC FELLY AND RIM FOR VEHICLE WHEELS. WILLIAM N. BOOTH, Detroit, Mich. Filed Apr. 23, 1919. Serial No. 292,148. 1 Claim. (Cl. 301—67.)



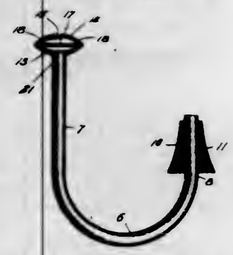
In a vehicle wheel, the combination of a metallic felly of channel section having outwardly extending annular flanges laterally deflected at their outer ends to form curved peripheral portions of greater width than the average thickness of the channel, and a continuous annular metallic rim provided with grooves rolled therein for registering with and fitting the curved peripheral portions of said felly and with portions on opposite sides of said grooves of a diameter less than the maximum diameter of the flanges, said rim being shrunk upon said felly.

1,469,770. OIL-BURNING FURNACE. LOUIS G. BOSTEDO, Chicago, Ill. Filed Feb. 9, 1922. Serial No. 535,154. 10 Claims. (Cl. 158—1.)



1. In an oil burning furnace, the combination with a fire box formed with an opening in a wall thereof, of a steam generator located in said fire-box, an atomizer formed with a burner nozzle located opposite and directed into said opening and toward said steam generator, said atomizer having an air induction opening, an oil supply pipe leading into said atomizer, a pipe from said generator leading into said atomizer and supplying steam for the induction of oil, and another pipe from said generator leading into said atomizer for the induction of air.

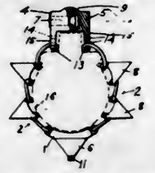
1,469,771. SANITARY DRINKING DEVICE. WALTER B. ALLEN, Attleboro, Mass. Filed July 28, 1921. Serial No. 488,119. 1 Claim. (Cl. 299—17.)



In a portable bubbler, a pipe comprising a curved body, and arms of different lengths upon the ends of the body parallel with each other, a plug upon the shorter arm, a hollow discharge head upon the longer arm comprising a convex bottom plate, a convex top plate fast at its periphery to the periphery of the bottom plate and provided with a noncircular central opening, and a horizontal baffle plate supported between the first two plates provided with an annular series of marginal holes the portion of said baffle plate opposite said opening being imperforate.

1,469,772. AUTO-THEFT SIGNAL. EARLE E. CHAPMAN, Los Angeles, Calif., assignor to Miller-Chapman Company, Los Angeles, Calif., a Corporation of California. Filed Mar. 3, 1917. Serial No. 152,213. 6 Claims. (Cl. 70—90.)

1. An automobile theft signal comprising: members adapted to enclose a tire; means for locking said members around a tire; and a series of bumping projections on said members extending outwardly therefrom, said projections being in such numbers and so spaced that one of them will be in a position to strike the ground and lift the wheel regardless of the transverse position of said



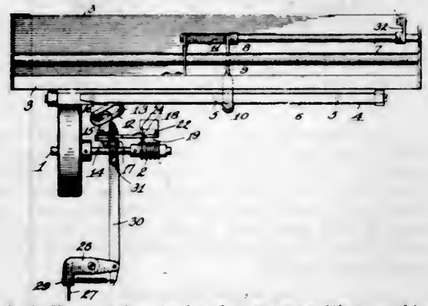
members on said tire, so that the signal cannot be rendered ineffective by turning said members transversely around on the wheel.

1,469,773. INSECTICIDE. WILLIAM STAKELY COX, College Park, Ga. Filed Apr. 25, 1921. Serial No. 464,389. 2 Claims. (Cl. 167—6.)

1. A composition of matter for use in destroying boll weevil and other insect life on growing plants consisting of a mixture of chloride of lime and Paris green.

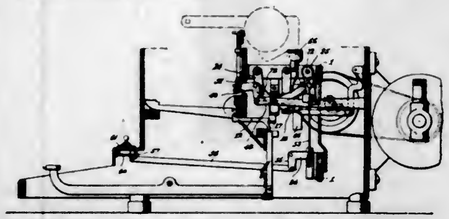
2. A composition of matter for use in destroying boll weevil and other insect life on growing plants consisting of a mixture of chloride of lime and Paris green in the proportion of about one pint of Paris green to four pints of chloride of lime.

1,469,774. TYPEWRITING MACHINE. MANSFIELD C. CRAWLEY, Groton, N. Y., assignor to Addograph Company, Los Angeles, Calif., a Corporation of California. Filed Aug. 29, 1917, Serial No. 188,774. Renewed Mar 27, 1923. 29 Claims. (Cl. 197—114.)



1. A line spacing device for a typewriting machine, comprising a shaft, reciprocable line spacing devices and key-operated means for connecting the said devices to the shaft independently of the carriage for a predetermined period.

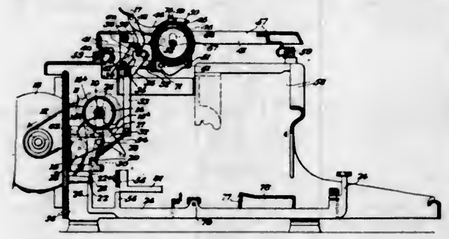
1,469,775. TYPEWRITING MACHINE. MANSFIELD C. CRAWLEY, Rutherford, N. J., assignor to Addograph Company, Los Angeles, Calif., a Corporation of California. Filed Feb. 24, 1919. Serial No. 278,872. 11 Claims. (Cl. 197—157.)



1. In a typewriting machine, a ribbon-vibrating mechanism embodying a rearwardly-extending push-and-pull link, a spring-actuated type-bar-actuator adapted to operate said ribbon mechanism to shift its ribbon-guide to printing position upon each of its working strokes, and devices for adjustably connecting the rear end of said link to said type-bar-actuator to thereby permit the throw of the ribbon-guide to be varied.

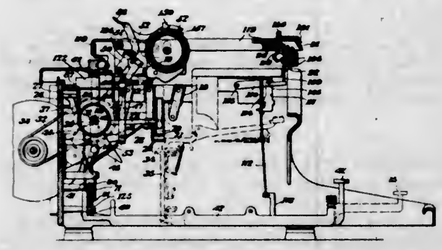
2. In a typewriting machine, a ribbon-vibrating mechanism, a spring-actuated type-bar actuator adapted to operate said ribbon mechanism to shift its ribbon-guide to printing position upon each of its working strokes, and devices for adjustably connecting the actuator to the ribbon mechanism to vary the throw of the ribbon-guide.

1,469,776. TYPEWRITING MACHINE. MANSFIELD C. CRAWLEY, Groton, N. Y., assignor to Addograph Company, Los Angeles, Calif., a Corporation of California. Filed July 25, 1922. Serial No. 577,358. 19 Claims. (Cl. 197—114.)



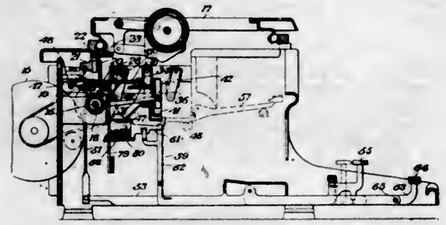
1. In a typewriting machine having a rotatable platen mounted on the carriage, means mounted on the carriage for rotating said platen embodying an interlocking-member, a power-shaft and a motor for continuously driving it, actuating-means driven from the power-shaft to actuate the line-spacing means on the carriage embodying another interlocking-member, one of said interlocking-members consisting of a rail extending the length of travel of the carriage and the other interlocking-member consisting of an arm having continuous interlocking engagement with the aforesaid member, and key-controlled means for connecting the power-shaft to said actuating means.

1,469,777. TYPEWRITING MACHINE. MANSFIELD C. CRAWLEY, Groton, N. Y., assignor to Addograph Company, Los Angeles, Calif., a Corporation of California. Filed Sept. 13, 1922. Serial No. 588,045. 55 Claims. (Cl. 197—17.)



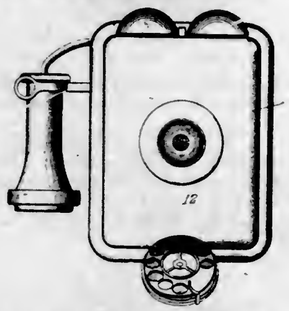
1. In a typewriting machine, a continuously-driven power-shaft, key-controlled means for operating the line-spacing mechanism of the machine from said shaft embodying a slip-clutch adapted to be put into action and held in action by the key, and a carriage-returning mechanism adapted to be put into action by the same key simultaneously with the line spacing mechanism and also embodying a slip-clutch adapted to be put into action and held in action by the key.

1,469,778. TYPEWRITING MACHINE. MANSFIELD C. CRAWLEY, Groton, N. Y., assignor to Addograph Company, Los Angeles, Calif., a Corporation of California. Filed Sept. 13, 1922. Serial No. 588,046. 40 Claims. (Cl. 197—82.)



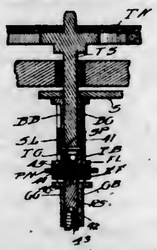
1. In a typewriting machine, a power-driven type-carrier actuator, a carriage-feeding mechanism operable to feed the carriage in either direction, and means positively connecting said mechanism to the actuator whereby the operation of the actuator will positively actuate the feeding mechanism.

1,469,779. AUTOMATIC TELEPHONE-DIAL SUPPORT. ARTHUR J. CURREN, Elyria, Ohio. Filed Oct. 20, 1919. Serial No. 331,967. 8 Claims. (Cl. 179—90.)



8. In a telephone set, a dial, and a support for said dial comprising a cup member to receive said dial, and a neck formed from a single piece having one end flanged to receive said cup member, and the other end flanged and attached to said telephone set.

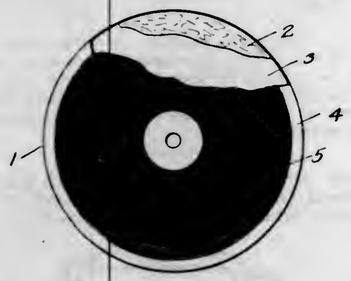
1,469,780. ELECTRICAL PHONOGRAPH DRIVING MECHANISM. WILLIAM W. DEAN, Wilmette, Ill., assignor to Efficiency Electric Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 12, 1919. Serial No. 337,518. 12 Claims. (Cl. 74—36.)



1. In a phonograph mechanism, the combination with a phonograph motor, a rotatable turntable, a turntable supporting shaft, a motorshaft, interconnecting means for communicating rotary motion from the said motor to the said shaft, said interconnecting means comprising an

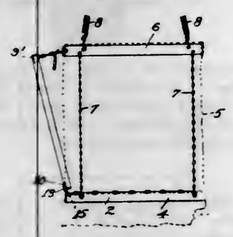
intermediate yielding member of relatively sound non-conducting material, a governing mechanism for the said motor, a moving member therefor adapted to be vibrated by rapidly changing motor speeds, said non-sound conducting intermediate member being disposed between the said governor movable member and the said turn-table shaft.

1,469,781. LAMINATED PHONOGRAPH RECORD AND METHOD FOR PRODUCING SAME. VICTOR H. EMERSON, New York, N. Y., assignor to Emerson Phonograph Company, Inc., New York, N. Y. a Corporation of New York. Filed Aug. 11, 1920. Serial No. 402,873. 4 Claims. (Cl. 18—48.3.)



1. A sound record blank having a body portion formed from sheet asbestos and thermo-plastic material thereon.

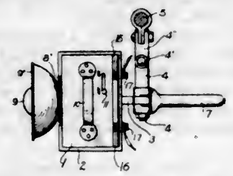
1,469,782. HAMMOCK. BENJAMIN B. ENGLANDER, Brooklyn, N. Y., assignor to The Englander Spring Bed Company, Brooklyn, N. Y., a Corporation of New York. Filed Dec. 7, 1920. Serial No. 428,900. 3 Claims. (Cl. 5—125.)



1. In a couch hammock, the combination of a couch bottom comprising a fabric connected frame, a pair of wind shield end members connected to said frame, and a fabric connected framed back connected to said couch bottom frame and end members, the connections thereof with the bottom frame comprising a plurality of pairs of slots and bent projections insertable into said slots, one of each pair carried by the bottom frame along one side thereof and the other by the back along one longitudinal edge thereof for permitting the back to be readily detached and assembled with the structure.

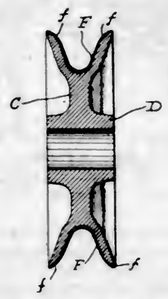
1,469,783. STORAGE-BATTERY LAMP AND MEANS FOR OPERATING SAME. HARRY M. ESSINGTON, Chicago, Ill. Filed Jan. 17, 1922. Serial No. 529,885. 2 Claims. (Cl. 240—7.)

2. A device of the character described comprising a casing, a handle thereon, an electric lamp mounted on said casing, a storage battery in said casing, outwardly facing contacts to receive charging current for said battery, and connections for said contacts, battery and lamp, said means including a pair of contact strips set



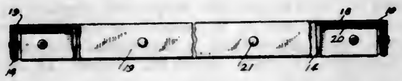
in slots in said casing and back from its outer face to receive a pair of spring contacts connected to a charging source.

1,469,784. TROLLEY WHEEL. RICHARD W. FUNK, Bellefonte, Pa. Filed Aug. 10, 1921. Serial No. 491,091. 3 Claims. (Cl. 191—63.)



3. A pressed one-piece solid metal trolley wheel having the metal cold rolled to a condensed surface texture in the runway.

1,469,785. RUNNING BOARD FOR AUTOMOBILES. GIDEON R. GAGNE, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Aug. 3, 1922. Serial No. 579,480. 8 Claims. (Cl. 280—163.)



3. As an article of manufacture, a sheet steel running board for automobiles and other vehicles, composed of a tread portion and depending flanges thereon, the lower marginal portion of the flange being returned to lie against and in parallelism with the outer side of the depending portion thereof, to produce a square corner upon the running board.

1,469,786. LEAD PENCIL. WILLIAM F. HAACK, Berwyn, Ill. Filed Jan. 12, 1922. Serial No. 528,601. 6 Claims. (Cl. 120—18.)

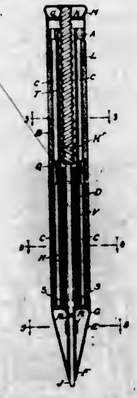
6. In a magazine lead pencil, the combination of a shell, an annular multicell magazine for leads mounted within the upper portion of said shell, a working chamber coaxial with said shell beneath said magazine and formed with a longitudinal slot for the admission of a lead thereto, a ferrule rotatably mounted on the lower end of said shell and formed with a pointed tip surrounding and attached to the lower end of said working chamber, a valve disc carried by the upper end of said working chamber and controlling the discharge of leads from said magazine, a plunger for forcing the lead endwise through said working chamber, said plunger having a

spiral head, a tube mounted within said magazine and having an internal spiral engaged with the head of said plunger for advancing and retracting the latter, a cap



rotatably mounted on the upper end of said shell and attached to said tube, and means for locking said plunger against turning movement.

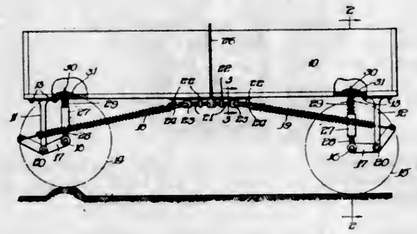
1,469,787. LEAD PENCIL. WILLIAM F. HAACK, Berwyn, Ill. Filed Jan. 12, 1922. Serial No. 528,602. 4 Claims. (Cl. 120—18.)



4. In a magazine pencil, the combination of a cylindrical shell longitudinally channeled on its inner surface throughout its full length to form magazine cells for leads, upper and lower inner tubes constituting guards for the open sides of said cells and forming with the latter upper and lower compartmental magazines, said lower tube having a longitudinal slot, a rotatable valve member connecting the meeting ends of said tubes and provided with an opening for the passage of leads from the upper to the lower magazine, a working chamber within said lower tube having an entrance way for leads registering with the slot of said lower tube, and means for forcing a lead endwise through said working chamber.

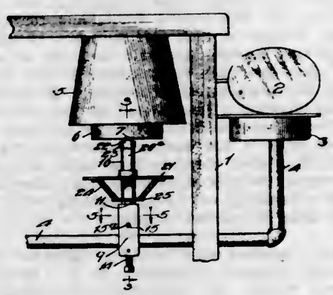
1,469,788. VEHICLE SUSPENSION MEANS. KARL HELLENTHAL, deceased, late of Chicago, Ill.; by Emil F. Link and Martin Reinel, executors. Filed Feb. 2, 1920. Serial No. 355,834. 3 Claims. (Cl. 267—20.)

1. In combination, a vehicle body, a pair of vertically movable axles, supporting members carried by said axles connected to the vehicle body at their upper ends, wheels mounted upon the said axles, an auxiliary supporting means comprising bell crank levers pivotally mounted at one of their ends to said axles, springs secured to the said bell cranks at their free ends, adjustable fastening means for securing the said springs to the vehicle body



and vertically extending brackets connected to the vehicle body at their upper ends and to the bell cranks at their lower ends, the bell cranks comprising a pair of arms extending each way from the point of support of the vertically extending brackets at an angle of approximately forty-five (45) degrees to each other.

1,469,789. OIL STOVE. RUDOLPH HOFFMAN, Kankakee, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a Corporation of New York. Filed July 3, 1919. Serial No. 308,542. 43 Claims. (Cl. 158—42.)

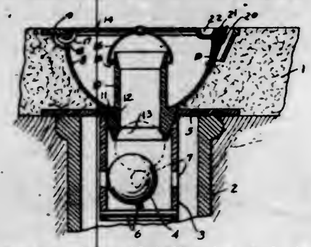


1. An oil stove comprising, in combination, with a constant level oil supply reservoir, a main delivery pipe and an oil burner including a trough, an extensible pipe connection comprising an inner stationary pipe section communicating at its lower end with said delivery pipe, an outer or movable pipe section fixed with reference to said trough and communicating therewith and of greater diameter than the inner section so as to loosely receive the latter, a tubular member forming with said inner section an annular channel for the reception of a quantity of mercury into which the lower end of the outer pipe section is adapted to be immersed, means for raising and lowering the trough, and means on said movable pipe section adapted to engage with said tubular member and the inner pipe section to close said annular channel.

1,469,790. BELL-TRAP FLOOR DRAIN. HIPOLIT H. HYSKO, Detroit, Mich. Filed May 2, 1921. Serial No. 466,362. 1 Claim. (Cl. 182—16.)

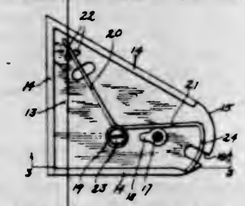
A bell trap drain comprising a cylindrical casing flanged at one end and having a tapered opening therein, a ball valve in said casing, a flanged cylindrical trap member having a central depending portion tapered

exteriorly for seating engagement with the tapered opening of said casing and interiorly tapered for seat-



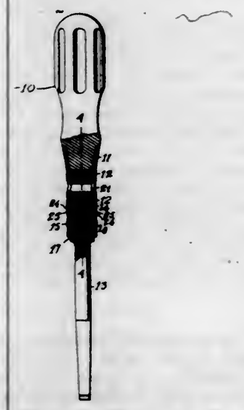
ing engagement with said ball valve, and tie members interconnecting the flanges of said valve case and trap member for retaining said members engaged.

1,469,791. ANIMAL-RELEASING DEVICE. MICHAEL JAGIELSKI, Grand Rapids, Mich. Filed Mar. 9, 1922. Serial No. 542,249. 1 Claim. (Cl. 119—116.)



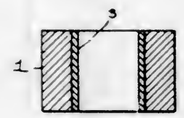
A device of the class described comprising in combination with a wall, a plurality of forwardly extending chambered elements fixed to said wall, said elements being open at their curved fronts and containing inreaching recesses in their side members, spring locking bolts pivoted between the side members of said elements, their free ends being curved in the manner of a hook to normally extend between the slotted side members to retain a ring entered therein, the hook ends of said bolts being individually manually raised through the open front, a rod passing transversely through all of said chambered elements, and cams fixed on said rod, between the side members of each chambered element for releasing all of said locking bolts simultaneously upon its partial rotation.

1,469,792. REMOVABLE-BLADE SCREW DRIVER. NELS A. JOHNSON, Jamestown, N. Y. Filed Mar. 6, 1922. Serial No. 541,373. 4 Claims. (Cl. 279—102.)



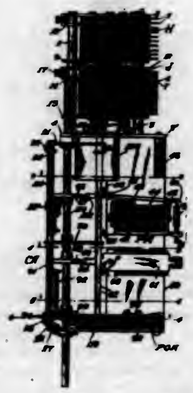
1. A screw driver handle having a socket in one end thereof, a screw driver blade fitting in said socket, and resilient means rigidly secured to said handle within said socket, and partially enclosed by said blade for retaining the latter in said socket and for transmitting drive from said handle to said blade.

1,469,793. METHOD OF INSTALLING BUSHINGS. CARL W. JOHNSON, East Cleveland, and JAMES L. MYERS, Cleveland Heights, Ohio, assignors to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 15, 1922. Serial No. 553,247. 4 Claims. (Cl. 29—149.5.)



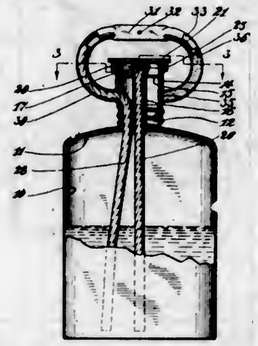
1. In a method of installing bushings, the steps which consist in mounting in a one-piece solid article having a cylindrical hole therethrough with laterally imperforate walls, a bushing of a ductile material having an undersized inside diameter, and then sizing such inside diameter of said bushing by causing excess metal to flow into the irregularities of the wall of such hole.

1,469,794. TELEPHONE SYSTEM. LEROY D. KELLOGG, Deerfield, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 17, 1919. Serial No. 277,437. 44 Claims. (Cl. 179—27.)



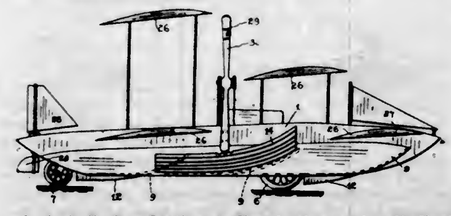
1. A two dimension automatic switch provided with a switch shaft and wipers adapted to be moved in a lineal direction and then rotated, a magnet for stepping said shaft and wipers in a lineal direction, a second magnet for adjusting said shaft and wipers in a rotary direction, said second magnet remaining inert during the stepping operation of said first magnet, and release mechanism operative by the simultaneous actuation of said magnets to first return said switch from its rotary position by spring tension and then from its lineal position by gravity.

1,469,795. ALCOHOL TORCH. JACOB KNAPP, Newark, N. J., assignor to L. S. Brach, Newark, N. J. Filed Feb. 16, 1921. Serial No. 445,327. 9 Claims. (Cl. 158—35.)



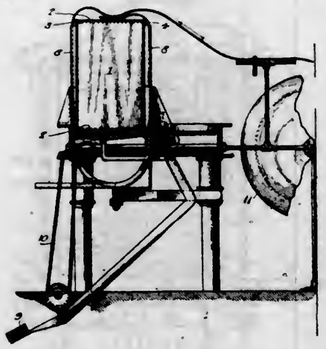
1. In a torch, the combination with a container, a wick carried by said container and adjustable means designed to exert pressure on the central portion of the top of the wick, carried by said container for controlling the passage of fluid in said wick.

1,469,796. AIRCRAFT. CHRISTOPHER J. LAKE, Bridgeport, Conn. Filed Mar. 16, 1920. Serial No. 366,273. 15 Claims. (Cl. 244—2.)



1. A hull for floating bodies having a longitudinal series of parallel walls extending beneath the bottom thereof, and a series of longitudinally separated base plates, intersecting said walls, each curved in cross section between adjacent walls, to divide the body of supporting water into furrows.

1,469,797. METHOD OF PREPARING GOODS FOR SHIPMENT. JOHN W. LESLIE, Evanston, Ill. Filed Oct. 25, 1920. Serial No. 419,444. 12 Claims. (Cl. 100—57.)

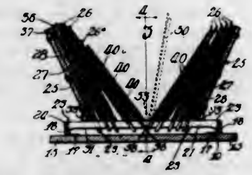


1. The method of preparing goods for shipment; which consists in enclosing them in a container, having a face, or faces adapted to be distorted inwardly, made of springy side material, applying pressure to said face to distort the same inwardly and applying a tensional binder to the container to hold the said face in distorted position, whereby the reaction of said face will serve to maintain the binder taut, in spite of shrinkage or the like.

5. The method of preparing goods for shipment, which consists in enclosing them in a substantially rigid container, having a side made of resilient material, adapted to be distorted inwardly intermediate its ends, applying localized pressure to an intermediate portion of the side to so distort the same, and applying a tensional binder around said intermediate portion to maintain the side in distorted condition.

9. A method of packing substantially incompressible contents in a container of the rigid type, which consists in arranging said contents in a box having rigid ends and sides of springy material, pressing one of said sides into distorted condition whereby this side and the one opposed to it will bear upon and be supported by the contents, and applying a tensional binder to maintain the parts in the condition described.

1,469,798. RECORD-CARD FILING DEVICE. ALFRED M. MARTIN, Chicago, Ill. Filed Mar. 28, 1921. Serial No. 456,117. 18 Claims. (Cl. 129—16.)



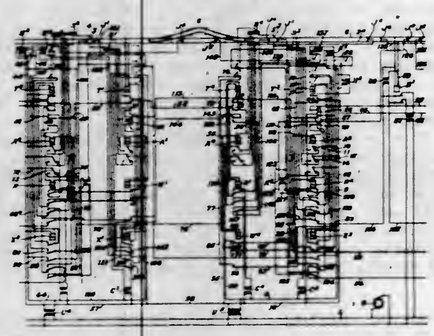
1. In a filing device, the combination of a substantially flat plate-like card-support, means for holding said support with an edge thereof downward and with the plane of the support at an angle with respect to a vertical line passing therethrough whereby cards may rest thereon, and means for holding in association with the support a plurality of cards in overlapped relation and with a portion of each overlapped card exposed beyond that part thereof which is overlapped by the adjacent card.

10. The combination of a normally horizontal base including a pair of spaced-apart substantially parallel guides, each of said guides having a plurality of alternating holding grooves and ridges, a follow-up plate mounted edgewise on the base in a position which is transverse of said guides and for movement in the longitudinal directions of the guides, the follow-up device having a pair of downwardly-directed extensions each of which is apertured to receive one of said guides, the guides being in said apertures respectively, and associated means cooperating with said grooves and ridges for holding the plate at various places on the base.

12. The combination of a base including a pair of substantially parallel horizontal rods, a pair of card-holding plates mounted face to face in up-and-down position transverse of said rods for bodily and swinging movements toward and away from each other, cards resting on the base between said plates, and means at the bottom portion of each plate adapted to coact to force the lower portions of the plates away from each other a short distance near said rods when the upper portions of the plates are swung away from each other a relatively great distance.

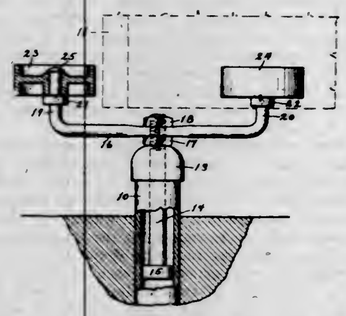
17. A card transfer device comprising a plate having a row of card-engaging teeth in a line which is adjacent to and parallel with an edge of the plate, the teeth respectively extending outwardly from one face of the plate, and means on the plate adjacent to said row of teeth for engaging a plurality of uniformly spaced guides on a base of the character described.

1,469,799. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. RONALD A. MCCANN, Swissvale, and LLOYD V. LEWIS, Edgewood Borough, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 17, 1922. Serial No. 595,068. 13 Claims. (Cl. 246—33.)



1. In combination, a section of railway track, a track circuit for said section including a source of alternating current connected with the rails adjacent the middle of the section and two track relays connected with the rails adjacent the two ends of the section, and means controlled by said relays when affected by a train in the section for disconnecting from the rails the track relay in advance of the train and connecting a source of alternating current with the rails in its place.

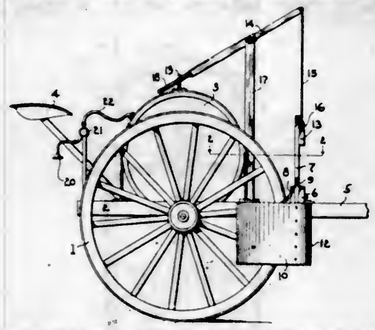
1,469,800. HOLDER FOR SWINGING DOORS. ALFRED W. MCCLEERY, Des Moines, Iowa. Filed Apr. 18, 1922. Serial No. 554,888. 2 Claims. (Cl. 292—216.)



1. A holding device for swinging doors, comprising a tubular support, a cap adapted to be screwed on the upper end of said support, a stem loosely mounted through said cap and formed with a head on its lower end freely engaging the inner walls of said support at a distance below said cap, a cross-head fixed to the upper end of said stem, and integral spaced upstanding arms on said cross-head.

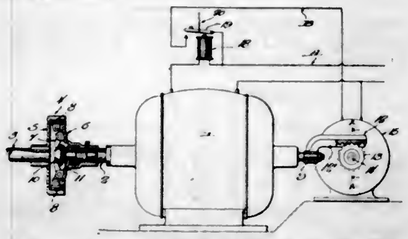
1,469,801. ATTACHMENT FOR SPRAYERS. WALTER ALBERT MCKENNEY, Corinna, Me. Filed Oct. 17, 1921. Serial No. 508,412. 7 Claims. (Cl. 280—160.)

1. The combination with a wheeled vehicle having vertical spaced guideways in a transverse plane in front of the wheels, of vertical supporting arms slidably mounted in said guideways and having fenders secured to their lower ends, said fenders being in operative position and partially embracing the respective wheels when the arms are in their lowermost position, means rigidly



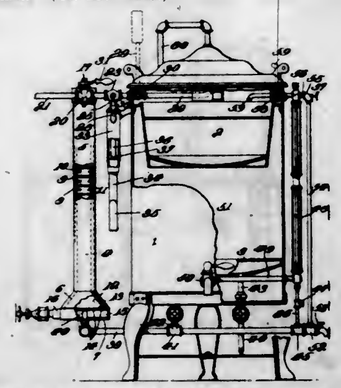
connecting the arms at their upper ends, means for raising the arms and the fenders to inoperative position, and means for locking them in that position.

1,469,802. GOVERNOR FOR ELECTRIC MOTOR DRIVES. EDWIN E. MELLENTHIN, Waukesha, Wis. Filed June 9, 1921. Serial No. 476,222. 2 Claims. (Cl. 192—150.)



1. In combination a driven shaft, an electric driving motor, provided with a current supply circuit, a clutch disposed between said driven shaft and said driving motor, electro-magnetic means for releasing said clutch, and means actuated by the supply current to connect the electro-magnetic means with the supply circuit upon a predetermined load upon the driving motor.

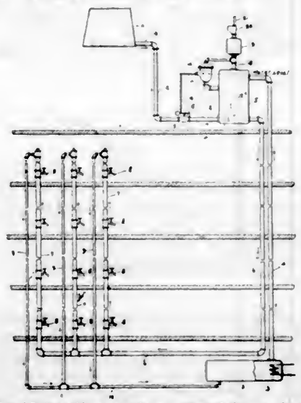
1,469,803. WATER HEATER. ALPHONSE F. MONEUSE, New Rochelle, N. Y. Filed Nov. 12, 1918, Serial No. 262,184. Renewed Apr. 2, 1921. Serial No. 458,089. 5 Claims. (Cl. 257—246.)



1. A water heater, comprising a casing having a water chamber at its lower end, heating means within the casing and spaced therefrom, means interposed between the

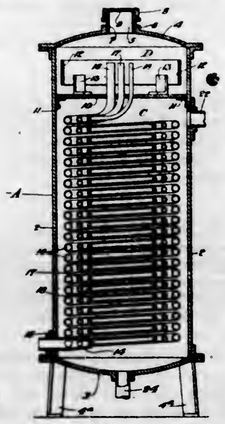
inner wall of the casing and the heating means, whereby water is caused to circulate around the heating means from one end of the casing to the other, a member forming the top of the water chamber and provided with a series of openings adapted to direct the water to the space between the casing and the heating means, through said openings.

1,469,804. LIQUID-TREATING SYSTEM. JOSEPH F. MUSSELMAN, Bronxville, N. Y., assignor to Anti-Corrosion Engineering Company, New York, N. Y., a Corporation of New York. Filed Mar. 25, 1920. Serial No. 368,803. 21 Claims. (Cl. 137—79.)



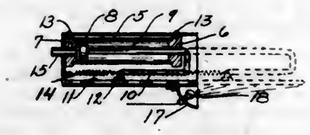
1. A liquid treating system comprising a heating tank, a deaërator for separating dissolved gases from the liquid, piping forming circulating means for conducting heated liquid from the heating tank to the deaërator, and means for supplying additions of liquid to the system, said liquid supplying means being constructed and arranged to conduct the added liquid through the body of heated liquid within the deaërator to a point slightly below the liquid level, to thereby partly heat the additions of liquid prior to the mixing thereof with the heated liquid in said system.

1,469,805. HEAT EXCHANGER. JOSEPH F. MUSSELMAN, Bronxville, N. Y., assignor to Anti-Corrosion Engineering Company, New York, N. Y., a Corporation of New York. Filed Aug. 8, 1921. Serial No. 490,540. 6 Claims. (Cl. 257—229.)



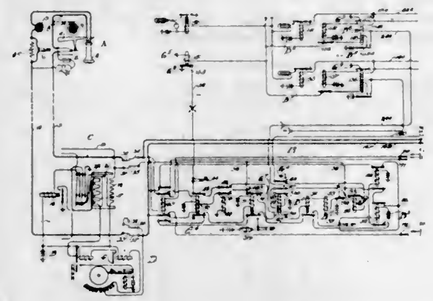
3. In a tank of the class described, a diaphragm for dividing said tank into upper and lower chambers, said lower chamber being provided with hot water inlet and outlet ports for causing a circulation of hot water therethrough, a plurality of helical coils within said lower chamber adapted to have their lower ends connected by a suitable manifold to a cold water supply, said coils passing upwardly through approximately the center of said diaphragm and having their upper ends terminating within said upper chamber, and a plurality of circulation pipes extending along the sides of said tank in suitable spaced relation and having their ends terminating in and communicating with said upper and lower chambers.

1,469,806. TRAFFIC SIGNAL FOR AUTOMOBILES. MICHAEL C. OHL, Denver, Colo. Filed Mar. 31, 1923. Serial No. 629,076. 4 Claims. (Cl. 116—39)



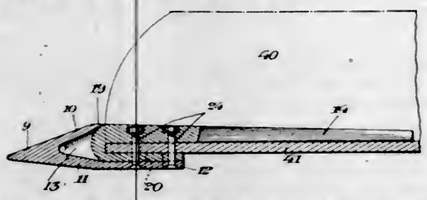
1. An automobile traffic signal comprising, in combination, a cylinder, a piston slidably mounted therein; a piston rod connected to said piston; a plate secured to said piston rod, said plate having an insignia thereon; a casing enclosing the cylinder plate; a spring means for normally holding the piston and plate in retracted position; a pipe connected to the cylinder, said pipe being adapted to conduct gas under pressure to the cylinder whereby the piston will be moved against the tension of the spring means so as to cause the plate to protrude from the casing; a source of compressed gas; means connecting said source to the pipe; a valve in said means; a second pipe connected to the first named pipe; a valve in said second pipe; and means connecting said valves in such a manner that when one valve is closed, the other will be opened.

1,469,807. AUTOMATIC TELEPHONE SYSTEM. RODNEY G. RICHARDSON, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 8, 1917. Serial No. 141,120. 50 Claims. (Cl. 179—27.)



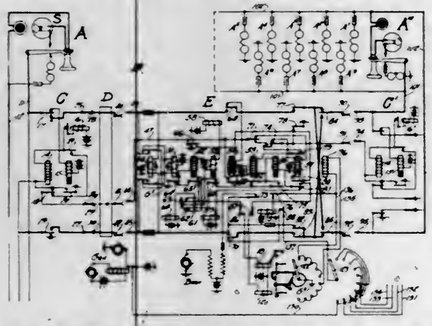
3. In a telephone system, a subscriber's line, a trunk line terminating in an automatic selector switch, a finder switch, a branch of said trunk line terminating in the bank of said finder switch, means for extending said line when calling to said trunk line, an impulse sender at the substation on the calling line for operating said selector switch, and an auxiliary device associated therewith for initiating the operation of said finder switch.

1,469,808. DIPPER TOOTH. EDWARD LOUIS PEMBERTON, New York, N. Y., assignor to The Frog Switch & Manufacturing Company, Carlisle, Pa., a Corporation of Pennsylvania. Filed Feb. 16, 1923. Serial No. 619,331. 13 Claims. (Cl. 37—142.)



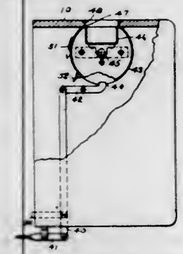
1. A dipper tooth comprising a base and a point bifurcated to embrace said base, said base and point having one a pair of lugs at the sides thereof overlapping the outer side edges of the other.

1,469,809. AUTOMATIC TELEPHONE SYSTEM. ARTHUR J. RAY, Chicago, and HERBERT F. OBERGFELL, Austin, Ill., assignors to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 20, 1920. Serial No. 411,568. 12 Claims. (Cl. 179—17.)



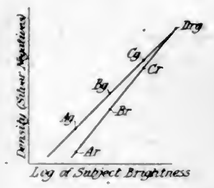
1. In a selective ringing telephone system, party lines, a connector switch provided with frequency selecting means, there being only half as many different frequencies of ringing current to be selected as there are stations on a party line, and means in said connector cooperating with said frequency selecting means whereby all the stations on a party line may be selectively signalled, said means comprising a frequency selecting mechanism and a separate line conductor reversing device.

1,469,810. SAFE. AUGUST W. REILING, Fort Wayne, Ind. Filed Aug. 20, 1921. Serial No. 493,883. 5 Claims. (Cl. 109—1.)



1. A case having an opening in one of its walls, a receptacle accessible through the opening, movable means within the case to close the opening, means to control the closing movement of the movable means having an operating connection exteriorly of the case, a door on the case, locking bolts on the door, means to lock the bolts against movement, means normally supporting the latter means in inactive position, a time lock mechanism, means to lock the said mechanism against operation and means adapted to be operatively connected to the said controlling means when the door is closed, to simultaneously release the time lock mechanism and the engagement of the bolt locking means on its support whereupon the bolt locking means moves into locking position and the clock mechanism at the expiration of a selected period of time restores the said bolt locking means onto its support.

1,469,811. COLOR PHOTOGRAPHY. JOHN G. CAPSTAFF, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed July 12, 1922. Serial No. 574,363. 6 Claims. (Cl. 95—2.)



1. In the art of color photography wherein color component silver images are made and severally transformed into complementary dye images, the improvements that comprise the formation of the silver images with different characteristics of density and contrast, and carrying the transformation to different stages of completeness to compensate for the differences in characteristics.

1,469,812. CELLULOSE-ETHER SOLVENT AND COMPOSITION. STEWART J. CARROLL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 1, 1921. Serial No. 457,721. 7 Claims. (Cl. 106—40.)

5. A composition of matter, comprising cellulose ether and acetone oil.

1,469,813. CELLULOSE-ETHER SOLVENT AND COMPOSITION. STEWART J. CARROLL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 5, 1921. Serial No. 458,743. 3 Claims. (Cl. 106—40.)

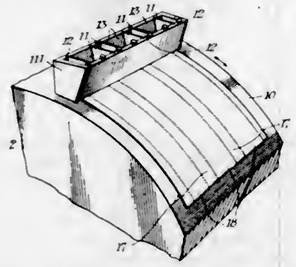
1. A viscous flowable film-forming composition, comprising an ether of cellulose dissolved in a mixture of methyl benzoate and a lower monohydroxy aliphatic alcohol.

1,469,814. PHOTOGRAPHIC-CUT-FILM HOLDER. WILLIAM F. FOLMER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed July 7, 1922. Serial No. 573,399. 9 Claims. (Cl. 95—66.)



1. In a holder for photographically sensitive material, the combination with a film-supporting plate, of means for supporting the plate, including rails, said rails having portions adapted to engage the film edges and being positioned between the film-supporting plate and its supporting member.

1,469,815. PROCESS OF MAKING COMPOSITE FILMS. FRANK W. LOVEJOY, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Original application filed May 5, 1922, Serial No. 558,747. Divided and this application filed June 24, 1922. Serial No. 570,640. 14 Claims. (Cl. 18—57.)

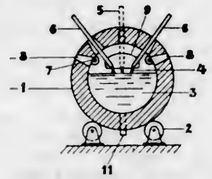


1. The process of making a composite cellulosic film, which comprises the steps of shaping film strips from colloidal cellulosic material containing a volatile solvent and contacting the edges of said strips to interunite the same under the action of said solvent while sufficient of the latter for said interuniting still remains in said strips.

1,469,816. CELLULOSE-ETHER COMPOSITION. IRVING C. MATTHEWS, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 26, 1922. Serial No. 609,129. 5 Claims. (Cl. 134—79.)

4. A viscous flowable composition comprising water-insoluble ethyl cellulose dissolved in a mixture of from 10 to 75 parts of beta-chloro ethyl acetate with from 80 to 25 parts of benzol.

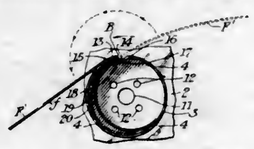
1,469,817. METHOD OF ELECTRICALLY MELTING METALS AND IN AN ELECTRIC FURNACE. IVAR RENNERFELT, Djursholm, Sweden. Filed June 16, 1921. Serial No. 478,095. 4 Claims. (Cl. 204—64.)



1. The method of melting a metal which consists in providing a carefully insulated electric furnace charging it gradually with metal at a certain rate extending over nearly twenty-four hours time and causing the metal to melt by supplying electric power at a rate, which is sufficient to cover the loss of heat from the furnace and to furnish the amount of heat required for melting slowly the quantity of metal intended to be discharged about once every twenty-four hours.

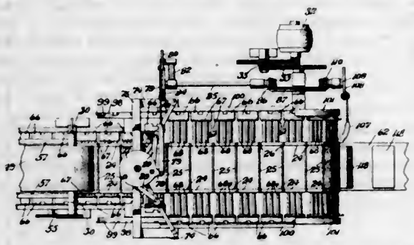
1,469,818. MOTION-PICTURE-FILM REEL. JOHN A. ROBERTSON, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 26, 1922. Serial No. 597,144. 5 Claims. (Cl. 242—74.)

3. In a reel, the combination with flanges, of a hub carrying the flanges, said hub being made from strip material bent into a cylinder and having straight ends, one end of the strip being offset from the other end and partially lying beneath said other end, the ends of the strip material being spaced one from the other and substantially parallel to each other, whereby a film may



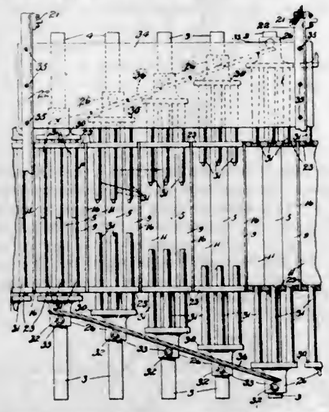
be held on the spool by a sharp bend made by folding the film about the upper end of the strip material causing the film to lie adjacent to both surfaces of at least a portion of the strip material.

1,469,819. PLASTER-BLOCK-MAKING MACHINE. GEORGE H. A. RUBY, Grand Rapids, Mich., assignor to James R. Offield, trustee, Chicago, Ill. Filed Oct. 24, 1921. Serial No. 509,805. 16 Claims. (Cl. 25—99.)



1. In combination, an endless conveyer, means for mounting the same, means for driving the conveyer, a consecutive series of individual block forms attached to the outer sides of the conveyer, each of said forms comprising spaced apart sides connected at one end by a cross end member, said sides being attached to the conveyer at their under edges substantially midway between their ends, and means for continuously feeding cementitious material into the forms at the upper side of the conveyer.

1,469,820. PLASTER-BLOCK MACHINE. GEORGE H. A. RUBY, Fort Dodge, Iowa, assignor to James R. Offield, trustee, Chicago, Ill. Filed Oct. 25, 1922. Serial No. 596,754. 11 Claims. (Cl. 25—99.)



1. In combination with an endless conveyer mounted horizontally, of a plurality of individual block forms attached to the outer sides of the conveyer, said forms having ends provided with openings therethrough, a plu-

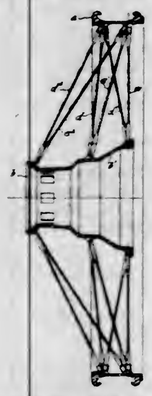
rality of core members inserted through said openings, said core members for each form having inner ends adapted to detachably join together, a head slidably mounted at each end of each form to which the core members for each end of a form are secured, a roller on each head, and cam bars mounted one at each side of the conveyer with which said rollers successively engage to automatically move the heads and attached core members outwardly as the same pass with the conveyer by said cam bars, substantially as described.

1,469,821. COASTER WAGON. JOHN J. RYAN, Hopkins, Minn. Filed Apr. 7, 1922. Serial No. 550,437. 1 Claim. (Cl. 280—87.5.)



A coaster wagon comprising a pair of straight longitudinally extended and edgewise spaced bars, each of said bars having its end portion bent downward and toward each other under the respective bar to form front and rear spring members, the ends of said rear spring members being folded upon themselves to afford jaws, a rear axle mounted in said jaws, nut-equipped bolts extending through said jaws outward of the rear axle and frictionally clamp said jaws thereon, a bolster secured to and connecting the ends of the front spring members, a front axle attached to the bolster, and wheels journaled on the two axles.

1,469,822. WIRE-WHEEL CONSTRUCTION. CLAUDE SAUZEDDE, Detroit, Mich. Filed Jan. 19, 1920. Serial No. 352,507. 15 Claims. (Cl. 301—56.)



1. In a wire wheel construction, a hub, a rim, and spokes connecting the hub and rim, said spokes being arranged in two groups, with each group having its spoke ends located approximately on a circle of the rim independent of the other group, a group having the hub ends of its spokes located on more than two approximate circles of the hub, and with the hub circles spaced apart not less than the spacing of the radial load spokes of both groups.

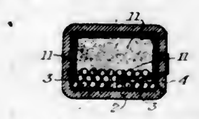
1,469,823. FLOWER HOLDER. WILLIAM F. SCHMEISER, Binghamton, N. Y. Filed Nov. 15, 1922. Serial No. 601,142. 1 Claim. (Cl. 24—5.)

In combination, a single length of spring steel wire formed about midway in a coiled spring and the equal and parallel ends projecting therefrom, for a space horizontally, then bent diagonally backward and upward for a space, then bent forward horizontally on a line with the extension from the coiled spring, then bent vertically downward, passing between the parallel ex-



tension sections extending from the coiled spring, and holding spaced apart in resilient pressure, the sections extending horizontally from the coiled spring, all for the purposes specified.

1,469,824. PROCESS OF PREPARING ALKALI CELLULOSE. PAUL C. SEEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 27, 1923. Serial No. 615,414. 4 Claims. (Cl. 260—152.)



4. The process of preparing pulverulent intimately mixed alkali cellulose, suitable for etherification, which comprises the steps of compacting caustic soda, cellulose, and water into a dense layer, breaking up said layer into fragments, and then grinding said fragments to powder.

1,469,825. CELLULOSE-ETHER COMPOSITION. PAUL C. SEEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 5, 1923. Serial No. 610,922. 5 Claims. (Cl. 134—79.)

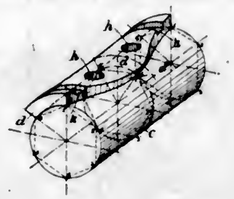
3. A flowable film-forming viscous composition of matter comprising water-insoluble ethyl cellulose dissolved in a solvent comprising 25 parts by weight of butyl acetate to 75 parts of methyl alcohol.

1,469,826. CELLULOSE-ETHER COMPOSITION. PAUL C. SEEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 5, 1923. Serial No. 610,923. 5 Claims. (Cl. 134—79.)

4. A flowable film-forming composition of matter comprising water-insoluble ethyl cellulose, mesityl oxide and a volatile vehicle containing methyl acetate and methyl alcohol.

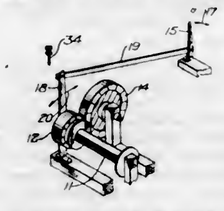
1,469,827. CONNECTION FOR CONNECTING RODS OF RECIPROCATORY ENGINES ACTING ON A COMMON CRANK. GIULIO SILVESTRI, Rodaun, near Vienna, Austria. Filed Jan. 12, 1921. Serial No. 436,792. 2 Claims. (Cl. 74—17.)

2. A connecting rod for reciprocating engines having several cylinders the pistons of which act upon a common crank, in which the surface of the head of the connecting rod bearing directly against the crank pin is shaped as a ring segment and is bounded on each side



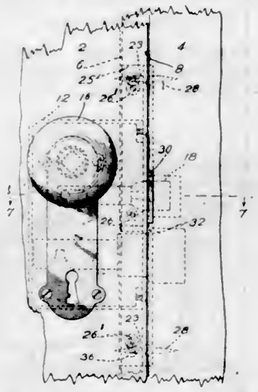
in the circumferential direction by two helices of like pitch and of opposite direction meeting midway of the length of the crank pin at an angle to one another.

1,469,828. SAND WHEEL FOR OIL WELLS. EDWARD M. SMITH, Los Angeles, Calif. Filed Dec. 6, 1921. Serial No. 520,251. 2 Claims. (Cl. 74—26.)



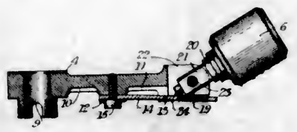
1. In a friction pulley, the combination of: a cylindrical band; a block retainer having a cylindrical bore to fit snugly upon said band; a plurality of friction blocks fitting over and carried by said retainer; and bolts passing through said blocks, said retainer and said band and locking said retainer and blocks solidly on said band.

1,469,829. REVERSIBLE LOCK. ERNEST L. TEICH, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed May 3, 1922. Serial No. 558,178. 5 Claims. (Cl. 70—16.)



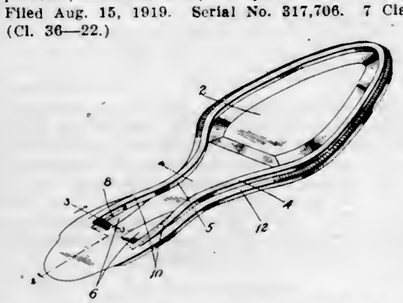
1. A lock for double doors of the type having rabbeted edges forming flanges that are arranged to engage when the doors are closed having, in combination, a lock case and a reversible latch bolt mounted in one of the doors, a reversible face plate for the lock adapted to be applied to the front face of the flange of said door, a reversible striker plate adapted to be applied to the front wall of the rabbet of the other door, and flanges for both of said plates adapted to be applied to the inner sides of the flanges of the doors and to other side of the plates, respectively, to enable the lock to be used on either right or left hand doors.

1,469,830. OPERATING HANDLE FOR MOTION-PICTURE CAMERAS. JULIEN TESSIER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 17, 1922. Serial No. 601,623. 4 Claims. (Cl. 74—33.)



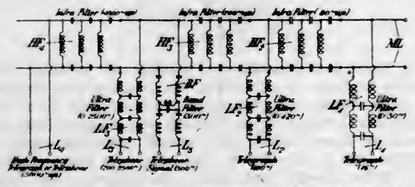
1. Manual operating means for a motion picture camera comprising a shaft, a crank rigid therewith and a handle pivoted at one end to the crank, said crank having a leaf spring secured thereto and bearing against the pivoted end of the handle, said handle having a flat surface against which the spring is adapted to bear to hold the handle resiliently in one position, and the spring and handle having co-operating latch members, whereby the handle is positively latched in another position.

1,469,831. SHOE. HENRY BENJAMIN GORMAN, Cambridge, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 15, 1919. Serial No. 317,706. 7 Claims. (Cl. 36—22.)



1. As an article of manufacture, a sole for shoes provided with a marginally extending rib to receive stitches for the attachment of a shoe upper, and a depression adjacent to the inner wall of said rib, those portions of the depression adjacent to the inner wall of said rib at or near the heel breast line of the sole being deeper than the remaining portions.

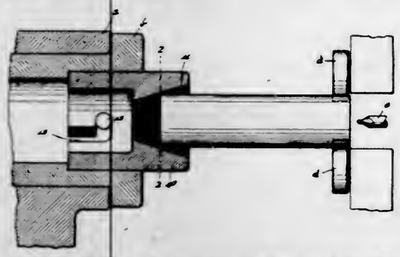
1,469,832. SELECTIVE CIRCUITS FOR MULTIPLEX SIGNALING. BAXTER P. HAMILTON, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 23, 1919. Serial No. 325,681. 14 Claims. (Cl. 179—15.)



14. A plurality of pairs of filters one filter of each pair being a low-pass filter and the other a high-pass filter, a circuit common to all of said filters for convey-

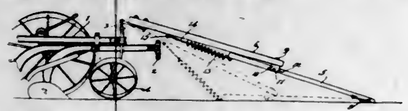
ing currents of different frequencies successively through certain filters of different pairs, and a branch circuit individual to each of said pairs of filters for conveying currents of only the frequencies that are transmitted by the filters of said pair.

1,469,833. CHUCK. BENGT M. W. HANSON, Hartford, Conn. Filed Mar. 24, 1922. Serial No. 546,294. 4 Claims. (Cl. 279—99.)



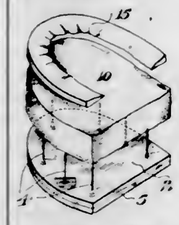
1. A chuck having a tapered recess provided with a plurality of spiral ribs of relatively fine pitch.

1,469,834. STEERING TONGUE. JUNIUS BRUCE HATHAWAY and ALFRED REGINALD MCDIARMID, Brandon, Manitoba, Canada. Filed Apr. 15, 1922. Serial No. 552,921. 5 Claims. (Cl. 278—36.)



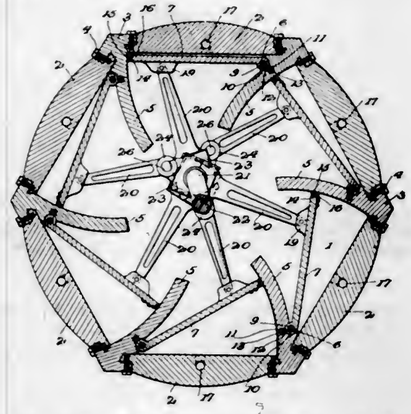
1. In a steering tongue, a rear tongue section and a forward tongue section, the rear end of the forward section passing to the rear of the front end of the rear section, a pivot fastening connecting the forward end of the rear section to the adjoining portion of the front section, said pivot fastening permitting of the lateral and vertical swinging of the front section and a spring yieldingly connecting the rear end of the front section to the rear part of the rear section.

1,469,835. PROCESS OF MAKING HEELS. CHESTER HUNT, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 14, 1918. Serial No. 217,228. 6 Claims. (Cl. 12—147.)



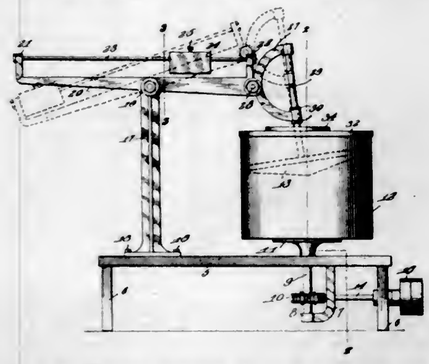
6. That improvement in methods of making heels which consists in providing top and bottom elements to form respectively the tread and seat lifts of a heel, arranging between said elements an integral body element of homogeneous, semi-plastic material equal in thickness to a plurality of heel lifts, and then compressing said elements and while the elements are under compression driving fastenings positioned to attach together said top and bottom elements and said body portion and hold them under compression.

1,469,836. ENGINE. WILLIAM A. HOLDINGHAUSEN, Clovis, N. Mex. Filed Jan. 19, 1920. Serial No. 352,417. 3 Claims. (Cl. 121—97.)



2. An engine having an approximately cylindrical, stationary casing, said casing comprising a plurality of head plates, corner bars inserted between said head plates and securely attached thereto by means of bolts or the like, arcuate partitions on said corner bars extending inwardly in substantially radial direction between said head plates to form abutments, said partitions being arcuate, a working chamber being formed between each pair of adjacent partitions and an intermediary head plate; a flat blade in each of said working chambers hinged on the partition in the corner formed between the head plate and the convex side of one of said partitions, said flat blade extending across the chamber and adapted to contact with the convex side of the other partition forming said chamber, the convex side of each partition being concentric with the axis of the hinge in its chamber; a crank shaft extending axially through the casing, linked connection between said crank shaft and each of said blades, means for admitting fluid under pressure to, and exhausting it from the several chambers successively, packing strips along the working edges of each blade, and holding fingers for securing said strips to each blade.

1,469,837. WASHING MACHINE. CHARLES M. HUNTINGTON, East Randolph, N. Y. Filed Mar. 12, 1923. Serial No. 624,571. 3 Claims. (Cl. 61—24.)



1. In a washing machine, a platform, a rotatable container on the platform, a pivoted supporting arm mounted above the platform, a pivoted bracket at one

end of the supporting arm, means for adjusting the supporting arm, a shaft supported by the bracket, and a head on the lower end of the shaft and positioned in the container.

1,469,838. COMBINATION TOOL. CHARLES B. JACOBY, Nanticoke, Pa. Filed Apr. 18, 1922. Serial No. 554,738. 1 Claim. (Cl. 7—16.)

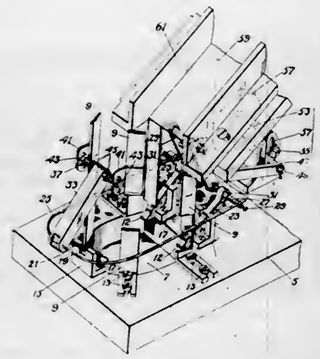


A device of the class described comprising a casing composed of a single strip of metal folded intermediate its ends and bent to provide a housing, said strip being outwardly bowed in advance of said housing with its free ends extended toward each other and connected to form the end of the handle, and a plurality of tools pivotally mounted between the side members of said strip with one end extending into said housing, said housing having a recess in one edge to form a seat for a tool when swung outwardly.

1,469,839. THE MANUFACTURE OF A COATING FOR CLOTHS FOR AEROPLANE WINGS OR PLANES AND THE LIKE. KIYOSHI KAWASHIMA, Mitsugi-gun, Japan. Filed Dec. 11, 1922. Serial No. 606,258. 3 Claims. (Cl. 134—79.)

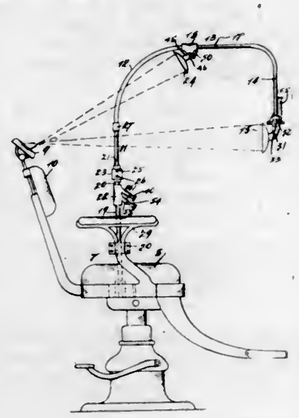
2. A method of producing a coating material for cloths for aeroplane wings or planes and the like, which consists in treating nitro-cellulose with an aqueous solution of boric acid and hydrogen peroxide, and then dissolving said treated nitrocellulose in acetone, and then dissolving boric acid and magnesium chloride in the same.

1,469,840. FEED MECHANISM. CUTLER D. KNOWLTON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 31, 1919. Serial No. 334,773. 35 Claims. (Cl. 12—12.)



1. A machine of the class described, having in combination, a magazine for holding a stack of articles in substantial alinement with one another having stationary means located to support one end of the stack and adapted to resist force applied in the direction of the length of the stack, and means for manipulating the article which is in contact with said supporting means while maintaining said article undistorted to move it past said supporting means in a path which extends in the same general direction as does the stack.

1,469,841. ADJUSTABLE SPOTLIGHT FOR DENTAL CHAIRS. LEON LAZAR, New York, N. Y. Filed Aug. 5, 1920, Serial No. 401,333. Renewed Mar. 2, 1923. 5 Claims. (Cl. 240—4.)



1. In a spotlight adapted for use with a dental chair, a vertically disposed support, a spotlight adjustably secured to the free end of the support, a spotlight adjustably secured to the support intermediate its ends, and means carried by the support arranged to adjust said spotlights in order that rays of light can be directed into the mouth of a patient, one light being for the upper jaw, the other for the lower jaw.

1,469,842. AUTOMATIC WINDOW SHADE. THOMAS POSTELL LIVINGSTON, North Augusta, S. C. Filed Jan. 5, 1922. Serial No. 527,143. 1 Claim. (Cl. 156—28.)



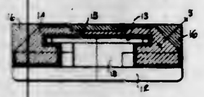
A device of the character described comprising in combination, a shade bracket having an opening, teeth formed on the wall of the opening throughout a portion of the length of the wall, a roller, pintles in the ends of the roller, the pintle at one end of the roller having ribs formed thereon, the ribs adapted to normally engage the teeth of the wall of the opening to restrict movement of the roller, means for moving the roller, a curtain wound on the roller, and one end of the curtain being weighted to normally hold the same in an extended position.

1,469,843. WOOD BINDER. AMSEY P. LLOYD, Elkhart, Ind. Filed Feb. 21, 1923. Serial No. 620,535. 3 Claims. (Cl. 85—11.)



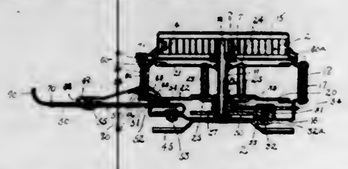
1. A wood binder comprising a bar having a substantially wedge shaped cross section, having two rearwardly curved and structurally integral members on each end, each of said members having a substantially wedge shaped cross section.

1,469,844. SHUTTLE-GUIDE BLOCK FOR NARROW-WARE LOOMS. JOSEPH S. MANN, Worcester, Mass., assignor to Crompton & Knowles Loom Works, a Corporation of Massachusetts. Filed Feb. 8, 1922. Serial No. 535,098. 3 Claims. (Cl. 139—188.)



1. The method of forming a shuttle guide block, which comprises shaping and grooving the guide block, impregnating the outer portion of the guide block with a lubricant, thereafter cutting slots through the impregnated portion to the untreated material within, and adhesively securing a reinforcing strip therein.

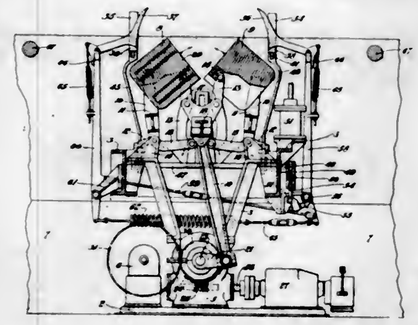
1,469,845. AUTOMATIC FISHING REEL. ALFRED D. MAURY, Ilion, N. Y., assignor to Martin Automatic Fishing Reel Company, Mohawk, N. Y., a Corporation of New York. Filed June 14, 1921. Serial No. 477,370. 3 Claims. (Cl. 242—84.5.)



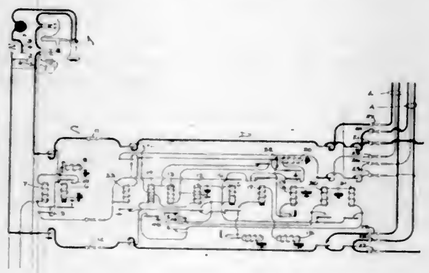
3. In an automatic fishing reel, a rotary line spool, a lever carrying a pad, and having formed therein a recess, a brake shoe, a second lever having a bent end for fitting into the recess of the first named lever, whereby to hold said levers in given relation to each other, and means permitting the depression of the first named lever, whereby to cause the bent end of the second named lever to fall into the recess of the first named lever to lock said levers in given relation, whereby to stop the rotation of the spool, and means permitting the further depression of the first named lever, whereby to unlock said levers to allow for the rotation of the spool.

1,469,846. DOUBLER. HOWARD G. MCILVRIED, Pittsburgh, Pa., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Apr. 25, 1922. Serial No. 556,440. 4 Claims. (Cl. 153—16.)

1. A doubling machine for metal plates and sheets, comprising a base, a frame supporting structure, a doubling table composed of two leaves, arms pivotally secured to said frame and to said table leaves for supporting said leaves, links pivotally secured to said leaves intermediate their ends adjacent their inner side faces, said links having their other ends pivotally secured to the upper end of levers which have their lower ends pivotally secured to said frame, a cross head having upwardly and outwardly extending arms, said arms being pivotally connected intermediate the ends of said links, a connecting rod pivotally connected to said cross head, and means for reciprocating said connecting rod to cause said table leaves to move downwardly and inwardly toward each other.



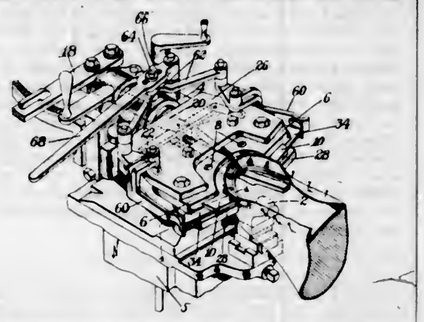
1,469,847. AUTOMATIC TELEPHONE SYSTEM. WILLIAM WALTER OWEN, Oak Park, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed May 20, 1918, Serial No. 235,452. Renewed Jan. 22, 1923. 32 Claims. (Cl. 179—18.)



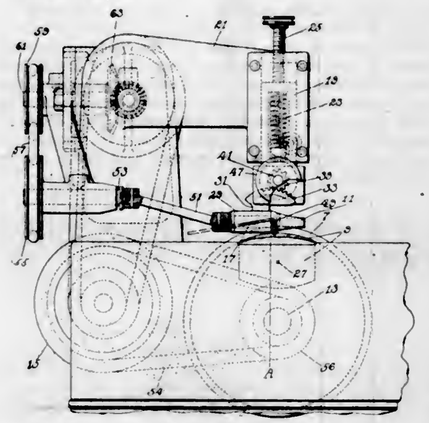
1. In a telephone system, an automatic switch, a plurality of wipers for said switch, trunk lines, a calling device having a pair of impulse springs for controlling said switch to connect said wipers simultaneously with different trunk lines, a dial for said device, a plurality of concentric rows of finger holes on said dial for variably controlling said impulse springs, the corresponding concentric holes of each row being arranged to control said impulse springs in a similar manner, a switching device controlled by said calling device when controlled by the holes of one row for switching from one to another of said wipers, and a switching device controlled by said calling device when controlled by the holes of another row for switching to another of said wipers.

1,469,848. LASTING MACHINE. CHARLES F. PYM, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 15, 1918, Serial No. 244,974. Renewed Aug. 9, 1922. Serial No. 580,812. 42 Claims. (Cl. 12—14.)

1. A machine for lasting the toe portion of a welt shoe having, in combination, end embracing wipers and shoe positioning means relatively movable to wipe the upper over the periphery of the toe of the last to the edge of the shoe bottom and then over the feather of the innersole, and means for forcing a binder into holding relation to the upper in the angle between the feather and the rib of the innersole and for inserting the ends of the binder into the shoe while the wipers continue to hold the upper firmly in lasted position.



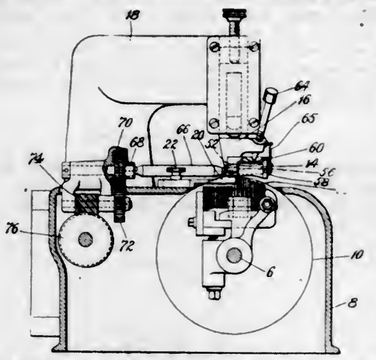
1,469,849. SKIVING MACHINE. EUGENE J. RAY, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 23, 1921. Serial No. 487,156. 8 Claims. (Cl. 69—9.5.)



1. A machine of the class described, having in combination, a rotary cylindrical knife, a rotary feed roll having a periphery which is convex longitudinally of the roll, a rotary presser roll having a large end and a small end, the periphery of the presser roll being concave longitudinally to correspond to the convex longitudinal curvature of the periphery of the feed roll, the large end of the presser roll being located above the feed roll and at one side of a vertical plane passed transversely through the center of the feed roll and having its smaller end extending over the smaller end of the feed roll, an edge gage located adjacent the larger end of the presser roll, and means for driving the presser roll.

1,469,850. SKIVING MACHINE. FRED RICKS and ALFRED EDWARD RICHARDS, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 23, 1921. Serial No. 479,836. 14 Claims. (Cl. 69—9.5.)

1. A machine of the class described, having in combination, a rotary skiving knife and means for feeding a piece of sheet material to the knife in such manner as to produce a beveled margin thereon, said means comprising two members adapted to engage the margin of the material, one on one side and one on the other, the operative faces of said members being shaped to bend the margin into a curve and to exert maximum pressure upon the margin at a locality spaced from the edge of the material.

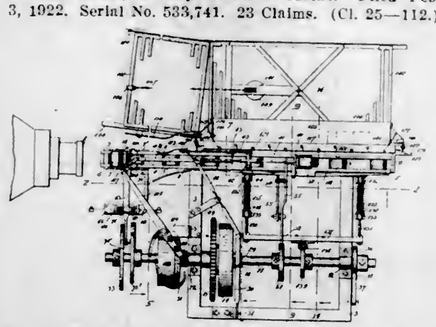


1,469,851. ATTACHMENT FOR HOOD CLAMPS OF AUTOMOBILES. JAMES SCULLY and WILLIAM B. MCCOY, Sullivan, Ind. Filed Mar. 8, 1922. Serial No. 542,033. 3 Claims. (Cl. 292—67.)



1. In an attachment for hood clamps of automobiles, the combination with the head of a clamp, a plate applied to one side of said head, a plate having a handle applied to the other side of said head, and means extending through the plates for clamping them on the head.

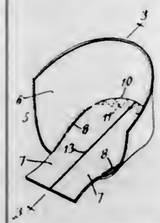
1,469,852. MACHINE FOR CUTTING SOAP OR OTHER PLASTIC MATERIAL. LOUIS H. SIMPSON, Malden, Mass., assignor to Potter Drug & Chemical Corporation, Malden, Mass., a Corporation of Maine. Filed Feb. 3, 1922. Serial No. 533,741. 23 Claims. (Cl. 25—112.)



1. A machine of the type specified comprising in combination a stationary way onto which is received a main bar of plastic material continuously fed, a power-operated

mechanism, means for controlling said mechanism to function at intervals, means operated from off said mechanism for severing bar sections from the main bar during the feed thereof, means operable from off said mechanism for engaging and moving each severed bar section along said way ahead of the main bar into a determinate position in the path of said bar, and mechanism for afterward moving said severed section out of the path of the main bar and cutting it into cakes.

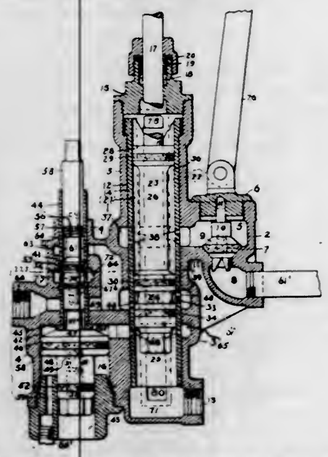
1,469,853. HEEL LINING FOR BOOTS AND SHOES. ISAAC STEIN and SAMUEL STEIN, Revere, Mass. Filed Jan. 15, 1923. Serial No. 612,668. 3 Claims. (Cl. 36—55.)



1. A heel lining for a shoe formed of a single piece of flexible sheet material and embodying therein a counter portion and sole portions formed integral with said counter portion, said sole portions being stitched together longitudinally thereof.

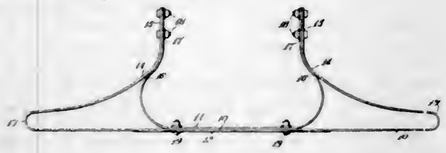
3. A heel lining for a shoe formed of a single piece of flexible sheet material and embodying therein a counter portion and sole portions formed integral with said counter portion, said sole portions being provided with curved rear ends and being stitched together longitudinally thereof to form a centrally disposed seam, said counter portion being provided with serrations formed at its lower edge between said curved ends of said sole portions, said serrations being adapted to fold beneath said sole portions at said curved ends and means to secure said serrations to said sole portions.

1,469,854. COMPOUND REGULATING VALVE. GEORGE J. STUART, Pittsburgh, Pa. Filed Feb. 28, 1921. Serial No. 448,571. 3 Claims. (Cl. 138—16.)



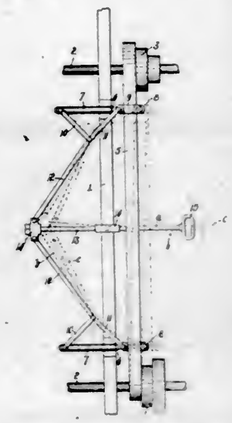
1. In a valve, a casing, a main chamber therein, a valve for admitting fluid pressure thereto, a manually-operated valve for admitting lower fluid pressure to the chamber, an exhaust passage, a piston connected to the first valve, and having its ends provided with areas of different sizes subject to fluid pressure, means connecting the larger of said areas with the main chamber and the exhaust passage, the second valve in one position cutting off the said larger area from the exhaust passage and placing the said larger area in communication with the main chamber, and in another position cutting off the said larger area from the main chamber and placing the said larger area in communication with the exhaust passage, means admitting the lower pressure to the smaller area of the piston to prevent the operation of the first valve when the fluid pressure in the chamber is below a predetermined value, and a check-valve between the second valve and the source of the lower pressure to prevent the fluid from the source of higher pressure from communication with the source of lower pressure.

1,469,855. AUTOMOBILE BUMPER. FRANK TOMASEK, Chicago, Ill. Filed Sept. 18, 1922. Serial No. 588,913. 2 Claims. (Cl. 293—55.)



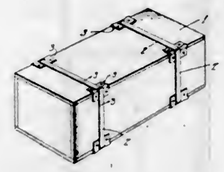
1. An automobile bumper comprising a relatively long spring bar bent to provide rearwardly projecting end portions adapted to support said bar in a horizontal position across an automobile, a shorter inner bar of spring metal bent to provide rearwardly projecting ends, and adapted to be secured to the ends and middle portion of the said outer bar, and a relatively wide buffing plate removably secured to said outer and inner bars with capacity for normal relative movement between said inner bar and buffing plate.

1,469,856. BELT SHIFTER. WALLACE A. TRAUFLER, Toledo, Ohio. Filed Jan. 30, 1922. Serial No. 532,557. 7 Claims. (Cl. 64—4.)



1. A belt shifter of the class described, having spaced belt engaging slide members spaced lengthwise of the belt, stationary means forming a guide for each slide member, and means having toggle connection with each slide member and with the stationary means adjacent to each slide member and operable both to impart like simultaneous movements and relative movements to the slide members.

1,469,857. BOX-STRAPPING DEVICE. SIDNEY W. TREAT, Chicago, Ill., assignor to Signode System, Inc., Chicago, Ill., a Corporation of Delaware. Filed Dec. 16, 1920. Serial No. 431,072. 14 Claims. (Cl. 217—69.)



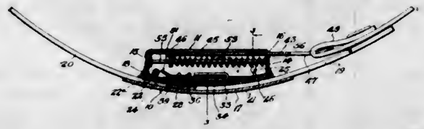
1. A box reinforcing member including integral metal flanges having the major portions thereof extending at substantially right angles to each other, said flanges being provided adjacent to their meeting edges with opposed openings adapted to receive a tensional binder.

1,469,858. GARMENT. JOHN MANNING VAN HEUSEN, Boston, Mass. Filed Sept. 29, 1921. Serial No. 504,222. 4 Claims. (Cl. 2—142.)



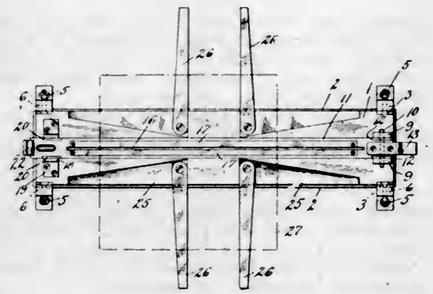
3. In garments, liners for those portions of the garment which clasp the body, said liners being of pile fabric and having the pile thread inclined in the direction of slip of the garment.

1,469,859. BUCKLE. ALFRED VEILLETTE, Attleboro, Mass., assignor to Saart Brothers Company, Attleboro, Mass., a Corporation of Rhode Island. Filed Aug. 17, 1923. Serial No. 657,835. 16 Claims. (Cl. 24—194.)



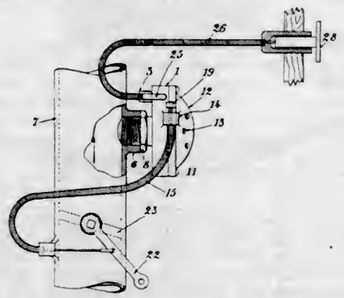
1. In a spring buckle, the combination of a back plate having an outwardly flanged end provided with a transverse slot therein, an outer shell fixedly engageable therewith, a guide plate pivotally mounted on said back plate having longitudinal guideways therein, a locking plate slidably longitudinally mounted in said guideways having a toothed lip to lock the free end of the belt against said outer shell, a bail plate longitudinally slidable on said back plate having one end thereof outwardly flanged and the other end thereof projecting through said transverse slot in said flanged end of the back plate, and terminating in a bail for permanent attachment thereto of a belt end, and spring means extending between the outwardly flanged end of the bail plate and the outwardly flanged end of the back plate.

1,469,860. WORK-HOLDING STAND. CURRY ORA WALPER, Detroit, Mich., assignor of one-third to Frank A. Maslen and one-third to Bernard E. Clark, both of Detroit, Mich. Filed July 24, 1922. Serial No. 576,967. 1 Claim. (Cl. 144—288.)



A work supporting stand comprising a table portion having a slot extending longitudinally thereof, a clamping bar pivoted at one of its ends adjacent to one end of said table portion, the pivotal attachment being such that the clamping bar may be swung into position substantially parallel with the surface of the table, said clamping bar having a slot longitudinally thereof adapted to be brought into registration with the slot in the table portion by the pivotal movement of the bar, and guiding means adapted to engage said clamping bar near its free end to hold it in position with the slots in registration, the pivotal movement of said bar being adapted to carry it away from the surface of said table portion, and said table portion when said clamping bar has been swung into inoperative position being left free and unobstructed for the placing of work thereupon, the upper surface of the table portion being provided with recesses and pivoted arms mounted within said recesses with their upper surfaces substantially flush with the surface of the table whereby the arms may be swung from a closed position within the table portion to a position substantially at right angles thereto with their upper surfaces forming a continuation of the unobstructed upper surface of the table portion.

1,469,861. FUEL ECONOMIZER FOR EXPLOSION ENGINES. RENÉ CHARLES WATTELLIER, Samois-sur-Seine, France. Filed June 8, 1921. Serial No. 475,931. 2 Claims. (Cl. 123—119.)



1. A fuel economizer for explosion engines comprising a casing, an eccentrical tubular projection on said casing adapted to be secured to the intake pipe of the engine and connecting the capacity of the casing to the said intake pipe, means for admitting outer air into said casing, a rotatable disc plate in the casing provided with a port registering with the inlet of said tubular projection, a flexible transmission for operatively connecting said disc

plate to a member controlling the throttle of the engine and means for producing a bend in said flexible transmission and thereby displace angularly the disc plate independently of the action of the throttle valve actuating member.

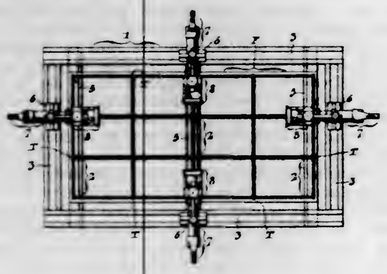
1,469,862. CELLULOSE-ETHER SOLVENT AND COMPOSITION. WILLIAM R. WEBB, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 5, 1921. Serial No. 458,749. 3 Claims. (Cl. 106—40.)

1. A viscous flowable film-forming composition, comprising an ether of cellulose dissolved in a mixture of ethyl benzoate and a lower monohydroxy aliphatic alcohol.

1,469,863. CELLULOSE-ETHER SOLVENT AND COMPOSITION. WILLIAM R. WEBB, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 5, 1921. Serial No. 458,750. 5 Claims. (Cl. 106—40.)

4. A composition of matter comprising a cellulose ether and benzyl acetate.

1,469,864. RIVETING APPARATUS. JOHN HOWARD WAY, Philadelphia, Pa. Filed Feb. 17, 1921. Serial No. 445,647. 18 Claims. (Cl. 78—46.)



1. An apparatus of the character described including in combination, a table; a penumatic riveting tool; and an associated clamping device, said device being hinged to the pneumatic tool so as to be capable of being swung clear of the work as the latter is placed upon or removed from the table.

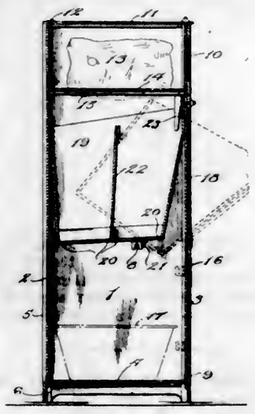
1,469,865. BELT. JOSEPH WILLEN, Chicago, Ill. Filed Sept. 20, 1920. Serial No. 411,432. 1 Claim. (Cl. 241—3.)



An apparel belt, comprising a body portion or strap having one end folded upon itself for a substantial length, a buckle secured to the outer layer of said folded portion intermediate the ends thereof, said folded portion being extended beyond the tongue of said buckle, and keepers secured to said folded portion on each side of said buckle.

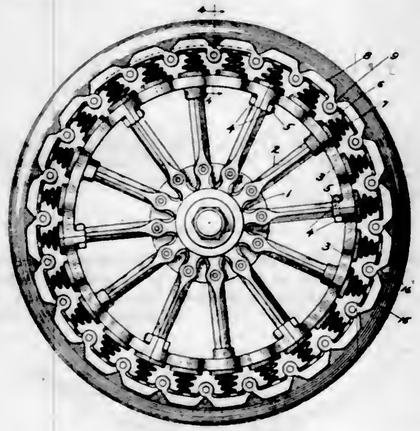
1,469,866. BOTTLE COOLER. JESSE W. WOODWARD and FRANK E. LEWIS, Shreveport, La. Filed Nov. 2, 1922. Serial No. 596,617. 4 Claims. (Cl. 62—46.)

1. An apparatus for the purpose set forth comprising a casing, a downwardly and outwardly swinging door in the front side of the casing, a container mounted adjacent the door within the casing independent of the door for



rocking movement, and means for connecting the container with the door whereby the opening of the door will rock the container through the front of the casing.

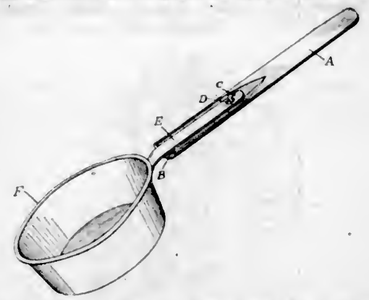
1,469,867. WHEEL. CARL YOUNG, Chicago, Ill. Filed Oct. 18, 1917. Serial No. 197,329. 3 Claims. (Cl. 152—8.)



1. A wheel comprising a hub, spokes connected therewith, a rim connected with said spokes, elongated guiding openings in said rim, a flexible metal perimeter exterior to said rim, said flexible metal perimeter made up of a series of links, pivots connecting said links together, a spiral coiled spring interposed between each link and the rim of the wheel, and guides connected with certain of said links and projecting into said elongated guiding openings in said rim.

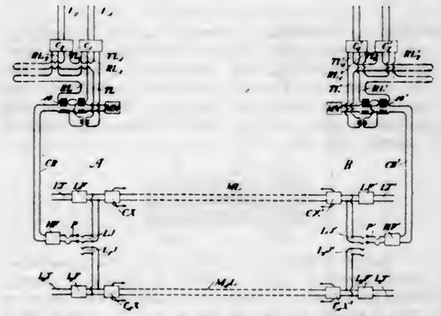
1,469,868. DETACHABLE LIFTER. EDMUND L. ZUKOSKI, St. Louis, Mo. Filed Aug. 1, 1921. Serial No. 488,880. 4 Claims. (Cl. 294—27.)

1. The combination with a utensil having a handle with a hole near its outer end, of a detachable lifter consisting of an elongated body comprising a grip portion at one end and an engaging portion at the other end, means intermediate said portions adapted to pass through said hole and engage the upper surface of said



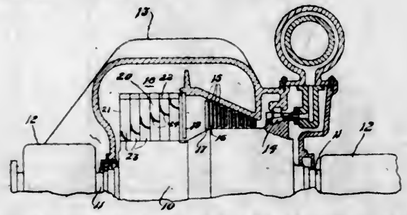
handle, and means whereby said engaging portion of said lifter is maintained in alined relation beneath said handle.

1,469,869. CARRIER-TRANSMISSION-ROUTING ARRANGEMENT. HERMAN A. AFFEL, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 24, 1919. Serial No. 313,101. 8 Claims. (Cl. 179—15.)



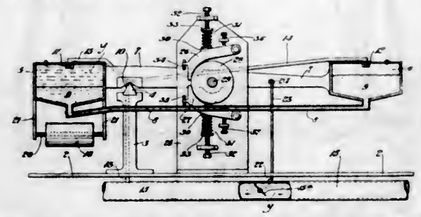
1. In a signaling system, a plurality of transmission lines adapted to transmit low frequency signaling currents and high frequency oscillations of the order employed for carrier transmission, terminal carrier apparatus including means for translating a plurality of independent low frequency signaling currents into high frequency carrier oscillations of different frequencies, and switching means for associating said terminal carrier apparatus with any one of said transmission lines so that carrier oscillations may be transmitted thereover.

1,469,870. TURBINE BLADING. ROBERT C. ALLEN, Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 18, 1922. Serial No. 554,704. 6 Claims. (Cl. 253—77.)



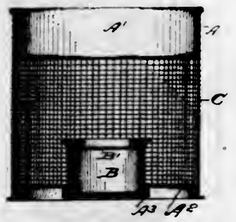
1. In a turbine, a row of blades adapted to receive motive fluid at one side and to discharge it peripherally and a plurality of curved deflector members arranged successively lower from the outer portion of the inner side toward the inner portion of the outer side of each blade in order to change the direction of flow of the motive fluid passing between the blades from an axial toward a radial direction.

1,469,871. PRESSURE REGULATOR. JOSEPH WALLACE ALLEN, Clairton, Pa. Filed Nov. 20, 1922. Serial No. 602,199. 7 Claims. (Cl. 50—3.)



1. An automatic pressure regulator comprising a pair of spaced liquid containers, a rigid connecting rod secured to said containers, a conduit connecting the lower ends of said containers, a supporting member having a pivot on its upper end, said connecting rod being mounted on said pivot at a point adjacent one of said containers and to the one side of the center of said rod, means for establishing communication between the fluid body to be controlled and one of said containers whereby variation in the pressure of said body will be communicated to said container and cause liquid from one of said containers to flow into the other of said containers, thereby causing said containers to rock about said pivot, means for limiting the movement of said containers and means operated by said containers for regulating the pressure to said fluid body.

1,469,872. FUMIGATOR. CAMERON CLINTON ANDERSON and FREDERICK ADAMS, Windsor, Ontario, Canada. Filed Feb. 4, 1922. Serial No. 534,037. 1 Claim. (Cl. 167—3.)

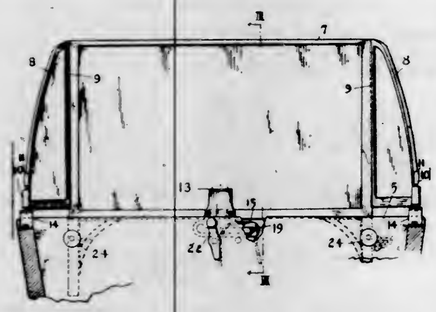


A device of the character described comprising a foraminous cylindrical body, a disinfectant container fitting the upper end of the body and extending into the same and supported thereby, a heater of less diameter than the body, and a tapered cover tightly fitting the container and having a marginal flange, and removable and reversible to form a base for the cylindrical body and to extend its tapered portion into the same, said cover having a central depression of a size to receive the heater, and centering the same.

1,469,873. WINDSHIELD. ALBERT C. BARLEY, Kalamazoo, Mich. Filed June 14, 1919. Serial No. 304,197. 1 Claim. (Cl. 296—85.)

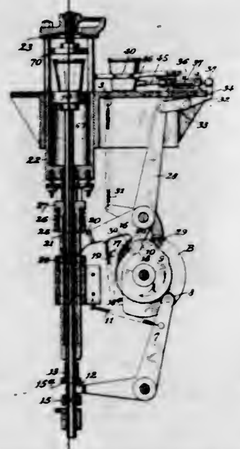
In a vehicle wind-shield, the combination with a panel movable into and out of operative position, of an endless driving element, means for operating the latter, a pin carried by the endless driving element, a plate carried by the central panel and provided with a slot confined to a single plane and within which the pin operates, the

slot being so proportioned in length as to have one end thereof engaged by the pin when the latter has passed in one direction over the peak of the endless driving element, to thereby automatically lock the central panel in raised position under its own uninfluenced weight and



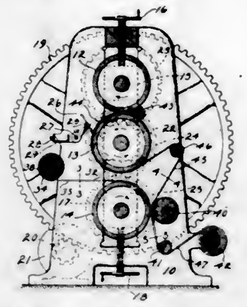
within its plane of movement, guide means confining the panel to a single plane of movement, side wings hinged to the panel and capable of folding in adjacent to the panel, securing means carried by the wings, and securing means carried by the said plate and engageable by the securing means carried by the wings.

1,469,874. VACUUMIZING MACHINE. GEORGE A. BEARDSLEY, East Orange, and DANIEL WARDELL, Newark, N. J., assignors to Hazel-Atlas Glass Company, Wheeling, W. Va., a Corporation of West Virginia. Filed June 20, 1922. Serial No. 569,695. 8 Claims. (Cl. 226—82.)



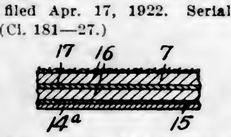
1. In an automatic vacuum sealing machine for receptacles, a feeding table, a cylinder reciprocably mounted and arranged to be projected above said table to form a portion of a vacuum chamber and to be withdrawn below the level of said table, a reciprocable feeding carriage on said table adapted to feed receptacles into the path of movement of said cylinder and to eject them therefrom, valve mechanism controlling the exhaustion of air from and the admission of air into said vacuum chamber, and driving means having associated therewith a plurality of cams, each of which actuates, through connecting members, a feeding carriage, a cylinder, or the valve mechanism.

1,469,875. CALENDERING RUBBER. LEANDER PHILIP BEAUREGARD, Chicopee, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Aug. 11, 1921. Serial No. 491,439. 4 Claims. (Cl. 154—2.)



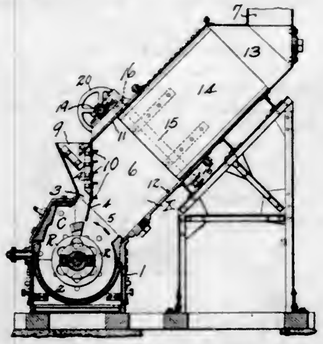
1. A method of preparing two ply rubber stock consisting in forming a rubber strip, rolling up the strip on a liner, forming between two rolls of a calender a second rubber strip, directing the first rubber strip together with its liner into rolling contact with the second strip, and preserving the alignment of the two strips by controlling the liner.

1,469,876. AMPLIFIER. ANTONIO BENOIT, JOSEPH LUCIEN MATHIEU, and HENRI HORMISDAS DUCHESNE, Montreal, Quebec, Canada, assignors to Benoit & Mathieu, Montreal, Canada. Original application filed Apr. 22, 1921, Serial No. 463,715. Divided and this application filed Apr. 17, 1922. Serial No. 554,126. 3 Claims. (Cl. 181—27.)



1. A sound amplifier for talking machines, comprising an inner layer of paper; a pair of layers of fibrous material superposed thereon; an intermediate layer of material between the fibrous layers; and a binding layer of fabric encasing the outer fibrous layer; the various layers being secured together by adhesive material.

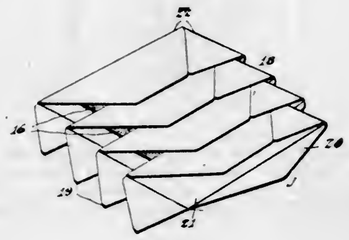
1,469,877. DISINTEGRATOR. JOSEPH KLEE BLUM, Greenburg, N. Y., assignor to K.-B. Pulverizer Company, New York, N. Y., a Corporation of New York. Filed Aug. 20, 1921. Serial No. 493,837. 6 Claims. (Cl. 83—11.)



1. In a pulverizer, the disintegrating chamber with a rotor therein, and having a feed-opening and a discharge outlet for pulverulent material, a discharge conduit for

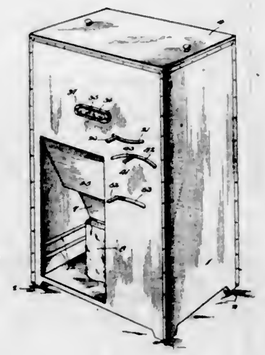
the fines and an enlarged separating chamber interposed between said outlet and said conduit and having at its receiving end a partition separating the inlet of the disintegrating chamber from its outlet and provided at one side with rebound abutments.

1,469,878. MANIFOLDING ENVELOPES. JOSEPH H. BONNEVILLE, Stamford, Conn., and HAROLD S. BARNES, Yonkers, N. Y. Filed Dec. 5, 1921. Serial No. 520,086. 2 Claims. (Cl. 282—25.)



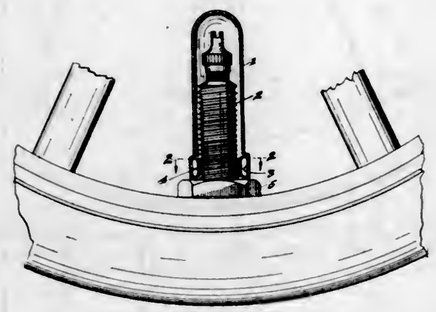
1. A plurality of enclosing devices each having a wall provided with an outer surface to receive an inscription, at least one of said walls carrying upon the opposite inner surface a manifolding substance, the enclosing devices being formed to permit them to be assembled in a series with the inscription-receiving walls in registration, whereby an inscription applied to the outer enclosing device is reproduced upon others of the series.

1,469,879. DISPENSING APPARATUS. WISTER P. BOTT, Bernice, La. Filed Mar. 21, 1922. Serial No. 545,413. 6 Claims. (Cl. 221—112.)



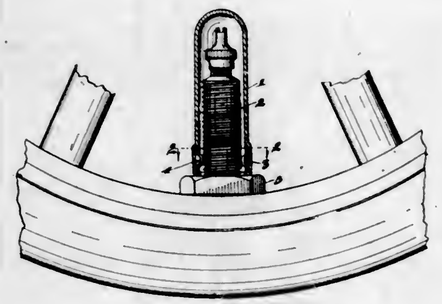
1. A dispensing apparatus comprising a storage compartment, a delivery compartment below the storage compartment, a measuring spout interposed between the storage compartment and the delivery compartment, slidable cut-offs mounted in the upper and lower ends of the spout, and a plunger fitting closely between the said cut-offs and movable across the spout, the plunger being provided at its upper edge with a resilient cover plate projecting outwardly therefrom and bearing closely against the under side of the upper cut-off.

1,469,880. DUST-CAP SPRING. JUNIUS A. BOWDEN, Los Angeles, Calif., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 8, 1920, Serial No. 415,655. Renewed Mar. 6, 1923. 6 Claims. (Cl. 152—12.)



6. A dust cap provided with a spring band for engaging a valve stem, said band formed with a series of projections upon each side, the projections of one side arranged alternately of the projections on the opposite side, one of said series adapted to slidably engage the said stem longitudinally and the other series adapted to engage and move circumferentially upon the inner wall of the cap.

1,469,881. SPRING MEANS FOR DUST CAPS. JUNIUS A. BOWDEN, Los Angeles, Calif., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 8, 1920, Serial No. 415,656. Renewed Mar. 6, 1923. 5 Claims. (Cl. 152—12.)

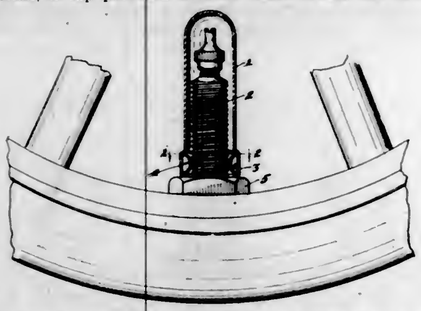


1. In a quick detachable dust cap for a tire valve stem, spring means in the form of a band, said band formed with outwardly projecting flanges and numerous ribs formed centrally of said flanges, said spring adapted to be inserted in a dust cap, and the ribs adapted to engage a tire valve stem.

1,469,882. SPRING INSERT FOR DUST CAPS. JUNIUS A. BOWDEN, Los Angeles, Calif., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 8, 1920, Serial No. 415,657. Renewed Mar. 6, 1923. 4 Claims. (Cl. 152—12.)

1. In dust caps for tire valve stems, a spring insert provided with a central body portion and an outwardly

flaring branch member formed on each side of the body portion, a cap provided with an inner recess, the outer



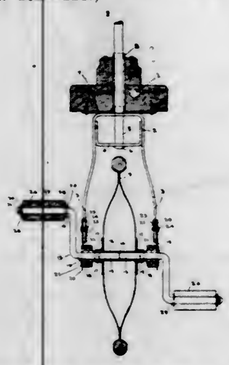
ends of the branch members adapted to engage said recess and said body portion adapted to engage a tire valve stem.

1,469,883. BAIT-CASTING DEVICE. JOHN D. BRAKERS, St. Louis Park, Minn., assignor of fifty-one one-hundredths to George B. J. Massey, Minneapolis, Minn. Filed Sept. 29, 1922. Serial No. 591,395. 11 Claims. (Cl. 43—19.)



1. A bait projecting device having in combination, a supporting member, a traveling carrier for loosely holding the bait, and means including a motor driven drum for moving said carrier a certain distance at high speed to project the bait from the same.

1,469,884. VELOCIPEDE DRIVING PART. JULIEN A. BRIED, Oakland, Calif., assignor to H. C. White Company, North Bennington, Vt., a Corporation of Vermont. Filed May 17, 1922. Serial No. 561,754. 10 Claims. (Cl. 208—113.)



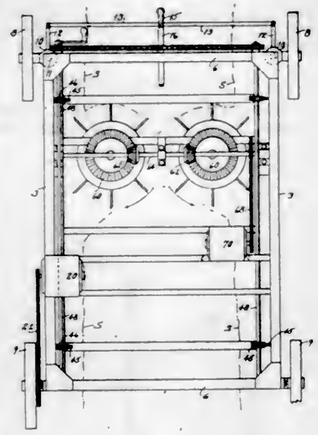
1. In a velocipede, a driving wheel of the disk type comprising two centrally spaced sheet metal side disks secured together near the outer edges, two outwardly flanged hubs secured one to each disk, a spacing tube centrally disposed within the wheel, two driving crank shafts extending respectively into said tube from opposite ends thereof, and means passing through the flanges of said hubs and said crank shafts for securing the shafts in place.

1,469,885. FISHING-LINE FLOAT. CHRISTIAN F. BRITZWEIS, St. Louis, Mo., assignor of one-half to Charles H. Voss, St. Louis, Mo. Filed Sept. 26, 1921. Serial No. 503,121. 1 Claim. (Cl. 43—49.)



In combination with a stem having an air inlet passage, and an outlet passage, a valve for said inlet passage, a closure cap for said outlet passage and an elastic inflatable-deflatable float carried by said stem.

1,469,886. SAND-MIXING DEVICE. CHARLES W. BRYSON, Cleveland, Ohio, assignor to Howard L. Wadsworth, Cleveland, Ohio. Filed May 17, 1919, Serial No. 297,887. Renewed Dec. 23, 1920. Serial No. 432,890. 6 Claims. (Cl. 259—144.)

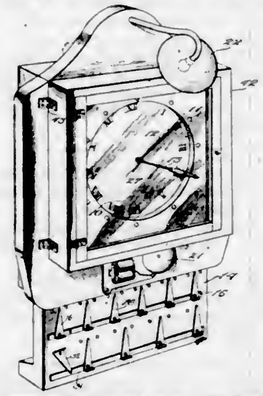


1. In a sand mixing machine, the combination of a vehicle adapted to move over a pile of sand, intermeshing paddle wheels carried by the vehicle, the blades of said paddle wheels having substantially flat impacting surfaces and means for rotating said paddle wheels as they are advanced through the sand, whereby the latter is thoroughly kneaded and mixed and left in substantially the same character of pile as before the operation.

1,469,887. ELECTRIC ALARM CLOCK. EARMON N. BURLEIGH, Pittsburgh, Pa., assignor of one-half to Henry G. Frazier, Carnegie, Pa. Filed Nov. 18, 1922. Serial No. 601,847. 5 Claims. (Cl. 161—2.)

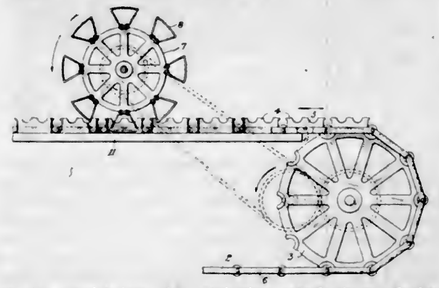
1. In a signaling system of the class described a signal, a clock having a contact point for each of its hours, the hour hand forming a switch with each of said contacts, a conductor connecting said hour hand

with one pole of an electric source and running through said signal, and means for selectively connecting the other pole of said electric source with said contact



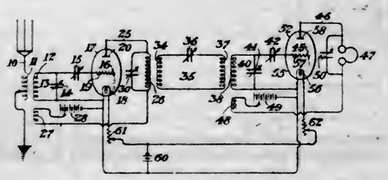
points, said means including a set of levers, each one of said levers being adapted to serve two adjacent contacts.

1,469,888. SAND EJECTOR FOR FLASKS. WALTER E. BURGESS, Rutherford, N. J., assignor to The Central Foundry Company, New York, N. Y., a Corporation of Maine. Filed Nov. 19, 1921. Serial No. 516,284. 5 Claims. (Cl. 22—20.)



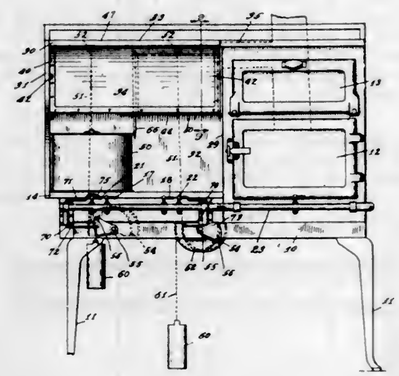
1. In mechanism for stripping sand from flasks, which comprises a rotatable wheel having a plurality of shoes arranged around the periphery thereof, a conveyor operating in a horizontal plane beneath said wheel, a plurality of flasks carried by said conveyor, and means for bringing said shoes into register with successive flasks to expel the sand therefrom.

1,469,889. RECEIVING SYSTEM FOR RADIANT ENERGY. EMORY LEON CHAFFEE, Belmont, Mass., assignor to John Hays Hammond, Jr., Gloucester, Mass. Filed Apr. 25, 1918, Serial No. 230,723. Renewed Feb. 11, 1922. Serial No. 535,947. 8 Claims. (Cl. 250—20.)



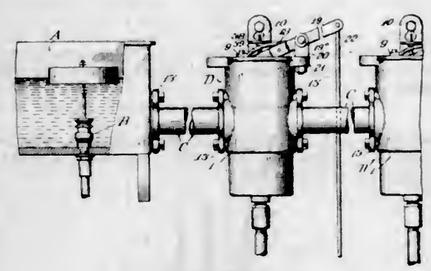
1. In a receiving system for radiant energy, the combination with an initial receiving circuit responsive to a wave of radiant energy having a predetermined frequency and modulated at a second frequency of means controlled by said receiving means and tuned to respond to said predetermined secondary frequency, local means including an autodyne arranged to produce oscillations having a frequency different from said secondary frequency, and to cooperate with said second mentioned means to produce electrical beats, and a receiving device arranged to be controlled as a result of the action of said electrical beats.

1,469,890. COOKING STOVE. JOHN E. CHAMBERS, Shelbyville, Ind. Filed Aug. 15, 1921. Serial No. 492,253. 18 Claims. (Cl. 126—39.)



1. In a cooking range, the combination of a heating element, an open-bottom canopy thereover, said canopy having a depending front the bottom of which is higher than said heating element, and an open-bottom heat-insulating hood vertically movable over said heating element beneath said canopy.

1,469,891. FLUSHING APPARATUS. ROBERT A. BROOKS, Chicago, Ill. Filed Jan. 8, 1920. Serial No. 350,200. 20 Claims. (Cl. 4—5.)



1. In apparatus for flushing water closets including a master tank and a supply pipe, a siphonic flushing device having an open-topped chamber in free communication above its bottom with said supply pipe, the portion of such chamber below said supply pipe constituting a forcing chamber, a siphonic passage communicating with the bottom of said forcing chamber and having at its top a normally open passage to the atmosphere, a valve governing said passage, a piston in said forcing chamber, and actuating means operatively connected with said valve and piston and arranged to effect closing of the valve and operate said piston.

1,469,892. SKIVING MACHINE. FRANK W. CHRISTY, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 24, 1920. Serial No. 383,772. 18 Claims. (Cl. 69—16.)



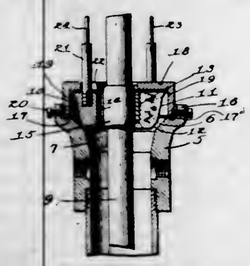
1. In a skiving machine, a knife, two members for engaging a blank of sheet material on both sides and presenting it to the knife, one of the members having a notch so located that the portion of the blank fed through it will be severed by the knife, and means including a projection on the other member and an edge gage for guiding and forcing the edge of the blank into the notch.

1,469,893. MEANS FOR SELECTION OF ARTIFICIAL TEETH. GEORGE WOOD CLAPP, New Rochelle, N. Y., assignor to The Dentists' Supply Company, a Corporation of New York. Filed Aug. 20, 1919. Serial No. 318,638. 18 Claims. (Cl. 35—16.)



1. In a device of the character stated, means for determining the facial form of a patient comprising a plurality of differently shaped outlines through which the face may be successively viewed, provided with means automatically indicated thereby for determining the proper form of artificial teeth required for the patient.

1,469,894. CASING HEAD. CLEM S. CLARKE, Shreveport, La. Filed Nov. 30, 1921. Serial No. 518,911. 3 Claims. (Cl. 24—263.)

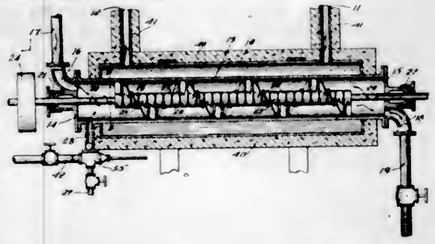


1. A casing head having the upper end of its bore flared outwardly and also having its bore flared to a less degree from a point below the flared upper end, a plurality of gripping elements arranged in the casing head and adapted to engage a string of well tubing passing through the casing head, the outer faces of the gripping elements being beveled at the same angle as the second mentioned flared part of the bore while their lower ends are beveled at the same angle as the flared upper end whereupon contact of the lower ends of the gripping members with the flared upper end of the bore the gripping elements will be caused to move laterally away from each other to permit the tubing passing upwardly.

1,469,895. METHOD OF PREVENTING TRANSMIGRATION OF VULCANIZING AGENT IN RUBBER. JOHN PARKS COE, Hastings-on-Hudson, N. Y., assignor to Morgan & Wright, a Corporation of Michigan. Filed Oct. 4, 1922. Serial No. 592,398. 9 Claims. (Cl. 18—53.)

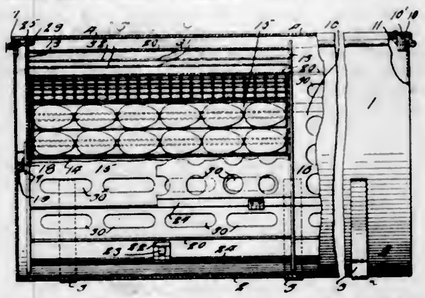
1. The method of preventing the transmigration of a vulcanizing agent between juxtaposed rubber stocks, which consists in interposing between them a medium impermeable to said vulcanizing agent.

1,469,896. APPARATUS FOR TREATING EDIBLE FATS. JOHN T. COX, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Nov. 26, 1919. Serial No. 340,701. 3 Claims. (Cl. 257—86.)



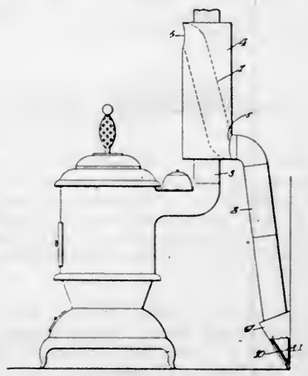
2. An apparatus for converting liquid fat to a semi-solid and incorporating a non-toxic inert gas therein, comprising a stationary cylinder closed to the external atmosphere and having inlet and outlet ports at its opposite ends for receiving and discharging such fat, means for exteriorly refrigerating such fat, a central rotary shaft journaled in said cylinder, a plurality of picker blades on said shaft adapted to scrape solidified fat from the interior surface of said cylinder and incorporate said gas in said fat, and means for introducing said gas into said cylinder.

1,469,897. APPARATUS FOR STORING EGGS. SAMUEL CLARK CROSS, Washington, D. C. Filed Apr. 2, 1921. Serial No. 458,066. 7 Claims. (Cl. 99—2.)



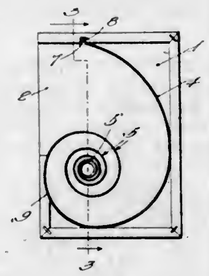
1. An apparatus for storing eggs comprising a stationary outer casing, a main revoluble egg container mounted within the outer casing, means to hold the eggs stationary within said container as it revolves, and auxiliary containers mounted upon the main container and revoluble with the main container.

1,469,898. HEATING APPARATUS. GEORGE E. DIX, Durand, Ill. Filed Jan. 3, 1920. Serial No. 349,205. 1 Claim. (Cl. 257—167.)



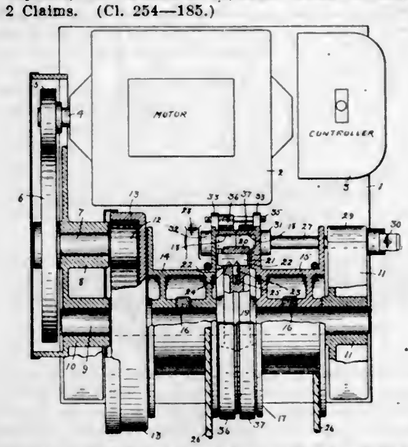
Apparatus for heating a room, comprising in combination with a stove in the room having an enlarged flue outlet, an air intake hood adapted to be supported close to the floor and having a back wall and a front wall which diverge upwardly and side walls which converge upwardly, the front wall having an air inlet therethrough, and a pipe connected to the upper end of said air intake hood and passing lengthwise through said enlarged flue outlet and having an air outlet end opening into the room.

1,469,899. SOUND AMPLIFIER. LLOYD HAMILTON DONNELL, Ann Arbor, Mich. Filed June 19, 1922. Serial No. 569,390. 2 Claims. (Cl. 181—27.)



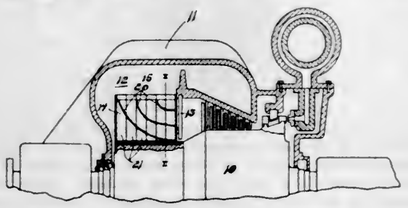
1. A sound amplifier for sound reproducing apparatuses comprising a flat strip of material coiled to form a convolute passage between its coils, the innermost coil being comparatively small and the surrounding coils gradually increasing in size toward the outer coil to render the passage of gradually increasing area from its inner toward its outer end, and a pair of spaced vertical plates engaging the edges of the coils and closing the passage at opposite sides to compel the sound waves to travel from end to end, one of said plates having an opening formed therein opposite one end of the innermost coil to permit the reproduced waves to enter the passage for amplification.

1,469,900. MECHANICAL HOIST. THOMAS GALLOWAY, Superior, Wis. Filed Feb. 23, 1923. Serial No. 620,581. 2 Claims. (Cl. 254—185.)



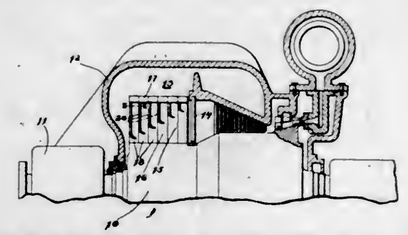
1. In combination, a rotatable shaft, a radially disposed driving head rigidly fixed to the shaft, winding drums loosely mounted upon the shaft, one upon either side of the driving head, and a reciprocable dog mounted in the free end of the driving head remote from the shaft for alternate engagement with the drums to rotate them in opposite directions.

1,469,901. TURBINE BLADING. CHRISTIAN GILSON, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 18, 1922. Serial No. 554,988. 13 Claims. (Cl. 253—77.)



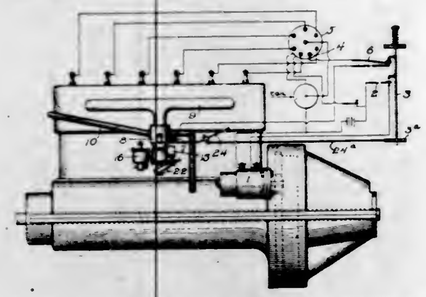
1. In an elastic-fluid turbine, a row of relatively wide blades adapted to receive elastic fluid at one side and to discharge it at the tips, each of said wide blades being made up of a plurality of sections.

1,469,902. BLADING. CHRISTIAN GILSON, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 22, 1922. Serial No. 583,593. 12 Claims. (Cl. 253—77.)



1 In a turbine, a row of blades, each of which comprises a plurality of sections, and bracing means secured along the rear edges of the sections.

1,469,903. METHOD AND MEANS FOR STARTING COMBUSTION ENGINES. JOHN GOOD, Brooklyn, N. Y., assignor to Good Inventions Co., New York, N. Y., a Corporation of New York. Filed July 29, 1919. Serial No. 314,061. 17 Claims. (Cl. 123—122.)



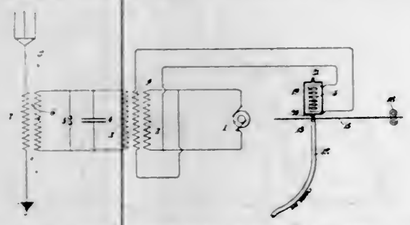
1. The method of starting a combustion engine, which consists in causing a spray mixture of liquid fuel and air to flow to the engine at a velocity less than the rate of flame travel in said mixture, igniting said mixture, limiting the combustion thereof to produce a hot, engine-operating medium, operating the engine on said medium and then operating the engine on an unignited mixture of fuel and air.

1,469,904. RESILIENT SUPPORT FOR TIRES. SIEGFRIED GOODMAN, Livingston Manor, N. Y. Filed Feb. 1, 1923. Serial No. 616,229. 4 Claims. (Cl. 152—5.)



4. A tire filler comprising a core composed of a plurality of curved strips bent longitudinally to form an air chamber, a resilient binding inclosing the core to retain it in proper position, a core embracing member adapted to overlie the core and its binding completely encircling the same, and a resilient binding inclosing the core embracing member to retain the same in place permitting the whole to give and to rebound in action.

1,469,905. CIRCUIT-CONTROLLING MEANS. RAY EDWIN HALL, Chicago, Ill., assignor to Hall Research Corporation, a Corporation of Delaware. Filed Aug. 13, 1919, Serial No. 317,118. Renewed Feb. 24, 1923. 6 Claims. (Cl. 250—19.)



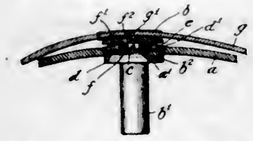
1. In a wireless signalling apparatus, a transmitting system, including a high frequency oscillatory circuit in combination with means for supplying alternating current to said circuit, a transformer between said circuits, a circuit in shunt across the transformer, a circuit including a heat-sensitive resistance adapted to be heated to high temperature by current flowing in said shunt, and means for applying a cooling medium to said resistance and removing it therefrom according as maximum or minimum current is desired in said secondary circuit.

1,469,906. TUFTING NEEDLE. AUGIE L. HANSEN, Evanston, Ill. Filed Aug. 26, 1921. Serial No. 495,646. 3 Claims. (Cl. 112—80.)



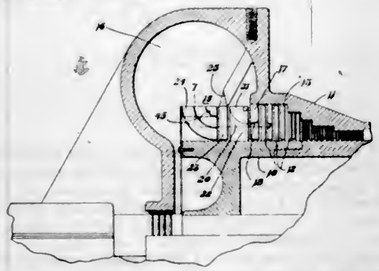
1. A needle of the character described, comprising two telescopic tubular members, the internal member having a needle-like end portion adapted to project from one end of said external member, and a locking collar having screw threaded connection with the opposite end portion of said external member, and operative to secure said members together.

1,469,907. PLAYING BALL. HENRY RIDGEWAY HART, Montclair, N. J. Filed Jan. 11, 1922. Serial No. 528,433. 2 Claims. (Cl. 46—4.)



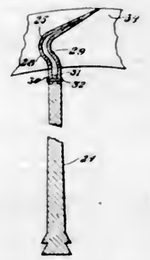
1. In a playing ball, a bladder having an opening therein, a valve tube having a threaded portion extending through the opening and exposing a rimmed flange on the tube adapted to engage the inner side of the bladder adjacent the opening, a flexible rimmed washer through which the said threaded portion of the valve tube extends lying over the outer side of the bladder adjacent the opening, and a clamping nut threaded on the tube and forcing the flexible rimmed washer against the bladder to squeeze the latter against the flange and form an air-tight union.

1,469,908. ELASTIC-FLUID TURBINE. HERBERT T. HEER, Merion, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 26, 1921. Serial No. 495,545. 34 Claims. (Cl. 253—69.)



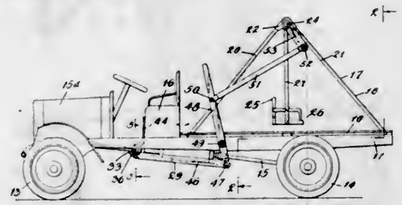
1. An elastic-fluid turbine comprising an axial-flow portion followed by a peripheral-discharge portion comprising a plurality of rows of energy-abstracting elements having continuous surfaces and having lateral inlet edges for receiving elastic fluid flowing in an axial direction and having peripheral discharge edges.

1,469,909. TURBINE BLADING. HERBERT T. HEER, Philadelphia, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 31, 1922. Serial No. 564,890. 4 Claims. (Cl. 253—77.)



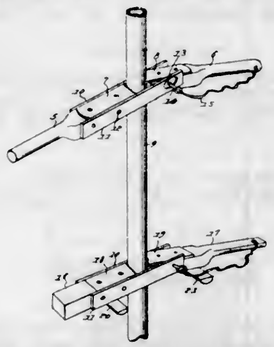
1. In a steam turbine rotor blade, the combination with a plane body portion, of a spoon-outline tip portion thereupon, said tip portion being hollow in construction and embracing the tip of said body portion.

1,469,910. TRAVELING SWING. ST. CHARLES JACOBS, Coney Island, Brooklyn, N. Y. Filed Mar. 23, 1920. Serial No. 368,085. 1 Claim. (Cl. 180—1.)



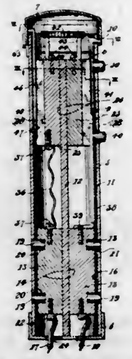
The combination with a swing provided on a motor driven vehicle, a shaft, adapted to be operated by the vehicle drive shaft, a crank on the shaft, a lever pivoted on the body of a vehicle, means connecting the lever and crank whereby when the crank is operated the lever is oscillated and means connecting the lever to the swing whereby the same may be operated.

1,469,911. PIPE-LIFTING IMPLEMENT. JACOB AUMILLER, Mifflinburg, Pa. Filed Dec. 20, 1922. Serial No. 608,061. 1 Claim. (Cl. 254—29.)



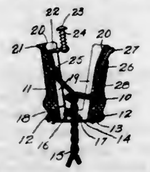
In a pipe lifting element, a handle bar having a jaw, cheek pieces secured to the said handle bar and projecting from the inner end thereof beyond the jaw and adapted to embrace a pipe, a handle pivotally mounted on the said cheek pieces and extending in a direction opposite to the handle bar, a jaw on the handle coacting with the first mentioned jaw to hold a pipe, means for pivotally mounting the second mentioned jaw to the said cheek pieces, a coacting apparatus adapted to clamp a pipe comprising a rigid body having a cross arm adapted to support the body, cheek pieces extending beyond the inner ends of the body, a jaw attached to the said body and lying between the cheek pieces, an oscillatable element mounted between the outer ends of the cheek pieces and having a jaw coacting with the jaw of the body, and a cross arm having a rounded surface constituting a rocker on which the oscillatable element is supported when in operative position, substantially as described.

1,469,912. CIGAR OR CIGARETTE LIGHTER. ANDREW BARNA, Jr., Chicago, Ill. Filed Apr. 14, 1922. Serial No. 552,466. 4 Claims. (Cl. 219—32.)



1. A cigar or cigarette lighter comprising a cylindrical casing, a longitudinal central partition strip of insulating material extending substantially from end to end of said casing, a pair of substantially semi-cylindrical blocks disposed at opposite sides of the partition at the inner end of the casing and formed of conducting material for electricity, means to attach conductor wires to the outer ends of said block sections, a further pair of block sections within the casing at opposite sides of the partition strip and spaced from the first named block sections, a resistance adapted to be rendered incandescent by an electric circuit having terminals fixed to the last named block sections outwardly of the latter, means electrically connecting one of the first named block sections with one of the last named block sections at the same side of the partition, and a resilient switch member attached to the other of the first named block sections and manually movable to electrically connect the latter block section with the other of the second named block sections whereby a circuit is established through the resistance.

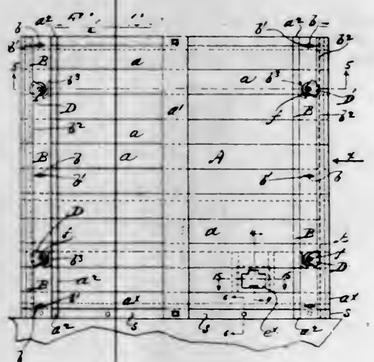
1,469,913. PUSH PLUG FOR ELECTRIC SOCKETS. JASPER BLACKBURN, St. Louis, Mo. Filed Dec. 20, 1920. Serial No. 431,858. 2 Claims. (Cl. 173—360.)



1. A push plug for electric sockets comprising a spring plate, a plug member formed of insulating material secured to said plate, a bead helically arranged around

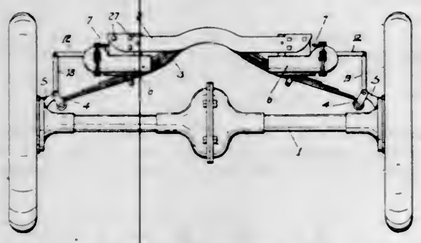
the upper outside edge thereof, a yielding contact point secured to the inner edge thereof, a second section of insulating material secured to said spring plate and spaced apart from the first mentioned section, a contact plate secured to the outer surface thereof and near the upper end, said contact plate projecting outwardly from the section and having its projecting edge helically shaped, and binding screws for securing electric conductors to the contact plate and yielding contact point.

1,469,914. AUXILIARY CLOSURE FOR DOORWAYS OF FREIGHT CARS. WALLACE W. BOOTH, Brooklyn, N. Y. Filed Sept. 26, 1922. Serial No. 590,621. 5 Claims. (Cl. 20—30.)



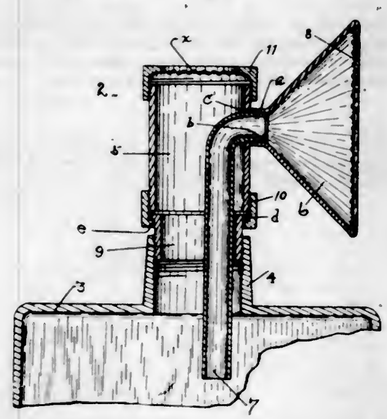
1. In combination with the side door-way of a freight car provided with auxiliary jamb flanges, an auxiliary closure panel therefor, comprising a series of longitudinal boards, transverse marginal cleats uniting the same, laterally slidable shouldered bolt plates mounted on said marginal cleats, and a plurality of duplex cams fulcrumed on the panel each duplex cam formed with an eccentric thrust member engageable with the shoulders of the respective plate to move said plate to and from a position overlying the respective jamb flange and with a wedge member to bind said plate and flange into close engagement for the purpose and substantially in the manner set forth.

1,469,915. SHOCK ABSORBER. DALLAS BOUDEMAN, Jr., Kalamazoo, Mich. Filed Jan. 24, 1921. Serial No. 439,500. 4 Claims. (Cl. 188—88.)



1. The combination in a structure of the class described comprising a running gear member, a body member and a supporting spring for said body member mounted on said running gear member, of a fluid cylinder mounted on said body member and having a transverse partition providing a cylinder at one end and a fluid chamber, said partition having a central cylinder discharge port therein, a piston, an outwardly opening valve for said discharge port provided with an inwardly projecting stem, a cross member disposed within said cylinder and constituting a support for said stem, a seating spring for said valve, means for adjusting the tension of said seating spring, a passage connecting said discharge chamber with said cylinder and open to the inner end of the cylinder beyond the stroke of the piston and having a port provided with a return check cylinder inlet valve connecting said passage with said cylinder at a point beyond the out stroke of the piston, a rock shaft disposed transversely of the cylinder at the inner end thereof, an arm on said rock shaft within the cylinder, a connecting rod connecting said piston to such arm, an actuating arm on said rock shaft, and a link connecting said actuating arm to said running gear member.

1,469,916. RADIATOR ATTACHMENT. ARCHER H. BURR, Omaha, Nebr. Filed Oct. 14, 1921. Serial No. 507,781. 1 Claim. (Cl. 259—25.)



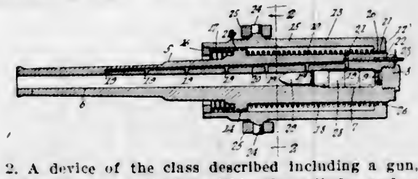
In a radiator attachment, an upright air draft pipe in communication with and extending above the top of the radiator, a conducting pipe for cool air having a horizontal, threaded part provided with a flange and traversing the side of the air draft pipe and having a vertical part within said air draft pipe extending within the radiator, a funnel provided with an interiorly threaded sleeve at its convergent end, said funnel being adapted to be disposed at the side of the air draft pipe with its sleeve engaging the threaded part of the conducting pipe, and being revoluble for moving the flange of the conducting pipe and said sleeve into engagement with the wall of the air draft pipe.

1,469,917. HAND RUBBER FOR WASHING OR CLEANING PURPOSES. MORLAND MICHOLL DESSAU, London, England. Filed Apr. 19, 1923. Serial No. 633,289. 3 Claims. (Cl. 15—122.)



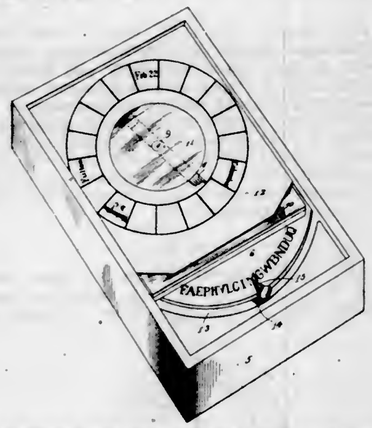
2. A bath device of the kind described comprising a sheet of interlaced strips of crêpe rubber folded upon itself to form a face having overlapping flaps, said face and flaps having their side edges united to form an envelope, the flaps being adapted to be flexed for the insertion of a detergent material in said envelope.

1,469,918. RECOIL-CONTROLLING DEVICE. ERNEST M. DE MAINE, Alexandria, Va. Filed Feb. 6, 1923. Serial No. 617,307. 5 Claims. (Cl. 89—43.)



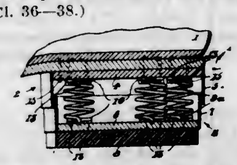
2. A device of the class described including a gun, a cylinder, a piston slidable within the cylinder and connected to the gun, said gun having a port leading through the barrel thereof into the cylinder to permit the flow of the gases from the gun into the cylinder to thereby check the recoil of the gun.

1,469,919. EDUCATIONAL AND AMUSEMENT DEVICE. JAMES DONNIANNI and JOSEPH DONNIANNI, Danbury, Conn. Filed Mar. 1, 1922. Serial No. 540,329. 1 Claim. (Cl. 35—12.)



In a device of the class described, the combination with a dial having an annular series of sections, each containing certain printed information, a magnetized pointer mounted centrally of the dial and pivoted to swing around and indicate one of the several sections of the dial, and operating means for the pointer, comprising a rotatable cross arm coaxially mounted with relation to the magnetized pointer, a gear coaxial and rotatable with said cross arm, a second gear meshing therewith, a radial arm upon said second gear adapted to be manually turned to rotate the cross arm and having an index pointer, and an arcuate index disposed in relation to said index pointer and having a series of reference characters positioned to be read in connection with and bearing specific relation to the sections of the dial.

1,469,920. SPRING HEEL. JOHN DUTCHAK, Hyde Park, Mass. Filed Sept. 21, 1922. Serial No. 589,576. 3 Claims. (Cl. 36—38.)



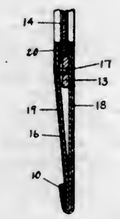
1. In a spring heel for shoes, upper and lower telescoping sections, coil spring interposed between the sections, anchoring plates associated with the ends of the springs, and each being of rectangular formation having a wedge-shaped slot therein for receiving the end of the spring, and means for securing the anchoring plates to the adjacent sections.

1,469,921. FOUNTAIN PEN. JOHN DUTCHAK, Hyde Park, Mass. Filed Sept. 21, 1922. Serial No. 589,577. 4 Claims. (Cl. 120—47.)



1. In a fountain pen of the type described, a barrel, a tubular plunger stem resiliently supported thereon, a tip removably carried by the inner end of the barrel, a pen point positioned in the tip, a tubular casing secured to the stem inclosing a portion of the barrel and slidable thereon, a sleeve carried by the outer end of the stem, and a tensioned plunger rod associated with the sleeve.

1,469,922. DOOR AND WALL PANEL FOR VEHICLES. JOHN A. FLECKENSTEIN, Kalamazoo, Mich., assignor to Limousine Body Company, Kalamazoo, Mich. Filed Feb. 2, 1922. Serial No. 533,566. 14 Claims. (Cl. 296—139.)

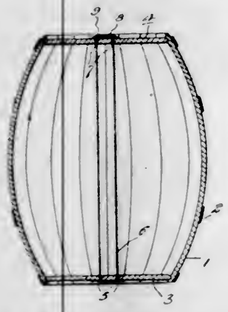


14. The combination of an outer panel member having an inwardly facing channel at at least one edge, an inner panel member secured upon the inner side of said outer panel member, and a covering for said inner panel member having an outer edge clamped within said channel by said inner panel member.

1,469,923. METHOD OF SEALING CLOSED CONTAINERS. BENJAMIN HELLER, Chicago, Ill. Filed Nov. 4, 1922. Serial No. 598,989. 1 Claim. (Cl. 217—114.)

In a method of sealing closed containers wherein a pair of spaced perforations are provided within the bottom of the container, inserting the opposite ends of a band of wire or tape through these perforations, extending the ends of the wire or tape upwardly within the container

and allowing the same to engage over the sides thereof, then filling the container and engaging the opposite ends of the wire or tape through a pair of spaced perforations



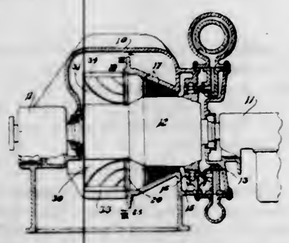
in the top of the container, applying the top to the container, tightening the wire or cord within the container, and then sealing the projecting ends of the cord upon the top thereof.

1,469,924. BELT-FASTENING DEVICE. ISIDOR M. JACOBS and WILLIAM CRAMER, St. Louis, Mo., assignors to Truck Tractor & Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 23, 1923. Serial No. 620,854. 1 Claim. (Cl. 1—50.)



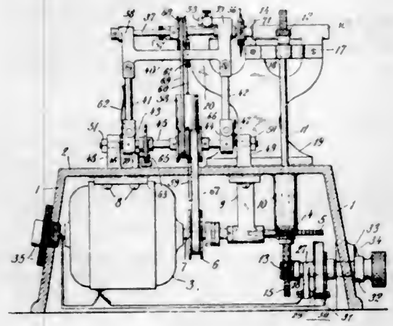
A belt fastening device comprising an anvil, staple holding means, upstanding marginal belt supporting members on said anvil, an intermediate belt supporting member disposed between said marginal belt supporting members, one of said marginal belt supporting members forming a shear for a belt supported by said supporting members, a pivoted knife cooperating with the shear member, and an upstanding abutment at the outer edge of said anvil adapted to support a belt so that the end of said belt will drop onto the anvil in position to receive the staples, and said abutment adapted to act as an aligning abutment during the cutting operation.

1,469,925. TURBINE. ALEXANDER T. KASLEY, Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 12, 1921. Serial No. 521,872. 25 Claims. (Cl. 253—77.)



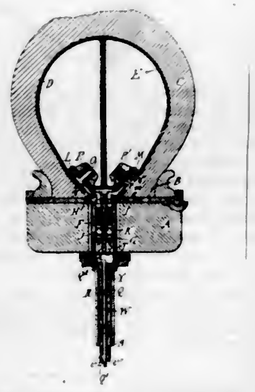
1. In an elastic-fluid turbine, a last row of moving blades having inner radial or plane portions and outer curved portions adapted to receive elastic fluid axially and to discharge it peripherally.

1,469,926. LENS-GROOVING MACHINE. GEORG KIRKEGAARD, Brooklyn, N. Y., assignor to Inter-State Optical Corporation, Brooklyn, N. Y., a Corporation of New York. Filed May 5, 1919. Serial No. 294,892. 8 Claims. (Cl. 51—106.)



1. In a machine for grooving lenses, a fixed support in which a lens may be rotatably mounted, a cutter for grooving the lens, means supporting said cutter, said means including a support pivoted to permit movement of the cutter radially of the lens, an arm, a shaft journaled therein to carry said cutter, and a plurality of standards, one end of each being pivotally connected to separated points on said arm and the other ends of each being pivotally connected to said support at separated points whereby said shaft has axial movement parallel with the axis of the lens.

1,469,927. TIRE VALVE. HENRY P. KRAFT, Ridgewood, N. J. Filed Oct. 7, 1919, Serial No. 329,088. Renewed Dec. 13, 1922. 17 Claims. (Cl. 152—12.)

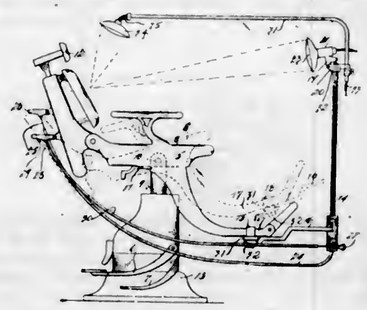


1. A tire valve for a plurality of air tubes, comprising a casing having a plurality of ducts connecting with the respective tubes and check valves in the respective ducts, and a deflator adapted to engage either check valve.

1,469,928. ADJUSTABLE SPOTLIGHT FOR DENTAL CHAIRS. LEON LAZAR, New York, N. Y. Filed Feb. 5, 1920, Serial No. 356,376. Renewed Mar. 2, 1923. 4 Claims. (Cl. 240—4.)

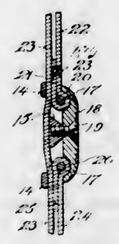
3. The combination with a dental chair, of a plurality of lights carried by and movable with the chair, one

light positioned so that it illuminates the upper portion of the patient's mouth and the other light positioned so



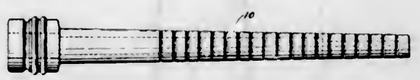
that it illuminates the lower portion of the patient's mouth.

1,469,929. LOOP-STRAP-SECURING DEVICE FOR AUTOMOBILE TOPS. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 28, 1920. Serial No. 377,250. 9 Claims. (Cl. 24—168.)



1. A device for connecting the ends of a strap comprising a frame, having oppositely-disposed cross bars around which the free ends of the strap are looped, and a clamping plate detachably secured to said frame and cooperating with said cross bars to clamp portions of said strap between said plate and cross bars.

1,469,930. METALLIC BOBBIN, SPOOL, AND THE LIKE. GEORGE A. MCINTOSH, Chelmsford, Mass. Filed Apr. 7, 1922. Serial No. 550,369. 8 Claims. (Cl. 242—121.)



2. A metallic bobbin or like filament holder for textile machinery, comprising a major proportion of magnesium and a minor proportion of zinc.

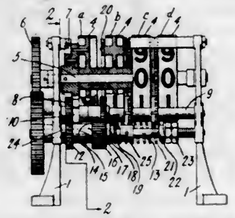
1,469,931. LENS. JOHN W. DAVISON, Mattoon, Ill. Filed Nov. 5, 1920. Serial No. 421,940. 2 Claims. (Cl. 88—57.)

1. A lens comprising a plurality of coextensive elements of light refracting properties, one of which elements is of light filtering material and has a surface of negative curvature, the algebraic sum of the curvatures



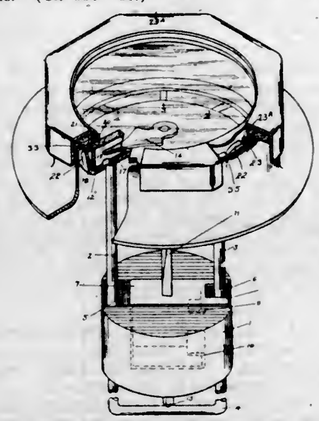
of said lens elements being equal to the curvature for securing the desired refraction.

1,469,932. COUNTER. ARTHUR A. ADAMS, Brookline, and FRANK A. EMERY, Wellesley Hills, Mass. Filed May 15, 1917. Serial No. 168,791. 4 Claims. (Cl. 235—139.)



1. An indicator comprising a master wheel, and a wheel which is fractionally rotated periodically by the master wheel, means for relieving the shock of transmission impulse and justifying the wheels at the end of the transmission impulse, said means comprising a pair of interfitting cam faced elements mounted on a shaft and relatively yieldable rotatively and axially against a spring, a stop preventing complete disengagement of said pair of elements, a gear on each of said elements arranged in transmitting relation with the master wheel and the periodically rotated wheel respectively.

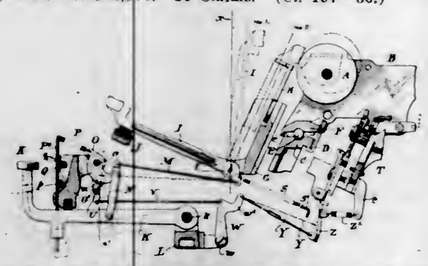
1,469,933. OIL GAUGE. HERBERT HASTINGS, Rochester, N. Y. Filed Mar. 11, 1920. Serial No. 365,044. 5 Claims. (Cl. 220—40.)



1. In a gauge, the combination of a flanged collar having a series of recesses on the inside thereof, a head having a cup shaped depression capable of engaging in

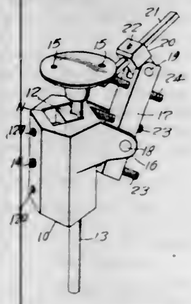
said collar, lugs formed on the outside of the side of said cup shaped depression, said lugs having cam shaped surfaces on the top thereof, said lugs being capable of passing into said recesses and engaging under the flange of said collar at the side of said recesses.

1,469,934. TYPEWRITING MACHINE. EDWARD B. HESS, Manhattan Beach, New York, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 17, 1921. Serial No. 522,970. 11 Claims. (Cl. 197—30.)



1. In a typewriting machine, the combination with the key levers and the type bars, of links connecting the key levers and the type bars, arms pivoted to move about a horizontal axis in front of the links and connected therewith, springs attached to said arms, a pivoted plate in front of said arms, and means for turning the plate about its pivotal axis to adjust the tension of the springs.

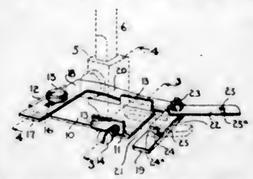
1,469,935. VALVE-FACING TOOL. ROBERT HOHNBACH, Chicago, Ill. Filed June 16, 1923. Serial No. 645,899. 3 Claims. (Cl. 82—1.)



1. A valve dressing tool comprising a body having a hole extending through it to receive the stem of a valve and adapted to be held from turning on an axis passing longitudinally through such hole, means to clamp a valve stem against one side of said hole comprising a bar, extending parallel with the valve stem when in the hole, means to guide the bar in its clamping movement, and a screw engaging the bar and passing through a hole in the body to the exterior where it is accessible for turning, and a cutter supported upon the side of said body opposite the point of application of stem clamping pressure upon said bar and adjustable to change its angle with reference to the valve.

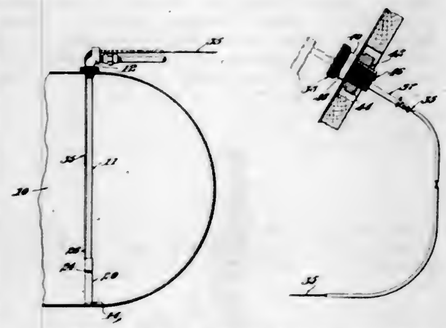
1,469,936. HEMSTITCHING ATTACHMENT FOR SEWING MACHINES. FRANK FELIX HOLLAND, Corpus Christi, Tex. Filed Mar. 22, 1922. Serial No. 545,775. 3 Claims. (Cl. 112—179.)

1. An attachment for a sewing machine having a presser foot and a needle cooperating therewith, comprising a base plate having means for attachment to the presser foot of the machine, with a portion of the plate extending to the rear of the presser foot, said base plate being forwardly and rearwardly adjustable, an integral upturned flange at the rear edge of the base plate, a substantially U-shaped bracket having one branch secured to and adjustable transversely of the base plate in abutting relation to said flange, and the



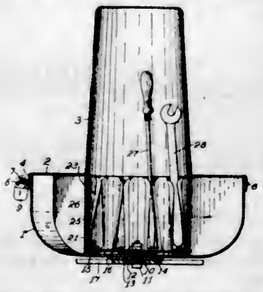
other branch arranged substantially parallel and in spaced relation to the front end of said plate and having a needle opening, the adjustment of said bracket serving to aline the needle opening with the machine needle.

1,469,937. TANK CONTROL FOR MOTOR VEHICLES. ALEXANDER W. HUTCHINSON, Boston, Mass. Filed Oct. 6, 1920. Serial No. 415,186. 4 Claims. (Cl. 158—46.5.)



1. A tank control for motor vehicles comprising a fuel feed pipe projecting into the supply tank and having an open end, a sleeve sliding upon the pipe and having openings therein removed from the end, means for normally maintaining the sleeve in a position to cover the open end of the pipe and cause the fuel to flow through the openings in the sleeve, and means located upon the dashboard of the vehicle and operatively connected with the sleeve for moving the sleeve to uncover the open end of the pipe and permit the flow of fuel directly thereinto.

1,469,938. COMBINATION CONTAINER. GEORGE COLVIN KENNEDY, Waterloo, Iowa. Filed Jan. 21, 1922. Serial No. 530,950. 9 Claims. (Cl. 206—16.)



1. In combination, an open receptacle, removable partitioning devices therein to provide a plurality of

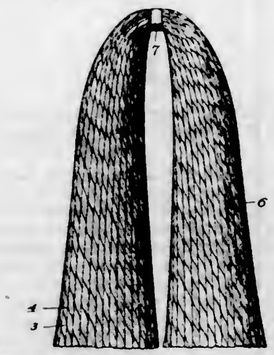
open top compartments around a central open top compartment whose wall is made up of parts of said devices, and a removable closure for the receptacle having a raised cupped part over the central compartment only, the closure having a circumferential rim serving to close the other compartments to isolate them from each other and said central compartment.

1,469,939. HIGHWAY CONSTRUCTION. HERBERT M. KNIGHT, Montclair, N. J. Filed Oct. 27, 1919. Serial No. 333,562. 62 Claims. (Cl. 238—5.)



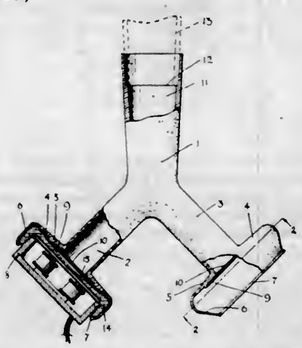
2. The combination of tracks and ties having registering grooves in their juxtaposed surfaces.

1,469,940. MOP MATERIAL. HARRY I. KLAWANS, Chicago, Ill. Filed Apr. 13, 1922. Serial No. 552,251. 3 Claims. (Cl. 15—228.)



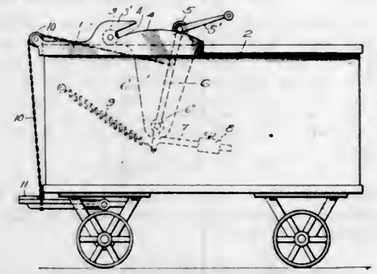
1. A mop comprising a plurality of strands, each strand consisting of a twisted bundle of roves of fibrous material with a cord of spun and twisted yarn disposed substantially upon the surface of and spirally of the roves.

1,469,941. RECEIVER SUPPORT FOR SOUND AMPLIFIERS. CHARLES W. KUEN, Chicago, Ill. Filed May 1, 1922. Serial No. 557,663. 1 Claim. (Cl. 179—146.)



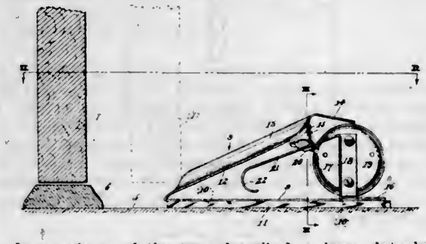
A device of the character described comprising a Y-shaped tubular sound conducting member constructed of resilient rubber, one branch of said Y-shaped member being tapered outwardly from the body portion thereof, and having a rabbeted portion on the inner wall at the mouth of the branch, and integral cup-shaped supporting members carried by the remaining branches of the tubular member at the outer ends thereof for yieldingly supporting a pair of telephone receivers, said cup-shaped portions having their sound conducting passages arranged to register with the sound conducting passage in said telephone receivers.

1,469,942. WRINGING APPARATUS. SIMEON C. LAWLOR, Chicago, Ill. Filed Sept. 13, 1919. Serial No. 323,507. 1 Claim. (Cl. 15—262.)



In wringing apparatus, the combination of a frame adapted for application to a tank, a fixed roller journaled in the frame, a yoke pivoted to the frame, a roller journaled in the yoke and movable therewith toward and from the fixed roller, counter-balancing means connected to the yoke and stressing the same in a direction for moving the roller carried thereby away from the fixed roller, the frame being formed with an exposed, arcuate track for each journal of the movable roller, each of said tracks terminating in an elongated guiding notch flaring outward and leading from a point adjacent the respective journal of the fixed roller, and means for moving the yoke against the stress of the counter-balance.

1,469,943. BURGLAR ALARM. MIKE MACURA, Hastings-on-Hudson, N. Y. Filed July 18, 1923. Serial No. 652,323. 1 Claim. (Cl. 116—82.)

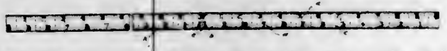


In an alarm of the type described, a base plate having depending prongs, a rubber block secured to said base by said prongs, an angularly arranged top portion carried by one end of said base portion, a bracket member carried by the opposite end of said base, a bicycle bell carried by said bracket having an operating button projecting therefrom, a depending leg carried by the free end of said angularly arranged portion adapted for engaging said operating button for sounding said bell when the angularly arranged portion is moved in the direction of said base portion, and a movement limiting arm carried by said bracket member for preventing too great a downward movement of said angularly arranged portion.

1,469,944. MEASURING RULE. MOSES C. MERRILL, Buxton Center, Me. Filed May 1, 1922. Serial No. 557,709. 2 Claims. (Cl. 33—111.)

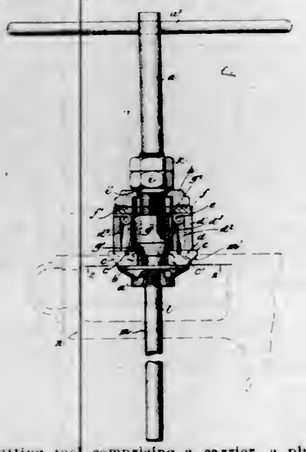
1. A rule of the character described divided into inches, each inch being separated from an adjacent inch by a line extending transversely across the rule, each margin of the rule having short lines indicating frac-

tions of an inch, each inch line being associated on opposite edges of the rule with numerals indicating inches, the numerals reading on one margin of the rule from right to left and on the opposite margin of the rule from left to right, the inch line for each twelfth inch being associated with a numeral indicating feet on each margin of the rule, the inch numerals



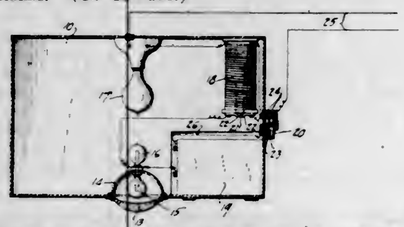
and the foot numerals on one margin of the rule reading from right to left and upon the opposite margin of the rule reading from left to right, both sets of numerals reading from the same edge of the rule, the numerals on each edge of the rule being disposed between the inch line with which they are associated and that end of the rule from which the numerals are to be read.

1,469,945. CUTTING TOOL. RICHARD MORSDOFF, West Hoboken, N. J. Filed Dec. 6, 1921. Serial No. 520,212. 6 Claims. (Cl. 90—12.5.)



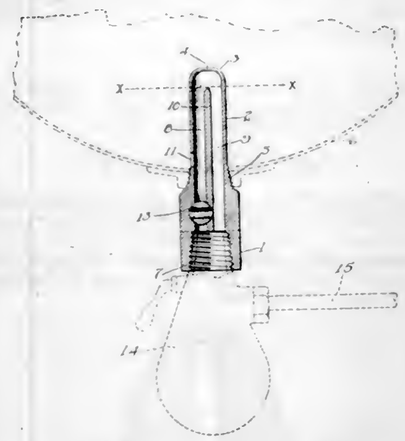
1. A cutting tool comprising a carrier, a plurality of movable cutters mounted movably in the carrier and radially thereof, a shaft extending through the carrier, a tapered nut threaded on the shaft, a slot and stud connection between the carrier and the nut whereby rotation of the carrier effects axial movement of the nut with respect thereto, means to press the cutters yieldingly against the tapered nut, and means to clamp the parts in working position.

1,469,946. EXIT LIGHT. JOHN A. MORRISON, Spokane, Wash. Filed Jan. 24, 1923. Serial No. 614,657. 4 Claims. (Cl. 40—132.)



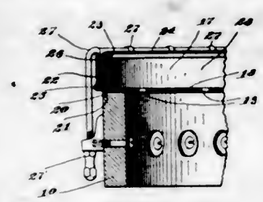
4. In combination, an indicator for an objective, a circuit including means for illuminating the indicator alone, an open second circuit including separate means for illuminating the objective and indicator, and means for completing the second circuit upon failure of the first circuit.

1,469,947. LIQUID-RESERVE DEVICE. ROLLA E. MUDD, Chicago, Ill. Filed June 19, 1922. Serial No. 569,459. 2 Claims. (Cl. 158—46.5.)



1. The combination with a gravity fuel feed tank of a reserve supply device comprising a casing arranged to extend through the bottom of the tank and into the interior of the latter, the top of the casing being normally below the level of the liquid fuel, said casing having a small air opening at its top, and being provided with two passage-ways communicating with each other at the upper portion of the casing, one of said passage-ways being in communication with the interior of the tank near the bottom thereof, and the other extending to the bottom of the casing.

1,469,948. MUSICAL-INSTRUMENT TONE AMPLIFIER. JOSEPH PACHECO, Somerville, Mass. Filed Feb. 20, 1922. Serial No. 537,710. 2 Claims. (Cl. 84—271.)



1. A banjo comprising a hoop, a metallic sounding board mounted on one end of said hoop and provided with a plurality of perforations in its surface, an annular rim formed integral with said metallic sounding board and extending outwardly therefrom, a head mounted on the open end of the annular rim and having its surface lying in a plane parallel to the plane of the metallic sounding board, said head, rim, and metallic sounding board constituting a closed amplifying chamber, and means mounted on said hoop for stretching the head tightly over the open end of the rim.

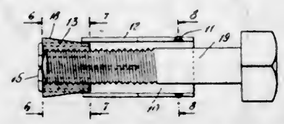
1,469,949. WELL-SCREEN WASHER. HENRY MELVIN PARKER, New Orleans, La. Filed Aug. 26, 1920. Serial No. 406,060. 11 Claims. (Cl. 166—20.)

1. An instrument of the class described comprising a pipe, a hollow expansible member surrounding said pipe and forming a fluid tight annular chamber between it and said pipe, said pipe having the portion surrounded by said expansible member perforated and valve means located at



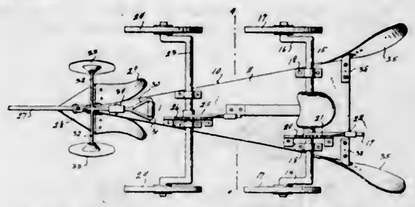
the lower end of said pipe operative to close against pressure from within and to open responsive to superior pressure from without the pipe.

1,469,950. BOLT ANCHOR. RALPH E. OGDEN, Mountainville, N. Y., assignor to The Orsbee Company, Inc., a Corporation. Filed Aug. 9, 1921. Serial No. 490,859. 9 Claims. (Cl. 85—24.)



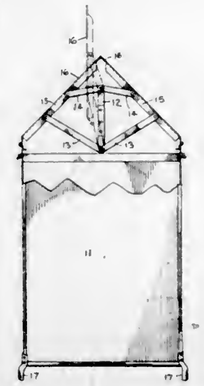
1. In combination, an expansion shield having a plurality of longitudinally extending fingers with their edges substantially parallel and a nut for expanding said shield having grooves with parallel walls for receiving said fingers.

1,469,951. DITCH-CUTTING MACHINE. ALBERT W. FULLER, Laurel, Mont. Filed Aug. 24, 1921, Serial No. 495,037. Renewed Aug. 29, 1923. 4 Claims. (Cl. 37—98.)



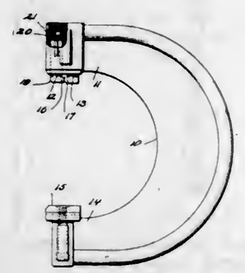
1. A ditching machine of the character described comprising a sharp-pointed, approximately triangular body, a pair of transversely extending axles mounted upon the body and having cranked ends, supporting wheels carried upon the cranked end of the axles, manually operable means for oscillating the axles to raise or lower the body, a plow point mounted upon the forward end of the body and having upwardly extending mold boards on each side of the body, and cutting disks carried upon the forward end of the body above the rear end of the plow point and forward of the mold boards.

1,469,952. SELF-CLOSING RECEPTACLE. HENRY R. GODAY, Columbus, Ohio, assignor to Solar-Sturges Mfg. Co., a Corporation of Illinois. Filed Oct. 5, 1921. Serial No. 505,525. 5 Claims. (Cl. 220—32.)



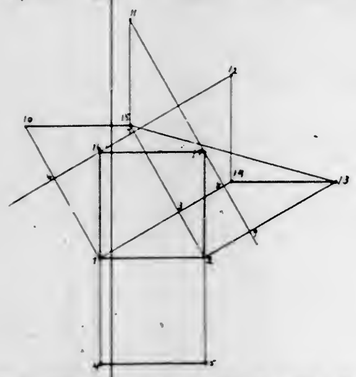
1. The combination of a receptacle having an opening; a closure serving to close said opening; and supporting and guiding means for the closure including unequal links pivotally supported within the receptacle and pivotally supporting the closure, said links being constructed and arranged to guide said closure from closed position to an open position in which the closure stands adjacent one edge of said opening and projects through the same.

1,469,953. SNAP GAUGE. CARL GABRIELSON, Syracuse, N. Y. Filed Apr. 6, 1921. Serial No. 458,879. 7 Claims. (Cl. 33—163.)



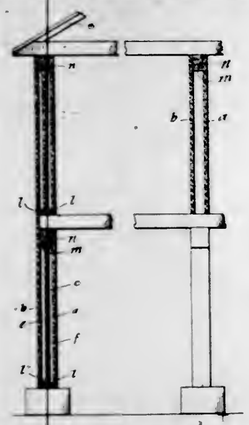
1. A snap gauge comprising a frame, a contact member mounted on one arm thereof and a plurality of measuring pins mounted in the other arm of said frame at different distances from the end which faces the work, the outer projecting portions having end surfaces in planes at right angles to the longitudinal sides of the pins, the end work contacting surfaces being so shaped as to substantially bridge the space between the pins, thus preventing the gauge from dropping or moving vertically to a material extent after contact with one pin and before the next pin in the series makes contact with the work and means for longitudinally moving and adjusting said pins in said frame.

1,469,954. MATHEMATICAL APPARATUS. ALBERT H. KENNEDY, Rockport, Ind. Filed Feb. 18, 1921, Serial No. 446,112. Renewed June 11, 1923. 3 Claims. (Cl. 35—2.)



1. The combination of two pairs of hinged parallelograms, pivoted at the four corners of a square and connected and functioning in such a manner that when rotated about these four points, the two pairs of parallelograms will remain at right angles to each other in all possible positions, substantially as described.

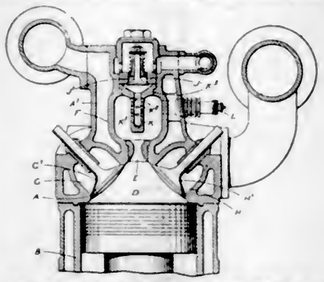
1,469,955. BUILDING CONSTRUCTION. FRANCIS BELL REILLY, Regina, Saskatchewan, Canada. Original application filed Aug. 15, 1921, Serial No. 492,594. Divided and this application filed Aug. 26, 1922. Serial No. 584,513. 3 Claims. (Cl. 72—1.)



1. A building construction comprising a plurality of wall blocks having recesses in their ends designed when the blocks are set together to form spaces to receive a vertically extending column, a plurality of columns cast in said spaces, certain of the wall blocks having their outer walls projected above the inner walls to form a seat on the inner wall, a floor supported on the seat comprising a plurality of tiles, slabs and a concrete floor interlocked with the slabs.

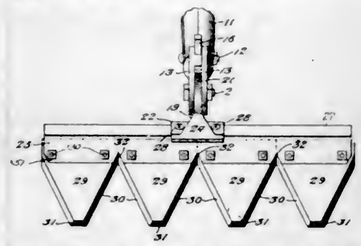
1,469,956. FUEL-ADMISSION DEVICE FOR INTERNAL-COMBUSTION ENGINES. HARRY RALPH RICARDO, London, England. Filed Nov. 22, 1919. Serial No. 340,036. 5 Claims. (Cl. 123—31.)

1. In an internal combustion engine the combination of a cylinder provided at its head with a pocket that communicates with the combustion chamber of the cylinder through a constricted passage, means for admitting fuel through an opening into the pocket, the pocket being entirely closed except for said fuel inlet and constricted outlet passage and a tube with perforations in its wall



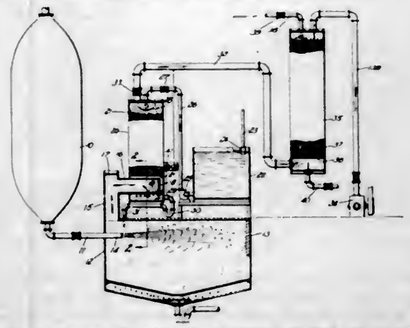
and one end closed and the other end fixed to the wall of the pocket so that the fuel will first pass into the tube and thence through the openings in its wall into the pocket as set forth.

1,469,957. FIRE-FIGHTING TOOL. CHARLES H. RICH, Woolrich, Pa. Filed Feb. 21, 1921. Serial No. 446,975. 1 Claim. (Cl. 97—67.)



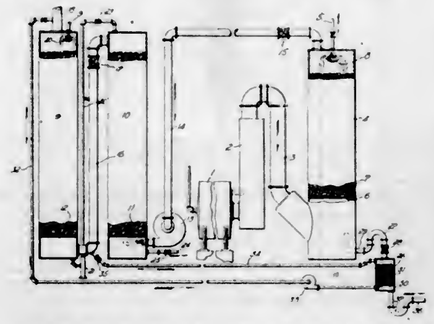
A tool for fighting forest fires, comprising a handle, a head connected with the forward end of the handle and disposed crosswise thereof and adjustable about the connecting means as a center and having a rearwardly extending flange, means to adjustably fix the head with respect to the handle, and blades carried by the head and arranged side by side crosswise of the handle with their heel ends opposed to the said rearwardly extending flange, said blades having forward transverse cutting edges and oblique side edges, the adjacent side edges of any two adjacent blades converging at the head.

1,469,958. APPARATUS FOR AND METHOD OF RECOVERING WASTE GASES. GEORGE A. RICHTER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Aug. 25, 1920. Serial No. 405,915. 12 Claims. (Cl. 23—1.)



1. A process of recovering sulphur dioxide from blow-pit vapors and gases, which comprises conducting said gases and vapors and cold water in counter-current flow through a mass of interstitial surface material, thereby cooling the gases and condensing the vapors by direct contact thereof with the water, recovering the free unabsorbed sulphur dioxide which is cooled by said water, and then removing from the heated water the sulphur dioxide absorbed thereby.

1,469,959. COOLING AND ABSORBING SYSTEM FOR SULPHUR DIOXIDE. GEORGE A. RICHTER and GORDON E. WIGHTMAN, Berlin, N. H., assignors to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Aug. 28, 1920. Serial No. 406,645. 13 Claims. (Cl. 23—1.)

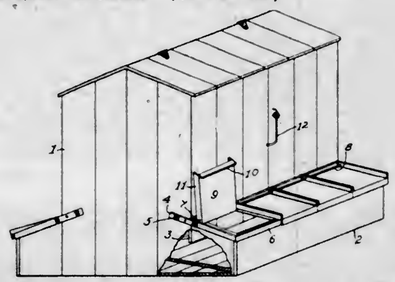


1. The herein described process of treating hot sulphur burner gases, which comprises passing such hot gases and cold water in contact in counter-current flow through a confined space to cool such gases, passing such cooled gases through an absorbing medium to recover sulphur dioxide therefrom, passing a gas through the water employed in cooling said hot burner gases to recover sulphur-dioxide therefrom, and mixing such recovered gases with the cooled gases.

1,469,960. PROCESS OF TREATING BLACK LIQUOR PRODUCED IN THE MANUFACTURE OF SULPHATE PULP. GEORGE A. RICHTER and DOUGLAS H. MCMURTRIE, Berlin, N. H., assignors to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Nov. 4, 1920. Serial No. 421,769. Renewed Feb. 9, 1923. 6 Claims. (Cl. 23—22.)

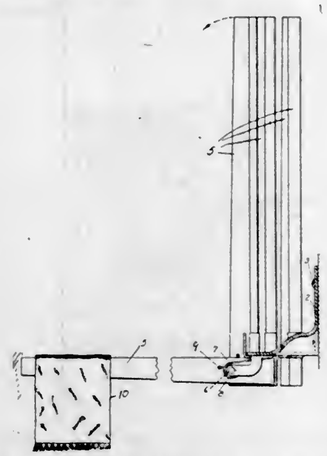
1. A process comprising burning and smelting spent black liquor resulting from the digestion of wood in the manufacture of sulphate pulp, in the presence of free sulphur, and recovering the molten effluent.

1,469,961. FEEDING DEVICE. EDWARD J. ROOD, Webster City, Iowa. Filed Oct. 6, 1922. Serial No. 592,851. 2 Claims. (Cl. 119—52.)



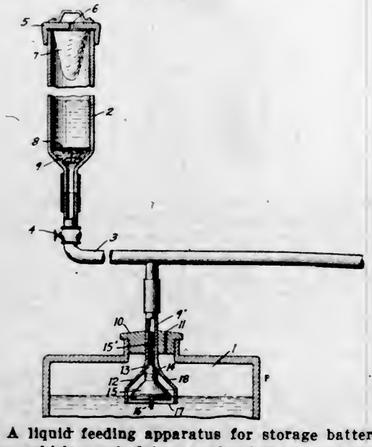
1. In combination, an open top trough, fixed supporting-means, arms terminally pivoted on said supporting-means, an open frame rigidly supported on said arms above the open top of said trough and containing spaced cross-bars therealong, and closures hinged to said frame over the interspaces of the cross-bars to swing upwardly and supported on the frame, said arms when swung upwardly, carrying with them said closures to wholly uncover said trough.

1,469,962. LAUNDRY DRIER. EDWARD W. ROTH, Hartford, Conn. Filed Dec. 1, 1922. Serial No. 604,208. 1 Claim. (Cl. 68—34.)



A device of the class described involving a support comprising a horizontal and a vertical flange, the vertical flange being attachable to a mounting, a plurality of bearings each in the form of a forked bracket, the front side of the support being of arcuate formation, said brackets being mounted in arcuate order along said front edge, pivots extending between the sides of the bearings, arms having holes to receive the pivots, and coiled springs coiled about each pivot between an arm and an adjacent side of the bearing, the terminals of the springs acting against each arm and also against the under side of the support.

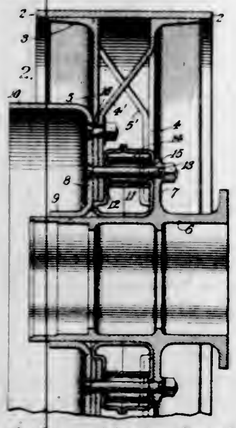
1,469,963. WATER-FEEDING APPARATUS FOR STORAGE BATTERIES. JACK D. SARTAKOFF, New York, N. Y. Filed Dec. 20, 1918. Serial No. 267,586. 8 Claims. (Cl. 137—68.)



4. A liquid feeding apparatus for storage batteries of motor vehicles embodying a plurality of conventional, non-communicating battery cells each of which is pro-

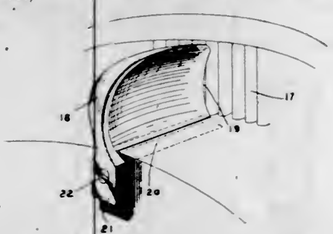
vided with a filler cap having a passage leading therethrough into the associated cell, a liquid supply reservoir positioned at a distance from the cells and mounted independently thereof, a conduit leading from the reservoir to the passages of the several caps, whereby liquid may be fed from the reservoir through the filler caps into the cells, and means for individually controlling the feed of liquid into each cell.

1,469,964. METAL WHEEL. CHARLES SCHENCK, Bethlehem, Pa., assignor to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Nov. 28, 1919, Serial No. 341,063. Renewed Mar. 7, 1923. 7 Claims. (Cl. 301—6.)



1. A metal wheel comprising two flanged bars arranged in parallel spaced relation with the flanges bent into wheel shape and the webs cut to form inwardly extending spokes, and a hub secured to the inwardly extending spoke portions.

1,469,965. TURBINE. HENRY F. SCHMIDT, Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed July 6, 1921. Serial No. 482,768. 46 Claims. (Cl. 253—70.)



1. An elastic-fluid turbine comprising a plurality of energy-abstracting stages through which the elastic fluid flows in the same general direction and a stage including a row of moving blades each having a continuous surface and which are adapted to receive elastic fluid flowing in the same general direction from the preceding stages and to expand and to discharge the same in a substantially different direction.

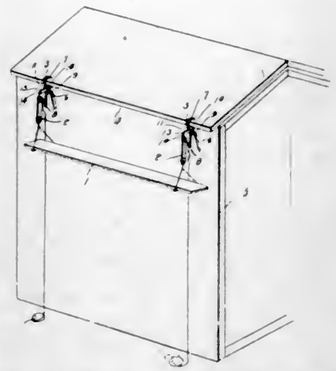
1,469,966. TIRE VALVE. MAXIMILIAN CHARLES SCHWEINERT, West Hoboken, N. J. Filed Mar. 28, 1918. Serial No. 225,162. 3 Claims. (Cl. 152—12.)

1. The combination with a shell adapted to be secured to a tube or the like, said shell having a bore adapted to receive a valve proper having an elastic sleeve, and said shell having a tapered shoulder adapted to engage a packing on said valve proper, of a supplemental casing adapted to be secured to said shell, said supplemental casing being open at its top and having a bore of sufficient diameter to receive through its top the working



parts of a standard valve comprising a seat, and a movable valve proper, said bore opening into said shell and communicating with said tire tube through said shell, said casing and valve parts being adapted to replace said first-named valve structure when the latter is removed.

1,469,967. SCAFFOLD HANGER. JOHN SEDVIEK, Seattle, Wash. Filed June 3, 1921. Serial No. 474,793. 1 Claim. (Cl. 304—19.)



A scaffold hanger comprising a one-piece body bifurcated to provide spaced arms provided with parallel portions and outwardly diverging portions extending therefrom and adapted at their free ends to abut a building, said body being relatively thick and having a jaw at the other end to engage the building, a lever pivoted intermediate said parallel portion of the arms to the body and at a distance above the lower ends of said arms, said lever at one end adapted to engage the building to coact with said jaw, the other end of the lever being adapted to support a scaffold, said latter end and said jaw being on the opposite sides of the fulcrum of the lever whereby the weight of the scaffold will maintain the arms, lever and jaw in effective engagement with the building.

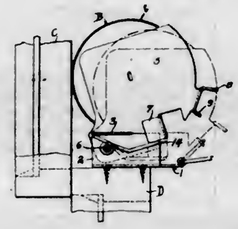
1,469,968. HEEL PAD. HARRY J. SOLLIDAY, St. Louis, Mo. Filed Jan. 14, 1922. Serial No. 529,228. 1 Claim. (Cl. 174—174.)

As a new article of manufacture, a heel pad comprising an elongated and substantially elliptical primary plate, said primary plate provided with an elongated longitudinally extending depressed portion provided with an aperture adjacent each end thereof, an insulating lining fitting entirely within said depressed portion and

entirely covering the same, an elongated auxiliary plate bearing against the lining and positioned entirely within and conforming in shape to the depressed portion, said lining covering the edges of said auxiliary plate, an outer fabric pad against the primary and auxiliary plates, rivets extending through the apertures of the depressed portion of the primary plate and also through the lining, auxiliary plate and pad, thereby fastening the same together, a thumb tack extending through the primary plate and positioned between the primary plate and the pad, whereby said tack is retained in a set position, an inner pad against the primary plate and the outer pad, and stitching securing the two pads together with the thumb tack extending through the inner pad, as and for the purposes set forth.



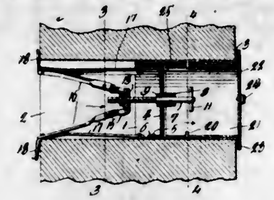
1,469,969. BURGLAR ALARM. FRED E. SPARKS, Akron, Ohio. Filed Dec. 12, 1921. Serial No. 521,710. 4 Claims. (Cl. 116—90.)



3. In a device of the character described, a base plate, provided with a supporting member of substantially U-shape in cross-section, a supporting plate, a pivot pin passing through the supporting plate and the U-member, said supporting plate being provided with a guide element fitting about one wall of the U-member for guiding the supporting plate during movement thereof, a spring mounted about the pivot pin and bearing at one end on the web of the U-member, the other end of the spring bearing against said guide member and acting to hold the supporting plate raised, automatically actuated alarm means mounted on the supporting plate and adapted to be released by rolling contact with an object, and means for releasably securing the supporting plate in lowered position.

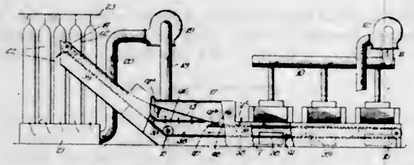
1,469,970. STOVEPIPE ANCHOR, FLUE THIMBLE, AND FLUE STOPPER. HAMILTON B. SPARKS, Terre Haute, Ind. Filed Feb. 24, 1922. Serial No. 538,865. 2 Claims. (Cl. 126—319.)

1. In combination, a stove pipe thimble, means associated with the thimble for engaging a stove pipe, a plurality of resilient arms extending therefrom and terminating in angular extensions, a plurality of auxiliary arms attached at one end to the terminals of the first mentioned arms, a bar extending transversely of the



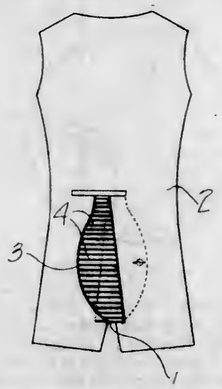
thimble, a threaded rod rotatable in the bar, a nut on the threads of said rod, and means for connecting the auxiliary arms to the nut.

1,469,971. ART OF MANUFACTURING FLAX FIBER FOR SPINNING. BERTRAND S. SUMMERS, Port Huron, Mich. Filed Dec. 4, 1920. Serial No. 428,187. 10 Claims. (Cl. 19—30.)



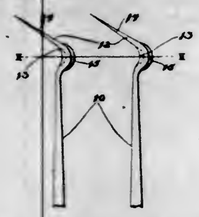
1. Apparatus for treating flax straw comprising a plurality of individual scutching machines, a conveyor adapted to carry away the refuse from the machines, a box enclosing said conveyor, and means adapted to pass a dust carrying current of air through said box in the direction away from the scutching machines.

1,469,972. RIBBED UNDERFLAP FOR UNDERGARMENTS. SAMUEL F. SWANTNER, St. Louis, Mo. Filed Aug. 2, 1922. Serial No. 579,149. 1 Claim. (Cl. 2—144.)



An undergarment provided at the back with a seat opening, an outer flap extending across the seat opening and covering the same at the exterior of the garment and buttoned to the same, and an interior oppositely disposed flap extending across the seat opening and covering the same interiorly of the garment and widened between its upper and lower ends to form a lateral extension at the free edge, said inner flap being ribbed horizontally throughout the entire width of the flap, whereby the flap is caused to maintain its normal position and resist folding, rolling or bending about its longitudinal axis.

1,469,973. TURBINE BLADING. LOUIS N. THOMPSON, Moore, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 6, 1922. Serial No. 592,791. 9 Claims. (Cl. 253—77.)



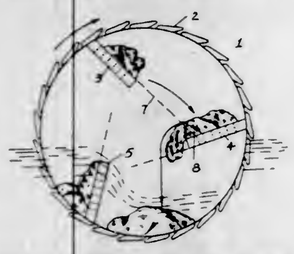
1. In a turbine, a row of blades having outer portions extending rearwardly to define discharge passages for motive fluid and protruding masses at the forward sides of the blades to counter-balance the rearwardly-extending portions.

1,469,974. VALVE-SPRING LIFTING TOOL. MARIO J. VAGGE, Nashua, N. H. Filed Jan. 27, 1922. Serial No. 532,215. 3 Claims. (Cl. 29—86.3.)



1. In a valve spring lifting tool, the combination of a spindle having a shoulder and threaded at one end below the shoulder, with a turning handle at its other end, a collar which bears against the shoulder and is revoluble on the spindle, and a lifting fork having a threaded hole for the threaded end of the spindle and prongs recessed at their adjoining edges.

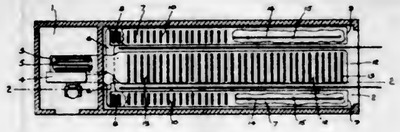
1,469,975. DRUM FOR WASHING MACHINES. WILLIAM G. WAGENHALS, Saginaw, Mich. Filed Jan. 24, 1921. Serial No. 439,547. 1 Claim. (Cl. 68—18.)



In combination, a rotatable drum for washing machines, said drum having a continuous cylindrical surface, a set of three longitudinally disposed perforated baffles enclosed within said drum, said baffles so located with respect to each other that the projecting plane of the advancing surface of one of said baffles intersects the plane of the receding surface of the next baffle ahead, said baffles being of sufficient width to serve as trays to carry materials in a mass bodily to the upper part of said drum and to discharge therefrom onto the rearward face of the next baffle ahead, for the purposes set forth.

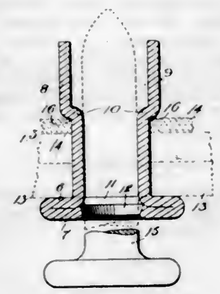
1,469,976. DRY KILN. JOSEPH PATRICK WALSH, Vancouver, British Columbia, Canada. Filed Oct. 19, 1922. Serial No. 595,648. 6 Claims. (Cl. 34—19.)

4. In a dry kiln, the combination with a drying kiln, of heated air supplying ducts and a supply duct and return duct each having slit openings extending crosswise of the top thereof having forwardly deflected fins depending from the rearward edge of each slit opening, and a



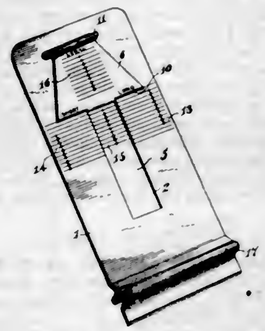
heating device for heating and circulating the air through the supply duct and back through the return duct to the heating source.

1,469,977. RIVET. CLAYTON B. WEAVER, deceased, late of Philadelphia, Pa., by Phebe Weaver, executrix, Philadelphia, Pa. Filed Aug. 20, 1919. Serial No. 318,762. 5 Claims. (Cl. 85—38.)



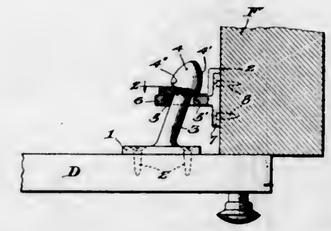
1. A clinch rivet having a head portion and prongs or legs formed integral therewith and extending in inclined relation toward each other, and laterally away from the head portion, said legs or prongs having shoulders formed therein to engage over the adjacent surface of a part to which the rivet is to be applied.

1,469,978. MARGIN INDICATOR. UNION B. WHITE and HAROLD N. LAWRIE, Washington, D. C. Filed Sept. 8, 1920. Serial No. 408,916. 8 Claims. (Cl. 197—143.)



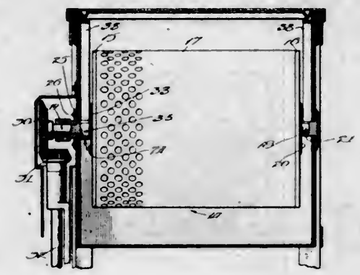
1. An indicator comprising a body, an adjustable indicator slidably mounted thereon, a stop provided with an under bent tongue secured to said adjustable indicator, a filler plug fitting between said tongue and the body of said stop for bracing the same, a finger grip formed upon one end of said stop and terminating in a downwardly extending rolled portion for frictionally gripping the face of said body, and said finger grip constituting a paper stop.

1,469,979. CATCH FOR DOORS AND THE LIKE. WILLIAM G. WILSON, Bridgeport, Conn. Filed Mar. 7, 1922. Serial No. 541,720. 3 Claims. (Cl. 292—76.)



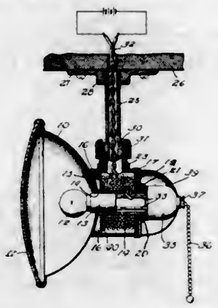
1. A catch including a male element having an attaching base, a resilient shank carried by the base, a wedge-shaped ball-like head on the shank, a keeper having an aperture to receive the head and having the wall defining the aperture rounded, the shank being relatively thick and stout so as to cause one side of the base of the head to snap over and into engagement with the keeper and the opposite side of the base of the head being spaced from the keeper, and a latch interposed between the keeper and head and pivoted to the keeper and movable into said space so as to engage the base of the head to prevent the latter from moving out of the keeper.

1,469,980. WASHING MACHINE. OGLESBY ALLEN, Jr., Chicago, Ill. Original application filed Mar. 14, 1919, Serial No. 282,585. Divided and this application filed Aug. 22, 1919. Serial No. 319,074. 2 Claims. (Cl. 68—78.)



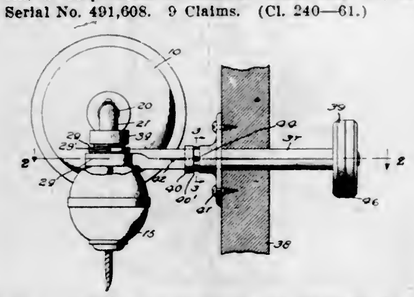
1. In a washing machine, the combination with a tub, a clothes drum therein an angular drive stud projecting from the end wall of the clothes drum, and a bearing sleeve extending through and flanged to be attached to the outer side of the tub wall and notched at its inner end, of a drive shaft journaled in said sleeve and having a slot to register with the notch of the bearing sleeve and to interlock with said drum stud within the notched inner end of said bearing sleeve and externally shouldered to engage an internal shoulder of said sleeve.

1,469,981. SPOT AND EXTENSION LAMP. ERNST G. K. ANDERSON, Chicago, Ill., assignor, by mesne assignments, to Appleton Electric Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 10, 1921. Serial No. 491,077. 10 Claims. (Cl. 240—7.)



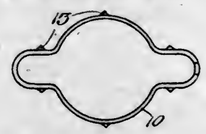
1. In an extension spot lamp, a casing for the lamp, a reel for a lamp cord fixed to and rotative with said lamp casing and a bearing structure and reel enclosing shell having means of attachment to a support and in which said reel is mounted for rotation.

1,469,982. MOUNTING FOR UNIVERSAL SPOTLAMPS. ERNST G. K. ANDERSON, Chicago, Ill., assignor, by mesne assignments, to Appleton Electric Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 11, 1921. Serial No. 491,608. 9 Claims. (Cl. 240—61.)



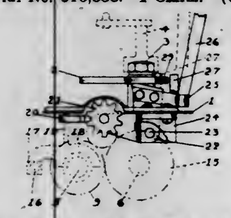
1. A universal spot lamp mounting, embracing a tubular bracket adapted for rotational mounting and provided at one end with a hand piece to rotate it, a support at the other end of said bracket, a lamp structure, two independent rotational joints to support the lamp structure for rotation on said support in a plane at a right angle to the plane of the rotational axis of said tubular bracket, a shaft within the tubular bracket and geared to one of said rotational joints, the other joint being adapted to be manually rotated, independently of said shaft, and a hand piece for said shaft.

1,469,983. DRIVER FOR SPINNING SPOOLS. JOHN NORMAN ANDERSON, Lawrence, Mass. Filed Oct. 26, 1922. Serial No. 597,037. 1 Claim. (Cl. 242—120.)



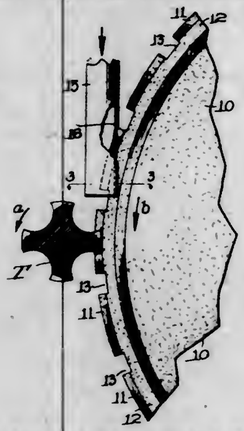
A driver for spinning spools formed from a flat strip of sheet metal having a series of projections along the side and bent into a single closed curve of non-round form with the ends of the strip united together.

1,469,984. REVERSING DEVICE FOR MOTOR CYCLES. STEPHEN L. BARLOUGH, Saginaw, Mich. Filed Nov. 19, 1921. Serial No. 516,388. 1 Claim. (Cl. 74—58.)



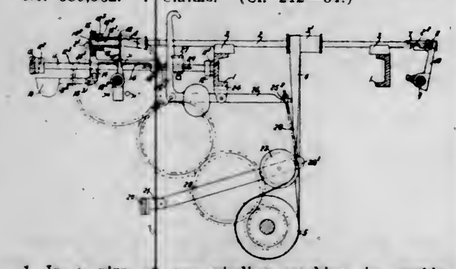
In a motor cycle, in combination, a gear case, a removable gear case cover, a gear-shift mechanism in said case including an idle reversing gear, a bracket secured to the inner face of said cover, an arm pivoted to said bracket, a bent lever fixed to said arm and projecting through said cover, a gear-shift quadrant and a latching means adapted to releasably engage said lever and quadrant, for the purposes set forth.

1,469,985. MECHANISM FOR GRINDING TAPS. JOHN BATH, Worcester, Mass. Filed Jan. 9, 1922. Serial No. 527,812. 2 Claims. (Cl. 51—209.)



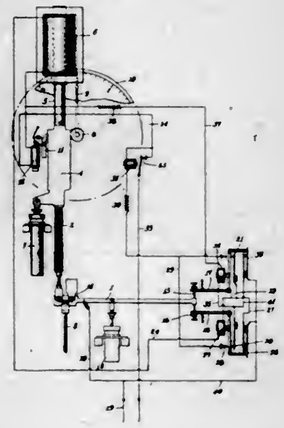
2. As an article of manufacture, a wheel for grinding taps having its working edge shaped to correspond to the thread to be ground, and comprising alternately disposed cutting portions and transverse openings each of substantial length, the length of a cutting edge portion being between two and three times the length of the adjacent opening.

1,469,986. COP AND PIRN WINDING MACHINE. THOMAS A. BOYD and HAROLD A. BOYD, Shettleston, near Glasgow, Scotland. Filed Feb. 27, 1922. Serial No. 539,562. 7 Claims. (Cl. 242—34.)



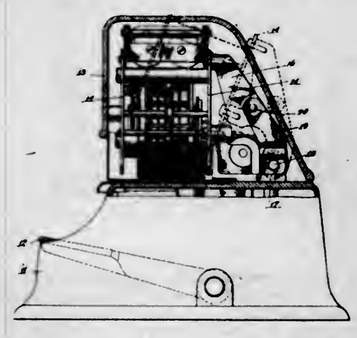
1. In a pirn or cop winding machine, in combination, a feeler, and means for rotating the feeler before the yarn being wound upon the pirn or cop comes in contact with the said feeler for the purposes described.

1,469,987. WEIGHING SCALE. JAMES W. BRYCE, Binghamton, N. Y., assignor, by mesne assignments, to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey. Filed Oct. 29, 1918, Serial No. 260,110. Renewed Feb. 9, 1921. Serial No. 443,725. 15 Claims. (Cl. 265—70.)



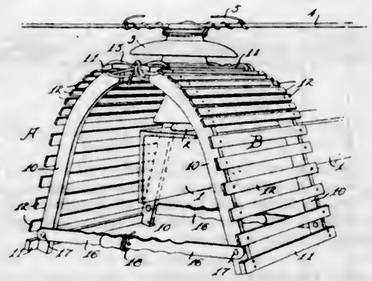
1. In a weight indicating mechanism, the combination with the scale beam, of contacts on opposite sides of said beam, circuits controlled by the engagement therewith of the beam, an electric power device adapted to be energized by said circuits, a spring connected with the beam and adapted to be distended by the energized power device, and relays in the said circuits and contacts controlled thereby for interrupting the current of the said device as soon as the pull of the spring equalizes the gravity pull on the beam.

1,469,988. RECORDER. JAMES W. BRYCE, Bloomfield, and WILLIAM P. ANDERSON, Bogota, N. J., assignors to International Time Recording Company, Endicott, N. Y., a Corporation of New York. Filed Aug. 11, 1922. Serial No. 581,059. 5 Claims. (Cl. 234—43.)



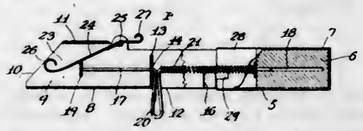
2. A recording machine comprising a supporting base, a printing head pivotally mounted upon the base, and locking means associated with said base and head adapted to prevent the tipping of the head when the machine is in use.

1,469,989. LINEMAN'S GUARD. HAZEL B. BUSH, Bedford, Ohio, assignor to The Bush Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 16, 1920. Serial No. 404,008. 3 Claims. (Cl. 173—28.)



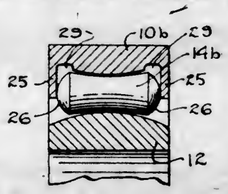
2. A lineman's guard consisting of opposed frames, each frame comprising side members and cross members, the latter connecting together and spacing apart the opposite ends of the side members, and cleats supported by and extending between the side members and distributed between the cross members at comparatively short distances apart, means for connecting together and to a supporting object corresponding ends of the opposed frames, the frames being disposed on opposite sides of an object against contact with which the lineman is to be protected, and means spacing apart and connecting together the opposite ends of the opposed frames.

1,469,990. TOY SHOOTER. DANTE CAVICCHIOLI, New York, N. Y. Filed Apr. 30, 1923. Serial No. 635,473. 10 Claims. (Cl. 124—12.)



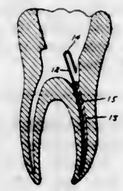
1. A shooter of the class described comprising a handle portion, forwardly of which is a box-shaped receiver into which an object to be advanced is adapted to be placed, a spring actuated rod mounted in the shooter and extending into said receiver and adapted to discharge an object from said receiver, said rod being provided with an integral trigger device for controlling the operation thereof, the shank of the shooter being provided with a recess adapted to receive said trigger device for retaining said rod in predetermined position against the tension of said spring, and means for locking the trigger device against movement.

1,469,991. MEANS FOR PREVENTING DISPLACEMENT OF ROLLERS IN ROLLER BEARINGS. PERCY A. E. ARMSTRONG, Loudonville, N. Y. Filed Sept. 28, 1920. Serial No. 413,338. 3 Claims. (Cl. 64—39.)



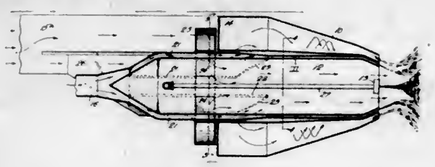
2. In a roller bearing, curved rollers, inner and outer bearing members, the inner bearing member being spherical, and means on the outer bearing member adapted to engage with the rollers at substantially the axes thereof to prevent longitudinal displacement thereof with respect to the outer bearing member.

1,469,992. DENTAL ROOT-CANAL POINT. LEWIS O. CARD, Somerville, Mass. Filed Aug. 7, 1922. Serial No. 580,024. 1 Claim. (Cl. 32—32.)



A device for treating the walls of a canal of a tooth root composed of a compressible plug of absorbent material, formed to extend throughout the length of a root canal in a tooth, and a core of attenuated flexible wire, within and adhering to the plug, whereby the plug is adapted to be readily pushed into and withdrawn from the canal, said core having a hook-engaging portion at its outer end adapted to occupy a cavity in the body of the tooth, without projecting therefrom, so that the device will not interfere with the use of the tooth while a root canal thereof is being treated by it.

1,469,993. METHOD OF AND APPARATUS FOR ADDING MOISTURE TO POWDERED MATERIALS. WILLIS H. CARRIER, New York, N. Y., assignor to Carrier Engineering Corporation, New York, N. Y. Filed Jan. 7, 1920. Serial No. 350,052. 23 Claims. (Cl. 83—73.)



1. The hereindescribed method of increasing the moisture content of powdered material without changing the material from a substantially dry powdered condition, consisting in producing a blast of the powdered material, discharging liquid in a fine spray in proximity to the blast of powdered material, and forming a layer of air between the powdered material and the liquid spray whereby the air prevents direct contact of the liquid spray with the powdered material and said air is humidified by said liquid spray, and the powdered material takes up moisture from said air.

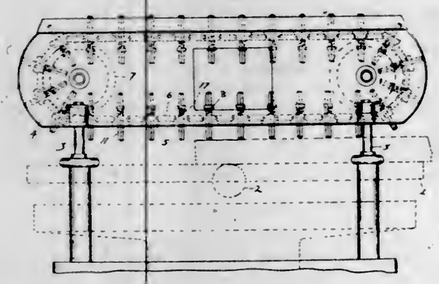
1,469,994. EXTRACT OBTAINABLE FROM THE MAMMALIAN PANCREAS OR FROM THE RELATED GLANDS IN FISHES, USEFUL IN THE TREATMENT OF DIABETES MELLITUS, AND A METHOD OF PREPARING IT. FREDERICK G. BANTING, Toronto, Ontario, and CHARLES HERBERT BEST and JAMES BERTRAM COLLIP, Edmonton, Alberta, Canada, assignors to The Governors of the University of Toronto, Toronto, Ontario, Canada. Filed Jan. 12, 1923. Serial No. 612,158. 8 Claims. (Cl. 167—7.)

3. A substance prepared from fresh pancreatic or related glands containing in concentrated form the

extractive from the ductless portion of the gland practically free from inert associated gland tissue and injurious substances and having the physiological characteristics of causing a reduction of blood sugar useful for the treatment of diabetes mellitus.

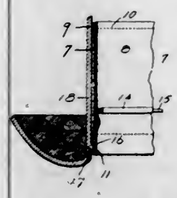
7. A method for obtaining a potent substance from the ductless portion of pancreatic or related glands in concentrated form and practically free from impurities having the hereindescribed physiological characteristics, which consists of extracting said substance from a fresh gland with a solvent capable of preserving the activity of the substance, precipitating said substance from the solution practically free from proteins and other injurious substances and making a sterile aqueous solution of said substance.

1,469,995. AUTOMATIC FEEDER FOR JOINTERS. EDGAR D. CHURCH, Saginaw, Mich., assignor to Jackson & Church Company, Saginaw, Mich., a Corporation of Michigan. Filed July 24, 1922. Serial No. 577,133. 9 Claims. (Cl. 144—242.)



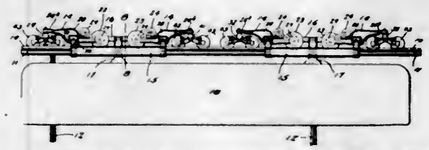
1. In a feeder for jointers, the combination with an endless carrier, of a series of fingers carried by said carrier having a plurality of points arranged in a circular arc for engagement with the work.

1,469,996. COMBINED SWEATBAND AND BANDEAU. LEON COHEN, St. Louis, Mo. Filed Feb. 1, 1922. Serial No. 533,201. 2 Claims. (Cl. 2—32.)



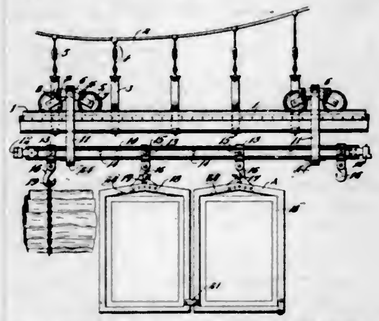
1. A combined sweat band and bandeau comprising a strip of relatively flexible material, a strip of soft textile material secured to and over-lapping the edges thereof so as to act as a binding and extending across one face, a pocket formed in said textile material intermediate the edges of the flexible strip, an elastic cord located in said pocket and projecting from each end thereof, a pocket formed in one edge of said textile material and extending the major portion of its length and located below the flexible material, a flexible metallic strip having fastening points located in said last mentioned pocket, one end of said strip projecting from said pocket and adapted to be inserted in the opposite end thereof, the ends of said flexible and textile materials adapted to overlap when the free end of the metallic strip is inserted in the pocket.

1,469,997. MONORAIL SYSTEM. FREDERICK R. CORNWALL, St. Louis, Mo.; May Bushall Cornwall, executrix of said Frederick R. Cornwall, deceased, assignor, by mesne assignments, to May B. Cornwall, St. Louis, Mo. Filed Feb. 17, 1922. Serial No. 537,329. 46 Claims. (Cl. 105—152.)



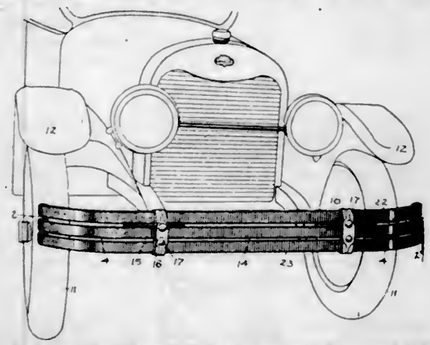
1. A monorail car truck comprising a pair of wheel members having operative pivotal interengagement, and a main frame provided with bearings for a driver wheel and having flexible operative connection with said pivotally interengaged wheel members.

1,469,998. MONORAIL CARRIER. FREDERICK R. CORNWALL, St. Louis, Mo.; May Bushall Cornwall, executrix of said Frederick R. Cornwall, deceased, assignor, by mesne assignments, to May B. Cornwall, St. Louis, Mo. Filed Nov. 15, 1922. Serial No. 601,176. 10 Claims. (Cl. 105—150.)



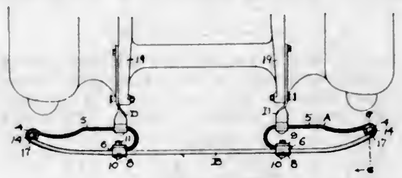
3. In a monorail system, a rail, a wheeled truck mounted thereon, a frame suspended from said truck, a plurality of load containers independently suspended from said frame, and means for uniting all of said containers to form a practically rigid car body carried by said frame.

1,469,999. RESILIENT GUARD FOR AUTOMOBILES. WILLIAM G. COX, Cleveland, Ohio, assignor, by mesne assignments, to The Eaton Axle and Spring Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 4, 1923. Serial No. 636,533. 11 Claims. (Cl. 293—55.)



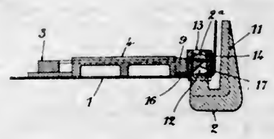
1. A resilient guard for an automobile, comprising elliptical supporting units having fending arms extending laterally therefrom, together with a main fending strip connected to said units.

1,470,000. FLEXIBLE BUMPER. WILLIAM G. COX, Cleveland, Ohio, assignor, by mesne assignments, to The Eaton Axle and Spring Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 7, 1923. Serial No. 637,224. 9 Claims. (Cl. 293—55.)



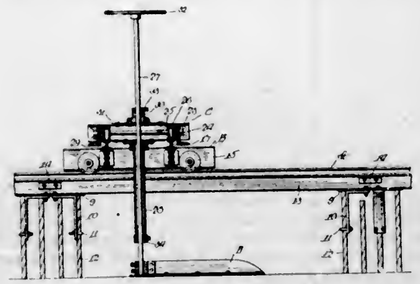
1. A flexible bumper for an automobile, comprising a main fender bar having reverted end portions secured at their extremities to the body of the bar, supplemental fender rails above and below said bar, and clamping devices uniting said bar and rails jointly together.

1,470,001. LATCH FOR DOORS OF MOTOR VEHICLES. ETIENNE BENOIT DESCOMBES, Paris, France. Filed Jan. 3, 1922. Serial No. 526,486. 2 Claims. (Cl. 292—173.)



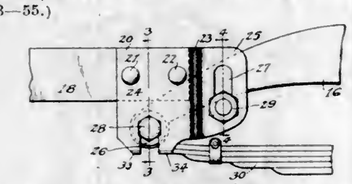
1. A latch for vehicle doors comprising in combination a lock casing, a door catch, one of said members being provided with a pyramidal recess, a pyramidal projecting part on the other member and engaging into said recess when closing the door, a lock bolt having a rectilinear movement in the lock casing in a direction at right angles to the movement of the said projecting part and a spring acting on said lock bolt, the door catch having an inclined face with which the lock bolt is adapted to engage, so as to force the said projecting part into the said recess.

1,470,002. CONCRETE-WORKING MACHINE. WILLIAM J. FITZGERALD, Beloit, Wis. Filed June 21, 1919, Serial No. 305,757. Renewed Aug. 27, 1923. 9 Claims. (Cl. 94—48.)



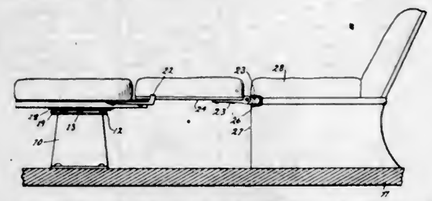
4. A concrete finishing machine having, in combination, a concrete spreading and smoothing tool mounted for rotation about a vertical axis, manual means for controlling the rotation of said tool, and means for moving said tool across the surface to be finished in contact with the concrete to spread and smooth it.

1,470,003. ATTACHING MEANS FOR AUTOMOBILE BUMPERS. FRANK GAHM, Streator, Ill., assignor of one-half to Wallace H. McCormick, Streator, Ill. Filed Nov. 30, 1921. Serial No. 518,900. 9 Claims. (Cl. 293—55.)



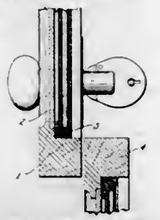
4. A device for securing a bumper to the frame of a vehicle, comprising a securing plate having its rear portion offset inwardly from the front portion, both portions being slotted, a longitudinally extending vehicle frame member having eyes adjacent its forward end, said eyes being laterally displaced from the remainder of said frame member and adapted to receive a bolt, rivets having heads extending outwardly from the side of the frame member located slightly in rear of said eyes, a bolt for holding said rear portion of the securing plate against the rivet heads of said frame member.

1,470,004. VEHICLE SEAT. FRANK GAHM, Streator, Ill. Filed June 7, 1922. Serial No. 566,590. 6 Claims. (Cl. 155—7.)



1. In a vehicle seat, the combination of a support, a plate rotatably mounted on said support to turn about a substantially vertical axis, a second plate hinged to the first plate to swing about a substantially horizontal axis and a seat bottom slidably mounted on said second plate to move backward and forward.

1,470,005. WINDOW LOCK. CHESTER A. HAGAN, New York, N. Y. Filed Jan. 19, 1922. Serial No. 530,355. 9 Claims. (Cl. 292—148.)

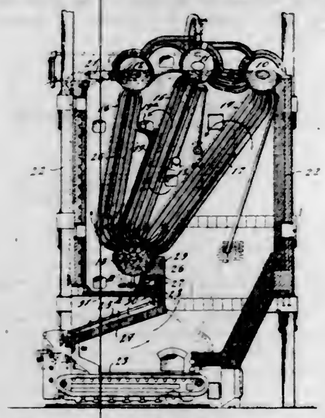


1. In a device of the class described, the combination with a pair of window frames, of a bolt movably mounted in one of said frames, and means mounted in said bolt to hold it against movement, said means being also adapted to extend into the path of the second frame to prevent its movement to a position overlying the first frame.

1,470,006. STEAM BOILER. DAVID S. JACOBUS, Jersey City, N. J., and JOHN WOLFF, East Cleveland, Ohio, assignors to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Jan. 20, 1920. Serial No. 352,678. 8 Claims. (Cl. 110—98.)

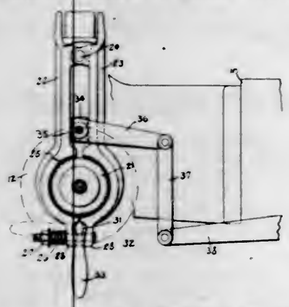
1. In a furnace for a steam boiler, an ignition arch, supporting members independent of said arch, a bridge

wall located in front of a boiler member to be protected and above said ignition arch and supported by said sup-



porting members, said bridge wall comprising an arch suspended from said supporting members.

1,470,007. FRICTION RELEASE FOR AXMINSTER LOOMS. LAWRENCE B. JENCKES, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 31, 1921. Serial No. 526,297. 5 Claims. (Cl. 139—9.)



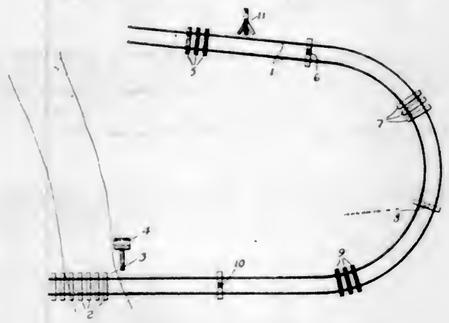
1. In a loom, a tube chain driving shaft, means to advance said shaft intermittently, a friction device for said shaft, and automatic means to release said friction as said shaft is advanced.

1,470,008. MOLDING ASPHALT. CLEMENT C. HAWKINS, Port Neches, Tex., assignor to The Texas Company, New York, N. Y., a Corporation of Texas. Filed Aug. 24, 1921. Serial No. 494,800. 2 Claims. (Cl. 18—39.)



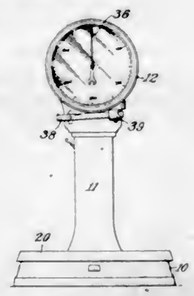
1. A barrel shaped mold comprising a circular bottom or head, a plurality of resilient staves permanently attached at their lower ends to the circular bottom or head and flaring outwardly when released at their upper ends sufficiently to permit the ready removal of a barrel shaped self-supporting body therefrom, and removable means for temporarily holding the upper ends of the resilient staves together to close the mold ready to receive the fluid material.

1,470,009. FIXED SIGNAL SYSTEM FOR PROTECTING DANGER POINTS ON RAILROADS. HARRIETTE ENSLEY HODGSON, New York, N. Y. Filed Sept. 10, 1921. Serial No. 499,716. 2 Claims. (Cl. 246—473.)



1. Means for protecting danger points along railroad rights of way, comprising signals formed by groups of ties in the roadbed of the railway differentiated for observation by the engineer in the cab of a locomotive at predetermined distances of approach to the danger point.

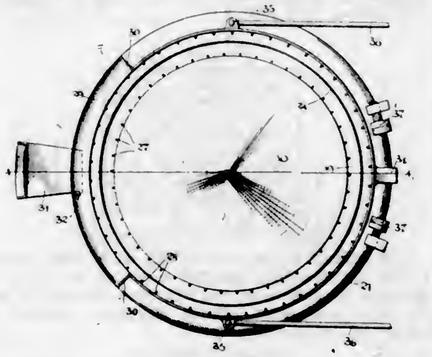
1,470,010. PORTABLE SCALE. JOSEPH HOPKINSON and EDWARD G. FREED, Dayton, Ohio, assignors to International Scale Company, Dayton, Ohio, a Corporation of Illinois. Filed Sept. 1, 1920. Serial No. 407,327. 6 Claims. (Cl. 265—69.)



1. In a scale in combination, a base lever system, a goods platform supported thereby, an intermediate lever connected to said base lever system, a thermostat for varying the leverage ratio between the base lever system and the intermediate lever, spring counterbalancing means connected to said intermediate lever and a thermostatic device forming a support for said spring.

1,470,011. PAN CONCENTRATOR. FRANK E. JOHNESSE, Boise, Idaho. Filed Mar. 30, 1922. Serial No. 548,010. 14 Claims. (Cl. 83—88.)

1. A concentrator of the pan type, including means to impart oscillatory movement to the pan, means to cause the material to stratify, and a concentrates discharge projecting radially outward and upwardly and arranged to



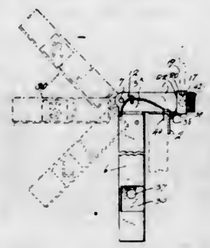
permit the escape of the concentrates under centrifugal force from the lowermost and outermost zone of the pan.

1,470,012. COUPON BOOK. GEORGE F. JONES and JOHN H. ALLISON, Indianapolis, Ind., assignors to Allison Coupon Company, Indianapolis, Ind., a Corporation. Filed Dec. 23, 1921. Serial No. 524,387. 3 Claims. (Cl. 281—18.)



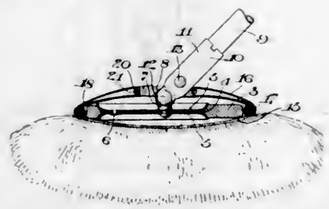
1. A sealed coupon book comprising a plurality of coupon sheets, a pair of suitable covers therefor, said book being bound at one end, and removable seal means for securing the sheets and the covers together at the other end by enveloping them.

1,470,013. SIGNAL-ARM-ACTUATING DEVICE. ARTHUR C. KEPPLER, South Bend, Ind. Filed Sept. 17, 1921. Serial No. 501,308. 3 Claims. (Cl. 116—54.)



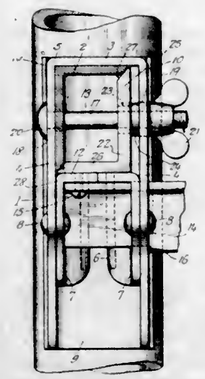
1. In a semaphore operating mechanism, a casing, a semaphore arm pivoted on the casing, an internally threaded sleeve rotatably mounted in the casing and having an operating handle for effecting rotation thereof, a longitudinally movable piston threaded into the sleeve, a curved link pivotally connected at one end within the casing, a second curved link pivotally connected with the free end of the first named link and with the arm, and a third link pivotally connected with the outer end of said piston and with the intermediate portion of the first named link.

1,470,014. MOP. WILLIAM KOOTZ and ARTHUR CARL KOOTZ, Milwaukee, Wis., assignors to The Gem Hammock and Fly Net Company, Milwaukee, Wis. a Corporation of Wisconsin. Filed Jan. 9, 1922. Serial No. 528,019. 2 Claims. (Cl. 15—228.)



1. In a mop, the combination with a mop head, of a bag fitting over the head and including a pelt forming the bottom of said bag and secured against the bottom side of said head.

1,470,015. CORNER FASTENING. FRANK KUSTERLE, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Mar. 26, 1920. Serial No. 369,053. 7 Claims. (Cl. 5—290.)



1. In a device of the class described, the combination of an angle iron and an end fastening therefor comprising a pair of abutments adapted to receive the angle iron cornerwise therebetween, a fixed member adjacent the abutment, and a locking member slidable on the fixed member transversely of the angle iron and having spaced bearings engaging the edges of the flanges of the angle iron, and threaded means for sliding the locking member along the fixed member to engage the bearings thereof against the edges of the flanges and thereby clamp the angle iron against the abutments.

1,470,016. WEIGHING SCALE. EDWARD B. LOCKE, Detroit, Mich., assignor, by mesne assignments, to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey. Filed Oct. 30, 1920. Serial No. 420,588. 2 Claims. (Cl. 74—104.)

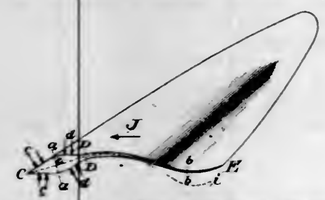
1. A support for an agate bearing comprising a body portion, said portion having integral shoulders provided

with arcuate surfaces upon which the agate rests, said surfaces being co-extensive in length with the breadth



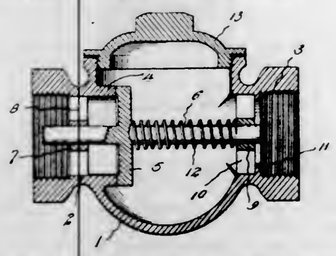
of the holder body portion, and a set screw carried by the body portion to clamp the agate against said shoulders.

1,470,017. WING FOR FLYING MACHINES. VICTOR LOUGHEED, San Francisco, Calif., assignor to Alfred J. Cleary, San Francisco, Calif. Filed Feb. 4, 1919. Serial No. 274,965. 5 Claims. (Cl. 244—12.)



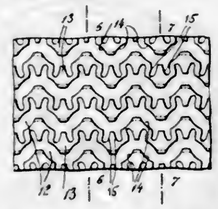
1. A flying machine wing, comprising rearwardly diverging penetration surfaces for displacing air masses, forwardly located reaction surfaces converging rearwardly from said penetration surfaces at an included angle which falls within the friction angle of the reactive thrust of said air masses, and a relatively thin rearward extension.

1,470,018. CHECK VALVE. BENSON LOVE and CLINE GAYLOR, Woolrich, Pa. Filed July 11, 1922. Serial No. 574,340. 2 Claims. (Cl. 251—144.)



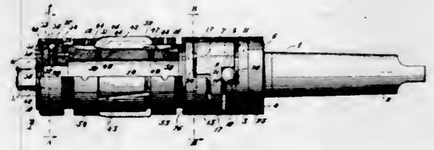
1. A check valve comprising a casing formed with inlet and outlet openings, a flange formed on the inner wall of the casing concentrically of the inlet and having its inner edge ground to provide a valve seat, a valve disk normally engaging said seat, a stem integral with said valve disk and arranged longitudinally of the casing and having one end extending into said inlet and the other end extending into said outlet, a bearing ring in said inlet for the corresponding end of said stem, a bearing ring in said outlet for the remaining end of said stem, a spring holding said disk normally in engagement with said seat, a spider within said outlet supporting said last named bearing and removable from the casing and a flange integral with the wall of said outlet against which said spider abuts.

1,470,019. SUPPORT FOR LINK-MESH FABRIC. FRED HARRIS LYNDS, North Attleboro, Mass., assignor to Whiting & Davis Company, a Corporation of Massachusetts. Filed June 17, 1921. Serial No. 478,236. 12 Claims. (Cl. 140—3.)



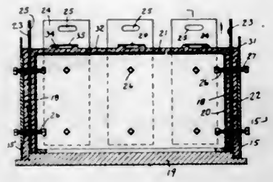
1. A support for a piece of link mesh fabric having a face for receiving the link mesh which is cut to simulate the surface of the link mesh thereby to grip the latter and resist relative movement between the fabric and the support.

1,470,020. FLOATING REAMER. ALBERT A. MARTELL, Woonsocket, R. I., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I., a Corporation of Rhode Island. Filed May 20, 1918. Serial No. 235,502. 19 Claims. (Cl. 77—72.)



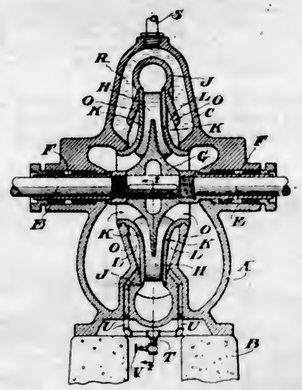
1. In a reamer, the combination of a reamer shaft, a reamer blade carrying body mounted upon said reamer shaft, said body being provided with a cylindrical opening having a diameter larger than the diameter of the reamer shaft which extends through said opening whereby said body is movable laterally on the said reamer shaft, means to prevent longitudinal movement of said reamer body on said shaft and to maintain the axis of said reamer body parallel to the axis of the reamer shaft, said means also comprising a driving connection between said reamer shaft and said reamer body, and adapted to sustain both thrust and torsion.

1,470,021. PROCESS OF FORMING RECEPTACLES. CHARLES MATTHEW MAYO, Indianapolis, Ind. Filed Jan. 26, 1923. Serial No. 615,025. 4 Claims. (Cl. 25—130)



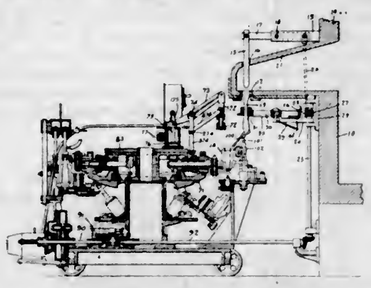
1. The process of forming a receptacle having a plurality of inter-communicating chambers formed in the walls thereof, consisting of mounting an inner form within and spaced from an outer form, filling the space between said forms with a plastic material, embedding therein a core plate adapted to be pulled therefrom leaving the desired chamber formed therein, and screwing into said forms means for spacing said plate therefrom.

1,470,022. CENTRIFUGAL PUMP. JAMES K. MCINTYRE, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 29, 1922. Serial No. 547,731. 3 Claims. (Cl. 103—1.)



1. A centrifugal pump comprising a main outer casing, an inlet chamber in said casing for a heating medium an impeller and stationary shrouds fitted into said main casing and forming a heating jacket between the casing and the shrouds and means for introducing a heating medium into said heating jacket for externally heating said impeller and stationary shrouds for the purpose of heating the material pumped and especially to heat the inner faces of the stationary shrouds in order to reduce surface friction.

1,470,023. GLASS-FEEDING MECHANISM. EDWARD MILLER, Columbus, Ohio, assignor to Chapman J. Root, Terre Haute, Ind. Filed Dec. 12, 1921. Serial No. 521,735. 15 Claims. (Cl. 49—5.)



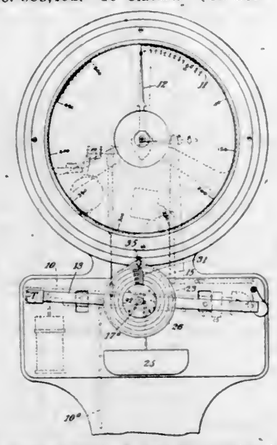
14. The combination with the discharge spout of a glass tank having an outlet opening, of a mould adapted to be located at a lower level than the spout but not in vertical alignment with the opening thereof, means held stationary with relation to the mold for receiving the charge of glass and guiding it to the mold, and means for controlling the movement of the glass from the spout to said glass receiving and guiding means including a member having an opening through which the glass is adapted to flow, a knife for severing the glass, a shear arm mounted below the spout under the discharge opening from the spout, means for reciprocably mounting the knife on the underside of said shear arm in position to sever the glass and temporarily close the bottom of the opening through the shear arm to form a cup for temporarily supporting the unsevered portion of the glass, and means for elevating the shear arm after the glass has been severed.

1,470,024. METHOD OF PREPARING AN EXTRACT, OBTAINABLE FROM THE MAMMALIAN PANCREAS OR FROM THE RELATED GLANDS OF FISHES, USEFUL IN THE TREATMENT OF DIABETES MELLITUS. PETER JOSEPH MOLONEY and DONALD M. FINDLAY, Toronto, Ontario, Canada, assignors to the Governors of The University of Toronto, Toronto, Ontario, Canada. Filed Jan. 12, 1923. Serial No. 612,157. 14 Claims. (Cl. 167—7.)

2. A method for obtaining a potent substance from the ductless portion of pancreatic or related glands in concentrated form and sufficiently free from impurities for repeated administration to patients having the herein described physiological characteristics which consists of extracting said substance from the gland with a solvent, concentrating it with a reagent which will unite with it as by absorption, and separating said substance and reagent.

13. A method for obtaining a potent substance from the ductless portion of pancreatic or related glands in concentrated form and sufficiently free from impurities for repeated administration to patients having the hereindescribed physiological characteristics which consists of extracting said substance from the gland with a solvent, separating the substance from the solution with ammonium sulphate, dissolving the ammonium sulphate from said substance, concentrating said substance with benzoic acid, and separating said substance from the benzoic acid.

1,470,025. COUNTING DEVICE FOR SCALES. LOUIS A. OSGOOD, Dayton, and ELMER E. WOLF, Springfield, Ohio, assignors to International Scale Company, Dayton, Ohio, a Corporation of Illinois. Filed Jan. 31, 1920. Serial No. 355,452. 19 Claims. (Cl. 265—30.)

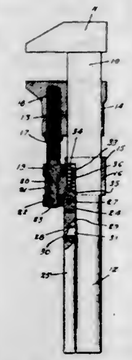


1. In a counting scale in which counting is effected by shifting a counterbalanced receiver containing a predetermined number of articles to a position to oppose and counterbalance the load of the articles to be counted, in combination a receiver, a count indicating device including a dial element and a pointer element, one of which elements is movable relatively to the other element, means for moving the movable element in unison with the movement of the receiver, and means for displaying a gross count representing accumulated totals of one or more complete dial counts when the capacity of the aforesaid dial is exceeded.

1,470,026. WRENCH. JAMES E. OWEN, Edgeley, N. Dak., assignor of one-third to L. C. Devner and one-third to J. M. Silverstein, both of St. Paul, Minn. Filed May 5, 1922. Serial No. 558,666. 7 Claims. (Cl. 81—87.)

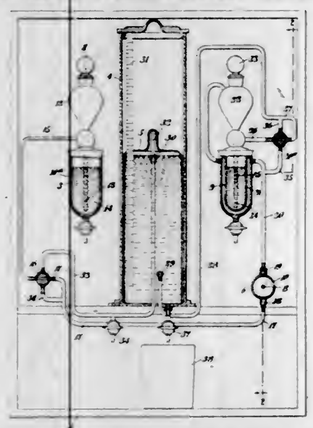
1. A wrench comprising a shank, a fixed jaw secured thereto, a movable jaw mounted upon said shank, a mov-

able head mounted on said shank adjacent said jaw, adjusting means positioned between said movable head and said movable jaw, a lever pivoted to said movable head, said lever having an opening extending through the same



formed with a shoulder and a lug having a cam face issuing outwardly from said shank and adapted to engage said shoulder to force said head and jaw inwardly upon movement of said lever.

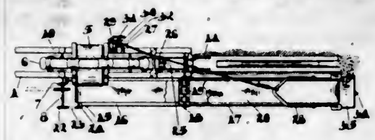
1,470,027. METHOD AND APPARATUS FOR ABSORBING RADIUM EMANATION. HARRY B. PALMER, Morristown, N. J. Filed Mar. 9, 1920, Serial No. 364,446. Renewed Mar. 1, 1923. 10 Claims. (Cl. 174—177.)



1. The process of absorbing radio active emanations from radio active matter, which comprises dissolving the radio active matter, passing a gas through a column of a solution of caustic alkali to remove carbon dioxide from said gas, passing the purified gas through a column of the radio active solution and then passing said gas through a column of water to absorb the emanation from said gas.

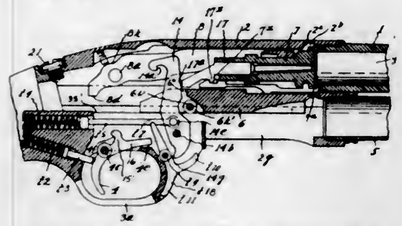
1,470,028. DITCHING APPARATUS. CALVIN S. PARKER, London, Ontario, Canada. Filed Oct. 23, 1922. Serial No. 596,338. 5 Claims. (Cl. 37—96.)

1. In a ditching machine, the combination of a frame; ditch digging and soil elevating apparatus carried thereby; means for discharging the dug soil laterally; a trench bottom shoe; a standard rigidly supporting the shoe from the frame; a rearwardly extending back-filler conveyor frame having its forward part connected to one side of the frame; a post extending up from the standard aforesaid; a stay connected to the rear end of the conveyor frame extending over the post and connected at its forward end



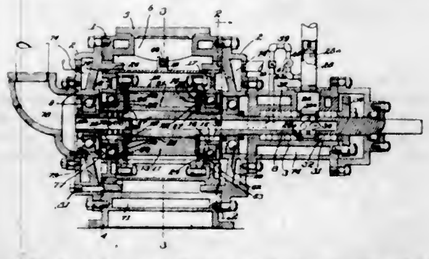
to the frame; and a suitably driven endless belt carried by the said conveyor frame adapted to receive the laterally discharged soil and convey it rearwardly.

1,470,029. FIREARM. JOHN D. PEDERSEN, Jackson, Wyo. Filed Sept. 18, 1919. Serial No. 324,402. 11 Claims. (Cl. 42—16.)



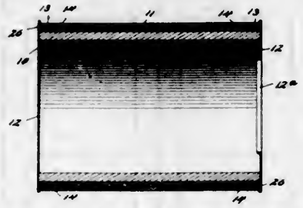
1. In a breech-loading firearm, in combination, a frame having a wall provided with a bolt-engaging abutment face; a combined block and bolt mechanism comprising a non-turning bolt-carrying block supported for reciprocation forwardly to and rearwardly from a firing position in the frame, and a bolt rotatable around a firing pin which is reciprocable in the bolt, said bolt being mounted on the block for forward and rearward movements to and from a firing position relatively to the block and provided with a locking face for engaging said frame abutment face; bolt-rotative means coactive between the block and bolt and arranged for retractively rotating the bolt out of frame-abutment-locking-face engagement on a rearward movement of the block from its firing position; and means appurtenant to the block and firing pin arranged for preventing rotation of the firing pin during a rotative movement of the bolt relative to the block, whereby said retractive rotation of the bolt operates to retract the firing pin to an ineffective position in advance of unlocking the bolt from the frame.

1,470,030. ROTARY COMPRESSOR. WALTER G. E. ROLAFF, Belleville, Ill. Filed Dec. 19, 1919. Serial No. 345,935. 18 Claims. (Cl. 230—30.)



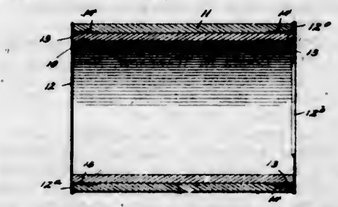
1. In a fluid compressing apparatus, the combination of a cylinder-shell, a rotary drum eccentrically mounted in the shell, and co-operating therewith to form a compression chamber, relief heads disposed against the ends of the drum and shell, and constituting the end walls of the compression chamber, and means for admitting the fluid pressure to the outer sides of the relief heads to hold the same against the ends of the cylinder and drum.

1,470,031. CONTAINER. WILLIAM H. ROSE, Jersey City, N. J. Filed July 18, 1922. Serial No. 575,798. 5 Claims. (Cl. 229—55.)



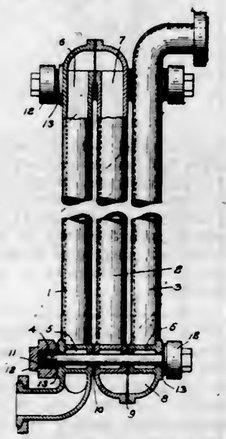
1. The method of forming a container having a heavy inner wall and a heavy outer wall and simultaneously securing a closure to the same which consists in wrapping a plurality of layers of paper material around a heavy tube of paper material and over a flange on the closure extending around and closely fitting the outer surface of said tube.

1,470,032. CONTAINER. WILLIAM H. ROSE, Jersey City, N. J. Filed July 18, 1922. Serial No. 575,799. 8 Claims. (Cl. 229—55.)



1. A container having a cylindrical body formed of a heavy inner tube of paper material and a heavy outer tube of paper material surrounding and closely fitting the inner tube, a metallic closure for said container having a flange positioned between said tubes, said flange having a series of outwardly projecting prongs adapted to engage and embed themselves in the inner surface of said outer tube.

1,470,033. RADIATOR. PIERCE D. SCHENCK, Dayton, Ohio, assignor to The Duriron Company Inc., a Corporation of New York. Filed May 6, 1921. Serial No. 467,309. 2 Claims. (Cl. 257—151.)



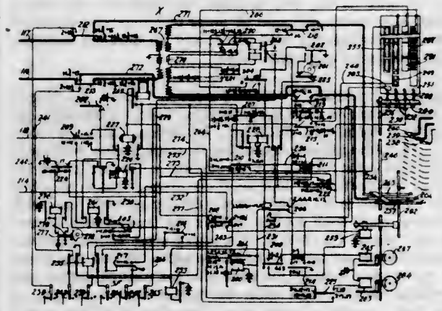
2. In combination in a radiator, a plurality of hollow parallel cast sections of non-corrosive metal with lateral openings in the ends so as to form a continuous passage when the sections are fitted together, and each provided with transverse perforations lying to one side of said lateral openings in the ends and adapted to aline and provide tie rod passages when the sections are fitted together, packing means between the sections around the openings in said ends and around the ends of the perforations adapted to seal off the radiator passage from the tie rod passages, tie rods of wrought metal extending through said passages for clamping the sections together, and nut members protected by non-corrosive material for engaging the ends of the tie rods and forming closures for the ends of said tie rod passages.

1,470,034. METHOD OF MAKING POPPET VALVES. ARTHUR A. SCHUPP, Saginaw, Mich., assignor to Wilcox Motor & Manufacturing Co., Saginaw, Mich., a Corporation of Michigan. Filed Jan. 24, 1921. Serial No. 439,473. 2 Claims. (Cl. 123—188.)



1. The method of welding valve stems to valve heads, which comprises forming the stem with an enlarged tapered end, forming in the head a tapered aperture to receive and closely fit the tapered part of said stem, assembling the stem and head with the outer end of the stem projecting beyond the face of the head to form an electric contact member, and finally fluxing the contiguous surfaces only of said head and stem by electric welding while simultaneously applying pressure to the end of said stem.

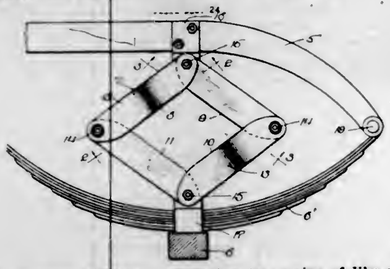
1,470,035. TELEPHONE-EXCHANGE SYSTEM. FREDERICK J. SCUDDER, Long Island, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 31, 1921. Serial No. 457,253. 8 Claims. (Cl. 179—10.)



1. In a telephone exchange system, incoming and outgoing lines, a link circuit to be used in interconnecting said lines, an auxiliary switch associated with said link

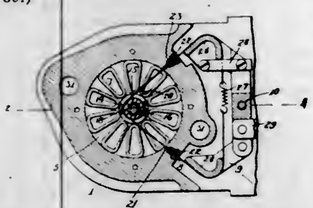
circuit, a repeating coil associated with said link circuit, a primary winding and a secondary winding for said repeating coil, said secondary winding comprising a plurality of sectional windings, said sectional windings terminating in contacts controlled by said auxiliary switch, and means to position said auxiliary switch to connect in any desired number of said sectional windings to produce any desired ratio of turns between said primary winding and said secondary winding.

1,470,036. SHOCK ABSORBER FOR VEHICLES. JACK MINER STONER, Chicago, Ill., assignor of one-half to Thomas K. Stoner, Chicago, Ill. Filed Dec. 24, 1921. Serial No. 524,736. 2 Claims. (Cl. 267—9.)



1. A shock absorber comprising two pairs of like members, one member of a pair of like members comprising two overlying flat spring plates, curved inwardly toward each other; each of the other members comprising a wedge-shape plate, the latter members having their ends pivoted to the respective ends of the other members and between the plates thereof, thereby forming a parallelogram whereby resistance to movement of two members toward and from the other two members, in both directions, is imparted.

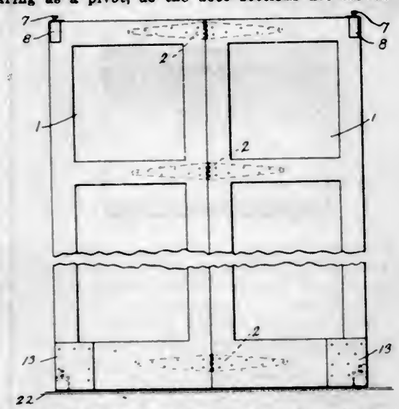
1,470,037. VALVE. WARNER T. TABB, Brooklyn, N. Y., assignor to Duplex Engine Governor Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Mar. 18, 1920. Serial No. 367,012. 14 Claims. (Cl. 137—139.)



2. A seat having one or more openings and carrying a pivot, a valve having one or more openings and provided with a hub engaging said pivot, and an element engaging said hub to actuate said valve.

1,470,038. DOOR CONSTRUCTION. CARL D. VANCE and FORREST G. BOWMAN, Dayton, Ohio. Filed Jan. 20, 1922. Serial No. 530,713. 3 Claims. (Cl. 20—20.)

1. In folding doors, including in combination with suitable head construction for the doors, a door unit consisting of a plurality of door sections hinged one to another, and adapted to be folded substantially parallel one with another, each door section having its lower inner corner, as the doors are folded, cut away and re-inforced, by metal plates secured to opposite sides of the door, one of the plates having an edge thereof turned under and overlapping the lower edge of the cut away portion of the door, the other plate being flared outwardly opposite said cut away portion, a wheel disposed in said cut away portion and having a bearing reinforced by the overlapping edge of the first named plate, the door section being supported on said wheel and adapted to turn on said bearing as a pivot, as the door sections are moved into

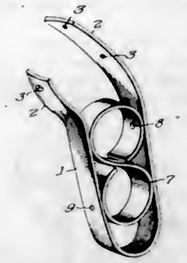


said parallel relation, a track adapted to support the door sections from beneath and over which said wheels are adapted to travel as the doors are operated.

1,470,039. PROCESS OF MAKING 2-3 OXY-NAPHTHOIC ACID. ROGER N. WALLACH, New York, N. Y., assignor to The Grasselli Chemical Company, a Corporation of Ohio. Filed July 19, 1922. Serial No. 576,118. 3 Claims. (Cl. 260—40.)

3. Process of preparing 2-3 oxy-naphthoic acid, comprising dissolving anhydrous alkali beta-naphtholate in beta-naphthol, and subjecting the resulting solution to the action of carbon dioxid at a temperature approximating 200–300° C., under a pressure above 200 pounds per square inch.

1,470,040. ATTACHABLE GRIP HANDLE. LEO S. WHITEHEAD, Akron, Ohio. Filed Aug. 21, 1922. Serial No. 583,162. 6 Claims. (Cl. 145—61.)

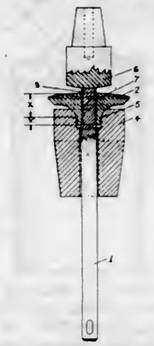


1. An attachment adapted to be received over and attached to a bulbed tool handle comprising a strap of metal bent at approximately its central point providing two substantially parallel arms which are curved at their outer ends in a direction at an angle to the remainder of the handle and of such formation as to be received over the tool handle and adapted to be secured thereto, whereby a straight handled tool may be converted to a tool having a pistol grip.

1,470,041. METHOD OF MAKING POPPET VALVES. MERRILL M. WILCOX, Saginaw, Mich., assignor to Wilcox Motor Parts & Manufacturing Co., Saginaw, Mich., a Corporation of Michigan. Filed Jan. 11, 1921. Serial No. 436,415. 3 Claims. (Cl. 29—156.7.)

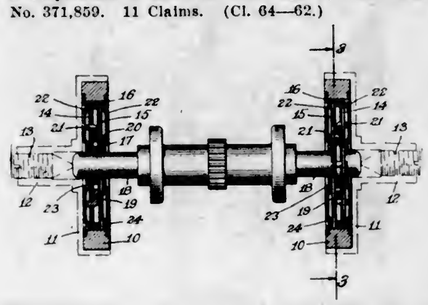
1. The herein described method of making poppet valves, said method consisting in forming screw threads on the valve stem and in the bore of the head, screwing the head upon the stem and uniting said head and stem

by welding, whereby the surface metal of some of the threads of said head and stem is brought to a welding



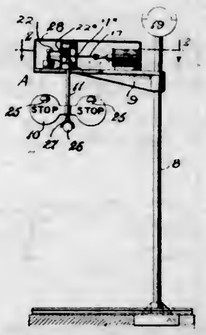
heat, said threads preventing relative lengthwise movement of said stem and head during the welding operation.

1,470,042. DISK BEARING FOR SCALES AND OTHER MECHANISMS. ELMER E. WOLF, Springfield, Ohio, assignor to International Scale Company, Dayton, Ohio, a Corporation of Illinois. Filed Apr. 7, 1920. Serial No. 371,859. 11 Claims. (Cl. 64—62.)



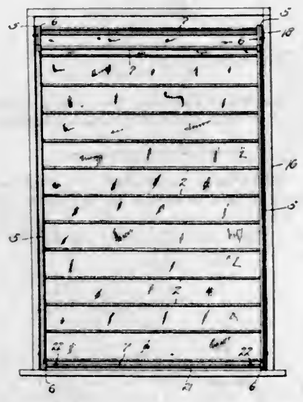
1. In a bearing of the type described, in combination, an outer circular carrier, inner and outer spacing rings inside of the carrier, a plurality of series of bearing disks on opposite sides of the spacing rings, and cover plates closing the sides of the carrier and contacting with said disks only at the peripheries thereof.

1,470,043. RAILWAY-CROSSING SIGNAL. CHARLES ADLER, Jr., Baltimore, Md. Filed Sept. 29, 1920. Serial No. 413,533. 4 Claims. (Cl. 177—329.)



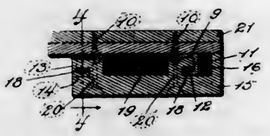
1. A crossing signal comprising a support, a rotatable shaft depending therefrom and provided with a signal arm adjacent its lower end, a chamber enclosing the upper end of said shaft, bearings for said shaft at separated points in said chamber, means for rotating said shaft, and a housing covering said chamber and said shaft operating means.

1,470,044. VENTILATING WINDOW SHADE. VICTOR M. ALLEN, Waverly, N. Y. Filed Aug. 14, 1920, Serial No. 403,569. Renewed Mar. 6, 1923. 4 Claims. (Cl. 156—17.)



3. A ventilating window shade comprising pairs of vertical bars, links extending between corresponding ends of the bars of each pair of bars, the bars having seats in their outer sides, pivot rods inserted transversely through the meeting ends of the links and the bars, said rods being each provided at one end with a head fitting in one of the seats in one of the bars, and a headed nut engaging over the opposite end of the rod and fitting in the adjacent seat in the bar.

1,470,045. RUBBER HEEL. FRANK J. ALTENKIRK, St. Louis, Mo. Filed July 20, 1920. Serial No. 397,726. 1 Claim. (Cl. 36—36.)

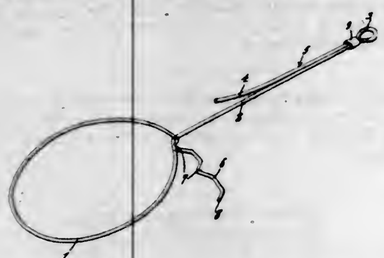


The improvement in rubber heels comprising a heel-holding plate having a single rear finger with a forwardly-projecting flange, and two front fingers having rearwardly-projecting flanges; and a heel having recesses to engage said fingers and a cavity in its upper face, and reinforcing metallic plates imbedded in said heel above its points of contact with said teeth, substantially as described.

1,470,046. COW-TAIL HOLDER. WILLIAM M. ANDERSON, Boyceville, Wis. Filed July 22, 1922. Serial No. 576,900. 2 Claims. (Cl. 119—105.)

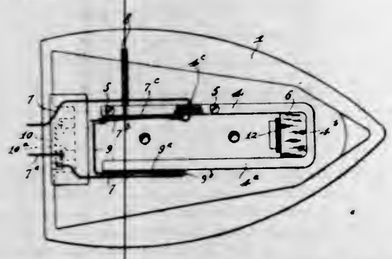
1. A cow tail holder comprising a single piece of spring wire bent intermediate its ends to form a leg encircling open loop with a latch member at one end of said loop and with its other end extended laterally substantially at right angles to said loop and adapted to be

engaged by said latch, said lateral end being extended and bent to form a hand grip with the terminal arranged



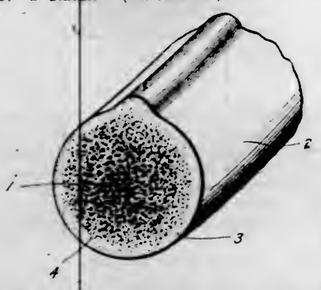
to form a cooperating clamping jaw, and a slide connecting said jaws to vary their clamping engagement.

1,470,047. ELECTRIC SADIRON. SATTERLEE T. ARNOLD, Paducah, Ky., assignor to Southern Textile Machinery Company, Paducah, Ky., a Corporation of Kentucky. Filed Apr. 25, 1921. Serial No. 464,266. 7 Claims. (Cl. 219—25.)



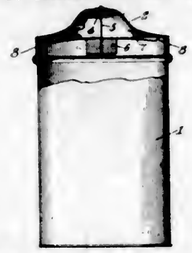
3. In an electric iron, a body provided with a resistance unit, a U-shaped controller above the latter embodying a relatively fixed arm provided with a movable contact element and a relatively movable arm provided with a cooperative contact element, means on said fixed arm for adjusting said movable contact element, and a thermostat in cooperative relation to said resistance unit and said movable arm.

1,470,048. RUBBER-TIRE CORE. THOMAS J. BARKER, Kansas City, Mo. Filed Aug. 11, 1920. Serial No. 402,839. 2 Claims. (Cl. 152—5.)



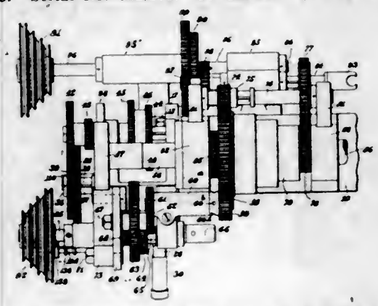
2. As a new article of manufacture, a core for tires consisting of an integral, circular ring having gas cells therein, the gas cells near the center of the core being considerably larger than the gas cells adjacent to the perimeter of the core so that the center of the core has greater resiliency than the portion adjacent to the perimeter.

1,470,049. RECEPTACLE. ROBERT Y. BARROWS, Rutherford, N. J., assignor to Robert Y. Barrows, Inc., a Corporation of New York. Filed Apr. 20, 1922. Serial No. 555,753. 10 Claims. (Cl. 221—61.)



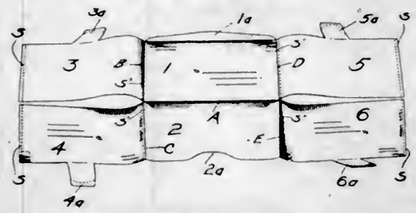
1. A receptacle having a discharge opening, a valve normally closing said opening but adapted to open the same upon shaking the receptacle, and resilient means acting to hold said valve to close said opening irrespective of the position of the receptacle when the receptacle is stationary.

1,470,050. SPEED-CHANGING MECHANISM. BERNARD A. BEHREND, Brookline, Mass. Filed Apr. 18, 1923. Serial No. 632,879. 37 Claims. (Cl. 74—57.)



2. The combination of a gear box; a revoluble shaft therein having a socket in one end; a feed rod having an end thereof locked in said socket; a plurality of gears of different diameters keyed to said shaft; a second shaft parallel to said revoluble shaft; a gear keyed to said second shaft and slidable lengthwise thereof; an oscillating arm movable about the axis of said second shaft and slidable with said slidable gear; an intermediate gear on said arm for transmitting rotary movement from said slidable gear to either of said plurality of gears on the revoluble shaft; a spindle; and a train of gears between said spindle and said second shaft to impart rotary movement thereto.

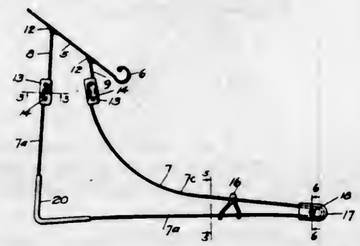
1,470,051. FORWARDING ENVELOPE. ALLEN B. ASHBY, Bonners Ferry, Idaho. Filed May 2, 1921. Serial No. 466,113. 3 Claims. (Cl. 229—73.)



2. A forwarding envelope comprising a single sheet fashioned with a pair of folded leaves sealed at their ends and forming the front and back of an envelope

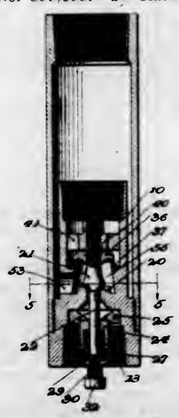
and a sealing flap on one of said leaves, a separable address leaf folded over the front leaf and attached thereto, and a securing tab on said separable leaf adapted to bend over the top edges of said leaves and be attached to the back of the envelope.

1,470,052. BOOKREST. WILLIAM L. BLAIR, Chicago, Ill. Filed July 29, 1922. Serial No. 578,297. 5 Claims. (Cl. 45—80.)



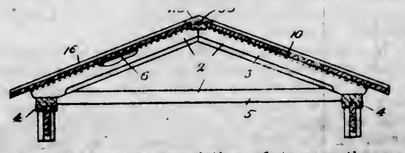
3. A reading desk of the character described, comprising a book rest, a frame supporting the rest in a slanting position and including a pair of elongated wire feet which project forwardly of the same and are composed of diverging, interconnected parts, and sliding links on said parts, adapted to adjust their angle of divergence whereby to vary the slant of the book rest.

1,470,053. FLOWING DEVICE FOR OIL WELLS. ALEXANDER BOYNTON, San Antonio, Tex. Filed Nov. 8, 1922. Serial No. 599,695. 15 Claims. (Cl. 166—3.)



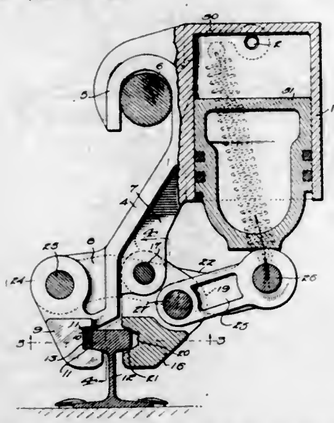
1. The combination of a casing, a tubing extending through the casing, and a separator pipe connected to the tubing and having communication with the same and the casing.

1,470,054. ROOF STRUCTURE. WALTER C. BROUGHTON, Kansas City, Mo. Filed Mar. 22, 1922. Serial No. 545,714. 3 Claims. (Cl. 108—1.)



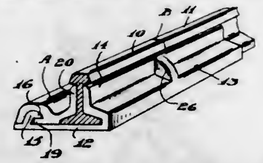
1. A roof structure consisting of trusses the upper members of which have gutters formed therein, roof slabs supported by the trusses and provided with marginal flanges extending into the gutters, ridge members supported by the trusses and provided with longitudinal grooves to receive the upper margins of the roof slabs, and means for reinforcing and connecting said ridge members together.

1,470,055. RAIL CLAMP. ROBERT S. BUTLER, Joplin, Mo. Filed May 19, 1922. Serial No. 562,208. 6 Claims. (Cl. 188—43.)



6. A rail clamp comprising a cylinder, an arm extending therefrom, a fixed jaw carried by said arm, a movable jaw pivoted thereon, and a piston in said cylinder adapted to force said movable jaw to locked position.

1,470,056. RAIL-JOINT-LOCKING DEVICE. CARL LOUIS CALLIES, Wetaskiwin, Alberta, Canada. Filed Oct. 3, 1922. Serial No. 592,182. 1 Claim. (Cl. 238—198.)

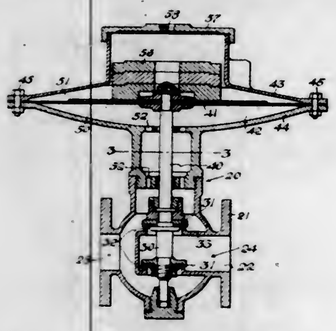


A rail locking device comprising a plate, having an offset extension on one side, an upright flange integral with the offset extension designed to bear against one side of the rail, a plurality of pegs formed on the upright flange designed to enter suitable orifices in the rail webs, a rib on the edge remote to the extension having slanting relation to the longitudinal edge of the plate, and being formed with a nose 16 spaced from the plate, a retaining member slidably mounted on the rib formed with a longitudinal recess designed to house the rib and provided with a longitudinal rib to engage the aforesaid nose 16, said retaining member being further formed with an upright flange extending parallel to the rail web and designed to be gradually forced into bearing engagement therewith, by a sliding movement of the retaining member along the rib, a locking element comprising a peg 23, with a longitudinally extending portion designed to extend through a suitable oblique orifice in the side wall of the retaining member.

1,470,057. VALVE. LESTER L. CARTER, Palo Alto, Calif. Filed Nov. 24, 1920. Serial No. 426,194. 1 Claim. (Cl. 137—53.)

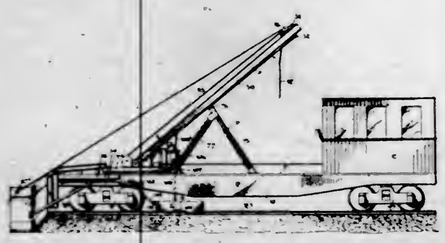
A gas valve comprising: walls forming a central chamber; walls forming a valve chamber within said first

named chamber with which it communicates through two valve openings, each concentric with the axis of the valve, one of said openings being situated directly above the other; a valve stem sliding vertically on the axis of said valve and passing through said valve openings; rubber discs carried on said valve stem so that they can each be seated on the upper edge of one of said valve openings to close said opening, walls forming an intermediate chamber directly above and in open communication with said



central chamber; walls forming a diaphragm chamber directly above said intermediate chamber; said diaphragm chamber having an upper and a lower portion, the upper portion being in open communication with the atmosphere; a diaphragm therein and adjustable weights carried on the top of said diaphragm, said valve stem being connected to said diaphragm and passing through openings in the walls forming said intermediate chamber which openings form an extended guide for said stem.

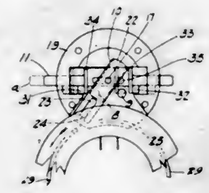
1,470,058. BALLAST-DRESSING MACHINE. SOLON FRANCIS CLAPP, Temple, Tex. Filed Aug. 4, 1922. Serial No. 579,678. 20 Claims. (Cl. 37—104.)



1. A ballast dressing apparatus comprising a running gear adapted to move upon the rails of a railroad, a plate carried by said running gear and extending transversely to said rails, the lower edge of said plate being disposed beneath the level of the upper edge of said rails, said plate having a recess adjacent each side adapted to accommodate either of said rails, and an annular wing carried upon each end of said plate, each wing comprising an inner section and an outer section disposed at angles to each other.

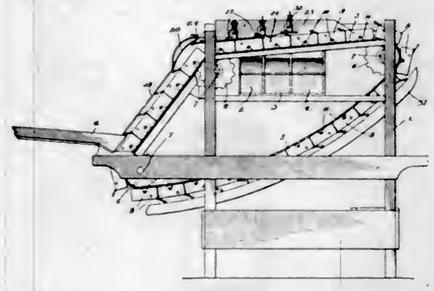
1,470,059. ELECTRIC SWITCH. WILLIAM D. COLLINS, Pasadena, Calif., and GEORGE W. H. ALLEN, Cazenovia, N. Y. Filed May 6, 1920. Serial No. 379,230. 2 Claims. (Cl. 200—59.)

1. The combination with the steering gear of a vehicle, of means including a forked member operatable to different positions to close different electric circuits, a finger connected with the steering gear and engaging the fork when the steering gear is in the straight ahead position, said finger disengaging the fork when the steering gear is operated a predetermined extent to effect turning of the vehicle to one side or the other, manually operable



means to close either of said circuits in advance of the operation of the steering gear and operatable to circuit-opening position by movement of the forked member to either circuit-opening position.

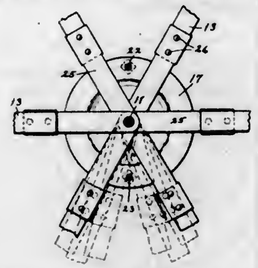
1,470,060. GRADING MACHINE. WILLIAM A. CONTANT, Rochester, N. Y., assignor to F. B. Pense Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 11, 1922. Serial No. 606,052. 2 Claims. (Cl. 130—32.)



1. In a grader, the combination with an endless carrier formed with rigid transversely extending members and movable transversely extending members providing with said rigid transversely extending members grading spaces, and arms secured to said movable members to control the movement of said movable members relatively to the rigid members, of wheels about which said endless carrier is guided to provide an inclined receiving portion and a grading portion on a trackway for controlling the movement of the arms while the movable members are passing the grading portion, a trackway for holding said arms against movement while the movable members are passing the receiving portion, and a yielding trackway portion adjacent the junction of the receiving and grading portion for cooperating with the arms as the movable members move from the receiving portion onto the grading portion to hold the movable members against movement relatively to the rigid members.

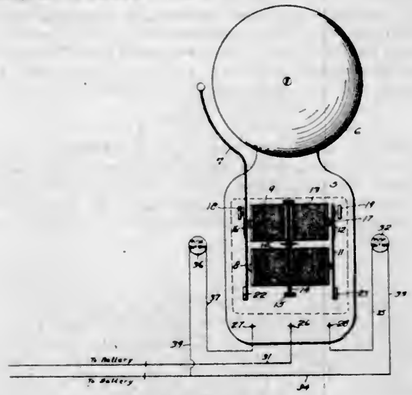
1,470,061. FOLDING BINDER REEL. FRED E. COULTER, Stratford, Iowa. Filed Apr. 7, 1922. Serial No. 550,500. 2 Claims. (Cl. 56—220.)

1. In a binder reel, a shaft, a plurality of arms each pivotally mounted on said shaft and adapted to carry reel slats, a disk secured to said shaft, said disk being formed with a plurality of shoulders each adapted to engage one of said arms, and a clamping plate loosely mounted on the shaft and adapted to be drawn into clamping engagement with the first disk and clamp said arms between them, said disks being cupped in their central portions to provide space for the overlapping ends of said arms, said arms being adapted to be moved



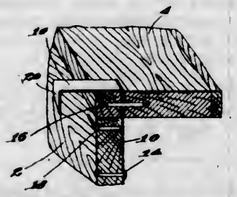
manually circumferentially of said shaft upon release of the clamping engagement, for collapsing said reel.

1,470,062. COMBINED BELL AND BUZZER. JOHN W. COX, Baraboo, Wis. Filed June 25, 1921. Serial No. 480,343. 2 Claims. (Cl. 177—7.)



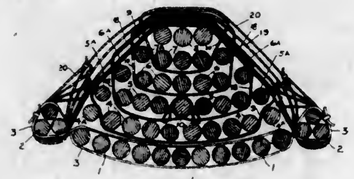
1. A combined bell and buzzer comprising a supporting frame, a centrally disposed insulating strip mounted upon edge upon said frame, independent magnets supported upon and projecting from the opposite sides of said strip, a bell supported from said frame, a hammer carrying armature coacting with one set of magnets and a buzzer armature coacting with the other set of magnets.

1,470,063. REENFORCED AND SAFETY SEALED-BOX CONSTRUCTION AND METHOD OF MANUFACTURING. BENJAMIN HOWARD DAVIS, Boston, Mass. Filed Nov. 25, 1921. Serial No. 517,638. 9 Claims. (Cl. 27—66.)



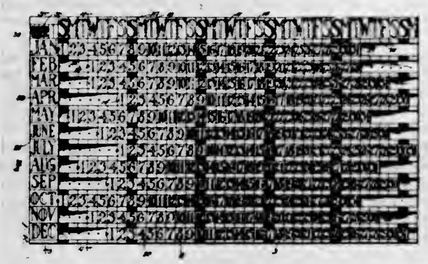
1. The improved method of box construction which consists in extending a reenforcing metallic strap through a portion of the box, adjacent a corner, bending said metallic strap around the edge of the box and securing said strap on both the interior and exterior of the box.

1,470,064. LOG RAFT. GILBERT G. DAVIS and MATTHEW J. DAVIS, Vancouver, British Columbia, Canada. Filed Mar. 20, 1923. Serial No. 626,355. 7 Claims. (Cl. 9—15.)



1. In a log raft, a raft floor having side booms to which the floor is connected, logs arranged in tiers upon the floor, binding ropes underlying the tiers the ends of which pass over the top of the raft and are secured to the side booms.

1,470,065. PERPETUAL CALENDAR. LEE H. DOWNER, Hopewell, Va. Filed Aug. 3, 1922. Serial No. 579,427. 3 Claims. (Cl. 40—107.)



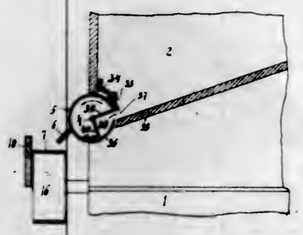
1. A calendar comprising a body member provided at one face with a series of parallel channels, month indicating means at one end of the channels, month-date bearing panels slidably adjustably mounted in the channels, the panels and the body member being provided with openings adapted to be brought into registration in the adjustment of the panels, and a securing element removably fitted through the registering openings.

1,470,066. CHARACTER-TRANSFER DEVICE. GERALD DUMARS, New York, N. Y., assignor of one-half to Paul Wing, Westport, Conn. Filed Dec. 5, 1921. Serial No. 519,892. 7 Claims. (Cl. 41—25.)



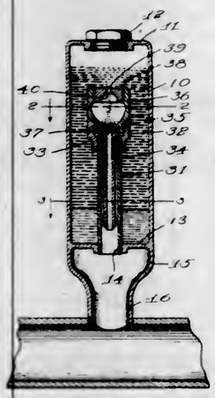
2. A device of the class described, comprising a transparent pattern-sheet having formed thereon characters in positive relation as seen from the front-face of said sheet, the said characters being adapted to be transferred to a subjacent surface by pressure from the front-face of said sheet, and guide-lines on said transparent pattern-sheet, adjacent said characters on said sheet for positioning said characters in alignment in transferring the same, the transparency of said pattern-sheet serving as means for enabling the operator to correctly position said pattern-sheet on said transfer-surface in order to transfer a character of said sheet to a desired or selected place on said transfer-surface.

1,470,067. MACHINE FOR PLANTING CUTTINGS. JOAN J. M. ELIAS, Banjoemas, Java. Filed Dec. 12, 1922. Serial No. 606,468. 1 Claim. (Cl. 221—118.)



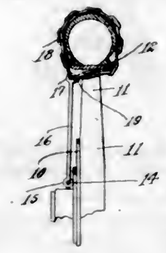
A machine for planting two rows of cuttings, simultaneously more particularly for planting sugar-cane-cuttings or suckers comprising a container mounted upon a motor-carriage-frame, divided by two longitudinal- and a great number of cross- partition-walls into a number of compartments, the bottom of each compartment being inclined towards the outer-bottom-corner, in which corner the outer-wall of the container is partly broken away in order to let partly pass a drum mounted on a rotary shaft, which extends through all the compartments situated at the same side of the container, each drum being provided with a chamber into which the cuttings piled up in the compartment can automatically slip over, which compartment and drum are provided with means to prevent that more than one cutting will slip into the drum, which cuttings are delivered in series by the rotary drums to endless travelling belts, running at the outer side along each series of drums, by which belts the cuttings are successively dropped into the planting-ridges.

1,470,068. LUBRICATOR. WILLIAM E. FARLEY, El Reno, Okla. Filed Aug. 28, 1922. Serial No. 584,797. 6 Claims. (Cl. 184—69.)



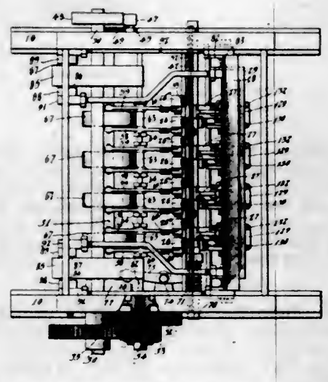
4. In a lubricator, a main container adapted for the reception of a hard lubricant and provided with a filling opening through which the lubricant may be inserted, a secondary container arranged within the main container and comprising a hollow body portion provided in its lower end with an opening and having an open upper end, a cap closing such open upper end and having a port formed therein, the lower end of the port being enlarged, and a control element extending into the opening of the lower end of the secondary container and having a bore aligned with the port of said cap, said control element extending into the enlarged lower end of said bore.

1,470,069. ANTISKID CHAIN. CLARENCE F. FISHER, Lancaster, Kans. Filed Nov. 23, 1922. Serial No. 602,828. 2 Claims. (Cl. 152—14.)



1. An anti-skid device comprising a ring, rods loosely connected with the ring, the outer end of each rod being formed with an eye, and chains each having one end permanently connected with one of the eyes, and having the other end detachably connected therewith.

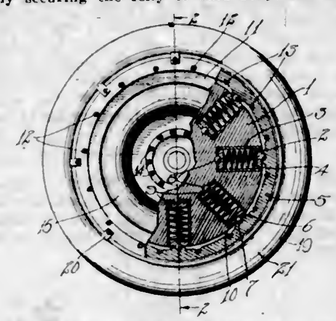
1,470,070. MACHINE FOR MAKING BOOKS. ELMER E. FREY, Long Beach, Calif., assignor to Los Angeles Book Machine Company, Los Angeles, Calif., a Corporation of California. Filed Jan. 12, 1921, Serial No. 436,790. Renewed Mar. 13, 1923. 5 Claims. (Cl. 1—7.)



4. In a machine of the nature disclosed, means for successively assembling book sections, means for stapling each assembled section only to the preceding assembled section with each staple offset laterally from the preceding staple, said means including laterally spaced anvil members, a stapling device shiftable laterally to alternate cooperative alignment with each anvil member, and drive means for the stapling device.

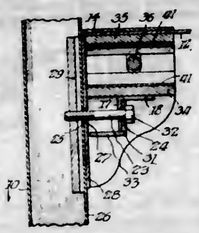
1,470,071. RESILIENT VEHICLE WHEEL. ALBERT B. FUHR, Macomb, Ill. Filed Nov. 2, 1922. Serial No. 598,572. 3 Claims. (Cl. 152—28.)

1. A resilient wheel comprising a body portion having radial slots extending inwardly from the periphery thereof, a felly disposed around and spaced from the periphery, spring means mounted in said slots for yieldingly securing the felly to said body, and resilient



discs secured to said body and said felly and being adapted to keep foreign matter from entering the wheel.

1,470,072. BEDSTEAD CORNER LOCK. JOHN F. GAIL, Evanston, Ill., and CHARLES H. BUSCH, Kenosha, Wis., assignors to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Apr. 15, 1921. Serial No. 461,605. 4 Claims. (Cl. 5—289.)



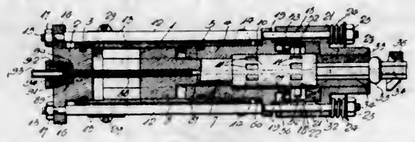
1. In a bedstead corner lock, the combination of a post, a side rail, a socket therefor having a pair of spaced substantially vertical walls, a cross rail for connecting said socket to another part of the bedstead connecting said walls and constituting another wall of the socket, and a threaded member co-operating with the portion of the cross rail between said walls for securing the socket to the post.

1,470,073. METHOD AND COMPOSITION FOR TREATING FIBROUS MATERIAL. WILLIAM C. GEER and JOHN B. DICKSON, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Nov. 21, 1922. Serial No. 602,456. 9 Claims. (Cl. 134—17.)

4. The method of producing a composition of matter which comprises mixing paraffin and rosin, subjecting the mixture to heat and treating it with an oxidizing agent, maintaining the resulting product in a molten state and dissolving rubber therein and introducing castor oil as a softener for the product.

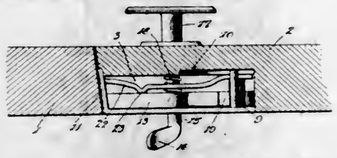
1,470,074. COMPRESSED-AIR DRILL. GINES PEREZ GOMEZ, Miami, Ariz. Filed Apr. 17, 1922. Serial No. 553,731. 10 Claims. (Cl. 121—12.)

1. An air drill comprising a barrel including an expansion chamber, a hammer including a piston forming portion in the expansion chamber, a plug slidably fitting into the rear end portion of the barrel and forming a rear head for the expansion chamber, a drill steel carrier in front of said barrel for holding a drill steel in operative relation to said hammer, side bars carried by the drill steel holder and plug to hold the same in spaced relation and having engagement with the barrel to slidably mount the barrel and prevent rotation thereof, and a handle element carried by the barrel for sliding the barrel longitudinally and control the extent to which the plug extends into the barrel, the hammer having



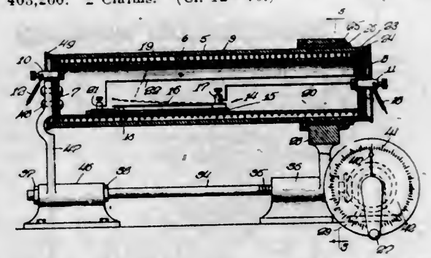
striking engagement with the plug when the barrel is drawn rearwardly and having striking engagement with a drill steel when the barrel is moved forwardly.

1,470,075. LATCH FOR VEHICLE DOORS. IPHUS H. GORDON and CLARENCE E. MILES, Lyndonville, Vt. Filed Dec. 19, 1921. Serial No. 523,386. 1 Claim. (Cl. 292—336.)



The combination with a body having a door opening, and a swinging closure adapted to fit within said door opening, one edge of the door opening being provided with a transverse groove, of a keeper secured in the edge of the door opening and extending across the inner end of said groove and provided with a slot having its side walls converging away from the door opening, an eccentric mounted in the closure for rocking movement in a plane intersecting the plane of movement of the closure, said eccentric having a tapered edge adapted to fit within the slot in the keeper and being provided in one side face with a notch, a spindle rotatably mounted in the closure and carrying said eccentric, a retaining spring secured at one end in the closure and disposed adjacent the side of the eccentric and provided with a lug adapted to engage the notch therein, the free end of said spring being adapted to play in the groove in the body and impinge against the edge of the keeper, a spring coiled around the spindle and having one end secured to the closure and its opposite end connected with the spindle and eccentric, and a pressure spring secured in the door at the rear of the eccentric and bearing upon the eccentric above the spindle.

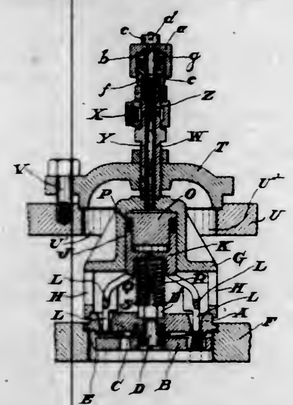
1,470,076. EDGE SETTER AND BURNISHER. LYNN J. GRACE, Chicago, Ill., assignor of one-half to John E. Bell, Chicago, Ill. Filed Aug. 13, 1920. Serial No. 403,260. 2 Claims. (Cl. 12—70.)



1. A device for burnishing the surfaces of shoe soles, having in combination a fixed non-rotatable outer cylinder provided with an outwardly extending bead; a ring slidable on the cylinder providing a surface to form with the bead an adjustable edge setter, means to axially adjust the ring with respect to the bead; an inner cylinder; means for heating the cylinders; and a heat responsive

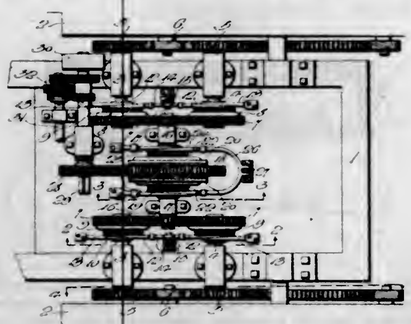
device within the inner closed cylinder to automatically maintain the temperature of the outer cylinder substantially constant.

1,470,077. PLATE-VALVE UNLOADER. HARRY VERCOE HAIGHT, Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 19, 1922. Serial No. 569,473. 3 Claims. (Cl. 230—24.)



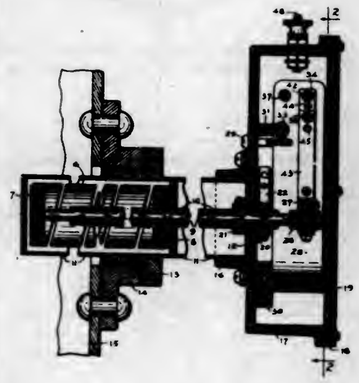
1. A plate valve unloader comprising a plate valve including its seat, stop plate and stud adapted to lie in a valve opening in the cylinder wall of a compressor, a valve cage over the valve seat, the upper portion of the cage being adapted to lie freely in an opening in the compressor cylinder casing, whereby the cage may be readily removed from the casing, an operating cylinder in said cage and a piston in said cylinder having fingers adapted to bear upon the plate valve and hold it from its seat when desired, a spring interposed between the valve stud and the piston, a cover adapted to be secured to the compressor outer casing opposite the said valve opening, a set screw in the said cover cooperating with the valve cage to hold the cage in position on the valve seat, means for supplying fluid pressure through the set screw to the said operating cylinder, and manual means extending centrally through the set screw for actuating the piston in order to unload by hand.

1,470,078. TRANSMISSION MECHANISM. RUSSELL O. HELLWARTH, Celina, Ohio. Filed Sept. 25, 1922. Serial No. 590,510. 5 Claims. (Cl. 180—17.)



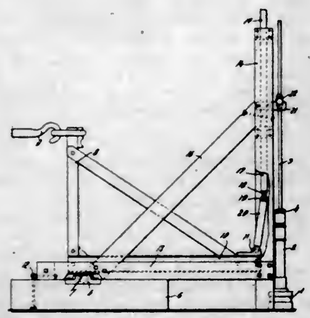
1. A transmission mechanism comprising two transmission units adapted to be connected respectively to right and left traction members, each of said units including a forward driving shaft and a rearward driving shaft, an endless traction member carried element having a portion extending between said shafts and having operative connection therewith and means whereby either shaft may be thrown into play for imparting movement to the traction member, a differential, and mechanism associated with the differential for driving said transmission units at the same speed, regardless of the direction of drive.

1,470,079. THERMOSTATIC SWITCH. HENRY A. HOESCHEN, Omaha, Nebr., assignor of one-half to Baker Ice Machine Company, Omaha, Nebr., a Corporation of Nebraska. Filed Jan. 3, 1921. Serial No. 526,715. 2 Claims. (Cl. 200—138.)



2. In a device of the class described, a thermo-sensitive member, an armature of magnetic material connected therewith and movable thereby in opposite directions according to increase and decrease of temperature, a U-shaped permanent magnet arranged with its poles at opposite sides of said armature whereby to attract the same alternatively, contacts controlled by said armature and adapted to open and close circuits at the limits of movement thereof, and magnet-adjusting means for varying the intensity of the magnetic field in which the armature moves.

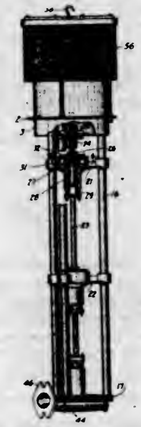
1,470,080. PUMPING JACK. MORRIS C. HOLE, McKittrick, Calif., assignor of one-half to Dee B. Willcuts, McKittrick, Calif. Filed Aug. 3, 1922. Serial No. 579,530. 8 Claims. (Cl. 74—5.)



1. In a pumping-jack, a pump operating rock-frame, an independent guide structure, a guide rod disposed

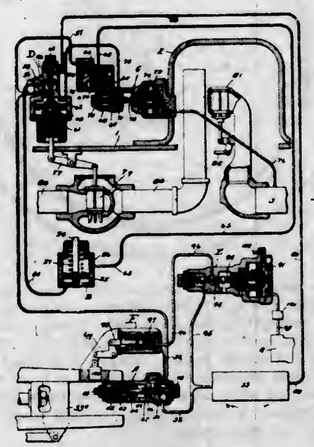
with its longitudinal axis substantially vertical and mounted to slide substantially vertically in said structure, a connecting rod having a pivotal connection with said rock frame and with the lower end of the guide rod, and means carried by said guide rod and adapted to engage a pump rod.

1,470,081. PUMP. SAMUEL E. HUNTTING, Alameda, Calif. Filed Mar. 29, 1923. Serial No. 628,445. 9 Claims. (Cl. 103—87.)



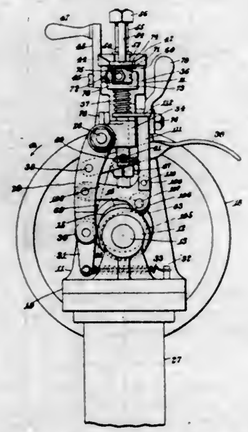
1. A pump comprising spaced upper and lower bases, rods connecting said bases, a shaft journaled on said rods, a centrifugal pump runner fixed on said shaft below the lower base, and a motor on the upper base for driving said shaft.

1,470,082. BOOSTER MOTOR FOR LOCOMOTIVES. HOWARD L. INGERSOLL, White Plains, N. Y. Filed June 20, 1919. Serial No. 305,649. 39 Claims. (Cl. 105—48.)



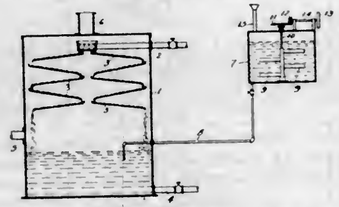
35. In combination with the main driving means of a steam propelled locomotive, a booster motor normally disconnected from the locomotive, and means actuated solely through operation of the main driving means for connecting the booster motor with the locomotive and starting the same and for disconnecting the booster motor from the locomotive and stopping it.

1,470,083. ROUGH ROUNDER AND CHANNELING MACHINE. LAWRENCE E. JOHNSON, Melrose, Mass., assignor to Victor Shoe Machinery Co. of 1919, Lynn, Mass., a Corporation of Massachusetts. Filed Sept. 22, 1922. Serial No. 589,902. 7 Claims. (Cl. 12—13.)



7. In a device of the class described, the combination of a welt gage; a work support having a non-revoluble shank; a channeling knife in said work support; a rocker member having a bearing at one end for said shank; a spring surrounding said shank between said bearing and work support; a plate beneath said spring; a bar depending from said plate; a lever pivoted to said rocker member with its free end pivotally connected to the lower end of said bar; a roller on the lower end of said rocker member; a roller on the free end of said lever; a revolnble shaft; and a separate cam secured to said shaft to coact with each each of said rollers.

1,470,084. METHOD OF DEOXIDIZING WATER. RICHARD G. KNOWLAND, Boston, Mass. Filed Aug. 20, 1919. Serial No. 318,693. 3 Claims. (Cl. 210—16.)

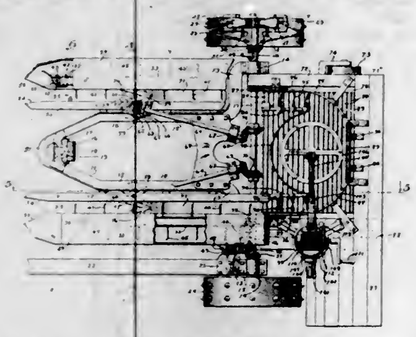


1. The method of deoxidizing water which consists in charging the water with ferrous hydroxid in quantities in excess of the amount required to absorb the free oxygen in the water, to thereby remove the free oxygen from the water and form a ferric hydroxid, retaining said treated water within a closed system to prevent the reabsorption of oxygen, and removing the insoluble ferric hydroxid by filtration.

1,470,085. CORN CUTTING AND SHOCKING MACHINE. THOMAS F. KUHN, Elkhart, Ind. Filed June 25, 1920. Serial No. 391,650. 4 Claims. (Cl. 56—75.)

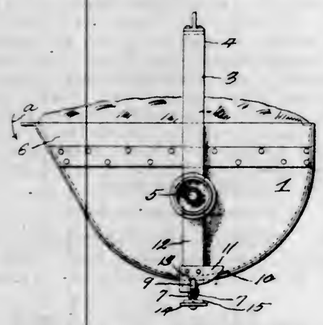
1. In a machine for cutting and shocking corn, a wheeled frame, a pair of longitudinally extending guide devices carried by the frame to receive the stalks of corn therein, stalk engaging means and feeding means operating within the guide devices, cutting means carried by the frame and disposed to engage the stalks within the guide devices, an endless conveyer disposed at the rear end

of the guide devices to receive the stalks therefrom, an upstanding shock forming frame supported in fixed relation



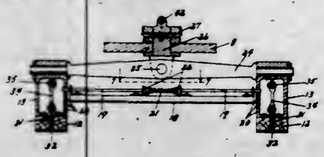
to said wheeled frame above and near the conveyer, a gate in said shock forming frame, and means for discharging a shock through said gate.

1,470,086. PIVOTAL DUMP BUCKET. IRWIN D. LANDIS, South Bend, Ind., assignor to Universal Conveyor Co., South Bend, Ind., a Corporation of Indiana. Filed May 11, 1921. Serial No. 468,661. 4 Claims. (Cl. 294—73.)



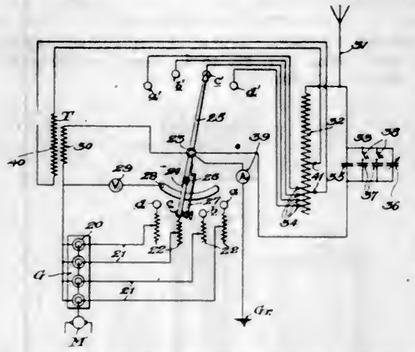
1. A conveying and dumping bucket, said bucket comprising a body portion supported and pivoted in a bail, said body portion being pivoted in said bail in such a manner that said bucket will right itself by gravity after a dumping operation, and latching means for maintaining said bucket normally in a righted position, including a lever extending beneath the bucket and adapted to be tripped to release the bucket upon contact with an object.

1,470,087. MOTOR SLEIGH. EUGENE E. LESHER, Braddock, N. Dak. Filed Jan. 23, 1923. Serial No. 614,491. 3 Claims. (Cl. 280—12.)



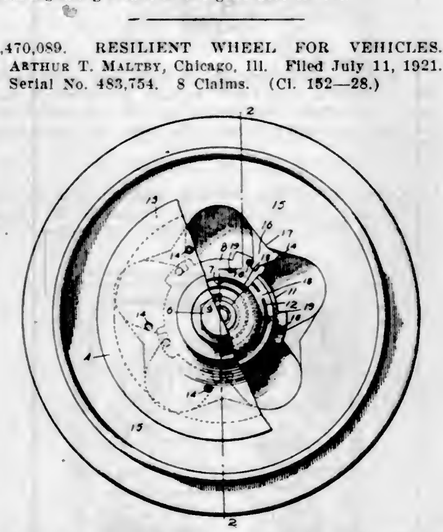
1. A supporting bob, for a sleigh of the character described, consisting of a pair of spaced parallel runners, a wide supporting deck positioned between said runners, said deck being pivotally secured at its front end to the front ends of the runners, and means for adjustably securing the rear end of the deck in various vertical positions with respect to the rear ends of the runners.

1,470,088. ART OF WIRELESS COMMUNICATION. FRITZ LOWENSTEIN, New York, N. Y.; John C. Wait, administrator of said Fritz Lowenstein, deceased, assignor to William Dubilier, New York, N. Y. Filed Nov. 29, 1918. Serial No. 264,642. 3 Claims. (Cl. 250—8.)



1. Apparatus for wireless communication comprising a unitary multi-frequency generator capable of delivering continuous alternating current at any one of several frequencies below 10,000 cycles, an antenna, and means whereby said antenna may be energized by said generator at any one of said frequencies selectively, in combination with signaling means in the generator circuit.

1,470,089. RESILIENT WHEEL FOR VEHICLES. ARTHUR T. MALTBY, Chicago, Ill. Filed July 11, 1921. Serial No. 483,754. 8 Claims. (Cl. 152—28.)

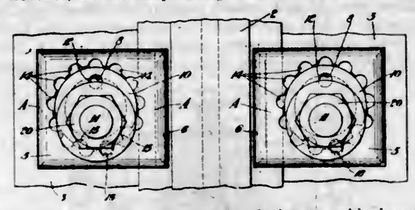


8. In a device of the type specified the combination of a wheel body and a circular rigid ring tread member, with a rotator and spring, said wheel body having a central hub member, said rotator mounted upon said hub and having a bearing and rotary motion thereon, said tread member having flexible connection with said wheel body and with said rotator in such manner that said tread member is held in resilient operative relation to said wheel body by the tension of said spring.

1,470,090. RAIL CLAMP. ROLLO G. MANNING, Ambridge, Pa. Filed May 17, 1923. Serial No. 639,589. 7 Claims. (Cl. 238—341.)

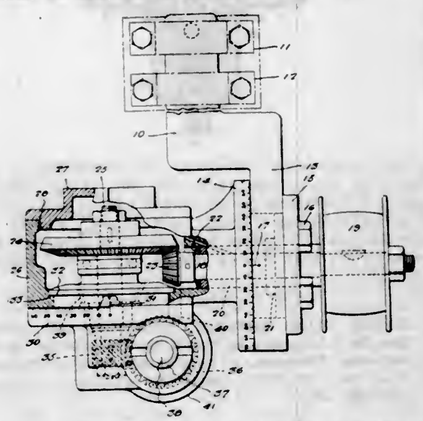
2. The combination with a rail supporting member, of means for adjustably securing a rail to said member, said means comprising a clamping plate having a circular

opening therein, an eccentric washer member mounted in said opening, said washer being provided with a series of notches, means cooperating with said notches to lock



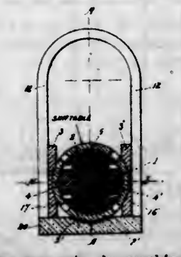
said washer against movement relative to said clamping plate, and a bolt passing through said washer and said plate to secure said parts together and form a pivotal mounting for said washer.

1,470,091. MILLING ATTACHMENT FOR PLANERS. JULIUS MICHELSON, Boston, Mass. Filed Jan. 25, 1922. Serial No. 531,782. 10 Claims. (Cl. 90—17.)



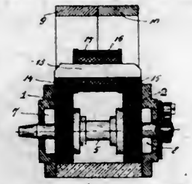
1. In a milling attachment for a planer, a holder for connection with the tool post of the planer, a gear casing including a body extending into and rotatably connected with the holder, gearing within the casing, a shaft for driving the gearing, an element rotatable on said shaft extending through the head and the body, an axis perpendicular to the axis of the shaft, and a tool holding spindle driven from the gearing.

1,470,092. MAGNETO-ELECTRIC MACHINE. GINO MODIGLIANI, Ivrea, Italy, assignor to Ing. Camillo Olivetti & C., Ivrea, Italy, a Firm. Filed June 11, 1919. Serial No. 303,414. 12 Claims. (Cl. 171—209.)



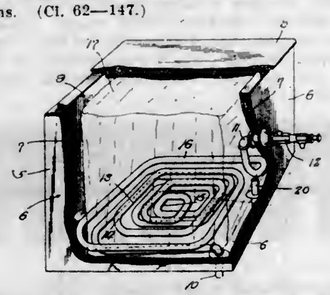
2. In a bi-polar magneto, in combination with magnet poles; an armature and winding carried thereby; and means for extending the magnetic influence of the magnet poles alternately in opposite directions to cause more than two maxima of voltage to be produced for each revolution of the armature, said means comprising flux shifting means carried by the armature.

1,470,093. MAGNETO-ELECTRIC MACHINE. GINO MODIGLIANI, Ivrea, Italy, assignor to Ing. Camillo Olivetti & C., Ivrea, Italy, a Firm. Filed Dec. 23, 1919. Serial No. 346,828. 3 Claims. (Cl. 171—209.)



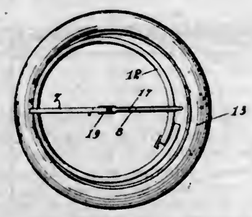
1. A magneto-electric machine, comprising a fixed permanent magnet; a fixed induction coil having a core provided with down-turned ends; and a rotor embodying two annular parts turning in the space between the opposite pole pieces of the magnet, said annular parts having gaps in their peripheries which make them roughly T-shaped in end elevation.

1,470,094. WATER COOLER. EDGAR P. MULL, Toledo, Ohio, assignor to The Allen Filter Company, Toledo, Ohio. Filed Sept. 6, 1922. Serial No. 586,494. 2 Claims. (Cl. 62—147.)



1. A water cooler comprising an ice box having a water inlet and a water outlet, a resilient refrigerating coil connected at opposite ends to said inlet and outlet respectively, said coil having bends or convolutions graduated in height, the bottommost of said coils resting on the bottom of said ice box.

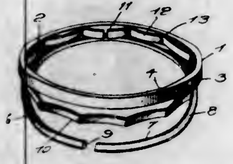
1,470,095. RIM TOOL. ROLAND J. MURRAY, Fredericton, New Brunswick, Canada. Filed June 24, 1921. Serial No. 480,200. 5 Claims. (Cl. 157—1.)



1. A rim tool of the character described including a body portion of U-shaped configuration, the sides of which are extended to provide ears, a bar rigidly secured between the sides of the body portion in spaced relation to the medial portion thereof and coacting therewith to provide a guide, another bar slidable in the guide and having teeth on one edge and medially of its ends, a lever pivoted at its inner end between the ears of the

body portion, a head formed upon the inner end of said lever, teeth formed on one side of the head to permit sliding of the bar and being adapted to engage the teeth on the bar to effect sliding of the bar, gripping members formed on the outer ends of the bars and latch means mounted on one of the members.

1,470,096. PISTON PACKING RING. JOHN F. MYERS, Detroit, Mich. Filed Dec. 11, 1922. Serial No. 606,159. 3 Claims. (Cl. 74—109.)



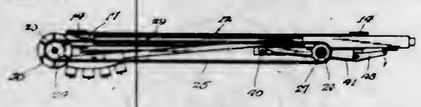
1. Piston packing comprising a split ring having parallel inner and outer peripheries and a beveled lower edge, a compensating ring having a flat upper surface and a beveled surface coinciding with the beveled lower edge of said packing ring, and a spring element mounted on the flat upper surface of said compensating ring and adapted to bear against the cylindrical inner periphery of said packing ring, substantially as described.

1,470,097. FRINGE FOR RUGS AND THE LIKE AND METHOD OF MAKING THE SAME. AUGUST E. NEFF, Chicago, Ill., assignor to Phoenix Trimming Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 21, 1922. Serial No. 555,874. 8 Claims. (Cl. 28—1.)



1. A fabric having a mat formed of warp strands and filler strands, the filler strands extending beyond one edge of the mat and being bound together by a binder course intermediate the edge of the mat and the ends of the filler strands, and stitching uniting the filler strands and the binder course.

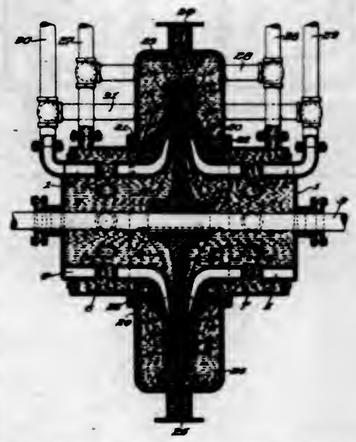
1,470,098. EMERGENCY BRAKE FOR MOTOR VEHICLES. JAMES W. ORR, Kansas City, Mo. Filed Nov. 13, 1922. Serial No. 600,517. 7 Claims. (Cl. 188—4.)



1. An emergency brake for wheeled vehicles comprising a brake shoe, an arm carrying said shoe, a sleigh suitably guided on the vehicle, said arm being pivoted on the sleigh, and means actuated by a vehicle wheel adapted to place the brake shoe in operative position.

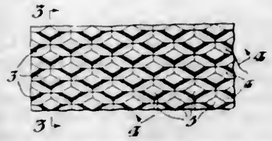
1,470,099. PUMP. MILLARD P. OSBOURN, Philadelphia, Pa. Filed July 30, 1920. Serial No. 400,175. 2 Claims. (Cl. 230—14.)

1. In a pump, the combination of a casing having a central chamber, a circular impeller member rotatably mounted in said chamber, curved radially extending impelling blades on each side of said circular impeller member operative to centrifugally force fluids in said central chamber to the periphery of the impeller, impeller annuli secured to said circular impeller near the periphery thereof, and curved radially extending impelling blades on each of said annuli and connected to the blades on said circular impeller member, said annuli being curved and spaced from said circular impeller member



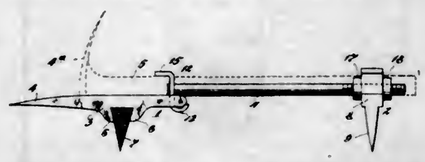
near the periphery thereof to provide converging and diverging annular throats on each side of said circular impeller, said blades on said annuli and on said circular impeller extending through said throat, whereby an annular series of curved converging and diverging passages is provided on each side of said circular impeller member.

1,470,100. TOOL HANDLE. WILL R. PORTER, Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 23, 1920. Serial No. 412,334. 2 Claims. (Cl. 145—61.)



2. A tool handle comprising a finger-hold having a plurality of intersecting grooves, so spaced as to form a plurality of minute rhomboidal surfaces of approximately equal dimensions with said grooves, and having their acute angles directed in planes coincident with the axis of said tool handle.

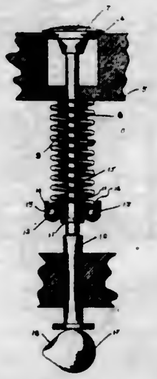
1,470,101. HORSESHOE ATTACHMENT. ALEXANDER PRITCHARD, Evergreen, N. Y. Filed Oct. 14, 1920. Serial No. 416,998. 2 Claims. (Cl. 168—30.)



1. An antiskid attachment for horseshoes, comprising a strut having end recesses, a transverse opening, and a heel-calk, and a front clamping member constituting a malleable plate having a toe-calk, forwardly extended

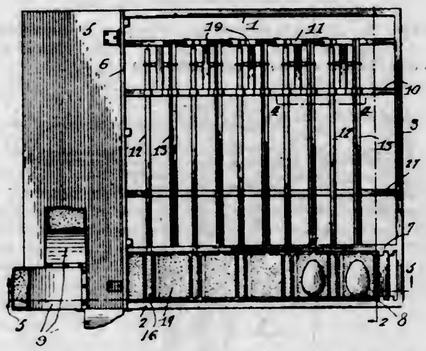
prongs, and a lateral slot, and a rod having at its forward end a hook for engaging said slot, said rod at its rear end engaging through the opening of said strut, and means for adjustably fastening said rod to said strut.

1,470,102. VALVE. FRED RAHM, Louisville, Ky. Filed Dec. 10, 1921. Serial No. 521,452. 1 Claim. (Cl. 123—90.)



The combination with a reciprocating valve, and an actuating tappet therefor having a circular head, of means holding the valve in frictional engagement with the tappet, and a cam equal in width to the diameter of said head registering therewith and provided with converging forward and rear faces forming an apex to act against the head for lifting the valve, the forward face of said apex being cut away longitudinally from one side of the cam for reducing the effective width of said apex at the crest thereof to engage said head at one side of its axis for rotating the tappet and valve when the valve is lifted, the forward face of said apex being cut away for a portion of its length only thereby the full width of said face will engage the head to accomplish the initial lifting movement of the valve.

1,470,103. NEST ATTACHMENT. VILMAIRE RAICHE, St. Felix de Kingsey, Quebec, Canada. Filed Aug. 14, 1922. Serial No. 581,759. 6 Claims. (Cl. 119—48.)

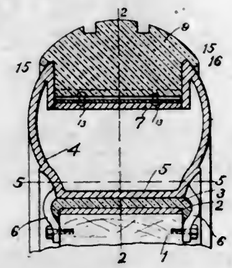


1. An egg delivery apparatus comprising a frame, a main chute formed therein and longitudinally thereof, pivoted bars extending transveraely of the frame and extending into said chute, the portions disposed in said chute being provided alternately with depressor plates and partitions.

1,470,104. PRIMING COMPOSITION AND PROCESS FOR PRODUCING THE SAME. HANS RATHSBURG, Furth, Germany. Filed Oct. 19, 1921. Serial No. 508,826. 1 Claim. (Cl. 52—4.)

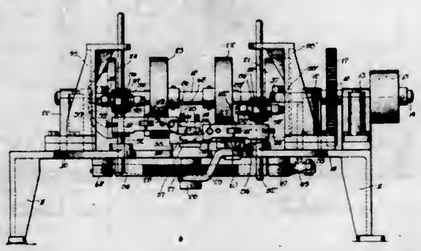
The improved process for the production of a priming composition, which comprises employing the lead salt of the trinitrophlorogiucine.

1,470,105. TIRE. EUGENE E. REDDEN, Springfield, Mass. Filed Nov. 10, 1922. Serial No. 600,036. 6 Claims. (Cl. 152—6.)



1. A resilient tire comprising a plurality of tubular sections each section being formed with a channel which register with each other, resilient elements located in the channel, means formed with dove tailed shaped folds therein for receiving and securing the resilient elements in the channel, and means for attaching the tubular sections to the rim of the wheel.

1,470,106. WIRE-BENDING MACHINE. THOMAS C. RUSSELL and OTTO A. LANGOS, Chicago, Ill., assignors to Russell Electric Company, Chicago, Ill., a Corporation of Illinois. Filed May 10, 1922. Serial No. 559,716. 8 Claims. (Cl. 140—105.)

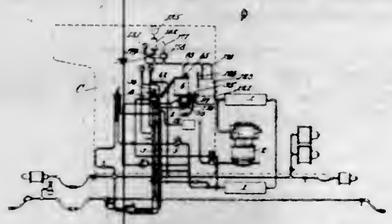


1. In a wire bending machine, the combination of a pair of blades adapted to receive and hold the wire to be bent, an arm arranged to swing in front of said blades, wire guiding means on said arm, said arm when swung carrying the wire to either side of said blades and said blades acting as abutments for causing bending of the wire, means for alternately raising said blades and bringing one in front of the other, and means for shifting said blades rearwardly to discharge the bent wire.

1,470,107. COMBINATION AUTOMATIC AND MANUALLY-OPERABLE AIRBRAKE, POWER CONTROL, AND ALARM SYSTEM. ALFRED L. RUTHVEN, Buffalo, N. Y., assignor to Simplex Train Control Co., Inc., Rochester, N. Y., a Corporation of New York. Filed June 15, 1917. Serial No. 175,018. 70 Claims. (Cl. 246—182.)

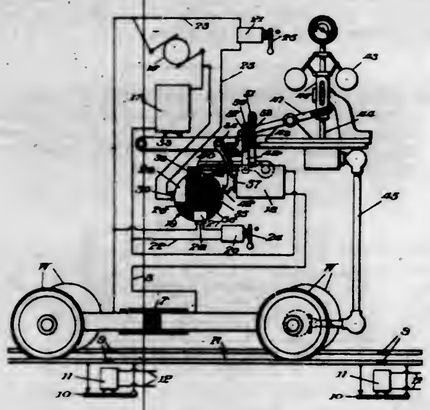
6. A vehicle controlling apparatus including vehicle retarding means having an oscillatory manually-oper-

able member, and an automatic equipment for automatically operating said member including an oscillatory member connected with the firstnamed member to oscillate about the axis of the firstnamed member, a pneu-



matic chamber in which the secondnamed oscillatory member is movable for turning motion about said axis, and means for supplying pressure fluid to said chamber for moving the secondnamed member to operate the firstnamed member.

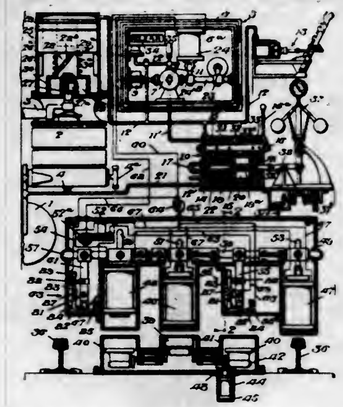
1,470,108. SIMPLEX TRAIN CONTROL. ALFRED L. RUTHVEN, Rochester, N. Y., assignor to Simplex Train Control Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Jan. 14, 1921. Serial No. 437,288. 39 Claims. (Cl. 246—57.)



19. Vehicle controlling apparatus including a responsive vehicle device operable step by step to different positions for producing corresponding conditions of vehicle control in succession, catches for retaining said device when operated one or more steps, said device being adapted to return to normal position when released, and means controlled by the speed of the vehicle and controlling said catches for releasing said device when corresponding reductions in vehicle speed have been complied with.

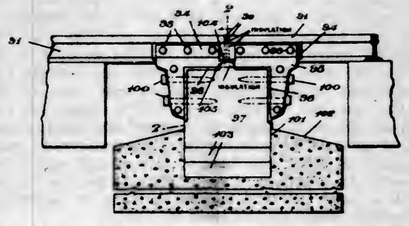
1,470,109. ELECTROMAGNETIC TRAIN CONTROL. ALFRED L. RUTHVEN, Rochester, N. Y., assignor to Simplex Train Control Company, Inc., Rochester, N. Y., a Corporation of New York. Original application filed Oct. 8, 1918, Serial No. 257,336. Divided and this application filed Feb. 19, 1921. Serial No. 446,304. 21 Claims. (Cl. 246—182.)

10. Vehicle controlling apparatus embodying clear maintaining magnetic means normally responded to a track device, danger magnetic means to respond to the track device, and means for retarding the vehicle should



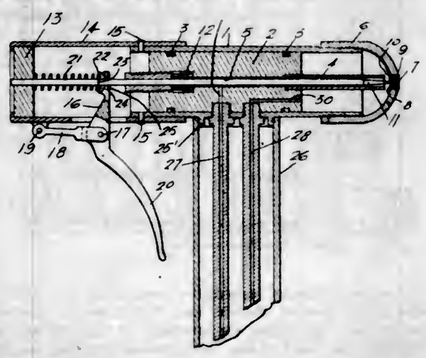
either the first named means move from responded position or the second named means respond.

1,470,110. INSULATED RAIL JOINT. ALFRED L. RUTHVEN, Rochester, N. Y. Original application filed Sept. 6, 1921, Serial No. 498,609. Divided and this application filed Nov. 30, 1921. Serial No. 518,870. 6 Claims. (Cl. 238—152.)



1. An insulated rail joint comprising spaced clamps for the end portions of the rail sections having portions to extend under the base flanges of the rails and abutments below said portions to abut the opposite sides of a support on which said portions are disposed.

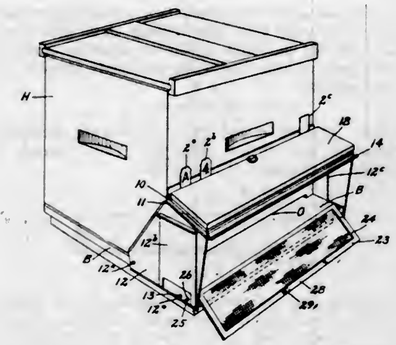
1,470,111. LIQUID SPRAYER. MATHEW F. BIRRSDORF, Los Angeles, Calif. Filed Oct. 1, 1921. Serial No. 504,750. 5 Claims. (Cl. 299—140.)



1. A liquid sprayer comprising a tubular member to which is secured a hollow handle, a plug in the said

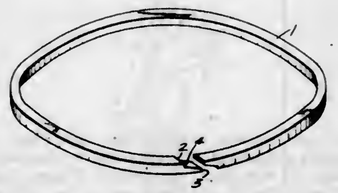
tubular member having liquid and air conduits, a nozzle cap adjustably mounted on the forward end of said tubular member, a valve stem slidably mounted in said plug and adapted to close said nozzle, air and liquid pipes extending through said hollow handle and having communication with said conduits, said pipes being supported by said plug, and means for actuating said valve stem.

1,470,112. BEEHIVE HOOD AND CONDITION INDICATOR. JOHN B. COTTAM, Montecito, Calif. Filed July 21, 1922. Serial No. 576,573. 5 Claims. (Cl. 6—4.)



1. A protecting device for beehives, including a hood attachable to the front of a hive to overhang the hive entrance, the hood having a hollow roof, the upper portion of which is movable to provide access to the chamber within the roof.

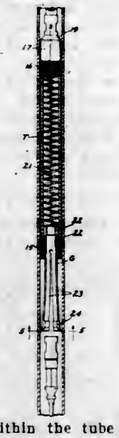
1,470,113. PISTON RING. MORRIS A. DAVIS, Los Angeles, Calif. Original application filed Nov. 11, 1920, Serial No. 423,337. Divided and this application filed Apr. 11, 1921. Serial No. 460,584. 1 Claim. (Cl. 74—109.)



A piston ring comprising an annular body rectangular in cross section, said body being provided with substantially parallel cuts extending inwardly from the opposite side faces thereof, about a quarter of the thickness, and then split in a plane extending diagonally from the inner ends of the mentioned parallel cuts, the said cuts also extending diagonally across the ring between the inner and outer faces.

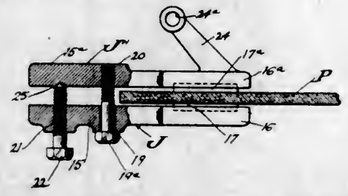
1,470,114. SUCKER-ROD OVERSHOT FISHING TOOL. SHANNON A. ERWIN, Orcutt, Calif. Filed Nov. 18, 1921. Serial No. 516,086. 2 Claims. (Cl. 294—99.)

1. A fishing tool comprising a tube, a supporting sleeve slidably mounted in the tube, a gripping member sustained on said sleeve, said member including a resilient body split to provide a plurality of slips having enlarged and beveled ends, a locking collar in the lower end of the



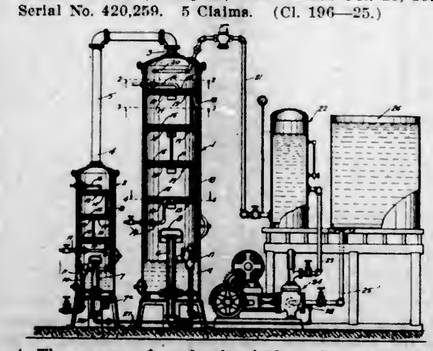
tube, and a spring within the tube and engaging said sleeve for normally urging the gripping member to a projected position with respect to the tube.

1,470,115. CLAMP. GEORGE GLAUDEL, Los Angeles, Calif., assignor of one-half to George L. Mitchell, Santa Monica, Calif. Filed Mar. 1, 1922. Serial No. 540,355. 2 Claims. (Cl. 296—84.)



2. A clamp comprising a pair of jaws including body portions and extensions formed on the body portions, a set screw threaded through the body portion of one of said jaws and engaging the body portion of the other jaw, a clamping screw disposed between the set screw and the free ends of the extensions and passing loosely through the body portion carrying the set screw and threaded into the other body portion, and yieldable strips secured to the confronting faces of said extensions.

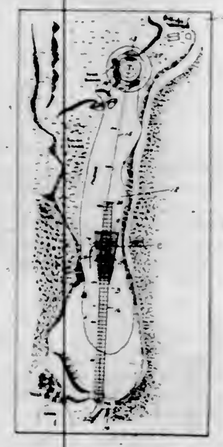
1,470,116. APPARATUS AND PROCESS FOR CONDENSING CASING-HEAD GAS AND THE LIKE. GEORGE E. GRAY, Compton, Calif. Filed Oct. 28, 1920. Serial No. 420,259. 5 Claims. (Cl. 196—25.)



4. The process of condensing hydrocarbon gases which consists of introducing the gas into a receptacle provided

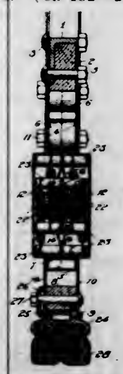
with cooled layers of finely divided, metallic, contact substance, said layers being continuously cooled by the passing of a circulating cooling liquid therethrough, subjecting the gases to the action of said substance by passing them through the layers, draining away the condensed gases from the receptacle, and leading off the uncondensed gases from the top of the receptacle into a second receptacle, subjecting the gases therein to action of finely divided, metallic, contact substance and at the same time spraying a liquid hydrocarbon into the second receptacle and carrying off the condensed and uncondensed gases separately.

1,470,117. GAME. NELSON MACRAE, Wilmington, N. C. Filed Feb. 3, 1922. Serial No. 533,900. 8 Claims. (Cl. 46—63.)



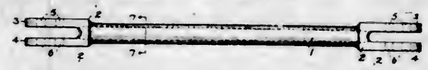
1. A game of the class described for use in connection with a golf machine comprising a playing field chart upon which is delineated a golf course, separate scale and protractor means for determining the position of a golf ball on said course corresponding to the stroke length registered on said golf machine, said protractor arbitrarily fixing the length of roll of the ball.

1,470,118. RESILIENT WHEEL. FERDINAND A. SCHAEFER, Raspeburg, Md. Filed June 16, 1920. Serial No. 389,333. 12 Claims. (Cl. 152—28.)



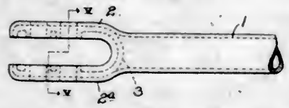
1. In a vehicle wheel comprising relatively movable hub and rim portions, cushioning means adapted to resist movement thereof, comprising a plurality of load sustaining elements grouped about a central point, a toggle link connection between the load sustaining elements, and expansible springs disposed between opposing load sustaining elements, the springs relatively crossing so as to equalize the strain, the several load sustaining elements having a positive radial movement, and the springs having an approximate tangential arrangement.

1,470,119. CONNECTING BAR. FREDERIC SCHAEFER, Pittsburgh, Pa. Filed Nov. 12, 1919. Serial No. 337,598. 3 Claims. (Cl. 74—17.)



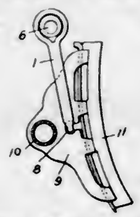
1. A pressed steel connecting bar, comprising a blank formed at its ends with longitudinal slots, and having its body portion partially folded on itself in cross section, the ends of said bar being uniformly thicker than the body portion.

1,470,120. CONNECTING ROD. FREDERIC SCHAEFER, Pittsburgh, Pa. Filed July 19, 1920. Serial No. 397,473. 3 Claims. (Cl. 74—17.)



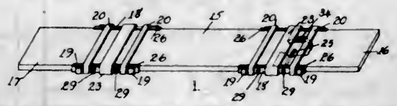
3. A connecting rod formed throughout of an integral tube of substantially uniform wall thickness, the rod having a tubular body and a forked head having two tines, the head comprising a divided and laterally spread prolongation of said body, a yoke arranged between and rigidly attached to the tines of said head, and the tines and yoke being provided with pin holes, the yoke forming a reenforcement for the tines and increased bearisg area for connecting pins.

1,470,121. RAILWAY-BRAKE HANGER. FREDERIC SCHAEFER, Pittsburgh, Pa. Filed July 25, 1922. Serial No. 577,288. 3 Claims. (Cl. 188—209.)



3. A forged railway brake hanger comprising spaced substantially cylindrical side arms and a transverse arm connecting the side arms, the transverse arm consisting of an I-beam having its upper and lower flanges provided with curved bearing faces, the upper flange being of greater depth and width than the lower flange thereby affording an increased bearing surface of undiminishing extent due to wear, and the side and transverse arms being of substantially uniform cross-section throughout.

1,470,122. PAPER-HANGER'S SECTIONAL PLANK. EDWARD SCHULER, Springfield, Ill. Filed Aug. 15, 1921. Serial No. 492,620. 1 Claim. (Cl. 304—38.)



A section-uniting metal frame for paper hanger's planks, said frame comprising perforated parallel side bars; a relatively wide plate extending around the central part of both side bars and permanently attached thereto; upper transverse bars and lower transverse bars permanently attached to said side bars adjacent to the ends thereof and removable bolts extending through both side bars; in combination with re-enforced plank sections entered between said upper and lower transverse bars at each end of the frame and abutting against each other between the upper and lower members of said transverse plate and secured by said removable bolts.

1,470,123. GARDEN-HOSE SUPPORT. ASHER R. SMITH, Laredo, Tex. Filed Oct. 20, 1921. Serial No. 509,010. 3 Claims. (Cl. 248—29.)



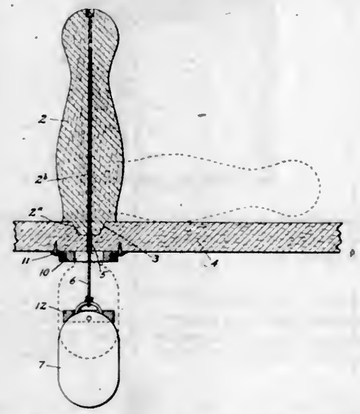
1. A device of the character described comprising a stake circular in cross section, an upper and a lower hose engaging clamp each formed from a strip of resilient sheet metal bent to provide a substantially U-shaped clamp for fitting around a hose and gripping the same, and fasteners passing through the clamps and stake said fasteners constituting pivot pins for mounting the clamps for independent turning adjustment upon the stake, one head of said pins having a convex outer face and a convex inner face to snugly fit the inner surface of the U-shaped clamp, and the other head of said pins having a convex outer face and a concave inner face to snugly fit against the surface of the circular stake, thereby frictionally holding the clamps in set position.

1,470,124. INHALER. WILLIAM STRICKER, Kansas City, Mo. Filed Apr. 30, 1921. Serial No. 465,937. 3 Claims. (Cl. 128—200.)



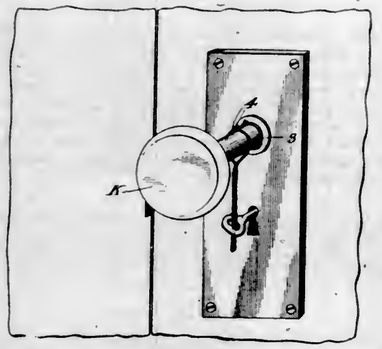
1. A device of the character described consisting of a tubular container provided adjacent one end with inlet ports and having a reduced opposite end provided with a single outlet port, and a tubular casing closed at one end and open at its opposite end to receive said container which is swaged to hermetically close said casing when placed in position therein.

1,470,125. GAME. CHARLES S. TALBERT, Long Beach, Calif.; L. R. Talbert executor of Charles S. Talbert, deceased. Filed July 5, 1922. Serial No. 572,946. 4 Claims. (Cl. 46—54.)



1. In a game including pins adapted to be toppled over during the playing of the game, means for automatically restoring toppled pins to a vertical position, including weights attached to the pins, armatures attached to the weights and stationary magnets for holding the weights to free the pins.

1,470,126. KEY LOCK. LEE R. TALBERT, Los Angeles, Calif. Filed Oct. 12, 1922. Serial No. 593,975. 1 Claim. (Cl. 70—65.)

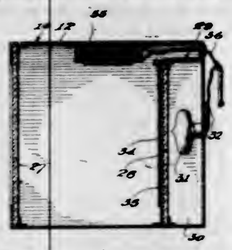


A key retaining device consisting of a piece of wire strands of which are twisted one on the other to form a shank, and the ends of the wire being provided with portions to engage around the shank of a door knob and consisting of semicircular interlocking end portions.

1,470,127. VEHICLE SIGNAL. HORACE F. TAYLOR, JR., Buffalo, N. Y. Filed Jan. 2, 1920. Serial No. 348,740. 2 Claims. (Cl. 177—329.)

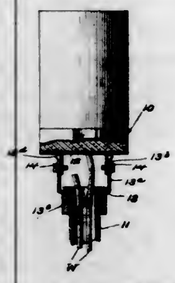
1. A vehicle signal, comprising a casing having a compartment, said compartment having a transparent rear wall, a transparent partition in said compartment, a signal lamp in rear of said transparent partition, a supporting partition for said transparent partition forming in connection with said transparent partition a lamp retaining compartment, signal indicia on said transparent partition, a hingedly mounted shutter of magnetic material disposed in front of the transparent partition and normally hiding the indicia from view and carried by the supporting par-

tition, an electromagnet in the first mentioned compartment, said magnet adapted to attract said shutter to move



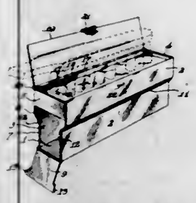
the same from in front of the indicia upon said transparent partition, the shutter forming the armature for the magnet.

1,470,128. ELECTRIC FITTING. DON N. THOMPSON, Syracuse, N. Y., assignor to Pass & Seymour, Inc., Solvay, N. Y., a Corporation of New York. Filed Nov. 8, 1919. Serial No. 336,636. 2 Claims. (Cl. 240—52.)



1. The combination with the insulating base of an electric fitting provided with wire terminals, of means for attaching the same to a wire conduit comprising a separable coupling having one part secured to said base the other part of said coupling being adapted to be secured to said wire conduit and having a portion extending toward and adapted to engage the base to prevent lateral movement of the insulating base relatively to the wire conduit.

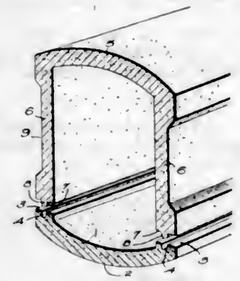
1,470,129. TOOTHBRUSH SHIELD AND DENTIFRICE HOLDER. ELMORE D. TICHENOR, Detroit, Mich. Filed Aug. 18, 1922. Serial No. 582,575. 2 Claims. (Cl. 132—84.)



1. A brush shield comprising a casing adapted to be placed endwise on a brush, said casing having a chamber throughout its length disposed parallel to a brush in said casing, said casing having its side walls provided with end shoulders, an end lid hingedly connected to the bottom wall of said casing at the inner end of said casing and adapted to swing upwardly under the end shoulders of said casing to retain the brush in the shield, and a top lid for the chamber of said casing.

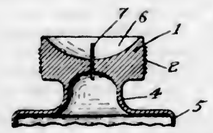
2. A brush shield as called for in claim 1, wherein said casing has its side walls inbent to form a bristle receiving compartment of less width than said chamber.

1,470,130. BURIAL VAULT. MOSES VAN SLYKE, Clarksville, Iowa; W. L. Asher, administrator of said Moses Van Slyke, deceased, assignor of one-half to Joseph Van Slyke, Clarksville, Iowa. Filed Jan. 27, 1922. Serial No. 532,272. 1 Claim. (Cl. 72—7.)



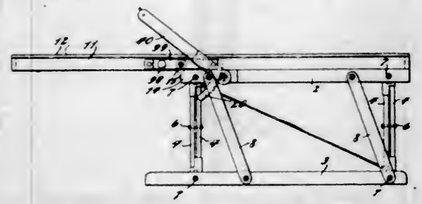
A burial vault comprising a curved top, side and end walls depending therefrom, and a curved bottom on which said side and end walls are adapted to rest, said bottom being provided with a peripheral flange having a flat upper face adapted to receive the lower face of the side and end walls, one of said faces being provided with a longitudinal groove, and a rib formed on the other face and adapted to be received in said groove.

1,470,131. DISPENSING DEVICE. CHARLES M. ABBOTT, Watertown, Mass. Filed Dec. 15, 1919. Serial No. 345,017. 4 Claims. (Cl. 221—60.)



1. In a container for an unguent or the like, a delivery nozzle having a concave finger portion provided with a transverse slot in the bottom thereof communicating with the interior of the container for delivering into said concave portion a broad thin ribbon of material which may be progressively taken up beneath the finger nail as the finger is wiped through said concave portion, and a closure for said delivery having a rounded portion conforming to and adapted to enter the concavity of said finger portion and seal said slot.

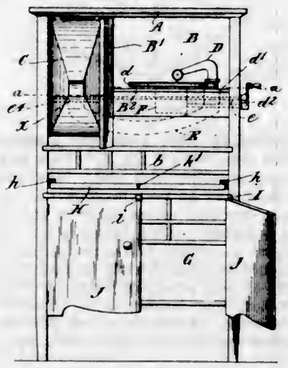
1,470,132. TILTING TABLE. GIDEON ANDERSON, New York, N. Y., assignor to The West Gravitiser Corporation, New York, N. Y., a Corporation of New York. Filed July 28, 1920. Serial No. 399,623. 17 Claims. (Cl. 45—50.)



1. In a device of the character described, a supporting frame; a table pivotally mounted on said frame; and table tilting mechanism comprising a shaft, operative connections between said shaft and the table, a ratchet wheel on said shaft, a pivoted operating lever having a pawl for

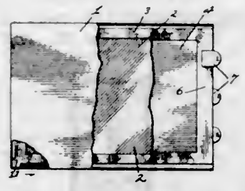
engagement with said ratchet wheel, and means for preventing engagement of the pawl with the ratchet teeth during the reverse stroke of the operating lever.

1,470,133. COMBINED TALKING-MACHINE CABINET AND WRITING DESK. FREDERICK ARTHUR ALCOCK, Armadale, near Melbourne, Victoria, Australia. Filed May 19, 1923. Serial No. 640,260. 1 Claim. (Cl. 274—2.)



A talking machine cabinet having a top and providing two front-opening compartments arranged side by side directly under said top, a forwardly extending horn in one of said compartments, a talking machine in the other compartment, said last named compartment having a floor, the talking machine turntable and tone arm being accessible below the top and above the floor and through the compartment front, said tone arm being arranged forwardly within said compartment and swingable outwardly, and an elongated transverse horn extension arranged below said floor and at one end extending into the horn compartment and opening upwardly into the rear end of the horn and at its opposite end opening upwardly through said floor into said tone arm.

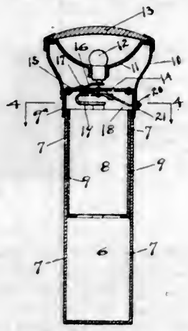
1,470,134. COPYING DEVICE. FAXON DEAN ATHERTON, Jr., San Francisco, Calif. Filed Apr. 13, 1922. Serial No. 552,282. 9 Claims. (Cl. 95—66.)



1. A copying device comprising a holder; a light dispersing element slidably mounted within the holder; and a web of sensitized paper slidably mounted within the holder adjacent the light dispersing element, said web and light dispersing elements being arranged to be withdrawn from the holder for placement upon subject matter to be copied.

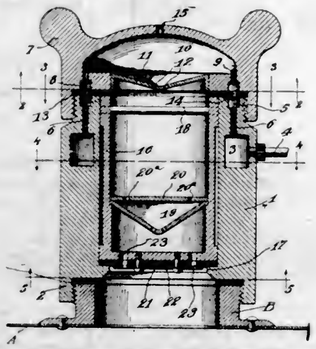
1,470,135. LAMP. JOHN H. BALLWEG, Portland, Oreg. Filed Aug. 17, 1921. Serial No. 492,963. 2 Claims. (Cl. 240—8.5.)

2. In an electric lamp; a removable switch member intermediate the lamp and the batteries, comprising a container having an insulating diaphragm therein; a lamp contact upon one side of said diaphragm; a switch actuator pivoted upon said diaphragm at a point axially alined with the batteries and the lamp, and



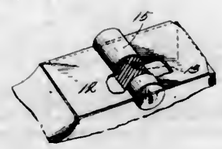
having a contact member adapted to make and break contact with the central electrode of the battery and said lamp contact.

1,470,136. COMBINED CAP AND ANTISPLASH DEVICE FOR GASOLINE TANKS. JOHN BAUDINO, Herrin, Ill. Filed Apr. 12, 1922. Serial No. 551,899. 3 Claims. (Cl. 158—46.)



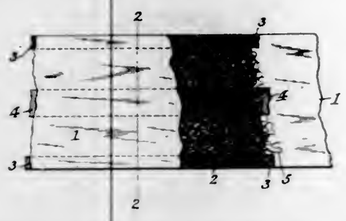
1. The combination with a filler cap having an air vent, of a series of perforated diaphragms carried by said cap and arranged in different horizontal planes, and means for conducting fumes passing through said diaphragms to a fuel supply pipe.

1,470,137. SPOKE TIGHTENER. GEORGE C. BOLLER, Loomis, and EDWARD CLARENBACH, Gridley, Calif. Filed Dec. 14, 1922. Serial No. 606,817. 3 Claims. (Cl. 301—81.)



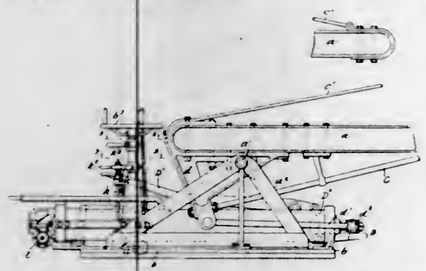
2. The combination with the inner ends of wheel spokes, of shims disposed between the adjacent faces of the spokes and provided with apertures registering with recesses in the adjacent sides of the spokes, of a cylindrical body carried by the shims and disposed in the recesses of the spokes and connected through the apertures in the shim, said cylindrical body being formed by pouring molten metal into the recesses in the spokes.

1,470,138. TIRE WRAPPER. MAURICE BLUMENTHAL, Brooklyn, N. Y. Filed Feb. 24, 1919. Serial No. 278,947. 3 Claims. (Cl. 154—52.)



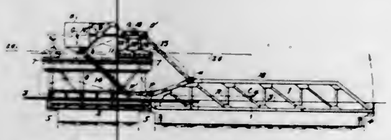
1. An improved wrapper of the class described, comprising superposed pliable outer body sheets united and adhesively secured together at their opposed surfaces by an adhesive compound, and textile or fibrous waste or sweepings forming an internal filler mass located intermediately of said outer body sheets and secured as a composite layer in association with the uniting adhesive compound and extending as a surface mass over the general area of the opposed surfaces of said outer sheets.

1,470,139. AERIAL EXTENSION LADDER. ROBERT S. BOLGER, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 22, 1921. Serial No. 494,130. 7 Claims. (Cl. 228—10.)



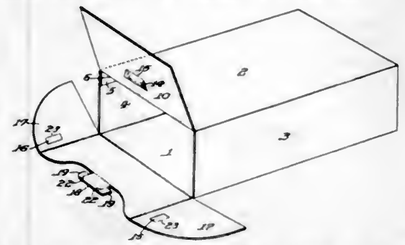
5. In an aerial extension ladder, means to support it pivotally, power operated devices connected operatively to the ladder for elevating it, a worm shaft, a nut mounted to travel on the shaft, means to connect the nut to the ladder and a brake operatively associated with said worm shaft to control the rate of elevating the ladder.

1,470,140. BASCULE BRIDGE. THOMAS E. BROWN, New York, and THOMAS ELLIS BROWN, Jr., Yonkers, N. Y. Filed Nov. 8, 1921. Serial No. 513,681. 13 Claims. (Cl. 14—36.)



1. In a bascule bridge, a movable span, a counterweight carrying member, a support for said member adapted to travel backward and forward on a fixed part of the bridge structure, and links associating said member with said span said support and said links adapted to move the geometric axis in a horizontal line and maintain the secondary radius always parallel to the primary radius.

1,470,141. FOLDING BOX. WALTER D. BRYSON, Ridley Park, Pa., assignor to Fibre Container Company, a Corporation of Pennsylvania. Filed June 17, 1922. Serial No. 569,018. 3 Claims. (Cl. 229—39.)



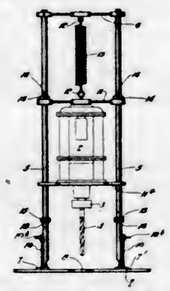
1. A box formed from a unitary blank of bendable material and comprising a top, a bottom and two sides, end members, provided with slots, extending from the top and adapted to be bent to close the end openings, bendable end members extending from the bottom, each comprising a central portion having a tab with bendable wings adapted to engage said slots against withdrawal, bendable corner portions, having tongues formed therein, on each side of said central portion and adapted to slide within the box, said tongues being adapted to contact with the interior of the box and provide resistance against withdrawal of said corner portions.

1,470,142. FORK. LOUIS W. BUSCH, Toledo, Ohio. Original application filed Apr. 4, 1921, Serial No. 458,212. Divided and this application filed June 21, 1922. Serial No. 569,990. 2 Claims. (Cl. 294—99.)



1. In a device of the class described, a handle member having a hand grip at one end and a prong at its other end, a member pivotally mounted for swinging movement upon the handle member and provided with a prong for coaction with the first-mentioned prong and located at one side of its pivot and provided with a finger piece located at the other side of its pivot and in juxtaposition to the hand grip, and means yieldably holding the member swung to position to effect coaction of the prongs.

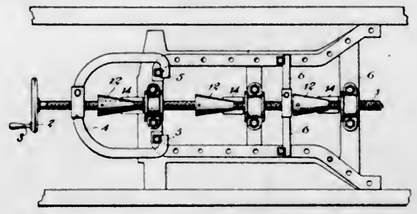
1,470,143. PORTABLE DRILL. JOHN H. BUTERBAUGH, Johnstown, Pa. Filed Feb. 10, 1922. Serial No. 535,532. 3 Claims. (Cl. 77—6.)



1. The combination with a motor operated portable drill, of a guide for said drill, said guide comprising a pair of parallel side rods, upper and lower yokes secured to the upper and lower faces of the motor of said drill and slidably mounted on said side rods, a spreader bar secured across the upper ends of said side rods, a coiled spring secured to said spreader bar and to the yoke

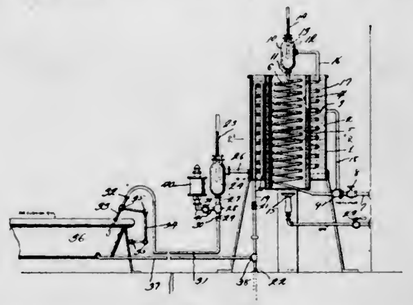
secured to the upper face of said motor, said spring tending to move the motor backward so as to withdraw the drill from the bored hole, and a base pivotally secured to said side bars and adapted to be held in engagement with the face of the work by the foot of the operator, and thus to guide the drill on a determined line with reference to the face of the work.

1,470,144. REAMING DEVICE. TYLER P. CARROLL and EDWARD GRAFF, Seattle, Wash. Filed Aug. 21, 1922. Serial No. 583,284. 2 Claims. (Cl. 77—2.)



1. In a reaming device, a reamer shaft, an end support therefor having hook terminals and a vertically adjustable support for the opposite end of said shaft, comprising a cross bar, an open rectangular portion carried by the cross bar, and a block cooperating with the reamer shaft and vertically adjustable in said rectangular portion.

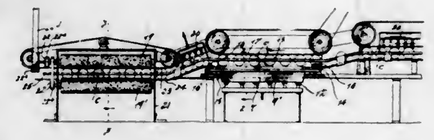
1,470,145. STERILIZER AND IRRIGATOR. TELESPHORE E. CARON and DENIS M. RAICHE, Kankakee, Ill. Filed Sept. 9, 1919. Serial No. 322,682. 1 Claim. (Cl. 126—350.)



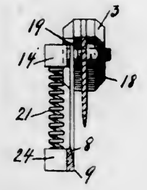
The combination with a liquid sterilizer and cooling apparatus comprising a receptacle having a central passage therein, a heating coil disposed in said passage, a cooling coil disposed in the receptacle and adapted to be covered by water and through which coils a continuous flow of water is maintained, a discharge pipe carried by the cooling coil, of means for maintaining a constant level of water in the receptacle, said means comprising a water supply pipe connected to the receptacle, a valve carried by said water supply pipe and an overflow pipe extending upwardly into the receptacle and arching over the cooling coil and having its intake end disposed adjacent the bottom of the receptacle, said overflow pipe having a valve for controlling flow therethrough.

1,470,146. CAN-SOLDERING MACHINE. LOUIS J. CHARLAND, Richmond, Vt., assignor to The Borden Company, New York, N. Y., a Corporation of New Jersey. Filed June 21, 1920. Serial No. 390,486 12 Claims. (Cl. 113—68.)

1. An apparatus for soldering cylindrical cans comprising a solder-container, or trough, having a cover provided with a horizontally-longitudinally extended, upwardly projecting, spout, the top of which is in part divided by a therethrough medial perforation, or slot, for the solder, into a bifurcated track for the cans having mutually parallel treads respectively bounding opposite sides of the slot; means to downpress the cans against simultaneously both of said treads and meanwhile roll them forward, and means to meanwhile feed solder upwardly through the slot continuously.

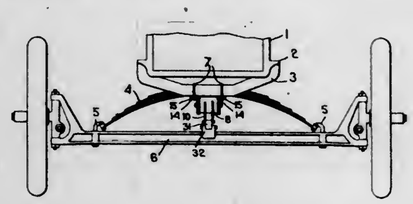


1,470,147. KNIFE. WILLIAM CLAWSON, San Francisco, Calif. Filed Nov. 14, 1922. Serial No. 600,903. 1 Claim. (Cl. 30—20.)



In a knife, a blade, a guide member having two arms extending therefrom, two supports extending from one face of the blade engaging slots in the arms for supporting the guide member in spaced and parallel relation to the blade and spring means associated with each arm for normally forcing the guiding member into a leading position relative to the cutting edge of the blade adapted to yield when a resistance is met by the guide member, said guide member including a guiding edge and a guiding face slanting away from the edge allowing a cut slice to fall away from the main body.

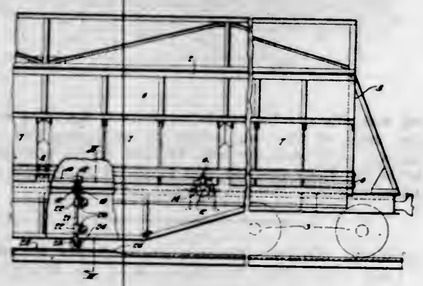
1,470,148. SHOCK ABSORBER. CHARLES N. COLSTAD, Norfolk Downs, Mass. Filed Dec. 31, 1921. Serial No. 526,108. 3 Claims. (Cl. 267—9.)



1. In a shock absorber, the combination with a drum open at each end, of a head closing each end of the drum, means rigidly connecting said heads, means for securing the heads to the frame of an automobile, an arm extending from the drum and adapted to be secured to the axle of an automobile, whereby the yielding movement of the automobile body will cause the drum and heads to turn relative to each other, a split friction band for each head, each band having one end rigidly secured to the

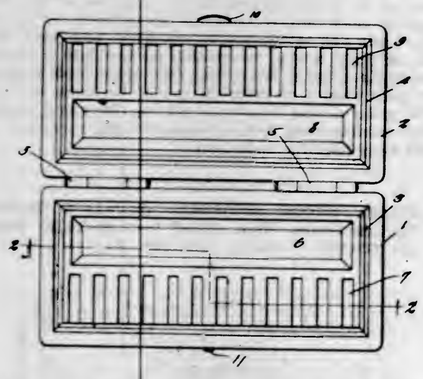
corresponding head and having frictional engagement with said drum, and a spring arm carried by each head and engaging the other end of the corresponding band.

1,470,149. CAR-DOOR-LOCKING MECHANISM. JAMES H. DAVIS, Clairton, Pa. Filed Oct. 25, 1922. Serial No. 596,843. 4 Claims. (Cl. 214—1.)



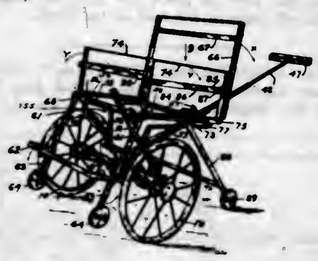
1. In a railway car having discharge doors hinged along one of their sides, the combination with door operating mechanism including a shaft adapted to be rotated to open said doors, and means for rotating said shaft, of means for locking said shaft against rotation, and means located at a predetermined point in the path of travel of said car for automatically tripping said locking means to release said shaft.

1,470,150. SAFETY HOLDER FOR MINE SQUIBS AND DETONATORS. JOSEPH W. DAVIS, Ansted, W. Va. Filed Feb. 10, 1922. Serial No. 535,644. 1 Claim. (Cl. 206—3.)



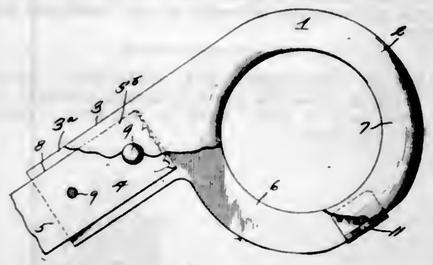
A holder for squibs and detonators, comprising a base member and a cover member of insulating material movably connected, there being a longitudinal recess and a longitudinal series of transverse recesses in each member, the recesses in one member being adapted to register with the corresponding recesses in the other member when said members are closed together, thereby to form a longitudinal squib receiving space and a longitudinal series of transversely extending detonator receiving spaces, all of said spaces being out of communication with each other, one of the members having a continuous groove in one face thereof adjacent the edges of the face, and a continuous rib on one face of the other member adapted to be seated within the groove to seal the holder when closed.

1,470,151. COLLAPSIBLE BABY CARRIAGE. PHILIP H. DENNEN, Denver, Colo., assignor of thirty-nine one-hundredths to Thomas F. Lynch and ten one-hundredths to William R. Lynch, both of Denver, Colo. Filed Apr. 1, 1922. Serial No. 548,609. 15 Claims. (Cl. 280—36.)



1. In a device of the class described, in combination, an axle, a handle secured thereto, and means whereby the axle may be extended and collapsed by a rotary movement of said handle.

1,470,152. HANDLE. BENJAMIN A. DENTON, Morganton, N. C. Filed June 29, 1922. Serial No. 571,823. 1 Claim. (Cl. 97—191.)



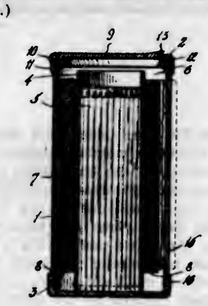
The combination with a plow handle, of a detachable handle carried thereby, said detachable handle comprising hingedly connected members, said hinged connecting members being provided with annular grip members semicircular in transverse cross section, said annular grip members being provided with tangentially disposed recessed members for the reception of the opposite sides of a plow handle, said hingedly connected members registering with each other when they are folded on each other and means passing through apertures in the recessed extensions for holding said extensions together and holding the plow handle in the recesses thereof.

1,470,153. DRAFT GEAR FOR TRAINS. BYRAM S. DICKERSON, Mattoon, Ill. Filed Aug. 4, 1922. Serial No. 579,747. 5 Claims. (Cl. 213—43.)



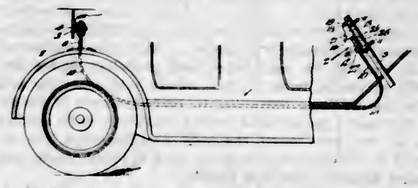
1. In a draft gear for trains or the like, a stationary frame, a drawbar associated slidably with said frame, a stationary cylinder, a piston in said cylinder, means associated with said drawbar for moving said piston in one direction, means for confining a liquid within said cylinder and causing it to direct resistance against said piston in one direction, means for retarding and gradually stopping the flow of the liquid within said cylinder, means for utilizing air under pressure for increasing the resistance of the liquid against said piston, said air pressure also returning said piston to its initial position and holding the drawbar against sudden sliding displacement in either direction, and movable means separating said liquid and air.

1,470,154. COMBINED MATCH CASE AND CIGARETTE-PAPER HOLDER. ROBERT V. DRAUGHON, Waco, Tex. Filed Mar. 10, 1922. Serial No. 542,680. 2 Claims. (Cl. 206—38.)



1. In a device of the type set forth, a cylindrical body having an integral bottom and a top part each provided with integral outwardly projecting peripheral portions which portions are formed between their inner and outer faces with curved and relatively confronting slots, said body having a longitudinal slot, a central hollow cylindrical member in the body spaced from the circumferential wall thereof and seated on the bottom end wall of the body, a supporting ring secured about said central member above the bottom of the body, a roll of paper seated on said supporting ring and in encircling relation to the central member, a cover for the top of the body, and a curved slide having its ends received in said curved slots, the paper projecting through the longitudinal slot of the body and the slide being movable over the projecting part of the paper to conceal and clamp the latter against the body, said slide having a roughened portion affording a combined match striking and finger gripping surface.

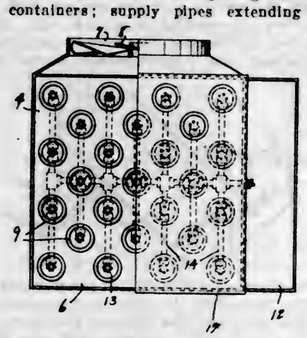
1,470,155. SIGNAL FOR MOTOR-DRIVEN VEHICLES. FRANK C. DREW, San Francisco, Calif. Filed Jan. 19, 1923. Serial No. 613,568. 5 Claims. (Cl. 74—39.)



1. In a device of the character described,—a vehicle,—a signaling device on said vehicle,—a device under the control of the driver, which comprises a movable housing and push buttons carried by said housing,—stops to be encountered by said push buttons to limit the movement of said housing,—and a flexible connection between said housing and said signaling device.

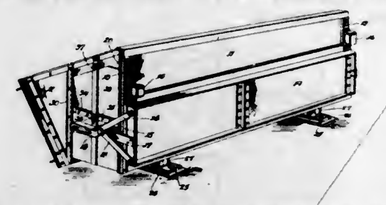
1,470,156. AIR COOLER. GEORGE R. EVANS, Fresno, Calif. Filed Mar. 15, 1922. Serial No. 543,945. 3 Claims. (Cl. 62—139.)

1. An air cooling device comprising a substantially rectangular box open at the top; legs supporting said box at each of the lower corners thereof; a rectangular opening in one side of said box; an opening in the opposite side of said box; an air blower mounted in said last opening adapted to force air into the interior of said box; a removable cover for the upper end of said box; a plurality of containers mounted within said box to extend vertically and being open at the top, and closed at the bottom, except at the center thereof; openings in the bottom wall of said box in register with the openings in the bottom of said containers; supply pipes extending upwardly



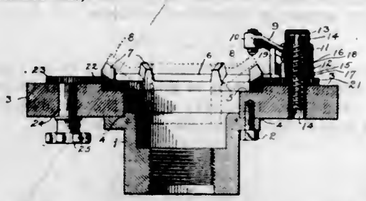
through said last openings into said containers; a tank mounted on the side of said box the tops of said containers and said box lying in the same plane; and a connection from the bottom of said tank to said supply pipes.

1,470,157. STONE SPREADER. JOSEPH L. FIKE, Shelby, Ohio, assignor to The Burch Plow Works Company, Crestline, Ohio, a Corporation of Ohio. Filed Jan. 11, 1922. Serial No. 528,507. 8 Claims. (Cl. 94—46.)



1. A road-building spreader including a casing open at its top and bottom, means supporting the casing for movement over a roadway, and means for connecting the casing to a vehicle whereby the vehicle may discharge into the casing, the casing being formed at its ends to provide road clearance greater than the clearance at the intervening portion of the casing.

1,470,158. CHUCK. ORLANDO GARRISON, Dayton, Ohio. Filed Nov. 12, 1918. Serial No. 262,235. 16 Claims. (Cl. 279—1.)

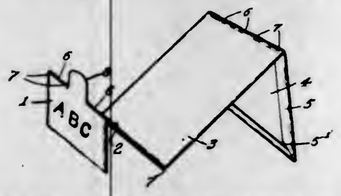


1. A work holder of the character described including a main body or support, work locating means thereon, a series of work engaging members capable of both axial movement to and from the work independent of each other and rotary movement into and out of engaging position, and means for simultaneously shifting said engaging members.

1,470,159. DISPLAY STAND. FRANCIS W. GIBSON, West Roxbury, Mass. Filed Apr. 23, 1920. Serial No. 375,914. 2 Claims. (Cl. 211—24.)

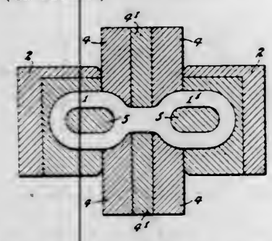
1. A box display stand of the easel type, consisting of a blank of sheet material foldable transversely along defi-

nite lines to provide a relatively short forwardly inclined smooth, uninterrupted seat member and a relatively long rearwardly inclined smooth, uninterrupted seat member against which the bottom wall and one end wall, respectively, of a box are adapted to snugly seat, said seat members at their intersection providing an extended bearing for the stand, and a down-turned bracing member



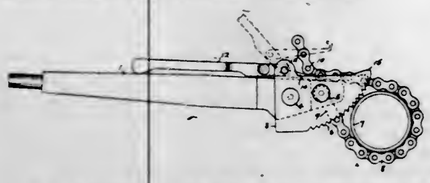
hinged at the upper edge of each seat member and having its lower edge disposed in the plane of the extended bearing of the seat members and effective therewith to support the stand in upright position, said seat members foldable flatly against each other and said bracing members foldable flatly each against the seat member to which it is hinged when the display stand is collapsed for shipment.

1,470,160. CHAIN-LINK WELDING. JAMES H. GRAVELL, Elkins Park, Pa., assignor to Thomson Electric Welding Company, Boston, Mass., a Corporation of Massachusetts. Filed June 3, 1921. Serial No. 474,737. 8 Claims. (Cl. 219—5.)



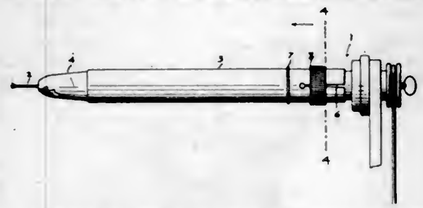
1. The herein described method of forming simultaneously two links or eyes of a chain or eye-bar, consisting in bringing the free ends of two similar metal blanks into contact with one another, heating the contacting ends and parts contiguous thereto to welding and forming temperature and then applying transverse pressure to weld the contacting free ends together and simultaneously produce by one and the same operation two eyes or links while the blanks are retained in their heating clamps.

1,470,161. PIPE TONGS. JOHN R. GRAY, Goose Creek, Tex., assignor of one-half to Ed. Leach, Bexar County, Tex. Filed Dec. 12, 1921, Serial No. 521,628. Renewed June 4, 1923. 2 Claims. (Cl. 81—68.)



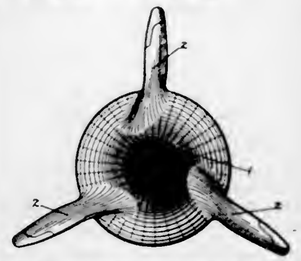
1. A tong including a handle, pipe engaging jaws fastened to the operative end thereof, a chain pivoted at one end between said jaws and whose other end carries laterally projecting pins, a lever pivoted at one end to said tong and a bifurcated hook pivoted at one end of said lever and whose other end is formed to engage with the opposite ends of one of said pins.

1,470,162. SANITARY DENTAL HANDPIECE COVER. FRANCIS J. GRUSS, San Francisco, Calif. Filed Aug. 19, 1922. Serial No. 583,009. 3 Claims. (Cl. 32—10.)



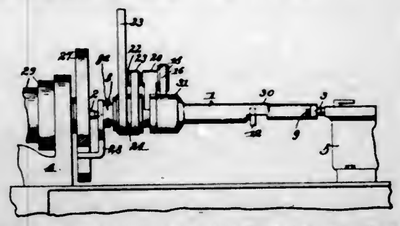
1. A shield for the hand piece of a dental drill machine comprising a tubular member adapted to encase the entire gripping portion of the hand piece and having an opening at one end through which the drill of the hand piece is extended, said shield conforming to the shape of and engaging the hand piece throughout the portion thereof encased by the shield and having a rounded taper at its forward end and means providing for removably attaching the shield to the hand piece, said shield corresponding in external contour to the external contour of the hand piece.

1,470,163. AIRCRAFT PROPELLER. CHARLES S. HALL, Los Angeles, Calif. Filed May 16, 1922. Serial No. 561,512. 4 Claims. (Cl. 170—159.)



1. An aircraft propeller comprising a centrally located pelecoidal cone portion having a profile with its apex forwardly extending from the radial line established by the base thereof; the said cone having a relatively smooth surface, except at the juncture of the blades, and extending backwardly from the apex along a gradually accentuating curve subtending towards a radial line established at the base of the said cone; and propeller blades outwardly extending from the base of the said cone, the said blades having their beginning in protuberances of gradually increasing proportions from a relatively wide surface area of the cone until the said protuberances are increased in definiteness coinciding with the said blades, and forming bases for the said blades.

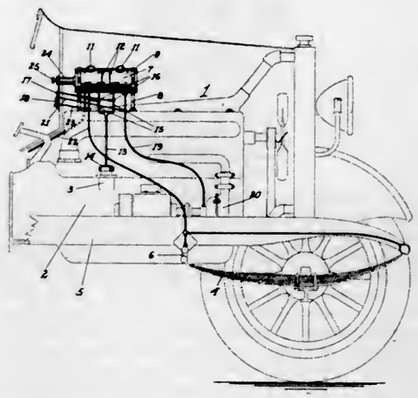
1,470,164. GRINDING BAR. JAMES RAYMOND HALTERMAN, Miles City, Mont. Filed Apr. 25, 1922. Serial No. 556,452. 5 Claims. (Cl. 51—261.)



1. A grinding bar having a hub, a bar structure including a hood and having a housing at which the bar

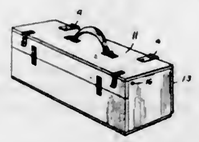
structure is secured to the hub, a grinding shaft eccentrically mounted in the bar structure with one end extending into the housing, a pulley fixed on said extended end of the shaft and concealed by the housing, and a grinding wheel on the other end of the shaft situated beneath said hood.

1,470,165. LUBRICATING SYSTEM FOR AUTOMOBILES. EDWIN H. HANEY, Los Angeles, Calif. Filed Nov. 28, 1921. Serial No. 518,350. 1 Claim. (Cl. 184—105.)



The combination with a motor vehicle lubricating system comprising a reservoir and a series of conduits separately connected with the reservoir and to various points of the vehicle, each conduit having a separate control valve, of a control board located adjacent the dash board of the vehicle and having a series of designations thereon corresponding to the points of the vehicle to which the conduits lead, and a valve stem on each valve leading through the control board adjacent the proper designation for the control of the lubricant through its corresponding conduit.

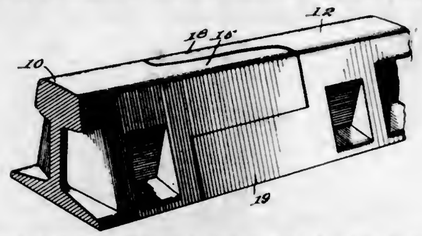
1,470,166. CHEST AND CONTAINER. DUDLEY HOLLAND, Duluth, Minn. Filed July 10, 1922. Serial No. 574,088. 6 Claims. (Cl. 217—8.)



1. The combination of a chest containing a bottom compartment and movable trays, in combination with a movable outside encasement encasing the said trays, and attached to said trays by suitable means of attachment.

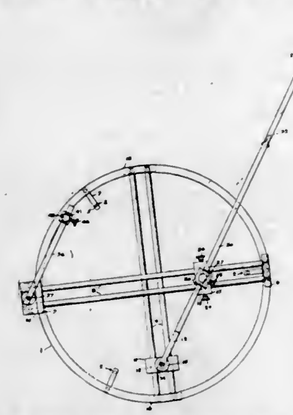
1,470,167. RAIL JOINT. EMIDIO IANNI, New Derry, Pa. Filed Mar. 30, 1923. Serial No. 628,836. 3 Claims. (Cl. 238—237.)

1. The combination of abutting rail ends, one of the rails being formed with horizontally extending tongues, reversely arranged, and the other rail being formed with tongues arranged reversely with respect to those first named, the tongues of the respective rails being in diagonally opposed relation, and each tongue



being adjacent to an outer side of the rail, and a horizontal web formed between the tongues of one rail and fitting between the tongues of the abutting rail.

1,470,168. SCRIBING INSTRUMENT. HANS H. JEPSEN, San Francisco, Calif. Filed Oct. 3, 1921. Serial No. 504,966. 6 Claims. (Cl. 33—31.)

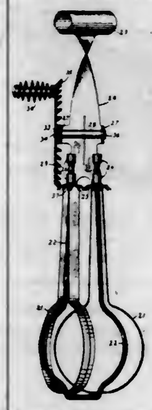


1. A scribing instrument embodying in its construction an annular frame, guide rods supported by and extending across said frame, slide members movable upon said rods, an arm slidable longitudinally in one of said slide members, a slide member mounted upon said arm and depending therefrom, a scribing point adjustably connected with said last named slide member, and angular legs pivoted on the frame and arranged so as to be disposed in inwardly or outwardly off-set relation to the outer perimeter of the frame.

1,470,169. EGG BEATER. CHARLES E. KAIL, Binghamton, N. Y., assignor to The A. & J. Manufacturing Co., Binghamton, N. Y., a Corporation of New York. Filed May 2, 1922. Serial No. 557,910. 12 Claims. (Cl. 259—131.)

1. In an egg-beater having two beating elements and a U-shaped frame on the respective legs of which said elements are journaled,—the combination of coengaging pinions formed from thin sheet material and journaled upon respective legs of said frame, said pinions each having a cup-shaped toothed periphery so formed as to enable said pinions to effectively serve either as spur or beveled gears, a body member formed from thin sheet material and comprising a tubular T-handle formed by bending a portion of said material so as to provide a hollow cross bar centrally secured to the upper end of said body member, lugs formed integrally from said member by bending portions of said material so as to provide tubular channels, said lugs situated near the opposite end of said body member and enclosing the

free ends of said frame, ears formed integrally from said member intermediate said handle and said lugs, a shaft journaled in said ears, a gear formed from thin sheet material and fixed upon said shaft, said gear having



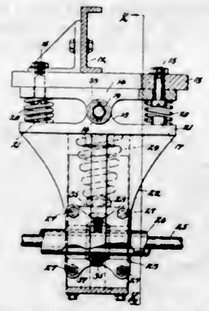
teeth formed in the periphery thereof, disposed edgewise and projecting at a suitable angle from the rear face thereof so as to operatively engage the teeth of one of said pinions.

1,470,170. EGG BEATER. CHARLES E. KAIL, Binghamton, N. Y., assignor to The A. & J. Manufacturing Co., Binghamton, N. Y., a Corporation of New York. Filed July 17, 1922. Serial No. 575,522. 10 Claims. (Cl. 259—131.)



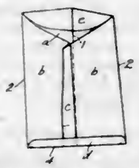
1. In an egg-beater: two beating elements, a U-shaped frame on the respective legs of which said elements are journaled, coengaging pinions journaled upon said respective legs and suitably secured to said beating elements, respectively, a driving wheel engaging one of said pinions, and a shaft to one end of which said driving wheel is fixed,—in combination with a body member comprising a stamped sheet metal piece having portions thereof rolled over so as to form suitably spaced channels for holding the ends of said U-shaped frame and a continuous channel forming a journal for said shaft, the ends of the portions forming said spaced channels overlapping said body portion between said channels; and a strip of sheet metal in the form of a handle loop, the ends of said strips disposed side by side so as to form an extension to said piece, said ends embracing portions of said overlapping body ends, and rivets securing said strip ends one to the other, one of said rivets passing through said body member between the edges of the overlapping ends thereof.

1,470,171. LOAD-SUPPORTING MEANS FOR MOTOR VEHICLES. HERBERT C. KNIGHT, Lynn, Mass. Filed Nov. 23, 1922. Serial No. 602,725. 5 Claims. (Cl. 267—28.)



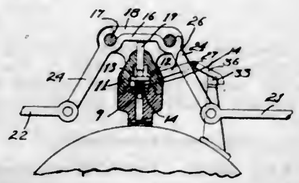
1. In a motor vehicle, in combination, a head secured to the chassis; an oscillatory upper abutment; a horizontal hinge connecting the said abutment with the head and arranged to permit the abutment to oscillate crosswise of the chassis; vertically acting buffer springs interposed between the said head and abutment at opposite sides of the hinge axis, and normally maintaining the abutment at the center of its oscillating movement; an axle; a lower abutment secured to the axle; and a vertically acting load spring interposed between said abutments.

1,470,172. PAPER DRINKING CUP AND METHOD OF MAKING SAME. ELIE W. LABOMBARDE, Nashua, N. H. Filed Apr. 14, 1921. Serial No. 461,213. 7 Claims. (Cl. 229—53.)



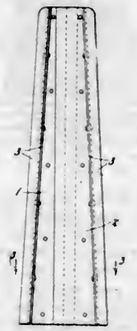
1. A vertically elongated waterproof flexible cup normally flat, comprising a blank having opposite parallel edges secured together face to face and presenting an elongated flexible handle normally flat against a side of the cup extending from the upper to the lower portion of the cup to steady said cup in use.

1,470,173. AUTOMATIC LOCK FOR RELEASE VALVES. ROY G. LABACHOTTE, Porterville, Calif. Filed Oct. 23, 1922. Serial No. 596,534. 7 Claims. (Cl. 303—80.)



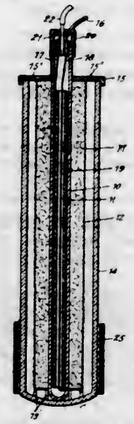
1. Self-operating locking means for a valve having an inclined link member for actuating the same comprising a pivoted member engaging the link adapted to slide down on the same when the link is operated so as to prevent its return.

1,470,174. METAL POLE. MAURICE LACHMAN, New York, N. Y., assignor to Electro Steel Products Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 22, 1920. Serial No. 375,657. 5 Claims. (Cl. 189—24.)



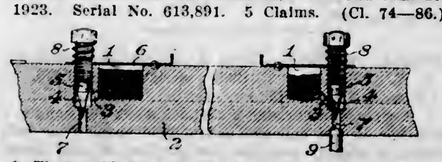
1. A tapered pole consisting of four tapered channel sections each tapered in its web or flat, two of said sections constituting sides of the pole while the two other sections have their webs or flats placed back to back and their flanges secured to the flat of the side members or elements.

1,470,175. REFRACTORY METAL PRODUCT AND PROCESS OF MAKING THE SAME. CLEMENS A. LAISE, Weehawken, N. J. Filed May 2, 1921. Serial No. 466,336. 33 Claims. (Cl. 25—17.)



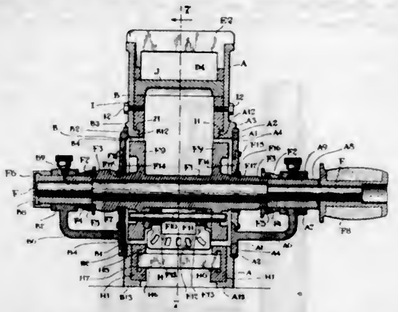
1. An article of manufacture comprising dense, compact, fused tungsten which has been heated while confined in a mold of refractory material of lower coefficient of expansion.

1,470,176. OIL CUP FOR CROSSHEAD GUIDES. HENRY C. MANCHESTER, Scranton, Pa. Filed Jan. 20, 1923. Serial No. 613,891. 5 Claims. (Cl. 74—86.)



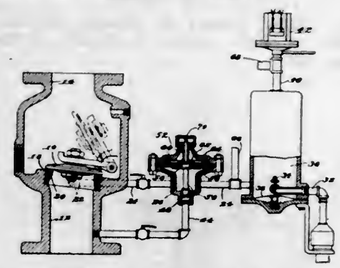
1. The combination, with a cross head guide bar, of an oil chamber, recessed in the top thereof; oil passages, leading therefrom to the bottom of the guide bar, and means for controlling the flow of oil through said passages.

1,470,177. PULVERIZING MACHINE. HART H. MCNAUGHTON, Maryville, Tenn. Filed Feb. 1, 1922. Serial No. 533,361. 7 Claims. (Cl. 83—11.)



1. In a machine of the kind described, the combination with a body having upright walls and a rotary structure supported by said walls and comprising centrifugal hammers, of a screen frame and grate bars below the rotary structure, upright lining plates located between the screen frame and the throat of the machine and having their inner faces channeled, and a grinding plate having its ends resting in said channels and against the adjacent end of the screen frame, substantially as described.

1,470,178. AUTOMATIC ATTACHMENT FOR FIRE-EXTINGUISHER SYSTEMS. JONATHAN C. MELOON, Providence, R. I. Filed Mar. 16, 1921. Serial No. 452,816. 10 Claims. (Cl. 169—23.)

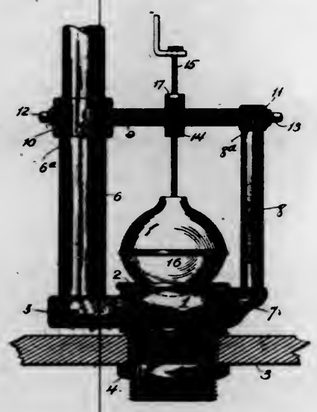


1. An attachment for an automatic sprinkler system having a valve, said valve being in the water supply part of the system, opened by flow of water therethrough and subject to closure by surge therein, comprising the combination, with a passage having an inlet controlled by said valve, having a restricted discharge, and communicating with apparatus to be operated by accumulation of water from inflow exceeding capacity of discharge, of a second inlet to said passage connected with the system on the supply side of said valve and continuously open to pressure thereof; a valve for the second inlet arranged with pressure of the supply fluid tending to open it; yielding means for maintaining said valve of the second inlet closed; and a movable wall for the passage, engaging the stem of the second valve and having large area relative to the area of that valve, whereby the accumulation of a small head of water counterbalances said yieldable closing means enough to permit the opening of said second inlet valve, and the resulting increase of pressure maintains the second inlet valve open.

1,470,179. FLUSH-VALVE CONSTRUCTION. SAMUEL J. T. METZGER, Williamsport, Pa. Filed Nov. 25, 1921. Serial No. 517,699. 1 Claim. (Cl. 4—5.)

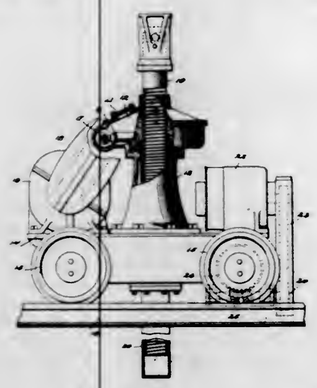
In a flush valve structure, the combination with a hollow member having a valve seat, of a vertical overflow

tube communicating with said member at one side of said valve seat, a vertical rod carried by said hollow member at the opposite side of said valve seat, said tube and rod having shoulders, said rod being shorter than said tube, a single cross bar having collars at its respective ends



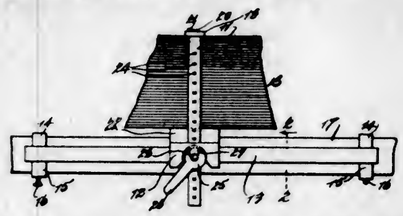
secured to said tube and rod and adapted to seat on the shoulders of the same, said cross bar having an intermediate vertical elongated guide member, a bushing in said guide member, a valve, and a valve rod passing through said bushing and engaging the same from end to end thereof.

1,470,180. JACK. ROBERT N. MILLER, Altoona, Pa. Filed May 20, 1921. Serial No. 471,135. 2 Claims. (Cl. 254—103.)



1. In a jack of the class described, in combination, a wheeled platform having a central vertical aperture therethrough, a tubular casing secured to the platform and extending vertically downwardly therefrom, said casing being coaxial with the aperture in the platform and having its lower end closed, a substantially cylindrical pedestal mounted on the top of the platform and arranged coaxially with said aperture and casing, said pedestal having an annular bearing, an internally threaded wheel rotatably mounted on said shoulder, means mounted on the platform for rotating said gear wheel in either direction, and a vertical screw having threaded engagement with said gear and normally extending into said casing, the screw being adapted to be raised or lowered by rotation of said gear, for the purpose set forth.

1,470,181. SHIFTER CLAMPING DEVICE. JULIUS MINTZ, New York, N. Y. Filed Apr. 13, 1922. Serial No. 552,169. 8 Claims. (Cl. 100—57.)



1. In a clamping device, a rail, a rest slidable longitudinally thereof, a post carried by the rest arranged for vertical adjustment, and means carried by the rest arranged to exert downward pressure upon the post.

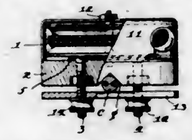
3. In a clamping device, a rail, a rest slidable longitudinally thereof, a post carried by the rest arranged for vertical adjustment, projections carried by the post, and an eccentrically mounted disk carried by the rest, arranged to engage a projection and exert downward pressure upon the post, and means to operate the disk.

8. In a clamping device, a rail, a rest slidable longitudinally thereof, a post carried by the rest arranged for vertical adjustment, projections carried by the post and an eccentrically mounted disk carried by the rest, a flange carried by the disk to engage a projection and exert downward pressure upon the post, means to operate the disk, said flange being provided with openings therethrough for the passage of said projections when said disk is moved to a position to permit the post to be adjusted vertically, and means at each end of said rail to secure same to a table or the like.

1,470,182. PROCESS FOR FINISHING ART GOODS. EDWARD MUEHLBAECHER, Los Angeles, Calif. Filed May 31, 1921. Serial No. 473,958. 4 Claims. (Cl. 91—70.)

1. The process for finishing art goods including coating the surface thereof with a mixture of calcium carbonate and shellac and subjecting the coating to the flame of a blow torch.

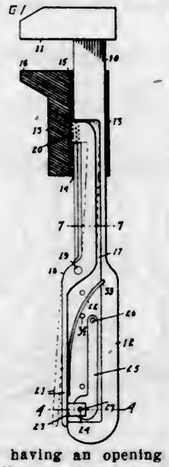
1,470,183. TAKE-UP FOR FLATIRON CONDUCTORS. WILLIAM C. O'BRIEN, Baltimore, Md. Filed May 24, 1920. Serial No. 383,953. 1 Claim. (Cl. 242—109.)



A take-up device for flexible conductors comprising a circular base having a diametrical groove on one side and a spindle projecting centrally from its opposite side, means on the base for clamping the conductor in said groove, a free-running spring reel on said spindle, a cord on the reel, a cord guide secured to the base and adapted to guide the cord in a line tangential to the reel and substantially parallel with said groove, and a casing enclosing the reel.

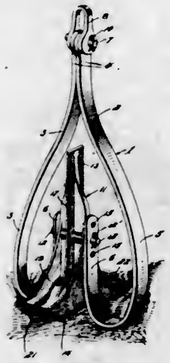
1,470,184. WRENCH. JOHN R. PALMETER, Jamestown, N. Y. Filed Jan. 3, 1922. Serial No. 526,559. 2 Claims. (Cl. 81—136.)

1. A wrench comprising a channel shank and handle, a fixed jaw on the opposite end of said shank from said handle, a slidably mounted jaw portion on said shank having teeth therein adjacent said shank, a spring lever pivotally mounted midway of its length in said channel and extending alongside said handle to be manually gripped, a sidewise toothed end on said spring lever adapted to engage said teeth in said slidable jaw to adjustably hold the same, a projection on the handle portion of



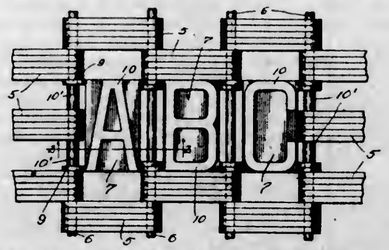
said spring lever having an opening therein, a spring latch in said handle to engage in said opening and hold said lever and jaw in an adjusted position, and a release for said spring latch.

1,470,185. ANCHOR. FRANK B. PARDEY, Warren, R. I. Filed Mar. 11, 1921. Serial No. 451,494. 12 Claims. (Cl. 114—208.)



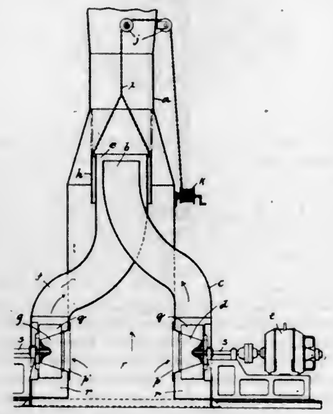
1. In an anchor, a bail, and a fluke pivoted thereto for unlimited swinging movement in either direction relative to said bail.

1,470,186. MAT MARKING. CHRISTEN J. PETERSON, Oak Park, Ill. Filed Jan. 26, 1921. Serial No. 440,037. 3 Claims. (Cl. 15—239.)



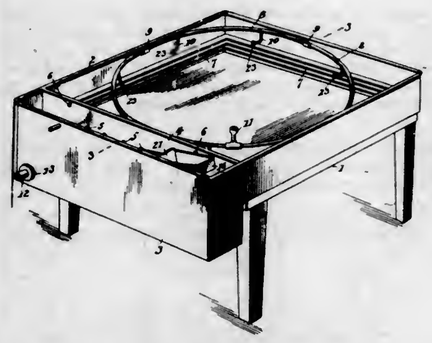
1. A marking device for mats formed of links and cross rods, comprising a plate having a peripheral flange on its lower side and a raised letter on its upper side, said plate also having integrally formed pairs of lugs on its opposite sides, each pair of lugs being provided with aligned openings to receive the cross rods of the mat.

1,470,187. INDUCED AND SUCTION DRAFT DEVICE. GEORGE JULES PRAT, Paris, France. Filed June 4, 1920. Serial No. 386,583. 4 Claims. (Cl. 110—162.)



1. In an induced draft device for chimneys or the like, a fan adapted to work alone to draw only a portion of the gases from the foot of the chimney, a nozzle blowing said portion of gases up the chimney to carry along the remainder of gases, a second fan adapted to draw gases from the foot of the chimney and provided also with a blowing nozzle, and means for shutting off the direct passage of gases up the chimney whereby the two fans are caused to draw together the whole of the chimney gases.

1,470,188. PHOTOGRAPHIC WASHING TANK. DAVID E. PEYDE, Hoquiam, Wash. Filed Apr. 21, 1921. Serial No. 463,108. 7 Claims. (Cl. 95—97.)



1. In a photographic washing apparatus, a tank, a circular water conduit supported therein, angularly bent nipples carried on said conduit, said nipples being disposed in substantially the same direction and certain of said nipples being directed slightly toward the center of the tank, means for supplying water to the conduit, and means for automatically controlling the outlet flow of water from said tank.

1,470,189. INSULATED SUSPENSION STEM FOR ELECTRIC-LIGHTING FIXTURES. ADOLPH C. RECKER, Oakville, Conn., assignor to Chase Companies, Inc., Waterbury, Conn., a Corporation. Filed Aug. 12, 1922. Serial No. 581,341. 2 Claims. (Cl. 240—85.)



1. In an insulated suspension-stem for electric lighting fixtures, the combination with a mounting-member, of a tubular stem permanently connected therewith and depending therefrom, and provided at its upper end with an inwardly-turned flange, and insulating material interposed between the said member and tube at points above and below the said flange to form an outwardly-opening clearance-space which the flange enters, with freedom for canting movement therein.

1,470,190. LINE-SPACE AND CARRIAGE-RETURN LEVER AND PAD FOR TYPEWRITERS. WINIFRED VIOLET REDFERN and ALFRED EDWARD REDFERN, Victoria, British Columbia, Canada. Filed July 10, 1922. Serial No. 574,249. 1 Claim. (Cl. 197—114.)



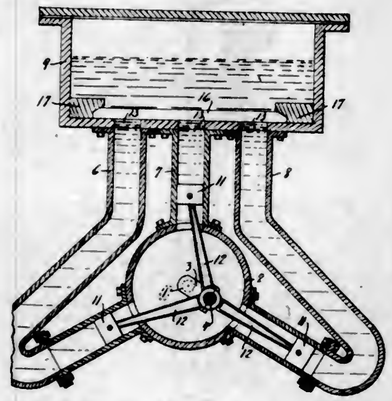
In a line space and carriage return lever of a typewriter, said lever having a thumb or finger engaging portion: an undercut recess in said portion and a resilient member having a pad to overlie said thumb or finger engaging portion and an integral lug corresponding to the recess and adapted to be received thereby.

1,470,191. SHIP-PROPULSION APPARATUS. WILLIAM REID, Newark, N. J. Filed Oct. 1, 1921. Serial No. 504,616. 5 Claims. (Cl. 115—34.)



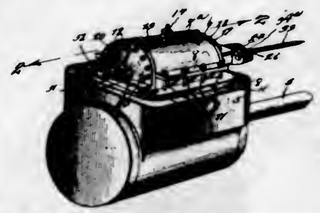
1. In a ship, the combination of a propeller and shaft, a casing surrounding the propeller shaft and having one end open toward and adjacent the hub portion of the propeller, and means to conduct air to the casing so that a stream of air may be drawn from the casing during rotation of the propeller to force aside the water from contact with the hub portions of the blades.

1,470,192. BRAKE FOR SELF-PROPELLING VEHICLES. FLOYD H. RICKER, Los Angeles, Calif. Filed Nov. 9, 1922. Serial No. 599,874. 7 Claims. (Cl. 188—91.)



1. A brake for the drive shaft of a motor vehicle or the like comprising a tube adapted to receive a fluid by gravitation, a piston supporting said fluid having an operative connection with the shaft whereby the piston is reciprocated in the tube when the shaft is rotated and valve means for stopping the reciprocating motion of the fluid so as to prevent the piston from reciprocating and the shaft from rotating.

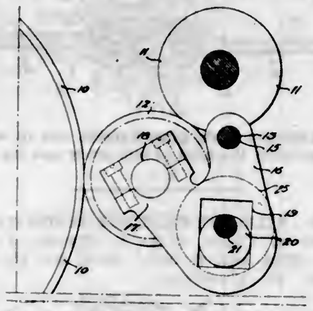
1,470,193. STEAM CHEST AND BALANCE SLIDE VALVE THEREFOR. HERMAN P. ROBINSON, Bristol, Tenn. Filed June 22, 1920. Serial No. 390,803. 3 Claims. (Cl. 121—192.)



1. In a steam chest for balance slide valves, a base having a raised rectangular shaped valve seat, a hood casing semicircular in cross section arching said seat and engaging the opposite sides of the raised rectangular shaped valve seat, longitudinally disposed flanges carried by the hood casing and spaced from the side edges thereof, bolts passing through said flanges and extending into the base, semi-circular heads for said hood casing, said heads engaging the ends of the raised portion forming the valve seat, bolts passing through said heads and into the ends of the hood casing, one of said heads being provided with a stuffing box for the reception of the valve rod, a transversely disposed flange carried by said last named head and disposed above the stuffing box, bolts passing through said flange and into the base and located adjacent the sides of the stuffing box, lugs carried by said head adjacent its lower outer corners and engaging the valve seat base, and bolts passing through said lugs and into the base.

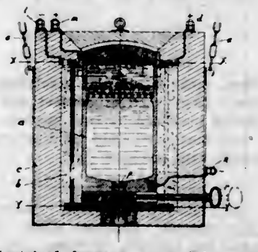
1,470,194. ROLLER-SETTING APPARATUS FOR PRINTING PRESSES. GLENN P. ROBINSON, Philadelphia, Pa. Filed Feb. 28, 1922. Serial No. 539,817. 5 Claims. (Cl. 101—352.)

1. In an apparatus of the character described for setting a roller relatively to two other rollers including a bracket carrying the roller and having an opening and a slot formed therein, a cam operative within the slot to move said bracket to bring the roller into contact with the surfaces of said two rollers, and a member passing



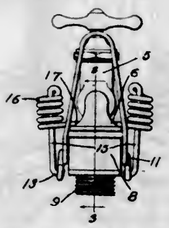
through the opening and pivotally carrying the bracket, the opening in the bracket being greater than the diameter of the member to permit continued movement of the bracket until the surfaces of the roller contact with the adjacent surfaces of said two rollers.

1,470,195. ELECTRIC FURNACE. MICHEL DE ROIBOUL, Paris, France. Filed Sept. 28, 1920. Serial No. 413,423. 2 Claims. (Cl. 204—64.)



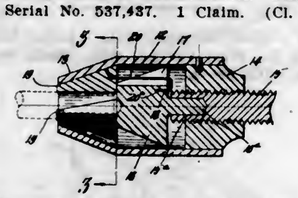
1. In an electrical furnace a crucible, comprising zirconium, yttrium, and erbium oxides, means to heat said crucible to conducting temperature and means for supplying high voltage current to the crucible when heated to conductivity.

1,470,196. HOSE COUPLING. JACOB M. RUHMANN, San Antonio, Tex. Filed Feb. 15, 1921. Serial No. 445,154. 1 Claim. (Cl. 285—171.)



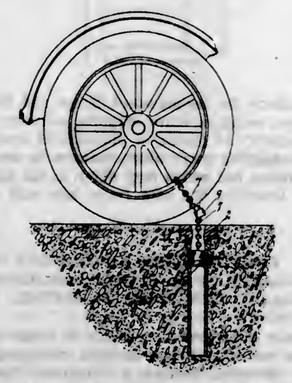
In a hose coupling, a circular body portion having a threaded extension formed integral therewith, laterally extending pins carried by the body portion, an operating lever including a length of wire bent intermediate its end and having loops, a jaw including a length of wire curved intermediate its ends to embrace a portion of a spigot, the last mentioned length of metal having coiled portions, portions of the length of metal extending through the coiled portion and having their extremities extending through loops of the lever, and said pins extending through loops of the lever to secure the lever to the body portion, and said lever adapted to move the spigot engaging section of the lever into close engagement with a spigot when the lever is moved to its active position.

1,470,197. CHUCK. HENRY A. RYTHER, Montague, Mass., assignor to Millers Falls Company, Millers Falls, Mass., a Corporation of Massachusetts. Filed Feb. 18, 1922. Serial No. 537,437. 1 Claim. (Cl. 279—56.)



A chuck comprising, in combination, a shell having a tapered end portion and a fixed internally threaded head, a threaded spindle engaged with the head to enter the shell, a follower movable in the shell, and having a loose separable connection with the spindle, so that a forward movement of the spindle forces the follower toward the said tapered portion, the follower being provided with radial longitudinal slots in its periphery, and with a jaw-guiding face at its forward end, at right angles with the axis of the chuck, jaws having inclined backs conforming to the said tapered portion, and inner end faces conforming to said guiding face, and elongated wire springs of greater length than the follower, extending through and guided radially by said slots, said springs having reversely bent shanks anchored in the rear end of the follower, to prevent independent forward endwise movement of the springs, and obliquely and outwardly extending free ends inserted in outwardly extending oblique sockets in the rear ends of the jaws to fixedly interlock the springs with the jaws and to confine the latter against the follower, the tension of the springs pressing their free ends outward in radial paths determined by said slots, the arrangement being such that when the spindle is moved forward, it presses the follower and jaws forward, and closes the jaws against the pressure of the springs, and when the spindle is moved backward, the springs cooperate with the tapered end portion of the shell to open the jaws and press the follower against the spindle, so that the jaws and the follower move backward with the spindle, the said loose separable connection permitting the separation of the spindle from the follower when the jaws are fully opened.

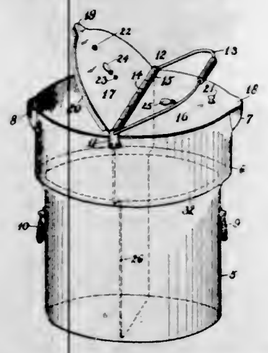
1,470,198. AUTO HITCHING POST. HENRY G. MILLER, Shafter, and MAX M. SELZER, Oakland, Calif. Filed Feb. 9, 1922. Serial No. 535,427. 3 Claims. (Cl. 70—90.)



2. An automobile lock including a tube embedded in the ground, a weight in said tube, a chain in said tube

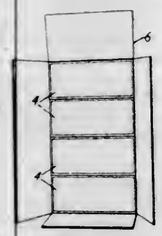
connected at its lower end to said weight a conical-shaped lock connected to the upper end of said chain, a conical seat in the upper end of said tube upon which said lock is held by said weight when not in use, a hasp on said lock for engaging one of the links of said chain, and means for limiting the outward withdrawal of said lock and chain.

1,470,199. COOKING UTENSIL. ADINA SMALL, New York, N. Y. Filed Apr. 14, 1921. Serial No. 461,449. 1 Claim. (Cl. 53—2.)



A cooking utensil comprising a receiving member, a plurality of independent containers operable therein, an annular shoulder formed integral in the walls of said receiving member for supporting said containers and a partition in said receiving member for separating said containers and for retaining them upon said shoulder.

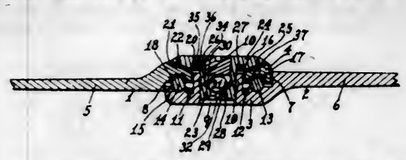
1,470,200. PACKAGE AND METHOD OF PACKING FRAGILE ARTICLES. AUGUSTUS E. SNYDER, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Sept. 25, 1919. Serial No. 326,117. 5 Claims. (Cl. 206—68.)



2. A package for incandescent lamps and the like, resulting from using an outer shipping container of standard dimensions and placing a plurality of lamps in each of several shipping trays which conform to each other in two dimensions but which may differ in the third dimension, and inserting the said trays into said outer container.

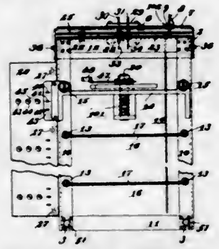
1,470,201. COMPENSATING HINGE JOINT FOR ARTIFICIAL LIMBS. PAUL H. SPRACKLEN, Oakland, Calif. Filed Aug. 31, 1920. Serial No. 407,286. 16 Claims. (Cl. 16—136).

1. A hinge joint including a pair of hinge members, a knuckle on one end of each member, one knuckle having a central threaded opening, a cylindrical bearing ring seated tightly in one of said knuckles, a grooved bearing ring seated tightly in the other knuckle in which grooved ring said cylindrical ring turns, a screw extending through one knuckle and engaging the thread of the



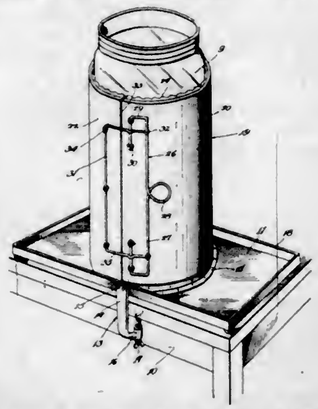
threaded opening in the other knuckle, and an end thrust bearing between the head of said screw and the adjacent knuckle.

1,470,202. SELECTOR RACK FOR AUTOMATIC TELEPHONE SYSTEMS. ALTON E. STEVENS, Providence, R. I. Filed Aug. 2, 1921. Serial No. 489,289. 12 Claims. (Cl. 179—27.5.)



1. A vertical rack; horizontal insulating spacers, one above another; fixed vertical contact bus-bars retained in their relative positions by said spacers; selectors for said rack; and means whereby said selectors may successively engage said bus-bars.

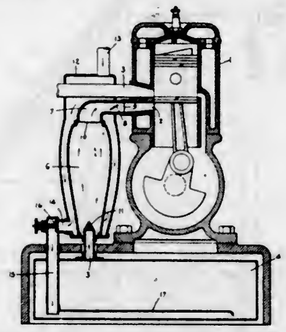
1,470,203. FRUIT-JAR HOLDER. NATHAN P. STONE and HAROLD SAETER, Fosston, Minn. Filed Aug. 3, 1922. Serial No. 579,499. 1 Claim. (Cl. 81—3.3.)



A jar holder comprising a tray having a solid bottom and upturned edges on all sides, clamping means for said tray including a downwardly directed arm secured to one of said upturned edges, a shell open at both ends including semicylindrical mating halves of uniform thickness and having hinged connection along two adjacent edges, a supporting element for one of said shell halves rigidly secured thereto and to said tray, a one piece, resilient lining completely covering the inner walls of said shell halves and the hinged edges thereof, a resilient mat upon said tray within said shell, a self locking latch

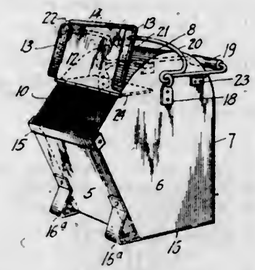
for the shell halves including a lever fulcrumed on said fixed shell half, and links hinged on the loose shell half and having journaled connection with said lever.

1,470,204. FUEL-SUPPLYING MEANS. IRA T. SWARTZ, Indianapolis, Ind., assignor to Swartz Electric Company, Indianapolis, Ind., a Corporation of Indiana. Filed Mar. 15, 1920. Serial No. 365,879. 3 Claims. (Cl. 123—134.)



1. A fuel supplying means, comprising a tank, a restricted outlet for said tank, a receptacle into which the upper end of said outlet extends, said receptacle having a restricted opening at its upper end for controlling the escape of the gaseous mixture from said receptacle, a jacket entirely surrounding said receptacle and spaced therefrom, means for directing air into the space between said receptacle and jacket, means for heating the air as it passes through the jacket, means for conveying the heated air into said tank and through the contents thereof, and a valve for controlling the passage of the air from the jacket to the tank.

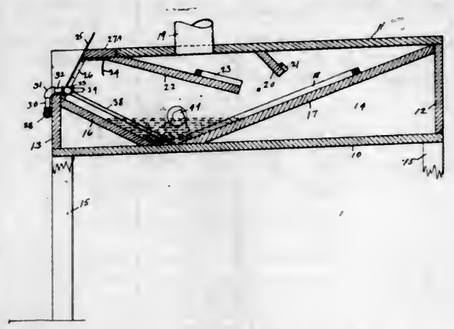
1,470,205. ASH BUCKET. CARL VOGT, Denver, Colo. Filed Apr. 25, 1921. Serial No. 464,096. 8 Claims. (Cl. 220—32.)



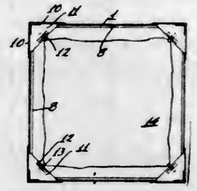
1. A bucket comprising an angular body having a slanting front member, a back member, substantially parallel side members, a curved top member and a flat bottom member formed integrally of a single piece of metal, an edge of the top member being spaced from the upper edge of the front member to form an opening.

1,470,206. FILE-SHARPENING MACHINE. WILLIAM P. WAGNON, Portland, Oreg., and HARRY J. BOMAR, Tacoma, Wash. Filed Oct. 17, 1921, Serial No. 508,407. Renewed Aug. 21, 1923. 2 Claims. (Cl. 51—10.)

1. A file sharpening machine consisting of an elevated box having sump forming inclined floors and a series of baffle plates around which steam must pass before being exhausted, in combination with a pair of converging injectors for carrying material from said sump and projecting same against two sides of a file at the same time, and an overflow pipe having its inlet turned upwardly and rearwardly away from the discharge of the injectors.

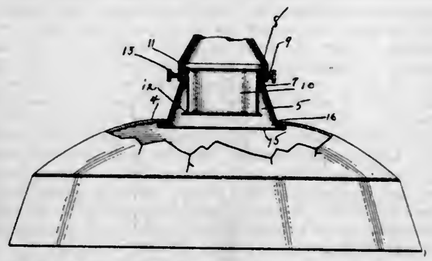


1,470,207. WASTECAN. JAMES WALKER, Columbus, Ohio, assignor to Solar-Sturges Mfg. Co., a Corporation of Illinois. Filed Nov. 5, 1921. Serial No. 512,983. 4 Claims. (Cl. 220—73.)



1. A waste receptacle comprising in combination a plurality of side walls, interlocking means on the adjacent edges of said walls whereby the same may be removably secured together, bracing means secured inside the upper ends of the side walls, and corner braces engaged between the inside of the walls and said bracing means.

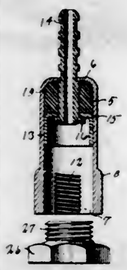
1,470,208. HOLDER FOR LIGHTING UNITS. ROBERT D. WARDELL, Detroit, Mich. Filed Dec. 6, 1920. Serial No. 428,534. 2 Claims. (Cl. 240—128.)



1. In a device of the character described, the combination with an incandescent electric lamp, of a downwardly and outwardly flaring member, the upper end of which is provided with a lip, said member having a shoulder adjacent its smaller end, there being ventilating openings in said member, a cylindrical sleeve fitted to the internal diameter of the said member at its smaller end and slidable therein, a lip at each end of said sleeve, a re-

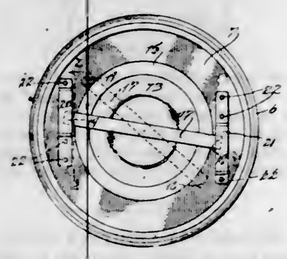
flector member of annular shape secured to the lower end of said downwardly and outwardly flaring member, the opening therein fitting the neck of the lamp.

1,470,209. PUMP COUPLING. NOAH R. WHITE, Delta, Colo. Filed Dec. 13, 1919. Serial No. 344,633. 4 Claims. (Cl. 285—162.)



1. In a connection for hose pipes and tire valve stems, the combination with a valve stem, of a housing for receiving the valve stem, a cup slidably mounted in the housing for receiving the upper end of the valve stem, and compressible resilient means disposed in the housing and engaging the cup for normally urging the cup in fluid tight engagement with the valve stem.

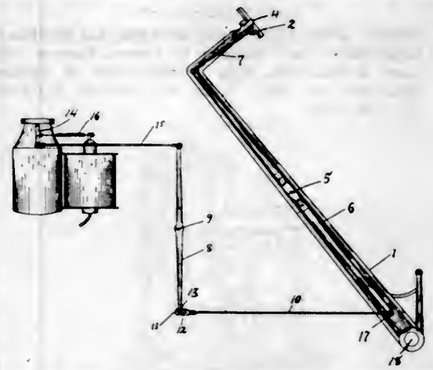
1,470,210. COVER ATTACHMENT. NORMAN H. WHITE, Brookline, Mass., assignor to Auto Vacuum Freezer Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 11, 1921. Serial No. 436,461. 6 Claims. (Cl. 220—57.)



1. In a cover attachment, a rotatable circular cover, a clamping-bar having flat end projections secured rigidly and diametrically across the cover, said projections extending beyond the cover rim, a container having an annular reentrant head with an inner concentric opening for the cover, and a pair of elongated and mutually parallel loop recessed channel members, each tangentially disposed adjacent said cover opening with its spaced-apart ends secured to said reentrant head, said members having their recessed channels arranged obliquely to radial lines across said cover openings, whereby said bar end projections when rotated slidingly engage said members with a mutually increasing surface to thereby frictionally hold said clamping-bar and cover in position on said opening.

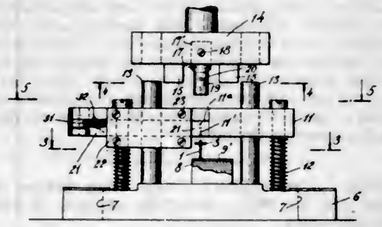
1,470,211. ACCELERATOR FOR AUTOMOBILES. ERNEST W. BAETER, Van Wert, Ohio. Filed Dec. 30, 1921. Serial No. 526,023. 3 Claims. (Cl. 74—81.)

1. In combination with the service brake lever of an automobile and the throttle thereof, a pedal pivoted on the brake lever and having movement relative thereto; a movable member having actuating relation with the throttle; and a rocking member having pivotal support on the movable member and actuated relation at its opposite ends respectively with the pedal and the brake



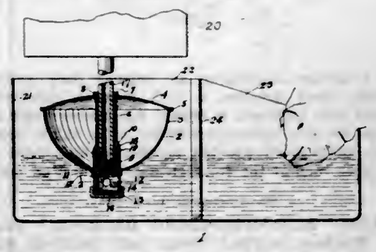
lever so that the throttle is operable by tilting movement of the pedal and inoperable by movement of the brake lever.

1,470,212. TOOL FOR ASSEMBLING SPOOL HEADS ON ELECTROMAGNET CORES. EDWARD BERGMAN, New York, N. Y., assignor to C. Brandes, Incorporated, a Corporation of New York. Filed Aug. 11, 1922. Serial No. 581,156. 8 Claims. (Cl. 29—85.)



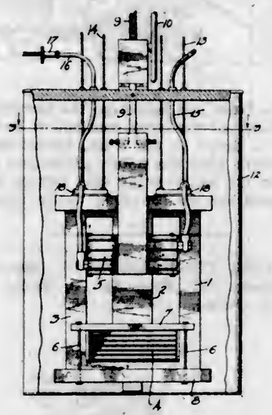
1. In a tool of the class described, a base for supporting a magnet core, a punch, a yieldable intermdiate member having a slot for clearing the magnet core, and a recess for receiving and positioning one of the spool heads, said punch being operable to effect a movement of said intermediate member toward said base and thereby to force both spool heads on to said core.

1,470,213. FLOAT VALVE. WALTER M. BLACK, Eaton, Ind. Filed Nov. 21, 1921. Serial No. 516,557. 2 Claims. (Cl. 137—104.)



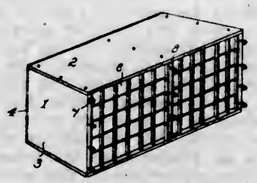
1. A float valve structure comprising a hollow buoyant float member, a tube arranged to extend axially through said float member and to project beneath the same, the said lower projecting end of said tube being provided with a port, a closure for the lower end of said tube, a stationary liquid supply pipe extending into said tube, and an adjustable sleeve carried by the lower end of said pipe and movable toward and away from said closure.

1,470,214. ALTERNATING-CURRENT TRANSFORMER. JULIUS R. BRUECKNER, Detroit, Mich., assignor to Gibb Instrument Company, Detroit, Mich., a Corporation of Pennsylvania. Filed Aug. 23, 1920. Serial No. 405,466. 5 Claims. (Cl. 171—119.)



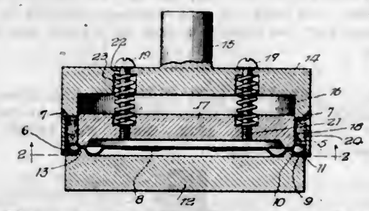
1. An alternating current transformer for use in electric arc welding comprising a core formed with three legs of magnetic material connected together at the top and bottom, the "windows" between the legs being of a width substantially one fourth their length providing a short air gap, a primary circuit having a coil at the bottom of the central leg, a secondary circuit, a movable coil therein on the central leg above the primary coil, means for holding the secondary coil at any of its possible distances from the primary, the secondary coil and circuit being free from ohmic resistance other than that inherent in the wire forming the same and the resistance of the arc.

1,470,215. EGG CRATE. CHRISTIAN NESSEN BRUHN, Cedar Falls, Iowa. Filed Sept. 25, 1922. Serial No. 590,442. 1 Claim. (Cl. 217—[illegible])



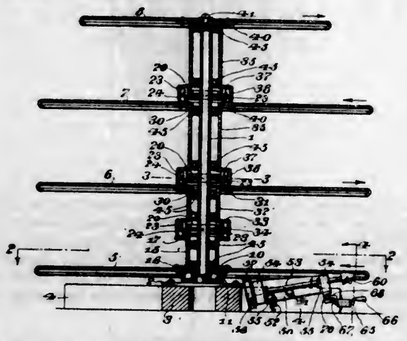
A crate having one longitudinal side open and having a partition leading to the open side, a closure plate for said open side having over said partition edge a row of openings and having over each abutting end edge of the crate a row of longitudinal end recesses, screw-eyes inserted in said partition and in said crate edges traversing said openings and said recesses respectively with their eys extending beyond the outer face of the closure plate, and rods passed through the rows of said eyes, each rod having a head wider than the opening in the abutting eye, and the other end of each rod being bendable about the abutting eye to removably secure it in place.

1,470,216. METHOD OF EXTRACTING WATER FROM PULP GASKETS. WILLIAM F. BUTLER, Hillside, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 9, 1921. Serial No. 460,109. 16 Claims. (Cl. 113—80.)



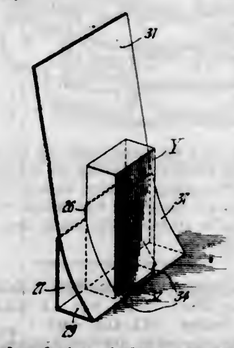
1. The process of providing fibre gaskets in flanged can ends adapted to be interfolded with the flange of flanged can bodies to form hermetic closures, which comprises applying a fluid pulp to the flange of the end and pressing and absorbing the fluid constituent therefrom.

1,470,217. DISPLAY DEVICE. CARL CLAUS, Philadelphia, Pa. Filed Feb. 2, 1922. Serial No. 533,522. 12 Claims. (Cl. 211—20.)



4. In a display device, the combination of a stationary column support, a plurality of tables adapted to be supported upon said support in spaced relation to each other, and means whereby the said tables may be supported so that each may be rotated independently of the other or so that rotation of one of the said tables may cause rotation of all of the others.

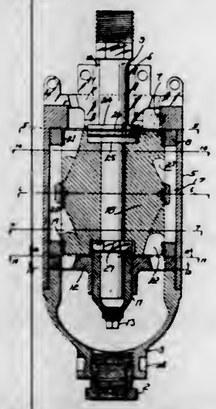
1,470,218. DISPLAY DEVICE. ADOLPH DIETSCHE, Jr., New York, N. Y., assignor to American Lithographic Company, New York, N. Y., a Corporation of New York. Filed Mar. 17, 1922. Serial No. 544,423. 2 Claims. (Cl. 211—24.)



2. In a display device of sheet material adapted for use in connection with a container or the like, the com-

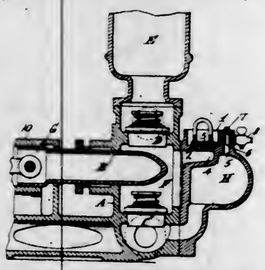
bination of a backwardly reaching main panel having an opening therethrough adapted for receiving the article to be displayed, a base member articulated at its forward edge to said main panel, a rear panel articulated at its lower edge to the rear edge of said base member, a leg extending downwardly from said main member into the opening thereof, and means on said rear panel adapted for interlocking with the opening in said main panel and with said leg.

1,470,219. TURBINE-FLUE CLEANER. CHARLES S. RICHMAN and ERNEST OTTO FECHNER, San Francisco, Calif. Filed Apr. 4, 1922. Serial No. 549,551. 3 Claims. (Cl. 253—3.)



1. A turbine for boiler flue cleaners comprising a stator having two series of inclined slots with passageways extending from one slot to another of the series, and a rotor having two series of slots, said rotor fitting the stator whereby steam will pass from one end of the rotor out through the same into the stator and then back into the rotor to drive the same.

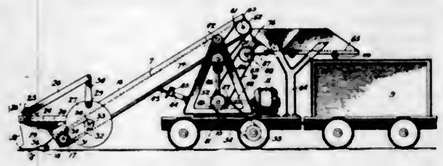
1,470,220. PUMP. WILLS M. FLEMING, Holyoke, Mass., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Aug. 10, 1921. Serial No. 491,108. 10 Claims. (Cl. 103—203.)



1. Priming means for pumps and the like, comprising a liquid receiving receptacle having an opening for admitting liquid to the pump cylinder, means for closing said opening, and an air supplying connection with said receptacle adapted to be sealed by the liquid therein during the priming operation.

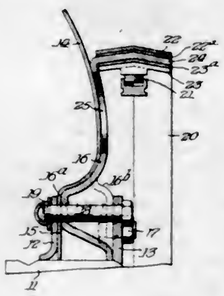
1,470,221. LOADING APPARATUS. JAMES M. FREEMAN, Washoe, Mont. Filed Nov. 14, 1919. Serial No. 338,091. 7 Claims. (Cl. 198—10.)

1. In loading apparatus, the combination of a truck, a conveyor pivoted to swing horizontally and supported on the truck for lateral adjustment, a shovelling device adjacent one end of and adjustable with the conveyor, a hopper stationarily mounted on the truck independently of the conveyor and having fixed sides and one of its ends extended to receive material from the conveyor in its different lateral adjustments and its other end extended to



overhang the truck and discharge the material in a car behind and adjacent the truck, said hopper having a movable bottom, a motor on the truck, mechanism for driving the conveyor from the motor, mechaniam also driven by the motor for reciprocating said bottom, and mechanism for operating the shoveling device from the conveyor.

1,470,222. DISK-WHEEL ASSEMBLY. GEORGE H. FORSYTH, Chicago, Ill. Filed Apr. 3, 1922. Serial No. 549,219. 6 Claims. (Cl. 301—63.)

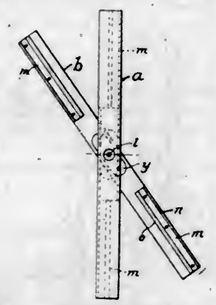


6. In a disk wheel, the combination of a hub having front and rear flanges spaced apart, a disk body disposed in the hub zone at the rear of the front flange, and a brake drum having its front wall formed as a disk-supporting member bearing on the rear of the disk outwardly of the hub zone and having portions laterally offset towards the front and rear within the hub zone and bearing respectively one against the rear of the disk opposite the front flange and the other against the front of the rear flange, bolts securing the last mentioned portions to the rear flange, and attaching bolts transfixing the two flanges and the interposed disk and forwardly offset portions of the supporting member, the brake drum having an opening in its front wall normally closed by the disk when on the hub and through which access may be had to the interior brake mechanism when the attaching bolts are released and the disk is demounted.

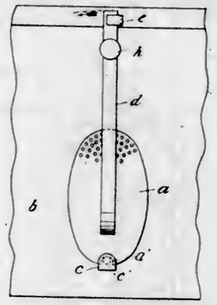
1,470,223. WINDOW. HENRY C. GEORGE, Philadelphia, Pa. Filed June 15, 1922. Serial No. 568,387. 2 Claims. (Cl. 20—49.)

1. In a window structure comprising a sash and a shoe associated therewith, means for pivotally connecting said shoe and sash comprising a pair of pivot members, one mounted on the shoe and the other on the sash, the pivot member connected to the shoe having a flanged hollow boss seated in a recess in the shoe, the pivot member on the sash having a flanged hollow trunnion journalled in the hollow boss of the pivot member on the shoe, a fastening

member for securing the pivot members to each other against movement along the axis of the members and extending through the flanges of the hollow trunnion and the hollow boss, and means for securing the fastening member to the shoe.



1,470,224. TEAPOT AND LIKE VESSEL. FRANK E. GORDON, Sheffield, England. Filed Mar. 26, 1923. Serial No. 627,850. 1 Claim. (Cl. 53—3.)



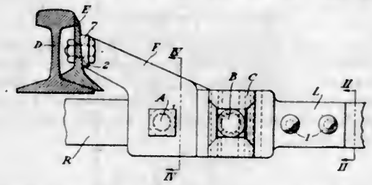
The combination with a vessel, of a strainer comprising a perforated plate shaped to fit against the spout opening in the vessel, said plate being provided with a handle extending upwardly from the plate to the upper portion of the vessel and the said plate being also provided at the lower end with a notch, a lower clip mounted on the vessel and open at the top and sides and provided with a horizontal pin engaged by the notch of the said plate whereby the strainer is supported by the said clip, and a horizontal catch mounted on the vessel at the upper portion thereof and open at one side and closed at the other and engaging the handle, the latter being adapted to swing into and out of the said catch.

1,470,225. REMOVAL OF SCALE AND RUST FROM IRON AND STEEL. HARRY N. HOLMES, Oberlin, Ohio. Filed Jan. 17, 1921. Serial No. 437,995. 4 Claims. (Cl. 75—198.)

1. The method of removing rust or scale from iron or steel, consisting in pickling the same in an acid bath containing at least one-fifth of 1% by volume of an aldehyde to inhibit the attack of the acid upon the base metal.

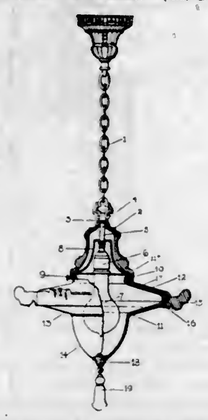
1,470,226. RAILWAY-SWITCH-OPERATING MEANS. CHARLES J. KELLOWAY, Wilmington, N. C. Filed Jan. 22, 1923. Serial No. 614,200. 4 Claims. (Cl. 246—450.)

3. In combination, a railway switch comprising a switch point, a switch foot attached to said point and provided with a hole, a switch rod capable of reciprocating motion and inserted in said hole, a beveled shoulder on said foot, a lug rigidly fastened to said rod and having a beveled shoulder, a bolt passing through said foot and said rod,



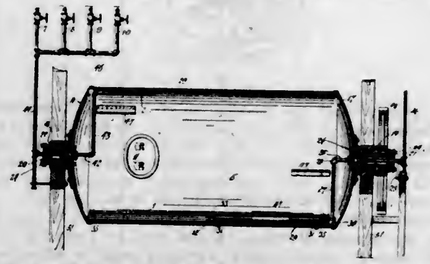
a wedge, and means for causing said wedge to engage said beveled shoulders whereby to prevent lost motion between said foot and said rod.

1,470,227. LIGHTING UNIT. MAX KLEIN, New York, N. Y., assignor to Shapiro & Aronson, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 19, 1920. Serial No. 404,623. 2 Claims. (Cl. 240—78.)



1. The combination of a lighting unit with means of suspension, a canopy supported thereby, a nipple secured within said canopy, a socket and bulb secured to said nipple, a globe holder mounted on said nipple and within said canopy, a one-piece bowl having its upper edge engaged and closed by the canopy, means on said holder to support the middle portion of said globe, said means comprising an annular member surrounding and protecting the middle portion of the globe.

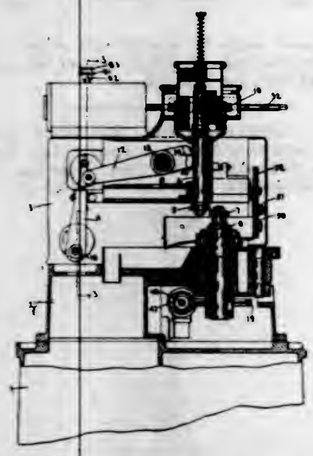
1,470,228. RENDERING PROCESS. JOSEPH LISTER, deceased, late of Chicago, Ill.; by Edwin Lister executor, Chicago, Ill. Filed June 9, 1917, Serial No. 173,734. Renewed Feb. 3, 1923. 9 Claims. (Cl. 87—13.)



1. A rendering process which consists of (1) treating the stock by the direct action of steam; (2) allowing the stock to settle while kept hot but without dilution; (3)

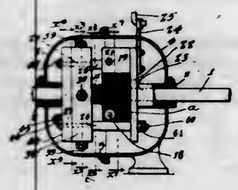
drawing off hot, undiluted glue liquor; (4) treating the stock by the direct action of steam; (5) adding hot water to float the tallow above the residue; and (6) skimming off the tallow.

1,470,229. GEAR-SHAPING MACHINE WITH SIDE-TRIMMING ATTACHMENT. EDWARD W. MILLER, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a Corporation of Vermont. Filed Nov. 15, 1921. Serial No. 515,292. 16 Claims. (Cl. 90—9.)



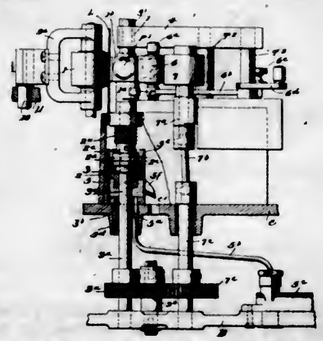
1. In a gear-shaping machine, having means for effecting relative planing movement between a gear-formed cutter and a gear blank, and means for giving simultaneous rotary generative movements to the cutter and work piece; means for imparting additionally to one of the members of the couple constituted by the cutter and gear blank a relative rotatoinal movement such that the toothlike projections on the cutter are caused to overlap the teeth cut in the gear blank at one side thereof, whereby further operation of the machine in a normal manner effects side-trimming of the teeth previously cut.

1,470,230. TIMER. GEORGE WILLIAMS, Santa Ana, Calif. Filed Jan. 21, 1920. Serial No. 353,062. 2 Claims. (Cl. 200—21.)



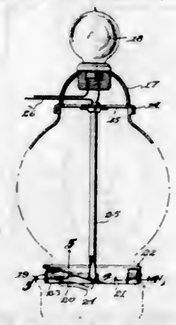
2. In a timer, the combination of a rotatably mounted shaft, a support rotatably mounted on the shaft, means to rotate the support, a toothed clutch member loose on the shaft, a second toothed clutch member fixed to the shaft and adapted to drive the first clutch member when the shaft is turned in one direction and to be inoperative to drive the first clutch member when the shaft is turned in the opposite direction, ratchet teeth on the periphery of the first clutch member, a contact member secured to the support and having an electric contact and a detent on the contact member engageable by the ratchet teeth to prevent rotation of the first clutch member when the shaft is turned in the second named direction.

1,470,231. POSTMARKING AND STAMP-CANCELING MACHINE. WALTER H. BOWES, Stamford, Conn. Filed May 13, 1921. Serial No. 469,305. 15 Claims. (Cl. 101—235.)



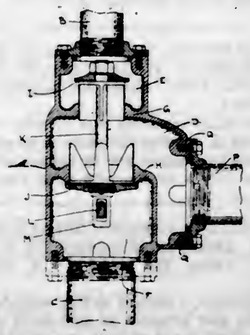
1. For mechanism of the character specified, a die spindle, printer, and stop arm, all formed integral, for the purpose specified.

1,470,232. VENDING MACHINE. JAMES A. DUCKETT, Columbus, Ohio. Filed Feb. 1, 1922. Serial No. 533,258. 6 Claims. (Cl. 34—21.)



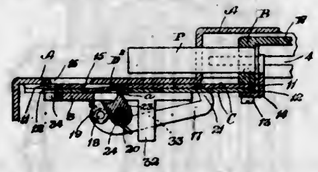
1. In a vending machine, a reservoir for articles to be dispensed, a delivery mechanism connected therewith, and a heating device arranged around the periphery of the reservoir bottom which heats said periphery only and located adjacent the path of the articles from the reservoir to the delivery mechanism.

1,470,233. CONTROLLING VALVE FOR HYDRAULIC OIL STORAGE AND DISTRIBUTION SYSTEMS. FREDERICK G. FARR, New York, N. Y. Filed Feb. 9, 1922. Serial No. 535,422. 6 Claims. (Cl. 277—14.)



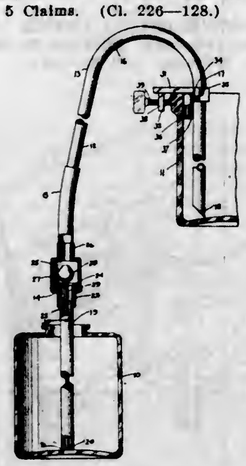
1. A valve comprising a casing formed of a single piece of material having parallel alinement ported partitions dividing the same into inlet and outlet chambers and an intermediate chamber, a delivery connection to said intermediate chamber arranged below the level of the partition separating the same from said outlet chamber, and valves for alternatively closing the ports of said partitions.

1,470,234. COIN-CONTROLLED MECHANISM FOR VENDING MACHINES. ALBERT D. GROVES, New York, N. Y., assignor to Autosales Corporation, a Corporation of New York. Filed Sept. 26, 1918. Serial No. 255,768. 25 Claims. (Cl. 194—93.)



2. In a coin-controlled vending machine, a hand-operable coin-carrier adapted to receive a prescribed plurality of coins and carry them into operative position, and an ejecting member controlled by the combined action of all of said coins, said member remaining inoperative when an insufficient number of coins is deposited, said coin-carrier being adapted to return an insufficient number of coins to a refunding position.

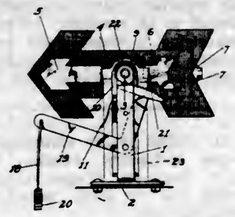
1,470,235. FILLING APPARATUS. HENRY A. HOUSE, Jr., Buffalo, N. Y. Filed Feb. 16, 1921. Serial No. 445,487. 5 Claims. (Cl. 226—128.)



1. In a filling apparatus, a tube, a valve in said tube, a valve stem normally projecting from the mouth of said tube, said tube having a hole through its wall below said valve, a sleeve mounted to reciprocate on said tube normally below said hole, an arm projecting from said sleeve normally below the mouth of said tube, whereby when the mouth of the tube is on the bottom of the receptacle to be filled the valve will be unseated and the sleeve will be raised to cover said hole.

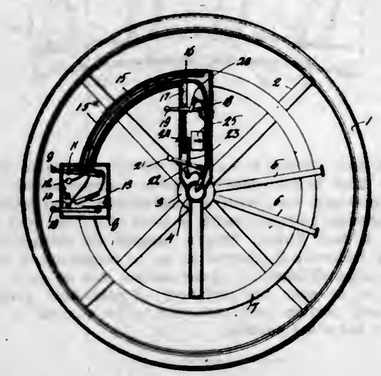
1,470,236. DIRECTION SIGNAL FOR AUTOMOBILES. JOSEPH F. LYNCH, Stockton, Calif. Filed Aug. 28, 1922. Serial No. 584,641. 5 Claims. (Cl. 116—51.)

1. A direction signal structure for vehicles comprising a pair of turnable shafts extending longitudinally of the vehicle on opposite sides thereof, signal members mounted on the shafts at right angles thereto, pinions on the shafts, bell cranks arranged in opposed relation to each other mounted in fixed relation with



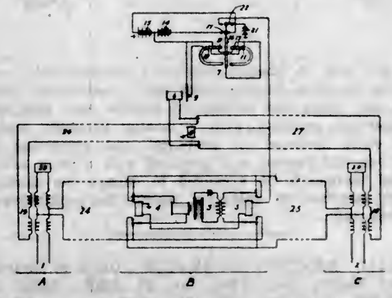
the shafts, segmental gears on one end of the bell cranks, and means applied to the free ends of the latter for moving the same simultaneously and in opposite directions.

1,470,237. STEERING-WHEEL SWITCH CONTROL. EDGAR J. MARTEL, Laconia, N. H. Filed Dec. 16, 1919. Serial No. 345,191. 10 Claims. (Cl. 200—44.)



1. An electric switch control adapted to be mounted upon the steering post of a car, comprising a curvilinear supporting member above the post, a casing thereon, switch levers and locking means therefor, and locking means for the casing in said casing.

1,470,238. REPEATER SYSTEM. ROBERT C. MATHES, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Substitute for application Serial No. 230,978, filed Apr. 26, 1918. This application filed Apr. 5, 1921. Serial No. 458,857. 8 Claims. (Cl. 179—170.)

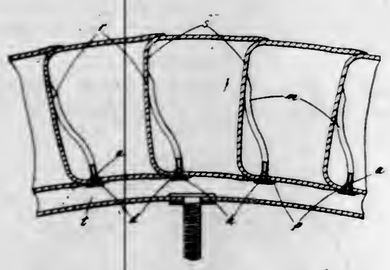


1. The combination of a telephone line, a balancing line therefor, a repeater for said line, and an alternating current relay for controlling said repeater, said re-

peater comprising terminals, and said relay and said terminals being associated in conjugate relation to said lines.

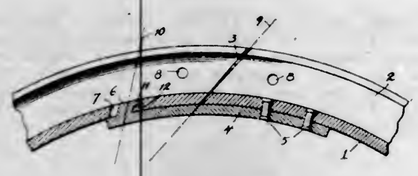
7. A two-way repeater system comprising two lines, a repeater adapted to be reversibly connected thereto, and means comprising a single voice operated relay device for reversing the repeater connections for transmission in either direction between said lines.

1,470,239. AIR TUBE FOR PNEUMATIC TIRES. THOMAS BAKER MCLEROTH, London, England, assignor to T. B. McLeroth (Tubes) Limited, London, England. Filed Feb. 9, 1923. Serial No. 617,930. 6 Claims. (Cl. 152—22.)



1. A stud for use in an air tube for pneumatic tires, of the kind hereinbefore set forth, constituted by two main portions, one with a substantially axial passage therethrough and comprising a head and neck, and the other, a base formed with a passage or passages arranged transversely thereof so as to communicate with the passage through the other portion and so as to debouch at or near the periphery of said base portion, said base portion being adapted to be secured to the neck of the other portion.

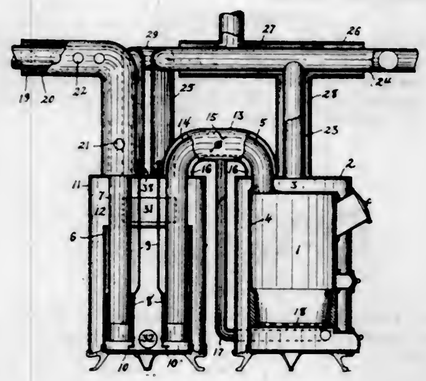
1,470,240. DEMOUNTABLE RIM FOR VEHICLE WHEELS. FREDELLIA H. MOYER, Johnstown, Pa. Continuation in part of application Serial No. 770,314, filed May 28, 1913. This application filed Sept. 14, 1917. Serial No. 191,474. 1 Claim. (Cl. 301—30.)



A tire rim of integral continuity provided with continuous reception flanges, being split transversely thereof at one point and having cut therein near said split an aperture provided with a locking shoulder, and a rigid cleat mounted on said rim and projecting beyond one end thereof and provided with a hook having formed thereon a rib arranged to engage the shoulder in said aperture to unite but permit the separation of said rim ends.

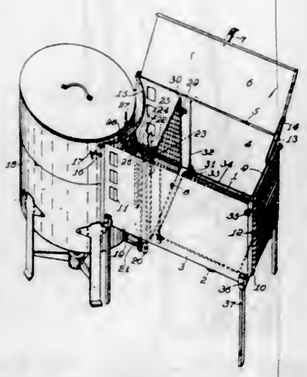
1,470,241. HEATING APPARATUS. DAVID S. MURPHY, Fort Wayne, Ind. Filed Jan. 27, 1923. Serial No. 615,233. 5 Claims. (Cl. 126—108.)

3. In combination with a stove, a drum surrounding the stove and having an open bottom, there being a space between the walls of the drum and the shell of the stove; a smoke pipe for the stove; a jacket surrounding said smoke pipe and having openings therein, there being a



space between the inner walls of the jacket and said smoke pipe; and a pipe connection between said jacket and with said stove at a point beneath the grate thereof.

1,470,242. CLOTHES-DRYING DEVICE. ROBERT M. OVERTON, Waterloo, Iowa. Filed Feb. 24, 1921. Serial No. 447,562. 6 Claims. (Cl. 34—19.)

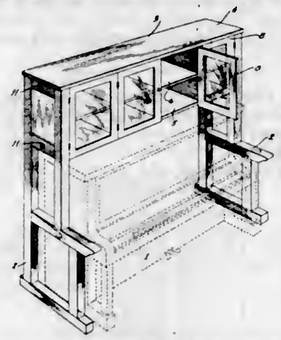


2. A device of the character described, comprising a hollow casing composed of foldably-connected sections provided with openings, a rotatable fan-wheel positioned in said casing, and an orificed partition dividing the interior into a fan-wheel chamber and a clothes-receiving chamber.

1,470,243. OVERHEAD PIANO CABINET. FRANCESCO PANICO, Brooklyn, N. Y. Filed Mar. 9, 1923. Serial No. 623,855. 4 Claims. (Cl. 211—7.)

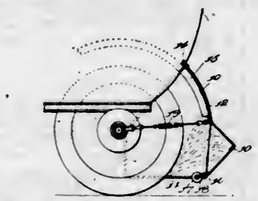
1. An overhead piano cabinet embodying an enclosure of substantially the same length as the piano with which it is adapted for cooperation and standards associated

with the opposite ends of the enclosure and extending downwardly past the opposite ends of the piano and rest-



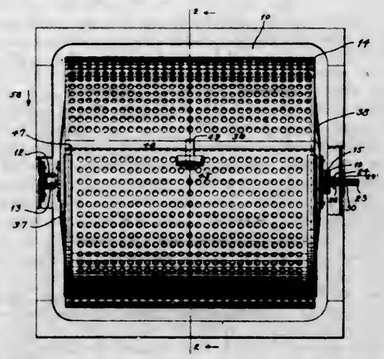
ing upon the floor for the purpose of supporting the enclosure above the piano and independently thereof.

1,470,244. DUST SHIELD AND COLLECTOR FOR AUTOMOBILES. HERBERT H. PIPER, Jackson, Mo. Filed Oct. 27, 1922. Serial No. 597,235. 3 Claims. (Cl. 280—159.)



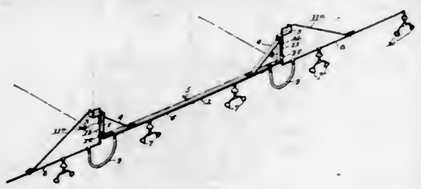
1. A dust shield and collector for automobiles, comprising a shield attached to the rear portion of an automobile, said shield having side extensions covering the rear side of the hind wheels and positioned to catch the dust agitated by the moving wheels, and a flexible connection between the shield and rear axle, substantially as specified.

1,470,245. CYLINDER WASHING MACHINE. GEORGE SLIDER, Baltimore, Md. Filed Sept. 27, 1921. Serial No. 503,564. 2 Claims. (Cl. 68—18.)



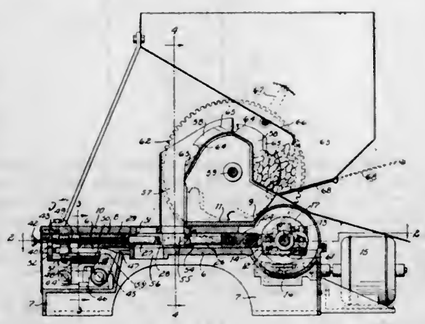
1. The combination with a clothes container, a suds container, a U-shaped bearing supported on one side of said suds container and a pintle on one end of said clothes container mounted in said bearing, of a disc comprising a slot revolubly mounted in the other side of said suds container, a locking block secured to the other end of said clothes container and mounted in said slot, a pin for locking said disc and block together, and means on the exterior of said suds container for moving said pin to unlock said disc and block.

1,470,246. SPRAY BAR. LELAND WILLIS and OLIN F. WOODWORTH, Grenloch, N. J., assignors to Bateman and Companies, Incorporated, Wilmington, Del., a Corporation of Delaware. Filed Sept. 1, 1920. Serial No. 407,529. 9 Claims. (Cl. 299—39.)



1. The combination in a spray bar of a supporting member; an arm mounted on one end of said supporting member and projecting at a right angle therefrom; a main supply pipe carried by the supporting member; an extension pipe movably mounted on said arm; and a conduit flexibly connecting said main pipe and extension pipe.

1,470,247. NUT-CRACKING MACHINE. HERMANN WILMS, St. Louis, Mo., assignor, by direct and mesne assignments, to The Wilco Machine Company, St. Louis, Mo., a Corporation of Missouri. Filed Oct. 19, 1921. Serial No. 508,697. 14 Claims. (Cl. 146—12.)

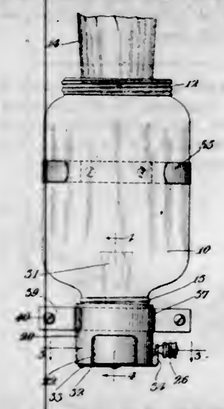


1. In a nut-cracking machine, an axially yieldable anvil-plunger, a reciprocatory hammer-plunger disposed in axial alinement with said anvil-plunger, means for locking said anvil-plunger, a plunger rod carried by said hammer-plunger for actuating said locking means to lock said anvil-plunger at a predetermined point of the forward movement of said hammer-plunger, and yieldable means on the lock-engaging end of said lock actuating plunger, whereby the hammer-plunger is permitted to complete its forward stroke.

1,470,248. CONTAINER. ERNEST W. WILLS, Great Kills, N. Y. Filed Mar. 17, 1922. Serial No. 544,520. 1 Claim. (Cl. 221—66.)

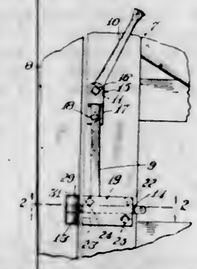
A container comprising a hollow transparent cylindrical body, having reduced upper and lower open ends, a cap removably engaged with the upper end, a cylindrical casing screwed on the lower end of said body, said casing having an opening in its side wall and a slot opposite the opening, a cylindrical shutter operable in said casing

adapted to control the opening therethrough, a knob engaged with said shutter passing thru the mentioned



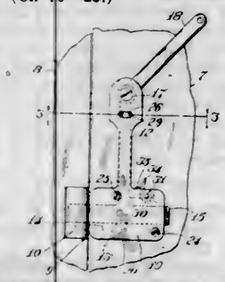
slot, a resilient agitator carried by said shutter operable in said body and resilient means on the exterior of said casing for normally closing said shutter.

1,470,249. GATE LATCH. WILLIAM S. WITTEN, Chicago, Ill. Filed May 16, 1921. Serial No. 470,205. 5 Claims. (Cl. 292—238.)



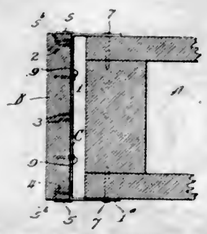
1. A latch comprising a latch member having a shank, an operating arm at the upper end thereof and integral therewith, a pivot bearing at the juncture of said shank and arm, a cross-head at the lower end of said shank, one end portion of said cross-head constituting a latch-bolt, a bracket supporting said pivot bearing, and a frame having side plates between which said cross-head swings and by which it is supported against lateral strains.

1,470,250. LOCK AND LATCH. WILLIAM S. WITTEN, Chicago, Ill. Filed May 16, 1921. Serial No. 470,206. 7 Claims. (Cl. 70—29.)



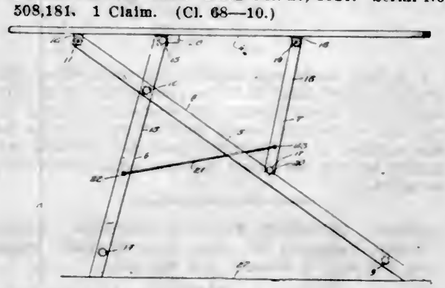
1. A latch comprising a frame adapted to be secured to one side of a door, a shank pivotally mounted at its upper end in said frame, a latch bolt at the lower end of said shank and normally projecting beyond one end of said frame, a pin connected with and projecting laterally from said shank adjacent to the pivot thereof, and extending through a slot in the door to which the latch is applied, for moving said latch bolt out of operative position, and an operating arm connected with the upper end of said shank.

1,470,251. JAMB FASTENING. JOHN E. AHLVIN, Joliet, Ill. Filed June 12, 1919. Serial No. 303,682. 4 Claims. (Cl. 20—92.)



1. A fastening device for the purpose set forth comprising a sheet metal bar equipped with an integrally formed brad projecting at right angles to the bar, and equipped also with an elbow-form brad integral with the bar, said bar having an extremity projecting beyond said elbow-form brad and adapted for attachment to a wall, said extremity being disposed substantially at right angles to the body of said bar, and said elbow-form brad being located at the junction of the body of the bar with the bent extremity.

1,470,252. IRONING TABLE. FLOYD BAKER, Cicero, Ill., assignor to Sears, Roebuck & Co., Chicago, Ill., a Corporation of New York. Filed Oct. 17, 1921. Serial No. 508,181. 1 Claim. (Cl. 68—10.)



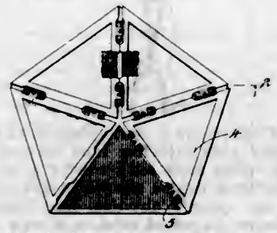
An ironing table comprising an ironing board, a supporting structure therefor comprising a plurality of members pivotally connected together between their ends, one of said members being pivotally connected at its upper end to said ironing board and extending in a downwardly inclined direction toward the opposite end of said board, said board being provided with a stop surface between said last-referred-to pivotal connection and the opposite end of the board, and the upper end of the other of said members engaging said stop surface in the extended position of said supporting structure, the one of said members which is pivoted to said board having a stop-forming portion, a member pivoted at its upper end to the board and adapted to engage at its lower end with said stop-forming portion, and a link structure operatively connecting said last-named member with the one of said first-referred-to members other than the one recited as pivotally connected at its upper end to said ironing board, to cause the said last-named member and the member with which it is connected, to move in unison, the whole being so constructed and arranged that when the supporting structure is extended said last-named member engages said stop-forming portion and the one of said first-named members other than the one pivoted to said board, engages said stop surface.

1,470,253. IMITATION FIRE. HERBERT HENRY BERRY, London, England. Filed Oct. 3, 1922. Serial No. 592,065. 1 Claim. (Cl. 240—2.)



A construction simulating a fuel bed for imitation fires, consisting of a slab of translucent material molded comparatively smooth on the inner surface and having pieces of opaque light diffusing and fuel-simulating material embedded in the outer surface.

1,470,254. TRUCK. ADELMER A. BISHOP, Racine, Wis.; Emma Maude Bishop administratrix of said Adelmer A. Bishop, deceased. Filed Mar. 8, 1921. Serial No. 450,609. 2 Claims. (Cl. 246—24.)



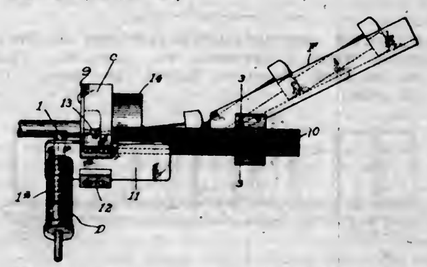
1. A truck body having a plurality of vertical partitions of equal width extending radially from the center thereof, and dividing said body into a series of equal compartments, all but one of said partitions having a cover hinged to its upper edge, said cover being movable on its hinge to cover either of the compartments adjacent thereto with its free edge portion resting on the partition between the compartments so covered and an adjoining compartment.

1,470,255. SKINNING KNIFE. ROBERT BLADES, Chicago, Ill. Filed Aug. 21, 1922. Serial No. 583,197. 8 Claims. (Cl. 17—21.)



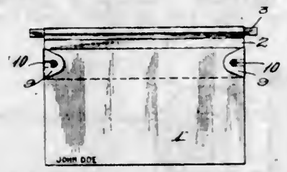
1. In a knife, a casting comprising a handle and a blade housing, a conduit through said handle to said housing, a supply pipe for said knife, a threaded fixture connecting said pipe with said conduit, the handle being provided with orifices whereby the fixture is readily reached for screwing or unscrewing.

1,470,256. BLANK HOLDER AND EJECTING DEVICE FOR BOLT MACHINES. SAMUEL B. CLAY, St. Louis, Mo. Filed June 11, 1921. Serial No. 476,879. 26 Claims. (Cl. 10—89.)



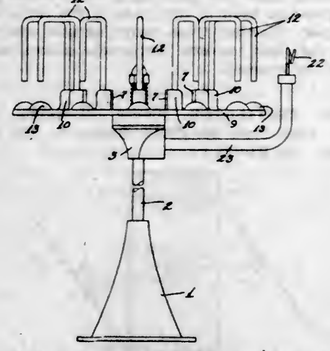
26. A bolt machine, comprising a reciprocating carriage, a holder on said carriage in which bolt blanks can be arranged end to end and fed forwardly towards the mechanism which acts on the blanks, said holder being so constructed that the end blank can be discharged therefrom by a side blow, an ejecting device on said carriage comprising a cylinder and a plunger in said cylinder, a valve for admitting an operating medium to said cylinder, and a tripping device that causes said valve to act automatically during the return stroke of the carriage.

1,470,257. INDEX-CARD SUPPORT. GEORGE H. DAWSON, Cambridge, Mass., assignor to Library Bureau, a Corporation of New Jersey. Filed Dec. 5, 1921. Serial No. 520,185. 4 Claims. (Cl. 129—16.7.)



1. In a card index system, a sized fabric hinge member having a card-attaching portion, a hinge portion extending at an angle to said card-attaching portion, and a bar-attaching portion extending at an angle to said hinge portion.

1,470,258. SPOOL HOLDER. HERMAN EHRLICH, Chicago, Ill. Filed May 5, 1922. Serial No. 558,648. 7 Claims. (Cl. 242—139.)



1. In a spool holder, a vertical standard, a pair of relatively rotatable concentric member mounted on said standard, spool holding spindles pivoted on one of said members and tiltable for removal of a spool therefrom when said members are in a predetermined circumferential position and untiltable when said members are in a different predetermined position, and means for locking said members from relative rotation in such latter position.

1,470,259. SPRING CLAMP. BERTHA EHRMAN, St. Louis, Mo. Filed Jan. 27, 1923. Serial No. 615,225. 2 Claims. (Cl. 24—87.)



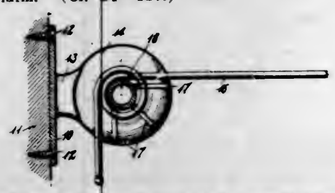
1. A spring clamp comprising two U-shaped body members each having hooks, a long loop and a short loop; and

a tensional spring connecting said body members and having eyes arranged to engage with the long loop or the short loop of either member.

1,470,260. HARDENED WATER-REPELLENT GYPSUM PLASTER AND METHOD FOR PRODUCING THE SAME. JOSEPH W. EMERSON, Salida, Colo. Filed Aug. 15, 1921. Serial No. 492,478. 15 Claims. (Cl. 106—34.)

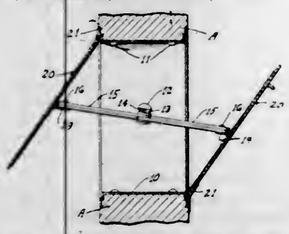
1. An article of manufacture comprising "set" or hydrous gypsum plaster, the pores of which are substantially filled with sulphur.

1,470,261. BRACKET. LORETTA C. HARRINGTON, St. Paul, Minn. Filed Apr. 18, 1922. Serial No. 554,426. 1 Claim. (Cl. 24—127.)



A bracket comprising a fastener member including a body portion, a central core, said body portion being provided with a circumferential cutaway portion leading to said core, whereby a rope may be passed upwardly over and outwardly with respect to said core and have free movement thereon and means within said cutaway portion confined below the plane of the uppermost part of said core and in front of the plane or the rearwardmost part thereof, whereby a rope encircling said core will be gripped and held against retrograde movement, substantially as described.

1,470,262. VENTILATOR. OSCAR HENRIKSEN, Argyle, Minn. Filed Sept. 16, 1921. Serial No. 501,140. 5 Claims. (Cl. 98—27.)



1. A ventilator of the character described including an element having a passage therethrough open at its opposite ends, closure plates hinged to the element at the ends of the passage, one of said closure plates being hinged to the top wall of the passage and the other to the bottom wall of the passage, and means for simultaneously opening or closing the closure plates including an oscillatably mounted cross bar, and a lazytongs operatively supported upon the cross bar and having opposite portions operatively connected to the closure plates.

1,470,263. PISTON RING. WILLIAM R. HESLEWOOD and HARRY F. MOCINE, Oakland, Calif., assignors to Harry F. Mocine, William R. Heslewood, George J. Carr, and E. B. Kimball, trustees of The M. and H. Piston Ring Company. Filed May 18, 1921. Serial No. 470,511. 1 Claim. (Cl. 74—109.)



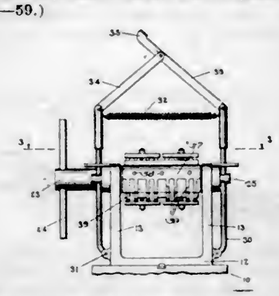
A piston ring of the character described comprising a pair of superposed circumferentially expansible split rings, an expansion ring interposed between the same, said expansion ring being flat in cross section and constructed of thin spring steel and split to permit circumferential expansion, and also having a corrugated or wave like surface formed to permit vertical expansion, and a pair of recesses formed in the adjacent faces of the first named rings, one recess in each ring to receive opposed corrugated portions of the interposed ring and to prevent turning movement of the several rings.

1,470,264. HOOK FOR EYEGLASS CHAINS. CHARLES L. HOGUE, Oakland, Calif. Filed Feb. 9, 1922. Serial No. 535,240. 2 Claims. (Cl. 24—237.)



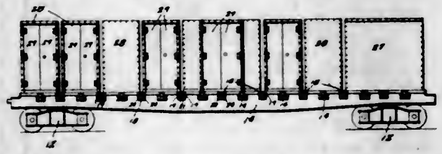
1. A hook comprising a single piece of wire bent into an eye, spring arms extending from the eye, the upper ends of the spring arms being twisted in one direction and the arms being twisted together approximately in the middle in the opposite direction, said arms diverting above and below the second twist, said arms terminating in U-shaped hooks.

1,470,265. WORKHOLDING ATTACHMENT FOR MILLING MACHINES. ARTHUR S. HOLMES, Oshkosh, Wis. Filed June 18, 1921. Serial No. 478,613. 10 Claims. (Cl. 90—59.)



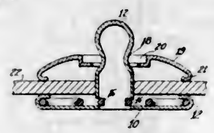
1. A work holding attachment for milling machines and the like comprising in combination a base adapted to be secured to the bed of the machine, a work holder mounted on said base to swing vertically and provided with a plurality of work holding means arranged equidistantly from the axis of said work holder, and releasable bolts for engaging said holder and holding the same so as to present a piece of work in operative position.

1,470,266. INTERCHANGEABLE-UNIT CARRIER. HENRY WILLIAM KIRCHNER, St. Louis, Mo. Filed Feb. 16, 1920. Serial No. 359,071. 13 Claims. (Cl. 105—366.)



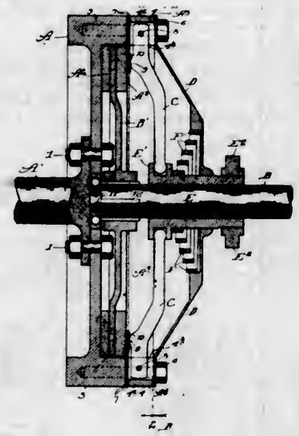
12. The combination of a carrier, a plurality of downwardly facing hooked members pivoted adjacent the floor of said carrier, a removable container mounted on said carrier and provided with upwardly facing pockets in its side walls, and means for moving said members on their pivots to enter said recesses to secure said containers on said carrier.

1,470,267. SNAP FASTENER. MAX F. KIESSLING, Waterbury, Conn., assignor to American Fastener Company, Waterbury, Conn., a Corporation of Connecticut. Filed Apr. 25, 1922. Serial No. 556,509. 6 Claims. (Cl. 24—208.)



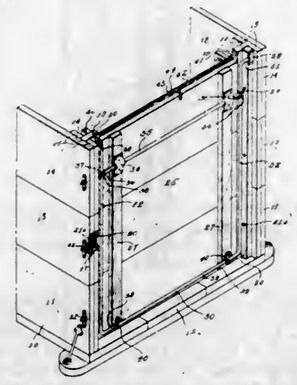
1. In a snap-fastener, a stud member, a socket member for detachably receiving the end of said stud member, said socket member comprising a base, a shank, and a washer, said shank being closed at the top and provided with a reduced neck portion intermediate its length, the top of said shank being adapted to be headed over upon said washer, the diameter of the closed top and the bottom of said shank being substantially the same in their original condition, before the top of the shank has been headed over upon the stud member.

1,470,268. CLUTCH MECHANISM. JACOB LAUTH, Chicago, Ill. Filed Apr. 30, 1920. Serial No. 377,739. 1 Claim. (Cl. 192—68.)



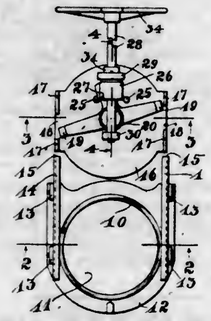
In clutch mechanism, the combination of a wheel provided with a flange, a pair of clamping members encircled by said flange, a shaft equipped with a wheel having its peripheral portion interposed between said clamping members, a ring comprising segmental blocks provided with radial slots and segmental blocks alternating with said first-named blocks, levers having their outer ends pivoted in the slots of said first-named blocks, a housing member having a hub portion through which said shaft extends, bolts connecting said housing member and said segmental blocks to the flange of said first-named wheel, a sleeve mounted on said shaft and extending through the hub portion of said housing member, said sleeve having its inner end equipped with a bearing for said levers and its outer end equipped with means for actuating the sleeve, and a spring interposed between the hub portion of said housing member and the inner ends of said levers.

1,470,269. COMBINATION SCOOP BOARD AND END GATE. WILLIAM LAWRENCE, Harcourt, Iowa. Filed Sept. 13, 1921. Serial No. 500,393. 6 Claims. (Cl. 296—59.)



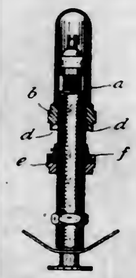
1. In a device of the class described, spaced parallel and vertically arranged supports, a scoop board having its lower end pivotally and slidably mounted in and between the lower ends of said supports, a bail member pivotally mounted on the upper ends of the said supports having parallel and downwardly extending portions and a transverse portion connecting their lower ends, a horizontally arranged rod pivoted to the upper end of said scoop board and slidably mounted on the downwardly extending portions of said bail, the said portions being designed to rest substantially parallel with the scoop board when the same is in an upright position, and a locking device for securing the transverse portion adjacent to said scoop board.

1,470,270. DOUBLE-LEVER GATE LOCK. FRANK S. LIVINGSTON, Los Angeles, Calif., assignor to Snow Manufacturing Company, Los Angeles, Calif. Filed Sept. 17, 1921. Serial No. 501,474. 8 Claims. (Cl. 251—56.)



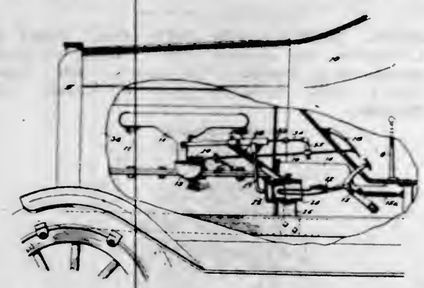
1. In a gate-valve, a base-plate having a passage therethrough with a surrounding valve seat, guiding channels on the base-plate having each one shank spaced from the face of the said valve seat, a cover-plate having an engaging face to co-act with the valve seat and having engaging edges projecting in the opposite direction from the cover-plate to coact with the spaced shanks of the guiding channels, and an operating lever on the cover-plate having wedge-shaped engaging ends to wedge between the cover-plate and the spaced shanks, the said engaging edges being broken away to allow free movements of said lever between said cover-plate and said spaced shanks and adapted to guide the cover-plate while the lever is in inoperative position.

1,470,271. VALVE FOR PNEUMATIC TIRES. ROBINSON SCALING BURN, Birmingham, England. Filed Oct. 9, 1922. Serial No. 593,262. 1 Claim. (Cl. 152—12.)



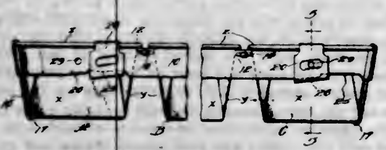
In valves for pneumatic tires the combination of a cap member closed at the upper end and having an internal screw thread to engage a screw-thread on the valve body, a tapered recess at the open lower end of the cap member extending without break or step from said open end to the internal bore of the cap, a rim-nut screwed upon the valve body below the cap, and a tapered resilient washer carried on the upper face of the rim-nut and surrounding the valve body, the angle which the sides of the recess in the cap member make with the vertical being greater than that made by the sides of the resilient washer so that the lower end of the cap gathers and compresses the upper part of the resilient washer snugly around the valve body to form an air-tight joint therewith.

1,470,272. ENGINE-CONTROLLED CLUTCH-RELEASING MEANS. ROSS IVANHOE BELCIA, Ged, La. Filed Dec. 9, 1919. Serial No. 343,580. 14 Claims. (Cl. 74—107.)



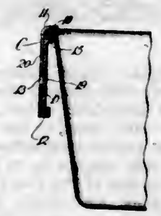
7. The combination with an automobile motor having a throttle and a clutch, of means controlled by the throttle for automatically holding the clutch in disengaged position at minimum motor speed arranged to release the clutch for movement to engaged position when the speed of the motor is increased.

1,470,273. CLAMP FOR BAKING PANS AND THE LIKE. LOUIS H. DEBS, Chicago, Ill., assignor of one-half to Albert Cohn, Chicago, Ill. Filed Feb. 6, 1922. Serial No. 534,382. 13 Claims. (Cl. 53—6.)



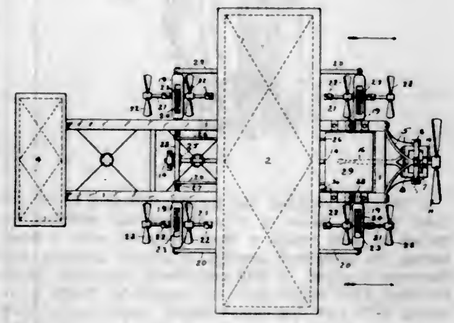
1. In combination with a plurality of pans arranged in a row, each having its upper edges outturned, means for securing said pans together comprising a strapping arranged at each side of the row, and a connection between the strappings and each pan end including a clamp having a hook adapted to overlie the pan edge, and another hook adapted to underlie the strapping lower edge on which is formed an inclined face, the latter hook being inclined also to move wedgingly along the strapping whereby the latter is tightened against the under side of the pan's outturned edge, substantially as described.

1,470,274. BAKING PAN. LOUIS H. DEBS, Chicago, Ill., assignor of one-half to Albert Cohn, Chicago, Ill. Filed Feb. 13, 1922. Serial No. 536,325. 10 Claims. (Cl. 53—6.)



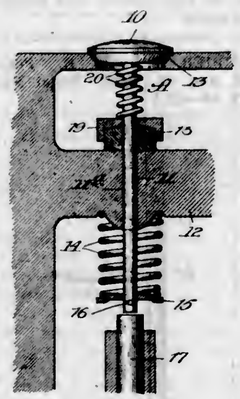
1. The combination with a plurality of pans arranged side by side, each having an outturned edge, of means for connecting the several pans in unitary relation comprising a strap from which portions are laterally bent to provide hooks each adapted to overlie the edge of one pan, and from which other portions are laterally bent in the same direction to provide guideways which face the pan edges in inclined relation thereto, and a plurality of wedge elements, one adapted to slide within each guideway and to present a portion of itself beneath the edge of the proximate pan to thereby maintain the strap hook in engaging relation therewith, substantially as described.

1,470,275. AEROPLANE. LORENZO FERRARI, Oakland, Calif. Filed Mar. 15, 1919. Serial No. 282,823. 1 Claim. (Cl. 244—25.)



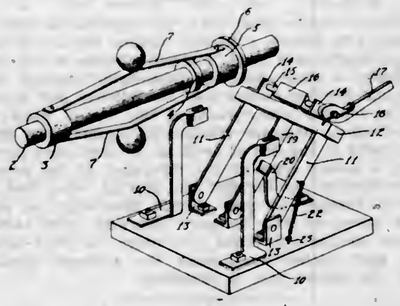
A flying machine having, in combination, a frame, oscillating yokes pivotally mounted upon said frame, arbors extending transversely through said yokes carrying on each side thereof a series of propellers, means for driving said arbors consisting of a pulley mounted on each arbor in the opening of each yoke a main driving shaft mounted upon said frame provided with a pulley, belts connecting said pulleys together and adapted to transmit the power from said shaft to said arbors.

1,470,276. PACKING DEVICE FOR VALVE STEMS. ALBERT C. LINDBLOOM, Chicago, Ill. Filed June 5, 1922. Serial No. 565,832. 5 Claims. (Cl. 123—188.)



1. Means for packing the valve stems of internal combustion engines comprising a felt like material adapted to surround said valve stem within the intake passage of the engine and a spring adapted to extend between the valve and said material for compressing the material about said valve stem.

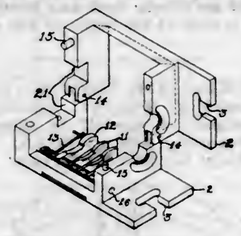
1,470,277. AUTOMATIC REGULATOR. ANDREW B. LOFTUS, Archbald, Pa. Filed Apr. 24, 1922. Serial No. 556,246. 8 Claims. (Cl. 200—80.)



1. An automatic regulator including a switch; a latch member mounted on the switch; means associated with the switch and latch permitting an actuating instrumentality to operate the latch in one direction without operating the swich; and means for effecting operation of the switch when the latch is moved in another direction.

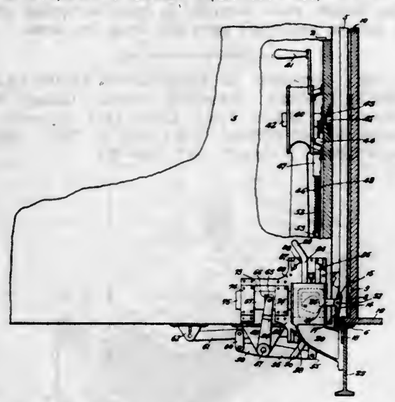
1,470,278. TYPOGRAPHIC NUMBERING MACHINE. PETER MALEWIG and JOSEPH WALLACE, Chicago, Ill. Filed Sept. 23, 1922. Serial No. 590,132. 6 Claims. (Cl. 101—88.)

1. In a numbering machine, a set of printing number wheels, mechanism for actuating said wheels to bring the numerals in proper order into position at the printing face of the device and a frame for housing and supporting said mechanism, said frame including two pairs of end



members, one pair at each end of the frame, the members of each pair being pivoted together adjacent the printing face of the device.

1,470,279. ELEVATOR INTERLOCK. THOMAS A. MELVILLE, Jerome, Ariz. Filed June 12, 1922. Serial No. 567,759. 7 Claims. (Cl. 187—49.)



5. In a safety elevator interlocking device, the combination with the shaft door, the elevator car, the controller, means for locking the controller, manually operated mechanism on the car and a guide member adapted to be positioned by said mechanism, of means mounted independently of the car for locking the shaft door comprising a hinged member pivotally secured at the landing, a cam actuating means for said hinged member comprising a cam having a roller thereon adapted to cooperate with said guide member to lock and unlock said door upon actuation of said mechanism.

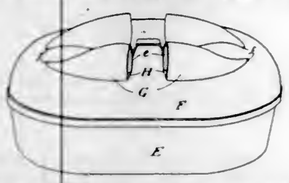
1,470,280. IDENTIFICATION CLAMP. HERBERT V. MCCULLOCH, Minneapolis, Minn. Filed Apr. 17, 1922. Serial No. 553,818. 1 Claim. (Cl. 24—258.)



An identification clamp comprising an approximately U-shaped spring metal body formed with parallel slots, a yoke having parallel ears passed through the slots in the arms of said clamp body, and a cam-acting lever pivoted to the projecting ends of the ears of said yoke and operating to clamp the arms of said body onto an article passed between the same, said yoke immedi-

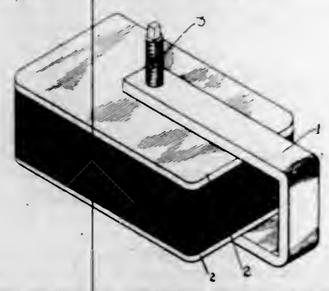
ately adjacent to its transverse base portion having outwardly offset channels interlocking the same to one of the arms of said clamp body and locating the arms of said yoke inward of the edges of the arms of said clamp body.

1,470,281. FRYING AND ROASTING PAN COVER. GEORGE FREDERICK MOHLMAN, Edmonton, Alberta, Canada, assignor of one-half to Edward Howard Molstad, Edmonton, Alberta, Canada. Filed June 14, 1922. Serial No. 568,222. 1 Claim. (Cl. 53—7.)



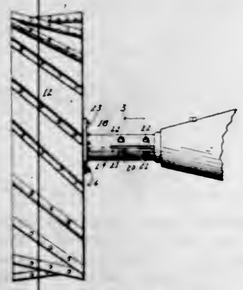
In a frying and roasting pan, a pan and a cover having hooded vents tapering in horn like shape from open mouths projecting upwardly from the cover.

1,470,282. METHOD OF PRODUCING LOOSE-LEAF-BINDER COVERS. GEORGE W. NEWMAN, Chicago, Ill., assignor to Wilson Jones Loose Leaf Company, a Corporation of Illinois. Filed July 8, 1922. Serial No. 573,681. 5 Claims. (Cl. 154—2.)



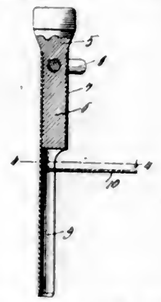
1. The method of producing blanks for binder covers from a roll of pyroxylin coated fabric, which consists in cutting the blanks obliquely to the direction of the fibre, stacking a plurality of blanks in superimposed relation with these edges in alinement, compressing said blanks and singeing, and fusing the edges thereof.

1,470,283. REAR-AXLE EXTENSION DEVICE FOR TRACTORS. JOHN L. OPITZ, Clarinda, Iowa. Filed Dec. 5, 1922. Serial No. 605,018. 2 Claims. (Cl. 180—73.)



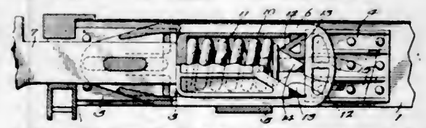
1. A device of the class described, comprising a body portion having at one end a cylindrical opening designed to receive a tractor rear axle, means for securing a tractor rear axle in said cylindrical opening, an extension axle member formed on the body portion and designed to be inserted in a tractor wheel hub, means for securing it therein, and a disk shaped member formed on the body portion, and means for clamping it to a tractor wheel.

1,470,284. DIGGER. THOMAS E. POOLER, Pueblo, Colo. Filed Aug. 27, 1921. Serial No. 496,080. 2 Claims. (Cl. 55—18.)



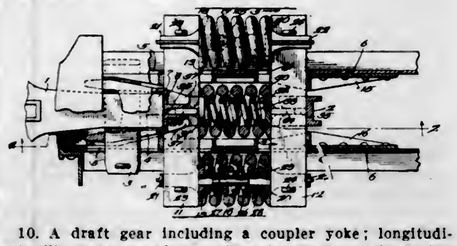
2. An implement of the class described comprising a handle having an elongated shank, a tube fitting over said shank and provided with a blade, and a wedge shaped pin passing transversely through the tube and the shank of the handle.

1,470,285. FRICTION DRAFT GEAR. HERMAN C. PRIEBE, Blue Island, Ill. Filed Jan. 29, 1921. Serial No. 440,986. 14 Claims. (Cl. 213—26.)



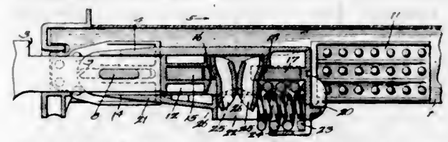
1. In a friction draft gear, the combination with a coupler yoke having a friction surface angular to the line of draft; of a single follower movable in the line of draft; a block structure frictionally engaging the aforesaid friction surface and the follower and moved by the follower transversely of the line of draft; a second block structure frictionally engaging the first and moved in the line of draft by the first block structure; a spring opposing the movement of the second block structure by the first and serving, when free to act, to reverse the gear effected movements of said block structures and follower; and draft sills having motion limiting formations with which the block structure that frictionally engages the aforesaid surface upon the coupler yoke is engageable.

1,470,286. DRAFT GEAR. HERMAN C. PRIEBE, Blue Island, Ill. Filed July 23, 1921. Serial No. 487,170. 14 Claims. (Cl. 213—49.)



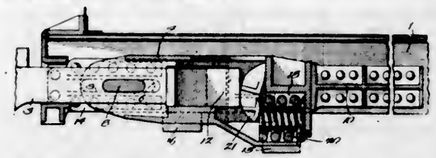
10. A draft gear including a coupler yoke; longitudinal sills between which said yoke is disposed: a follower surrounded by the yoke; a longitudinal spring engaging the follower; and a spring seat upon the follower, said spring seat having longitudinal tongue and groove engagement with the yoke permitting movement of the spring seat longitudinally of the yoke while in assembly therewith.

1,470,287. DRAFT GEAR. HERMAN C. PRIEBE, Blue Island, Ill. Filed Dec. 12, 1922. Serial No. 606,522. 7 Claims. (Cl. 213—41.)



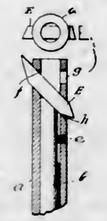
7. In a draft gear, the combination with a coupler having a yoke carrying an outwardly facing spring receiving seat upon its inner end; of a spring having its inner end upon said seat; an outer follower; and two rockers having opposed convex co-acting curved surfaces extending transversely of the gear, one of these rockers being engaged by the inner end of the aforesaid follower and the other of the aforesaid rockers being engaged by the inner end of the yoke, the latter rocker also having engagement with the outer end of the aforesaid spring.

1,470,288. DRAFT GEAR. HERMAN C. PRIEBE, Blue Island, Ill. Filed Dec. 12, 1922. Serial No. 606,523. 3 Claims. (Cl. 213—41.)



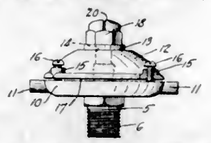
1. In a draft gear, the combination with a coupler having a yoke one of whose sides carries two outwardly facing spring receiving sockets whose bottoms are upon the inner end of the yoke; of two longitudinal springs, each socket having a spring therein; an outer follower enclosed by the yoke; and a rocker having engagement with the inner end of the aforesaid follower, the inner end of the yoke, and also with the outer ends of the aforesaid springs.

1,470,289. TWIN-HEAD BORING BAR. GOMMAIRE RACHARD, New York, N. Y. Filed Oct. 13, 1922. Serial No. 594,414. 5 Claims. (Cl. 29—96.)



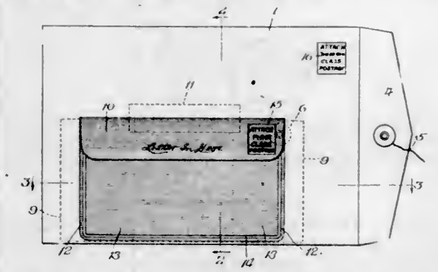
1. In a device of the kind described, a main body having a longitudinal bore internally threaded at its rearward end, the wall of said main body being provided at one side adjacent to its forward end with tool receiving openings spaced longitudinally one from the other, one of said openings having spaced forward and rear sides disposed at an angle of 90 degrees relative to the longitudinal axis of the main body, the second of said openings having spaced forward and rear sides disposed at an angle of 45 degrees relative to the longitudinal axis of the main body, the wall of said main body being further provided at its opposite side with a third tool receiving opening having spaced forward and rear sides disposed at an angle of 45 degrees relative to the longitudinal axis of the main body and alined respectively with the forward and rear sides of the second opening, said third opening being so disposed that the inner transverse edge of its forward side and the outer transverse edge of its rear side are respectively alined opposite the forward and rear sides of said first opening, a clamp bar extending forwardly through the bore of said main body, and a set screw threaded in the rear end of said main body to thrust said clamp bar into operative holding engagement with a tool selectively positioned relative to said tool receiving openings.

1,470,290. SAND-FILTER VALVE. MATHEW F. RYAN, Florence, Mass. Filed Nov. 20, 1922. Serial No. 602,258. 4 Claims. (Cl. 210—171.)



1. A device of the character described comprising a tubular body member having one end threaded, the side portions of the stem above the threaded portions thereof having outlet openings, the upper portion of said body member being reduced and threaded and provided with an opening adapted to communicate with the tubular body portion, strainer means carried by said stem, and a nut engaged with the upper portion of said stem for connecting said means to the stem, said nut having openings to permit the passage of matter through said nut into the stem.

1,470,291. DUPLEX ENVELOPE. JOSEPH SAWDON, Quincy, Ill. Filed May 18, 1921. Serial No. 470,552. 10 Claims. (Cl. 229—72.)

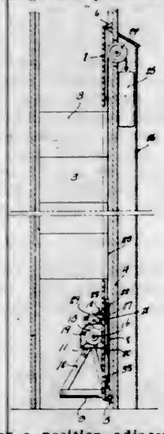


10. A combination two-compartment envelope formed to provide a main compartment for third or fourth-class matter and a letter compartment disposed upon the front of the envelope and having a sealing flap, the front face of the combined envelope for the area of the letter compartment being colored differently from the remainder of the front face of the envelope.

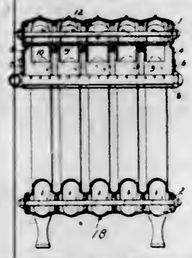
1,470,292. SILO ELEVATOR. EWALD SCHEUNERT, Silver Creek, Wis. Filed Sept. 30, 1922. Serial No. 591,507. 3 Claims. (Cl. 187—1.)

3. An elevator comprising a vertical chain secured adjacent its lower and upper ends in a fixed position, a car adapted to travel along said chain, said car comprising a back portion mounted to the rear of said chain, a sprocket wheel mounted in front of said chain and operably engaging it, manual means for driving

said wheel, a platform having one end pivoted to said back portion, a pair of links connecting the upper portion of said back with the outer portion of said platform and permitting said platform to occupy an extended position or a position adjacent said back, a detent carried by said car and normally engaging said chain to lock the car in fixed position, a foot lever operatively connected to said detent, and resilient means biasing said dent to locking position.

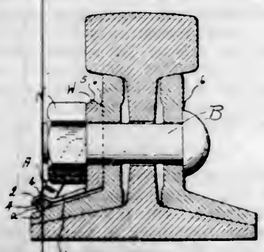


1,470,293. GAS-HEATED RADIATOR. GEORGE P. SCHMITT, Oakland, Calif. Filed Mar. 12, 1923. Serial No. 624,586. 7 Claims. (Cl. 126—91.)



1. In a stove of the gas-radiator type, a radiating unit having a fire box near the top thereof and a superheating chamber above said fire box, the chamber being open for circulation.

1,470,294. NUT LOCK. EMANUEL W. SELL, Cleveland, Ohio. Filed Oct. 15, 1921, Serial No. 507,943. Renewed Mar. 14, 1923. 3 Claims. (Cl. 151—59.)



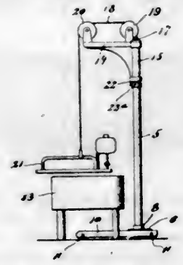
1. In combination with a nut, a bolt and the work associated therewith; a nut lock comprising a washer engaging the bolt between the nut and the work, said washer being provided with a laterally disposed resilient arm terminating in a hook member facing the direction away from the nut, a substantially U-shaped member having its side arm spaced apart a distance to receive the nut therebetween the intermediate portion of the U-shaped member having a face arcuate in cross section with which the hook member of the arm engages from above, said U-shaped member resting upon the work.

1,470,295. HOG RING. CHARLES W. SHELDEN, Diagonal, Iowa. Filed Apr. 13, 1923. Serial No. 631,903. 2 Claims. (Cl. 119—135.)



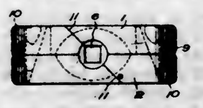
2. A nose ring of the class described formed of two pieces of wire of substantially the same length having their central portions arranged substantially at right angles to each other and secured together at their intersection, the ends of each of said members being formed with hook portions, the corresponding hook portions of each of said members being parallel to each other.

1,470,296. TOOL-SUPPORTING STAND. JOHN F. STEDMAN, Tigard, Oreg. Filed Mar. 20, 1922. Serial No. 545,149. 2 Claims. (Cl. 248—5.)



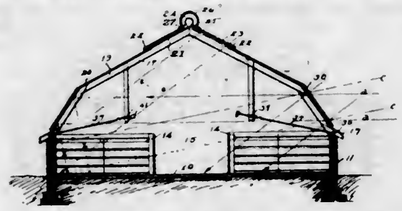
1. A tool supporting stand comprising a base, a stationary hollow standard rising from the base and having a hollof top extension which forms a bearing, a horizontal bracket arm having a hub at its inner end which is rotatably supported by the bearing, guide pulleys carried by the bracket arm, one of said pulleys being located above and at the outer end of the bracket arm, and the other above and at the hub, a flexible tool supporting line passing over the pulleys and having its ends depending therefrom, one end passing through the top extension of the standard and also into the standard, and the other end being adapted to support a tool, and a counterweight housed in the standard, said counterweight being attached to the first-mentioned end of the line.

1,470,297. PRINTER'S QUOIN. SAMUEL STEPHENS, Somerville, Mass., assignor to Samuel Stephens and Wickersham Quoin Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 21, 1922. Serial No. 555,869. 1 Claim. (Cl. 254—40.)



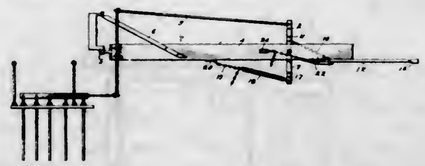
A printer's quoin comprising in combination a pair of opposed rigid members adapted to be expended and compacted relatively to each other, resilient means for compacting said members, a rotatable cam member intermediate said opposed members for expanding the same, a key for rotatably adjusting said cam member, radially positioned graduated indicator marks, and a co-operating register mark, the one upon said key and the other upon said exposed members whereby the extent of expansion thereof may be readily determined in terms of angular movement of said key.

1,470,298. BUILDING CONSTRUCTION. HALVER R. STRAIGHT, Adel, Iowa. Filed June 9, 1920. Serial No. 387,763. 6 Claims. (Cl. 108—1.)



1. A roof construction comprising, a plate, gambrel rafters, an outlook rafter adjacent to the lower end of each of said rafters, a flashing strip over said outlook rafters extending over the outer ends and upward over said rafters, a window sash on each of said rafters, the lower edge of which overlaps the upward extending portion of said flashing strip, a hinged door between each outlook rafter and means for adjusting said door.

1,470,299. TRIP FOR GRAIN BINDERS. RICHARD P. STUAN, Lincoln, Ill. Filed Nov. 6, 1920. Serial No. 422,252. 1 Claim. (Cl. 56—480.)



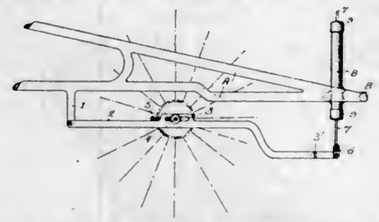
A trip attachment for the bundle carrier of binders including a rock bar mounted upon the binder tongue and equipped with a rod which engages the bundle carrier to trip the latter, a lever movably mounted on said tongue and in connection with said bar to operate the latter for tripping the carrier, and springs connected with said tongue and with said bar and lever to automatically return said bar and lever to a normal position as soon as pressure is released from the latter.

1,470,300. PROCESS OF GRAPHITIZING PREFORMED CARBON BODIES. EMERICH SZARVASY, Budapest, Hungary. Filed June 3, 1920. Serial No. 386,407. 3 Claims. (Cl. 204—64.)

1. The process for graphitizing electrodes formed as usual which consists in heating the electrodes in an atmosphere of methane to a temperature at which methane decomposes.

1,470,301. SHOCK ABSORBER. ARTHUR G. TAPPEN and AXEL V. WALLENTINE, Madison, Wis. Filed Oct. 31, 1921. Serial No. 511,621. 2 Claims. (Cl. 208—97.)

1. The combination with a wheel supported vehicle having a frame, of a floating lever pivoted directly thereto, a wheel carried by the lever, a housing carried by the frame, a plunger rod reciprocatively mounted in the housing, a link pivoted to said lever and said rod, a collar secured to the plunger rod, a recoil spring interposed between one face of the collar and one end of the housing, and a series of coil springs interposed between the other face of the collar and opposite end of said housing, the series of coil springs being interchangeable with another series whereby variation in their combined load resisting strength may be had.

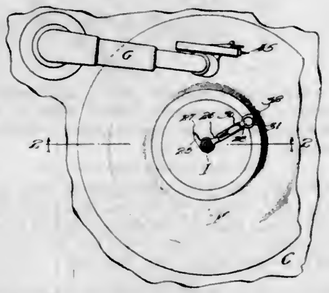


1,470,302. BALANCED GOLF BALL. WILLIAM I. THOMAS, New York, N. Y., assignor to Kinesthetic Process Co. Inc., a Corporation of New York. Filed June 14, 1921. Serial No. 477,458. 28 Claims. (Cl. 46—4.)



1. A golf ball comprising a center piece of resilient material impregnated for providing weight with material the specific gravity of which is not less than seventeen, and resilient material impregnated with the same material as the center piece arranged around the center piece for maintaining the center piece in normal central position in the ball when the ball is subjected to the requirements of use.

1,470,303. PHONOGRAPH. GEORGE C. TROTTER, Elkhart Lake, Wis., assignor to Lake Laboratories Company, Elkhart Lake, Wis., a Corporation of Wisconsin. Filed Nov. 27, 1922. Serial No. 603,407. 8 Claims. (Cl. 192—119.)

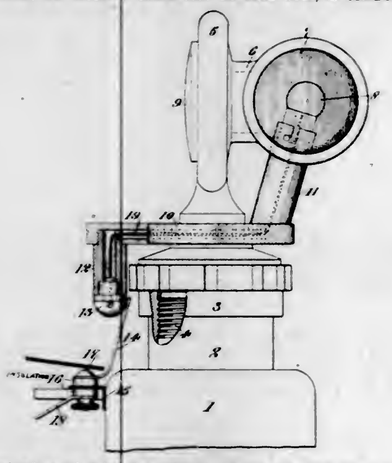


1. In a phonograph, the combination of a turntable, a rotatable spindle on which the turntable is mounted, an electric motor drivingly connected with the spindle, circuit connections leading from the motor to a point adjacent the upper end of the spindle, and means providing a switch at the upper spindle end, substantially as described.

1,470,304. ELECTRICAL CONTACT DEVICE. HARRY A. TUCKEY, San Francisco, Calif. Filed Oct. 14, 1922. Serial No. 594,667. 2 Claims. (Cl. 240—2.)

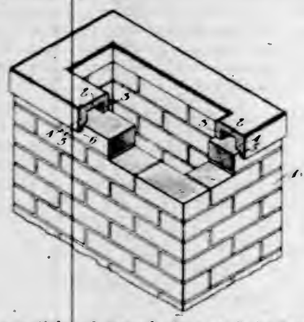
1. In combination with a cap, a channeled arm resting on and extending across the same, said arm at opposite ends carrying portions extending in relatively opposite

directions, a lamp removably mounted at the end of one portion, an electric conductor in said arm, a conducting



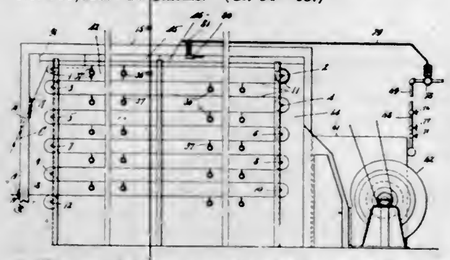
terminal carried by the other bent portion and with which said conductor is connected, and a contact with which said terminal is adapted to engage.

1,470,305. CHIMNEY CAP. CHARLES B. WAGONER, Rochester, N. Y. Filed Sept. 16, 1921. Serial No. 501,118. 3 Claims. (Cl. 72—88.)



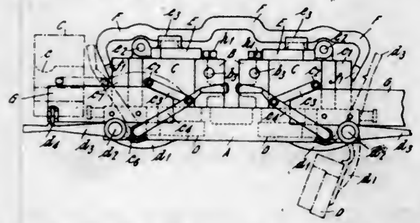
1. As an article of manufacture, a light weight one-piece chimney cap comprising hollow walls of inverted U-shaped cross section, the legs of which overlie the top of a chimney.

1,470,306. ART OF AND APPARATUS FOR DRYING MATERIALS. JOSEPH H. WALSH, Reading, Mass., assignor to Johns-Manville Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 15, 1919. Serial No. 330,813. 24 Claims. (Cl. 34—48.)



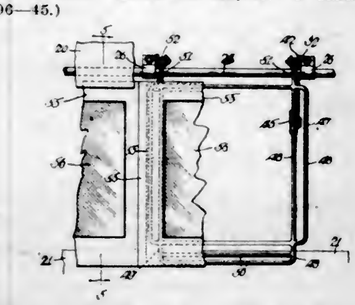
1. The art of drying materials which comprises exposing the material in a heat insulated chamber devoid of other heating means while subjecting it to the action of a plurality of blasts of preheated dried air severally impinging upon the material, the air moving in a substantially closed air circuit, forcibly causing circulation of the air contained in said air circuit, treating the air in the circuit after contact with the material to remove absorbed moisture therefrom, and again warming the air before delivery against the material.

1,470,307. MOLD FOR CASTING BRAKE BLOCKS AND THE LIKE. WILLIAM EVAN WILLIAMS, Holywell, Wales. Filed Jan. 24, 1922. Serial No. 531,434. 8 Claims. (Cl. 22—136.)



1. In a mold, in combination; a bed plate, mold side parts carried from the upper side of the bed plate, a mold cover hinged to one of the side parts, means for holding the side parts and the lid in working position, and a mold bottom separate from the bed plate and adapted to make joint with the side parts of the mold; substantially as described.

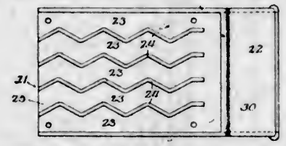
1,470,308. SHIFTABLE CLOSING MEANS FOR AUTOMOBILES. LEE W. V. WILMS, Chicago, Ill. Filed Oct. 2, 1922. Serial No. 591,748. 3 Claims. (Cl. 296—45.)



3. In a vehicle body and top therefor having a wall provided with a shiftable panel, the combination with a horizontally disposed supporting rod carried by the top along its said wall, of a pair of clips mounted in spaced relation on said rod, each of said clips carrying a transversely disposed apertured bearing bracket having radial depressions on one of its surfaces, a supporting bracket having a pair of spaced arms pivotally and slidably connected at one of their ends to the panel near the sides thereof and between its ends, each of said arms having at its other end a transversely apertured bearing bracket provided with radial ribs to engage the radial depressions of the first named bearing brackets, bearing bolts extended through the apertures of each pair of said bearing brackets, and a spring mounted to exert its pressure against each of the bearing brackets of said arms towards the bearing brackets of said clips.

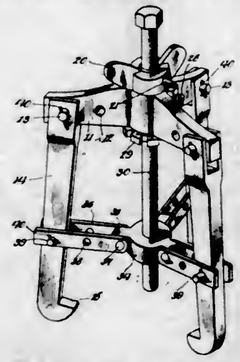
1,470,309. FURNACE. JOHN G. WIMMER, Lockport, Ill. Filed Feb. 12, 1923. Serial No. 618,465. 5 Claims. (Cl. 110—75.)

1. In a furnace, including its fire pot and a fuel feed passage leading thereto, a horizontally extending, wide and relatively shallow, air heating conduit located in said fuel passage, at the top thereof, and having a plurality of separate, independent air passages therein, each



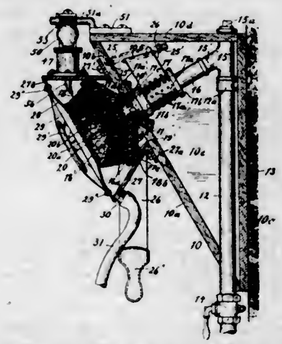
having individual inlet and outlet ports, there being a common cold air inlet passage, opening to all of said inlet ports, and a common hot air discharge passage into which all of said outlet ports lead.

1,470,310. WHEEL AND GEAR REMOVER. ERNEST E. WINCHELL, Seattle, Wash. Filed June 28, 1922. Serial No. 571,455. 5 Claims. (Cl. 29—85.)



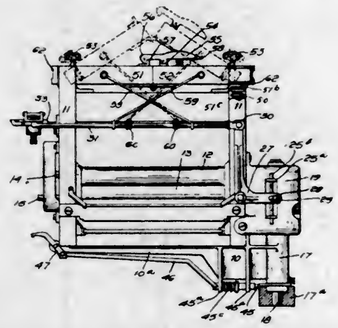
1. An implement of the class described comprising a body member having a central opening, gripping jaws pivotally mounted thereon, a nut revolubly mounted in said opening, a threaded bolt engaging with said nut, means cooperating with said nut for axially retracting the bolt in said opening, link connections between said bolt and said jaws adapted to regulate the grip of the jaws through the retraction of said bolt, and a latch in said body member adapted to lock said nut, whereby upon turning the bolt in the nut, the bolt is axially advanced.

1,470,311. SHAMPOOING AND HAIR-WASHING APPARATUS. JOHN WIRTH, New York, N. Y. Filed Aug. 24, 1922. Serial No. 583,972. 6 Claims. (Cl. 4—159.)



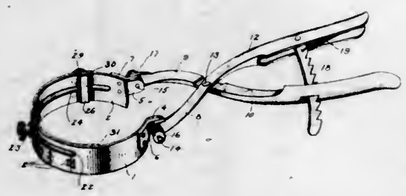
1. A shampooing apparatus for the scalp comprising a water supply pipe, a conical-shaped brush rotatably and axially mounted on the supply end of said pipe, means to rotate the brush and means to supply shampooing liquid to said brush.

1,470,312. RELEASING DEVICE FOR WRINGERS. OLIVER B. WOODROW, Newton, Iowa. Filed July 8, 1919. Serial No. 309,404. 3 Claims. (Cl. 68—32.)



1. The combination of a wringer having cooperating rolls, a power shaft, operating means driven by said power shaft for imparting a forward rotary movement to a given roll, operating means for imparting a reverse movement from said power shaft to said given roll, means for imposing tension on said rolls, adapted to be instantly released, and means actuated by the recoil of said tension device for throwing said forward and reverse operating means out of operation when said tension means is released.

1,470,313. PISTON-RING SQUEEZER. ALFRED WOOLEN, Okmulgee, Okla., assignor of one-half to L. M. Tryer, Okmulgee, Okla. Filed Sept. 19, 1922. Serial No. 589,277. 1 Claim. (Cl. 29—86.4.)



A ring squeezer comprising a two part circular band of thin springy sheet metal adapted to surround the piston and having a free and unobstructed edge adapted to fit into the chamfer of the cylinder of an engine, means for adjusting the said parts of the band relative to each other to vary the diameter of the band, each part being provided at one end with an offset ear located within the plane of the band, a pair of crossed handles pivoted together, means for locking the handles together to hold the band in set position, each handle pivoted to one of the said ears to permit angular adjustment of the said handles relative to the plane of the band.

1,470,314. COTTON-CLEANING MACHINE. DAVID Z. WRIGHT, Childress, Tex. Filed Feb. 5, 1921. Serial No. 442,759. 3 Claims. (Cl. 19—85.)

3. In a cotton cleaning machine, in combination, a casing having a cotton inlet pipe at one side, a suction pipe at its top, a rotary dropper at its bottom and a rotary doffer below the cotton inlet, a boll breaker comprising a head having projecting fingers guided in the casing at

the inner end of the cotton inlet, spring means influencing the boll breaker in one direction, adjusting means for said spring means, a segmental screen having its ends secured respectively to the boll breaker and the doffer, a

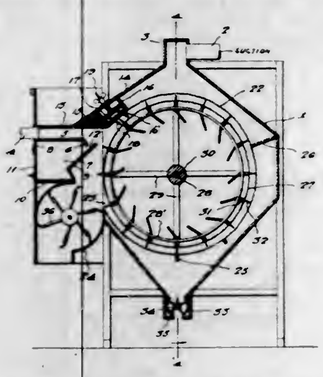
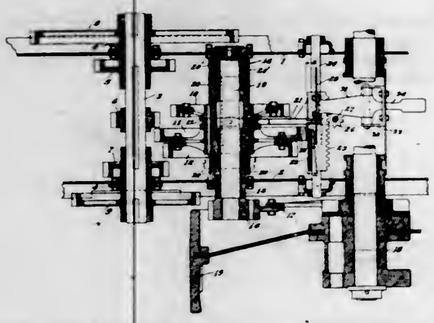


plate secured to the screen and casing opposite the cotton inlet pipe, a reticulated drum in the screen having outwardly projecting fingers and inwardly extending vanes, and means for imparting motion to the drum and motion to the rotary dropper and doffer.

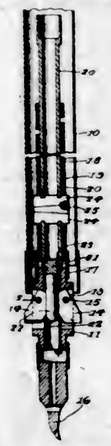
1,470,315. ROAD ROLLER. ANDREW W. AITKEN, Springfield, Ohio, assignor to The Buffalo-Springfield Roller Company, Springfield, Ohio, a Corporation of Ohio. Filed July 3, 1922. Serial No. 572,401. 6 Claims. (Cl. 74—58.)



1. In a machine of the character described, side frame members, bearings carried by said frame members, said bearings being extended inwardly beyond the inside faces of said frame members, a shaft mounted in said bearings, said shaft being provided with a cylindrical mounting for shiftable gears, which form a part of change of speed mechanism, said mounting being projected over the said bearings, for the purpose specified.

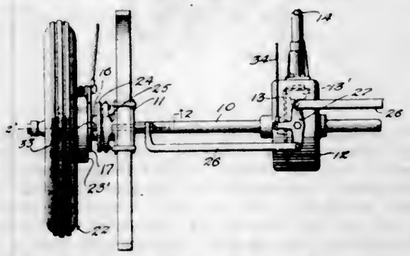
1,470,316. EXPANSIVE UNDERREAMER. LOUI H. BALDWIN, Oklahoma, Okla. Filed Oct. 5, 1921. Serial No. 505,506. 3 Claims. (Cl. 255—76.)

1. An underreaming well drill including a casing having a drill bit secured in one end and a tube secured in the other end, the tube having a longitudinal slot on each side, a rod slidable in the tube and having a head formed with a central longitudinal pin for projection into the casing, the sides of the casing being formed with longitudinal slots, and cutting blades pivotally mounted in the casing slots and having inner inclined faces positioned for engagement by the pin to be swung outwardly through the slots into cutting position, and means en-



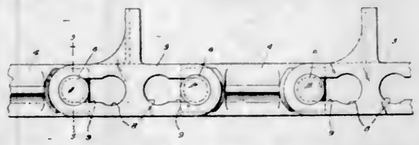
gaged through the rod and projecting into the slots of the tube for limiting the movement of the rod.

1,470,317. AUTOMOBILE DRIVE GEAR. WILLIAM T. BEDDINGFIELD, Meridian, Miss. Filed May 5, 1922. Serial No. 558,568. 3 Claims. (Cl. 192—50.)



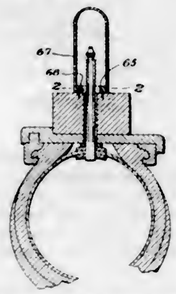
1. A drive gear including a driven shaft, a rotor loosely mounted on the shaft and having a circular series of teeth, a flanged disk having a hub fixed on the shaft for rotation therewith, a yoke having a stud rockingly supported in the flange of the disk and having a tooth on each arm, a spring on the disk normally urging one arm of the yoke into engagement with the teeth, a collar slidable on the hub of the disk and having a projection disposed through the disk and engaged with the other arm of the yoke, and means for moving the collar to rock the yoke to engage the last-named arm with the teeth and disengage the first-named arm therefrom.

1,470,318. CHAIN LINK CONSTRUCTION. STANLEY J. BENNIER and CLINTON V. J. DIEHL, Hazleton, Pa. Filed Jan. 13, 1921. Serial No. 436,921. 5 Claims. (Cl. 74—32.)



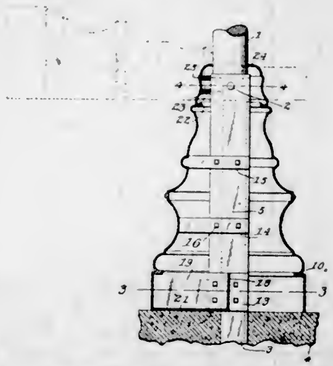
4. A chain comprising single and double links alternately arranged, the latter comprising oppositely disposed side members situated upon opposite sides of the single link members, the opposite ends of the members of each double link overlapping the opposing end portions of adjacent single links and each of the members of the said double links being provided with elongated openings in the opposite end portions thereof and the said single links each being provided with integral oppositely extending headed projections adjacent its opposite ends, which projections are adapted to extend through the said openings, and said single links each being provided with shoulders adjacent its opposite ends which are adapted to abut with the adjacent ends of the members of the double links, substantially as described.

1,470,319. DUST CAP FOR VALVE STEMS. BERNARD M. BERNGARTT and MAURICE M. BERNGARTT, Baltimore, Md. Filed Mar. 17, 1921. Serial No. 452,975. 3 Claims. (Cl. 152—12.)



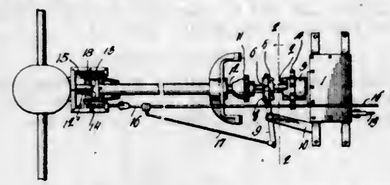
1. The combination with a wheel rim and a valve stem projecting therethrough, of a ring secured on the rim and surrounding the valve stem, the ring having L-shaped grooves in its peripheral face, a cap embracing the ring, pins on the cap engaging in the grooves, and opposing resilient jaws mounted in each of said grooves for releasably receiving said pins.

1,470,320. COUNTERBALANCED FLAGPOLE. LOUIS PH. BOLANDER, San Francisco, Calif., assignor to L. Ph. Bolander & Son, San Francisco, Calif., a Firm composed of Louis Ph. Bolander and Alvin E. Bolander. Filed Feb. 17, 1923. Serial No. 619,751. 7 Claims. (Cl. 116—173.)



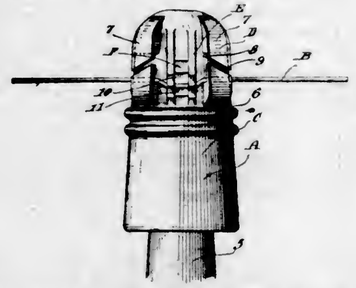
6. A counterbalanced flag pole of the class described, including a flag pole stub, a pole pivoted at its lower portion to the stub, a hollow base concealing the flag pole stub and the pivoted portion of the pole and comprising a movable member carried by the pole, and provided at intervals with spaced arms secured to the lower portion of the pole, said movable member being also provided at the bottom with said central and side compartments adapted to receive weights and forming a pole receiving recess.

1,470,321. CLUTCH MECHANISM. BERT COOPER, Albuquerque, N. Mex. Filed May 6, 1920. Serial No. 379,310. 1 Claim. (Cl. 192—48.)



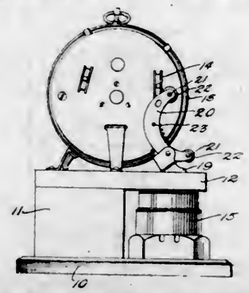
A device as set forth including a transmission equipped with a drive shaft a portion of which is circular in cross section and a portion rectangular in cross section, a clutch element mounted on said circular portion of the shaft, and a cooperating clutch element mounted on the rectangular portion of the shaft, a driven shaft operatively connected to said drive shaft and equipped with a two-part clutch, and interconnected members engaged with the clutch element of the rectangular portion of the drive shaft and with one of the clutch elements of the driven shaft to connect one of the clutches and disconnect the other clutch with a single movement of said interconnected members.

1,470,322. WIRELESS TIE INSULATOR. HARRY A. FREDERICK, Chicora, Pa. Filed Nov. 18, 1919. Serial No. 338,846. 5 Claims. (Cl. 173—316.)



5. An insulator comprising a body, a pair of spaced brackets carried by the body, said brackets having transverse apertures formed therein, a pair of spaced rack bars formed on the body and arranged intermediate the backets, and spaced fulcrum notches arranged intermediate the brackets.

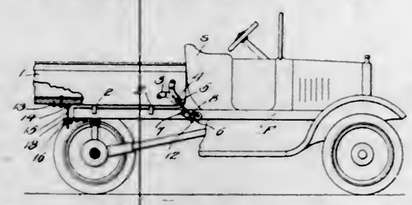
1,470,323. TIME-CONTROLLED SWITCH. HELGE HOKANSON, Washington, N. J. Filed Oct. 19, 1922. Serial No. 595,603. 6 Claims. (Cl. 200—35.)



1. A time controlled switch operating device including a base, a switch arm extending through the base, a yoke mounted on the base and straddling the switch arm, a member pivotally supported on the yoke, rollers on the

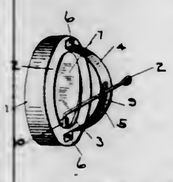
ends of the member one of which is adapted to engage with and be moved by the fingerpiece of the winding of the alarm of a clock and the other to engage and move the switch arm, and an overbalancing spring connected to the yoke and to the pivoted member.

1,470,324. REMOVABLE BODY FOR AUTOMOBILES. SAMUEL HUNTER, Bellevue, Pa. Filed Nov. 25, 1921. Serial No. 517,733. 1 Claim. (Cl. 296—35.)



The combination with a vehicle chassis frame having side bars and a seat positioned forwardly of the rear ends of the side bars, of a load-carrying box resting upon said side bars with its forward end engaging said seat, brackets carried by the lower forward corner portions of the side walls of said box, brackets secured against the outer faces of said side bars and having outwardly extending eyes disposed diagonally of the outer faces of the side bars at right angles to a line bisecting the angle between the bottom and forward end of said box, bolts carried by the first mentioned brackets and passing through the eyes of the second mentioned brackets and having threaded free ends and fastener nuts thereon for engaging the eyes of the second bracket and drawing the box forwardly and downwardly, and means for anchoring the rear end portion of the box against upward movement.

1,470,325. AUTOMATIC DRAFT REGULATOR. GEORGE H. HUSTON, Cincinnati, Ohio. Filed June 23, 1920. Serial No. 391,200. 4 Claims. (Cl. 236—45.)



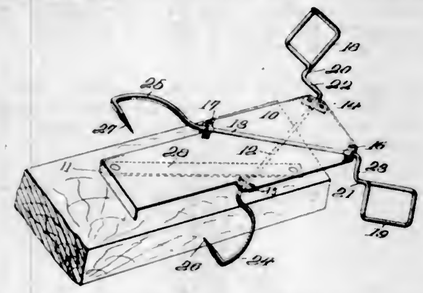
1. In an automatic flue regulator, a cap capable of fitting in a flue, provided with an opening therein, a movable damper mounted in said cap, means for causing said damper to remain partly off its seat at all times, and means for guiding said damper to prevent the same from binding in said cap.

1,470,326. DRAFT-CONTROLLING DAMPER. JOZEF KOSMAN, Maspeth, N. Y. Filed Apr. 18, 1922. Serial No. 555,124. 1 Claim. (Cl. 126—292.)



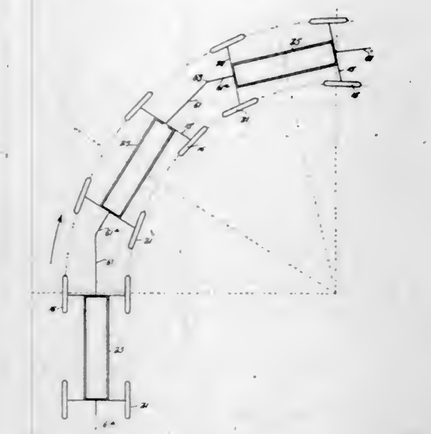
The combination with a pipe, of a damper in said pipe, said damper consisting of a circular plate formed in sections, one section being of greater area than the other, pivotal connections on the larger of said sections engaging the wall of said pipe, hinges connecting the plate sections, counterweights on the smaller of said sections, and a flexible cord-like element engaging the lower edge of said smaller plate section, said flexible element extending outwardly for manual operation.

1,470,327. GRAPPLE. ELI LAFRENIERE, Westfield, Mass. Filed Jan. 13, 1923. Serial No. 612,558. 3 Claims. (Cl. 294—17.)



1. A grapple comprising, in combination, a body member, a pair of hooks, shanks rigidly secured to said hooks pivoted upon said body member in crossed relation relative to each other, handles upon said shanks adapted to cause revolution thereof, and means upon said body extending beyond said hooks to press upon an object to be lifted.

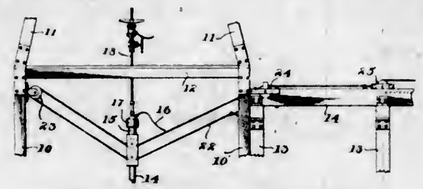
1,470,328. TRACTOR TRAILER. WILLIAM CAMPBELL NABORS, Mansfield, La. Filed Jan. 5, 1920. Serial No. 349,442. 1 Claim. (Cl. 280—33.5.)



A tractor trailer including front and rear axles, wheels turnably connected to the ends of the said axles, a body, springs between the body and the axles, disposed transversely in respect to the body, each of said springs having a stationary support at one end and a swinging support at its opposite end in connection with its respective axle, and wheel turning means including connections between the body and the wheels arranged at that side of the body adjacent to the stationary connections of the spring ends.

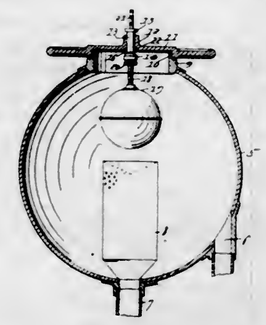
1,470,329. WELL-DRILLING RIG. RALPH HAMILTON RAMSEY, Ardmore, Okla. Filed June 5, 1922. Serial No. 565,862. 3 Claims. (Cl. 294—90.)

1. In combination with a casing pipe having a collar thereon, of a multiple section elevator removably secured about the casing below the collar, means maintaining the elevator sections in place about the casing com-



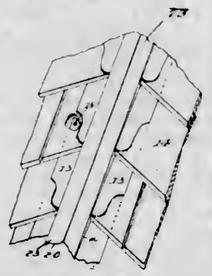
prising a pair of parallel cables passing one on each side of the casing and through the opposed sections.

1,470,330. MEASURING AND DISPENSING APPARATUS. LOUIS ROSENFELD, Baltimore, Md. Filed Feb. 16, 1921. Serial No. 445,379. 1 Claim. (Cl. 137—69.)



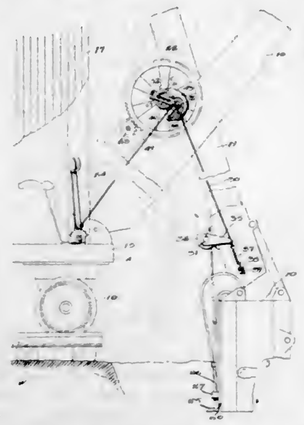
In a valve for controlling the displacement of air within a receptacle, a sleeve slidable in an aperture of the receptacle in relation to and operative with a valve seat at said aperture, a valve forming a part of said sleeve adapted to coact with the valve seat, means for preventing disassociation of the sleeve from said receptacle, a valve stem threaded through the valve and situated in spaced relation to the sleeve, the said sleeve having air discharge orifices at the junction of the valve and sleeve, and a float carried by the valve stem.

1,470,331. ROOF EDGING. JOHN SAUL, Jersey City, N. J. Filed July 25, 1922. Serial No. 577,382. 10 Claims. (Cl. 108—24.)



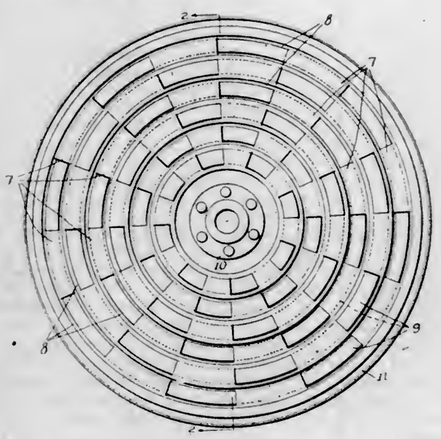
1. A roof edging comprising a sheet metal strip having successive longitudinal bends and traversing lines of partial severance to form oblique portions to one side of the bends, said oblique portions being on different planes.

1,470,332. POWER TRIP. FRANK W. SCHULTE, Clarksburg, W. Va. Filed Jan. 4, 1923. Serial No. 610,660. 6 Claims. (Cl. 214—146.)



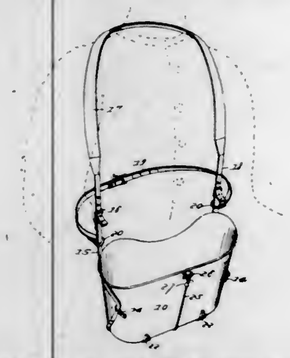
1. In an excavating machine, the combination of a platform, a lever carried by the platform, a boom carried by the platform, dipper arms slidably carried by the boom, a gear wheel carried by the boom for cooperation with the dipper arms for sliding the same on the boom, a drum secured to the gear wheel for rotation therewith, a bucket carried by the arms having a hinged bottom, a trip latch for the bottom, and a trip cable for the latch connected therewith and trained about said drum, and means for operating the trip cable from the platform.

1,470,333. VEHICLE WHEEL. HARRY MORTIMER SPECHT, Pelham, N. Y. Filed Aug. 14, 1922. Serial No. 581,697. 6 Claims. (Cl. 301—63.)



6. In a vehicle wheel, the combination with a hub and rim, of a disk member provided with a plurality of circumferential concentric corrugations divided longitudinally into sections alternately elevated and depressed with relation to the plane of the surface of the said disk member, and reinforcing members adapted to be inserted and positioned in the channels formed by the said elevated and depressed sections of the said circumferential corrugations.

1,470,334. FRUIT CARRIER. CONRAD P. STENSGAARD and ROBERT L. STENSGAARD, Pomona, Calif. Filed July 10, 1922. Serial No. 573,788. 3 Claims. (Cl. 224—5.)



1. In a device of the character set forth, a receptacle provided with suspending means, said receptacle having at each end, points of suspension located to one side of the vertical center thereof and adjacent to its lower edge, and on opposite sides of said vertical center and on a higher plane, projecting means with which the suspending means may be caused to engage to maintain the receptacle in position for use.

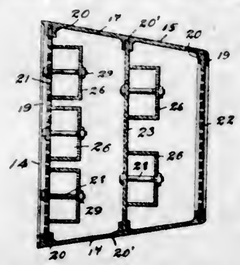
1,470,335. ENVELOPE. NATHAN STERNHEIMER, Richmond, Va. Filed Oct. 12, 1922. Serial No. 594,114. 1 Claim. (Cl. 229—73.)



A convertible envelope of the single pocket type comprising a body consisting of a front and rear wall uniting along three of their adjacent edges, an extension on one of the walls projecting beyond the open end of the envelope and adapted to form a closure for said end, the rear wall having exposed indicia thereon providing directional information relating to the sendee while the front wall is provided with exposed directional information for returning the envelope to the original sender, said information adapted to be exposed as a whole to view when the body is folded upon itself and the opposite ends of the envelope are sealed together by the extension, said body being foldable along a line running transversely of the body and midway of its ends.

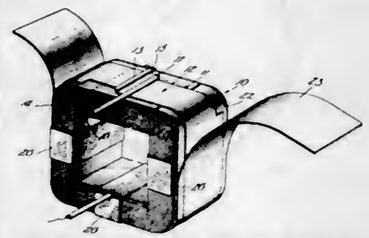
1,470,336. CARBON-MONOXIDE BURNER. ALFRED F. TARDIE, Riverside, R. I. Filed Apr. 15, 1922. Serial No. 553,240. 1 Claim. (Cl. 110—75.)

A device of the character described comprising a cast housing having an opening extended therethrough from front to rear, and having transverse guide elements at intervals thereon, being constructed for, and having vertical planiform foraminate plates slidably inserted in said guides through one side of the housing so as to extend across the opening through said housing, certain of said plates having channelled members mounted at one side and open adjacent the plates, and having



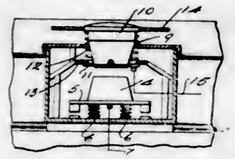
openings in the sides opposite the plates upon which they are mounted, disposed to cause air admitted through the plates to pass in a tortuous manner from one to another.

1,470,337. TERMINAL CONNECTER FOR ELECTRICAL WINDINGS. CHESTER H. THORDARSON, Chicago, Ill. Filed Jan. 30, 1922. Serial No. 532,802. 9 Claims. (Cl. 175—362.)



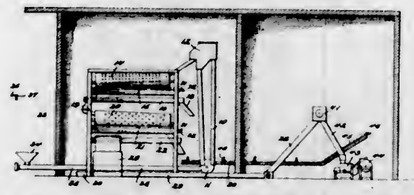
2. A terminal connecter for electrical windings comprising a thin, elongated, flexible conducting strip, and terminal branches integral with and extending transversely over and beyond the side margins of said strip.

1,470,338. AUTOMATIC SIGNAL FOR RAILROAD CROSSINGS. JERRY E. WESOLOWSKI, Buffalo, N. Y. Filed July 17, 1923. Serial No. 652,086. 2 Claims. (Cl. 246—125.)



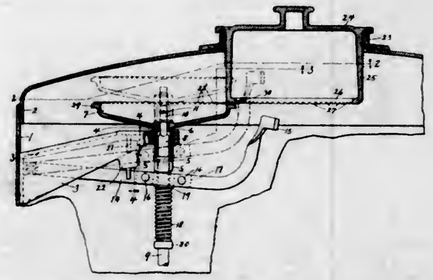
1. An automatic signal for railroad crossings comprising, in combination with railway rails, a switch housing mounted adjacent one of the rails in each pair, a resilient contact switch member arranged in the switch housing, springs supporting the resilient switch member in a slightly elevated position, a vertically movable switch member mounted above the resilient switch member, a supporting bracket, a coil spring interposed between the supporting bracket and the head of the said movable switch member, a stop plate carried by the movable switch member to limit the downward movement of the switch member in the housing when the two switch members are in engagement, such movable switch member being in close proximity to the head of one of the rails whereby it will be engaged by the flange of one of the wheels of the train, an electric circuit having conductors connected to the said switch members, a signal element arranged adjacent the grade crossing at opposite sides of the said rails and including a signal element adapted to be electrically energized when the two switch elements are in engagement to close the circuit.

1,470,339. METHOD OF TREATING COTTONSEED IN HANDLING, CLEANING, AND DELINTING. THOMAS P. WALLACE, Memphis, Tenn. Filed Nov. 22, 1920. Serial No. 425,760. 2 Claims. (Cl. 19—40.)



1. The method of treating and cleaning cotton seed having fiber containing less than the desired degree of moisture which consists in producing and maintaining a sufficient degree of moisture for sufficient time in the atmosphere surrounding the seed to impart to the cotton fibers thereof the desired degree of moisture to soften or render said fibers more pliable and stronger and subjecting the seed to the cleaning operation in such condition, thus securing more effective removal and collection of dust and other foreign matter and reducing greatly the breakage of the short lint into minute particles which float around in and contaminate the surrounding air.

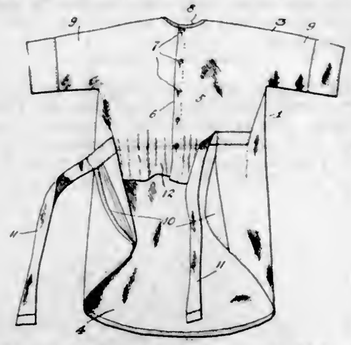
1,470,340. TANK-CAR VALVE-OPERATING MECHANISM. JOSEPH C. ABEL, Brooklyn, N. Y., assignor to American Car and Foundry Company, St. Louis, Mo., a Corporation of New Jersey. Filed Feb. 19, 1921. Serial No. 446,283. 10 Claims. (Cl. 137—21.)



1. In a tank car, a valve operating mechanism comprising a lever, a valve rod and a manhole cover adapted to operate the lever to seat the valve and to operate the rod to grind the valve to its seat.

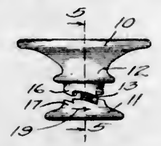
1,470,341. APRON. RUTH ACHILLI, Columbus, Ohio. Filed Feb. 10, 1921. Serial No. 444,017. 1 Claim. (Cl. 2—54.)

A slip-on garment comprising integral blouse and skirt portions, said blouse portion being formed to provide sleeves and a neck opening, said blouse portion being further formed to include a substantially closed back, said back having separable edges, fastening devices for uniting said edges, extensions formed upon said back below the waist of the garment, separable wings provided in connection with the spaced edges of said skirt portion and capable of overlapping the extensions, and tying devices disposed at the upper edges of said wings for engagement across the extension and capable of



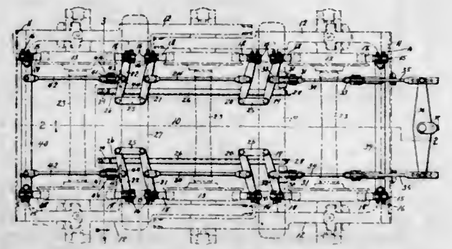
drawing the garment tautly about the waist of the wearer, and to maintain said wings in holding relation with said back extension.

1,470,342. BUTTON STRUCTURE. LEW ARNTZ, Des Moines, Iowa. Filed Nov. 18, 1922. Serial No. 601,849. 1 Claim. (Cl. 24—105.)



A button structure of the class described including a front and a back member, said front member having a screw threaded stem thereon, teeth formed on one of the faces of said front member and spaced radially from said stem, said teeth extending upwardly from the face of the member on which they are mounted for forming a recess, said back member having a screw threaded opening therein for receiving said stem, teeth formed on one face of the back member for coacting with the teeth on the front member, said teeth being spaced radially from said opening and extending upwardly from the face of the member on which they are mounted for forming a recess, the material on which the button is fastened being engaged by said teeth at a point spaced from the point where the stem extends through the material as and for the purposes stated.

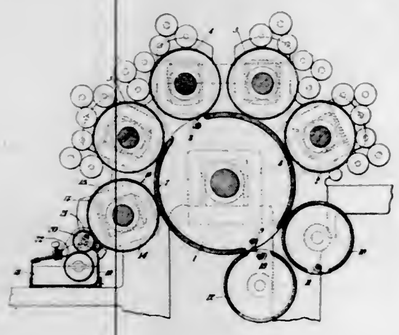
1,470,343. CLASP-BRAKE RIGGING. WILLIAM S. BAIRD, Elmhurst, N. Y., assignor to American Car and Foundry Company, St. Louis, Mo., a Corporation of New Jersey. Filed Feb. 19, 1921. Serial No. 446,282. 10 Claims. (Cl. 188—46.)



1. In a brake-rigging for six-wheeled trucks, the combination with brake shoes applied to both sides of each

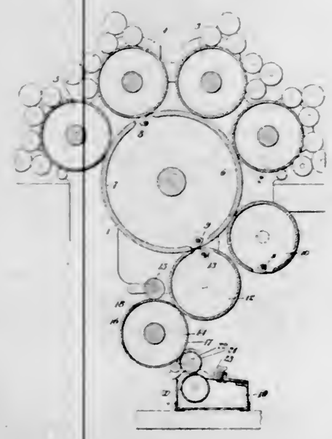
pair of wheels, of brake beams connecting certain of said brake shoes, brake levers extending inwardly from the other of said brake shoes and arranged in pairs between the wheels, and levers between said brake beams and brake levers.

1,470,344. MEANS FOR AND METHOD OF APPLYING ANTIOFFSET MATERIAL TO FRESHLY-PRINTED SHEETS. HOWARD M. BARBER, Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 20, 1922. Serial No. 537,834. 9 Claims. (Cl. 101—416.)



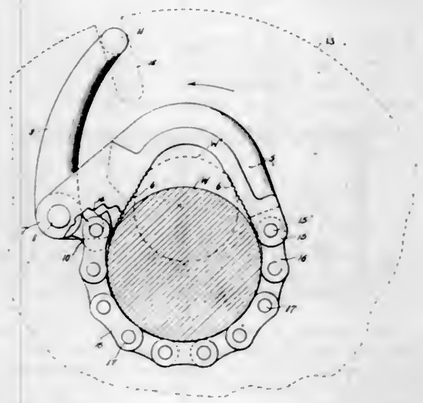
1. Sheet printing mechanism and means coacting therewith for applying anti-offset material onto predetermined freshly printed portions only of the sheets.

1,470,345. MEANS FOR AND METHOD OF APPLYING ANTIOFFSET MATERIAL TO FRESHLY-PRINTED SHEETS. HOWARD M. BARBER, Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 20, 1922. Serial No. 537,835. 7 Claims. (Cl. 101—416.)



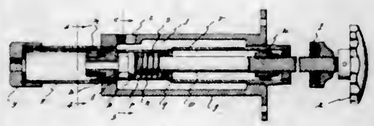
1. Sheet printing and delivery mechanisms, and means coacting with the delivery mechanism for applying anti-offset material onto the back of the freshly printed sheet opposite a predetermined portion thereof.

1,470,346. LATHE DOG. CHARLES H. BASSETT, Bridgeport, Conn. Filed July 20, 1921. Serial No. 486,165. 4 Claims. (Cl. 82—41.)



1. A lathe dog comprising a V-block adapted to receive work between the lever thereof a lever fulcrumed on one leg of the block and provided with a projection for insertion in a face plate, a flexible clamping element attached to the other leg of the block, and means for detachably connecting said flexible element to the lever whereby it may be clamped about the work.

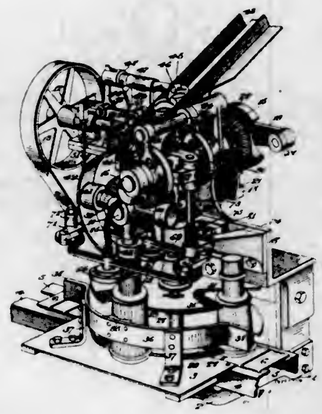
1,470,347. FORCE PUMP. EDGAR J. BLOOM, Tiffin, Ohio. Filed Dec. 14, 1921. Serial No. 522,214. 9 Claims. (Cl. 184—28.)



6. A force pump, having in combination, a barrel containing a fluid reservoir space, a main cylinder secured to the barrel, a plunger reciprocating in said cylinder and provided with a passage therethrough, a supplemental cylinder at the rear of the main plunger provided with one or more ports opening into the reservoir space of the barrel, a valve reciprocating in the said supplemental cylinder and controlling said passage, a rod by which the plunger and valve are operated secured to the valve, the said plunger being arrested in its backward movement to permit the valve to draw back from its seat, said valve movement inward closing against its seat and the plunger forcing the fluid ahead.

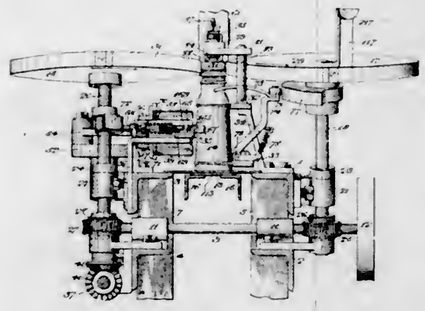
1,470,348. BOTTLE-CAPPING MACHINE. ROBERT G. CLARK, Brooklyn, N. Y., assignor to Paragon Can & Cap Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 14, 1920. Serial No. 373,923. 23 Claims. (Cl. 226—88.)

1. In a bottle capping machine, means for engaging the cap to impart to it a combined longitudinal and rotary movement for screwing it onto the bottle, said means comprising a rotary element having a rolling contact



with the side of the cap, and automatic means for positively moving the element laterally into and out of engagement with the cap.

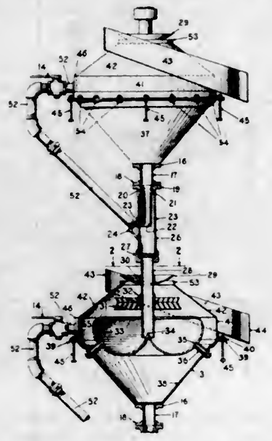
1,470,349. BOTTLE-CAPPING MACHINE. ROBERT G. CLARK, Brooklyn, N. Y., assignor to Paragon Can & Cap Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 14, 1920. Serial No. 373,922. 31 Claims. (Cl. 226—88.)



1. In a bottle capping machine, fixedly mounted means having a rolling contact with the cap to impart to it a combined longitudinal and rotary movement for screwing it on to the bottle, and means for feeding the bottles to said screwing means.

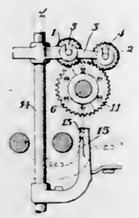
1,470,350. ORE CONCENTRATION. ARTHUR LACEY COURT, San Francisco, Calif. Filed Oct. 25, 1918. Serial No. 259,634. 22 Claims. (Cl. 83—85.)

1. Apparatus for froth-flotation separation comprising a casing having a froth overflow and a tailings outlet, an eddy chamber therein open at the top and disposed below the liquid level in the casing, and means for delivering a falling column of ore pulp and air into the eddy chamber, the bottom of the eddy chamber diverging downwardly and outwardly from the place of impact of



the falling column, so as to spread the falling column, and also comprising an extension to then turn the flowing pulp and air upwardly.

1,470,351. STOP MOTION FOR SPINNING MACHINERY. JOSEPH E. CUSHMAN and NORMAN C. STANTON, Stonington, Conn., assignors to Atwood Machine Company, Stonington, Conn., a Corporation of New Jersey. Filed Oct. 14, 1921. Serial No. 507,741. 10 Claims. (Cl. 118—7.)



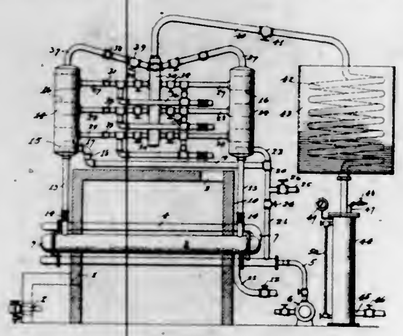
1. In a stop motion, a feed roll, a take-up shaft, a geared connection between them, and automatic means for shifting the take-up shaft gear out of its driving connection with the take-up shaft without disconnecting it from the feed roll gear, when the thread breaks.

1,470,352 GAS DIAPHRAGM. CARBON P. DUBBS, Wilmette, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed July 22, 1918, Serial No. 245,994. Renewed Mar. 8, 1923. 1 Claim. (Cl. 73—1.)



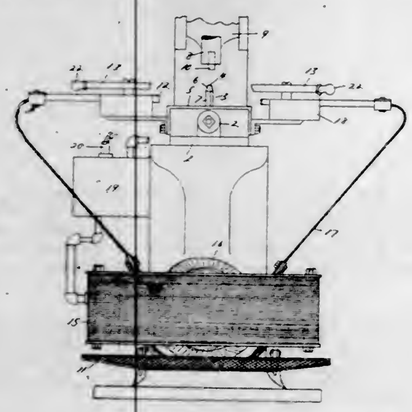
A diaphragm for gas meters comprising a non-metallic body portion impregnated with oil to give it flexibility and a gold-beater's skin impervious to the oil extending over the face of the body portion which is subjected to a gas containing an oil solvent and adapted to prevent the oil solvent contained in the gas from reaching the oil contained in the body portion.

1,470,353. APPARATUS FOR TREATING OIL. GUSTAV EGLOFF and HARRY P. BENNER, Independence, Kans., assignors to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Aug. 23, 1920. Serial No. 405,443. 3 Claims. (Cl. 196—14.)



1. An apparatus for cracking oil, comprising a heating chamber, a coil in said chamber through which the oil passes, a vapor chamber communicating with said coil, a plurality of vapor outlets from different parts of said vapor chamber, and a dephlegmator in communication with each of said outlets, a series of drawoff lines leading from said dephlegmators, a common header communicating with said lines, means for cutting off one or more of said lines and a vapor outlet from said header.

1,470,354. STAMP AND METHOD OF FORMING THE SAME. GEORGE ARTHUR GARDHAM, Highland Park, Mich., assignor of one-half to Arvin C. Webster, Detroit, Mich. Filed May 12, 1920. Serial No. 380,741. 3 Claims. (Cl. 76—4.)



1. The method of forming a stamp, comprising the clamping of a blank at a substantial distance from one of its faces, the heating of the blank adjacent to its clamping means and the subjecting of said face of the blank to a succession of blows by a matrix, while said face is heated.

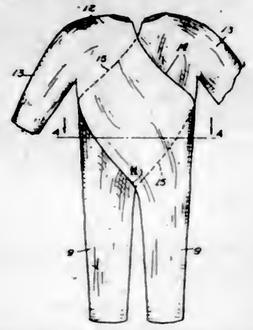
1,470,355. HANDLE. CHARLES GLUCKMAN, New York, N. Y. Filed Feb. 3, 1921. Serial No. 442,118. 10 Claims. (Cl. 190—57.)

6. A handle for hand bags and the like comprising companion sections having means to center the same, said means adapted to be subsequently removed, and means disposed interiorly of the sections for securing the same



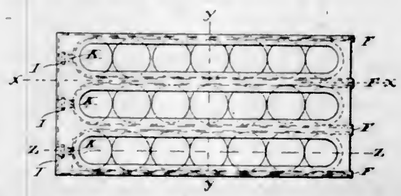
together said means being arranged for engagement with the inner surfaces of said sections for the major portion of their length.

1,470,356. PYJAMAS. JOSEPH F. GRAHAM, Brooklyn, N. Y. Filed Oct. 28, 1921. Serial No. 511,094. 6 Claims. (Cl. 2—144.)



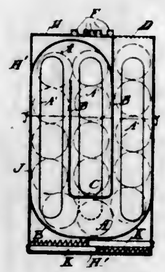
4. A garment of the class described comprising two identically formed sections shoulder supporting independent portions forming parts of said sections adapted to be lapped upon the human body and where the same covers the abdomen of the said body, and means for permanently securing said garment sections in service relation, said means being arranged so that the garment may be opened in front and in the rear of and upwardly from the median section of the crotch of the said garment.

1,470,357. POCKET COIN HOLDER. HARRY M. GREENBAUM, Cleveland, Ohio, assignor to Fannie Greenbaum, Cleveland, Ohio. Filed Jan. 6, 1923. Serial No. 611,119. 5 Claims. (Cl. 232—4.)



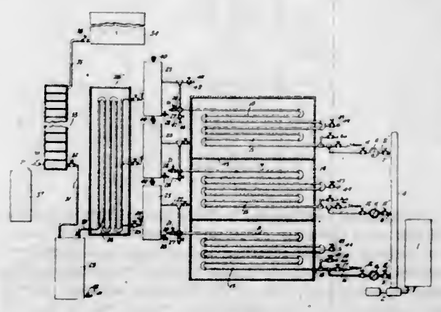
1. In a coin holder, a body formed of longitudinally grooved plates placed together back to back with the grooves opening outwards, each groove being closed at one end and open at the other end, cover plates therefor, said cover plates provided with inwardly turned extremities adapted to be hooked over the corresponding ends of said body plates between the open ends of said grooves and to hinge thereon, the other extremities of said cover plates being bent inwardly and adapted to overlap the opposite ends of said body plates, said ends of said body plates being longitudinally extended, to form an enclosure and said overlapping extremities of said cover plates being provided with engaging means and complementary engaging means in said enclosure engageable therewith.

1,470,358. POCKET COIN HOLDER. HARRY M. GREENBAUM, Cleveland, Ohio, assignor to Fannie Greenbaum, Cleveland, Ohio. Filed Jan. 16, 1923. Serial No. 612,971. 7 Claims. (Cl. 232—4.)



1. In a coin holder, a body composed of a pair of thin plates secured together, each plate having upon its outer surface an inwinding ridge, forming circuitous coin passages, open at one end of said body, and cover plates for said body, said cover plates hinged at one end to the ends of said body plates, said cover plates having flanged edges overlapping the ends and sides of said body, said flanges at one end of said cover plates having openings therein registering with said coin passages, and means for locking the flanges of said cover plates at their other ends.

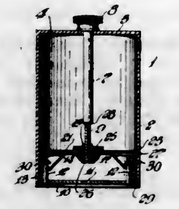
1,470,359. PROCESS OF REMOVING CARBON FROM METAL PIPES. CHARLES J. GREENSTREET, St. Louis, Mo., assignor to Gasolene Corporation, a Corporation of Delaware. Filed Apr. 17, 1917. Serial No. 162,608. 3 Claims. (Cl. 196—25.)



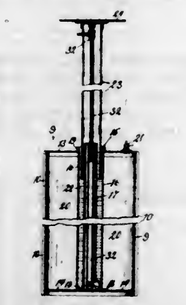
1. The process of removing carbon from pipes in an apparatus for converting hydrocarbons into other hydrocarbons having a different specific gravity and provided with pipes for conveying and converting the hydrocarbons, which consists in passing oxygen and steam simultaneously through the pipes when heated in such proportion as to effect the oxidation of the carbon without melting the pipes.

1,470,360. LOCKING DEVICE FOR SAVINGS DEPOSIT BOXES. MYRON L. HAFER and JULES H. ROSENBERG, Philadelphia, Pa. Filed June 30, 1922. Serial No. 571,911. 5 Claims. (Cl. 232—4.)

1. A savings deposit box comprising a casing closed at its top and open at its bottom, an inner projection on the lower portion of said casing, a flexible disc having resilient tongues engaging said projection, and means operated from the bottom of said casing for flexing said tongues, said disk closing the lower portion of said casing.

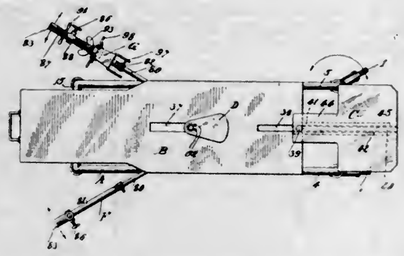


1,470,361. OCEAN COMPRESSED-AIR POWER. CHARLES N. HARE, Los Angeles, Calif. Filed June 7, 1921. Serial No. 475,584. 9 Claims. (Cl. 230—32.)



1. In an apparatus of the class described comprising a pier, a cage secured to the pier, a stationary cylinder secured to said cage, and a reciprocating tank mounted in said cage and having a vacuum chamber therein, cylinders with open upper ends secured in said reciprocating tank; said cylinders being positioned to telescope with said stationary cylinder, and a storage tunnel for the purpose specified.

1,470,362. SELF-FREEING ORTHOPEDIC TABLE. GEORGE W. HAWLEY, Bridgeport, Conn., assignor to The Knyscheerer Corporation of America, a Corporation of New York. Filed Nov. 4, 1921. Serial No. 512,727. 17 Claims. (Cl. 128—71.)



1. In combination in an orthopedic and fracture table, a lower frame-work providing an upwardly projecting supporting post; a body support vertically movable relatively to said frame-work and supporting post; a pelvic support-plate having a socket connection with said supporting post independently of said body support; and

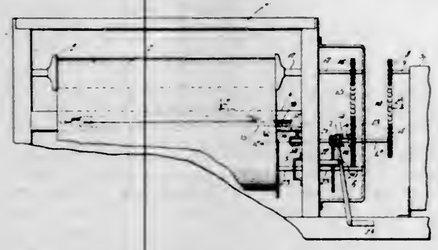
means provided on said lower frame-work for engaging the socket connection of said pelvic support-plate positively to disconnect it from said supporting post.

1,470,363. TRANSPOSING TRACKER BAR. ROBERT HEAD, Yonkers, N. Y., assignor to The Aeolian Company, a Corporation of Connecticut. Filed June 5, 1920, Serial No. 386,897. Renewed May 1, 1922. Serial No. 557,784. 20 Claims. (Cl. 54—145.)



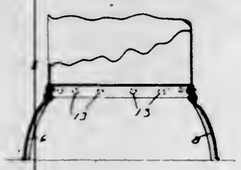
11. In an automatic player, a tracker bar having a movable section provided with a rack, an operating handle a double-ended pawl carried by said handle, and relatively stationary springs engaged by the ends of the pawl as the handle is operated in opposite directions to carry same into engagement with the rack, said pawl having inclined cam shoulders engaged by said springs.

1,470,364. TRANSPOSER FOR AUTOMATIC PIANOS AND THE LIKE. ROBERT HEAD, Yonkers, N. Y., assignor to The Aeolian Company, a Corporation of Connecticut. Filed Aug. 19, 1920, Serial No. 404,509. Renewed May 1, 1922. Serial No. 557,783. 13 Claims. (Cl. 84—145.)



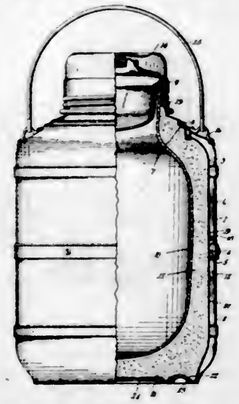
3. In combination with an automatic player using perforated music-sheets, means for adjusting a part of the player to transpose the music until said part is released; means for rewinding the music-sheet; means automatically operated from said rewind for releasing said transposer part; and means for automatically restoring said part to a normal, non-transposing position.

1,470,365. SHEET-METAL HEATING STOVE. JACOB HERBST, San Francisco, Calif. Filed Aug. 16, 1922. Serial No. 582,187. 1 Claim. (Cl. 126—65.)



A sheet metal stove comprising a side, a top, and a bottom having a downwardly extending flange outwardly turned at its lower edge to receive the lower edge of the side, supporting legs each leg having a curved groove to fit and form a seat for the lower edges of the stove side and bottom flange and a bolt to secure each leg to the stove.

1,470,366. HEAT-INSULATED VESSEL. VICTOR S. JOHNSON, Chicago, Ill., assignor to The Mantle Lamp Company of America, Chicago, Ill., a Corporation of Illinois. Filed June 26, 1922. Serial No. 570,948. 14 Claims. (Cl. 215—12.)



1. A heat-insulated vessel including a removable outer jacket and a unitary filler, said filler including a frangible container, a heat-insulator surrounding said container, and a jacket enveloping said heat-insulator, said filler jacket being spaced from said outer jacket.

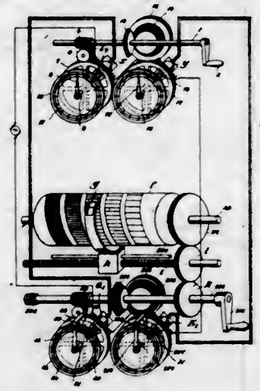
1,470,367. METAL POST. ARTHUR D. JONES, Des Moines, Iowa. Filed Dec. 9, 1922. Serial No. 605,971. 1 Claim. (Cl. 256—54.)



A metal post comprising a sheet formed into a hollow cylinder with inwardly projecting adjacent parallel strips at its edges, secured together and forming a longitudinal internal rib, said strips having a series of corresponding adjacent grooves forming staple receiving passages curved on the arcs of circles alternately toward and from each other.

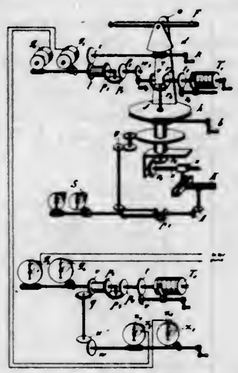
1,470,368. ELECTRIC SIGNALING SYSTEM. PAUL KAMINSKI, Berlin-Pankow, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, Germany. Filed Jan. 27, 1921. Serial No. 440,551. 2 Claims. (Cl. 89—41.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In an electrical arrangement for the tele-control of guns having coarse and fine adjustment according to the follow-the-pointer principle, electrically operating transmitters having pointers and uniformly divided scales therefor to indicate jointly the desired angular amount of the inclination of the gun, a control means for adjusting said transmitters, electrically operating receivers connected to said transmitters and having corresponding indicating pointers for indicating the position of the transmitter pointers, an adjusting device adapted to move the gun and having following pointers and adapted to simultaneously cause the following pointers to coincide with



said indicating pointers, in combination with means operated by said adjusting device for indicating at the receiver the range increasing non-uniformly with the inclination of the gun.

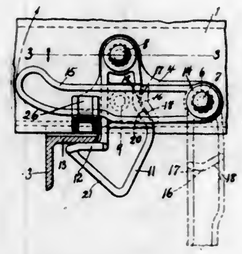
1,470,369. TELEADJUSTER FOR GUNS AND THE LIKE. PAUL KAMINSKI, Berlin-Pankow, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Nov. 16, 1922. Serial No. 601,422. 2 Claims. (Cl. 89—41.)



1. In an arrangement for the telecontrol of guns or the like, a direction telescope and stationary transmitter for transmitting the training movements of the telescope with respect to the concentration correction, and non-stationary transmitters for transmitting the vertical movements of said telescope to the guns, said direction telescope being located higher than the guns, a drum calibrated for the range, and suitably connected and operated to impart the concentration correction to the stationary transmitters for the bearing angle, and special gearing for connecting said drum also to said non-stationary transmitters for the vertical movements of said telescope, said special gearing having a suitable ratio for correcting the angle of dip.

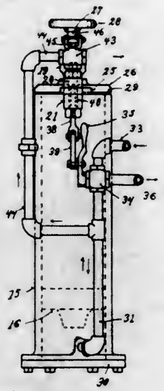
1,470,370. DOOR-LATCHING MEANS. ADOLPH KASSLER, New York, N. Y., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 3, 1922. Serial No. 598,770. 7 Claims. (Cl. 105—308.)

1. In a car, a door, a latch for said door pivotally mounted on said car and having angularly disposed contact surfaces, an operating handle, a lug on said handle having angularly disposed contact surfaces and a stop for



said handle adapted to position said lug with the contact surfaces of the lug in engagement with the contact surfaces on the latch.

1,470,371. SAUSAGE-STUFFING APPARATUS. HERMAN C. AHRENS, Cincinnati, Ohio. Filed July 19, 1922. Serial No. 576,108. 6 Claims. (Cl. 17—39.)

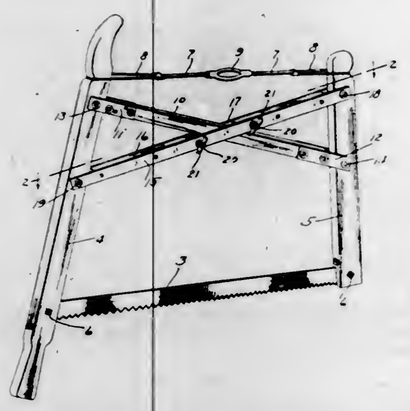


1. Sausage stuffing apparatus comprising a cylinder a plunger mounted therein, a yoke pivotally attached to said cylinder a press screw carried by said yoke, a cylinder head mounted upon said press screw and adapted to be applied to and removed from one end of said cylinder, a fluid conduit leading to said cylinder and through which fluid pressure is adapted to be applied to one end of said plunger, a controller valve operable to apply fluid pressure to and exhaust fluid under pressure from said cylinder, and means operable in unison with the movements of said controller valve and operable only when said yoke is in position for the cylinder head to close the cylinder to safeguard the operation of said controller valve.

1,470,372. BUCKSAW FRAME. VICTOR C. ANDERSON, Minneapolis, Minn. Filed Oct. 14, 1922. Serial No. 594,470. 3 Claims. (Cl. 145—32.)

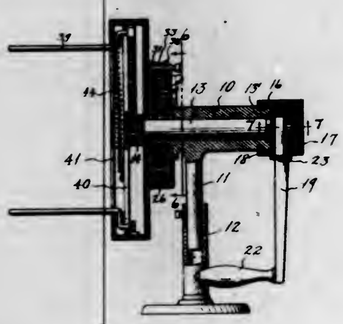
1. A bucksaw comprising end bars, a saw blade connected to the lower ends of said bars, an adjustable tension link connecting the upper ends of said end bars, and transversely intersecting thrust bars connecting said end bars between the saw blade and tension link, one of

said thrust bars comprising metal straps embracing the intermediate portion of the other thrust bar and provided



with nut-equipped bolts for clamping the intermediate portions of said straps onto the embraced portion of the intersecting thrust bar.

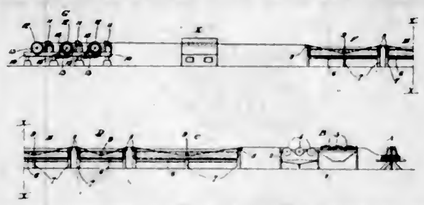
1,470,373. REELING DEVICE. RAYMOND BARRIER, Lubbock, Tex. Filed Jan. 27, 1922. Serial No. 532,109. 6 Claims. (Cl. 242—61.)



6. In a reeling device, a support having a head, a shaft mounted to revolve in the head, a housing mounted on the outer end of the shaft to be revolved thereby, a pair of rack bars mounted in the housing, a pinion on the shaft engaging between the bars for moving the same in opposite directions, arms carried by the bars, a spring drum surrounding the head and normally free from connection with the housing, a ratchet carried by the head, a pawl mounted on the drum and engaging the ratchet, means for connecting the drum with the housing, and means for revolving the shaft.

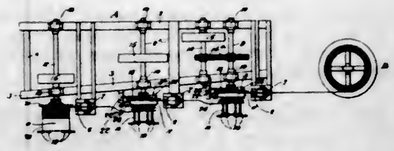
1,470,374. METHOD OF CONTINUOUSLY CLEANING AND DRAWING WIRE. ERNST BOLEY, Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey, a Corporation of New Jersey. Filed Dec. 27, 1920. Serial No. 433,281. 2 Claims. Cl. 205—21.)

1. In the manufacture of wire from bundled rods, the method which consists in gradually uncoiling the bundled rods and subjecting the sequentially uncoiled portions thereof, successively, to scale removing, pickling and



coating operations, prior to the drawing operation, and then subjecting the coated rods to at least one cold drawing operation.

1,470,375. CONTINUOUS-WIRE-DRAWING BENCH. ERNST BOLEY, Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey, a Corporation of New Jersey. Filed Dec. 27, 1920. Serial No. 433,283. 18 Claims. (Cl. 205—14.)



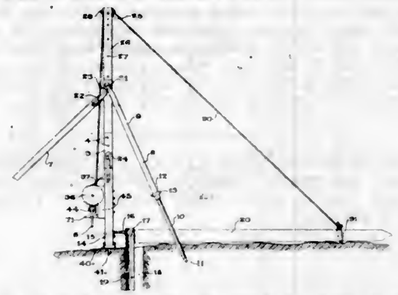
1. A continuous wire drawing bench having a plurality of die blocks, dies on said die blocks, a plurality of wire drawing blocks on said bench, said die blocks and drawing blocks being arranged for successively drawing the wire through said plurality of dies, and means for holding a portion of the wire taut while allowing other portions to form loose coils on said wire drawing blocks.

1,470,376. TROUSERS PRESSER. EDWARD CHAMBERS, Winchester, England. Filed May 6, 1922. Serial No. 558,956. 4 Claims. (Cl. 223—13.)



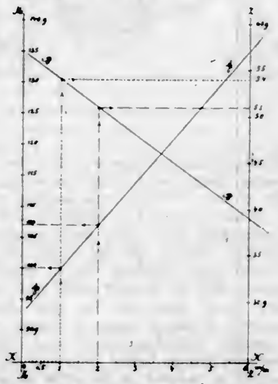
1. A garment press, comprising relatively movable pressing boards, a bar movably mounted at the free end of one of the boards and over which a garment is to be passed, and a block mounted on the free end of the other board, said block engaging the bar and clamping the garment therebetween as the boards are moved toward pressing relation, and said bar and block holding and stretching the garment as the boards are moved into pressing relation, the block moving the bar relative to its mounting.

1,470,377. POLE-RAISING APPARATUS. WEBB KIMBERLING, Norton, Va. Filed July 25, 1922. Serial No. 577,463. 2 Claims. (Cl. 214—3.)



1. A raising apparatus comprising a frame, a main pole socketed in and removably associated with the frame, a sheave carried at the upper end of the main pole, means for bracing said pole, said means being adjustable and detachably associated with the pole, a cable passed over the sheave and adapted to be attached to the device to be raised, and winding mechanism carried by the frame and adapted to take up the cable; the said frame comprising spaced uprights, a base fixed to the lower end of said uprights and having spikes, and straps connecting the lower and upper portions of the uprights and disposed at opposite sides of the said main pole.

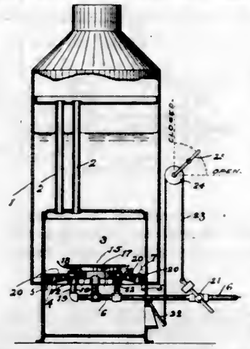
1,470,378. METHOD OF MANUFACTURING ARTIFICIAL BUILDING MATERIALS. ADOLF KLEINLOGEL, Darmstadt, Germany. Filed Dec. 5, 1921. Serial No. 519,887. 3 Claims. (Cl. 106—24.)



1. A building material comprising Portland cement and particles of metal and water mixed in a certain proportion by weight, the mixture being made up of $(93+7d)$ grammes of metal particles and $(57-3d)$ grammes of Portland cement in every $(150+4d)$ grammes of the mixture, if d in millimeters denotes the diameter of the metal particles admixed.

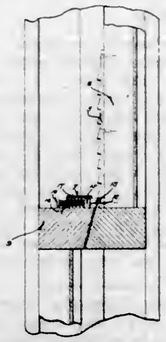
1,470,379. OIL BURNER. LEO KRESSER, Springfield, Mass. Filed Oct. 3, 1922. Serial No. 592,101. 4 Claims. (Cl. 158—91.)

4. In an oil burning apparatus, the combination of a plate member formed with a plurality of air inlet passages and a centrally arranged main air inlet passageway, a plurality of oil inlet passages located about the centrally arranged air inlet passages and which are maintained in a cool condition by the incoming stream of cool air therethrough to prevent the oil from being vaporized, said centrally arranged air passage being surrounded with an oil receiving chamber having a depending flange which is open at its bottom part and which is in communication with the plurality of oil inlet passages, and an air deflecting plate spaced from the upper end of the main air inlet passageway,



said plate member having an inclined bottom surface for permitting the oil to flow by gravity from the oil inlet passages and an oil absorbent material located on the inclined bottom surface for taking up the oil as described.

1,470,380. WINDOW-SASH LOCK. ALFRED P. KUTSCHE and ARTHUR A. WINTER, Milwaukee, Wis. Filed Dec. 20, 1921. Serial No. 523,656. 1 Claim. (Cl. 292—175.)

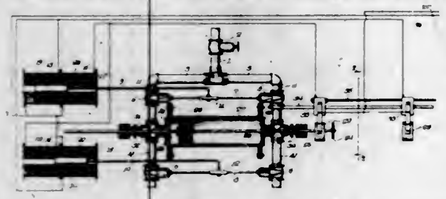


In a device of the class described, a one piece rectangular hollow housing having an open bottom and slotted end walls, a one piece bolt slidably held within said housing and having an enlarged tongue projecting through the slot in one of said end walls and having an enlarged shouldered portion adapted to contact with the inner side of said end wall to limit the outward movement of said bolt, said bolt having a straight reduced portion extending through the slot in the other end wall and terminating in an operating head in axial alignment with such reduced portion, and a coiled spring surrounding said reduced portion and bearing at one end against said last mentioned wall and at its other end against said shouldered portion, said bolt having a downwardly extending lug adjacent said operating head adapted to cooperate with said shouldered portion to guide said bolt when said housing is attached to a flat surface.

1,470,381. FILLING MACHINE. HARRY LAMB, New Westminster, Canada, assignor to Swift & Company, Chicago, Ill., a Corporation of Illinois. Filed July 2, 1921. Serial No. 482,267. 3 Claims. (Cl. 73—30.)

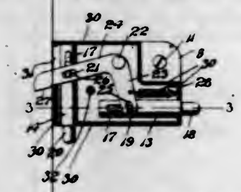
3. In a measuring apparatus of the class described, a suppy conduit, a delivery spout, a cylinder communi-

cating with said supply conduit and delivery spout, a piston in said cylinder driven by the pressure of material forced along said supply conduit and forcing a definite quantity of the material through the delivery



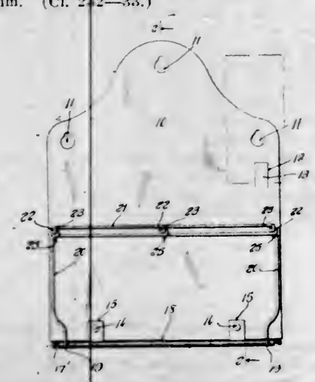
spout, valves for controlling the action if the piston, electro-magnetic means for operating the valves, and said electro-magnetic means being under the control of the piston.

1,470,382. WINDOW FASTENER. ERNST G. LANCE, Detroit, Mich., assignor of one-half to Otto C. Russ, Lake Odessa, Mich. Filed July 23, 1921. Serial No. 486,986. 4 Claims. (Cl. 292—40.)



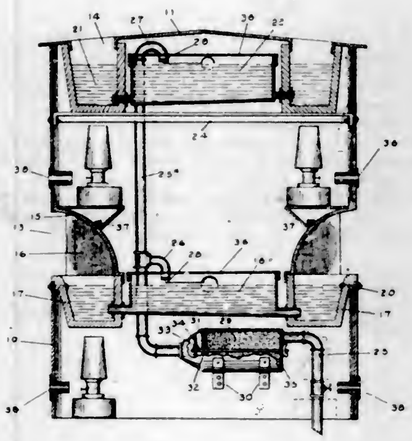
1. A latch for windows, comprising a base plate, two U-shaped guides having slotted upper sides secured to the upper side of the base and positioned at right angles to each other, locking pins slidably mounted under said guides, each having an operating pin attached thereto and extending upwardly through the slots in the guides, a bell crank lever pivotally mounted on the base having two arms, one being slotted at its free end for the reception of one of said operating pins, and the other having a slot between its ends in which the other operating pin extends, said last mentioned arm being extended beyond the base and formed with a down-turned lip at one edge, substantially as described.

1,470,383. COLLAPSIBLE BOTTLE HOLDER. GEORGE E. LLEWELLYN, Eau Claire, Wis., assignor, by mesne assignments, to Sanitary Novelties Company, a Corporation. Filed Feb. 10, 1922. Serial No. 535,565. 1 Claim. (Cl. 232—33.)



The combination of a back plate, a pair of straps secured at the bottom edge thereof, the middle of said straps being outwardly directed, a wire extending in a substantial rectangle, rotatably secured in said straps, a shelf having its ends formed into eyes secured to said first wire, said second mentioned wire having three loops formed therein, three rods each having an end formed into an eye pivoting on one of said loops, the other ends of said rods being extended at an angle to said rods, and eyes on said back plates for receiving said ends and locking said shelf in raised position.

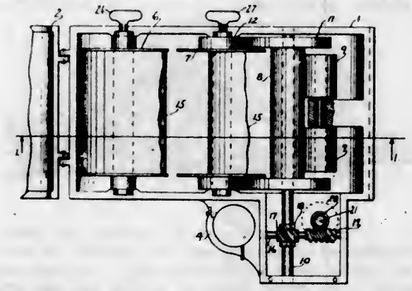
1,470,384. COMBINATION CATTLE AND HOG WATERING FOUNTAIN. CHARLIE LONG, Lincoln, Nebr. Filed Apr. 10, 1922. Serial No. 551,077. 1 Claim. (Cl. 119—73.)



A combination drinking fountain for live stock including a casing, openings at diametrically opposite positions in said casing, drinking cups secured to the casing on the inside thereof and adjacent said openings, a trough connecting said cups, said openings having curved walls for closing the top, back, and sides of the recess above each drinking cup, a cover for said casing, drinking cups in contact with and immediately beneath said cover, openings in said cover above said last named drinking cups, a trough connecting said last named drinking cups, said last named drinking cups and trough being supported on a removable shelf which is secured at its ends to said casing, both of said troughs having sloping bottoms, said sloping bottoms being so formed that the troughs may be completely drained by gravity, horizontal shelves secured to the top portions of said curved walls, said horizontal shelves being adapted to support lamps immediately beneath said second named drinking cups, means for supplying all of said drinking cups and troughs with water from a water supply system under pressure, and means for maintaining the water at a constant level in each of said troughs.

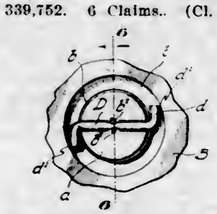
1,470,385. ROUTE INDICATOR. GROVER H. MEADE, San Jose, Calif. Filed Oct. 8, 1921. Serial No. 506,459. 1 Claim. (Cl. 40—42.)

A route indicator comprising a casing, spools journaled therein, a ribbon windable upon said spools, a driving roller journaled in the casing, a driving wheel fixed at each end of the roller and operatively engaging one of said spools to drive the same, a journal bearing arm extending from the casing walls toward the roller, and a pair of idler rollers supported on opposite



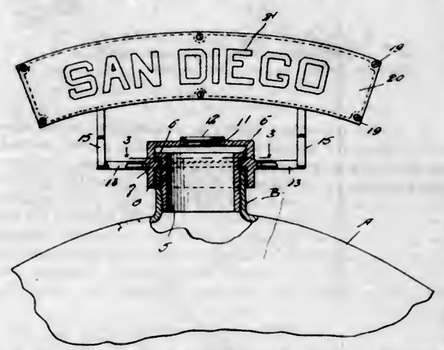
sides of said arm in a journal bearing therein and pressing against the first roller at points between the spaced driving wheels.

1,470,386. LOCK FOR FILLISTER-HEAD SCREWS. HENRY MILLER, Milwaukee, Wis. Filed Nov. 21, 1919. Serial No. 339,752. 6 Claims. (Cl. 151—32.)



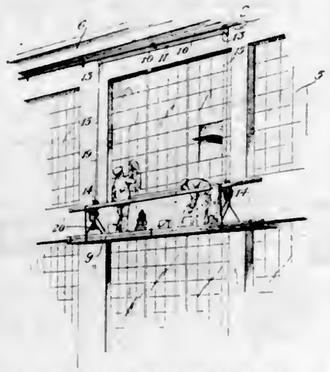
1. In a locking device for holding screws against reverse rotation, the combination of a screw having a slot in its head, and a plate provided with a countersunk hole into which the screw is passed, such hole being enlarged into an annular recess at the upper end of substantially the same depth as the slot in the head of the screw, with a locking member for the screw, such member comprising a shank to be placed in the slot of the screw and projecting portions extending in the same plane to engage the side walls of the annular recess with a biting contact.

1,470,387. VEHICLE SIGN. JESSE ALLAN MORGAN, San Diego, Calif. Filed Mar. 30, 1923. Serial No. 628,758. 3 Claims. (Cl. 40—125.5.)



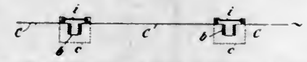
1. In combination with the filling nozzle of a motor vehicle radiator, which nozzle is internally screw threaded, of an externally screw threaded sleeve member adapted for screw threaded engagement with the said radiator filling nozzle, a cap loosely positioned over said sleeve member and having a suitable sign casing positioned thereon, and means between the said sleeve and cap for rotating said sleeve when the cap is rotated in a certain direction, said means being displaceable when the cap is rotated in a reverse direction.

1,470,388. WINDOW-WASHING APPARATUS. EUGENE PITOU, New York, N. Y. Filed Apr. 26, 1922. Serial No. 556,727. 4 Claims. (Cl. 304—16.)



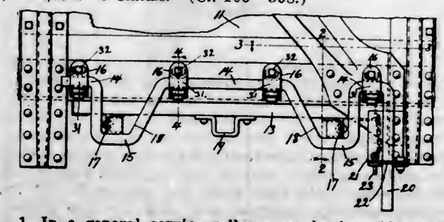
1. In a window washing apparatus, wall brackets, a horizontally inclined rail mounted upon said brackets, carriage trucks mounted upon said rail, connecting bars hinged together and to said trucks, a scaffold secured to said trucks, hoisting devices carried by said scaffold and connected to said trucks, and means pivotally mounted upon said trucks engaging said rails for adjustably holding the carriages against travelling movement upon said rail.

1,470,389. RADIO PILOT-CABLE SYSTEM. LUDWIG RELLSTAB, Zeist, Netherlands, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a German Corporation. Filed Aug. 23, 1921. Serial No. 494,726. 1 Claim. (Cl. 177—386.)



A pilot cable system for vessels having a cable located at the bottom of the fairway and carrying a non-continuous current, and including receiving loops located on the vessel for determining the position of the vessel laterally of the cable, in combination with submarine sound transmitters suitably distributed over the length of the cable and actuated by the cable current for indicating desired points along the path of the vessel, and means on the vessel independent of said loops for receiving the signals from said sound transmitters.

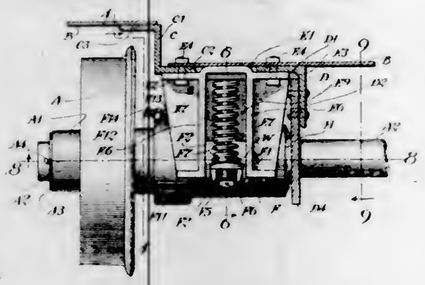
1,470,390. GENERAL-SERVICE RAILWAY CAR. WILLIAM J. ROA, St. Louis, Mo., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 29, 1922. Serial No. 585,034. 6 Claims. (Cl. 105—308.)



1. In a general service railway car having side walls and a floor, a plurality of manually operable drop doors

forming part of the floor area of the car and hinged with their free edges adjacent the car sides, manually and severally operable door supporting shafts rotatably mounted on the side walls above the free edges of said doors when closed, said shafts being operable independently to release said doors.

1,470,391. RAILWAY CAR. HUGH W. SANFORD, Knoxville, Tenn. Filed June 3, 1922. Serial No. 565,566. 30 Claims. (Cl. 295—42.)



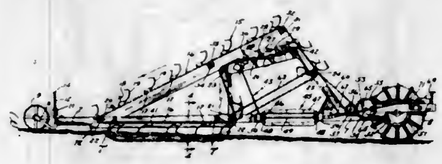
30. In a structure of the kind described, the combination of an axle, a wheel on the axle, an axle box surrounding the axle and having an end wall, the outer face of which is convex, and a stationary abutment plate positioned to be engaged by said axle box wall, substantially as described.

1,470,392. VENTILATOR HOOD FOR WINDOWS. Herman Schreier, Sheboygan, Wis. Filed Apr. 25, 1922. Serial No. 556,362. 3 Claims. (Cl. 98—31.)



3. A ventilator hood for attachment to the upper portion of a window casing comprising a structure including a front panel, end panels, and a roof top section integrally connecting the end panels, said roof top section having a downturned deflecting flange adjacent its outer portion and spaced from the front panel to provide a vent slot, and an upwardly inclined weather shield attached to the top edge of the front panel and end panels and extending upwardly therefrom over said roof top section whereby water is deflected from the upper top portion of the hood.

1,470,393. QUACK-GRASS DIGGER. CHRIST SIBVERT, Cailo, N. Dak. Filed Mar. 1, 1920. Serial No. 362,260. 8 Claims. (Cl. 55—51.)

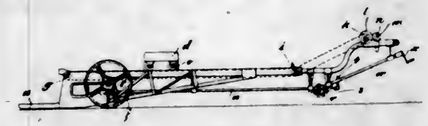


1. In a quack grass digger, the combination with a wheel-supported frame and means for propelling the same, of an endless travelling rake having a working zone mounted on the frame, means for driving the rake, and means for guiding the rake through the ground in its working zone in a plane, sloping upwardly in the direction of its movement.

3. In a quack grass digger, the combination with a wheel-supported frame and means for propelling the same, of an endless travelling rake having a working zone mounted on the frame, means for driving the rake, said rake comprising a pair of endless chains, and a plurality of tooth-equipped bars carried by the chains the teeth of which are adapted to move through the ground, guide rails on the frame, and guide members on said transverse bars engageable with the guide rails during the travel of the rake through the ground in its working zone for guiding the rake upwardly during its travel through the working zone.

4. In a quack grass digger, the combination with a wheel-supported frame and means for propelling the same, of an endless travelling rake mounted on the frame, means for driving the rake, said rake comprising a pair of endless chains and a plurality of tooth-equipped bars carried by the chains, said rake arranged to travel through a working zone, an elevating zone and a discharge zone, and means operative on the rake, while passing through its discharge zone, to intermittently impart to its transverse bars a movement that will throw the teeth upward and backward.

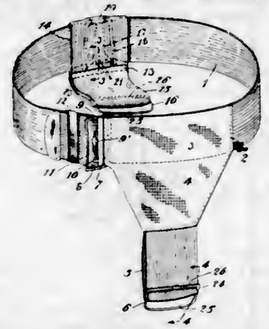
1,470,394. CONVEYING APPARATUS. ALFRED SMALLWOOD, London, England. Filed Mar. 8, 1920. Serial No. 364,268. 3 Claims. (Cl. 214—26.)



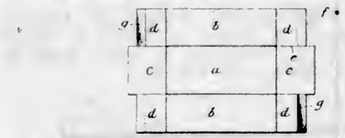
1. A load conveying apparatus comprising coaxial running wheels for supporting the apparatus on the ground, an operating structure supported by said wheels, the operating structure including a forwardly projecting portion terminating in a load carrying fork, and a rearwardly projecting portion terminating in a handle adapted for use by the operator of the apparatus, a counterweight movable on the rearward projection of the operating structure and means adjacent the handle for positively rotating the supporting wheels to advance the apparatus over the ground.

1,470,395. CATAMENIAL-SACK SUPPORTER. ABRAHAM L. SMITH, New York, N. Y., assignor of one-half to Orilla M. Smith, New York, N. Y. Filed Nov. 18, 1922. Serial No. 601,748. 2 Claims. (Cl. 128—291.)

2. In a catamenial sack supporter, in combination, a relatively broad belt, a towel engaging strap having a loop by which it is slidably adjustable on the belt, a brace of stiff flat material fitted within the loop, to maintain its height, means in said brace for the slidable reception of the belt, and means upon the brace for removably engaging the belt to localize the strap thereon.

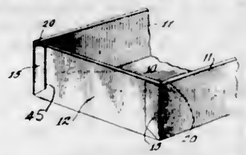


1,470,396. PAPER-BOX CONSTRUCTION. HARRY BRIDGMAN SMITH, Brooklyn, N. Y. Filed Dec. 9, 1920. Serial No. 429,399. 8 Claims. (Cl. 229—32.)



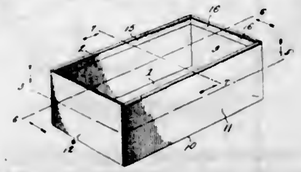
1. A box shell blank having corner laps, the free ends of which are reduced in thickness, the reduction being made on opposite surfaces of the blank with respect to the corner laps at the same end of the box.

1,470,397. PAPER-BOX CONSTRUCTION. HARRY BRIDGMAN SMITH, Brooklyn, N. Y. Filed Dec. 10, 1920. Serial No. 429,630. 11 Claims. (Cl. 229—32.)



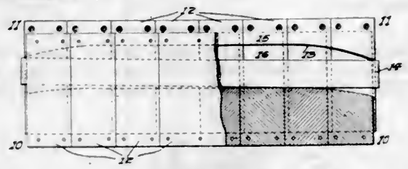
3. A cardboard box shell blank comprising a body portion, side and end wings, and corner laps of reduced thickness extending from certain of the wings, the reduction in thickness of the laps being made on the inner side of the blank material.

1,470,398. SEMILOOSE-WRAPPED BOX. HARRY BRIDGMAN SMITH, Brooklyn, N. Y. Filed Dec. 20, 1920 Serial No. 431,912. 16 Claims. (Cl. 229—32.)



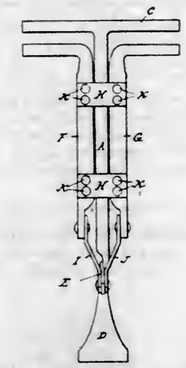
1. A box consisting of a covered shell characterized by the exposed cover material being tightly secured on two opposite walls of the box and loosely applied on other walls of the box.

1,470,399. FLEXIBLE DIES FOR BENDING THIN METAL PLATES IN THE DIRECTION OF THEIR WIDTH. REUBEN STANLEY SMITH, Milwaukee, Wis., assignor, by mesne assignments, to First Wisconsin Trust Company, trustee, a Corporation of New York. Filed Sept. 12, 1921. Serial No. 500,019. 7 Claims. (Cl. 78—60.)



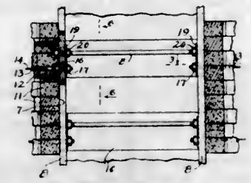
1. The combination of a pair of co-acting flexible dies for bending metal plates in the direction of their width, each of the dies of the pair comprising a set of interchangeable die units arranged respectively to bear against the edges of the plate to exert a bending pressure and upon the sides of the plate to exert a clamping pressure.

1,470,400. TONGS. WILLIAM SMITH and PATRICK J. SPILLANE, Houston, Pa. Filed Mar. 22, 1922. Serial No. 545,772. 1 Claim. (Cl. 294—115.)



A tong for handling sheet metal, comprising a main section provided with a jaw on one end and a handle-bar on its opposite end, auxiliary handle-bars movably secured on said section by means of plates, a jaw D, pivoted to the main section which terminates into an arm, links connected at one end to the bars F, and G, and their opposite ends to the arm of the jaw D, all substantially as and for the purposes shown and described.

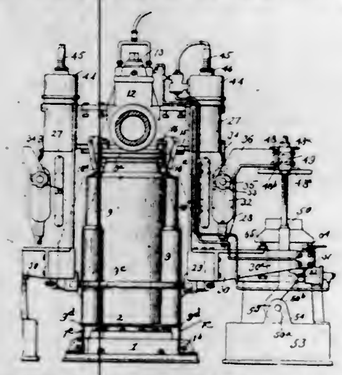
1,470,401. BRICK SILO. CHRIS. V. SORENSEN and HERBERT H. PANSCH, Racine, Wis. Filed Nov. 6, 1920. Serial No. 422,260. 1 Claim. (Cl. 72—6.)



A circular silo having brick walls with a vertically extending opening, jambs at the sides of said opening, spaced rods having threaded ends extending through the jambs, plates abutting the inner sides of the jamb and mounted on said rods, nuts on the ends of said rods

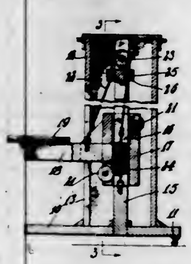
clamping the jambs and plates between them, the brick in some of the courses having longitudinally extending recesses forming substantially circular grooves, solid metal reinforcing rods disposed in said grooves and having threaded ends passing through the jambs and through openings in said plates, and nuts on the threaded ends of said reinforcing rods clamping said plates and jambs between them.

1,470,402. MOLDING MACHINE. JOHN T. STONEY and RAYMOND E. STONEY, Cleveland, Ohio. Filed May 19, 1920. Serial No. 382,509. 34 Claims. (Cl. 22—21.)



1. A molding machine comprising a central portion, a head which is rotatable on said central portion and a plurality of molding mechanisms comprising a flask supporting means and a squeezing means associated with said head and movable into different positions as the head is turned.

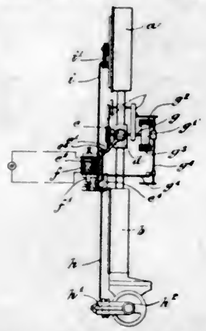
1,470,403. PORTABLE JUMPING TREE. FRANK ROBERT THALKEN, Coney Island, Brooklyn, N. Y. Filed June 7, 1922. Serial No. 566,572. 3 Claims. (Cl. 46—22.)



1. A toy of the type described comprising a platform, a housing supported on one end thereof, a vertical guide in said housing, a crosshead slidable on said guide, a seat fixed to said crosshead, and a spring resiliently supporting said seat and crosshead.

1,470,404. CINEMATOGRAPHIC PROJECTOR. CLARENCE L. THOMPSON, Elmhurst, N. Y., assignor to Lydia B. Koch, New York, N. Y. Filed Mar. 11, 1920, Serial No. 365,032. Renewed July 27, 1923. 5 Claims. (Cl. 88—17.)

1. A cinematographic projector embodying therein in combination with a high amperage source of light, projector lenses, and a film feeding mechanism of a light screen adapted to be interposed between said source of light and said film feeding mechanism, having closely juxtaposed, transparent areas and areas adapted to refract or absorb infra red rays of light, actuating means for said light screen, means controlling said film feeding mechanism and operative connections between said means and said actuating means, whereby the screen will be interposed between said source of light and said film



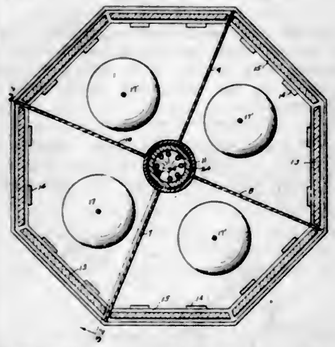
feeding mechanism, substantially simultaneously with the stoppage of said mechanism, and will be moved out of the path of the light when said last named means is actuated to permit the film feeding mechanism to actuate.

1,470,405. FOUNTAIN PEN. WILLIAM UHL, Rochester, N. Y., assignor of one-half to Halford B. Wardin, Rochester, N. Y. Filed June 21, 1920. Serial No. 390,366. 2 Claims. (Cl. 120—43.)



1. In a fountain pen, the combination with a barrel having an ink reservoir therein and a writing point split to form a plurality of tines, of a feeding tongue having a longitudinally extending interior cavity communicating with the reservoir and also provided with a laterally opening longitudinal channel intersecting the outer extremity of the cavity at one end of the slot and extending to the interior surface of the writing point, the other or outer end of the slot being relatively shallow and constituting a channel leading along the surface of the tongue to the tip of the writing point.

1,470,406. SIGNALING DEVICE. FREDERICK B. WATKINS, Los Angeles, Calif. Filed Jan. 4, 1921. Serial No. 434,981. 3 Claims. (Cl. 177—329.)



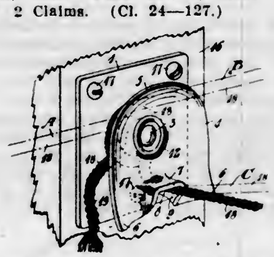
2. An electrically operated signaling device, a housing containing a continuous glass perimeter divided into four equal compartments, two lights of different colors in each compartment; and means under the control of the driver for illuminating any two adjacent compartments of the same color and the other two compartments of a different color at the same time, whereby signals, indicating the intended movements of the vehicle, are visible from all points of the compass.

1,470,407. METHOD AND MOVING-PICTURE FILM FOR ANALYZING MOTION. CHARLES P. WATSON, New York, N. Y. Filed May 13, 1920. Serial No. 380,970. 6 Claims. (Cl. 88—18.)

1. The method of analyzing motion which consists in exposing a sensitized film strip in a moving picture camera to take a moving picture on the film of the object or part, movement of which is to be analyzed, the said object or part being constantly illuminated and the film being intermittently moved between exposures at a rate substantially greater than 150 movements and exposures per second, while substantially preventing relative vibration between the lens of the camera and the film at the point of exposure thereof, and of the camera with respect to the object or part being photographed, then developing the negative film and making a corresponding positive thereof and projecting the latter at a rate of about 16 exposures per second.

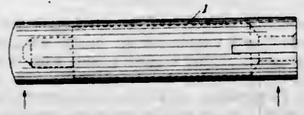
6. The improved moving picture film for analyzing motion, having thereon consecutive pictures of the object or part, movement of which is to be analyzed, taken while the object is substantially constantly illuminated and at a rate substantially greater than 150 per second, and with intermittent movement of the film at a rate substantially greater than 150 intermittent movements per second, the film thereby having substantially more than 150 different views of the object in a second, the pictures being regularly disposed on the film and capable of being projecting at a rate of about 16 per second without blurring or the like.

1,470,408. LINE FASTENER. FREDERICK H. WELLER, Cincinnati, Ohio. Filed Oct. 1, 1921. Serial No. 504,609. 2 Claims. (Cl. 24—127.)



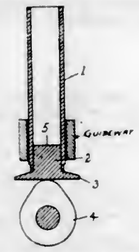
1. In a line fastener, two upright rigid members rigidly related to each other with an annular channel between them, the sides of said channel being substantially smooth and converging radially inwardly but materially spaced apart at their radially innermost extent, whereby a line may be wound therearound and held therebetween and one of said members having a recess in its lower edge with lateral and radially inward walls of material line-protecting area and smoothness to receive the taut portion of the line and prevent unwinding of said line when said taut portion is raised.

1,470,409. TAPPET. MERRILL M. WILCOX, Saginaw, Mich. Filed Dec. 11, 1920. Serial No. 430,030. 4 Claims. (Cl. 123—90.)



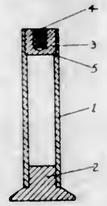
1. As an article of manufacture a tappet comprising a tubular body and a case-hardened cam-contacting head, said head having an elongated shank adapted to be received in one end of said body, said shank recessed and secured to said tubular body by welding, for the purposes set forth.

1,470,410. TAPPET. MERRILL M. WILCOX, Saginaw, Mich. Filed Sept. 19, 1919. Serial No. 324,959. 5 Claims. (Cl. 123—90.)



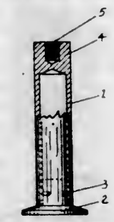
1. A tappet for internal combustion engines comprising a hollow tubular body, an independent cam-contacting head of hardened material having an elongated axially projecting shank integral with said head, said shank received in and fixed to an end of said body.

1,470,411. TAPPET. MERRILL M. WILCOX, Saginaw, Mich., assignor to Wilcox Motor Parts & Manufacturing Co., Saginaw, Mich., a Corporation of Michigan. Continuation of application Serial No. 324,959, filed Sept. 19, 1919. This application filed May 23, 1921. Serial No. 471,835. 2 Claims. (Cl. 123—90.)



1. As an article of manufacture, a tappet comprising a hollow tubular body, a hardened head having an elongated cylindrical shank fixed to said body, the opposite end of said body formed with an enlarged bore and an internal shoulder at the end of said bore, a cylindrical plug received entirely within said enlarged bore and abutting against said internal shoulder, said plug fixed to said body, the outer end of said plug flush with the end of said tubular body.

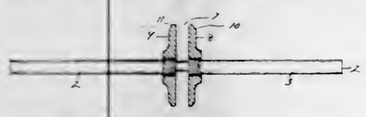
1,470,412. TAPPET. MERRILL M. WILCOX, Saginaw, Mich. Original application filed Sept. 19, 1919, Serial No. 324,959. Divided and this application filed May 23, 1921. Serial No. 471,836. 1 Claim. (Cl. 123—90.)



As an article of manufacture, a tappet comprising a hollow cylindrical body of substantially uniform external diameter throughout its length, said body bored throughout a part only of its length, thereby forming a closure

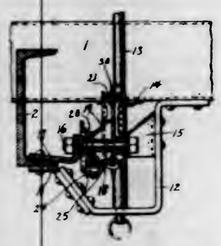
integral with said body at one end, a cam-contacting head having a hardened face and an elongated cylindrical shank of reduced diameter, said shank received in the other end of said tubular body and welded thereto.

1,470,413. METHOD FOR MAKING VALVES. MERRILL M. WILCOX, Saginaw, Mich. Filed July 24, 1922. Serial No. 577,265. 11 Claims. (Cl. 29—156.7.)



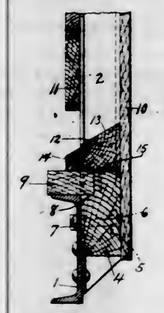
1. The method of making valves comprising the anchoring of an oversized head upon a pair of stem sections, and machining the head and stem sections.

1,470,414. CAM SHEAVE FOR BRAKES. VICTOR R. WILLOUGHBY, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 29, 1921. Serial No. 496,443. 4 Claims. (Cl. 74—112.)



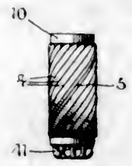
1. A plurality of sills, a brake lever, a brake staff, a stirrup carried by said sills adapted to support said staff, means connecting said lever and said staff comprising a power multiplying sheave and means connected to said sills and stirrup, adapted to support said sheave.

1,470,415. CAR CONSTRUCTION. VICTOR R. WILLOUGHBY, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 31, 1922. Serial No. 598,097. 5 Claims. (Cl. 105—407.)



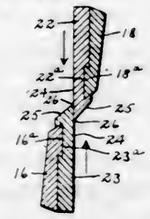
1. In a car, posts, a nailing strip between said posts, a filler block between said posts and engaging said strip and metal plates between said filler block and strip adjacent said posts, said plates being flanged to conform to said posts.

1,470,416. CUTTER FOR PENCIL SHARPENERS. ALLEN P. WILSON, Waltham, Mass., assignor to Boston Pencil Pointer Company, Waltham, Mass., a Corporation of Massachusetts. Filed June 17, 1920. Serial No. 389,648. 4 Claims. (Cl. 120—96.)



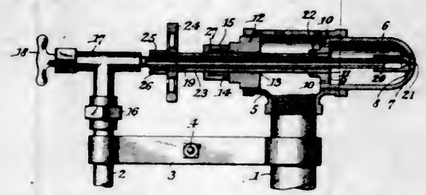
4. A rotatable cutter for pencil sharpeners comprising a sheet metal tube having one or more exterior pencil sharpening blades struck up therefrom, and reinforcing means within the tube projecting outwardly along the underside of said blade or blades.

1,470,417. SHEARS OR SCISSORS. HENRY WINTLE, Jackman, Me. Filed Mar. 6, 1922. Serial No. 541,449. 3 Claims. (Cl. 30—13.)



1. Shears comprising a pair of separately formed blades having longitudinal dovetail grooves in their outer sides; and a pair of body members connected by a pivot, and having handles extending rearward from the pivot, and blade-engaging arms projecting forward from the pivot, and spaced apart to receive the blades between their inner sides, the blade-engaging arms being provided with longitudinal dovetail ribs on their inner sides, which enter the blade grooves, and are narrower than the arms, so that portions of the arms bear on, and laterally support, portions of the outer sides of the blades.

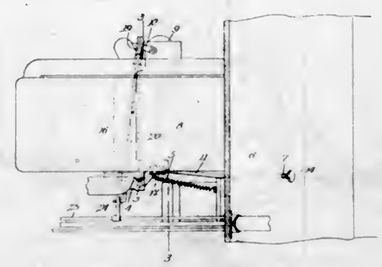
1,470,418. HYDROCARBON BURNER. ALBERT G. YENT, Jeffersonville, Ind., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed May 27, 1920. Serial No. 384,657. 1 Claim. (Cl. 158—75.)



In a liquid fuel burner, a T, an air nozzle fitted to one arm of said T and having an air outlet port, the inner end of said nozzle having a closing wall with ports and a threaded opening, a plug in the opposite arm of the T and having an opening, an air inlet pipe fitted to an arm of the T, an oil inlet pipe, a valve for controlling the flow of oil, an oil supply pipe communicating with said oil inlet pipe and passed through the openings in the closing wall of the air nozzle and plug, an oil nozzle on

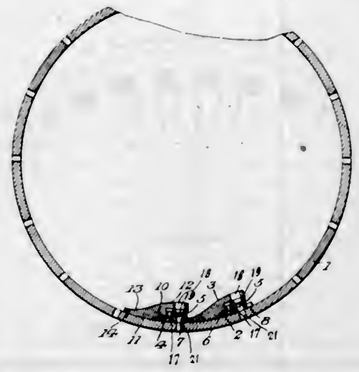
the end of said oil supply pipe and having an outlet opening, said oil nozzle fitted to close the air outlet of the air nozzle, a tube surrounding said oil supply pipe and having one end threaded in the opening of said closing wall, and means on said tube exteriorly of the T for rotating the air nozzle relative to the oil nozzle.

1,470,419. ACCELERATOR. THOMAS M. ABRAHAM, Manquin, Va. Filed July 12, 1922. Serial No. 574,488. 2 Claims. (Cl. 74—39.)



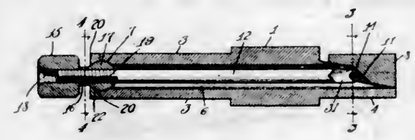
1. In combination with an automobile having a hand operated throttle rod, of a foot throttle between the automobile and the carbureter for the motor thereof, including a bell crank lever having one of its arms spring influenced, a throttle rod between the body of the machine and the said arm of the bell crank lever, a second rod connected to the second arm of the bell crank lever and to the handle for the throttle valve of the carbureter, a plate having an angle end connected to said rod, a rod passing freely through the angle end of the plate and pivotally connected to the hand throttle rod, and adjustable stop means between the angle end of the plate and the last mentioned rod.

1,470,420. BALL-MILL LINING. THOMAS B. H. ASKIN, Denver, Colo., and GUY H. RUGGLES, Inspiration, Ariz., assignors to Frank E. Marcy, Los Angeles, Calif. Filed Nov. 8, 1921. Serial No. 513,684. 7 Claims. (Cl. 83—9.)



1. A ball or grinding mill lining comprising a plurality of pillow blocks and wearing plates, the wearing plates overlying and protecting the pillow blocks, one edge of said pillow block being recessed at the ends adapted to receive the extended edges of the adjacent wearing plate.

1,470,421. WRENCH. JAMES F. ASTLEY, Camden, N. J. Filed Feb. 13, 1922. Serial No. 536,216. 2 Claims. (Cl. 81—53.)

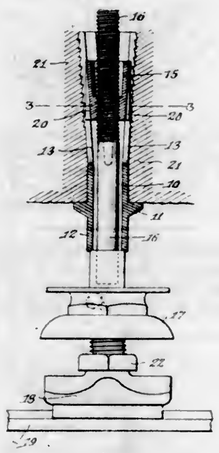


1. A device of the class described comprising a body having an inclined edge; a grip mounted to slide on said edge; a nut mounted to rock on the body; a connection threaded into the nut; and means for uniting the connection with the grip.

1,470,422. SALVE OR OINTMENT. GEORGE G. BOWLUS, Burkittsville, Md. Filed Nov. 16, 1921. Serial No. 515,567. 2 Claims. (Cl. 167—9.)

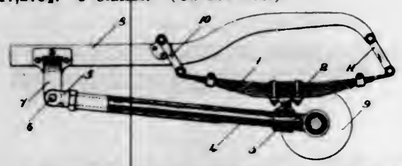
1. A salve or ointment comprising red lead, linseed oil and verdigris, turpentine and camphor, substantially as set forth.

1,470,423. TROLLEY-WIRE HANGER. WALTER L. BRADY, Dehue, W. Va. Filed July 11, 1922. Serial No. 574,191. 1 Claim. (Cl. 85—24.)



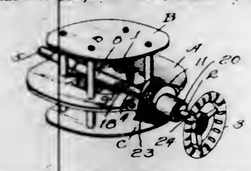
A trolley wire hanger comprising a holding element in the form of a tubular stock consisting of a polygonal-shaped lower portion, a cylindrical intermediate portion and an upper portion having its wall slit throughout at a plurality of points to form a series of tongues shiftable outwardly with respect to said intermediate portion and each having its outer face provided with teeth, said stock further including a lateral flange at the point of joinder between said intermediate and lower portions, a head member abutting against said lower portion, a hanger rod carried by the head member and extending up through said stock and having the upper portion thereof threaded, and a tapered sleeve mounted in said upper portion and provided with internal threads engaging with the threads of said rod to provide for the moving of the sleeve downwardly causing thereby the outward shifting of the tongues to engaging position, said sleeve having peripheral ribs engaging between the tongues to arrest rotative movement of the sleeve when moved downwardly by the rod.

1,470,424. SPRINGING OF ROAD VEHICLES AND THE LIKE. THOMAS WILLIAM EDWIN BROGDEN, Dungannon, Ireland. Filed Feb. 6, 1923. Serial No. 617,279½. 5 Claims. (Cl. 267—36.)



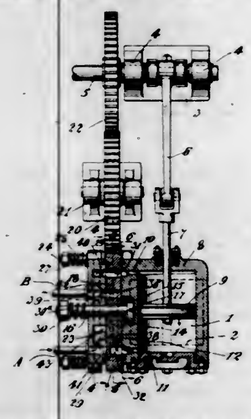
1. An adjustable spring suspension for vehicles comprising a load-supporting spring mounted to shift bodily in a direction longitudinally of the chassis of the vehicle, a pivoted member against which the spring bears and which transmits the load from the spring to an axle of the vehicle, and a slide connected to the spring and shiftable relatively to the chassis to shift the spring longitudinally of the vehicle and thus alter the distance between the pivotal center of said member and the point at which the spring bears on said member, thereby varying the leverage through which the shocks acting on the axle are transmitted to the spring.

1,470,425. MEANS FOR OPERATING DAMPERS. THOMAS J. CURTIS, Los Angeles, Calif. Filed Apr. 30, 1923. Serial No. 635,554. 13 Claims. (Cl. 126—285.)



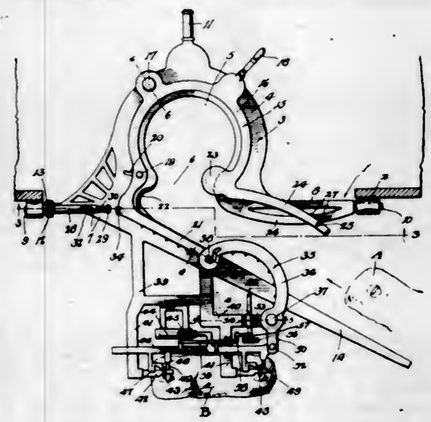
1. The combination with a damper comprising two rotative members, of a shaft adapted to rotate said members in unison, said shaft being longitudinally movable to a position whereby rotation of the shaft will rotate one only of said members, substantially as described.

1,470,426. DOUBLE-ACTING RECIPROCATING PUMP. HANS E. DANSTRUP, Brooklyn, N. Y., assignor of one-half to Joseph Harrison, Brooklyn, N. Y. Filed Oct. 11, 1922. Serial No. 593,845. 8 Claims. (Cl. 103—173.)



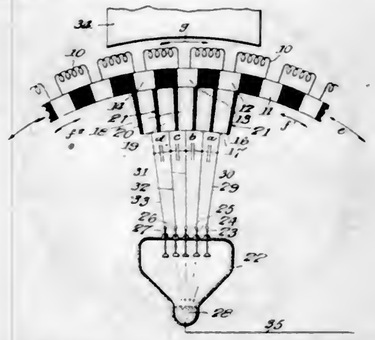
1. A pump comprising a cylinder, a reciprocatory piston therein, a peripherally exposed, disc-like valve revoluble against one side of the cylinder in a plane parallel with the cylinder axis, tensional means to press said valve against the cylinder, and passage ways controlled by said valve to communicate with the cylinder at opposite sides of the piston during the respective entire strokes thereof, respectively for alternate outflow and inflow purposes according to the direction of piston movement.

1,470,427. AUTOMATIC MAIL-BAG CATCHER AND DELIVERER. WILLIAM DAVIS, Philadelphia, Pa., assignor to The William D. Davis Machine Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 18, 1920. Serial No. 390,052. 9 Claims. (Cl. 258—13.)



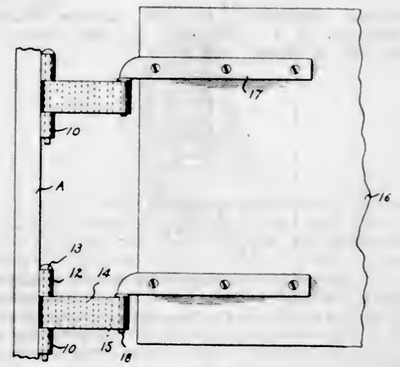
1. In mail bag catching and delivering mechanism, a frame comprising a bag-receiving portion and a guiding portion to direct a bag into the receiving portion, bag-embracing means supported by the frame and movable with relation thereto to embrace a bag within the receiving portion of the frame, means for supporting a bag to be delivered, means for ejecting a bag from said supporting means, and trip means common to the bag embracing means and said ejecting means to simultaneously operate the same.

1,470,428. COMMUTATION OF DYNAMO-ELECTRIC MACHINES. JOHN W. DORSEY, Winnipeg, Manitoba, Canada. Filed Feb. 14, 1920. Serial No. 358,763. 5 Claims. (Cl. 171—228.)



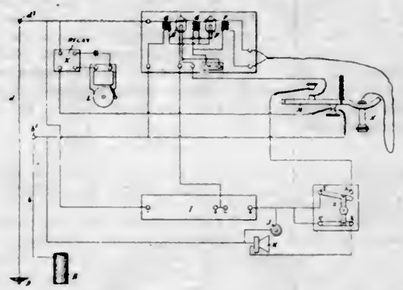
1. In a dynamo electric machine the combination of armature coils and a single commutator therefor, of a sectional brush and electric arc device having multiple positive terminals, one of said terminals being connected to each of said brush sections, and means for entirely preventing the flow of short circuit current in or between the brush sections for any position of brushes on said commutator.

1,470,429. SWIVEL BRACKET. WILLIAM E. DUNBAR, Jacksonville, Fla. Filed Oct. 27, 1922. Serial No. 597,347. 1 Claim. (Cl. 40—102.)



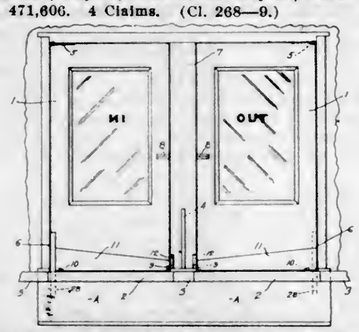
A device of the character described comprising a series of hinge leaves formed with knuckles and designed to be mounted upon an upright supporting surface, pintle pins passing through the knuckles of each leaf, a link for each leaf provided with a plurality of spaced vertical holes, one endmost hole being designed for the reception of the pintle pin, and a supporting sheet carrying arms formed with depending trunnions rotatably engaged within other holes of the links, the links being adapted to carry a plurality of sheets.

1,470,430. TELEPHONE AMPLIFIER SYSTEM. MICHAEL CHETWYND ELLISON, Huttons, England. Filed Oct. 16, 1922. Serial No. 594,850. 1 Claim. (Cl. 179—81.)



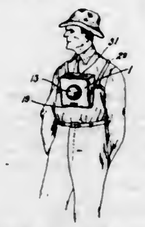
A combined transmitting and receiving station having a receiving circuit including an audio frequency amplifier comprising a plurality of three electrode valves and intervalve transformers therefor, a step-down telephone transformer receiving the output therefrom, a telephone receiver electrically connected with said telephone transformer; a transmitting circuit including a microphone in series with a source of current; a calling circuit including a relay; a relay circuit comprising the relay contacts, a calling bell and a local battery; switching means for making and breaking the transmitting circuit and the filament circuit of the amplifier alternately; a receiver switch adapted to close the calling circuit and break the filament circuit of the amplifier when the receiver is placed thereon and to break the calling circuit and close the amplifier filament circuit when the receiver is removed; and a calling button shunting said microphone and switching means, whereby the valves are extinguished upon replacing the receiver and the pulse of current at calling may be prevented from actuating the local receiving amplifier.

1,470,431. DOOR-CONTROLLING MECHANISM. PETER D. EVANS, Dayton, Ohio. Filed May 23, 1921. Serial No. 471,606. 4 Claims. (Cl. 268—9.)



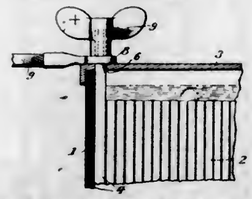
1. In door operating mechanism, the combination with a swinging door, of an operable floor adjacent the doorway, and connections between the door and floor whereby upon placing movable weight on the floor on one side of the door said door will be swung open and upon removing the weight on the other side of the door said door will be swung shut, and means other than said connections for retaining the door in said open and closed positions.

1,470,432. LANTERN. WILLIAM T. EVANS, Mitchell, Nebr. Filed May 15, 1922. Serial No. 561,000. 3 Claims. (Cl. 240—8.4.)



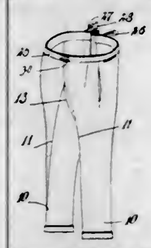
1. A device of the class described comprising a casing having an opening in its front face, a lamp body located in said opening, a cranked rod passing through the casing and having a handle on its projecting end, a spring clamp on the lamp body engaging the crank of said rod so that the lamp body can be tilted in the opening, a battery in the casing, a circuit from the battery to the lamp, a switch in the circuit, the switch handle projecting from the front of the casing and doors for permitting access to the casing.

1,470,433. BATTERY CONNECTION. ADOLPH FRETSCHEL, Almena, Wis. Filed Feb. 28, 1921. Serial No. 448,594. 1 Claim. (Cl. 204—29.)



In a device of the class described, a battery plate provided at its upper edge with an integral terminal post, said post being interiorly and exteriorly threaded, a connection for said post, and a wing nut interiorly threaded for engagement with the externally threaded portion of the post, said nut having a central elongated and threaded stem formed thereon for engagement with the interiorly threaded portion of said terminal post.

1,470,434. METHOD OF MAKING TROUSERS. Rocco Frezza, Trenton, N. J. Filed Sept. 28, 1922. Serial No. 591,109. 2 Claims. (Cl. 2—122.)



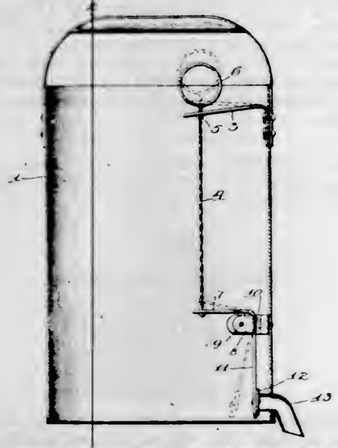
2. In a pair of trousers, a waistband, a device through which said waistband is looped at the back and with which it has sliding engagement, and straps for pulling upon and extending said looped portion of the waistband, the said device comprising a flattened ring passed through slots in said waistband.

1,470,435. INSECT CATCHER. Charles Fowler, Tomkins Cove, N. Y. Filed Apr. 7, 1922. Serial No. 550,403. 5 Claims. (Cl. 43—136.)



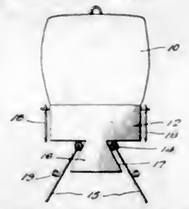
1. In an insect catcher, a ring, a sack having its open end of substantially equal diameter with said ring, the said sack having its open end inserted in said ring and the extremities of the said end bent over to form a flange encircling the exterior surface of said ring, and a band embracing said flange to clamp the same to said ring.

1,470,436. VERMIN-KILLING DEVICE FOR PLANTS. John W. Furman, Point Township, Northumberland County, Pa. Filed Apr. 18, 1922. Serial No. 554,618. 1 Claim. (Cl. 221—15.)



In a vermin exterminator, a container having an outlet at the side near the bottom, an arm hinged to one side of the container and carrying a valve positioned over said outlet, a flat spring having a bent portion secured to the side of the container above said outlet and an operating rod connected to said arm and to the free end of said spring, the distance between the said points of connection being such that the valve will normally be held closed.

1,470,437. SWIMMING DEVICE. August Gardelis, Princeton, N. J. Filed Jan. 14, 1921. Serial No. 437,245. 2 Claims. (Cl. 9—21.)

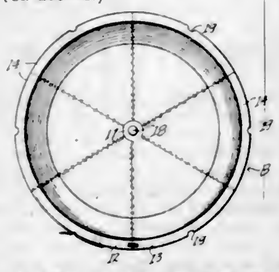


1. A swimming device comprising a shoe, a relatively thick hollow sole inclnded in the shoe, a hollow extension disposed centrally and longitudinally along the bottom of and communicating with the interior of the sole, said hollow extension co-operating with the sole to provide a buoyant shoe, oppositely disposed downwardly and outwardly inclined walls provided on the extension and wings hingedly secured along one of their edges at the juncture of the shoe and extension.

1,470,438. STAMP AFFIXER. Asher Golden, New York, N. Y. Filed Mar. 21, 1921. Serial No. 454,086. 2 Claims. (Cl. 216—33.)

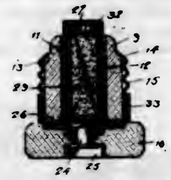
1. In a stamp affixer the combination of an open housing comprising side walls with side arms, a roof connecting the arms, supporting flanges extending from the side arms, a guide plate with longitudinal guide flanges clamped to said roof, a protecting and pressing wing formed with the guide plate, a drum journaled in said side walls and a moistening pad supported on the supporting flanges.

1,470,439. CAMPER'S KIT. Leandro O. Gaspar, Manor, Calif. Filed Mar. 31, 1922. Serial No. 548,495. 1 Claim. (Cl. 206—4.)



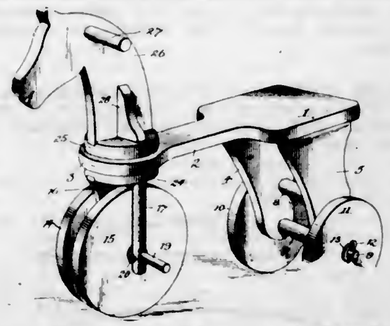
In a device of the character described, the combination with a container, of a handle pivoted to said container and provided with a spring hook portion, a collapsible plate including two end sections and a plurality of connected intermediate sections, each of said sections being engaged and terminating in disc-like pivoted extremities, means for connecting the end sections when the sections are extended, and a spring clip receivable in the notches of the sections for retaining the sections in a nested position.

1,470,440. FUSE. Gilbert W. Goodridge, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed May 18, 1921. Serial No. 470,500. 4 Claims. (Cl. 200—128.)



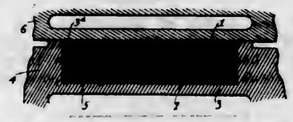
1. A fuse device of the plug type having cap and body elements of insulating material, a screw shell side contact encasing the body element and having in assembled condition an end web engaged between the adjacent faces of the cap and body elements, and an adjacent cylindrical non-threaded area, said body element having a longitudinally extending chamber open at the entering end of the plug to receive a renewable fuse cartridge, together with an external insulating ring arranged on said cylindrical portion of the said screw shell adjacent and confined between the threaded area of the shell and the cap element to prevent accidental contact with the shell during the manipulation of the plug.

1,470,441. TOY VEHICLE. Warren T. Green, St. Louis, Mo., assignor to The Mengel Company, Louisville, Ky., a Corporation of New Jersey. Filed Oct. 15, 1920. Serial No. 417,157. Renewed Aug. 14, 1922. Serial No. 581,845. 9 Claims. (Cl. 208—165.)



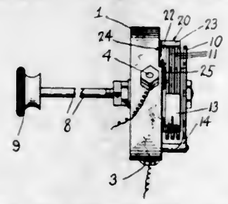
1. In a child's vehicle, the combination of a body having an opening formed at its forward end with a pair of oppositely disposed arcuate slots arranged adjacent thereto; a pair of disk-like members respectively contacting the upper and lower faces of said forward end; and wheel sustaining and guiding means attached to said disks and extending through the opening and slots aforesaid.

1,470,442. METHOD OF MAKING VULCANIZED PRODUCTS. James E. Grosjean, Lima, Ohio. Filed Dec. 30, 1919. Serial No. 348,295. 4 Claims. (Cl. 154—2.)



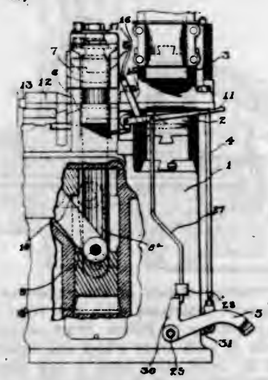
1. The method of making heels for boots and shoes which comprises assembling an attaching member and a tread member at the opposite sides of a body of vulcanizable plastic material of relatively larger area, said attaching and tread members comprising plies of textile material and intervening vulcanizable material, compressing together said attaching and tread members and body, while the body is confined peripherally and under sufficient pressure to squeeze said attaching and tread members into the opposite sides of said body and to force a portion of the material outwardly from the space between said members beyond the peripheries of said members and to cause the material so forced to spread in both directions transversely of the direction of outward flow to form margins of substantial width around the peripheries of the attaching and tread members, and vulcanizing the resulting product to unite the attaching and tread members to the intervening body and surrounding margins.

1,470,443. SIGNAL LOCK FOR AUTOMOBILES. Arthur M. Haight, Jackson, Mich. Filed Mar. 8, 1920. Serial No. 364,275. 1 Claim. (Cl. 200—45.)



A lock of the character described comprising a body, a sleeve extending through said body, a spindle mounted in said sleeve, a knurled handle secured to one end of said spindle, a plurality of combination discs loosely mounted on said sleeve having enlarged V-shaped peripheral notches and provided with threaded openings, a plurality of adjustably threaded lugs engaging the threaded openings in said discs, a spring secured to said body and adapted to engage one of said lugs, a ratchet disc removably secured to said spindle adjacent to the opposite end thereof and provided with an opening receiving one of said lugs, a resilient detent engaging the periphery of said ratchet disc, a contact member, a plurality of spring influenced shoes engaging said discs, a swinging spring influenced electric contact member having a major portion adapted to engage said contact member aforesaid and having a minor portion provided with a toe adapted to engage the periphery of said discs and to enter the V-shaped notches in said discs, as and for the purpose specified.

1,470,444. FORGING-MACHINE DEVICE. Frank A. Halleck, Oak Park, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed May 9, 1917. Serial No. 167,509. 27 Claims. (Cl. 76—5.)



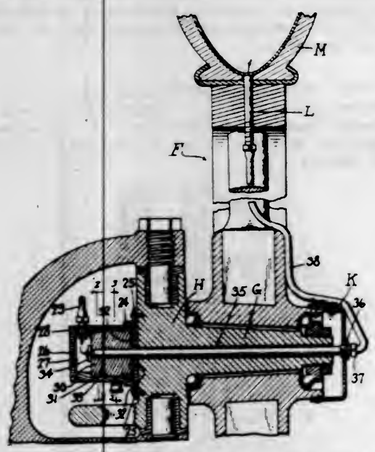
1. In a forging mechanism, a vertically movable clamping member, a horizontally reciprocable punch, and punch operating means carried by said clamping member.

1,470,445. COMBINATION ROPE SOCKET AND JAR. MERLIN C. HAZARD, Huntington Beach, Calif. Filed Dec. 29, 1922. Serial No. 609,619. 1 Claim. (Cl. 24—241.)



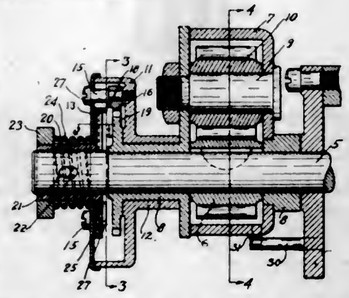
A combined rope socket and jar comprising an elongated body structure having in its lower portion an elongated slot with a lateral mouth at its upper end, the slot being unobstructed from end to end and forming on one side below the said mouth an elongated link-receiving hook, a closure piece pivoted at its lower end on the upper end of the hook and adapted to be closed into the mouth, the upper lip of the mouth being provided with a socket to receive the inserted end of the closure, and a fastening member passing through the socket and inserted closure end.

1,470,446. TIRE-INFLATING DEVICE. HARRY D. HAZELBAKER, Portsmouth, Ohio. Filed Sept. 20, 1920. Serial No. 411,527. 1 Claim. (Cl. 152—11.)



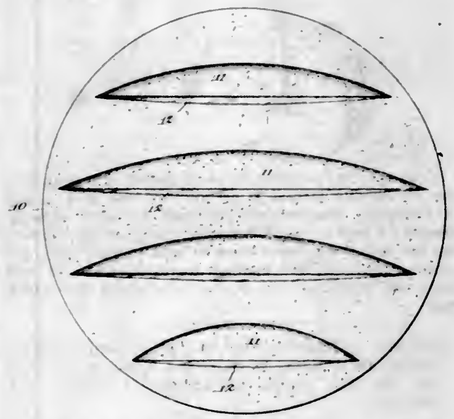
In a tire inflating system of the character described distributing means associated with the front wheels of the vehicle comprising a hollow drum secured to the movable spindle of each front wheel and connected with a compressed air conducting pipe, a cap secured upon the hub of the associated front wheel and replacing the usual hub cap, a cylindrical member rotatable within said drum, a hollow tubular spindle secured to said cylindrical member and to said cap and rotatable through the usual front spindle supporting the wheels, and a tube connected with the outer end of said hollow spindle and connected with the valve stem of the associated tire.

1,470,447. STARTING DEVICE FOR INTERNAL-COMBUSTION ENGINES. STEPHEN JENCICK, Cleveland, Ohio, assignor to Gustavus A. Schanze, Cleveland, Ohio. Filed June 11, 1920. Serial No. 388,196. 16 Claims. (Cl. 74—7.)



1. Starting mechanism for operative connection with a gear that is adapted to be driven by an internal combustion motor, comprising a starting shaft carrying a primary driving pinion, an intermediate pinion adapted to be driven thereby and adapted to move in an orbital path about the said shaft, into and out of mesh with the gear, and means for retarding rotation of said intermediate pinion about its own axis to cause orbital movement thereof into meshing relation with the gear, said means including a pawl and ratchet mechanism and relatively movable clutch members for controlling the same.

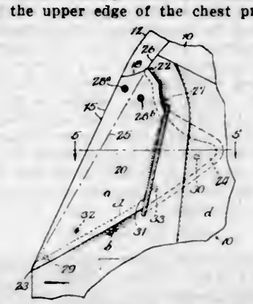
1,470,448. UNBREAKABLE ANTIGLARE LENS. PETER JOHNSON and GEORGE A. GRAY, Arlington, N. J. Filed Sept. 17, 1921. Serial No. 501,268. 2 Claims. (Cl. 240—48.4.)



1. As a new article of manufacture, an anti-glare lens formed of a single piece of frosted celluloid and comprising a body portion, and hoods integral therewith, said hoods having angularly disposed clear base elements.

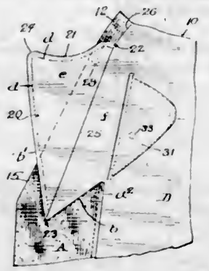
1,470,449. OVERCOAT. JOSEPH KOCHANSKI, Chicago, Ill. Filed Jan. 18, 1922. Serial No. 530,069. 2 Claims. (Cl. 2—86.)

2. In a garment having a lapel and facing, a chest protector having one of its faces formed as a continuation of the lapel, and its opposite face formed as a continuation of the facing, both faces being marginally secured and the upper edge of the chest protector being



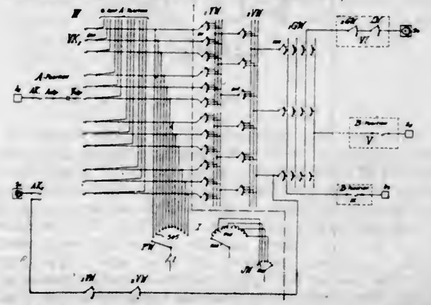
of such width as to extend across the neck opening when the garment is in its buttoned position.

1,470,450. OVERCOAT. JOSEPH KOCHANSKI, Chicago, Ill. Filed Dec. 15, 1922. Serial No. 607,029. 2 Claims. (Cl. 2—86.)



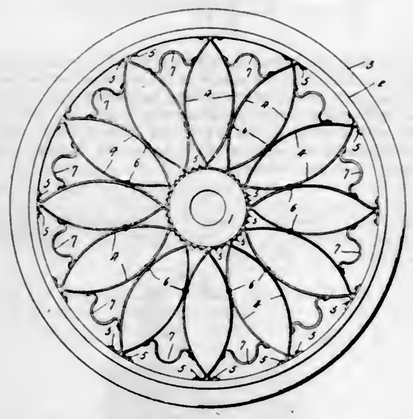
2. In a garment, two front pieces, facings therefor, and a coat lining, the facing for the under side of one front piece being stitched at its outer edge to the front piece, and at its inner edge to the coat lining, and there being a slit in said facing extending from the inner stitched edge toward the outer stitched edge, the upper edge of the facing at the slit being stitched to the lining and that part of the facing above the slit forming a flap, normally projecting inwardly, said flap, at its upper edge, being of such width as to extend across the neck-opening when the garment is in its buttoned position, and said flap forming a continuation of said facing, and constituting a chest protector.

1,470,451. TELEPHONE-EXCHANGE SYSTEM. THEODOR KORTHÄUER, Siemensstadt, near Berlin, Germany, assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 9, 1921. Serial No. 521,264. 10 Claims. (Cl. 179—27.)



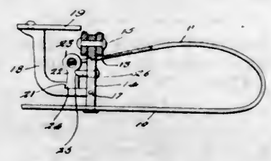
1. In a telephone system, two exchanges, means including an operator's link circuit and directively controlled automatic switching means whereby an operator can set up a connection from a calling subscriber's line in one exchange to a line in the other exchange, and means whereby said operator can place the setting up of the connection under the control of the said calling line, said control being exercised over a path exclusive of said link circuit.

1,470,452. SPRING WHEEL. ARTHUR H. KUTSCHE, Monroe, Mich. Filed Sept. 23, 1921. Serial No. 502,754. 1 Claim. (Cl. 152—51.)



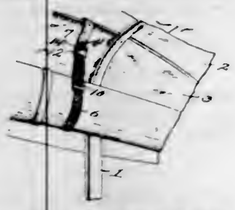
A resilient wheel having a hub, a rim, pairs of resilient spokes connecting the hub and rim, the spokes of each pair being bowed outwardly from a radial line passing between them, the spokes of adjacent pairs being in direct contact about the wheel, the terminals of each pair of spokes at the hub ends extending in opposite directions externally and about the periphery of the hub, fastenings passing through said terminals and into the hub, the said terminals of the different pairs contacting at their free end edges with each other, and auxiliary bowed springs relatively close to the rim out of contact therewith and connecting the spokes of adjacent pairs.

1,470,453. ANIMAL TRAP. WALLACE LA VALLEY, Hancock, N. Y. Filed Mar. 26, 1923. Serial No. 627,781. 1 Claim. (Cl. 43—93.)



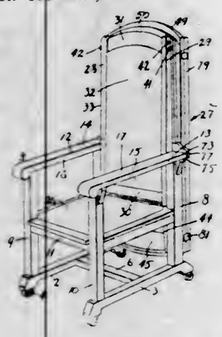
In a trap comprising a base, a spring extending from one end of and overlying the base with its free end widened and formed with an opening, a post rising from the base and carrying jaws pivoted thereon, the post and the jaws extending through said opening, and and the jaws overlying the free end of the spring when in set position, a pin projecting laterally from said post, a trigger pivoted upon the free end of the spring and formed at one edge with a notch engaging said pin and having one corner at the opposite edge formed with a toe, an arm pivoted on the post and carrying a treadle, said arm being formed with a retaining shoulder engaging said toe.

1,470,454. CURTAIN HOLDER FOR AUTOMOBILE CURTAINS. HENRY LANDEWEER and JOSEPH F. HAAS, Chicago, Ill. Filed June 28, 1922. Serial No. 571,442. 4 Claims. (Cl. 296—140.)



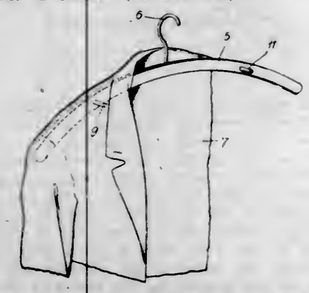
3. A curtain holder comprising a rigid portion bendable to conform to the shape of the exterior surface of a padding strip and having a hooked end adapted to embrace the upper edge of said padding strip, a flexible strap permanently secured to the lower end of said rigid portion and latchably securable at its opposite end to the hooked end of said rigid portion.

1,470,455. CHAIR. JOHN W. LANG, Redondo Beach, Calif. Filed Sept. 29, 1922. Serial No. 591,280. 2 Claims. (Cl. 155—43.)



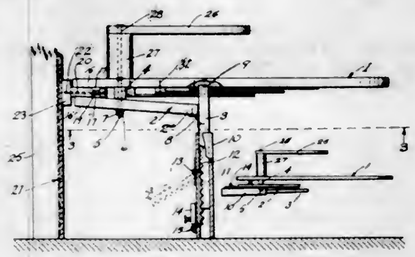
1. A transformable chair comprising arms, having rounded free ends, a chair back movably supported to occupy vertical and horizontal positions, stops carried by the chair back, and rollers carried by the chair back, said rollers being disposed in a plane below the plane of the stops so as to support the chair back for rolling movement on the arms until the rollers engage the rounded ends of the arms when the chair back will be lowered to allow the stops engaging the arms.

1,470,456. GARMENT HANGER. WILLIAM H. LEMKE, Harlan, Iowa. Filed Mar. 26, 1923. Serial No. 627,720. 1 Claim. (Cl. 211—13.)



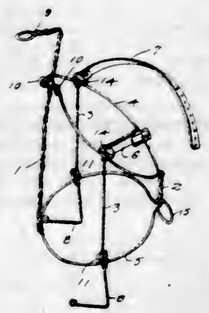
A garment hanger comprising a longitudinally curved bar adapted to receive a garment thereover with the shoulder portions of the garment draped over the end portions of the bar, a hook carried by the intermediate part of the bar for suspending it with its end portions sloping downwardly to conform to the general configuration of the shoulder portions of a garment, and transversely disposed pins mounted through the opposite end portions of the bar in spaced relation to the extremities thereof, said pins at opposite ends extending for a considerable distance beyond the adjacent sides of the bar for engaging the front and rear portions of the garment to hold the same from sliding from the bar and for maintaining the shoulder portions of the garment from sagging and collapsing.

1,470,457. IRONING BOARD. JOHN L. LIALE, Redlands, Calif. Filed May 20, 1920. Serial No. 382,792. 4 Claims. (Cl. 68—10.)



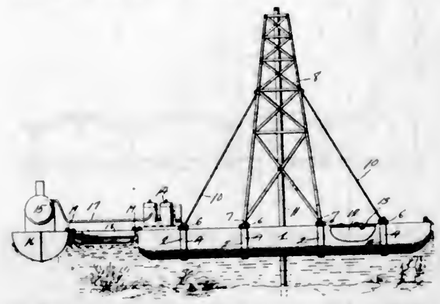
3. An adjustable support for ironing boards, comprising a supporting sleeve, a supporting upright, said sleeve and upright being slidably associated with each other, a portion of said sleeve being mounted to occupy locking and non-locking positions with respect to said upright, said upright and portion being provided with co-operating means for adjustably sustaining the upright, and means for securing said portion in locking position.

1,470,458. ANIMAL POKE. GEORGE H. LOCKERT, Elmwood, Okla. Filed Dec. 28, 1922. Serial No. 609,420. 1 Claim. (Cl. 119—141.)



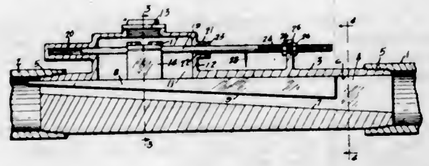
An animal poke comprising a main frame formed of a single length of wire and comprising upper and lower bands and front and rear stays, the latter consisting of portions of the wire which are twisted together, the front stay having its upper portion bent forwardly to provide a hook and having lateral eyes into which the extremities of the wire are looped, and the upper and lower bands having oppositely disposed side eyes, side stays looped into the eyes of the upper and lower bands, lower side hooks looped into the eyes of the lower band, and a sectional head strap having the sections engaging the eyes of the upper band.

1,470,459. PONTOON-SUPPORTED DERRICK. CHARLES L. LONSINGER, Walhonding, Ohio. Filed Aug. 22, 1922. Serial No. 583,547. 2 Claims. (Cl. 114—0.5.)



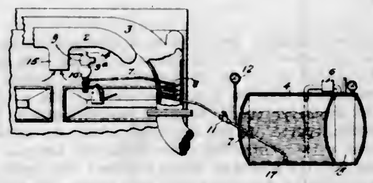
1. The combination with a well derrick, of means for supporting said derrick on water, said means comprising a base, said base being formed from spaced pontoons in parallel relation to each other, said pontoons having their upper sides flat and their under sides convexed, transversely disposed yokes connecting said pontoons together, said yokes comprising bars engaging the upper flat sides of the pontoons, segmentally shaped members arching the undersides of the pontoons, the ends of said segmentally shaped members being detachably connected to the bars adjacent the sides of the pontoons.

1,470,460. ADJUSTABLE-FLOW NIPPLE. DAVID G. LORRAINE, Los Angeles, and WILLARD L. BOROUGH, Fullerton, Calif. Filed Jan. 4, 1921. Serial No. 435,012. 7 Claims. (Cl. 251—25.)



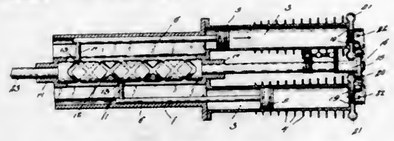
7. A flow nipple having a tapering bore and a longitudinally adjustable tapering regulating member received therein, said nipple having a transverse opening and a casing extending outwardly from the same, a block in said casing adjustable lengthwise of the nipple, an operating rod extending through the casing, and means for connecting said rod to said block and the latter to said regulating member, said casing having an opening for access to said connecting means.

1,470,461. MEANS FOR VAPORIZING LIQUID FUEL. JAMES M. MACLEAN, Vancouver, British Columbia, Canada. Filed Jan. 5, 1921. Serial No. 435,261. 13 Claims. (Cl. 48—102.)



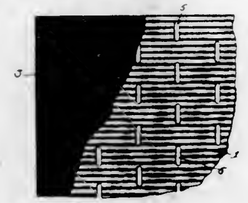
6. Means for vaporizing a liquid fuel for delivery to an internal combustion engine, said means comprising an expansion chamber from which air is normally excluded, one end of which chamber is in communication with the intake of the engine, and means for delivering heated liquid fuel through a restricted aperture into the other end of the expansion chamber.

1,470,462. ENGINE. LEONARD LEE MAIDEN, Detroit, Mich. Filed May 17, 1920. Serial No. 381,882. 2 Claims. (Cl. 121—119.)



1. An engine of the class described comprising a casing, a plurality of engine cylinders connected with one end of the casing and arranged in a circle around the center of the same, a spirally grooved cylinder in said casing, said casing having outwardly extending wings, each wing having a passage and a guideway therein, a piston in each engine cylinder, a piston rod connected with each piston and extending into the guideway, a pin on each rod extending through the passage and engaging the groove in the cylinder and means for controlling the valves in the engine cylinders by the rotation of said grooved cylinder.

1,470,463. DRAINAGE PLATE FOR FILTERS. FRED W. MANNING, Chicago, Ill. Filed June 7, 1920. Serial No. 387,016. 5 Claims. (Cl. 210—195.)



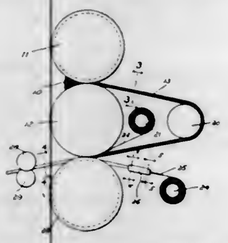
1. In a filtering device, a filter-supporting metal plate longitudinally corrugated to provide longitudinal drainage channels and provided with transverse slots in said corrugations establishing communication between adjacent channels, the corrugations being of straight-sided V-shaped sectional form.

1,470,464. TABULATOR FOR TYPEWRITERS. JACOB SIIM MARCUSSEN, Copenhagen, Denmark. Filed Dec. 24, 1921. Serial No. 524,641. 6 Claims. (Cl. 197—176.)



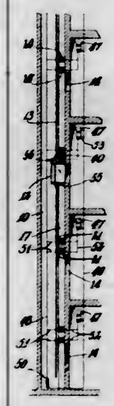
1. In a typewriter, the combination with a carriage bed over which a carriage is adapted to travel, letter-feed mechanism and carriage release mechanism; of a tabulating key lever mounted on said carriage bed; a sub-lever pivotally mounted on said bed and operated directly by said tabulating key lever; means carried by said sub-lever for directly operating said carriage release mechanism; stops mounted to move with the carriage; and a stop slidably mounted on said carriage bed and movable directly by said sub-lever into the path of travel of the carriage stops and concomitantly with release of the carriage.

1,470,465. MANUFACTURE OF BEAD FILLERS. MELVON A. MARQUETTE, Chicopee Falls, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Jan. 27, 1921. Serial No. 440,278. 13 Claims. (Cl. 154—9.)



1. An intermediate product in the manufacture of clincher bead fillers consisting of a plurality of substantially parallel bead fillers held in position one to another by their outer fabric covering.

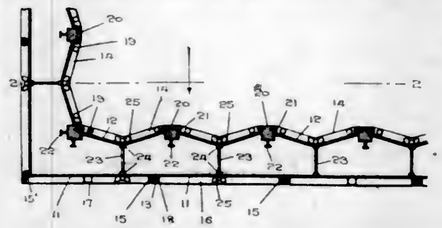
1,470,466. DUMB-WAITER SIGNAL. WLODZIMIERZ MISIAK, New York, N. Y. Filed Feb. 21, 1921. Serial No. 446,658. 5 Claims. (Cl. 177—336.)



5. In a dumb waiter, a shaft, a car in said shaft, a track in said shaft, groups of contact strips on said track, each group comprising a central strip and a pair of side strips, a signal carried by said car, a series of fixed signals, and means carried by the car whereby a circuit may be closed either through said side strips and the car signal, or through the centre strip and a corresponding fixed signal, said means comprising a forked arm one branch of which carries a single roller, and the other branch a pair of insulated rollers, a pivoted post on which said arm is mounted, and a slotted link device for adjustably positioning said arm with respect to said post, and a spring pressing said post toward the said track.

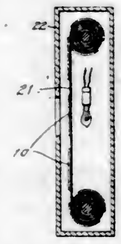
1,470,467. CONCRETE-BUILDING FORM. OLEY G. NICHOLAS, Los Angeles, Calif. Filed Jan. 20, 1923. Serial No. 613,911. 3 Claims. (Cl. 25—131.)

1. A concrete building form comprising sections at opposite sides, the sections at one side having edges spaced apart, bars between said edges having portions to be embedded in the concrete, tie rods extending through the sections at the opposite sides and having seats against which said sections bear, and means on the terminals of said rods for clamping said sections against said seats, the sections at said side being of angular cross section with their angles extending toward the



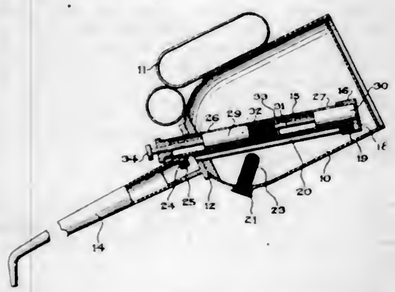
sections at the opposite side, and said rods being located at the angles of the firstnamed sections between said bars.

1,470,468. APPARATUS FOR SIMULATING MOVING PICTURES. CARL E. NOVILLE, New York, N. Y. Filed June 21, 1919, Serial No. 305,724. Renewed Mar. 9, 1923. 3 Claims. (Cl. 88—16.)



2. An article of manufacture comprising a translucent support, an image in color on one surface, a background of the same color on the opposite surface, and an image of a different color on the background.

1,470,469. OIL CAN. INGEBRET NYBAKKEN, Minot, N. Dak. Filed June 30, 1922. Serial No. 571,901. 3 Claims. (Cl. 221—51.)



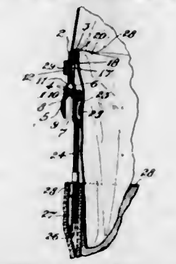
1. In combination, an oil can, a discharge spout, a cylinder arranged within the can and having inlet openings at spaced points in its length, a tube establishing communication between the lower end of the cylinder and the discharge spout, a valve controlling said communication, spaced pistons operating within the cylinder, a second valve controlling communication between the cylinder and the discharge spout adjacent the upper end of the cylinder, a rod connecting said pistons, and means for reciprocating said pistons within the cylinder as a unit, to force the oil from said cylinder to the discharge spout, said pistons controlling the admittance of oil to the cylinder through the adjacent opening.

1,470,470. SCALE GUARD AND MARKER. ARIE JAN PAS, Jeannette, Pa. Filed Mar. 7, 1922. Serial No. 541,706. 2 Claims. (Cl. 33—189.)



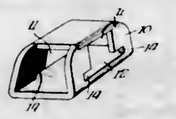
1. As an article of manufacture, a scale guard comprising a strip of spring metal bent to form a substantially tubular body portion, a pair of diverging integral leg portions formed integral with and extending downwardly from said body portion, convex gripping faces formed on each of said legs, one of said legs being provided with an upturned lower end having an aperture therein and a slot above the gripping face of said leg and alined with said aperture, said slot and said aperture cooperating to form a guideway, a marker pin reciprocably mounted in said guideway, a vertical plunger mounted in the body portion of said guard, a link pivotally connected to the lower end of said plunger and the upper end of said marker pin, and a coil spring engaging said plunger and said body portion adapted to normally hold said plunger and marker in retracted position.

1,470,471. CLASP. FREDERICK PETERS, Newark, and WILLIAM THIEDGE, Elizabeth, N. J. Filed Jan. 18, 1923. Serial No. 613,441. 10 Claims. (Cl. 24—253.)



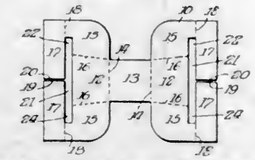
9. A clasp comprising an upper clamping member and a lower clamping member, a means of pivotal connection between said clamping members, a spring for normally forcing said clamping members in clamping engagement, finger-pieces connected with and extending from said clamping members for separating said clamping members, said upper clamping member being provided with an opening, and a yieldable spring-member connected with said lower clamping member and extending upwardly into the opening in said upper clamping member into frictional contact with one of the marginal edge portions bounding the opening in said upper clamping member.

1,470,472. BRAKE SHOE. CLIFTON D. PETTIS, New York, N. Y. Filed Sept. 2, 1922. Serial No. 585,900. 7 Claims. (Cl. 188—247.)



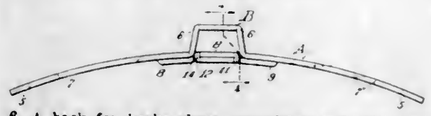
5. A brake shoe comprising a reinforcing back, an attaching lug of tough ductile metal tubular in form and provided with alined keyway apertures in the tubular walls and alined slots in said walls, and a body cast on said back, said lug being attached to said back by the insertion of the back endwise into said slots and held in position thereon by the cast metal body.

1,470,473. BRAKE SHOE. CLIFTON D. PETTIS, New York, N. Y. Filed Sept. 2, 1922. Serial No. 585,901. 7 Claims. (Cl. 188—247.)



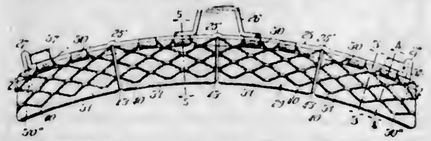
5. In a brake shoe, the combination with a reinforcing back, of an attaching lug including a substantially U-shaped body portion having wings formed on the side edges of the upstanding walls thereof and bent outwardly to substantially a right angle to said walls, said wings being provided at their outer end portions with attaching members embracing said back.

1,470,474. BACK FOR BRAKE SHOES. CLIFTON D. PETTIS, New York, N. Y. Filed Sept. 2, 1922. Serial No. 585,902. 6 Claims. (Cl. 188—258.)



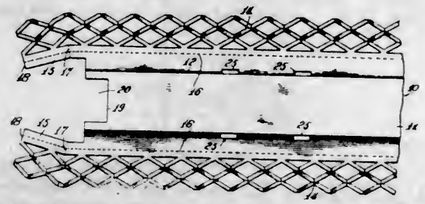
6. A back for brake shoes comprising a ductile metal plate adapted to extend lengthwise of the shoe and having formed integral therewith a central attaching lug, said back being provided with a long anchoring slot at each side of said attaching lug, and tongues produced from the metal cut away to form said anchoring slots, said tongues being reversely bent beneath the attaching lug and said tongues being formed with notches and provided with lugs to engage said notches when the tongues are overlapped.

1,470,475. BRAKE SHOE. CLIFTON D. PETTIS, New York, N. Y. Filed Sept. 2, 1922. Serial No. 585,903. 12 Claims. (Cl. 188—254.)



5. A brake shoe comprising a ductile metal reinforcing back and a plurality of cast metal body sections having individual reinforcing shells embedded therein and attached to said back.

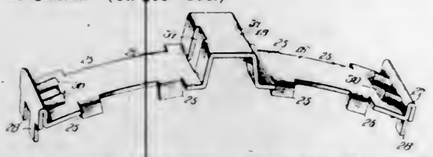
1,470,476. BRAKE SHOE. CLIFTON D. PETTIS, New York, N. Y. Filed Sept. 2, 1922. Serial No. 585,904. 18 Claims. (Cl. 188—254.)



8. In a brake shoe, a pan shaped reinforcing shell comprising a plate of ductile metal having a relatively thick

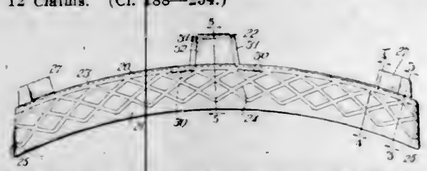
central portion and relatively thin side portions, portions of said side portions being bent to form the side and end walls of said shell.

1,470,477. BRAKE SHOE. CLIFTON D. PETTIS, New York, N. Y. Filed Sept. 2, 1922. Serial No. 585,905. 11 Claims. (Cl. 188—258.)



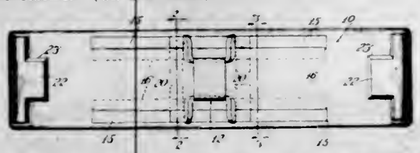
5. A brake shoe comprising a slotted shell, a back plate attached to the top wall of said shell by means of lugs on said plate projecting through corresponding slots in said shell, a key lug attached to said plate and said shell, and a body cast on said shell.

1,470,478. BRAKE SHOE. CLIFTON D. PETTIS, New York, N. Y. Filed Sept. 2, 1922. Serial No. 585,906. 12 Claims. (Cl. 188—254.)



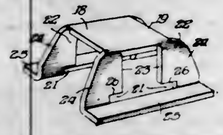
5. A brake shoe, comprising a pan-shaped shell stamped from sheet metal and having the side and end walls thereof joined at the corners and reticulated below the bent over junction of these walls with the top wall of the shell and the reticulations extending about said corners, a key lug attached to said shell, and a body cast on said shell.

1,470,479. BRAKE SHOE. CLIFTON D. PETTIS, New York, N. Y. Filed Sept. 2, 1922. Serial No. 585,907. 4 Claims. (Cl. 188—258.)



4. In a brake shoe, a reinforcing back slitted on both sides of the center line of the back and the metal bent to provide a pair of substantially parallel stiffening ribs extending longitudinally of the shoe, and a key lug having attaching members projecting through said back in the slots produced therein by the forming of said ribs and bent beneath the corresponding ribs to secure said lug to said back.

1,470,480. BRAKE SHOE. CLIFTON D. PETTIS, New York, N. Y. Filed Sept. 2, 1922. Serial No. 585,899. 6 Claims. (Cl. 188—247.)



5. In a brake shoe, the combination with a reinforcing back, of an attaching lug of ductile metal including a top plate extending transversely of said back and provided at each side with a pair of spreading legs spaced apart to form a keyway aperture therebetween and having their lower extremities connected, the inner edges of the legs being oppositely notched to form alined slots through which said back passes.

1,470,481. HOOK. GEORGE POPPS, Massena, N. Y. Filed Apr. 19, 1923. Serial No. 633,170. 3 Claims. (Cl. 230—5.)



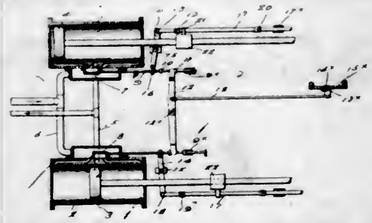
1. In a hook of the type described, a relatively wide and long flat body having a chain receiving eye at one end, the bottom face of the body having a longitudinal groove therein defining spaced side bars and a bifurcated bill caried by the outer end of the body.

1,470,482. FISHING TOOL FOR OIL WELLS. THOMAS RATCLIFFE, Wagoner, Okla. Filed Mar. 22, 1922. Serial No. 545,808. 2 Claims. (Cl. 294—99.)



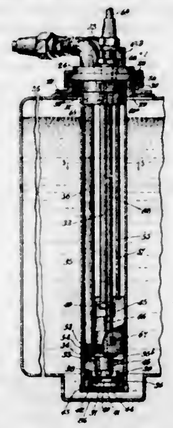
1. A fishing tool comprising a stem, a plurality of grabs carried by and depending from the lower end of the stem, a compressing sleeve slidably fitted upon the stem above the grabs, and adapted to encircle the grabs, means mounted upon the grabs for normally supporting said sleeve in an inoperative position, and means connected with the grabs for releasing said sleeve-supporting means.

1,470,483. REVERSE-VALVE MECHANISM. FRANK RIESNER, Oriska, N. Dak. Filed July 26, 1921. Serial No. 487,631. 1 Claim. (Cl. 121—164.)



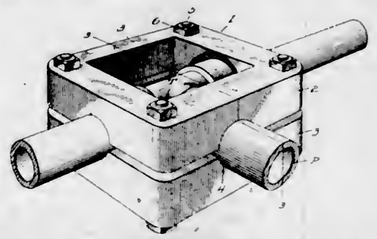
Reverse valve mechanism for hydraulic motors comprising piston cylinders, pistons movable therein and having rods on which are tappet projections, valve casings associated with the cylinders, a fluid supply conduit connected with the valve casings, an exhaust conduit connected with the exhaust ports of the cylinders, slide valves operable in the casings and having stems on which are spaced collars, levers connected with said stems, means supporting the levers, means to actuate said levers and reciprocate the valves, a lever fulcrumed at an intermediate point of its length and having its end portions arranged between the collars on the stems to cooperate with said collars, and manual means to move said lever to reverse motors.

1,470,484. PRESSURE-FEED SYSTEM FOR INTERNAL-COMBUSTION ENGINES. EDWARD A. ROCKWELL, Kew Gardens, N. Y., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Jan. 11, 1923, Serial No. 611,948. Renewed Sept. 11, 1923. 20 Claims. (Cl. 158—36.)



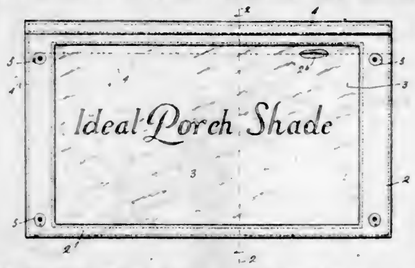
12. A fuel feeding apparatus for an internal combustion engine having in combination with an engine carburetor having a shut-off valve, a primary chamber adapted to be supplied with fuel from a reservoir, means for applying gas pressure directly to the liquid therein independent of the liquid level therein and a secondary container connected therewith and maintained under greater than atmospheric pressure and said secondary container being connected directly to the engine carburetor.

1,470,485. COUPLING CLAMP. GUS DE ROUEN, Eldorado, Ark. Filed Dec. 17, 1921. Serial No. 523,111. 2 Claims. (Cl. 285—100.)



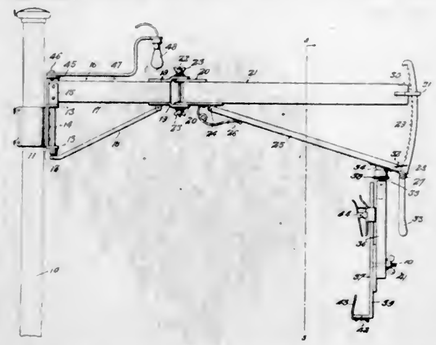
1. A clamp of the class described, comprising a pair of like rectangular frames, like pipe-engaging seats through three of the four sides of the frames, said seats flaring toward the inner faces of the walls of the frames, a T-pipe coupling fitted to the three seats, and gaskets surrounding the shanks of the T-coupling and clamped by the flaring seats.

1,470,486. ADVERTISING-CARD HOLDER. ZACHARY EARL RUSSELL, Sauk Rapids, Minn. Filed July 18, 1921. Serial No. 485,544. 6 Claims. (Cl. 40—125.)



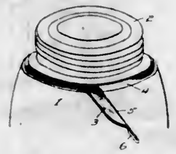
3. An advertising device comprising a flexible envelope of general rectangular form adapted to receive an advertising card having a flexible transparent face, and means at each end thereof for securing the same to the curtain holding means of an automobile.

1,470,487. BOOKSTAND ATTACHMENT FOR BEDS. LEO CHAVIANO SANCHEZ, Cumanayagua, Cuba. Filed June 23, 1922. Serial No. 570,316. 2 Claims. (Cl. 45—82.)



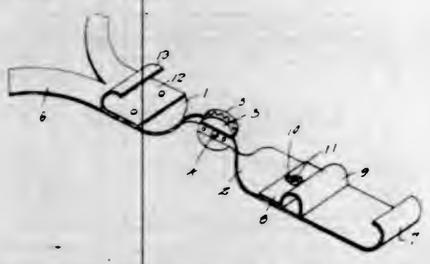
2. A book support comprising a pivotally mounted horizontally swinging sectional arm having its sections hingedly connected together, a vertically movable arm having one end pivotally secured to the horizontally swinging arm beneath the latter, a spring pressed rack bar pivotally secured to the vertically movable arm, means carried by the horizontally swinging arm for engagement by the rack bar, a guide for the free end of the rack bar, a hanger adjustably secured to the vertically movable arm and means for holding a book in position upon the hanger.

1,470,488. FRUIT-JAR-SEALING-RING OPENER. WENDELL M. SAUNDERS, Reading, and LLOYD V. ROY, Beverly, Mass. Filed Aug. 7, 1922. Serial No. 580,223. 1 Claim. (Cl. 215—37.)



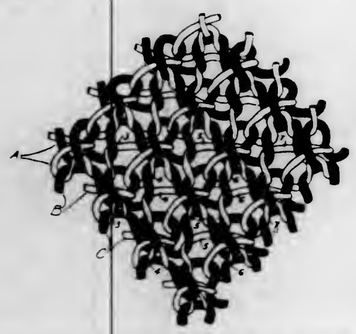
A fruit jar sealing device comprising a flat sealing ring of compressible material with an inextensible tearing strip vulcanized to the sealing ring along its inner edge and traversing the ring to its outer edge, and beyond the latter formed into a finger hold.

1,470,489. LADDER CLAMP. JOHN J. SCHUH, Altoona, Pa. Filed Sept. 6, 1921. Serial No. 498,613. 3 Claims. (Cl. 228—21.)



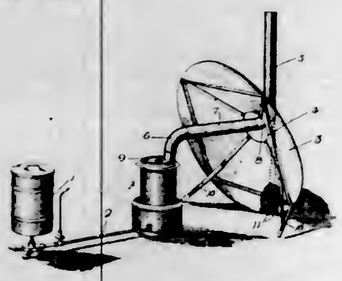
2. A ladder clamp comprising a pair of complemental members pivoted together and adjustable to vary the angle therebetween to conform to the double slope of a gable roof, and each of said members carrying a hook for securing a ladder thereto.

1,470,490. METHOD OR PROCESS FOR PRODUCING KNIT FABRICS. NATHAN SCHWARTZ, Newark, N. J. Filed Sept. 25, 1919. Serial No. 326,285. 5 Claims. (Cl. 66—4.)



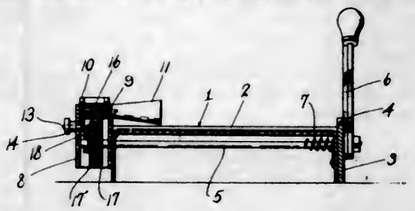
1. That improved method or process of knitting which consists in forming plain courses and interlocking courses, the interlocking courses being formed by spreading, interlocking and skipping loops alternately in succeeding interlocking courses.

1,470,491. BROODER. HENRY M. SHEER, Quincy, Ill. Filed Nov. 18, 1922. Serial No. 601,925. 5 Claims. (Cl. 119—32.)



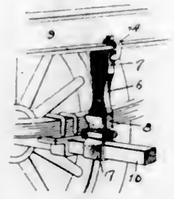
1. The combination of a stove or burner, a goose-neck stove-pipe, and a canopy having a hole of sufficient size through which the pipe extends to admit of the canopy being tilted to one side without disturbing the pipe.

1,470,492. CUTTER. PETER R. SHIRK and FREMONT W. SHIRK, Ephrata, Pa. Filed Mar. 19, 1921. Serial No. 453,558. 4 Claims. (Cl. 131—39.)



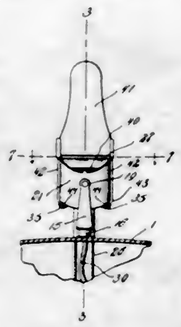
3. An apparatus of the class described comprising a casing, a shaft journaled therein and having a part projecting from one end of the casing, a knife connected with said projecting end, spring means connected with the shaft for holding the knife in raised position, a thimble at the other end of the casing, gearing connecting the thimble with the shaft, ratchet mechanism associated with the gearing for actuating the thimble on the cutting movement of the knife but permitting the spindle to remain idle when the spring returns the knife to normal position.

1,470,493. SNUBBER. JOHN D. SHOW, New York, N. Y. Filed Oct. 12, 1922. Serial No. 594,049. 4 Claims. (Cl. 267—63.)



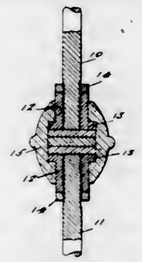
1. A snubber comprising a solid block of resilient material adapted to be connected in tension between the body and running gear of a vehicle, and having at its opposite ends means for securing the same to appropriate vehicle parts, said ends having embedded therein multiple fabric plies spaced apart and extending in spaced relation from the ends of the block toward its resilient mid area, and serving to take the strain of the attaching means.

1,470,494. DIRECTION INDICATOR. ALBERT G. SLATER, Miles City, Mont. Filed Sept. 26, 1921. Serial No. 503,230. 1 Claim. (Cl. 116—48.)



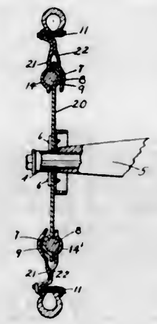
A device of the character described comprising a yoke removably secured to an automobile, a lamp carrying casing journalled on the arms of the yoke and having an outer concaved face, a reflector in the casing, a cross sectionally rounded lens closing the open face of the casing and having a central transparent portion and end translucent portions, a blade slidably mounted on the casing and projecting centrally from the lens, a shaft journalled below the hood and having an operating end received through the dash of the automobile, means between the shaft and lamp casing for causing the turning of the casing from a vertical to lateral positions when the shaft is turned, and spring means latching the shaft against turning when the casing and blade are in either vertical or lateral positions.

1,470,495. SWITCHMAN'S ROD. STANLEY SOSNOSKEY, Phoenixville, Pa. Filed June 2, 1922, Serial No. 565,475. Renewed Mar. 8, 1923. 2 Claims. (Cl. 246—489.)



1. A switchman's rod comprising spaced sleeve-like members, each of said members being closed at one end, said members being disposed in spaced axial relation, a rod section fitted in each sleeve-like member, a lock nut associated with each rod section and a casing of insulated material connecting said sleeve-like members as for the purpose specified.

1,470,496. VEHICLE WHEEL. ERNEST VICTOR STONE, Taft, Calif. Filed Aug. 19, 1922. Serial No. 582,980. 3 Claims. (Cl. 152—28.)



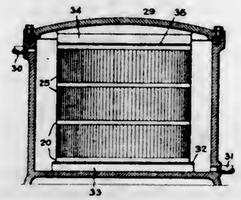
1. A resilient wheel consisting of a central section mounted on a hub and having around its margin a circle of pockets which are alternately formed on opposite sides of the central section, a rim structure having inwardly extending spaced flanges between which the marginal portion of the central section is received and plays, said flanges each having inwardly facing pockets to register with contiguous pockets in the central section, and deformable ball cushions compressed between the registered pockets of said flanges and said section.

1,470,497. DIAPHRAGM FOR ELASTIC-FLUID TURBINES AND METHOD OF MAKING SAME. CHRISTIAN STEENSTRUP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 30, 1918, Serial No. 256,363. Renewed July 20, 1923. 26 Claims. (Cl. 253—78.)



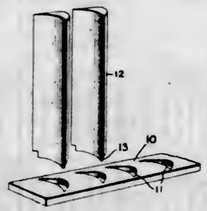
21. A self-contained element for a turbine structure comprising a stack of thin sheets fastened together by fusion of metal to form a rigid, unitary structure.

1,470,498. ELASTIC FLUID TURBINE ROTOR AND METHOD OF MAKING SAME. CHRISTIAN STEENSTRUP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 16, 1920. Serial No. 359,078. 13 Claims. (Cl. 29—23.5.)



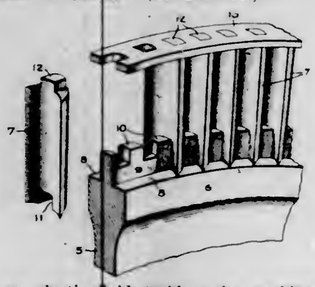
1. A blade ring comprising a plurality of spaced annular rings and blades located between them and united thereto by a metal having a lower melting point than that of the rings and blades, said rings and blades having engaging parts which serve initially to hold the blade ring as a whole assembled.

1,470,499. ELASTIC-FLUID TURBINE. CHRISTIAN STEENSTRUP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 27, 1920. Serial No. 377,101. 15 Claims. (Cl. 29—23.5.)



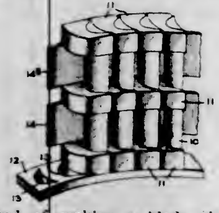
1. The method of manufacturing a turbine rotor which comprises taking a continuous strip of material, initially fastening buckets thereon in a temporary manner, winding a length of said strip with the buckets thereon around a carrying-member, and permanently uniting said buckets, strip and member by fusion of metal.

1,470,500. ELASTIC-FLUID TURBINE. CHRISTIAN STEENSTRUP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 27, 1920. Serial No. 377,102. Renewed July 20, 1923. 7 Claims. (Cl. 253—77.)



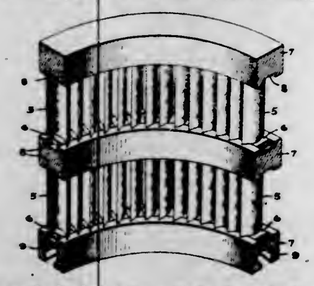
1. In an elastic fluid turbine, the combination of a bucket carrying member having a flat peripheral surface, an annular rib extending around said surface and provided with spacing blocks, and buckets located between said blocks, said buckets having notches which receive the rib.

1,470,501. METHOD OF MAKING BLADE RINGS FOR ELASTIC-FLUID TURBINES. CHRISTIAN STEENSTRUP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 3, 1920. Serial No. 393,930. 12 Claims. (Cl. 29—23.5.)



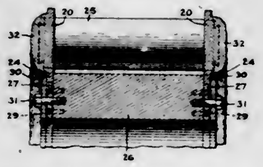
4. The method of making a blade ring which comprises taking lengths of blading substantially equal to the total length of the completed blade ring and spacing blocks, building up a ring of blades with rows of spacing blocks at the two ends of the blades and at one or more intermediate points, placing a collapsible sleeve around the built-up structure to press the structure together, welding the structure together in an initial manner, and then removing it from the sleeve and permanently uniting the structure by fusion of metal.

1,470,502. METHOD OF MAKING BLADE RINGS FOR ELASTIC-FLUID TURBINES. CHRISTIAN STEENSTRUP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 3, 1920. Serial No. 393,931. 7 Claims. (Cl. 29—23.5.)



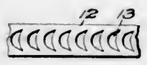
1. The method of making a blade ring which comprises taking rings having continuous grooves in their surfaces and blades having integral spacing blocks at their two ends, mounting the blades between the rings with the spacing blocks in said grooves to build up a complete blade ring structure, and uniting the structure by fusion of metal.

1,470,503. METHOD OF MAKING BLADE RINGS. CHRISTIAN STEENSTRUP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 3, 1920. Serial No. 393,934. 12 Claims. (Cl. 29—23.5.)



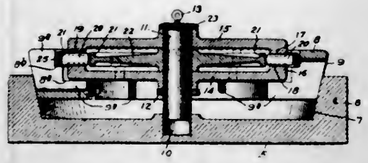
1. The method of making a blade member which comprises assembling rows of spacing blocks on a holder with blades between the blocks, building up metal at the ends of the blades by welding to fasten the blades and blocks together, and then removing the blade member from the holder and finishing the ends.

1,470,504. BUCKET WHEEL AND METHOD OF MAKING SAME. CHRISTIAN STEENSTRUP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 9, 1920. Serial No. 429,565. 21 Claims. (Cl. 29—23.5.)



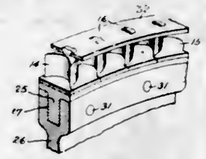
1. The method of making bucket wheels, which comprises winding successive layers of strip material having spaced openings therein about a disk so the openings in successive layers coincide, inserting the bases of buckets in the openings, and fastening the disk, layers and bucket bases together.

1,470,505. ELASTIC-FLUID TURBINE. CHRISTIAN STEENSTRUP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 3, 1921. Serial No. 434,417. 5 Claims. (Cl. 29—23.5.)



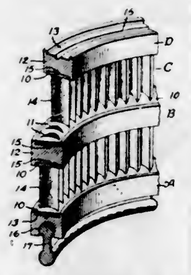
5. The method of manufacturing a turbine wheel which comprises mounting a wheel between holders which project beyond the periphery of the wheel and have spaced notches for the reception of the edges of buckets, assembling a ring of buckets in said notches with their inner ends in proximity to the periphery of the wheel, placing a heated bucket cover around the outer ends of the buckets, squeezing said bucket cover into engagement with the bucket ends and permitting it to cool so as to grip the buckets between the periphery of the wheel and the cover, and then uniting the ends of the buckets to the priphery of the wheel and to the bucket cover by fusion of metal.

1,470,506. METHOD OF MANUFACTURING TURBINE ELEMENTS. CHRISTIAN STEENSTRUP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 23, 1921. Serial No. 524,398. 9 Claims. (Cl. 29—23.5.)



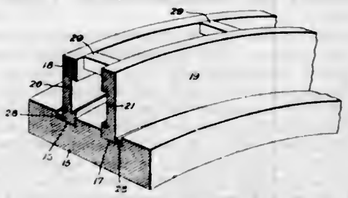
9. In the manufacture of a turbine rotor, the method of fastening a bucket cover member in position which comprises taking a bucket cover member having spaced holes therein, placing it over the ends of the buckets with the holes in line therewith, flowing metal into the holes to fasten the cover to the ends in an initial manner, and then permanently uniting the cover and bucket ends by fusion of metal.

1,470,507. METHOD OF MAKING ROTOR ELEMENTS FOR ELASTIC-FLUID TURBINES. CHRISTIAN STEENSTRUP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 16, 1921. Serial No. 445,572. 1 Claim. (Cl. 29—23.5.)



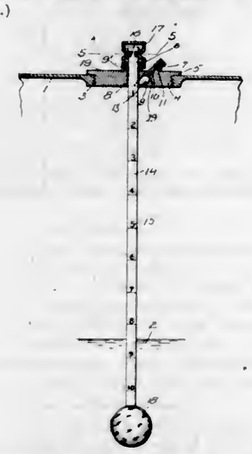
The method of manufacturing a turbine rotor element in which the exit edges of the buckets are of greater length than the inlet edges which comprises taking a plurality of wedge-shaped rings having annular grooves in their sloping surfaces, fastening mounting rings in said grooves, said mounting rings having spaced openings, assembling blades between the wedge-shaped rings with their ends in said openings, and uniting the rings and blades by fusion of metal.

1,470,508. METHOD OF MANUFACTURING TURBINE ELEMENTS. CHRISTIAN STEENSTRUP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 23, 1921. Serial No. 524,397. 10 Claims. (Cl. 29—23.5.)



7. The method of manufacturing a turbine part which comprises taking a holding member, mounting two supporting members thereon in spaced relation to each other, with one edge of each supporting member fixed to the holding member and the other edge free, said supporting members being provided with grooves in their closed surfaces, holding the free edges of the supporting members so they are spaced apart more than the fixed edges, assembling fluid directing elements between the supporting members, with their ends in said grooves and with spacing members in the grooves between the ends, releasing the free edges of the supporting members so the free edges may spring together to tightly grip the fluid directing elements, and then uniting the assembled structure by fusion of metals.

1,470,509. COMBINED PRESSURE CAP AND GAUGE DEVICE. LEO G. STRANSKY, Pukwana, S. Dak. Filed Aug. 5, 1922. Serial No. 579,910. 7 Claims. (Cl. 150—50.1.)



1. In a device for the purpose set forth, a closure cap element for a gasoline tank provided with means to permit of the supplying of pressure to and confining it in the gasoline tank, said means including a valvular element, and a gauge extending through the cap element for retaining said valvular element therein.

1,470,510. BELT CONNECTER. EDWIN TAYLOR, Edwardsville, Kans. Filed Mar. 19, 1923. Serial No. 626,077. 1 Claim. (Cl. 24—33.)

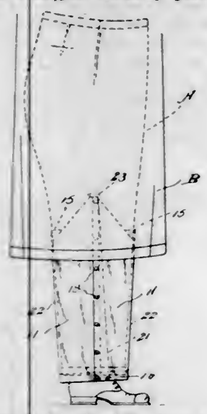


A belt connecter comprising plates adapted to be secured to the ends of the belt to be connected and having their opposed edges bent inwardly to form hook-like bearings, closed links engaged with said bearings to flexibly connect the plates, and a shield for closing and protecting the hooks.

1,470,511. TROUSERS PROTECTOR. PETER TOPFNER, Detroit, Mich. Filed Dec. 12, 1921. Serial No. 521,748. 1 Claim. (Cl. 2—135.)

A protector of the character described comprising a sheet of flexible material provided at its free edges with inter-engaging snap-fastener elements and provided at its lower portion with a hem, the upper portion of the sheet being formed with a spaced cut-away V-shaped portions within which are located gussets, the sheet of material being formed with spaced permanent creases extending from the lower point of the V-shaped cut-away portions to and throughout the hem, and securing members carried by the sheet at the highest points of the cut-away por-

tions and adapted for penetrating engagement with trouser legs, the V-shaped cut-away portions being dis-

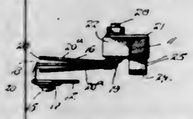


posed at the front and back of the knee so as to permit free knee movement without causing dislocation of the protector.

1,470,512. CONDENSING LENS. MARIUS E. TROMBA, Brooklyn, N. Y. Filed Jan. 15, 1921. Serial No. 437,627. 2 Claims. (Cl. 88—57.)

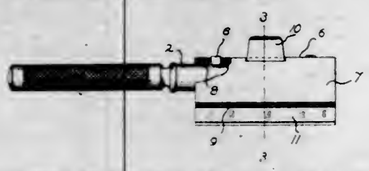
1. A lens for projection apparatus, said lens being formed of colored glass, the coloring matter of the lens being of such a character to substantially cut off all the ultra-violet radiations without causing a massing of the color of said lens at any point in the projected light.

1,470,513. PICKER-STICK CHECK MOTION. CHARLES N. TUCKER, New Bedford, Mass., assignor to Hopedale Manufacturing Company, Milford, Mass., a Corporation of Massachusetts. Filed Mar. 7, 1921. Serial No. 450,176. 11 Claims. (Cl. 139—164.)



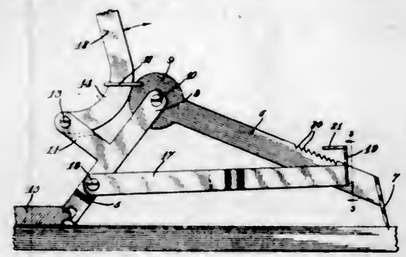
11. A picker stick check for looms having, in combination, cooperating members, one being elastic and yielding and adapted to enter the other which is rigid and unyielding to act as a check on the picker staff.

1,470,514. RAZOR-BLADE SHARPENER. ERNEST VOGES, San Antonio, Tex. Filed Oct. 7, 1922. Serial No. 593,017. 1 Claim. (Cl. 30—25.)



In a device for holding safety razor blades for the stropping thereof, a head having a body portion which is elliptical in cross section and which is provided with a longitudinal slot to receive a safety razor blade therein, a compressible sheet surrounding the head and projecting beyond the slotted edge thereof, a spring metal member having a cross sectionally rounded body portion disposed over the sheet, said spring member having its sides directed toward each other to provide jaws, means removably connecting the head to the jaw carrying member, plates on the inner sides of the jaws having central tongues projecting through openings in the body of the jaws, a handle removably connected to the head.

1,470,515. FLOOR JACK. RUFLEY E. WATTS, Trenton, Mo., assignor of one-half to Geo. H. Hubbell, Trenton, Mo. Filed Jan. 20, 1923. Serial No. 613,953. 2 Claims. (Cl. 254—17.)



2. A jack including opposed members, one of said members having a bifurcated extremity, the opposite member having a head positioned between the furcations of the bifurcated end, a lever having a curved portion contacting with the head to move the members away from each other, and means for restricting movement of the members towards each other.

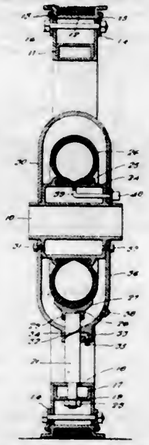
1,470,516. ARTIFICIAL PLANT. JENNIE MARIE WEYANDT and MARY TAPARELLA, Cleveland, Ohio. Filed Aug. 3, 1922. Serial No. 579,513. 4 Claims. (Cl. 41—13.)



1. As a new article of manufacture, an artificial plant having portions thereof composed of a foraminated metallic body, and an ornamental covering on all faces of said body.

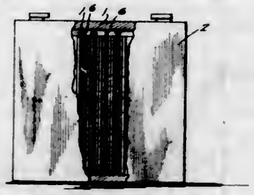
1,470,517. WHEEL. OTTO EVERETT WILSON, Peru, Ind. Filed Mar. 7, 1921. Serial No. 450,211. 1 Claim. (Cl. 152—42.)

A resilient wheel of the character described comprising a hub, a hollow annular extension channel shaped in cross section surrounding the hub, spaced annular associated flanges projecting from one wall of the extension, a pneumatic tire carrying in the flanges a metallic casing surrounding the tire and having its side walls secured to the side walls of the extension, one side wall of the casing being detachable, a right angled bent conveying tube partially arranged between walls of the extension and having one end communicating with the tire and its opposite end passing through one side wall of the extension and the detachable wall of the casing respectively, annularly spaced guides formed in the casing, spokes provided with lubricating grooves passing through the guides, lubricating cups formed on the guides and adapted to communicate with the grooves, a channel shaped member secured to the felly of the wheel, said



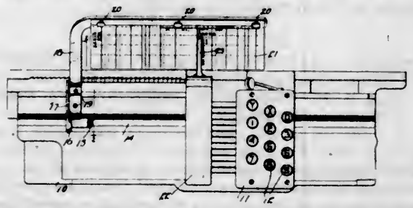
spokes having reduced outer ends secured to the channel shaped member and a shoe carried by the inner end of the spokes and being designed to engage the tire as and for the purpose specified.

1,470,518. BATTERY SEPARATOR. HAROLD A. YARNELL, Escondido, Calif. Filed Apr. 28, 1921. Serial No. 465,075. 15 Claims. (Cl. 204—29.)



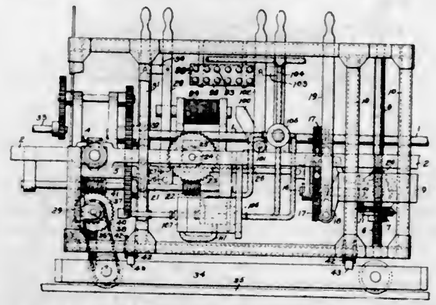
9. A separator comprising plates having a plurality of transversely spaced slots forming strips between the same, the plates being assembled with said strips of the respective plates laterally offset relative to one another, and one of said plates having margins beyond said slots adapted to be folded over the margins of the other plate in assembling the same, said strips having medial ribs with the ribs of one plate facing the ribs of the other plate and received in the spaces between the strips of the second plate, said strips also having transverse corrugations at the sides of said ribs.

1,470,519. INDICATOR FOR PUNCHING MACHINES. WILLIAM W. ADAMS, Washington, D. C. Filed Apr. 25, 1922. Serial No. 556,421. 5 Claims. (Cl. 164—112.)



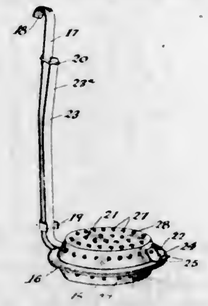
1. The combination of a card punching machine, means for punching a card and means to move the card relative to said punching means, means extending away from the machine for supporting a duplicate card, means for moving the duplicate card in step with said card to be punched said duplicate card being wholly in view of the operator at all times and a pointer to indicate on the duplicate card, the position of the other card relative to the punching means, substantially as set forth.

1,470,520. MINING MACHINE. GEORGE R. BENNETT, Pittsburgh, Pa. Filed Apr. 21, 1919. Serial No. 291,482. 14 Claims. (Cl. 262—6.)



1. In a mining machine, the combination of a cylinder, a plurality of hammers having portions extending into said cylinder and adapted to be forced outwardly by fluid pressure within the cylinder, and means for shifting said hammers against the pressure of the fluid.

1,470,521. POTATO-FRYING DEVICE. THOMAS E. COMBEST, Van Nuys, Calif. Filed Aug. 19, 1922. Serial No. 582,896. 4 Claims. (Cl. 53—7.)



4. A frying device comprising a bottom pan section, an extension formed on the section, spaced lugs formed on the extension, a keeper pivoted on the extension, a cover pan section, a pivotal connection between the pan sections, and an extension formed on the cover pan section and adapted to be interposed between the lugs to be engaged by said keeper, the free end of the second extension being bent so that when engaged by said keeper the extension will be held under stress.

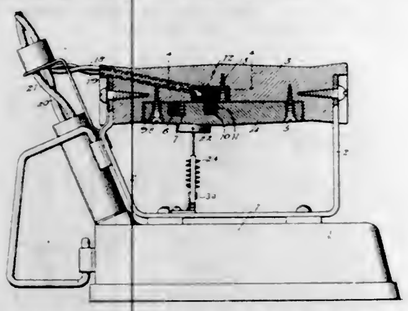
1,470,522. ADVERTISING SIGN. DAVID W. COYLE, Pasadena, Calif. Filed Apr. 15, 1922. Serial No. 552,831. 2 Claims. (Cl. 40—125.)



1. In a sign board, permanent supporting posts, pivot bolts axially arranged in said supporting posts, upper

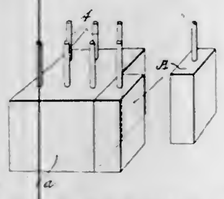
and lower rail members mounted upon said bolts and between said posts and adapted to be rotated thereon, and a panel member adapted to be interlocked with the rail members and secured thereby in upright position when said bolts are tightened up.

1,470,523. SWITCH FOR ELECTRIC IRONS. HERBERT BENVIE, Meriden, Conn. Filed Mar. 25, 1922. Serial No. 546,660. 4 Claims. (Cl. 219—25.)



1. An electric iron construction which includes a sectional handle portion, one of said sections movably associated with another section, switch members mounted on said sections and adapted to be engaged when the sections are held together by the hand of the operator, and means for supporting the one section against the other without the aid of the operator's hand.

1,470,524. PROCESS OF MAKING FROZEN CONFECTIONS. HARRY B. BURT, Youngstown, Ohio. Filed Jan. 30, 1922. Serial No. 532,811. 7 Claims. (Cl. 107—54.)



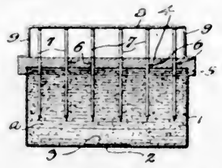
1. The process of making a frozen confection which consists in bringing a handle member in contact with a body of edible substance which is fluid at normal temperatures and subjecting the body to refrigeration whereby it is solidified and thereby attached to the handle by congelation.

5. The process of making a frozen confection which consists in bringing a handle member in contact with a body of edible substance which is fluid at normal temperatures, subjecting the body to refrigeration whereby it is solidified and thereby attached to the handle by congelation, and applying a protective outer coating of a material which is hard at normal temperatures to the frozen body portion while it is supported by the handle member.

7. The process of making a frozen confection which consists in taking a body of frozen edible material which is fluid at normal temperatures, applying a protective covering of edible granules to the exterior of the frozen body, and subsequently chilling the body to bring about a firm attachment of the granules thereto by congelation.

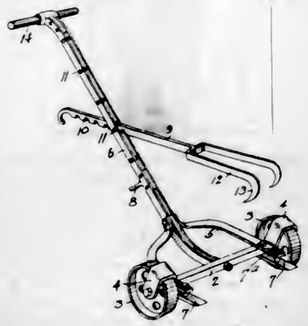
1,470,525. APPARATUS FOR MAKING FROZEN CONFECTIONS. HARRY B. BURT, Youngstown, Ohio. Filed Jan. 31, 1922. Serial No. 533,082. 5 Claims. (Cl. 107—81.)

1. A device for making frozen confections, including an open ended container with closed bottom and sides and adapted to receive a mass of an edible substance which is soft or liquid at normal temperatures, and a cover member fitted over the open end of the container and provided with means for positioning and supporting a handle member in engagement with the liquid edible substance and maintaining it in such position while the latter is subjected to refrigeration and frozen into a substantially solid body.



5. A device for making frozen confections, including an open ended container having closed bottom and side walls and adapted to receive a unitary mass of an edible substance which is in a soft or liquid condition at normal temperatures, a cover member fitted upon the open end of the container and formed with a plurality of openings adapted to receive handle members and support them in engagement with the edible substance while the latter is subjected to refrigeration and frozen into a solid body, the openings being arranged in rows, positioning means for holding the cover member in proper position upon the container, and a removable gauge bar adapted to be successively applied to the handle members of each row to force all of the handle members a uniform distance into the container.

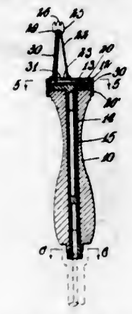
1,470,526. TRUCK. CHARLES W. CADE, Bellevue, Pa., assignor to McKinney Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 2, 1920. Serial No. 386,083. 1 Claim. (Cl. 214—65.4.)



In a truck for handling carboys, the combination of an axle, wheels mounted thereon, a shaft connected to said axle, fork-arms connected to said shaft, toe-pieces connected to said axle, and to the projecting ends of said fork-arms, and a forked grappling hook mounted on said shaft, adapted to enclose the neck of the bottle, and engage the front face of the carboy.

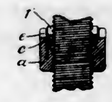
1,470,527. HAIR-GROWTH-REMOVING IMPLEMENT FOR NOSTRILS AND EARS. JAMES P. CAREY, New York, N. Y. Filed Feb. 27, 1922. Serial No. 539,384. 7 Claims. (Cl. 30—1.)

1. A device of the class described comprising a supporting body, a hollow diminished extension therefrom, a fixed blade and an oscillatory blade carried on the outer end of said extension, and an arm extending from said oscillatory blade through said extension for oscillating said blade, and a member carried by said supporting body for oscillating said arm, said member comprising a disk having an eccentric groove in its face engaged by said arm, and a guide element in the inner end of said



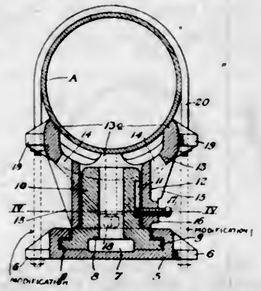
extension for said arm, said guide element comprising a disk having a slot therein extending radially with respect to said first disk.

1,470,528. LOCK SCREW. AUGUSTE FLENTJEN, Geneva, Switzerland. Filed Apr. 15, 1922. Serial No. 553,085. 2 Claims. (Cl. 151—19.)



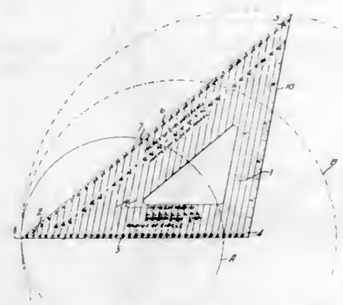
1. A lock-screw comprising a lock-nut having a conical outer portion adapted to be introduced into a conical recess of a main nut, the conicity of the lock-nut being different from that of the conical recess of the said main nut and the cone of the lock nut and of the main nut diverging towards the respective outer end of said nuts, the main nut and the lock-nut having a cylindrical portion, the diameter of the cylindrical portion of the lock-nut being appreciably smaller than the diameter of the cylindrical portion of the main nut, the lock-nut being adapted to first of all bear with that part of its conical portion against the conical recess of the main nut which is of the smallest diameter, the lock-nut being longitudinally slit and having partial slots in the conical and cylindrical portion.

1,470,529. PIPE SUPPORT AND ANCHOR. DWIGHT GERBER, Pittsburgh, Pa., assignor to National Valve & Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 28, 1921. Serial No. 481,001. 9 Claims. (Cl. 137—75.)



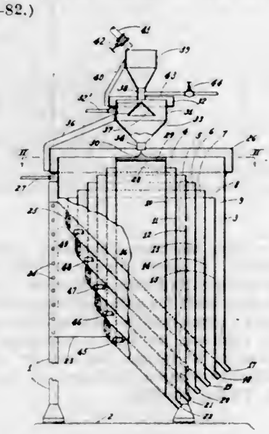
1. A pipe support comprising a base member, and a pipe engaging member slidably and rotatably carried on said base arranged to be encased in heat insulating material with a pipe and move with the pipe which it supports.

1,470,530. MEASURING TRIANGLE. CHARLES HOHMANN, Jersey City, N. J. Filed Dec. 8, 1921. Serial No. 521,027. 3 Claims. (Cl. 33—104.)



1. A measuring device which comprises an isosceles triangle for use in plotting circles, the equal angles of the triangle being substantially 39°, said triangle being provided with spaced lines parallel to a side opposite one of the equal angles and cutting the other two sides to form graduations along the longer side and numbered to designate the lengths of the circumference of various circles to which the device may be applied, said parallel lines being numbered progressively to designate the length of the radii of circles, said parallel lines being also numerically designated to represent the length of a side of a square the area of which is equal to the area of a circle defined by the graduations on the triangle and to which the device has been applied.

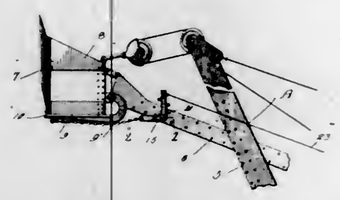
1,470,531. APPARATUS FOR CLASSIFYING GRANULAR MATERIALS. MARTIN HOKANSON, Duluth, Minn. Filed May 10, 1922. Serial No. 559,727. 8 Claims. (Cl. 83—82.)



1. An apparatus for grading granular material according to the size and specific gravities of the particles composing the same, comprising a tank which is constantly filled with water, means for admitting water to the tank to produce a radially flowing stream of progressively decreasing velocity towards its periphery, means for feeding material at the center of the tank, means for laterally deflecting the material towards the said periphery through the water contained therein, the space between the feeding means and the periphery of the tank being unobstructed and free of deflecting parts whereby to permit a substantially horizontal flow therebetween, and a plurality of collecting compartments posi-

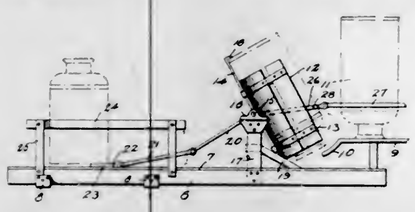
tioned below the said feeding means and disposed at varying distances therefrom, the tops of said compartments terminating below the level of the water maintained in the said tank.

1,470,532. STEAM-SHOVEL ATTACHMENT. THOMAS S. HUSHER, Boston, Mass. Filed Feb. 2, 1923. Serial No. 616,571. 3 Claims. (Cl. 214—146.)



1. The combination with a steam shovel including a boom, a dipper arm slidably carried by the boom, a shovel connected with the dipper arm including a swinging bottom and a spring latch for said bottom, of a bell crank lever pivotally secured at its angle to the dipper arm, a pull chain connected with the outer end of one arm of the bell crank lever and to the spring latch, an operating cable secured to the outer end of the other arm of the bell crank lever, and stops formed on the opposite edges of one arm of the bell crank lever for engagement with the dipper arm to limit the swinging movement of said lever.

1,470,533. CAN-TURNING DEVICE FOR WASHING MACHINES. WALTER R. JOHNSTON, Vallejo, Calif. Filed Sept. 18, 1920. Serial No. 411,066. 5 Claims. (Cl. 214—1.)

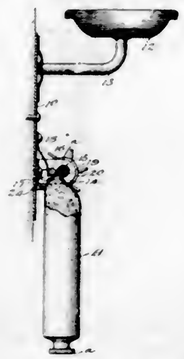


1. A can turning machine comprising a trackway, a delivery platform, a cradle supported upon said platform, a shaft co-operating with said cradle, a crank arm for actuating said shaft for swinging said cradle whereby a can delivered thereto will be swung from an inverted to an upright position, and means associated with said shaft and adapted to engage the can for moving the same longitudinally of said track-way as the cradle is swung to its original position.

1,470,534. TUBE SQUEEZER. STEPHEN J. KEIPER, New York, N. Y., assignor of one-half to Jacob Keiper, Staten Island, N. Y. Filed Apr. 15, 1922. Serial No. 552,846. 3 Claims. (Cl. 221—60.)

1. A tube squeezer including a pair of rollers, supporting means therefor presenting side arms, said means having slots for the ends of one of the rollers, one of said slots being L-shaped and enlarged at the L-arm thereof and through which one of the rollers may be axially removed, and the other slot being of straight form.

2. A tube squeezer including a pair of rollers, supporting means therefor presenting side arms, said means having slots for the ends of one of the rollers, one of said slots being L-shaped and enlarged at the L-arm thereof and through which one of the rollers may be axially removed, and the other slot being of straight



form; together with spring means secured to said supporting means above said side arms to press said last-mentioned roller toward the companion roller of the pair.

1,470,535. METHOD OF DECORATING LEATHER OR SIMILAR MATERIAL. FRED ANTHONY KOLB, Newark, N. J. Filed June 3, 1922. Serial No. 565,560. 4 Claims. (Cl. 41—26.)



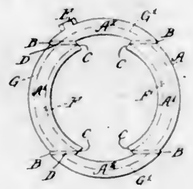
1. The method of producing ornamented leather sheets, comprising forming depressed ornamentations on a sheet of leather, coloring said depressed ornamentations, treating part of the sheet not depressed for producing a desired surface, and then causing the depressed portions to assume their former position.

1,470,536. CONTAINER HANDLE. ERNEST AUGUST LANGE, Claresholm, Alberta, Canada. Filed May 12, 1922. Serial No. 560,323. 9 Claims. (Cl. 220—94.)



1. As an article of manufacture, a handle for containers, comprising a longitudinal body made in a single piece and having attaching elements intermediately of the ends for engaging openings in a container, and cooperating fastening portions at the opposite ends of the body for detachably securing the ends of the body one to the other.

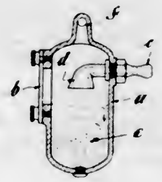
1,470,537. METHOD OF MAKING METALLIC RINGS AND PACKING-RING BLANK. RALPH A. LIGHT and JOSEPH W. PRICE, Jr., Philadelphia, Pa., assignors to The United States Metallic Packing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 608,462. 3 Claims. (Cl. 29—156.6.)



1. The method of making metallic packing rings which consists in casting a ring with two opposite annular sectors adapted to be formed into the packing block sections of a packing ring and with two opposite annular sectors of greater diameter and each adapted to be formed into the guide block section of a packing ring, and dividing said ring into packing and guide sections by parallel saw cuts.

3. A metallic packing ring blank cast with two opposite sectors adapted to be formed into the packing block section of a packing ring and two opposite sectors of greater diameter adapted to be formed into the guide-block sections of a ring, said sectors being so disposed relatively to each other that the ring will be divided into packing and guide block sections by two parallel saw cuts.

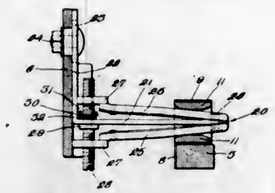
1,470,538. SKIRT MARKER. WILLIAM MILLER, Manchester, England. Filed July 25, 1921. Serial No. 487,571. 2 Claims. (Cl. 33—9.)



1. Apparatus for marking textile material comprising, in combination, a reservoir for the marking material provided with an opening for charging purposes, a removable closure for said opening, an air inlet leading to a depending dome arranged above the marking material, an air outlet for the mixed air and marking material arranged at the top of the reservoir, a flexible conduit leading from said reservoir outlet to a nozzle, a nozzle having a slot or perforations therein and having a rearward extension slidably mounted on a pillar, a pillar having a base to constitute a stand upon which the nozzle is mounted so as to be capable of vertical adjustment thereon, and upon which the reservoir is carried together with means to supply compressed air to the reservoir, substantially as described.

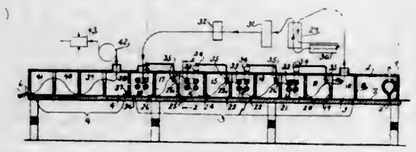
1,470,539. PICKER-STICK CHECK FOR LOOMS. JONAS NORTHROP, Hopedale, Mass., assignor to Hopedale Manufacturing Company, Milford, Mass., a Corporation of Massachusetts. Filed Aug. 16, 1921. Serial No. 492,732. 7 Claims. (Cl. 133—164.)

1. A picker stick check for looms having, in combination, male and female members, the one adapted to be secured to the picker stick staff, and the other to the lay, one of the members being provided with means



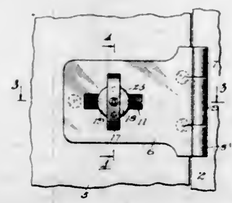
for adjustment of its size, so as to determine the position of stopping of the picker staff and shuttle.

1,470,540. COATING MACHINE. ZENO OSTENBERG, San Jose, Calif., assignor to The Caltex Company, San Jose, Calif., a Corporation of California. Filed Aug. 31, 1921. Serial No. 497,307. 8 Claims. (Cl. 34—48.)



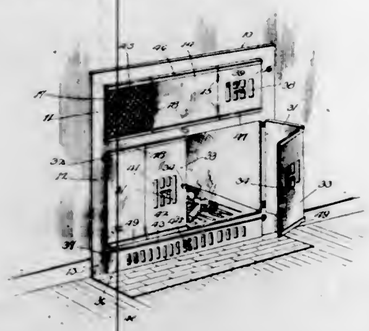
2. A coating machine including a drying chamber provided with openings for permitting the passage of a strip of coated material therethrough; baffle plates arranged therein in close proximity to said material, to form a series of compartments, alternate plates having central openings formed in one edge thereof and the intermediate plates having openings formed in the ends of the opposite edge, heating units arranged in alternate compartments, and a thermostat arranged in each intermediate compartment and operatively connected to the controlling valve of the heating unit in an adjoining compartment.

1,470,541. DUMB-WAITER LOCK. JAMES EDWIN PHILLIPS, New York, N. Y. Filed Mar. 25, 1922. Serial No. 546,806. 6 Claims. (Cl. 292—285.)



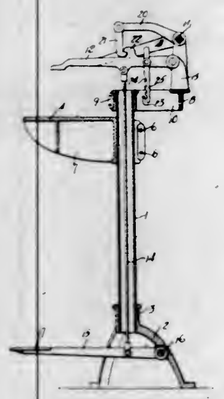
1. In a lock of the character described, a keeper plate adapted to be secured to a door, said keeper plate being provided with a boss extending from one face thereof, a locking plate hingedely secured to the jamb of said door, said locking plate being provided with an aperture for receiving said boss, and a slot extending therefrom, and a knob resiliently and movably mounted on said boss provided with a shoulder, said knob being movable to a position in line with said slot for permitting the locking plate to be moved away from the keeper plate and movable to a position with the shoulder overhanging the locking plate for locking together said locking plate and keeper plate.

1,470,542. FIREPLACE FRONT. MAY E. POLING, Phoenix, Ariz. Filed July 14, 1922. Serial No. 575,089. 4 Claims. (Cl. 126—140.)



1. An open fire place attachment comprising a frame constructed to fit into the fire place and having a fire box and an oven above the fire box, the back wall of the oven being spaced from the back wall of the fire place and the bottom of the oven forming the top of the forward portion of the fire box, the top of the fire box in rear of the oven communicating directly with the smoke flue of the fire place, a damper slidably mounted below the oven and adapted to close the top of the fire box in rear of the oven to cut off communication with the smoke flue, closures for the front of the oven and the fire box, and means on said closures for controlling circulation.

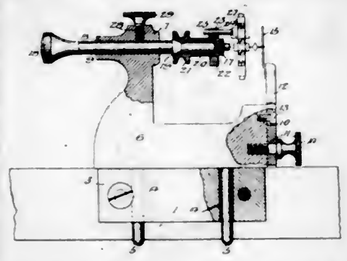
1,470,543. VALVE-SPRING-COMPRESSING MACHINE. GEORGE S. ROBERTS, Bend, Oreg. Filed Jan. 31, 1922. Serial No. 532,987. 13 Claims. (Cl. 29—33.)



2. In a machine of the class described, a platform, a plurality of pivotally mounted valve compressing arms adapted to cooperate with the platform to compress valve springs, pedal operated means for depressing the free ends of the arms, and means for locking the arms in depressed position.

11. In a machine of the class described, a platform, a hollow block supported on the platform and adjustable transversely thereof, a plurality of spring held punchers mounted in the block, a compressing arm adapted to selectively operate upon any of the punchers, and pedal operated means for depressing the arm.

1,470,544. PIVOT LATHE FOR WATCHMAKERS. DEAN KEYES ROBINSON, Baltimore, Md. Filed Aug. 5, 1922. Serial No. 579,859. 3 Claims. (Cl. 82—6.)



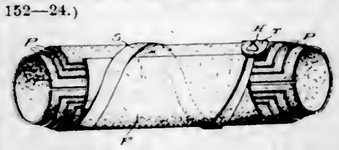
1. In a device of the character described, a frame, a pintle mounted on the frame for longitudinal adjustment and having one end thereof provided with work engaging means, a clamping screw for securing the pintle in adjusted position, a blade adjustably mounted on the frame and having a plurality of holes selectively cooperable with the work engaging means of the pintle for supporting the work for rotary movement while leaving the same accessible, and means mounted on the pintle for imparting rotary movement to the work.

1,470,545. REAMER. AARON T. ROSSIGNOL, Washington, D. C., assignor, by mesne assignments, to J. Page Laughlin Holdings Company, Huntingdon, Pa., a Corporation of Pennsylvania. Filed Oct. 22, 1921. Serial No. 509,553. 11 Claims. (Cl. 77—76.)



1. A reamer comprising a hollow shank, permanent blades on the shank, removable blades interposed between said permanent blades, and means for interchangeably expanding the two sets of blades, substantially as set forth.

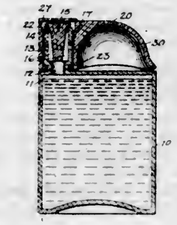
1,470,546. BLOW-OUT BOOT FOR PNEUMATIC TIRES. LORENZO DOWE SHILLING, Kalispell, Mont. Filed Oct. 23, 1922. Serial No. 596,326. 3 Claims. (Cl. 152—24.)



2. A protector or boot of the character described, comprising a patch, adapted to be positioned about the inner tube of a pneumatic tire, an extension sewed upon the outer surface of one of the ends of said patch and adapted to form a closure between the ends thereof when said patch is in position, and a strap having its one end secured to one end of the patch adjacent a corner thereof and adapted to be wrapped spirally about the patch and secured at its other end whereby to hold the patch against movement upon the inner tube to which the same is applied.

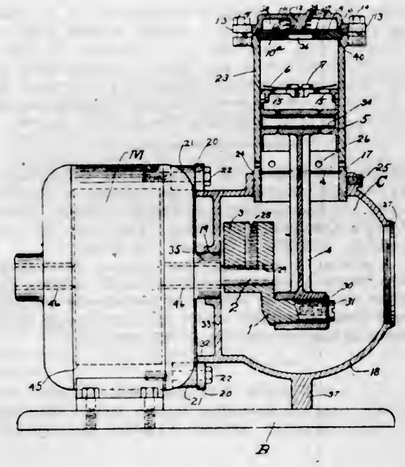
1,470,547. POCKET MEDICINE RECEPTACLE. HARRY A. SCHILLING, New York, N. Y. Filed Jan. 24, 1923. Serial No. 614,618. 1 Claim. (Cl. 215—57.)

In combination with a bottle having a neck formed with an annular channel and oppositely disposed longitudinal channels extending thereinto, a dose-measuring receptacle formed with an offset neck-receiving recess, integral oppositely disposed lugs projecting radially inwardly of said neck-receiving recess, said lugs being diametrically oppositely disposed and adapted to pass



through the oppositely disposed longitudinal channels into the annular channel and pass therethrough to locking position behind one of the walls of said annular channel to secure the dose-measuring receptacle in place on the bottle neck.

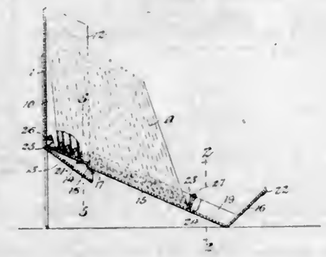
1,470,548. ELECTRIC MOTOR-DRIVEN COMPRESSOR. GREGORY JOHN SPOHRER, East Orange, N. J. Filed June 28, 1921. Serial No. 480,952. 17 Claims. (Cl. 230—27.)



1. In a device of the class described, the combination with an electric motor, of an air compressor having a casing fashioned to centralize with and provided with means to secure it to an end of the motor, a cylinder adjustably secured to and with one end open to the interior of said casing, the shaft of said motor projecting into said casing of the cylinder at right angles to the axis of said cylinder, a crank member on said shaft within said casing, a counter-balance on the shaft between the crank and the motor, and a piston within the cylinder and linked to said crank member.

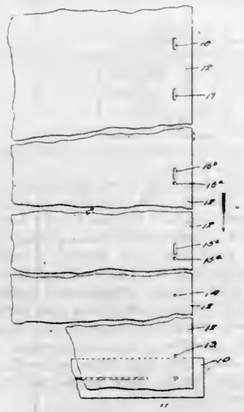
1,470,549. POCKET FILE CASE. HERMANN STEINMEYER, New York, N. Y. Filed Apr. 22, 1922. Serial No. 556,057. 5 Claims. (Cl. 129—16.)

1. A pocket file case comprising a body having an inclined lower wall and a cover pivoted thereto and adapted upon opening thereof to constitute an extension tray providing a continuation of the lower inclined wall of the



body for gravitationally effecting relative separation of the lower edges of the cards contained therein to facilitate the manipulation of the cards.

1,470,550. NOTE SHEET FOR AUTOMATIC MUSICAL INSTRUMENTS. HEINRICH BOCKISCH, deceased, late of Poughkeepsie, N. Y., by George W. Gittins, administrator, New York, N. Y., assignor to Welte-Mignon Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 21, 1920. Serial No. 375,577. 5 Claims. (Cl. 84—161.)

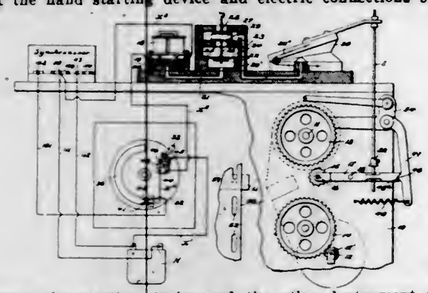


1. A note sheet having a line of perforations to control two mechanisms for the production of different musical effects, said line of perforations comprising perforations of one area to control the putting in operation of one of the mechanisms and perforations of the same area for putting out of operation the same mechanisms and perforations of different area to control the putting in and putting out of operation of both of the mechanisms.

1,470,551. STARTING DEVICE FOR SYNCHRONIZERS. HEINRICH BOCKISCH, deceased, late of Poughkeepsie, N. Y., by George W. Gittins, administrator, New York, N. Y., assignor to Welte-Mignon Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 21, 1920. Serial No. 375,579. 10 Claims. (Cl. 84—4.)

1. A means for synchronically starting the operation of two automatic instruments having a synchronizer, said means comprising a hand controlled starting device, a connection between the hand controlled starting device and

one of the instruments to start the same upon movement of the hand starting device and electric connections be-

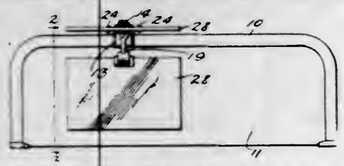


tween the starting device and the other instrument to start the same upon the same movement of the starting device.

1,470,552. CATALYST AND METHOD OF MAKING SAME. HORACE G. BYERS, Montclair, N. J., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Sept. 28, 1921. Serial No. 503,926. 3 Claims. (Cl. 23—28.)

1. A catalytic material consisting of sugar charcoal produced by the reaction of sugar with a concentrated acid and having a metal catalyst precipitated thereon.

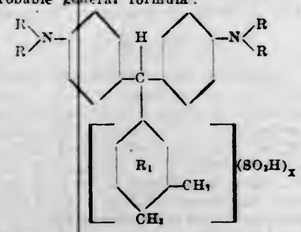
1,470,553. EYESHADE FOR WINDSHIELDS. WALTER F. CHURCH, Greeley, Colo.; Mary Muncy Church executrix of said Walter F. Church, deceased. Filed Sept. 14, 1922. Serial No. 588,152. 1 Claim. (Cl. 296—97.)



The combination with a windshield, of a clamp removably carried thereby and including a stem formed with a centrally apertured and flat head, said head having radial grooves in its opposite side faces, a disk disposed on each side of the head and each having a radial rib for engagement selectively in the grooves, each of the disks having an offset stem, translucent plates of different density carried by the said stems and movable therewith, a bolt disposed through the head and said disks and having heads on its opposite ends, and springs on the bolt between said heads and said disks, whereby one or both of the translucent plates may be swung into and out of operative position.

1,470,554. DYESTUFF PREPARED FROM ORTHOXYLYLALDEHYDE. AUGUSTUS EDWARD CRAVER, Buffalo, N. Y., assignor to The Barrett Company, a Corporation of New Jersey. Filed Oct. 30, 1922. Serial No. 598,021. 5 Claims. (Cl. 260—68.)

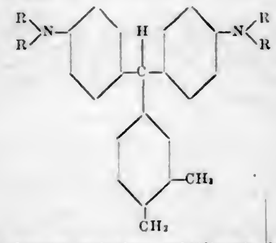
1. As new products, the dyestuffs derived, by oxidation and separation, from leuco compounds having the following probable general formula:



wherein R denotes univalent substituents in amino group which is attached to an aromatic nucleus, and wherein R_1 represents a benzene nucleus containing two methyl groups as substitutents in the meta and para positions respectively to the methane carbon atom and wherein X denotes a whole number whose numerical value is at least equal to one and not more than two, said leuco compounds being obtainable by condensing one mol of orthoxylylaldehyde sulfonic acid with two mols of N-substituted aromatic amines of the benzene series, and said dyestuffs dyeing unmordanted silk and wool, as well as other materials, blue to green shades.

1,470,555. DYESTUFF PREPARED FROM ORTHOXYLYLALDEHYDE. AUGUSTUS EDWARD CRAVER, Buffalo, N. Y., assignor to The Barrett Company, a Corporation of New Jersey. Filed Oct. 30, 1922. Serial No. 598,022. 5 Claims. (Cl. 260—68.)

1. As new products, the dyestuffs derived, by oxidation and separation, from leuco compounds having the probable general formula:

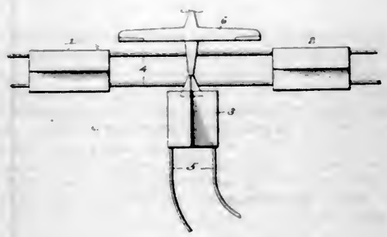


wherein R denotes univalent substituents in an amino group which is attached to a benzene nucleus, said leuco compounds being obtainable by condensing one mol of orthoxylylaldehyde with two mols of N-substituted aromatic amines of the benzene series, and said dyestuff dyeing mordanted cotton, mordanted and unmordanted silk and wool, and other materials, blue to green shades.

1,470,556. PROCESS OF BLEACHING CELLULOSIC MATERIAL. ELWOOD EBIE and GEORGE A. RICHTER, Berlin, N. H., assignors to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Nov. 17, 1921. Serial No. 515,899. 7 Claims. (Cl. 8—2.)

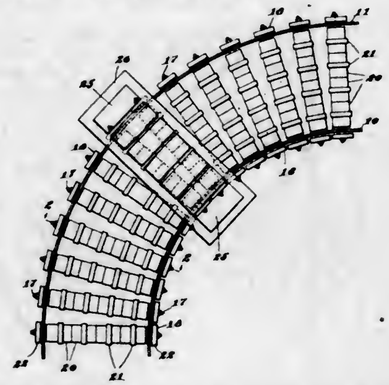
3. A process of super-bleaching bleached cellulosic material, which comprises subjecting said bleached material to the action of chlorine to increase the whiteness of said material without any substantial change in the strength or beating qualities of the material.

1,470,557. MOVABLE HANGAR FOR LARGE AIRCRAFT. IVAN I. EREMEEFF, Dayton, Ohio. Filed Sept. 14, 1921. Serial No. 500,559. 2 Claims. (Cl. 189—15.)



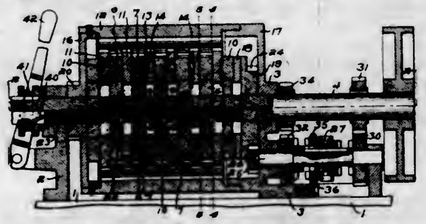
1. A hangar for aircraft comprising three sections, one of said sections being adapted to inclose the fuselage of said aircraft, and a section for each set of wings of said aircraft, all of said hangar sections being mounted on tracks, said sections being adapted to be moved into and out of position for inclosing said aircraft.

1,470,558. GRAVITY CONVEYER. CLAUD E. FULLER, New York, N. Y. Filed Nov. 8, 1921. Serial No. 513,687. 5 Claims. (Cl. 193—35.)



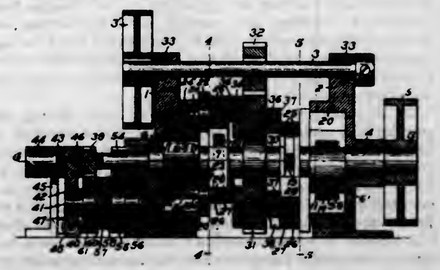
1. In a gravity conveyer, the combination of curved frame members spaced apart from each other, a plurality of radially disposed shafts mounted in said members, and rollers rotatably mounted on said shafts on either end thereof.

1,470,559. SPEED-VARYING MECHANISM. BICKNELL HALL, Taunton, Mass., assignor to Hall Co., Boston, Mass., a Corporation of Massachusetts. Filed Jan. 20, 1914. Serial No. 813,311. 62 Claims. (Cl. 74—35.)



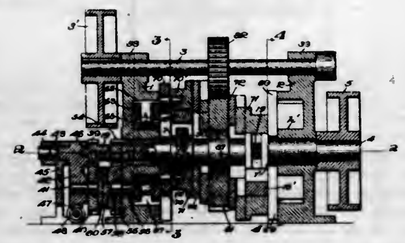
1. A speed-varying mechanism containing driving and driven elements continuously geared one to the other by means of a plurality of intermittently engageable gears, and means for imparting to said gears variable gyratory movements in variable paths about the axis of the driving element.

1,470,560. VARIABLE-SPEED MECHANISM. BICKNELL HALL, Abington, Mass., assignor to Hall Co., Boston, Mass., a Corporation of Massachusetts. Continuation of application Serial No. 157,248, filed Mar. 24, 1917. This application filed Sept. 29, 1917. Serial No. 194,012. 43 Claims. (Cl. 74—35.)



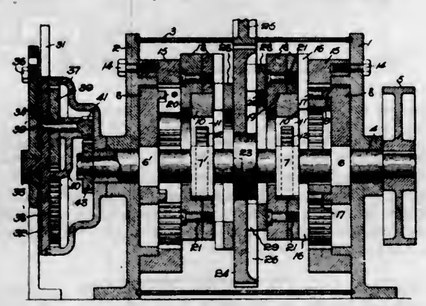
1. Speed varying mechanism comprising in combination, operatively connected driving and driven elements, said connections including one or more interposed rotatable and variably gyratory members connected with said driven element, means variably to gyrate said member or members, a plurality of cooperating segments provided with driving surfaces, said segments being operatively associated with said member or members and with the driving element, and one or more relatively stationary elements having a surface with which said segments are engageable to rotate said gyratory member or members while gyrating.

1,470,561. VARIABLE-SPEED MECHANISM. BICKNELL HALL, Abington, Mass., assignor to Hall Co., Boston, Mass., a Corporation of Massachusetts. Original application filed Sept. 29, 1917, Serial No. 194,012. Divided and this application filed Aug. 30, 1923. Serial No. 660,244. 10 Claims. (Cl. 74—34.)



1. Speed varying mechanism comprising in combination, a drive shaft, a normally stationary element surrounding the axis of said shaft, a gyratable and also rotatable member, means upon said shaft variably to gyrate said member, and a circumferential series of intermittently effective engaging members co-operating with said stationary element at any point circumferentially of the same and with said gyratable member whereby said member is forced to rotate about its own axis when caused to gyrate.

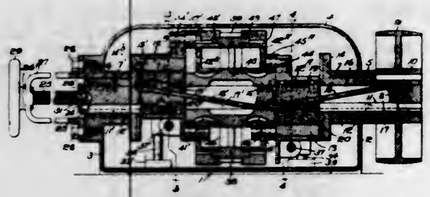
1,470,562. VARIABLE-SPEED MECHANISM. BICKNELL HALL, Abington, Mass., assignor to Hall Co., Boston, Mass., a Corporation of Massachusetts. Filed June 17, 1918. Serial No. 240,325. 26 Claims. (Cl. 74—35.)



1. Speed varying mechanism comprising in combination driving and driven elements, the former including a drive shaft, a series of toothed gear segments distributed about said shaft, gyratorially acting means upon said shaft and supporting said segments for angular movement about said shaft, said means being effective to vary the radial position of one or more of said segments with respect to

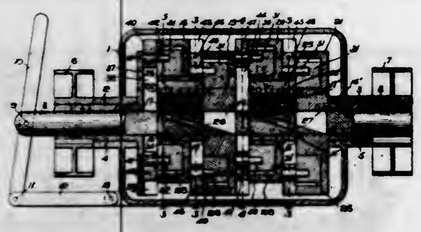
said drive shaft, a toothed gear surrounding the shaft and with which said segments are adapted to mesh, and driving connections between said segments and said driven element.

1,470,563. VARIABLE-SPEED MECHANISM. BICKNELL HALL, Taunton, Mass., assignor to Hall Co., Boston, Mass., a Corporation of Massachusetts. Filed May 21, 1913. Serial No. 768,998. 40 Claims. (Cl. 74—54.)



1. Variable speed mechanism comprising in combination a drive shaft, a member of variable eccentricity positioned thereon and moved thereby, a driven element concentric with said shaft and provided with worm gearing, a circumferential series of worms engaging said worm gearing and adapted when oscillated to rotate the same in one direction, and operating connections between said worms and said member of variable eccentricity whereby rotation of said shaft and attendant eccentric movement of said member causes oscillatory movements of said worms of a length dependent upon the eccentricity of said member.

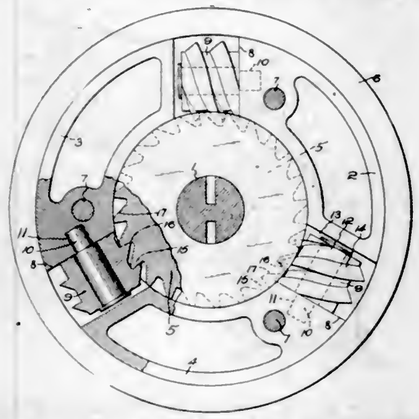
1,470,564. TRANSMISSION MECHANISM. BICKNELL HALL, Abington, Mass., assignor to Hall Co., Boston, Mass., a Corporation of Massachusetts. Filed Nov. 8, 1913, Serial No. 799,985. Renewed May 7, 1919. Serial No. 295,456. 26 Claims. (Cl. 74—35.)



1. Transmission mechanism comprising in combination, driving and driven elements, and a plurality of interposed rotary members operatively connected thereto, a shaft common to and supporting said members and upon which alternate members are eccentrically adjustable, each member being eccentric to and operatively connected to its immediate predecessor.

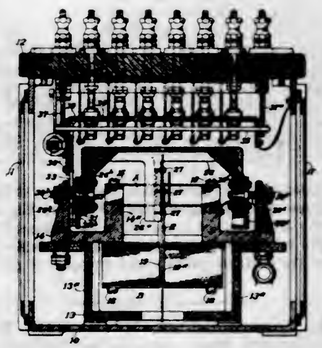
1,470,565. TRANSMISSION MECHANISM. BICKNELL HALL, Abington, Mass., assignor to Hall Co., Boston, Mass., a Corporation of Massachusetts. Continuation of application Serial No. 787,620, filed Sept. 2, 1913. This application filed Jan. 24, 1919. Serial No. 272,809. 17 Claims. (Cl. 74—14.)

1. Transmission mechanism comprising in combination a worm gear and a co-acting, constantly meshing, reciprocable driving worm having a continuous thread with differing or contrasting faces, of such pitch and inclination relative to the worm axis that the thrust of one of said



faces upon the worm gear is effective to drive said gear, and of the other of said faces to cause idle rotation of said worm.

1,470,566. ALTERNATING-CURRENT RELAY. WILLIAM D. HAILES, Albany, N. Y., assignor to Federal Signal Company, Albany, N. Y., a Corporation of New York. Filed Oct. 21, 1921. Serial No. 509,284. 20 Claims. (Cl. 200—91.)

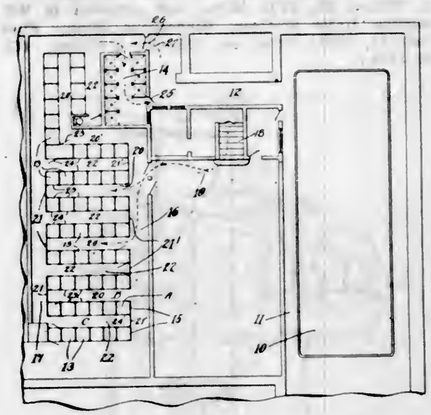


17. A relay comprising a movable member in the form of a closed conductor biased to one position, and electromagnetic means including two windings for exerting a force on said member in opposition to the biasing force when both windings are supplied with alternating currents of the same phase and for exerting a force on said member in the direction of said biasing force when either of said windings is supplied with alternating current and the other is not.

20. A relay comprising a magnetic core having two parallel legs each provided with an air gap, a winding for said core, a movable member having a closed ring-like conductor biased to a normal position wherein it substantially encircles one leg and movable in said air gaps to a position wherein one limb of the conductor approaches the geometrical center of the other leg, and means for creating current in said conductor; whereby when said conductor and said winding are both energized the conductor will be moved toward its second position by inductive reaction and when either the conductor or the winding is

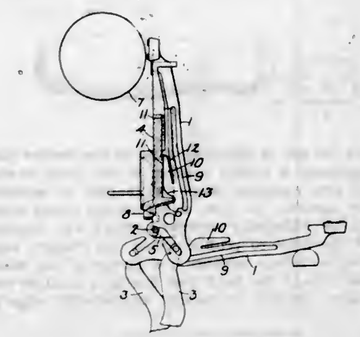
energized and the other is not the conductor will be urged to its biased position and positively held there by electromagnetic action.

1,470,567. SWIMMING-POOL LOCKER CONSTRUCTION. MATTHEW F. HASBROUCK, New York, N. Y. Filed May 8, 1920, Serial No. 379,831. Renewed Aug. 5, 1923. 2 Claims. (Cl. 20—1.1)



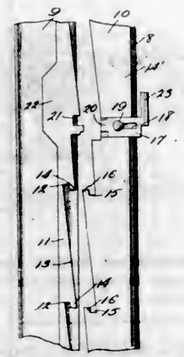
1. In swimming pool locker equipments, a plurality of parallel rows of lockers spaced from each other to provide passage-ways alternating with each row of lockers and a wall spanning each pair of rows to close the passage-way therebetween, one said spanning wall being disposed alternately at opposite ends of each pair of said rows of lockers and each of the lockers in a given row having a pair of doors, one opening into a passage-way to one side of the row and the other into the passage-way to the opposite side of the row.

1,470,568. TYPEWRITING MACHINE. WILLIAM F. HELMOND, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 21, 1921. Serial No. 516,607. 7 Claims. (Cl. 197—35.)



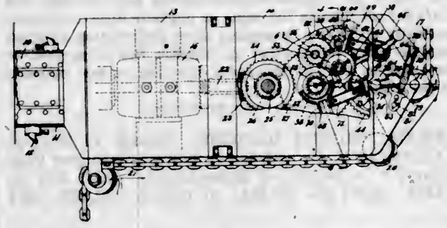
1. The combination with a platen, of a pivoted type-bar to print against said platen, a type-bar stop device, and a tongue integral with said type-bar to engage said stop device before the type touches the platen, said tongue joining the type-bar near its pivot portion and extending towards its type end.

1,470,569. DEMOUNTABLE RIM. JOHN O. HINERMAN, Aleppo, Pa. Filed Dec. 12, 1919. Serial No. 344,413. 1 Claim. (Cl. 152—21.)



A demountable rim comprising a body portion divided circumferentially to provide two parallel sections, a circular band fixedly secured to the underside of each section, recesses formed at intervals along the adjoining edges of the bands, one of said bands extending beyond the inner edge of the section to which it is attached and overlapping the adjacent section to provide a smooth joint between the sections when the recesses of the bands are interlocked, inclined guideways leading to the recesses to facilitate the interlocking of the recesses when the sections are rotated, and means slidable transversely of one of the circular bands for engagement with the circular band carried by the adjoining section for locking the two sections against independent movement.

1,470,570. MINING MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Mar. 28, 1918, Serial No. 225,342. Renewed Apr. 14, 1922. Serial No. 552,593. 49 Claims. (Cl. 262—30.)

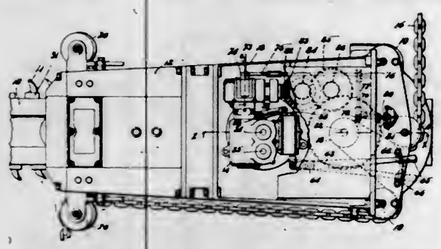


1. The combination with a mining machine, of feeding means therefor including a yielding mechanism, a controlling member for said mechanism operatively connected thereto, and means including a grasping handle for said controlling member carried thereby and movable with said member and relative thereto for facilitating the loading of said mechanism by multiplying the pressure exerted on said handle by an operator.

1,470,571. MINING MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Mar. 30, 1918, Serial No. 225,773. Renewed Apr. 14, 1922. Serial No. 552,594. 68 Claims. (Cl. 262—30.)

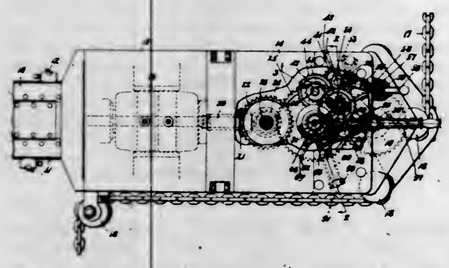
1. A mining machine slidable on a mine bottom comprising a machine frame, flexible feeding means including advance and receding portions extending in opposite directions from the opposite ends of said frame, and feed operating means for feeding said machine at different

speeds relative to said flexible feeding means including fast and slow feed mechanisms and friction devices hav-



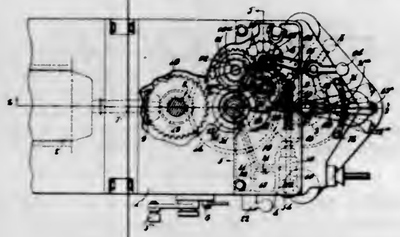
ing different predetermined loading limits and located respectively one only in the fast and one only in the slow feed mechanism.

1,470,572. MINING MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Mar. 30, 1918, Serial No. 225,774. Renewed Apr. 14, 1922. Serial No. 552,595. 30 Claims. (Cl. 262—301.)



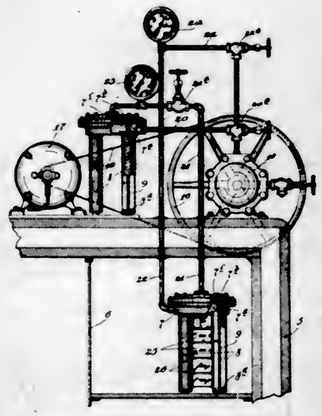
1. In a mining machine, a feeding mechanism including a transmission shaft, a transmission member thereon, and means for operatively connecting said member and shaft for rotation in the same or opposite directions automatically operating to connect them for rotation at equal angular rates irrespective of whether the connection be for rotation both in the same direction or one opposite to the other.

1,470,573. MINING MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed July 16, 1919. Serial No. 311,321. 37 Claims. (Cl. 262—30.)



10. A mining machine having feeding mechanism comprising, in combination, an actuator, a feeding member, power transmitting connections between said actuator and feeding member and including cooperating friction clutch members, hydraulically operated means for engaging said clutch members, and pressure generating means for applying hydraulic pressure to said hydraulically operated means, said pressure generating means having a plurality of yielding elements adapted respectively to limit said hydraulic pressure to different predetermined amounts.

1,470,574. MECHANICAL REFRIGERATOR. CARL JAEGER, Minneapolis, Minn., assignor of one-half to William T. Franklin, St. Paul, Minn., one-eighth to A. G. Walter, St. Paul, Minn., and one-tenth to Wilhelmina Marie Erickson, Minneapolis, Minn. Filed June 21, 1919. Serial No. 305,802. 5 Claims. (Cl. 62—116.)



1. A refrigerating device comprising a head having two chambers, relatively large tubes projecting from one of said chambers, relatively very small tubes extended from the other chambers through said relatively large tubes and terminating near the ends thereof, and ice pans detachably supported by and located between the said refrigerating tubes.

1,470,575. TIRE-REPAIRING TOOL. WINFRED R. KEPLER, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed May 31, 1919. Serial No. 300,928. 3 Claims. (Cl. 30—20.)

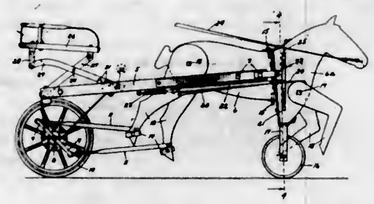


1. A tool for use in repairing tires or for similar purposes comprising, a handle portion, a tool head having a straight tire engaging edge terminating in rounded corners for clearing the tire, a flat double edged blade adapted to be adjustably secured between the rounded corners of the head to project below the straight edge thereof, and a bridge member for clamping the blade against one side of the head also having a straight tire engaging edge adapted to parallel the straight edge of the head.

1,470,576. VELOCIPEDE. FREDERICK W. LAMBIE, Minneapolis, Minn., assignor to Arthur M. Lambie, Chicago, Ill. Filed July 20, 1922. Serial No. 576,177. 2 Claims. (Cl. 208—42.)

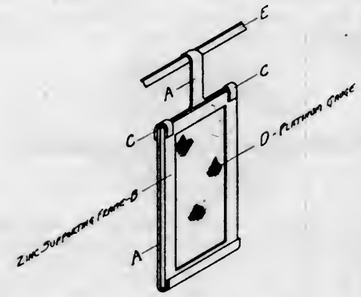
1. In a velocipede of the character described, an animal figure supported in the front end thereof, said figure

comprising front and rear sections, the former swinging on a pivot on the latter, a steering wheel supporting the



front section, brackets extending laterally out from the sides of the front section, and spring connections between the brackets and the rear part of the velocipede.

1,470,577. REENFORCED PLATINUM ANODE FOR PRODUCTION OF PERSALTS. OTTO LIEBKNECHT, Frankfort-on-the-Main, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y., a Corporation of New York. Filed Aug. 27, 1921. Serial No. 496,050. 2 Claims. (Cl. 204—4.)



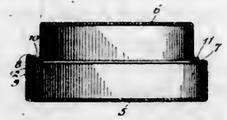
1. A platinum anode reinforced with metallic zinc.

1,470,578. COMBINED CURTAIN ROD AND SHADE BRACKET. LONNIE M. MOORE, Hopkinsville, Ky., assignor of one-half to C. Hewlett Jackson, Hopkinsville, Ky. Filed May 29, 1922. Serial No. 564,320. 6 Claims. (Cl. 156—23.)



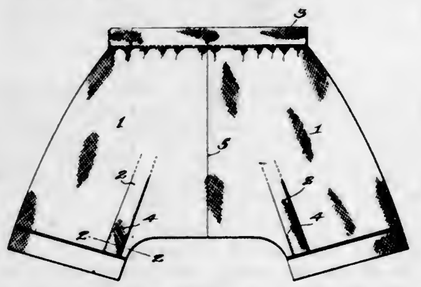
2. In a curtain fixture, the combination of a rod having a series of holes therethrough with a shade roller bracket, said bracket comprising a base plate slidably associated with said rod and having an intermediate upstruck transverse rib; a roller supporting element disposed on the lower end portion of said base plate, a resilient member secured for a portion of its length to the upper end portion of said base plate and in spaced relation to said base plate for the remaining portion of its length, said member straddling said rod and slidably associated with the outer face of said rod, the free end of said resilient member being bent to engage said upstruck rib and a pin on said resilient member to engage and be disengageable from the holes on said rod.

1,470,579. CONTAINER. JOHN ROHDIEK, New York, N. Y., assignor to Jacob Pfeiffer, New York, N. Y. Filed July 26, 1920. Serial No. 398,871. 1 Claim. (Cl. 220—4.)



A container comprising a pair of complementary sections, one of said sections having an inturned flange provided with tongues cut out therefrom at suitable intervals, said tongues being pressed upwardly from the plane of said flange and having their free under end portions offset downwardly from the upwardly pressed parts of the tongues, said free end portions having their upper surfaces slightly above the upper surface of said flange, said tongues being of resilient material, said tongues having longitudinal slots therein between the free ends and the pressed up portions, said slots being open at one end of the tongues, said other section having a relatively narrow flange adapted to rest upon the first mentioned flange and to be rotatable thereon, said last named flange having radially disposed lugs adapted to enter the slots in said tongues.

1,470,580. METHOD OF PRODUCING FULLNESS IN THE SEAT OF UNDERWEAR. DANA M. STEPHENS, Charlotte, N. C., assignor to Janet Garment Company, Charlotte, N. C., a Corporation. Filed Jan. 9, 1922. Serial No. 528,106. 1 Claim. (Cl. 2—122.)

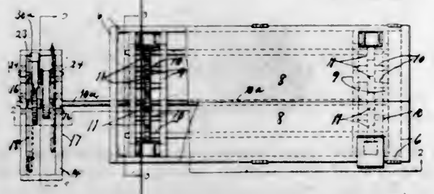


A bifurcated nether garment having a belt, integral seat and leg forming portions, which latter at the backs thereof are stitched throughout the extent of their upper ends to the belt and are connected by a vertical back seam, folded portions in the legs extending upwardly for a substantial distance from the lower ends of the legs and located on opposite sides of the back seam, and stitching affording anchors for the lower ends of the folded portions and terminating just above the level of the crotch, the folded portions being formed to effect increased fullness of the seat upon the wearer assuming a sitting or stooping position and extending into the seat.

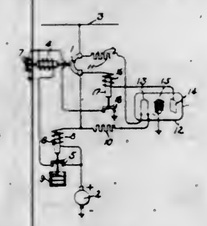
1,470,581. AUTOMOBILE ELEVATING JACK. HARRY E. DUFFY, St. Paul, Minn., assignor of five one-hundredths to Anna F. Janiesch, Sleepy Eye, Minn., and four-tenths to Paul E. Rick, St. Paul, Minn. Filed Apr. 17, 1922. Serial No. 554,001. 4 Claims. (Cl. 254—89.)

1. In a device of the kind described, a rectangular, horizontally arranged frame with cover sections adapted to be installed below the floor line of a building with its cover in plane with said floor, a number of depending hollow columns integral with said frame and a vertically slidable post within each column, means for raising and lowering said posts simultaneously and means remov-

ably secured on the top ends of said posts for engaging the under side of a vehicle, said posts having each on its inner side a toothed rack; trains of gears transversely arranged within the main frame, a train for each pair of oppositely arranged posts, the outer gears of each train meshing with the rack of its adjoining slidable post.

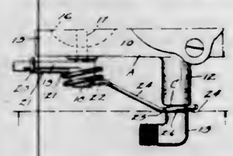


1,470,582. AUTOMATIC RECLOSING CIRCUIT-BREAKER SYSTEM. OLIVER C. TRAVER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 20, 1921. Serial No. 523,755. 11 Claims. (Cl. 175—294.)



1. In an automatic reclosing circuit breaker system, the combination with a load circuit, a source of current, a circuit breaker for connecting said source to said load circuit, and closing means for said circuit breaker, of an electron discharge tube arranged to control the operation of said closing means in accordance with the load resistance when said circuit breaker is open.

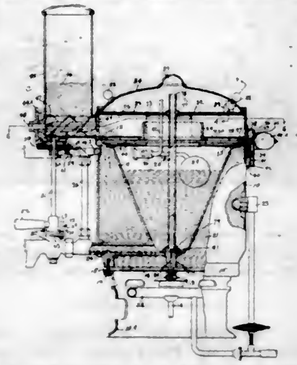
1,470,583. SPRING FOR CHOKER VALVES. JACK E. MESSENGER, Des Moines, Iowa. Filed July 9, 1923. Serial No. 650,248. 6 Claims. (Cl. 267—1.)



1. A choker valve spring comprising a resilient coil having one end projecting away from the coil tangentially thereto, the other end of the coil being extended away from the coil and having a portion inclined substantially from the tangential terminating in a portion parallel with the tangential line and having formed thereon a yoke-shaped portion with a reduced neck, the yoke-shaped portion and the coil being in different parallel planes and being both located above their connecting parts.

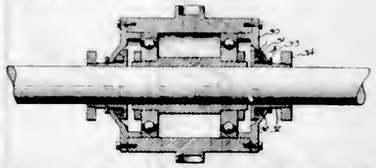
1,470,584. AUTOMATIC PERCOLATOR. VERNON C. KREUTZ, Portland, Oreg., assignor of one-half to Edwin B. Wheat, Portland, Oreg. Filed May 23, 1922. Serial No. 563,093. 10 Claims. (Cl. 53—3.)

9. In a percolator, the combination of a coffee containing vessel, a revolving tray over said vessel, a water distributing plate above said tray, means for passing water downwardly through said distributor upon the



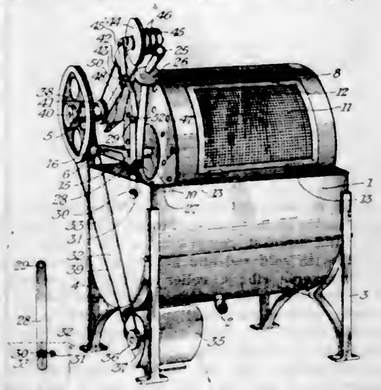
ground coffee on said tray, a filtration screen under said tray, and means for regulating the amount of water passing through said tray.

1,470,585. PACKING RING. VICTOR E. NELSON, Strathmore, Mich. Filed Aug. 18, 1919. Serial No. 318,093. 12 Claims. (Cl. 286—7.)



12. In a metallic packing, a composite ring member formed of several parts adapted to be assembled in ring like shape, a spring member positioned within the ring tending to cause the parts to expand and the said parts forming a composite expansible ring member, and a cage for the said member formed of two parts shaped to provide a recess for the ring in which the said ring seats by its tendency to expand.

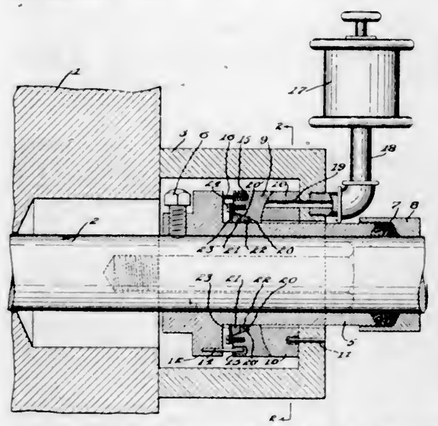
1,470,586. PHOTOGRAPHIC-PRINT-WASHING MACHINE. FRANK C. SHERMAN, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 29, 1922. Serial No. 591,375. 10 Claims. (Cl. 95—93.)



1. A photographic print washing machine comprising a tank, a movable washing device, means for suspending the washing device in the tank including a frame movable

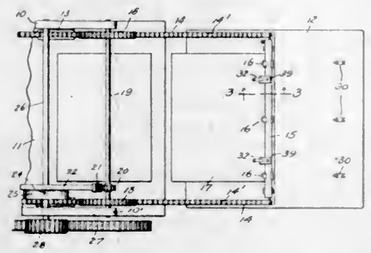
to raise the washing device to a loading position, a driving mechanism, a movable mount carrying the driving mechanism adapted to move it to and from its operative position in which it moves the washing device, and means for moving the driving mechanism from its operative driving position as the washing device is moved toward its loading position.

1,470,587. PACKING FOR TURBINE SHAFTS AND THE LIKE. WALTER F. SOMES, Jamaica Plain, Mass. Filed June 19, 1919. Serial No. 305,262. 4 Claims. (Cl. 286—8.)



1. A packing for turbine shafts and the like comprising a flanged sleeve fast to the shaft, a non-rotatable packing ring, a rotatable packing ring interposed between said flange and non-rotatable ring, fluid actuated packing means for providing a tight joint between said sleeve and said rotatable ring, and means for yieldingly urging the rotatable ring against the non-rotatable ring.

1,470,588. PAPER-FEEDING DEVICE FOR PRINTING-PRESSES. CARROLL M. KIRKLAND, Seattle, Wash., assignor to Miller Saw Trimmer Company, Pittsburgh, Pa. Filed Feb. 23, 1922. Serial No. 538,472. 5 Claims. (Cl. 271—54.)



1. In a printing-press, the combination with paper feeding mechanism including a bail provided with gripper devices for conveying successive sheets of paper onto the platen of the press, and stops secured to said platen for arresting the paper at a printing position on the platen, of trackers depending from said bail and arranged to press downwardly upon each sheet of paper after the same has engaged said stops.

Patents Nos. 1,470,589 to 1,471,319.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 315—No. 3. TUESDAY, OCTOBER 16, 1923. Price—$5 per year.

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Prints	17—No.	6,928 to No.	6,944, inclusive.
Reissues	7—No.	15,693 to No.	15,700, inclusive.
Designs	24—No.	63,128 to No.	63,151, inclusive.
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Total	1021		

Adhesion of Canada to the International Convention for the Protection of Industrial Property.

U. S. PATENT OFFICE, *Washington, Oct. 2, 1923.*

The following communication, referred to this Office by the Secretary of the Interior, is published for the information of those concerned.

THOMAS E. ROBERTSON,
Commissioner.

[Translation.]

LEGATION OF SWITZERLAND,
Washington, D. C., September 20, 1923.

Mr. SECRETARY OF STATE:

By direction of my Government I have the honor to inform Your Excellency that on the 21st of August last the British Legation at Berne advised the Federal Council, with request that it be made known to the Governments of the countries that belong to the Union for the Protection of Industrial Property, that the Colony of Canada acceded to the Convention of the Union of Paris of March 20, 1883, for the Protection of Industrial Property, revised in Brussels December 14, 1900, and in Washington June 2, 1911.

According to the note of the Legation and as provided by article 16bis of the said Convention of Union, the adhesion will go into effect on September 1, 1923. Begging you kindly to take note of the foregoing, I take this occasion, etc.

MARC PETER,
Minister of Switzerland.

Interference Notices.

U. S. PATENT OFFICE, *Washington, Oct. 4, 1923.*

The Bell Cap Company, their assigns or legal representatives, take notice:

An interference having been declared by this Office between William London, 119 North Main Street, High Point, N. C., for registration of a trade-mark and trade-mark registered September 19, 1922, No. 158,891, to The Bell Cap Company, 726 Market Street, Philadelphia, Pa., and a notice of such declaration sent by registered mail to said The Bell Cap Company at the said address having been returned by the post-office authorities as undeliverable, notice is hereby given that unless The Bell Cap Company, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

W. A. KINNAN,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, Sept. 19, 1923.*

Benoist Bros. Mfg. Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Albert Setzer, of 59 Broadway, Providence, R. I., for registration of a trade-mark and trade-mark registered February 15, 1910, No. 76,778, to Benoist Bros. Mfg. Co., of 3923 Olive Street, St. Louis, Mo., and a notice of such declaration sent by registered mail to said Benoist Bros. Mfg. Co., at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Benoist Bros. Mfg. Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

ADVERSE DECISIONS IN INTERFERENCE.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,365,373, F. L. Cantrall, Steering wheel, decided August 25, 1923, claims 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12.

Pat. 1,370,188, D. P. Cleveland, Paint and varnish removing process, decided August 24, 1923, claims 1, 2, and 3.

TRADE-MARKS CANCELED.

162,175. Rubber heels. Taunton Rubber Company, Taunton, Mass. Registered December 5, 1922. Canceled July 24, 1923.

Condition of Applications Under Examination at Close of Business October 5, 1923.

(Total number of applications awaiting action, excluding Trade-Mark Division, 75,554; Trade-Mark Division, 3,453. Oldest new case, Dec. 7, 1922; oldest amended, Dec. 6, 1922. The dates given are 1922 except where * indicates 1923.)

Room No	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	*Jan. 8	Dec. 13	1,344
128	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	*Jan. 25	Dec. 8	1,430
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	*Mar. 23	*Mar. 28	1,327
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Dec. 11	*Mar. 12	1,657
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Dec. 12	Dec. 18	1,551
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Medicines; Plastic Compositions; Substance Preparation.	Dec. 9	*Mar. 12	1,811
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	*Jan. 11	*Jan. 17	2,818
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*Mar. 3	*May 5	1,855
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	*Jan. 8	*Aug. 24	883
235	10. HUNTER, O. F. (Acting), Motor Vehicles; Land Vehicles—Animal Draft Appliances, Bodies and Tops, Dumping, Wheel Substitutes.	*Jan. 2	*Mar. 15	1,514
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skin, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Apr. 5	*Mar. 3	969
322	12. PIERCE, P. P., Machine Elements	*Jan. 10	*Jan. 29	1,456
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	*Jan. 5	*May 21	1,289
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Dec. 7	*July 28	1,092
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Dec. 11	Dec. 19	2,126
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Dec. 18	Dec. 18	2,640
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Association or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Dec. 8	*May 3	1,625
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	Dec. 7	Dec. 8	2,098
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	*May 8	*June 4	714
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Mar. 10	*Jan. 29	1,610
212	21. THURBER, W. L., Winding and Reeling; Textiles—Braiding, Netting, or Lace Making, Cloth Finishing, Fiber Preparation, Knitting, Spinning, Twisting or Twining, Weaving.	Dec. 11	*July 16	1,043
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	*Feb. 7	*Mar. 1	657
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing	Dec. 14	Dec. 11	842
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Dec. 11	*Mar. 1	1,331
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Gas Separation.	*Apr. 2	*Mar. 6	1,072
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Dec. 11	Dec. 14	1,051
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Dec. 22	*Feb. 15	1,468
225	28. BENSON, A. R., Internal-Combustion Engines	*Jan. 29	*Jan. 27	1,408
147	29. MORRIS, B. N., Abrading; Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	*Jan. 10	*Apr. 2	1,359
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	*Jan. 10	*July 12	1,939
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar, Starch, and Carbohydrates; Concentrating Evaporators.	Dec. 27	Dec. 6	1,699
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Dec. 8	Dec. 9	1,397
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	*Jan. 6	*Jan. 4	1,720
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Feb. 16	*Mar. 29	912
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Apr. 4	*Apr. 27	1,013
265	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Mar. 15	*Mar. 12	2,092
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Dec. 18	Dec. 23	1,919
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Dec. 22	Dec. 12	1,979
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Dec. 7	Dec. 6	1,390
269	40. OBERLIN, J. J., Baggage; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Dec. 14	*May 1	2,124
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	*Jan. 17	*Apr. 11	1,018
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Dec. 15	*Jan. 2	1,804
382	43. HOPKINS, F. M., Baths and Closets; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	*Jan. 23	Dec. 16	1,907
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	*Jan. 8	*Apr. 12	1,236
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	*Jan. 31	*Jan. 10	1,687
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	*Feb. 3	*Feb. 12	1,495
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time-Controlling Mechanism.	Dec. 26	*Apr. 21	1,196
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Dec. 7	Dec. 9	2,444
383	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	*Jan. 19	*Feb. 7	605
102	DESIGNS: C. O. MARKHAM (Acting)	*May 1	*May 17	1,938
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. / Trade-Marks	*July 2	*Aug. 4	3,219
	/ Labels and Prints	*Sept. 12	*Sept. 17	234

DECISIONS IN PATENT AND TRADE-MARK CASES.

Commissioner's Decisions.

SWETT *v.* KRUEGER.

Decided April 17, 1923.

1. INTERFERENCE—PRIORITY—ABANDONED EXPERIMENT.

Where S. alleged that in the year 1914 he constructed and tested devices that satisfy the requirements of count 1, that this work was entirely forgotten by him at the time he invented the device disclosed in his application, and that it was only after the accidental discovery of the device introduced in evidence that he recalled his earlier work, and where he had been permitted to amend his preliminary statement after such discovery, *Held* that S.'s 1914 device was nothing more than an abandoned experiment.

2. SAME—SAME—SAME.

Held also that the fact that S. claims to have made successful tests of his 1914 device does not change the situation and that he must be judged by his conduct with respect to his 1914 device.

3. SAME—SAME—IMMATERIAL WHETHER FORGOTTEN WORK WAS ABANDONED EXPERIMENT OR REDUCTION TO PRACTICE.

Held also that S. should not be permitted to derive any benefits from his work in 1914. Whether this work be considered as an abandoned experiment or as an actual reduction to practice, it has no bearing on his later invention. He admits that the two are not to be tied together as a succession of related acts in making the invention of the issue, and his 1918 invention, made in ignorance of his 1914 work, should not be given the benefit of the 1914 device for reduction to practice.

APPEAL from the Examiners in Chief.

PACKAGE FASTENERS.

Messrs. Rector, Hibben, Davis & Macauley and *Messrs. Mauro, Cameron, Lewis* and *Kerkam* for Swett.

Mr. William P. Hammond for Krueger.

FENNING, *Assistant Commissioner:*

This is an appeal by the junior party, Swett, from the decision of the Examiners in Chief affirming the decision of the Examiner of Interferences awarding priority of invention of the subject matter in issue to the senior party, Krueger.

The issue is set forth in three counts which read as follows:

1. As a new article of manufacture, a self-contained separable sticker-fastening comprising two gummed pieces of pliable material with flap-portions meeting edge to edge in the same flat plane, and a metal clip lying flat against said flap-portions bridging the edges thereof and stapled thereto.

2. As a new article of manufacture, a self-contained sticker-fastening comprising two gummed pieces of pliable material with flap-portions meeting edge to edge in the same flat plane, and a flat metal clip lying against said flap-portions bridging the edges thereof and piercing said flap-portions and having tongues clamped thereover.

3. As a new article of manufacture, a self-contained separable sticker-fastening comprising two gummed pieces of pliable material with flap-portions meeting edge to edge in the same flat plane, and a flat metal clip lying against the inner side of both flap-portions and having tongues clamped thereover.

Krueger filed August 14, 1917. Swett filed June 10, 1918, and received his patent on July 8, 1919. After judgment on the record had been rendered against him Swett presented a motion to vacate the judgment and file an amended preliminary statement, in view of newly-discovered evidence. This motion was granted, and testimony was taken.

The newly-discovered evidence was introduced into the record as Exhibit No. 6. It consists of two pieces of gummed paper fastened together by a bent pin. It satisfies the requirements of count 1, but not of counts 2 and 3. There can be no question as to correctness of the award of priority as to counts 2 and 3 to Krueger, because Swett has not overcome Krueger's record dates as to these counts.

Swett alleges that in the year 1914 he constructed and tested devices like that embodied in Exhibit No. 6, that this work was entirely forgotten by him at the time he invented the fastener disclosed in his application, and that it was only after the accidental discovery of the fastener introduced in evidence as Exhibit No. 6 that he recalled his earlier work.

The Examiner of Interferences held that the existence in the year 1914 of fasteners like Exhibit No. 6 had not been sufficiently proved by Swett. The Examiners in Chief did not agree with this conclusion, but held, nevertheless, that Swett's 1914 work amounted only to an abandoned experiment. They further held that if the tests made by Swett in 1914 amounted to reduction to practice, which they denied—

then the doctrine of equitable estoppel and practice thereunder, established by a long line of decisions like *Mason v. Hepburn* (1898, C. D., 510) applies, in that Swett "concealed or suppressed his invention"—never disclosed it again to any one or to any members of the public nor applied for a patent.

They also held that Swett could not prevail as being the first to conceive, although the last to reduce to practice, because he was not diligent when Krueger entered the field.

Swett rests his case on his alleged actual reduction to practice in 1914, which he claims can not be called an abandoned experiment. He maintains the doctrine of equitable estoppel does not apply, because his activities in 1918 were not stimulated by the appearance of a rival, and because he was the first to disclose the invention to the public. He cites numerous decisions to support the latter conclusions and also to show that abandonment must be affirmatively proved. Swett does not ask for the benefit of his 1914 device as conception, unless accompanied by a holding of reduction to practice at that date, because, as stated on page 2 of his brief—

he does not contend that the early making, exhibition and testing of the original fastener (in 1914) had any direct conscious connection with the 1918 fastener.

[1] I am satisfied that there was no error in holding Swett's 1914 fastener to be nothing more

than an abandoned experiment. Swett had completely forgotten about his 1914 fastener at the time he invented the fastener disclosed in his patent. The later device was not a development of the inventive idea embodied in the earlier device, but represented an entirely new inventive act. The earlier device had been cast aside, without any efforts to develop, patent, or disclose it to the public. Swett's conduct would warrant no other conclusion than that he did not consider the 1914 device as a satisfactory fastener and abandoned it, devoting his energies, so far as fasteners were concerned, to the manufacture of all paper fasteners. The situation is similar to that in *Duff* v. *Latshaw* (136 O. G., 658; 31 App. D. C., 235), in which the court said:

> Duff's evidence tended to show that a solid-arm-pulley model produced by him in evidence, had been constructed by him in the year 1895. The Commissioner found this to be true, and that this model contained the essential features of the invention of the issue. There seems to be no reason to doubt the soundness of this conclusion. But Duff had laid this model away and had made no previous attempt to introduce it into commercial use or to patent it. He evidently passed it by in favor of his screwed-arm construction, and the pipe-arms, which he had interested Latshaw in. The Commissioner rightly held that this model was not a reduction to practice, and nothing more than an abandoned experiment, which was unavailing as against a later independent conception of Latshaw.

[2] The fact that Swett claims to have made successful tests of his 1914 device does not change the situation. (*Howard* v. *Hey*, 95 O. G., 1647; *Quist* v. *Ostrom*, 108 O. G., 2147; *Jenner* v. *Dickinson* v. *Thibodeau*, 116 O. G., 1181; *Hillard* v. *Brooks*, 111 O. G., 302; *Brenizer* v. *Robinson*, 201 O. G., 1219; *Grus, jr.* v. *Eynon*, 276 O. G., 780.) Swett must be judged by his conduct with respect to his 1914 device. (*Ocumpaugh* v. *Norton*, 115 O. G., 1850; *Grus, jr.* v. *Eynon*, supra.)

[3] It is also believed that Swett should not be permitted to derive any benefits from his work in 1914. Whether this work be considered as an abandoned experiment or as an actual reduction to practice, it has no bearing on his later invention involved herein. If the two are not to be tied together as a succession of related acts in making the invention of the issue, on the consideration of the question of diligence, and Swett admits that they should not, then the 1918 invention, made in ignorance of the 1914 work, should not be given the benefit of the 1914 device for a date of reduction to practice. Any benefits that might have been derived from his earlier work were not availed of by Swett or given by him to the public.

While Swett urges that he was the first to bring the invention before the public by obtaining his patent for his 1918 device, he was not the first to file an application. In *Dieckmann* v. *Brune* (171 O. G., 1258), the court said that Dieckmann was—

> the first to bring the invention before the public by making application for the patent.

Swett had no knowledge of the invention at the time Krueger constructively reduced to practice by filing his application. He had forgotten his work of 1914 and had not made the invention disclosed in his patent. Under these circumstances Swett should not be permitted to go back to the work done in 1914 to prevail over Krueger.

For the reasons stated above the decisions cited in appellant's brief are not considered in point; but in any event the 1914 work of Swett was so clearly an abandoned experiment that he is not entitled to prevail.

The decision of the Examiners in Chief awarding priority of invention of the counts of the issue to Theodore H. Krueger, the senior party, is affirmed.

EX PARTE DONNELL.

Decided August 21, 1923.

1. PRACTICE UNDER IN RE MCNEIL—EXPLANATION HOW THE DECISION APPLIES—INDICATION OF FEATURE REGARDED AS THE INVENTION, IF ANY.

Where in his first action the Examiner rejected the claims "for lack of patentability in the alleged combination according to *in re McNeil* (100 O. G., 2178), in view of Washburn, 919,658," and the applicant thereafter substituted a new claim, *Held* that the Examiner was clearly in error in making his rejection of the claim presented in the amendment final, not having explained in his first action how the decision cited applied to the combination claimed or stated to the applicant in what feature the alleged combination resided.

2. SAME—EFFECT OF FINAL REJECTION.

If, instead of adopting the Examiner's suggestion and directing the claim to what the Examiner regards as the real invention, if any is present, the applicant traverses the Examiner's action and persists in the view that the invention lies in the combination and that the references cited do not show that the combination is unpatentable, he would not, after his contentions have been considered and after he has been given an opportunity to amend to meet the Examiner's holding and the rejection has been made final, or after it had been affirmed on appeal, be entitled to present claims to the element.

3. SAME—FIRST ACTION ON CLAIMS TO A COMBINATION AND ALSO TO ONE OF THE ELEMENTS THEREOF.

If claims are presented to a combination and also to one of the elements thereof and the Examiner is of the opinion that the invention, if any in view of the prior art, is in the element alone, he should not require division. He should act on all the claims, rejecting the combination claims as not defining applicant's real invention in view of the art cited and pointing out that if the combination claims should subsequently be found allowable they and the element claims could not be allowed in the same application.

ON PETITION.

PRESSURE GAGE FOR AUTOMOBILE TIRES.

Mr. George P. Kimmel for the applicant.

KINNAN, *First Assistant Commissioner:*

This is a petition that the Examiner be directed to enter and consider an amendment filed February 7, 1923.

The record shows that in the first action the Examiner rejected the claims—

> for lack of patentability in the alleged combination according to *in re McNeil* (100 O. G., 2178), in view of Washburn, 919,658.

The Examiner did not explain to the applicant how the decision cited applied to the combination claimed, nor did he state in what portion of the device he regarded the invention, if any, as lying. The applicant thereafter substituted a new claim, which the Examiner then finally rejected, holding that it was a substantial duplicate in all its essential features of that canceled and stating for he first time that—

> applicant's alleged invention resides in the details of the safety valve adjustment per se.

Thereafter the applicant presented an amendment containing a claim limited to the safety valve, and it is this amendment which the Examiner has refused to enter because the previous rejection was final.

[1] The Examiner was clearly in error in making his rejection of the claim presented in the first amendment final, for in his first action he had not, as he deemed necessary in his final action, explained why the combination was unpatentable or stated to the applicant in what feature the alleged invention resided. If the Examiner was of the opinion that applicant's invention, if any, was not in the combination as originally claimed, but in a certain element of the combination, he should have so stated before closing the prosecution of the case before him, to the end that the applicant could have amended to put his claim in proper form or have been heard upon the question of the propriety of so doing before complying with the Examiner's requirement.

Where an applicant is informed that his invention lies in an element, and not in the combination—that is, that he is presenting a claim for his invention in a wrong form—and adopts the Examiner's suggestion, the applicant can not be held to have shifted his position and to be claiming an invention other than that originally presented. (See *ex parte Day*, 105 O. G., 1782; 1903, C. D., 279.)

[2] If, instead of adopting the Examiner's suggestion and directing the claim to what the Examiner regards as the real invention, if any is present, the applicant traverses the Examiner's action and persists in the view that the invention lies in the combination and that the references cited do not show that the combination is unpatentable, he would not, after his contentions have been considered and after he has been given opportunity to amend to meet the Examiner's holding and the rejection has been made final, or after it had been affirmed on appeal, be entitled to present claims to the element. But that is not this case.

[3] If claims are presented to a combination and also to one of the elements thereof and the Examiner is of the opinion that the invention, if any in view of the prior art, is in the element alone, he should not require division. So long as he holds the combination claim unpatentable because for an old or exhausted combination such claim must be deemed as merely cast in an improper form and not a claim for an invention different and divisible from the element claimed. He should, in such a case, act on all the claims, rejecting the combination claims as not defining applicant's real invention in view of the art cited and pointing out that if the combination claims should subsequently be found allowable they and the element claims could not be allowed in the same application.

The amendment filed February 17, 1923, should be entered and considered.

The petition is granted.

U. S. Circuit Court of Appeals—Eighth Circuit.

MYLES STANDISH MFG. CO. *v.* CHAMPION SPARK PLUG CO. CHAMPION SPARK PLUG CO. *v.* MYLES STANDISH MFG. CO.

Decided May 15, 1922.

[282 Fed. Rep., 961.]

1. PATENTS—1,180,799, CLAIMS 1, 3, AND 6, FOR SPARK PLUGS, AS LIMITED, HELD VALID AND INFRINGED.

The Stranahan patent, No. 1,180,799, claims 1, 3, and 6, for spark plugs for internal-combustion engines, *Held* limited to a plug having a flanged gasket, which, in combination with certain common types of cores and shells, has the effect of readily centering the core in the shell, but, as so limited, to possess utility and not anticipated; also *Held* infringed.

2. SAME—PATENTEE MAY RECOVER PROFITS, THOUGH SHARE DUE TO INFRINGING DEVICE IS SMALL PART OF ENTIRE PROFIT.

A patentee may recover the profits derived from an infringer's use or sale of his invention or damages for the use, though the share of the profits to which he may be entitled may be a small part of all the profits derived from the use or sale of the infringing device.

3. TRADE-MARKS AND TRADE NAMES AND UNFAIR COMPETITION—SALE OF SPARK-PLUG CORES FOR USE IN PLAINTIFF'S SHELLS NOT UNFAIR COMPETITION.

Unfair competition can not be predicated on the sale of spark-plug cores made to fit plaintiff's shells and sold for replacing broken or worn-out cores of plaintiff's plugs.

4. SAME—MANUFACTURER OF SPARK PLUGS USED BY AUTOMOBILE MANUFACTURER ENTITLED TO ENJOIN OTHERS FROM SELLING THEIRS AS FACTORY EQUIPMENT.

A manufacturer of spark plugs is entitled to the exclusive advertising advantage derived from the fact that its plugs are used by an automobile manufacturer as its factory equipment and is entitled to enjoin the use in the sale of other plugs of expressions calculated to make the ordinary purchaser think they are used by the automobile manufacturer as factory equipment.

5. SAME—SALE OF SPARK PLUGS AS "STANDARD" PLUGS FOR CERTAIN CARS HELD UNFAIR COMPETITION, AS AGAINST MANUFACTURER OF FACTORY EQUIPMENT.

The sale of spark plugs as "Standard spark plugs for Fords" constitutes unfair competition as against the manufacturer of the plugs constituting factory equipment for Ford cars, though the word "standard" has a well-defined meaning in the automobile trade as referring to the size of the plug, where its use would probably deceive ordinary purchasers into thinking the plug was factory equipment.

6. SAME—USE OF NAME OF AUTOMOBILE IN SELLING SPARK-PLUG CORES HELD UNFAIR COMPETITION, AS AGAINST MANUFACTURER OF FACTORY EQUIPMENT.

The use of the expression "Ford core" in the sale of spark-plug cores constitutes unfair competition as against the manufacturer of spark plugs and cores used as Ford factory equipment.

7. SAME—NOT UNFAIR COMPETITION TO STATE SPARK PLUGS CAN BE USED IN FORD ENGINES.

It is not unfair competition as against the manufacturer of spark plugs constituting factory equipment for Ford engines for a seller of other plugs to state that they can be used in Ford engines.

8. SAME—DEFENDANT CAN NOT CONVEY IMPRESSION THAT ITS SPARK-PLUG CORES ARE OF PLAINTIFF'S MANUFACTURE.

A seller of spark plugs and cores intended for use in replacing broken and worn-out cores of plaintiff's spark plugs can not use any expression or do any act conveying the impression that its plugs and cores are of plaintiff's manufacture.

9. APPEAL AND ERROR—DECREE ORDERING ACCOUNTING AS TO DAMAGES NOT FINAL AS TO DISALLOWANCE OF PROFITS.

A decree finding for plaintiff on the issues of infringement and unfair competition and ordering an accounting for damages and profits for infringement and damages only for unfair competition is not final as to the disallowance of profits from unfair competition, so as to support an appeal by plaintiff, under Judicial Code, section 128 (Comp. St., sec. 1120).

APPEALS from the District Court of the United States for the District of Nebraska; Joseph W. Woodrough, judge.

Suit by the Champion Spark Plug Company against the Myles Standish Manufacturing Company. Decree for plaintiff, and defendant appeals, and plaintiff brings a cross appeal. Cross appeal dismissed, and decree modified and affirmed.

Mr. Henry M. Huxley (*Mr. George L. Wilkinson* on the brief) for Myles Standish Mfg. Co.

Mr. A. C. Paul and *Mr. Wilbur Owen* for Champion Spark Plug Co.

Before SANBORN, STONE, and LEWIS, Circuit Judges.

STONE, *Cir. J.*:

The Champion Spark Plug Company brought its complaint against the Myles Standish Manufacturing Company upon two counts. The first cause of action, as tried, was for infringement of claims 1, 3, and 6 of Stranahan, No. 1,180,799 (April 25, 1916), covering spark plugs for internal-combustion engines. The second count was for unfair competition in the sale of certain spark plugs and spark-plug cores.

The defenses to infringement were invalidity of the patent, because of anticipation and of lack of novelty, and noninfringement. The unfair competition was denied. The court entered an interlocutory decree which sustained the three claims of the patent, found infringement and unfair competition, enjoined both, and ordered an accounting to ascertain profits and damages for infringement and damages for the unfair competition. The Standish Company has appealed (No. 5811) from this entire decree, and the Champion Company has cross appealed (No. 5851) from that portion of the decree allowing an accounting in respect to unfair competion only for damages, and not for profits, as well.

This appeal embodies the sustaining of the patent and the infringement thereof as to the first count, and the finding of unfair competition as to the second count.

[1] The patent, here involved, covers certain features of spark plugs. The power in gasoline engines is obtained through explosions, within cylinders, of gasoline gas under compression. The explosion is caused by an electric spark, which is produced within the cylinder gas chamber. This spark is obtained through a device called a spark plug which screws into the cylinder case, and extends the firing end into the gas chamber. The electric current is conducted through an electrode, located in the plug and surrounded by insulating porcelain or mica. This electrode with its insulation is called the "core." This core fits into a metal "shell" which holds the core tightly in proper position. In some plugs the core is solidly built into the shell and is not removable. However, in a large class of plugs the core is readily removable. In the removable type the general method of holding the core in place is as follows: The shell is composed of two parts which screw together holding the core firmly between them. The inner end of the electrode is exposed and located at such distance from an electrode on the shell so that the passage of the current through the core electrode causes a spark across this gap and thus explodes the gas.

The problems of every character of spark plug are two: to keep the current-carrying electrode perfectly insulated, and to keep the firing points properly spaced to secure the most perfect spark. Where the spark plug has a removable core there is the additional problem of making the junction points of core and shell gas tight. There are other, less important, construction problems, but those just enumerated are vital to the efficiency of a spark plug. The universal method of securing the gas-tight juncture is by the use of gaskets at one or both of the two contact points between the core and shell. The problem of fire-point spacing is concerned with the proper centering in the plug of the core electrode. This is largely accomplished through the corresponding shapes of the core and the shell within which it fits.

Spark plugs, with removable cores, were not new when Stranahan entered the art. His patent was directed to improvements therein. The objects which he expected to accomplish by his patent were, as stated in the application, the—

provision of improved means for firmly and closely holding the porcelain within the shell without injury to the porcelain, and for preventing the escape of gases around the porcelain,

and to provide a gasket—

provided with means for insuring a perfect centering and seating

of the core.

The claims here involved are 1, 3 and 6. Claim 1 is for a combination with a core and shell—

having cooperating shoulders and being relatively spaced one from the other, of a gasket having an annular transversely projecting seat portion for coaction with said shoulder and having end portions projected in opposite directions substantially lengthwise of the gasket axis from the inner and outer edges of said seat portion, with one end portion fitting the core and the other end portion fitting the shell bore.

Claim 3 is for a combination with core and shell—

of a gasket having one end portion in centering contact with the shell and its other end portion in centering contact with the porcelain and having a portion intermediate said end portions which is gripped between respective portions of the shell and porcelain.

Claim 6 is for a combination with core and shell—

of a gasket having one edge portion restricted with respect to the shell and in centering engagement with the porcelain, and its other edge portion enlarged relative to the porcelain and in centering engagement with the shell and having an intermediate part gripped between the shell and porcelain.

A study of these claims impresses the conclusion that the element relied upon by Stranahan to attain his avowed objects was the flanged form of gasket having a centering effect. This view is confirmed by the statement in his application that—

the provision on each gasket, or either of them, of a flange, which projects from an edge thereof lengthwise of the shell, is a most important feature in connection with the seating and maintaining of a gasket in true centered relation with respect to the shell and porcelain and thereby preventing a porcelain from being secured in lop-sided position within the shell or with its axis out of true parallelism with the axis of the shall, in which lop-sided position the porcelain may have contact with the metal of the shell. It is found in practice that a tighter and more perfect joint is not only provided between the seating parts of a spark plug by maintaining a gasket in centered position therein, but also that the air space between the shell and porcelain is maintained entirely there around so that the porcelain is not liable to be injured by having contact with the metal of the shell. It will be noted that the adjacent flanges of the gaskets 12 and 13 fit against the wall of the shell opening, thereby maintaining the gaskets in true centered relation to the shell.

This is confirmed by the file wrapper. All of the claims of the patent, as originally applied for, were rejected. Regarding original claims 3 and 4 the Examiner said:

There would be no invention to have a flange on the packing in view of Benoist, 898,427, September 15, 1908.

The rejection of claims 5, 6, and 7 was on the ground that they—

do no bring out that the flanges fit the bore of the bushing. Therefore their utility as centering means is not properly defined. The claim is answered by Mosier, in view of Benoist.

In submitting the first amendment of the claims, the applicant differentiates the references cited by the Examiner on the ground that—

it is not found in any of the reference patents that the gaskets have the centering action with respect to the shell and porcelain that is the case with applicant's gaskets.

Applicant also there says:

In the assembling of spark plugs it is found very important to provide a gasket which will operate to center the porcelain within the shell so that when the shell is tightened or fixed to the porcelain the axes of both will stand in parallel relation. The Champion Spark Plug Company, which is the assignee of the invention herein, is the largest manufacturer of spark plugs in the world, and it was to overcome the objections incident to the use of the forms of gaskets commonly employed that the present gaskets were devised.

This amended application was rejected because—

claims 1 and 2 are not patentable over Mosier, 698,042, April 22, 1902 (123–169), from which the present device differs only in the degree to which the gaskets are extended around the porcelain.

Claims 3, 4, 5, 6, 7, and 8 are answered by the same reference; the invention, if any, being in the packing, not in the combination.

In submitting a second amended application, the applicant stated:

As stated in the last amendment it is very important in the rapid assembling of spark plugs to have some self-centering means, as without such means extreme care must be taken to secure the porcelain or interior insulating member in proper centered relation within the shell.

The Examiner has failed so far to find any spark plug reference in which a gasket is shown as having one edge in centering engagement with the porcelain and its other edge in centering engagement with the shell as called for by applicant's claims. It will be noted that some of applicant's claims refer to a gasket as having a cushioning portion and being provided with extensions or portions at opposite sides of the cushioning portion, which coact, one with the porcelain and the other with the shell to center the porcelain therein. This centering feature also facilitates assembling by reason of the gasket being held in proper seating relation to both the porcelain and shell so that when the parts are tightened the gasket will be seated in true centering relation to the shell and porcelain.

The Examiner rejected all of the nine claims of this amendment except claims 2, 8, and 9, which were allowed.

A third amendment was submitted which incorporated some changes in claims 1, 3, and 6, and resubmitted the rejected claims 2, 4, 5, and 7. The amendment as to 3 was to—

bring out more clearly that it is the opposite end portions of the gasket which have centering contact with the shell and porcelain, respectively.

As thus presented, claims 2, 4, and 5 were allowed; claim 1 was rejected as indefinite; and claims 3 and 6, as "met by Schmidt, 980,566, January 3, 1911."

A fourth amendment was presented. This substituted the present form for claim 1; amended claim 3, by adding thereto, "and having a portion intermediate said end portions which is gripped between respective portions of the shell and porcelain"; amended claim 6 by adding thereto, "and having an intermediate part gripped between the shell and porcelain." Upon this amendment, there was an allowance of claims 1 to 7, inclusive, and rejection of claims 8 and 9 on reference.

For the fifth time the matter was presented, on claims 8 and 9 unamended, and the patent finally allowed with the nine claims.

From the application and from the file wrapper it is clear that this patent is a very narrow one and the new element is confined to a flanged gasket which, in combination with certain common types of spark-plug cores and shells, has the effect of readily centering the core in the plug. Having this scope of the patent in mind, we enter the prior art to test, first, whether there is anticipation; second, whether, if there be no anticipation, there is patentable novelty.

On the point of anticipation, there were cited, and here discussed, 19 patents, as follows: Mosler, No. 698,042; Mosler, No. 738,831; Pebbles, No. 917,651; Yost, No. 1,132,060; Jeffery, No. 1,174,157; Jeffery, No. 1,174,158; Jacobson, No. 774,432; Ottaway, No. 809,578; Mills, No. 825,856; Benoist, No. 898,427; Cherry, No. 962,314; Seeley, No. 978,494; Schmidt, No. 980,566; Schmidt, No. 999,343; Dayton, No. 1,001,363; Maher, No. 1,007,466; Johnston, No. 1,061,915; Henn, No. 1,073,043; Meyer, No. 1,079,790. Examination of these patents reveals that the art had well known the general construction of two-part shell, porcelain-shouldered core and gaskets, or washers, as cushions between the porcelain core shoulders and the shell parts. Practically all of the above citations exhibit these features. Only four of them in any way hint at the "flanged" gasket of the Stranahan patent. These four are Schmidt, 980,566, Meyer, 1,079,790, and the two Jeffery patents, 1,174,157 and 1,174,158. A careful examination of each of these four "collars"

or "rings" does not suggest the flanged gasket of Stranahan. We think there is no anticipation from any of the citations. The novelty of the patent, when thus narrowly restricted to the peculiar form of the upper gasket, is established.

There remains, concerning the patent, the question of its utility. The appellant contends that it performs no function; that the plugs "center" in the shells without any assistance from the flanges on the gasket. It seems clear that "centering" the core is a matter of some importance. The purpose of proper "centering" of the core is:

> So that under conditions in which the plug operates in the engine, the rapid change in temperature, the various strains will be equalized; whereas, if the core were lopsided, * * * the pressure of different points of the core would be quite unequal, due to expansion and contraction in heating and cooling.

There is also the strain on the core from the explosions in the cylinders. By equalizing and distributing these pressures upon the porcelain core, it is much less likely to crack and become electrically leaky. The importance of "centering" the core seems sufficiently established. As to whether the flanges on this flanged gasket aid in this centering is in dispute. This appellant contending that the ordinary gaskets without flanges will perform that function, and take up inequalities which may arise, in course of manufacture, at the seating points of the core and shell. The evidence on this point seems to establish that there is a small variance at these seating points, which occurs not infrequently in the commercial manufacture of plugs, particularly where large numbers are rapidly made; that good ordinary gaskets will take up much of this inequality and center the cores fairly well; that the flanged gasket has, in actual use, reduced the percentages of noncentering cores. We think utility has been shown, and therefore conclude that the patent is valid.

As to infringement. The gasket put out by appellant had the same metal-flanged construction and was used in the same place and manner as that covered by the patent and manufactured by the appellee. It differed only in the fact that it lacked the underlying ring of asbestos used by appellee. This is a difference affecting the cushioning of the core, but not the "centering." The "centering" is affected by the metal part of the gasket. We think infringement has been shown.

[2] If there is any doubt about the right of complainant in this suit to a recovery of the profits derived from the defendant's use or sale of its invention or to damages for the use, because the share of the profits to which the inventor may be entitled may be a small part of all the profits derived from the use or sale of the infringing device, it should be resolved by the opinion of the Supreme Court in *Westinghouse Co.* v. *Wagner Electric Mfg. Co.* (225 U. S., 604; 32 Sup. Ct., 691; 56 L. Ed., 1222; 41 L. R. A. (N. S.), 653; 180 O. G., 323). Speaking of the fund derived partly from the use of an infringing device, the Supreme Court said that the liability of the infringer is not—

> limited to those cases where the patented device is shown to have preponderated in the creation of the profits. The owner of a small part of the fund is as much entitled to the protection of the law as the owner of a larger share.

[3] As to unfair competition. The testimony is sufficient to establish that appellant's plugs are put in the trade in a way that would easily deceive a purchaser. The Champion Company complains of many acts which it claims constitute unfair competition. These include the form and appearance of the plug and the core, the printing and cuts upon the cartons, and methods of selling. As to the form and appearance of the plug and core and their physical appearance, the contention is not well founded because numerous physical exhibits here show that the general appearance and form of the plug and core are very similar to, if not identical with, many other makes of plugs long on the market. Nor can fault be found that the cores of the Standish Company were made to fit the shells of the Champion plugs and are sold as doing so. These cores are not patented. They are subject to breakage and replacement. The fact that one company makes the shell gives them no right to have no core made by others used therein after the shell has been sold.

[4-8] As to the cartons and advertising matter put out by defendant, the contention revolves around certain statements referring to use of the plugs in Ford engines. For years, the Champion plugs have constituted the factory equipment of Ford engines. Because of the large number of Ford cars, and the popular conception that the Ford Company would choose a good spark plug for the factory equipment of its cars, this usage is of substantial value to the Champion Company. To secure this advantage it has, for years, furnished these plugs to the Ford Company at less than cost. It has featured this usage in its advertising and it is entitled to the exclusive advantage thereof. On the other hand, practically any half-inch size spark plug will fit and work in a Ford engine, and any owner of a Ford car can substitute for a worn-out or unsatisfactory plug, coming in the car from the factory, any plug he desires. While the advertisements and cartons of defendant have never, in so many words, set out that defendant's plugs were factory equipment for Ford cars, it has used expressions, such as "standard spark plug for Fords," which are calculated to make the ordinary purchaser think such plugs are used by the Ford Company for factory equipment.

It may be, as contended by defendant, that the word "standard" refers to the size of the plug and has a well-defined meaning, as such, in the automobile trade. That is no defense or justification if the use of it in this connection will probably deceive the ordinary purchaser into thinking he is purchasing the factory-equipment plug. It is not the trade meaning, nor even the dictionary meaning, of a term or expression, which governs in unfair-competition cases. It is the meaning which, under the condition and circumstances usually attending sales, would be conveyed to the ordinary purchaser of the article in question. In this respect, the law is the same as in cases of misbranding or mislabeling. (*See Royal Baking Powder Co.* v. *Emerson*, C. C. A., 270 Fed., 429, 435.) In our judgment, the use of the word "standard" as here used is deceptive. The expression "Ford core," as here used, is also objectionable. While it is useful to the parties it is not always advisable for the court to undertake to define in detail the precise limits within or without which the defendant can safely act in its competition. It is often the wiser course to lay down general lines. The general rule to be applied in this case in respect to all of the claimed unfair acts is that defendant is free to state that its plugs can be used in Ford engines and that its cores can be used in Champion plugs, but it must not use any expression or do any act which will convey to the ordinary purchaser the impression that its plugs and cores either are of Champion manufacture or are used as Ford factory equipment. An important consideration in the scope of application of this general rule is that the evidence establishes and the court found that the defendant acted with the intention of causing the buying public to believe its plugs were made by complainant and were the factory equipment plugs used by the Ford Company. We approve, therefore, the application of this rule as made by the trial court in paragraphs 11 and 12 of its order.

Champion Company appeal.

The cross appeal of the complainant presents the question of whether the decree as to accounting for unfair competition should have allowed profits as well as damages.

[9] A motion to dismiss this cross appeal has been here filed, based on the ground—

> of lack of jurisdiction, by reason of the fact that said cross appeal does not come within the provisions of either section 128 or section 129 of the Jundicial Code." (Comp. St., secs. 1120, 1121.)

Section 128 regulates appeals to this court from final decrees in the district court. Section 129 regulates appeals from interlocutory decrees of injunction or receivership. The cross appellant bases no right to this appeal upon section 129 but contends the decree is, in this respect, final as to it.

This decree, made after a hearing upon the merits, declared the validity of the patent, infringement thereof, the existence of unfair competition, and the right to recover on account both of infringement and of unfair competition. As to the infringement, it allowed recovery both for damages and profits. As to the unfair competition, it allowed recovery of damages only. It then referred the matter to a special master—

> to take an account of defendant's profits as to the first cause of action herein [infringement] and plaintiff's damages as to both causes of action herein and to assess the same and to report thereon to this court.

It, also, provided—

> that the question of increase of damages under the first cause of action, and all further questions, be reserved until the coming in of the master's report.

The very recent case of *Simmons Co.* v. *Grier Bros. Co.* (258 U. S., 82; 42 Sup. Ct., 196; 66 L. Ed., —; 312 O. G., 826), decided by the Supreme Court, February 27, 1922, to which our attention has been, with commendable consideration, called since the argument by counsel for the cross appellant, seems to definitely settle that this decree is not final within the meaning of section 128. To the same effect is *ex parte National Enameling Co.* (201 U. S., 156; 26 Sup. Ct., 404; 50 L. Ed., 707; 121 O. G., 1679), where a cross appeal, presenting the same legal situation as here, was dismissed for want of jurisdiction. The motion to dismiss the cross appeal is sustained.

The order is that the cross appeal be dismissed for want of jurisdiction; that the decree be modified to require recovery on account of infringement to be confined to usage of the flanged gaskets; and that, as so modified, the decree be affirmed without prejudice to the complainant to apply to the trial court, at any time before final decree therein, for a modification of its order denying recovery of profits on account of unfair competition.

ADJUDICATED PATENTS.

(C. C. A. Ill.) Moore patent, 904,494, for locomotive boiler furnace, *Held* not infringed. *Universal Arch Co.* v. *American Arch Co.*, 290 Fed. Rep., 647.

(C. C. A. N. Y.) McWilliams patents, 920,490 and 1,137,413, *Held* invalid. *Westinghouse Electric & Mfg. Co.* v. *Metropolitan Electric Mfg. Co.*, 290 Fed. Rep., 661.

(C. C. A. Ill.) Gaines patent, 934,157, for locomotive boiler furnace, *Held* void for lack of invention. *Universal Arch Co.* v. *American Arch Co.*, 290 Fed. Rep., 647.

(C. C. A. Ill.) Graham & German patent, 934,723, for locomotive boiler furnace, *Held* valid and infringed. *Universal Arch Co.* v. *American Arch Co.*, 290 Fed. Rep., 647.

(C. C. A. Ill.) Doster patent, 986,698, for railway tie plate, not infringed. *Lundie* v. *Sellers Mfg. Co.*, 290 Fed. Rep., 811.

(C. C. A. Ill.) Moore patent, 990,375, for arch for locomotive boiler furnaces, *Held* not infringed. *Universal Arch Co.* v. *American Arch Co.*, 290 Fed. Rep., 647.

(C. C. A. Ohio.) McKesson patent, 1,028,582, for device for administering anæsthetics, *Held* not infringed. *Heidbrink* v. *McKesson*, 290 Fed. Rep., 665.

(C. C. A. Ohio.) McKesson patent, 1,028,583, for device for administering anæsthetics, *Held* not infringed. *Heidbrink* v. *McKesson*, 290 Fed. Rep., 665.

(C. C. A. Ill.) Neff patent, 1,046,008, for brick for locomotive-furnace arches, *Held* not infringed. *Universal Arch Co.* v. *American Arch Co.*, 290 Fed. Rep., 647.

(C. C. A. Ill.) Moore patent, 1,069,974, for locking brick for locomotive furnace arches, claim 3, *Held* void for lack of invention. *Universal Arch Co.* v. *American Arch Co.*, 290 Fed. Rep., 647.

(C. C. A. Ill.) Neff patent, 1,138,031, for brick arch for locomotive boiler furnaces, *Held* void for lack of invention. *Universal Arch Co.* v. *American Arch Co.*, 290 Fed. Rep., 647.

(C. C. A. Ill.) Neff patent, 1,138,033, for brick for locomotive-furnace arches, claim 5, *Held* invalid and other claims not infringed. *Universal Arch Co.* v. *American Arch Co.*, 290 Fed. Rep., 647.

(C. C. A. Ill.) Moore patent, 1,138,037, for brick for locomotive-boiler-furnace arches, *Held* not infringed. *Universal Arch Co.* v. *American Arch Co.*, 290 Fed. Rep., 647.

(C. C. A. Ill.) Rogers patent, 1,178,752, for refractory wall in locomotive boiler furnace, *Held* valid and infringed. *Universal Arch Co.* v. *American Arch Co.*, 290 Fed. Rep., 647.

(C. C. A. N. Y.) Grosvenor patent, 1,186,477, for process for hardening siccative coatings, *Held* void for lack of invention. *Wenborne-Karpen Dryer Co.* v. *Cutler Dry Kiln Co.*, 290 Fed. Rep., 625.

(C. C. A. Ill.) Newman patent, 1,212,805, for a reinforced garment, *Held* invalid and not infringed. *Sheahan* v. *Mayer*, 290 Fed. Rep., 812.

(C. C. A. N. J.) Moffat patent, 1,255,819, claims 3 and 4, for a file, *Held* void because patentee was not inventor. *Joseph Ross & Co.* v. *Wigder*, 290 Fed. Rep., 788.

(C. C. A. Ohio.) Heidbrink patent, 1,265,910, for device for administering anæsthetics, *Held* invalid. *Heidbrink* v. *McKesson*, 290 Fed. Rep., 665.

(C. C. A. Ohio.) Heidbrink patent, 1,309,686, for device for administering anæsthetics, claims 6 and 7, *Held* not infringed. *Heidbrink* v. *McKesson*, 290 Fed. Rep., 665.

(C. C. A. Ohio.) McKesson patent, 1,320,900, for device for administering anæsthetics, *Held* not infringed. *Heidbrink* v. *McKesson*, 290 Fed. Rep., 665.

(C. C. A. Ill.) Willet patent, 1,342,931, for spacer brick for locomotive furnaces, *Held* void for lack of invention. *Universal Arch Co.* v. *American Arch Co.*, 290 Fed. Rep., 647.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

958,478, W. E. Davey, Process of reenforcing trees, suit filed Sept. 1, 1923, D. C., D. Conn., Doc. 1673, *The Davey Tree Expert Co.* v. *J. A. McLain.* Same, suits filed Sept. 15, 1923, D. C., D. Conn., Doc. 1676, *The Davey Tree Expert Co.* v. *McLaughlin & Carberry.* Same, D. Md., Doc. E 378, *The Davey Tree Expert Co.* v. *E. Fontaine* (*Tree Surgeon Co.*).

1,028,039, H. E. Livingston, Double tree; 1,124,756, M. B. Lloyd, Tube-welding machine, 1,124,760, same, Continuous welding mechanism; 1,124,766, same, Tube-welding process; 1,141,068, same, Art of welding; Re. 13,941, M. Altman, Apparatus for welding the meeting edges of metallic articles, decree adjudging Patent 1,028,039 invalid as to claims 1, 4, and 8, 1,124,760 invalid as to claims 7 and 12, and 1,141,068 invalid. Bill dismissed without prejudice as to Patents 1,124,756, 1,124,766, and Re. 13,941, D. C., N. D. Ohio (E. D.), *The Elyria Iron & Steel Co. et al.* v. *The American Welding & Mfg. Co.*

1,079,675, E. M. Trimble, Convertible crib and coop; 1,321,905, J. Gannon, Portable crib, D. C., W. D. N. Y., *E. M. Trimble* v. *Woodstock Mfg. Co., Inc.* Final decree entered Sept. 5, 1923.

1,124,756. (See 1,028,039.)

1,124,760. (See 1,028,039.)

1,124,766. (See 1,028,039.)

1,141,068. (See 1,028,039.)

1,173,079, E. F. W. Alexanderson, Selective tuning system, suit filed Sept. 20, 1923, D. C., S. D. N. Y., Doc. E 27/125, *Radio Corp. of America et al.* v. *Amsco Products, Inc.*

1,295,531, J. M. Leaver, jr., Automatic bundling and tying machine, suit filed Sept. 13, 1923, D. C., N. D. Calif., Doc. E 1114, *J. M. Leaver, jr.*, v. *Weed Lumber Co.*

1,305,360, 1,305,361, C. J. Holslag, Alternating-current welding transformer: 1,305,363, same, Alternating-current metallic-arc cutting and welding apparatus, suit filed July 28, 1923, D. C., E. D. N. Y., Doc. 1302, *Electric Arc Cutting & Welding Co.* v. *E. C. Maxwell Co., Inc.*

1,305,361. (See 1,305,360.)

1,305,363. (See 1,305,360.)

1,315,700, J. H. Bregeat, Process for the recovery of volatile solvents, suit filed Sept. 18, 1923, D. C., D. Conn., Doc. 1677, *The Bregeat Corp. of America* v. *Zapon Leather Cloth Co.*

1,321,905. (See 1,079,675.)

1,363,333, 1,368,271, 1,371,252, 1,371,498, 1,379,306, N. M. Lower, Locomotive stoker, suit filed Sept. 19, 1923, D. C., S. D. Ohio, Doc. E 323, *Locomotive Stoker Co.* v. *The Hanna Stoker Co.*

1,368,271. (See 1,363,333.)

1,371,252. (See 1,363,333.)

1,371,498. (See 1,363,333.)

1,379,306. (See 1,363,333.)

1,454,322, S. Loeb, Convertible watch, suit filed May 15, 1923, D. C., S. D. N. Y., Doc. E 26/344, *S. Loeb* v. *A. Grafstein et al.* (*Jem Jewelry Mfg. Co.*). Decree temporarily enjoining and restraining defendants, filed Sept. 21, 1923.

Re. 13,941. (See 1,028,039.)

T. M. 152,573, The Clear Vision Pump Co., Gasoline-dispensing device, suit filed Sept. 18, 1923, D. C., E. D. Okla., Doc. 3069, *The Clear Vision Pump Co.* v. *O. B. Lemmon et al.*

Des. 60,878, Pardee, Dewire & Suporter, Radiator cap, Consent decree for plaintiff acknowledging payment of damages, etc., for past infringement and enjoining further infringement, D. C., W. D. Mich. (S. D.), *Miller & Pardee, Inc.*, v. *A. J. Brocher et al.* Same, suit filed Sept. 13, 1923, D. C., N. D. Calif., Doc. E 1113, *Miller & Pardee, Inc.*, v. *Golden Gate Brass Mfg. Co., Inc.*

TRADE-MARKS

OFFICIAL GAZETTE, OCTOBER 16, 1923.

[VOL. 315. No. 3.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 128,994. (CLASS 39. CLOTHING.) AMERICAN WHOLESALE CORPORATION, Baltimore and Cumberland, Md. Filed Feb. 28, 1920.

Kazykind

Particular description of goods.—Men's, Women's, and Children's Pyjamas and Nightshirts.
Claims use since July 1, 1918.

Ser. No. 137,451. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ERWIN COTTON MILLS CO., West Durham, N. C. Filed Sept. 22, 1920.

EMPRESS

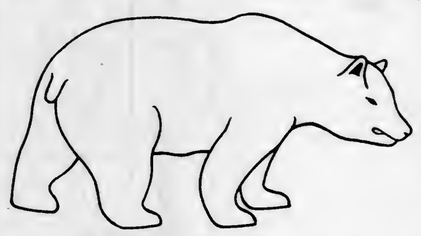
Particular description of goods.—Denims in the Piece.
Claims use since 1906.

Ser. No. 144,209. (CLASS 37. PAPER AND STATIONERY.) JOSEPH EDWIN WOLF, doing business as J. E. Wolf Advertising Co., Boston, Mass. Filed Mar. 1, 1921.



Particular description of goods.—Printing, Stamping, Embossing, Lithographing, and Engraving Work in Connection with Stationery, and Particularly Bill and Letter Heads, Tags, Envelopes, Purchase Order Forms, Statements, and Blotters.
Claims use since Feb. 1, 1921.

Ser. No. 144,811. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE GOODYEAR TIRE & RUBBER COMPANY OF CALIFORNIA, Los Angeles, Calif. Filed Mar. 16, 1921.



Particular description of goods.—Elastic Vehicle Tires Composed Wholly or in Part of Rubber, Auto Tire Flaps, Reliners, Strap-On Boots Composed of Rubber and Fabric.
Claims use since on or about Sept. 4, 1920.

Ser. No. 146,591. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PRAY CANDY COMPANY, INC., New York, N. Y. Filed Apr. 22, 1921.

Kiddie Kisses

Particular description of goods.—Candy.
Claims use since Mar. 28, 1921.

Ser. No. 147,093. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ABRAHAM COHEN, Baltimore, Md. Filed May 2, 1921.

AMERICAN ROSE

Particular description of goods.—Shortening, a Cottonseed-Oil Product.
Claims use since Apr. 13, 1921.

Ser. No. 149,089. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE LLOYD MANUFACTURING COMPANY, Menominee, Mich. Filed June 13, 1921.

LOOM WOVEN

Particular description of goods.—Baby Carriages, Sulkies, and Strollers.
Claims use since Jan. 24, 1918.

Ser. No. 150,363. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) JOSEPH E. MAGNUS, doing business as Puritan Malt Extract Co. (Not Inc.), Chicago, Ill. Filed July 14, 1921.

PURITAN



Particular description of goods.—Malt Extracts.
Claims use since February, 1919.

Ser. No. 151,102. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE SCHOELLKOPF CO., Dallas, Tex. Filed July 29, 1921.



No claim is made to the words "Famous the World Over," "Trade Mark," "Brand," "Manufactured by" or "Dallas, Texas, U. S. A." apart from the mark shown in the drawing.

Particular description of goods.—Tanned Harness Leather, Tanned Skirting Leather (Being a Leather Covering Saddles and a Leather for Bridles and Riding Equipment), Tanned Collar Leather (Being a Leather for the Back and Face of Horse Collars), Tanned Strap Leather (Being a Leather for Men's Belts, Riding Bridles, Lines, Etc.), Tanned Wool Skins (Being a Sheepskin Leather with Wool Attached, Known in the Trade as Wool Skins and Used for Lining Saddles, Skirts, and Harness Parts), Tanned Sole Leather, and Tanned Sheepskins (Being the Same Sort of Leather as Tanned Wool Skins Except That There Is No Wool Attached to the Skin, this Item Being Used for Horse Collars and for Boot and Shoe Linings).
Claims use since about July 1, 1920.

Ser. No. 152,250. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) GORHAM MANUFACTURING COMPANY, Providence, R. I. Filed Aug. 27, 1921. Under section 9 of the act of Mar. 19, 1920.

GORHAM

Particular description of goods.—Jewelry Boxes, Powder-Puff Boxes, Vanity Cases, Desk Sets, Pens, Fountain Pens, Pencils, Erasers, Blotters, Letter Openers, Pipes, Cigar and Cigarette Holders; Pipe, Cigar, and Cigarette Cases; Boxes, Jars, and Humidors, Canes, Whips and Crops, Electric Lamps and Electroliers; Cutlery—Namely, Knives, Forks, Spoons, Scissors, and Poultry Shears; Table Glassware, Bottles and Ornamental Glassware, Table Crockery, Vases, Ornamental Porcelain Ware, Jars, Jardinières, Bowls, and Jewelry for Personal Wear, Not Including Watches. All of the Above-Enumerated Articles Being Made in Part or Having Handles or Parts Made of Sterling Silver.
Claims use since 1904.

Ser. No. 153,234. (CLASS 15. OILS AND GREASES.) BARNSDALL REFINING COMPANY, Tulsa, Okla. Filed Sept. 23, 1921.

SUPER-GAS

The word "Gas" is hereby disclaimed except in connection with the other features of the mark.
Particular description of goods.—Motor Fuel Oil.
Claims use since Mar. 1, 1921.

Ser. No. 154,718. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) AUTO SPECIALTIES MANUFACTURING CO., San Francisco, Calif., and St. Joseph, Mich. Filed Oct. 29, 1921.

DREDNAUT

Particular description of goods.—Shock Absorbers for Automobiles.
Claims use since July 1, 1921.

Ser. No. 156,108. (CLASS 18. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) MUELLER METALS COMPANY, Port Huron, Mich. Filed Nov. 30, 1921.



No claim is made to the words "Trade Mark" apart from the association as shown.
Particular description of goods.—Non-Ferrous Metal Tubing Not Fabricated Into Finished Articles.
Claims use since Nov. 16, 1921.

Ser. No. 156,862. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RANDAZZO MACARONI MFG. CO., St. Louis, Mo. Filed Dec. 17, 1921.



No claim is made to the words "Rinomato Pastificio, Stile Italia, Specialita, Maccheroni e Pastine D'Ogni Genere Premiata, Marca" except when associated with the trade-mark as shown.
Particular description of goods.—Macaroni, Spaghetti, Noodles, Vermicelli, and Similar Italian Paste Products.
Claims use since Nov. 15, 1921.

Ser. No. 157,788. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WESTERN PUMP COMPANY, Davenport, Iowa. Filed Jan. 11, 1922.

Westco

Particular description of goods.—Liquid Pumps, Pumping Systems, and Parts of Said Pumps and Pumping Systems.
Claims use since Mar. 15, 1919.

Ser. No. 158,790. CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MINE AND SMELTER SUPPLY COMPANY, Denver, Colo. Filed Feb. 2, 1922.

MASSCO

Particular description of goods.—Ore-Mill and Concentrating-Table Parts—Namely, Mill Heads, Trunnions, Liners, Grate Bars, Clamp Bars, Sole Plates, Caps, Cones, Couplings, Angles, Wearing Plates, Gears, Pinions, Bearings, Manhole Covers, Feeders, Riding Rings, Riding Tires, Roller Tires, Base Plates, Bearing Bases, Swivels, Flanges, Doors, Spider Shafts, Hinge Ball Plates, Column Bases, Gear Guards, Shells, Channels, Springs, Yoke Chairs, Yokes, Brackets, Hand Wheels, Drawbar Plates, Drawbars, Side Plates, Bearing Trusses, Bed Frames, Pitmen, Toggle Seats, Pitman Caps, Toggles, Yoke Guides, Adjusting Blocks, Bushings, Feed Boxes, Rifles, and Decks.
Claims use since on or about Sept. 25, 1920.

Ser. No. 159,852. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARTHUR E. DOOR & CO. INC., Boston, Mass. Filed Feb. 27, 1922.

Poraco

Particular description of goods.—Hams and Bacons.
Claims use since July 8, 1921.

Ser. No. 159,868. (CLASS 7. CORDAGE.) THE HOOVEN & ALLISON COMPANY, Xenia, Ohio. Filed Feb. 27, 1922.



No claim is made herein for representation of the rope or of the hands in the drawings, which are shown merely to illustrate the method by which the purple lineal marker or label may be detected at an intermediate point in the rope. The trade-mark consists of an elongated lineal purple marker or label separate from the structural part of the rope, but located in the interior of the rope and inclosed by the rope strands.
Particular description of goods.—Java Hemp-Fiber Rope.
Claims use since Feb. 7, 1922.

Ser. No. 159,995. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARGARET A. BOTTOMLEY, Fall River, Mass. Filed Mar. 1, 1922.

IF IT'S BOTTOMLEY'S IT'S GOOD

No claim is made to the words "If It's Bottomley's, It's Good" apart from the mark shown, no common-law rights being relinquished.

Particular description of goods.—Candy, Ice Cream, Nut Meats, and Shelled Nuts Salted, Candied, and in Their Natural State.

Claims use since May 1, 1921.

Ser. No. 160,300. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PARTRIDGE, SINGER & BALDWIN, INC., Wilmington, Del., and New York, N. Y. Filed Mar. 7, 1922.

WARFORD

The mark has been in bona fide use for not less than one year in interstate commerce by the applicant.

Particular description of goods.—Automobile Transmissions.

Claims use since Jan. 15, 1922.

Ser. No. 160,887. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KANSAS CITY PURE FOOD CO., Kansas City, Mo. Filed Mar. 18, 1922.

HONEY DEW

Particular description of goods.—Ice-Cream Cones.

Claims use since May 1, 1921.

Ser. No. 161,579. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOWARD REED, Marysville, Calif. Filed Mar. 31, 1922.

EL RIO ORCHARD

Particular description of goods.—Fresh Pears.

Claims use since 1901.

Ser. No. 161,587. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SWEETMAN COMPANY, INC., St. Louis, Mo. Filed Mar. 31, 1922.

SWEETMAN

Particular description of goods.—Wax Chewing Gum.

Claims use since Dec. 16, 1921.

Ser. No. 162,232. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WARREN GEAR PRODUCTS COMPANY, Warren, Pa. Filed Apr. 12, 1922.

WARFORD

Particular description of goods.—Automobile Transmission Mechanisms.

Claims use since about Nov. 1, 1921.

Ser. No. 162,267. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) R. & W. PRODUCTS CO., Milwaukee, Wis. Filed Apr. 13, 1922.

GemGell

Particular description of goods.—Dessert Pudding Powders.

Claims use since Feb. 24, 1922.

Ser. No. 163,187. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) STEWART-WARNER SPEEDOMETER CORPORATION, Chicago, Ill. Filed May 1, 1922.

WARN-O-METER

Particular description of goods.—Instruments for Indicating the Temperature of Internal-Combustion Engines and Other Mechanisms Subject to Heat.

Claims use since July 1, 1921.

Ser. No. 164,107. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HARRY E. HOFFMASTER, Toledo, Ohio. Filed May 19, 1922.

MU-TO

Particular description of goods.—General Scouring Preparation in Liquid Form.

Claims use since May 12, 1922.

Ser. No. 164,206. (CLASS 38. PRINTS AND PUBLICATIONS.) IRWIN K. UNGAR, doing business as Glob-Artco, Cincinnati, Ohio. Filed May 20, 1922.

GLOBARTCO

Particular description of goods.—Calendars, Mailing Cards; Cut-Out Novelties—Namely, Animals, Clowns, Paper Dolls; and Artistic Cards Known as Kitchen Reminders.

Claims use since Jan. 2, 1922.

Ser. No. 165,787. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DEXTRA MANUFACTURING CO., Detroit, Mich. Filed June 21, 1922.

DEXTRA

The drawing is lined to denote the color orange or yellow.

Particular description of goods.—Vehicle Jacks.

Claims use since Apr. 21, 1922.

Ser. No. 165,826. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed June 21, 1922.

POLY CHROME

Particular description of goods.—Candles.

Claims use since May 5, 1921.

Ser. No. 165,828. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed June 21, 1922.

TUDOR

Particular description of goods.—Candles.

Claims use since Apr. 17, 1922.

Ser. No. 165,830. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed June 21, 1922.

Particular description of goods.—Candles.

Claims use since Apr. 17, 1922.

Ser. No. 165,834. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed June 21, 1922.

KALO-CHROME

Particular description of goods.—Candles.

Claims use since Oct. 25, 1921.

Ser. No. 165,978. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ABRASIVE COMPANY, Bridesburg, Philadelphia, Pa. Filed June 24, 1922.

Sans-Slip

Particular description of goods.—An Abrasive Material Consisting of Either Natural or Artificial Aluminous Abrasive Grains of Various Sizes, According to the Service Required, for Impregnating Cement and Composition Floors, Walks, and Stair Treads to Prevent People from Slipping When Walking on the Same.

Claims use since Nov. 3, 1921.

Ser. No. 167,383. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALUMET PACKING CO., Sheboygan, Wis. Filed July 26, 1922.

ROYAL JERSEY
BRAND

The word "Brand" does not form a part of the registration sought apart from the mark shown in the drawing.

Particular description of goods.—Canned Peas.
Claims use since Jan. 30, 1922.

Ser. No. 167,489. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROBERT ROSENTHAL & CO. INC., New York, N. Y. Filed July 27, 1922.

DU-VETTE

Particular description of goods.—Silk Piece Goods and Artificial-Silk Piece Goods.
Claims use since March, 1922.

Ser. No. 167,734. (CLASS 39. CLOTHING.) NEW YORK MACKINTOSH CLOTHING COMPANY, New York, N. Y. Filed Aug. 2, 1922.

DRI-LITE

Particular description of goods.—Raincoats for Men, Women, and Children.
Claims use since about Apr. 15, 1922.

Ser. No. 167,896. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) FRED A. PURDY, New York, N. Y. Filed Aug. 7, 1922.

Audigraph

Particular description of goods.—Machines for Printing, Issuing, and Auditing Tickets.
Claims use since Apr. 18, 1922.

Ser. No. 168,961. (CLASS 37. PAPER AND STATIONERY.) A. W. FABER, Stein, near Nuremberg, Germany. Filed Sept. 1, 1922.

A. W. FABER

Particular description of goods.—Lead Pencils, Pencil Holders, Colored Pencils, Patent Pencils, Artists' Pencils and Leads for Them, Copying Pencils, Ink Pencils, Chalk, Chalk Pencils, Chalk Holders, Slate Pencils, Erasers, Slate Boards, Rulers, Drawing Rubbers, Blotters, Penholders, Fountain Pens, Memorandum Books, Pen Boxes, Rubbers, Letter Stands, Folding Boxes, Erasing Knives, Pencil Sharpeners, Files for Sharpening Pencils, India-Rubber Bands, Millimeter Paper, Tracing Paper, and Tracing Cloth.
Claims use since Nov. 19, 1921.

Ser. No. 169,483. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Sept. 15, 1922.

GOODYEAR

The mark consists of the word "Goodyear."
Particular description of goods.—Automobiles and Motor Trucks, Vehicle Rims, Motor-Driven Balloons, Free Balloons, Kite Balloons, Balloon Fabric, Balloon Valves, Covers for Aeroplane and Balloon Fuel Tanks, and Aerostat Accessories.
Claims use since May, 1911, on balloons, aerostats, and parts and accessories thereof; since 1906 on vehicle rims; since Feb. 26, 1920, on automobiles and motor trucks.

Ser. No. 170,571. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EVERETT, HEANEY & CO. INC., New York, N. Y. Filed Oct. 11, 1922.

QUEEN

Particular description of goods.—Cotton Print Cloth in the Piece.
Claims use since 1902.

Ser. No. 170,696. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LUDWIG SELLMAYER, doing business as L. Sellmayer & Sons, Baltimore, Md. Filed Oct. 13, 1922.

ARROW BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Lard and Lard Substitutes and Compounds.
Claims use since January, 1908.

Ser. No. 171,459. (CLASS 32. FURNITURE AND UPHOLSTERY.) HEYWOOD-WAKEFIELD COMPANY, Gardner, Mass. Filed Nov. 1, 1922.

H-W

Particular description of goods.—Bookcases, Bedsteads, Buffets, Bureaus, Chiffoniers; Chairs of Wood, Iron, and Steel—Namely, Household Chairs, Bank, Office, and Typewriter Chairs, Morris Chairs, Chapel Chairs, Folding and Portable Chairs, Tablet Armchairs, Beach Chairs, Motor-Boat Chairs, Opera Chairs, Assembly-Hall Chairs, and Children's High Chairs with or without Combination Table Attachments; Couches, Cradles; Desks of Wood, Iron, and Steel; School Desks of the Same Materials and School Desks Involving in Combination Therewith a Chair or Seat, Footstools, Flower Stands, Hat-Trees; Settees of Wood, Iron, and Steel; Sideboards and Serving Tables, Tables for General Household and Office Use, Tea Wagons, Umbrella Stands in Wood and Reed.
Claims use since Oct. 1, 1922.

Ser. No. 171,662. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed Nov. 6, 1922.

STANOLENE

Particular description of goods.—Petroleum Jelly to Be Used for Lubricating Purposes, not for Medicinal Purposes.
Claims use since January, 1922.

Ser. No. 172,333. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INWOOD FRUIT GROWERS CLUB, Inwood, W. Va. Filed Nov. 21, 1922.

JOHNNY APPLESEED BRAND
APPLES

The words "Brand" and "Apples" are hereby disclaimed apart from the other features of the mark.
Particular description of goods.—Fresh Apples.
Claims use since September, 1920.

Ser. No. 172,806. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) M. H. ROSENBERG & CO., New York, N. Y. Filed Dec. 1, 1922.

Linettine

The drawing is lined to represent shading only.
Particular description of goods.—Cotton Piece Goods.
Claims use since Nov. 1, 1922.

Ser. No. 173,212. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE E. B. ROSE CO., East Stroudsburg, Pa. Filed Dec. 11, 1922.

ROSE BUD

The drawing is lined for the color yellow.
Particular description of goods.—Washing Powder.
Claims use since Oct. 1, 1922.

Ser. No. 173,332. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LIJM-EN-GELATINEFABRIEK-DELFT, Delft, Netherlands. Filed Dec. 14, 1922.

delft gelatine works delft holland

The geographical term "Delft, Holland," is disclaimed apart from the other features of the mark shown in the drawing.
Particular description of goods.—Gelatin Used as a Food or as Ingredient of Foods.
Claims use since Nov. 19, 1920.

Ser. No. 173,697. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ABRAHAM L. BOYD, Sacramento, Calif. Filed Dec. 22, 1922.



The words "Trade-Mark" and Hoarhound Candy" and "1117 19th St." and "Sacramento, Cal.," are not claimed apart from the mark as shown on the drawing.

Particular description of goods.—Candies and Other Sugar Products.

Claims use since 1897.

Ser. No. 174,164. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ARNOLD, CHENEY & CO., INC., New York, N. Y. Filed Jan. 4, 1923.



Particular description of goods.—Cotton Piece Goods.

Claims use since about December, 1908.

Ser. No. 174,411. (CLASS 39. CLOTHING.) J. SAMUELS AND BROTHER, INCORPORATED, Providence, R. I. Filed Jan. 10, 1923.

"BUDDIBOY"

Particular description of goods.—Suits, Overcoats, Sweaters, Hats, and Caps, All for Boys.

Claims use since Dec. 28, 1922.

Ser. No. 174,441. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GUDE BROTHERS, KIEFFER COMPANY, New York, N. Y. Filed Jan. 11, 1923.

Royal

Particular description of goods.—Butter.

Claims use since 1890.

Ser. No. 174,662. (CLASS 39. CLOTHING.) SAMUEL KANNER, doing business as Kanner Skirt Co., New York, N. Y. Filed Jan. 16, 1923.

Kanner Skirt Co.
THE LIVE WIRE HOUSE

Particular description of goods.—Skirts.

Claims use since May 10, 1922.

Ser. No. 174,874. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALEXANDRE RANNOU & CIE., Marseille, France. Filed Jan. 22, 1923.



No claim made to the following: "Brand, Dattes Muscades, Alexandre Rannou & Cie., Marseille" apart from the mark shown in the drawing.

Particular description of goods.—Dates.

Claims use since Nov. 1, 1913.

Ser. No. 175,270. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ELBERT C. ROBERTS, doing business as E. C. Roberts Chemical Company, Newport News, Va. Filed Jan. 29, 1923.

WHITE WHITE
"DOUBLE-WHITE"

Particular description of goods.—General Household Cleansing Preparation, Laundry Soap, and Soap Chips.

Claims use since Nov. 29, 1922.

Ser. No. 175,294. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) C. J. BATES & SON, Chester, Conn. Filed Jan. 30, 1923.

Black Beauty

Particular description of goods.—Manicure Files.

Claims use since Dec. 1, 1922.

Ser. No. 175,611. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES MADISON, San Francisco, Calif. Filed Feb. 6, 1923.

MADISON'S IDEAL

Particular description of goods.—Canned Fish—Namely, Sardines, Salmon, and Tuna Fish.

Claims use since Jan. 26, 1923.

Ser. No. 175,773. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PAUL DE LANEY CO. INC., Brocton, N. Y. Filed Feb. 9, 1923.

ROOF GARDEN

Particular description of goods.—Fruit Jams, Fruit Preserves, Fruit Jellies, Fruit Marmalades, Apple Butter, Peanut Butter, Tomato Catchup, Chili Sauce, Prepared Mustard, Sweet Pickle Relish; Tasty-Topping, a Preparation Used for Topping Cakes, Composed of Maple Sugar and Fruits; and Canned Pork and Beans.

Claims use since March, 1922.

Ser. No. 175,934. (CLASS 39. CLOTHING.) LITEWEAR MANUFACTURING COMPANY, Montgomery, Ala. Filed Feb. 12, 1923.

LITEWEAR

Particular description of goods.—Men's and Boys' Underwear of Textile Materials.

Claims use since Jan. 2, 1923.

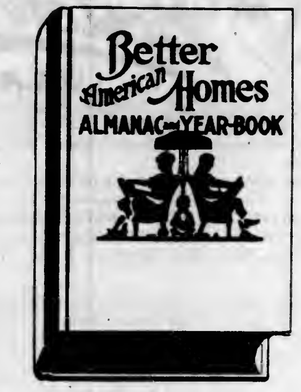
Ser. No. 176,085. (CLASS 39. CLOTHING.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed Feb. 15, 1923.

MIAMI

Particular description of goods.—Clothing.

Claims use since August, 1922.

Ser. No. 176,269. (CLASS 38. PRINTS AND PUBLICATIONS.) CLYDE A. MANN, Chicago, Ill. Filed Feb. 19, 1923.



Particular description of goods.—Almanac and Yearbook.

Claims use since Nov. 10, 1922.

Ser. No. 176,393. (CLASS 39. CLOTHING.) WOODWARD & BOWMAN, Norwood, Mass. Filed Feb. 20, 1923.



LITTLE CHERUB

Particular description of goods.—Children's Wearing Apparel—Namely, Creepers, Rompers-Suits, and Dresses Made in Wash Silk and Woolen Fabrics.

Claims use since June 1, 1922.

Ser. No. 176,585. (CLASS 39. CLOTHING.) F. VOGEL'S SON AND COMPANY, Chicago, Ill. Filed Feb. 24, 1923.

Busy Hour Apron

The word "Apron" is disclaimed apart from the mark shown.

Particular description of goods.—Aprons, Dresses.

Claims use since Feb. 15, 1922.

Ser. No. 176,688. (CLASS 39. CLOTHING.) PADIN BROTHERS, New York, N. Y. Filed Feb. 27, 1923.

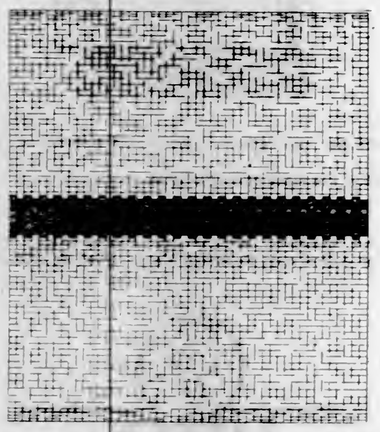
Boston U.S.A.

No claim made to the words "Boston" and "U. S. A." apart from the mark shown.

Particular description of goods.—Dress, Negligee, and Work Shirts.

Claims use since on or about Jan. 1, 1921.

Ser. No. 176,873. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) WM. & CHAS. BECK, INC., Lawrence, Mass. Filed Mar 3, 1923.

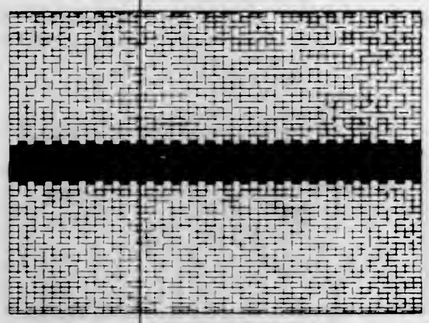


Trade-mark consists of a color line longitudinally disposed upon the goods, incorporated in the fabric, and comprising a central blue stripe bordered on each side by a stripe of alternating black and yellow.

Particular description of goods.—Linen Fire Hose.

Claims use since 1898.

Ser. No. 176,875. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) WM. & CHAS. BECK, INC., Lawrence, Mass. Filed Mar. 3, 1923.



The mark consists of a color line longitudinally disposed upon the goods, incorporated in the fabric, and comprising a central blue stripe bordered at each side by a black stripe.

Particular description of goods.—Linen Fire Hose.

Claims use since 1898.

Ser. No. 177,103. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE NUNNALLY COMPANY, Atlanta, Ga. Filed Mar. 7, 1923.

GOLD BOX

No claim is made to the representation of a box made of gold or colored gold.

Particular description of goods.—Candies.

Claims use since Feb. 15, 1923.

Ser. No. 177,134. (CLASS 38. PRINTS AND PUBLICATIONS.) RICHARD LITOLFF, doing business as Henry Litolff's Verlag, Brunswick, Germany. Filed Mar. 8, 1923.



The mark consists of a black border of rectangular section in which is arranged a white border of the same section. In center there is a background with two sixteenth notes in white. Between the notes is arranged the capital letter "L" in white.

Particular description of goods.—Sheet Music and Music Books.

Claims use since Nov. 11, 1913.

Ser. No. 177,191. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MOTOR WHEEL CORPORATION, Lansing, Mich. Filed Mar. 9, 1923.

Tuarc

Particular description of goods.—Wheels for Automobile Vehicles.

Claims use since May 21, 1921.

Ser. No. 177,408. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM G. ROE, Winter Haven, Fla. Filed Mar. 13, 1923.



The word "Brand" does not form a part of the registration sought apart from the mark shown in the drawing.

Particular description of goods.—Fresh Citrous Fruits.

Claims use since Dec. 29, 1922.

Ser. No. 177,690. (CLASS 39. CLOTHING.) PURITAN KNITTING MILLS, Philadelphia, Pa. Filed Mar. 19, 1923.



Puritan

Particular description of goods.—Sweaters, Scarfs, Bathing Suits, Bathing Shirts, and Bathing Trunks.

Claims use since September, 1910.

Ser. No. 177,949. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) C. B. BARKER & CO. LTD., New York, N. Y. Filed Mar. 24, 1923.



No claim is herein made for the phrase "Cold Compressed Machine Needles" apart from the mark as otherwise shown.

Particular description of goods.—Sewing-Machine Needles and Machine Knitting Needles.

Claims use since Jan. 1, 1903.

Ser. No. 177,999. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ROBERTSON, STELLING CORPORATION, New York, N. Y. Filed Mar. 24, 1923.



Particular description of goods.—Automobiles, Automobile Chassis, and Automobile Accessories.

Claims use since Feb. 1, 1923.

Ser. No. 178,158. (CLASS 37. PAPER AND STATIONERY.) JULIUS BAUMGARTEN & SÖHNE VEREINIGTE PAPIERWARENFABRIKEN KOMMANDITGESELLSCHAFT, Vienna, Austria. Filed Mar. 28, 1923.

IBUS

Particular description of goods.—Letter Papers and Envelopes, Either Single or Made Up in Pads and Folders, Crape Paper.

Claims use since Apr. 1, 1919.

Ser. No. 178,617. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LAMINATED SHIM COMPANY, INC., Long Island City, N. Y. Filed Apr. 5, 1923.

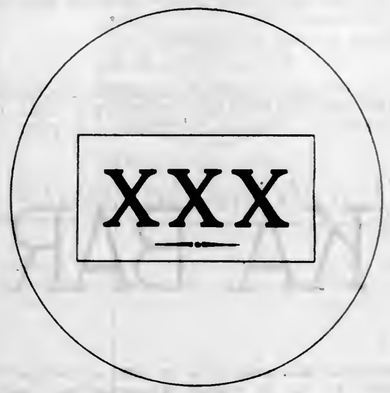
LAMINUM-KIT

Trade-mark "Laminum."

Particular description of goods.—Shims and Shim Stock.

Claims use since Dec. 5, 1922.

Ser. No. 178,768. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ATTILIO PIERINI, doing business as Great Northern Fur Dyeing and Dressing Company, Brooklyn, N. Y. Filed Apr. 7, 1923.



Particular description of goods.—Raw and Dressed Skins and Pelts.

Claims use since Jan. 1, 1923.

Ser. No. 179,044. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JATH'S CAMPHORUB COMPANY, Omaha, Nebr. Filed Apr. 12, 1923.

JATH'S CAMPHORUB COMPOUND

No claim made to the exclusive right to use the words "Camphorub" and "Compound" except as shown, no common-law rights to these words being waived.

Particular description of goods.—Medicinal Compound to be Used Externally by Applying Locally in Cases of Colds, Bronchitis, Pneumonia, and for Aches and Pains, and Otherwise Generally in Cases of Inflammation and Congestion.

Claims use since Jan. 1, 1923.

Ser. No. 179,251. (CLASS 39. CLOTHING.) JACOB WISHNEVITZ, New York, N. Y. Filed Apr. 16, 1923.

J W System

Particular description of goods.—Boys' and Men's Suits and Overcoats.

Claims use since Jan. 1, 1923.

Ser. No. 179,341. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNION CUTLERY CO. INC., Olean, N. Y. Filed Apr. 18, 1923.

KA-BAR

Particular description of goods.—Knives Designed Particularly for Use by Hunters, Fishermen, and Campers, and Pocketknives, Pruning Knives, Butcher Knives, Paring Knives, Razors, and Shears.

Claims use since Jan. 1, 1923.

Ser. No. 179,360. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) COMMONWEALTH COLOR & CHEMICAL CO., Brooklyn, N. Y. Filed Apr. 19, 1923.

Particular description of goods.—Paint Colors—Namely, Oil, Water or Spirit Soluble Colors, Aniline and Coal-Tar Colors, Snythetic Indigo, Alizarine Colors, Material for Maintaining Color Pigment in Suspension in Ready-Mixed Paints, Sizings for Use in Oil Finishes, Wood Finishes, Undercoating for Metallic Paints, Dry and Paste Pigments, Driers, and Wood Stains.

Claims use since July 1, 1911.

Ser. No. 179,366. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARY FRASER CANDIES, INC., doing business as Mary Fraser Candy Studio, Los Angeles, Calif. Filed Apr. 19, 1923.

Mary Fraser

Particular description of goods.—Candies.

Claims use since about July 27, 1922.

Ser. No. 179,429. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THEO. B. ROBERTSON PRODUCTS COMPANY, Chicago, Ill. Filed Apr. 20, 1923.



Particular description of goods.—Soap.

Claims use since 1901.

Ser. No. 179,448. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MICHELE AJELLO CO. INC., Brooklyn, N. Y. Filed Apr. 21, 1923.

PAGLIAGGIO

Particular description of goods.—Canned Olive Oil.

Claims use since June 28, 1916.

Ser. No. 179,511. (CLASS 31. FILTERS AND REFRIGERATORS.) THE ARIDOR COMPANY, Chicago, Ill. Filed Apr. 23, 1923.

ARIDOR

Particular description of goods.—Air Conditioning and Cooling Devices for Use in Show Cases or Other Containers for Food or Other Products, and Said Containers Equipped with Such Devices.

Claims use since Aug. 3, 1922.

Ser. No. 179,520. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CUMPSON-DOELMAN, INC., Buffalo, N. Y. Filed Apr. 23, 1923.

KREAMO BRAND

The word "Brand" does not form a part of the registration sought apart from the mark shown in the drawing.

Particular description of goods.—Canned Vegetables, Tomato Catchup, Cocoa, Rice, Tapioca, Barley, Split Peas, and Popping Corn in its Natural State.

Claims use since June, 1907.

Ser. No. 179,580. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BANTAM PRODUCTS LTD., Farnley, Leeds, England. Filed Apr. 24, 1923.

BANTAM

Particular description of goods.—Tea and Coffee.

Claims use since Jan. 29, 1916.

Ser. No. 179,586. (CLASS 5. ADHESIVES.) COLONIAL WORKS, Brooklyn, N. Y. Filed Apr. 24, 1923.

ADHESIUM

The lining for color appearing on the drawing indicates red. The mark is usually printed in accordance therewith.

Particular description of goods.—Wall-Paper Size.

Claims use since about August, 1897.

Ser. No. 179,724. (CLASS 39. CLOTHING.) HEIDELBERG, WOLFF & CO., New York, N. Y. Filed Apr. 26, 1923.

"Aquasol"

REGISTERED N Y EXCELLED BY NONE

Stormproofed

Applicant disclaims any exclusive right to the words "Storm Proofed" apart from the mark as shown for the purpose only of this registration, no common-law right to the said words being waived by applicant. Applicant disclaims any exclusive rights to the words "Excelled by None" apart from the mark as shown without waiving any common-law rights to which applicant may be entitled and without prejudice to any other application of applicant granted, pending, or to be filed.

Particular description of goods.—Overcoats, Topcoats, Raincoats, Sport Coats, Sport Suits, Golf Suits, and Waterproofed Outer Garments.

Claims use since on or about Feb. 1, 1923.

Ser. No. 179,726. (CLASS 39. CLOTHING.) HEIDELBERG, WOLFF & CO., New York, N. Y. Filed Apr. 26, 1923.

Duoteks Coatings

N Y EXCELLED BY NONE

WOVEN OF FINE Australian Wool

Applicant disclaims any exclusive right to the words "Coatings" and "Woven of Fine Australian Wool" apart from the mark as shown on the drawing. Applicant disclaims any exclusive rights to the words "Excelled by None" apart from the mark as shown without waiving any common-law rights to which applicant may be entitled and without prejudice to any other application of applicant granted, pending, or to be filed.

Particular description of goods.—Overcoats, Raincoats, Smoking Jackets, House Coats, Norfolk Jackets, Topcoats, Golf Suits, and Sport Suits.

Claims use since January, 1887.

Ser. No. 179,810. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) THE J. S. MCCORMICK COMPANY, Pittsburgh, Pa. Filed Apr. 27, 1923.

LION BINDER

No claim made to the word "Binder" apart from the name "Lion."

Particular description of goods.—Core Binder for Pasting Cores or for Making Facing Sand, Either Dried or Green, or for Mixing with Core Wash and Silica Wash, or for Making Sand Cores in Connection with the Use of Other Liquid or Dry Materials, or for Making Dough Rolls in Foundry Practice.

Claims use since about Apr. 4, 1918.

Ser. No. 179,883. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FREDERICK MORRISON PIKE, doing business as Mount Mansfield Maple Merchants, Stowe, Vt. Filed Apr. 28, 1923.

The Sweetest Story Ever Told

=

By A. MAPLE TREE

Published by
Mt. Mansfield Maple Merchants
Stowe, Vermont

No claim is made to the exclusive use of the words "Stowe, Vermont" apart from the mark as shown in the drawing.

Particular description of goods.—Maple Sugar.

Claims use since Apr. 9, 1923.

Ser. No. 179,905. (CLASS 32. FURNITURE AND UPHOLSTERY.) CLYDE W. WARREN, doing business as Automatic Curtain Co., Sauk Rapids, Minn. Filed Apr. 28, 1923.

IDEAL PORCH SHADES

No claim made to the words "Porch Shades" found therein.

Particular description of goods.—Porch Shades.

Claims use since Nov. 1, 1913.

Ser. No. 179,907. (CLASS 32. FURNITURE AND UPHOLSTERY.) CLYDE W. WARREN, doing business as Automatic Curtain Co., Sauk Rapids, Minn. Filed Apr. 28, 1923.

WORTHMORE PORCH SHADE

No claim made to the words "Porch Shades" found therein.

Particular description of goods.—Porch Shades.

Claims use since Oct. 1, 1922.

Ser. No. 179,931. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE EVANSVILLE PACKING COMPANY, Evansville, Ind. Filed Apr. 30, 1923.

Smile-a-boy

Particular description of goods.—Hams, Bacon, Sausage, Lard, Butter, Eggs, and Dressed Poultry.

Claims use since Aug. 12, 1922.

Ser. No. 179,979. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) WHITING & DAVIS COMPANY, Plainville, Mass. Filed Apr. 30, 1923.

Dansant

Particular description of goods.—Mesh Bags Made of Precious Metals.

Claims use since December, 1922.

Ser. No. 180,035. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELWIN C. WEBBER, doing business as Webber and Company, Los Angeles, Calif. Filed May 1, 1923.

Ra-Zin

Particular description of goods.—Confection Consisting of Two Sugar Wafers or Cakes with a Filling of Creamed Sugar Containing Ground Fruit Interposed to Form a Sandwich.

Claims use since Apr. 18, 1923.

Ser. No. 180,095. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE BISHOP & BABCOCK COMPANY, Cleveland, Ohio. Filed May 3, 1923.

AQUASTAT

Particular description of goods.—Thermostatic Regulating or Control Valves.

Claims use since about Jan. 1, 1923.

Ser. No. 180,191. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) PIONEER SUSPENDER COMPANY, Philadelphia, Pa. Filed May 4, 1923.

PIONEER

Particular description of goods.—Belt Buckles of Precious or in Part Precious Metal.

Claims use since prior to 1914.

Ser. No. 180,272. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CORN PRODUCTS REFINING COMPANY, New York, N. Y. Filed May 7, 1923.



No claim is made to the exclusive use of the wording, with the exception of the words "Argo" and "Corn Products Refining Company" apart from the mark shown in the drawing, the colors ochre yellow and brown shown on the specimens being claimed as features of the mark.

Particular description of goods.—Edible Oil.

Claims use since Apr. 10, 1923.

Ser. No. 180,368. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) FERDINAND EGLINGTON, Walsall, England. Filed May 9, 1923.

STEGALITE

Particular description of goods.—Bits, Stirrups, Spurs, Buckles, and Harness Furniture.

Claims use since Jan. 4, 1923.

Ser. No. 180,385. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) PACKARD MOTOR CAR COMPANY, Detroit, Mich. Filed May 9, 1923.

LUCK STONE

Particular description of goods.—Tire Covers.

Claims use since early in the year 1919.

Ser. No. 180,415. (CLASS 39. CLOTHING.) SIMON BLUM, INCORPORATED, New York, N. Y. Filed May 10, 1923.



No claim is made for registration of the words "Brand" and "Sheeplined Clothing" apart from the mark as shown.

Particular description of goods.—Men's and Boys' Sheep-Lined Coats and Vests.

Claims use since January, 1922.

Ser. No. 180,445. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MUDGE & COMPANY, Chicago, Ill. Filed May 10, 1923.

"Hill Climber"

Particular description of goods.—Railway Gasoline Motor Cars.

Claims use since Feb. 5, 1915.

Ser. No. 180,448. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MUDGE & COMPANY, Chicago, Ill. Filed May 10, 1923.

"Power Queen"

Particular description of goods.—Railway Gasoline Motor Cars.

Claims use since Feb. 5, 1915.

Ser. No. 180,451. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MUDGE & COMPANY, Chicago, Ill. Filed May 10, 1923.

"Wonder-Pull"

Particular description of goods.—Railway Gasoline Motor Cars.

Claims use since Feb. 1, 1916.

Ser. No. 180,463. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich. Filed May 11, 1923.

Lacto-Dextrin

Particular description of goods.—A Special Carbohydrate Antitoxic Food.

Claims use since June 18, 1921.

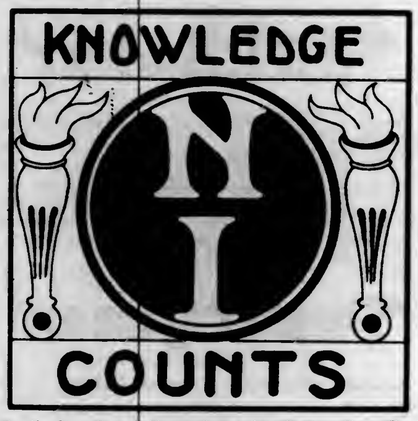
Ser. No. 180,481. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MALVAZ MALT EXTRACT COMPANY, Chicago, Ill. Filed May 11, 1923.

MalVaz

Particular description of goods.—Malt Extracts for Food Purposes Only.

Claims use since May, 1919.

Ser. No. 180,488. (CLASS 38. PRINTS AND PUBLICATIONS.) THE NORTHERN INSTITUTE CO., Cleveland, Ohio. Filed May 11, 1923.



Particular description of goods.—Instruction Books, Pamphlets, or Folders as Publications Used and Sold in Connection with a Correspondence Course.
Claims use since Nov. 15, 1922.

Ser. No. 180,544. (CLASS 39. CLOTHING.) MAY HOSIERY MILLS, INC., Burlington, N. C. Filed May 12, 1923.



The drawing is lined for the color red. The name "B. V. May" is a facsimile signature. No claim is made to the verbal matter shown on the drawing, except the word "B. V. May" apart from the other features of the mark as shown.
Particular description of goods.—Hosiery.
Claims use since June 26, 1916.

Ser. No. 180,577. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) E. C. ATKINS & COMPANY, Indianapolis, Ind. Filed May 14, 1923.

ASP

Particular description of goods.—Rubber Belting.
Claims use since on or about Sept. 1, 1921.

Ser. No. 180,578. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) E. C. ATKINS & COMPANY, Indianapolis, Ind. Filed May 14, 1923.

ATKO

Particular description of goods.—Rubber Belting.
Claims use since on or about Sept. 1, 1921.

Ser. No. 180,726. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) UNITED CHEMICAL COMPANIES, Kansas City, Mo. Filed May 16, 1923.

KLEANABOL

Particular description of goods.—Preparation for Cleansing and Bleaching Toilet Bowls.
Claims use since Aug. 1, 1922.

Ser. No. 180,753. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EMMA E. CURTIS, Melrose, Mass. Filed May 17, 1923.

SMAC

Trade-mark "Smac."
Particular description of goods.—Semiliquid or Viscous Preparation for Use as a Frosting, Icing, Topping Sauce, or Filling for Desserts.
Claims use since April, 1920.

Ser. No. 180,807. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AUGUSTUS OEMLER, Savannah, Ga. Filed May 18, 1923.



No claim made to the word "Brand" apart from the mark, and the pictorial representation of the shrimp is disclaimed.
Particular description of goods.—Canned Shrimp.
Claims use since May 1, 1893.

Ser. No. 180,828. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BANKERS DISCOUNT CORPORATION, Astoria, Oreg. Filed May 19, 1923.

VISTA

Particular description of goods.—Canned Salmon.
Claims use since Mar. 1, 1923.

Ser. No. 180,836. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BRIGHTON CANNING COMPANY, Brighton, Iowa. Filed May 19, 1923.

Velvet Rose

Particular description of goods.—Catchup and Canned Vegetables.
Claims use since 1920.

Ser. No. 180,864. (CLASS 38. PRINTS AND PUBLICATIONS.) HANDIPAK COMPANY, Salt Lake City, Utah. Filed May 19, 1923.

HANDIPAK

The mark consists of the word "Handipak."
Particular description of goods.—Auto Road Maps.
Claims use since Mar. 19, 1923.

Ser. No. 180,878. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL PACKING CORPORATION, Ogden, Utah. Filed May 19, 1923.

NAPACO

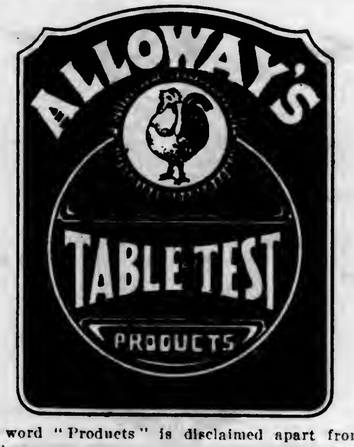
Particular description of goods.—Canned Vegetables, Canned Fruits, Canned Tomato Purée, and Tomato Catchup.
Claims use since Dec. 14, 1922.

Ser. No. 180,913. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE VLACHOS, New York, N. Y. Filed May 19, 1923.

OH BOY

Particular description of goods.—Preserved Figs, Sun-Dried Raisins, Shelled Nuts in Their Natural State and Salted Shelled Nuts, Preserved Fruits, and Preserved Dates.
Claims use since Dec. 15, 1922.

Ser. No. 181,100. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALLOWAY BROTHERS, Nashville, Tenn. Filed May 25, 1923.



The word "Products" is disclaimed apart from the mark shown.
Particular description of goods.—Butter, Live and Dressed Poultry, and Eggs.
Claims use since May 1, 1923.

Ser. No. 181,129. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KEYSTONE MACARONI MANUFACTURING COMPANY, Lebanon, Pa. Filed May 25, 1923.

CLEEN-MADE



The exclusive use of the words "Clean-Made" and "Key to Health and Economy" is disclaimed apart from the other features of the mark.
Particular description of goods.—Macaroni Products.
Claims use since Mar. 1, 1922.

Ser. No. 181,131. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KEYSTONE MACARONI MANUFACTURING COMPANY, Lebanon, Pa. Filed May 25, 1923.

POT-PIE

Particular description of goods.—Macaroni Products.
Claims use since Mar. 1, 1922.

Ser. No. 181,132. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KEYSTONE MACARONI MANUFACTURING COMPANY, Lebanon, Pa. Filed May 25, 1923.

ROLLETTS

Particular description of goods.—Macaroni Products.
Claims use since Mar. 1, 1922.

Ser. No. 181,133. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KEYSTONE MACARONI MANUFACTURING COMPANY, Lebanon, Pa. Filed May 25, 1923.

SOUP-GEMS

Particular description of goods.—Macaroni Products.
Claims use since Mar. 1, 1922.

Ser. No. 181,137. (CLASS 39. CLOTHING.) MERCURY MILLS, LIMITED, Hamilton, Ontario, Canada. Filed May 25, 1923.



Particular description of goods.—Clothing—Namely, Underwear of Knitted Fabric for Men, Women, and Children.
Claims use since February, 1913.

Ser. No. 181,246. (CLASS 39. CLOTHING.) JOSEPH H. COHEN & SONS, New York, N. Y. Filed May 28, 1923.



No rights are asserted to the exclusive use of the word "Clothes" apart from the trade-mark as shown in the drawing.
Particular description of goods.—Clothing for Men—Namely, Suits, Overcoats, Tuxedos, Full-Dress Suits, Trousers, and Sport Garments.
Claims use since Feb. 15, 1923.

Ser. No. 181,269. (CLASS 39. CLOTHING.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed May 28, 1923.

Suzanne

Particular description of goods.—Men's, Women's, and Children's Hosiery.
Claims use since Jan. 26, 1923.

Ser. No. 181,277. (CLASS 39. CLOTHING.) HARRINGTON & WARING, New York, N. Y. Filed May 28, 1923.



Particular description of goods.—Men's, Women's, and Children's Hosiery.
Claims use since Jan. 10, 1923.

Ser. No. 181,300. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MINNESOTA VALLEY CANNING COMPANY, Le Sueur, Minn. Filed May 28, 1923.

DEL MAIZ

Particular description of goods.—Canned Vegetables—Namely, Peas, Golden Wax Beans, Pumpkin, Refugee Beans, Lima Beans, Succotash, and Kraut.
Claims use since May 3, 1923.

Ser. No. 181,396. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRANK HINTON, Decatur, Ill. Filed May 31, 1923.

OH-BOY!

Particular description of goods.—Soap Paste.
Claims use since June 1, 1922.

Ser. No. 181,400. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HYGIENIC MANUFACTURING COMPANY, Chicago, Ill. Filed May 31, 1923.

IAMA

Particular description of goods.—Soaps.
Claims use since May 25, 1923.

Ser. No. 181,437. (CLASS 37. PAPER AND STATIONERY.) DULUTH PAPER AND STATIONERY CO., Duluth, Minn. Filed June 1, 1923.



Particular description of goods.—Crape Papers, Toilet Papers, Tablets, Notebooks, and Wrapping Papers.
Claims use since about 1910.

Ser. No. 181,518. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ERNEST A. EIBAND, New Braunfels, Tex. Filed June 4, 1923.

Valet Motor Cushion.

No claim made to the exclusive use of the words "Motor Cushion" apart from the mark as shown in the drawing.
Particular description of goods.—Cushion for Vehicles.
Claims use since Mar. 31, 1923.

Ser. No. 181,522. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FANSTEEL PRODUCTS COMPANY, INC., North Chicago, Ill. Filed June 4, 1923.

FANSTEEL

Particular description of goods.—Poppet Valves.
Claims use since July 8, 1918.

Ser. No. 181,526. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HORLICK'S MALTED MILK COMPANY, Racine Wis. Filed June 4, 1923.



Without waiver of its common-law rights applicant makes no claim to exclusive right in the words "Malted Milk."
Particular description of goods.—Malted Milk.
Claims use since about November, 1908.

Ser. No. 181,580. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ABRAHAM & STRAUS, INC., New York, N. Y. Filed June 6, 1923.

Snoflyer

Particular description of goods.—Bobsleds.
Claims use since Oct. 15, 1922.

Ser. No. 181,617. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ARTHUR SANDERSON & SONS LIMITED, London, England, Filed June 6, 1923.

ETON RURAL

Particular description of goods.—Cretonnes or Printed Fabrics, Being Cotton Piece Goods.
Claims use since Sept. 22, 1919.

Ser. No. 181,623. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) UNION CUTLERY CO. INC., Olean, N. Y. Filed June 6, 1923.

SPIKE

Trade-mark consists of the word "Spike."
Particular description of goods.—Razor Strops and Hones.
Claims use since June 21, 1921.

Ser. No. 181,664. (CLASS 39. CLOTHING.) ZURKOW & GRAFF, New York, N. Y. Filed June 7, 1923.



Particular description of goods.—Men's and Boys' Overcoats, Coats, Vests, and Trousers.
Claims use since Mar. 25, 1923.

Ser. No. 181,696. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) WILLIAM S. ORKIN, doing business as W. S. Orkin & Company, Boston, Mass. Filed June 8, 1923.



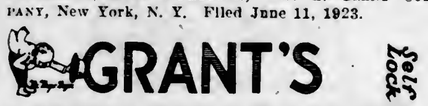
Particular description of goods.—Pearls.
Claims use since May 1, 1923.

Ser. No. 181,751. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACKSONVILLE CRACKER WORKS, Jacksonville, Fla. Filed June 9, 1923.

LIKITY SPLIT

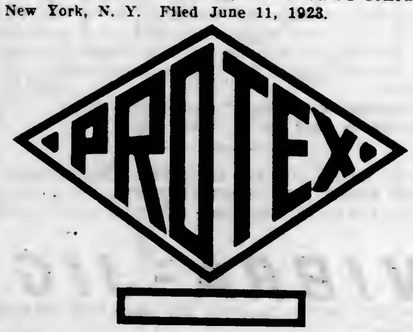
Particular description of goods.—Bakery and Confectionery Products—Namely, Cookies, Cakes, Crackers, and Candies.
Claims use since June 5, 1922.

Ser. No. 181,830. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) W. T. GRANT COMPANY, New York, N. Y. Filed June 11, 1923.



Exclusive use of the words "Self Lock" being disclaimed apart from the mark shown in the drawing. The figure is fanciful, and the lining is for shading only.
Particular description of goods.—Safety Pins.
Claims use since May 14, 1923.

Ser. No. 181,831. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) W. T. GRANT COMPANY, New York, N. Y. Filed June 11, 1923.



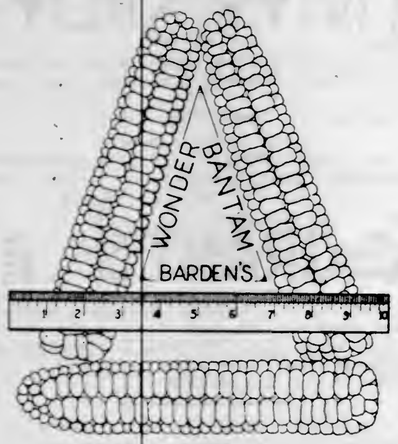
Particular description of goods.—Safety Pins.
Claims use since May 24, 1923.

Ser. No. 181,912. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALBERT SAULPAUGH, doing business as Saulpaughs Candy Kitchen, Catskill, N. Y. Filed June 12, 1923.



Particular description of goods.—Candy.
Claims use since Apr. 15, 1923.

Ser. No. 181,928. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CLIFFORD A. BARDEN, Oberlin and Wakeman, Ohio. Filed June 13, 1923.



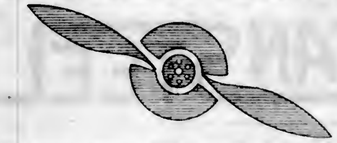
Applicant disclaims any use of an ear of corn or a rule as such except in the form as shown in the mark, and disclaims any exclusive use of the words "Wonder" and "Bantam" apart from the mark as shown in the drawing.
Particular description of goods.—Seed Corn.
Claims use since Feb. 1, 1922.

Ser. No. 181,929. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) R. H. BEAUMONT COMPANY, Philadelphia, Pa. Filed June 13, 1923.

VIBRA-JIG

No claim made to the word "Jig" apart from the mark as shown.
Particular description of goods.—Screens for Granular Materials.
Claims use since Apr. 21, 1923.

Ser. No. 181,996. (CLASS 15. OILS AND GREASES.) JAMES W. JAMESON, doing business as Jameson Oil Company, Los Angeles, Calif. Filed June 14, 1923.



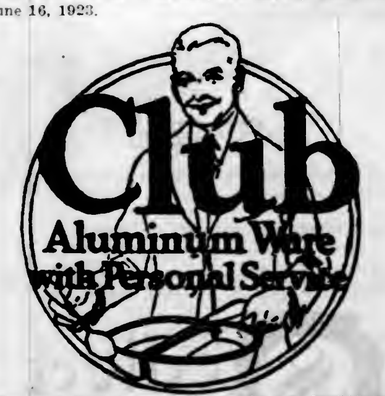
The word "Propello" is painted in red and the design in blue.
Particular description of goods.—Gasoline.
Claims use since Feb. 1, 1921.

Ser. No. 182,021. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) TRIDENT TRADERS, INC., New York, N. Y. Filed June 14, 1923.



Particular description of goods.—Animal Products—Namely, Wool, Hides, and Skins.
Claims use since May 1, 1923.

Ser. No. 182,087. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE CLUB ALUMINUM COMPANY, Cleveland, Ohio. Filed June 16, 1923.



The portrait being fanciful. The words "Aluminum Ware with Personal Service" are disclaimed except when used in association with other features of the mark.
Particular description of goods.—Aluminum Saucepans, Roasters, Casseroles, Waffle Molds, Pans, Fry Pans, Kettles, Teapots, Coffeepots, Teakettles, Bowls, Trays, and Dishes.
Claims use since Apr. 15, 1923.

Ser. No. 182,123. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) BARLEY MOTOR CAR COMPANY, Kalamazoo, Mich. Filed June 18, 1923.



The pennant design is blue with gold staff and cords, the concentric circles blue and gold, and the background old-ivory color.
Particular description of goods.—Taxicabs.
Claims use since Mar. 14, 1923.

Ser. No. 182,128. (CLASS 37. PAPER AND STATIONERY.) THE J. W. BUTLER PAPER CO., Chicago, Ill. Filed June 18, 1923.



Particular description of goods.—Envelopes and Paper for Making Envelopes.
Claims use since 1910.

Ser. No. 182,136. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) COLUMBIA TIRE CORPORATION, Portland, Oreg. Filed June 18, 1923.



Particular description of goods.—Pneumatic and Solid Rubber Tires for Automobiles and Rubber Inner Tubes for Pneumatic Tires.
Claims use since Apr. 30, 1923.

Ser. No. 182,223. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PICKANINNY COMPANY, Baltimore, Md. Filed June 19, 1923.

WINESAP

Particular description of goods.—An Emulsion of Pure Olive Oil and Raisin Juice.
Claims use since May 25, 1923.

Ser. No. 182,225. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH SETARO, Millbrook, N. Y. Filed June 19, 1923.



Particular description of goods.—A Dandruff Remedy and Hair Dressing.
Claims use since Apr. 15, 1923.

Ser. No. 182,237. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PERC EDWARDS, doing business as Standard Engineering & Lubricating Co., New York, N. Y. Filed June 20, 1923.



Particular description of goods.—Leather Lubricator or Dressing.
Claims use since Sept. 15, 1921.

Ser. No. 182,246. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE KEARNS COAL COMPANY, Cincinnati, Ohio. Filed June 20, 1923.



No claim is made to the word "Coal" apart from the other features of the mark.

Particular description of goods.—Coal.

Claims use since May 1, 1923.

Ser. No. 182,317. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REMINGTON SALT COMPANY, Ithaca, N. Y. Filed June 21, 1923.



Particular description of goods.—Salt.

Claims use since on or about March, 1919.

Ser. No. 182,332. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COLA GEMS COMPANY, Jacksonville, Fla. Filed June 22, 1923.

Cola Gems



Particular description of goods.—Candy.

Claims use since June 13, 1923.

Ser. No. 182,340. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT B. FRYE, Pueblo, Colo. Filed June 22, 1923.

DOG-GONE

Particular description of goods.—A Chemical Composition for Destroying Rodents and Other Animal Pests.

Claims use since 1902.

Ser. No. 182,372. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ASP FAYSOL COMPANY, New York, N. Y. Filed June 23, 1923.

GUARANTEED PURE BY MANUFACTURERS — ASP FAYSOL — ASP FAYSOL CO 97 WARREN ST. NEW YORK CITY

Particular description of goods.—Mud Salve and Mud Pack and Mud-Pack Beautifier (Being One Article of Manufacture).

Claims use since Jan. 17, 1923.

Ser. No. 182,375. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GRAHAM, ROWE & COMPANY, INC., New York, N. Y. Filed June 23, 1923.

E.N.I.A.

Particular description of goods.—Salt Cake.

Claims use since about Apr. 2, 1923.

Ser. No. 182,377. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SAMUEL L. HOFFMAN, doing business as S. L. Hoffman & Co., New York, N. Y. Filed June 23, 1923.

SECURITAN

Particular description of goods.—Ginghams in the Piece.

Claims use since Apr. 23, 1923.

Ser. No. 182,385. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE FRANCAISE DES PRODUITS DE BEAUTE, Paris, France. Filed June 23, 1923.

NEIGE DES CÉVENNES

Particular description of goods.—Perfumes, Toilet Water, Face Powder, Toilet Powder, Cold Cream, Face Lotion, Brilliantine, and Rouges.

Claims use since November, 1920.

Ser. No. 182,387. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) TAUNTON PEARL WORKS, INC., Taunton, Mass. Filed June 23, 1923.

PIONEER

Particular description of goods.—Cuff Buttons, Collar Buttons, Tie Holders, Soft-Collar Holders, Scarf Pins, Bar Pins, Cuff Pins, Lingerie Pins, Brooches for Personal Adornment, All of Which Are Made of or Plated with Precious Metal.

Claims use since Nov. 1, 1921.

Ser. No. 182,390. (CLASS 38. PRINTS AND PUBLICATIONS.) THE WORLD COLOR PRINTING COMPANY, St. Louis, Mo. Filed June 23, 1923.

SLIM JIM AND THE FORCE

Particular description of goods.—Title for Cartoons.

Claims use since Jan. 5, 1919.

Ser. No. 182,391. (CLASS 38. PRINTS AND PUBLICATIONS.) THE WORLD COLOR PRINTING COMPANY, St. Louis, Mo. Filed June 23, 1923.

THE KELLY KIDS

Particular description of goods.—Title for Cartoons.

Claims use since Jan. 5, 1919.

Ser. No. 182,407. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EVANS AND BARNHILL, INC., San Francisco, Calif. Filed June 25, 1923.



The representation of a gear is disclaimed apart from the mark shown on the drawing.

Particular description of goods.—Farming Implements—Namely, Tractors, Plows, Harrows, Cultivators, Scythes, Manure Spreaders, Hay Presses, Hay-Hoisting Machinery, and Parts Thereof.

Claims use since Jan. 1, 1923.

Ser. No. 182,420. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRY A. KESTING, Kansas City, Mo. Filed June 25, 1923.

Whiteflake

Particular description of goods.—Pop Corn in Its Natural State.

Claims use since May 20, 1923.

Ser. No. 182,439. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH A. PARR, Manchester, N. H. Filed June 25, 1923.

TU-LU

Particular description of goods.—A Medicinal Preparation for Cough, Sore Throat, Hoarseness, and Bronchial Affections.

Claims use since Mar. 25, 1923.

Ser. No. 182,501. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HIJOS DE YBARRA, Seville, Spain. Filed June 27, 1923.



"TANGO"

ACEITE PURO DE OLIVA HIJOS DE YBARRA SEVILLA (ESPAÑA)

Applicant does not claim the right to the exclusive use of the words "Aceite Puro de Oliva" or "Sevilla (España) apart from the mark as a whole.

Particular description of goods.—Olive Oil.

Claims use since Feb. 12, 1923.

Ser. No. 182,503. (CLASS 37. PAPER AND STATIONERY.) DUAL-USE COMPANY, Knoxville, Tenn. Filed June 27, 1923.

DUAL-USE

Particular description of goods.—Combined Letter Sheet and Advertising Folders, Displaying Written or Printed Matter.

Claims use since Feb. 1, 1922.

Ser. No. 182,530. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) AMBRITE PRODUCTS COMPANY, Centralia, Wash. Filed June 28, 1923.



No claim is made to the use of the words "Auto Polish" apart from the drawing as shown.

Particular description of goods.—A Cleaning and Polishing Compound for Automobiles, Pianos, Furniture, Metal, and Woodwork.

Claims use since May 10, 1923.

Ser. No. 182,612. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROGERS CANDY COMPANY, Meridian, Miss. Filed June 29, 1923.

BigBertha

Particular description of goods.—Candy.
Claims use since November, 1921.

Ser. No. 182,613. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROGERS CANDY COMPANY, Meridian, Miss. Filed June 29, 1923.

TWEENIE'S

Particular description of goods.—Candy.
Claims use since July 1, 1922.

Ser. No. 182,614. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROGERS CANDY COMPANY, Meridian, Miss. Filed June 29, 1923.

OMEGA

Particular description of goods.—Candy.
Claims use since July 1, 1922.

Ser. No. 182,618. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BEN F. SELLERS, Yakima, Wash. Filed June 29, 1923.



Particular description of goods.—Fresh Apples and Pears.
Claims use since Sept. 27, 1920.

Ser. No. 182,619. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE STANLEY WORKS, New Britain, Conn. Filed June 29, 1923. Under ten-year proviso.

STANLEY

Particular description of goods.—Butts, Hinges, Door Holders, Hasps, Latches, Fasts and Fasteners for Securing Window Sashes, Window Blinds, Shutters, and the Like; Stays for Doors, Windows, Lids, Desks, and Similar Articles; Ladder Joints; Handles for Doors, Drawers, Boxes, Chests, and Similar Articles; Pulls for Doors, Sashes, Screens, Chests, and Similar Articles; Bolts for Securing Doors, Windows, and the Like; Shutter Bars, Trapdoor Rings, Door Hangers, Sash and Screen Hangers; Lifts for Doors, Sashes, Screens, Chests, and Similar Articles; Transom Plates, Corner Irons, Door Rails, Bar Holders, Catches, Braces for Stiffening Corners, Stake Holders, T Plates, Staples, Hooks, Door Buttons, Floor Clips, Metal Washers, Rivet Burs; Springs for Doors, Windows; Box Strapping, Metal Fasteners for Wooden Joints, Metal Couplings for Door and Window Screens, Mending Plates; Brackets—Namely, a Fixture Used as a Support.
Claims use since 1870.

Ser. No. 182,632. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GOLDIE WEINSTEIN, doing business as Goldie Fruittine Co., New York, N. Y. Filed June 29, 1923.



Particular description of goods.—A Beverage Consisting of a Composition of Dried Fruits and Nuts Suitable as a Substitute for Coffee.
Claims use since June 5, 1922.

Ser. No. 182,645. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ASSOCIATED FRUIT CO., Los Angeles, Calif. Filed June 30, 1923.

RED ROOSTER



Particular description of goods.—Fresh Grapes, Citrous Fruits, and Cantaloupes.
Claims use since June 1, 1923.

Ser. No. 182,651. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CANTERBURY CANDY MAKERS, INC., Seattle, Wash. Filed June 30, 1923.



Particular description of goods.—Candy Confections.
Claims use since June 1, 1923.

Ser. No. 182,673. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) RENOVATOL COMPANY, Philadelphia, Pa. Filed June 30, 1923.

BANDS-OL

Particular description of goods.—Preparation Adapted to be Applied to Brake Bands, Brake Drums, Clutches, Belts, Pulleys, and Other Frictionally-Operated Devices for the Purpose of Lessening or Preventing Slippage Between the Coacting Parts.
Claims use since on or about Apr. 25, 1923.

Ser. No. 182,685. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VAN CAMP SEA FOOD COMPANY, Los Angeles, Calif. Filed June 30, 1923.

Endorsed

Particular description of goods.—Canned Olives, Canned Grapefruit, Canned Pimientos, Canned Spinach.
Claims use since Nov. 1, 1922.

Ser. No. 182,686. (CLASS 39. CLOTHING.) WALLERSTEIN BROS., Paducah, Ky. Filed June 30, 1923.



The words "Clothes," "Wallersteins," and "Paducah, Ky." are disclaimed apart from the mark shown.
Particular description of goods.—Men's, Boys', and Children's Outer Clothing, Comprising Suits, Overcoats, and Raincoats.
Claims use since Nov. 15, 1922.

Ser. No. 182,731. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLIFFORD L. WESTON, doing business as C. L. Weston Co., Plainfield, N. J. Filed July 2, 1923.

JELLIBOON

Particular description of goods.—Pure-Fruit Jelly Compound.
Claims use since May 27, 1923.

Ser. No. 182,754. (CLASS 39. CLOTHING.) KEEDY, PFAFF & CO., INC., Baltimore, Md. Filed July 3, 1923.



The term "Hopkins Mills" is merely a fictitious or fanciful name which is used by the applicant as a trade-mark in connection with the sale of its merchandise.
Particular description of goods.—Knitted Underwear, Hosiery, and Knitted Neckties.
Claims use since Dec. 1, 1922.

Ser. No. 182,764. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) NATIONAL HAIR GOODS CO., New York, N. Y. Filed July 3, 1923.

The National Pyramid

Particular description of goods.—Wigs.
Claims use since May, 1923.

Ser. No. 182,770. (CLASS 39. CLOTHING.) RED MILL HOSIERY COMPANY, INC., Philadelphia, Pa. Filed July 3, 1923.



Particular description of goods.—Hosiery for Men and Women; Knitted and Textile Underwear for Men, Women, and Children; Sweaters, and Neckties.
Claims use since Apr. 1, 1923.

Ser. No. 182,771. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE RICHARDS-SCHEBLE CANDY CO., Hutchinson, Kans. Filed July 3, 1923.

Donita

Particular description of goods.—Candy.
Claims use since 1903.

Ser. No. 182,793. (CLASS 37. PAPER AND STATIONERY.) THE FAIR, Chicago, Ill. Filed July 5, 1923.

Lin-o-Type

Particular description of goods.—Writing Paper and Envelopes.
Claims use since on or about Dec. 26, 1922.

Ser. No. 182,855. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LEVER BROTHERS COMPANY, Cambridge, Mass. Filed July 6, 1923.

SPUNN

Particular description of goods.—Soap.
Claims use since Apr. 7, 1923.

Ser. No. 182,856. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JAMES H. RHODES & COMPANY, Chicago, Ill. Filed July 6, 1923.

BD

Particular description of goods.—Pumice Stone.
Claims use since June 20, 1917.

Ser. No. 182,857. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JAMES H. RHODES & COMPANY, Chicago, Ill. Filed July 6, 1923.

BBC

Particular description of goods.—Pumice Stone.
Claims use since June 20, 1917.

Ser. No. 182,858. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JAMES H. RHODES & COMPANY, Chicago, Ill. Filed July 6, 1923.

XXC

Particular description of goods.—Pumice Stone.
Claims use since June 20, 1917.

Ser. No. 182,891. (CLASS 37. PAPER AND STATIONERY.) THE STEVENS PAPER MILLS, INC., Windsor, Conn. Filed July 6, 1923.

FIBRE-TEX Board

No claim is made to the exclusive use of the word "Board" apart from the mark shown.
Particular description of goods.—Light-Weight Fiber Board.
Claims use since about March, 1923.

Ser. No. 182,893. (CLASS 37. PAPER AND STATIONERY.) THE STEVENS PAPER MILLS, INC., Windsor, Conn. Filed July 6, 1923.

DRAW-TEX Fibre Board

The words "Fibre Board" are disclaimed.
Particular description of goods.—Paper for Mechanical Drawings.
Claims use since about 1923.

Ser. No. 182,929. (CLASS 39. CLOTHING.) PARKER-BRIDGET COMPANY, Washington, D. C. Filed July 7, 1923.

PARGET

Particular description of goods.—Men's Hose.
Claims use since Mar. 1, 1921.

Ser. No. 182,986. (CLASS 39. CLOTHING.) CORA L. SCOVIL, New York, N. Y. Filed July 7, 1923.

Sunday Supper Apron

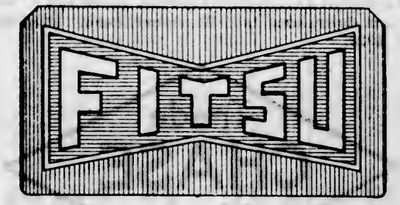
No claim is made to the use of the word "Apron" apart from the other features of the mark.
Particular description of goods.—Aprons.
Claims use since June 25, 1923.

Ser. No. 182,971. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) A. R. HOLDER, Abilene, Tex. Filed July 9, 1923.

TEXO

Particular description of goods.—Jelly Soap.
Claims use since Apr. 1, 1923.

Ser. No. 182,975. (CLASS 39. CLOTHING.) KEET & ROUNDTREE DRY GOODS CO., Springfield, Mo. Filed July 9, 1923.



The rectangular background of the mark is indicated in red, and the oppositely-flared configuration in the center is shown as having a blue background, the lettering remaining in white.
Particular description of goods.—Overalls, Work Shirts, Jumpers, Duck Coats, Khaki Coats, Corduroy Coats, Duck Pants, Khaki Pants, and Corduroy Pants.
Claims use since June 1, 1923.

Ser. No. 183,023. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARENCE A. CRANE, doing business as Crane Chocolate Company, Cleveland, Ohio. Filed July 10, 1923.

MEAL TICKET

Particular description of goods:—Candy.
Claims use since May 15, 1923.

Ser. No. 183,045. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed July 10, 1923.



The six Chinese characters appearing at the right-hand side of the picture have the following English equivalents and may be translated as follows: Lao, old; Pai, chop or brand; Ko, each or every; Tai, generation; Chuan, transmit; Ming, name. The three Chinese characters in the panel below the picture are: Mei, meaning admirable, lovely; Foo, to repose confidence in; Hong, business firm or company. The Chinese characters in the lower panel are, from right to left across the top line, Lao Pai, the two characters in the right-hand column below Lao are Mei Foo, and the two characters below Pai in the left-hand column are La Chu, meaning "wax candles;" the characters appearing on the plate held by the old man being also Lao Pai. No claim is made to the word "Candles" or to the Chinese words "La Chu," meaning "wax candles," apart from the mark shown on the drawing.
Particular description of goods.—Candles.
Claims use since Dec. 15, 1922.

Ser. No. 183,076. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CHARLES A. MEIGS, Fort Wayne, Ind. Filed July 11, 1923.

You Can't Be Optimistic With Misty Optics

MEIGS

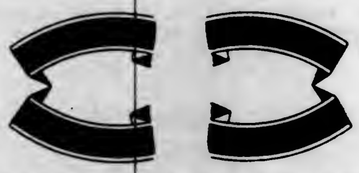
Particular description of goods.—Ophthalmic Lenses, Eyeglasses, and Spectacles.
Claims use since January, 1912.

Ser. No. 183,136. (CLASS 2. RECEPTACLES.) BUTTS & MILLER CO. INC., New York, N. Y. Filed July 13, 1923.

J.D.M.

Particular description of goods.—Egg and Poultry Cases.
Claims use since July 7, 1923.

Ser. No. 183,140. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) F. F. DALLEY COMPANY, INC., Buffalo, N. Y. Filed July 13, 1923.



Particular description of goods.—Shoe Polish and Dressing.
Claims use since about Aug. 20, 1902.

Ser. No. 183,200. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) F. F. DALLEY COMPANY, INC., Buffalo, N. Y. Filed July 14, 1923.



Particular description of goods.—Shoe Polish and Dressing.
Claims use since about Aug. 20, 1902.

Ser. No. 183,203. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE FARLEY HARVEY COMPANY, Boston, Mass. Filed July 14, 1923.



Particular description of goods.—Dry Goods—Namely, Linen and Cotton Cloths and Woolen Blankets.
Claims use since June 1, 1900.

Ser. No. 183,206. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE FARLEY HARVEY COMPANY, Boston, Mass. Filed July 14, 1923.



Particular description of goods.—Dry Goods—Namely, Linen and Cotton Cloths and Woolen Blankets.
Claims use since June 1, 1900.

Ser. No. 183,211. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE HIND & HARRISON PLUSH CO., Clark Mills and New York, N. Y. Filed July 14, 1923.

SYLVOTWILL

Particular description of goods.—Plushes in the Piece.
Claims use since June 27, 1923.

Ser. No. 183,237. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SERVICE EQUIPMENT CO., INC., New York, N. Y. Filed July 14, 1923.



Particular description of goods.—Sheetings and Pillowcases.
Claims use since about May 15, 1923.

Ser. No. 183,250. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE CHASE COMPANIES, INC., Waterbury, Conn. Filed July 16, 1923.



No claim is made to the words "Chase" and "Trade-Mark" apart from the mark shown.
Particular description of goods.—Brass Pipe.
Claims use since Apr. 27, 1923.

Ser. No. 183,263. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) J. EAVENSON & SONS INCORPORATED, Philadelphia, Pa., and Camden, N. J. Filed July 16, 1923.

JESCO

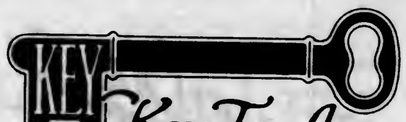
Particular description of goods.—Soap.
Claims use since Dec. 31, 1922.

Ser. No. 183,266. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FURST-MCNESS COMPANY, Freeport, Ill. Filed July 16, 1923.

LATHERO

Particular description of goods.—Hard-Water Soap.
Claims use since Aug. 22, 1912.

Ser. No. 183,309. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN A. MCDERMOTT, Chicago, Ill. Filed July 16, 1923.



Key To A
Good Complexion

Particular description of goods.—Soap.
Claims use since May 31, 1923.

Ser. No. 183,310. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WALTER E. MORGAN, doing business as Hold-Pack Mfg. Co., Dayton, Tenn. Filed July 16, 1923.

HOLD-PACK

Particular description of goods.—Metal Fasteners for Securing the Covers on Packing and Other Baskets Used in Packing Fruits and Vegetables.
Claims use since July 2, 1923.

Ser. No. 183,361. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CANDY SALES CORPORATION, Brooklyn, N. Y. Filed July 18, 1923.

CASCO SWEETS

Without waiving any common-law rights and for the purposes of this registration only applicant hereby disclaims the exclusive right to the use of the term "Sweets" appearing on the drawing except as this term is used in connection with the other features of the mark shown.
Particular description of goods.—Chocolate-Covered Mints, Chocolate-Covered Coconut Cream Bars, Chocolate-Covered Almond Bisque, Chocolate-Covered Coconut Cream Eggs, Chocolate-Covered Maple Rounders and Macaroon Mallo Bars.
Claims use since about Apr. 24, 1919.

Ser. No. 183,428. (CLASS 39. CLOTHING.) LAURA K. WHITBECK, Syracuse, N. Y. Filed July 18, 1923.



Particular description of goods.—Textile Underwear for Men, Women, and Children.
Claims use since June 23, 1923.

Ser. No. 183,449. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE JAMES H. HERRON COMPANY, Cleveland, Ohio. Filed July 19, 1923.

AL-U-ITE

Particular description of goods.—Welding Metal.
Claims use since Mar. 14, 1923.

Ser. No. 183,450. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE JAMES H. HERRON COMPANY, Cleveland, Ohio. Filed July 19, 1923.

FERRO-ITE

Particular description of goods.—Welding Metal.
Claims use since Feb. 3, 1923.

Ser. No. 183,451. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE KOPP BROS. CO., New Haven, Conn. Filed July 19, 1923.

SUN-E-ISLE

Particular description of goods.—Grape Fruit in Their Natural State.
Claims use since July 2, 1923.

Ser. No. 183,517. (CLASS 20. LINOLEUM AND OILED CLOTH.) CARTER DRY GOODS CO., Louisville, Ky. Filed July 21, 1923.

ACORN

Particular description of goods.—Linoleum and Oiled Cloth.
Claims use since June 7, 1909.

Ser. No. 183,526. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. JACOBS & SONS, INC., New York, N. Y. Filed July 21, 1923.

Mervolsheen

Particular description of goods—Sateen, Cotton, and Silk Mixed Piece Goods and Cotton Piece Goods with a Mercerized, Chased, or Schreinered Finish.
Claims use since June 2, 1923.

Ser. No. 183,546. (CLASS 2. RECEPTACLES.) WORTENDYKE MANUFACTURING CO., Richmond, Va. Filed July 21, 1923.

RADIUM

Particular description of goods.—Paper Bags.
Claims use since Oct. 28, 1922.

Ser. No. 183,556. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE CRAWFORD MCGREGOR & CANBY COMPANY, Dayton, Ohio. Filed July 23, 1923.

GO-SUM

Particular description of goods.—Golf Clubs.
Claims use since July 1, 1923.

Ser. No. 183,624. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DOUGLAS FAIRBANKS, Los Angeles, Calif. Filed July 24, 1923.

DOUG

Particular description of goods.—Racket Game.
Claims use since May 4, 1923.

Ser. No. 183,633. (CLASS 39. CLOTHING.) ROMBRO BROTHERS, Baltimore, Md. Filed July 24, 1923.

"PAL"

The color lining appearing on the drawing indicates red.
Particular description of goods.—Work Shirts.
Claims use since June 18, 1923.

Ser. No. 183,643. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE GEORGE H. BOWMAN COMPANY, Cleveland, Ohio. Filed July 25, 1923.

POLLY PERK



Particular description of goods.—Aluminum Percolators.
Claims use since July 8, 1923.

Ser. No. 183,662. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MUELLER METALS COMPANY, Port Huron, Mich. Filed July 25, 1923.

SANDCRAFT

Particular description of goods.—Castings of Non-ferrous Metals.
Claims use since on or about July 11, 1923.

Ser. No. 183,670. (CLASS 39. CLOTHING.) ROYAL UNDERWEAR COMPANY, Reading, Pa. Filed July 25, 1923.

Royaltex

Particular description of goods.—Women's Knitted Underwear.
Claims use since June 1, 1922.

Ser. No. 183,689. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SAM'L M. BLOCK, New York, N. Y. Filed July 26, 1923.

Cupid

Particular description of goods.—Hair Nets.
Claims use since May 1, 1922.

Ser. No. 183,795. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHIG MATERIALS.) JOHN A. FORD, Chicago, Ill. Filed July 28, 1923.

STENO-FRIEND

Particular description of goods.—Dry Cleaner.
Claims use since July 26, 1923.

Ser. No. 183,802. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ROBERTSON BLEACHERY & DYE WORKS, INCORPORATED, New Milford, Conn. Filed July 28, 1923.

GLORIELLE

The mark consists of the word "Glorielle."
Particular description of goods.—Cotton Piece Goods.
Claims use since about June 1, 1923.

Ser. No. 183,803. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ROBERTSON BLEACHERY & DYE WORKS, INCORPORATED, New Milford, Conn. Filed July 28, 1923.

GLOWSETTE

Trade-mark "Glowsette."
Particular description of goods.—Cotton Piece Goods.
Claims use since on or about July 3, 1923.

Ser. No. 183,833. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE HOSPITAL SPECIALTY CO., Cleveland, Ohio. Filed July 30, 1923.

FEMOTEX

Particular description of goods.—Sanitary Napkins.
Claims use since June 10, 1923.

Ser. No. 183,834. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) HOWE CHAIN COMPANY, Muskegon, Mich. Filed July 30, 1923.

XS

Particular description of goods.—Drive Chains.
Claims use since on or about Oct. 1, 1921.

Ser. No. 183,893. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed July 31, 1923.



The six Chinese characters across under the words "Standard Oil Co. of New York" are as follows: Yu Chi, meaning "gasoline"; Pai, meaning "brand"; Lao, meaning "old"; Che Chi, meaning "motor car". The three characters at the right and left of the foregoing reading from top to bottom are Mei, meaning "admirable, lovely"; Foo, meaning "to repose confidence in"; Hong, meaning "business firm or company", and the three characters in the circle at the top are Chi Che Pai. No claim is made to the words "Motor Spirits" or to the Chinese characters "Yu Chi, Che Chi," and "Che Chi Pai" apart from the mark shown on the drawing.
Particular description of goods.—Petroleum and Products of Petroleum, with or without Admixture of Other Materials, for Illuminating, Heating, Power, Burning, Lubricating, Greasing, Solvent, Sealing, Waxing, Waterproofing, Coating, Rust-Preventing, Surface-Preserving, and Tempering.
Claims use since July 11, 1923.

Ser. No. 183,896. (CLASS 37. PAPER AND STATIONERY.) THE TISSUE COMPANY, Saugerties, N. Y. Filed July 31, 1923.

LYN-KLOTH

Particular description of goods.—Paper Napkins.
Claims use since July 20, 1923.

Ser. No. 183,936. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE NELKE CORPORATION, Philadelphia, Pa. Filed Aug. 1, 1923.

DIGGELDY DAN

Particular description of goods.—Dolls.
Claims use since July 2, 1923.

Ser. No. 183,939. (CLASS 37. PAPER AND STATIONERY.) PENINSULAR PAPER COMPANY, Ypsilanti, Mich. Filed Aug. 1, 1923.

Publicity

Particular description of goods.—Cover Paper.
Claims use since Apr. 29, 1913.

Ser. No. 184,070. (CLASS 37. PAPER AND STATIONERY.) DRUGGISTS' SUPPLY CORPORATION, New York, N. Y. Filed Aug. 4, 1923.

"BOB WHITE"

Particular description of goods.—Pencils.
Claims use since June, 1922.

Ser. No. 184,100. (CLASS 7. CORDAGE.) THE PORTLAND CORDAGE CO., Portland, Oreg. Filed Aug. 4, 1923.

SKOOKUM

Particular description of goods.—Rope and Twine Made of Hard Fiber.
Claims use since March, 1918.

Ser. No. 184,144. (CLASS 39. CLOTHING.) THE NICHOLS UNDERWEAR CORPORATION, Bridgeport, Conn. Filed Aug. 6, 1923.

Slend-O-way

Particular description of goods.—Corsets, Brassières, Combination Corsets and Brassières, Drawers, Skirts, Corset Covers, Corset Waists, Combination Waists and Skirts, Combination Waists and Drawers, Nightgowns, Combination Corset Covers and Drawers, Combination Corset Covers and Skirts, Chemises, Combination Chemise and Drawers, Athletic Underwear, Envelop Drawers, Envelop Chemise, Bloomers, Princess Slips, Knickerbockers, Union Suits, Undershirts, Underdrawers, Pyjamas, and Rompers.
Claims use since on or about Sept. 1, 1921.

Ser. No. 184,155. (CLASS 39. CLOTHING.) ANDERSON HOSIERY MILLS, Anderson, S. C. Filed Aug. 6, 1923.



Particular description of goods.—Hosiery.
Claims use since July 14, 1923.

Ser. No. 184,218. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE STANLEY WORKS, New Britain, Conn. Filed Aug. 8, 1923.

814

Particular description of goods.—Hinges.
Claims use since 1887.

Ser. No. 184,219. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE STANLEY WORKS, New Britain, Conn. Filed Aug. 8, 1923.

5005

Particular description of goods.—Hinges.
Claims use since 1907.

Ser. No. 184,220. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE STANLEY WORKS, New Britain, Conn. Filed Aug. 8, 1923.

5017

Particular description of goods.—Hinges.
Claims use since 1907.

Ser. No. 184,222. (CLASS 39. CLOTHING.) THE THOS. P. TAYLOR CO., Bridgeport, Conn. Filed Aug. 8, 1923.



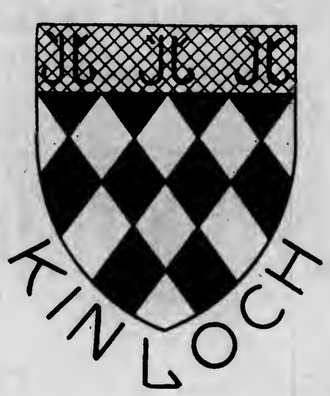
Trade-mark consists of a blue bar formed either by stamping with blue ink or by a row of parallel stitches close together and blue in color.
Particular description of goods.—Children's Waists and Underwear of Knitted or Textile Fabrics.
Claims use since Apr. 25, 1923.

Ser. No. 184,234. (CLASS 43. THREAD AND YARN.) NOAH CHERTOFF, New York, N. Y. Filed Aug. 9, 1923.



No claim is made to the words "Pure Dye," "Silk," "Silk Twist," and "New York" apart from the mark shown on the drawing.
Particular description of goods.—Silk Thread.
Claims use since January, 1923.

Ser. No. 184,241. (CLASS 39. CLOTHING.) S. L. GILBERT & CO. INC., New York, N. Y. Filed Aug. 9, 1923.



Particular description of goods.—Knitted Bathing Suits, Sweaters, Jackets, and Men's and Women's Scarfs.
Claims use since June 1, 1923.

Ser. No. 184,247. (CLASS 39. CLOTHING.) KORS BROS., New York, N. Y. Filed Aug. 9, 1923.

Sallyanne

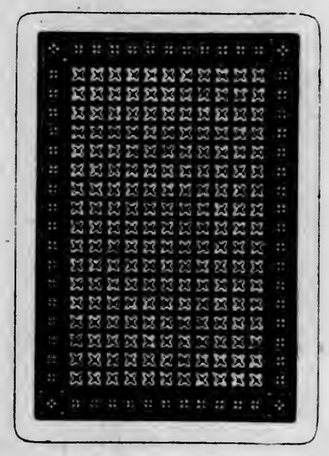
Particular description of goods.—Corsets, Brassières, and Underwear of Textile Fabric for Women.
Claims use since July 16, 1923.

Ser. No. 184,248. (CLASS 39. CLOTHING.) Kors Bros., New York, N. Y. Filed Aug. 9, 1923.

Wins=All

Particular description of goods.—Corsets, Brassières, and Underwear of Textile Fabric for Women.
Claims use since July 16, 1923.

Ser. No. 184,269. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed Aug. 9, 1923.



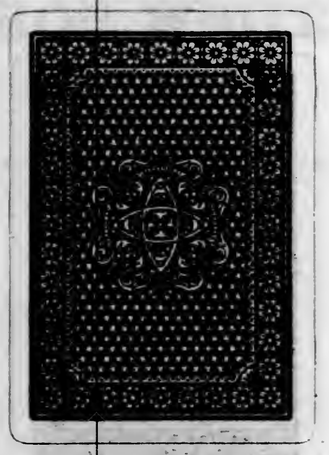
Particular description of goods.—Playing Cards.
Claims use since about 1890.

Ser. No. 184,270. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed Aug. 9, 1923.



Particular description of goods.—Playing Cards.
Claims use since about 1895.

Ser. No. 184,271. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed Aug. 9, 1923.



Particular description of goods.—Playing Cards.
Claims use since about 1890.

Ser. No. 184,294. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PORTAGE SHOE MFG. COMPANY, Portage, Wis. Filed Aug. 10, 1923.



Particular description of goods.—Shoe and Leather Preservative and Dressing.
Claims use since July, 1922.

Ser. No. 184,310. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE STICKEL COMPANY, INC., Rochester, N. Y. Filed Aug. 10, 1923.

Kurlash

Particular description of goods.—Eyelash Crimpers.
Claims use since May 16, 1923.

Ser. No. 184,313. (CLASS 39. CLOTHING.) WORTHY MANUFACTURING COMPANY, Chicago, Ill. Filed Aug. 10, 1923.

WESTMAKE

Particular description of goods.—Work Shirts.
Claims use since about May 12, 1922.

Ser. No. 184,334. (CLASS 17. TOBACCO PRODUCTS.) GENERAL TOBACCO COMPANY, Louisville, Ky., and Chicago, Ill. Filed Aug. 11, 1923.

L'INCONNU

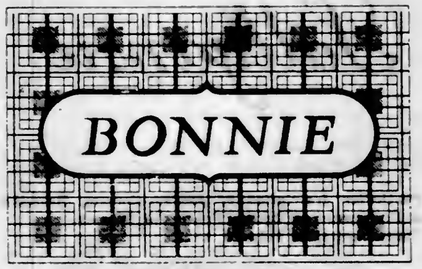
Particular description of goods.—Cigarettes, Cigars, and Smoking Tobacco.
Claims use since Nov. 15, 1922.

Ser. No. 184,336. (CLASS 17. TOBACCO PRODUCTS.) GENERAL TOBACCO COMPANY, Louisville, Ky., and Chicago, Ill. Filed Aug. 11, 1923.

CHURCHILL DOWNS

Particular description of goods.—Cigars, Smoking Tobacco, and Leaf Tobacco.
Claims use since Sept. 15, 1921.

Ser. No. 184,350. (CLASS 37. PAPER AND STATIONERY.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed Aug. 11, 1923.



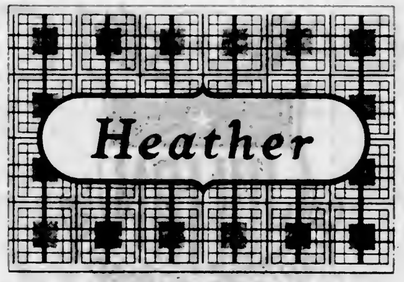
Particular description of goods.—Toilet Paper.
Claims use since Jan. 27, 1922.

Ser. No. 184,352. (CLASS 37. PAPER AND STATIONERY.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed Aug. 11, 1923.



Particular description of goods.—Toilet Paper.
Claims use since Mar. 15, 1904.

Ser. No. 184,354. (CLASS 37. PAPER AND STATIONERY.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed Aug. 11, 1923.



Particular description of goods.—Toilet Paper.
Claims use since Aug. 25, 1921.

Ser. No. 184,355. (CLASS 37. PAPER AND STATIONERY.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed Aug. 11, 1923.



Particular description of goods.—Toilet Paper.
Claims use since Jan. 3, 1923.

Ser. No. 184,358. (CLASS 37. PAPER AND STATIONERY.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed Aug. 11, 1923.



Particular description of goods.—Toilet Paper.
Claims use since Sept. 8, 1921.

Ser. No. 184,360. (CLASS 37. PAPER AND STATIONERY.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed Aug. 11, 1923.



Particular description of goods.—Toilet Paper.
Claims use since Aug. 31, 1921.

Ser. No. 184,361. (CLASS 2. RECEPTACLES.) PELICAN BAY LUMBER COMPANY, Klamath Falls, Oreg. Filed Aug. 11, 1923.

PELICAN

Particular description of goods.—Box Shooks.
Claims use since July 21, 1921.

Ser. No. 184,362. (CLASS 2. RECEPTACLES.) PELICAN BAY LUMBER COMPANY, Klamath Falls, Oreg. Filed Aug. 11, 1923.



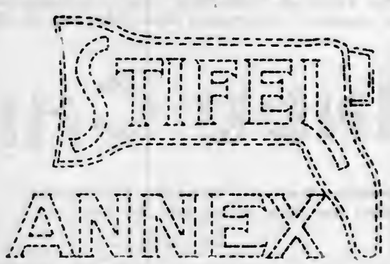
Particular description of goods.—Box Shooks.
Claims use since July 21, 1921.

Ser. No. 184,363. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE PERFECTION RUBBER COMPANY, Cleveland, Ohio. Filed Aug. 11, 1923.

Daddy Boy

Particular description of goods.—Rubber Dolls.
Claims use since on or about Feb. 15, 1923.

Ser. No. 184,367. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. L. STIFEL & SONS, Wheeling, W. Va. Filed Aug. 11, 1923.



Particular description of goods.—Cotton Piece Goods.
Claims use since March, 1923.

Ser. No. 184,380. (CLASS 5. ADHESIVES.) ERNEST R. BRYANT, Boston, Mass. Filed Aug. 13, 1923.

CONGRESS

Particular description of goods.—Friction Tape and Splicing Compound.
Claims use since May 1, 1923.

Ser. No. 184,385. (CLASS 39. CLOTHING.) THE CORTICELLI SILK COMPANY, Florence, Northampton, Mass. Filed Aug. 13, 1923.



Corticelli

Particular description of goods.—Hosiery.
Claims use since about Oct. 11, 1920.

Ser. No. 184,388. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE CORTICELLI SILK COMPANY, Florence, Northampton, Mass. Filed Aug. 13, 1923.

CREPE XO-RAN

Applicant disclaims word "Crepe" apart from the mark shown on the drawing.
Particular description of goods.—Silk Fabrics..
Claims use since about Apr. 26, 1923.

Ser. No. 184,389. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE CORTICELLI SILK CO., Florence, Northampton, Mass. Filed Aug. 13, 1923.

INDU CHI

Particular description of goods.—Silk Fabrics..
Claims use since about July 28, 1923.

Ser. No. 184,391. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE CORTICELLI SILK COMPANY, Florence, Northampton, Mass. Filed Aug. 13, 1923.

SATIN SA-ON

Applicant disclaims the word "Satin" apart from the mark shown on the drawing.
Particular description of goods.—Silk Fabrics.
Claims use since about Apr. 24, 1923.

Ser. No. 184,406. (CLASS 15. OILS AND GREASES.) JULIAN PETROLEUM CORPORATION, Wilmington, Del., and Los Angeles, Calif. Filed Aug. 13, 1923.



No claim is made to the words "Petroleum Corporation" apart from the mark shown.
Particular description of goods.—Gasoline, Lubricating Oils, and Greases.
Claims use since July 26, 1923.

Ser. No. 184,437. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DENZER & NATHAN, INC., New York, N. Y. Filed Aug. 14, 1923.

Revelation

Particular description of goods.—Cotton Fabrics—viz, Cotton Voile in the Piece or Bolt.
Claims use since about July 1, 1923.

Ser. No. 184,438. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DENZER & NATHAN, INC., New York, N. Y. Filed Aug. 14, 1923.



Particular description of goods.—Cotton Fabrics—viz, Cotton Cloths in the Piece or Bolt.
Claims use since about July 1, 1923.

Ser. No. 184,443. (CLASS 37. PAPER AND STATIONERY.) FEDERAL PAPER BOARD COMPANY, INC., Bogota, N. J. Filed Aug. 14, 1923.

FEDERAL 1776

Particular description of goods.—Paperboard for Boxing and Wrapping Purposes.
Claims use since July, 1923.

Ser. No. 184,448. (CLASS 37. PAPER AND STATIONERY.) HAYWOOD PUBLISHING COMPANY, La Fayette, Ind. Filed Aug. 14, 1923.

DUPTAG

Particular description of goods.—Shipping Tags.
Claims use since January, 1923.

Ser. No. 184,496. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) GEO. R. GIBSON & CO., New York, N. Y. Filed Aug. 15, 1923.

VENT-RITE

Particular description of goods.—Toilet Brushes—Namely, Tooth, Complexion, and Hand Brushes.
Claims use since June 7, 1923.

Ser. No. 184,595. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CARSON PIRIE SCOTT & Co., Chicago, Ill. Filed Aug. 17, 1923.

INFANTSWEAR CLOTH



Applicant disclaims the words "Infantswear Cloth" apart from the mark shown on the drawing.
Particular description of goods.—Mercerized Cotton Batiste.
Claims use since about Dec. 20, 1920.

Ser. No. 184,654. (CLASS 37. PAPER AND STATIONERY.) THE DIEM & WING PAPER CO., Cincinnati, Ohio. Filed Aug. 18, 1923.

CHAMOIS SKIN MANILLA



No claim is made to the word "Manilla" except in connection with the balance of the mark.
Particular description of goods.—Wrapping Paper.
Claims use since January, 1912.

Ser. No. 184,655. (CLASS 37. PAPER AND STATIONERY.) THE DIEM & WING PAPER CO., Cincinnati, Ohio. Filed Aug. 18, 1923.

CHICOSA WRITING

No claim is made to the word "Writing" except in connection with the balance of the mark.
Particular description of goods.—Writing Paper.
Claims use since January, 1912.

Ser. No. 184,658. (CLASS 37. PAPER AND STATIONERY.) THE DIEM & WING PAPER CO., Cincinnati, Ohio. Filed Aug. 18, 1923.

SnowFlake

Particular description of goods.—Wrapping Paper.
Claims use since January, 1912.

Ser. No. 184,672. (CLASS 37. PAPER AND STATIONERY.) LE BOEUF FOUNTAIN PEN COMPANY, INC., Springfield, Mass. Filed Aug. 18, 1923.



No claim is made to the fountain pen apart from the mark as shown in the drawing.
Particular description of goods.—Fountain pens.
Claims use since May 1, 1920.

Ser. No. 184,688. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SNOWOLENE HOLDING COMPANY, Los Angeles, Calif. Filed Aug. 18, 1923.

SNOWOLENE

Particular description of goods.—Petroleum Product Used for Cleansing Purposes (a Cleaning Fluid.)
Claims use since Feb. 11, 1923.

Ser. No. 184,707. (CLASS 37. PAPER AND STATIONERY.) EDWIN S. BENDER, doing business as The Credo Check Company, Orange Cove, Calif. Filed Aug. 20, 1923.

CREDO

Particular description of goods.—Checks.
Claims use since Apr. 17, 1923.

Ser. No. 184,728. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HILLERICH & BRADSBY CO., INC., Louisville, Ky. Filed Aug. 20, 1923.

Cy Williams

The trade-mark is a facsimile of the signature of Cy Williams.
Particular description of goods.—Baseball Bats.
Claims use since Aug. 19, 1921.

Ser. No. 184,732. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HUNTINGTON LABORATORIES, INC., Huntington, Ind. Filed Aug. 20, 1923.

HUNTINGTON LABORATORIES

Particular description of goods.—Liquid Soap.
Claims use since Apr. 1, 1923.

Ser. No. 184,733. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HUNTINGTON LABORATORIES, INC., Huntington, Ind. Filed Aug. 20, 1923.

LIQUASAN

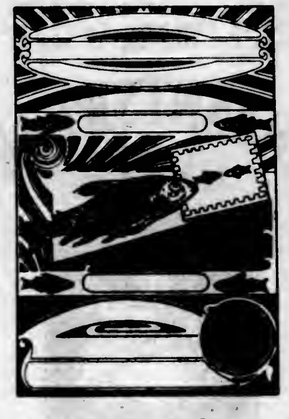
Particular description of goods.—Liquid Soap.
Claims use since Apr. 1, 1923.

Ser. No. 184,746. (CLASS 37. PAPER AND STATIONERY.) THE NEKOOSA-EDWARDS PAPER COMPANY, Port Edwards, Wis. Filed Aug. 20, 1923.

CAMLET

Particular description of goods.—Wrapping Paper.
Claims use since June 14, 1923.

Ser. No. 184,771. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) NICK S. STEPHENSON, doing business as Nick Stephenson & Co., Chicago, Ill. Filed Aug. 20, 1923.



Particular description of goods.—Cigarette Paper.
Claims use since 1907.

Ser. No. 184,798. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SAMSTAG & HILDER BROS., INC., New York, N. Y. Filed Aug. 21, 1923.

The Cupid

Particular description of goods.—Hair Nets.
Claims use since June 16, 1922.

Ser. No. 184,799. CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) A. SCHOTTLAND INC., Paterson, N. J. Filed Aug. 21, 1923.

CREPE LEHCAR

Trade-mark consists of the words "Crepe Lehcar," no claim made to the exclusive use of the word "Crepe" apart from the mark as shown in the drawing.
Particular description of goods.—Cotton and Silk Crapes in the Piece.
Claims use since Aug. 8, 1923.

Ser. No. 184,800. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) A. SCHOTTLAND INC., Paterson, N. J. Filed Aug. 21, 1923.

CREPE TEUNAN

Trade-mark consists of the words "Crepe Teunan," no claim being made to the exclusive use of the word "Crepe" apart as shown in the drawing.
Particular description of goods.—Cotton and Silk Crapes in the Piece.
Claims use since Aug. 8, 1923.

Ser. No. 184,808. (CLASS 7. CORDAGE.) AMERICAN MILLS COMPANY, Atlanta, Ga. Filed Aug. 22, 1923.

Radium

Particular description of goods.—Wrapping Twine.
Claims use since April, 1917.

Ser. No. 184,884. (CLASS 10. FERTILIZERS.) CHARLES A. B. ZOOK, doing business as F. & I. Tobacco Products Company, Lancaster, Pa. Filed Aug. 22, 1923.

F&I

Particular description of goods.—Fertilizers.
Claims use since Mar. 1, 1922.

Ser. No. 184,886. (CLASS 10. FERTILIZERS.) CHARLES A. B. ZOOK, doing business as F. & I. Tobacco Products Company, Lancaster, Pa. Filed Aug. 22, 1923.

GOLF GREEN

Particular description of goods.—Fertilizers.
Claims use since Mar. 1, 1922.

Ser. No. 184,912. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) A. & M. KARAGHEUSIAN, INC., New York, N. Y. Filed Aug. 23, 1923.



Particular description of goods.—Textile Rugs.
Claims use since March, 1922.

Ser. No. 184,955. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BAKER, HAMILTON & PACIFIC COMPANY, San Francisco, Calif. Filed Aug. 25, 1923.

STILETTO

Particular description of goods.—Belt Dressing, Composite Neat's-Foot Oil, Pure Neat's-Foot Oil, and Razor Strops.
Claims use since May, 1896, on razor strops; since September, 1914, on composite neat's-foot oil, and pure neat's-foot oil; since September, 1921, on belt dressing.

Ser. No. 184,965. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE FARLEY HARVEY COMPANY, Boston, Mass. Filed Aug. 25, 1923.



Particular description of goods.—Dry Goods—Namely, Linen and Cotton Cloths.
Claims use since June 1, 1900.

Ser. No. 184,971. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ITALO MARCHIONY, Hoboken, N. J. Filed Aug. 25, 1923.

UEATUM

Particular description of goods.—Ice-Cream Cones.
Claims use since Aug. 17, 1923.

Ser. No. 185,013. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CHARLES FRITZ, doing business as California Toy Co., Berkeley, Calif. Filed Aug. 27, 1923.



KING OF THE AIR

Particular description of goods.—Kites.
Claims use since Mar. 1, 1923.

Ser. No. 185,112. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Aug. 29, 1923.

Celesteen

Particular description of goods.—Woolen Piece Goods.
Claims use since July 1, 1923.

Ser. No. 185,113. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Aug. 29, 1923.

Charmella

Particular description of goods.—Woolen Piece Goods.
Claims use since July 1, 1923.

Ser. No. 185,115. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Aug. 29, 1923.

Serapheen

Particular description of goods.—Woolen Piece Goods.
Claims use since July 1, 1923.

Ser. No. 185,116. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Aug. 29, 1923.

Silvana

Particular description of goods.—Woolen Piece Goods.
Claims use since July 1, 1923.

Ser. No. 185,117. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Aug. 29, 1923.

Troyka

Particular description of goods.—Woolen Piece Goods.
Claims use since July 15, 1923.

Ser. No. 185,163. (CLASS 37. PAPER AND STATIONERY.) TAVERNER & FRICKE, Los Angeles, Calif. Filed Aug. 29, 1923.



Particular description of goods.—Wrapping Paper, Toilet Paper, and Wax Paper.
Claims use since Jan. 29, 1920.

Ser. No. 185,179. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Filed Aug. 30, 1923.

Artspun

Particular description of goods.—Silk Piece Goods.
Claims use since Jan. 20, 1920.

Ser. No. 185,187. (CLASS 7. CORDAGE.) THE PORTLAND CORDAGE CO., Portland, Oreg. Filed Aug. 30, 1923.



The drawing consists of a representation of an Indian head.
Particular description of goods.—Twine.
Claims use since June, 1923.

Ser. No. 185,202. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHENEY BROTHERS, South Manchester, Conn. Filed Aug. 31, 1923.

Glo-Gleam

Particular description of goods.—Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.
Claims use since Aug. 24, 1923.

Ser. No. 185,390. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) UNITED BRUSH MANUFACTORIES, New York, N. Y. Filed Sept. 6, 1923.

"BEAUX ARTS"

Trade-mark consists of the words "Beaux Arts."
Particular description of goods.—Artists' Paintbrushes.
Claims use since January, 1914.

Ser. No. 185,467. (CLASS 2. RECEPTACLES.) B. KATZ & SON, New York, N. Y. Filed Sept. 7, 1923.

KARY SAFE

Particular description of goods.—Shopping Bags.
Claims use since about January, 1923.

Ser. No. 185,578. (CLASS 7. CORDAGE.) GRANITE CORDAGE COMPANY, Granite Falls and Hickory, N. C. Filed Sept. 10, 1923.



Particular description of goods.—Cords, Twines, Ropes, and Lines of Fiber Material Made From Cotton, Hemp, Manila, Sisal, or Jute, Said Lines Being of the Nature of Clotheslines.
Claims use since Aug. 1, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

OCTOBER 16, 1923.

174,315. CERTAIN NAMED MUSICAL INSTRUMENTS. C. Bruno & Son, Inc., New York, N. Y.
Filed March 16, 1923. Serial No. 177,543. PUBLISHED JUNE 12, 1923.

174,316. ICE-CREAM FREEZER. Richmond Cedar Works, Richmond, Va.
Filed March 19, 1923. Serial No. 177,694. PUBLISHED JUNE 5, 1923.

174,317. PREPARATION FOR THE RELIEF OF HEADACHE, PAIN, NEURALGIA, AND RHEUMATIC ACHES. Ethicus Prompt Treatment Kit, Inc., New York, N. Y.
Filed March 20, 1923. Serial No. 177,729. PUBLISHED JULY 10, 1923.

174,318. FEMALE GENERAL TONIC. Henry S. Gilbert, doing business as Berco Medicine Co., Louisville, Ky.
Filed March 20, 1923. Serial No. 177,733. PUBLISHED JULY 10, 1923.

174,319. HAIR PREPARATION. George P. Haldy, Cedar Rapids, Iowa.
Filed March 20, 1923. Serial No. 177,737. PUBLISHED JULY 10, 1923.

174,320. INSECTICIDE. The American Insecticide Co., Lima, Ohio.
Filed March 21, 1923. Serial No. 177,758. PUBLISHED JULY 10, 1923.

174,321. PHONOGRAPHS BOTH ALONE AND IN CERTAIN DESCRIBED COMBINATION WITH RADIO RECEIVING SETS. Lyradion Manufacturing Company, Mishawaka, Ind.
Filed March 21, 1923. Serial No. 177,790. PUBLISHED JUNE 26, 1923.

174,322. HAIR DRESSING. Simeon S. Levy, doing business as La Fleur Laboratories, Cleveland, Ohio.
Filed March 22, 1923. Serial No. 177,854. PUBLISHED JULY 10, 1923.

174,323. HAIR GROWER. Ida McKoin, Guthrie, Okla.
Filed March 22, 1923. Serial No. 177,858. PUBLISHED JULY 17, 1923.

174,324. MISSES' AND CHILDREN'S KNITTED UNDERWEAR, BOTH ONE AND TWO PIECE, AND SLEEPING SUITS. Everett Knitting Works, Lebanon, N. H.
Filed March 23, 1923. Serial No. 177,904. PUBLISHED JULY 17, 1923.

174,325. INFANTS' KNITTED UNDERWEAR, BOTH ONE AND TWO PIECE, WRAPPERS, AND BANDS. Everett Knitting Works, Lebanon, N. H.
Filed March 23, 1923. Serial No. 177,903. PUBLISHED JULY 17, 1923.

174,326. LAXATIVE PREPARATIONS. Joseph F. Hrbjsa, Chicago, Ill.
Filed March 24, 1923. Serial No. 177,972. PUBLISHED JULY 17, 1923.

174,327. GLYCERIN. The Procter and Gamble Company, Cincinnati, Ohio.
Filed March 24, 1923. Serial No. 177,998. PUBLISHED JULY 17, 1923.

174,328. CERTAIN NAMED VEHICLES. The Union Steel Products Company, Ltd., Albion, Mich.
Filed March 24, 1923. Serial No. 178,008. PUBLISHED JULY 17, 1923.

174,329. ESSENTIAL OILS USED IN THE PRODUCTION OF PERFUMES. Essential Oil Company, New York, N. Y.
Filed March 26, 1923. Serial No. 178,030. PUBLISHED JULY 10, 1923.

174,330. ANTISEPTIC FOOT POWDER. Paul L. Tarara, St. Paul, Minn.
Filed March 26, 1923. Serial No. 178,072. PUBLISHED JULY 17, 1923.

174,331. COTTON, SILK, WOOL AND LINEN UNDERWEAR OF KNITTED AND TEXTILE FABRIC FOR FEMALES. Martha Maid Manufacturing Company, Incorporated, Chicago, Ill.
Filed March 26, 1923. Serial No. 178,084. PUBLISHED JULY 17, 1923.

174,332. CYLINDER OIL. Pure Oil Company, Columbus, Ohio.
Filed March 27, 1923. Serial No. 178,121. PUBLISHED JULY 17, 1923.

174,333. LUBRICATING OIL FOR HAND SEPARATORS. Pure Oil Company, Columbus, Ohio.
Filed March 27, 1923. Serial No. 178,123. PUBLISHED JULY 17, 1923.

174,334. GRAPHITE FARM MACHINERY OIL. Pure Oil Company, Columbus, Ohio.
Filed March 27, 1923. Serial No. 178,124. PUBLISHED JULY 17, 1923.

174,335. FARM-MACHINERY-LUBRICATING OIL. Pure Oil Company, Columbus, Ohio.
Filed March 27, 1923. Serial No. 178,125. PUBLISHED JULY 17, 1923.

174,336. AXLE GREASE. Pure Oil Company, Columbus, Ohio.
Filed March 27, 1923. Serial No. 178,133. PUBLISHED JULY 17, 1923.

174,337. HARD OIL. Pure Oil Company, Columbus, Ohio.
Filed March 27, 1923. Serial No. 178,134. PUBLISHED JULY 17, 1923.

174,338. CONFECTION COMPRISING A FROZEN EDIBLE MATERIAL COVERED WITH A COATING OF HARDENED CHOCOLATE. H. P. Hood & Sons, Inc., Boston, Mass.
Filed January 21, 1922. Serial No. 158,234. PUBLISHED DECEMBER 5, 1922.

174,339. HOSIERY. John C. Larkin, New York, N. Y.
Filed November 25, 1921. Serial No. 155,895. PUBLISHED JULY 18, 1922.

174,340. TALKING MACHINES, REPRODUCERS, RECORDERS, AND NEEDLES FOR TALKING MACHINES, AND PARTS THEREFOR. The Voluma Corporation, Baltimore, Md.
Filed November 12, 1921. Serial No. 155,328. PUBLISHED JUNE 19, 1923.

174,341. PREPARATION FOR THE TREATMENT OF HEADACHE, NEURALGIA, NEURITIS, LUMBAGO, COLDS, LA GRIPPE, AND ACUTE MUSCULAR RHEUMATISM. Gilbert Bros. and Co., Inc., Baltimore, Md.
Filed November 7, 1921. Serial No. 155,094. PUBLISHED MARCH 28, 1922.

174,342. ANTISKID CHAINS FOR VEHICLE WHEELS. American Chain Company, Inc., New York, N. Y., and Bridgeport, Conn.
Filed November 4, 1921. Serial No. 155,005. PUBLISHED JUNE 6, 1922.

174,343. CERTAIN NAMED RADIO APPARATUS. Elmer T. Cunningham, San Francisco, Calif.
Filed September 22, 1921. Serial No. 153,200. PUBLISHED JUNE 26, 1923.

174,344. ASPIRIN. The William A. Webster Company, Memphis, Tenn.
Filed August 27, 1921. Serial No. 152,294. PUBLISHED JULY 17, 1923.

174,345. CERTAIN NAMED MUSICAL INSTRUMENTS, MERCHANDISE, AND GOODS. Lyon & Healy, Chicago, Ill., assignor to Lyon & Healy, Inc., Chicago, Ill., a Corporation of Illinois.
Filed March 3, 1921. Serial No. 144,290. PUBLISHED JUNE 12, 1923.

174,346. HEALING CREAMS FOR ECZEMA. St. Firo Remedy Co., Newark, N. J.
Filed February 11, 1921. Serial No. 143,464. PUBLISHED JULY 17, 1923.

174,347. HOSIERY. Percy Friedlander and Albert Solomon, Chicago, Ill.
Filed December 18, 1920. Serial No. 141,265. PUBLISHED MARCH 14, 1922.

174,348. CHOCOLATE. Klein Chocolate Company, Elizabethtown, Pa.
Filed December 10, 1920. Serial No. 140,895. PUBLISHED MARCH 1, 1921.

174,349. PHONOGRAPHS, TALKING MACHINES, AND REPRODUCERS, HORNS, NEEDLES, AND RECORDS THEREFOR, AND MUSICAL BELLS. Supplee-Biddle Hardware Company, Philadelphia, Pa.
Filed December 6, 1920. Serial No. 140,683. PUBLISHED JUNE 19, 1923.

174,350. HOSIERY. Wilson Brothers, Chicago, Ill.
Filed July 17, 1920. Serial No. 135,121. PUBLISHED JULY 17, 1923.

174,351. CERTAIN NAMED SILVER-PLATED ARTICLES. Lehman Bros., New York, N. Y.
Filed March 13, 1923. Serial No. 177,391. PUBLISHED MAY 29, 1923.

174,352. OVERCOATS AND TOPCOATS. Hickey-Freeman Co., Rochester, N. Y.
Filed March 13, 1923. Serial No. 177,377. PUBLISHED JULY 17, 1923.

174,353. GENERAL OR SYSTEM TONIC. Northwestern Yeast Company, Chicago, Ill.
Filed March 12, 1923. Serial No. 177,318. PUBLISHED JULY 17, 1923.

174,354. LINIMENT. Michael W. Shefftel, doing business as Rheumatum Company, Stigler, Okla.
Filed March 7, 1923. Serial No. 177,111. PUBLISHED JULY 10, 1923.

174,355. PREPARATIONS FOR THE TREATMENT OF CONSTIPATION AND ITS SYMPTOMS. The Gotham Corporation, New York, N. Y.
Filed March 6, 1923. Serial No. 177,040. PUBLISHED JULY 10, 1923.

174,356. COUGH DROPS AND LOZONGES. George J. Bolduc, doing business as G. J. Bolduc & Company, Portland, Oreg.
Filed March 6, 1923. Serial No. 177,032. PUBLISHED JULY 10, 1923.

174,357. CANCER SALVE. Harry E. Ritter and Mary V. Gordon, Selinsgrove, Pa.
Filed March 3, 1923. Serial No. 176,917. PUBLISHED JULY 10, 1923.

174,358. LIQUID, CREAM, AND POMADE HAIR-DRESSINGS. George M. Miller, Brooklyn, N. Y.
Filed March 3, 1923. Serial No. 176,905. PUBLISHED JULY 17, 1923.

174,359. COLORING MATTER FOR BUTTER. Dyestuffs & Chemicals, Incorporated, St. Louis, Mo.
Filed March 1, 1923. Serial No. 176,790. PUBLISHED JULY 17, 1923.

174,360. PILE BALM AND TABLETS FOR DISORDERS OF THE LIVER AND BOWELS. Arthur W. Bishop, doing business as King & Winston Products Co., St. Louis, Mo.
Filed February 28, 1923. Serial No. 176,710. PUBLISHED JULY 10, 1923.

174,361. SIRUP FOR THE RELIEF OF COUGHS, COLDS, AND BRONCHITIS. San Antonio Drug Co., San Antonio, Tex.
Filed February 26, 1923. Serial No. 176,656. PUBLISHED JULY 10, 1923.

174,362. HOSIERY. Amos L. Horst, New York, N. Y.
Filed February 24, 1923. Serial No. 176,547. PUBLISHED JULY 17, 1923.

174,363. SEPTIC TANKS. Keynote Manufacturing Co. Inc., Indianapolis, Ind.
Filed February 23, 1923. Serial No. 176,480. PUBLISHED JULY 17, 1923.

174,364. MEN'S, LADIES', BOYS', AND GIRLS' HOSIERY, UNDERWEAR, SWEATERS, GLOVES, AND MITTENS OF KNITTED FABRICS. Edward Heathcote, New York, N. Y.
Filed February 23, 1923. Serial No. 176,465. PUBLISHED JULY 17, 1923.

174,365. COLLARS. Cluett, Peabody & Company, Inc., Troy, N. Y.
Filed February 23, 1923. Serial No. 176,451. PUBLISHED JULY 17, 1923.

174,366. UMBRELLAS AND PARASOLS. Jacob Grossman, doing business as Giant Umbrella Co., New York, N. Y.
Filed February 20, 1923. Serial No. 176,342. PUBLISHED JULY 10, 1923.

174,367. ELECTRIC HAIR-CURLING IRONS. W. T. Grant Company, Lynn, Mass., and New York, N. Y.
Filed February 7, 1923. Serial No. 175,656. PUBLISHED JUNE 12, 1923.

174,368. SHAMPOO, SCALP OIL, DANDRUFF OINTMENT, HAIR OIL, AND SKIN LOTION. Hall, Thralls & Co., Hymera, Ind.
Filed February 5, 1923. Serial No. 175,555. PUBLISHED JULY 10, 1923.

174,369. SHELL FOUND IN THE PHILIPPINE ARCHIPELAGO. Edward H. Wardwell, New York, N. Y.
Filed January 30, 1923. Serial No. 175,331. PUBLISHED JULY 17, 1923.

174,370. CERTAIN NAMED RADIO APPARATUS. Lyradion Manufacturing Company, Mishawaka, Ind.
Filed January 25, 1923. Serial No. 175,091. PUBLISHED JUNE 26, 1923.

174,371. CERTAIN NAMED TELEGRAPH APPARATUS. Kleinschmidt Electric Co., Inc., Long Island City, N. Y.
Filed August 30, 1922. Serial No. 168,894. PUBLISHED JUNE 12, 1923.

174,372. COFFEE AND TEA. The Berdan Company, Toledo, Ohio.
Filed August 7, 1922. Serial No. 167,864. PUBLISHED MARCH 6, 1923.

174,373. CHEMICAL PREPARATIONS USED AGAINST PLANT PESTS AND SEED AFFLICTIONS. Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany.
Filed August 5, 1922. Serial No. 167,842. PUBLISHED JULY 17, 1923.

174,374. MOTH-PREVENTIVE COMPOUND. William R. Griffin, West Norwood, N. J.
Filed August 2, 1922. Serial No. 167,720. PUBLISHED JULY 17, 1923.

174,375. TOBACCO, CIGAR, AND CIGARETTE BOXES MADE OF PAPER OR CARDBOARD. LEBWOHL & MINDICH, New York, N. Y.
Filed July 15, 1922. Serial No. 166,950. PUBLISHED JULY 17, 1923.

174,376. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. FARBWERKE VORM. MEISTER LUCIUS & BRÜNING, Hochst-on-Main, Germany.
Filed June 16, 1922. Serial No. 165,584. PUBLISHED JULY 10, 1923.

174,377. READY-MIXED PAINTS, VARNISHES, AND PAINT ENAMELS. CHARLES DRABEK, doing business as Painters Supply Co., Cleveland, Ohio.
Filed June 22, 1922. Serial No. 165,858. PUBLISHED JULY 17, 1923.

174,378. GLUE AND GELATINS USED IN THE MANUFACTURE OF GLUE. RÖHM & HAAS AKTIENGESELLSCHAFT, Darmstadt, Germany.
Filed May 20, 1922. Serial No. 164,196. PUBLISHED JULY 17, 1923.

174,379. DEODORANT. LILLIAN S. THOMAS, doing business as Froidevaux Cie., New York, N. Y.
Filed April 27, 1922. Serial No. 163,011. PUBLISHED AUGUST 22, 1922.

174,380. MEN'S DRESS SHIRTS, NEGLIGEE SHIRTS, AND WORK SHIRTS. I. H. BARNETT & BROTHER, New York, N. Y.
Filed April 11, 1922. Serial No. 162,099. PUBLISHED OCTOBER 3, 1922.

174,381. GUT AND METAL STRINGS FOR STRINGED MUSICAL INSTRUMENTS. SCHMIDT-HOLLAND INC., New York, N. Y.
Filed April 1, 1922. Serial No. 161,652. PUBLISHED JUNE 26, 1923.

174,382. JEWELRY FOR PERSONAL ADORNMENT, NOT INCLUDING WATCHES AND JEWELED POCKETKNIVES. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed March 31, 1922. Serial No. 161,539. PUBLISHED FEBRUARY 20, 1923.

174,383. MEDICAL PREPARATION USED TO RELIEVE PAIN. THE ELI LILLY & COMPANY, Indianapolis, Ind., now by change of name Eli Lilly & Company, Indianapolis, Ind., a Corporation of Indiana.
Filed February 11, 1922. Serial No. 159,212. PUBLISHED JULY 17, 1923.

174,384. COFFEE. SANITARY GROCERY CO. INC., Washington, D. C.
Filed August 31, 1922. Serial No. 168,942. PUBLISHED FEBRUARY 27, 1923.

174,385. CERTAIN NAMED GLUE PRODUCTS. IRA I. SLOMON, New York, N. Y.
Filed November 3, 1922. Serial No. 171,555. PUBLISHED JULY 17, 1923.

174,386. ROOFING PAINT AND PAINT ENAMEL FOR FURNITURE. F. O. SCHOEDINGER, Columbus, Ohio.
Filed November 17, 1922. Serial No. 172,185. PUBLISHED JULY 17, 1923.

174,387. REFINED PETROLEUM OIL FOR ILLUMINATING, HEATING, AND POWER PURPOSES. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed November 18, 1922. Serial No. 172,242. PUBLISHED JULY 17, 1923.

174,388. CERTAIN PADS, BANDAGES, AND SUPPORTERS. JAMES W. BRINE COMPANY, Boston, Mass.
Filed November 27, 1922. Serial No. 172,578. PUBLISHED JULY 17, 1923.

174,389. MOUTH HARMONICA. AMERICAN WHOLESALE CORPORATION, (BALTIMORE BARGAIN HOUSE), Baltimore, Md.
Filed December 2, 1922. Serial No. 172,816. PUBLISHED JUNE 19, 1923.

174,390. HOPS. J. SONNENSCHEIN HOP COMPANY, INC., New York, N. Y.
Filed December 9, 1922. Serial No. 173,148. PUBLISHED JULY 17, 1923.

174,391. PHONOGRAPHS AND CERTAIN NAMED PHONOGRAPH ACCESSORIES. SAMUEL ESHBORN, New York, N. Y.
Filed December 22, 1922. Serial No. 173,702. PUBLISHED JUNE 26, 1923.

174,392. COMPOSITE MATERIAL. THE CONTINENTAL FIBRE COMPANY, Newark, Del.
Filed January 6, 1923. Serial No. 174,236. PUBLISHED JULY 17, 1923.

174,393. PREPARATION FOR BATHING AND MASSAGING. FRANK BORNN, doing business as Bornn Distilling Company, New York, N. Y.
Filed January 11, 1923. Serial No. 174,425. PUBLISHED JULY 17, 1923.

174,394. APRONS. R. H. MACY & CO., INC., New York, N. Y.
Filed January 12, 1923. Serial No. 174,524. PUBLISHED JULY 17, 1923.

174,395. OINTMENT. JERVIS D. BROWN, Los Angeles, Calif.
Filed January 19, 1923. Serial No. 174,765. PUBLISHED JULY 17, 1923.

174,396. LAMP SHADES OF FIBROUS MATERIAL. ROBERT BEARDSLEY, doing business as Beardsley Studios, Chicago, Ill.
Filed January 24, 1923. Serial No. 174,997. PUBLISHED JULY 17, 1923.

174,397. INSECTICIDE. SOUTHERN SPECIALTY COMPANY, Thomasville, Ga.
Filed March 29, 1923. Serial No. 178,293. PUBLISHED JULY 10, 1923.

174,398. INSECTICIDE. SOUTHERN SPECIALTY COMPANY, Thomasville, Ga.
Filed March 29, 1923. Serial No. 178,292. PUBLISHED JULY 10, 1923.

174,399. ZINC-OXIDE PADS. WIZARD LIGHTFOOT APPLIANCE COMPANY, St. Louis, Mo.
Filed March 29, 1923. Serial No. 178,322. PUBLISHED JULY 10, 1923.

174,400. MEDICINE FOR RHEUMATISM AND BACKACHE. LOUIS KALETZKY, Syracuse, N. Y.
Filed March 30, 1923. Serial No. 178,344. PUBLISHED JULY 17, 1923.

174,401. REMEDY FOR THE TREATMENT OF GOITER. THE REESE CHEMICAL COMPANY, Cleveland, Ohio.
Filed March 30, 1923. Serial No. 178,359. PUBLISHED JULY 17, 1923.

174,402. INSECTICIDES. ISADORE HOLLANDER, doing business as Hollander Chemical Works, Bayonne, N. J.
Filed March 31, 1923. Serial No. 178,388. PUBLISHED JULY 17, 1923.

174,403. BOAT PAINT. WESTCOTT, SLADE AND BALCOM COMPANY, Providence, R. I.
Filed April 5, 1923. Serial No. 178,647. PUBLISHED JULY 17, 1923.

174,404. PHARMACEUTICAL PREPARATIONS FOR PROMOTING THE GROWTH OF HUMAN HAIR. AKTIENGESELLSCHAFT FÜR CHEMISCHE PRODUKTE VORMALS H. SCHEIDEMANDEL, Berlin, Germany.
Filed November 4, 1922. Serial No. 171,566. PUBLISHED JULY 17, 1923.

174,405. SHEET-METAL SECTIONAL ROWBOATS. THE ALFRED C. GOETHEL CO., Milwaukee, Wis.
Filed February 26, 1923. Serial No. 176,617. PUBLISHED JULY 17, 1923.

174,406. GROUND LIMESTONE, CHALK WHITING, CHALK, ASPHALT FILLER, AND WHITING. THE KRIPPENDORF-TUTTLE WHITE CLIFFS PRODUCTS CO., Cincinnati, Ohio.
Filed February 23, 1923. Serial No. 176,482. PUBLISHED JULY 3, 1923.

174,407. LEATHER. KISTLER LEATHER COMPANY, South Boston, Mass.
Filed February 13, 1923. Serial No. 175,991. PUBLISHED JULY 3, 1923.

174,408. METAL ELECTRODES. THE SEYMOUR MANUFACTURING COMPANY, Seymour, Conn.
Filed February 12, 1923. Serial No. 175,951. PUBLISHED JUNE 26, 1923.

174,409. PORTABLE ELECTRIC LAMPS AND PARTS THEREOF, AND BRACKETS, STANDS, AND CLAMPS THEREFOR. HOME LIGHTING EQUIPMENT CORPORATION, New York, N. Y.
Filed February 9, 1923. Serial No. 175,792. PUBLISHED JULY 10, 1923.

174,410. PORTABLE ELECTRIC LAMPS AND PARTS THEREOF, AND BRACKETS, STANDS, AND CLAMPS THEREFOR. AMERICAN ELECTRIC EQUIPMENT CO., INC., New York, N. Y.
Filed February 9, 1923. Serial No. 175,754. PUBLISHED JULY 10, 1923.

174,411. RADIO TELEPHONE AND TELEGRAPH RECEIVING SETS AND TRANSMITTING SETS AND PARTS. DE FOREST RADIO TELEPHONE & TELEGRAPH COMPANY, Jersey City, N. J.
Filed February 3, 1923. Serial No. 175,472. PUBLISHED JUNE 26, 1923.

174,412. LUMBER, BOTH FINISHED AND UNFINISHED. WILLIAM L. KANN, Pittsburgh, Pa.
Filed January 16, 1923. Serial No. 174,661. PUBLISHED JUNE 26, 1923.

174,413. STATUETTES. THE RAGRAG SISTERS COMPANY, Grand Rapids, Mich.
Filed January 15, 1923. Serial No. 174,638. PUBLISHED JUNE 26, 1923.

174,414. TREES, PLANTS, SHRUBS, AND BUSHES. FRANK M. EDWARDS, Milwaukee, Wis.
Filed April 9, 1923. Serial No. 178,831. PUBLISHED JULY 17, 1923.

174,415. PREPARATION FOR THE TREATMENT OF SCALP AND SKIN DISEASES. THOMAS S. WILLIAMS, Republic, Wash.
Filed April 24, 1923. Serial No. 179,636. PUBLISHED JULY 17, 1923.

174,416. CRAVATS. WILLOW WEAVING CO. INC., New York, N. Y.
Filed April 23, 1923. Serial No. 179,576. PUBLISHED JULY 17, 1923.

174,417. OPHTHALMIC MOUNTINGS AND PARTS THEREOF. WILLSON GOGGLES, INC., Reading, Pa.
Filed May 9, 1923. Serial No. 180,403. PUBLISHED JULY 17, 1923.

174,418. MOTOR FUELS. FREDERICK J. ABBOTT, doing business as Crystal Petroleum Products Corporation, Los Angeles, Calif.
Filed May 10, 1923. Serial No. 180,406. PUBLISHED JULY 17, 1923.

174,419. NAIL FILES, TOILET TWEEZERS, NAIL NIPPERS, AND CUTICLE NIPPERS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed May 28, 1923. Serial No. 181,270. PUBLISHED JULY 17, 1923.

174,420. WATER BOTTLES, FOUNTAIN SYRINGES, SCREW-CAPPED ICE BAGS, AND COMBINATION WATER BOTTLE AND FOUNTAIN SYRINGE. INDEPENDENT DRUG COMPANY, Jacksonville, Fla.
Filed May 28, 1923. Serial No. 181,279. PUBLISHED JULY 17, 1923.

174,421. TOILET PREPARATIONS. PAUL PROT & CIE., doing business as Parfumerie Lubin, Paris, France.
Filed September 29, 1922. Serial No. 170,086. PUBLISHED JULY 10, 1923.

174,422. PHONOGRAPH RECORDS. WILLIAM CHANDLER PEAK, Chicago, Ill.
Filed October 2, 1922. Serial No. 170,209. PUBLISHED JUNE 26, 1923.

174,423. POULTRY MEDICINE FOR THE TREATMENT OF BLACKHEAD, YELLOW DIARRHEA, TURKEY POX, BOWEL TROUBLE, AND WORMS. C. J. MARTIN, Austin, Tex.
Filed October 19, 1922. Serial No. 170,943. PUBLISHED AUGUST 7, 1923.

174,424. PEARLS. THE INDRA PEARL CO. INC., New York, N. Y.
Filed October 26, 1922. Serial No. 171,219. PUBLISHED JANUARY 2, 1923.

174,425. CORRESPONDENCE PAPER, CORRESPONDENCE CARDS, ENVELOPES, AND BOXES CONTAINING THE SAME. MELLEN T. BIRD, doing business as M. T. Bird & Co., Boston, Mass.
Filed April 28, 1923. Serial No. 179,846. PUBLISHED JUNE 19, 1923.

174,426. ELECTRICAL SOLDERING IRONS. ELECTRIC HEAT UNIT CO., St. Louis, Mo.
Filed April 20, 1923. Serial No. 179,402. PUBLISHED JUNE 26, 1923.

174,427. TELEPHONE ADAPTERS FOR COUPLING TELEPHONE RECEIVERS TO SOUND AMPLIFIERS. THE TEAGLE COMPANY, Cleveland, Ohio.
Filed April 18, 1923. Serial No. 179,337. PUBLISHED JUNE 26, 1923.

174,428. GUARDS FOR ELECTRIC LAMPS. FLEXIBLE STEEL LACING CO., Chicago, Ill.
Filed April 16, 1923. Serial No. 179,190. PUBLISHED JUNE 26, 1923.

174,429. TELEPHONE INSTRUMENTS. SAMUEL F. STEIN, Williamsport, Pa.
Filed April 30, 1923. Serial No. 179,971. PUBLISHED JUNE 26, 1923.

174,430. SPOTLIGHTS AND LIGHT PROJECTORS. ROBERT GOLDEN, New York, N. Y.
Filed April 14, 1923. Serial No. 179,145. PUBLISHED JUNE 26, 1923.

174,431. RUBBER TIRES AND INNER TUBES. LEO L. CHADWIN, doing business as Protection Tire & Rubber Company, Philadelphia, Pa.
Filed April 12, 1923. Serial No. 179,030. PUBLISHED JULY 3, 1923.

174,432. THERMIONIC DETECTOR, AMPLIFIER, AND OSCILLATOR TUBES. ELMER T. CUNNINGHAM, San Francisco, Calif.
Filed April 11, 1923. Serial No. 178,957. PUBLISHED JUNE 26, 1923.

174,433. STORAGE BATTERIES. BROWN & SEHLER COMPANY, Grand Rapids, Mich.
Filed April 9, 1923. Serial No. 178,816. PUBLISHED JUNE 26, 1923.

174,434. METAL DISK ROAD WHEELS FOR MOTOR VEHICLES AND PARTS THEREOF. WIRE WHEEL CORPORATION OF AMERICA, Buffalo, N. Y.
Filed April 7, 1923 Serial No. 178,793. PUBLISHED JULY 17, 1923.

174,435. APPARATUS AND APPURTENANCES USED IN RADIOTELEPHONY, AND MORE PARTICULARLY TO MULTIPLE-PLATE CONDENSERS. U. S. TOOL COMPANY, INC., Newark, N. J.
Filed April 7, 1923. Serial No. 178,783. PUBLISHED JUNE 26, 1923.

174,436. RUBBER MATTING. THE PAINE & WILLIAMS COMPANY, Cleveland, Ohio.
Filed March 26, 1923. Serial No. 178,060. PUBLISHED JULY 3, 1923.

174,437. RUBBER AND FABRIC TIRES. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Wilmington, Del., and Chicago, Ill.
Filed March 24, 1923. Serial No. 177,951. PUBLISHED JULY 17, 1923.

174,438. LEATHER BELTING. JACOB BACHMANN, doing business as J. Bachmann & Co., New York, N. Y.
Filed March 21, 1923. Serial No. 177,760. PUBLISHED JULY 3, 1923.

174,439. FURNITURE-MOVING PADS, TENTS, TARPAULINS, AND AWNINGS AND WATERPROOF PHONOGRAPH, CASKET, TRUCK, AND PIANO COVERS. A. BRUNS & SONS, Brooklyn, N. Y.
Filed March 16, 1923. Serial No. 177,544. PUBLISHED JULY 3, 1923.

174,440. CERTAIN NAMED TELEPHONE AND RADIO APPARATUS. ETNA RADIO CO. INC., New York, N. Y.
Filed March 10, 1923. Serial No. 177,218. PUBLISHED JUNE 19, 1923.

174,441. HOUSEHOLD ELECTRICAL DEVICES, PARTICULARLY ELECTRICAL GRIDDLES, TOASTERS, AND COOKING AND HEATING STOVES. ALLIED FACTORIES CORPORATION, Kansas City, Mo.
Filed March 8, 1923. Serial No. 177,118. PUBLISHED JUNE 19, 1923.

174,442. AUTOMOBILE TRANSMISSION BANDS. PARKS & BOHNE, INC., St. Louis, Mo.
Filed February 26, 1923. Serial No. 176,645. PUBLISHED JUNE 26, 1923.

174,443. DECORATING OUTFITS, COMPRISING VARNISHES, COLORING MATTER, BRUSHES, AND SPONGES. THE R. F. JOHNSTON PAINT COMPANY, Cincinnati, Ohio.
Filed February 26, 1923. Serial No. 176,631. PUBLISHED JULY 3, 1923.

174,444. COAL. HARRISBURG COAL MINING COMPANY, Chicago, Ill.
Filed February 26, 1923. Serial No. 176,624. PUBLISHED JULY 17, 1923.

174,445. GLASS CURTAIN LIGHTS AND FRAMES FOR AUTOMOBILES. ERNEST W. HORNUNG, doing business as The Hubbell Manufacturing Co., Cleveland, Ohio.
Filed September 25, 1922. Serial No. 169,904. PUBLISHED JULY 17, 1923.

174,446. CERTAIN NAMED RADIO TELEPHONE AND TELEGRAPH APPARATUS. DE FOREST RADIO TELEPHONE AND TELEGRAPH COMPANY, Jersey City, N. J.
Filed July 22, 1922. Serial No. 167,229. PUBLISHED JUNE 26, 1923.

174,447. GROUND LIME AND HYDRATED LIME. SECURITY CEMENT & LIME CO., Hagerstown, Md.
Filed June 20, 1922. Serial No. 165,760. PUBLISHED JULY 3, 1923.

174,448. TRUCKS. THE CHASE FOUNDRY AND MANUFACTURING COMPANY, Columbus, Ohio.
Filed June 19, 1922. Serial No. 165,668. PUBLISHED JULY 3, 1923.

174,449. AIRSHIPS, SPHERICAL BALLOONS, KITES, AVIATION AND AERONAUTICAL ACCESSORIES—NAMELY, CARS, BULLET AND PUNCTURE PROOF CASINGS FOR GASOLINE TANKS ON BALLOONS, AEROPLANES, BASKETS, AND PONTOONS. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed May 25, 1922. Serial No. 164,498. PUBLISHED JULY 3, 1923.

174,450. ASPHALT, CRUDE AND REFINED, AND PAVING MATERIALS CONTAINING ASPHALT. THE BARBER ASPHALT PAVING COMPANY, Philadelphia, Pa.
Filed May 17, 1922. Serial No. 163,965. PUBLISHED JULY 3, 1923.

174,451. STEEL BOILERS. THE WICKES BOILER CO., Saginaw, Mich.
Filed April 24, 1922. Serial No. 162,860. PUBLISHED JULY 3, 1923.

174,452. ELECTRICAL INSULATING MATERIAL OF UNWOVEN FABRIC IMPREGNATED WITH AN ADHESIVE SUBSTANCE. RESPRO INC., Providence, R. I.
Filed April 12, 1922. Serial No. 162,199. PUBLISHED JUNE 26, 1923.

174,453. CERTAIN NAMED ELECTRICAL APPARATUS. THE SAFETY CAR HEATING & LIGHTING COMPANY, Orange, N. J., and New Haven, Conn.
Filed March 20, 1922. Serial No. 160,978. PUBLISHED JUNE 26, 1923.

174,454. CERTAIN NAMED COOKSTOVES, RANGES, AND HEATERS. HAMMER-BRAY COMPANY, Oakland, Calif.
Filed March 13, 1922. Serial No. 160,604. PUBLISHED JULY 3, 1923.

174,455. AUTOMOBILE AND CYCLE TIRE BOOTS AND PATCHES AND PATCHING MATERIAL FOR RUBBER TIRES OTHER THAN TIRE TAPE AND ADHESIVE GUM. SWARTZ BROTHERS, Chicago, Ill.
Filed February 4, 1922. Serial No. 158,900. PUBLISHED JUNE 26, 1923.

174,456. ADHESIVE PATCHES. MENGO PRODUCTS COMPANY, Pittsburgh, Pa.
Filed July 23, 1921. Serial No. 150,871. PUBLISHED JUNE 26, 1923.

174,457. WATERPROOF CLOTH OR FABRIC WHICH FORMS THE OUTSIDE COVERING FOR TRUNKS AND WHICH IS CEMENTED OR OTHERWISE FASTENED TO AND FORMS PART OF THE TRUNK. HARTMANN TRUNK COMPANY, Racine, Wis.
Filed May 6, 1921. Serial No. 147,289. PUBLISHED JUNE 26, 1923.

174,458. CERTAIN NAMED ELECTRICAL APPARATUS. HARRY A. DOUGLAS, doing business as H. A. D. Sales & Engineering Co., Not Incorporated, Bronson, Mich.
Filed January 27, 1921. Serial No. 142,829. PUBLISHED JUNE 26, 1923.

174,459. CERTAIN MERCHANDISE. BALTIMORE BARGAIN HOUSE, Baltimore and Cumberland, Md.
Filed April 24, 1919. Serial No. 117,793. PUBLISHED JUNE 26, 1923.

174,460. CAPS OR CLOSURES FOR RECEPTACLES SUCH AS BOTTLES, JARS, AND THE LIKE. GEORGE A. HAYNES, INC., Boston, Mass.
Filed May 17, 1923. Serial No. 180,762. PUBLISHED JULY 3, 1923.

174,461. METAL LAMP SHADES. ESKILSTUNA STÅLPRESSNINGS AKTIEBOLAG, Eskilstuna, Sweden.
Filed January 9, 1923. Serial No. 174,361. PUBLISHED JUNE 26, 1923.

174,462. GRIPS FOR STEERING WHEELS OF AUTOMOBILES AND OTHER VEHICLES. WILLIAM F. RIDGE, doing business as Ridged Grip Company, Akron, Ohio.
Filed January 6, 1923. Serial No. 174,261. PUBLISHED JULY 17, 1923.

174,463. FABRIC COVERS FOR AUTOMOBILE ACCESSORIES. ATLAS SPECIALTY MANUFACTURING COMPANY, Chicago, Ill.
Filed January 2, 1923. Serial No. 174,057. PUBLISHED JULY 17, 1923.

174,464. ELECTRICAL BINDING POSTS. THE MARSHALL-GERKEN COMPANY, Toledo, Ohio.
Filed December 23, 1922. Serial No. 173,775. PUBLISHED JUNE 12, 1923.

174,465. LEATHER; WOVEN AND RUBBER BELTING, HOSE, SHEET PACKING, AND ROD AND PISTON PACKING. WARREN & BAILEY CO., Los Angeles, Calif.
Filed November 18, 1922. Serial No. 172,246. PUBLISHED JULY 17, 1923.

174,466. BUILDING BRICKS AND ROOFING TILE. NIELS ESPERSON, doing business as Mid-Continent Clay Company, Peru, Kans.
Filed November 4, 1922. Serial No. 171,586. PUBLISHED JULY 3, 1923.

174,467. ASBESTOS MATS. GILLEN-COLE CO., Portland, Oreg.
Filed October 28, 1922. Serial No. 171,312. PUBLISHED JULY 3, 1923.

174,468. KEROSENE-GAS-MAKING APPLIANCES, ETC. GLORIA LIGHT CO., Chicago, Ill.
Filed October 24, 1922. Serial No. 171,123. PUBLISHED JULY 17, 1923.

174,469. FIRE WAGONS, SURFACE HEATERS, STATIONARY MELTING KETTLES, AND PORTABLE MELTING KETTLES. THE BARBER ASPHALT COMPANY, Philadelphia, Pa.
Filed October 16, 1922. Serial No. 170,748. PUBLISHED JUNE 26, 1923.

174,470. COLORING PREPARATION FOR CONCRETE AND THE LIKE. THE MASTER BUILDERS COMPANY, Cleveland, Ohio.
Filed September 30, 1922. Serial No. 170,148. PUBLISHED JULY 3, 1923.

174,471. MOTOR CARS. FORD MOTOR COMPANY, Highland Park, Mich.
Filed September 28, 1922. Serial No. 170,014. PUBLISHED JULY 17, 1923.

174,472. BLOOD PURIFIER AND BODY BUILDER. WILLIAM FREDERICK RETT, doing business as Nu-Ka-Na Remedy Co., Roselle, N. J.
Filed March 29, 1923. Serial No. 178,284. PUBLISHED JULY 17, 1923.

174,473. HAIR TONIC. GEORGE H. POUND, doing business as Tress Laboratories, Los Angeles, Calif.
Filed March 29, 1923. Serial No. 178,280. PUBLISHED JULY 10, 1923.

174,474. LIQUID DENTIFRICE, A PHARMACEUTICAL PREPARATION. ORTHO MANUFACTURING COMPANY, INC., New York, N. Y.
Filed March 29, 1923. Serial No. 178,276. PUBLISHED JULY 10, 1923.

174,475. RUBBING AND MASSAGE ALCOHOL, SKIN CLEANSER, HAIR TONIC, AND AFTER-SHAVING LOTION. THE MIHALOVITCH CO., Cincinnati, Ohio.
Filed March 29, 1923. Serial No. 178,267. PUBLISHED JULY 17, 1923.

174,476. COD-LIVER-OIL PILLS. THE JENQUINS LABORATORIES, Chicago, Ill.
Filed March 29, 1923. Serial No. 178,252. PUBLISHED JULY 10, 1923.

174,477. WHEELS OF AUTOMOBILES AND INDUSTRIAL CARS. ELLIS RESILIENT WHEEL CORPORATION, Seattle, Wash.
Filed March 29, 1923. Serial No. 178,239. PUBLISHED JULY 17, 1923.

174,478. PREPARATIONS FOR THE TEETH AND GUMS. EDRAL COMPANY, Cincinnati, Ohio.
Filed March 29, 1923. Serial No. 178,238. PUBLISHED JULY 17, 1923.

174,479. TABLETS AND A SALVE FOR TREATING HEMORRHOIDS. CUMBERLAND CHEMICAL CO., Nashville, Tenn.
Filed March 28, 1923. Serial No. 178,167. PUBLISHED JULY 10, 1923.

174,480. TONIC COMPOUND FOR TREATING DISEASES PECULIAR TO WOMEN. CUMBERLAND CHEMICAL CO., Nashville, Tenn.
Filed March 28, 1923. Serial No. 178,166. PUBLISHED JULY 10, 1923.

174,481. FINISHED UPPER-LEATHER CALFSKINS. C. D. BROWN & CO., INC., Rochester, N. Y.
Filed March 28, 1923. Serial No. 178,161. PUBLISHED JULY 17, 1923.

174,482. FINISHED UPPER-LEATHER CALFSKINS. C. D. BROWN & CO., INC., Rochester, N. Y.
Filed March 28, 1923. Serial No. 178,160. PUBLISHED JULY 17, 1923.

174,483. PETROLEUM JELLY FOR MEDICINAL AND TOILET USES. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed March 27, 1923. Serial No. 178,146. PUBLISHED JULY 10, 1923.

174,484. TOILET PREPARATIONS. SOCIETE ANONYME PARFUMERIE VIOLET, Paris, France.
Filed March 27, 1923. Serial No. 178,144. PUBLISHED JULY 17, 1923.

174,485. WELL SCREENS AND WELL STRAINERS. JOSEPH H. MCEVOY, Houston, Tex.
Filed February 5, 1923. Serial No. 175,565. PUBLISHED JULY 24, 1923.

174,486. WELL SCREENS AND WELL STRAINERS. JOSEPH H. MCEVOY, Houston, Tex.
Filed February 5, 1923. Serial No. 175,564. PUBLISHED JULY 24, 1923.

174,487. CANNED FRUITS, CANNED BERRIES, AND CANNED VEGETABLES. RAY-MALING CO. INC., Portland, Oreg.
Filed February 9, 1923. Serial No. 175,811. PUBLISHED JULY 24, 1923.

174,488. CARBON BLACK. GODFREY L. CABOT, INC., Boston, Mass.
Filed February 15, 1923. Serial No. 176,065. PUBLISHED JULY 17, 1923.

174,489. BRONZE POWDERS AND BRONZING LIQUIDS. UNITED STATES BRONZE POWDER WORKS, INC., New York, N. Y.
Filed February 17, 1923. Serial No. 176,230. PUBLISHED JULY 24, 1923.

174,490. POSITIVE PROJECTION SLIDES AND MOTION-PICTURE FILMS BEARING PRINTED MATTER AND PICTURES AND MADE PHOTOGRAPHICALLY OR OTHERWISE AND ISSUED IN SERIES PERIODICALLY. C. V. & R. BATIGNE, New York, N. Y.
Filed February 27, 1923. Serial No. 176,664. PUBLISHED JULY 24, 1923.

174,491. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. GERSON & BREYER, San Francisco, Calif.
Filed March 13, 1923. Serial No. 177,374. PUBLISHED JULY 24, 1923.

174,492. FURNITURE AND AUTOMOBILE POLISH. LARSON-SORAHAN CO., INC., Salem, Oreg.
Filed March 16, 1923. Serial No. 177,563. PUBLISHED JULY 17, 1923.

174,493. COPPER-NICKEL-ALLOY CASTINGS. MANNING, MAXWELL & MOORE, INC., New York, N. Y.
Filed March 16, 1923. Serial No. 177,565. PUBLISHED JULY 24, 1923.

174,494. READY-MIXED PAINT. AMERICAN ASPHALT PAINT CO., Chicago, Ill.
Filed March 26, 1923. Serial No. 178,017. PUBLISHED JULY 17, 1923.

174,495. BEET SUGAR, CANE SUGAR, AND MAPLE SUGAR. UNION SUGAR COMPANY, San Francisco, Calif.
Filed March 29, 1923. Serial No. 178,310. PUBLISHED JULY 24, 1923.

174,496. MECHANICAL MOTIVE PEDAL CONTROL DEVICES. RAYWARD ENGINEERING AND MANUFACTURING CO., Philadelphia, Pa.
Filed April 11, 1923. Serial No. 179,012. PUBLISHED JULY 24, 1923.

174,497. TIRE CHAINS. THE COLUMBUS MCKINNON CHAIN COMPANY, Columbus, Ohio.
Filed April 12, 1923. Serial No. 179,031. PUBLISHED JULY 24, 1923.

174,498. CERTAIN NAMED CLOTHING. SIDNEY JAMES KOBLENZER, doing business as M. Koblenzer & Son, New York, N. Y.
Filed April 14, 1923. Serial No. 179,153. PUBLISHED JULY 24, 1923.

174,499. PIECE GOODS OF WOOL, WORSTED, OR HAIR. R. G. MAXWELL & Co., London, England, and Hawick, Scotland.
Filed June 6, 1923. Serial No. 181,605. PUBLISHED JULY 24, 1923.

174,500. SHEET GLASS. L. J. HOUZE CONVEX GLASS COMPANY, Point Marion, Pa.
Filed May 31, 1923. Serial No. 181,397. PUBLISHED JULY 24, 1923.

174,501. CIGARETTE PAPER. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C.
Filed May 29, 1923. Serial No. 181,349. PUBLISHED JULY 24, 1923.

174,502. CARDBOARD EASELS FOR SUPPORTING ADVERTISING CARDS. NEW METHOD DIE & CUT-OUT CO., INC., Boston, Mass.
Filed May 28, 1923. Serial No. 181,304. PUBLISHED JULY 24, 1923.

174,503. PAINT BRUSHES AND SHAVING BRUSHES. MARSHALL-WELLS COMPANY, Duluth, Minn.
Filed May 25, 1923. Serial No. 181,135. PUBLISHED JULY 24, 1923.

174,504. TOILET PAPER. NORTHERN PAPER MILLS, Green Bay, Wis.
Filed May 16, 1923. Serial No. 180,717. PUBLISHED JULY 24, 1923.

174,505. METAL CURTAIN RODS. THE TURNER & SEYMOUR MANUFACTURING CO., Torrington, Conn.
Filed May 10, 1923. Serial No. 180,456. PUBLISHED JULY 24, 1923.

174,506. BROCADED WOOL PILE FABRIC. BOTANY WORSTED MILLS, Passaic, N. J.
Filed May 9, 1923. Serial No. 180,359. PUBLISHED JULY 24, 1923.

174,507. WOOL PILE FABRIC. BOTANY WORSTED MILLS, Passaic, N. J.
Filed May 9, 1923. Serial No. 180,358. PUBLISHED JULY 24, 1923.

174,508. WOMEN'S SILK HOSIERY. THE COHEN COMPANY, INC., Richmond, Va.
Filed May 7, 1923. Serial No. 180,271. PUBLISHED JULY 24, 1923.

174,509. METAL VALVES FOR PIPE LINES AND THE LIKE. DETROIT LUBRICATOR COMPANY, Detroit, Mich.
Filed April 30, 1923. Serial No. 179,929. PUBLISHED JULY 24, 1923.

174,510. PREPARATION FOR THE PREVENTION AND TREATMENT OF SUNBURN. ABBOTT LABORATORIES, Chicago, Ill.
Filed April 30, 1923. Serial No. 179,914. PUBLISHED JULY 24, 1923.

174,511. FEED-WATER REGULATORS AND PUMP GOVERNORS. NORTHERN EQUIPMENT COMPANY, Erie, Pa.
Filed April 5, 1923. Serial No. 178,625. PUBLISHED JULY 24, 1923.

174,512. SPRINGS AND COIL SPRINGS, HOT-ROLLED AND COLD-DRAWN SEAMLESS STEEL TUBING. SANDVIKENS JERNVERKS AKTIEBOLAG, Sandviken, Sweden.
Filed April 4, 1923. Serial No. 178,572. PUBLISHED JULY 24, 1923.

174,513. FOUNDRY MACHINERY AND PARTS THEREOF. THE PNEULEC MACHINE COMPANY LIMITED, Birmingham, England.
Filed March 30, 1923. Serial No. 178,356. PUBLISHED JULY 24, 1923.

174,514. PREPARATIONS FOR DENTAL TREATMENT. C. M. OWEN, Los Angeles, Calif.
Filed March 29, 1923. Serial No. 178,277. PUBLISHED JULY 24, 1923.

174,515. COFFEE. C. D. KENNY COMPANY, Baltimore, Md.
Filed March 29, 1923. Serial No. 178,257. PUBLISHED JULY 24, 1923.

174,516. FOOD PRODUCT—TO WIT, A COMPOUND IN POWDER FORM FOR PRODUCING PUDDINGS, PIES, CAKES, AND PASTRIES. V. BANOS & Co. INC., Brooklyn, N. Y.
Filed March 24, 1923. Serial No. 177,948. PUBLISHED JULY 24, 1923.

174,517. COFFEELIKE BEVERAGE. KELLOGG COMPANY, Battle Creek, Mich.
Filed March 23, 1923. Serial No. 177,914. PUBLISHED JULY 24, 1923.

174,518. POTATOES AND SALT FISH COMBINED FOR FISH CAKES. GORTON-PEW FISHERIES COMPANY, Gloucester, Mass.
Filed March 23, 1923. Serial No. 177,909. PUBLISHED JULY 24, 1923.

174,519. CANNED FISH. THE JOS. GARNEAU CO., INC., New York, N. Y.
Filed January 25, 1923. Serial No. 175,080. PUBLISHED JULY 24, 1923.

174,520. COD-LIVER OIL. JOHAN DIDRICHSEN, Christiania, Norway.
Filed February 8, 1923. Serial No. 175,715. PUBLISHED JULY 24, 1923.

174,521. POWDER USED IN MAKING CHOCOLATE SAUCES OR SIRUPS FOR FOOD PURPOSES. SIREN MILLS CORPORATION, Chicago, Ill.
Filed February 15, 1923. Serial No. 176,102. PUBLISHED JULY 24, 1923.

174,522. PREPARATION FOR THE TREATMENT OF TUBERCULOSIS. JOHN TRAMSAK, Cleveland, Ohio.
Filed March 5, 1923. Serial No. 177,026. PUBLISHED JULY 24, 1923.

174,523. CANDY. C. PERCEVAL, New York, N. Y.
Filed March 6, 1923. Serial No. 177,048. PUBLISHED JULY 24, 1923.

174,524. LIVER PILLS. PAUL W. MOOMAW, Okemah, Okla.
Filed March 7, 1923. Serial No. 177,097. PUBLISHED JULY 24, 1923.

174,525. CANNED PEAS AND TOMATOES. THE CINCINNATI WHOLESALE GROCERY COMPANY, Cincinnati, Ohio.
Filed March 13, 1923. Serial No. 177,360. PUBLISHED JULY 24, 1923.

174,526. ICE CREAM. HYDROX CORPORATION, Wilmington, Del.
Filed March 21, 1923. Serial No. 177,783. PUBLISHED JULY 24, 1923.

174,527. PEANUT BUTTER. LIVINGSTON SNOW, doing business as Livingston Snow Company, Quitman, Ga.
Filed March 22, 1923. Serial No. 177,877. PUBLISHED JULY 24, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

174,528. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GROVE PARK INN, INC., doing business as Biltmore Industries, Asheville, N. C. Filed Aug. 21, 1923. Serial No. 184,788.

Biltmore Homespun

Particular description of goods.—Woolen Homespun Textile Fabrics in the Piece.
Claims use since Nov. 1, 1918.

174,529. (CLASS 43. THREAD AND YARN.) THE H. K. H. SILK CO., Watertown, Conn. Filed Dec. 21, 1922. Serial No. 173,646.

EUREKA

Particular description of goods.—Pure and Artificial Silk Threads.
Claims use since July 1, 1905.

174,530. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE EUCLID CRANE AND HOIST COMPANY, Euclid, Ohio. Filed Mar. 18, 1922. Serial No. 160,879.

EUCLID

Particular description of goods.—Electric Traveling Cranes, Electric Hoists, Electric Trolleys, and Electric Monorail Trolleys.
Claims use since about Oct. 1, 1909.

174,531. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed May 28, 1923. Serial No. 181,264.

LA SUISSE

Particular description of goods.—Cotton Voile in the Piece.
Claims use since July 26, 1922.

174,532. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SAR-A-LEE COMPANY, Cleveland, Ohio. Filed May 11, 1923. Serial No. 180,501.

SPRED

Particular description of goods.—A Prepared Paste Used as a Sandwich Filler.
Claims use since Mar. 21, 1922.

174,533. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GUSTAVUS HALBERT BRADT, San Francisco, Calif. Filed Apr. 9, 1923. Serial No. 178,812.

ALBANY

Particular description of goods.—Canned Berries and Fruits.
Claims use since October, 1921.

174,534. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WASHINGTON COUNTY CANNING COMPANY, Eastport, Me. Filed Mar. 21, 1923. Serial No. 177,806.

ST. CROIX

Particular description of goods.—Canned Blueberries.
Claims use since 1916.

174,535. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) DURWYLLAN CO., INC., Paterson, N. J. Filed Feb. 23, 1923. Serial No. 176,456.

TRIPLEWEAR

Particular description of goods.—Transmission Lining for Ford Cars.
Claims use since Sept. 15, 1921.

174,536. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATHAN AND COHEN CO., INC., New York, N. Y. Filed June 26, 1923. Serial No. 182,478.

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Particular description of goods.—Cotton Piece Goods.
Claims use since June 1, 1922.

174,537. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) PABST CORPORATION, Milwaukee, Wis. Filed June 22, 1923. Serial No. 182,357.

Kulmbacher

Particular description of goods.—A Cereal Beverage and Beer.
Claims use since Dec. 20, 1919.

174,538. (CLASS 39. CLOTHING.) JEANNE TOURNIER, INC., New York, N. Y. Filed June 8, 1923. Serial No. 181,709.

FRENCH URAL

Particular description of goods.—Men's, Women's, and Children's Hosiery and Knitted Underwear.
Claims use since October, 1921.

174,539. (CLASS 21. ELECTRICAL APPARATUS, MACHINES AND SUPPLIES.) FRANK W. FINKHOUSEN, Fort Wayne, Ind. Filed June 8, 1923. Serial No. 181,685.



Particular description of goods.—Electrically-Operated Vacuum Brushes.
Claims use since Oct. 11, 1921.

174,540. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BROOKLYN METAL STAMPING CO., Brooklyn, N. Y. Filed June 8, 1923. Serial No. 181,671.

"TRI-COIL"

Particular description of goods.—Radio Frequency Transformers.
Claims use since Aug. 15, 1922.

174,541. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BOSWORTH LINE CO., INC., East Homer, N. Y. Filed June 1, 1923. Serial No. 181,433.

Bosworth

Particular description of goods.—Fishing Lines.
Claims use since May 1, 1922.

174,542. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) PABST CORPORATION, Milwaukee, Wis. Filed May 26, 1923. Serial No. 181,209.

THE BREW OF QUALITY

Particular description of goods.—Malt Cereal Beverages to be Sold as Soft Drinks.
Claims use since Dec. 27, 1920.

174,543. (CLASS 38. PRINTS AND PUBLICATIONS.) THE CHARLES T. POWNER CO., Chicago, Ill. Filed May 19, 1923. Serial No. 180,889.

"The House of a Million Books"

Particular description of goods.—Books and Magazines of All Descriptions.
Claims use since Apr. 1, 1919.

174,544. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ANTON J. BAUR, doing business as Baur Chemical Company, N. S. Pittsburgh, Pa. Filed May 18, 1923. Serial No. 180,785.

BAUR'S FIRE SALVE

Particular description of goods.—Salve for Burns and Scalds.
Claims use since about May 1, 1921.

174,545. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. EVERETT BUCHANAN, Jr., doing business as Rose Cerate Company, Elmira, N. Y. Filed May 16, 1923. Serial No. 180,686.

Darby's

Lip Cerate

Particular description of goods.—Antiseptic Salve.
Claims use since 1902.

174,546. (CLASS 39. CLOTHING.) TISSUEPKT UNDERWEAR COMPANY, Indianapolis, Ind. Filed May 12, 1923. Serial No. 180,564.

The Genuine
TISSUEPKT

Particular description of goods.—Knitted and Textile Fabric Underwear for Men, Women, and Children.
Claims use since Oct. 20, 1919.

174,547. (CLASS 39. CLOTHING.) I. GOLDMAN, doing business as Goldman's, San Francisco and Oakland, Calif. Filed May 9, 1923. Serial No. 180,369.

Goldman's
THE HOUSE OF VALUES

Particular description of goods.—Ladies' Suits, Coats, Dresses, Gowns, Hats, and Furs.
Claims use since 1905.

174,548. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) UNION PIANO COMPANY, doing business as Hall & Sons, Chicago, Ill. Filed Apr. 28, 1923. Serial No. 179,896.

Hall & Sons

Particular description of goods.—Pianos.
Claims use since 1912.

174,549. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) WALTER C. PALMER, doing business as W. R. Palmer & Co., Cincinnati, Ohio. Filed Jan. 18, 1923. Serial No. 174,749.

GUARANTEED
FULL WEIGHT
MOPS
TRADE MARK
W. R. PALMER & CO.
MANUFACTURERS
CINCINNATI, O.

Particular description of goods.—Mops.
Claims use since February, 1920.

LABELS

REGISTERED OCTOBER 16, 1923.

26,490.—*Title:* VARNOLE. For a Liquid for Cleaning and Preserving the Luster on Automobiles and Furniture. AMERICAN MANUFACTURING CO., Buffalo, N. Y. Published May 1, 1923.

26,491.—*Title:* SUPERTWIST. For Cotton Piece Goods. AMERICAN PRINTING COMPANY, Fall River, Mass. Published August 29, 1923.

26,492.—*Title:* SKEEZIX. For Candy. FRANK O. KING, Chicago, Ill. Published July 30, 1923.

26,493.—*Title:* REM. For a Medicine for Coughs. THE MARYLAND PHARMACEUTICAL COMPANY, Baltimore, Md. Published July 12, 1923.

26,494.—*Title:* MODESTY SHADOW PANEL. For Undergarments for Women. MODESTY SHADOW PANEL CO., New York, N. Y. Published August 30, 1923.

26,495.—*Title:* WROUGHT IRON FIXTURE. For Lighting Fixtures. MOE-BRIDGES COMPANY, Milwaukee, Wis. Published August 15, 1923.

26,496.—*Title:* SOLID BRASS FIXTURE. For Lighting Fixtures. MOE-BRIDGES COMPANY, Milwaukee, Wis. Published August 15, 1923.

26,497.—*Title:* LAMP. For Lamps. MOE-BRIDGES COMPANY, Milwaukee, Wis. Published August 15, 1923.

26,498.—*Title:* THE EVERY DAY UNDER ARM TOILETTE. For a Vanishing-Cream Deodorant. THE ODORONO COMPANY, Cincinnati, Ohio. Published May 25, 1923.

26,499.—*Title:* VAP. For Sterilized Evaporated Pure Skimmed Milk. VALECIA EVAPORATED MILK CO., Madison, Wis. Published July 8, 1923.

26,500.—*Title:* WARD'S DIABETOST BREAD. For Bread. WARD BAKING COMPANY, New York, N. Y. Published May 10, 1923.

PRINTS

REGISTERED OCTOBER 16, 1923.

6,928.—*Title:* BABY LINCOLN, A DISTINCTIVE MOTOR CAR. For Motor Cars. BABY LINCOLN AUTO CO., San Antonio, Tex. Published September 6, 1923.

6,929.—*Title:* FIFTY-FIFTY. For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published September 1, 1923.

6,930.—*Title:* A BABY SPECIALIST'S ADVICE ABOUT THE FIRST SOLID FOOD. For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published September 8, 1923.

6,931.—*Title:* A GOOD COMPLEXION COMES FROM WITHIN. For Bottled Milk. O. J. GUDE COMPANY, N. Y., New York, N. Y. Published August 13, 1923.

6,932.—*Title:* CORRECT TASTE STRENGTH & FLAVOR. For Coffee. HILLS BROS., San Francisco, Calif. Published May 22, 1923.

6,933.—*Title:* BLEACHO FOR BLEACHING HAIR—USE BLEACHO. For Hair Preparations. JOSEPH HENRY KARP, New York, N. Y. Published January 2, 1923.

6,934.—*Title:* 2/5. For Lumber, Also Doors, Windows, and Interior Finish. THE ALLEN A. SMITH COMPANY, Toledo, Ohio. Published August 15, 1923.

6,935.—*Title:* THE IMPORTANCE OF ONE SHORT WORD. For Drugs. E. R. SQUIBB & SONS, New York, N. Y. Published June 1, 1923.

6,936.—*Title:* NO ONE APPRECIATES A PURE TALCUM AS DOES THE NURSE. For Talcum Powder. E. R. SQUIBB & SONS, New York, N. Y. Published June 1, 1923.

6,937.—*Title:* DIFFERENT FROM ALL OTHERS. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published May 1, 1923.

6,938.—*Title:* A MESSAGE TO NURSES. For Nursery Powder. E. R. SQUIBB & SONS, New York, N. Y. Published May 1, 1923.

6,939.—*Title:* SQUIBB'S DENTAL CREAM. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published May 1, 1923.

6,940.—*Title:* YOUR WHOLE LIFE LONG — ACID-EROSION THREATENS AT THE DANGER LINE. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published June 14, 1923.

6,941.—*Title:* DENTAL AUTHORITIES SAY—FIGHT ACID-EROSION AT "THE DANGER LINE." For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published June 1, 1923.

6,942.—*Title:* ACID-EROSION AT THE DANGER LINE. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published June 27, 1923.

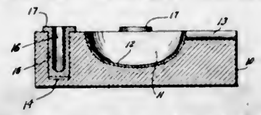
6,943.—*Title:* LIKE NO OTHER TALCUM EVER MADE! For Talcum. E. R. SQUIBB & SONS, New York, N. Y. Published June 15, 1923.

6,944.—*Title:* CANDLES. For Candles. WILL & BAUMER CANDLE CO. INC., Syracuse, N. Y. Published September 10, 1923.

REISSUES.

OCTOBER 16, 1923.

15,698. ASH TRAY. JOHN F. DOWNEY, Providence, R. I., assignor to Universal Ash Tray Company, Inc., Providence, R. I., a Corporation of Rhode Island. Filed June 14, 1922. Serial No. 568,287. Original No. 1,372,124, dated Mar. 22, 1921, Serial No. 389,778, filed June 17, 1920. 4 Claims. (Cl. 131—51.)



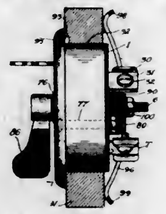
3. A smoker's article of the class described embracing in its construction an ash tray formed with an ash receiving recess and provided with an extinguishing socket open at its upper end and closed at its bottom, the internal diameter of said extinguisher socket being of a size approximately the diameter of a cigarette or the like whereby the lighted end of such cigarette when inserted in the socket will be cut off from the external air and become extinguished, substantially as described.

15,699. APPARATUS FOR PLYING UP TIRE FABRIC. JOHN R. GAMMETER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Aug. 4, 1923. Serial No. 655,792. Original No. 1,458,476, dated June 12, 1923, Serial No. 473,573, filed May 31, 1921. 11 Claims. (Cl. 164—78.)



1. Apparatus for plying up tire fabric comprising means for supporting successive lengths of the work in a longitudinal space corresponding to the circumferential length of a tire, means defining said longitudinal space, and a set of markers adapted to be moved individually into marking position in definite relation to said defining means, to represent corresponding points on successive lengths of the work.

15,700. IGNITION SWITCH. WILLIAM KAISLING, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 17, 1922. Serial No. 544,642. Original No. 1,395,679, dated Nov. 1, 1921, Serial No. 226,622, filed Apr. 4, 1918. 19 Claims. (Cl. 200—44.)

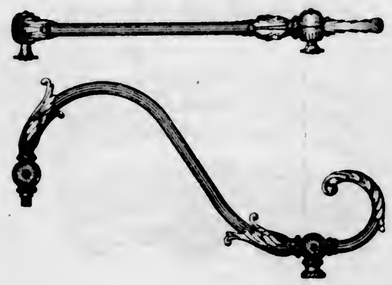


1. A device of the character described including a mounting plate, a pin secured to said plate, a contact maker provided with an orifice adapted to receive said pin, thereby rotatably supporting said contact maker, a locking member supported by said plate for locking said contact maker against movement, a pin carried by said locking member, a second pin supported by said mounting plate, a member secured to said contact maker, and an integrally formed ear for said member adapted to cooperate with said pins to limit the movement of said contact maker.

DESIGNS.

OCTOBER 16, 1923.

63,128. BRIDGE ARM FOR LIGHTING FIXTURES. ABRAHAM COOPER, Brooklyn, N. Y. Filed Feb. 21, 1923. Serial No. 5,237. Term of patent 3½ years.



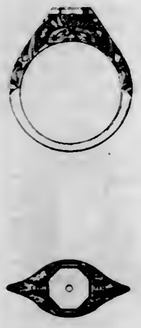
The ornamental design for a bridge arm for lighting fixtures, as shown.

63,129. ROSARY. EDWIN B. EVANS, Providence, R. I., assignor to Waite, Evans Company, a Corporation of Rhode Island. Filed Mar. 27, 1923. Serial No. 5,615. Term of patent 14 years.



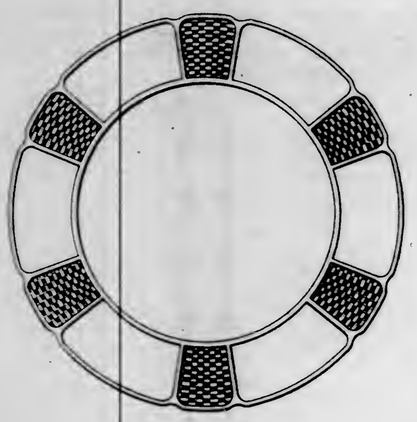
The ornamental design for a rosary, as shown.

63,130. FINGER RING OR ARTICLE OF SIMILAR NATURE. LOUIS FIEDLER, New York, N. Y., assignor to Benjamin Gross Company, Inc., New York, N. Y., a Coropration of New York. Filed May 4, 1923. Serial No. 6,055. Term of patent 3½ years.



The ornamental design for a finger ring or article of similar nature as shown.

63,131. PLATE OR SIMILAR ARTICLE. WALTER H. FIEK, New York, N. Y., assignor to The Rosenthal China Corporation, a Corporation of New York. Filed Apr. 14, 1922. Serial No. 1,753. Term of patent 14 years.



The ornamental design for a plate or similar article, as shown.

63,132. PLATE OR SIMILAR ARTICLE. WALTER H. FIEK, New York, N. Y., assignor to The Rosenthal China Corporation, a Corporation of New York. Filed Apr. 14, 1922. Serial No. 1,754. Term of patent 14 years.



The ornamental design for a plate or similar article, as shown.

63,133. FINGER RING OR ARTICLE OF SIMILAR NATURE. BENJAMIN GROSS, New York, N. Y., assignor to Benjamin Gross Company, Inc., New York, N. Y., a Corporation of New York. Filed May 10, 1923. Serial No. 6,125. Term of patent 3½ years.



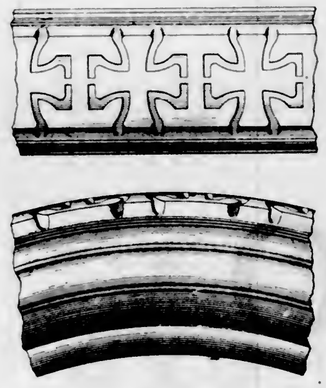
The ornamental design for a finger ring or article of similar nature as shown.

63,134. TEAPOT OR SIMILAR ARTICLE. HENRIK HILLBOM, Wallingford, Conn., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn., a Corporation. Filed Dec. 4, 1922. Serial No. 4,494. Term of patent 7 years.



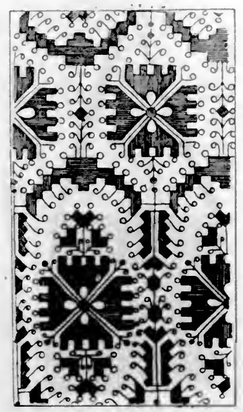
The ornamental design for a teapot or similar article as shown.

63,135. PNEUMATIC TIRE. LOUIS W. HOTTEL, Chicago, Ill. Filed Feb. 12, 1923. Serial No. 5,150. Term of patent 14 years.



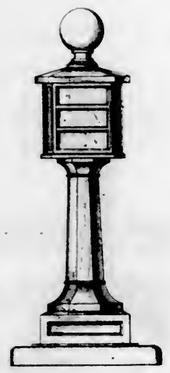
The ornamental design for a pneumatic tire as shown.

63,136. EMBROIDERED FABRIC. CHARLES F. IKLÉ, New York, N. Y. Filed Mar. 8, 1923. Serial No. 5,408. Term of patent 3½ years.



The ornamental design for embroidered fabric, as shown.

63,137. TRAFFIC-REGULATOR SIGNAL CASING. LEBRECHT J. KLUG, Milwaukee, Wis., assignor to Klug & Smith Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 13, 1923. Serial No 5,808. Term of patent 7 years.



The ornamental design for a traffic regulator signal casing, substantially as shown.

63,138. HAND BAG. MURRY MILLER, New York, N. Y., and MAURICE L. KURTZ, Bogota, N. J. Filed Apr. 28, 1923. Serial No. 5,992. Term of patent 3½ years.



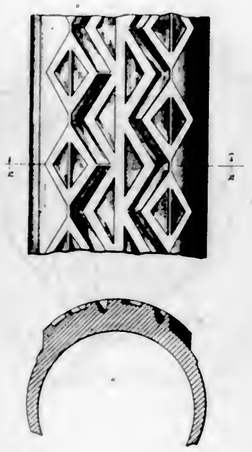
The ornamental design for a hand bag, substantially as shown and described.

63,139. ANDIRON. OLGA POPOFF MULLER and ANDREW PETER POPOFF, Flushing, N. Y., assignors to Decorative Arts League, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 18, 1922. Serial No. 4,325. Term of patent 14 years.



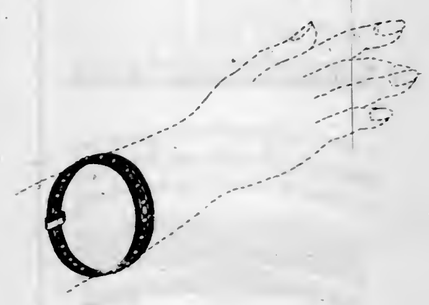
The ornamental design for an andiron, as shown.

63,140. PNEUMATIC TIRE. FRED A. NIEB, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Mar. 3, 1923. Serial No. 5,356. Term of patent 3½ years.



The ornamental design for a pneumatic tire as shown.

63,141. BRACELET. CHARLES H. SHERMAN, North Attleboro, Mass. Filed June 24, 1922. Serial No. 2,809. Term of patent 14 years.



The ornamental design for a bracelet as shown and described.

63,142. ORNAMENT FOR BEDSTEAD FRAMES. BENJAMIN M. FRANK, New York, N. Y., assignor to Greenpoint Metallic Bed Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Feb. 26, 1923. Serial No. 5,287. Term of patent 3½ years.



The ornamental design for an ornament for bedstead frames, as shown.

63,143. ORNAMENT FOR BEDSTEAD FRAMES. BENJAMIN M. FRANK, New York, N. Y., assignor to Greenpoint Metallic Bed Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Feb. 26, 1923. Serial No. 5,288. Term of patent 3½ years.



The ornamental design for an ornament for bedstead frames, as shown.

63,144. ORNAMENT FOR BEDSTEAD FRAMES. BENJAMIN M. FRANK, New York, N. Y., assignor to Greenpoint Metallic Bed Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Feb. 26, 1923. Serial No. 5,289. Term of patent 3½ years.



The ornamental design for an ornament for bedstead frames, as shown.

63,145. ORNAMENT FOR BEDSTEAD FRAMES. BENJAMIN M. FRANK, New York, N. Y., assignor to Greenpoint Metallic Bed Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Feb. 26, 1923. Serial No. 5,290. Term of patent 3½ years.



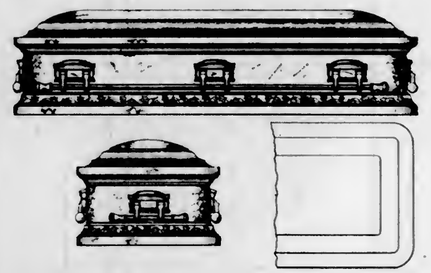
The ornamental design for an ornament for bedstead frames, as shown.

63,146. ORNAMENT FOR BEDSTEAD FRAMES. BENJAMIN M. FRANK, New York, N. Y., assignor to Greenpoint Metallic Bed Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Feb. 26, 1923. Serial No. 5,291. Term of patent 3½ years.



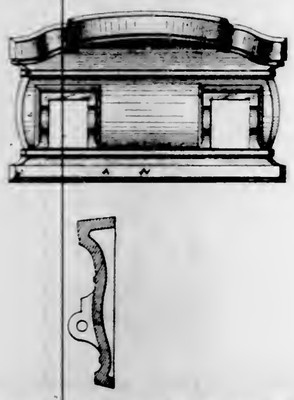
The ornamental design for an ornament for bedstead frames, as shown.

63,147. BURIAL CASE. CHARLES H. HISER, Springfield, Ohio, assignor to The Springfield Metallic Casket Company, Springfield, Ohio., a Corporation of Ohio. Filed Jan. 15, 1923. Serial No. 4,883. Term of patent 14 years.



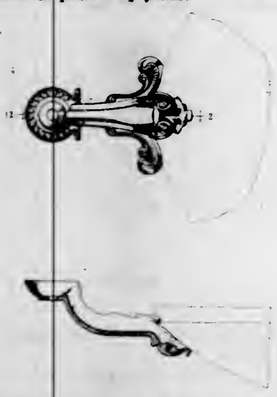
The ornamental design for a burial case as shown.

63,148. EAR FOR HANDLES FOR BURIAL CASES. CHARLES H. HIKER, Springfield, Ohio, assignor to The Springfield Metallic Casket Company, Springfield, Ohio, a Corporation of Ohio. Filed Jan. 15, 1923. Serial No. 4,884. Term of patent 14 years.



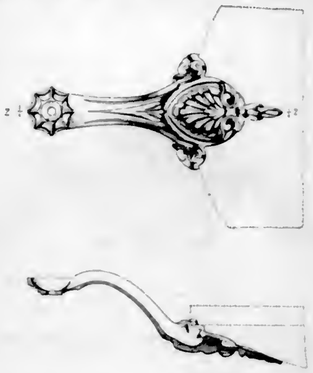
The ornamental design for ears for handles for burial cases as shown.

63,149. CHANDELIER BRACKET. CHARLES RICHTER, New York, N. Y. Filed Feb. 28, 1923. Serial No. 5,303. Term of patent 3½ years.



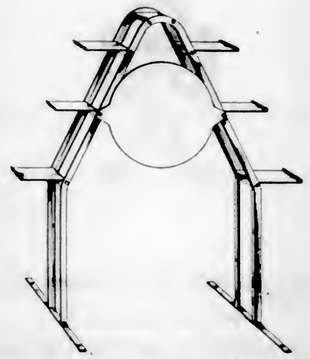
The ornamental design for a chandelier bracket, as shown.

63,150. CHANDELIER BRACKET. CHARLES RICHTER, New York, N. Y. Filed Feb. 28, 1923. Serial No. 5,305. Term of patent 3½ years.



The ornamental design for a chandelier bracket, as shown.

63,151. DISPLAY STAND. WILLARD T. WALKER, Racine, Wis., assignor to Walker Manufacturing Company, Racine, Wis., a Corporation of Wisconsin. Filed Feb. 5, 1923. Serial No. 5,079. Term of patent 14 years.

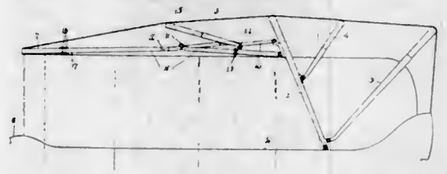


The ornamental design for a display stand, as shown.

PATENTS

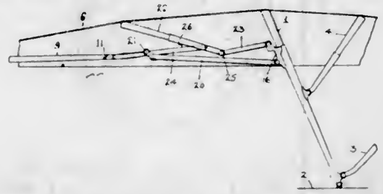
GRANTED OCTOBER 16, 1923.

1,470,589. FOLDABLE VEHICLE TOP. CHARLES R. ALLEN, Ashtabula, Ohio, assignor to The Ashtabula Bow Socket Company, Ashtabula, Ohio, a Corporation of Ohio. Filed Mar. 12, 1918. Serial No. 222,025. 9 Claims. (Cl. 296—116.)



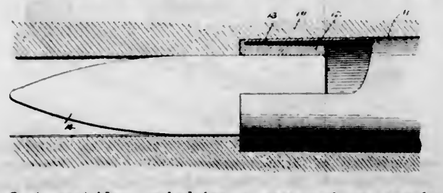
1. In a top for vehicles and the like, the combination with a pair of pivotally supported sockets; of a bow having its ends formed to engage said sockets, respectively; and independent means connecting said bow with said sockets adapted to support the former from the latter when such ends are disengaged therefrom.

1,470,590. TOP FOR VEHICLES AND THE LIKE. CHARLES R. ALLEN, Ashtabula, Ohio, assignor to The Ashtabula Bow Socket Company, Ashtabula, Ohio, a Corporation of Ohio. Filed Aug. 31, 1918. Serial No. 252,144. 4 Claims. (Cl. 296—116.)



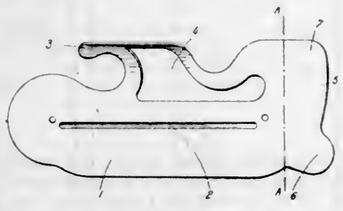
1. In a top for vehicles and the like, the combination of a main bow pivotally attached to the vehicle body; of arms pivotally attached to said main bow, said arms being adapted to lie alongside said main bow in folded condition of the top and to extend substantially horizontally when top is open; an outrigger bow, suitably attached to the free ends of said arms; a floating intermediate bow; and plural independent links connecting spaced points on each side of said intermediate bow with the corresponding sides of said main and outrigger bows, respectively.

1,470,591. GUN AND AMMUNITION THEREFOR. MANOËL FÉLIX BÉHAR, U. S. Army. Filed Apr. 20, 1920. Serial No. 375,370. 3 Claims. (Cl. 102—12.)



3. A cartridge, embodying a case and an annular pocket positioned at the mouth of the case and forming a part thereof for the entrapment of gas, the inner wall of said pocket forming a seat for a projectile.

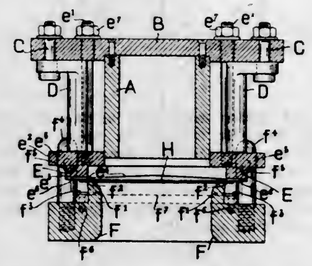
1,470,592. FOOT ARCH. GEORGES VALENTIN MARIE BERTHET, Paris, France. Filed Nov. 30, 1921. Serial No. 518,960. 2 Claims. (Cl. 36—71.)



1. A foot-arch support formed of a single piece of spring sheet metal comprising a narrow longitudinally arched part, a broad anterior part including a lateral extension on the inner side thereof and a projection on the forward outer side of the same, and a wing flared upwardly from the inner side of the arched part and to the rear of the lateral extension of the anterior part.

2. A foot-arch support formed of a single piece of spring sheet metal comprising a narrow longitudinally arched part, a broad anterior part including a lateral extension on the inner side thereof and a projection on the forward outer side of the same, said anterior part being slightly declined toward the side edge of the lateral extension and said projection being slightly inclined upwardly toward its forward edge, and a wing flared upwardly from the inner side of the arched part and to the rear of the lateral extension of the anterior part, the metal of the support being cut away between the arched part and the wing to lessen the resistance to the bending action of the arched part.

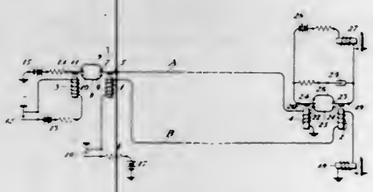
1,470,593. PRESS FOR PRODUCING HOLLOW BODIES. KARL BÖHLE, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Dec. 6, 1920. Serial No. 428,645. 3 Claims. (Cl. 113—49.)



1. A press for producing hollow bodies comprising a die, a press punch, a blanking punch having blanking means and embracing the press punch for stripping the finished stock off the press punch during the rearward

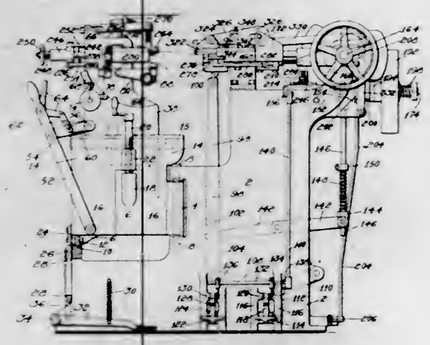
stroke, means for locking the blanking punch to the die and means for locking the blanking punch to the press punch in a readily detachable manner.

1,470,594. SECRET SIGNALING SYSTEM. DAVID E. BRANSON, Danville, Ind., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 13, 1918. Serial No. 254,001. 7 Claims. (Cl. 178—22.)



1. In a signaling system, a main line, sending apparatus for transmitting all of the signal impulses of a message thereover, receiving apparatus at the opposite end of the line, a second line and means controlled by variations of current in said second line for altering the successive signal impulses to render them unintelligible and for restoring them to their original form at the receiving apparatus.

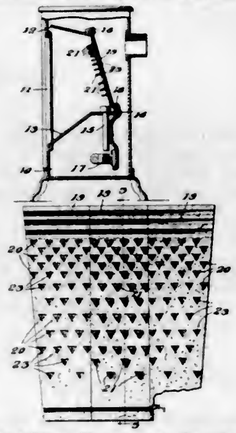
1,470,595. SHOE-BOTTOMING MACHINE. MATTHIAS BROCK, deceased, late of Boston, Mass., by Edward L. Brock, administrator, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 27, 1919. Serial No. 273,464. 115 Claims. (Cl. 12—14.)



1. An end lasting mechanism having, in combination, means for inwardly flanging an upper at one end of a shoe, means for outwardly flanging an upper at said end of a shoe, and operating mechanisms for said flanges means organized for elective use to flange the margin of an upper inwardly over the edge of the shoe bottom or outwardly from said edge.

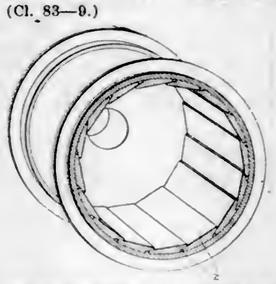
1,470,596. CLAY BACK FOR GAS HEATERS. JACOB E. DAVIS, Ironton, Ohio. Filed Mar. 11, 1922. Serial No. 542,880. 3 Claims. (Cl. 126—86.)

1. In a fire clay back for gas heaters a sectional body formed with a plurality of staggered recesses, separate stud projections adapted to be inserted in said recesses and restricted openings in the back of said body



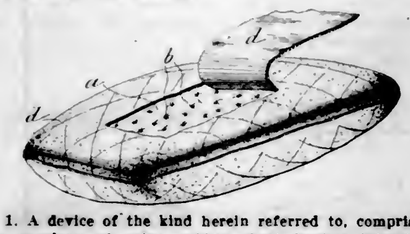
communicating with said recesses, for the purpose described.

1,470,597. ROTARY PULVERIZER. JAMES JOHN DENNY and ROLLA BARNUM WATSON, Cobalt, Ontario, Canada. Filed Dec. 3, 1921. Serial No. 519,593. 2 Claims. (Cl. 83—9.)



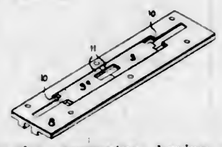
1. In a rotary pulverizer, the combination with the rigid shell and the loose grinding balls, of a lining of resilient material interposed between the shell and the balls and adapted to be temporarily depressed by the balls in immediate contact therewith during the rotation of the pulverizer, said resilient material by its yielding and frictional character being adapted to carry the balls and the material upward with the minimum amount of slippage.

1,470,598. PILLOW, MARINE LIFE-SAVING BELT, AND THE LIKE. MORLAND MICHOLL DESSAU, London, England. Filed Apr. 19, 1923. Serial No. 633,288. 3 Claims. (Cl. 9—11.)



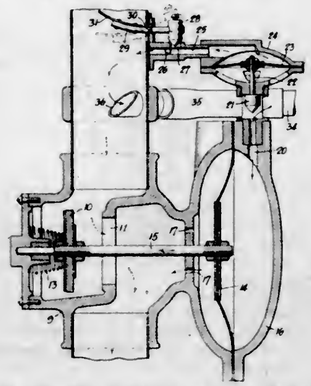
1. A device of the kind herein referred to, comprising an envelope of crêpe rubber sheet having interstices distributed over its surface and a filling of stuffing material confined thereby, tufts of which filling work partially through the interstices, substantially as described.

1,470,599. COIN SLOT. PETER GYSBERT THOMAS DE VILLIERS, Pretoria, Transvaal, South Africa, assignor of one-half to Arthur Rogers-Jenkins, Durban, Natal, Union of South Africa. Filed Dec. 3, 1920. Serial No. 427,951. (Cl. 194—1.)



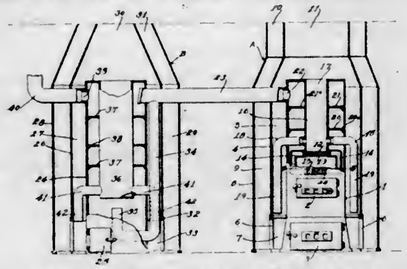
1. Coin-in-the-slot apparatus having several slots adapted to receive coins of different denominations comprising a series of plates slidably mounted end to end beneath the slots, the plates being of such a length that the insertion of a coin in one slot alters the relative positions of the plates so that the other slots are partially closed, means being provided whereby no slot can be completely closed.

1,470,600. PNEUMATIC DISPATCH APPARATUS. WILLIAM H. DINSPEL, New York, N. Y., and EDMUND WEIGELE, Bergenfield, N. J., assignors to Atlas Devices Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 12, 1920. Serial No. 403,017. 18 Claims. (Cl. 243—4.)



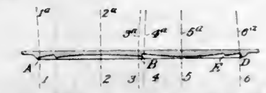
1. In a pneumatic dispatch system, a device which is actuated by the kinetic energy of air flowing through the line to regulate the air flow.

1,470,601. STOVE OR FURNACE ATTACHMENT. FRANK R. DOANE, Vandalia, Mich. Filed Dec. 2, 1922. Serial No. 604,528. 3 Claims. (Cl. 126—108.)



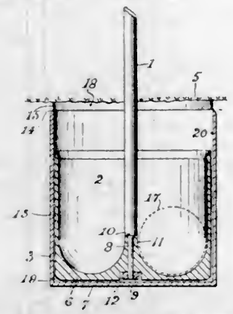
1. In a device of the class described, a heater comprising a furnace; a casing spaced from the furnace to form an air heating compartment; a second casing spaced from the first mentioned casing to form a cold air compartment, the two compartments being in communication for the circulation of air therethrough; a secondary heater comprising a heat chamber, a casing surrounding the heat chamber and spaced therefrom to form an air heating compartment; a second casing surrounding the other casing and spaced therefrom to form a cold air compartment, the two compartments communicating for the circulation of air therethrough and means for connecting the furnace with the heat chamber.

1,470,602. REFRACTOR. WILLIAM A. DOREY, Newark, Ohio, assignor to Holophane Glass Company, Inc., New York, N. Y., a Corporation of New Jersey. Filed Feb. 27, 1920. Serial No. 361,734. 3 Claims. (Cl. 240—48.4.)



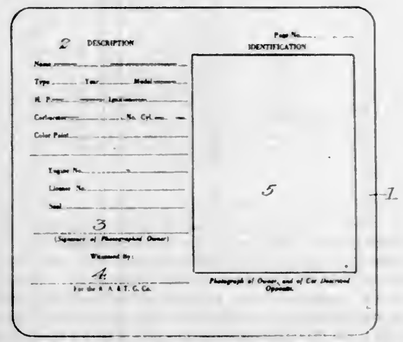
1. A light transmitting cover for a refractor divided vertically into two substantially equal sections, one section comprising similar vertical elements forming a cylindrical plano convex lens adapted to converge parallel rays incident thereon, and the second section comprising similar vertical elements forming a cylindrical plano concave lens adapted to diverge parallel rays incident thereon, the relation of elements being such that the total beam projected will be substantially apioid.

1,470,603. GOLF-CUP DEVICE. RHESA G. DU BOIS, East Orange, N. J. Filed May 28, 1919. Serial No. 300,484. 9 Claims. (Cl. 46—4.)



1. In a golf cup flag device, the combination with a lining for the hole of a putting green, of a cylindrically cup-shaped member forming a flag staff base and which removably fits in and telescopes with said lining.

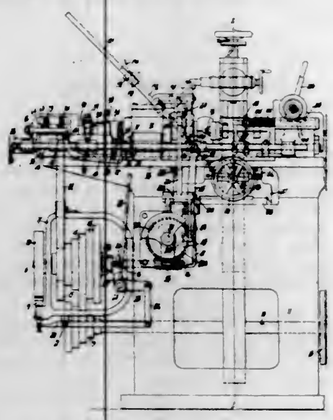
1,470,604. AUTOMOBILE TITLE ABSTRACT AND IDENTIFICATION SYSTEM. LEWIS D. FOX, Fort Worth, Tex. Filed Jan. 25, 1923. Serial No. 614,936. 4 Claims. (Cl. 283—60.)



1. The combination of blanks having appropriately designated spaces to receive the description and identify-

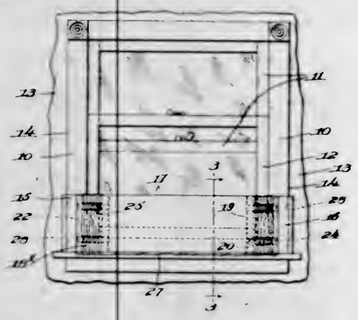
ing data of an automobile, the photograph of the car and the owner thereof; matters of record affecting title to the car; an index of secret identification marking placed on the car; and a record of the secret marking including the character and location thereof.

1,470,605. GRINDING MACHINE. WARREN F. FRASER, Westboro, Mass. Filed Mar. 28, 1921. Serial No. 456,411. 20 Claims. (Cl. 51—105.)



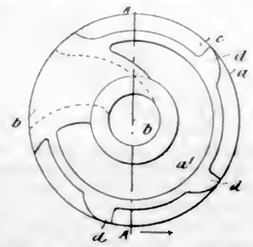
1. A grinding machine having, in combination, means to grip one end of a blank, means to rotatably support the opposite ends of said blank during the grinding operation, means to feed said blank to said gripping and supporting means, means including said gripping and supporting means adapted to rotate said blank, a rotary grinding member, means to move said grinding member into and out of contact with said blank and means to release said blank from said gripping and supporting means.

1,470,606. VENTILATING ATTACHMENT FOR WINDOWS. CHARLES H. GEORGE, Framingham, Mass. Filed Apr. 9, 1921. Serial No. 460,019. 4 Claims. (Cl. 98—31.)



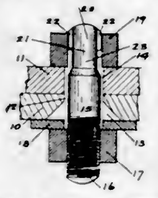
1. In a device of the class described, a window casing; anchor members adapted to temporarily and removably engage said casing; a strip of substantially non-stretchable material intermediate said members; a strip of material so arranged as to contain an appreciable amount of slack therein at each end of said non-stretchable material; and means to cause tension to be exerted on said non-stretchable material and take up slack in said second strip of material upon adjusting said device for use.

1,470,607. IMPELLER FOR CENTRIFUGAL PUMPS. JOHN STANLEY HAZELL, London, England, assignor to Unchokeable Pump, Limited, London, England. Filed Nov. 3, 1922. Serial No. 598,921. 9 Claims. (Cl. 103—115.)



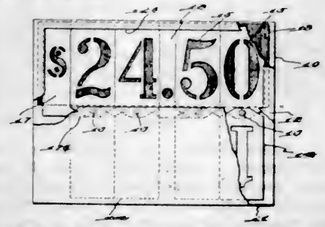
9. A single ported impeller for centrifugal pumps, a cavity in said impeller, a closure for said cavity, means permitting the introduction of liquid into said closed cavity to balance the impeller, other balancing means comprising a plurality of blades upon the sides of the impeller extending to the periphery whereby the diameter of the impeller may be varied without destroying the balance thereof, said blades having surfaces designed to impart an additional impulse to the liquid in the pump casing.

1,470,608. FITTING-UP BOLT. TREDICK KITTREDGE HINE, Newington, Conn. Filed Nov. 24, 1919. Serial No. 340,334. 6 Claims. (Cl. 85—5.)



1. In combination, a pair of structural plates having overlapping portions that are provided with rivet holes in registration, and a fitting-up bolt for holding the said plates together during the assembling operations, the said bolt comprising a body that extends through the said holes, a threaded portion at one end for a nut, and a head removably and rotatively mounted on the other end, the said head and other end having interengaging seats that are operative to connect said head and bolt in one position of the head, and said bolt and head being provided with means for limiting the said rotative movement in one direction to engage said seats and in the other direction to disengage them, and the said head being of equilateral, polygonal form, so as to be adapted to be operated by means of a wrench.

1,470,609. PRICE-EXHIBITING DEVICE. LEWIS S. HODGDON, Bangor, Me. Filed Apr. 13, 1922. Serial No. 552,072. 2 Claims. (Cl. 40—67.)



1. A device of the kind described comprising a holder of sheet material bent to a U-shape with a window open-

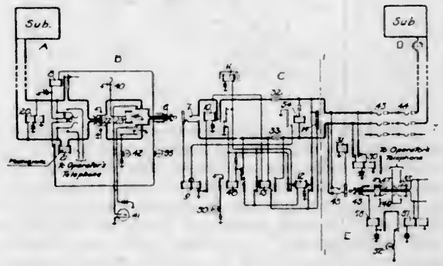
ing in the upper portion of its front wall, a plurality of sets of cards each bearing stenciled indicia pivoted to the back wall of said holder intermediate the height thereof, whereby selected ones thereof may be swung upward to an exposed position back of said window opening with the remainder of such cards depending from their pivots in concealed position in the lower part of the holder, and a plurality of sheets bearing selected and varied color surfaces adapted for selective insertion in said holder behind those of the stenciled cards that are in exposed position.

1,470,610. PARACHUTE APPARATUS. HAROLD EDWARD SHERWIN HOLT, Farnborough, England. Filed Feb. 9, 1921. Serial No. 443,586. 10 Claims. (Cl. 244—21.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



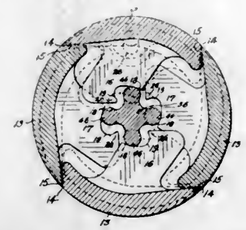
1. A garment having a receptacle, a main parachute in said receptacle, a cover for said receptacle, said cover also having a receptacle, a pilot parachute in the receptacle of the cover, a cord connecting the parachutes together, means to secure and release said cord, a cover for the pilot parachute receptacle, fastening means for the cover of the first named receptacle, means to release said fastening means, fastening means for the cover of the pilot parachute receptacle, and means to release the last named fastening means.

1,470,611. TELEPHONE-EXCHANGE SYSTEM. RAND S. BAILEY, Montclair, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 15, 1919. Serial No. 330,876. 7 Claims. (Cl. 179—27.)



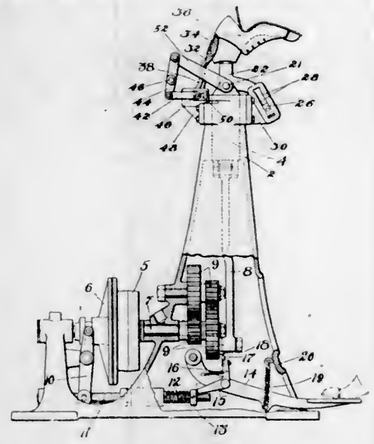
1. In a telephone exchange system, in combination, a two-way trunk circuit comprising a pair of talking conductors terminating in a jack, inductive means connected in and electrically dividing the talking conductors into inner and outer sections, signaling current responsive means connected to the trunk circuit, an impulse response relay, an impulse sending device, means including a link circuit terminating in a plug for connecting the impulse sending device with the trunk circuit, a relay bridged across the inner section and intermittently energized under control of the sending device, and circuit connections controlled by the bridged relay for intermittently bridging the outer section to control the impulse response relay and for short circuiting said signaling current responsive means.

1,470,612. COLLAPSIBLE FORM. GEORGE E. BRONSON, Beacon Falls, Conn., assignor of thirty per cent to Leroy S. Andrew, Naugatuck, Conn. Filed Oct. 20, 1921. Serial No. 508,984. 20 Claims. (Cl. 22—173.)



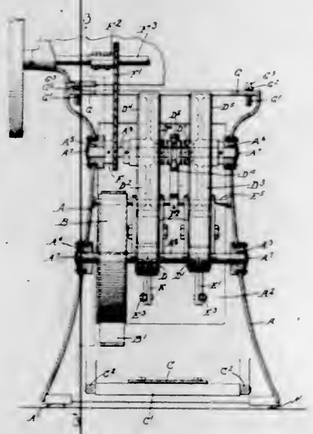
14. A mold for casting tubular shapes comprising an outer hollow section, a core bit in one end thereof, a runnerbox spaced from the opposite end thereof and provided with pouring openings, a collapsible core comprising a plurality of sections, discs mounted in the core bit and runnerbox, means for securing the ends of the sections to the discs, and means mounted to turn in the discs to hold the sections in expanded relation and move the same to collapsed relation.

1,470,613. RELASTING MACHINE. ELI BROTHERS, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 2, 1917. Serial No. 146,250. 49 Claims. (Cl. 12—15.)



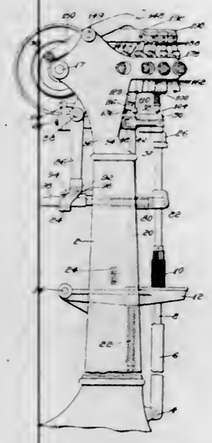
3. A machine of the class described having, in combination, a last engaging member, a plunger on which said member is pivoted, means for moving the plunger lengthwise, means for causing said member to swing the last bodily in the direction of its toe end during said movement of the plunger, and means for engaging a shoe in which the last is partially inserted, said shoe engaging means being arranged to co-operate with said member to cause the last to be forced into the shoe.

1,470,614. SLICING MACHINE. WILLIAM J. CAMPBELL, Indianapolis, Ind., assignor to American Slicing Machine Co., Chicago, Ill., a Corporation of New York. Filed Apr. 15, 1922. Serial No. 552,983. 18 Claims. (Cl. 146—102.)



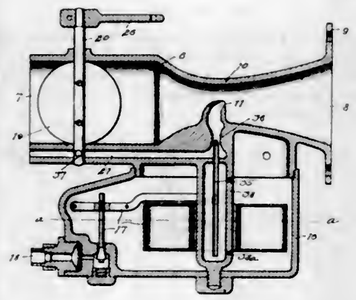
1. A combined slicing machine support and power driving unit, comprising a pedestal casing, a motor mounted within said casing, and a variable speed connection adapted to connect said motor with the driving shaft of a slicing machine supported upon the casing.

1,470,615. ASSEMBLING AND LASTING MACHINE. WILLIAM G. CHENEY, Marlboro, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 30, 1918. Serial No. 268,209. 71 Claims. (Cl. 12—12.)



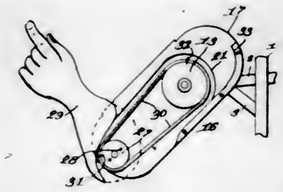
1. In a machine of the class described, the combination of shoe supporting means movable lengthwise of the shoe, a series of separate rolls normally out of contact with the shoe and acting substantially in the plane of the heel seat of the sole of a shoe on the supporting means and arranged with their axes substantially parallel with the edge of the last adjacent to which they act, and means for operating the rolls to lay the upper against the heel seat of the sole while the supporting means is at rest.

1,470,616. CARBURETOR. DON COLE, Chicago, Ill., assignor to Stromberg Motor Devices Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 16, 1916. Serial No. 84,594. 1 Claim. (Cl. 261—46.)



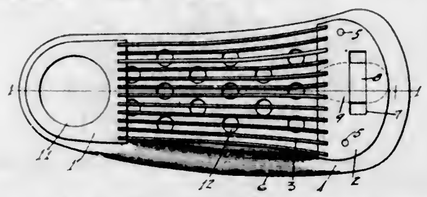
In a carburetor, a comparatively large carbureting passageway having an air inlet and a mixture outlet, a source of liquid fuel, a comparatively small passageway having means for the admission of air at one end and terminating at the other end in a fuel and air nozzle feeding to said carbureting passageway, a well fed from said liquid fuel source and having a connection to the atmosphere independent of said comparatively small passageway, a liquid fuel nozzle leading from said well and to said comparatively small passageway, and valve mechanism simultaneously but oppositely controlling said carbureting passageway and the air inlet end of said comparatively small passageway.

1,470,617. DIRECTION INDICATOR. GEORGE A. CUMMINGS, Spokane, Wash., assignor of one-half to Charles H. Cummings, Spokane, Wash. Filed June 19, 1922. Serial No. 569,203. 4 Claims. (Cl. 116—52.)



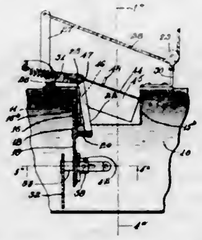
1. A direction indicator mechanism for attachment to an automobile, comprising a frame having a block provided with supporting and journalling sleeves in intersecting and right angular relation to each other, an indicator casing having a slot in one side thereof, a major chain wheel in said casing and having a stud fixed in said supporting sleeve, a casing bevel gear rotatively mounted on the periphery of said supporting sleeve and fixed to and supporting said casing, an operating shaft rotatable in said journalling sleeve and having a bevel gear meshing with said casing gear, a minor chain wheel journalled in said casing, an indicator mounted on said minor wheel and adapted to be moved through said slot into and out of said casing, and a chain trained about said major and minor wheels.

1,470,618. ARCH SUPPORT. CHARLES L. CRAINE, Meadville, Pa., assignor of one-half to Edward C. Smith, Meadville, Pa. Filed Aug. 7, 1922. Serial No. 580,043. 1 Claim. (Cl. 36—71.)



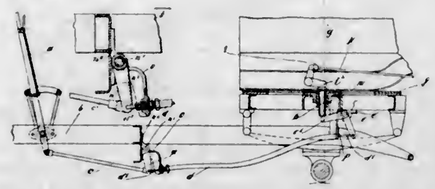
In an arch support, the combination of end metallic plates; and a series of connecting resilient wires of arched form extending between the plates and rigidly connected thereto.

1,470,619. STOVEPIPE DAMPER. CHARLES L. GARGAN and JOSEPH EUSTACE LEINEN, Rochester, N. Y., assignors to Charles D. Leonard, Rochester, N. Y. Filed Sept. 17, 1921. Serial No. 501,388. 5 Claims. (Cl. 126—292.)



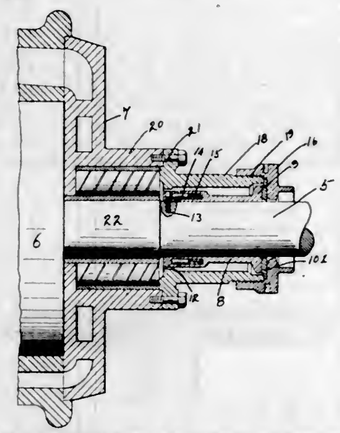
1. In a device of the class described, the combination with a draft pipe having a lateral opening therein of a damper supported in the pipe adjacent said lateral opening for movement to selectively obstruct said opening or said pipe and comprising a plurality of plates each adapted to partially close said pipe, and means for adjusting the position of one of said plates on the damper to vary the degree of obstruction of the draft when said damper is moved to draft obstructing position.

1,470,620. BRAKE MECHANISM FOR MOTOR VEHICLES. PERCY GARIBALDI HUGH, Southend, England. Filed Aug. 27, 1921. Serial No. 496,133. 1 Claim. (Cl. 188—3.)



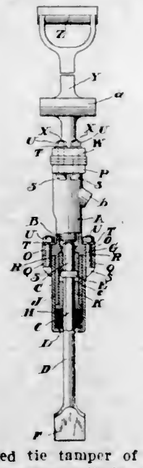
In brake mechanism for motor vehicles having a tractor and a trailer pivotally connected, the combination of a rotatable and vertically displaceable bolt mounted coaxially in a hollow perch pin, a lever mounted on the front part of the trailer and having one end in engagement with the top of the said bolt, a connection from the other end of this lever to at least one brake, a shaft mounted on the rear part of the tractor, a lever on this shaft whose end engages the lower end of the bolt, a second lever on the shaft, a flexible cable connected to the end of this lever, a tubular casing surrounding this flexible cable, a short shaft mounted on the tractor frame, a lever on this shaft to which the other end of the flexible cable is connected, a second lever on this shaft and a connection from this second lever to the brake lever.

1,470,621. STUFFING BOX. HENRY O. JACKSON, Denver, Colo., assignor to The Jackson Compressor Company, a Corporation of Colorado. Filed Dec. 16, 1919, Serial No. 345,220. Renewed Aug. 23, 1923. 1 Claim. (Cl. 286—7.)



Means for maintaining a fluid-tight joint around a rotatable shaft, comprising in combination with the shaft a sleeve, a collar secured to the inner extremity of a portion of the shaft to be sealed, a pin connection between the collar and the sleeve, the pin engaging registering recesses in the two parts, a spring located in the recess of one part and serving to act on the sleeve to move it outwardly on the shaft, a wearing washer at the outer extremity of the sleeve against which the sleeve bears, a stationary casing surrounding the sleeve and out of contact therewith and including a screw-cap applied to the body of said casing and clamping the wearing washer between the two members of the casing.

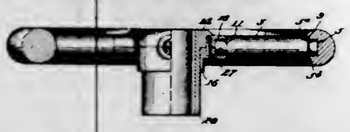
1,470,622. FLUID-ACTUATED TIE TAMPER. FRANCIS A. JIMERSON, Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 20, 1921. Serial No. 486,306. 4 Claims. (Cl. 121—31.)



1. A fluid actuated tie tamper of the hammer type, comprising a fluid pressure cylinder having bolt flanges

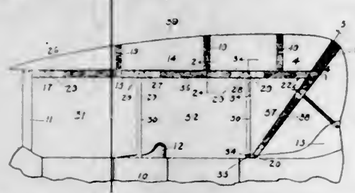
at the front and rear ends extending outwardly in axial planes at right angles to each other, front and back heads having outwardly extending flanges cooperating with the cylinder flanges, securing bolts for the front head and separate securing bolts for the back head, at least one exhaust outlet for the cylinder located at the forward end between the front cylinder flanges, the back head having a rearwardly extending handle bar provided with an end grip lying substantially in the axial plane of the front end bolts, and a forward transverse grip extending perpendicularly from the handle bar substantially parallel to the end grip in a plane at right angles to the axial plane of said end grip, a tie tamper steel having a broadened working end, and a shank provided with a collar extending through the front head into the cylinder in position to receive the impact of the blows of the hammer, and an elastic buffer in the front head forwardly of the said collar, said shank being slidable but non-rotatable in the cylinder and front head.

1,470,623. STEERING WHEEL. CARL W. JOHNSON, Onaway, Mich., assignor of one-half to Karl Hodge, Poughkeepsie, N. Y. Filed Aug. 29, 1921. Serial No. 496,418. 2 Claims. (Cl. 74—33.)



1. A steering wheel having, in combination, a rim provided with a plurality of radial recesses of two diameters connected by an inclined wall, an arm having its outer end reduced and constructed to enter the smaller recess while the major portion of the arm enters the larger recess, said arm having a reduced inner end, and a two-part hub provided with a radial projection having a portion of each part formed as a semicircular socket, and means for securing the two parts of the hub together to clamp the inner end of the arm therebetween.

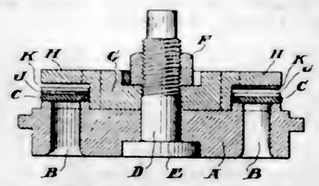
1,470,624. AUTOMOBILE TOP. GEORGE H. JOHNSTON, Buffalo, N. Y., assignor to Lover Top and Converter Company, Inc., Buffalo, N. Y., a Corporation of New York. Filed Mar. 16, 1922. Serial No. 544,262. 4 Claims. (Cl. 296—102.)



1. In an automobile top, a rigid frame consisting of a partly channelled main bow, outwardly faced channelled side rails carried by said main bow, cross bows connecting said side rails and comprising wood bars resting on the upper flanges of said side rails and metal strips projecting b yond the ends of said bars through slots in the upper flanges into the channels in said side rails, uprights fastened to the inner faces of said side rails, and wood fillers in the channels of said side rails and main bow.

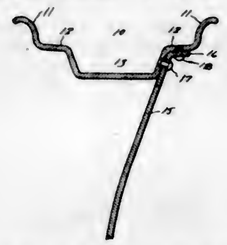
1,470,625. PLATE VALVE. JOSEPH W. JONES, Corning, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 5, 1922. Serial No. 592,467. 6 Claims. (Cl. 251—119.)

1. A plate valve comprising a valve seat, a circular valve plate, a stop plate extending over the valve plate, and a pair of oppositely coiled springs, having substantially the diameter of the valve plate superimposed one



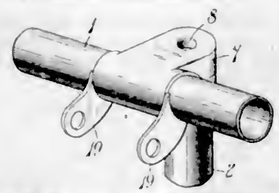
on the other and arranged between the valve plate and stop plate.

1,470,626. DISK WHEEL. HARRY W. KRANZ, Cleveland, Ohio, assignor to The Hydraulic Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 7, 1922. Serial No. 580,067. 4 Claims. (Cl. 301—63.)



4. The combination with a tire carrying rim having an inwardly extending base portion and spaced tire bead seats upon opposite sides of said base portion, and a disk having circumferentially extending radially spaced offset portions, the outer of said offset portions being secured to the under side of one of said tire bead seats and the inner of said offset portions being secured to the bottom of said base portion, and the radial portion of the disk between the circumferential offset portions being connected to the adjacent wall of the inwardly projecting base portion of said rim.

1,470,627. HANDLEBAR FOR CYCLES AND MOTOR CYCLES. HENRY ARTHUR LAMPLUGH, Tyseley, near Birmingham, England. Filed Aug. 13, 1921. Serial No. 492,008. 9 Claims. (Cl. 208—115.)

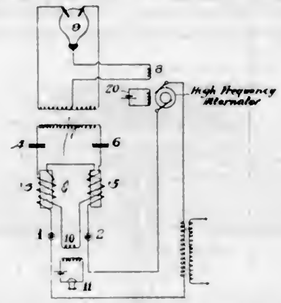


1. A handle bar joint for cycles comprising a handle bar, a stem, a lug pressed to the required shape and bent into engagement with said handle bar and with said stem, means for positively securing said handle bar within said lug and means for positively and permanently uniting said lug to said stem mechanically, whereby brazing, welding or like operations are avoided, and detachment of said lug is prevented.

1,470,628. DEVICE FOR HIGH-FREQUENCY SIGNALING. MARIUS LATOUR, Paris, France. Filed July 17, 1920. Serial No. 397,140. 2 Claims. (Cl. 179—171.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

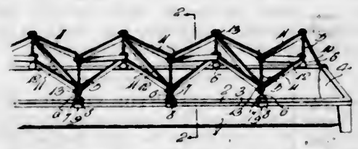
1. In the art of signaling by means of a high frequency alternator and the like, a method consisting in modulating

the mean amplitude of a high frequency alternating current, in rectifying the thus modulated high frequency



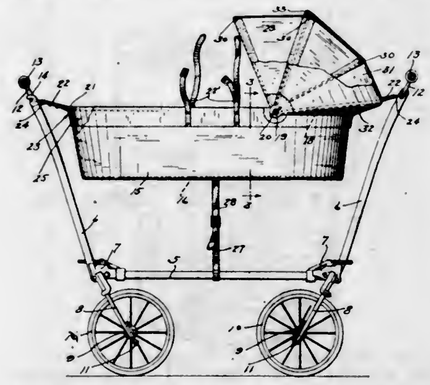
current and in feeding the exciting circuit of the alternator with the thus modulated and rectified high frequency current.

1,470,629. HOG-TROUGH GUARD. WILLIAM T. LAWHEAD, Calnesville, Mo. Filed Dec. 19, 1921. Serial No. 523,382. 2 Claims. (Cl. 119—58.)



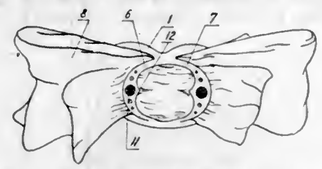
1. The combination with a hog trough having flanges along its sides extending outwardly and then downwardly, of a guard provided with standards having outwardly extending feet resting on the outwardly extending portions of said flanges, the outer ends of said feet being extended downwardly and provided with hooks receiving the lower edges of the downwardly projecting portions of said flanges.

1,470,630. SUPPLEMENTAL COVER FOR BABY-CARRIAGE HOODS. JULIUS A. MAHR, Minneapolis, Minn. Original application filed June 6, 1921, Serial No. 475,218. Divided and this application filed Mar. 20, 1922. Serial No. 545,100. 9 Claims. (Cl. 280—47.)



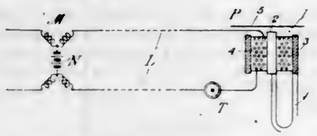
1. A baby carriage body having an adjustable hood, and a hood extension attached to the body, overlapping the hood and having in its upper edge an elastic cord for cooperation with the hood to adjustably connect the hood extension thereto.

1,470,631. RIBBON-HOLDING DEVICE. EDOUARD ALFRED MARION, Paris, France. Filed Nov. 3, 1922. Serial No. 598,828. 2 Claims. (Cl. 132—47.)



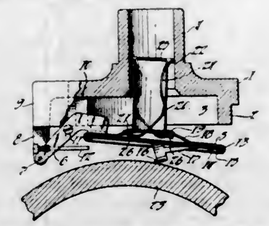
1. A ribbon holding device affording the appearance of a bow but wherein it is not necessary to actually tie the ribbon in a knot, constituted of a thin plate formed of light and slightly elastic substance wherein are formed a plurality of branches by the cutting process, the said branches being symmetrically disposed and having the form of a figure 8 with cut-out central portions, the said ribbon being inserted between the base portion and the said branches and drawn through the central cut-out portions.

1,470,632. EQUALIZING TRANSMISSION. WILLIAM H. MARTIN, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 21, 1921. Serial No. 463,294. 6 Claims. (Cl. 179—1.)



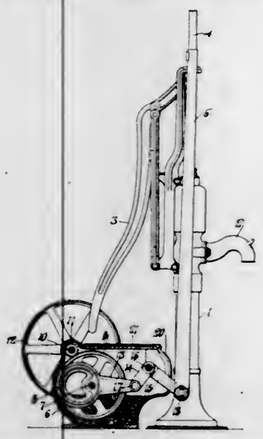
1. In a signaling system, a plurality of transmission lines of different lengths, a common source of current supply therefor, and receiving instruments associated with each line, each receiving instrument having a magnetic structure consisting of a permanent magnet, and a direct current coil supplied with current from said source, said magnetic structure being so designed that the combined flux due to the permanent magnet and the direct current coil will be such as to render the receiver most efficient for a current value smaller than the current value corresponding to the point of maximum efficiency when the direct current coil is used alone.

1,470,633. PHONOGRAPH RECORDER. FREDERICK P. MCINTOSH, East Orange, N. J., assignor to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Filed Feb. 17, 1921. Serial No. 445,608. 9 Claims. (Cl. 274—24.)



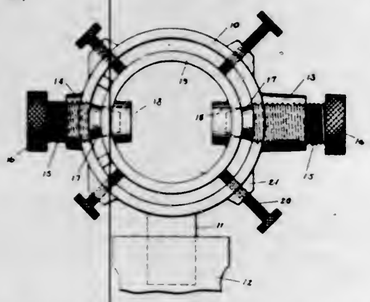
1. In a device of the class described, the combination with a body portion having an upwardly extending hollow neck, of a diaphragm support movably mounted on said body portion and having an apertured upstanding dome, and a tube the upper end of which extends into said neck and the lower end of which is provided with a flange conforming to and slidably engaging the upper or outer surface of said dome about the aperture therein, substantially as described.

1,470,634. POWER HEAD FOR OPERATING PISTON RODS OF PUMPS. PHILIP A. MYERS, Ashland, Ohio, assignor to The F. E. Myers & Brother Company, Ashland, Ohio, a Corporation of Ohio. Filed Oct. 12, 1921. Serial No. 507,220. 2 Claims. (Cl. 74—14.)



1. In a power head, the combination with a casing and power mechanism mounted therein, of an oscillating actuator supported by the casing and having an arm within the casing connected to the operating mechanism, and a pair of arms outside of the casing adapted for connection with pitmen.

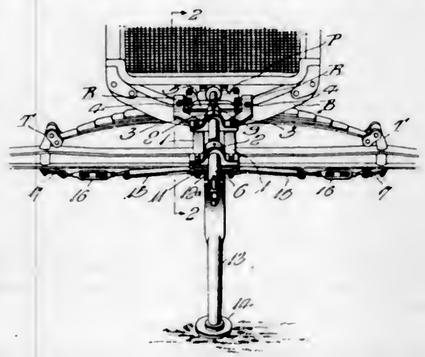
1,470,635. APPARATUS FOR RESURFACING BEARINGS. KARL O. MUEHLBERG, Manitowoc, Wis. Filed Mar. 6, 1921. Serial No. 467,429. 5 Claims. (Cl. 77—2.)



1. Apparatus of the class described comprising a hollow holding member, a pair of apertured oppositely transversely disposed bosses on said member, adjustable means adapted to position a piston or the like, having oppositely transversely disposed bearing apertures, in said member so that the apertures of the piston are in alignment with the apertures of said bosses, said bosses being internally threaded, a bushing positioned in one and a releasable split nut associated with the other of said bosses, a rotatable shaft positioned in said bushing and having a threaded portion in engagement with said nut, and a resurfacing tool fixed on said shaft for the purpose described.

1,470,636. POWER ATTACHMENT FOR AUTOMOBILES. LOUIS A. NORMANDIN, Swansea Center, Mass. Filed Feb. 20, 1922. Serial No. 537,920. 4 Claims. (Cl. 180—53.)

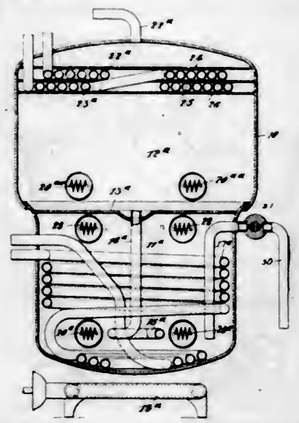
1. In a device of the class described, a supporting frame for a rotary shaft including spaced arms connected together at their inner ends by a cross-piece disposed inward of the extremities of said arms, said cross-piece constituting an abutment to engage with an existing projecting part, and the portions of the arms extending beyond said cross-piece forming spaced guides for disposition on opposite sides of said part, said guides being adapted to bear downwardly on another part of the chassis, and means cooperative with the outer end of said frame for binding said guides and abutment tightly against the respective parts which they engage.



1,470,637. ACETYLENE-ALDEHYDE FUSIBLE RESIN. EMIL E. NOVOTNY, Logan, Pa., and DONALD S. KENDALL, Glen Ridge, N. J., assignors to John Stogdell Stokes, Huntingdon Valley Post Office, Pa. Filed Jan. 17, 1922. Serial No. 529,945. 12 Claims. (Cl. 260—2.)

4. A new composition of matter comprising a permanently fusible, soluble condensation product of an acetylene resin and an aldehyde and a hardening agent comprising a hexa-methylene-tetramin, said composition being convertible by heat into a hard, insoluble, infusible body.

1,470,638. ABSORBING STILL FOR REFRIGERATING APPARATUS. STUART OTTO and JACK CARL JANKUS, Scranton, Pa.; said Jankus assignor to said Otto. Filed Jan. 10, 1923. Serial No. 611,810. 15 Claims. (Cl. 62—118.)



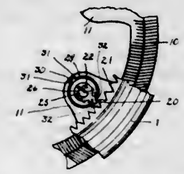
1. An absorbing still for refrigerating apparatus including two chambers, one adapted to serve as the main distillation chamber and having means for the admission and escape of the refrigerant gas and the other adapted to serve as an absorption chamber, and means affording communication between the two chambers, said means having orifices adjacent to the bottom of each chamber, said absorption chamber having no other inlet or outlet, whereby during the heating of the still substantially all of the strong liquor is forced out of the absorption chamber through said communication means to the distillation chamber by the accumulation of gas pressure in the absorption chamber above the said orifice which forms the inlet and outlet of said chamber, and the gas is thereafter distilled off from the liquid while in the distillation chamber, and whereby upon the cooling of the still and reduction of gas pressure in said absorption chamber weak liquid is returned to said absorption chamber through said communication means and the gas thereafter delivered through said communication means to the lower part of the liquid in the absorption chamber.

1,470,639. HOSE ATTACHMENT. CHARLES PELLER, Okmulgee, Okla. Filed Nov. 23, 1922. Serial No. 602,898. 1 Claim. (Cl. 248—29.)



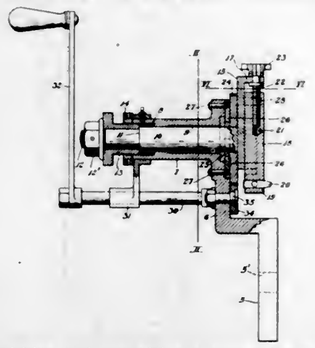
In a hose supporter, a rod having its lower end pointed and formed to be forced into the earth, said rod having its upper end bent to have a handle and having an intermediate portion thereof bent into the form of a semi-circle to form a rigid jaw, the parts of the rod immediately adjacent to the ends of the jaw being flat and disposed in alinement, a movable jaw of semi-circular form having flat ends extending outwardly therefrom and engaged with said flat parts of the rod, bolts projected through the respective engaged flat parts of the jaws, and wing nuts on the bolts.

1,470,640. FISHING REEL. JOHN BARCLAY PELLETIER, Old Forge, N. Y. Filed Mar. 7, 1921. Serial No. 450,298. 2 Claims. (Cl. 242—84.5.)



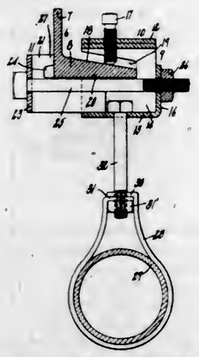
1. In a fishing reel, an annular casing, teeth formed on the inner periphery of said annular casing, a drag for engaging said teeth, a drum located within said casing, a handle for turning said drum, a shaft carrying a cam journaled in said handle, and means for the rotation of said shaft, whereby to engage and release said friction drag.

1,470,641. SURFACE-DRESSING MACHINE. FRANS POCHILA, Duquesne, Pa., assignor of one-half to Steven Babic, Duquesne, Pa. Filed June 8, 1921. Serial No. 475,973. 8 Claims. (Cl. 82—4.)



1. A finishing tool comprising a supporting member, a cutter block rotatably carried thereby, cutting means on the block, means for rotating the block embodying gearing having a block turning pin, and means for moving the block transversely to its axis of rotation.

1,470,642. CLAMP SUPPORT. WILLIAM A. READY, Brookline, Mass., assignor to National Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Mar. 10, 1921. Serial No. 451,219. 2 Claims. (Cl. 248—32.)

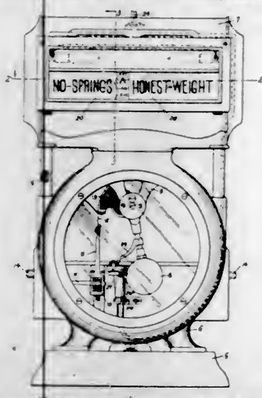


1. A clamp support having, in combination, two oppositely disposed members adapted to simultaneously engage opposite sides of a flanged beam, one of said members embodying a bottom portion, two side portions, two overlapping top portions and an outer end portion, said side portions each having a slot adapted to receive one flange of said beam and a bolt connecting said members together and extending through said end portion; whereby said members may be drawn toward each other and into engagement with opposite sides of said beam and a screw having screw-threaded engagement with the top portions of said member and adapted to engage the upper face of said flange whereby the lower edges of said slots may be brought into contact with the lower face of said flange and the side portions of said member held in position relatively to each other.

1,470,643. WEIGHING SCALE. ORWELL C. REEVES, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Aug. 14, 1916, Serial No. 114,914. Renewed Oct. 1, 1919. Serial No. 327,742. 7 Claims. (Cl. 116—129.)

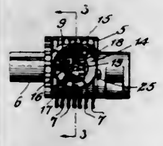
3. In a scale, a casing, a cylinder rotatably mounted therein and bearing weight indications on its periphery,

a frame secured in the casing substantially parallel with and at the rear of the cylinder, and a plate carried by said frame and having an opening therein aligning with the weight indications on said cylinder, said plate being



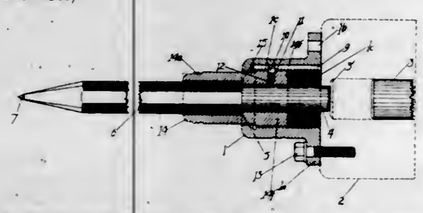
arranged diagonally across the frame whereby the side walls of the opening are disposed at the inner edge of the frame and closely approach the periphery of the cylinder, and the outer ends of the plate are adjacent the outer edge of the frame.

1,470,644. PRINTING DIE. GEORGE H. REOCH, Brooklyn, N. Y., assignor to The International Postal Supply Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 28, 1922. Serial No. 603,737. 8 Claims. (Cl. 101—375.)



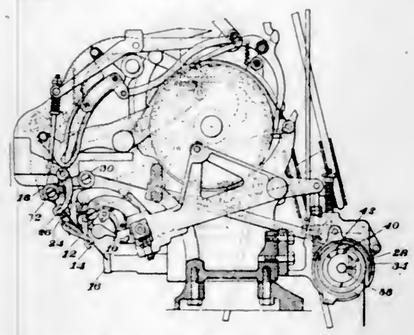
1. In a printing die, a die body having a printing face and an opening extending through said die body, provided with a recess formed in one of the walls of said opening; interlocking type bars adapted to be assembled within said opening with their type characters in proper relation with the printing face of the die body, means for releasably locking the type bars within the opening of the die body, and means carried in the recess of the die body and engaging one of said type bars automatically acting to project the type bars from one end of said opening when the bars are released.

1,470,645. PORTABLE RECIPROCATING POWER TOOL. JOHN J. ROBERTS, Louisville, Ky. Filed Oct. 25, 1920. Serial No. 419,470. 4 Claims. (Cl. 125—33.)



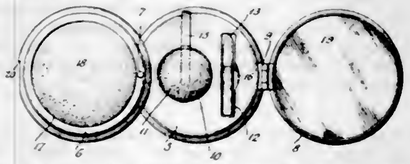
1. In a power hammer, the combination of a casing, a reciprocating part within adapted to plunge in normal operation back and forth a predetermined distance, a nozzle attached to the hammer end of said casing and provided with threaded axial boring, a deep longitudinal slot in one side of the threaded boring, and a tool chuck adapted with threads to screw longitudinally back and forth in said nozzle, to lengthen or shorten the operative zone of said reciprocating part, an axial boring in said tool chuck, a counterboring in the outer end of said chuck, a bit provided with shank and shoulder adapted to fit slidably into said chuck a predetermined distance, a spring pressed detent radially disposed fitted in the side of said chuck and adapted in the screwing of said chuck inwardly or outwardly in said nozzle to spring into said longitudinal slot and hold said chuck from rotating further in normal operation, as described.

1,470,646. SEWING MACHINE. WILLIAM THOMAS BUCKINGHAM ROBERTS, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Nov. 17, 1916, Serial No. 131,905. Divided and this application filed June 24, 1919. Serial No. 306,475. 11 Claims. (Cl. 112—59.)



1. A sewing machine having, in combination, stitch forming devices including a hook needle, a looper, a thread arm, a positively actuated main take-up, and a thread tension mounted to have an auxiliary take-up action.

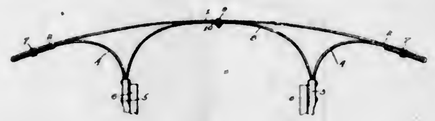
1,470,647. VANITY CASE. RAMÓN M. RODRIQUEZ, New York, N. Y. Filed Feb. 10, 1923. Serial No. 618,222. 2 Claims. (Cl. 132—83.)



1. A vanity case comprising a main section containing a cosmetic, an auxiliary section pivoted to said main section and containing a cosmetic and a cover section including an interior mirror pivoted to said main section at a point diametrically opposed to the pivot of said auxiliary section, said sections being movable to positions in linear alignment with each other to coincidentally expose said cosmetics and mirror for use, and to folded positions in registry with each other, said cover section co-operating with the auxiliary section to maintain all of said sections in their folded positions.

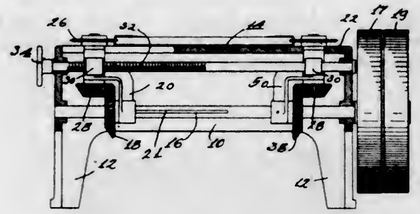
1,470,648. BUMPER. JAMES H. SAGER, Rochester, N. Y., assignor to J. H. Sager Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 29, 1921. Serial No. 504,026. 1 Claim. (Cl. 293—55.)

A bumper comprising a front bumper bar formed of a single piece of spring material wider at its central portion than at its ends, a rear bow narrower in width than the central portion, abutting the rear face of the front bar at its wide and central portion in a plane with the



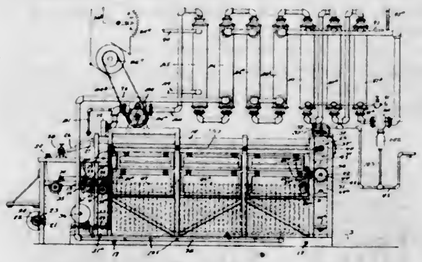
narrow end portions, bolts passing through the central portion above and below the rear bow, and a clamping plate held by said bolts on the rear face of the rear bow.

1,470,649. MOP-CUTTING MACHINE. WILLIAM SEVERNS, Chicago, Ill. Filed Aug. 17, 1921. Serial No. 493,013. 3 Claims. (Cl. 300—16.)



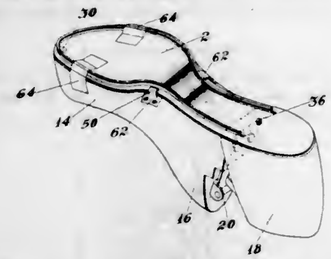
1. In apparatus for making mops, a frame having parallel grooved sides upon which the yarn is wound, in combination with spaced rotary cutting elements between which the frame is passed with the grooved sides adjacent the cutting elements.

1,470,650. METHOD AND APPARATUS FOR COATING AND DRYING FABRIC AND OTHER MATERIAL. PAUL S. SMITH, West Barrington, R. I., assignor, by mesne assignments, to O'Bannon Company, West Barrington, R. I., a Corporation of Massachusetts. Filed May 25, 1920. Serial No. 384,228. 13 Claims. (Cl. 34—48.)



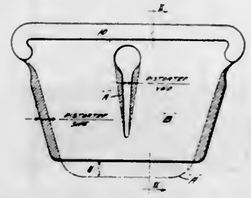
3. The method of recovering the solvent from the coating of fabrics such solvent consisting of a mixture containing a highly volatile solvent the vapor of which is explosive when mixed with a critical proportion of air, which consists in passing a current of drying medium in a drying chamber counter to the direction of movement of the moving coated fabric in the chamber until the fabric is dry, at such speed and temperature that the proportion of explosive solvent vapor in the drying medium is not great enough to form an explosive mixture, removing the drying medium containing the solvent to a condensing apparatus and condensing the solvent by refrigeration and again passing the drying medium from which the solvent has been recovered into contact with the coated fabric.

1,470,651. ART OF MAKING SHOES. WILLIAM C. STEWART, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 25, 1918. Serial No. 230,715. 15 Claims. (Cl. 12—141.)



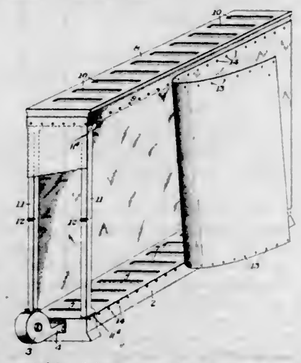
1. That improvement in the art of making shoes which comprises first providing a sole and a last, one having an inclined recess and the other a projection to co-operate with the recess and also one having a second projection and the other a surface to co-operate therewith, and then applying the sole to the bottom of the last and locating the sole in a predetermined relation to the contour of the last by engaging the said projections respectively with the said recess and the said surface.

1,470,652. GRAPHIC DISPLAY CHART. HAROLD W. SLAUSON, Hartsdale, N. Y., assignor to Kelly-Springfield Tire Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 26, 1923. Serial No. 634,917. 2 Claims. (Cl. 35—12.)



1. A foldable graphic chart of the character described, comprising, duplex leaves, permanently hinged, one such leaf showing the article it simulates in a normal physical state, and another leaf showing a different physical state when the simulated article is in a deformed condition.

1,470,653. PORTABLE CLOTHES DRIER. FRANCIS C. SULLIVAN, Braddock, Pa. Filed Mar. 5, 1920, Serial No. 363,397. Renewed Feb. 1, 1923. Serial No. 577,490. 22 Claims. (Cl. 34—19.)



10. A portable drier, comprising top and bottom portions, a drying chamber intermeidate said portions, and

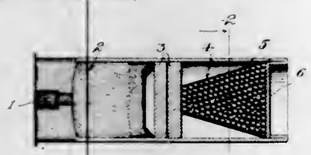
detachable fabric side and end walls for said closure, said base portion having an air distributing chamber therein provided with a plurality of air discharge openings directed into the drying chamber, said top portion having a plurality of clothes supporting means for suspending the clothes within said drying chamber, substantially as described.

1,470,654. TRUSS. CHARLES H. SUMNER, Terre Haute, Ind. Filed Mar. 30, 1922. Serial No. 548,089. 2 Claims. (Cl. 128—106.)



1. A truss including a flat rigid plate having its upper end bent upon itself and directed toward the wearer's body with the extremity terminating in close spaced relation to the body portion of the plate to provide a roll to bear against the abdomen, said plate being designed to be connected with the body encircling straps in a manner to permit it to fulcrum thereon, and the pad being intended to be pivotally connected to the inner face of said plate to bear against the hernia.

1,470,655. CARTRIDGE. EVERETT M. SWEELEY, Boise, Idaho. Filed July 21, 1920. Serial No. 397,823. 3 Claims. (Cl. 102—15.)



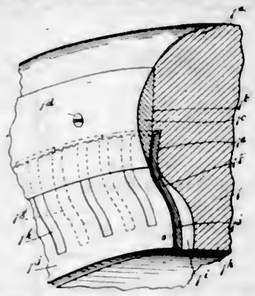
3. In a cartridge the combination with a shell having a base wad and closure wad engaging the walls of the cartridge case, of a tapered, breakable, column shaper wholly within the walls of the cartridge case between said wads forming an annular space in the shell and touching said shell only at the outer end of said cartridge.

1,470,656. PROCESS FOR THE PRODUCTION OF ETHYL CHLORIDE. WILHELM TRAUBE, Berlin, Germany. Filed Feb. 4, 1922. Serial No. 534,207. 3 Claims. (Cl. 260—162.)

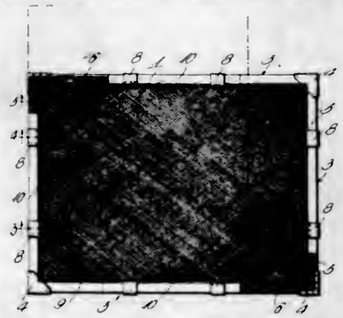
1. A process for the production of ethyl chloride consisting in treating chlorsulphonic ethylester with hydrchloric acid.

1,470,657. APPARATUS FOR VULCANIZING TIRE CASINGS. JOHN TRAUM, Coshocton, Ohio. Filed July 13, 1922. Serial No. 574,599. 14 Claims. (Cl. 18—45.)

14. A core for vulcanizing tire casings, comprising an annular form having an outside surface conforming in contour with the inside of the casing to be formed and provided with segmental cut-outs forming flat parallel extending sides, corresponding segmental plates filling said segmental cut-outs and secured to said sides and conforming to and continuing the outer contour of the core, and laminated flexibly connected tire heel engaging plates extending from said segmental side plates to complete the inner periphery of the core when compressed by the tire casing forming mold parts, said laminations being provided with radial slots forming overlapping radial members, the outer members engaging the inner heel portions of the tire being tapered to their edges resting on the inner radial members.

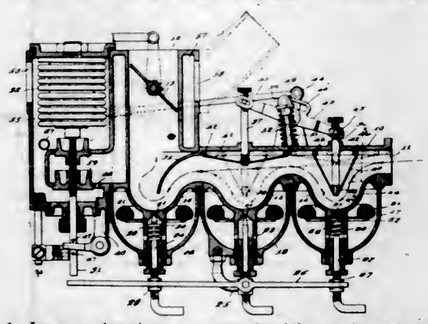


1,470,658. WINDOW SCREEN. JOSEPH F. WALL, Westfield, N. J. Filed Nov. 7, 1921, Serial No. 513,424. Renewed Mar. 8, 1923. 4 Claims. (Cl. 156—38.)



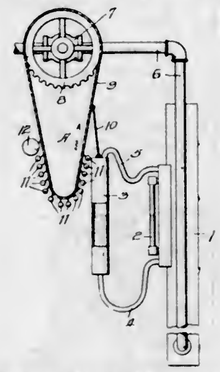
3. A window screen comprising a sheet of woven wire whose strands extend diagonally with respect to its edges and are free to move on each other, a frame with which the edges of the sheet are slidably connected, the side bars of said frame being formed of relatively slidable sections, and spring means acting on said sections to insure uniform sliding of opposed side bars.

1,470,659. MULTIFLUID CARBURETOR. GRANVILLE G. WESTERFIELD, Indianapolis, Ind. Filed Apr. 19, 1920. Serial No. 374,933. 7 Claims. (Cl. 123—127.)



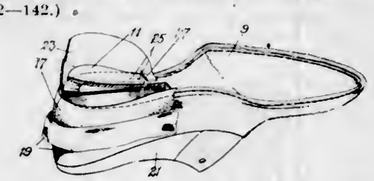
1. In a carburetor, a water-atomizing unit and two fuel-atomizing units for different fuels, and a thermostatic element oppositely controlling said fuel-atomizing units and also controlling said water-atomizing unit to put it into operation at higher temperature and cut it out of operation at lower temperature.

1,470,660. FEED-WATER-LEVEL REGULATOR. FERD WOLF, St. Louis, Mo. Filed Dec. 6, 1920. Serial No. 428,808. 2 Claims. (Cl. 137—101.)



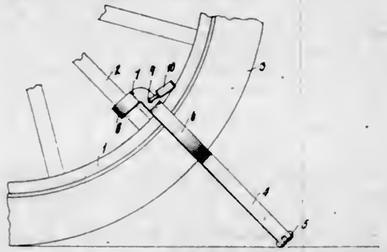
1. In a feed-water device for boilers, the combination, with the vertically movable feed-water tube, and the valve of the feed water-pipe, opened and closed by the movement of the feed water tube, of a chain mounted to ride over the wheel of a valve stem, a connection between the chain and the feed-water tube, and a series of weights connected to the chain the combined weight of which is equal to the number of pounds of water that can be carried within the feed-water tube.

1,470,661. MANUFACTURE OF MOLDED-COUNTER TURNED SHOES. HARRY L. YEATON, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 28, 1920, Serial No. 392,217. Renewed Jan. 27, 1922. Serial No. 532,262. 26 Claims. (Cl. 12—142.)



1. The method of making a turned shoe which comprises sewing an upper to a sole having a flap formed at its heel end, the sewing extending forwardly of a line adjacent to the heel breast line, attaching the inturned flange of a molded counter which is otherwise unattached to the shoe to the flap and completing the manufacture of the shoe.

1,470,662. AUTOMOBILE LOCK. WILLIAM BARNETT, Portland, Oreg. Filed Jan. 3, 1920. Serial No. 349,244. 1 Claim. (Cl. 70—90.)



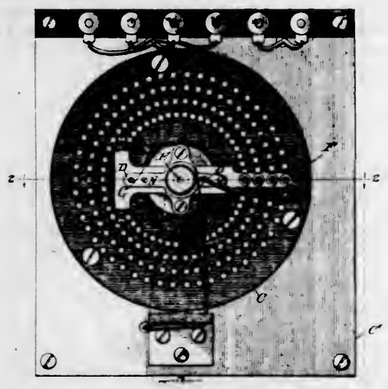
A device of the class described including a pair of strips hingedly connected at one end, said strips being curved a distance from their hinged ends so as to form arcuate shaped portions for embracing a tire, the free ends of the strips being offset at right angles to the plane of the arcuate shaped portions and curved into arcuate shaped spoke engaging members, and said strips provided with apertures between the arcuate shaped portions for receiving a lock.

1,470,663. ELEVATOR CONVEYER. ROBERT KNOX BARNETT, Philadelphia, Pa. Filed Sept. 9, 1920. Serial No. 409,045. 1 Claim. (Cl. 198—155.)



The combination in an elevator conveyer of a series of pivotally mounted conveying elements; a receiving member having an extension normally projecting into the path of said elements and movable thereby to permit their passage; with a cam adjustable at will into and out of the path of movement of said conveying elements for tripping them after they have passed said extension.

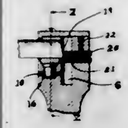
1,470,664. AUTOMATIC TELEPHONE-EXCHANGE SYSTEM. FRANK R. MCBERTY, Evanston, Ill., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Nov. 12, 1903. Serial No. 180,858. 178 Claims. (Cl 179—18.)



1. In a telephone exchange system, the combination with telephone lines extending to two sets of connection terminals, of a contact carrying arm associated with each said set of terminals, a connecting circuit connecting said arms, mechanism adapted when released to move said arms adjacent to the terminals of a calling and a called line, respectively, magnets adapted when energized to release said mechanisms, magnets adapted

when energized to draw said arms down upon the contacts of said lines, and circuits for said magnets controlled at the station of the calling line.

1,470,665. PIVOT BEARING. FRANK H. CHAPMAN, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Sept. 11, 1922. Serial No. 587,259. 14 Claims. (Cl. 74—104.)



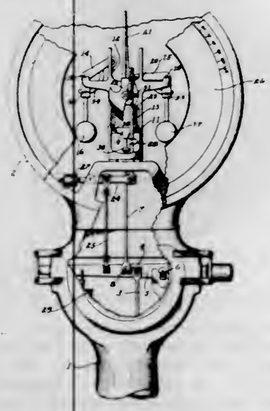
1. In a device of the class described, in combination, a member having a cone-shaped socket therein, and a bearing piece having a portion of its surface of spherical form resting in said socket, said bearing piece having a V-shaped groove therein, the apex of said groove passing through the center of curvature of said spherical surface.

1,470,666. WEIGHING SCALE. CLARENCE H. HAPGOOD, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Feb. 18, 1920. Serial No. 359,750. 9 Claims. (Cl. 265—68.)



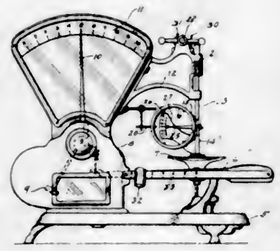
1. In a scale, in combination, a frame, a lever, fulcrum pivots supporting said lever upon said frame, and resilient means in substantial alignment with the axis of said pivots connecting said lever and said frame.

1,470,667. WEIGHING SCALE. CLARENCE H. HAPGOOD, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed June 3, 1921. Serial No. 474,812. 8 Claims. (Cl. 265—62.)



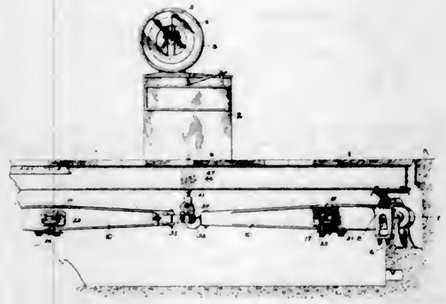
1. In a weighing scale, in combination, a load-offsetting pendulum tending to swing through increasing arcs in offsetting equal increments of load, a load-offsetting pendulum tending to swing through decreasing arcs in offsetting equal increments of load, and means for causing said pendulums to move to substantially the same extent in offsetting a load.

1,470,668. TESTING MACHINE FOR PISTON RINGS AND THE LIKE. HALVOR O. HEM, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Feb. 18, 1920. Serial No. 359,606. 8 Claims. (Cl. 265—17.)



1. In a device of the class described, in combination, a flexible band adapted to surround a compressible body, means for axially positioning said body in said band, means for tightening said band about said body and thereby applying compressive force thereto, and means for measuring the expansive force exerted by the body under compression.

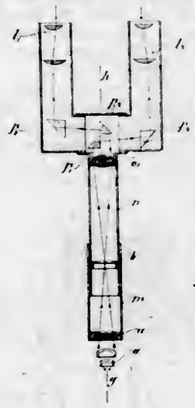
1,470,669. WEIGHING SCALE. HALVOR O. HEM, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Feb. 25, 1920. Serial No. 361,250. 21 Claims. (Cl. 265—71.)



1. In a scale, in combination, a long lever having fulcrum, load and nose pivots and an intermediate pivot, a short lever having fulcrum, load and nose pivots, all of the pivots of both of said levers lying in substantially the same horizontal plane, and means whereby the nose pivot of the short lever is supported from the intermediate pivot of the long lever.

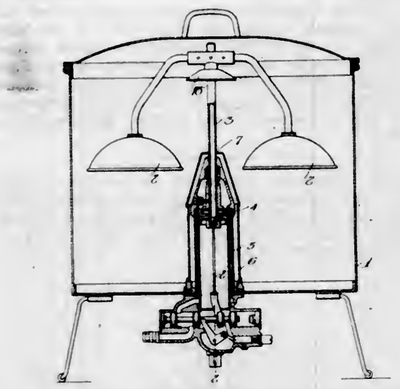
1,470,670. STEREOSCOPIC EYEPIECE FOR MICROSCOPES. OSKAR HEIMSTÄDT, Vienna, Austria. Filed Feb. 23, 1921. Serial No. 447,097. 6 Claims. (Cl. 88—39.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. The combination of a microscope having a primary objective, and an auxiliary system, a binocular eye-piece for the microscope having a single objective lens, and means whereby the auxiliary system may be brought close



to the primary objective, the combined focal length of the latter and the auxiliary system being less than the focal length of the objective lens.

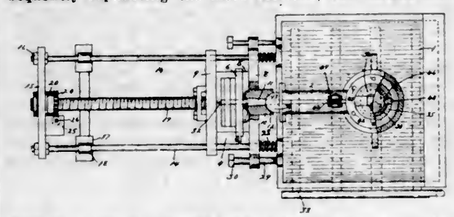
1,470,671. CLOTHES-WASHING MACHINE. FRANK A. ADAMS, Rochester, N. Y., assignor to B. C. Olney, Rome, N. Y., and J. O. Dailey, Rochester, N. Y. Filed Sept. 30, 1921. Serial No. 504,411. 11 Claims. (Cl. 259—102.)



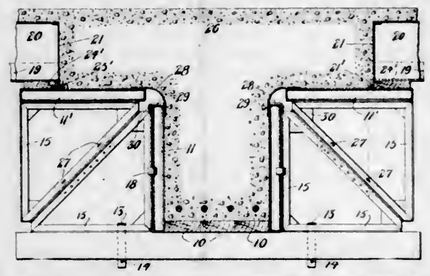
1. In a clothes washing machine, the combination with a receptacle, of a water agitator movable in the receptacle, a hydraulic motor arranged in the receptacle for operating said agitator, a housing surrounding said motor and spaced therefrom to afford a water conductor with an outlet at the top, an exhaust chamber into which exhaust water passes from the hydraulic motor, and means for establishing communication between said exhaust chamber and said water conductor.

1,470,672. DIE-CASTING MACHINE. JOSEPH AMBROSE, Detroit, Mich., assignor to Michigan Smelting and Refining Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 24, 1921. Serial No. 439,538. 14 Claims. (Cl. 22—70.)

1. The combination with a nozzle for the passage of molten metal, of a sectional mold, a passageway for placing the cavity within said mold in communication with said nozzle, means for moving said sectional mold bodily away from said nozzle, stationary means for subsequently separating the mold sections, and means movable with one of the mold sections for moving the gate from said passageway during the separation of the mold sections.



1,470,673. MOLD FORM. NILS FREDERICK AMBURSEN, Pittsburgh, Pa., assignor to Uni-Form Company, a Corporation of Massachusetts. Filed Aug. 30, 1919. Serial No. 320,778. 14 Claims. (Cl. 25—131.5.)



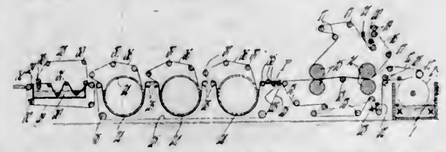
1. In mold form apparatus, a plurality of substantially complementary supporting members capable of independent use to support load in one plane and provided with means whereby they may be coupled for conjoint use to support load in another plane.

12. A corner filler for concrete work comprising a bent sheet metal plate with clips for engaging an adjacent edge of the mold structure extending laterally from a face thereof.

1,470,674. METHOD OF PREPARING A CEMENTITIOUS COMPOSITION. JOSEPH HAY AMIES, Philadelphia, Pa. Filed Mar. 30, 1921. Serial No. 457,099. 10 Claims. (Cl. 106—30.)

1. The method of preparing a cementitious composition which consists in taking common earth in comminuted form and mixing same in a solution composed of sodium carbonate and water and then mixing therewith sodium silicate.

1,470,675. METHOD FOR MAKING PAPER HAVING THE APPEARANCE OF HANDMADE PAPER. JAMES H. A. ARMSTRONG, Holyoke, Mass., assignor to American Writing Paper Company, a Corporation of New Jersey. Filed Oct. 10, 1921. Serial No. 506,873. 1 Claim. (Cl. 92—42.)



In a paper making machine, in combination, a pulp vat, a rotating cylinder comprising a making screen having spaced apart imperforate strips projecting from the surface thereof for indenting the web of pulp formed thereon in divisional lines, a series of pairs of press rolls, top and bottom felts engaging opposite sides of the pulp

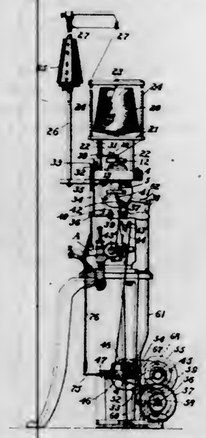
web as it passes successively through said press rolls, breaker rolls for receiving said pulp web after passing through said press rolls, said breaker rolls acting frictionally to pull said web apart into individual sheets along the indented lines of division thereof, one or more drier cylinders, and coacting top and bottom felts for receiving said divided sheets of pulp from said breaker rolls and carrying the same around said drier cylinder or cylinders, a sizing bath, and top and bottom contacting felts for receiving said divided sheets of pulp from said drier cylinder or cylinders and carrying the same in and out of said sizing bath.

1,470,676. TEMPERATURE RELAY. NIELS K. ANDERSON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 18, 1919. Serial No. 291,152. 6 Claims. (Cl. 200—22.)



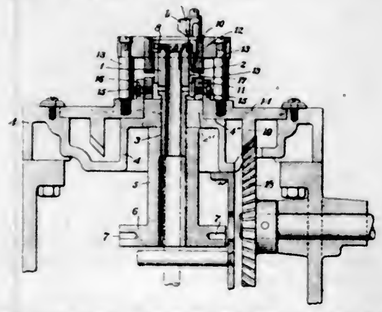
1. A thermometer comprising a capillary tube, a body of mercury intermediately disposed therein, means for heating the mercury only and means for preventing the position of the lower end of the body of mercury from being influenced by the temperature of the ambient air.

1,470,677. KNITTING MACHINE. HERBERT THEODORE BALLARD, Norristown, Pa. Filed Mar. 26, 1921. Serial No. 455,924. 9 Claims. (Cl. 66—9.)



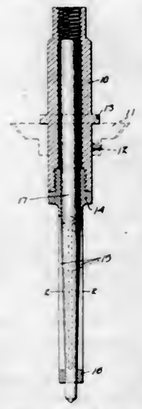
6. In combination with a knitting machine, a spool to receive the fabric therefrom, a driving drum for the spool upon which the fabric carried by the spool rests, whereby the revolution of the spool varies as the diameter of the spool grows, a guide arranged to move alongside the spool for directing the fabric thereupon, a double screw shaft for giving the guide a back and forth movement, and means for imparting the rotary motion of the spool to the screw shaft so that the guide will vary in its speed of traverse along the spool in accordance with the growth of the spool, said means consisting of a power transmitting means deriving its power from the spool, substantially as described.

1,470,678. KNITTING-MACHINE HEAD. HERBERT THEODORE BALLARD, Norristown, Pa. Original application filed Mar. 26, 1921, Serial No. 455,924. Divided and this application filed Feb. 11, 1922. Serial No. 535,912. 3 Claims. (Cl. 66—21.)



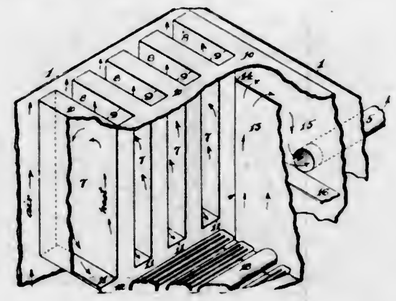
1. In combination, needles, a needle cylinder having an exteriorly screw-threaded hollow shank, a frame supporting the cylinder, and having an opening, the wall of which is screw threaded interiorly, and through which the shank extends with its screw threads engaging the screw threads of said opening to afford vertical adjustment of said cylinder by turning it, and a lock nut bearing upwardly against the under side of the frame encircling the shank and engaging the screw threads thereof, and bearing against the under side of the frame to lock the cylinder in position said encircling lock nut being hollow for the passage of the fabric therethrough, and a cam for operating the needles, substantially as described.

1,470,679. REAMER. SIDNEY M. BELLRINGER, Waynesboro, Pa., assignor to Wayne Tool Manufacturing Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Dec. 6, 1921. Serial No. 520,404. 5 Claims. (Cl. 90—12.5.)



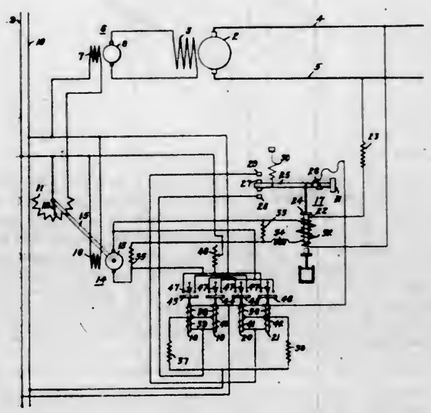
1. A tool holder having a shank and an expansible pilot, means engaging said pilot and adjustable to expand the same and means at the rear end of the shank whereby the adjusting means can be actuated, substantially as set forth.

1,470,680. FURNACE. GEORGE N. BLANCHARD, San Francisco, Calif., assignor to Colmar Burner Co., San Francisco, Calif., a Corporation of California. Filed Nov. 27, 1922. Serial No. 603,516. 2 Claims. (Cl. 126—116.)



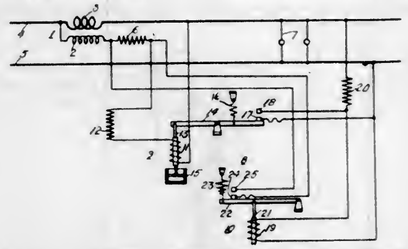
1. An apparatus for heating purposes comprising a suitable source of heat supply, a heat compartment within the base of which said supply is located, said compartment being composed of a series of heat accumulating units arranged in parallel relation and having openings communicating with the upper and lower areas of said compartment and through which heat currents rising in said compartment may enter and circulate and return to said heat compartment in the zone of said heat supply, an air compartment surrounding said heat compartment and through which air circulates and becomes heated from contact with the walls of said heat compartment.

1,470,681. REGULATOR SYSTEM. CLARENCE A. BODDIE, Pittsburgh, and ROSWELL E. CULLINGS, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 10, 1918. Serial No. 249,325. 15 Claims. (Cl. 171—229.)



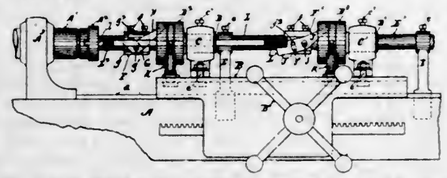
1. In a regulator for a supply circuit, a main control magnet operated in accordance with supply-circuit conditions, a resistor, means governed by said magnet for controlling said resistor, an auxiliary winding associated with said magnet, an inductance element in circuit with said winding, and means for varying the direction of current flow in the auxiliary winding to prevent hunting action.

1,470,682. VOLTAGE-REGULATOR SYSTEM. CLARENCE A. BODDIE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 9, 1918. Serial No. 261,924. 8 Claims. (Cl. 171—119.)



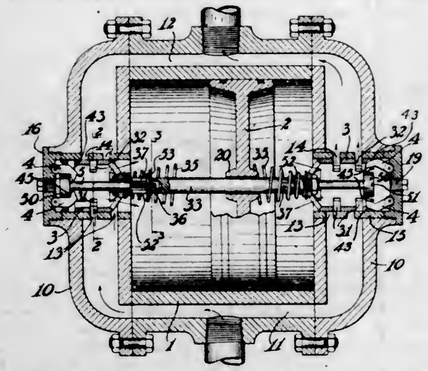
1. In a regulator system for a supply circuit, a transformer having one winding connected in series with the supply circuit and a second winding connected across the supply circuit, an impedance device included in the circuit of said second winding, electro-responsive means for controlling the effective value of said device, and means governed by the supply-circuit voltage for rendering said electroresponsive means ineffective to control the effective value of said device, to maintain a substantially constant supply-circuit voltage.

1,470,683. SCREW-CUTTING MACHINE. RUDOLPH A. BOEHM, Erie, Pa., assignor to Rickert-Shafer Company, Erie, Pa., a Corporation of Pennsylvania. Filed Apr. 7, 1922. Serial No. 550,366. 6 Claims. (Cl. 10—96.)



1. In a machine of the class described, a self opening die holder, an operating arm thereon, and means supported in the horizontal path of feed travel of said arm adapted to engage said operating arm to close said die holder and control the opening of the same.

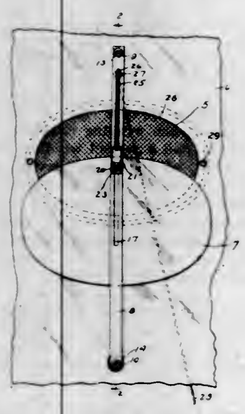
1,470,684. METER FOR FLUIDS. ENOS B. CADE, Portland, Oreg., assignor to American Liquid Meter Company, Portland, Oreg., a Corporation of Washington. Filed Nov. 15, 1921. Serial No. 515,187. 13 Claims. (Cl. 73—30.)



1. In a fluid meter including a cylinder, a piston reciprocable therein, and a control valve, the combina-

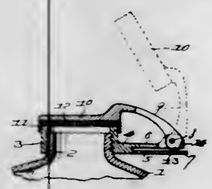
tion therewith of valve controlling means comprising dogs engageable with the valve to hold it in exhaust position, a pin independent of and engageable with said dogs to lock them in valve-holding position, said pin being engageable by the piston as it advances to release said dogs, and means operable upon release of said dogs to reverse the valve.

1,470,685. VENTILATOR. FRANK CALABRESE, Chicago, Ill. Filed Apr. 16, 1923. Serial No. 632,253. 4 Claims. (Cl. 98—31.)



1. In ventilating mechanism, the combination of a window pane having a ventilating opening, a shutter for said opening in the form of a glass plate, a guide bar bridging said opening on one side of said pane, said shutter being held against said pane by said guide bar, said pane having a guide opening therethrough above said ventilating opening, a cord secured at one end to the upper end of said shutter and extending through said guide opening to be manipulated on the other side of said pane to raise and lower said shutter, said guide bar having a guide slot, and an extension on said shutter engaging in said slot to confine said shutter to vertical movement when it is raised and lowered by means of said cord.

1,470,686. PASTE-TUBE CAP. WALTER W. CARPENTER, Charleston, S. C. Filed Mar. 4, 1922. Serial No. 541,100. 2 Claims. (Cl. 221—60.)



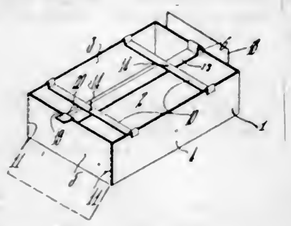
1. A closure member for receptacles embodying a receptacle having a neck, a collar engaged with said neck, said collar having an extension, a cap adapted to engage one edge of the collar, said cap having an extension adapted to be pivotally connected to the extension of the collar, said extension including means for engagement with the end of the extension of the cap for holding said cap in its raised position.

1,470,687. VALVE GRINDER. CHARLES E. CLARKE, Columbus, Ohio, assignor of one-third to Benton F. Stitt and one-third to Thomas F. Flood, both of Columbus, Ohio. Filed Apr. 8, 1922, Serial No. 550,737. Renewed July 16, 1923. 2 Claims. (Cl. 51—29.)



1. A valve grinding tool comprising, in combination, a spindle provided with removable bearings projecting transversely therefrom, an inner sleeve provided with diametrically opposed spiral slots therethrough engaging said bearings to rotate the spindle, a spring between the spindle and the inner sleeve, an outer sleeve covering the inner sleeve and holding said projecting bearings in place and an operating handle for the sleeves.

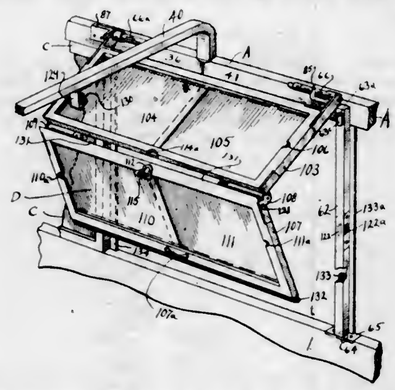
1,470,688. DISPLAY DEVICE. ROBERT J. CLEELAND, Springfield, Mass., assignor to Kibbe Brothers Company, Springfield, Mass., a Corporation of Massachusetts. Filed Aug. 26, 1920. Serial No. 406,141. 3 Claims. (Cl. 211—28.)



1. In a display device comprising a box provided with a hinged end portion, a tray formed of such size as to fit within the box and adapted to contain a plurality of articles, and supporting members extending across the box and engaging the opposite sides thereof for supporting said tray from the sides of the box and for holding the sides in proper upright position when said hinged end portion of the box has been removed to permit ready access to the portion of the box beneath said tray without disturbing the tray.

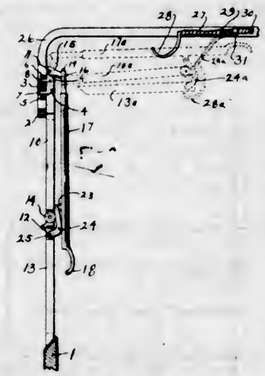
1,470,689. CONVERTIBLE INCLOSURE FOR VEHICLES. EDWARD LOVER, Buffalo, N. Y., assignor to Lover Top and Converter Co. Inc., Buffalo, N. Y., a Corporation of New York. Filed Apr. 23, 1919. Serial No. 292,158. 2 Claims. (Cl. 296—45.)

1. In a convertible inclosure, adapted for attachment to the body of a vehicle, the combination with a top frame having a beam, of a wall section, and a releasable hinging device pivotally attaching said section to said beam, said device comprising a bracket attached to said section, a casing pivotally connected with said bracket, and a locking member having a tongue attached thereto, a lever positioned on said bracket, said tongue being spaced from



said bracket and adapted to pass through a slot in said beam, to be turned across a lip of said slot to hold said beam between said tongue and said bracket.

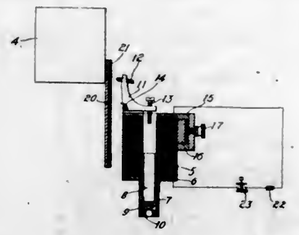
1,470,690. CONVERTIBLE INCLOSURE FOR VEHICLES. EDWARD LOVER, Buffalo, N. Y., assignor to Lover Top and Converter Co. Inc., Buffalo, N. Y., a Corporation of New York. Filed Nov. 12, 1919. Serial No. 337,543. 6 Claims. (Cl. 296—45.)



1. In a side enclosing device for vehicles, to be positioned between the body of the vehicle and its top frame side rail, a clamping bracket detachably fixed to said rail, a double sash frame pivoted to said bracket, said double sash frame comprising two parts hinged together and means for holding said double sash frame in angular position on said frame, said means comprising a first member pivoted to said bracket above the pivot point of said sash frame with said bracket, a second member in sliding engagement with said first member, means for drawing said members together, and a link pivotally attaching said second member with the lower member of the double sash frame.

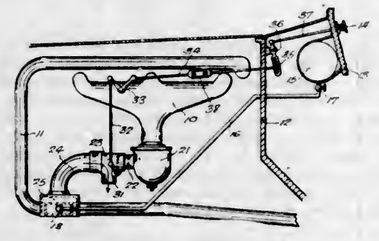
1,470,691. RECORDING DEVICE. CHARLES H. MARSHALL, Jr., Wilmerding, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 13, 1919. Serial No. 344,605. 3 Claims. (Cl. 234—1.5.)

2. A recording device comprising a solenoid coil, a casing therefor, a loosely fitting armature, a lever pivoted upon the casing, recording means mounted at one end of the lever, and means at the opposite end of the lever spaced from the armature when the latter is centralized



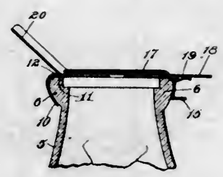
in the coil but engageable by the armature during the overtravel of the latter immediately following energization of the coil.

1,470,692. DEVICE FOR FEEDING MOIST AIR AND STEAM TO CARBURETORS. CLARK V. MCCARLEY, Toledo, Ohio. Filed May 9, 1921. Serial No. 467,865. 1 Claim. (Cl. 123—25.)



An engine exhaust pipe having a container adapted to hold absorbent material fixed to its side and opening upwardly at a point below the top of the pipe, a fluid supply pipe leading into the said container at one side, a stove in the form of a downwardly opening air container having end walls cut away to seat on the exhaust pipe and having side walls depending at the sides of said exhaust pipe, one of which side walls extends along said container in spaced relation thereto and has a vertical slot receiving said fluid supply pipe, hook bolts depending from the top of said stove and embracing the exhaust pipe to detachably hold the stove in position whereby the stove may be readily removed from the exhaust pipe and said container without wholly detaching the said bolts.

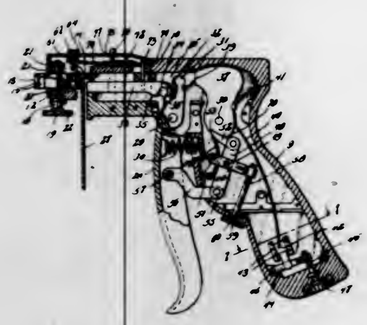
1,470,693. COMBINED COVER AND SPOUT FOR VESSELS. JAMES E. MEED, Palestine, W. Va. Filed Mar. 22, 1921, Serial No. 454,474. Renewed Sept. 27, 1922. Serial No. 590,997. 5 Claims. (Cl. 215—38.)



1. In a device of the character described, a body member adapted to embrace a portion of the neck of a bottle, a clamping member hinged to said body member and adapted to embrace the remainder of the neck of the bot-

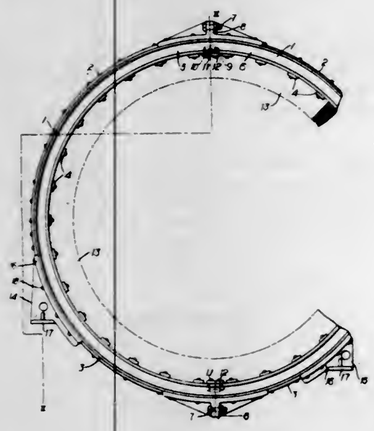
tie and clamp itself and said body member thereto, a pouring lip carried by said body member, and a cover pivotally mounted upon the clamping member for closing the mouth of the bottle.

1,470,694. SAW-SETTING TOOL. JAMES E. MEED, Palestine, W. Va. Filed Mar. 10, 1921. Serial No. 451,255. 14 Claims. (Cl. 76—69.)



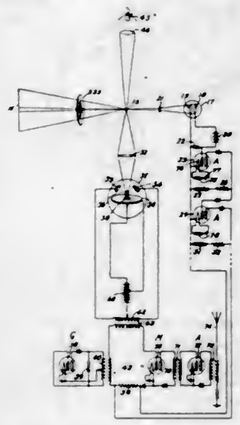
1. In a saw setting tool, a plunger for operating upon the teeth of the saw, a rotatable anvil disposed in the path of said plunger, said anvil having a plurality of surfaces adapted one at a time to be presented to said plunger, said surfaces being graduated so as to vary the angle of the saw tooth pressed against said surface by said plunger, means for rotating and simultaneously vertically adjusting said anvil, and means for holding said anvil fixed against rotation and vertical movement in its various positions of adjustment.

1,470,695. STRUCTURAL-STEEL FRAME FOR DYNAMO-ELECTRIC MACHINES. CHESTER B. MILLS, East McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 16, 1918. Serial No. 262,895. 2 Claims. (Cl. 171—252.)



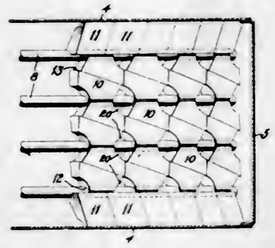
1. In a dynamo-electric machine, a frame comprising a plurality of annular members mounted in side-by-side relation and each comprising two semi-annular sections adapted to be detachably secured together, bars attached to the inner periphery of each of said annular members, and means joining the bars at adjacent ends of two sections.

1,470,696. TELEVISION. ALEXANDER MCLEAN NICOLSON, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 7, 1917. Serial No. 205,993. 73 Claims. (Cl. 178—6.)



1. The method of television comprising transmitting an image having light intensity variation in at least two directions by means of a single carrier wave.

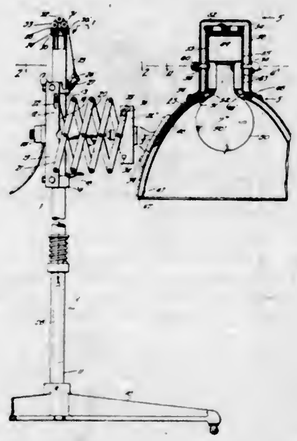
1,470,697. FIRE-BOX ARCH AND ARCH BRICKS THEREFOR. JOHN P. NEFF, East Orange, N. J., assignor to American Arch Company, a Corporation of Delaware. Filed Feb. 6, 1920. Serial No. 356,653. 9 Claims. (Cl. 110—87.)



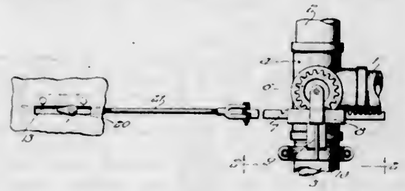
1. A tube supported arch composed of a plurality of counterpart, reversible bricks each of which is provided on one edge with a socket of sufficient depth to embrace the greater part of one half the circumferences of a tube, the opposite edge being cut obliquely with respect to the socketed edge, as and for the purposes set forth.

1,470,698. THERAPEUTIC LAMP. HARRY W. NELSON, Chicago, Ill. Filed Apr. 24, 1922. Serial No. 556,351. 6 Claims. (Cl. 240—69.)

1. A support for a therapeutic lamp, comprising a tubular standard, a supporting bracket held by and vertically reciprocable on said standard, a cam lever pivoted on said bracket adjacent said tube and having a cam surface for contacting the surface of said tube to prevent downward movement of said bracket, means urging said cam into engagement with said tube, a flexible cord secured at one end to said cam arm, passing over a support on said standard and secured at its opposite end to a counterweight, said cord holding said cam out of engagement with said tube.



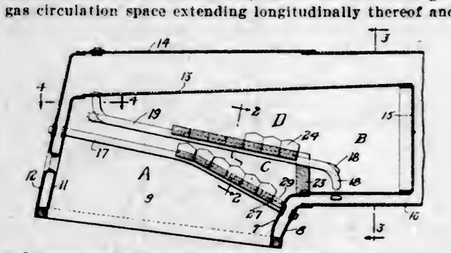
1,470,699. CONTROLLER FOR STREET SPRINKLERS OR FLUSHERS. HALFTEN EUGENE OLSEN, Chicago, Ill., assignor, by mesne assignments, to F. C. Austin Machinery Company, a Corporation of Illinois. Filed Aug. 12, 1918. Serial No. 249,439. 9 Claims. (Cl. 137—139.)



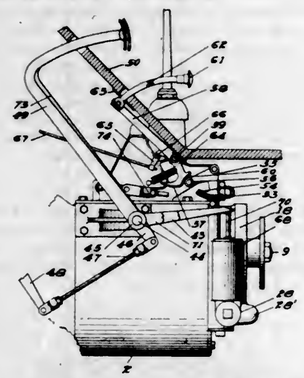
1. In a street sprinkler or flusher, the combination of water pipes adapted to connect with nozzles at opposite sides of the sprinkler, a supply pipe, a coupling connecting said pipes, a rotary valve mechanism for which said coupling forms a casing, a controller comprising a pinion rigid with said valve mechanism, a rack engaging said pinion, a single hand lever for operation of said rack, a bracket connecting said controller parts as a unit, and devices for holding said lever in different positions, said valve mechanism having a movable member provided with a passage through which the water may be directed to either or both of said nozzles by manipulation of said hand lever.

1,470,700. LOCOMOTIVE FIRE BOX. LE GRANDE PARISH, Mountainview, N. J., assignor to American Arch Company, New York, N. Y., a Corporation of Delaware. Filed July 16, 1919. Serial No. 311,342. 7 Claims. (Cl. 122—71.)

1. In a barrel type locomotive fire box, the combination of two sets of upwardly and rearwardly extending arch tubes one above the other, said sets converging rearwardly and having their forward ends substantially spaced apart, an arch carried on the upper set and an arch carried on the lower set, the lower ach having a gas circulation space extending longitudinally thereof and one extending transversely at the forward portion thereof, and said arches forming a combustion chamber in the forward portion of the fire box.

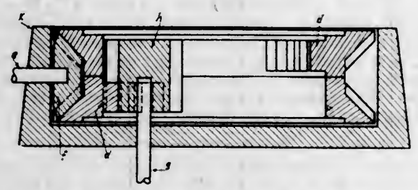


1,470,701. AUTOMATIC BRAKE CONTROL FOR POWER-PROPELLED VEHICLES. EDWIN GUSTAVE STAUDE, Minneapolis, Minn. Filed Nov. 10, 1915, Serial No. 60,751. Renewed Mar. 22, 1920. Serial No. 367,827. 33 Claims. (Cl. 192—3.)



1. An automatic control for power propelled vehicles comprising a pump, a fluid circulating system therefor, a controlling valve operable to open the suction side of the pump to supply of fluid and close the exhaust side to render the pump active and create a pressure on the exhaust side of the pump, means actuated by the pressure on the exhaust side of said pump, and a rod connected with said means and with the controlling mechanism of the vehicle.

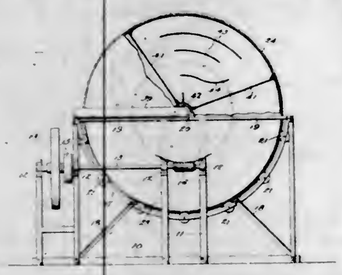
1,470,702. WASHING MACHINE. CHARLES T. TUNNICLIFFE, Ann Arbor, Mich. Filed Jan. 17, 1921, Serial No. 437,930. Renewed Aug. 31, 1923. 2 Claims. (Cl. 74—50.)



1. In a washing machine, a means of causing the rotor part to revolve alternately in opposite directions, consisting of two gear wheels having segmental gears on their inner periphery, a cylindrical box of metal surrounding said gear wheels and of such size as to hold said wheels in a concentric position and in juxtaposition to each other, substantially as described, and a shaft projecting through said box perpendicularly to the plane of

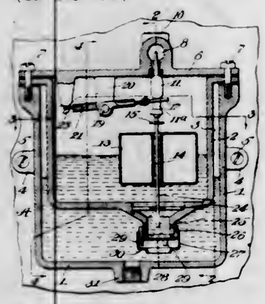
said gear wheels and carrying on its end within said box a pinion arranged to be in mesh with the segmental gears alternately, all substantially as described.

1,470,703. COFFEE-DRYING MACHINE. MIGUEL ANGEL VILLAVICENCIO, Caracas, Venezuela. Filed June 2, 1922. Serial No. 565,468. 5 Claims. (Cl. 34—5.)



1. A machine of the character described comprising a supporting frame including a cradle provided with rollers, a drum rotatably supported within said cradle and provided with inlet and outlet openings, means for rotating the drum, and means for forcing a blast of hot air into the drum at the center thereof, consisting of a furnace having a stack, a blower, a serpentine flue within the furnace stack connected with the blower and a distributor pipe leading from the flue into the drum.

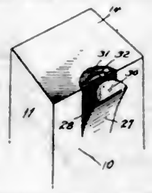
1,470,704. VACUUM FEED DEVICE. LEONARD H. WHEELER, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Apr. 15, 1922. Serial No. 553,195. 8 Claims. (Cl. 158—36.)



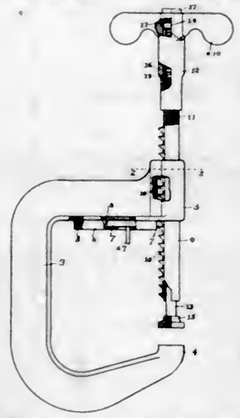
1. In a vacuum feed device comprising a vacuum chamber into which liquid is drawn by suction and a reserve chamber into which it is periodically released for gravity flow to the point of use, said outer chamber being formed with a laterally projecting flange adapted to protrude through an opening in a supporting partition wall, dash board, or the like, and a transparent closure secured to said flange forming a sight opening through which the contents of the reserve chamber may be observed.

1,470,705. CONTAINER. PHILIP ZALKIND, New York, N. Y. Filed Apr. 23, 1918. Serial No. 230,202. 3 Claims. (Cl. 229—17.)

1. In a receptacle, side walls, a multi-ply end wall, a panel in one of the side walls, and an extension of the panel lying in the outermost ply of the multi-ply end wall when the receptacle is set up, the said extension and panel being normally closed but separable along predetermined lines from the parts of the container in which they are placed to separate the said extension from the outermost ply of the multi-ply end wall and the panel from the side wall to form an opening therein, the said extension being insertable between inner plies of the multi-ply end wall to then maintain the panel in a closed position.

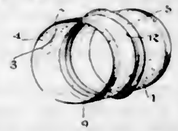


1,470,706. HAND CLAMP. WILLIAM A. DAY, Bellingham, Wash., assignor of one-half to Harry V. Saltzgaber, Bellingham, Wash. Filed Feb. 8, 1923. Serial No. 617,667. 2 Claims. (Cl. 144—305.)



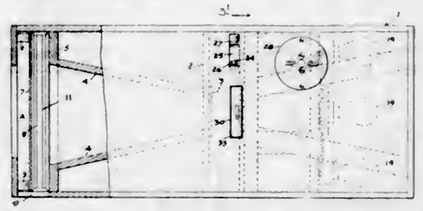
1. In a hand clamp in combination, a clamp body having a lower jaw adapted to bear on the lower side of the work and an upper jaw having a hole therethrough the axis of which intersects said lower jaw adapted to mount a rack rod for reciprocation, a hollow rack rod mounted for reciprocation in said jaw hole having a toothed rack and a threaded upper body, a pawl mounted on said clamp body adapted to engage with said rack whereby said rack rod is retained from reciprocating in said jaw hole, a press rod mounted for reciprocation in said rack rod protruding from both ends of said rack rod and having a head on its upper end, a helical spring mounted on said press rod between its head and the upper end of said rack rod whereby said press rod is caused to bear on a wing nut, a wing nut engaged on the said threaded body of said rack rod adapted to bear on said press rod head whereby when said wing nut is screwed on said rack rod said press rod is forced toward said lower jaw against the pressure of said spring.

1,470,707. SURGICAL APPLIANCE. SAMUEL ALLEN BATES, St. Louis, Mo. Filed Oct. 12, 1922. Serial No. 594,128. 6 Claims. (Cl. 128—334.)



4. A surgical appliance for use in connection with surgical operations of the intestines comprising a cylindrical member made of flexible material, a rib formed on the outer wall of the cylindrical member and intermediate its ends, a plurality of perforations formed in the wall of the cylinder adjacent the rib for receiving a portion of the cat gut suture employed in connecting the severed ends of an intestine.

1,470,708. CAMERA. GEORGE W. BLUM, San Francisco, Calif. Filed Mar. 6, 1922. Serial No. 541,347. 5 Claims. (Cl. 95—31.)



1. A camera comprising an elongated casing open at both ends, a partition extending across a mediate part of the casing, a lens within the partition, a glass plate extending across the casing adjacent to one end thereof and rearwardly of the lens, said casing having a space therein adjacent to said plate into which space a photographic sensitized element is adapted to be mounted, a shutter disposed in front of the lens, illuminating means within the casing, a color filter slide adapted to be inserted into the casing, said casing having an opening therein thru which the slide is insertable, said slide having a colored plate thereon adapted to be moved into alinement with the lens and shutter.

1,470,709. CARDCASE. CARL B. COOK, Haddonfield, N. J., assignor to Charles K. Cook Company, Incorporated, Camden, N. J., a Corporation of New Jersey. Filed June 11, 1921. Serial No. 476,656. 3 Claims. (Cl. 206—40.)



1. In a card or like case, the combination with a hollow casing, of a flexible element attached to the casing and having one end free and adapted for manipulation from the exterior of the casing, said element underlying articles in the case whereby when a pull is exerted upon the said free end the said articles are caused to project from the casing, and means associated with said element and adapted to engage an article in the casing for causing said engaged article to project further from the casing than the others.

1,470,710. SANITARY TOOTHBRUSH. LAWRENCE C. DAVIS, Cedar Falls, Iowa, assignor to Dentabrush Company, a Corporation of Illinois. Filed Oct. 29, 1919. Serial No. 334,627. 22 Claims. (Cl. 15—167.)

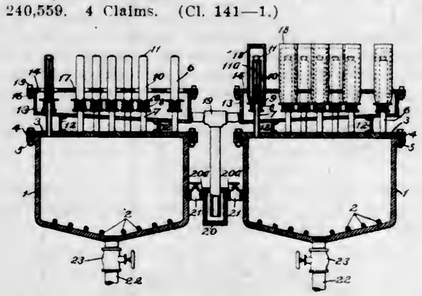


1. A tooth-brush body including a mass of juxtaposed filaments, an enveloping reticulated mass of absorptive cellulose, and a binder adhesively securing said filaments in position.

1,470,711. PROCESS FOR MANUFACTURING VISCOSE WITH A VIEW TO THE MANUFACTURE OF ARTIFICIAL SILK AND LIKE PRODUCTS NOT LIABLE TO LOSE THEIR RESISTANCE BY CONTACT WITH WATER. HERMAN DELAHAYE, Destelbergen, near Ghent, Belgium. Filed Sept. 11, 1922. Serial No. 587,593. 2 Claims. (Cl. 260—100.)

2. The process of manufacturing viscose suitable for the manufacture of artificial silk of which the resistance is practically unaffected by contact with water, consisting first in soaking cellulose in a 20°–35° Baumé solution of caustic alkali at about 0° C. for about one hour, then in expelling under pressure the excess of caustic alkali and reducing the alkali-cellulose into pulp while the mass is maintained at a low temperature, then in allowing the mass to stand for a period of one to several days at about 0° C., then in hydrating slightly by allowing the alkali cellulose to remain for a period of one to several days in a chamber where the temperature does not exceed 15° C., then in treating same with carbon disulphide, at a temperature not exceeding 20° C., and finally in dissolving the alkaline xanthogenates of cellulose thus obtained in a solution of caustic alkali by malaxing and allowing the resulting viscose to stand during two to three weeks at a temperature not exceeding 10° C.

1,470,712. CLEANING APPARATUS. PAUL E. DEMMLER, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 17, 1918. Serial No. 240,559. 4 Claims. (Cl. 141—1.)

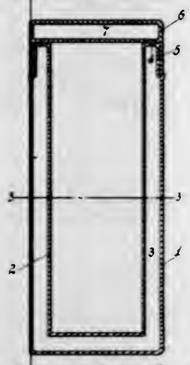


2. A cleaning apparatus for hollow articles comprising a plurality of vaporizers, a plurality of nozzles leading therefrom, means for returning condensed vapor to any selected vaporizer and means for independently draining the vaporizers.

1,470,713. THERMOS CONTAINER. JENNIE E. DIVEN, Oakland, Calif. Filed Feb. 8, 1922. Serial No. 535,058. 1 Claim. (Cl. 220—10.)

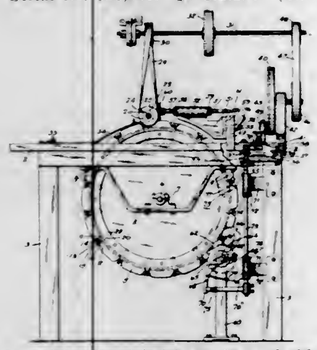
A thermos container including an outer cylindrical vessel, an inner vessel spaced from said outer vessel and

extending to the same height as the outer vessel, said outer vessel having a reduced neck at its upper end, a horizontal plate connecting the outer and inner vessels



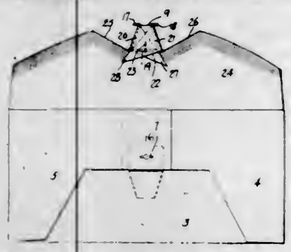
and providing a chamber between the vessels and a cap engaging the neck of the outer vessel, said cap being formed with a chamber in the top thereof, said chamber extending over the neck and horizontal plate.

1,470,714. PELT OR SKIN DEHAIRING MACHINE. PHILIP C. DONNER, Summit, N. J. Filed Dec. 31, 1921. Serial No. 526,341. 15 Claims. (Cl. 149—26.)



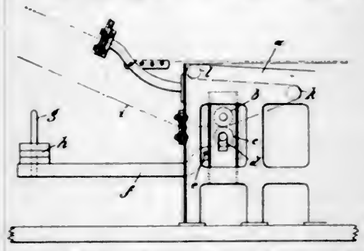
1. In a machine for dehairing pelts and skins, a pelt or skin-support, a rotary cutting element, means for reciprocating said cutting element transversely over said support, a hair-laying element in the rear of said cutting element and above said support, and means for moving said support to carry a pelt or skin beneath said hair-laying element into operative relation to said cutting element.

1,470,715. SAFETY ENVELOPE. GEORGE DOUTNEY, Brooklyn, N. Y. Filed Dec. 20, 1921. Serial No. 523,734. 5 Claims. (Cl. 229—78.)



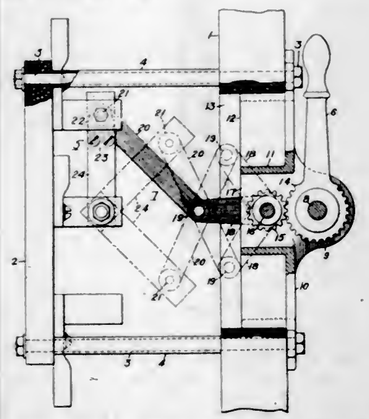
1. A safety envelope formed from a blank having a body, a back of the same size as the body provided with a slit therein, end flaps adapted to be folded over said back, a closing flap formed with a tongue adapted to be extended through said slit, a pocket arranged interiorly of said back adjacent the slit so that when the closing flap is closed and the tongue projected through said slit it will be projected into said pocket, a hook carried by said tongue adapted to snap over the lower edge of said pocket when the tongue has been inserted fully, a metal staple for securing said hook in place, and a metal staple for connecting said end flaps, said back and said pocket together adjacent said slit.

1,470,716. WARP-TENSIONING DEVICE FOR LOOMS. WERNER EBELL, Neuruppin, Germany. Filed Aug. 30, 1922. Serial No. 585,231. 1 Claim. (Cl. 139—104.)



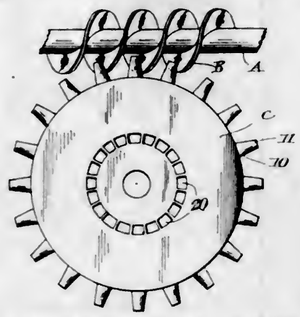
An improved warp tensioning device for looms designed for the weaving of coarse fabrics, including, in combination, a pair of rotatably supported cylinders arranged one above the other, between which are passed the warp threads, the upper cylinder being non-adjustable and the lower one being mounted so as to freely move away from the non-adjustable cylinder when unsupported, a lever acting upon the lower, adjustable, cylinder to hold it toward the upper cylinder with yielding pressure, and weights carried at the outer end of the lever so that variable pressure may be exerted upon the adjustable cylinder, the lever being arranged so that when its outer end is lifted the adjustable cylinder is freed and allowed to move away from the non-adjustable cylinder.

1,470,717. SAFETY KNIFE SWITCH. FRANK FIX, Irwin, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 25, 1919. Serial No. 326,219. 5 Claims. (Cl. 200—162.)



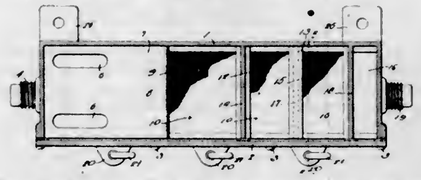
1. A double-throw, remote-control switch comprising, in combination, a handle lever pivotally supported upon a panel board for rotation in a plane at right angles thereto and provided with a gear portion, a movable contact member, and a pair of stationary contact members located at a point removed from the panel and on the side opposite to that occupied by the handle lever, a bell-crank lever provided with a gear member adapted to mesh with the first-named gear member and of relatively small ratio, and a connection between the bell-crank lever and the movable contact member whereby said movable contact member is actuated by movement of the handle lever.

1,470,718. GEAR. ALBERT EDWIN FORSYTH, Greenbush, Ontario, Canada. Filed Feb. 7, 1921, Serial No. 443,048. Renewed Apr. 12, 1923. 1 Claim. (Cl. 74—36.)



A gear of the character described, comprising a worm, a gear having a plurality of radial recesses therein, connecting with transverse passageways, teeth in the recesses, each tooth being formed of two frustrum conical portions, the inner portion of which is relatively longer than the outer portion and said portions being tapered continuously from their outer ends to their point of juncture, roller bearings engaging the side of the teeth, and ball bearings supporting the ends of the teeth.

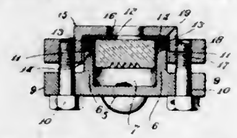
1,470,719. LIQUID-FUEL PURIFIER. JOHN H. GANNON, Tucson, Ariz. Filed Mar. 15, 1921. Serial No. 452,479. 8 Claims. (Cl. 210—165.)



2. A liquid fuel purifier comprising a casing and partitions therein dividing the interior of the casing into a plurality of chambers, certain of said chambers being located in the lower part of the casing and constituting a series of water and sediment chambers and the remaining chambers being located in the upper part of the chamber in overlying relation to said water and sediment chambers and constituting flotation chambers, each of said water and sediment chambers being in communication with the adjacent water and sediment chamber through an overlying flotation chamber, an inlet communicating with the water and sediment chamber at one end of the series, an outlet communicating with the water and sediment chamber at the opposite end of the series, and faucets in communication with the respective water and sediment chambers.

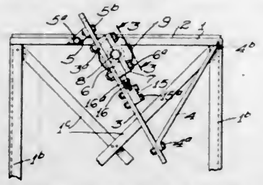
1,470,720. WATER GAUGE. GEORGE S. GARDEN, Oak Park, Ill., assignor to Sargent Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 9, 1920. Serial No. 402,362. 1 Claim. (Cl. 73—54.)

A water gauge of the character described, comprising a body member formed to provide an open sided water and steam chamber, said member being provided with a continuous extended margin or flange having inwardly beveled edges to constitute a gland portion, a sight glass disposed partially in said member within said continuous flange, a composite packing element provided with an asbestos portion on the surface disposed toward said gland and said glass, said packing element being disposed about the edges of the sight glass to maintain the position of the glass relative to said chamber, a cover member provided with a sight opening and adapted to overlap



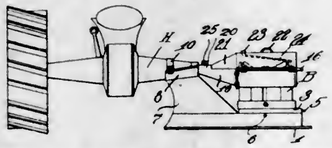
the outer face of the sight glass, said cover member being provided with off-set edges adapted to telescope with the gland portion of the body member, the body member and cover member being provided with laterally disposed correlated portions, and fastening means engaging with said laterally disposed portions whereby the body member and cover member are adjustably secured together, the packing element thereby compressed between said gland portion and the cover member and forced toward the edges of the sight glass.

1,470,721. SLOTTING MACHINE. ARTHUR O. GARRETT, San Diego, and CHRISTOPHER E. FUNNELL and WILLIAM L. HOFFMAN, Los Angeles, Calif. Filed Dec. 17, 1920. Serial No. 431,432. 4 Claims. (Cl. 90—16.)



1. A slotting machine, including a table member provided with a slot in the middle thereof, supporting members positioned on an angle at opposite ends of said table, journals adjustably mounted on said supports, a shaft mounted on said journals, a gang saw secured to said shaft positioned so that its edge extends through the slot in said table.

1,470,722. BEARING BURNING-IN ATTACHMENT. GEORGE E. GAREY, Downs, Kans. Filed May 2, 1922. Serial No. 558,037. 3 Claims. (Cl. 29—1.)



1. The combination with a base, and a seat supported thereby for engaging and holding the housing of the drive axle of a motor vehicle, of a slide adjustably mounted on the base for supporting an engine block, a member for attachment to a supported engine block, said member having a bearing for the axle of the motor vehicle, and means for coupling said axle to the engine shaft.

1,470,723. HEAT INSULATING TAPE. WILLIAM R. GILLIES, Chicago, Ill., assignor to Union Asbestos & Rubber Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 22, 1922. Serial No. 589,787. 1 Claim. (Cl. 154—44.)

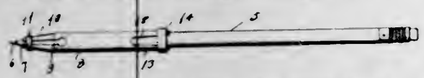
An insulating tape adapted to be tightly spiralled about a pipe comprising a flexible sheath consisting of a

flattened tube formed of a textile fabric of asbestos and a multiplicity of independent asbestos fibre ropes disposed



side by side and longitudinaly of said sheath and substantially filling the latter.

1,470,724. PENCIL-POINT PROTECTOR. LOUIS GINSBERG, Minneapolis, Minn. Filed Nov. 1, 1918. Serial No. 260,734. 1 Claim. (Cl. 120—87.)



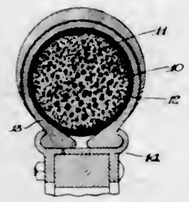
A sleeve to slide on a pencil, said sleeve being slitted longitudinally from one end and having an elastic band of less diameter than said sleeve disposed on and adapted to constrict the portion of the sleeve at said end into protecting relation to the point of the pencil, said end portion being flexible to conform to the exterior shape of the pencil at said portion under urgency of the band, and said band serving as a grip when the sleeve is in exposing relation to the point.

1,470,725. SELECTIVELY-OPERATED CIRCUIT-CONTROLLING DEVICE. FREDERICK M. GODDARD, Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 12, 1919. Serial No. 310,507. 9 Claims. (Cl. 177—342.)



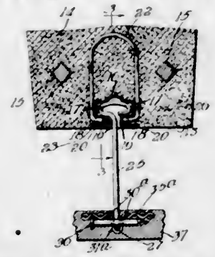
1. In a selectively operated circuit controlling device, a step-by-step element, an electromagnet, an armature responsive to a definite sequence of current impulses through the winding of the electromagnet, stepping means controlled by the armature for advancing the element step-by-step into a predetermined position, a plurality of stationary contacts, a movable contact selectively engaging the stationary contacts upon the advancement of the element beyond the predetermined position in response to additional impulses through the winding of the electromagnet, means controlled by and rendered effective by the reenergization of, the electromagnet to return the element to its predetermined position, and means for returning the movable contact to its normal position upon the return of the element to its predetermined position.

1,470,726. VEHICLE TIRE. EMIL GRATT, Watertown, Wis., assignor to Oscar C. Wertheimer, Watertown, Wis. Filed Apr. 8, 1920. Serial No. 372,178. 1 Claim. (Cl. 152—5.)



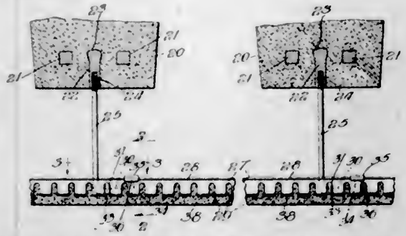
In a vehicle tire an outer casing, a tire filler fitting therein and comprising a sponge rubber core surrounded by a rubber coated fabric covering, the rubber next to the fabric coating on the inside and outside thereof being solid and giving the filler a smooth surface to avoid friction with the outside casing.

1,470,727. CEILING AND FLOOR CONSTRUCTION. ERIC E. HALL, Chicago, Ill. Filed Mar. 18, 1918. Serial No. 223,003. 4 Claims. (Cl. 72—101.)



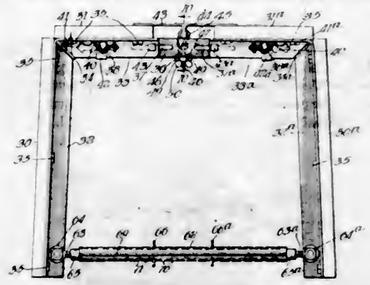
1. In a ceiling and floor structure, the combination with a solid concrete floor, of a series of lines of shallow metallic troughs having wide body portions and narrow open sides anchored and embodied therein as the floor is poured with their narrow open sides at the bottom of the concrete, depending rods provided with heads having their heads secured from vertical movement in the wider bodies of the troughs, skeletonized metallic bars secured to the lower ends of the rods, and sheets of plastic material supported between said bars to form a ceiling.

1,470,728. SUSPENDED CEILING. ERIC E. HALL, Chicago, Ill. Filed May 28, 1919. Serial No. 300,343. 6 Claims. (Cl. 72—101.)



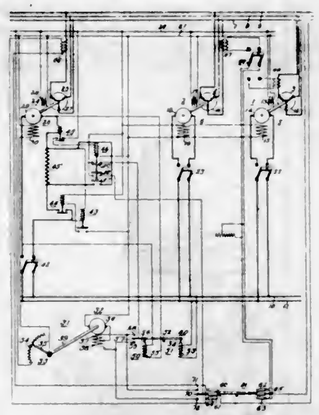
6. As a new and useful article of manufacture, a clip composed of sheet metal curved in an open trough-like form with tongues cut in the ends from the bottom of the trough to bend down, for the purpose described.

1,470,729. FORM FOR CONCRETE WORK. ERIC E. HALL, Chicago, Ill. Filed May 28, 1919, Serial No. 300,344. Renewed Apr. 2, 1923. 24 Claims. (Cl. 25—131.5.)



1. A horizontally extending form for concrete work comprising a plurality of members each consisting of a plurality of one piece angle bars extending across the member on the inside thereof with the vertical webs of the bars projecting inwardly and cut away at the angles of the members, and a plurality of boards having their faces secured to the outside of the bars and extending lengthwise and transversely of the bars to form the mold surfaces, and means to secure the members into a rigid form, said means being located entirely within the forms so as to leave no projections outside to which the concrete might adhere.

1,470,730. ELECTRIC REGULATOR SYSTEM. FREDERIC C. HANKER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 25, 1920. Serial No. 391,565. 12 Claims. (Cl. 171—312.)

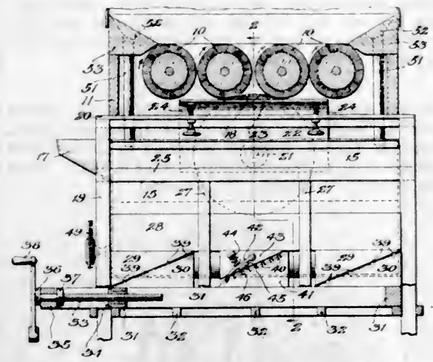


3. In a regulator system, the combination with a feeder circuit and a generator adapted to be connected to said circuit, of means for equalizing the voltage of the generator and the feeder circuit, means for connecting the generator to the feeder circuit upon equalization of such voltages, and means for controlling the percentage of load carried by said generator.

1,470,731. PROCESS FOR MANUFACTURING A MORTAR-FORMING MATERIAL FROM ANHYDRITE. FRITZ HARTNER, Homburg, Germany. Filed Nov. 12, 1920. Serial No. 423,762. 2 Claims. (Cl. 222—4.)

2. A self-setting anhydrite mortar material the major portion of the particles of which will pass through a screen of 10,000 mesh per sq. cm.

1,470,732. APPARATUS FOR TREATING FRUIT AND THE LIKE. ALBERT HAWORTH, Winterhaven, Fla., assignor to Brogdex Company, Winterhaven, Fla., a Corporation of Florida. Filed May 11, 1922. Serial No. 560,141. 14 Claims. (Cl. 91—40.)



11. Fruit treating apparatus comprising the combination, with brush roll mechanism and means for feeding fruit thereto, of an applying-roll mounted below said brush roll mechanism and adapted to engage a brush roll of said mechanism, a container for coating material mounted below said applying-roll and brush roll mechanism, said applying-roll being arranged to depend into said container to transfer coating material therefrom to said brush roll mechanism and means adapted to adjustably vary the vertical position of any one of said parts consisting of said brush roll mechanism, applying-roll and container relative to any other of said parts and to releasably maintain said adjusted part in said adjusted position.

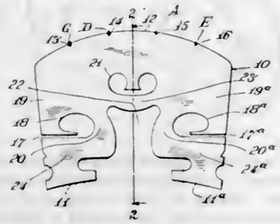
14. Fruit treating apparatus comprising the combination with parallel sloping revoluble brush rolls arranged in pairs cooperating to provide fruit runways, of a supply reservoir arranged below said rolls, and a revoluble roll adjustably journaled within said reservoir for adjustable engagement with at least one of said brush rolls.

1,470,733. SOUND DETECTION. HARVEY C. HAYES, New London, Conn., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed June 25, 1919. Serial No. 306,688½. 20 Claims. (Cl. 177—386.)



5. A submarine sound detection device comprising an elongated flexible body arranged to be towed through the water and containing a plurality of microphones.

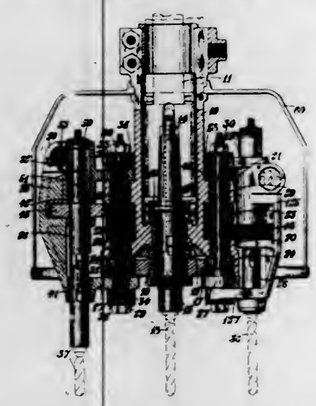
1,470,734. VIOLIN BRIDGE. BENJAMIN HELKE, Glencoe, Ill. Filed Nov. 2, 1921. Serial No. 512,339. 5 Claims. (Cl. 84—309.)



4. A bridge for a stringed musical instrument, comprising a body having openings on opposite sides of its

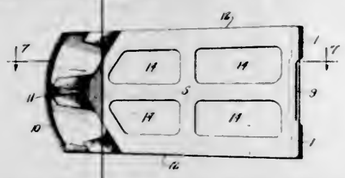
vertical center with slits extending from said openings to the vertical edges of the bridge so as to provide resilient arms on which the outside strings of the instrument are supported, and having a centrally disposed recess extending upwardly from the lower edge of the bridge to a point between said openings; the portions of the body intervening between said openings and said recess providing slender columns adapted to yield in response to the vibrations of the several strings of the instrument.

1,470,735. MULTIPLE-SPINDLE DRILL HEAD. GEORGE HEY, St. Margarets-on-Thames, and JAMES ARMSTRONG WILDING, London, England, assignors to Harper Bean Limited, London, England. Filed June 9, 1922. Serial No. 567,092. 7 Claims. (Cl. 77—24.)



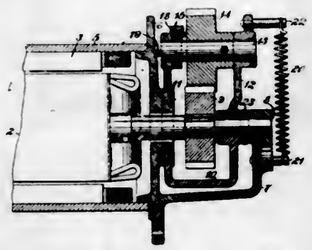
1. A multiple spindle drill head of the type described, comprising a drill head, a central driving spindle rotatable in said head, a series of bearing bracket members around said central spindle, an intermediate spindle associated with each of said bracket members and forming the hinge pin about which said bearing brackets may be adjusted with relation to said central spindle, a gear wheel towards the lower end of said central spindle, gear wheels on said intermediate spindles gearing towards their lower ends with the gear wheel on the central spindle, drill socket members rotatable in said bearing brackets, and gear wheels on said socket members gearing with the gear wheels on the intermediate spindle associated therewith towards the upper end thereof, for the purposes set forth.

1,470,736. FIRE-BOX ARCH AND ARCH BRICK. RALEIGH J. HIMMELRIGHT, Englewood, N. Y., assignor to American Arch Company, a Corporation of Delaware. Filed May 12, 1921. Serial No. 468,846. 5 Claims. (Cl. 110—87.)



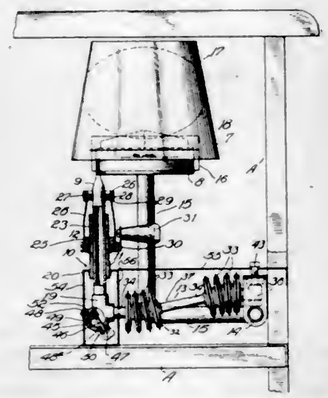
1. A brick for tube-equipped locomotive fire box arches which as adapted to be supported between a tube and a side of the box, having one end formed with a tube engaging face and the other end having a side sheet engaging face, arranged to provide a single point of support whereby to permit angular variations between the brick and the side without changing the angular relation of the brick to the tube at the tube engaging end in the direction longitudinally of the tube, said brick being narrower at the end which engages the side of the fire box than at the end which engages the tube.

1,470,737. STARTING MECHANISM FOR AUTOMOBILES. CHARLES H. HODGKINS, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 25, 1920. Serial No. 391,632. 9 Claims. (Cl. 74—7.)



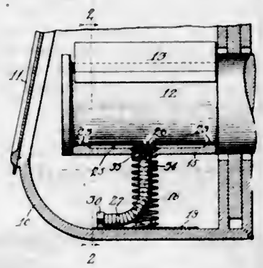
1. In a starting mechanism for an automobile, the combination with a motor, an engine gear wheel, and a pinion connected to, and operated by, said motor, of means carried by said pinion for rigidly locking said pinion to the motor shaft to move the pinion into mesh with the engine gear wheel, and means for rendering said locking means inoperative upon meshing of the pinion with the engine gear wheel, said locking means being responsive to centrifugal force whereby it remains inoperative during the rotation of said pinion.

1,470,738. OIL STOVE. RUDOLPH HOFFMAN, Kankakee, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a Corporation of New York. Filed Apr. 19, 1920. Serial No. 374,827. 9 Claims. (Cl. 158—42.)



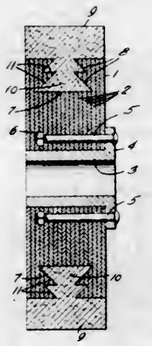
1. In an oil stove, the combination with a source of oil supply and a burner mounted for vertical relative movement, of means providing a connection between the oil supply and the burner adapted to permit of such relative vertical movement, comprising a hollow conductor extending in a generally horizontal direction and having interposed at spaced points therein relatively movable sections adapted to render the conductor capable of flexing reversely near its opposite ends so as to permit such relative vertical movement between the burner and the source of oil supply.

1,470,739. JOURNAL LUBRICATOR. THOMAS J. HOLMES, Chicago, Ill. Filed Aug. 30, 1921. Serial No. 496,895. 2 Claims. (Cl. 64—24.)



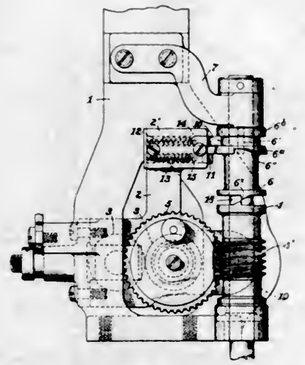
1. The combination of a car journal, a bearing on the upper side of the journal, a journal box substantially surrounding the journal and adapted to contain a material quantity of lubricant below the journal, a friction piece having a continuous friction surface substantially conforming to the bearing surface of the journal to be lubricated and extending substantially from end to end of the friction piece along the side edges thereof and from side to side thereof along end edges thereof, said friction piece having a depressed portion surrounded by said annular friction surface, the depressed portion forming a pocket adapted to contain a quantity of lubricant, there being an opening in the depressed portion of said friction piece, the journal box forming a receptacle for lubricant below said friction piece, flexible pipe means extending from the opening in said friction piece into the lower portion of the journal box, and means for yieldingly holding the friction piece in engagement with the journal.

1,470,740. POLISHING WHEEL. TITUS S. HOSE, Little Falls, N. Y. Filed Jan. 23, 1922. Serial No. 531,057. 6 Claims. (Cl. 51—193.)



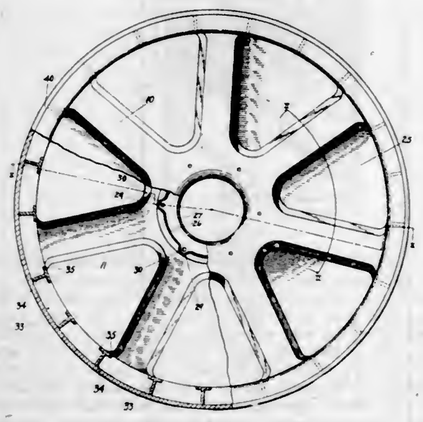
1. In a polishing wheel, a center disk built up of a plurality of wooden laminations, the grain of the wood of one lamination being at an angle to the grain of the wood of its adjacent lamination, said disk having a peripheral recess therein and having an annular groove in each of the side walls of said recess, and a polishing pad mounted on the periphery of said disk comprising a plurality of segments of polishing material arranged peripherally side by side on the disk, each segment having a tongue fitting within said recess and having oppositely disposed flanges engaging in said side wall grooves.

1,470,741. TAKE-UP MECHANISM FOR KNITTING MACHINES. KENNETH HOWIE, Norristown, Pa., assignor to Wildman Mfg. Co., Norristown, Pa., a Corporation of Pennsylvania. Filed May 20, 1921. Serial No. 471,091. 13 Claims. (Cl. 66—9.)



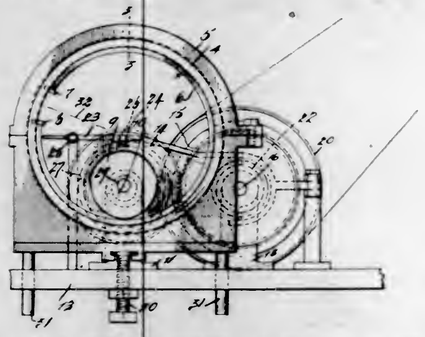
1. Take-up mechanism for knitting machines comprising fabric take-up means, driving means therefor including clutch members, means for imparting rotation to one of said members, power operated means for giving a relative movement to the clutch members from engaged to disengaged position for releasing them, said power operated means being rendered effective by the decrease in the rate of travel of the fabric for releasing the clutch, substantially as described.

1,470,742. METAL WHEEL. EMIL IBACH, Philadelphia, Pa., assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 12, 1919. Serial No. 296,401. 14 Claims. (Cl. 301—64.)



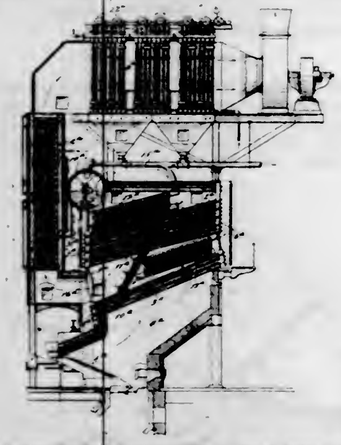
5. In a metal wheel, a pair of sheet metal discs provided with registering radial ribs and co-operating mating portions and having central openings formed therein, the said discs being spot welded together, flanges formed upon the peripheral edges of the discs in such a manner as to provide channels, transverse braces positioned within the channels, and a rim positioned upon the peripheral flanges and the outer portions of the braces.

1,470,743. MACHINE FOR ROLLING PISTON RINGS. JOSEPH A. INGRAM, Atlantic City, N. J. Filed Nov. 17, 1919, Serial No. 338,520. Renewed Jan. 2, 1923. 8 Claims. (Cl. 29—1.)



1. In a device to increase the resiliency of piston rings, means to retain a split ring parted, beyond a normal state, at the split portion thereof, and means to expand the inner surface of the ring throughout only that portion of the inner surface of the ring which is opposite the parted split portion.

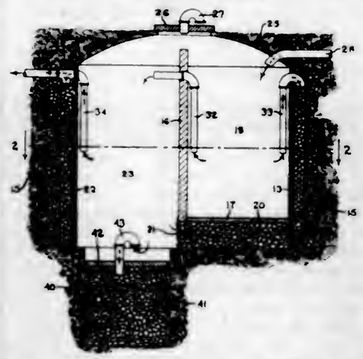
1,470,744. STEAM BOILER. DAVID S. JACOBUS, Jersey City, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed July 2, 1918. Serial No. 242,990. 19 Claims. (Cl. 122—297.)



7. A boiler having horizontally inclined tubes arranged in two separated banks, end water compartments to which the tubes are connected, said compartments being separated from each other at one end of the tubes, tubes connecting the said separated compartments, a gas outlet opening from the space between the separated compartments, a superheater between the banks, and baffling arranged to direct the gases over the tubes to the outlet.

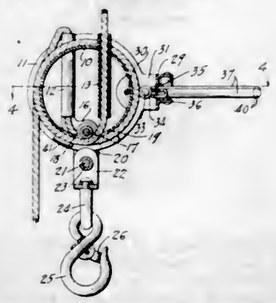
12. A water tube boiler having front and rear vertically extending water compartments connected to two banks of horizontally inclined water tubes, the banks being spaced apart to provide a superheater chamber, said chamber having a height as great as that of a plurality of rows of water tubes of the upper bank, baffling for directing the products of combustion, said baffling having a longitudinal baffle extending from the lower ends of the tubes between intermediate rows of water tubes and above a plurality of rows thereof to expose the tubes below said baffle to the flame and gases for the major portion of their length and allowing a free unobstructed entrance of the gashes to the superheater chamber at the high ends of the tubes, and an upwardly projecting baffle extending from the inner end of the horizontally extending baffle transversely of the water tubes above the superheater, and a superheater located in said superheater chamber and having tubes with return bends within the boiler setting, the tubes extending transversely of the boiler tubes and some of said superheater tubes being located within the upper portion of said chamber to prevent short-circuiting of the gases through that part of the chamber.

1,470,745. SEWAGE-DISPOSAL APPARATUS. HANS JOHNSON, Port Jefferson Station, N. Y. Filed Dec. 1, 1922. Serial No. 604,235. 11 Claims. (Cl. 210—5.)



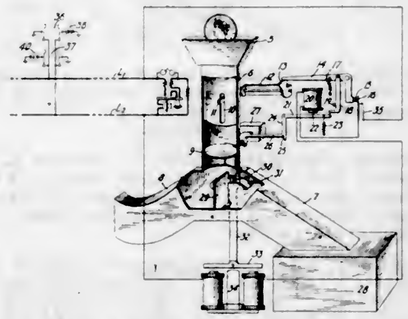
1. A sewage disposal apparatus comprising a septic tank located in an earth pit and surrounded by an annular gravel filled zone which communicates directly with the adjacent earth, an impervious partition dividing the tank in two compartments, the wall on one side of the partition being impervious, a floor cooperating with said partition and impervious wall to form a bacterial digestion chamber, the tank wall on the other side of the partition having openings therethrough to said zone and forming a storage reservoir, a cover for the tank, means for introducing sewage into the digestion chamber, and means providing an overflow passage from said chamber to the reservoir.

1,470,746. FRICTION FIRE ESCAPE. SWAN JOHNSON, Richwood, W. Va., assignor of one-half to Julia Erlandson, Richwood, W. Va. Filed Dec. 6, 1922. Serial No. 605,191. 9 Claims. (Cl. 227—25.)



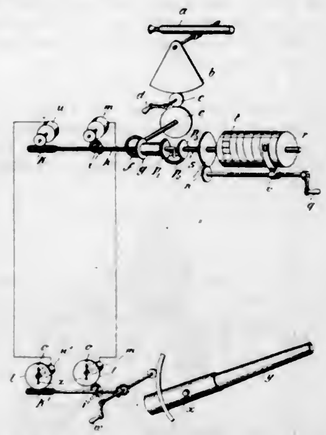
1. In a fire escape, a drum having end flanges and formed to provide ducts extending inward from opposite surfaces of the drum, pulleys disposed at the inner ends of the ducts, a cable passing around the periphery of the drum and passing through said ducts and over said pulleys, a shackle operatively connected to the drum, and manually operable means mounted on the drum for frictionally engaging the cable with the drum.

1,470,747. COIN COLLECTOR. JOSEPH P. JULEY, Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 29, 1919. Serial No. 347,916. 6 Claims. (Cl. 194—16.)



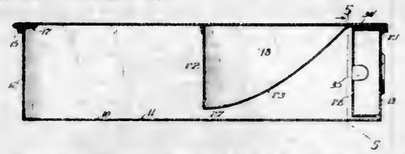
1. A coin collector comprising a coin hopper, means therein for temporarily arresting coins, means consisting of a slow-acting relay for operating said arresting means to release coins deposited thereon, a pair of chutes extending from the hopper, and means consisting of a quick-acting polarized relay in series connection with said slow-acting relay independent of and operating prior to said operating means for deflecting coins into one chute or the other.

1,470,748. APPARATUS FOR THE LONG-DISTANCE ADJUSTMENT OF GUNS AND THE LIKE. PAUL KAMINSKI, Berlin-Pankow, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Dec. 6, 1922. Serial No. 605,313. 1 Claim. (Cl. 89—41.)



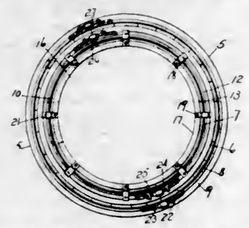
In an electrical system for the telecontrol of the pointing of guns or the like on the follow-the-pointer or hunting principle, in which the target, the governor telscope and the guns have different levels, a plurality of guns lying in the same level, comprising electrical receivers on the gun and electrical transmitters acting upon said receivers, a governor telescope located at a level different from that of the target, transmitters mechanically connected to the telescope, and a range scale mechanically connected to said transmitters, said scale being calibrated for the angle of elevation in addition to the angle resulting from the difference of height in the levels of the governor telscope, and the target.

1,470,749. CASH BOX. MEYER KAMENSTEIN, New York, N. Y. Filed Jan. 21, 1921. Serial No. 438,862. 15 Claims. (Cl. 232—4.)



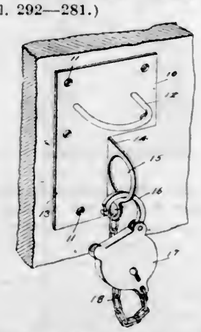
1. An open top coin box provided with a beaded upper edge, a reinforcing wire contained in said bead, a cover hinged to said wire at one edge of the box, a coin receptacle provided with a bendable finger extending from one edge thereof, and bent about said wire to pivotally mount the coin receptacle in place, said cover constituting a means for engaging the coin receptacle to hold the same in place against rattling.

1,470,750. SHIPPING RECEPTACLE. WILLIAM C. KLAUSER, Hartford, Conn. Filed Oct. 2, 1920. Serial No. 414,255. 11 Claims. (Cl. 217—95.)



1. A shipping package comprising a plurality of sections, each formed in cross section substantially on the arc of a circle, bands encircling said sections at a distance from the lengthwise center thereof, flanges extending peripherally around and from said bands to provide a rolling rest for said package and a protection for means for securing the ends of the band, and means for securing the ends of the band together.

1,470,751. HASP LOCK. WILLIAM F. KNAPP, Denver, Colo. Filed Jan. 18, 1921. Serial No. 438,159. 2 Claims. (Cl. 292—281.)

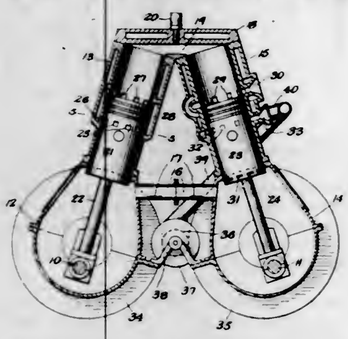


1. The combination with a lock, of a plate, a staple mounted on said plate, a flexible element terminally connected with the plate and lock, and a loop carried by said plate for supporting said lock.

1,470,752. INTERNAL-COMBUSTION ENGINE. CARL H. KNUDSEN, Brooklyn, N. Y., assignor to The Knudsen Motor Corporation, Wilmington, Del., a Corporation of Delaware. Filed Apr. 26, 1920. Serial No. 376,548. Renewed Sept. 30, 1922. Serial No. 591,666. 8 Claims. (Cl. 123—53.)

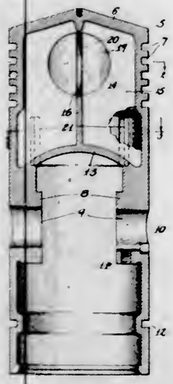
1. In an engine of the class described, a pair of cylinders connected by a cylinder head having a combustion

chamber in communication with said cylinder, a crank case at the bottom of each of said cylinders, means for placing said crank cases in communication, crank shafts passed through said crank cases, pistons in said cylinders



and in operative connection with said crank shafts, and means for passing air under pressure into and through one of said pistons and cylinders, and into the crank cases of the separate cylinders to increase the pressure of air therein.

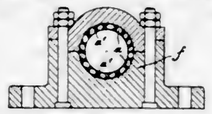
1,470,753. PISTON CONSTRUCTION. CARL H. KNUDSEN, Brooklyn, N. Y., assignor to The Knudsen Motor Corporation, Wilmington, Del., a Corporation of Delaware. Filed July 1, 1922. Serial No. 572,263. 3 Claims. (Cl. 123—171.)



1. A piston of the class described, said piston being substantially tubular in form and provided with a closed head, a transverse arc-shaped partition wall at a predetermined distance from said head, and forming a closed compartment in the head end portion of the piston, the periphery of the piston being provided adjacent to and above said partition wall with a plurality of spaced apertures opening into said compartment and outwardly through the piston, and a vertical apertured partition wall subdividing said compartment, and the apertures in said piston wall.

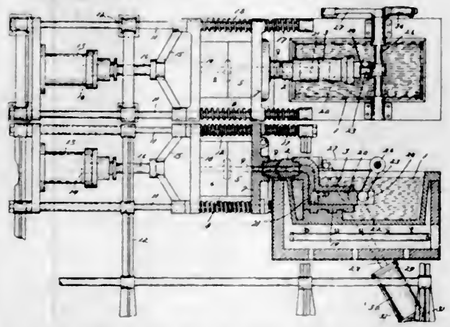
1,470,754. LINER, BUSH, AND THE LIKE FOR BEARINGS AND PEDESTALS. GEORG AUGUST RUDOLF KÜHNE, Hamburg, Germany, assignor to the Firm of Maschinen- und Wellenlager Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Filed Mar. 25, 1922. Serial No. 546,727. 4 Claims. (Cl. 64—10.)

2. A bearing liner or bush composed of a layer of soft metal, stones, sheet metal strips bent to U-shape, into which the stones are inserted, metal rings connecting the metal strips to form a cage, the said cage together with



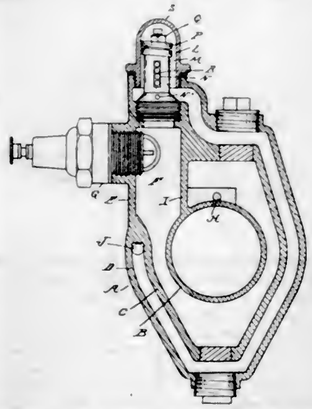
the stones being embedded in the soft metal in such manner that both, the stones and the soft metal form the bearing surface.

1,470,755. DIE-CASTING MACHINE. VICTOR E. LANE, Detroit, Mich., assignor to Michigan Smelting and Refining Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 4, 1921. Serial No. 458,482. 12 Claims. (Cl. 22—70.)



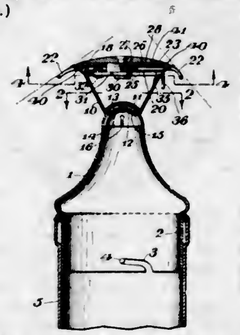
1. The combination with a horizontally extending nozzle for the passage of molten metal, of a sectional mold having horizontally movable sections, the inner of said sections having a passageway therethrough for placing the cavity within said mold in communication with said nozzle, and yieldable means for moving said sections horizontally away from said nozzle and for separating said sections from each other.

1,470,756. FUELIZER. JOHN G. LANNING, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 15, 1921. Serial No. 437,539. 9 Claims. (Cl. 123—122.)



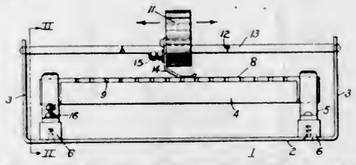
1. A fuelizer comprising a combustion chamber, a connection between said combustion chamber and the intake of an internal combustion engine, a supply connection for combustible mixture, a valve for controlling said supply connection, and a thermostat controlled by the temperature of said combustible mixture for operating said valve.

1,470,757. SAFETY RAZOR. ALEXANDER B. LAUTERBACH, Philadelphia, Pa., assignor to The De Luxe Brush Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 3, 1920. Serial No. 421,456. 6 Claims. (Cl. 30—12.)



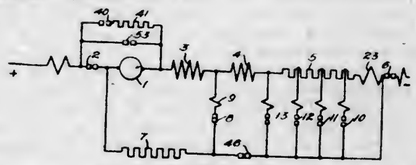
1. In a safety razor, the combination of a handle having a dome-shaped hollow upper end, a head comprising sides and a closed end portion, the said end portion being curved inwardly to form a concave surface adapted to hug the convex outer surface of the dome-shaped end of the said handle, and yielding means connected with said head and engaging said handle for connecting said head to the said handle.

1,470,758. RHEOSTAT. GEORGE M. LITTLE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 29, 1920. Serial No. 426,920. 10 Claims. (Cl. 219—48.)



8. In a rheostat, the combination with a resistance rod, having a plurality of notches extending across its contact surface, and a metallic coating between said notches, of a contact member slidably mounted for shunting said rod.

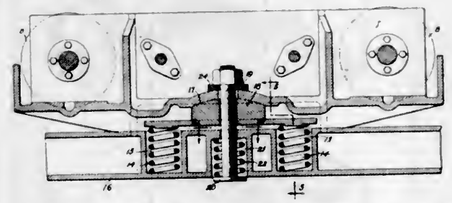
1,470,759. SYSTEM OF CONTROL. FRED M. PARKS, Murraysville, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 21, 1920. Serial No. 432,332. 12 Claims. (Cl. 172—179.)



1. The combination with an electric motor, and dynamic-braking means for said motor, of means for insuring increased field excitation of said motor prior to dynamic braking, and means for rendering the second means ineffective.

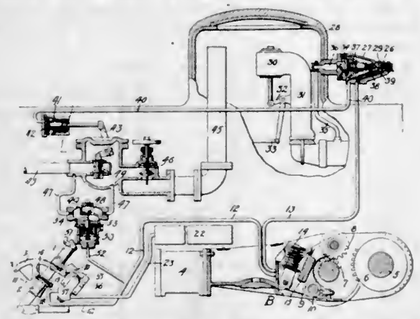
7. The combination with an electric motor and an accelerating resistor, of a plurality of contactors for shunting said accelerating resistor, a master switch for controlling said contactors, dynamic-braking means for said motor, means comprising said master switch, said contactors and a relay for the shunting of said accelerating resistor prior to the closing of the dynamic-braking circuit to insure increased field excitation of the motor prior to dynamic braking.

1,470,760. MOUNTING FOR LOCOMOTIVE BOOSTER MOTORS. FRANK R. PETERS, New York, N. Y., assignor to Franklin Railway Supply Company, a Corporation of Delaware. Filed Dec. 8, 1921, Serial No. 520,822. Renewed Mar. 20, 1923. 4 Claims. (Cl. 105—115.)



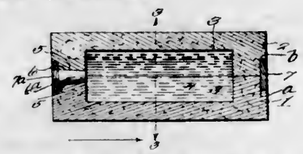
1. A mounting for locomotive booster motors comprising in combination with the axle and the frame of a truck, a bearing plate between the booster motor and the truck frame, a rounded seat for the booster motor on said plate, and yielding supporting means between the plate and the truck frame.

1,470,761. LOCOMOTIVE BOOSTER MOTOR-CONTROLLING MECHANISM. FRANK R. PETERS, New York, N. Y., assignor to Franklin Railway Supply Company, a Corporation of Delaware. Filed Oct. 2, 1922. Serial No. 591,687. 9 Claims. (Cl. 105—48.)



8. Locomotive booster motor controlling mechanism comprising, in combination, booster entraining mechanism, a booster throttle, means for admitting steam in small quantities to the booster motor during entrainment, and means for preventing opening of the booster throttle till after entrainment.

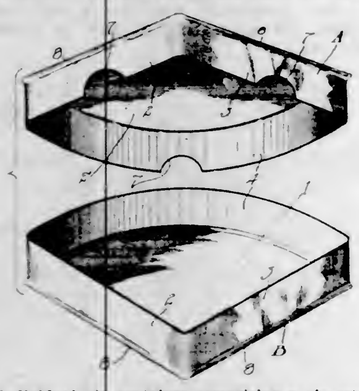
1,470,762. COMBINATION SELF-LUBRICATING AND GERMICIDAL RAZOR HONE. JESSE L. RENEAU, Paris, Tex. Filed Mar. 13, 1922. Serial No. 543,306. 3 Claims. (Cl. 51—213.)



1. A hone comprising two plate-like honing stones of different texture and of a porous nature, secured together

back to back to form a compound hone, said stones being provided with complemental recesses in the backs thereof providing a liquid chamber, and being further provided with a filling opening communicating with said chamber and provided with a removable closure.

1,470,763. INDIVIDUAL PIE CONTAINER. ALEXANDER JOSEPH RICHARDS, Chicago, Ill., assignor of one-half to William H. Greunke, Chicago, Ill. Filed Aug. 5, 1922. Serial No. 579,833. 1 Claim. (Cl. 206—4.)



An individual pie container comprising a pie retaining member having a triangular-shaped body portion with sides, said body portion having an outwardly extending bead around its entire edge and projecting beyond the sides, and a cover having a triangular-shaped body portion and sides, the sides of said cover being adapted to enclose the sides of said retaining member and to be forced outwardly by the bead to provide a liquid-tight joint.

1,470,764. VEHICLE WINDOW AND GUARD. WALTER ROSLUND, Cleveland, Ohio, assignor to The American Coach and Body Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 26, 1922. Serial No. 609,035. 3 Claims. (Cl. 20—521.)

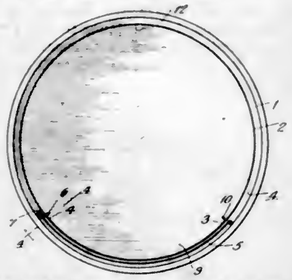


1. In a window, a pane, and a guard secured to the lower edge of the pane, said pane and guard being slidable together up and down, the upper edge of the guard being provided with a groove in which the lower edge of the pane fits.

1,470,765. SATIN WHITE AND PROCESS OF MANUFACTURE. JOHN H. RYAN, Kalamazoo, Mich. Filed May 6, 1920. Serial No. 379,316. Renewed Mar. 7, 1923. 6 Claims. (Cl. 134—20.)

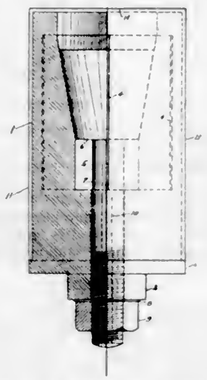
5. A "satin white" material in which the grit matter is pulverized and distributed in fine particles through the colloidal mass, as described.

1,470,766. SHEET-METAL CONTAINER. HENRY J. SCHAFFER, Brooklyn, N. Y., assignor to Jacob Schaffer, Brooklyn, N. Y. Filed May 13, 1922. Serial No. 560,525. 4 Claims. (Cl. 220—22.)



1. A sheet metal container having a lateral wall disposed between end walls with a section of the lateral wall omitted to form a door opening through which access to the interior may be had, one of the side edges of the lateral wall which forms the door opening projecting into the interior of the casing and doubling back upon itself to form a vertically extending shelf supporting rib, then extending back along the outer face of the lateral wall, and then outwardly at right angles thereto to form a vertical door stop rib allowing the slidable door when closed to overlap the lateral wall, the shelf supporting rib having at a point intermediate of its height a slot extending into the same from the inner edge and into which the edge of a shelf may be disposed for support.

1,470,767. EMERGENCY BOILER-TUBE REPAIR PLUG. GUSTAV A. SCHAPER, New York, N. Y. Filed Mar. 1, 1922. Serial No. 540,184. 1 Claim. (Cl. 137—76.)

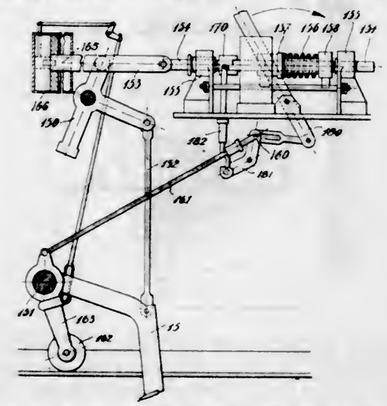


The combination of a tube end having a hole, circular in cross section, a similarly shaped cup of soft annealed metal fitted into the hole and a plug shaped to fit inside the soft metal cup, an outwardly projecting square shank on the plug, a screw-stem fitted onto an expanding wedge, said expanding wedge fitted to the interior of the plug, a washer on the screw-stem and bearing against the square shank of the plug and a nut on the screw-stem bearing against the masher.

1,470,768. MACHINE FOR REMOVING WEEDS FROM RAILWAY ROADBEDS. AUGUSTE SCHEUCHZER, Reneus, near Lausanne, Switzerland, assignor to Ferrodesherbeuse Scheuchzer Societe Anonyme, Reneus, Switzerland. Filed Apr. 19, 1922. Serial No. 555,553. 6 Claims. (Cl. 104—279.)

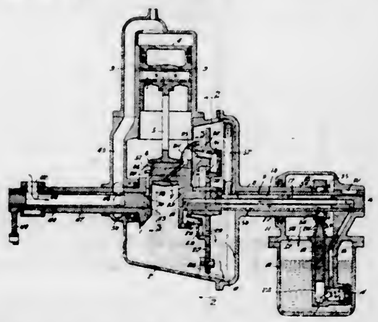
3. A machine of the character described comprising a support adapted to traverse railway tracks, a ground

engaging knife, motor actuated means for raising and lowering said knife, tie engaging means associated with the knife for controlling the motor driven means for automatically lifting the knife over the tie, and means for regulating the knife raising action of the motor actuating means including a member connected to the



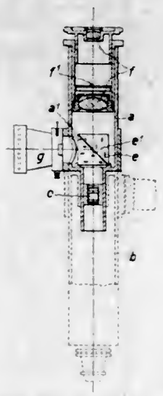
motor actuating means and reciprocal in the support, coacting stops mounted on the member and an operable connection between one of said stops and the tie engaging means for partially rotating said stop, substantially as and for the purpose set forth.

1,470,769. OIL-CIRCULATING SYSTEM. LOUIS E. SHAW, East Orange, N. J., assignor to Williams Motors Inc., New York, N. Y., a Corporation of Delaware. Filed Oct. 26, 1920. Serial No. 419,607. 3 Claims. (Cl. 184—6.)



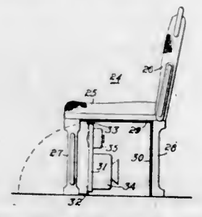
2. In a rotary cylinder engine, having a stationary hollow crank shaft and a crank case rotatable thereon, an oil circulating system comprising a stationary oil reservoir, means for supplying oil therefrom in bulk thru said hollow shaft into said crank case, an annular chamber, rotatable with said case and adapted to receive the oil so supplied, said chamber having a plurality of discharge openings, permitting the oil to escape into the crank case, a trap attached to said annular chamber, adapted to receive the oil escaping from some of said openings, a discharge tube in said trap for discharging by centrifugal force the oil contained in said trap, and a catcher plate mounted on said crank shaft adjacent to the point of oil consumption and extending for a suitable peripheral length into the tangential plane, in which the oil is discharged from said tube, to receive a predetermined amount of the oil discharged from the tube in accordance with the peripheral extent of the plate, and adapted to lead the oil to the point of consumption, a shield also mounted on the crank shaft adjacent to the point of oil consumption and being located between said catcher plate and the path of the discharge tube, said shield being angularly operable in front of said catcher plate to deflect a desired amount of oil otherwise caught by said plate, and means for collecting the oil discharged into the crank case and returning it to said stationary reservoir.

1,470,770. TUBE EXTENSION FOR MICROSCOPES. HENRY SIEDENTOPF, Jena, Germany, assignor to the Firm of Carl Zeiss, Jena, Germany. Filed Oct. 16, 1922. Serial No. 594,941. 2 Claims. (Cl. 88—39.)



1. In a tube extension for miscroscopes a Huygenian ocular, a photographic camera, a ray-dividing surface, optical means for transmitting simultaneously part of the luminous rays entering the tube into the ocular and the remaining part into the photographic camera, and a negative lens system disposed in front of the said ray-dividing surface, the focal length of this negative lens system being at the most equal to that of the ocular.

1,470,771. CONTROL APPARATUS. KARL A. SIMMON, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Original application filed Apr. 9, 1919, Serial No. 288,858, now Patent No. 1,363,679, dated Dec. 28, 1920. Divided and this application filed Aug. 6, 1920. Serial No. 401,740. 7 Claims. (Cl. 105—342.)

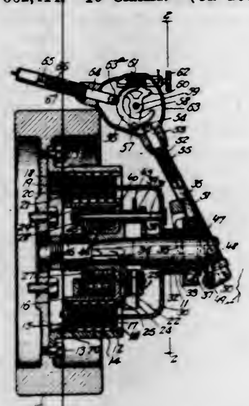


1. In an electric vehicle, the combination with an electrical device normally located in a compartment under a vehicle seat, of means for swinging the device outside of said compartment into an uncovered position.

1,470,772. PASTE FOR ETCHING GLASS. LEO SIMON, New York, N. Y., assignor to Henry L. Greenbaum, New York, N. Y. Filed Aug. 21, 1922. Serial No. 583,371. 5 Claims. (Cl. 41—42.)

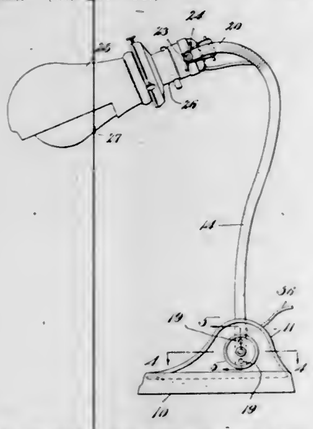
1. A paste for etching glass, containing ammonium sulphate, hydrofluoric acid and a liquid mucilage.

1,470,773. CLUTCH CONTROL AND GOVERNOR. BYRON C. SMALL, Morris, Ill. Filed Mar. 1, 1920. Serial No. 362,414. 10 Claims. (Cl. 264—11.)



1. The combination of a driving member, a driven member, friction means through which power is transmitted to said driven member, means permitting independent torsional movement of said driving member with respect to said driven member, the extent of such movement depending upon the load on the engine, and means continually under pressure controlled by said torsional movement for increasing the pressure in said friction means, and for increasing the power supplied to said driving member.

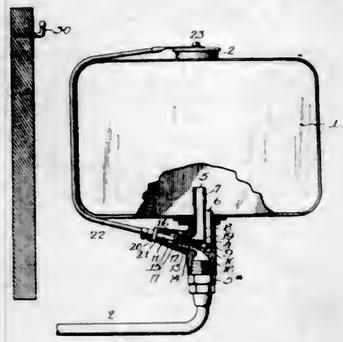
1,470,774. PORTABLE LAMP. WILLIAM J. SPENCE, Lynn, Mass. Filed May 15, 1922. Serial No. 561,076. 3 Claims. (Cl. 240—81.)



1. In an improved lamp base, the combination of a base, a pair of ears spaced apart from each other and extending upwardly therefrom, alined perforations in said ears, split spring members in said perforations, a goose-neck, a threaded shaft passing through the lower end of the goose-neck and through the split spring members, and means for adjusting the pressure on the split spring members for varying the tension exerted thereby on the goose-neck.

1,470,775. FUEL-RESERVE SYSTEM. PERCY W. STEPHENS, Chicago, Ill. Filed Dec. 31, 1921. Serial No. 526,425. 5 Claims. (Cl. 158—46.5.)

5. In combination, a tank, a valve casing having a duct extending between the interior and the exterior of said tank, a valve in said duct and having a stem projecting through an opening in said casing to the exterior thereof, packing material surrounding said stem upon the inside and outside of the wall of said casing, a spring within



said casing adapted to simultaneously maintain said valve in closed position and to exert pressure upon both said inner and outer packing material, and adapted when said valve is forced to open position to exert increased pressure upon said inner packing material.

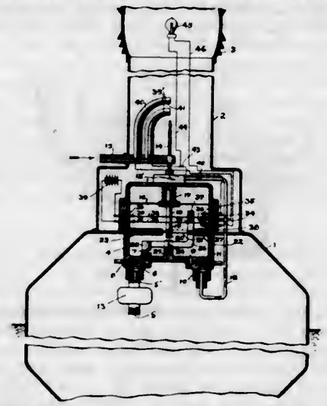
1,470,776. FLASH-LIGHT SWITCH. CHARLES H. STEVENSON, New Haven, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Filed Jan. 10, 1921. Serial No. 436,067. 12 Claims. (Cl. 200—60.)



1. In a contact device for battery hand lamps, the combination of a resilient normally inoperative contact member and a pivoted cam having a face movable into direct continuing engagement with said member and cooperating with said member to hold the cam from accidental displacement with the member in operative position when a continuous lighting of the lamp is desired, substantially as described.

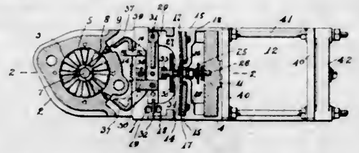
1,470,777. ART AND APPARATUS FOR LIGHTING. WARNER T. TABB, New York, N. Y., assignor to The Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed May 5, 1917. Serial No. 166,674. 14 Claims. (Cl. 9—8.3.)

11. In apparatus of the class described, in combination, means adapted to store gas under pressure, a thermo-electric couple, means adapted to burn gas from said storage means and adjacent said couple, a chamber having a diaphragm, said chamber being interposed between said burning means and said storage means and connected to the latter through a valve, an electric lamp, a switch adapted to connect said lamp to said couple, means connecting said diaphragm to said valve whereby said valve controls



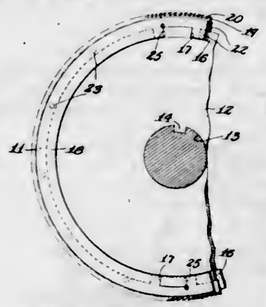
the flow intermittently of gas to said chamber to extend said diaphragm intermittently, and means for operating said switch from said diaphragm.

1,470,778. OPERATING GEAR. WARNER T. TABB, Brooklyn, N. Y., assignor to Duplex Engine Governor Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Mar. 18, 1920. Serial No. 367,011. 11 Claims. (Cl. 137—139.)



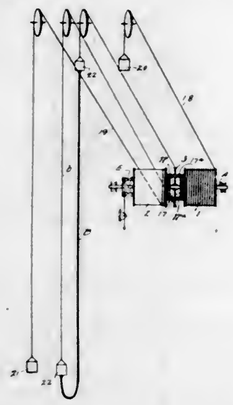
1. The combination of a magnet, a valve to be actuated by the magnet, and resilient means between the magnet and the valve designed to enable the magnet to actuate the valve gradually and uniformly in response to unequal variations in the force exerted by the magnet.

1,470,779. SAW FOR LINTER MACHINES. HERMAN TATJE, Brooklyn, N. Y. Filed Oct. 18, 1922. Serial No. 595,263. 13 Claims. (Cl. 19—63.)



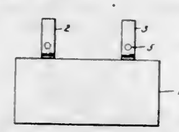
1. A device of the class described, comprising a mounting disk, a blade member adapted to be detachably mounted on the periphery of said disk, and means on said disk and said blade member for retaining said blade member against movement thereon, when in predetermined position, said blade member comprising a plurality of blades mounted between and secured to annular side members.

1,470,780. BALANCING OF THE WEIGHT OF ROPES. LUDWIG THALLMAYER, Berlin-Charlottenburg, Germany, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Filed Nov. 23, 1921. Serial No. 517,411. 4 Claims. (Cl. 187—94.)



3. A winding rope arrangement for hoisting machinery, compriaing two winding ropes, driving means therefor capable of relative adjustment, a balance rope and driving means for said balance rope, said latter driving means having a differential gear connection with both of said rope driving means to correspondingly adjust the balancing effect of said balance rope during the relative adjustment of the driving means for the winding ropes, the gearing ratio of said differential gear being suitably chosen so that at every position of the winding rope driving means relative to each other, a complete balance of the weight of the winding rope is produced.

1,470,781. ROLLED CONDENSER. PHILLIPS THOMAS, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 3, 1917. Serial No. 194,636. 2 Claims. (Cl. 250—41.)

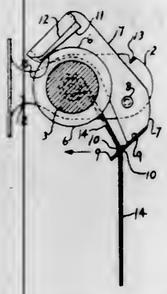


1. A method of constructing condensers which comprises building up a condenser structure with a plurality of leads for each pole, impregnating the structure, and finally spot-welding the leads of each pole.

1,470,782. WINDOW-SHADE-ROLLER MECHANISM. BENJAMIN HARRY TIDY, Brantford, Ontario, Canada. Filed Oct. 6, 1921. Serial No. 505,868. 1 Claim. (Cl. 156—35.)

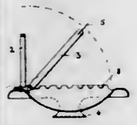
In a window shade roller mechanism, the combination with a roller having its ends journalled in supporting brackets, and a curtain wound thereon, of a spool rigidly carried by the roller at one end thereof and comprising a circular flange having a smooth metallic peripheral edge, a single operating cord having one end secured to the spool, a brake lever pivotally mounted intermediately of its length upon the roller supporting bracket, a wedge shaped rubber brake shoe carried at the upper end of the lever, the free end of the operating cord passing freely through an orifice in the lower end of the brake lever and suspended freely therebelow, the brake lever normally

gravity held in a forwardly and downwardly inclined position in which the brake shoe is in frictional rubbing engagement with the aforesaid smooth peripheral edge of the circular flange of the spool and in which the point of contact of the brake shoe with said flange, and the orifice in the lower end of the brake lever, lie on opposite sides,



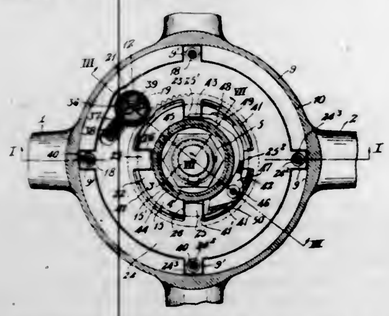
both vertically and horizontally of the axis of the spool, and a stop carried by the roller supporting bracket, said stop projecting into the path of oscillation of the brake lever and adapted to engage the rear side thereof for limiting the oscillation of the brake lever away from the spool.

1,470,783. KITCHEN UTENSIL. ERNEST P. VINCENT, New York, N. Y. Filed July 8, 1922. Serial No. 573,764. 4 Claims. (Cl. 146—7.)



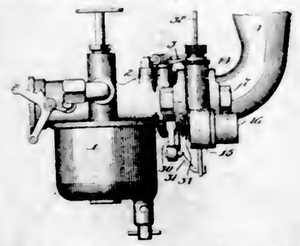
1. A kitchen utensil of the class described, a supporting board, provided with a raised portion, and in combination therewith a movable slicing block transversely mounted at one end adjacent said raised portion.

1,470,784. STEERING WHEEL. JOHN VONS, Lakewood, Ohio. Filed Sept. 12, 1921. Serial No. 499,999. 3 Claims. (Cl. 74—129.)



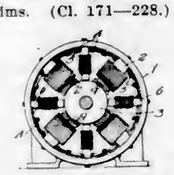
3. An automobile steering wheel comprising, a wheel proper having a hub; a cover plate secured within said hub; a steering post; a central member rotatably fixed to said steering post; a cap extended through and upwardly of said plate; means secured within the hub and below said plate for locking and unlocking said cap; and key-operated means adapted to actuate the cap-locking means and to lock and unlock said hub and said central member.

1,470,785. AUXILIARY AIR VALVE FOR INTERNAL-COMBUSTION ENGINES. ALBERT WAGNER, Cincinnati, Ohio, assignor to The Wemb Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 23, 1923. Serial No. 634,095. 3 Claims. (Cl. 48—180.)



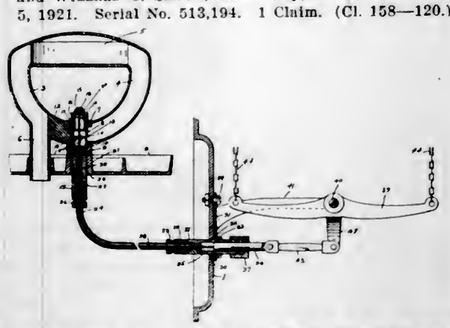
1. A device of the character described adapted to be placed between a carbureter and an internal combustion engine comprising a body having an opening to register with the outlet of the carbureter, said body having a plurality of passages to admit air to said opening, said passages having inlet ports in a side of the body, a cut-off valve rotatably mounted on the body and fitting close to the side of the same, said valve consisting of a disk normally covering both said inlet ports and provided with diametrically opposite notches whereby rotation of the disk will successively uncover both said ports, and a normally closed valve in one of the passages operable to open after both inlet ports have been uncovered.

1,470,786. DYNAMO-ELECTRIC MACHINE. HENRY H. WAIT, Chicago, Ill., assignor to The Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 22, 1917. Serial No. 187,647. 2 Claims. (Cl. 171—228.)



1. In a dynamo-electric machine, a field structure including laminated polar projections, a magnetic yoke therefor comprising an interpolar path of solid material and a shunting interpolar path of laminated material, means for variably exciting certain of said polar projections, and means for producing a core section of relatively high saturation adjacent to, but separated from, the faces of the same polar projections.

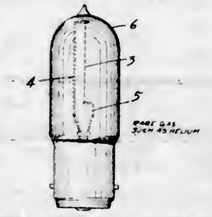
1,470,787. OIL-VAPOR BURNER. NELSON J. WARREN and WILLARD C. SMITH, Sioux City, Iowa. Filed Nov. 5, 1921. Serial No. 513,194. 1 Claim. (Cl. 158—120.)



An oil-vapor burner for a heater having an enclosing wall part, embodying a retort receptacle adapted to be

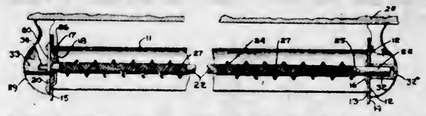
positioned within the heater and receive oil from a source of supply, a nozzle below the receptacle including an upright hollow body, and a jet on the upper end thereof, a vapor passage between the receptacle and body, a supporting member projecting through the wall part of the heater, a tube having one end secured to the lower end of said body and the other to said supporting member, a throttle-wire extending through the tube and into the body and adapted to be extended to or withdrawn from the jet opening to regulate the flow of vapor from the jet, and means for extending or retracting the wire to any desired position, including a bracket arm adapted to be mounted on said wall part, a lever fulcrumed on the arm, and an operative connection between the lever and wire.

1,470,788. BALLAST TUBE. PAUL THORNE WEEKS, Caldwell, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed July 2, 1921. Serial No. 482,063. 11 Claims. (Cl. 219—63.)



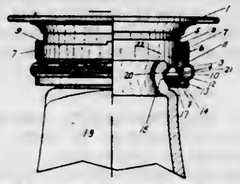
1. A ballast tube comprising a resistance material having a rapidly increasing temperature coefficient at a predetermined temperature and inclosed within an envelope containing a gas which is not appreciably absorbable by the resistance material.

1,470,789. METAL SHADE ROLLER. EDWARD E. WHITMORE, Chicago, Ill., assignor to The Curtain Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 24, 1919. Serial No. 347,144. 10 Claims. (Cl. 156—36.)



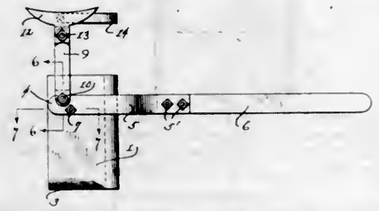
1. In a metal shade roller, a barrel, caps at the end thereof, an axle extending longitudinally of the barrel with ends projecting through the caps, a spring surrounding the axle with one end attached thereto and the other end to one of the caps, stamped metal concave brackets facing the roller ends, bearing studs for the axle disposed within the brackets and having openings aligned with the axle, one of said studs having a lateral recess, and pawls mounted on the adjacent cap and adapted alternatively to engage the recess.

1,470,790. SHADE HOLDER. OTTO C. F. WILCKE and JOHN KIRBY, Jr., Dayton, Ohio, assignors to The Dayton Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed Oct. 16, 1922. Serial No. 594,847. 2 Claims. (Cl. 240—132.)



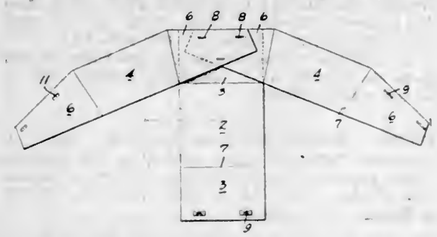
1. In a shade holder, in combination, an externally screw threaded body ring adapted to be attached to a fixed support, a casing ring surrounding the same and being in threaded engagement therewith, a circumferential channel formed in said casing ring at the bottom thereof, and a resilient shade retainer comprising a single non-continuous sheet metal ring loosely mounted in said channel; said retainer having a portion which in cross section conforms substantially to the neck of the shade and an incline portion extending downwardly and outwardly therefrom adapted to engage the supporting ring upon upward movement of the casing ring and thereby to circumferentially compress the retainer causing it to grip the shade and hold it firmly therein.

1,470,791. TIRE TIGHTENER. HERMAN P. WIENS, York, Nebr. Filed Mar. 8, 1923. Serial No. 623,783. 3 Claims. (Cl. 157—9.)



1. A tire tightener of the class described including a U-shaped sleeve adapted to enclose a spoke of a wheel and having its base resting on the hub of the wheel, a lever having a yoke at one end, the ends of said yoke being pivotally mounted on the sides of said sleeve, arms pivotally mounted on said ends and extending upwardly therefrom, head members carried by the upper ends of said arms and adapted to engage the underside of the felly of said wheel, and a brace connecting said head for moving the same simultaneously.

1,470,792. KNOCKDOWN BASKET. BARTLETT R. WILLIAMSON, San Francisco, Calif. Filed Feb. 9, 1922. Serial No. 535,156. 3 Claims. (Cl. 229—23.)

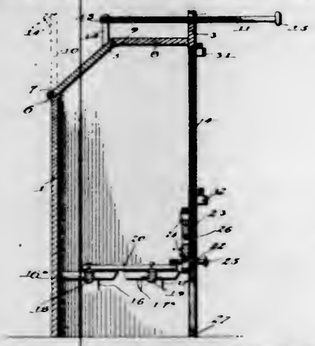


1. An article of manufacture from which a basket may be folded, comprising a bottom forming member, a pair of side forming members, all of said members being scored to divide the end portions thereof into sections foldable relative to the remainder of the member to provide end forming sections, and means permanently securing the end forming sections at one end of each of said side members and bottom member together in superimposed end forming relation, the free ends of the side members extending diagonally from each side of the bottom forming member.

1,470,793. FIREPLACE CONSTRUCTION. LUCAS B. WILLIAMS, Hattiesburg, Miss. Filed May 20, 1922. Serial No. 562,364. 2 Claims. (Cl. 126—126.)

1. In a fire place structure, a body including a vertical back plate and a pair of vertical side plates extending forwardly in diverging relation from the side edges of the back plate, said side plates being provided on their inner face with a horizontally spaced pair of alined in-

wardly extending lugs fashioned at their upper side to provide seats for the ends of removable grate bars, the distance between the inner ends of the lugs of the respective pairs varying with the position of the pairs of



lugs in respect to the plane of the front edges of the side plates and the distance between the inner ends of the lugs of the pair proximate to the plane of the front edges of the side plates being greatest.

1,470,794. DENTIFRICE. VIGGO VALDEMAR JULIUS ANDRESEN, Copenhagen, Denmark. Filed Apr. 15, 1921. Serial No. 461,636. 3 Claims. (Cl. 167—9.)

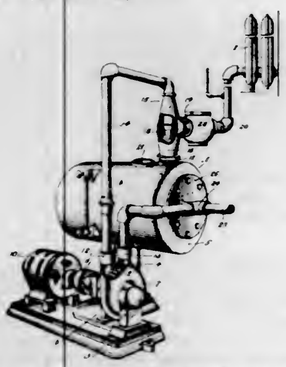
1. A dentifrice of the character set forth, containing reactive substances adapted to generate carbonic acid, lime salts of a composition analogous to the tooth material, and organic substances capable of forming reversible combinations with the carbonic acid.

3. A dentifrice of the character set forth, comprising substantially 140 parts by weight of bicarbonate of soda, 112 parts tartaric acid, 10 parts ammonium chloride, 40 parts sodium chloride, 40 parts calcium phosphate, 40 parts calcium carbonate, 40 parts magnesium carbonate, and 40 parts of glycocoll.

1,470,795. MEDICINAL COMPOUND FOR COWS. EARL H. BABBITT, Edgewater, Colo. Filed Apr. 8, 1921. Serial No. 459,722. 8 Claims. (Cl. 167—10.)

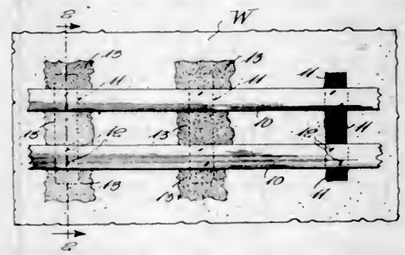
2. A medicinal compound for the treatment of contagious abortion in cattle, comprising carbolic acid, indigo and sodium chloride.

1,470,796. STEAM HEATING SYSTEM. HARRY L. BACHMAN, Columbus, Ohio, assignor to The Weinman Pump Manufacturing Co., Columbus, Ohio, a Corporation of Ohio. Filed Feb. 2, 1921. Serial No. 441,779. 2 Claims. (Cl. 103—5.)



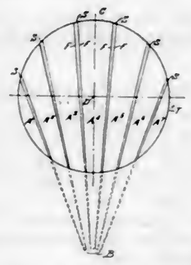
1. In a heating system, a vacuum producing unit comprising a base, a reservoir, a hollow pedestal mounted upon said base and operative to support said reservoir, said pedestal being in communication with the interior of said reservoir, a motor driven pump positioned upon said base, a conduit between the reservoir and pump, the inlet of said pump being in communication with said conduit, a return pipe leading from the discharge of said pump back to said reservoir, an injector in said pipe, a return pipe from a steam heating system in communication with said pipe at a point above said injector, a boiler return pipe in communication with said pump, and a valve structure automatically operative in accordance with the liquid level within said reservoir for controlling the flow of the liquid through said boiler return pipe.

1,470,797. FLOOR OR WALL GROUND. THOMAS W. BAKER, Lewiston, Idaho. Filed Sept. 15, 1922. Serial No. 588,500. 1 Claim. (Cl. 72—101.)



A floor or wall ground including spaced rails, a plurality of spaced reticulate anchoring elements for the rails extending transversely across said rails and supporting the rails in spaced relation and plastic bonds pressed through the ends of said elements and through the intermediate portions thereof between the rails.

1,470,798. REFLECTOR FOR USE IN LIGHT PROJECTORS. JOHN G. BALSILLIE, Melbourne, Australia. Filed Feb. 15, 1923. Serial No. 619,225. 7 Claims. (Cl. 240—41.)

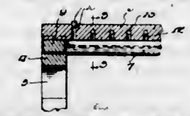


1. A light projecting reflector comprising a number of wedge shaped surfaces arranged side by side with the wider portions all lying on one side of the axis of the reflector, said surfaces having their bounding edges in planes converging to a concentrated or small area at one side of the periphery of the reflector, each surface being distorted from a surface of revolution and the elements joining the bounding edges of each surface being straight and the elements of the different surfaces radiating from differently located loci.

1,470,799. POULTRY ROOST. DANIEL BARTMAN, Larned, Kans. Filed Dec. 19, 1922. Serial No. 607,889. 2 Claims. (Cl. 119—25.)

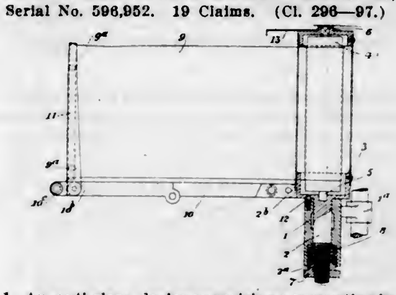
1. In a roost, the combination of spaced supports, perches extending between the supports and provided with longitudinal series of openings in their bottoms and

cross passages opening through their opposite sides and communicating directly with the first-mentioned openings,



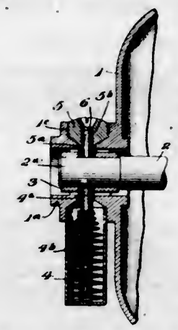
and troughs supported by the spaced bars immediately below and against the under sides of the perches and adapted to contain a disinfectant.

1,470,800. GLARE SCREEN FOR VEHICLES. JOHN MCCLURE BARBY, Belfast, Ireland. Filed Oct. 26, 1922. Serial No. 596,952. 19 Claims. (Cl. 296—97.)



1. An anti-glare device comprising a supporting bracket, a casing turnably mounted in said bracket, a roller turnably supported in said casing, a flexible screen of anti-glare material attached to said roller and normally wound thereon, and collapsible means carried by said casing for retaining said screen in the extended position when required.

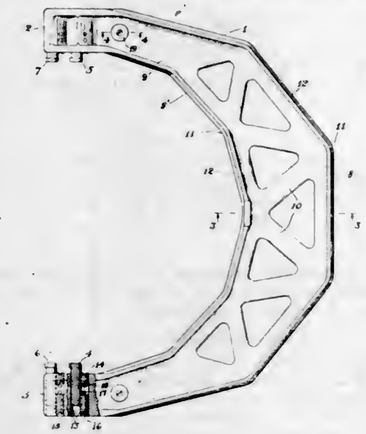
1,470,801. COMBINED BUSHING-RETAINING SCREW AND LUBRICATOR. DONALD MCQUEEN BLISS, Battle Creek, Mich., assignor to H. B. Sherman Manufacturing Co., Battle Creek, Mich., a Corporation of Michigan. Filed May 9, 1921. Serial No. 467,849. 2 Claims. (Cl. 64—24.)



1. In combination, a bearing, a bushing in the bearing, a shaft journaled in the bushing and means for lubricating the journal; with a hollow screw tapped through the bearing and having its inner end reduced and entered within the bushing, said screw having an axial bore extending through the reduced portion and a lubricating means filling the bore.

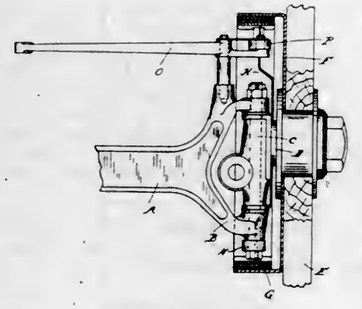
1,470,802. GAUGE. BRYANT H. BLOOD, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 22, 1920. Serial No. 353,379. 18 Claims. (Cl. 33—163.)

1. A gauge having a contact member mounted to slide lineally therein, two independent devices engaging the member, and independent elements forming abutments adapted to contact with said devices and acting in opposite directions, said devices being adapted to adjust



the member and lock it in adjusted position within the gauge and extending in the general direction of movement of the member.

1,470,803. STEERING-WHEEL BRAKE. ALANSON P. BRUSH, Detroit, Mich. Filed Dec. 5, 1921. Serial No. 519,907. 10 Claims. (Cl. 188—194.)

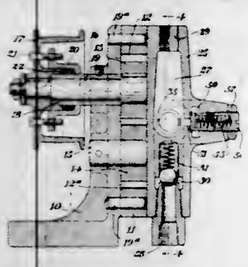


5. The combination with an axle and a spindle pivotally connected thereto, of a wheel mounted on said spindle, a drum on said wheel surrounding the pivotal connection of said spindle, a brake shoe within said drum, a member mounted on said spindle forming a support for said brake shoe, an anchor for said brake shoe connected to the stationary portion of the axle and pivotally connected to the shoe in alignment with the pivot of said spindle, a lever fulcrumed upon the stationary portion of said axle, and a pivotal connection between said lever and said shoe on the diametrically opposite side of the drum, said pivot being in substantial axial alignment with the pivot of the spindle.

1,470,804. OIL PUMP. EARLE BUCKINGHAM, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed May 11, 1921. Serial No. 468,490. 11 Claims. (Cl. 103—126.)

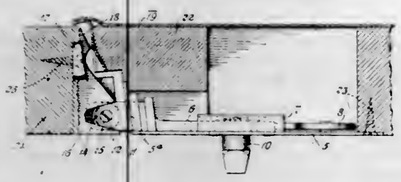
1. A continuous flow pump comprising, in combination, a pump casing, a pair of gears within said pump casing in intermeshing relation with each other, means to rotate

said gears, conduits within said pump casing connecting the opposite sides of said gears respectively with a suc-



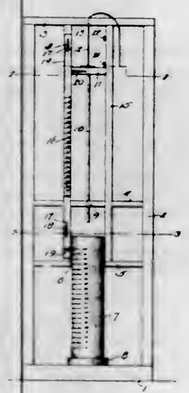
tion and discharge connection, and single valve adapted to reverse the arrangement of said conduits with each reversal of rotation of said gears.

1,470,805. LOCK. JOHN S. BURDICK, Stratford, Conn. Filed July 9, 1919. Serial No. 309,583. 1 Claim. (Cl. 292—169.)



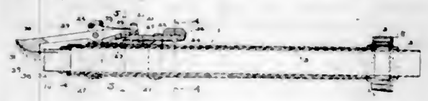
The combination of a striker-plate having a wedge-shaped recess and intermediate opposed depressions therein, a lock including a bolt having a wedge-shaped outer end fitting said recess and a roller carried by said bolt and arranged to ride along said striker-plate into said depressions, the vertical dimensions of the recess being greater than the vertical dimensions of the bolt and the vertical width of the depressions being greater than the axial width of said roller whereby said bolt and roller are vertically movable relatively to said striker-plate.

1,470,806. GELATIN TESTER. ARTHUR D. BURKE, Stillwater, Okla. Filed Nov. 29, 1921. Serial No. 518,503. 2 Claims. (Cl. 265—11.)



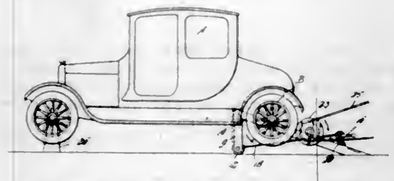
1. In a device for testing gelatin and the like, in combination, a frame, a graduated gelatin container mounted therein and removable therefrom, a plunger mounted above said container and adapted when released from a predetermined raised position to fall freely within certain limits, an adjustable scale bar mounted on said frame and cooperating with a pointer carried by said plunger for indicating the degree of penetration of said plunger in said gelatin when dropped from the raised position.

1,470,807. FISH BONER. ADELBERT E. CARR, Kodiak, Territory of Alaska. Filed Mar. 20, 1922. Serial No. 544,990. Renewed Aug. 4, 1923. 5 Claims. (Cl. 17—3.)



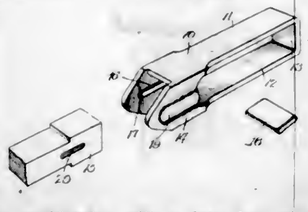
5. In a fish boner having a cylindrical rotary cutter, a tongue extending within the cutter, and means for imparting an up and down movement to the tongue.

1,470,808. VEHICLE POWER JACK. ZEDDOCK CALHOON, Luton, Iowa. Filed Apr. 13, 1923. Serial No. 631,820. 3 Claims. (Cl. 74—106.)



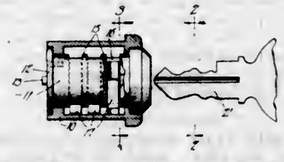
1. In a vehicle power jack of the class described, a frame, supporting legs hingedly secured upon the front end of said frame, means for extending said supporting legs to a vertical position for raising the front end of the frame, a shaft journaled across said frame, drive wheels upon the opposite ends of the shaft adapted to be engaged by the vehicle whels, and a belt pulley upon said shaft.

1,470,809. YOKE FOR DRAFT GEARS. CHARLES A. CARSCADIN, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Oct. 17, 1921. Serial No. 508,304. 4 Claims. (Cl. 213—70.)



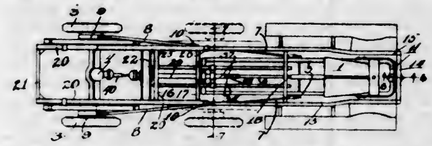
1. The combination with a draw bar, of a yoke for draft gears having a hooded forward end and channel guides in its sides within the yoke, said channel guides having shoulders at their forward ends and openings at the rear end of said guides, the hooded end being adapted to receive the draw bar butt when the draw bar butt is inserted into it by movement in a direction substantially parallel to a longitudinal plane through the guides, and a key adapted to engage the draw bar butt and to have its ends operatively engaged with said channels guides, the draw bar butt and yoke being adapted to permit insertion of the key into place without angular displacement of the draw bar butt relative to the yoke.

1,470,810. TUMBLER LOCK. HAROLD CHARLTON, Chicago, Ill. Filed Feb. 20, 1922. Serial No. 537,785. 3 Claims. (Cl. 70—46.)



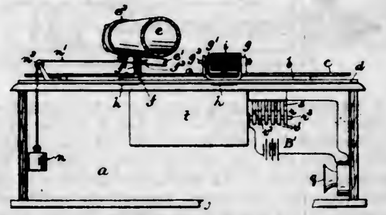
1. A lock tumbler comprising a relatively thick body member having a key opening extending transversely thereof and having a slot in one side thereof extending the full length of said body member to reduce the thickness of said body member to form a relatively thin key bearing portion at one side of said tumbler.

1,470,811. EXTENSIBLE FRAME FOR COMBINATION MOTOR VEHICLES. ALBERT EUGENE COOK, Evanston, and THOMAS VAN TUYL, Kankakee, Ill.; said Van Tuyl assignor to said Cook. Filed Nov. 10, 1919. Serial No. 336,807. 5 Claims. (Cl. 180—16.)



1. The combination with a vehicle chassis frame, of an auxiliary frame, driving wheels supporting the rear end of the auxiliary frame, a one point suspension bracket connecting the front end of the auxiliary frame with the front end of the chassis frame, front wheels supporting the front end of the chassis frame, and a one point suspension bracket connecting the rear end of the chassis frame with the auxiliary frame.

1,470,812. GRAMOPHONE. ARTHUR FREDERICK RICHMOND COTTON, London, England. Filed Jan. 29, 1920. Serial No. 354,901. 6 Claims. (Cl. 274—15.)

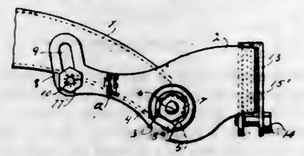


1. A gramophone controlling device comprising movable circuit control stops, a contact member upon the tone arm traveling between said stops in accordance with the motion of the reproducer for mechanically actuating the stops, electro-magnetic means for raising the reproducer from the record, switches controlled by said stops and connected in series with the circuit of said electro-magnetic means, an electro-magnet in said circuit for maintaining one of said switches closed after its mechanical operation and until released by the operation of the other switch, and means for returning the reproducer to an earlier point in the record during the restoring movement of said reproducer.

1,470,813. ARMOR PLATE AND PROCESS OF MAKING SAME. JOHN L. COX, Philadelphia, Pa. Filed Jan. 6, 1921. Serial No. 435,535. 13 Claims. (Cl. 148—12.)

1. The process of making armor plate which comprises carburizing one face of the plate, heating the whole plate to a low forging temperature and re-forging, heating the whole plate to above the critical temperature of the metal, then suddenly cooling, heating the whole plate to at least the critical temperature, but not to the extent of the first heating, then suddenly cooling, heating the whole plate (which has thus been grain-refined) to a temperature so far below the critical temperature that, upon subsequent sudden cooling, the plate, on fracture, will present substantially throughout a fibrous appearance without substantial crystalline material, and then suddenly cooling.

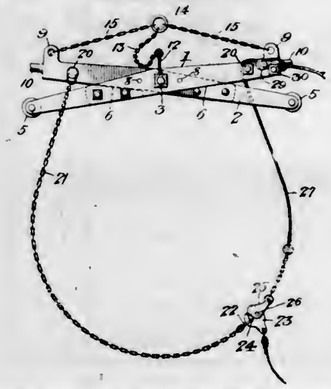
1,470,814. BUMPER SUPPORT FOR AUTOMOBILES. ALBERT P. CRELL, Grand Rapids, Mich. Filed Nov. 12, 1921. Serial No. 514,617. 4 Claims. (Cl. 293—55.)



1. In combination with the sills of an automobile frame, a short supporting plate and a long supporting plate each having one end formed at a right angle with the plate and each having an open ended slotted bearing therein, a bolt passed through the frame sill and through these slotted bearing openings to pivotally connect the plates with the sill of an automobile frame, the long plate extending backwardly beyond the point where it is secured to the sill and having an offset near the back end and having a verticaly inclined slot in the back end, a bolt adapted to engage the sill and to pass through the slot in the end of the longer plate to adjustably secure the plate to the sill, and a yoke mounted upon the right angled ends of the supporting plates and adapted to securely clamp the ends of a bumper bar therewith.

3. In combination with the elements covered in claim 1, the supporting plates having open slots adjacent to the main bearing points, chambered bearings adjacent to the inner ends of said slots, bolts and nuts for securing the plates to the ends of the sills, slotted washers adapted to enter the chambers over the chambered bearings and form openings for the passage of securing bolts, an arm on each washer adapted to extend outwardly through the open end of the slots, the free ends of said arms folded over upon themselves and adapted to bear against the side of the nut and form a nut lock therewith.

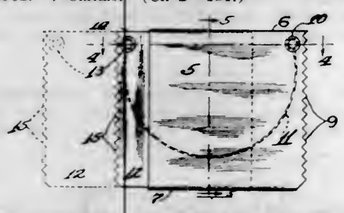
1,470,815. SLING. CHARLES CROZIER, Honolulu, Territory of Hawaii. Filed Apr. 17, 1922. Serial No. 553,475. 4 Claims. (Cl. 294—74.)



1. A sling comprising cross-bars pivoted together intermediate their ends, a flexible loop having its ends at-

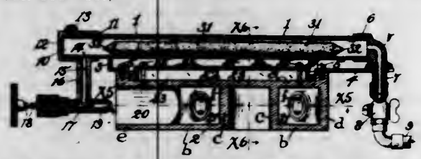
tached to the upper ends of the respective bars and its intermediate portion passing though confining guides on the lower ends of said bars, and suspending means connecting the uper ends of said bars.

1,470,816. POCKET PENCIL HOLDER. DAVID F. CURTIN, Chicago, Ill. Filed Aug. 30, 1920. Serial No. 406,962. 7 Claims. (Cl. 2—151.)



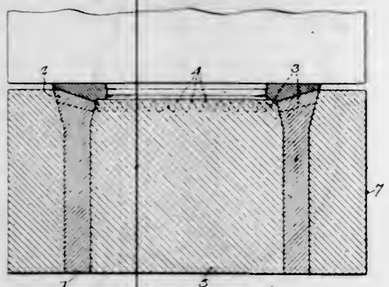
6. The combination with a pocket, of a pencil holder therein comprising a flat outer sleeve, teeth formed on one edge thereof, a flat inner sleeve slidably engaged in said flat outer sleeve, teeth formed on one edge of said inner sleeve, and resilient means enclosed by said sleeves to hold the same projected with respect to one another to tension the walls of the pocket.

1,470,817. MULTIPLE OIL-GAS GENERATOR AND DISTRIBUTOR. ANDREW DAHLENE, San Diego, Calif. Filed July 25, 1921. Serial No. 487,536. 10 Claims. (Cl. 158—59.)



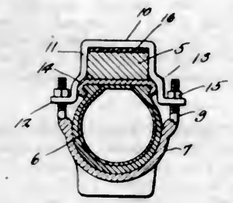
1. A device of the character set forth comprising a tube; a multiple distributor head arranged under said tube and having an annular chamber; a cap secured to said head and forming an auxiliary vapor chamber that is connected by an opening to the annular chamber of said head, and that has openings adjacent said tube; a liquid supply pipe connected to said tube; a nozzle connected to said tube and adapted to discharge vapor into said annular chamber; a needle valve for regulating the discharge of vapor from said nozzle; pipe connections from said multiple distributor head adapted to be connected to vapor burners; valves in said pipes; and an auxiliary heater attached to said multiple distributor head for the purpose specified.

1,470,818. GEAR-WHEEL FORGING DIES AND METHOD OF MAKING SAME. JOHN ECKERT, Milwaukee, Wis. Filed May 24, 1920. Serial No. 383,850. 6 Claims. (Cl. 76—107.)



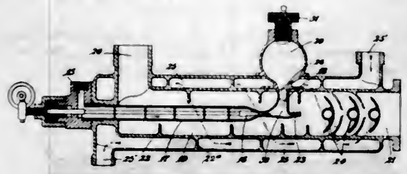
1. The method of making gear wheel forging dies consisting in cutting the end of a cylindrical blank along radial lines to form grooves and intervening projections adapted to serve as a pattern for the toothed portion of a gear wheel having laterally projecting teeth, heating said cylinder and shrinking the same upon a central cylindrical block conformed to the inner surface of the blank and adapted to close up the inner ends of said grooves, and subsequently shrinking a larger cylinder upon the outer surface of the grooved cylinder in a position to close up the outer ends of the grooves.

1,470,819. MUD LUG. HAROLD R. EDER, Pittston, Pa. Filed Sept. 12, 1922. Serial No. 587,776. 1 Claim. (Cl. 152—14.)



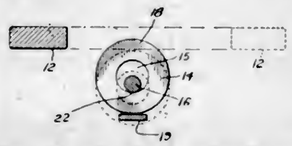
In a device of the character described, a body portion, said body portion having integral securing bolts disposed intermediate the ends of the body portion, a securing iron constructed to embrace the felly of a wheel, said securing iron having curved portions embracing the rim of a wheel and having right angled end portions formed with openings, said openings adapted to receive the securing bolts and means operating on the securing bolts for securing the body portion and securing iron together.

1,470,820. CARBURETOR FOR INTERNAL-COMBUSTION ENGINES. LEWIS THOMAS GODFREY-EVANS, West Norwood, London, England. Filed Feb. 9, 1921. Serial No. 443,646. 3 Claims. (Cl. 123—119.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A carbureter including a tubular body having a mixing passage, a fuel supply nozzle, and a pressure reservoir communicating with the nozzle and also in valved communication with the mixing passage whereby when the pressure is high in the mixing passage air will enter the reservoir and then escape through the nozzle when the pressure in the mixing passage drops thereby carrying the fuel with it.

1,470,821. PICKER CHECK. RALPH DI CRISTO, Natick, R. I., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Sept. 10, 1921, Serial No. 499,789. Renewed Aug. 27, 1923. 3 Claims. (Cl. 136—16.)



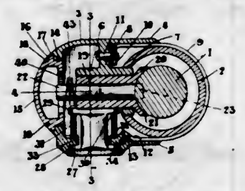
1. A picker check for looms comprising in combination a picker stick, a rotatable roll mounted on the lay intermediate the extremities of the throw of said stick, said roll having a portion normally extending into the path of travel of said stick and adapted to be engaged thereby to force the roll radially inwardly and also to rotate the roll in passing to check the motion of the stick in both directions.

1,470,822. RENEWABLE INSULATION FOR RAIL JOINTS. CLARKSON A. DISBROW, New Rochelle, N. Y., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed Sept. 12, 1922. Serial No. 587,790. 6 Claims. (Cl. 238—159.)



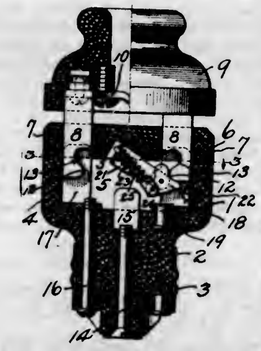
1. A renewable center insulation for rail joints comprising a pair of separate duplicate matching registering units of insulation each including a bar head section and end post section.

1,470,823. LOCKING DEVICE. JOHN J. FARRELL, Lawrence, Mass., assignor to A. M. Farrell, Philadelphia, Pa. Filed Feb. 1, 1922, Serial No. 533,334. Renewed July 13, 1923. 12 Claims. (Cl. 70—90.)



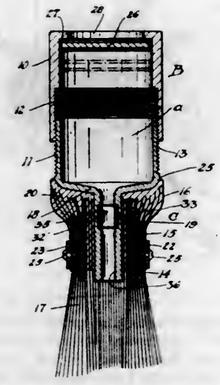
1. In a lock for a shaft having a recess therein for a locking pin and having a housing about it provided with an opening through it in line with the recess in the shaft, the combination with an outer tube having its inner end adapted to enter the opening in the housing, a floating tube movable within the outer tube having its inner end concaved to fit the periphery of the shaft, a locking pin movable within the floating tube, means for moving the forward end of the pin into and out of the recess in the shaft, and a casing carrying the outer tube and means for securing it to the housing.

1,470,824. ELECTRICAL CONNECTOR DEVICE. EDGAR H. FREEMAN, Trenton, N. J., assignor to E. H. Freeman Electric Company, a Corporation of New Jersey. Filed July 21, 1919. Serial No. 312,289. 4 Claims. (Cl. 200—51.)



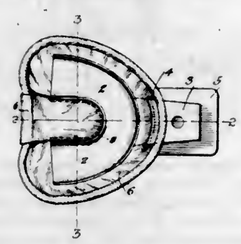
1. An electrical connector including a body having at one end a plug member provided with socket contacts and at its other end a receptacle portion carrying a center contact and side contacts respectively connecting with said socket contacts, a switch member mounted within the receptacle portion of the body and adapted to engage with said center contact, and a cap member carrying the line wire terminals and a pair of contact blades for engaging with said side contacts, and one of said blades having an actuating engagement with the switch member.

1,470,825. BRUSH. LEWIS FRITZ, Chicago, Ill. Filed June 17, 1922. Serial No. 569,001. 1 Claim. (Cl. 15—137.)



A shaving brush including a handle providing a reservoir and having an outlet tube extending at one end, a brush head including brush parts surrounding a portion of the outlet tube, means providing a hinged connection between said parts, said means including semicircular members hinged together and fixed to the brush parts, and locking means for the free ends of said semicircular members including an eccentrically mounted locking lever.

1,470,826. IMPRESSION AND CAST RETAINER. WILLIAM M. GAMBILL, Merkel, Tex. Filed Aug. 29, 1922. Serial No. 584,982. 2 Claims. (Cl. 32—6.)

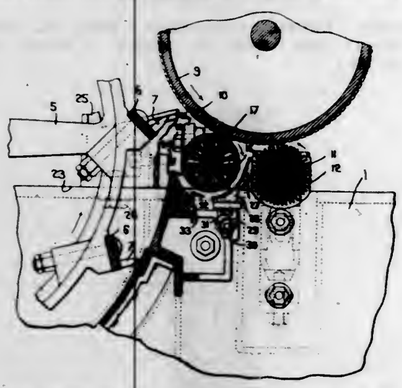


1. A cast retainer for dental purposes, of a depth to receive a dental impression tray, with the retainer having a handle, said cast retainer also having a slot through the upright wall adjacent to the handle to pass the handle of the impression tray, and a fabric sheet with a slot therethrough to pass the impression tray handle.

1,470,827. MACHINE FOR PICKING AND BURRING WOOL, ETC. OSCAR M. GODFREY, North Andover, Mass., assignor to Davis & Furber Machine Company, North Andover, Mass., a Corporation of Massachusetts. Filed Feb. 1, 1923. Serial No. 616,379. 10 Claims. (Cl. 19—84.)

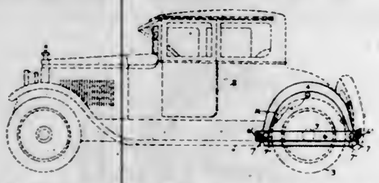
1. A machine for picking and burring wool, etc., comprising a rotary main beater cylinder; a rotary burring

cylinder rotating in the opposite direction to, peripherally adjacent, and acting to take the fibre from, the main cylinder; a cylindrical rotary brush mounted in the angle between the main beater and burring cylinders, peripherally adjacent, rotating at a slower speed than and in the same direction as, and acting to press the wool fibres into the toothed periphery of, the burring cylinder; a rotary burr guard mounted at the side of the brush opposite the main beater cylinder, rotating at a higher speed than and



in the opposite direction to, and peripherally adjacent, the burring cylinder; and a guard plate extending between the brush and the burr guard and beneath the brush, and so positioned that the burrs knocked off the burring cylinder by the burr guard are thrown thereby over the top of the guard plate and, if free from fibre, slide down the guard plate and drop out at the bottom and, if carrying fibre, are caught by the brush and either stripped or taken from the brush by the main beater cylinder and passed through the burring operation again.

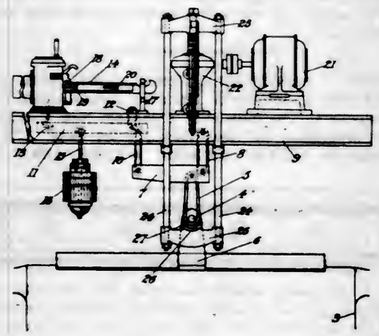
1,470,828. SIDE BUMPER FOR VEHICLES. JOHN W. GORMAN, East Syracuse, N. Y. Filed May 23, 1923. Serial No. 640,893. 6 Claims. (Cl. 293—57.)



1. A side bumper for vehicles, comprising a curved body extending lengthwise of the vehicle having socket members spaced to clear the wheel, L-shaped brackets disposed between the adjacent chassis member and wheel and having parts that aline with and telescopically receive said socket members, cushion means carried by said brackets for resiliently holding said body extended, an arch for partially supporting said brackets, and means for preventing the arch and the brackets from spreading.

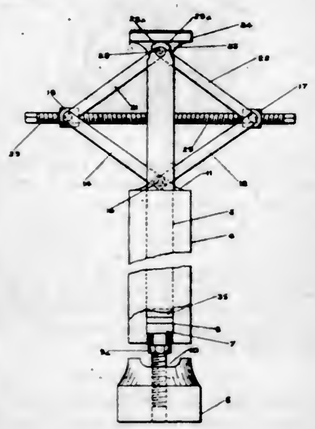
1,470,829. RESIDUE WEIGHER. ARTHUR STUART GILBERT, Birmingham, England, assignor to W. & T. Avery, Limited, Birmingham, England. Filed Nov. 30, 1920. Serial No. 427,359. 2 Claims. (Cl. 265—6.)

1. A residue weigher for use in combination with automatic scales, comprising in combination a steelyard, a poiseweight traversably mounted on said steelyard, a lever connected to said steelyard, a load receiver adapted for connexion to said lever, weights suspended from said lever to overbalance the steelyard against the resistance of the load receiver and the weights therein, a weight recording mechanism operable in conjunction with said steelyard



and poiseweight and means for connecting and disconnecting the load receiver from the levers connected to the steelyard.

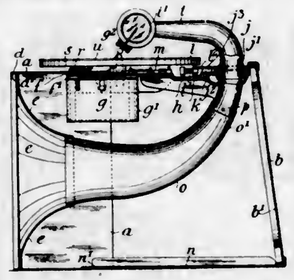
1,470,830. JACK. FRANK GRANT, Westfield, Mass. Filed Oct. 2, 1920. Serial No. 414,340. 2 Claims. (Cl. 254—126.)



1. A jack consisting of a standard having a vertical guideway thereon, a pair of plates slidable on the guideway, bearing provided on said standard at the head thereof, a head pivotally connecting the plates at their upper ends to each other adapted to engage the load, a right and left threaded screw, nuts mounted on said screw in spaced relation to each other to engage them respectively threaded thereon, a pair of links pivotally connected with one of the nuts and pivotally connected with the standard bearing, a pair of links pivotally connected with the other nut and pivotally connected with the standard bearing, a pair of links pivotally connected with the first nut and pivotally connected with the head, a second pair of nuts pivotally connected with the second nut and pivotally connected with the head.

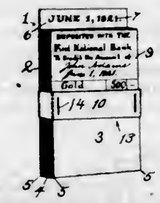
1,470,831. GRAMOPHONE. JOSHUA GREEN, Hove, England. Filed Nov. 24, 1920. Serial No. 426,213. 10 Claims. (Cl. 274—2.)

1. In a gramophone, the combination with the casing, provided with a tone arm support, of a tone arm, a universal joint therefor, comprising a member connected with the tone arm and a member pivotally connected with said tone arm support, whereby said tone arm and the mem-



bers of said universal joint may be turned upon said pivotal connection into operative and inoperative positions.

1,470,832. LOCK-FOLD EXPANDING INDEXING TICKET FILE. RUTHERFORD B. HARRIS, Ocean Park, Calif. Filed July 26, 1921. Serial No. 487,817. 8 Claims. (Cl. 129—16.7.)



1. A ticket file comprising a strip of flexible material formed with a back section and a front section and with an intermediate bendable section and adapted to enfold a stack of sheets to be filed; said back section being provided with slits and said front section being provided with elongated straps adapted to fold around the edges of the stack and around the edges of the back section and there to be inserted into said slits and adjustable in the slits for the purpose of accommodating sheet stacks of different thicknesses and to form fasteners for holding the folders on the stack.

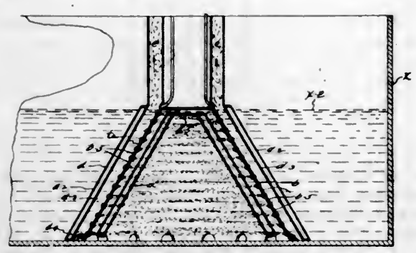
1,470,833. WINDOW SHADE AND CURTAIN SUPPORT. HIRAM D. HARRIS, Norcross, Ga. Filed Apr. 25, 1922. Serial No. 556,551. 1 Claim. (Cl. 156—23.)



A device of the class described comprising a bar of a length corresponding substantially to the width of the window in connection with which it is to be used, two longitudinally spaced L-shaped brackets mounted on said bar, one arm of each bracket constituting a substantially rectangular attaching plate and the other apertured to receive a roller pintle, said attaching plate being of a width corresponding to that of said bar and overlying the bar, said plate having apertures at its corners to receive screws for connecting it to the bar, and upturned

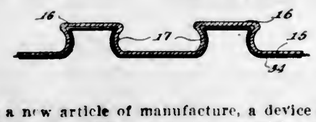
longitudinally spaced alined hooks carried by said plate, said plate and bar having registering screw receiving apertures to connect the bar to a window frame.

1,470,834. ELECTRIC HEATER. ALBERT E. HASSELBACH, Detroit, Mich. Filed Dec. 30, 1920. Serial No. 434,002. 8 Claims. (Cl. 219—41.)



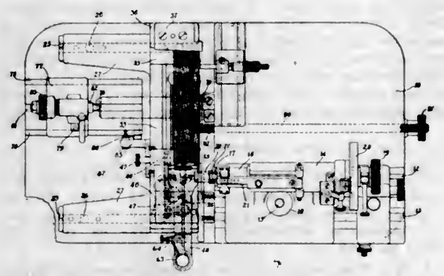
1. A heating element consisting of two walls of sheet metal conducting wires interposed between said walls, the metal of said walls being welded together between said wires.

1,470,835. ARTICLE FOR PRODUCING KEYS IN CEMENTWORK. HARLOW H. HATHAWAY, El Paso, Tex. Filed Feb. 4, 1920. Serial No. 356,171. 2 Claims. (Cl. 25—131.)



1. As a new article of manufacture, a device for forming keys in cementitious material comprising a flexible, non-article adhering body, a plurality of flexible and compressible keys formed in the body, and a reinforcing member embedded in the body, said member being flexible, whereby the same can readily conform to the various configurations of said body.

1,470,836. LEAD-MEASURING MACHINE FOR GAUGES. REUBEN HILL, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 1, 1920. Serial No. 407,396. 13 Claims. (Cl. 33—199.)



1. A lead measuring device for tapered screw thread ganges comprising in combination, a base, a support on said base for said gauge, a carriage, an indicator on said carriage adapted to contact with the gauge being tested, means to position said carriage in accordance with differ-

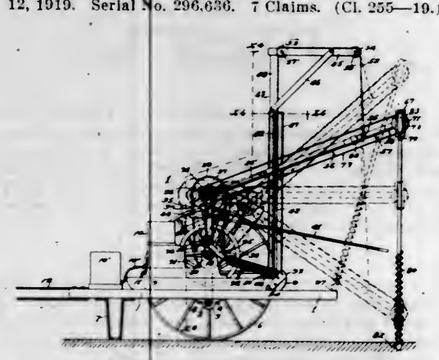
ences in diameter of the parts of the gauge, and means to accurately determine movements of said carriage parallel to the axis of the gauge.

1,470,837. COMPOSITION SHINGLE. WILLIAM J. HOFSTATTER, Toledo, Ohio, assignor of one-half to Harry E. Resener, Toledo, Ohio. Filed Apr. 27, 1922. Serial No. 556,825. 2 Claims. (Cl. 108—8.)



1. In a roofing, a plurality of shingles having inserts nonintegral with the body portion of each shingle, and having a thickness substantially the same as that of the shingle, and a shape substantially the same as that formed between edges of adjoining shingles of the next succeeding lower row of shingles and the lowermost edge of the shingle to which the insert is attached, means for securing the insert to the body of the shingle and a strip secured to the underside of the insert and to the lower portion of the shingle and extending laterally beyond the edges of the insert to hold the shingle in position relative to the adjoining shingles.

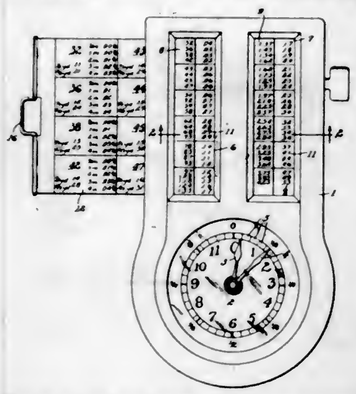
1,470,838. ADJUSTABLE POWER EARTH AUGER. LAWRENCE HOLMES, Los Angeles, Calif. Filed May 12, 1919. Serial No. 296,636. 7 Claims. (Cl. 255—19.)



1. In an adjustable power auger, a portable frame, an engine on said frame; a hole-forming apparatus operatively connected with said engine and said frame; an auger having its shank end pivotally connected with said apparatus; a counterbalance flexibly connected with said shank end for normally opposing the downward movement of said auger; and manual means pivotally connected with said shank end for moving the auger downwardly.

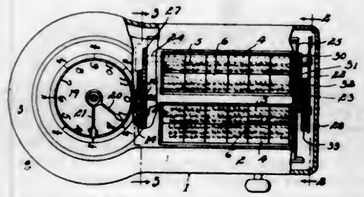
1,470,839. AUXILIARY CHART COMPUTING MACHINE. GREENE CARLTON HOSCH, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation of Delaware. Filed Mar. 24, 1921. Serial No. 455,110. 2 Claims. (Cl. 235—86.)

1. In a measuring and cost computing machine having length indicating means and a chart driven in unison with the indicating means and bearing computed figures corresponding to a unit of measure and relatively large aliquot fractions thereof at different prices or rates for the unit of measure, an interpolating chart associated with the machine and constructed to be extended at the will of the operator, said interpolating chart bearing computed figures interpolated with respect to the com-



puted figures of the first named chart and corresponding to relatively small divisions of the indicating scale at the same prices or rates per unit of measure.

1,470,840. INDICATING MEANS FOR MEASURING MACHINES. GREENE CARLTON HOSCH, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation of Delaware. Filed July 18, 1921. Serial No. 485,464. 6 Claims. (Cl. 33—133.)

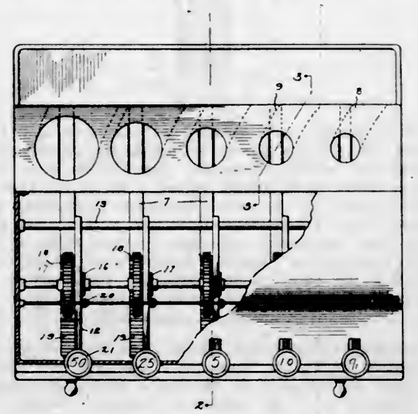


1. In a measuring and cost computing machine to be used by salesmen in selling goods across a counter, the combination of a casing, indicating mechanism including chart rollers rotatably mounted in the upper portion of the casing, charts wound upon the chart rollers and bearing computed numbers representing charges corresponding to the length of the goods measured, said numbers being oriented so as to be read by the salesmen standing adjacent one end of the casing, a shaft extending longitudinally of the machine, said casing having a wall at the other end thereof with sight-openings therein, indicating members behind said wall, and means for driving the same by said shaft in unison with said rollers, said indicating members carrying numbers adapted to register with the sight-openings to indicate the length measured, to the purchaser standing at the end of the machine opposite to the salesman.

6. In a measuring and cost computing machine to be used by salesmen in selling goods across a counter, the combination of a casing, a measuring roller, salesman's indicating mechanism driven by said roller and including a chart supported in the upper portion of the casing and bearing computed numbers indicating charges corresponding to the length of the goods measured, said numbers being oriented so as to be read by the salesman standing adjacent one end of the casing, a frame within the casing including a frame plate at the end of the casing remote from the salesman's position and a frame plate nearer to the other end of the machine, a shaft supported in the frame plates, means for driving said shaft in unison with the chart, and a purchaser's indicator adjacent the first

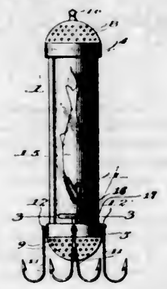
named frame plate driven by said shaft to indicate the length measured to the purchaser standing at the end of the machine opposite to the salesman.

1,470,841. MONEY-CHANGING MACHINE. SAMUEL B. HUNTER, Tacoma, Wash. Filed Apr. 12, 1922. Serial No. 551,879. 2 Claims. (Cl. 133—5.)



1. A change making apparatus, including a coin receptacle, a coin slide operatively positioned to eject the bottom coin from said receptacle, means for operating the slide, said slide having a laterally inclined coin receiving surface, and a coin chute positioned beyond the receptacle and having a wall formed to direct the coin from said slide into the chute.

1,470,842. FISH LURE. HARRY TAYLOR HYAMS, De Kalb, Tex. Filed Dec. 31, 1921. Serial No. 526,239. 4 Claims. (Cl. 43—41.)



1. A fish lure comprising a longitudinal body made of a transparent material and being open at its opposite ends, caps threadedly engaging the body at its opposite ends and being perforated, one of said caps being formed for connection with a fish line, a ring encircling the body at an appreciable distance from the end of said cap, links connecting the ring with the said cap, and a plurality of hooks carried by the said ring.

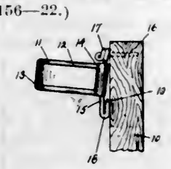
1,470,843. HOLDING DEVICE. BENGT A. JOHNSON, Duluth, Minn. Filed Mar. 11, 1922. Serial No. 542,864. 1 Claim. (Cl. 24—194.)

A strap buckle of the character described being substantially rectangular in plan view having a straight horizontal bottom under a portion thereof, and an upper wall humped centrally forming two downwardly inclined inner surfaces one converging towards the outer end of the bottom, and the other serving to hold the overlapping ends of the strap close together, a slidable jaw having an upper surface parallel with one of the inclined upper surfaces of the buckle, means for manually operating the jaw longitudinally of and in constant



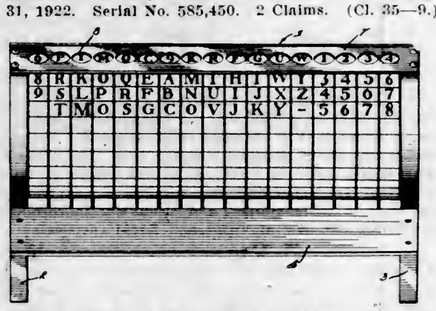
engagement with the bottom of the buckle whereby to optionally impinge the free end of the strap when drawn through the buckle, and a bar transverse the open bottom at the other end of the buckle for permanent attachment to the opposite end of the strap.

1,470,844. CURTAIN ROD. OTTO JOHNSON, Jamestown, N. Y. Filed Feb. 17, 1923. Serial No. 619,728. 3 Claims. (Cl. 156—22.)



2. The combination with a curtain rod having loops at each end of supporting hooks therefor, each of said hooks having its lower end bent back upon itself to form a pocket, the tip of said hook being adjacent the casement to which the hook is secured and forming the inner wall of said pocket and the loops of said rod being of such dimensions that they can pass over the doubled lower end of said hooks and so placed in said pockets.

1,470,845. EDUCATIONAL APPLIANCE. JOHAN HILDING JOHNSON, Salt Lake City, Utah. Filed Aug. 31, 1922. Serial No. 585,450. 2 Claims. (Cl. 35—9.)

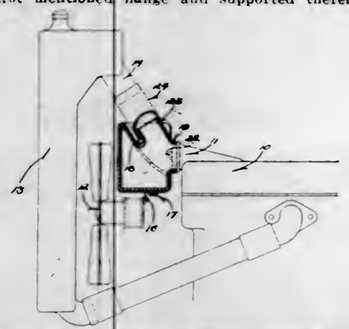


1. In a device of the class described, a supporting frame, a plurality of rotatably mounted wheel members having indicia on their perimeters, spacing plates arranged between said members, for permitting the individual members to be rotated without affecting the others, said plates having apertured ears extending beyond the perimeters of the rotatable members, and a rod extending through said ears to hold said plates against turning.

1,470,846. RADIATOR CIRCULATING SYSTEM. CARL M. JOSTED, Milwaukee, Wis. Filed Feb. 4, 1922. Serial No. 534,098. 2 Claims. (Cl. 123—174.)

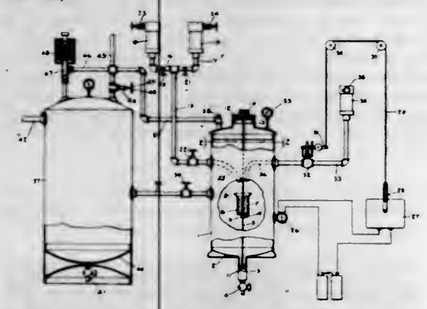
1. In an automobile, the combination of an internal combustion engine having a water jacket provided with a forward flange, a fan located in front of and spaced from said engine, a radiator located in front of said fan and having a rearwardly and downwardly extending inlet, and an auxiliary reservoir comprising a rectangular tank located between said engine and fan and

having an inlet provided with a rear flange bolted to said first mentioned flange and supported thereby and



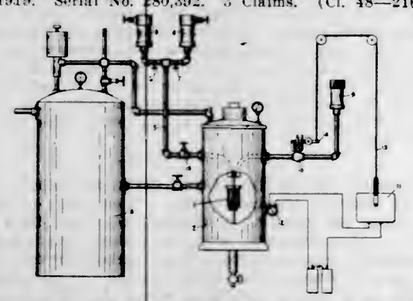
having an upwardly and forwardly extending outlet aligning with the inlet of said radiator and connected therewith.

1,470,847. GAS PRODUCING AND COOLING DEVICE. WALTER E. KARNS, Indianapolis, Ind., assignor of one-eighth to M. A. Wallace, Indianapolis, Ind. Filed Mar. 1, 1919. Serial No. 280,000. 10 Claims. (Cl. 48—4.)



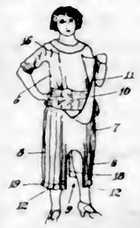
1. In a combined gas producing and cooling device, a mixing chamber, a container for chemicals in said chamber a water tank a chemical tank, means for conveying water and liquid chemical together from said tanks and discharging their mixture on to the chemical in the container for expanding and forming a gas from the chemical in the container, and means for independently regulating the flow of water and liquid chemicals.

1,470,848. PROCESS OF PRODUCING GAS. WALTER E. KARNS, Cincinnati, Ohio, assignor of one-eighth to M. A. Wallace, Indianapolis, Ind. Filed Mar. 3, 1919. Serial No. 280,392. 3 Claims. (Cl. 48—216.)



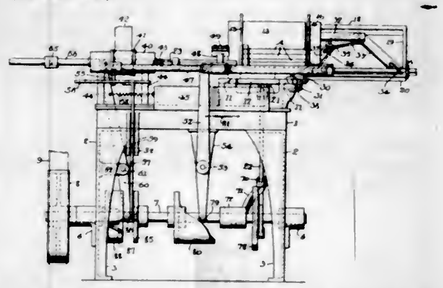
1. The process of producing gas, comprising the mixture of water and alcohol with a mixture of carbide and sodium bicarbonate.

1,470,849. CONVERTIBLE GARMENT. BESSIE KLAPPERT, Whitestone Landing, N. Y. Filed July 20, 1923. Serial No. 652,701. 4 Claims. (Cl. 2—144.)



2. A skirt having openings in the front and rear with spaced edges leaving a side portion on each side, each side portion having an elastic lower edge just long enough to fit snugly around a leg at the knee, a front panel having edges detachably connecting the front edges of the side portions, and a rear panel having edges detachably connecting the rear edges of the side portions, and fastening devices for detachably connecting the edges of the respective side portions to form bloomers when said panels are disconnected.

1,470,850. AUTOMATIC SHELLACKING MACHINE. JAMES F. LARGY, Barton, Vt., assignor to Carl P. Ford and Clarence H. Willard, a Partnership, doing business as J. W. Murkland Company, Barton, Vt. Filed May 18, 1922. Serial No. 562,010. 16 Claims. (Cl. 91—37.)



1. A shellacking machine comprising a magazine for bobbins, means for feeding bobbins one by one from the magazine on to a spindle, means for rotating said spindle, means for causing a brush to travel back and forth over the rotating bobbin, and means for removing the shellacked bobbin from said spindle.

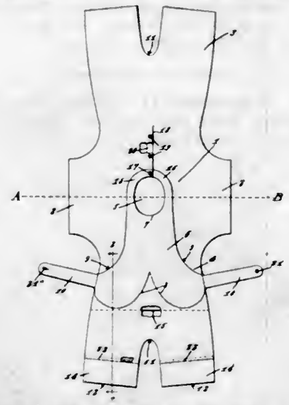
3. A shellacking machine comprising a magazine for bobbins, a spindle, spring actuated means for moving the bobbins one at a time on to said spindle, a latch for restraining the moving means, and automatic means for releasing the latch.

7. A shellacking machine comprising a magazine for bobbins, means permitting an adjustment in the size of the magazine, a rotating spindle, means for varying the position thereof, means for feeding a bobbin from the magazine to the spindle, means for feeding a brush over the surface of a bobbin on the spindle, and means for adjusting the degree of travel of the brush.

1,470,851. GARMENT. JESSIE B. LAWRENCE, La Crosse, Wis. Filed May 31, 1921. Serial No. 473,615. 4 Claims. (Cl. 2—54.)

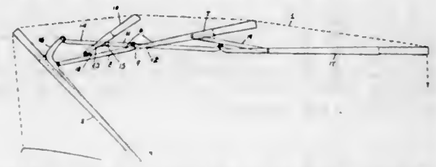
1. A garment of the class described, comprising a body having oppositely prolonged arm-forming tongues, and provided with oppositely prolonged extensions disposed approximately at right angles to the tongues, the body having a neck-opening; a front reinforcement applied to the body and one extension and having a neck-opening

registering with the neck opening of the body; and stitching uniting the reinforcement with said extension



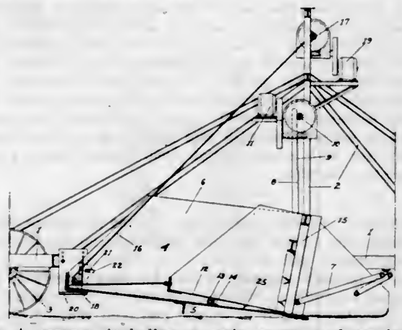
and forming a pocket between said extension on the one hand and the reinforcement on the other hand.

1,470,852. TOP FOR VEHICLES AND THE LIKE. FRED K. LEWIS, Ashtabula, Ohio. Filed May 7, 1919. Serial No. 295,404. 5 Claims. (Cl. 296—116.)



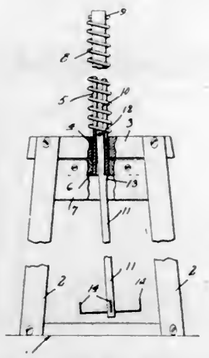
1. In a top for vehicles and the like, the combination of a suitable standard; a two-part articulated outrigger bow having its rear portion pivotally attached to said standard; a supplemental bow pivotally attached to such rear portion; and a second articulated outrigger bow having its rear portion disposed to intersect the forward portion of said first outrigger bow and being pivotally attached thereto at such point of intersection, such rear portion of said second outrigger bow comprising two pivotally interconnected parts, one such part being pivotally attached to said standard above the point of attachment of said first outrigger bow thereto, and the other such part being pivotally connected with said supplemental bow.

1,470,853. SCRAPER. ROBERT G. LE TOURNEAU, Stockton, Calif. Filed Sept. 27, 1922. Serial No. 590,755. 14 Claims. (Cl. 37—126.)



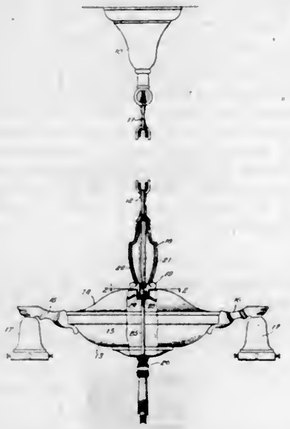
1. A scraper including a main scoop, and an inner scoop whose forward edge is normally adjacent the forward edge of the main scoop slidably mounted within the latter and adapted to be drawn toward the rear of the main scoop from said forward position.

1,470,854. RAT TRAP. MARION LUTHER LIVELY, Atlanta, Ga. Filed Apr. 10, 1923. Serial No. 631,204. 3 Claims. (Cl. 43—79.)



3. In a trap of the class described, a supporting base, standards rising therefrom, a top mounted in said standards and centrally apertured, a depending trigger pivotally mounted in said aperture and having bait carrying fingers at its lower end, a plunger mounted to reciprocate in said structure and having a tubular rod encircling said trigger rod, a coiled spring encircling said plunger rod above said top and connected at one end to the rod and at the other end to the top whereby the spring is placed under tension elevating the plunger, the trigger having a shoulder to engage the plunger to releasably hold it in elevated position, said trigger being movable laterally to release the plunger.

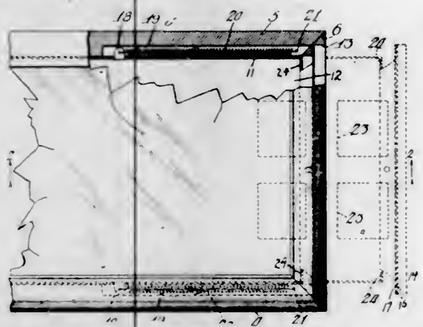
1,470,855. CHANDELIER. GEORGE LUDWIG, Chicago, Ill., assignor to R. Williamson & Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 5, 1921. Serial No. 489,992. 3 Claims. (Cl. 240—78.)



1. A chandelier comprising a body having an opening therein, a one-piece loop seated in said opening, shoulders on the loop engaging the top of the body to space the lower end of the loop within the body so that the lower

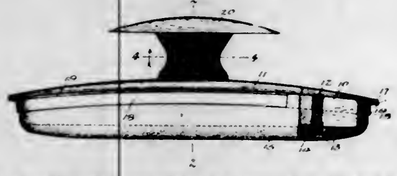
end of the opening between the sides of the loop will be located within the body below the top thereof to permit distribution of the conductor wires within the body, and means for securing the loop to the body.

1,470,856. CARD-DISPLAY FRAME. BERNHARD LUNDBERG, Chicago, Ill. Filed Jan. 12, 1922. Serial No. 528,624. 8 Claims. (Cl. 40—152.)



1. A display device comprising a frame; a picture tray slidably mounted in the frame; ears on opposite sides of the tray; springs connected with the ears and frame tending to move said tray in one direction; and a lock holding the tray against the influence of said springs.

1,470,857. NAIL BUFFER. JOSEPH LUPO, Jr., New York, N. Y. Filed Oct. 30, 1922. Serial No. 597,875. 4 Claims. (Cl. 132—78.)



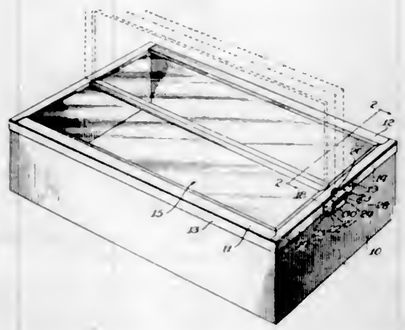
4. A nail buffer comprising an integral body and backing, said backing being of a larger size than the body to provide a marginal shoulder at the upper end of the body, yieldable padding completely encasing said body, a permanent covering for said padding, a removable polishing material stretched over the permanent covering, means for embracing and retaining the polishing material in covering relation over the permanent covering and padded body, said means comprising a substantially annular member having a flange at its upper end which bears against the marginal shoulder of the buffer, a handle carried by the backing, and a casing of yieldable material embracing said handle.

1,470,858. LOCK STRUCTURE. MAXWELL C. MAXWELL, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed June 2, 1922. Serial No. 565,303. 4 Claims. (Cl. 70—46.)



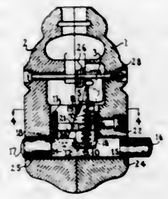
1. In lock securing means of the character described, the combination with a lock casing, of a sleeve or bushing having fingers provided with laterally projecting wood-engaging means to engage the wall portion of a bore in which said sleeve or bushing may be located, said sleeve or bushing having an internal threaded portion, and a set screw to pass through said sleeve or bushing and engage the lock casing.

1,470,859. FOOD-DISPLAY COVER. MYER METZGER, Chicago, Ill. Filed Sept. 21, 1922. Serial No. 589,608. 12 Claims. (Cl. 217—58.)



1. In combination, an open receptacle, a cover therefor, circumferential flanges on the cover for engaging over the edges of the receptacle, said cover embodying a hinged section, and means embodying a pivotally mounted clamping device connected with the cover for securing the cover to the receptacle.

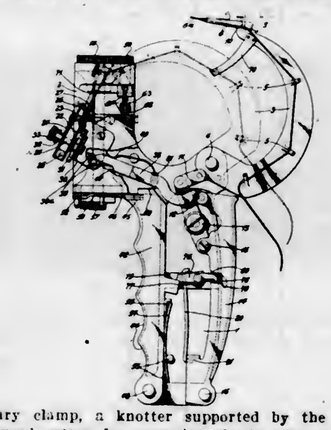
1,470,860. ELECTRIC SWITCH. GEORGE J. MEUER, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 1, 1921. Serial No. 457,803. 8 Claims. (Cl. 200—72.)



1. In an electric switch, in combination, a frame, a contactor, an operating member for said contactor, said frame and contactor having engaging parts providing an open pivotal bearing for the latter, and said frame and operating member having engaging parts providing an open slide bearing for the latter and a spring connecting said contactor and said operating member to retain both in engagement with said frame and to actuate said contactor with a snap action upon reciprocation of said operating member.

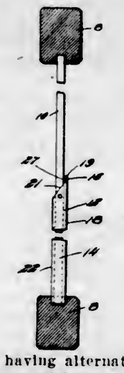
1,470,861. TYING MACHINE. HENRY C. MEYER, Black Jack, Mo. Filed Mar. 13, 1922. Serial No. 543,245. 16 Claims. (Cl. 289—8.)

1. A portable machine of the character described, comprising a handle, a stationary clamp in connection with the handle arranged to engage and hold the end portion of a piece of twine, an arm pivoted to the handle, a clamp in connection with the arm, means in connection with the handle for operating said arm and the clamp in connection therewith to insert the end of the twine in the



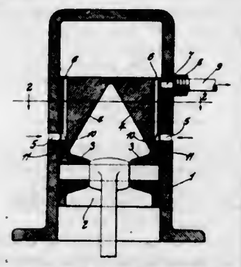
stationary clamp, a knotter supported by the handle, and manual means for operating the knotter to tie the twine.

1,470,862. LOOM-HEDDLE FRAME. WILFRID J. MINVILLE, Manville, R. I. Filed Dec. 14, 1922. Serial No. 606,945. 2 Claims. (Cl. 139—53.)



1. A heddle-frame having alternate dents and needles, each of said needles comprising a body provided with an inclined shoulder, and with an eye adjacent said shoulder, and a vertical finger upon the body above the shoulder in advance of the dents as and for the purpose set forth.

1,470,863. PUMP. CLYDE V. MORSE, Galesburg, Ill. Filed May 20, 1922. Serial No. 562,332. 5 Claims. (Cl. 230—27.)



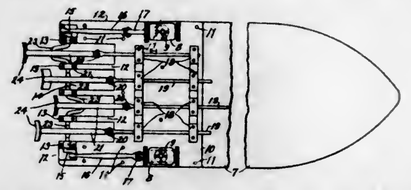
1. A pump, comprising a cylinder, a reciprocating piston mounted in the cylinder, inlet ports through the wall of the cylinder, an L-shaped passage in the piston extending from the head of the piston downwardly and radially to the periphery of the piston, and an exhaust port spaced from the inlet ports so that the passage in the piston will register with the exhaust port at the end of the up-stroke of the piston.

1,470,864. BRAKE-BAND SILENCING PAD. FRED C. MORRIS, San Francisco, Calif., assignor of one-half to Adam A. Rector, San Francisco, Calif. Filed Aug. 9, 1921. Serial No. 490,900. 2 Claims. (Cl. 188—249.)



1. A brake band silencing pad, comprising a pad of resilient material and a metal strip to which said pad is secured and which metal strip is used for the purpose of securing the pad to the brake band.

1,470,865. BOAT-PROPELLING DEVICE. ANDREW J. NELSON and ELMER M. NELSON, St. Paul, Minn. Filed Dec. 6, 1922. Serial No. 605,183. 5 Claims. (Cl. 170—139.)



1. The combination with a boat or vessel and suitable frame work thereon of a multiple crank shaft journaled across one end of the boat, a series of normally vertically disposed paddles, a series of paddle bars each with one end fixed to one of the paddles and having its body journaled to one of the cranks of the shaft, a series of rods guided to slide horizontally and having each one end pivotally connected to one of the paddle bars, and means for rotating the crank shaft.

1,470,866. ADVERTISING FRAME. FRANK NEWHOUSE, Denver, Colo. Filed Jan. 2, 1923. Serial No. 610,371. 1 Claim. (Cl. 40—156.)

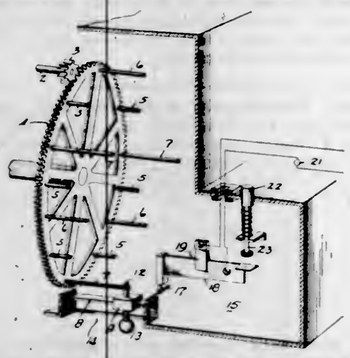


A frame adapted for use as a means for displaying posters comprising, in combination, a frame, a back secured to one side thereof, a plurality of spring clips secured at one end to the front side of the frame, having the other end resting on said back, and a spring clip secured to the front side of and at each corner of said frame, said clips having one end resting on the back, each clip having a point and a hole in said back adapted to receive said point.

1,470,867. TIME-CONTROLLED ELECTRIC SWITCH. JOHN F. NEWSOM, Palo Alto, Calif. Filed Sept. 28, 1921. Serial No. 503,872. 7 Claims. (Cl. 200—35.)

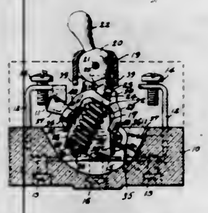
4. In a time switch, a rotatable wheel, a plurality of projections of varying length carried by the wheel, an

electric switch, and means for operating the switch, said means being adapted to be engaged by the projections,



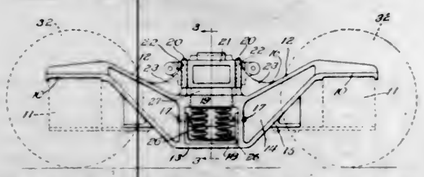
and being adjustable relatively to the projections whereby the frequency of operation of the switch may be varied.

1,470,868. SWITCH. WILLIAM J. NEWTON, Bridgeport, Conn., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 2, 1922. Serial No. 540,395. 4 Claims. (Cl. 200—67.)



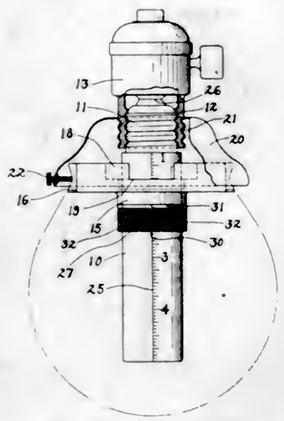
1. In a switch, a swinging contact member, a swinging actuating member, an operating member, a toggle arm connected to the actuating member and the operating member, said actuating member and arm comprising a toggle, a spring between the toggle arm and actuating member, co-operating engaging parts on the contact and actuating members, said spring acting to swing the actuating and contact members after the toggle has been moved through its neutral position, and means operated by the operating means for positively shifting the contact member as the toggle passes through its neutral position.

1,470,869. CAR TRUCK. ALBERT E. NOBLE, Anniston, Ala. Filed Oct. 10, 1921. Serial No. 506,756. 5 Claims. (Cl. 105—197.)



1. A truck side frame comprising a casting having at its center a spring pocket which is open and unobstructed from the inner side to the outer side of the frame to permit the introduction and removal of a spring, and columns rising from the top of the pocket, the space between the upper portions of the columns being open and unobstructed to permit of the downward insertion and upward removal of a truck bolster, the top of the pocket being provided with an opening for the reception of a spring cap or plunger to support the truck bolster.

1,470,870. ILLUMINATING FIXTURE GAUGE. HENRY D'OLIER, Jr., Bridgeport, Conn. Filed Dec. 12, 1921. Serial No. 521,824. 6 Claims. (Cl. 33—180.)



1. A lamp fixture gauge comprising in combination, a bar adapted at one end to be fitted to a lamp socket, there being a scale extending along one side of said bar, and a member slidable along said bar and having a part conforming in shape to the heel portion of an illuminating fixture whereby the adjustment of a fixture relative to a lamp socket may readily be determined.

1,470,871. CROSSCUT SAW. LENNART OSTERDAHL and HARRY GLENMORE COWLING, Fairfax, Wash. Filed Dec. 1, 1921. Serial No. 519,236. 1 Claim. (Cl. 143—133.)



A felling cross-cut saw including a blade provided with separate groups of teeth, each group including a set of cutter teeth sharpened on opposite sides alternately, rakers interposed between those groups of teeth adjacent the center of the saw blade each having diverging raker points, each of said rakers being separated from the two adjoining groups of cutter teeth by saw dust spaces extending into the blade beyond the inner ends of the cutter teeth, the remaining groups of cutter teeth each having a raker combined therewith at that end of the group remote from the center of the blade, each of the last named rakers being spaced from the next adjoining group of cutter teeth by a saw dust space and having a raker point and a rounded point, the rounded point being spaced inwardly from the line of cut of the raker point and being positioned at that side of the raker nearest the center of the blade.

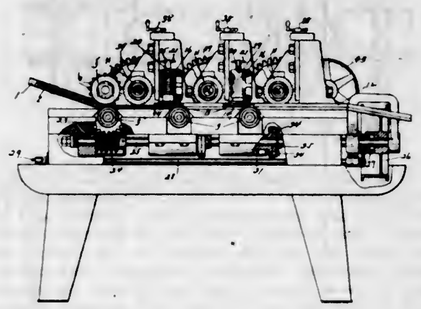
1,470,872. EDUCATIONAL GAME APPLIANCE. ELIJAH A. OVENSHIRE, Los Angeles, Calif., assignor, by mesne assignments, of one-half to Orson A. Lovejoy, Los Angeles, Calif. Filed Feb. 21, 1922. Serial No. 538,155. 11 Claims. (Cl. 46—61.)

1. In an educational game appliance comprising a level field, and a wall enclosing said field; movable pins adapted to be arranged on said field, and adapted to have a counting value when knocked down; and posts arranged adjacent said pins for guarding them; a traveling top having a stem the lower end of which is inclined, said top being



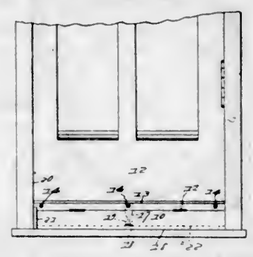
adapted to spin on said stem and off center to its vertical axis so that it will travel over said field to knock down said pins.

1,470,873. MILLING MACHINE FOR CONTINUOUS MILLING. JAMES F. PATTON and JOHN E. MCALLISTER, Cleveland, Ohio; said McAllister assignor to said Patton. Filed Apr. 30, 1920. Serial No. 377,933. 24 Claims. (Cl. 10—72.)



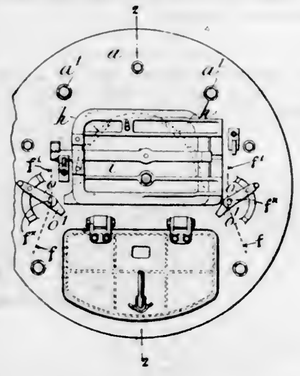
1. A bed having a channel comprising a plurality of communicating sections extending in a substantially straight line, means for forcing nuts through the channel, means for cutting the nuts in each section, and means for rearranging the nuts as they pass from one section to the next.

1,470,874. WEATHER STRIP FOR DOORS. ALBERT O. PETERSEN, Slater, Wyo. Filed May 12, 1922. Serial No. 560,398. 1 Claim. (Cl. 20—67.)



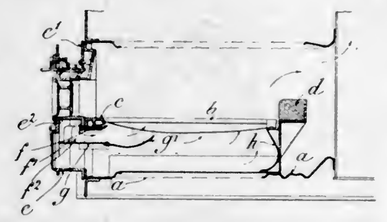
Means for weather-proofing a closure structure, having a movable closure member, a sill, and an upright frame member, said means comprising a bar normally carried by said movable member, a strip carried by said bar, resilient means for elevating said strip to clear said sill, and means normally carried by said upright member for depressing said strip when the movable member is closed, said resilient elevating means consisting of a spring arm disposed beneath the strip and provided with a terminally headed shank, and a keeper mounted on the strip on the underface thereof and disposed in straddling relation with the shank for engagement by the head to limit the upward movement of the free edge of the strip.

1,470,875. FURNACE FRONT. JOHN REID, London, England. Filed June 6, 1921. Serial No. 475,385. 10 Claims. (Cl. 110—172.)



1. A furnace front comprising front and back plates, intermediate ashpit flare, fuel passage casing, air casing thereover, a removable sill, openings between the air casing sides and the flare, pivoted valves controlling said openings, each of which valves is common to the air space between the sill and the flare and the air space within the air casing, outwardly turned extensions on the fuel passage casing projecting towards the valve pivots and means for setting said valves so as to open said air spaces to the air supply.

1,470,876. FURNACE. JOHN REID, London, England. Filed Jan. 30, 1923. Serial No. 615,897. 5 Claims. (Cl. 110—72.)



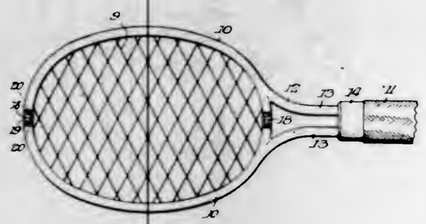
1. In a steam boiler furnace having a hollow front, grate and ash-pit, an air directing device comprising a casting with longitudinal division plates and a floor plate adjustable with respect to said casting and removably secured in said hollow front so as to extend inwardly from the front thereof into and partially through the ash-pit opening in the back thereof, thus dividing the space between the grate and the bottom of the ash-pit, substantially as described.

1,470,877. STRIKING PLATE AND COUPLER CARRIER FOR RAILWAY CARS. GEORGE W. RINK, Cranford, N. J., assignor to Flory Carry Iron Company, St. Louis, Mo., a Corporation of Delaware. Filed Aug. 8, 1922. Serial No. 580,534. 3 Claims. (Cl. 213—60.)



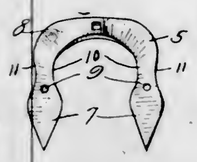
1. A coupler carry iron comprising a wear plate and a body of different metal cast about said wear plate to retain the latter in position.

1,470,878. TENNIS RACKET. ROY H. ROBINSON, Chicago, Ill. Filed Aug. 28, 1922. Serial No. 584,619. 13 Claims. (Cl. 46—24.)



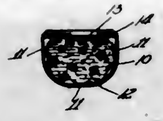
9. A tennis racket comprising a substantially oval-shaped frame divided transversely at opposite points, adjusting elements located at each of the points of division, a handle connected to said frame, and stringing woven through said frame.

1,470,879. DOUBLE PLOW. JOSEPH SCOTT ROGERS, Greenville, Ala., assignor, by mesne assignments, of one-half to Florence D. Metcalf, Johnson City, Tenn. Filed Apr. 2, 1921. Serial No. 458,057. Renewed Mar. 12, 1923. 1 Claim. (Cl. 97—206.)



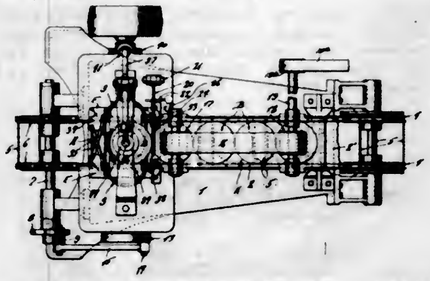
A duplex plowshare consisting of a U-shaped metallic member formed of a single piece of metal and including a cross-head and leg members terminating in pointed shovel portions, the cross-head being concavo-convex in its longitudinal direction and being inclined transversely from its rear edge downwardly towards its front edge, the ends of the cross-head being lower than the central portion of the cross-head and merging into the leg members, and each of said shovel portions being concavo-convex in its longitudinal direction and inclined transversely from its inner edge downwardly towards its outer edge.

1,470,880. TOBACCO MOISTENER. ALFRED B. ROSEBOOM, Chicago, Ill. Filed May 13, 1922. Serial No. 560,528. 2 Claims. (Cl. 131—30.)



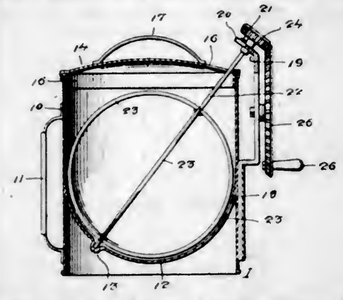
1. In a tobacco moistener, the combination of a small compact casing provided with a plurality of openings, a body of absorbent material within the casing and a plunger plate held in position against said absorbent material by an integral, resilient flange on said casing.

1,470,881. CAPPING MACHINE. CLARENCE E. RUSSELL, Kirkwood, Mo., assignor, by mesne assignments, to The Corno Mills Company, East St. Louis, Ill., a Corporation of Illinois. Filed Oct. 15 1920. Serial No. 417,211. 10 Claims. (Cl. 93—55.)



1. In a carton capping machine, gripping members adapted to embrace the cap and carton, a cap support whereby the cap is held between said gripping members, said cap support being movable between the cap and carton, means for closing said gripping members to grip the cap and carton, means for transmitting movement to said cap support to remove the same from the cap while the latter is held by said gripping members, said gripping members having friction faces whereby the cap is yieldingly held above and in alinement with the carton, and means for forcing the cap onto the carton while said friction faces are engaged with the cap.

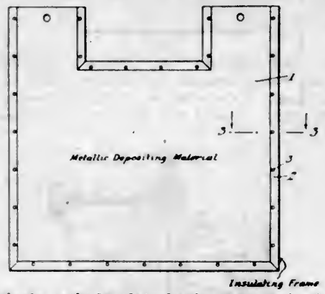
1,470,882. EGG BEATER AND CREAM WHIP. LENA SAUER, Hamilton, Ohio. Filed Sept. 30, 1921. Serial No. 504,523. 1 Claim. (Cl. 259—106.)



A device of the character described comprising a cylindrical receptacle having a handle, a cover for the receptacle and said cover being provided with a slot extending inwardly from the side edge thereof, a false semicircular bottom arranged above the lower edge of the receptacle and having formed therein a depression disposed

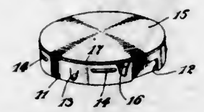
adjacent one side thereof, a bracket detachably secured to the receptacle diametrically opposite the handle and having its upper end angularly disposed toward the receptacle, said angle end being provided with a slot adapted to register with the slot in the cover, a spindle arranged at an inclination and finding bearings in the respective slots and the depression respectively, beater arms carried by the inclined end of the spindle, means for locking the spindle for operative position in the slot of the angle bent end and means carried by the bracket for rotating the spindle.

1,470,883. CATHODE FOR THE ELECTROLYTIC REFINING OF METALS. CHARLES H. SCHUH, Brooklyn, N. Y. Filed Nov. 22, 1922. Serial No. 602,552. 15 Claims. (Cl. 204—6.)



5. A single cathode plate having two main depositing surfaces, non-conducting material about the peripheral edges of said plate, said material being flush with the aforesaid depositing surfaces.

1,470,884. COMPACT CARRIER. JULIUS SCHMID, Montgomery, N. Y. Filed Dec. 13, 1922. Serial No. 606,627. 8 Claims. (Cl. 132—83.)



8. In a compact carrier, in combination, a bottom having an upwardly extended flange, a plurality of outwardly extended binding members carried by the flange, a recess within the flange capable of receiving the hinge of a hinged powder box into which the compact carrier is inserted, a removable cover the flange of which will telescope within the bottom flange, an extended bead around the cover and a plurality of openings within the bottom flange.

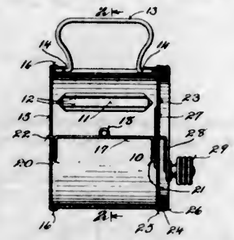
1,470,885. PROCESS FOR THE PRODUCTION OF PROPIONATES AND PROPIONIC ACID. JAMES M. SHERMAN, Washington, D. C., and ROSCOE H. SHAW, Chicago, Ill., dedicated, by mesne assignments, to the People of the United States. Filed Aug. 26, 1922. Serial No. 584,542. 8 Claims. (Cl. 260—120.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. The process of producing propionates by treating lactose with organisms of the type of *Bacterium acidi propionici*, and separating from the resulting fermentation mixture the propionics therein produced.

3. The process of producing propionates by treating salts of lactic acid with organisms of the type of *Bacterium acidi propionici*, and separating from the resulting fermentation mixture the propionics therein produced.

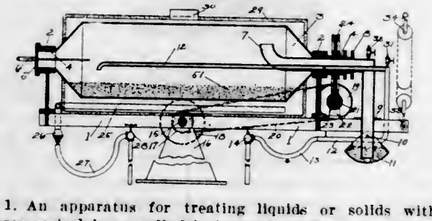
7. The process of producing propionates by treating carbohydrates with organisms of the type of *Bacterium acidi propionici* and separating from the resulting fermentation mixture the propionates therein produced.

1,470,886. CLOTHESLINE REEL. GEORGE E. SHERWIN, Milwaukee, Wis. Filed Apr. 25, 1922. Serial No. 556,361. 3 Claims. (Cl. 242—101.)



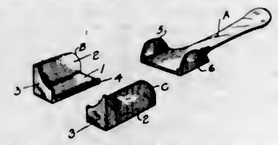
1. In a clothes line reel the combination of a cup-shaped container having an opening in the end wall, a closure member forming a second end wall having a second opening therein and a winding wire extending through said opening, said wire having a pair of laterally directed deformations, one of said deformations being inwardly of and adjacent to said first mentioned opening, the other of said deformations being inwardly of and adjacent to said second opening.

1,470,887. APPARATUS FOR TREATING LIQUIDS OR SOLIDS WITH GASES. WILLIAM SIECK, Jr., Chicago, Ill., assignor to Sieck & Drucker, Inc., Chicago, Ill., a Corporation of Illinois. Filed Nov. 7, 1921. Serial No. 513,314. 14 Claims. (Cl. 266—18.)



1. An apparatus for treating liquids or solids with gases, embodying a cylindrical container, the normal position of the axis thereof being substantially horizontal, means for revolving the container, means mounting the container for inclination in one direction while the same is revolving, for the purpose of introducing a charge to be treated, and for inclination in another direction while revolving, for the purpose of discharging said charge, means for introducing a gas into the container from one end thereof, means for removing the products of reaction from the opposite end of the container, means closing the discharge outlet of the container at all positions of inclination of the axis, and mechanical means for removing the contents of the container and mixing the same with a sealing medium without exposing the contents of the container to the air.

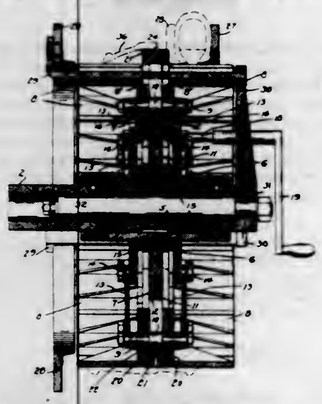
1,470,888. DENTAL IMPRESSION TRAY. VICTOR CLYDE SMEDLEY, Denver, Colo. Filed Mar. 14, 1922. Serial No. 543,638. 3 Claims. (Cl. 32—6.)



1. A dental tray composed of two similar tray members adapted to be brought together to form a rectangular parallelepipedal-shaped receptacle having an open side for the reception of impression material, each of said members having along the line of contact of the bottom parts thereof an inwardly projecting rib adapted to form a line

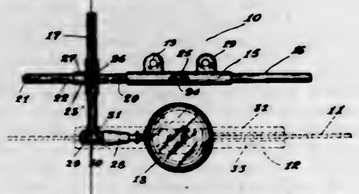
of breakage in said impression material, and means for holding said members in assembled relation, said means comprising a handle having two spaced parallel projecting members adapted to contact with the outer parallel surface of said tray members above the bottom thereof, the contact surfaces of the handle being of less area than that of the outer surface of the tray members which they engage.

1,470,889. APPARATUS FOR MANUFACTURING TIRE CASINGS. WILLIAM J. STEINLE, Flushing, N. Y., assignor to The Hartford Rubber Works Company, a Corporation of Connecticut. Filed May 26, 1922. Serial No. 563,737. 19 Claims. (Cl. 154—10.)



1. In an apparatus for manufacturing tire casings for motor vehicles, a collapsible drum upon which a casing may be assembled in band form, and means for shaping the band from the flat to approximately tire form in situ on the drum when collapsed.

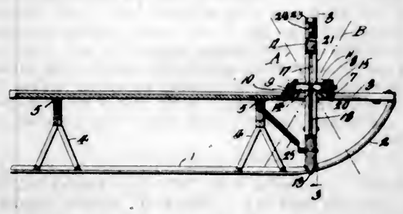
1,470,890. ADJUSTABLE MAGNIFIER. CHARLES S. STONE, Bremerton, Wash., assignor of one-half to Annie Grassier, Seattle, Wash. Filed Oct. 8, 1921. Serial No. 506,509. 1 Claim. (Cl. 88—39.)



A device of the class described comprising a base, clamping means mounted upon said base, a U shaped supporting member adapted to be clamped in a radial and longitudinal position within said base, a tubular T member having clamping means mounted thereon that is adapted to clamp said U shaped member for radial and longitudinal movement of said member, a straight member adapted to be clamped within said T member for lateral and radial movement, a magnifying element adjustably disposed for angular movement upon one end of said straight member, and clamping means for said magnifying element.

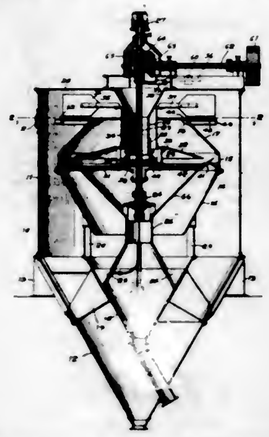
1,470,891. SLED. EWALD E. STURK, Portland, Me. Filed Feb. 24, 1923. Serial No. 620,936. 6 Claims. (Cl. 280—21.)

1. In combination, a sled, a loop frame revolvably mounted on the sled, a ground engaging rod movable through the loop frame and provided with a longitudinally extending slot, a member mounted in the loop frame passing through said slot whereby the ground engaging rod



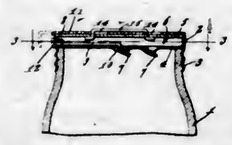
may be pivoted and moved through the loop, and means for normally holding the rod out of engagement with the ground.

1,470,892. AIR SEPARATOR. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 26, 1921. Serial No. 495,706. 7 Claims. (Cl. 83—54.)



1. An air separator comprising, in combination, outer and inner casings having openings between them, an upright shaft projecting into the inner casing and having driving means at its upper end, a rotary distributor mounted on said shaft, a fixed feed tube surrounding said shaft and adapted to deliver materials to the distributor, a sleeve shaft mounted on the rotary distributor, a fan supported and rotated by said sleeve shaft for inducing an air current through said casings, valve means adjacent the fan for regulating the flow of air from one casing to the other, and whirl-producing means at the opening through which the air enters the inner casing.

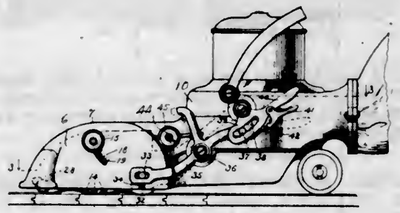
1,470,893. SHAKER. JEREMIAH B. SWEET, Hutchinson, Kans. Filed July 28, 1922. Serial No. 578,246. 2 Claims. (Cl. 65—45.)



1. In a device of the class described, a casing having an inlet and an outlet, and a cleaner mounted at its inner end to swing on the casing, the outer end of the cleaner

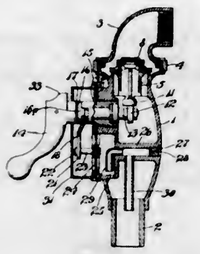
being movable in the outlet, and the center of mass of the cleaner being so located with respect to its inner end, that the cleaner will swing pendulum-wise when the casing is moved.

1,470,894. VACUUM CLEANER. NEWTON A. THROOP, Chicago, Ill. Filed Mar. 11, 1920. Serial No. 365,036. 22 Claims. (Cl. 15—6.)



1. In a vacuum cleaner, mechanism for creating a vacuum, a brush reciprocal in the direction of the movement of the cleaner independently of the frame of the same which sweeps the surface being cleaned when moving in one direction and is lifted therefrom when moving in the opposite direction and means actuated by said mechanism for reciprocating and raising said brush.

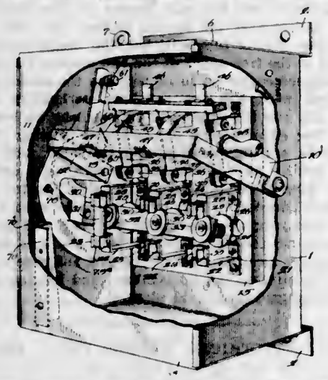
1,470,895. AUTOMATIC CLOSING VALVE. MILFORD T. VANDERVOORT, Grand Rapids, Mich., assignor to Wolverine Brass Works, Grand Rapids, Mich., a Corporation of Michigan. Filed Dec. 7, 1920. Serial No. 428,889. 6 Claims. (Cl. 137—139.)



1. In a construction of the character described, a casing through which liquids may pass, a valve in the casing movable to two different positions, one an open position permitting the passage of liquids and the other a closed position preventing such passage, means for manually moving the valve to open position, said means tending to return to its normal position as soon as released, a brake acting on said means to interpose a check against too rapid return, whereby the valve is checked in its return from open to closed position, and means automatically acting to operate the brake to make the same of greater or less effectiveness in accordance with the greater or less pressure of the liquid passing through the casing.

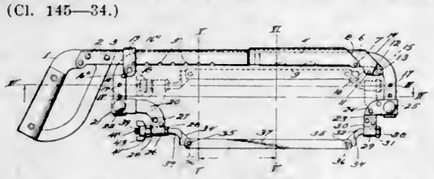
1,470,896. STARTING SWITCH. HERMON L. VAN VALKENBURG, Milwaukee, Wis., assignor to Industrial Controller Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 30, 1919. Serial No. 348,332. 8 Claims. (Cl. 200—3.)

1. A motor starter having a main switch, a subsidiary switch, a protective device in series with the main switch and connected in shunt around the subsidiary switch, an operating handle, means operated by said handle in moving from initial off position to first close the subsidiary switch, and a spring interposed between the handle and



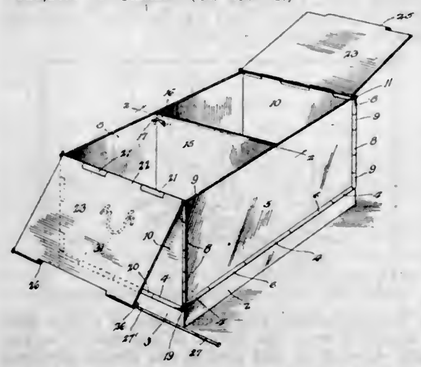
the circuit closing element of the subsidiary switch to enable the handle to continue its forward movement after the subsidiary switch is closed.

1,470,897. HACK SAW. ALBERT G. VOLTZ, Tulsa, Okla. Filed Mar. 20, 1922. Serial No. 545,153. 18 Claims. (Cl. 145—34.)



1. A hack saw comprising a back, a saw blade, a pair of angle blade holders connected to the opposite ends of said blade, a pair of arms each carrying one of said holders, said arms being mounted for independent adjustment along said back, and means connecting said arms and holders and permitting the latter to be inverted for positioning the blade-attaching ends of said holders either toward or away from said back and thereby varying the distance between said blade and back.

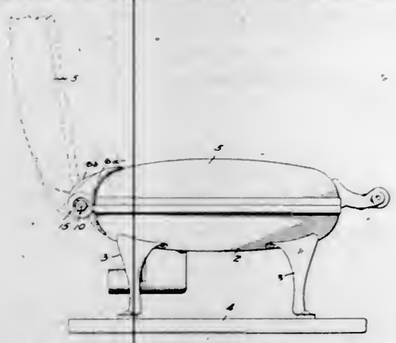
1,470,898. FOLDABLE EGG CRATE. AUBREY B. WEBB, Cunningham, Ky., assignor of one-half to Robert O. Willingham, Jr., Bardwell, Ky., and John Wesley Webb, Cunningham, Ky. Filed Nov. 10, 1921. Serial No. 514,273. 1 Claim. (Cl. 220—6.)



A collapsible crate comprising a bottom plate having upstanding side and end flanges, the side flanges being higher than the end flanges, a partition hinged to the bottom plate

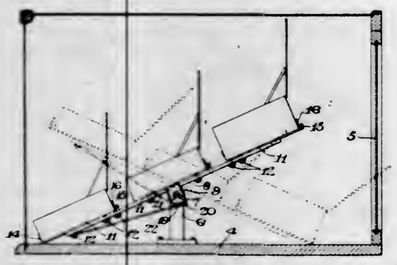
transversely at the center of the same and adapted to swing down upon the bottom and lie flat thereon, end members hinged to the end flanges of the bottom and adapted to fold over the bottom between the side flanges thereon and overlie the partition, top members hingedly connected to the free edges of the end members and adapted in collapsed condition to lie between the side flanges of the bottom with one top member overlapping an end member and one top member overlapped by an end member, the free edges of the top members meeting over the partition in set up position and provided with alined eyes, a locking pin engageable through said eyes, side members hinged to the respective side flanges of the bottom and adapted to fold over the same with one side member overlying the other side member and both side members above the end members and the top members, sleeves on the meeting ends of the end and side members arranged to aline in set up position, and locking pins removably engageable in said sleeves.

1,470,899. ELECTRICAL WAFFLE IRON. GEORGE F. WELLS, San Francisco, Calif. Filed Mar. 3, 1922. Serial No. 540,686. 20 Claims. (Cl. 219—19.)



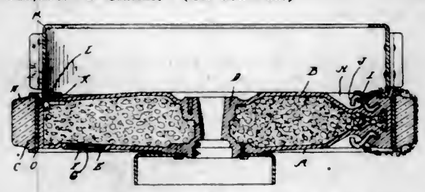
1. An electrical cooking utensil having upper and lower cooking element-carrying sections and a hinge structure connecting said sections and including a leaf member having a pair of spaced co-axial journal eyes and having lands to be secured to one of said sections, a sleeve fitting between said eyes and having a land part attachable to a section of the utensil, and means for connecting the sleeve and the leaf member.

1,470,900. DISPLAY AND DISPENSING DEVICE. MERLE J. WEST, Milwaukee, Wis., assignor to West Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed May 14, 1921. Serial No. 469,524. 6 Claims. (Cl. 211—25.)



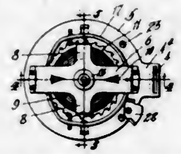
1. The combination, with a show case, of a pivot member supported above the bottom of said case, a support tiltably mounted on said member and liftable therefrom for removal and having rests to receive a row of boxes, said support being tiltable forwardly to a display position or rearwardly to a dispensing position.

1,470,901. TRACTOR WHEEL. THOMAS C. WHITEHEAD, Detroit, Mich. Filed Apr. 3, 1922. Serial No. 548,990. 2 Claims. (Cl. 301—41.)



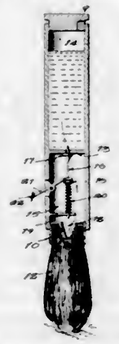
1. A vehicle wheel having a cast disk body provided with one or more pockets adjacent to its periphery, and a chain hook located in each pocket and having a shank cast into the metal of the wheel.

1,470,902. AUTOMATIC OVERFLOW ALARM. CHARLES F. WILLINGHAM, Dallas, Tex. Filed Mar. 10, 1922. Serial No. 542,726. 6 Claims. (Cl. 116—111.)



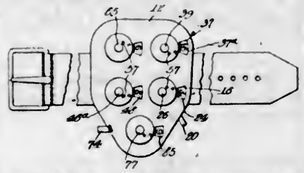
3. In an overflow alarm, a casing, a bell carried by the casing, an oscillatory member, means to oscillate the member, a reciprocal member carried by the member and having its ends engaging the bell to sound the latter, a float, and means controlled by the float to normally hold the oscillatory member inactive and to release the latter upon predetermined movement of the float.

1,470,903. FOUNTAIN SHAVING BRUSH. FREDERICK E. AHLBERG, Port Reading, N. J. Filed Feb. 28, 1922. Serial No. 539,951. 1 Claim. (Cl. 15—138.)



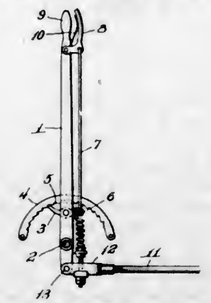
A fountain shaving brush comprising a hollow handle having a partition therein equipped with a central aperture, said partition dividing the handle into a reservoir and a valve chamber, a slot in the wall of the valve chamber, a bristle carrying part associated with the outer end of the valve chamber, a guide in the valve chamber having an opening in alignment with the opening in the partition, a valve rod having a valve body adapted to seat against the partition, an abutment carried by the valve rod, a spring on the latter disposed between the guide and the abutment to normally close the valve against the partition, and a lever pivoted to the handle and extending through the slot therein and having an end associated with the valve rod adjacent the abutment to operate thereon.

1,470,904. GOLF-STROKE REGISTER. BERNHARD M. BESKOW, Miami, Fla. Filed Jan. 14, 1921. Serial No. 437,198. 4 Claims. (Cl. 235—113.)



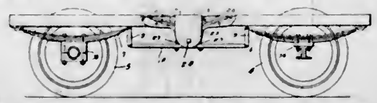
1. In a golf stroke register, the combination with a suitable casing, of a single dial within said casing for registering the number of strokes for each hole of the course, and dials, geared to said first-named means, for registering the total score of the course, the indicating numerals on these various dials being so located as to be all visible at one face of said casing.

1,470,905. BRAKE MECHANISM FOR AUTOMOBILES. CHAUNCY D. BROWN, Warrenton, Va. Filed Dec. 6, 1922. Serial No. 605,283. 5 Claims. (Cl. 74—39.)



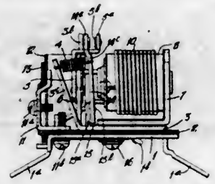
1. In a brake mechanism of the character described, the combination of a pivoted brake lever, a brake rod coupled thereto, a rack, a pivoted dog or pawl carried by the lever to engage the teeth of the rack, manually operable means for manipulating said pawl, and a spring connection between the pawl and the brake rod operating to normally hold said pawl firmly in locking position.

1,470,906. SHOCK ABSORBER. JOSEPH H. BUETER, Fort Madison, Iowa. Filed July 11, 1921. Serial No. 483,736. 1 Claim. (Cl. 280—104.)



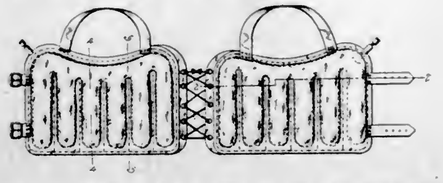
The combination with a vehicle frame, of front and rear axles supporting the same, wheels carrying the axles, leaf springs arranged near each side of the frame and extending longitudinally thereof and having their outer ends pivotally connected with said axles, a bracket secured to the frame near each side between the inner ends of said leaf springs, said bracket having a top and spaced inner and outer side walls, a block arranged within the bracket near the inner and outer side walls and pivotally connected therewith, a leaf spring arranged within the bracket upon the upper face of the block, means to clamp the intermediate portion of the last named leaf spring to the upper face of the block, said last named leaf spring having its ends engaging the top of said bracket, arms rigidly secured to the block and projecting longitudinally of the vehicle frame beyond the same, and means for pivotally connecting said arms with the inner ends of the first named leaf springs.

1,470,907. AUTOMATIC CONTROLLER. FREDERIC HENRY BULLINGER, Yonkers, N. Y., assignor to Ward Leonard Electric Company, a Corporation of New York. Filed Jan. 28, 1921. Serial No. 440,603. 4 Claims. (Cl. 200—87.)



3. An automatic controller comprising a magnet having a voltage coil and a series coil, an armature, contacts controlled thereby, a base plate of sheet metal having an extension forming a support and said support being also a terminal connection, a sheet of insulating material on said base plate, a sheet metal element electrically connected with the frame of said magnet and having an integral outward extension forming a terminal and also having an upward extension, an element for carying the fixed contact and supported on said upward extension and insulated therefrom, and another terminal element supported on said insulating sheet, one lead from the series coil being electrically connected to said last named element and the other lead from said coil being electrically connected to said element supporting the fixed contact, and one lead from the voltage coil being connected to said base plate and the other lead from said voltage coil being in electrical connection with said outward extension.

1,470,908. LIFE PRESERVER. JOHN CATANZARO, Framingham, Mass. Filed Feb. 13, 1923. Serial No. 618,841. 1 Claim. (Cl. 9—17.)

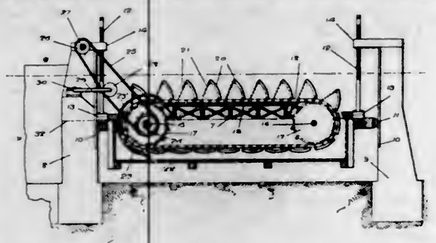


A combination in a life-preserver and swimming-device of two independent inflatable units each having a series of vertically parallel pneumatic rubber tubes with a horizontal tube extending the full length of the inflatable unit, said vertical finger tubes opening into a horizontal tube with an inflating valve connected with said horizontal tube, said inflatable units being encased in canvas coverings, having shoulder supports and provided with eyelets and lacing for back adjustment and straps and buckles for front adjustment.

1,470,909. WATER MOTOR. FRANK CHAPMAN, Winamac, Ind., assignor of one-fourth to Sylvester Chapman, and one-fourth to Wilbert Chapman, both of Winamac, Ind. Filed May 29, 1922. Serial No. 564,409. 1 Claim. (Cl. 170—84.)

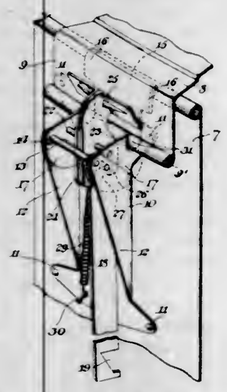
A water motor comprising a pair of front piers, a pair of rear piers, a vertically adjustable frame having its front and rear ends abutting the front and rear piers for vertical sliding motion, means carried by the piers and connected to the frame for adjusting the frame vertically, front and rear transverse shafts carried by the frame, sprocket wheels on said shafts, endless sprocket chains passing around said sprocket wheels, a deck supported by the frame underneath the upper runs of the chains for supporting the chains between wheels, a boxing carried by the frame below the deck and enclosing the lower portions of the chains and sprocket wheels,

buoyant blades hingedly connected to said chains to swing away from and against the chains by the buoyancy



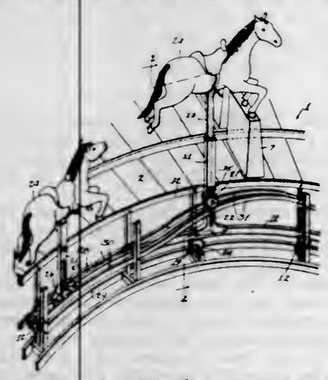
of said blades at the upper and lower runs of the chains, and a submerged dam between the front piers to compel the water to flow over said deck and frame.

1,470,910. ACTUATING DEVICE. WALTER D. BANKS, Germantown, Pa., assignor to General Pressed Metal Company, a Corporation of Pennsylvania. Filed June 24, 1921. Serial No. 480,129. 25 Claims. (Cl. 220—36.)



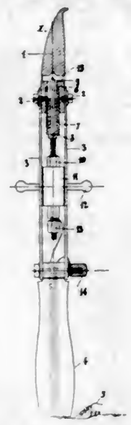
1. Actuating mechanism for flanged covers comprising means forming a pocket adapted to receive and retain in its actuating positions a portion of the cover flange and arbitrarily actuated means for simultaneously lifting and tilting said cover.

1,470,911. MERRY-GO-ROUND STEEPLECHASE. FRANK V. BURROW, Los Angeles, Calif. Filed Mar. 27, 1922. Serial No. 547,139. 3 Claims. (Cl. 46—27.)



2. A merry-go-round steeple chase comprising a circular stationary track, having vertical concentric slots, posts mounted to run in the slots, extension posts slidably mounted in the first posts, horses upon the extension posts, slotted hurdles upon the track, means for causing said posts to run in said slots and means for reciprocating said extension posts whereby the horses are caused to jump the hurdles.

1,470,912. ELECTRIC SOLDERING IRON. JULES FRANÇOIS COEUILLE, Paris, France. Filed Feb. 21, 1922. Serial No. 538,248. 1 Claim. (Cl. 219—28.)



A soldering iron worked by means of an enclosed electric arc and essentially characterized by the fact that it includes a copper head of variable shape, secured on two cross ties mounted on a suitable handle; said head being provided with a housing in which is arranged a tube made of insulating material; a rod fitted with a carbon and adapted to slide within said tube; said carbon-carrier rod being connected to a part mad of insulating material and provided with two studs adapted to move in side slides made in the cross-ties, so as to allow arc adjustment; current feed wires passing through the handle, one of said wires being connected to the mass of the copper head and the other to the carbon by suitable connections; side holes in the copper head permitting escape of gases.

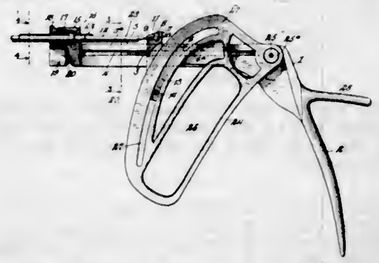
1,470,913. ELASTIC TIRE. FREDERICK E. CRAIG, Lawrence, Mass. Filed Apr. 1, 1922. Serial No. 548,697. 1 Claim. (Cl. 152—8.)



In combination, a tire shoe or carcass adapted to be opened and contracted, and an annular cushioning member composed of square wire helically coiled flexed, and united at its ends to form a continuous annular helix in which the convolutions are substantially radial to the center of the annulus, are abutted together at their inner portions to form a practically continuous inner face, and diverge from said inner face to form an outer face contacting with the tread portion of the shoe, and

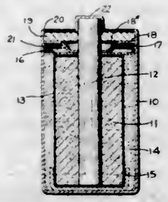
interrupted by tapering spaces between the convolutions maintained by the abutting of the inner portions at less width than the thickness of the wire, whereby said outer face is prevented from indenting the inner face of the shoe, the transversely flat outer sides of the convolutions being maintained parallel with the inner face of the shoe by the radial arrangement of the convolutions, so that said sides collectively constitute a helical runner, adapted to creep on the inner face of the shoe, and thereby distribute wear.

1,470,914. UNIVERSAL HANDLE FOR SURGICAL INSTRUMENTS. EMORY C. DAY, Laguna Beach, Calif. Filed June 20, 1921. Serial No. 478,909. 14 Claims. (Cl. 128—320.)



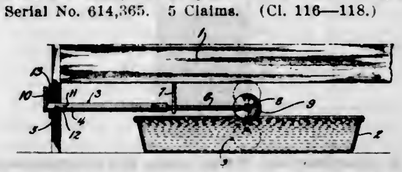
1. A handle for surgical instruments, comprising a handhold and a stock, the latter consisting of laterally spaced side members, a slide movable in the space between said members and slidably engaging the same, a lever pivoted at its top to the end of the stock and movable vertically in the space between said members in rear of the slide, and a direct connection between the lever and the slide in advance of the pivot of said lever, whereby the movement of the lever rearwardly toward the handhold moves the slide rearwardly along said stock.

1,470,915. DRY CELL. HAROLD DE OLANETA, New Haven, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Filed June 18, 1920. Serial No. 390,022. 30 Claims. (Cl. 204—38.)



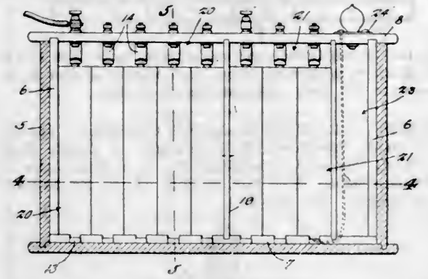
1. A dry cell, having a sheet metal cup and a preformed end closure disk over which the edge of the cup at the mouth portion thereof is lapped.

1,470,916. WATER-LEVEL INDICATOR. JOHN VINCENT DE WALD, Philadelphia, Pa. Filed Jan. 23, 1923. Serial No. 614,365. 5 Claims. (Cl. 116—118.)



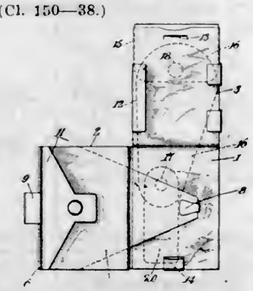
4. The combination with a refrigerator and a drip pan, of an adjustable rock shaft mounted on the refrigerator; an arm on the rock shaft; a float on the arm; an indicator on the rock shaft; a dial on the refrigerator, and a projection on the dial for holding the float out of the drip pan.

1,470,917. BATTERY CABINET. HERBERT C. GOSS, Beach Haven, Pa. Filed June 6, 1922. Serial No. 566,324. 1 Claim. (Cl. 204—29.)



In a battery cabinet, an outer section and a removable inner section, partitioning members disposed within the inner section, blocks for holding the partitions in spaced relation with each other, said blocks being disposed in staggered relation with each other to provide compartments, the space between the partitions and walls of the inner section, accommodating battery members, conducting wires disposed in the compartments formed by the block, and contact members forming a part of the cabinet and contacting with the batteries.

1,470,918. BILL HOLDER. AUSTIN S. GRIMMER, Brooklyn, N. Y. Filed June 9, 1922. Serial No. 566,970. 14 Claims. (Cl. 150—38.)

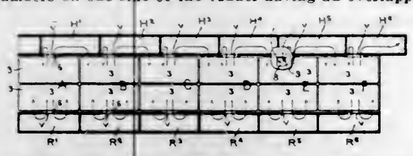


14. A bill holder comprising a plate having a flexible backing attached to its side; a second plate hinged to the first plate at its other side to turn downwardly, and means tending to hold it in the same plane; a flap on the said backing adapted to fold over on to the second plate, and means for holding said flap when so folded over; and a third plate hinged to said first plate, and having a tongue attached to said backing, and a sliding plate mounted on said third plate acting in conjunction with tongue on the back of the third plate to regulate the position of the bills.

1,470,919. DRYING APPARATUS. HERMANN HAAS, Lennep, Germany. Filed Dec. 21, 1921. Serial No. 523,928. 2 Claims. (Cl. 34—46.)

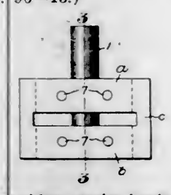
1. A drying apparatus comprising a drying canal or tunnel adapted to receive one or more cars containing material to be dried and which are arranged to divide the tunnel into sections, a plurality of heating chambers on both sides of the tunnel, there being one chamber at each side for each section, each heating chamber communicating with the corresponding section at its top and bottom,

means to cause a circulation through each heating chamber and the corresponding tunnel section, the heating chambers on one side of the tunnel having an overlapping



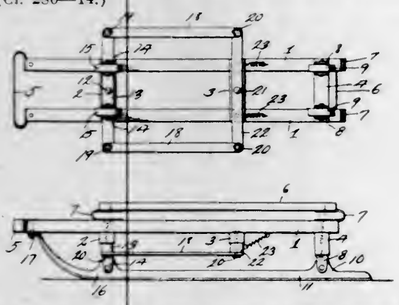
relation to the tunnel sections whereby a portion of the air which is withdrawn from each tunnel section is delivered to the next adjacent tunnel section.

1,470,920. BRAIDING-MACHINE CARRIER. JOSHUA B. HALE, Providence, R. I., assignor to Textile Engineering Company, Providence, R. I., a Corporation of Rhode Island. Filed Nov. 2, 1921. Serial No. 512,318. 13 Claims. (Cl. 96—13.)



13. A braiding machine carrier having that part thereof which is adapted to run in the raceway composed of an inner member, a lateral face whereof is of less radius than the walls of the raceway, said inner member having an outer resilient member of substantially the same radius as the said walls of the raceway.

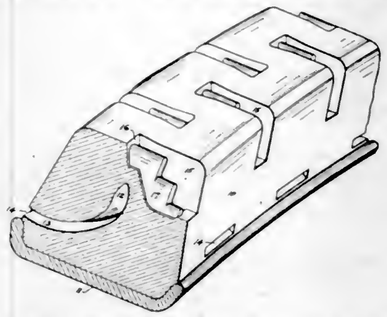
1,470,921. COASTER. ANDREW HUBER, Sterling, Ill. Filed Apr. 12, 1923. Serial No. 631,607. 2 Claims. (Cl. 280—14.)



2. The combination with a coaster having ground engaging elements, said coaster comprising a body member, rear ground engaging members carried by said body member, forward ground engaging members carried by transversely disposed pivoted bar, of steering means for said pivoted bar, said steering means horizontally and longitudinally disposed connecting bar pivoted to the ends of the pivoted bar, a transversely disposed pivoted bar pivoted to the body member and having its ends pivoted the rear ends of the connecting bars, and spring connected to the last named pivoted bar and to the body member and forming means for normally returning the pivoted bars to transverse positions.

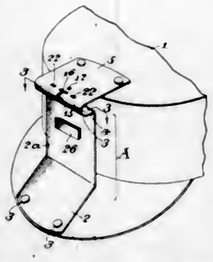
1,470,922. RESILIENT TIRE. EDISON G. HULSE, Cumberland, Md., assignor to Kelly-Springfield Tire Company, Cumberland, Md., a Corporation of New Jersey. Filed Mar. 22, 1923. Serial No. 626,854. 4 Claims. (Cl. 152—1.)

1. A resilient tire having a sub-tread void, transversely directed clefts in the tread portions sloping from their inner termini radially inwardly of the tire circumference toward the tire side walls, each of said clefts being partially obstructed by a web integrally united with the bot-



tom and inwardly directed terminus thereof and extending parallel with its said transverse extent, said web being of less depth toward the side of the tire than at its opposed terminus.

1,470,923. LAMP-SUPPORTING ATTACHMENT FOR MINERS' CAPS. WILLIAM ISRAEL, Wilkes-Barre, Pa. Filed Mar. 21, 1921. Serial No. 454,047. 3 Claims. (Cl. 240—60.)



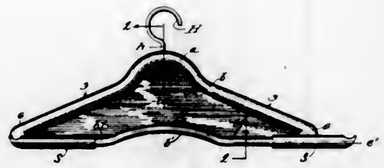
1. A lamp supporting attachment consisting of a strip of suitable material adapted to be attached to the front portion of a cap, the said strip comprising a central intermediate portion which is adapted to be situated adjacent the front part of the cap, and an overhanging portion projecting a substantial distance forwardly of the said intermediate central portion, the said overhanging portion comprising parallel portions of the said strip spaced from each other, and openings through the said parallel portions of strip arranged one above the other the said openings being adapted to receive prongs attached to the lamps for supporting the latter.

1,470,924. TIRE AND FABRIC THEREFOR. ALFRED E. JURY, Rutherford, N. J., assignor to Morgan & Wright, a Corporation of Michigan. Filed July 3, 1922. Serial No. 572,365. 5 Claims. (Cl. 154—52.)



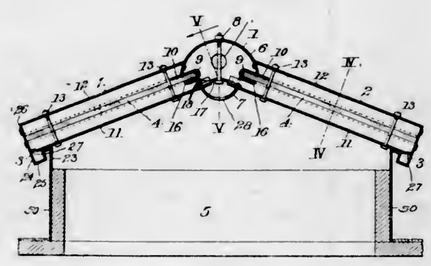
1. A rubberized cord fabric having stress-resisting-elements alternately composed of strands twisted together oppositely.

1,470,925. COAT HANGER. EUGENE KLEIN, SAMUEL KLEIN, and MORRIS KLEIN, South Pasadena, Calif. Filed Oct. 22, 1921. Serial No. 509,526. 1 Claim. (Cl. 211—13.)



A coat hanger composed of a plurality of laminations of flexible material having their adjacent surfaces secured together and molded into form, so as to provide an upper bead portion, a central web portion, and a lower bead portion of integral formation, and slidable members carried on said lower head portion and adapted to be extended outwardly from the ends, for the purpose described.

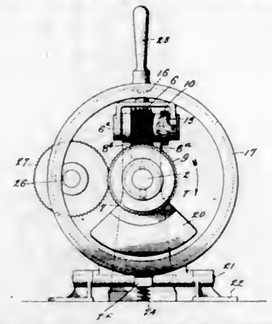
1,470,926. SKYLIGHT. PETER M. KNUDSEN, New York, N. Y. Filed June 28, 1921. Serial No. 480,989. 6 Claims. (Cl. 108—16.)



5. In a skylight, the combination with marginal gutters having upwardly extending flanges at their outer edges and lower drip openings, of lower rib members supported on said gutters and having their outer ends abutting against said flanges, plates of glass mounted on said lower rib members and also abutting against said flanges, an arched ridge member covering the upper ends of the glass plates and connected to the rib members, and means for connecting and supporting the upper marginal ends of said glass plates consisting of a trough-shaped member having marginal grooves engaging said glass plates, and ventilator openings.

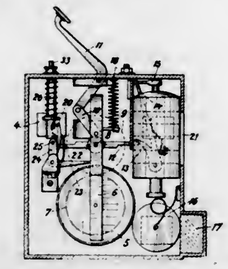
1,470,927. DEVICE FOR REGULATING THE CUT OF ROD-FORMING CIGARETTE MACHINES. EWALD KOERNER, Dresden, Germany, assignor to United Cigarette Machine Co., Inc., Lynchburg, Va., a Corporation of Virginia. Filed Nov. 25, 1921. Serial No. 517,778. 8 Claims. (Cl. 131—38.)

1. In mechanism of the class described, a rotary actuating member, a rotary driving member therefor, the actuating and driving members being angularly movable in relation to each other, gearing arranged to rotate with said members and connecting them together and operable to vary the angular relation of the members, said gearing having an operating member and a manually operated controlling member, said controlling member being



adjustable and co-operating with said operating member to cause said gearing to vary the relative angular position of the actuating member and driving member.

1,470,928. ROLLING STAMP WITH COUNTING DEVICE FOR VARIOUS PRINTING PURPOSES. HELENE KOMUSIN, GEB. LIEDTKE, Berlin, Germany. Filed Mar. 22, 1922. Serial No. 545,890. 3 Claims. (Cl. 101—329.)



1. An improved rolling stamp of the type described comprising in combination with a casing, a printing roller, a shaft for said printing roller mounted in said casing so that it can be lowered and raised in vertical direction a support for the shaft, a spring for maintaining said roller in the normal position of rest, a toggle lever system for bringing said roller to the working position and for maintaining the same in this position, a counting mechanism for registering the revolutions of said roller, a lever system controlling said counting mechanism, and a toothed wheel gear connecting said printing roller with said lever system, substantially as and for the purpose set forth.

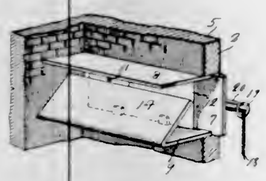
1,470,929. SESAME FLOUR AND PROCESS OF MAKING THE SAME. YU CHEN LAI, New York, N. Y. Filed June 14, 1921. Serial No. 477,611. 5 Claims. (Cl. 99—10.)

1. The herein described process of making flour from the sesame seed, which consists in heating the seed to a temperature sufficient to cook the same and grinding the seed.

1,470,930. COMBINED DAMPER AND SPARK-DEFLECTING DEVICE. LEAT MCCONNELL, Grand River, Iowa. Filed Feb. 24, 1921. Serial No. 447,387. 1 Claim. (Cl. 126—285.)

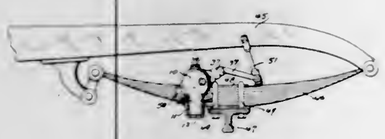
A combined damper and spark deflecting device, said device comprising a vertically disposed plate disposed in the chimney opening, a damper slidably mounted on the rear face of said vertically disposed plate and provided

with an opening cooperating with openings in the vertically disposed plate, plates extending inwardly into the chimney in horizontal relation and from the upper and lower sides of the vertically disposed plate and in parallel relation to each other, the lower inwardly extending plate terminating in an upwardly and inwardly extending plate



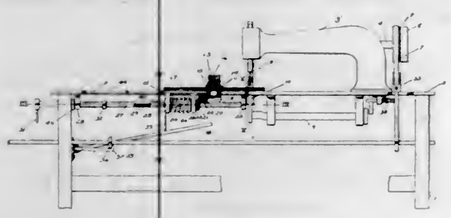
terminating adjacent the under side of the upper horizontal plate, said upwardly and inwardly extending plate forming means whereby sparks which are stopped in their upward movement by engagement with the under side of the upper horizontal plate, will, when they fall, be deflected into the chimney and away from the damper.

1,470,931. SHOCK ABSORBER. ALFRED J. PERKINS, Hamburg, N. Y. Filed May 4, 1921. Serial No. 466,834. 9 Claims. (Cl. 188—88.)



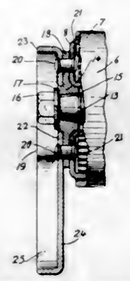
5. A shock absorber characterized by having a cylinder, a piston slidably mounted in the cylinder and formed with valved openings therethrough, baffle plates arranged above the piston, the cylinder being provided with a fluid by-pass, means for regulating the opening in the by-pass, and rack and pinion means for actuating the piston.

1,470,932. SEWING MACHINE. HARMIDOS PERRAS, Dayville, Conn. Filed May 31, 1921. Serial No. 474,041. 10 Claims. (Cl. 112—2.)



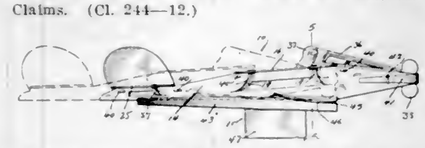
1. In a device of the character described, the combination with a bed, of a slide movable thereover, feed mechanism on the slide, and a rod rotatably secured to the bed adjacent the slide mechanism and having a rack portion at one side, whereby rotation of the rod will move the rack into and out of engagement with the feed mechanism.

1,470,933. TRIP LEVER FOR OSCILLATING MAGNETOES. ADOLPH ROSNER, Springfield, Mass., assignor to American Bosch Magneto Corporation, Springfield, Mass., a Corporation of New York. Filed Jan. 18, 1922. Serial No. 530,142. 8 Claims. (Cl. 123—149.)



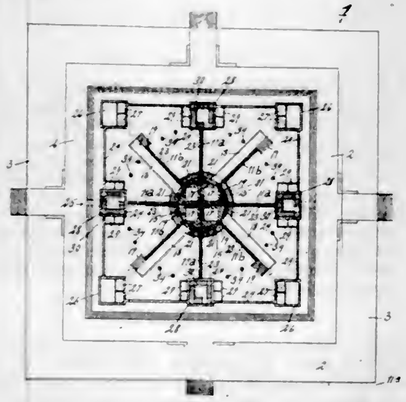
1. A magneto comprising a frame, an oscillator, a pressed-up sheet-metal trip lever connected to the said oscillator and comprising web and flange portions, and a spring operative to oscillate said oscillator.

1,470,934. TOY AIRPLANE. HOLLIS R. ROSS, Buffalo, N. Y. Filed Feb. 4, 1922. Serial No. 534,143. 7 Claims. (Cl. 244—12.)



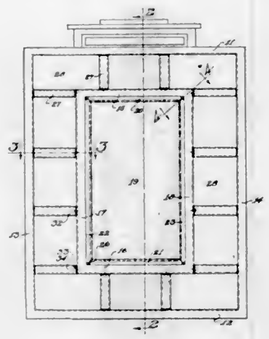
6. A toy airplane comprising a fuselage made of a single piece of material, folded upon itself and formed with planes, elevators, and integral tabs for supporting the planes and elevators, and a central member formed with a rudder.

1,470,935. OBSERVATION, AMUSEMENT, AND UTILITY TOWER. ALLAN C. RUSH, Los Angeles, Calif. Filed Apr. 7, 1920. Serial No. 373,928. 3 Claims. (Cl. 20—1.)



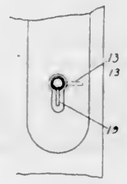
1. In an observation, amusement and utility tower, eight wings spaced equidistantly apart and extending radially from a common center, said eight wings formed of sheet steel plates secured together, a hollow center column securing the lower parts of said wings together, an auditorium above said center column and within openings through said wings, said wings and column supporting said auditorium, and other supports for said auditorium.

1,470,936. ADVERTISING DEVICE. PASCHAL SARREY and NORMAN H. HUDSON, Stoughton, Mass. Filed Oct. 14, 1922. Serial No. 594,638. 1 Claim. (Cl. 40—63.)



A display device comprising an inner frame, an outer frame, one of said frames being provided with recesses, and the other of said frames being provided with projections, and cross pieces having ends received into said recesses and opposite ends provided with spring clips cooperating with said projections to removably hold the cross pieces in position, said cross pieces having their ends provided with recesses into which said springs may be depressed.

1,470,937. KEYHOLE GUARD. FRANK W. SCHOU, Lincoln, Nebr., assignor to Vane Schou, Dodge City, Kans. Filed Nov. 26, 1921. Serial No. 517,880. 1 Claim. (Cl. 70—8.)



A key-hole guard comprising a stem which is adapted to enter a key-hole, a lug on said stem adjacent one of its ends, a keyway positioned lengthwise of said stem and extending throughout the greater portion of the length of the stem, a yoke slidably mounted on said stem, said yoke being provided with a key which cooperates with the keyway of the stem to prevent rotation of the yoke on the stem, said yoke also being provided with a lug integral therewith, said last named lug being adapted to enter the key hole and to extend into the path of rotation of said first named lug, a screw thread on said stem, a screw-threaded follower surrounding said stem, a second yoke which is adapted to surround said first named yoke and said follower, and apertures in both of said yokes, the arrangement being such that when the key-hole guard is in place in the lock, the apertures in the two yokes will register for the reception of a padlock.

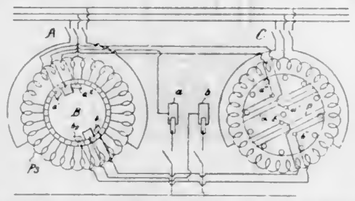
1,470,938. PNEUMATIC WHEEL. JEAN MARIE CHARLES SEMERY, Paris, France. Filed Feb. 4, 1919. Serial No. 275,039. 1 Claim. (Cl. 152—29.)

A pneumatic wheel comprising a hub, a rim, a casing on the rim, and discs connecting the hub and rim and forming therewith an air chamber adapted to contain compressed air, and a pneumatic tube mounted in the



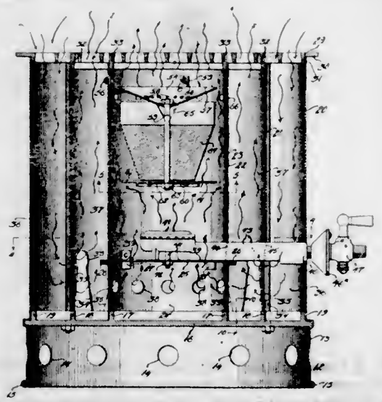
casing on said rim, the said rim and tube having aligned apertures to provide for communication between the air chamber and the tube.

1,470,939. SYNCHRONOUS DYNAMO-ELECTRIC MACHINE. HITOSI SHO, Nisikasugai Gun, Japan. Filed May 29, 1919. Serial No. 300,627. 4 Claims. (Cl. 171—123.)



1. In a converting apparatus, the combination of a static transformer having its primary winding designed to produce a rotating field and its secondary winding connected to a commutator, two pairs of brushes slightly displaced from each other and designed to co-operate with said commutator, a synchronous motor mechanically connected with said brushes to produce synchronous rotation thereof, said motor comprising a polyphase primary winding, and a secondary member provided with a squirrel cage winding and two separate direct current exciting windings, each of said exciting windings being connected to one of said pairs of slightly displaced brushes to produce synchronous rotation of said motor.

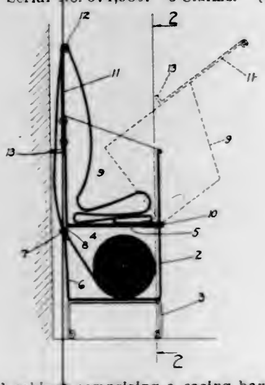
1,470,940. HEATER. CHARLES S. SNYDER, Philadelphia, Pa. Filed Dec. 13, 1921. Serial No. 522,070. 10 Claims. (Cl. 126—116.)



1. A heater of the character described including an inner drum; a heating agent therein; an outer shell surrounding said drum; an intermediate shell surrounding

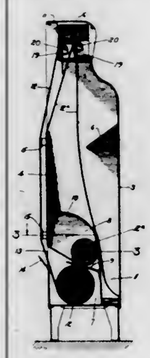
said drum and being spaced between said drum and the outer shell, said structure providing a passageway between lower portions of the space between the drum and the intermediate shell and between the intermediate shell and the outer shell, and also passages through said drum below said heating agent; and heat-deflecting means positioned above said heating agent within said drum whereby the heat from the agent will be deflected toward the inner wall of said drum; substantially as described.

1,470,941. TOWEL CABINET. FRANK M. STEINER, Minneapolis, Minn., assignor to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah. Filed Oct. 18, 1920, Serial No. 417,740. Renewed July 14, 1922. Serial No. 574,980. 6 Claims. (Cl. 45—32.)



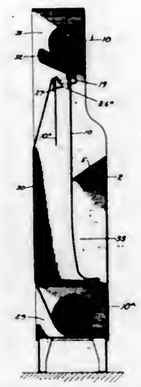
6. A towel cabinet comprising a casing having a chamber in its lower portion for the supply of clean towel and a support in its upper portion over which the web of clean towel passes to the user, said cabinet also having a chamber adjacent the clean towel receptacle for the soiled towel and an opening above said soiled towel chamber through which the user may conveniently grasp and pull the clean web, said opening being so positioned with respect to said soiled towel chamber that the towel when used and released will automatically fall therein.

1,470,942. TOWEL CABINET. FRANK M. STEINER, Minneapolis, Minn., assignor to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah. Filed Jan. 31, 1922. Serial No. 533,051. 16 Claims. (Cl. 45—32.)



1. A towel cabinet comprising a casing, a plurality of clean towel rolls therein having vertically arranged webs one in front of the other, means for delivering the clean web of toweling to the user, said delivering means being mounted to prevent access of the user to the second towel until the first one has been used.

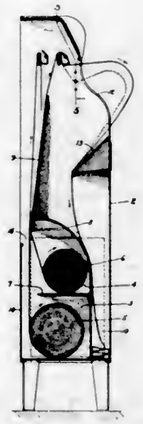
1,470,943. TOWEL CABINET. FRANK M. STEINER, Minneapolis, Minn., assignor to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah. Filed Jan. 31, 1922. Serial No. 533,052. 11 Claims. (Cl. 45—32.)



3. A towel holder having a delivery opening in its upper portion and a soiled towel chamber below said delivery opening, main and reserve towels in said holder, one above said delivery opening, the webs of said main and reserve towels depending in the rear of said opening, said main towel web being in front of said reserve web and normally concealing it until said main web is exhausted, said main and reserve webs having a delivering means adjacent said opening, said main web being stretched to said delivering means and pulled thereover by the user, and said reserve web being stretched to said delivering means when said main web is exhausted.

10. A towel cabinet comprising a support, towel grippers mounted therein for regulating the feed of the clean towel, one gripper being arranged in advance of the other and one gripper being adapted for a shifting movement of the towel web transversely thereof when the towel in the other gripper has been used.

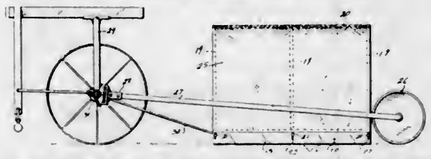
1,470,944. TOWEL CABINET. FRANK M. STEINER, Minneapolis, Minn., assignor to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah. Filed Mar. 20, 1922. Serial No. 545,174. 11 Claims. (Cl. 211—32.)



3. A towel cabinet comprising a casing, a plurality of towel webs therein, grippers arranged to receive the webs of clean towel, said grippers comprising forward and

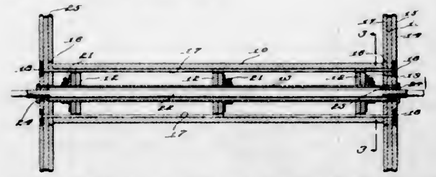
rear bars removable from their supports for transposition therein, and over which bars the webs pass and depend one in front of the other, and said grippers including means for clamping the towel webs against said bars when forward and outward pull is applied to the webs.

1,470,945. BOLL-WEEVIL EXTERMINATOR. ROBERT H. STEVENS, near Newalla, Okla. Filed Dec. 6, 1922. Serial No. 605,187. 8 Claims. (Cl. 43—138.)



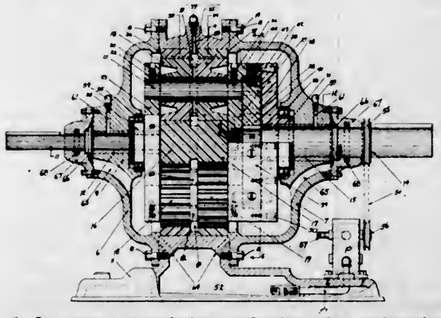
1. In combination, a superstructure adapted to engage cotton plants and by its engagement therewith to remove weevils therefrom, a pair of pans carried by the superstructure and adapted to be arranged upon opposite sides of a row of cotton plants and to receive weevils removed from the plants by the superatructure, and means carried by the base of the pans for engaging the ground beneath the plants to remove loose articles therefrom and deposit the same at the center of the rows together with means following the pans for destroying loose articles thus deposited.

1,470,946. SECTION BEAM. RAY THORNTON, New Bedford, Mass. Filed Jan. 18, 1921. Serial No. 438,112. 4 Claims. (Cl. 242—124.)



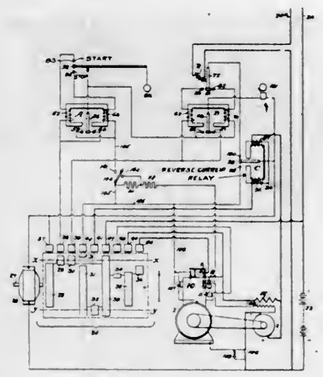
4. A section-beam comprising a barrel, heads for the same, a pipe running through said barrel, a removable shaft in said pipe, the ends of said shaft extending beyond the ends of said pipe, bushings threaded to said shaft near the ends thereof and fitting into the ends of said pipe, and rods passing through said barrel and clamping said heads against the ends of the same.

1,470,947. POWER-TRANSMISSION MECHANISM. WARREN C. TYLER, East Orange, N. J., assignor to Bennington Scale Mfg. Co., Inc., Bennington, Vt., a Corporation of Vermont. Filed Oct. 29, 1920. Serial No. 420,337. 15 Claims. (Cl. 74—34.)



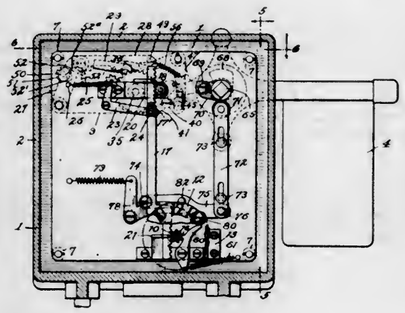
1. In power transmission mechanism, the combination of a casing, driving and driven shafts independently journalled in said casing; planetary gearing supported in the casing independently of the driving and driven shafts operated from the driving shaft; and a flexible coupling between the planetary gearing and driven shaft for the purpose specified.

1,470,948. AUTOMATIC ELECTRIC GENERATING SYSTEM. ALFRED R. VAN HORN, Philadelphia, Pa.; Jennie S. Van Horn executrix of said Alfred R. Van Horn, deceased. Filed May 7, 1919. Serial No. 295,361. 9 Claims. (Cl. 290—30.)



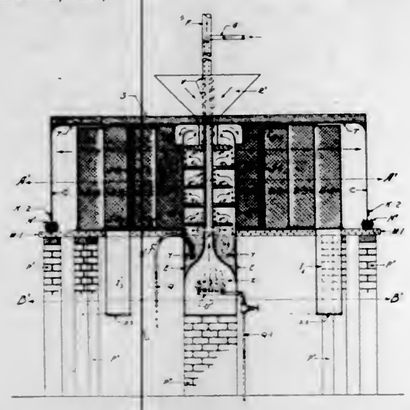
5. A controlling apparatus for a system of the character described, comprising a motor-driven controller, a load coil, a reverse current relay, two electro-magnets, a hydrometer switch, means of connection between the load coil and one of the electro-magnets for starting the controller motor, means of connection between the hydrometer switch and the other electro-magnet for starting the controller motor, and means of connection between the reverse current relay and the controller, said apparatus being adapted to be used in connection with the dynamo electric machine, prime mover and the storage battery.

1,470,949. TAXIMETER. ABRAHAM WEISINGER, Newark, N. J. Filed July 15, 1922. Serial No. 575,262. 6 Claims. (Cl. 235—30.)



1. In a taximeter, means for recording extra charges comprising, an indicating dial, a rack bar for moving said dial, means for driving the rack bar, detents for holding said dial and rack bar driving means in definite positions, means external to the taximeter for manually operating the means for driving said rack bar whereby said dial is given a step by step movement.

1,470,950. MACHINE USED FOR THE PROCESS OF SUBLIMATION. ELLIOT Q. ADAMS, Berkeley, Calif., by mesne assignments dedicated to the People of the United States for their free use and enjoyment. Filed Sept. 18, 1919. Serial No. 324,730. 9 Claims. (Cl. 183—11.) Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



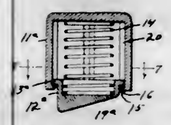
1. In apparatus of the character set forth, the combination with a series of communicating condensing chambers, one within the other, of means for introducing vapors to be condensed into the inner chamber and permitting their outward flow through the others, means for securing different temperatures in the different chambers, and means for separately collecting the different materials condensed in the different chambers respectively and separately withdrawing the same.

1,470,951. BOLT. ANDREW CHRISTIAN ANDERSEN, THOMAS PORTER ARCHER, and PAUL WALDO SEILER, Detroit, Mich., assignors to Ternstedt Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 14, 1921. Serial No. 522,210. 4 Claims. (Cl. 292—137.)



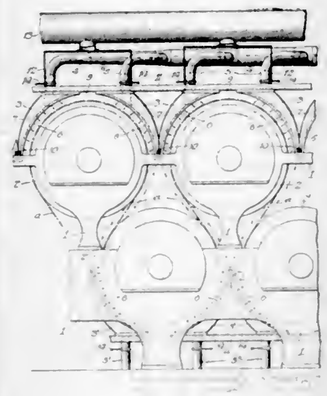
1. A lock or latch bolt comprising a case provided with back and front plates, a sliding bolt provided with a head and a body portion, the latter guided at one side on one of the plates and having at the opposite side a spot arranged to engage with such plate and spring it slightly for the purpose of forming a minimum friction anti-rattle engagement of the bolt with its guide.

1,470,952. ANTIRATTLING DEVICE FOR VEHICLES. SAMUEL BARUCH, New York, N. Y. Filed May 26, 1922. Serial No. 563,751. 4 Claims. (Cl. 292—74.)



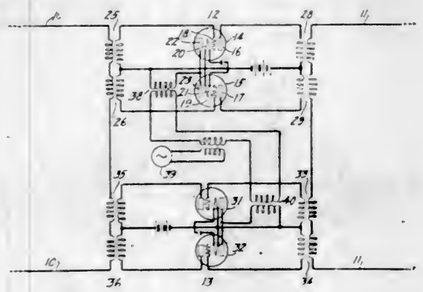
1. In combination a cup shaped casing member having a plate portion integral therewith at the open end, a ring within said open end and of smaller internal diameter than said casing, a portion of said casing wall at the open end thereof being swaged over to retain said ring in position, a contact member substantially of cup shape, and having a peripheral flange having sliding engagement within said first mentioned member and retained by said ring and a spring tending to separate said members.

1,470,953. PAPER-MAKING MACHINE. EDWIN M. BASSLER, Milwaukee, Wis. Filed Mar. 22, 1920. Serial No. 367,623. 11 Claims. (Cl. 34—48.)



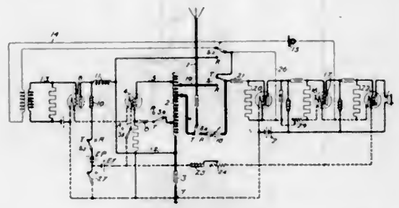
2. In a paper making machine, the combination of a drying roll, a header supported adjacent thereto, a pipe adapted for connecting said header with a source of supply of warm air under pressure, the side of said header adjacent to said roll being provided with openings adapted for discharging air therefrom substantially uniformly over an area of a web of paper passing around said drying roll and extending entirely across the same, substantially as described.

1,470,954. REPEATING METHOD AND SYSTEM. WILLIAM E. BEATTY, Bayside, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 11, 1920. Serial No. 429,930. 20 Claims. (Cl. 179—170.)



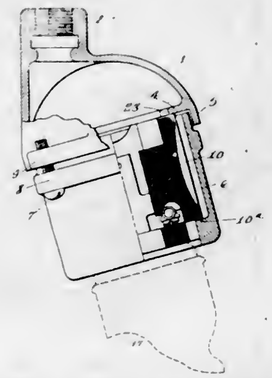
1. The method of employing a repeater for repeating signals between line sections, which comprises the step of paralyzing said repeater at times and preventing the paralyzation from producing a simultaneous fluctuation in the currents of both of said line sections.

1,470,955. ELECTRICAL-WAVE-TRANSMISSION SYSTEM. WILFRED E. BOOTH, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 22, 1919. Serial No. 339,837. 20 Claims. (Cl. 250—6.)



11. A radio circuit including transmitting means comprising a microphone, and a receiving circuit, comprising elements other than said transmission circuit and comprising a discharge device having a cathode, said microphone being connected across a part of said circuit including said cathode.

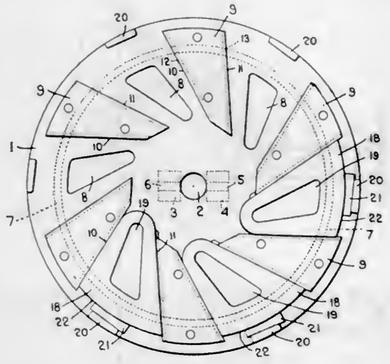
1,470,956. PLUG RECEPTACLE. CARL H. BISSELL, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed June 21, 1918. Serial No. 241,222. 1 Claim. (Cl. 247—15.)



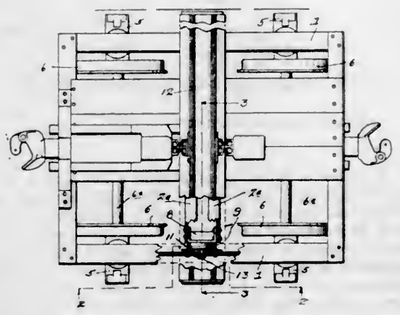
A plug receptacle comprising a body in the form of a cap open at one side and having an internal flange near said open side, and a flange skirting the opening of the open side at an angle to the former flange, a housing extending into the open side within the last mentioned flange and toward the internal flange, means for securing the housing to the body, and a socket located in the housing, the socket extending into the housing from the inner end thereof and engaging the internal flange of the body, and having means for interlocking with said housing to prevent turning of the socket, the housing having an opening at its free end, and means for coacting with said internal flange for holding the socket from endwise movement, substantially as and for the purpose specified.

1,470,957. ROTARY GRINDING OR POLISHING TOOL. ERCOLE CAVICCHI, Quincy, Mass. Filed Apr. 12, 1920. Serial No. 373,097. 3 Claims. (Cl. 51—209.)

1. A grinding tool comprising a rotatable supporting disk having a series of holders projecting from the underface thereof and provided with inwardly converging undercut walls forming sockets for abrading members, abrading members of substantially segmental form inclined rearwardly in respect to radial planes extending from the axis of the disk to the outer ends of said walls having flanges conforming substantially to said under-cut walls, adapted to be secured in said sockets by inward longitudinal movement relatively to the walls of said holders, apertures in said abrading members having walls substantially parallel respectively with the straight and curved walls of said segmental abrading members, communicating apertures in said disk and means for locking said abrading members against longitudinal movement when seated in said sockets.



1,470,958. RAILROAD TRUCK. ELBERT G. CHANDLER, Portland, Oreg. Filed Dec. 14, 1922. Serial No. 606,875. 4 Claims. (Cl. 105—203.)

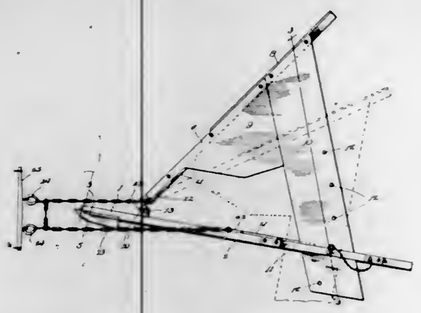


1. In a truck, a wheel-mounted frame, comprising two rigid side members, transverse members connecting the side members at their ends, a transverse load-carrying member connecting the side members at their longitudinal middle, said load-carrying member having one of its ends pivotally connected to the adjacent side member, thereby permitting the rotation of said side members, relatively to each other, about the longitudinal axis of said load-carrying member, said transverse end members being adapted to accommodate the said rotation of said side members.

1,470,959. DITCHER AND GRADER. SENAT T. COOK, Cowgill, Mo. Filed June 28, 1922. Serial No. 571,468. 2 Claims. (Cl. 37—173.)

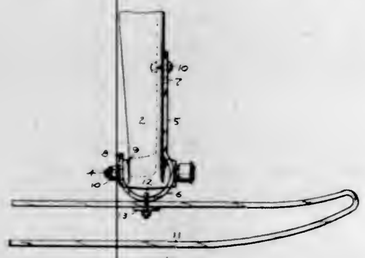
1. In a grader, a share, an excavating point secured rigidly to the side of the share at the forward extremity of the same and having its front edge beveled and in-

clined upwardly and rearwardly and having a lateral horizontal lip extending along its lower edge on its outer



face, and a flat scraper blade secured upon the side of the share in rear of and abutting the point and extending to the rear end of the share.

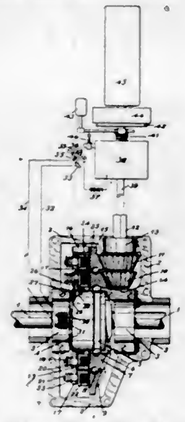
1,470,960. SPRING BUFFER OR BUMPER. WILLIAM G. COX, Cleveland, Ohio, assignor, by mesne assignments, to The Eaton Axle and Spring Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 19, 1921. Serial No. 516,318. 2 Claims. (Cl. 293—55.)



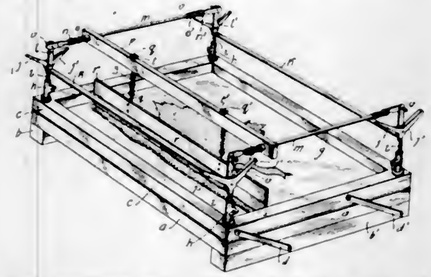
1. A buffer or bumper, comprising a flat spring bar, a supporting bracket for each end of said bar having a long straight arm and a short downwardly extending arm connected by a circular loop portion, said loop portion being offset in respect to said long arm to permit lateral spring adjustment of said arm in fitting the bracket to vehicle frame ends of different shapes and widths, and said bar bearing against the front side of each circular loop portion, a U-bolt for each bracket having a round straight portion engaged with the inner rounded side of the loop portion and straight leg portions extending forwardly above and below said bar, a plate engaged with the front side of said bar and connected with the legs of the U-bolt at the front side of each bracket, and locking nuts connected with said legs at the front side of each plate, in combination with means adapted to fasten the arms of each bracket to the frame of an automobile.

1,470,961. POWER TRANSMISSION. JOHN L. CREVELING, Auburn, N. Y. Filed Oct. 26, 1914. Serial No. 868,665. 7 Claims. (Cl. 74—59.)

7. The combination with a motor having a driving shaft and a shaft to be driven thereby, of means for operatively connecting said shafts comprehending a plurality of concentric gears surrounding the driven shaft, a plurality of concentric magnetic clutches surrounding the driven shaft and connected to revolve therewith, each of said clutches registering with one of said concentric gears and adapted when energized to cause a power transmitting connection therewith, and when deenergized to be freely movable with respect thereto, and means for selectively energizing said clutches.

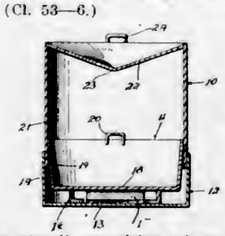


1,470,962. STENCILING MACHINE. CARL WALLACE DIBBLE and MARION PHILLIPS, Portland, Oreg., assignors of one-fifth to J. T. Loofbourow, one-fifth to J. G. Meeks, and one-fifth to E. D. Howe. Filed July 21, 1921. Serial No. 486,646. 15 Claims. (Cl. 101—126.)



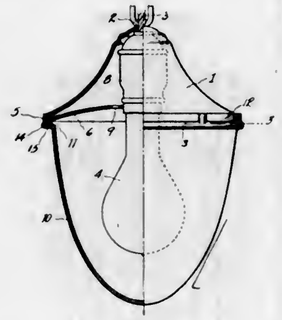
1. A stenciling device comprising, a base, means for stretching a stencil over the base, a squeegee, means for carrying said squeegee over the stencil, and means cooperating with said carrying-means adapted to jump the squeegee forward over a section of said stencil at the end of the movement of said carrying means.

1,470,963. COOKING UTENSIL. DONALD D. DORRANCE, Scotts, Mich. Filed May 1, 1923. Serial No. 635,947. 5 Claims. (Cl. 53—6.)



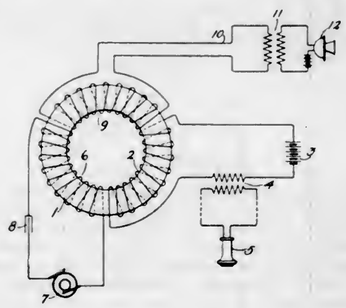
1. A cooking utensil comprising a base, a cover, and a pan; the corresponding side walls of said base and cover being parallel and of similar contour and adapted to have telescopic engagement for adjusting the height of the utensil, said pan fitting snugly within said cover.

1,470,964. LIGHTING FIXTURE. CHARLES C. DOSE, Seattle, Wash., assignor to Perfecilite Manufacturing Co. Filed Oct. 20, 1920. Serial No. 418,224. 1 Claim. (Cl. 240—78.)



A lighting fixture of the character described comprising a somewhat conically shaped cover portion provided with a downturned peripheral flange having bosses pressed outwardly therefrom, a translucent bowl provided with an out-turned flange at its periphery and adapted to fit snugly within the cover flange, a perforated reflector plate disposed within the cover and supported upon the edge of said bowl, a lamp suspended within said bowl and anchored centrally by said reflector plate, and a locking ring fitted about the cover flange, having bayonet slots for receiving bosses of the cover flange to removably secure the ring to the flange and having an in-turned rim at its lower edge whereupon said bowl flange rests to support the bowl from the cover; said boss receiving channels in said ring having yieldable means secured therein against which said bosses may engage to frictionally and yieldingly retain the ring in locking relation.

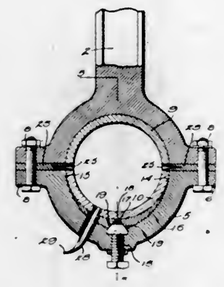
1,470,965. TRANSMISSION SYSTEM. GUSTAF W. ELMEN, Leonia, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 2, 1918. Serial No. 247,900. 14 Claims. (Cl. 179—171.)



1. The method which comprises producing a magnetic flux in a magnetic medium, impressing a high frequency flux on said medium and varying the permeability of the magnetic medium for said first-mentioned flux in accordance with signals.

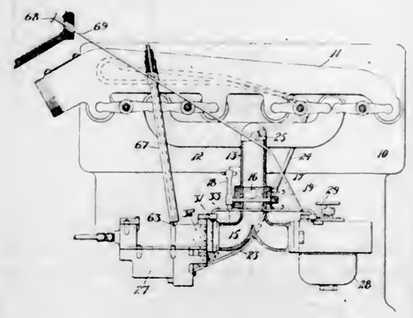
14. A method which comprises superposing a constant flux, an ultra-audio frequency flux and a flux varying in accordance with the signal; and transmitting to a distant station in audio-frequency wave form, currents derived from the last-mentioned flux.

1,470,966. BEARING. SELMER ERDAHL and HENRY ERDAHL, Britton, S. Dak. Filed Apr. 8, 1922. Serial No. 550,833. 2 Claims. (Cl. 64—55.)



1. An adjustable bearing comprising a pair of complementary members each having a substantially semicircular bearing member mounted therein, one of said complementary members forming a bearing cap, shims mounted between said complementary members and having their inner edges arranged between and contacting with the longitudinal edges of said bearing members, the inner edges of said shims being split longitudinally, and means for adjusting the bearing member of the bearing cap.

1,470,967. FUEL-VAPORIZING SYSTEM. LAURENCE E. FRENCH, Sebastapol, Calif. Filed Apr. 22, 1919. Serial No. 291,844. 14 Claims. (Cl. 123—127.)



1. In combination with an internal combustion engine having intake and exhaust manifolds, heavy and light fuel carburetors, connecting with said exhaust manifold and adapted to be alternately placed in communication therewith, an auxiliary fuel passageway leading from one of the carburetors to the intake manifold and a master throttle adapted to control the flow of fuel from either of the carburetors to the engine and regulate the flow of fuel through the auxiliary passageway.

1,470,968. PROCESS OF PRODUCING FERTILIZER. STAPLETON D. GOOCH, Plant City, Fla. Filed Aug. 19, 1921. Serial No. 493,714. 4 Claims. (Cl. 71—7.)

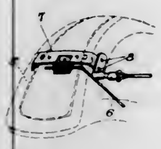
1. The method of producing calcium acid phosphate, which consists in directly subjecting finely powdered phosphatic material to the direct action of phosphorous pentoxide and in agitating the phosphatic material in the presence of said gas.

1,470,969. METHOD FOR MAKING ARTIFICIAL FLOWERS. MARY BEALE GREENE, New Orleans, La. Filed Oct. 26, 1921. Serial No. 510,427. 4 Claims. (Cl. 41—13.)



1. The method of forming petals for artificial flowers which consists in fashioning a piece of white fabric of two thicknesses into the shape of a petal being copied, then working into said fabric a water coloring paint until the color and tint of the petal is reproduced, and then shaping the fabric while wet with the paint to correspond to the shape of the petal desired.

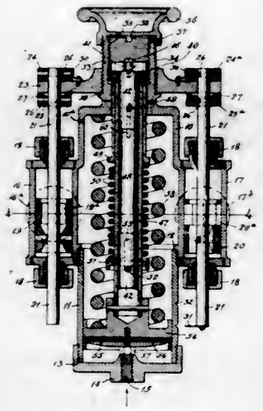
1,470,970. FRONT-FENDER BRACE. ANGUS R. GROFF, Birmingham, Ala. Filed Oct. 17, 1921. Serial No. 508,284. 2 Claims. (Cl. 280—153.)



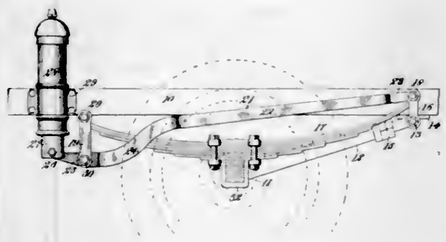
1. The combination with the front fenders of an automobile having cross braces secured transversely of the under sides thereof and provided with apertures at their inner ends adapted to receive rivets for attachment to said braces to the depending aprons of the fenders, of angular bracket members having openings in one of the leg portions thereof adapted to be aligned with the usual rivet openings in the said fender aprons and the adjacent ends of said cross braces after the rivets have been removed therefrom, means adapted to be engaged through the said aligned openings for securing said bracket members and the adjacent ends of the said cross braces in position, and a brace rod extending between said bracket members and detachably secured at its ends to the free ends of the other of the leg portions thereof.

1,470,971. AUTOMATIC REGULATOR. ERNEST GROSSENBACHER, Fajardo, Porto Rico. Filed Oct. 19, 1920. Serial No. 418,119. 6 Claims. (Cl. 137—144.)

1. A regulator comprising a body having a plurality of inlets and a plurality of cooperating outlets, valves controlling said inlets and outlets, said valves being movable in axial directions and being also rotatable about their axes, actuating mechanism for operating said valves in axial directions and including means whereby the initial positions of said valves relatively to said inlets and outlets is varied and means whereby said valves are rotatably adjusted to vary the effective areas of said inlets and outlets.



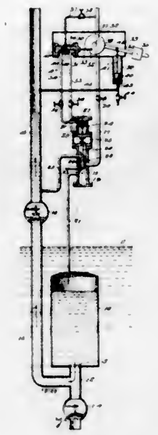
1,470,972. VEHICLE FRAME SUPSENSION. LUCIEN R. GRUSS, San Francisco, Calif., assignor to Pneumatic Cushion Co., San Francisco, Calif., a Corporation of Arizona. Filed Aug. 27, 1919. Serial No. 320,228. 6 Claims. (Cl. 267—18.)



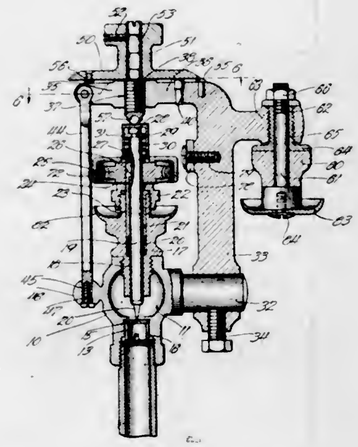
1. In combination with the frame and axle of a vehicle, a leaf spring carried by said axle, shackle links connecting the forward end of said leaf spring with the main frame, an equalizer bar pivotally connected to the forward end of the leaf spring at the point of its connection with the shackle links, a telescopic cushion device carried by the main frame and to which the rear end of the equalizer bar is pivotally connected, and linkage connecting the rear end of the leaf spring with the equalizer bar at a point intermediate its end.

1,470,973. FLUID-PRESSURE LIQUID-PUMPING DEVICE. WILLIAM JAMES HANCOCK, Idaho Springs, Colo. Filed Feb. 21, 1922. Serial No. 538,331. 7 Claims. (Cl. 103—231.)

1. In a pumping device operated by a compressed fluid, a pressure chamber, a discharge pipe connected with the pressure chamber, valve means for controlling the liquid flow associated with said pressure chamber and discharge pipe, and automatically controlled means for alternately directing the compressed fluid into the pressure chamber and discharge pipe to give the pumping action.

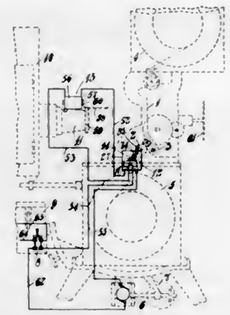


1,470,974. VALVE. FRANKLIN HARDINGE, Chicago, Ill., assignor to Hardinge Brothers, Inc., Chicago, Ill., a Corporation of Illinois. Filed May 16, 1921. Serial No. 470,212. 8 Claims. (Cl. 137—139.)



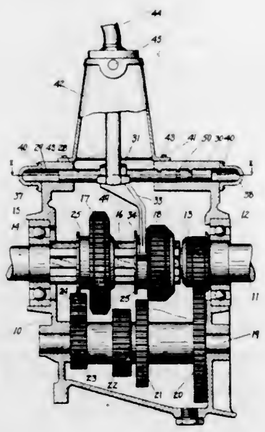
7. A valve comprising a body member having a valve chamber formed therein, the walls of which are provided with inlet and outlet ports, a valve stem rotatably mounted in a wall of said valve chamber and provided at its inner end with a valve for coacting with said outlet port, means for continually rotating said valve stem without changing the adjustment of said valve relative to said outlet port, a screw threaded member for urging said valve stem toward said outlet port, and an index dial upon said screw threaded member.

1,470,975. MOVING-PICTURE-FILM PROTECTOR. HARRY E. HARBAUGH, CHARLES FRANK BUQUO, and GEORGE F. SPAETH, Cincinnati, Ohio; said Buquo and said Spaeth assignors to said Harbaugh. Filed Apr. 24, 1919. Serial No. 292,347. 17 Claims. (Cl. 88—17.)



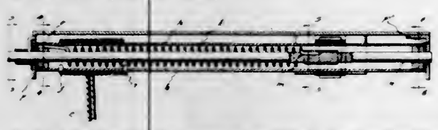
1. The combination with a moving-picture-machine loop-setter, of an electric switch, and controlling operative engaging means, engaging with said loop-setter and normally spaced from operative engagement with said switch during normal operations of said loop-setter, but operatively engaged with said switch, under actuation by abnormal operation of said loop-setter, to operate said switch.

1,470,976. CHANGE-SPEED GEARING FOR AUTOMOBILES. WILLIAM F. HARRINGTON, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed June 9, 1919. Serial No. 302,755. 10 Claims. (Cl. 74—39.)



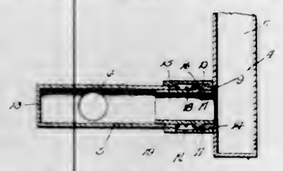
1. In a change speed gearing, the combination of a plurality of driving gears, a driven shaft, a plurality of gears on said driven shaft, means to selectively engage each of the gears carried by the driven shaft with one or more of the driving gears, and detents for preventing movement of either of the gears on the driven shaft from its neutral position except when the other gear mounted on the driven shaft is in its neutral position, a guide for said detents, said detents comprising mating sections provided with offset portions to increase the bearing surface with said guide and prevent binding of said sections.

1,470,977. TORSION-SPRING TENSION REGULATOR. ERNEST E. HEINTZ, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 20, 1922. Serial No. 602,300. 3 Claims. (Cl. 16—198.)



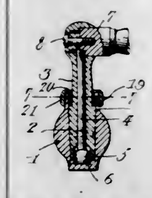
2. In a device for the purpose specified, the combination of a torsion spring and an anchor for one end thereof mounted to turn when released, and a coiled spring arranged to grip said anchor when turning effort is exercised on the anchor by the torsion spring, but permitting turning movement exercised directly on the anchor to increase the tension of the coiled spring.

1,470,978. POURING SPOUT FOR VESSELS. WILLIAM C. HELCHER, Akron, Ohio. Filed June 12, 1922. Serial No. 567,795. 3 Claims. (Cl. 221—26.)



1. A discharge spout for measuring vessels and the like comprising, in combination with the vessel, a fixed tubular member in communication with the vessel, a spout having a lateral branch provided with a seating surface, means connecting the said branch of the spout with the said tubular member for rotative movement, and a nipple arranged within the said member and spout branch and having a seating portion contacting the seating surface of the branch.

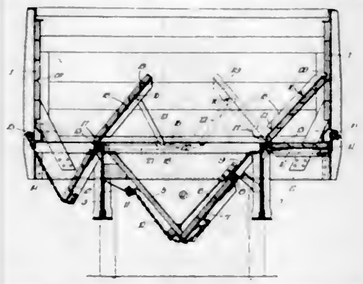
1,470,979. GAS COCK. RODOLPHE S. HILAIRE, Montreal, Quebec, Canada. Filed May 13, 1922. Serial No. 560,810. 3 Claims. (Cl. 251—165.)



1. A gas cock comprising a body having a notch formed in the bottom thereof, a valve plug rotatably mounted in said body, a handle rotatably mounted in the plug, a locking pin adapted for reciprocation within the plug and having its lower end normally seated in the notch, and means for lifting said pin from the notch upon the rotation of the handle.

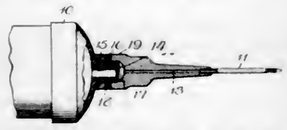
1,470,980. DUMP-CAR CONSTRUCTION. WILLIAM J. HOSCEIT and DAVID HINDAHL, Chicago, Ill., assignors to Rodger Ballast Car Company, Chicago, Ill., a Corporation of Maine. Filed Dec. 11, 1922. Serial No. 606,042. 5 Claims. (Cl. 105—243.)

1. Dump car construction, comprising center hopper means, side doors located laterally of said hopper means, said side doors having a substantially horizontal closed position and adapted to swing downwardly for dumping purposes, and supplementary doors pivoted along axes longitudinally of the car, said supplementary doors being adapted to occupy, selectively, horizontal positions



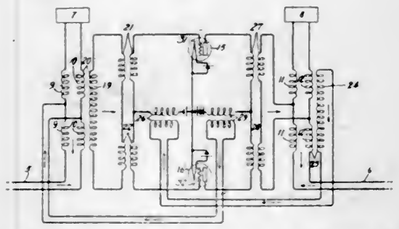
for forming a substantially flat bottom, angular positions forming an open mouth for said hopper means and angular positions for directing dumpable material to said side doors.

1,470,981. HYPODERMIC-NEEDLE BASE. PERRY E. INGALLS, Chicago, Ill. Filed Nov. 20, 1920. Serial No. 425,355. 2 Claims. (Cl. 128—221.)



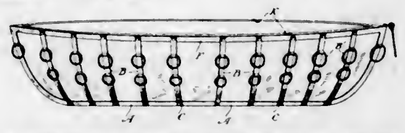
1. A syringe barrel, a needle base, and a male and female threaded joint therebetween, the extremity of the female element being constructed of material softer than the remaining portion of the element and also softer than the proximate portion of the other element, the extremity of the male element projecting into the female element to a point beyond the softer portion of the latter, said softer material being upset against the base of the other element remote from the open extremity of the latter to form a fluid tight joint when the two elements are forced together.

1,470,982. REPEATER CIRCUITS. JACOB S. JAMMER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 29, 1920. Serial No. 420,478. 8 Claims. (Cl. 179—170.)



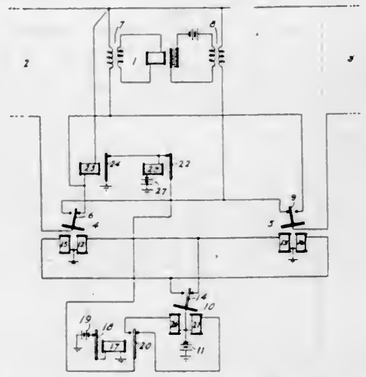
1. In an electric system, a plurality of repeaters having input and output circuits, said input circuits having portions in common and other portions individual to each repeater, means for impressing signals upon the common portion of said input circuits, means for impressing other signals upon the individual portions of said input circuits, and connections for selectively leading-off in different electrical paths said first mentioned and said second mentioned signals from said output circuits.

1,470,983. LIFEBOAT. NELLIE F. JAYNE, Brooklyn, N. Y. Filed Jan. 30, 1923. Serial No. 615,852. 3 Claims. (Cl. 9—3.)



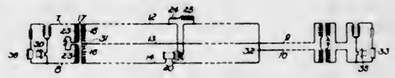
1. A skeleton life boat frame adapted to conform to and fit over a life boat and comprising independently movable ribs normally spring pressed outwardly and a keel to which the ribs are hinged.

1,470,984. SIGNALING CIRCUITS. EDGAR D. JOHNSON, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 7, 1918. Serial No. 215,930. 6 Claims. (Cl. 179—170.)



1. A repeater system comprising two lines, a repeater therefor, means for reversing the connections of said repeater to said lines, means controlling said reversing means, said controlling means operating continually during repeating, and means responsive to current impressed on said lines for preventing said continually operating means from operating said reversing means.

1,470,985. SIGNALING SYSTEM. KENNETH S. JOHNSON, Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 5, 1919. Serial No. 321,888. 16 Claims. (Cl. 179—170.)



1. In a signaling system, two substations, a line circuit therebetween comprising two outside branches and a central conducting branch, a line circuit comprising two branches between each of said substations and the respective ends of said first line circuit, means for impressing signal from one of said substations through one of said two-branch lines upon said three-branch line with the two outside branches acting in parallel, the signaling currents returning over the remaining third branch, means for impressing signals from the other of said substations through its associated two-branch line upon said three-branch line with said outside branches acting serially to the signaling currents, and means included in said three-branch line for amplifying the signals received from one of said substations.

1,470,986. MEANS AND METHOD FOR SIGNALING. KENNETH S. JOHNSON, Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 5, 1919. Serial No. 321,889. 9 Claims. (Cl. 179—78.)



1. In a two-way signaling system, a line circuit comprising two outside branches and a central branch, a transmitting device and a receiving device associated with said line circuit at each end thereof, an impedance element in each of said branches, said impedance elements having such values that signaling current flows through only two of said branches when signals are being transmitted in one direction and flows through all three branches when signals are being transmitted in the opposite direction, and a receiving device coupled to that branch through which no current flows for transmission in one direction.

1,470,987. GARMENT POCKET. JOSEPH KAUFMANN, Pittsburgh, Pa. Filed Sept. 18, 1922. Serial No. 588,816. 1 Claim. (Cl. 2—15.)



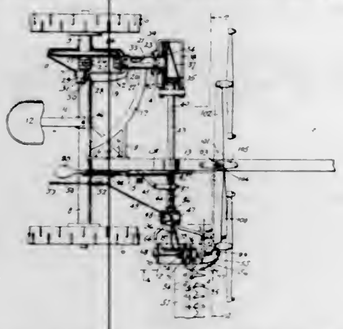
A garment pocket comprising a front wall, a rear wall having its upper terminal secured to said front wall, front and rear parallel partitions arranged between and forming in connection with said walls, front, intermediate and rear compartments, said rear partition of greater length than and projecting above said front partition and having it upper end secured between said walls, said front wall extending above and over the upper end of the front partition, the lower end and side edges of said rear wall and partitions secured to said front wall, interengaging means carried by the front wall and front partition for detachably connecting the upper end of said partition to the front wall, said front wall having a transverse opening positioned below said means forming an entrance for the pocket and said rear partition having a lengthwise slit disposed medially thereof to provide an entrance for the rear compartment.

1,470,988. SPACING MEMBER USED IN FORMING BIFOCAL LENSES. MAX ALFRED LAABS, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed May 31, 1921. Serial No. 473,841. 3 Claims. (Cl. 49—14.)



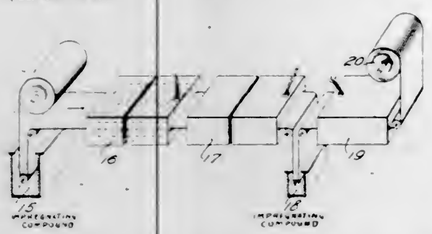
3. A spacing member adapted to be secured on the face of the major portion of a bifocal blank having a base portion to rest on the face of the blank, an upright for engaging the edge of a segment of a bifocal blank and a minute shoulder portion for supporting the segment in raised position.

1,470,989. MOWER. CARL LORENSON, Davenport, Iowa, assignor to Lorenson Harvester Company, Le Claire, Iowa. Filed Nov. 26, 1918, Serial No. 264,193. Renewed Mar. 2, 1923. 10 Claims. (Cl. 56—276.)



2. An apparatus for trimming hedges and mowing lawns, comprising a cutter mechanism, means for supporting the said mechanism for pivotal motion through an angle of 180 degrees about an axis at right angle to the cutting edge and means for operating the cutter mechanism in any angular position.

1,470,990. PROCESS OF MANUFACTURING INSULATING MATERIAL. FRANCIS F. LUCAS, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 3, 1921. Serial No. 504,833. 5 Claims. (Cl. 91—70.)

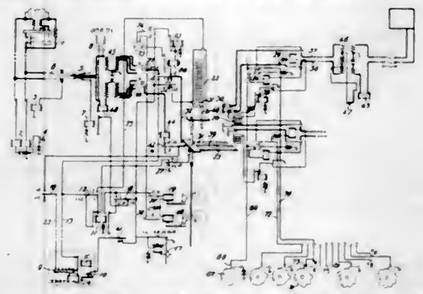


2. The method of treating fibrous or cellular material which consists in treating the material to increase its absorptive properties, impregnating the material with a phenolic resin so that all individual fibres or cells are thoroughly coated and rich in resin content, partially curing the resin so that its consistency when later subjected to heat and pressure during the final curing will be approximately equal to that of the material, and finally curing by the application of heat and pressure.

5. The method of forming a fibrous insulating material which comprises impregnating a fibrous material with a phenolic condensation product, curing the condensation product to such a consistency that upon the subsequent application of pressure to the mass the condensation product will not be extruded, and finally curing the condensation product by the application of heat and pressure.

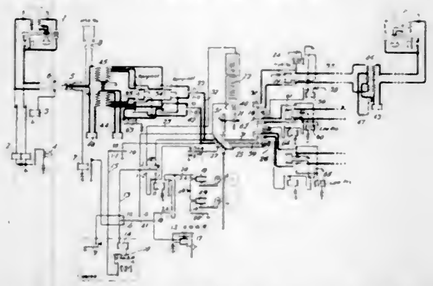
1,470,991. TELEPHONE-EXCHANGE SYSTEM. ALBEN E. LUNDELL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 8, 1920. Serial No. 408,852. 6 Claims. (Cl. 179—27.)

1. In a telephone exchange system, incoming lines, outgoing lines, a link circuit to be used in establishing connection between an incoming line and an outgoing line, a repeating coil associated with said link circuit, said repeating coil comprising a primary winding and a secondary winding, a switching device for varying the ratio of the number of turns of said secondary winding



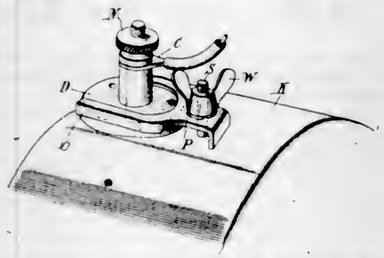
to the number of turns of said primary winding, and means associated with said outgoing lines to supply impulses to control the operation of said switching device.

1,470,992. TELEPHONE-EXCHANGE SYSTEM. ALBEN E. LUNDELL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 8, 1920. Serial No. 408,851. 12 Claims. (Cl. 179—27.)



1. In a telephone exchange system, incoming lines, outgoing lines, a link circuit to be used in establishing a connection between an incoming line and an outgoing line, a repeating coil associated with said link circuit, said repeating coil comprising a primary winding and a secondary winding, means for varying the ratio of the number of turns of said secondary winding to the number of turns of said primary winding, and means associated with said outgoing lines to cause the operation of said ratio varying means.

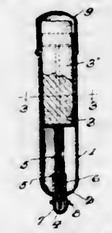
1,470,993. HOLDER FOR MAGNETO CONTACTS. LAWSON AARON LOUNDAGIN, Crane, Oreg. Filed Dec. 19, 1919. Serial No. 346,199. 2 Claims. (Cl. 173—324.)



1. In combination, a crank case, a magneto contact including a bushing extending through the crank case, a disk carried by said bushing exteriorly of the crank case,

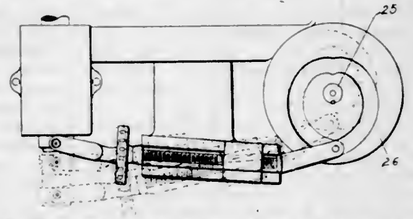
a stud secured within the crank case, a plate mounted on said stud and engageable with said disk, said plate being of Y-shape formation, depending flanges formed on said plate and engageable with the periphery of said disk, a spacing lip at one end of the plate, and a nut threadedly mounted on said stud and engageable with said plate for forcing the latter into engagement with said disk.

1,470,994. TOILET ARTICLE. JAMES BRUCE MASON, Jr., Nashville, Tenn. Filed July 17, 1922. Serial No. 575,479. 5 Claims. (Cl. 206—56.)



1. A device of the character described comprising a tubular casing open at one end and closed at the other, a cup reciprocable within the casing and being disposed therein with its open end outermost, a screw extending from the closed end of the cup within the casing in axial alinement with the cup, a rotatable sleeve extending through the closed end of the casing and threadedly engaging the screw, means connected with the sleeve exteriorly of the casing for rotating the latter and for preventing longitudinal movement of the sleeve in one direction relatively to the casing, whereby rotation of the sleeve will occasion longitudinal movement of the screw relatively to the casing.

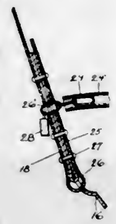
1,470,995. EDGING MACHINE. ALBERT E. MAYNARD and WILLIAM A. GUNNING, Southbridge, Mass., assignors to American Optical Company, a Voluntary Association of Massachusetts. Filed Nov. 26, 1919. Serial No. 340,733. 6 Claims. (Cl. 51—51.)



4. A lens edging machine including a frame having a driven stone shaft journaled therein, a second shaft parallel with the stone shaft and driven thereby, a third shaft disposed at right angles to the first two shafts and driven from the second, said shaft projecting both forwardly and rearwardly of the other two shafts a lens carriage having driving mechanism operable from the forward portion of said third shaft, and stone reciprocating mechanism operated by the rearwardly projecting portion of said shaft.

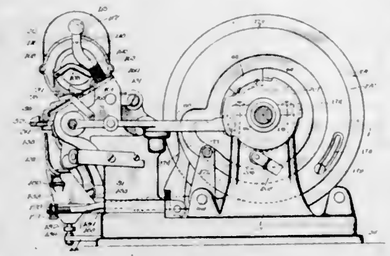
1,470,996. TIRE OR WHEEL CARRIER. CHARLES W. MCKINLEY, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 14, 1918. Serial No. 262,509. 6 Claims. (Cl. 224—29.)

1. In a device of the class described comprising in combination, a basket for supporting spare tires or wheels, means for holding spare tires or wheels in the basket and preventing their removal by an unauthorized person, said means comprising a strap having a loop, a metal reinforcing member positioned within the loop formed in



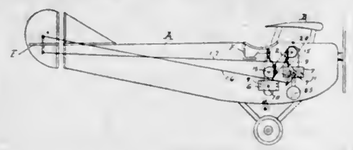
the strap and secured thereto, the loop and reinforcing member being provided with aligned slots, and a cable secured at one end to the basket the other end of the cable being adapted to be inserted through said slots.

1,470,997. LEATHER-STITCHING MACHINE. CHARLES F. MILLER, Chicago, Ill., assignor to Chicago Shoe Machinery Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 5, 1921. Serial No. 450,036. 8 Claims. (Cl. 112—38.)



1. In a leather stitching machine, the combination with a hooked needle operating from the upper side of the work, a thread measuring finger disposed below the work, a thread thrower disposed below the work and mounted to swing about a vertical axis and have vertical bodily movement, means for intermittently swinging said thread thrower and for simultaneously raising and lowering the same whereby the thread will be engaged and retained by the measuring finger and for subsequently moving the thread thrower to position the thread in a position to be engaged by the needle.

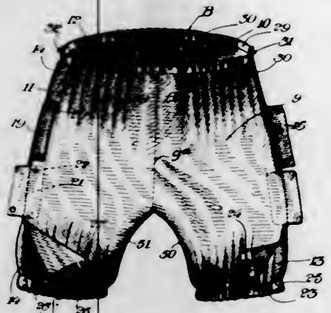
1,470,998. AEROPLANE CONTROL. ROBERT ELVYN MITTON, Salt Lake City, Utah, assignor to Mitton-Braley Aeroplane Control Company, Salt Lake City, Utah, a Corporation of Utah. Filed Aug. 14, 1922. Serial No. 581,747. 3 Claims. (Cl. 244—29.)



3. In an aeroplane control of the character described, comprising a hand control lever, a connecting rod, a pendulum lever and a universal support for each of said levers, said connecting rod for connecting said hand control lever

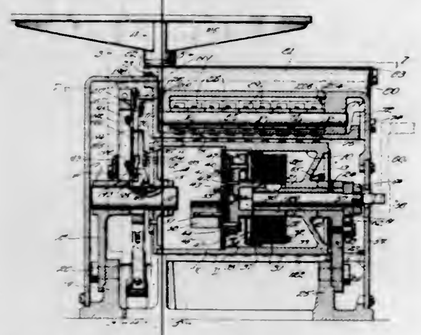
and pendulum lever together, shafts on said universal supports resting in bearings secured to the sides of the aeroplane, horns on one set of said shafts having the elevator control wires attached thereto, aileron control wires attached to said pendulum lever and means for securing said wires to said pendulum lever.

1,470,999. BLOOMERS. ALICE MORGANSTERN, New York, N. Y. Filed Apr. 3, 1923. Serial No. 629,541. 7 Claims. (Cl. 2—122.)



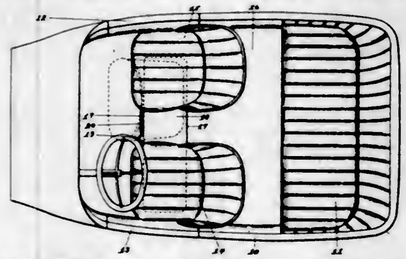
1. As an article of manufacture, a pair of bloomers comprising a body portion terminating in an elastic waist band and having a pair of leg members terminating in elastic knee bands, said body portion and a leg member having a vertical opening at the outer side extending through the elastic waist band and the elastic knee band, and fastening means for releasably connecting the free ends of the elastic waist band and also the free ends of said elastic knee band said leg member having oppositely extending closure portions foldable over upon opposite edges of said opening, and alternately securable upon opposite sides of said opening on the exterior of the garment.

1,471,000. COMPUTING MECHANISM. FRANK B. MULFORD, St. Louis, Mo., and JOHN DAVID DICKINSON, Chicago, Ill.; said Dickinson assignor to said Mulford. Filed Feb. 19, 1921. Serial No. 446,517. 16 Claims. (Cl. 235—58.)



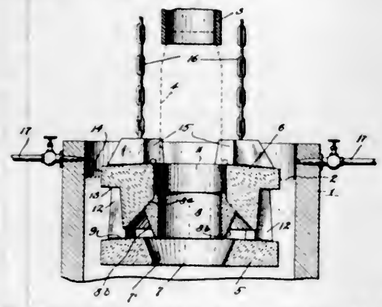
8. The combination with a drum having a row of type figures arranged in ascending values corresponding to the postal charges for a given zone, of means for guiding a paper strip into position to receive an impression from said type figures, means actuated by, and proportionately to, the weight of an object for determining the relative positions of said drum and guiding means, and power means for rotating said guiding means and said drum relatively to each other in a continuous direction.

1,471,001. SEAT CONSTRUCTION. SAMUEL W. NICHOLSON, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Aug. 8, 1917. Serial No. 185,064. 6 Claims. (Cl. 296—65.)



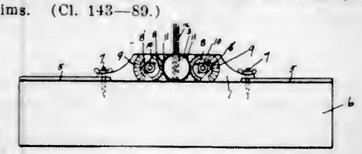
1. In a vehicle body, in combination, a driver's seat, a sliding front seat in line with the driver's seat and normally spaced therefrom, said sliding seat being slidable towards and from the driver's seat to provide a passage for passengers to the rear of the vehicle between said slidable seat and the side wall of the vehicle body.

1,471,002. GLASS MACHINERY. ANDY PARYS, Mount Vernon, Ohio. Filed Feb. 25, 1921. Serial No. 447,793. 9 Claims. (Cl. 49—61.)



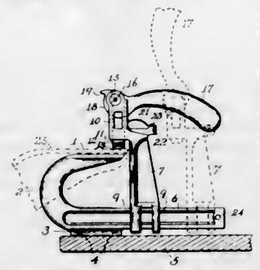
7. In glass working apparatus, in combination, a glass container, burners positioned above the level of the glass within said container, a pair of separable roll forming sections arranged to be positioned within said container, said sections being provided with registering openings, the opening in the upper section having its lower end relatively enlarged with respect to the upper end of the opening provided in the lower section, means for maintaining said sections in positions of relative registration, and means cooperative with the upper of said sections for raising the latter to a position permitting the sides thereof to be subjected to the heat of said burners when said sections assume an elevated position, said burners being further positioned to register with the upper surface of said upper section when the latter is in its lowered position.

1,471,003. MITER BOX. LEE F. PERLICK, Los Angeles, Calif. Filed Jan. 20, 1922. Serial No. 530,659. 4 Claims. (Cl. 143—89.)



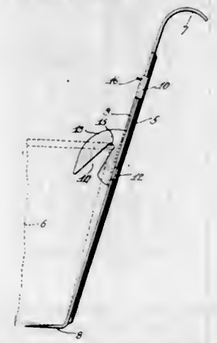
1. A miter box of the character shown and described comprising a body having an open vertical center and two detachable side wings, a slotted tubular member detachably and rotatably mounted in the open center of said body, guiding means to receive a saw slidably mounted in said slotted tubular member, a segmental gear on said body, a gear ring portion on said tubular member positioned to mesh with said segmental gear and means for locking said segmental gear, whereby said tubular member can be turned and held in different adjusted positions, substantially as described.

1,471,004. TOE-PLATE FASTENER. JAMES C. REID, Cleveland, and WILLIAM C. TAYLOR, East Cleveland, Ohio. Filed June 2, 1922. Serial No. 565,356. 7 Claims. (Cl. 1—21.)



1. A toe-plate fastener for shoes comprising a fixed guidebar merged at one end in a semicircular stanchion supporting a last, and a pressing device slidably embracing said guidebar and having a lever-operated ram adapted to be manipulated to overhang and oppose said last.

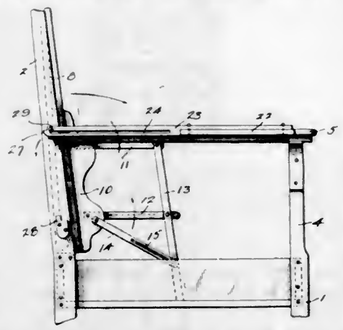
1,471,005. LIFTER FOR CULINARY UTENSILS. HENRY C. SAMPLE, Chicago, Ill. Filed Apr. 28, 1922. Serial No. 557,050. 2 Claims. (Cl. 294—34.)



1. In a device of the class described, the combination with an elongated handle having at one of its ends a forwardly extended member adapted for engagement with the bottom of a vessel, of a plate mounted on the handle for free longitudinal movement with respect thereto and having its lower portion widened and provided at each end of said widened part with a forwardly extended flange each of which has extended from its lower portion an upwardly tapered and outwardly inclined slot whereby said slotted flanges may be caused to engage the upper edge or rim of a vessel or utensil by gravity.

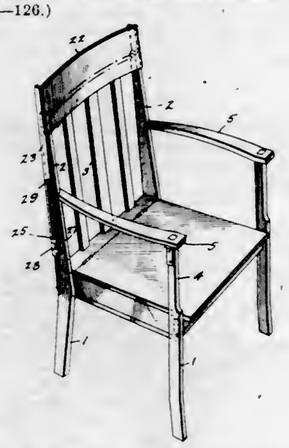
1,471,006. CHAIR. ROBERT SCHMIDT, Boston, Mass. Filed Dec. 31, 1921. Serial No. 526,169. 2 Claims. (Cl. 155—132.)

1. In combination, a chair including a box formed with a bottom and side portions and a hingedly mounted top for forming a seat and closure for the box, a high chair mechanism including an auxiliary seat pivotally mounted on the first mentioned seat adjacent its hinged end, a pair of rods mounted on the first mentioned seat adjacent its free end, a plurality of supporting rods pivotally mounted to the ends of the first mentioned rods and to the ends of the auxiliary seat intermediate their ends, the ends of said



supporting rods adapted to be rested on the bottom of said box when the auxiliary seat is in an operative position, bolts on the supporting rods, and brace rods provided with elongated slots for engaging the bolts and pivotally mounted at their ends adjacent the hinged end of the first mentioned seat.

1,471,007. CHAIR. ROBERT SCHMIDT, Boston, Mass. Filed Jan. 4, 1923. Serial No. 610,632. 1 Claim. (Cl. 155—126.)

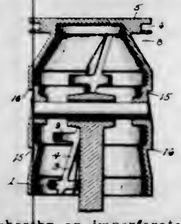


In a chair including arm rests, a shelf, a pair of arms extending from the ends of said shelf and provided with longitudinally extending slots, extensions formed on the ends of said arms, pins on the chair for engaging the slots, stops disposed on the chair below the pins for engagement by the extensions, whereby the shelf may be held in extension of the back rest of the chair, the slots in said arms being provided with offset portions so as to hold said shelf in a forward position mounted on said arm rests when the pins are in engagement with the offsets.

1,471,008. PISTON. HENRY SCHMITT, Detroit, Mich. Filed Oct. 6, 1919. Serial No. 328,807. 2 Claims. (Cl. 74—108.)

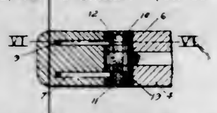
1. A piston including a cylindrical wall having an annular exterior groove near its upper end of greater depth than the thickness of said wall and formed with a

portion extending inwardly from the wall and provided with a longitudinal groove opening through the outer face of the wall and opening at its upper end into said



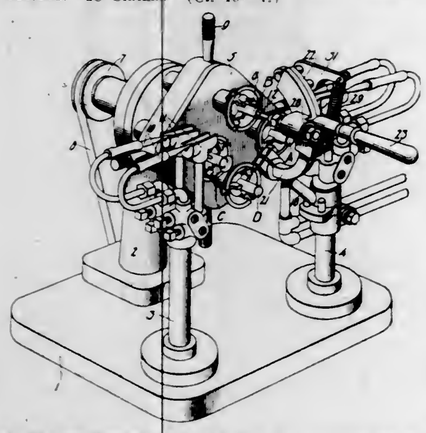
annular groove, whereby an imperforate cylindrical wall is provided which may yield, due to the yielding of said walls of the longitudinal groove.

1,471,009. OPHTHALMIC MOUNTING. ELMER L. SCHUMACHER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Apr. 10, 1922. Serial No. 551,233. 4 Claims. (Cl. 88—53.)



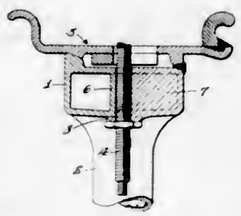
1. A mounting of the character described including a rearwardly extending composition end piece, spaced bearing members, nonmetallic bushings embracing portions of said bearing members for supporting the same at the end of the end pieces and a composition temple having a shoulder engaging the end piece and having a projecting eye pivotally arranged between said bearing members.

1,471,010. SPINNING TOOL AND MACHINE. JOHN N. SELVIG, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 11, 1919. Serial No. 344,242. 18 Claims. (Cl. 49—7.)



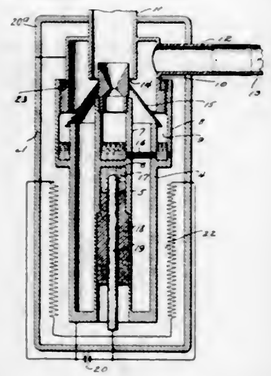
8. In a machine for flaring tubes, the combination with a rotary work holder, of an arcuate guide, a carriage slidable thereon and having a handle, a substantially radially disposed tool rotatable in the carriage and normally withdrawn from the work holder, a swinging arm supporting the guide to swing the tool endwise into or out of a work-piece in the holder, and springs acting upon the arm and guide, respectively, tending to move the tool to the said normal position.

1,471,011. VEHICLE WHEEL. BURNS LYMAN SMITH, Syracuse, N. Y. Filed Apr. 28, 1919. Serial No. 293,190. 1 Claim. (Cl. 301—11.)



A vehicle wheel having means for supporting a pneumatic tire, the rim of the wheel being formed with a transverse slot for receiving the valve stem of the tire, the slot extending partly through the rim from one side thereof and opening through the inner and peripheral faces of the rim, and a closure for the slot comprising a block for filling or substantially fitting the slot, the block being provided with a washer encircling the valve stem, substantially as and for the purpose set forth.

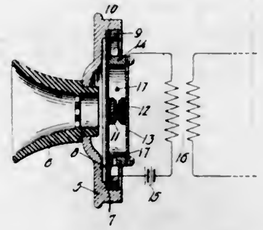
1,471,012. VACUUM PUMP. HOMER C. SNOOK, South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 16, 1921. Serial No. 477,916. 30 Claims. (Cl. 230—13.)



1. In a vacuum pump, a puddle of molten metal having two portions, one of which is maintained at a temperature substantially higher than the temperature of the other portion, means for heating each of said portions, means for introducing the gas from the vessel to be exhausted into the vapor stream emanating from the high temperature portion of the puddle, and means for causing the metal condensed from the vapor stream to return to the low temperature portion of the puddle.

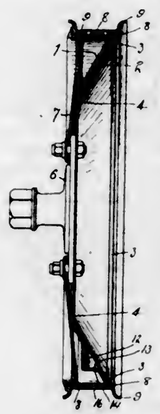
1,471,013. TRANSMITTING DEVICE. JAMES BUCKNER SPEED, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 19, 1919. Serial No. 339,217. 4 Claims. (Cl. 177—386.)

1. A sound responsive device of two substantially different particular frequencies comprising a pair of normally separated electrodes, a vibratory member supporting one of the electrodes, and a vibratory member supporting the other of the electrodes, each vibratory member and the respective electrode supported thereby forming a moving system having a chosen natural period, and the chosen natural period of one moving system being substantially different from the chosen natural period of



the other moving system; one of said vibratory members being supported by the other whereby said electrodes are brought into contact when said moving systems are vibrated at either of the two chosen natural periods.

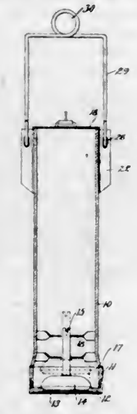
1,471,014. DISK WHEEL. JOSEPH A. STEINMETZ, Philadelphia, Pa. Filed Apr. 18, 1922. Serial No. 555,133. 4 Claims. (Cl. 301—63.)



4. An automobile wheel of the single disk type including a rim plate mounted upon the disk and forming part of the tire rim, said rim plate provided with an aperture through which a tire valve stem projects, having in combination, an annular member adapted to be positioned in the angle formed between the disk and the said rim plate, said member having its edges secured to the disk and to the rim plate, said member having a depressed portion forming a recess adapted to be occupied by the tire valve stem, and a bearing surface formed upon said member positioned adjacent to said depressed portion against which a valve stem cap may be clamped when screwed upon the valve stem.

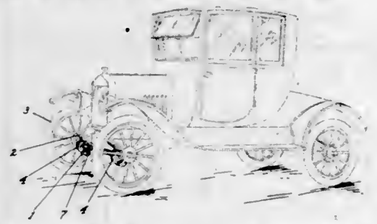
1,471,015. LIQUID SAMPLER. PHILIP W. TOMPKINS, San Francisco, Calif. Filed May 4, 1921. Serial No. 466,838. 3 Claims. (Cl. 137—18.)

1. A device of the character described comprising a receptacle having valve openings at the top and bottom thereof, valve members cooperating with said openings and adapted to open as the receptacle is lowered through a liquid and to simultaneously close when the device is brought to rest within the liquid, the unoccupied space



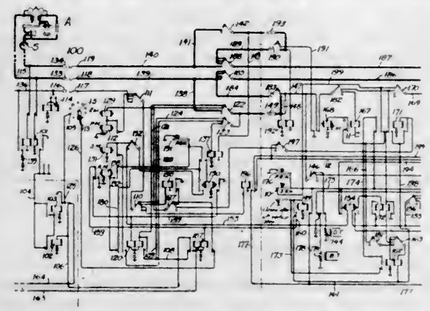
in said receptacle around the lower valve when it is open being of a cross-sectional area equal to the cross-sectional area of the bottom valve opening.

1,471,016. SAFETY DEVICE FOR AUTOMOBILES. VICTOR R. WILL, Lodi, Calif. Filed Mar. 28, 1922. Serial No. 547,378. 1 Claim. (Cl. 280—150.)



A safety device for motor vehicles comprising a pair of arms adapted to be mounted onto the front axle and depending therebelow and to the rear thereof, and rollers mounted at the lower ends of the arms.

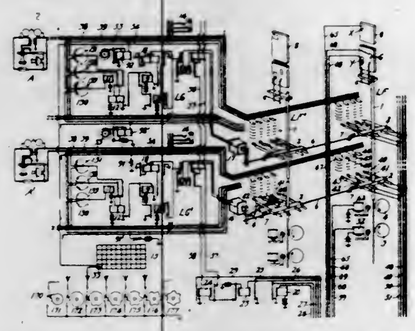
1,471,017. TELEPHONE-EXCHANGE SYSTEM. SAMUEL B. WILLIAMS, Jr., Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 25, 1919. Serial No. 340,542. 9 Claims. (Cl. 179—27.)



1. In a telephone system, a calling subscriber's line provided with a substation sender, a selective switch accessible to said line, a trunk circuit terminating in

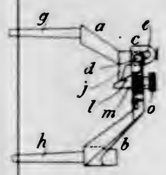
said selective switch, a non-numerical switch associated with said trunk line, subscribers' lines each provided with a substation sender terminating in said non-numerical switch, means responsive to the selective actuation of said substation sender for setting said selective switch on said trunk line, means responsive to the extension of said calling subscriber's line through said selective switch to said trunk line to actuate said non-numerical switch to further automatically extend said calling subscriber's line to one of said lines terminating in said non-numerical switch, a companion selective switch associated with said trunk line, subscribers' lines terminating in said companion selective switch, and means under control of the substation sender of the subscriber's line to which the said calling subscriber's line has been extended by said non-numerical switch to set said companion selective switch to extend said calling subscriber's line to one of said subscribers' lines terminating in said companion selective switch.

1,471,018. TELEPHONE-EXCHANGE SYSTEM. SAMUEL B. WILLIAMS, Jr., Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Original application filed Apr. 17, 1918, Serial No. 229,035. Patent No. 1,400,120, dated Dec. 13, 1921. Divided and this application filed May 14, 1921. Serial No. 469,492. 28 Claims. (Cl. 179—27.)



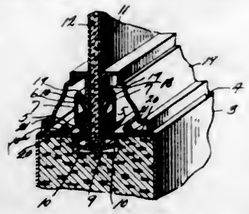
1. In a telephone system, the combination with a plurality of lines, an extension circuit for said lines, a step-by-step signal controlling device associated with said extension circuit, a commutator device associated with said lines for selectively controlling the operation of said step-by-step signal controlling device to indicate the character of said lines incident to the extension thereof, and step-by-step resetting means for restoring said signal controlling device to normal after its selective operation.

1,471,019. ANATOMICAL ARTICULATOR FOR DENTAL USE. SAMUEL HOGG WILSON, Glasgow, Scotland. Filed Aug. 31, 1922. Serial No. 585,353. 6 Claims. (Cl. 32—1.)



1. An anatomical articulator for dental use comprising an upper and a lower jaw constituting an open frame jointed together at the sides to permit of access to the teeth from the rear, pivot pins on one jaw working in inclined slots in the other jaw to form the joints, projections upon said one jaw, inclines upon said other jaw co-acting with said projections, and means to adjust said inclines independently towards and from said projections whereby differences in the condyle paths may be allowed for.

1,471,020. METALLIC DOOR. EDWARD J. ZAHNER, Laporte, Ind. Filed Dec. 7, 1921. Serial No. 520,482. 4 Claims. (Cl. 189—53.)



1. A metallic door comprising a frame formed from sheet metal, inwardly extending flanges carried by said frame and spaced from each other, channels disposed between said flanges and provided with shoulders engaging the edges of said flanges, a molding disposed within the channel and provided with a centrally disposed U-shaped portion, the marginal edges of the panel being disposed within the U-shaped portion of the molding and secured thereto, shoulders carried by the U-shaped portion of the molding, flanges carried by the channel and adapted to receive the shoulders when the panel is forced into the channel and the bottom thereof bowed outwardly, downwardly and outwardly extending members carried by the molding terminating in horizontally disposed portions engaging the inner sides of the frame, flanges carried by the horizontally disposed portions, said last named flanges engaging beads on the inner faces of the frame and forming means for forcing the outer edges of the horizontal portions into engagement with the frame.

1,471,021. IMITATION PARCHMENT BOARD AND METHOD OF MAKING THE SAME. ROBERT BEARDSLEY, Chicago, Ill. Filed Mar. 15, 1920. Serial No. 365,944. 24 Claims. (Cl. 41—21.)



1. A board of the kind described, comprising a sheet of suitable paper material impregnated with an oil throughout the entire body thereof, parts of said impregnated material being rendered translucent and other parts rendered opaque, and said translucent and opaque portions being of irregular shape and arrangement.

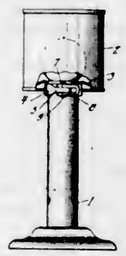
2. A method of producing imitation parchment board consisting in impregnating paper board with oil and thence withdrawing a portion of the oil in spots to produce a mottled effect.

7. A method of making imitation parchment board consisting in building up a paper board with a plurality of plies of paper, and thence embossing the same, thence successively treating the same to an application of a hot oil followed by an application of cold oil, and thence allowing to dry.

16. A method of producing ornamented imitation parchment board consisting in embossing a paper board, thence cutting to shape and ornamenting with colors, thence immersing the board in a hot bath consisting of white boiled linseed oil and white paraffin oil of substantially equal parts, at a temperature of approximately 270 degrees, thence immediately immersing the same in a cold bath of white boiled linseed oil and white paraffin oil, thence drying the board, and thereafter applying a hot body to one side of the board in spots and an absorbent body to the other side of the board to withdraw a portion of the oil and produce a mottled effect, thence applying a suitable stain provided with a carrier that will temporarily cut the oil, and thence allowing to dry.

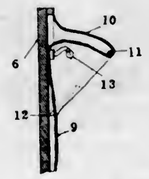
21. A method of making paper board consisting in successively treating a paper base material with an application of a hot oil followed by an application of a cold oil.

1,471,022. SHADE HOLDER. ROBERT BEARDSLEY, Chicago, Ill. Filed Sept. 17, 1921. Serial No. 501,375. 3 Claims. (Cl. 240—128.)



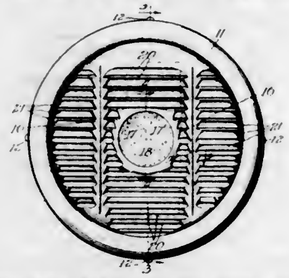
2. A shade holder comprising a flexible split band, one end of which has a pair of spaced integral ears thereat, a lever pivoted between said ears and having a slot therein, the other end of said band being nonrotatably slidable in said slot and having an integral enlargement at its tip for preventing its withdrawal therethrough, whereby the pivotal clamping movement of said lever will slidably pull said second-mentioned end so as to circumferentially overlie the first-mentioned end.

1,471,023. BURIAL CASKET. WILLIAM J. BIEN, Belleville, Ill., assignor to Belleville Casket Company, Belleville, Ill., a Corporation of Illinois. Filed Dec. 21, 1922. Serial No. 608,195. 3 Claims. (Cl. 240—2.)



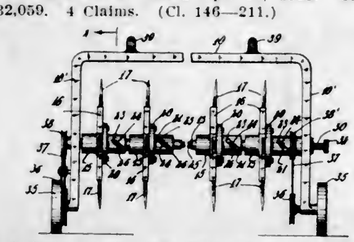
1. In a burial casket, the combination with the body of the casket, of a panel, a source of light carried by said panel, and a collapsible canopy of flexible material also carried by said panel for reflecting the rays from said source of light forwardly and downwardly.

1,471,024. ANTIGLARE GUARD FOR HEADLIGHTS. ERNEST DAVID, Maywood, Ill., assignor of one-half to Louis Wachtel, Chicago, Ill. Filed Sept. 18, 1922. Serial No. 588,750. 6 Claims. (Cl. 240—48.4.)



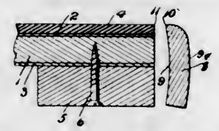
1. An anti-glare guard for head-lights, comprising a concavo-convex sheet metal disc having a series of transverse downwardly and forwardly inclined louvers and a central ring, and a flat disc of translucent material mounted in said ring.

1,471,025. CUTTING MACHINE. MICHAEL EVANICK, Tottenville, N. Y. Filed Apr. 14, 1923. Serial No. 632,059. 4 Claims. (Cl. 146—211.)



1. A device of the class described comprising a frame, a shaft journaled in said frame, a number of rotary cutters mounted on said shaft and each including radially adjustable knives, and a common adjusting means for all of said knives.

1,471,026. METHOD OF MAKING DESK OR LIKE TOPS. WILLIAM A. GUNN, Grand Rapids, Mich. Filed June 14, 1922. Serial No. 568,170. 2 Claims. (Cl. 45—31.)

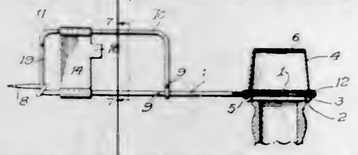


1. The method of making tops for desks or like furniture which consists in gluing a cover of flexible material to the upper side of a top bed, cutting the bed and attached cover to size, and then gluing relatively narrow border strips having slightly depressed inner sides to the sides and ends of the bed and cover, springing the strips so that their depressed inner sides are brought into contact with the sides and ends of the bed and cover and the upper edges of said strips lie flush with the upper surface of the cover, substantially as described.

1,471,027. HAND TOOL FOR OPENING BOTTLES AND CANS. ORRIN A. HANFORD, Pasadena, Calif. Filed Apr. 12, 1922. Serial No. 552,012. 3 Claims. (Cl. 7—1.)

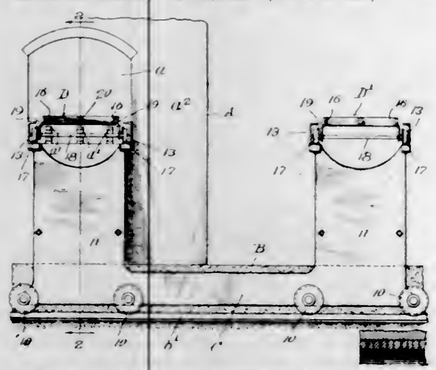
1. An implement of the character described, comprising a frame member formed of a single piece of wire with a looped outer end adapted to have a die member rigidly

secured thereto, a plurality of horizontal portions fixedly secured together, one end of said wire terminating in a sharpened point and its other end terminating with a



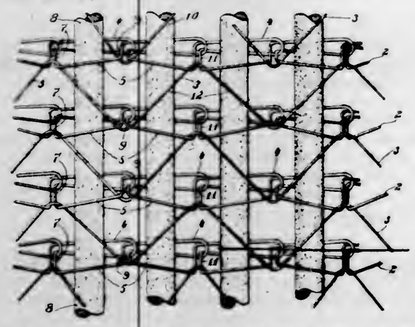
loop embracing said horizontal portions, said frame including an extended rectangular auxiliary frame formed by said wire, and a slidable member adjustably secured to said auxiliary frame.

1,471,028. CHARGING FORK FOR ENAMELING FURNACES. WILLIAM HOGENSON, Chicago, Ill., assignor to Chicago Vitreous Enamel Product Company, Cicero, Ill., a Corporation of Illinois. Filed July 17, 1922. Serial No. 575,667. 2 Claims. (Cl. 214—24.)



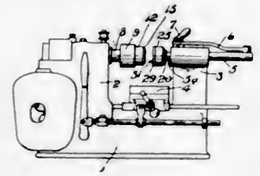
1. Charging means for enameling furnaces, comprising a traveling, wheeled carriage, two widely spaced sets of track bars secured on said carriage, and two fork frames mounted on rollers that travel on said track bars, each fork being movable independent of the other, and there being free and unobstructed loading and unloading passages between said sets of track bars, and between said fork frames, whereby either fork frame may be loaded and unloaded from either side.

1,471,029. PADDING. JAMES P. HOOPER, Ruxton, Md. Filed Mar. 22, 1922. Serial No. 545,647. 6 Claims. (Cl. 66—4.)



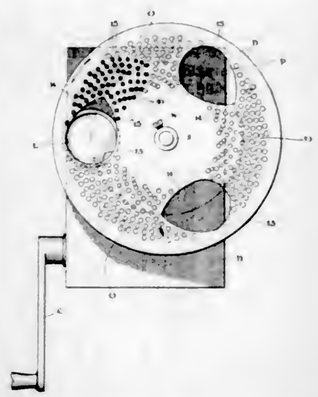
1. A padding consisting of parallel lines of soft strands and a transversely extending thread mesh holding said soft strands in position, the same consisting of parallel lines of loops extending transversely to the soft strands, the bow of each loop encircling the shank of an adjacent loop in the smae thread, the thread between the adjacent loops being passed on one side of each soft strand and the loops being on the opposite side and a thread connecting parallel lines of loops, the latter thread being passed about the shanks of loops of each line and extending back and forth from one line of loops to the other, said thread being on the opposite side of the fabric from the loops.

1,471,030. MECHANISM FOR MACHINING OUT-OF-ROUND PISTON-RING CASTINGS. CHARLES E. JOHNSON, Muskegon, Mich. Filed Sept. 7, 1920. Serial No. 408,507. 5 Claims. (Cl. 82—2.)



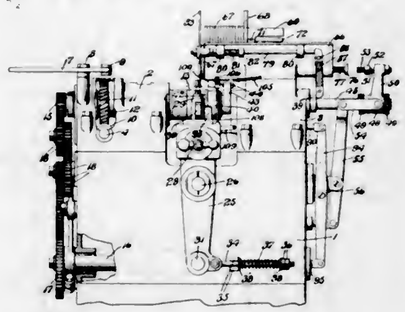
1. A mechanism of the character described, a spindle mounted for rotation, a head secured to said spindle and provided with an annular conical surface at its free end against which one side of an out-of-round piston ring casting is adapted to be placed, a second spindle in alignment with the first spindle, a second head mounted on said second spindle including a part adapted to turn about the longitudinal axis of the spindle, said second head having a face disposed in a plane perpendicular to the axis of the spindle, means for moving said second spindle and attached head so as to bring said face of the head against the opposite side of the ring casting, and means for connecting the heads together when said second head is moved toward the first head, substantially as described.

1,471,031. REVOLVING SHUTTER FOR MOVING-PICTURE-PROJECTING MACHINES. GREENHOW JOHNSTON, Richmond, Va. Filed Dec. 18, 1920. Serial No. 431,713. 10 Claims. (Cl. 88—19.3.)



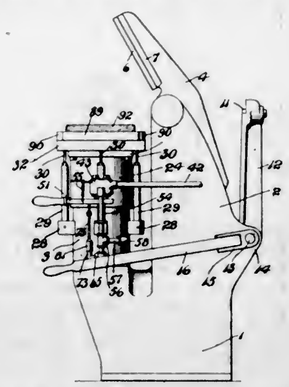
1. A shutter for motion picture projecting machines having a projecting portion of ovate form, and an obscuring portion having the primary colors applied thereto in groups following the contour of said ovate portion throughout the area of such portion.

1,471,032. AUTOMATIC PISTON-RING LATHE. CHARLES E. JOHNSON, Muskegon, Mich. Filed Jan. 9, 1922. Serial No. 528,076. 21 Claims. (Cl. 82—2.)



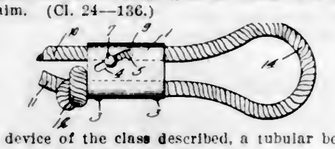
1. In a machine of the class described, means for holding a piston ring casting comprising two heads mounted to turn about a common axis and separable from each other, means for operating said heads to separate them to receive a piston ring casting between them and then moving them to clamp the casting between the heads whereby the casting is turned with the heads, a movably mounted tool support adapted to carry a tool to machine the outer curved sides of the ring casting, means for moving said tool support back and forth in a plane paralleling the sides of the ring, means for periodically operating the head separating means, and means for periodically feeding a ring casting to between the heads when the same are separated.

1,471,033. MOLDING MACHINE. CHARLES E. JOHNSON, Muskegon, Mich. Filed Jan. 24, 1922. Serial No. 531,449. 13 Claims. (Cl. 22—26.)



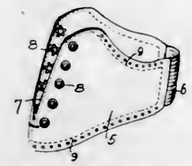
1. A molding machine comprising a support, a cylinder mounted thereon, a piston in the cylinder extending above the upper end thereof, means for carrying compressed air into the cylinder below the piston and away from the cylinder, automatic means for controlling the escape of air from the cylinder so as to have a relatively rapid exhaust at the beginning and a slower exhaust at the end of the exhaust operation, a pattern carrying table carried at the upper end of the piston, an abutment member movably mounted above the table, and means for automatically stopping downward movement of a flask placed on the table and permitting the table to move downwardly away therefrom substantially at the time the checking of the exhaust of air from the cylinder occurs.

1,471,034. ROPE CLAMP. ROBERT ED JORDAN, Jr., Halls, Tenn. Filed Aug. 5, 1921. Serial No. 490,002. 1 Claim. (Cl. 24—136.)



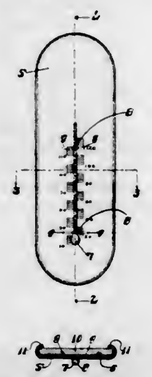
In a device of the class described, a tubular body provided in its sides with cam slots which slant outwardly in a direction oblique to one end of the body and to one longitudinal edge of the body, those ends of the cam slots which are adjacent to said longitudinal edge of the body being provided with seats which extend toward the axis of the body, transversely of the axis of the body, there being an opening at that end of one cam slot which is adjacent to said end of the body, and a retainer mounted to slide in the cam slots and to enter the seats, the retainer being provided with heads which are large enough to prevent the retainer from sliding end-wise out of the seats when the retainer is located in the seats, the opening being of sufficient size to permit one head of the retainer to pass therethrough when the retainer is moved end-wise, the said head being of sufficient size that it cannot pass through the other cam slot when the retainer is moved end-wise as aforesaid.

1,471,035. DETACHABLE TRIMMING FOR LOW SHOES. ANNIE R. KEENAN, Pittsburgh, Pa. Filed June 12, 1922. Serial No. 567,771. 1 Claim. (Cl. 36—58.5.)



A detachable trimming for low-shoes comprising a saddle-like member fitting over and conforming to the instep of the shoe and terminating short of the heel, having an elastic portion engaging the shank of the shoe, a slit formed part way down the front, and lacing eyelets adapted to register with the eyelets of the shoe.

1,471,036. THERMOMETER. JOSEPH KOMOROUS, Riverside, Ill., assignor to Parisian Novelty Company, Chicago, Ill. Filed Dec. 15, 1920. Serial No. 430,850. 6 Claims. (Cl. 73—52.)



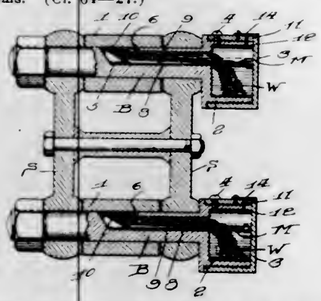
1. A thermometer mounting comprising a metallic backing member having its edges upset; and a sheet of congealable material secured to said backing member by having its edges turned over and under the edges of said member.

1,471,037. SUPPORT FOR THERMOMETERS. JOSEPH KOMOROUS, Riverside, Ill., assignor to Parisian Novelty Company, Chicago, Ill. Filed Feb. 13, 1922. Serial No. 536,049. 3 Claims. (Cl. 40—146.)



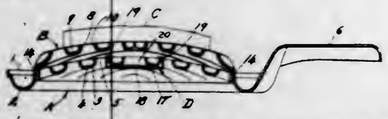
1. The combination of a facing member and a backing member, said members being secured together, there being a groove extending between said members and having its ends opening outwardly through one of said members; and a supporting member operatively mounted in said groove, substantially as described.

1,471,038. LUBRICATING DEVICE. DAVID L. LAWSON, Orby, Calif. Filed Mar. 5, 1923. Serial No. 622,993. 2 Claims. (Cl. 64—27.)



1. A new article of manufacture, a bolt having a hollow head adapted to contain a supply of lubricant, the shank of the bolt being provided with an axial bore in communication with the head and with an opening in a side of the shank, a wick disposed through the bore of the shank, and a spring member insertable within the bore of the shank, said member comprising overlying arms, one of said arms bearing against the wall of the bore and the second of said arms with the wick, one of said arms being provided with an angular extension to force the adjacent portion of the wick through the opening in the side of the shank.

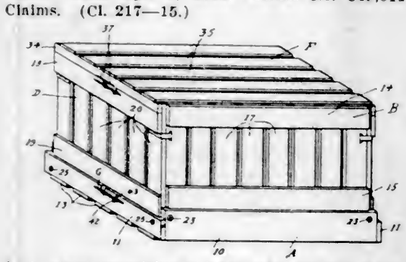
1,471,039. BROILER. ALEXANDER F. LEE, Cambridge, Mass. Filed June 17, 1922. Serial No. 569,141. 3 Claims. (Cl. 53—5.)



1. A broiler having a grid formed with ribs and open spaces between the ribs, and a heat protector of much smaller diameter than the grid attached to the under side of the middle of the grid, said heat protector being formed with slots which register with the open spaces between the ribs of the grid.

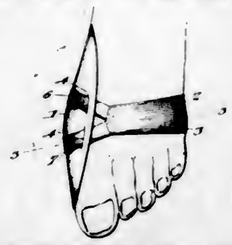
3. A broiler comprising two grid members, one superimposed upon the other, each having ribs extending to the outer periphery from some distance inward and having slots between said ribs, the lower grid member having two of said slots diametrically crossing the grid and intersecting each other at about right angles at the center thereof.

1,471,040. CRATE. JOHN A. LENNARTSON, St. Paul, Minn. Filed Apr. 5, 1922. Serial No. 549,811. 7 Claims. (Cl. 217—15.)



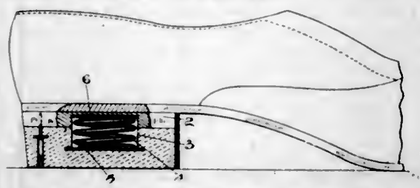
1. A crate comprising a base, side and end walls pivotally connected to said base, and adapted to swing inwardly within the same, a cover, latching means formed on said base, and end walls, and means on said cover adapted to cooperate with either of said latching means to hold said cover in latched position in either erected or collapsed position of the crate.

1,471,041. BUNION SHIELD. NATHAN V. LEVITT, Philadelphia, Pa., assignor of one-half to Morris L. Goldich, Philadelphia, Pa. Filed Oct. 29, 1919. Serial No. 334,184. 3 Claims. (Cl. 128—153.)



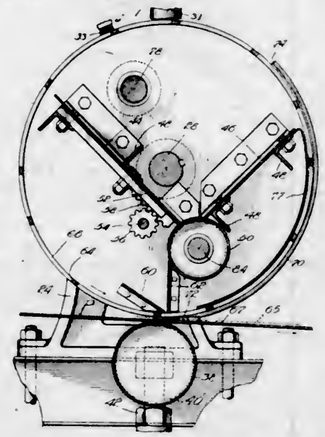
1. A bunion shield comprising with a shield member to fit a bunion joint, a band to hold the shield member in place comprising a non-elastic body portion to fit around the foot and a pair of elastic members connected with the body portion in branched relation and having their middle portions associated with the shield member to exert resilient holding force against the same on opposite sides of the joint.

1,471,042. RESILIENT HEEL. ALONZO E. LEWIS, Ingersoll, Ontario, Canada. Filed July 18, 1921. Serial No. 485,520. 2 Claims. (Cl. 36—38.)



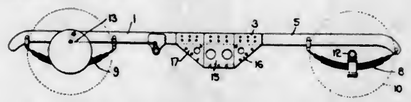
1. In a heel for boots and shoes, the combination of a leather heel; a rubber heel below the leather heel forming the tread portion of the heel, a cylindrical recess being formed partly in the rubber and partly in the leather; means securing the rubber heel to the leather engaging the rubber heel above the level of the bottom of the recess; a coil spring fitted in said recess and substantially filling the same; a circular metal plate; and a pressure distributing plate fitted over the upper end of the spring.

1,471,043. ROOFING MACHINE. THADDEUS J. LORDS and GARFIELD P. LENNARTZ, Chicago, Ill., assignors to Sears, Roebuck and Co., Chicago, Ill., a Corporation of New York. Filed Nov. 5, 1920. Serial No. 421,911. 17 Claims. (Cl. 91—67.9.)



1. In a device of the class described, spaced standards supporting a stationary shaft, stationary circular heads on said shaft, a tubular stencil rotatably supported by peripheral engagement with said heads, and means for rotating the stencil.

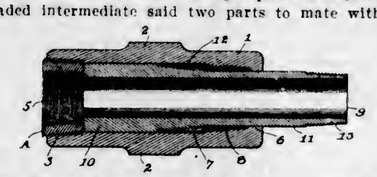
1,471,044. FRAME FOR AUTOMOBILES. RALPH M. LOVEJOY, Meredith, N. H. Original application filed Aug. 31, 1916, Serial No. 117,952. Divided and this application filed Dec. 16, 1920. Serial No. 431,255. 7 Claims. (Cl. 280—106.)



1. A frame for vehicles comprising side rails, girders connecting the end portions of said side rails and a box-like central girder of rectangular cross section having vertical plates provided with flanges extending longitudinally of said side rails and secured thereto, said central girder providing a rigid box-like construction adapted to resist torsional strains upon the frame.

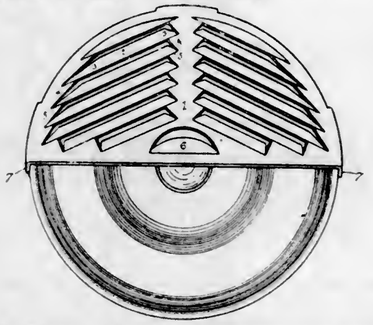
1,471,045. PIPE COUPLER. DEXTER WOODSON MAUPIN and RAYMOND CLIFFORD TEEGARDEN, Boulder, Colo. Filed Dec. 20, 1922. Serial No. 608,042. 2 Claims. (Cl. 285—13.)

1. A coupling comprising a sleeve having a cylindrical bore bearing intermediate its ends, a second cylindrical bore bearing of less diameter than the first mentioned adjacent one end and a tapered threaded bore connecting said bearing bores, and a slidable tubular member having a part adjacent one end adapted to fit snugly in said intermediate bore bearing and a part of lesser diameter adapted to fit snugly in the terminal bore bearing of the sleeve, said tubular member being tapered and exteriorly threaded intermediate said two parts to mate with the



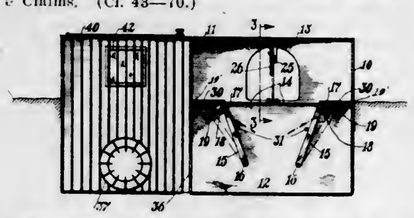
tapered threaded part of the sleeve and being further provided adjacent its end with a tapered threaded part adapted to co-act with an ordinary pipe coupler.

1,471,046. DIMMER FOR HEADLIGHTS. REID J. MCCREDIE, Buffalo, N. Y. Filed Aug. 3, 1921. Serial No. 489,614. 2 Claims. (Cl. 240—48.4.)



1. A dimmer and deflector for automobile headlight constructed of sheet material having a series of deflecting slabs that are spaced and arranged in two rows from the center in an angular and slanting position, a small semicircular portion cut in the lower central portion and bent to a certain angle, and three flanged portions on the edges of the dimmer.

1,471,047. ANIMAL TRAP. LUCIANO MELERO, Owensmouth, Calif. Filed Oct. 11, 1922. Serial No. 593,678. 5 Claims. (Cl. 43—70.)

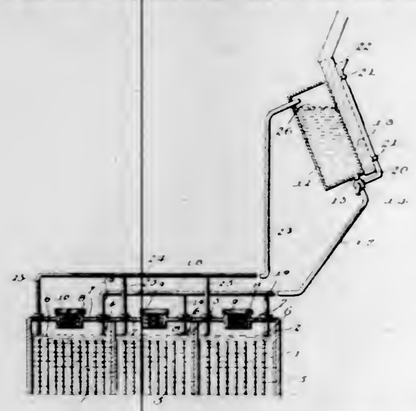


1. An animal trap, comprising a box having an opening through which the animal enters, a double-leaved trap door, means for holding the two leaves of the trap door closed, and a bait holding element adapted to release the said means, the said means comprising a double pronged lever having its prongs individually holding the respective leaves closed.

1,471,048. AUTOMATIC BATTERY WATER-SUPPLYING DEVICE. AUGUST MENGER, San Antonio, Tex. Filed Aug. 4, 1922. Serial No. 579,718. 2 Claims. (Cl. 137—68.)

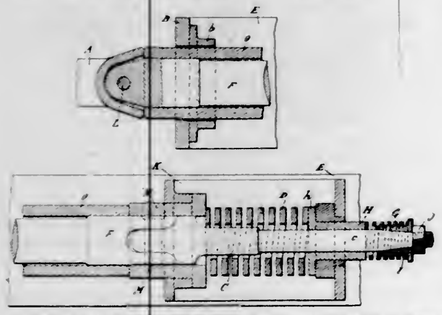
2. In combination, an electric storage battery comprising a plurality of cells arranged in series, each of said cells being provided with a cover plate having an air

tight connection therewith, each cover plate having a fill opening and a removable closure for the fill opening, the closure for the fill opening of the cell at one end of the series being provided with a vent and the remaining closures being imperforate and having an air tight fit with their respective fill openings, a container for liquid positioned above the level of the upper ends of the cells, a liquid supply conduit in communication at its upper end with the lower part of the container and including as its lower part a manifold having a plurality of pendant branches open at their lower ends and arranged to depend through the cover plates of the cells to terminate at their



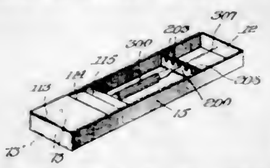
lower ends at a determined level within the cells, there being a branch of the manifold for each cell and said manifold being arranged so that the branch thereof remote from the container depends within the cell provided with the vented closure, and an air conduit having a lower end portion formed as a manifold having pendant branches depending through the cover plates of the cells to terminate at their lower ends at a level not lower than that of the lower ends of the branches of the liquid conducting manifold, said air conduit communicating at its upper end with the interior of the container above the level of the liquid in the latter, the container being air tight.

1,471,049. COUPLING FOR RAILWAY AND LIKE VEHICLES. JOHN MITCHELL and JOHN CECIL GEORGE COSSEY, London, England. Filed Aug. 14, 1922. Serial No. 581,885. 4 Claims. (Cl. 213—14.)



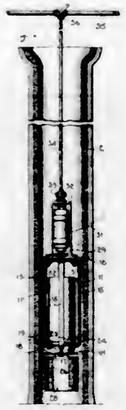
1. In railway and like vehicles a coupler head, a drawbar, an intermediate member interposed between said coupler head and said drawbar, means provided in said member permitting movement in two planes mutually at right angles between said drawbar and said coupler head, framing secured to said vehicle, front and rear plates secured to said framing, a flanged ferrule inserted in each of said plates and surrounding and guiding said drawbar, a draft and buffing spring abutting against the flanges of said ferrules and a distance piece disposed between said front ferrule and said coupler head and surrounding the greater portion of the length of said intermediate member.

1,471,050. BOX. CHRISTOPHER F. MONTAG, Blue Island, Ill., assignor to Blue Island Specialty Company, Blue Island, Ill., a Corporation of Illinois. Filed July 3, 1922. Serial No. 572,533. 6 Claims. (Cl. 206—7.)



1. A box formed from a blank cut from a flat sheet of material, said blank having a main rectangular part adapted to form the bottom of the box, said main rectangular part having cut therein a tongue adapted to be bent upwardly to form a support in the box and leave a hole in the bottom thereof, side extensions adapted to be bent up to form the sides of the box, a short rectangular end extension adapted to be bent up to form one end of the box, and a long rectangular end extension adapted to be bent up to form the other end of the box, the part of said long extension projecting beyond said box-end being adapted to be bent downwardly to form a spring clamp in conjunction with the bottom of the box.

1,471,051. MOLD-FACING DEVICE. WILLIAM DAVIS MOORE, Birmingham, Ala., assignor to American Cast Iron Pipe Company, Birmingham, Ala., a Corporation of Georgia. Filed Sept. 13, 1922. Serial No. 587,999. 30 Claims. (Cl. 22—88.)

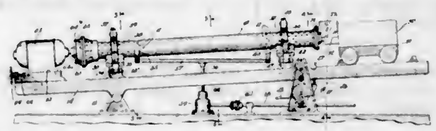


1. The method of facing hollow molds with powdered material which consists in moving a powder discharging means longitudinally through a hollow mold and in discharging the powder therefrom in such a manner as to cause a coating of the same to be applied to the inner surface of the mold.

1,471,052. METHOD OF AND APPARATUS FOR CENTRIFUGALLY CASTING METAL BODIES. WILLIAM D. MOORE, Birmingham, Ala., assignor to American Cast Iron Pipe Company, Birmingham, Ala., a Corporation of Georgia. Filed Mar. 1, 1923. Serial No. 622,082. 65 Claims. (Cl. 22—65.)

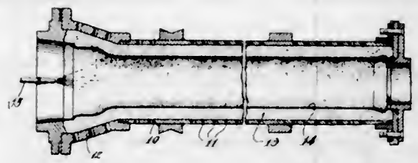
1. In the art of centrifugally casting hollow metal bodies, the method which consists in pouring molten

metal into a rotary mold while the latter is in a position inclined to the horizontal, and in moving the mold to



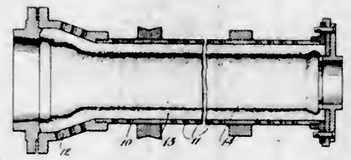
a substantially horizontal position while the metal is still in a fluid condition.

1,471,053. CENTRIFUGAL REFRACTORY MOLD AND METHOD OF PREPARING THE SAME. WILLIAM D. MOORE, Birmingham, Ala., assignor to American Cast Iron Pipe Company, Birmingham, Ala., a Corporation of Georgia. Original application filed Mar. 1, 1923, Serial No. 622,082. Divided and this application filed Mar. 8, 1923. Serial No. 623,648. 53 Claims. (Cl. 22—189.)



1. A method of preparing a refractory mold for use in centrifugal casting which consists in providing a hollow flask with a refractory unbaked lining and in coating the same with a powdered material having the properties of absorbing moisture from the lining and of setting to form a membraneous or skin-like facing capable of withstanding the cutting action of the molten metal delivered in to the mold.

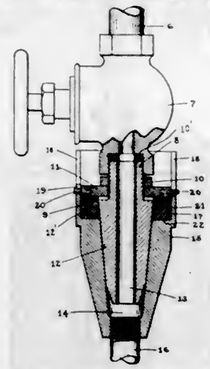
1,471,054. ART OF PRODUCING CENTRIFUGAL CASTINGS WITH A PROTECTIVE COATING. WILLIAM D. MOORE, Birmingham, Ala., assignor to American Cast Iron Pipe Company, Birmingham, Ala., a Corporation of Georgia. Original application filed Mar. 1, 1923, Serial No. 622,082. Divided and this application filed Mar. 8, 1923. Serial No. 623,649. 26 Claims. (Cl. 22—215.)



1. In the art of centrifugally casting metal bodies, the method of making a hollow metal casting with an outer protective coating fused to the body thereof, which consists in coating a refractory moist rotary mold with a powdered material having the property of absorbing moisture from the mold and of setting to form a fusible facing, and in pouring molten metal into the mold.

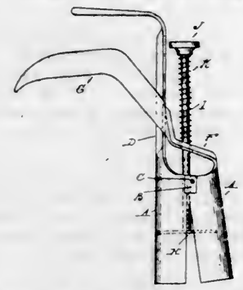
1,471,055. COUPLING. ANDREW J. NELSON, Milwaukee, Wis. Filed July 14, 1922. Serial No. 574,988. 2 Claims. (Cl. 275—175.)

1. A device of the class described, comprising a nozzle having a tapered discharging end, and a straight portion at its opposite end, a collar adjustably surrounding the straight portion and having trunnions, a receiving member having a tapered bore in which the discharging end of said nozzle is engageable and having a counterbore in its upper portion in which said collar extends, and co-



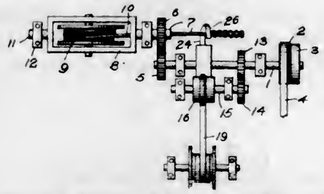
operating bayonet slot means between said collar trunnions and the receiving member for readily releasably securing the nozzle in said member.

1,471,056. GREASE-GUN FILLER. EDMUND NOLAN and CHARLES W. WALTERS, Detroit, Mich. Filed Apr. 20, 1921. Serial No. 463,097. 8 Claims. (Cl. 221—78.)



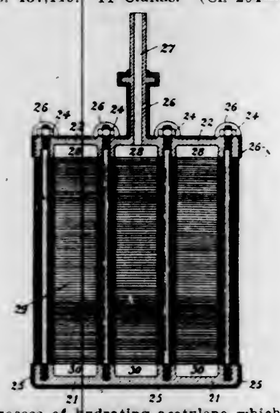
7. In a device of the character described, the combination with a pair of complementary pivotally connected barrel forming members, of a piston reciprocatory within said members, and extensions from one end of said barrel forming members provided at their extremity with portions transverse to the axis of said barrel forming a gripping portion for the device.

1,471,057. MANUFACTURE OF FLEXIBLE METALLIC TUBING, ARMORED CABLE, AND LIKE PRODUCTS. GEORGE E. PHILLIPS, Baden, Pa., assignor to National Metal Molding Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 14, 1922. Serial No. 543,763. 6 Claims. (Cl. 113—35.)



1. In the manufacture of flexible metallic tubing, etc., the step which consists in impelling a strip of metal forwardly into contact with a fixed surface of helical form but of extent less than a complete circle with respect to its axis, and thereby converting the strip into a series of helical coils.

1,471,058. PROCESS FOR THE MANUFACTURE OF ACETALDEHYDE OR ACETIC ACID. HERMANN PLAUSON, Hamburg, Germany. Filed Jan. 13, 1921. Serial No. 437,119. 11 Claims. (Cl. 204—9.)



1. The process of hydrating acetylene which comprises passing acetylene in presence of water through a porous conductive electrode containing a mercury compound and supplying said electrode with current.

1,471,059. PROCESS FOR THE MANUFACTURE OF RUBBER AND EBONITE SUBSTITUTES. HERMANN PLAUSON, Hamburg, Germany. Filed Feb. 12, 1921. Serial No. 444,486. 9 Claims. (Cl. 106—23.)

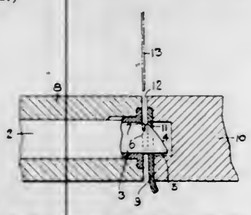
8. Rubber substitute comprising a hot-vulcanized composition of a fatty acid and a vulcanizable oil.

1,471,060. RAILWAY TIE. ROLAND V. RANDALL and VICTOR E. RANDALL, Battle Creek, Mich., assignors of one-third to Benjamin Gwatkin, Battle Creek, Mich. Filed Oct. 5, 1920, Serial No. 414,849. Renewed May 23, 1923. 13 Claims. (Cl. 238—343.)



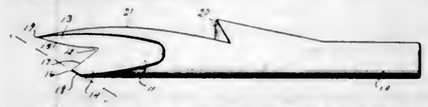
11. The combination with a railway tie and a rail clamping bolt removably fitted therein, said bolt being screw-threaded at an end extending above said tie, means to anchor said bolt within said tie, a lead washer carried by said bolt at its threaded end, a hard metal plate carried by said bolt over said washer, and a nut run on said bolt and adapted to bear upon said plate and impress said washer on said tie.

1,471,061. LOCK. EDWIN A. REINEMAN, Pittsburgh, Pa. Filed Aug. 25, 1922. Serial No. 584,325. 2 Claims. (Cl. 292—2.)



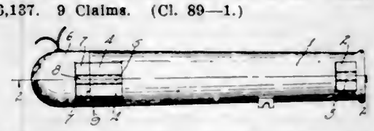
1. A latch bolt having its end tapered on one side and straight on the other side, and having a parallel-sided transverse slot at the inner or wider edge of said tapered side and an inclined surface connecting one of the sides of said slot and the said tapered portion of said bolt.

1,471,062. FLUE TOOL. VICTOR T. RIBLETT, Shinnston, W. Va. Filed Mar. 24, 1923. Serial No. 627,368. 3 Claims. (Cl. 81—15.)



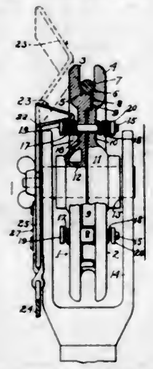
1. The tool for the purpose described, a shank flattened at one end and furcated to provide long and short cutter arms, the long cutter arm being provided upon its inner surface with a V-shaped cutting face and short cutter arm being provided with a spade point, formed by the juncture of two beveled surfaces, one of which is disposed in a plane intersecting the axis of the tool and passing in advance of extreme forward point of the long cutter.

1,471,063. TRENCH MORTAR. FRED ROGNLIE, Churchs Ferry, N. Dak. Filed Mar. 19, 1923. Serial No. 626,137. 9 Claims. (Cl. 89—1.)



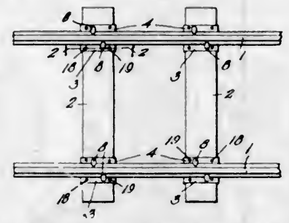
2. A trench mortar comprising a barrel having a boss, a removable breech block having a boss, the boss in the barrel and in the breech block each having a groove arranged to register with the companion groove, when the breech block is in firing position.

1,471,064. TROLLEY WHEEL. JOSEPH SIRO RONCATI, Los Angeles, Calif. Filed Apr. 8, 1922. Serial No. 550,713. 3 Claims. (Cl. 191—63.)



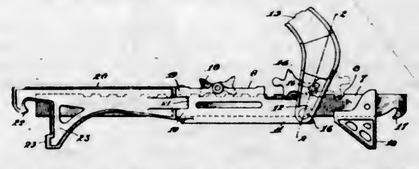
1. A trolley wheel comprising a bearing pin, two trolley wheel members mounted on said bearing pin in such a manner as to turn thereon and to permit of a relatively sliding movement of said trolley wheel members toward and from one another, and spring means for yieldingly holding the two trolley wheel members toward one another so as to allow said members to slide apart in passing an enlargement on the wire, said trolley wheel members being provided with flanges forming a groove adapted to fit the trolley wire and with interengaging projections in the grooved portion thereof adapted to form a bearing surface for the trolley wire in the relatively sliding movement of the trolley wheel members.

1,471,065. RAIL JOINT. WILLIAM B. RUMBAUGH, Bellingham, Wash. Filed Dec. 23, 1922. Serial No. 608,756. 3 Claims. (Cl. 238—294.)



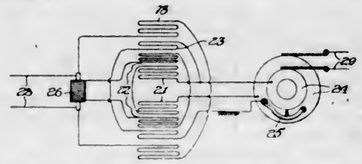
3. In a rail securing means, the combination of a tie, a rail supported thereby, a tie plate disposed on the tie, said tie being provided with a recess beneath the plate, a spike passed through the plate and engaging over the base flange of the rail, brackets carried by the plate and mounted within said recess, and means slidably supported by the brackets and disposed in the recess for engaging the spike to prevent movement of the same.

1,471,066. TOOL FOR EXPANDING AND CONTRACTING SPLIT WHEEL RIMS. ELMER T. RUSHTON and RENI S. BERRY, Los Angeles, Calif., assignors to Hercules Products Company, St. Joseph, Mich., a Corporation of Michigan. Filed June 10, 1919. Serial No. 303,152. 4 Claims. (Cl. 157—1.)



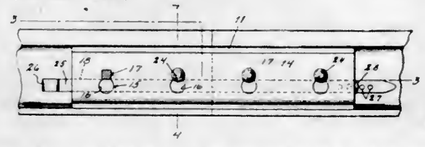
1. In a tool for expanding and contracting split wheel rims, a sleeve, a toothed bar slidable therein, a pawl carried by said sleeve engageable with the teeth on the bar, wheel rim engaging means on said sleeve and bar, a lever pivoted on said sleeve, and a reversible dog carried by said lever adapted to be operatively engaged directly with the teeth on the bar from opposite sides of the lever, whereby on operation of the lever the bar may be advanced step by step in either direction.

1,471,067. DYNAMO-ELECTRIC MACHINE. HENRY K. SANDELL, Chicago, Ill., assignor to Herbert S. Mills, Chicago, Ill. Original application filed Aug. 8, 1917, Serial No. 185,009. Divided and this application filed Feb. 12, 1919. Serial No. 276,565. 1 Claim. (Cl. 171—123.)



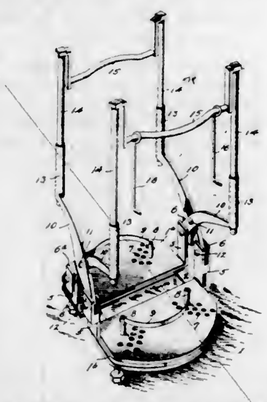
A dynamotor having a field magnet and an armature, a direct current winding on said magnet; an inductively excited winding also arranged on said magnet; a winding on the armature, arranged to provide armature poles whose angular spacing corresponds to that of the field poles; a second winding of an ordinary direct current type also disposed on said armature; and a third winding also disposed on said armature, said third winding being arranged to provide armature poles whose angular spacing corresponds to that of the field poles, but angularly displaced from the poles provided by the first mentioned winding, said third winding being disposed near the periphery of the armature, means for supplying single phase alternating current to the first and third windings and means to cut out the third winding on attainment of a desired rate of rotation.

1,471,068. RAIL JOINT. JOHN A. SANNER, Page, W. Va. Filed June 16, 1923. Serial No. 645,759. 3 Claims. (Cl. 238—252.)



1. Securing means for the meeting ends of rails, comprising angle plates disposed against opposite sides of the rails at the meeting ends thereof, the rails and angle plates being formed with registering holes, a bar disposed against the outer side of one angle plate and formed with key hole slots registering with said holes, fastening members extending through said holes and having reduced angular ends for engagement within the smaller ends of the key hole slots, and wedge means between said bar and the adjacent angle plate for forcing the former outwardly with respect to the latter, the inner side of said bar being formed with a tapered channel receiving the wedge and defining a lip engaged by one edge thereof, the other edge of the wedge engaging the under sides of said fastening members.

1,471,069. JAR OR BOTTLE CLAMP. JOSEPH SCORTINO, Youngstown, Ohio. Filed Apr. 3, 1922. Serial No. 549,183. 3 Claims. (Cl. 81—3.3.)

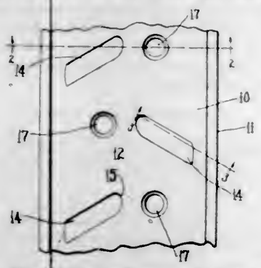


1. In an article of the character described, a base composed of two sections slidably connected, holding elements in said base, operating levers pivoted to each other intermediate their ends and swingingly secured upon the opposite sections of said base.

1,471,070. RUBBER TIRE. MYRON R. SHAW, Springfield, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Oct. 26, 1920. Serial No. 419,572. 5 Claims. (Cl. 152—1.)

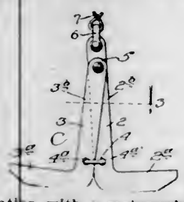
1. A solid rubber tire having a resilient body portion, recesses oblique to the plane of the tire and arranged on

opposite sides thereof, and substantially conical recesses disposed non-centrally of the tread portion of the tire



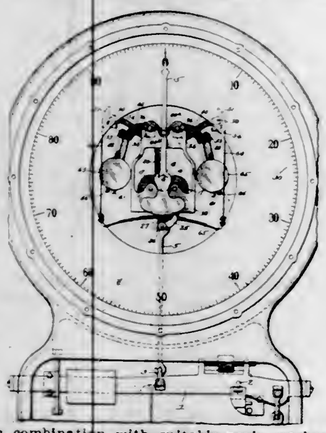
and between the first-named recesses, the said recesses extending to a depth approximately within the middle third of the tire.

1,471,071. RADIATOR-CAP ATTACHMENT. JOSEPH HIGGINS SMITH, Chicago, Ill. Filed Sept. 11, 1920. Serial No. 409,635. 3 Claims. (Cl. 220—39.)



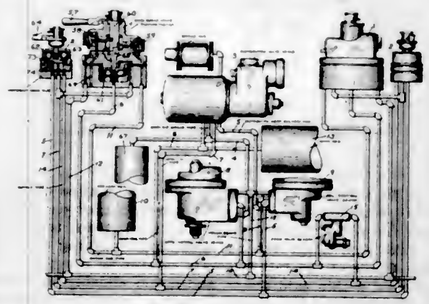
1. The combination with a motor-vehicle radiator provided with a nipple and cap, of an anchor comprising a pair of toggle bars, connecting means between the elbow portions of said bars enabling the bars to be turned for collapsing the device, means for securing the upper portions of said bars together when the grappling arms are in extended position, and a flexible connection securing the upper portion of the anchor to the radiator-cap.

1,471,072. AUTOMATIC SCALE. ANDREW SONANDER, Rutland, Vt., assignor to Howe Scale Company, Rutland, Vt., a Corporation of Vermont. Filed Aug. 13, 1921. Serial No. 492,024. 11 Claims. (Cl. 265—62.)



1. The combination with suitable scale mechanism including a draft rod and an indicator mechanism, of a pair of crossing or intersecting pendulum levers having their corresponding ends presented in a common transverse plane, and means connecting said levers with said draft rod.

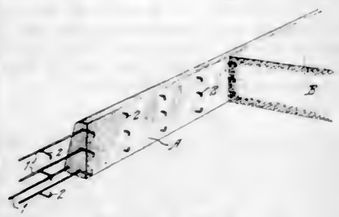
1,471,073. FLUID-PRESSURE BRAKE EQUIPMENT. THOMAS H. THOMAS, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Feb. 8, 1921. Serial No. 443,360. 17 Claims. (Cl. 303—4.)



7. In a fluid pressure brake, the combination with a vacuum brake pipe and a compressed fluid brake pipe, of an application control valve device comprising differential diaphragms subject to the opposing pressures of the compressed fluid brake pipe and a spring and subject on the differential area of one diaphragm to the pressure in the vacuum brake pipe, and a valve operated by said diaphragms upon an increase in pressure in the vacuum brake pipe for effecting a reduction in pressure in the compressed fluid brake pipe.

16. The combination with a vacuum brake pipe for controlling a vacuum brake system, of a brake pipe normally containing fluid under pressure and means subject to the pressure in the vacuum brake pipe for controlling the pressure in the compressed fluid brake pipe.

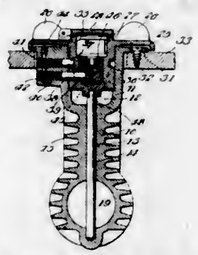
1,471,074. ROAD FORM. HERAULT A. TRESTER, Milwaukee, Wis., assignor to Metal Forms Corporation, Milwaukee, Wis., a Corporation. Filed Jan. 7, 1920. Serial No. 349,930. 11 Claims. (Cl. 94—31.)



1. A road form constructed of composition material, combined with a longitudinal reinforcing element therefor, and anchoring elements connected to the longitudinal element and projecting laterally from the form at a side thereof so as to extend a considerable distance from said side to become embedded in and anchor the form to an abutting road bed of subsequently constructed plastic material.

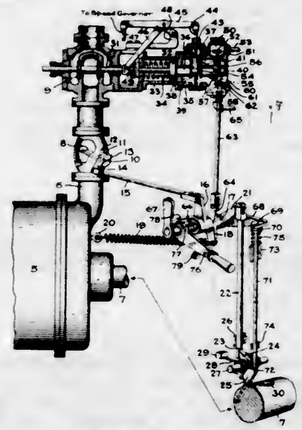
1,471,075. LOCKED EXHAUST VALVE. JAMES B. VAN HOOSE, Springfield, Mo. Filed July 28, 1922. Serial No. 578,182. 1 Claim. (Cl. 251—6.)

The combination with a valve casing for connection with a pipe, of a valve in the casing controlling the passage of fluid through the pipe, a stem for the valve, said casing having a chamber therein and including an upper outwardly extending flange, a rotatable member within the casing for operating the stem, said rotatable member including a flange overlying the other flange, a lock for retaining said rotatable member against movement, and means positioned under the overlying portion of the



flange of the rotatable member for securing the casing to a stationary element, said means being nonremovable when the lock is in engaging position.

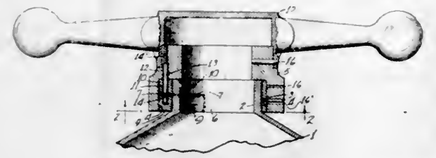
1,471,076. VALVE GEAR. WILLIAM EVERETT VER PLANCK, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 26, 1920. Serial No. 384,342. 17 Claims. (Cl. 137—140.)



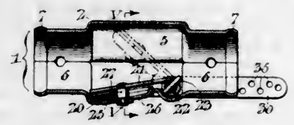
17. In combination, a prime mover, a conduit for supplying motive fluid thereto, a valve in said conduit, means biasing said valve toward closed position, a cylinder, a piston in the cylinder, a rod connecting the piston to said valve, means biasing the piston toward a position to close the valve, a pilot valve casing, a pilot valve therein for controlling the flow of motive fluid to said cylinder, a conduit for supplying motive fluid to said casing, a discharge conduit connected to said casing, means forming a passage which connects said cylinder directly to said discharge conduit, a valve in said passage which is biased to open position, an emergency valve in said first-named conduit which is biased to closed position, means holding the valve in said passage closed and said emergency valve open, biasing means which acts to move said holding means away from such valves, a catch for holding said means against the action of said biasing means, and means responsive to an abnormal operating condition of the prime mover for releasing said catch.

1,471,077. LOCKING DEVICE. CHARLES VOGT, Chicago, Ill. Filed Aug. 11, 1921. Serial No. 491,436. 4 Claims. (Cl. 220—24.)

1. A device of the character described comprising a split locking ring fashioned to provide cooperating relatively narrow end portions, said locking ring being threaded for connection with a tubular member, an additional tubular member threaded for connection with the split locking ring and having a portion thereof arranged to overlie the end of the locking ring, and means projected through registering openings in the overlying portion of the last named tubular member and in the adjacent end portion of the locking ring into a socket in the adjacent wall of the other end portion for limiting the movements of the said end portions relatively to one another.

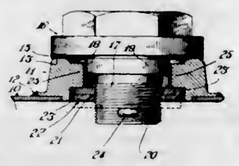


1,471,078. CUT-OUT FOR VEHICLE MOTORS. CLARENCE VOGT, Wenonah, N. J., assignor to Vogt Bros. & Squier Company, Philadelphia, Pa., a Corporation of Delaware. Filed Mar. 25, 1921. Serial No. 455,389. 6 Claims. (Cl. 251—125.)



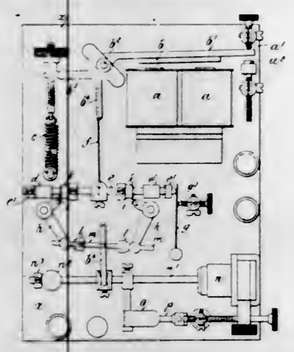
1. A muffler cut-out comprising a pair of semi-cylindrical sheet metal sections, each pressed outwardly at central points to form a quadrangular casing when the sections are assembled, and cylindrical coupling ends, the meeting edges of the cylindrical portions being recessed to form openings which are threaded to receive anchoring members for attaching the device to a vehicle, one section having a lateral opening formed therein and a valve member to close said opening.

1,471,079. CLOSURE FOR RECEPTACLES. FREDERICK G. WACKER, Chicago, Ill. Filed Feb. 25, 1921. Serial No. 447,842. 3 Claims. (Cl. 220—25.)



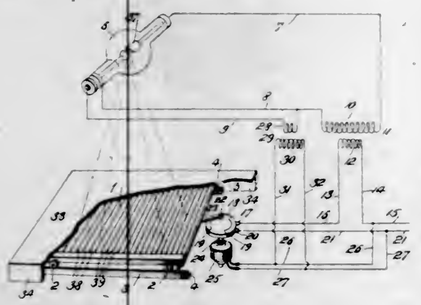
1. The combination with a barrel-head having an orifice, of a ring secured to said head and rimming said orifice projecting above the plane of the head, said ring having bayonet-lock passages therein comprising vertical passages open at top and bottom through the upper and lower surfaces of the ring and lateral passages communicating with the vertical passages near the lower ends of the latter, a unitary bung structure comprising a tool-receptive head adapted to span across the top of the ring member and co-act with the upper surface thereof, and a threaded stem of greater length than the depth of the ring, an internally screw-threaded bridge piece on said stem having provision for co-action with the bayonet lock passages, and means on said stem for preventing movement of said bridge piece away from the under surface of the head to a distance equal to the depth of the ring.

1,471,080. ELECTRICALLY-OPERATED SWITCH AND THE LIKE. LAWRENCE HERBERT WADSWORTH, London, England. Filed June 30, 1922. Serial No. 571,992. 2 Claims. (Cl. 200—90.)



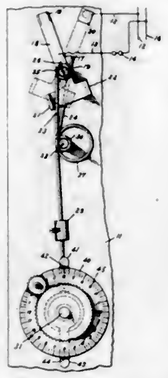
2. An electrically operated switch, comprising an electro-magnet, a rocking armature, an adjustably spring controlled arm carried by said armature, a transversely arranged spring controlled sliding switch bar, a contact carried thereon, a fixed contact adapted to be engaged by the switch bar contact, electrical connections for said contacts and the magnet to couple them up to a source of electrical energy, a single acting air dash pot having means for regulating the escape of air therefrom and connected to the free end of the armature arm, locking mechanism for the sliding switch bar comprising a pair of spring controlled bell crank levers pivoted on either side of the armature arm, the one arm of each lever carrying a pin adapted to engage one of a pair of adjustable collars or cams carried on the switch bar and the other arm of the lever engaging one of a pair of adjustable collars mounted on either side of a rod pivoted at its center to the armature arm, and one or more additional contacts carried by one of the moving parts adapted to make contact with one or more fixed contacts so as to make and break one or more external circuits coupled up to said contacts, as set forth.

1,471,081. VIBRATING BUCKEY DIAPHRAGM FOR SCATTERED X-RAY RADIATION. HARRY F. WAITE, New York, N. Y. Filed Sept. 28, 1921. Serial No. 503,947. 3 Claims. (Cl. 250—34.)



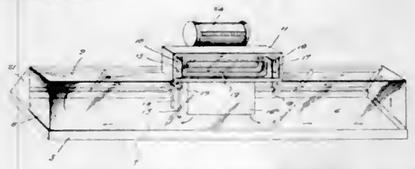
1. In a system of the class described, means for generating primary X-rays, means for recording X-rays, movable, repeatedly reciprocating means for eliminating said secondary X-rays and not obstructing said primary X-rays and a rotary switch for preventing the generation of said primary X-rays when the moving, eliminating means is at rest.

1,471,082. TIME SWITCH. HENRY E. WARREN, Ashland, Mass., assignor to General Electric Company, a Corporation of New York. Filed Nov. 15, 1919. Serial No. 338,367. 11 Claims. (Cl. 200—35.)



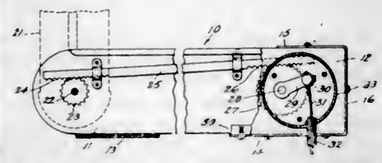
1. In combination, a switch, a member, a single means for first moving said member, and then allowing said member to return beyond its first position due to its momentum and directly operate said switch blade.

1,471,083. REFRIGERATED DISPLAY CASE. ANDREW R. WINGARD and GUNNAR WINGARD, Tacoma, Wash. Filed Mar. 31, 1922. Serial No. 548,468. 2 Claims. (Cl. 62—37.)



1. The combination with a display case of a superimposed casing, an intermediate flue surrounding a central opening in the bottom of the casing and depending downwardly through the top of the display case to a point adjacent to the bottom of said case, end flues spaced from the intermediate flue and establishing communication between the display case and the end portions of the casing, the inner walls of said end flues being arranged to define an intervening cooling compartment in the casing and being spaced from the top wall of the casing, the lower edges of said end walls being disposed within the display case and inclined in opposite directions to provide integral air deflecting scoops.

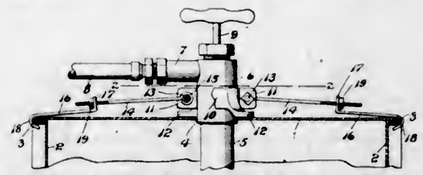
1,471,084. AUTOMOBILE SIGNAL. ANTONE E. WOLTER, Everett, Wash. Filed Nov. 30, 1921. Serial No. 518,872. 1 Claim. (Cl. 116—54.)



In a signal for motor vehicles, the combination of a casing adapted to be secured at one end thereof to a vehicle, a signalling arm pivotally connected to one end

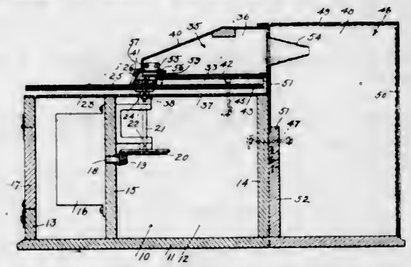
of said casing, and normally housed within the latter, a crank shaft provided in the other end of the casing, operative connections between said arm and the crank shaft, a flexible rod connected at one of its ends to the crank of said shaft, rotatable means connected to the other end of the flexible rod for effecting axial movements to the rod for positively transmitting movements in opposite rotary directions selectively to the signalling arm, means engageable with the aforesaid means for releasably retaining the signalling arm in a selected position, and means provided upon the casing for illuminating the front and rear sides of the signalling arm when the same is in its several signalling positions.

1,471,085. BARREL-ATTACHING DEVICE FOR GREASE GUNS OR THE LIKE. A. J. WOOD, Greenville, Mich., assignor to Bennett Injector Company, Muskegon, Mich., a Corporation of Delaware. Filed Jan. 28, 1921. Serial No. 440,622. 5 Claims. (Cl. 103—218.)



1. A device of the character described, comprising two bars adapted to be placed one at each side of the head of a grease gun, means for securing said bars to said head, and hook members operatively connected with said bars to engage one with the chime at each end of a barrel with which the grease gun is associated, substantially as described.

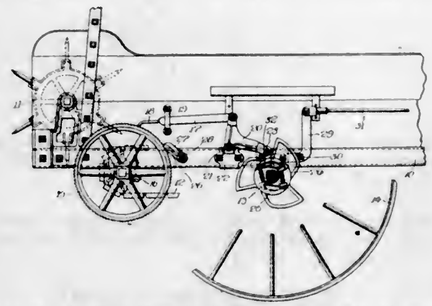
1,471,086. FLYTRAP. KATSUICHI YOKOSAWA and KOJI MIYAZAKI, Los Angeles, Calif.; said Yokosawa assignor to said Miyazaki. Filed June 1, 1920. Serial No. 385,568. 2 Claims. (Cl. 43—111.)



1. A fly trap, including a main casing, a prime mover mounted in said casing, a bait receiving disk rotatably mounted above the casing and connected with the prime mover so as to be rotated thereby, a receptacle mounted on the casing and covering a segment of the rotating disk, said receptacle having inlet and outlet openings for said disk, a crank arm provided with closure plates mounted on said disk adapted to close said inlet opening at predetermined intervals, and means mounted on said receptacle for operating said crank arm on a movement of the disk.

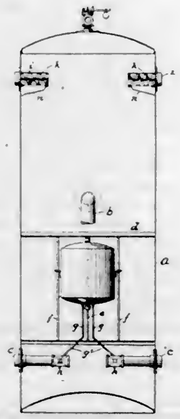
1,471,087. FEED MECHANISM FOR MANURE SPREADERS. FRANK W. ZINT, Springfield, Ill., assignor to Montgomery Ward & Co., Inc., Chicago, Ill., a Corporation of Illinois. Filed Dec. 24, 1919. Serial No. 347,143. 5 Claims. (Cl. 74—54.)

1. In a feeding mechanism of the class described, the combination with a traveling load support, a ratchet wheel for actuating the same, and a cam, of a feed pawl for actuating said ratchet wheel, a bell-crank lever pivoted at a point intermediate of said ratchet wheel and said cam, one of the arms of said bell-crank lever being connected to said feed pawl, the other arm being arranged for operation by said cam, and a second bell-crank lever



having one of its arms projected into the path of movement of the first mentioned bell-crank lever for cooperative contact therewith to control movement thereof in relation to said cam, whereby to vary the feed of said pawl.

1,471,088. OIL AND GAS SEPARATOR. ALBERT M. BALLARD, Yale, Okla., assignor to Sun Oil Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Mar. 16, 1922. Serial No. 544,302. 6 Claims. (Cl. 183—75.)

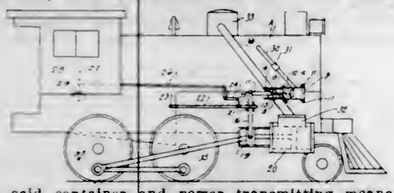


1. In an oil and gas separator, the combination with a tank having an oil and gas inlet, an oil outlet arranged at a relatively low elevation, a gas outlet arranged at a relatively high elevation, the fluid admitted to the tank dividing into a lower body of oil and a superincumbent body of gas containing oil in suspension, of a separator acting upon the outflowing gas to clean the same by separating the oil therefrom, an oil receiving surface over which the oil flows from the separator back to the body of oil in the tank, and means to direct the flow of oil from the separator to said oil receiving surface throughout the flow of said oil, in the general direction of the flow of gas through the separator.

1,471,089. LOCOMOTIVE. CARL BAUMAN, Pine Island, Minn. Filed Nov. 5, 1920. Serial No. 422,095. 7 Claims. (Cl. 105—64.)

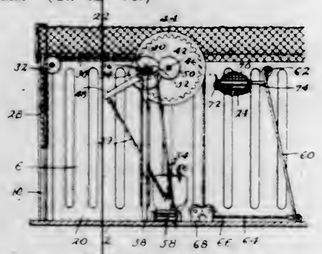
1. In combination with a locomotive having an air container, a cylinder communicating with said container, a reciprocable driving member in said cylinder propelled

by air from said container, an air compressor comprising a cylinder and a piston therein, said cylinder discharging



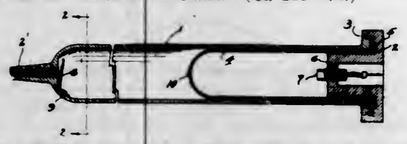
into said container and power transmitting means between said piston and reciprocable member for driving the former.

1,471,090. ANIMAL TRAP. LONNIE S. BENDER, Kansas City, Mo. Filed Jan. 19, 1923. Serial No. 613,594. 4 Claims. (Cl. 43—76.)



4. A trap consisting of a passageway, a compartment into which said passageway leads, a self-closing door at the entrance to the passageway, a drum, a cable connected to said drum and the door to hold the latter open, a pinion fixed to rotate with the drum, a large internal gear and drum geared to said pinion, a wheel fixed to rotate with the internal gear and drum, a detent engaging said wheel to hold the same stationary, a trip lever weighted at one end and operably connected to said detent to disengage the same from the wheel and permit the door to close, a basket in the vicinity of the trip lever for holding bait, a self-closing door leading from the passageway into the compartment, and a cable connecting the internal gear and drum and the last mentioned door whereby when the latter is opened opening of the first-mentioned door is effected.

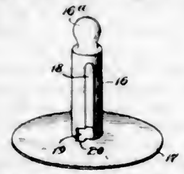
1,471,091. FLUID-PRESSURE DEVICE. ALFRED N. BESSESEN, Minneapolis, Minn. Filed Mar. 27, 1922. Serial No. 547,309. 1 Claim. (Cl. 221—74.)



In a fluid pressure device the combination of a barrel, a flexible bag having a bead around the perimeter of its open end, a cap for one end of said barrel, said cap clamping the bead of said bag against the end of said barrel, a check valve leading from the exterior of said cap to the interior of said bag, and a guard positioned for closing an aperture in the opposite end of said barrel against the upper end of said bag when expanded.

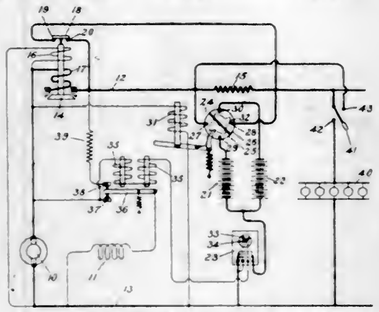
1,471,092. ATTACHMENT FOR SOUND-REPRODUCING DEVICES. LUDWIG BLAHA, Lyndhurst, N. J. Filed May 20, 1921. Serial No. 471,093. 7 Claims. (Cl. 274—1.)

1. An attachment for sound-reproducing machines, comprising a sleeve adapted to be telescopically mounted upon the spindle of the sound-reproducing machine, said sleeve having an annular laterally-extending flange at its lower end adapted to lie between the opposed surfaces



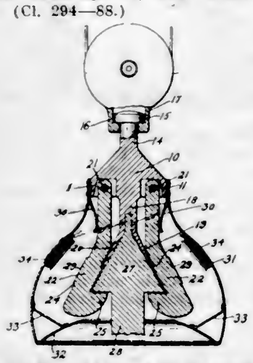
of the turntable and record, when the record is in position on the turntable.

1,471,093. SYSTEM OF ELECTRICAL DISTRIBUTION. WILLIAM L. BLISS, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed June 3, 1916. Serial No. 101,544. 7 Claims. (Cl. 171—313.)



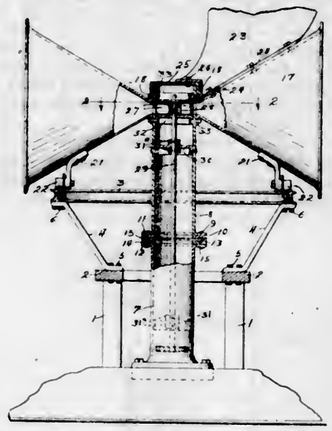
1. In a system of electrical distribution, a generator, a pair of storage batteries and a lamp circuit, said batteries having a common lead through which flows the total net current from the generator to the batteries and from the batteries to the lamp circuit, one of which batteries is adapted to regulate the lamp circuit while the other battery is being charged, integrating means connected in said common lead, and means controlled by said integrating means for reducing the field excitation of said generator.

1,471,094. CRANE HOOK. WALTER R. BLOSS, Muscle Shoals, Ala. Filed Apr. 10, 1922. Serial No. 551,098. 8 Claims. (Cl. 294—88.)



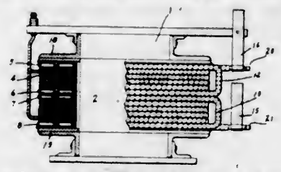
1. A crane hook comprising a body formed with a supporting element, a plurality of depending jaws pivoted upon the body and terminating in hooks engageable with an annular shoulder on a lifting head, springs urging said jaws into clamping relation, and a series of electromagnets positioned in spaced relation to the jaws and energizable to effect retraction thereof into releasing position.

1,471,095. FLUID-MOTOR SYSTEM. DOMENICO BONETTO, Roanoke, Ill. Filed Aug. 5, 1921. Serial No. 490,077. 3 Claims. (Cl. 170—5.)



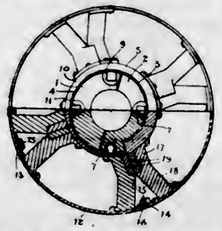
1. In an apparatus of the class described the combination with a fluid motor of self-adjusting means immediately adjacent the motor to properly receive and discharge the fluid by which the motor is adapted to be driven, said means comprising a funnel-shaped receiving device and a funnel-shaped discharging device, both of said devices being rigidly connected together and positioned to have their enlarged ends face in diametrically opposite direction.

1,471,096. ELECTRICAL APPARATUS. FREDERICK F. BRAND, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed May 8, 1919. Serial No. 295,667. 5 Claims. (Cl. 175—356.)



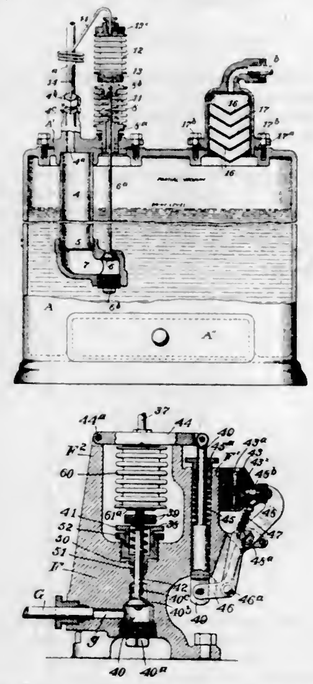
1. A transformer comprising a core, a winding thereon, another winding also thereon and in distributed relation with the first mentioned winding, the second mentioned winding comprising a plurality of flat tubes connected in multiple and placed edge to edge between their common terminals, and means for supplying fluid to said tubes to be vaporized therein.

1,471,097. PULLEY. LEONIDAS J. BRULOTTE, Toronto, Ontario, Canada. Filed Mar. 14, 1921. Serial No. 452,001. 3 Claims. (Cl. 287—52.)



1. A pulley, comprising, a split bushing having an eccentric periphery, a plurality of cam shaped members carried by said bushing and projecting from the periphery thereof, and a hub having a cam-shaped internal perimeter adapted to lock upon said bushing in engagement with said cams.

1,471,098. REFRIGERATING APPARATUS. PAUL H. BUCH and HOWARD M. GROFF, Trenton, N. J. Filed July 23, 1921. Serial No. 487,020. 10 Claims. (Cl. 62—8.)



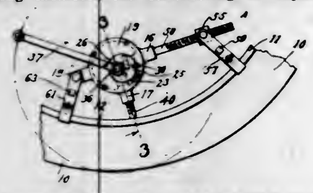
1. Apparatus of the type described comprising a brine tank, an expansion valve located within said tank near the bottom thereof, a compressor-condenser connected to supply liquid refrigerant under pressure to said expansion valve to be expanded thereby in gaseous form directly into the brine return pipe connections from the upper portion of said tank to said compressor-condenser, means actuated by variations in the pressure of the refrigerant on the intake side of said valve for controlling the action of the valve and other means controlled by variations in the pressure of the expanded refrigerant in the tank for controlling the action of the valve.

7. In apparatus of the class described a condenser including condensing coils, a compressor for forcing refrigerant into said coils, a motor for operating said compressor, a water supply for cooling said coils, a hollow expansible element having its interior in communication with the interior of said coils, a valve for controlling said water supply having a connection between said valve and one end of said expansible element, and means connected with the other end of said expansible element for controlling the action of the motor.

1,471,099. TOOL FOR DEMOUNTABLE RIMS. JAMES H. CAPLAN, Boston, Mass. Filed July 21, 1919. Serial No. 312,152. 6 Claims. (Cl. 157—1.)

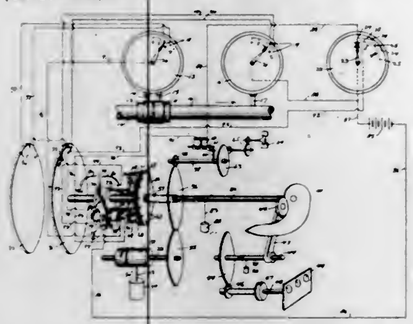
1. A rim tool having a pair of gripping members adapted to be detachably secured to the rim flanges with the split of the rim positioned therebetween; intermediate jacking means adapted to engage with the rim for dis-

torting an end of the rim from its butting position at the joint; means for changing the spread between the pair of gripping members for contracting or expanding the



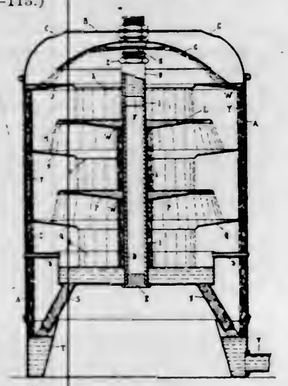
rim; and common operating means adapted to be shifted into working relation with either said jacking or gripping member spread changing means for operating either of said means at will.

1,471,100. REGISTERING METER. LESTER A. CHERRY, Kenmore, N. Y., assignor, by mesne assignments, to Manley & Barlow, Corry, Pa., a Copartnership composed of Henry E. Manley and George H. Barlow. Filed Dec. 13, 1919. Serial No. 344,661. 12 Claims. (Cl. 235—1.)



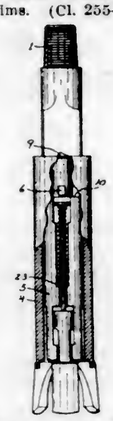
1. A registering meter comprising a plurality of selecting means, and means for automatically determining the logarithm of any mathematical function of the number indicated by each of the selecting means.

1,471,101. GAS AND LIQUID CONTACT DEVICE. EDWIN CLEARY, deceased, late of London, England, by Alfred Hutchison, administrator, London, England. Filed Nov. 25, 1922. Serial No. 603,361. 3 Claims. (Cl. 261—113.)



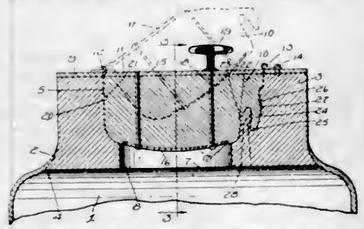
1. A gas and liquid contact device comprising an upright shell having a trough arranged peripherally inwardly at its lower end affording a central opening for the passage of gas through said shell, a reservoir within said shell secured in spaced relation to the wall thereof and positioned to confront said opening, a conduit leading from said reservoir to said trough, cooperating stacks of central and peripheral baffles within said shell, arranged in interleaved relation, said baffles being each formed with a spacing piece upon which rests the super-adjacent baffle of its stack, means carried by said reservoir and shell for supporting said stacks of baffles, means for supplying water to said baffles and a discharge pipe for said trough.

1,471,102. OIL-WELL UNDER REAMER. VICTOR L. CONAGHAN, Wichita, Kans. Filed Mar. 8, 1923. Serial No. 623,692. 2 Claims. (Cl. 255—75.)



1. In oil well under reamers, a shell, having a shank, a portion of which is square, to engage with a wrench, the outer end of said shank being threaded to engage with a hoisting connection, said shell adapted to receive a core, said core with a plurality of tensioning means and shearing blades attached thereto, for the purpose set forth and described.

1,471,103. PLUG FOR ICE AND HOT WATER BAGS. ARTHUR CONNOR, Chicago, Ill. Filed Mar. 6, 1922. Serial No. 541,530. 6 Claims. (Cl. 150—8.)

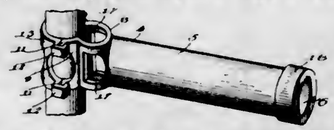


6. A device of the character described comprising a substantially firm body portion adapted to be fitted in the neck of a hot or ice water bag, said body portion having a passage extending longitudinally therethrough, a plug hingedly mounted on said body portion and adapted to fit into and seal the mouth of said passage, and means actuated by the pressure of the liquid within the bag for locking said plug against movement in the mouth of said passage when pressure is applied exteriorly to the bag.

1,471,104. BURNER. ELMER E. CORNWELL and JOSEPH H. MCCREADY, Okmulgee, Okla. Filed June 5, 1922. Serial No. 565,804. 1 Claim. (Cl. 158—106.)

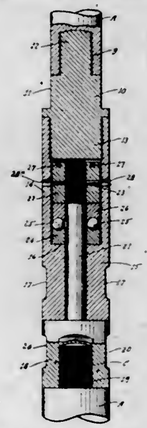
The combination with a supply tube having a lateral feed orifice through its walls of a burner comprising a tubular body and a hollow base into which the tubular

body is merged at one of its ends, the bore of the tubular body continuing through the walls of the base and opening into the interior of the latter, said base having a pair of side portions extending forwardly of the proximate end of the tubular body, a clamp section merged into one of the side portions of the base along the outer side edge of the latter, a second clamp section merged into the other side portion of the base along the outer side edge of the latter, said clamp sections being adapted to terminate at their outer side edges in a diametrical plane of the supply tube when the outer side edges of the side portions of the base are in abutting relation to the peripheral wall of the supply tube, one of said clamp sections having an outwardly extending lug at its outer edge and the other of said clamp sections having a perforated outwardly extending ear at its outer edge, a clamp sec-



tion complemental to said first named and said second named clamp sections, said third clamp section being adapted to extend in engagement with the outer peripheral wall of the supply tube between the outer edges of the first and second named clamp sections and having a socket portion at one side edge adapted to receive and engage with the lug on one of the other clamp sections and having an ear at its other side edge provided with a perforation in register with the perforation in the ear of the remaining clamp section, and a fastening device for holding said perforated ears together, whereby said third named clamp section will be releasably held against displacement from said first named and said second named clamp sections and said base may be held against said supply tube with the outer side edges of the side portions of the base clamped against the supply tube at opposite sides of the lateral feed orifice in the latter.

1,471,105. BALL-BEARING SWIVEL SUCKER-ROD JOINT. REGINALD E. COX, Torrance, Calif. Filed Oct. 15, 1921. Serial No. 507,999. 1 Claim. (Cl. 287—91.)



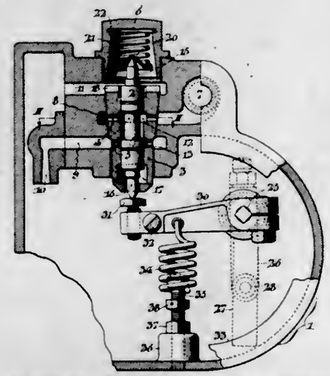
Means for coupling a pair of sucker rods, comprising an upper coupling member having threaded connection with the lower end of one sucker rod and formed with a reduced extension at its lower end, a lower coupling member having threaded connection with the other sucker rod and being formed with an upwardly extending reduced extension having a threaded end, a sleeve threaded upon said first named extension and formed at its lower end with an inwardly extending flange defining a retaining shoulder, said second named extension passing within said flange, a pair of ball races having a series of balls therebetween and seating upon said shoulder, and a nut rigidly secured upon the threaded end of the second named extension and seating upon the uppermost ball race.

1,471,106. SUCKER-ROD COUPLING. REGINALD E. COX, Mexia, Tex. Filed July 8, 1922. Serial No. 573,706. 2 Claims. (Cl. 287—91.)



2. In a sucker rod coupling, a cylinder adapted for engagement with one of adjacent ends of a sucker rod string, a shaft having its end extending into the opposite end of the cylinder and adapted for engagement with the other of the adjacent ends of the string, spaced supports disposed within said cylinder, nuts carried by said shaft intermediate each pair of spaced supports, springs extending intermediate said nuts and the adjacent supports, abutment members limiting the compression of said springs during movement of the shaft within the cylinder, and an anti-friction bearing disposed upon the upper surface of each of said supports and supporting the weight of the shaft attached portion of the string when the string is elevated.

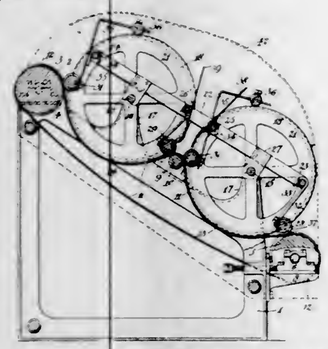
1,471,107. CONTROLLING VALVE. LEWIS A. DARLING, Philadelphia, Pa., assignor to Electric Service Supplies Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 18, 1919. Serial No. 305,125. 10 Claims. (Cl. 137—139.)



1. In a turbine having a side pocket communicating with the turbine chamber, the combination of a controlling valve for motive fluid with an actuating member ex-

tending into said pocket, said valve being reversible end for end and normally tending to move inward toward said pocket; and a governor-controlled lever arm in said pocket for operating said valve through said actuating member, said lever arm having mounted and secured thereon an adjustable abutment for engaging the valve-actuating member.

1,471,108. TIN-PLATE BRANNING OR GREASE-REMOVING MACHINE. SAMUEL DAVIES, Briton Ferry, Wales. Filed Sept. 5, 1922. Serial No. 586,384. 10 Claims. (Cl. 51—19.)



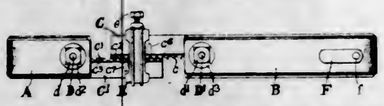
1. A machine for branning or removing grease from tin plates, comprising an endless inclined travelling belt of a greater width than the plates to be branned and for conveying said plates through the machine, means for driving said belt so that its upper run travels in an upward direction, and guiding means for forming the upper run into two successive troughs to receive branning or cleaning material, through which troughs the plates are carried by said belt substantially as set forth.

1,471,109. HOG OILER. DAVID S. DICK, Hawarden, Iowa. Filed Oct. 14, 1922. Serial No. 594,555. 3 Claims. (Cl. 119—157.)



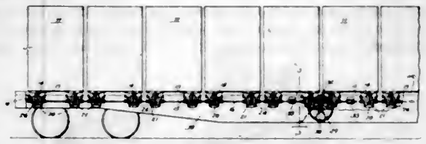
1. In a hog oiler, a frame, a distributor comprising a cylindrical member having an axis, means for supporting the axis for vertical movement, plates within the cylindrical member being inclined from points near the center toward the periphery and terminating in spaced relation to the inner wall of the cylinder, wicks resting on the plates and projecting through the cylinder at approximately the top thereof, and an absorbent covering for the cylinder with which the wicks communicate.

1,471,110. LUG STRAP FOR LOOMS. BARTHOLOMEW F. EARLY, Lowell, Mass. Filed Nov. 16, 1920. Serial No. 424,390. 3 Claims. (Cl. 139—165.)



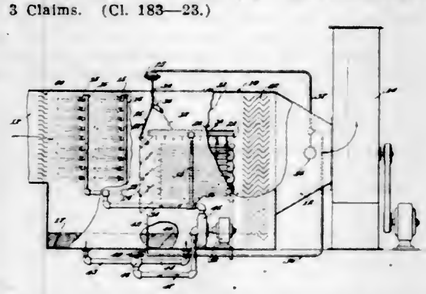
1. A lug strap comprising two loops, one of which is adapted to receive an actuating arm and the other a picker stick, blocks rigidly secured in the adjacent ends of the loops, reduced extensions carried by said blocks, interengaging teeth formed on the opposed faces of the block extensions, and a clamp inclosing the two extensions for adjustably connecting the two loops.

1,471,111. AUTOMATICALLY-LOCKING FLAT CAR FOR CONTAINERS. FRANZ EDER, New Rochelle, N. Y., assignor to River and Rail Transportation Company, St. Louis, Mo., a Corporation of Oklahoma. Filed Nov. 10, 1921. Serial No. 514,309. 10 Claims. (Cl. 105—366.)



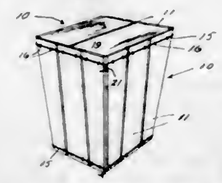
1. In a carrier of the character described having a carrier member and a container member to be locked to said carrier member, the combination of a pivoted hook and a keeper each attached to one of said members, said hook tending to remain in a definite normal position, and means on said keeper for causing said hook to engage said keeper when the container is placed on said carrier.

1,471,112. APPARATUS FOR COOLING AIR. FREDERIC R. ELLIS, Hyde Park, Mass., assignor to B. F. Sturtevant Company, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 13, 1919. Serial No. 344,721. 3 Claims. (Cl. 183—23.)



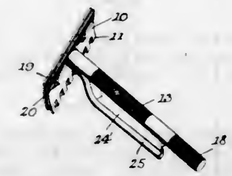
1. An apparatus for cooling air comprising spray nozzles across which the air passes, cooling coils, an air duct by-passing the cooling coils, warm and cold water sumps, means for delivering water from the two sumps to the spray nozzles and cooling coils, means for regulating the flow of air across the coils and through the by-pass duct, and a thermostat for controlling the mixture of water delivered to the spray nozzles and the regulating means for the air.

1,471,113. SHIPPING CRATE. CHARLES O. EWELL, Dyer, Tenn. Filed Aug. 17, 1922. Serial No. 582,445. 1 Claim. (Cl. 217—43.)



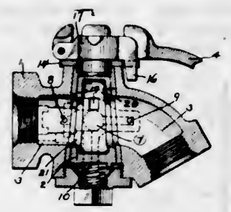
A shipping crate comprising a plurality of similar panels, each including spaced slats connected by upper and lower cleats having mitered ends, each panel being narrower at its lower end than at its upper end, wires secured to all of the panels and having their ends initially free and projecting beyond the edges of the endmost panels, said panels being arranged to define a receptacle and the free ends of the wires being twisted together to retain the receptacle in shape, the mitered ends of the cleats respectively engaging against each other to thereby brace the receptacle, and a top and bottom disposable against said cleats, the bottom being disposed within the receptacle and resting upon the upper faces of the lower cleats and holding the top of the crate expanded, the top resting upon the upper set of cleats, both the top and bottom having transverse cleats adapted to fit inside of the top and bottom cleats of the crate.

1,471,114. SAFETY RAZOR. WALTER W. EVERTS, New York, N. Y., assignor to Everts Angle Razor Corporation, New York, N. Y., a Corporation of Delaware. Filed Aug. 28, 1923. Serial No. 659,835. 12 Claims. (Cl. 30—12.)



9. A safety razor comprising a handle, a guard plate attached to the handle and having teeth arranged at an acute angle with relation to the longitudinal axis of the guard plate, means for holding a blade upon the guard plate, and a finger engaging element extending longitudinally of the handle and of a width for engagement with the major portion of the finger tips, said finger engaging element being arranged at an acute angle to the longitudinal axis of the guard plate.

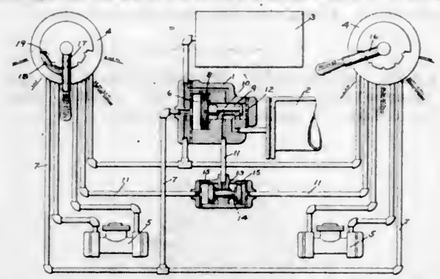
1,471,115. ANGLE-COCK DEVICE. CLYDE C. FARMER, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Nov. 29, 1919. Serial No. 341,448. 4 Claims. (Cl. 277—9.)



1. A cock comprising a body member having a fluid conduit, a plug valve for controlling communication through said conduit, and means subject to the opposing fluid pressures in the conduit at opposite sides of the plug valve and operated by a difference in said pressures for supplying fluid at the higher pressure to one end of the plug valve, to thereby maintain said valve seated.

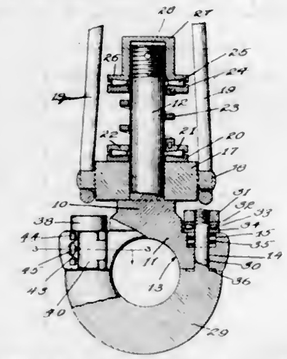
1,471,116. DOOR AND BRAKE CONTROL EQUIPMENT. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 16, 1922. Serial No. 594,787. 4 Claims. (Cl. 303—6.)

1. In a double end fluid pressure brake equipment, the combination with a brake cylinder and a straight air pipe through which fluid is supplied to the brake cylinder, of a brake valve device at each end of the car having a position for supplying fluid under pressure to and a position for releasing fluid from the straight air pipe, a double check valve device operated by fluid supplied through the brake valve at the non-operating end of the



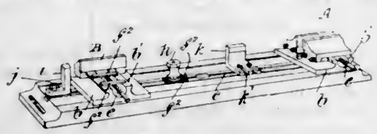
car for establishing communication from the brake valve at the operating end through the straight air pipe to the brake cylinder, and a handle for operating said brake valve at the non-operating end having means for preventing movement to the release position.

1,471,117. DERRICK HOOK. JAMES L. FOSS, Los Angeles, Calif. Filed Aug. 19, 1922. Serial No. 583,006. 5 Claims. (Cl. 24—241.)



1. A derrick hook of the character described comprising a hanger including an apertured plate, a hook body having a shank swiveled to said plate, means permitting a rotation of the shank relative to the hanger, the body having an approximately T-shaped head, a hook pivoted upon one arm of the head and shiftable at right angles to the axis of the shank into or out of a position of alignment with the head, and means automatically locking the hook when in a position of alignment with the head.

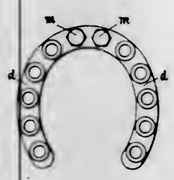
1,471,118. ATTACHMENT FOR SECURING THE WORK TO THE TABLES OF PLANING, MILLING, AND LIKE MACHINES. ENOCH GETHING, Manchester, England, assignor of one-half to George Frederick Tetlow, Manchester, England. Filed Dec. 8, 1921. Serial No. 520,889. 3 Claims. (Cl. 90—60.)



1. An attachment for securing work in proper position to the tables of planing, milling and other like machine tools, consisting of a base plate, two plates slidable in

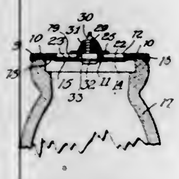
guides in such base plate towards and from each other longitudinally on the base plate, a vise carried by each of such slidable plates and consisting of two jaws slidable laterally across the base plate, the work being clamped and centered in such vises substantially as described.

1,471,119. HORSESHOE. WILLIAM HENRY GILES, Burton-upon-Trent, England. Filed May 1, 1923. Serial No. 635,833. 3 Claims. (Cl. 168—13.)



1. In a shoe for horses and other animals, a threaded stud adapted to be screwed into a shoe and provided with a head spaced from the shoe and having opposite openings disposed in substantial parallelism with the axis of the stud, and a hollow resilient cushion fitted on the head and clamped between the same and the shoe.

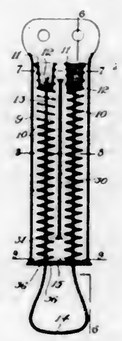
1,471,120. BOTTLE COVER. SIGMUND L. GOLDMAN, Chicago, Ill. Filed Dec. 1, 1922. Serial No. 604,237. 3 Claims. (Cl. 215—63.)



1. A cover device comprising a plate-portion adapted to extend across the mouth of a bottle, a spring device extending across the upper surface of said plate-portion and presenting depending free springy portions which extend below the plane of the under surface of said plate-portion at opposite sides of the latter, said plate-portion being apertured, a shutter cooperating with the apertured portion of said plate-portion and provided with a projection cooperating with the spring to form a stop for limiting the movement of the shutter, projections on said plate-portion for cooperation with said spring in the application of the latter to said plate-portion and so related to the latter and to said shutter that when the latter is moved to a position in which the projection thereon engages said spring in one position of the shutter, a discharge opening for the contents of the bottle to which the device is applied is afforded, and means for holding said spring device in place.

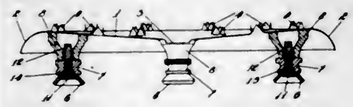
1,471,121. SUSPENDERS. LOUIS W. GRASNICK, New York, N. Y. Filed Sept. 28, 1921. Serial No. 503,888. 4 Claims. (Cl. 267—72.)

1. In a suspender, a connecting member comprising a casing having adjoining tubular chambers, coil springs arranged in said chambers, socket members carried by the upper portions of said springs, and a flexible connection having its end portions extending into opposite chambers and with its intermediate part extending without the chambers, the terminal ends of said flexible connection being secured to said socket members, the cords



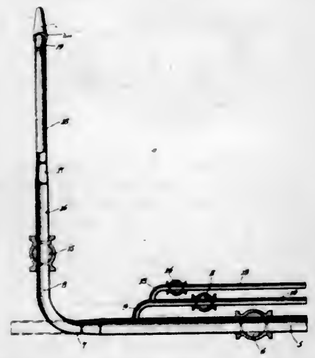
passing flexibly and loosely through the central portions of the coil springs and being relatively small in diameter as compared with the diameter of said springs.

1,471,122. DEVICE FOR FACILITATING THE CARVING OF MEAT, POULTRY, AND THE LIKE. ALFRED JOHN GREAVES, Peckham, London, England. Filed May 18, 1922. Serial No. 561,894. 2 Claims. (Cl. 65—15.)



1. A device for facilitating the carving of meat, poultry or other articles of food on a dish or the like comprising a platform, members detachably attached to the under side thereof, and suction devices detachably attached to the lower ends of the members for gripping the dish.

1,471,123. GAS TORCH. OTTO R. GREINER, Pequannock, N. J. Filed Oct. 2, 1922. Serial No. 591,690. 1 Claim. (Cl. 158—27.4.)



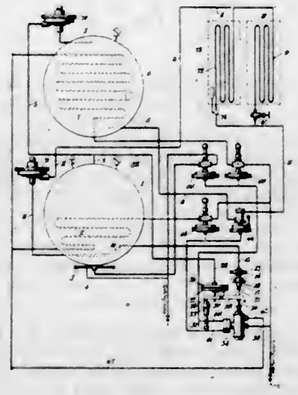
A gas torch for heating comprising a gas pipe, an air pipe entering said gas pipe, an oxygen pipe entering said air pipe, independent cocks on each of said pipes, a reduced extension on said gas pipe, a regulating cock on said extension, and means for engaging a burner tip on the end of said extension.

1,471,124. MEANS FOR CONNECTING FERRO OR REENFORCED CONCRETE PILES TO WOODEN PILES. EGON HANDL, Amsterdam, Netherlands. Filed July 14, 1923. Serial No. 651,644. 2 Claims. (Cl. 61—53.)



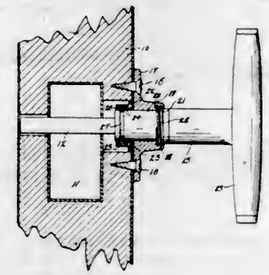
1. A pile comprising a wooden base provided with a reduced cylindrical portion; a metal sleeve on said reduced portion extending beyond the end of said base; and a concrete upper portion on said base having an internal, axial core which extends into and fills the projecting upper portion of said sleeve and entirely surrounds said sleeve.

1,471,125. REFRIGERATING MACHINE. CYRUS H. HAPGOOD, New York, N. Y., assignor to George P. Carroll, Hartford, Conn. Filed Aug. 11, 1910. Serial No. 316,815. 7 Claims. (Cl. 62—5.)



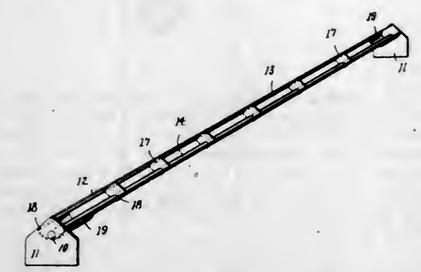
1. In an absorption refrigerating apparatus including a still, a condenser and an evaporator in circuit, a first device for transmitting cooling water to the still, a second device for transmitting the refrigerant from the condenser into the evaporator, a third device for supplying a heating medium to the still, a fourth device for transmitting cooling water to the condenser, a valve communicating with said devices, and means at a high pressure limit in the still actuating the valve to transmit fluid to suspend the operation of the first and second devices and to operate the third and fourth devices, at a high temperature limit in the still actuating the valve to transmit fluid to suspend the operation of the third and fourth devices and upon a cooling down of the still actuating the valve to transmit fluid to operate the first and second devices.

1,471,126. VEHICLE-DOOR HANDLE. FRANKLIN H. HART, New Haven, Conn., assignor to C. Cowles and Company, New Haven, Conn., a Corporation of Connecticut. Filed Aug. 23, 1921. Serial No. 494,449. 4 Claims. (Cl. 292—356.)



1. In a device of the class described a handle having a stem provided with two spaced relatively stationary shoulders, an escutcheon between said shoulders providing a bearing for said stem and adapted to be rigidly secured to a door, and a ball thrust bearing between the escutcheon and one of said shoulders comprising a ring having openings therethrough and balls in said openings projecting beyond the opposite faces of the ring, and a spring between the escutcheon and the other shoulder and arranged to press the first shoulder against said thrust bearing.

1,471,127. SMOKESTICK. JOHN HENKE, New Haven, Conn. Filed Feb. 28, 1923. Serial No. 621,768. 4 Claims. (Cl. 99—2.)

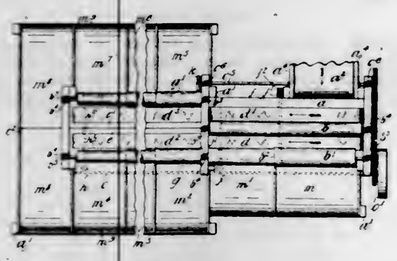


1. A series of longitudinally disposed rods arranged in rectangular relation and one of the rods forming the uppermost portion of the angle, another one the lowermost portion and the remaining two rods the opposite side portions, means for tying together and supporting the rods in said relative position, and end supporting pieces secured to the said rods to provide a support for the end portions of the stick.

1,471,128. GRADING MACHINE PRINCIPALLY FOR FRUIT. JOSEPH LEONARD HOLLAND, Shepparton, Victoria, Australia. Filed Jan. 15, 1923. Serial No. 612,800. 14 Claims. (Cl. 130—32.)

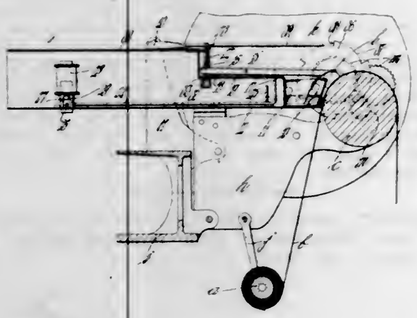
1. In a grading machine, a transversely inclined table to receive articles to be graded, a grading roller over the

upper part of said table, another grading roller, said latter roller being stepped and over a lower part of the said



table, and means for rotating the rollers in the direction opposed to that in which articles to be graded move by gravity.

1,471,129. RECORDING MECHANISM. DANIEL S. HOLT, Mittineague, Mass. Filed Oct. 13, 1921. Serial No. 507,503. 15 Claims. (Cl. 234—1.5.)



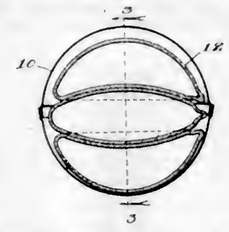
1. In recording apparatus, means for driving a record strip, a marking device to cooperate with the strip, a holder for said device consisting of a member having substantially the cross-sectional shape of an inverted U, and two pins mounted in longitudinally spaced relation and each having a portion received between the parallel sides of said member to restrain the latter from transverse displacement.

5. In recording apparatus, means for driving a record strip, a marking device to cooperate with the strip, means for gradually moving said device transversely a predetermined distance during a definite time interval and then suddenly returning it to its original position, and means operable intermittently as and when desired for moving said device transversely.

14. In a recording apparatus, means for driving a record strip, a marking device to cooperate therewith, two spaced upstanding pins, a holder for said device suitably recessed to slip over said pins, and means for moving one of said pins transversely of the holder.

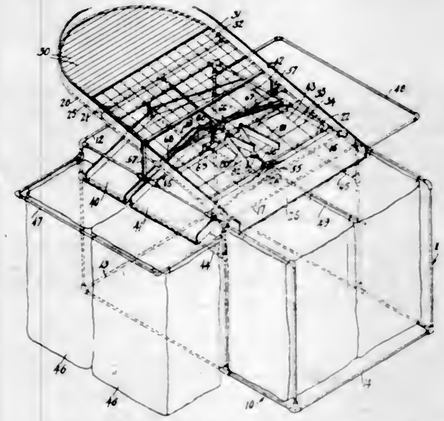
1,471,130. APPARATUS FOR THROWING LIQUIDS. FRANK C. HUGHES, Oak Park, Ill. Filed Dec. 15, 1921. Serial No. 522,684. 2 Claims. (Cl. 102—29.)

1. A bomb, comprising a substantially spherical shell, said shell containing three frangible containers, including a central substantially disk-shaped container and two substantially mushroom-shaped containers, said three



containers adapted to nest within the shell and substantially fill the same.

1,471,131. SEPARATING DEVICE. WILLIAM M. ADAMSON, New Brighton, N. Y. Filed Feb. 13, 1922. Serial No. 536,181. 2 Claims. (Cl. 130—32.)



1. A device for separating material according to size comprising a shaker, a support, and means for movably connecting said shaker to said support so that said shaker may be rotated laterally and vertically and reciprocated vertically, said means comprising a bar carried by said shaker, a yoke in which said bar is swiveled to permit rotation laterally, said support comprising a cross-bar, said yoke being pivoted on said cross-bar to permit rotation of said shaker vertically, said yoke having elongated openings through which said cross-bar extends, said openings permitting vertical reciprocatory movement of said shaker.

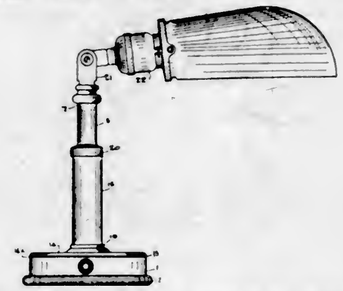
1,471,132. TROLLEY-WIRE SUPPORT. ALF E. ANDERSON, Milton, Mass., assignor to Albert & J. M. Anderson Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed June 29, 1923. Serial No. 648,491. 4 Claims. (Cl. 191—44.1.)



2. A trolley wire support having a bore or passage for the reception of the trolley wire and provided on its interior wall with a plurality of lugs or projections arranged out of line with each other on opposite interior walls of said bore, and means co-operating with said trolley wire and with said lugs to move the trolley wire

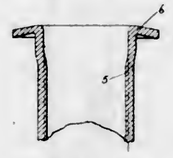
within said bore toward said lugs and cause the latter to move portions of the trolley wire in opposite directions and laterally with relation to that in which it is moved by said means.

1,471,133. PORTABLE ELECTRIC LAMP. JOHN CLAUDE ARMOUR, Montreal, Quebec, Canada. Filed May 31, 1922. Serial No. 564,973. 1 Claim. (Cl. 240—52.)



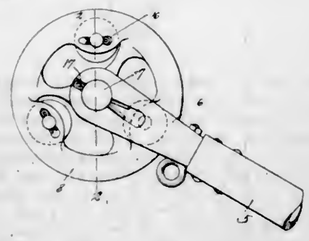
A portable electric lamp comprising a base and a central post adapted together to form a permanent cord receptacle and passage leading from a cord inlet in the base wall to a cord outlet to the lamp at the top of said post, a spring stop intermediate of the height of said post, a spring around the outer surface of said post under said stop, a clamping plate normally spring-held to said base and encircling said post, and a hollow stem projecting upwardly from and rigidly secured to said plate and enclosing said spring and compressing the same against said stop on the operation of said stem.

1,471,134. METHOD OF MAKING WHEEL HUBS. CHARLES S. ASH, Geneva, N. Y. Filed Aug. 10, 1918, Serial No. 249,279. Renewed Mar. 16, 1923. 5 Claims. (Cl. 29—174.)



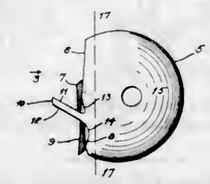
1. The method of making a wheel hub, which includes expanding the walls of a metal tube at its end to increase the end bore diameter, and then cutting away the inner walls of the unexpanded portion of the tube to increase the bore diameter thereof.

1,471,135. TROLLEY. WILLIAM A. BARTLETT, Baltimore, Md. Filed Mar. 1, 1923. Serial No. 622,013. 7 Claims. (Cl. 191—63.)



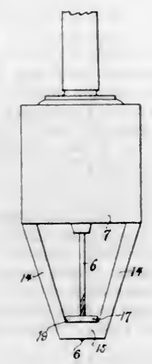
1. The combination with a trolley-wheel having a grooved periphery; of a plurality of guard rollers carried by said wheel and journaled transversely of its groove, said rollers having grooved peripheries and the bottom of the roller grooves coinciding with the bottom of the trolley-wheel groove, the side walls of the roller grooves having portions which overhang said grooves.

1,471,136. SCISSORS SHARPENER. AUGUST BORLEIS, Raspeburg, Baltimore, Md. Filed June 13, 1922. Serial No. 567,919. 2 Claims. (Cl. 76—88.)



1. In a scissors sharpener, the combination of a body having a concave side, a sharpening device on said body and means on said body for guiding scissors blades with reference to said device during the sharpening operation, said side being so located with reference to said device that when the thumb of the left hand is applied to said side, said device will be in the proper location for the application of said blades to said device.

1,471,137. DRILL-GUIDE ATTACHMENT FOR CHUCKS. LOUIS G. BOWMAN, Chicago, Ill. Filed Mar. 11, 1921. Serial No. 451,536. 1 Claim. (Cl. 77—55.)

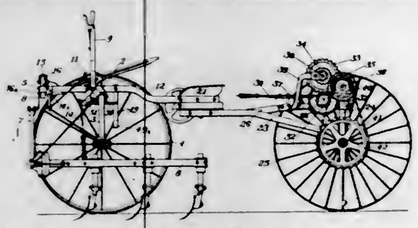


The combination with a rotary chuck, of a drill carried thereby, a sleeve surrounding the chuck and formed with diametrically opposed longitudinally disposed bores extending downwardly from the upper end thereof, the lower ends of the bores forming seats, said sleeve being formed with diametrically opposed slots communicating with said bores, guide pins fixed to the chuck and extending into said slots, coil springs respectively disposed in said bores and arranged between the seats thereof and said pins, and a guide for the drill carried by the sleeve and disposed below the chuck.

1,471,138. MOTOR CULTIVATOR. THEOPHILUS BROWN, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Original application filed Mar. 23, 1917. Serial No. 156,995. Divided and this application filed June 15, 1920. Serial No. 389,063. 5 Claims. (Cl. 97—232.)

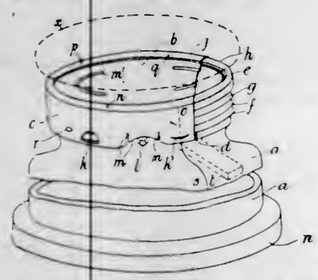
1. A tractor-pushed tillage implement, comprising a front frame, wheels supporting said frame, tilling devices

connected with said frame, a rear frame, one or more power-driven wheels supporting said rear frame, and an



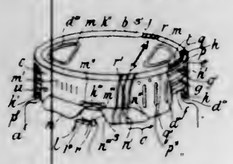
intermediate frame connecting said front and rear frames and angularly adjustable with reference to each of said frames.

1,471,139. CLOSURE FOR BOTTLES, TINS, JARS, CONTAINERS, AND RECEPTACLES. ROBERT STANLEY BROWN, London, England. Filed Nov. 1, 1921. Serial No. 512,153. 10 Claims. (Cl. 215—38.)



1. A closure combination comprising a receptacle provided with at least one exterior engaging grip constructed to effect its engagement in a shouldering like manner at a substantially uniform engaging height with respect to the said receptacle's axis and a lid's rim inwardly deformed (after application to the said receptacle) at well separated space intervals to form locks adapted to engagingly coact with the said receptacle's gripping provision, such locks having (below the level of their engagement) side supporting connection with a non-locking portion of the said rim, said locks being so accessibly disposed with respect to said receptacle as to admit of said rim's removal without destruction of the non-locking portion of the rim said rim being so constructed as to be sufficiently pliable to readily re-distort outwards on inside pressure being applied to its locks.

1,471,140. CLOSURE FOR BOTTLES, TINS, JARS, CONTAINERS, AND RECEPTACLES. ROBERT STANLEY BROWN, London, England. Filed Nov. 1, 1921. Serial No. 512,154. 14 Claims. (Cl. 215—38.)



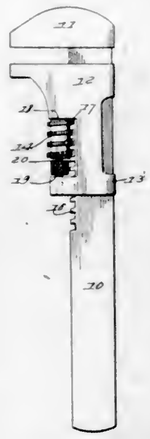
1. A closure for receptacles comprising a lid provided with a rim, said rim being provided with at least one lock adapted to engage a corresponding receptacle's grip and some extent of said rim simultaneously being adapted to be inwardly deformed sufficient to result in at least one lock becoming outwardly moved substantially to a position of broken engagement with respect to its coacting said grip.

1,471,141. CENTRIFUGAL FAN. GEORGE MARIE CAPELL, deceased, late of Passenham, near Stony Stratford, England, by Robert Alfred Blake, London, England, and Kathleen Marie Dawes, commonly called Capell, St. Lawrence, Isle of Wight, England, legal representatives. Filed Sept. 9, 1922. Serial No. 587,129. 3 Claims. (Cl. 230—11.)



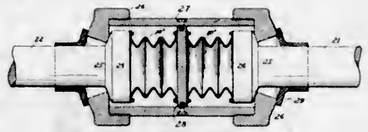
1. In a centrifugal fan, an apertured main vane curved in the direction of rotation extending from the periphery into the eye of said fan, a tail blade curved contrary to the direction of rotation extending from the periphery and contacting with said main vane and located behind the aperture in said main vane, and an intermediate short vane curved in the direction of rotation extending from the periphery partway towards the eye of said fan behind said tail blade.

1,471,142. WRENCH. ALVA A. CRESS, Detroit, Mich. Filed Feb. 1, 1922. Serial No. 533,245. 1 Claim. (Cl. 81—162.)



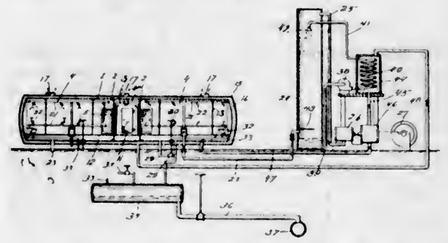
A wrench having a shank provided with a rigid jaw, a movable jaw mounted to slide upon said shank and cut away to provide spaced shoulders between which is exposed a rack formed on the shank, a spindle spanning said shoulders and having a threaded portion engaging an interiorly threaded hole communicating with one shoulder, an adjusting screw slidably mounted on the spindle and engaged with the rack on the shank, and a lock nut carried by the threaded portion of the spindle and movable into abutting engagement with the adjacent shoulder or into abutting engagement with one end of the adjusting screw to force the latter into contact with the remaining shoulder in the manner and for the purpose specified.

1,471,143. UNIVERSAL JOINT. JOHN C. CROMWELL, Cleveland, Ohio. Filed Feb. 17, 1920. Serial No. 359,406. 16 Claims. (Cl. 64—89.)



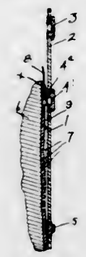
1. A universal joint, comprising a driving member, a driven member, and a plurality of metallic flexible tubular driving connections between said members, substantially as described.

1,471,144. THERAPEUTIC APPARATUS. ORVAL J. CUNNINGHAM, Kansas City, Mo. Filed Oct. 25, 1920. Serial No. 419,380. 8 Claims. (Cl. 128—204.)



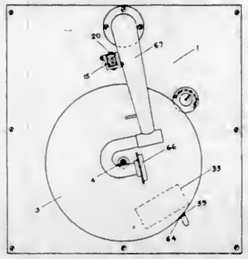
1. Therapeutic apparatus, comprising a tank provided with a plurality of compartments and a vestibule, doors controlling communication between the vestibule and said compartments and adapted to be held closed by air pressure within the latter, and means for supplying air under pressure to said compartments; said vestibule containing a door co-operating with one of the first-named doors to prevent accidental opening of the latter into its respective compartment should pressure be established in the vestibule equal to or greater than that of said compartment.

1,471,145. POWDER PUFF. WILLIAM F. DEAN, Johnstown, N. Y., assignor to Golun Fur Novelty Co., Johnstown, N. Y., a Partnership composed of William F. Dean, Fred Lunkenheimer, and William Gould. Filed Jan. 25, 1922. Serial No. 531,534. 2 Claims. (Cl. 132—78.5.)



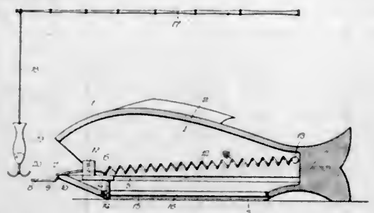
1. A powder distributor comprising a flexible main back portion, a flexible front portion, means for securing the two portions together to form a pocket and leaving a filling space for said pocket through which the powder may be inserted in the pocket, the flexible front portion consisting of sheep skin tanned with the wool thereon and provided with perforations through which the powder may pass, the wool of the skin automatically operating to regulate the movement of the powder through the perforations.

1,471,146. PHONOGRAPH STOP MECHANISM. WILLIAM W. DEAN, Lowell, Mass., assignor to The Efficiency Electric Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 15, 1922. Serial No. 552,986. 12 Claims. (Cl. 192—119.)



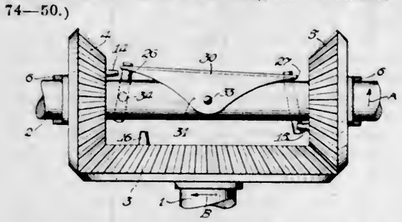
1. In a pre-set phonograph stop mechanism, the combination with a phonograph starting lever, said lever adapted to have normal and advanced operative positions, a phonograph turn-table, motor means to rotate the said turn-table, said motor means being responsive to the movement of the said lever from its normal to its advanced position to rotate the said turn-table, electromagnetic means adapted when energized to restore the said lever from its advanced to its normal position, an electric switch controlling the energization of the said electromagnetic means, and means responsive to the movement of the tone arm to substantially its end-of-record playing position to operate the said switch.

1,471,147. TOY. JOHN A. DIENNER, Chicago, Ill. Filed Aug. 25, 1920. Serial No. 405,880. 7 Claims. (Cl. 46—40.)



1. In combination, a hollow body member, a spring having one end secured in said member, a movable engaging piece substantially horizontally extending out of the body member, said piece having a detent, said spring being connected to said piece and being adapted to draw said piece into the body member when the detent is released and means for moving said engaging piece forward against the tension of the spring.

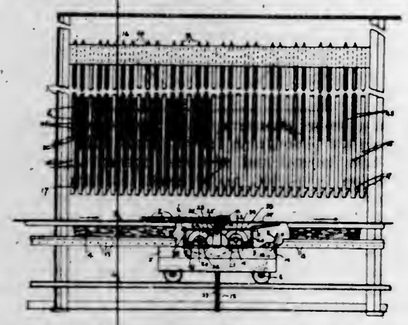
1,471,148. REVERSING MECHANISM. JOHN A. DIENNER, Chicago, Ill., assignor to Walter J. Conlon, Cicero, Ill. Original application filed Mar. 13, 1919, Serial No. 282,370. Divided and this application filed Jan. 25, 1922. Serial No. 531,595. 8 Claims. (Cl. 74—50.)



1. In combination, a first shaft, a pair of pinions on said shaft, a second shaft, a gear on said second shaft mesh-

ing with said pinions, one of said shafts driving and the other being driven, and clutch mechanism adapted to alternately clutch said pinions to said first shaft, said clutch mechanism comprising a rocking member extending along the outside of and pivoted directly to said first shaft at an angle to the axis thereof, said member being alternately rocked about its pivot in effecting the clutching and unclutching of said pinions.

1,471,149. LUMBER MOVING AND STORAGE MEANS. ROBERT Z. DRAKE, Omaha, Nebr. Filed Oct. 5, 1922. Serial No. 592,459. 12 Claims. (Cl. 214—16.)



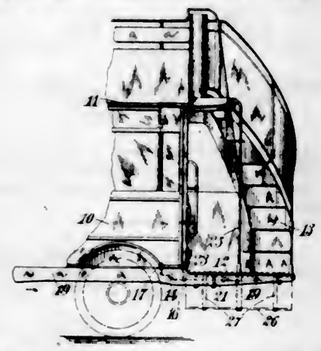
1. In lumber moving and storage means for a seasoning house, a plurality of hanger-bars disposed in approximately parallel, adjacent sections and secured in an upright position in the seasoning house, catch-members mounted on the hanger-bars, and an upright carrier below the hanger-bars movable for moving lumber between two sections of hanger-bars to be supported by said catch-members.

1,471,150. PROCESS FOR THE PREPARATION OF DYESTUFFS. KAROL DZIEWOŃSKI, Cracow, Poland. Filed Mar. 3, 1921. Serial No. 449,590. 3 Claims. (Cl. 260—53.)

3. A process for the preparation of dyestuffs, consisting in heating 10 parts of dinaphthylenethiophene with 40 parts of concentrated and two parts of fuming sulphuric acid for 8 hours, diluting the sulphonated mixture in water, separating by filtration the sulphoacids soluble in water from the insoluble products of reaction, neutralizing the reddish-brown product with milk of lime, separating by the filtration the soluble calcium salt from the insoluble calcium salt, extracting the precipitated difficultly soluble calcium salt by a dilute solution of sodium carbonate and drying the hereby obtained sodium salt.

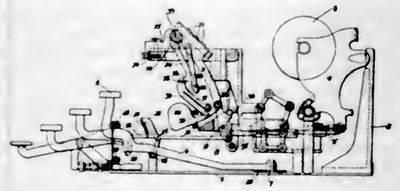
1,471,151. PASSENGER VEHICLE. SAMUEL GAGE, Holloway, London, England, assignor to The London General Omnibus Company, Limited, Broadway, Westminster, England. Filed Dec. 27, 1920. Serial No. 433,095. 2 Claims. (Cl. 296—24.)

1. In a double-deck motor-driven omnibus, the combination of an enclosed body constituting the lower-deck and having a door-opening in the rear end thereof, an upper-deck terminating at its rear end substantially with the rear end of said body, a seatless platform distinct from and situated outside the rear end of said body and affording the means of ingress to and of egress from the body through said door-opening, a staircase having its lower end attached to said platform and extending therefrom outside the body and the said upper-deck, a chassis having main longitudinals which support the bottom of said body and have rear portions that extend beyond the rear end of the body on which rear portions the platform is seated, whereby its weight and the weight of the staircase is borne by the same, and platform-bars secured at their one end directly to the underside of the bottom of said body, which bars ex-



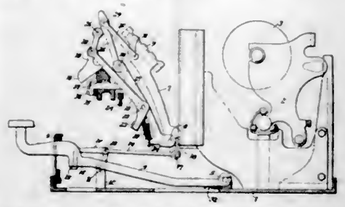
tend under and are attached to the platform for securing the latter and the bottom of the staircase in correct position in relation to the body, substantially as described.

1,471,152. TYPEWRITING MACHINE. GEORGE G. GOING, Middletown, Conn., assignor, by mesne assignments, to The Noiseless Typewriter Company, Inc., a Corporation of Delaware. Filed Aug. 11, 1919. Serial No. 316,609. 24 Claims. (Cl. 197—25.)



1. In a typewriting machine, in combination, a platen, a key lever, a swinging type bar, operating connecting means between said key lever and type bar whereby the former actuates the latter, and a motion governing means kinematically linked to the type bar independently of said connecting means, including an independent energy storing member, and arranged to control the entire swing of the type bar toward the platen, storing energy during the initial movement and expending the same during the completion of the printing stroke.

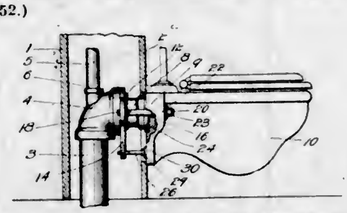
1,471,153. TYPEWRITING MACHINE. GEORGE GOULD GOING, Middletown, Conn., assignor, by mesne assignments, to The Noiseless Typewriter Company, Inc., a Corporation of Delaware. Filed Mar. 21, 1921, Serial No. 453,983. Renewed Mar. 31, 1923. 6 Claims. (Cl. 197—25.)



1. In a typewriting machine in combination, a platen, a key lever, a pivoted type bar, operative connecting means between said key lever and said type bar to

effect initial movement of the latter on its stroke toward said platen, a sub-lever pivoted to swing about a fixed axis of motion, an element pivotally connected to said sub-lever, and operative connections between said element and said type bar adjacent the type head of the latter, said connections effecting a storage of energy in said element during the movement of said type bar as propelled by said key lever and an expenditure of said stored energy thereafter to complete the printing stroke of said type bar.

1,471,154. WALL HANGER FOR PLUMBING FIXTURES. JAMES P. GRAHAM, Kansas City, Mo. Filed May 9, 1921. Serial No. 467,836. 3 Claims. (Cl. 4—252.)



1. Means for supporting a plumbing fixture above the floor, said means comprising a bracket plate having an opening therethrough and bolt-receiving slots arranged in circular series about the opening, means for bolting the plumbing fixture to the plate, and stop means carried by the lower portion of the plate against which the lower portion of the plumbing fixture may abut.

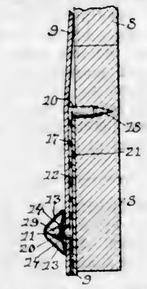
1,471,155. COMBINATION STEPLADDER AND STOOL. FRED L. GRIFFIN, Bozeman, Mont. Filed Feb. 4, 1922. Serial No. 534,011. 1 Claim. (Cl. 155—42.)



A combined stool and stepladder consisting of four vertical legs rigidly braced on two sides of the rectangle formed thereby by transverse rungs; a top or seat rigidly supported on the legs at one end and covering the entire rectangle, and a series of steps offset from each other to form an inclined flight extending from the seat to the free end of the legs, so that the structure forms a stool in one position and a stepladder when invented.

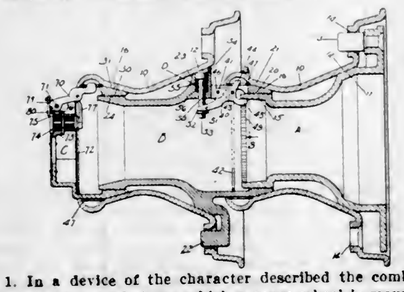
1,471,156. ROLL-ROOFING FASTENER. ALBERT ABBE GAISWOLD, Providence, R. I. Filed June 7, 1922. Serial No. 566,618. 5 Claims. (Cl. 108—33.)

1. In a roof construction and the like overlapping strips of roll roofing; means for securing the roll roofing to the roof, consisting of roll roofing fasteners each comprising spaced under and upper fastening members the under fastening member having a roof penetrating portion, a roll roofing clamping portion and a portion



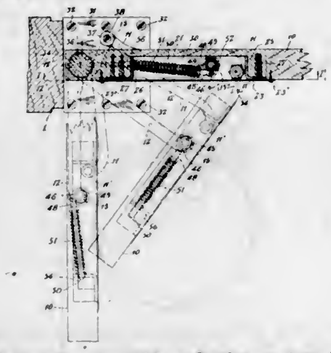
with locking means and the upper fastening member having means for locking it to the locking means of the under fastening member, for the purpose as described.

1,471,157. WHEEL. FRANK A. GRUBER, Buffalo, N. Y., assignor to Wire Wheel Corporation of America, Buffalo, N. Y., a Corporation of New York. Substitute for application Serial No. 298,168, filed May 19, 1919. This application filed Dec. 20, 1920. Serial No. 431,920½. 8 Claims. (Cl. 224—29.)



1. In a device of the character described the combination of a dummy hub, on which a spare wheel is mounted, an adapter for holding said wheel in place and on which a second wheel is mounted, a hub cap for holding said second wheel in position and means controlled by said second wheel for locking said adapter in place on said dummy hub.

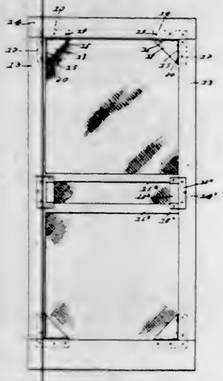
1,471,158. HINGE. WILLIS R. HORNBERGER, East Cleveland, Ohio. Filed Aug. 2, 1922. Serial No. 579,104. 8 Claims. (Cl. 16—185.)



1. The combination with a flooring, a door jamb and a door; of a pair of links forming each of the top and bottom hinges; a jamb plate and a floor plate secured

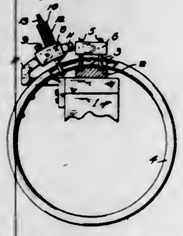
adjacent the ends of one vertical edge of the door, said jamb plate and said floor plate each being formed with two, and one end of each of the four links being formed with one, cooperating bearing surfaces and journal surfaces, and a pair of door plates secured respectively to the top and bottom edges of the door, said door plates and the other ends of the four links being formed with cooperating bearing and journal surfaces, the respective pairs of pivotal attachment points for the links being adjacent, the distance between the respective jamb and floor pivotal attachment points being greater than that between the respective door pivotal attachment points.

1,471,159. JOINT MEMBER FOR SCREEN FRAMES AND THE LIKE. THOMAS HOWIE and ARTHUR J. JACKSON, Battle Creek, Mich. Filed May 16, 1922. Serial No. 561,417. 1 Claim. (Cl. 20—92.)



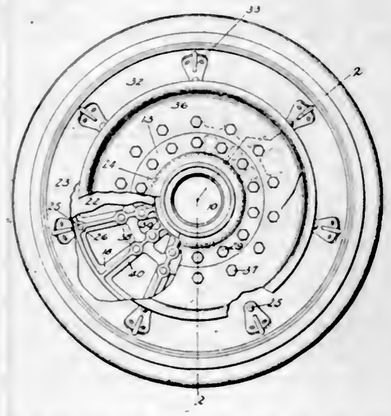
A jointing device for connecting two parallel frame members with a member disposed at an angle thereto, said members at their place of meeting having aligned saw kerfs, said device comprising a plate having a folded reinforcing flap arranged in parallelism with the body portion of the plate and carrying marginal fastening wings for contact with an attachment to the inner facing surfaces of the frame members, the marginal portions of said plate engaging in said saw kerfs and said fastening wings having extensions forming supplemental fastening wings for contact with and attachment to the corresponding side surfaces of said frame members.

1,471,160. METHOD OF FORMING NIPPLE SOCKETS IN WHEEL RIMS. HENRY A. HOUSE, Jr., Springfield, Mass., assignor to Wire Wheel Corporation of America, Buffalo, N. Y., a Corporation of New York. Filed Sept. 4, 1918. Serial No. 252,672. Renewed Apr. 4, 1923. 2 Claims. (Cl. 113—116.)



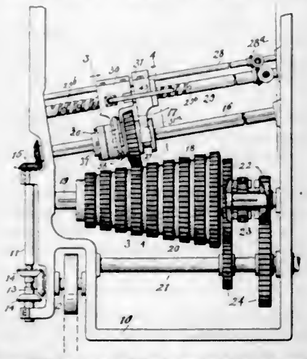
1. The method of treating metal rims for wire spoked wheels in which the spokes are inclined at various angles, consisting in, first forming hemispherical indentations by a punch operating at right angles to the surface of the rim, second reshaping a portion of the inner wall of the depression by a pyramidal punch operating at an angle to the surface of the rim other than a right angle and third, perforating said depression at the center of the reshaped portion by a punch operating at the same angle as the pyramidal punch.

1,471,161. WHEEL. HENRY A. HOUSE, Jr., Buffalo, N. Y., assignor to Wire Wheel Corporation of America, Buffalo, N. Y., a Corporation of New York. Filed Mar. 26, 1919. Serial No. 285,203. 12 Claims. (Cl. 301—63.)



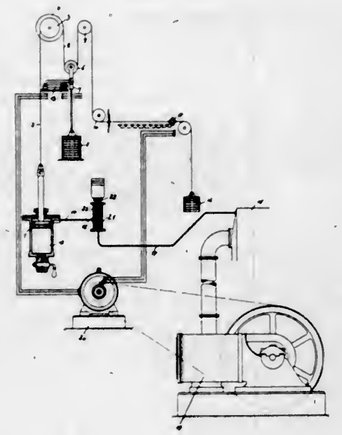
6. A wheel having in combination a hub unit and an intermediate unit, said intermediate unit comprising a spider having annular rows of bosses, a plurality of disks arranged at each side of said spider having annular rows of holes corresponding to said annular rows of bosses and clamping means passing through said inner and outer rows of holes and bosses to rigidly secure said spider and disks together, said hub unit having radial flanges extending each side of said intermediate unit and having an annular row of holes corresponding to the mediate rows of bosses on said spider and the mediate row of holes in said disks and clamping means extending through said mediate rows of bosses and holes rigidly securing said hub and intermediate units together a rim unit and means securing said rim to said disks.

1,471,162. MULTIPLE-SPEED DRIVE MECHANISM. DOMENICO IACOBACCI, Cleveland, Ohio. Filed Oct. 11, 1920. Serial No. 415,976. 15 Claims. (Cl. 74—5.)



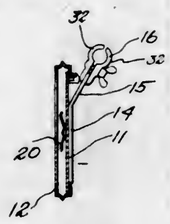
1. In a multiple speed drive mechanism, a pair of relatively fixed shafts one inclined with respect to the other and one being provided with a plurality of gears of different sizes and the other with a single gear adapted to have driving engagement with any one of the different sized first named gears, and means for engaging and disengaging the gears by causing a relative movement thereof transversely with respect to the relatively fixed shafts and for causing an axial relative movement thereof while disengaged, the second named shaft being rotatable with the gear which it carries, and a power transmitting means connected to one of said shafts.

1,471,163. SWITCH-ACTUATING DEVICE. PETER IBACH, Konigswinter, Germany. Filed June 28, 1920. Serial No. 392,466. 1 Claim. (Cl. 103—25.)



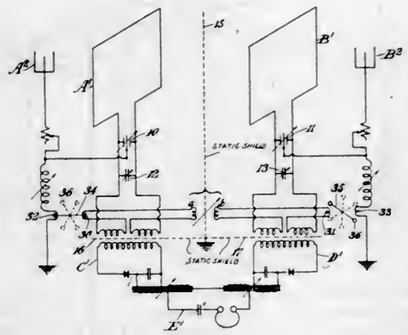
In a device of the kind described in combination, a pressure pump and an electromotor for operating said pump, a piston adapted to be displaced by an excess pressure generated by said pump, a rope connected at one end to said piston, a weight acting on the other end of said rope, a larger weight acting on said rope intermediate its ends, a motor starter operatively connected to said rope intermediate said weights and a supply switch adapted to be influenced by said larger weight.

1,471,164. SIGN HOLDER. WOLDMAR HEINRICH IMPOL, New York, N. Y. Filed Dec. 30, 1922. Serial No. 609,784. 1 Claim. (Cl. 40—125.6.)



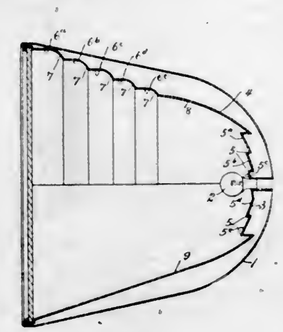
A sign holder comprising a plate, means for supporting said plate, channel members rigidly secured to three sides of said plate, a channel member hingedly connected to the upperside of said plate, and spring means normally urging the last named channel member into co-operation with the first named channel members to retain a sign in place.

1,471,165. RADIORECEPTION. LESTER L. ISRAEL (now by judicial change of name Lester L. Jones), New York, N. Y. Filed July 19, 1920. Serial No. 397,167. 18 Claims. (Cl. 250—20.)



3. In the art of radio communication, the method of receiving signals which comprises absorbing electro-magnetic energy from the atmosphere in two receiving antennas, periodically and alternately tuning said receiving antennas to and slightly detuning them from the signal wave, said periodic tuning and detuning being at audio frequency, rectifying the currents originating in each of the antenna systems, and combining the rectified currents in opposition in a connecting circuit.

1,471,166. HEADLIGHT. CHARLES A. JONES, Sewickley, Pa. Filed July 26, 1920. Serial No. 399,069. 3 Claims. (Cl. 240—41.)

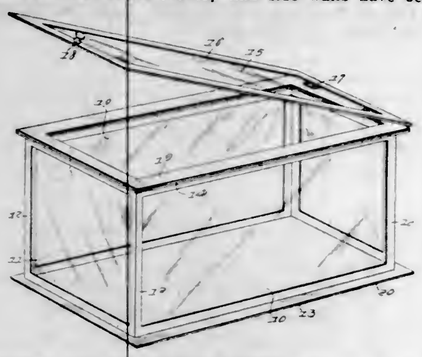


1. In a headlight having a lamp therein, a reflector disposed to the rear of said lamp and a plurality of horizontal ribs forming inclined reflecting faces on said reflector, a reflecting casing extending forwardly of said rear reflector, a non-reflecting band in said casing adjacent said rear reflector, and a plurality of ribs on the forward upper portion of said casing having reflecting faces substantially parallel to the longitudinal axis of the headlight.

1,471,167. FRUIT PROTECTOR. HENRY JUNG, Bloomer, Wis. Filed June 10, 1921. Serial No. 476,439. 2 Claims. (Cl. 217—58.)

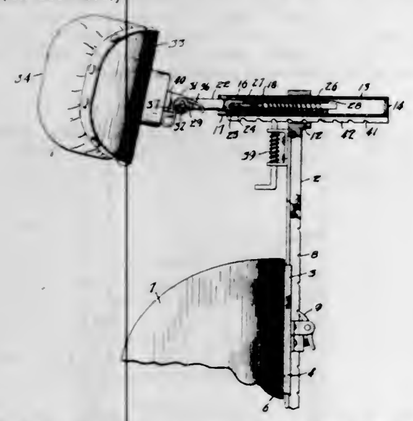
1. A protective show case for vegetable food products having transparent side and end walls, an open bottom, and an open top fitted with a movable lid or cover and

adapted to be fitted over the bottom of a shipping box or case from which the top and side walls have been



removed, said case having a skeleton frame of sheet metal comprising corner standards and top and bottom rims in which the edges of transparent fillers are seated.

1,471,168. HEADREST FOR AUTOMOBILE SEATS AND THE LIKE. BENJAMIN KATZ, Oakland, Calif. Filed Feb. 24, 1921. Serial No. 447,368. 4 Claims. (Cl. 155—177.)



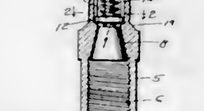
1. A head rest for automobile seats and the like, comprising a vertically adjustable standard, a transversely adjustable member mounted in said standard, a spring pressed reciprocative element supported by said member, and a rest carried by said element.

1,471,169. APPARATUS FOR THE PRODUCTION OF DESIGNS IN PAPER, MILLBOARD, VEGETABLE LEATHER SUBSTITUTE, AND LINOLEUM SUBSTITUTE. FREDERICK KAYE, Ashton-upon-Mersey, England. Filed Dec. 9, 1922. Serial No. 606,006. 2 Claims. (Cl. 92—39.)



1. Apparatus for carrying out a process for producing inlaid pattern effects in paper, millboard, vegetable leather substitute and linoleum substitute, consisting of a hand-making mould and a deckle therefor having a sheet-like part which overlies the wire gauze of the mould, and has formed in it a design as in fret work, and a layer of rubber applied to the underside of the said sheet-like part, with its inner edge agreeing in outline with that of the design in the said sheet-like part, as set forth.

1,471,170. APPARATUS FOR THE PRODUCTION OF DESIGNS IN PAPER, MILLBOARD, VEGETABLE LEATHER SUBSTITUTE, AND LINOLEUM SUBSTITUE. FREDERICK KAYE, Ashton-upon-Mersey, England. Filed Dec. 9, 1922. Serial No. 606,007. 1 Claim. (Cl. 42—42.)

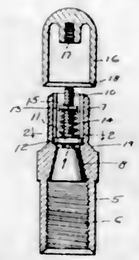


Apparatus of the character described comprising a hollow cylinder, spaced bands extending from the surface of the cylinder and circumferentially thereof, means for securing strips of gauze to the bands whereby the working surface is raised above the surface of the cylinder to produce the outline of a design, and a non-porous jacket surrounding that portion of the cylinder free from gauze.

1,471,171. ANTICREEPING DEVICE FOR RAILWAY RAILS. CHARLES H. KNELL, Verona, Pa., assignor to Verona Tool Works, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 13, 1923. Serial No. 645,085. 7 Claims. (Cl. 238—324.)

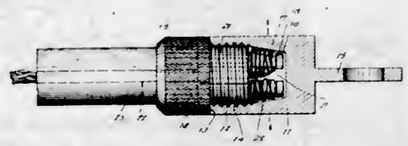
1. In a rail anchor, a body of substantially flat material bent edgewise upon itself at one end to form a rail base flange receiving loop, and bent flatwise upon itself at the other end to form a key abutting shoulder, said shoulder being inclined upwardly and inwardly, and a key adapted to be driven between the opposite edge of the rail base and said shoulder, substantially as described.

1,471,172. METAL AIR-CHECK VALVE. LEWIS F. KNIGHT, Simpson, Kans. Filed Nov. 20, 1922. Serial No. 602,315. 1 Claim. (Cl. 152—12.)



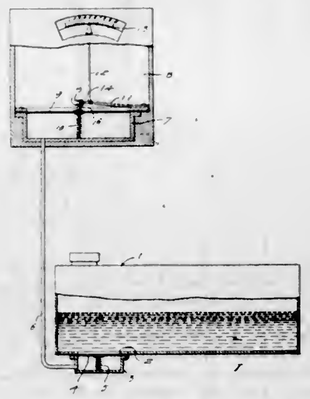
An all metal auxiliary air valve for tires comprising in combination a casing internally threaded at its lower portion for engagement with the usual externally threaded valve tube of a pneumatic tire, and an upper end externally threaded for engagement with an air pump, a cap fitting over the said externally threaded upper end and carrying a centrally disposed internally threaded tubular member, a valve comprising a frusto conical metallic body having an upwardly projecting threaded stem engageable by the internally threaded tubular member and an angular portion between the stem and body, a fixed element having an angular opening therethrough in which the said angular portion of the valve is engaged to prevent said valve from turning, a spring surrounding said valve stem, a member carried by the valve stem against which said spring bears to force said valve stem outwardly, and a valve seat integral with the casing and conforming in shape to the valve as and for the purposes set forth.

1,471,173. TERMINAL FOR ELECTRIC-CONDUCTOR WIRES. JOHN ANTON KULIER, Brooklyn, N. Y. Filed Mar. 24, 1920. Serial No. 368,237. 2 Claims. (Cl. 173—269.)



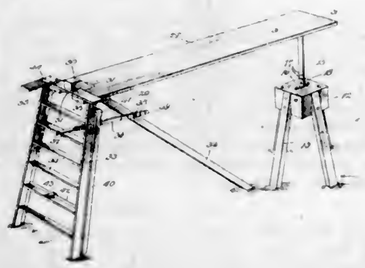
1. A pair of complemental members, adapted to be detachably connected together and constituting a terminal connector for electric conductors, one of said members having a tapered recess, and a head on the other member adapted to project into said recess, said head having an exterior tapering wall conforming generally to the taper of said socket and approaching closely to the socket wall whereby to provide a space between said head and the wall of said recess, said head being split and adapted to receive a conductor both between the separated portions of the head and about the conical outer surface of the head.

1,471,174. PRESSURE GAUGE. ARNEY LANDEY, Grand Rapids, Minn. Filed July 11, 1919. Serial No. 310,015. 2 Claims. (Cl. 73—110.)



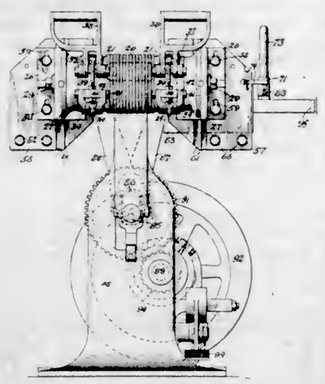
1. A pressure gauge including an open-ended casing, a diaphragm secured to said casing and adapted to close said open end, a bimetallic member having one end secured to the casing and its free end positioned above one face of the diaphragm and adjacent the center thereof, a shaft journaled in the free end of the bimetallic member, a pointer rigidly secured to said shaft and provided with a lateral extension, means for transmitting movements of the diaphragm to said pointer through said lateral extension, said casing carrying a graduated scale cooperating with said pointer, and means for transmitting pressure to the other face of the diaphragm.

1,471,175. CONVERTIBLE FURNITURE. FRANK J. LEWIS and LEO B. BROWN, Huntsville, Ala. Filed Mar. 21, 1922. Serial No. 545,418. 2 Claims. (Cl. 228—4.)



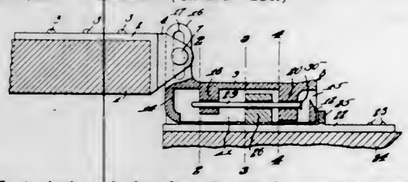
1. An ironing-board having a top and a support therefor; said support comprising a ladder-shaped member provided with rungs, a gripping member journaled on the under side of said top and extending through the same, adapted to hold one of said rungs tightly against one end of said top, said gripping member having a downwardly extending shank, a link having detachable engagement with said shank and with another of said rungs for locking said gripping member, and a vertically extensible stand for the other end of said top.

1,471,176. MACHINE FOR BENDING PIPES. BROR J. LINDGREN, Buffalo, N. Y., assignor to Niagara Machine & Tool Works, Buffalo, N. Y., a Corporation of New York. Filed Mar. 17, 1922. Serial No. 544,580. 9 Claims. (Cl. 153—69.5.)



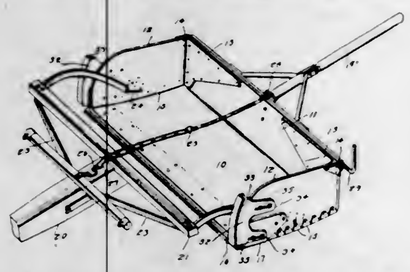
1. In a machine of the character described, a standard, two chuck arms having their inner ends pivotally connected with opposite sides of the standard by horizontal longitudinal pivots and provided on their outer ends with forward extensions, supporting plates arranged on said extensions, chucks adapted to engage opposite ends of a pipe and each having a head and slots in said head arranged transversely of the axis of the respective chuck and clamping bolts passing through said slots and into said plates.

1,471,177. DOOR FASTENER. LEONIDAS NICHOLAS LYON, Houston, Tex. Filed July 24, 1922. Serial No. 577,146. 6 Claims. (Cl. 292—283.)



5. A device of the class described, comprising members which are relatively movable, and a locking element movably supported on one of said members, said members comprising parts which coact with the locking element to hold said members against separation, after said members have been brought together and after the locking element has been moved and permitted to drop, the other of said members having means for moving the locking element to dropping position when said members are brought together.

1,471,178. SCRAPER. JOSEPH R. MAGINNESS, Sandy City, Utah. Filed May 7, 1920, Serial No. 379,562. Renewed Mar. 27, 1923. 2 Claims. (Cl. 27—140.)



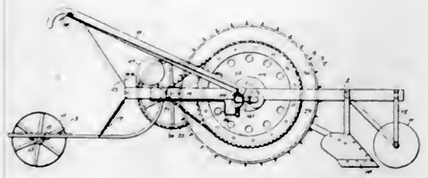
1. A scraper comprising a pan having side walls and open at its forward end, shoes connected with the side walls, and a draft appliance connected with the side walls, each shoe comprising a plate fitting against the side wall and having its forward portion extending forwardly of the side wall and having a flange extending to one side and curved longitudinally to provide a runner positioned in front of the side wall and vertically curved, the rear portion of the plate being provided with arms extending rearwardly and having longitudinally extending slots formed therein, and fasteners carried by the side walls of the pan and extending through the slots to retain the plate in position.

1,471,179. GRAIN DRILL. MAX MAROTZ, Ashton, Idaho, assignor of one-half to A. H. Wilkie, Idaho Falls, Idaho. Filed Nov. 1, 1921. Serial No. 512,106. 2 Claims. (Cl. 74—39.)



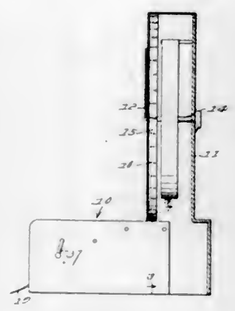
1. A horizontally disposed support, vertically movable elements mounted adjacent the ends of said support, guides carried by the end portions of said support above said movable element, a lever pivotally mounted intermediate the length of said support, guides above said lever, and flexible means connected with said lever and engaged with the guides above the lever and above said movable element and connected with the movable element and serving to impart vertical movement to said element when said lever is moved.

1,471,180. MOTOR-DRIVEN PLOW. PIERCE R. MCCRARY, Lakeland, Fla., assignor of one-half to Christopher H. R. Woodward, Portsmouth, N. H. Filed Sept. 17, 1918, Serial No. 254,453. Renewed May 1, 1923. 6 Claims. (Cl. 180—19.)



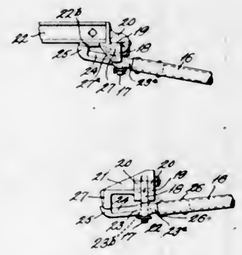
1. In a machine of the character described, the combination of a frame; an implement mounted on the frame; a single traction wheel also mounted on the frame; a motor for driving the wheel; a platform pivotally mounted at the rear of the frame; a wheel carried by the rear end of the platform; and means for raising the platform when the weight of the operator is removed therefrom so as to allow the main frame to be tilted about a horizontal axis and the implement to be elevated.

1,471,181. RECORDING ATTACHMENT FOR SCALES. ANDREW B. MCCONNELL and HARRY E. MCCROSKEY, Omaha, Nebr. Filed Sept. 19, 1919. Serial No. 324,889. 2 Claims. (Cl. 234.1.)



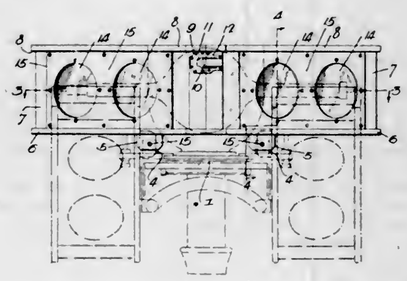
1. In a device for the purpose indicated, the combination with a rotating scale formed with peripheral printing characters corresponding to the characters on the scale, of a housing provided with an opening in its top wall disposed to face the characters on the periphery of the scale, a ribbon mounted on spaced rollers and passing before the opening, an oscillatory platen disposed below the ribbon, a stock roll mounted in the casing, a record strip mounted on the stock roll, idler rollers by means of which the record strip is passed between the ribbon and the periphery of the scale and across the opening in the housing, the latter being formed with an outlet through which the record strip projects, a spring normally impelling the platen towards the printing elements of the scale, an angular trip member pivotally mounted in the casing, a rotatably mounted wheel provided with a tappet pin to engage an arm of the trip member to repress the spring to retract the platen, an exteriorly exposed operative crank mounted in the casing, operative connections between said crank and said wheel whereby rotary movement imparted to the crank may operate said trip, and severing means for the record strip disposed adjacent the outlet of the casing and operatively connected with said crank.

1,471,182. MARKER DEVICE FOR PLANTERS. HERBERT B. MCKAHIN, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Nov. 27, 1920. Serial No. 426,826. 2 Claims. (Cl. 97—230.)



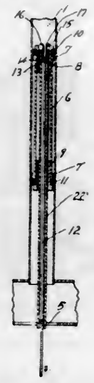
1. In a planting mechanism of the class described, the combination with the planter frame, the stationary plate secured thereto and having a downward acting cam, and the horizontally and vertically swinging marker arm having a short lever extension at its inner end of the vertically swinging coupler having a vertically arranged hinge pintle pivotally connected to the marker arm and a horizontal hinge pintle connecting the coupler to the plate, the lever extension of the marker arm being adapted to engage with the said cam.

1,471,183. SHIELD FOR ELECTRICAL APPARATUS. ALBERT G. MILLER, Philadelphia, Pa., assignor to Lankenau Hospital, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 22, 1920. Serial No. 383,388. 8 Claims. (Cl. 250—34.)



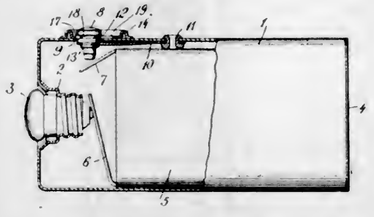
1. A casing for electrical apparatus made in two parts each of approximately triangular prismatic form; means for detachably holding said parts with their basal portions immediately adjacent to each other to define an elongated container; with pivots for independently supporting said sections to permit of their separation in a vertical plane and by a downward movement.

1,471,184. MEANS FOR REPAIRING TUBES. ARTHUR MILES, Kansas City, Mo. Filed Aug. 13, 1920. Serial No. 403,316. 3 Claims. (Cl. 137—99.)



1. Means for repairing radiator tubes comprising a tubular patch, expanders in telescoping relation with said tube, expansible packers between the tube, and expanders, means for telescoping the expanders within the tube, and means for releasing the last named means.

1,471,185. HANDLAMP SWITCH. LOUIS A. MILLER, New Haven, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation of Connecticut. Filed July 15, 1921. Serial No. 484,844. 3 Claims. (Cl. 200—60.)

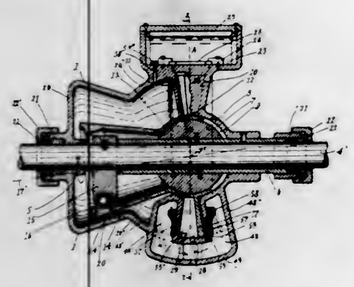


1. A contact device for battery hand lamps, comprising a spring controlled push button manually operable from open-circuit to closed-circuit position, and a slide movable longitudinally of the lamp surrounding said push button and adapted to engage the upper surface of said push button when in closed circuit position, to retain the same in such position, said push button having a single groove engageable by said slide when said push button is in open circuit position to retain the same in such position, said push button and slide being arranged so that they may be actuated as desired by the thumb of one hand alone.

1,471,186. LIQUID BRAKE. PETER MEYER, St. Paul, Minn. Filed Oct. 30, 1922. Serial No. 597,809. 5 Claims. (Cl. 188—90.)

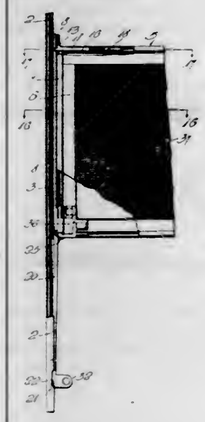
1. The combination with a frame and a drivable shaft supported thereon; of a hollow casing surrounding said shaft and supported on said frame to be held stationary thereby, said casing including a chamber adapted to contain liquid on one side of said shaft, a similar chamber on the opposite side of said shaft, each of said chambers having an inlet port at its top, an oscillatory member extending into the interior of both of said chambers, the inner walls of each of said chambers and said member being constructed to cooperate to force a part of the oil

to occupy the lower portion of said chambers respectively when said member is oscillated, said member having operative connection with said shaft to be oscillated thereby responsive to a driving movement thereof in either direction, a discharge port for each of said chambers for dis-



charging the oil into the lower portion of said chambers, a duct in open communication with said discharge ports and inlet ports to conduct the oil from the former to the latter, and means for varying at will the cross sectional area of said duct.

1,471,187. WINDOW SCREEN. CARL GUSTAV MORGNER, Chicago, Ill. Filed Oct. 12, 1922. Serial No. 594,067. 13 Claims. (Cl. 156—14.)



3. The combination with a vertically movable closure and guides for the vertical edges thereof; of means for holding the closure in lowered position, and an arm for releasing said holding means, said arm being pivoted to the lower end of the closure and being downwardly movable to a vertical position when the latter is raised, said arm being then engageable with one of said guides to hold the closure raised.

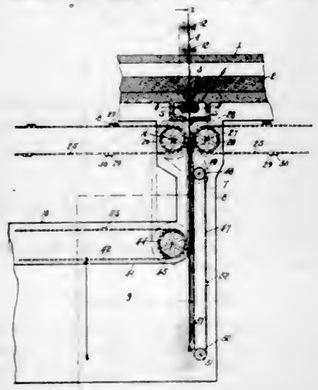
1,471,188. CLAMP. GEORGE GORDON MUSTED, Glasgow, Scotland. Filed Dec. 24, 1921. Serial No. 524,703. 6 Claims. (Cl. 24—19.)

1. A clamp for flexible tubes and the like comprising two semicircular jaws hinged together at one end and having projecting lugs at the other ends, a plate pivoted to a lug of one of said jaws, a tightening screw carried by said plate and adapted in one position of the latter to engage a lug of the other jaw, said plate being movable to a position removing the screw from engagement with



said lug, and a spring compensation plate formed integral with one jaw and extending inwardly of the other jaw.

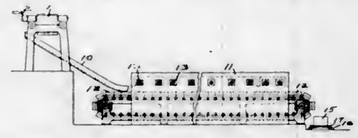
1,471,189. METHOD AND APPARATUS FOR FORMING SHEET GLASS. HUBERT A. MYERS, Toledo, Ohio, assignor to The Hubert A. Myers Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 15, 1920. Serial No. 410,412. 10 Claims. (Cl. 49—3.)



8. In an apparatus for forming sheet glass, a tank for containing molten glass from which glass may flow continuously in sheet form, means for successively feeding end strips in pairs to the opposite edges of the sheet being formed lengthwise of the movement thereof in adherence therewith, means for successively applying upper and lower sets of cross bars to the upper and lower ends of each pair of edge strips and to the sheet to cooperate with the edge strips to embrace a predetermined sheet area, means for guiding the vertical movements of the frame sheet section and adapted to release the upper and lower ends of each frame for horizontal movement when it has reached a predetermined point in its vertical movement, and means for engaging and moving each frame section laterally from the guide means when in side delivery position and to effect a severing of the sheet between the upper end of the laterally moving section and the lower end of a succeeding section.

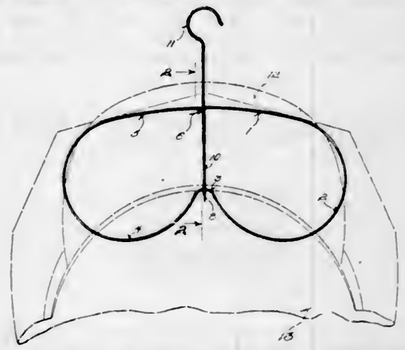
1,471,190. PROCESS OF PRODUCING SOFT FERROUS METAL CASTINGS. HUBERT A. MYERS, Toledo, Ohio, assignor to The Hubert A. Myers Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 23, 1921. Serial No. 502,667. 5 Claims. (Cl. 148—3.)

1. The process of producing soft ferrous castings, which consists in shaping the castings in a hot mold, delivering the castings from the mold before the temperature of the castings decreases sufficiently to prevent dissolution of the carbon in the metal, and maintaining the lehr and



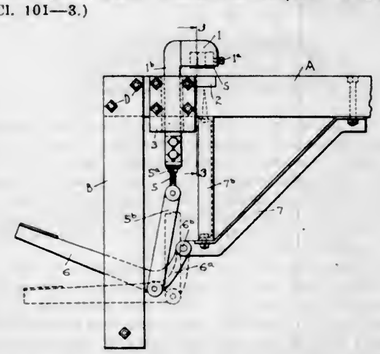
the castings at a temperature higher than that at which carbon will combine with the iron until substantially all of the carbon has become liberated from the solution and allowing the castings to gradually cool.

1,471,191. DISPLAY CAP HANGER. HILDA A. NIEBLER, Racine, Wis. Filed Dec. 12, 1922. Serial No. 606,414. 2 Claims. (Cl. 211—13.)



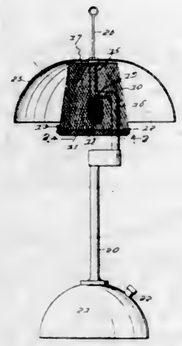
1. A display cap hanger comprising a closed looped wire frame having one end of the wire secured at an intermediate point on the upper side of the frame and the other end of the wire extending from such point downwardly and hooked under the lower side of said frame and thence extending at right angles to the plane of the frame and thereafter extending upwardly and terminating in an attaching eye.

1,471,192. STAMPING ATTACHMENT FOR HIDE SPLITTERS. JEWETT F. NEILEY, Endicott, N. Y. Filed Apr. 4, 1921. Serial No. 458,450. 6 Claims. (Cl. 101—3.)



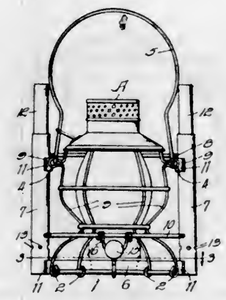
1. A hide splitting horse having parallel top bars; a stamping member mounted on each bar adjacent one end thereof; spring means for normally holding the die carrying members in raised position, and means for simultaneously depressing the die carrying members.

1,471,193. GUARD FOR GASOLINE LAMPS. VERNA A. NEVINS and VERGIL O. NEVINS, Hooker, Okla. Filed Sept. 8, 1921. Serial No. 499,201. 1 Claim. (Cl. 240—102.)



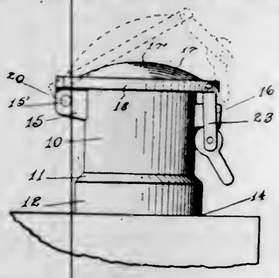
The combination with a gasoline lamp having a fuel tube provided with a downwardly directed burner orifice and an adjacent mantle, and having an upwardly extended stem terminating in a hanger and provided with means for supporting a shade, of a mantle guard of wire screen provided at its upper end with an opening for the reception of the said stem and depending in enclosing relation with said mantle and the adjacent portion of the fuel tube, said guard being provided at its lower end with a hinged lid or cover for giving access to the interior of the guard and means for normally holding the lid or cover in its closed position.

1,471,194. DETACHABLE FUSEE AND TORPEDO HOLDER FOR RAILROAD LANTERNS. ANNA C. NORDMAN, Kirkwood, Mo. Filed May 7, 1923. Serial No. 637,102. 6 Claims. (Cl. 246—488.)



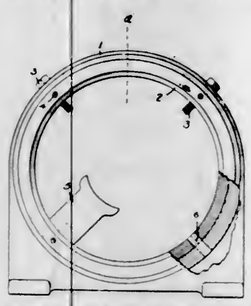
1. In combination with a lantern having a wire frame including a base ring and terminal ends of lantern frame wires looped thereabout, of a fusee holder detachably applied to the lantern frame and consisting of a wide flat base ring for frictional engagement with the looped end of the lantern frame wires, an upper ring adapted to rest upon the bail ears of the lantern frame, a pair of opposed open ended fusee holder tubes fixed to opposite sides of said base and upper holder rings, means directed inwardly from the walls of the fusee tubes to act as interior stops to prevent the fusees from falling through the tubes, opposed straps connecting opposite pairs of fusee holders near the upper ring of the holder, an off-set in each connecting strap to receive the bail ears of the lantern to prevent turning displacement of the fusee holder upon the lantern frame.

1,471,195. RADIATOR CAP FOR MOTOR VEHICLES. JOSEPH B. NORTHERN, Dallas, Tex. Filed Nov. 1, 1921. Serial No. 511,977. 1 Claim. (Cl. 220—55.)



In a radiator filling cap structure, an elongated upright sleeve having its lower end arranged for securing to the filling collar of a radiator, a pair of hinge ears at the upper edge of the sleeve, a cap having an annular seat in its underside, a gasket ring fitting in said seat and engaging on the upper edge of the sleeve, the cap having an annular flange overhanging the sleeve and directed outwardly therefrom, a lug depending from said flange and hinged between the ears, the flange having a slot in its front edge diametrically opposite the lug, a link having its upper end hinged in the slot and provided with a slot extending upwardly from its lower end, a cam pivoted in the lower end of the link slot, a lever extending from the cam, and a radial lug extending from the sleeve and engaged in the slot immediately over the cam, which is frictionally engaged with the underside of said lug when swung by the lever, the lever at all times being free from contact with the sleeve so as to provide finger space therebetween.

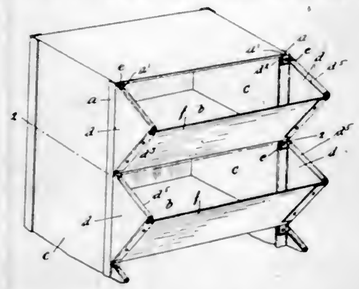
1,471,196. FIELD FRAME. ALDEN B. OWEN and THOMAS HALL, Ridgway, Pa. Filed Jan. 24, 1917. Serial No. 144,174. 6 Claims. (Cl. 171—252.)



1. A field frame comprising, an inner frame of wrought metal formed with a gap between contiguous ends, and an outer frame of cast iron completely surrounding and gripping tightly the inner frame and drawing and holding the two ends of the inner frame at the joint into contact with each other, combined substantially as set forth.

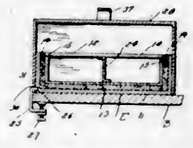
1,471,197. SHEET-METAL BIN. JOHN H. OXLEY, Haverhill, Mass. Filed Sept. 14, 1922. Serial No. 588,146. 3 Claims. (Cl. 211—6.)

1. A sheet metal bin comprising a pair of uprights, a series of horizontal shelves supported by said uprights and having sides extending rearwardly therefrom, a pair of triangular shaped extension sections arranged in front of the uprights between each pair of adjacent shelves and in continuation of the sides, with their base edges extending from one shelf to the next, each section having a transverse flange interlocked with the adjacent upright to retain the same in position, and having a similar flange on the lower side edge thereof, projecting towards



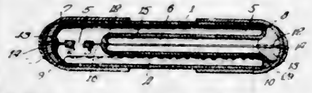
the opposite section, and a front wall extended upwardly and outwardly from the front edge of each shelf between each pair of sections and supported by the flanges at the lower edges of the sections between which it is located.

1,471,198. AUTOMOBILE COOKSTOVE. CHARLES A. PARKER, Jr., Columbia, Tenn. Filed Feb. 14, 1922. Serial No. 536,417. 2 Claims. (Cl. 126—20.)



2. A stove of the class described having an outer shell for disposition on the running board of an automobile, an inner shell within said outer shell and having a surface adapted to form a hot plate, said inner shell being hollow and adapted to be connected to the exhaust pipe of the automobile engine, a hood adapted to fit over the hot plate to form an oven, insulating material spacing the inner shell from the outer shell, and overlapping means carried by the shells within the insulating material and serving to prevent detachment of the shells.

1,471,199. SWITCH. LOUIS A. M. PHELAN, Chicago, Ill. Filed Aug. 20, 1920. Serial No. 404,913. 13 Claims. (Cl. 200—152.)



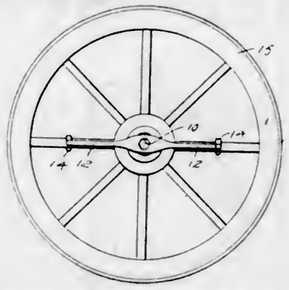
5. In a device of the character described, an elongated hermetically sealed receptacle containing a body of mercury, and an electrode member sealed in one of the walls of said receptacle near one end thereof, said electrode member comprising an enlarged head at which said body of mercury serves to break a circuit at predetermined times, said head being spaced from the walls of said receptacle, and a relatively thin leading-in wire.

6. A fluid-type contact switch comprising a body of conducting liquid, and an electrode terminal for making and breaking an electrical circuit with said body of conducting liquid at predetermined times, said terminal comprising a wire having an enlargement at the end thereof formed by coiling a portion of said wire.

10. A mercury electric switch comprising an elongated hermetically sealed glass container, cooperating electrodes sealed in said container near one end thereof which are severally provided with a terminal head of substantially large contact-making area, a body of mercury movable to

and from contact with said terminal heads, and an inert gas filling said container, one of said electrodes being supported adjacent to its terminal head by a glass shank extending longitudinally of and integrally formed with said glass container.

1,471,200. WRENCH. LEONARD D. PHILLIPS, Eagle Point, Wis. Filed Oct. 4, 1920. Serial No. 414,503. 1 Claim. (Cl. 81—74.)

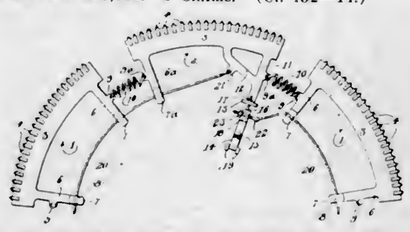


A one-piece wrench having allned arms, a nut-receiving socket member connecting and being inwardly offset relatively to the arms, fingers extending inwardly substantially at a right angle from the arms and terminating beyond the socket member in hooks adapted for clasping engagement with wheel spokes, said hooks having their longitudinal median line at a right angle to the fingers so that the hooks will engage the spokes at the front and rear thereof to resist displacing movement of the socket member from an engaged nut, and said hooks being open at the same side of the wrench.

1,471,201. METHOD OF PRODUCING AND MATERIAL FOR THE TREATMENT OF OILS. PAUL W. PRUTZMAN and CARL J. VON BIBRA, Los Angeles, Calif., assignors to General Petroleum Corporation, Los Angeles, Calif., a Corporation of California. Filed Sept. 2, 1922. Serial No. 586,041. 5 Claims. (Cl. 252.)

1. The method of producing a decolorizing and purifying agent for oils, which consists in first forming a mudded mass from non-spent mineral earth, then subjecting the said mudded mass to the action of an acid for the separation therefrom of acid soluble bodies, removing the acid and reaction products from the insoluble portion of the said mass by the application of water, thickening the mass by the withdrawal of excess wash water therefrom and maintaining the said treated body until used in a mudded condition to prevent contact of air with the solid particles thereof.

1,471,202. NONSKID TREAD FOR VEHICLE WHEELS. ANGELO PUGLIESE, New York, N. Y. Filed Jan. 31, 1923. Serial No. 616,144. 4 Claims. (Cl. 152—14.)



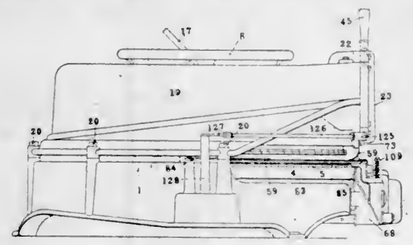
1. In a non-skid tread for vehicle wheels, a plurality of metallic tread sections having anti-skid tread faces, inwardly directed arms carried by each section, coil springs connecting the end arms of adjacent sections, cables connecting the several sections and a clamp for anchoring the sections to a wheel felly.

1,471,203. RAILWAY TIE. VICTOR E. RANDALL, Battle Creek, Mich. Filed Oct. 26, 1920. Serial No. 419,608. 6 Claims. (Cl. 238—115.)



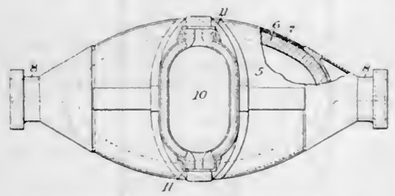
1. A railway tie comprising two rail-bearing blocks having holes in their sides, and metallic connecting rods having offset ends engaging within said holes and linking said blocks together.

1,471,204. STENCIL-CUTTING MACHINE. GEORGE REINSNIDER, Belleville, Ill. Filed Oct. 27, 1921. Serial No. 510,712. 14 Claims. (Cl. 197—6.7.)



1. In a device of the class described, the combination with a rotary punch and die carrying member, of a pivotally mounted member for operating the punches, a handle for actuating said member, a sliding bar, means for moving said bar longitudinally from said member, and locking means for the punch and die carrying member actuated from said bar.

1,471,205. HOT-METAL CAR. EDGAR J. REILLY, Youngstown, Ohio, assignor to The William B. Pollock Company, Youngstown, Ohio, a Corporation of Ohio. Continuation of application Serial No. 381,057, filed May 13, 1920. This application filed Apr. 20, 1922. Serial No. 555,775. 6 Claims. (Cl. 105—264.)

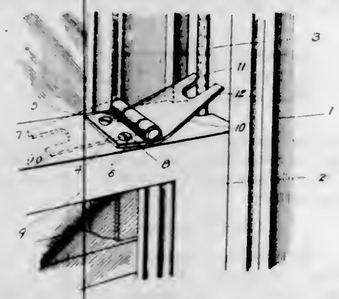


1. A hot metal car, comprising a container having a cavity circular in every transverse section therethrough, and presenting shapes of substantially similar outline in every section including its longitudinal axis, said last mentioned sections all being of decreasing width from the center toward each end thereof, substantially as described.

1,471,206. WINDOW LOCK. BISMARCK REYNOLDS, Kansas City, Mo. Filed Nov. 13, 1922. Serial No. 600,767. 1 Claim. (Cl. 292—194.)

As an article of manufacture, a sash lock comprising two members hinged together, one being a relatively short base member adapted to be positioned on top of

the shaft with its free end directed away from the sash cord, the second member being hinged to the first



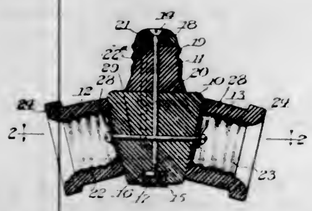
and consisting of a stiff plate having at its free end spaced prongs, the prongs and body portion of the plate being in the same plane.

1,471,207. SANITARY INDIVIDUAL SALIVA EJECTOR. NAPOLEON B. RIDDLE, St. Francisville, La. Filed May 8, 1922. Serial No. 559,405. 2 Claims. (Cl. 32—33.)



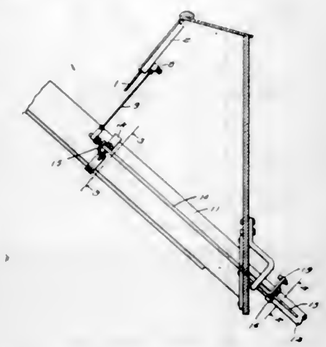
1. A saliva ejector consisting of a fragile suction tube for application to the mouth, a reinforcing element in said tube, and said reinforcing element being crimped to prevent collapse of the tube by suction therethrough.

1,471,208. MULTIPLE LAMP SOCKET. BERNARD I. ROCKOFF and ELIAS ROCKOFF, Chicago, Ill. Filed June 26, 1919. Serial No. 306,775. 3 Claims. (Cl. 173—337.)



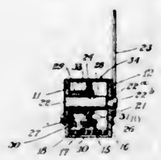
2. In a device of the class described the combination of a body portion having a plug and a socket, the plug and socket having contact making elements, bolt members for holding the contact making elements of the plug and socket with relation to the body portion, said plug contact holding bolt members being arranged at an angle to said socket contact holding, bolt members and in electrical contact therewith.

1,471,209. FRONT-WHEEL ANGLE INDICATOR. WILLIAM T. ROONEY and JOSEPH P. HUME, Los Angeles, Calif. Filed Sept. 21, 1922. Serial No. 589,616. 3 Claims. (Cl. 116—31.)



3. A front wheel angle indicator including a pointer, a crank arm attached to said pointer, a rockably mounted member having angularly related crank arms, a link rod pivotally connected to said first named crank arm and to one of the crank arms of said member, a clamp connected to the steering mechanism, and a link rod pivotally connected to the other arm of said member and to said last named clamp.

1,471,210. ELECTRICAL SWITCH. ABRAHAM W. ROSEN, New York, N. Y. Filed Jan. 27, 1922. Serial No. 532,147. 1 Claim. (Cl. 200—161.)

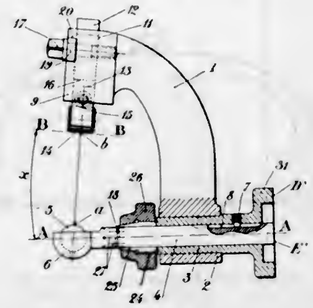


An electric switch, comprising a supporting base and oppositely disposed standards, a shaft rotatably mounted in said standards, a sleeve on said shaft and parallel washers at the opposite ends of the sleeve, a disc carried by said sleeve and confined to its position by said washers, contact members on the supporting base in position to be acted on by the disc, and a spring coiled about said shaft, one end of said spring being anchored to one of the standards and the other end of the spring passing through said disc and washers.

1,471,211. GAUGE. LOUIS ROUANET, Ivry-Port, France, assignor to Compagne d'Applications Mecaniques, Paris, France. Filed Feb. 16, 1920. Serial No. 358,876. 3 Claims. (Cl. 33—143.)

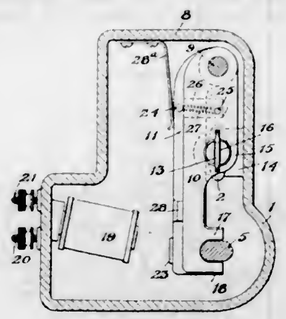
1. A gauge comprising in combination a body, a block slidable on said body, means for clamping said block

on the body, a cylindrical contact member carried by said block and adapted to engage the work by one



of its generatrix lines and a complementary contact member mounted on said body and adapted to be shifted in a direction at an angle with said generatrix.

1,471,212. AUTOMOBILE TRANSMISSION LOCK. HERBERT SCHIEF, New York, N. Y. Filed Oct. 24, 1922. Serial No. 596,539. 9 Claims. (Cl. 70—128.)

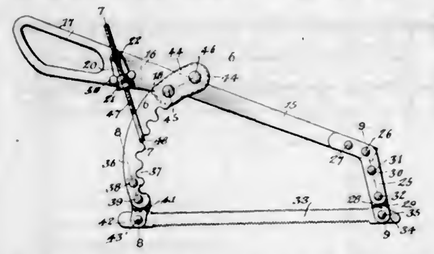


1. A device of the class described comprising a gear-shifting means, a pair of locking members adapted to engage said gear-shifting means and prevent movement thereof, a lock for said locking members, a key for shifting one of said locking members out of engagement with the gear-shifting means, and means for retaining the other locking member in engagement with the gear-shifting means until the key has been removed from the lock.

1,471,213. MANUFACTURE OF FORMALDEHYDE CONDENSATION PRODUCTS OF ALIPHATIC AMINES AND PRODUCTS OBTAINED THEREBY. MORRIS G. SHEPARD, New York, N. Y., and HAROLD S. ADAMS, Naugatuck, Conn., assignors to The Naugatuck Chemical Company, a Corporation of Connecticut. Filed Nov. 27, 1922. Serial No. 603,659. 5 Claims. (Cl. 260—141.)

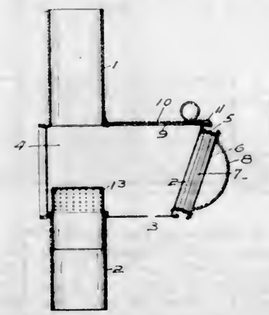
5. A process for forming a formaldehyde condensation product which comprises mixing a solution of hexamethylenetetramine with ethyl chloride, allowing the addition reaction to occur, heating the mass to effect hydrolysis, permitting the condensation of ethyl amine and formaldehyde to triethyltrimethylenetriamine hydrochloride to occur, adding caustic soda to the mass so obtained and separating the triethyltrimethylenetriamine.

1,471,214. SAW FRAME OR HOLDER. GEORGE S. SIEBEN, Oak Bluffs, Mass. Filed Sept. 30, 1922. Serial No. 591,670. 7 Claims. (Cl. 145—34.)



1. A device for the purpose set forth comprising a handle member including a tapered shank and a triangular handle portion, a rear coupler adjustably connected therewith and adapted to be attached to one end of a saw blade, a forward coupler detachably secured therewith and adapted to be connected to the other end of a saw blade, and lengthwise adjustable means carried by the handle member and overlapping and engaging in the rear coupler for clamping the latter to the handle portion.

1,471,215. RAIN-WATER-PIPE TRAP. MEYER SIGMAN, Cleveland, Ohio. Filed Oct. 3, 1921. Serial No. 504,938. 1 Claim. (Cl. 210—90.)

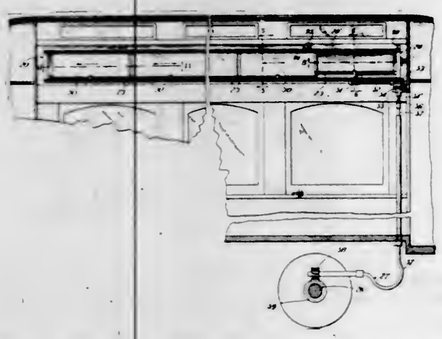


In a rain-water pipe trap, a receptacle connected to the water pipe and having inlet and outlet openings, one located in the top and the other located in the bottom, the receptacle having a third opening located in the end, a threaded flange surrounding the end opening, a cover having a threaded flange for fitting the flange about the end opening in the receptacle whereby the end opening may be tightly sealed, an inlet pipe connetd to th top of the receptacle and an outlet pipe connected to the bottom of the receptacle through the top and bottom openings respectively, a cap strainer covering the outlet of the trap and extending into the trap, the lower edge of the cap strainer being located near the bottom of the receptacle and the lower edge of the end opening being also located near the bottom of the receptacle, a fourth opening located in the top, and a hinged cover for closing the last named opening whereby debris and foreign matter may be readily removed from the trap.

1,471,216. ADVERTISING-SIGN DISPLAY EQUIPMENT FOR PASSENGER CARS. JAMES C. SORENSEN, Aurora, Ill. Filed Sept. 29, 1921. Serial No. 504,167. 16 Claims. (Cl. 40—97.)

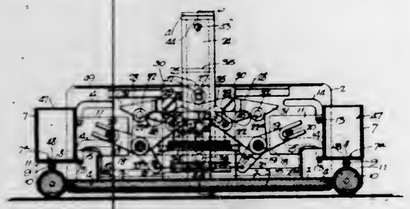
1. In a moving-sign equipment, a casing having display and return trackways and trackless transfer stations at its ends, an endless conveyor following the track-

ways and crossing the transfer stations, signs movable by the conveyor and guided by the trackways, a transfer carrier at each transfer station, and means for posi-



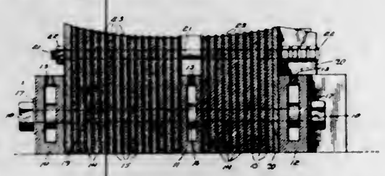
tively and automatically moving said carrier from register with one trackway to register with the other trackway, alternately.

1,471,217. FLOOR POLISHER. ALOIS F. STEIERT and OSCAR W. LINKE, Philadelphia, Pa. Filed Aug. 4, 1921. Serial No. 489,726. 21 Claims. (Cl. 91—27.)



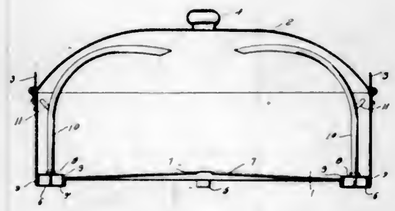
1. In a machine of the type specified, the combination of a frame, a polishing element on the frame, and distributing apparatus movable in the frame and adapted in one position to elevate the latter whereby the polishing element is removed from the supporting surface, while in another position it permits the frame to lie with the polishing element in contact with the said surface.

1,471,218. BEDPLATE FOR BEATER ENGINES. DAVID STUART, Berlin, N. H. Filed Aug. 4, 1921. Serial No. 489,782. 4 Claims. (Cl. 92—22.)



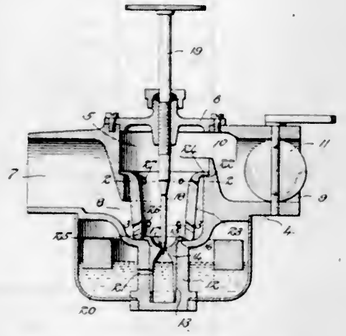
2. A bed plate for beating engine rolls having a grooved surface cooperative with the adjacent periphery of a beating roll, whereby a suction is created therebetween for facilitating the feed of the pulp stock through the engine, said bed plate having its opposite end portions angularly disposed to either side of the transverse center thereof, and means for discharging compressed air to said bed plate and between the opposed surfaces thereof and said beating roll.

1,471,219. ROASTING PAN. LOUIS D. SUTTON, Portland, Oreg. Filed Sept. 27, 1920, Serial No. 412,974. Renewed Aug. 2, 1923. 2 Claims. (Cl. 53—6.)



2. A roasting pan having a gravy well depressed from its bottom wall, said bottom wall inclining toward said well and having drain grooves communicating with and radiating from the well, basting means comprising a cup snugly disposed in said well, said cup being inwardly deflected to provide a groove in the side wall, said side wall at the lower extremity of said groove being cut away to establish communication with the interior of the cup, and a gravy-conveying tube extending from said cup.

1,471,220. CARBURETOR. ROY M. TANGYE, Denver, Colo. Filed Oct. 6, 1919, Serial No. 328,756. Renewed Mar. 19, 1923. 4 Claims. (Cl. 261—62.)

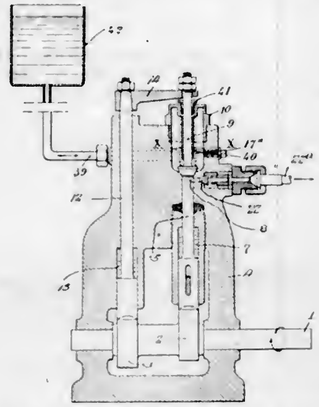


1. The combination with a carburetor of a choke element, comprising a tubular body of considerable thickness having a tapered bore and an outstanding flange at the end having the larger diameter of the bore, the end portions of the walls of said body having sets of tangentially disposed air inlets opening into the bore and inclined inwardly toward the end having the flange, the set at the flanged end having less aggregate capacity than the set at the opposite end, and means to deliver fuel to the bore of the choke element.

1,471,221. PUMP FOR FEEDING LIQUID-FUEL ENGINES AND LIKE PURPOSES. EUGÈNE HENRI TARTRAIS, Maisons-Laffite, France. Filed July 14, 1921. Serial No. 484,803. 4 Claims. (Cl. 123—139.)

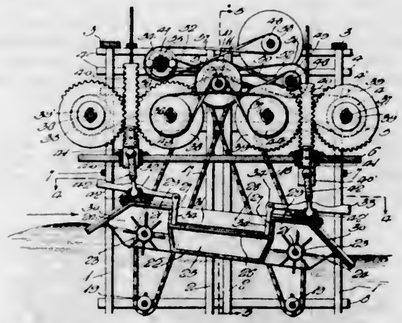
1. A pump for feeding engines with liquid fuel comprising in combination: a pump barrel, a piston moving in said pump barrel, means for operating said piston, an inlet valve located in line with the piston axis and forming the bottom of the pump barrel, means for mechanically operating said valve and causing the same

to open from inside to outside, a normally closed fuel chamber around said inlet valve and outside of the pump barrel, said fuel chamber containing fuel in its lower



part and air in its upper part, means for feeding said chamber with fuel under pressure and an automatic delivery valve.

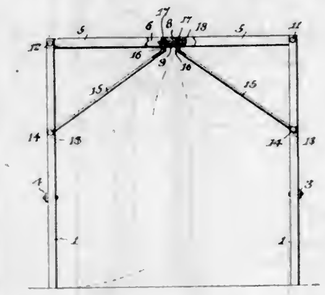
1,471,222. WAVE MOTOR. WILLIAM M. TAYLOR, Mecklenburg County, Va. Filed July 13, 1922. Serial No. 574,847. 9 Claims. (Cl. 253—4.)



1. A wave motor comprising a frame, a rotatable shaft, a float mounted in said frame, for vertical sliding and pivotal movement, means actuated by said float for imparting rotary movement to said shaft when the float is moved vertically by a wave passing under the float, and other means for imparting rotary movement to said shaft including a paddle wheel having a shaft rotatably carried by said float, a sprocket wheel carried by the shaft of said paddle wheel, and a sprocket chain passing about said sprocket wheel and about a sprocket wheel upon the first mentioned shaft and moved to impart rotary movement to the first shaft when the paddle wheel is rotated by a wave passing beneath said float.

1,471,223. COLLAPSIBLE TRESTLE. GEORGE TOMLINSON, Gallatin, Mo. Filed Nov. 16, 1922. Serial No. 601,333. 1 Claim. (Cl. 304—5.)

A collapsible trestle comprising a rectangular skeleton head member provided medially thereof with a transversely extending coupling bar formed with a transversely extending opening, two pair of standards, means for hinging one pair to one end of said member, means for hinging the other pair to the other end of said member, a pair of inverted T-shaped brace elements oppositely disposed with respect to each other and each including a base and a shank, said base arranged between and having its ends journaled in a pair of said standards, said shank extending inwardly and upwardly from said base medially thereof and provided with an angular extension



capable of being arranged medially of one side of the coupling bar when the trestle is extended and formed with the openings registering with one end of the opening in the coupling bar, and means common to said extensions and said coupling bar and extending through said registering openings for detachably connecting the extensions to the coupling bar.

1,471,224. PADDING FOR THE COVERING OF FLATWORK IRONERS. WILLIAM I. WEAVER, Camden, N. J. Filed July 21, 1921. Serial No. 486,621. 3 Claims. (Cl. 139—408.)

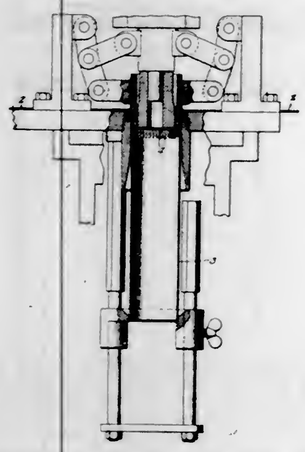


1. As a new article of manufacture, a soft multi-ply padding fabric having interwoven superposed plies comprising relatively small spaced hard twisted warps and relatively large spaced soft silver-like interwoven wefts forming a yielding spongy mass, the warps being arranged to firmly bind the outer plies and to less firmly bind the inner plies, several of the warps extending from one ply to an adjacent one thereby serving as binder warps for said plies, and most of the wefts of the upper plies being staggered relatively to the wefts of the lower plies.

1,471,225. METHOD OF MAKING PAPER OR OTHER ARTICLES. ANDREW L. WEIS, Monroe, Mich., assignor to The Weis Fibre Container Corporation, Monroe, Mich., a Corporation of South Dakota. Filed Dec. 12, 1921. Serial No. 521,664. 3 Claims. (Cl. 93—60.)

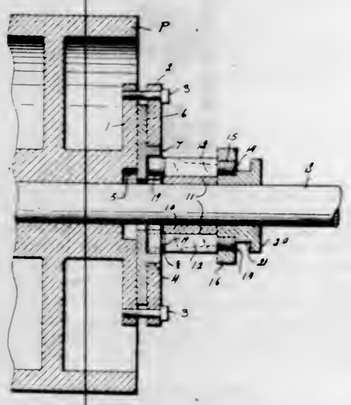
1. In a process or method for the manufacture of articles from sheet material, the forming of said articles from suitable sheet material by a suitable punching operation, and packing such articles tightly together in a container, using said punching operation to force the articles into said container, and to gradually compress and form them into a solid stack therein, which stack increases by successive additions of articles thereto through one end of the container, so that the stack is gradually pushed into the container until the inner end of the stack reaches the other end of the container, with enough friction between the articles and the inner surface of the

container to keep the articles compressed tightly together while the inner end of the stack is gradually moving toward the other end of the container, and compressing



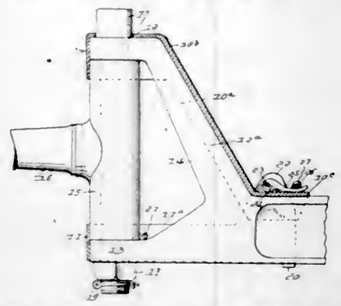
the stack by the addition of articles at the outer end of the stack after the inner end thereof has reached its final position.

1,471,226. CLUTCH. JOHN WHISLER, Gibson, Iowa. Filed Dec. 7, 1921. Serial No. 520,653. 1 Claim. (Cl. 192—55.)



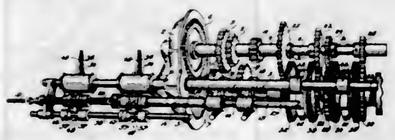
In combination with a driving element, a driven member loosely mounted thereon and provided with a plate, a second plate overlying the first named plate, means for connecting said plates one to the other and for moving one of said plates relative to the other, said second plate being provided with a central opening concentric to the driving element, a friction plate interposed between the first named plates, said plate freely surrounding the driving element and provided with an outstanding flange extending within the central opening of the second plate and having close contact with the wall of said opening, an outstanding lug carried by the friction plate inwardly of the flange thereof, a head fixture on the driving element, a member slidably mounted upon the driving element and a finger extending outwardly from the sliding member and having movement through the head whereby the sliding member is keyed to the driving element, the finger of the sliding member upon movement of the sliding member toward the head adapted to have working engagement with the lug of the friction plate.

1,471,227. SPINDLE-BOLT PROTECTOR. JAMES G. WILCOX, Bradley, Wis. Filed Dec. 6, 1921. Serial No. 520,225. 2 Claims. (Cl. 280—96.1.)



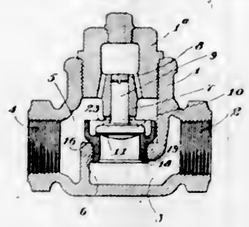
1. A retainer for the axle carrying sleeve of a steering knuckle having cuffs embracing the eyes of the knuckle bracket in overlapping relation with the adjacent extremities of the sleeve, said cuffs having side extensions lying in contact with the side surfaces of the bracket arms and means for securing the inner ends of said extensions in a fixed relation with the axle, the extensions of the lower cuff being provided with ears for engagement with the under surface of the axle and the extensions of the upper cuff being provided with a back extension bearing upon the upper side of the axle, and said fastening means consisting of ears extending upward from the extensions of the lower cuff, and a cam mounted between said ears for engagement with said back extension of the upper cuff.

1,471,228. CHANGE-SPEED GEAR. EDGAR RICHARD WILLIAMS, Addington, Christchurch, New Zealand. Filed Feb. 3, 1922. Serial No. 533,790. 4 Claims. (Cl. 74—57.)



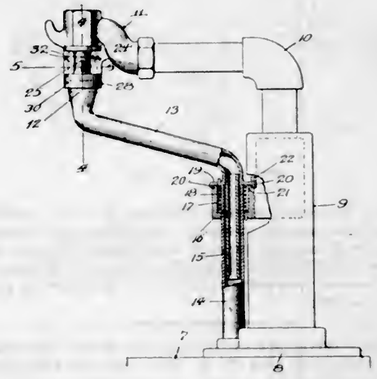
1. In selective change-gear the combination with a main driving-shaft, a countershaft rotated thereby, a main driven-shaft, a series of selectively engageable main gears whereby said driven shaft may be driven at a variety of speeds by and relative to said driving-shaft and counter-shaft, and operable means for governing said engagement and selection, of means whereby said shafts are brought to the correct relative rotations when any of said main gears are about to engage, comprising a corresponding series of subsidiary gears each potentially capable of connecting said shafts to rotate at the same relative speeds and directions as its corresponding main gear, friction clutches whereby each of said subsidiary gears may be rendered operative to so connect said shafts, a tubular member carrying means for controlling certain of said friction-clutches, a rod passing through said tubular member and carrying means for controlling the remaining friction-clutches, and means whereby said controlling means are selectively operated by said governing means in such manner that the corresponding subsidiary gear will be rendered first operative and then inoperative during the operation of said governing means in bringing any of the main gears into engagement.

1,471,229. CHECK VALVE. BELVIN T. WILLISTON, Somerville, Mass., assignor to Manning, Maxwell & Moore, Inc., New York, N. Y., a Corporation of New Jersey. Filed Feb. 4, 1921. Serial No. 442,394. 5 Claims. (Cl. 251—119.)



1. A check valve comprising inlet and discharge chambers having a valve opening therebetween, said discharge chamber having a lateral discharge opening, a valve member freely movable toward and from said valve opening, a stem projecting from the valve member, guide means for the stem and means for guarding said valve member against lateral thrust of the fluid as the latter passes into the discharge chamber.

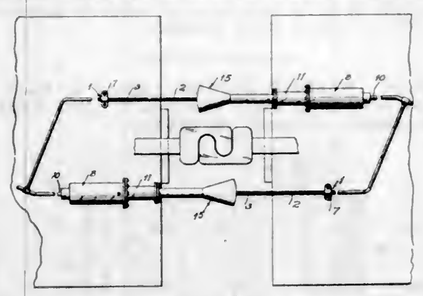
1,471,230. LIQUID-DISPENSING DEVICE. ANDREW D. WYCKOFF, Oak Park, Ill., assignor to Oil Products Appliance Co., Maywood, Ill., a Corporation of Illinois. Filed Aug. 2, 1922. Serial No. 579,088. 8 Claims. (Cl. 221—72.)



1. In a liquid dispensing device, a tank having an oil dispensing arm and nozzle, said nozzle having a discharge spout and a rain shedding cover thereon adapted to overhang the mouth of a drip tube, an oil return drip tube rotatively mounted on said tank and having a mouth adapted normally to stand underneath said spout and cover, and a discharge end emptying into the tank, and means for moving the mouth of said drip tube underneath said spout and cover, when released from any other position.

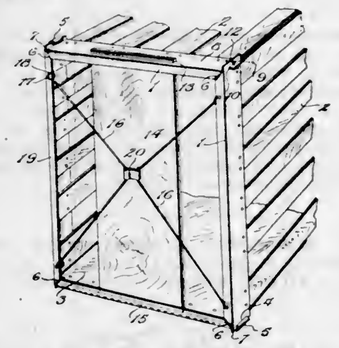
1,471,231. AUTOMATIC AIR COUPLER. CURTIS E. BARNHART, Auburn, Nebr. Filed Aug. 18, 1921. Serial No. 493,304. 3 Claims. (Cl. 285—58.)

1. A coupler of the class described comprising a flexible conduit having a gasket at its outer end, a second conduit for cooperation with the first named conduit, including a cylinder connected to a fluid pipe, a piston slidable in said cylinder, the head and rod thereof being formed with a bore to permit passage of the fluid therethrough, means closing one end of the cylinder for limiting the sliding movement of the piston in one direction, a conical guide, coiled springs connected with said guide adjacent



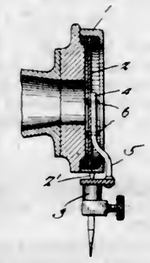
said piston for resisting the sliding movement of the latter, and a gasket carried by the piston rod for coaction with said first named gasket.

1,471,232. CRATE. FRED C. BARTLETT, Cromwell, Iowa. Filed Oct. 28, 1922. Serial No. 597,536. 4 Claims. (Cl. 220—24.)



1. A knock-down crate consisting of end frames each composed of a plurality of frame members hingedly connected at their meeting ends, means for preventing separation of said frame members when the crate is set up for use, side, top and bottom members secured to and extending between the corresponding members of the end frames, and closures for the end frames.

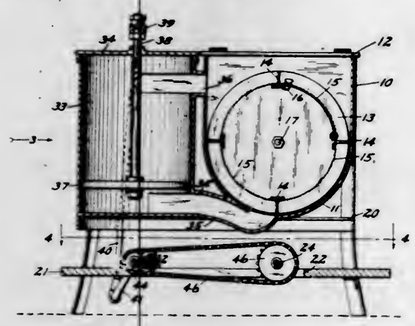
1,471,233. SOUND BOX FOR PHONOGRAPHS. DANA BERG, Fort Collins, Colo. Filed Aug. 10, 1922. Serial No. 580,934. 1 Claim. (Cl. 274—35.)



A phonograph sound box including a diaphragm, a stylus holder, a bar fixed to and extending from the holder, said bar having a straight portion bearing

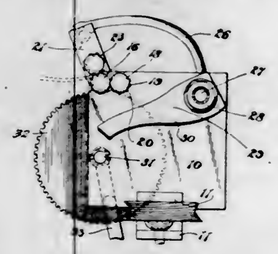
throughout its length against and extending radially along the diaphragm from a point adjacent the center thereof and thence across the center to a point adjacent the periphery of the diaphragm, and means for securing said straight portion to the diaphragm.

1,471,234. WASHING MACHINE. SIDNEY R. BOARDMAN, Los Angeles, Calif. Filed June 20, 1921. Serial No. 478,994. 4 Claims. (Cl. 68—18.)



1. A washing machine having a pair of chambers, the lower portions of which are communicatingly connected, a reticulated cylinder arranged for rotation in one of said chambers, a piston arranged for reciprocatory movement in the other chamber and adapted to effect a flow of water first in one direction and then in the other through the connection between the lower portions of said chambers, and means for rotating said reticulated cylinder and reciprocating said piston.

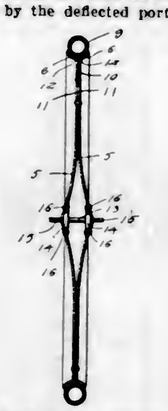
1,471,235. SPIRAL-WIRE-FORMING DEVICE. GEORGE A. BONELLI, Kingman, Ariz. Filed Oct. 31, 1921. Serial No. 511,613. 3 Claims. (Cl. 153—65.)



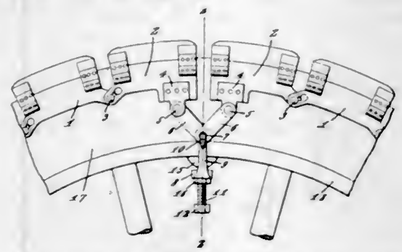
1. A wire coiling device comprising a body, a member, a shaft extending through the member and body to rotatably support the former on the latter, a roller fixed to the shaft, a second shaft journaled in the member, a roller fixed to the second shaft, a third shaft journaled in the body, a roller carried by the third shaft, means for actuating all of said shafts, and a curved arm adjustably connected to the body for holding the member in any desired position.

1,471,236. ROLLER-SKATE WHEEL. EDWARD BOWERS, Paducah, Ky. Filed Nov. 10, 1921. Serial No. 514,257. 1 Claim. (Cl. 301—63.)

A wheel having disk-like body members secured together and provided with outwardly extending annular flanges coacting to form a rim, said members being in direct contact adjacent said flanges and for a considerable distance toward the axis of the wheel, said members being deflected outwardly at said axis, an axle passing through the body members, and abutment members on the axile within the wheel overlapped by the deflected portions of said members whereby fastening of the members together will secure the axle against accidental displacement from the wheel.

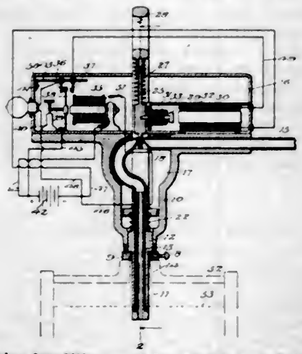


1,471,237. TIRE GUARD. OBEDIAH H. BROWN, Oxford, N. J. Filed Aug. 30, 1922. Serial No. 585,213. 3 Claims. (Cl. 152—14.)



1. In a device of the class described, a tread comprising relatively movable members; converging links pivoted to the tread members at each side thereof; a yoke engaged with the links at each side of the tread members; and a pressure member carried by the intermediate portion of the yoke.

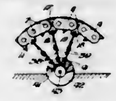
1,471,238. STORAGE-BATTERY FILLER. CHARLES BURKHARD, New York, N. Y. Filed Apr. 20, 1922. Serial No. 555,656. 7 Claims. (Cl. 226—39.)



1. A device for filling containers with any fluid capable of conducting electricity, comprising a flexible tube, a pair

of slidably mounted spring controlled jaws normally clamping the tube closed, means for locking one jaw in a fixed position, manually actuated means for retaining the other jaw spaced from the locked jaw to permit the opening of the tube, and means operated by the rising of the fluid in the container to actuate the locking means to release the locked jaw, permitting it to coact with the other jaw to close the tube.

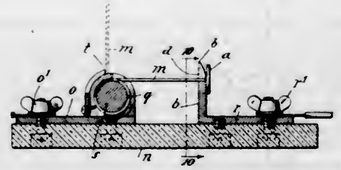
1,471,239. FORM FOR MOLDING CONCRETE AND LIKE STRUCTURES. JOHN CHRISTIE, North Carlton, and ALEXANDER R. LANG, Elsternwick, Victoria, Australia. Filed Oct. 10, 1922. Serial No. 593,562. 11 Claims. (Cl. 25—131.5.)



2. A collapsible form for molding concrete and like structures comprising a series of substantially parallel slats or bars, links and connecting pins pivotally connecting said slats together, said connecting pins being disposed lengthwise of the slats and adapted to form tensioning rods whereby the links may be locked against pivotal movement for the purpose set forth.

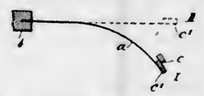
10. A collapsible form for molding concrete and like structures comprising a series of substantially parallel slats or bars arranged in juxtaposition and pivotally connected together, in combination with a socket support and radius rods each being adjustable and adapted to be connected at their outer ends to said collapsible form to support the latter in position for the formation of arches and at their inner ends connected to said socket support substantially as described.

1,471,240. ARC-PREVENTING DEVICE. JULIUS CLOSSMANN and HEINRICH HALBERSTADT, Vienna, Austria. Filed Dec. 16, 1922. Serial No. 607,441. 21 Claims. (Cl. 200—144.)



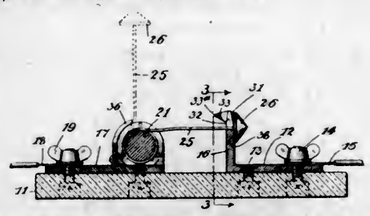
1. An arc preventing device, comprising cooperating switch members, each having on the switch member itself a normal contact area forming the sole electrical connection when the members are in circulating position, and each having a contact area on the switch member itself independent from said normal contact area and serving as the sole electrical connection as the members approach an open circulating relation.

1,471,241. AUTOMATIC ELECTRIC-CIRCUIT BREAKER. JULIUS CLOSSMANN and HEINRICH HALBERSTADT, Vienna, Austria. Filed Dec. 16, 1922. Serial No. 607,442. 25 Claims. (Cl. 200—116.)



1. An automatic circuit breaker, comprising a contact, a unitary spring and homogeneous curent conducting member for completing the circuit with said contact, said unitary spring and current conducting member upon receiving a current above a definite predetermined quantity moving to open circuit position.

1,471,242. SWITCH DEVICE. JULIUS CLOSSMANN, Vienna, Austria. Filed May 15, 1923. Serial No. 639,034. 20 Claims. (Cl. 200—146.)



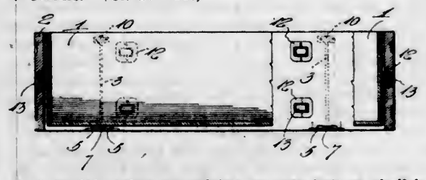
1. In an electric device, a contact member having an effective contact surface at one side thereof and having an arc guiding projection extending awny from the effective contact surface on the other side of the contact member, and a second contact member adapted to be contacted with the effective contact surface of the first contact without contacting with the arc guiding projection, the plane passing through the effective contact surface of the first contact without contacting with the arc guiding projection, the plane passing through the effective contact surface of the first contact member being perpendicular to the plane of the path of movement of the second contact member.

1,471,243. AIRPLANE. HERBERT LAWTON COFFIN, New York, N. Y. Filed Dec. 3, 1919. Serial No. 342,047. 21 Claims. (Cl. 244—29.)



1. In combination, an airplane wing having near each outer end of the wing an opening through the wing extedig logitudinally of the wing in an inward direction, each opening having a downwardly and outwardly inclined side whereby the opening is of greater length at its bottom than at its top; and a movable panel for each of said openings for normally closing the same, the panel having adjacent to the inclined side of the opening a downwardly and outwardly inclined side whereby the panel is longer on its bottom edge than on its top edge and is conformably engageable in the opening; said panels being movable for unclosing the openings for relieving air pressure on said wing when the airplane is in upward flight and causing passage of the air downwardly through said openings and in an outward direction beneath the under surface of the wing for lifting the wing.

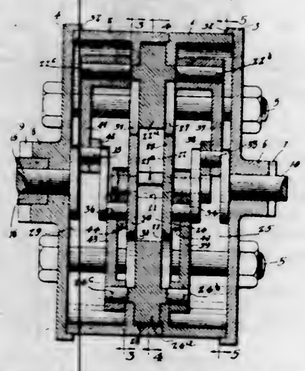
1,471,244. BURIAL CASKET. RUSSELL D. COOK, Salt Lake City, Utah. Filed May 4, 1922. Serial No. 558,333. 7 Claims. (Cl. 27—35.)



1. A burial casket comprising an open bottom shell having rigid relatively immovable sides, a box for containing the deceased arranged inside of the shell and removable through said bottom, and co-acting means between the shell

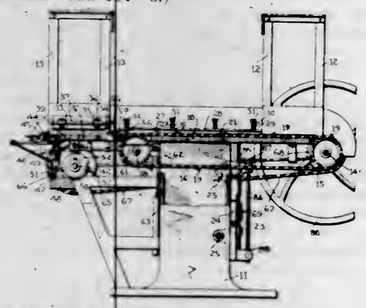
and the box for detachably connecting the latter with the former, said means being manually operated independent of the usual lowering straps or device from the exterior of the crypt.

1,471,245. REVERSING MECHANISM. STEVE CRESSEY, San Pedro, Calif. Filed Apr. 25, 1922. Serial No. 556,495. 11 Claims. (Cl. 74—14.)



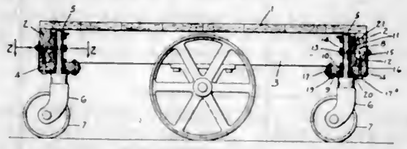
1. In a device of the nature disclosed, a casing, a shaft having a crank element, a second shaft in substantial alignment with the first named shaft, and having two diametrically opposed crank elements, slides carried by the casing and each movable transversely towards and from the axes of the shafts, the line of movement of one slide intersecting the line of movement of the other slide, means connecting the two said diametrically opposed crank elements each with one of the slides, and means connecting the crank element of the first shaft with both slides.

1,471,246. AUTOMATIC GROOVING AND STRIP-INSERTING MACHINE. ERNEST STUART DANIELS, Washington, D. C. Filed Aug. 6, 1923. Serial No. 656,122. 6 Claims. (Cl. 144—3.)



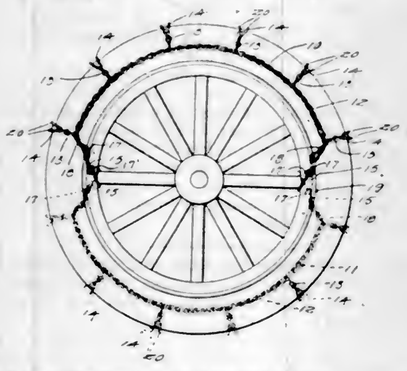
1. In a grooving and strip-inserting machine, the combination with a table, of a hopper mounted on said table adapted to contain articles to be cut, an endless continuously moving conveyor located below said hopper and adapted to remove and convey articles therefrom, means for cutting grooves in said articles while carried by said conveyor, a platform onto which the conveyor delivers, a push-bar engaging behind the delivered articles, a shifting stop-bar between which and the push-bar the articles are temporarily held, oppositely disposed strip-containing hoppers arranged adjacent to said platform in the path of travel of articles delivered from said conveyor, means for projecting strips carried by said hoppers toward the grooved edges of articles retained between said hoppers, and means for operating said push-bar and stop-bar to hold said articles stationary during the strip-applying operation.

1,471,247. SWIVEL FOR TRUCK WHEELS. EMIL DIETZ, Indianapolis, Ind. Filed Jan. 28, 1922. Serial No. 532,401. 5 Claims. (Cl. 280—61.)



1. The combination with a truck frame having an end bar, of a swivel bearing for receiving the shank of a wheel supporting yoke, a substantially L-shaped reinforcing member associated with each bearing and a single bolt member for securing both the swivel bearing and one end of the reinforcing member to the end bar, substantially as set forth.

1,471,248. AUTOMOBILE TIRE CHAIN. SAMUEL E. DINGWELL, Violet, Nebr. Filed May 20, 1922. Serial No. 562,394. 1 Claim. (Cl. 152—14.)



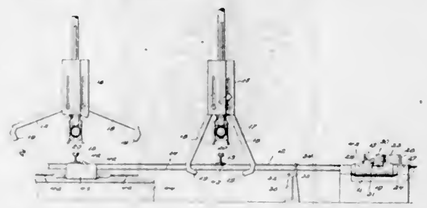
A tire chain consisting of separate sections or members each of a length adapted to embrace a portion of the circumference of a wheel and provided with terminal securing means for engaging the wheel felly and spokes, each of said terminals securing means consisting of a felly hook connected with the free end of one of the side chains of the device, said hook having pivotal connection at its free end with a link, said link having its free end laterally offset and bent to provide a terminal hook, said link adapted to be passed through a link of the side chain at the opposite side of the device and to be doubled back and have its laterally offset terminal hook engaged with the felly engaging hook whereby to securely fasten the felly hook in place.

1,471,249. SPARK PLUG. HENRY EARLE, Warren, Mass. Filed July 19, 1920. Serial No. 397,231. 4 Claims. (Cl. 123—169.)



1. A spark plug having two electrodes, one of the said electrodes having an adherent coating of non-conducting material extending over substantially all its effective surface, a portion of said non-conducting material being removed from a spot opposite the other electrode.

1,471,250. APPARATUS FOR HANDLING AND TREATING RAILS. EDWARD F. ENTWISLE, FRANK E. HOWELLS, and LESTER L. LEACH, Steelton, Pa., assignors to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Mar. 21, 1921. Serial No. 454,236. 7 Claims. (Cl. 266—4.)



1. In an apparatus for handling rails, the combination with a rail conveyor, of a laterally extending support or hot bed for rails at one side of said conveyor, a device for treating rails above said hot bed, means for moving by one continuous action a rail laterally from said conveyor to said support or hot bed and along said hot bed to a position below said device, means for raising said rail from said support for treatment in said device and for depositing it on said support after treatment, and means for moving said deposited rail over said support out of the path of rails being moved from the conveyor over the hot bed.

1,471,251. TIE. JAMES W. FALK, Little Falls, Minn. Filed July 25, 1922. Serial No. 577,387. 2 Claims. (Cl. 238—115.)



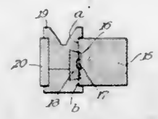
1. A concrete tie, a metallic casting embedded in said tie and lying flush with the upper surface thereof, said casting having a recess, a cushioning element arranged in said recess, a pin interposed between one side of the cushioning element and one wall of the recess, said recess being wider than the cushioning element and provided with a space at the opposite side of said element, a threaded bolt arranged in said space, a rail clamp slidable on said bolt, and a nut associated with the bolt and bearing against said clamp, whereby the latter can be moved downwardly in said space into effective engagement with the base of the rail incident to the wear of the cushioning element.

1,471,252. HIGH-SPEED TOOL AND PROCESS OF MAKING THE SAME. FELIX EUGENE FALVET, Paris, France. Filed Nov. 17, 1920. Serial No. 424,687. 6 Claims. (Cl. 22—200.)

1. In the method of making tools from high speed scrap, the steps consisting in heating said scrap in a closed graphite crucible to a red heat, opening said crucible and adding ferro-cyanide of potassium to said scrap, raising the temperature of said scrap, and casting it to the desired shape.

1,471,253. TYPE-SLUG-CASTING APPARATUS. GORDON B. FIELDS, Jacksonville, Fla. Filed Mar. 24, 1922. Serial No. 546,446. 3 Claims. (Cl. 101—16.)

1. The herein described method of forming matrices for type casting machines consisting of a type carrying block having a shoulder arranged above and below the type and the casting block having a matrix slide therein, the type of the type carrying block being positioned in contact with the slide; and then subjected



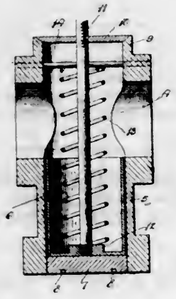
to pressure to force the type into the slide, until the shoulders of the type carrying block engage the face of the casting block to form a matrix for use in type casting machines.

1,471,254. BALL OR ROLLER BEARING. ARCHIBALD WALLACE FORBES, Santo Domingo Republic, West Indies. Filed Dec. 12, 1922. Serial No. 606,430. 7 Claims. (Cl. 64—37.)



3. Means for corelating the elements of a bearing of the type having three elements capable of relative-sliding motion, comprising a corelating member reciprocable in a slot in the intermediate element and adapted to travel in oppositely directed diagonal guide grooves in the outer elements.

1,471,255. AUXILIARY AIR VALVE. PRESTON FOWLER, Gordon, Nebr. Filed Mar. 2, 1921. Serial No. 449,068. 1 Claim. (Cl. 277—20.)

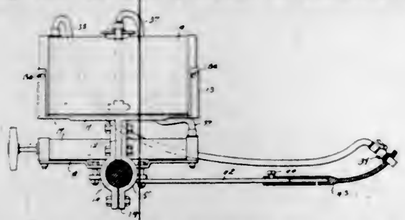


A device for the purpose set forth comprising a valve casing having a passage therethrough and an inlet opening in one side, an extension on the opposite side of the valve casing, a hollow cylindrical valve slidably mounted in said extension, a valve adapted to close the inlet opening, an abutment extending across the inlet opening, a stem rigidly connecting the hollow cylindrical valve and the second-mentioned valve, means for manipulating said valve stem, and an expansion spring coiled around the valve stem between the abutment and the bottom of the hollow cylindrical valve.

1,471,256. SPRAYER. JOHN C. FREDERICK, Bethlehem, Pa. Filed Feb. 24, 1920. Serial No. 361,069. 8 Claims. (Cl. 299—30.)

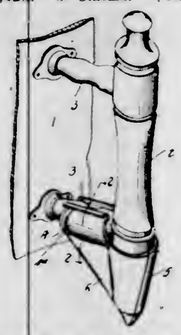
1. A spraying device for use with plows or cultivators, comprising a tank having a spray nozzle, a cradle for supporting the tank having means for detachably

securing it to a plow or cultivator, a pump communicating with the tank, a bracket for supporting the



pump having means for detachably securing it to a plow or cultivator, and a swinging and extensible arm to which the spray nozzle is secured.

1,471,257. PERCOLATOR-HANDLE PROTECTOR. MAE H. GEARTTS, Marinette, Wis. Filed July 25, 1922. Serial No. 577,423. 3 Claims. (Cl. 53—3.)



3. Means for preventing the burning of the lower portion of the wooden handle of a percolator or like utensil, consisting of a socket, a clip and an intermediate brace, said parts being constructed of sheet metal and the socket being depressed below the clip whereby to expose a maximum amount of the handle to prevent contact of the hand with the protector.

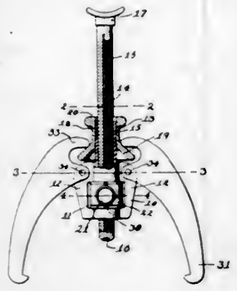
1,471,258. DOUCHE APPARATUS AND TOILET ATTACHMENT. MAE GLINES, Chicago, Ill. Filed Nov. 29, 1921. Serial No. 518,624. 5 Claims. (Cl. 45—50.)



1. A supporting device of the character described comprising a platform like body member provided at one end with supporting legs and a head rest and having its other end cut away and adapted to be engaged upon the upper edge of a toilet bowl, and means depending from the underside of said cut away end for clamping engagement upon the edge of the toilet bowl.

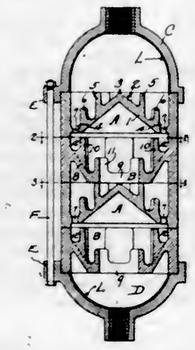
1,471,259. GEAR PULLER. EDWARD E. GOOD, Bluffton, Ohio. Filed Jan. 27, 1922. Serial No. 532,309. 1 Claim. (Cl. 29—85.)

A puller of the character described comprising a frame formed with an opening and having a cylindrical externally threaded extension, the extension and the frame being formed with a smooth bore intersecting said opening, a plurality of arms pivoted upon the frame and terminating in hooks adapted for engagement with the element to be pulled, said arms being pivoted intermediate their ends and having the ends opposite the hooks formed with cut out portions defining ex-



tensions, an operating screw splined through the frame, a nut member threaded upon said extension and having a tapered flange extending within the cut out portions of the arms with its outer surface bearing against said extensions of the arms, a ratchet threadedly engaged upon said screw within said opening, and a pawl equipped lever for rotating the ratchet.

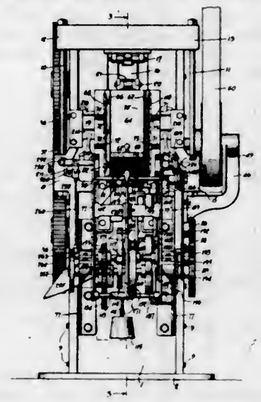
1,471,260. MIXER FOR OZONE WATER-PURIFYING APPARATUS. HARRY BUXTON HARTMAN, Scottdale, Pa., assignor to Electric Water Sterilizer and Ozone Company, Scottdale, Pa., a Corporation of Pennsylvania. Filed Jan. 12, 1920. Serial No. 350,818. 2 Claims. (Cl. 261—95.)



1. A fluid mixing column comprising inlet and discharge caps, a plurality of paired baffle units clamped between said caps and each pair consisting of sections having rink-like outer walls and one of said sections having a conical inner wall having spaced upstanding staggered abutments and openings between the base of the conical inner wall and the ring-like outer wall, and the other of said sections having an inverted frusto conical interior wall providing a central opening and also having upstanding baffle walls thereon, and means for connecting the caps to hold the units in assembled relation.

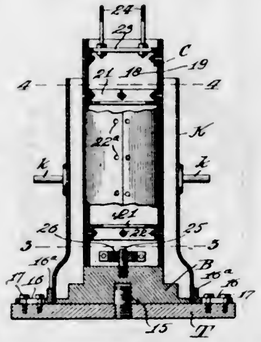
2. A tubular mixing column comprising end caps and a plurality of ring-like baffle sections arranged in stacked relation between said caps and having reversely related conical baffle walls, one of said walls being perforated near its base, and the other being truncated to provide an axial outlet.

1,471,261. COUNTER-MOLDING MACHINE. SIDNEY JOHNATHAN HEATH, Johnson City, N. Y. Filed Dec. 5, 1921. Serial No. 519,995. 67 Claims. (Cl. 12—66.)



1. A counter forming machine comprising a mold for forming the counter, preliminary bending mechanism for bending a blank into a substantially U-shaped structure, means for feeding blanks to said preliminary bending mechanism, means for grasping the side edges of the blank bent thereby and transferring the blanks while bent to said mold, and means for doffing the finished counters from said mold.

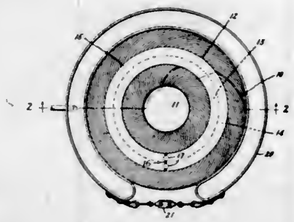
1,471,262. PIPE MOLD. OTTO F. HEER, Ontario, Calif. Filed Feb. 9, 1922. Serial No. 535,177. 6 Claims. (Cl. 25—120.)



2. A pipe mold comprising a turntable, a bell ring sustained on the turntable, a centering pin carried by the turntable and engaging the bell ring for centering the latter on the turntable, a casing surrounding the bell ring, clamping bars adjustable on the turntable and co-operating with the bell ring for fixedly securing the casing to the turntable, a core sustained on the bell ring, a block carried by the core, and a pin on the bell ring and engaging said block for centering the core on the bell ring.

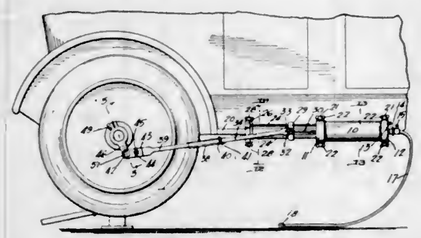
1,471,263. ELECTRICAL APPARATUS. HENRY M. HOBART, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 28, 1919. Serial No. 320,479. 5 Claims. (Cl. 175—361.)

1. The combination with stationary induction apparatus comprising a core and windings, said windings being completely enclosed by the core and in close thermal relation therewith, of a fluid container having a wall of good thermal conductivity in close contact with



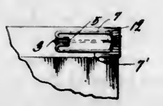
an outer face of said core, whereby said windings are protected from and are in good thermal relation with the contents of said container.

1,471,264. TIRE-INFLATING APPARATUS FOR AUTOMOBILES. JAMES H. HOWARD, Los Angeles, Calif. Filed Aug. 22, 1921. Serial No. 494,238. 6 Claims. (Cl. 230—27.)



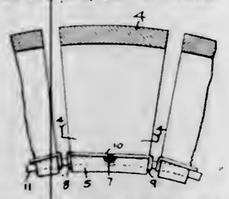
1. In a tire inflating apparatus, a cylinder, means on said cylinder for clamping it upon a fixed support, a piston and piston rod arranged for operation within said cylinder, a cross head secured to the outer end of the piston rod, guide rods for said cross head which guide rods are arranged to slide into the cylinder, means for securing the outer ends of said guide rods to a fixed support, and a connecting rod detachably connected to said cross head and adapted to be connected to a power driven member.

1,471,265. BARBER-CLOTH PIN. JAMES C. HUGHEN, Winnfield, La. Filed Jan. 31, 1923. Serial No. 616,153. 2 Claims. (Cl. 24—159.)



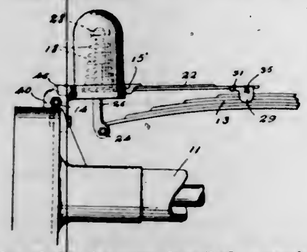
1. A pin of the class described formed from a single strand of resilient wire having its ends pointed, said strand of wire being curved so as to provide a main pin member having one of the pointed ends, said main pin member terminating at its opposite end in a convolution and then extending to form a side strand, a U-shaped engaging member for the main pin mounted on the side strand, a second side strand formed on said U-shaped engaging member and extending substantially parallel with the first side strand and terminating in a hooked extension passing through the convolution, said hooked extension being provided with the other of said pointed ends.

1,471,266. PROTECTIVE CASING FOR TIRES. MARTIN L. HUNDEBY, San Francisco, Calif. Filed Apr. 17, 1922. Serial No. 553,725. 3 Claims. (Cl. 152—16.)



3. In combination with a pneumatic tire casing of an over-tire therefor, comprising a plurality of independent tread sections; each having a hole through the opposite edges thereof, between the ends, adapted to pass around the said casing; metallic hook members detachably secured to the opposite edges of each of said thread sections and projecting through the hole and around the ends beyond the exterior thereof; a pair of annular split rings adapted to engage the projecting hooks on the opposite sides of the tread sections at spaced intervals around the periphery of said pneumatic casing; and means for joining the ends of said split rings together.

1,471,267. SHOCK ABSORBER. PAUL K. JONES, Clinton, Mo. Filed June 3, 1921. Serial No. 474,626. 1 Claim. (Cl. 267—17.)



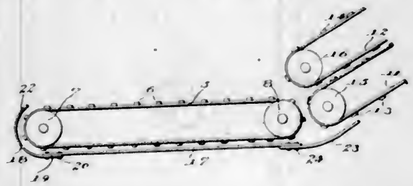
In a device of the character described, a perch, a lever pivoted thereon having an intermediate circularly recessed enlargement having a channel longitudinally therecross and a slot through the outer side forming a continuation of the channel, a leaf spring forming a continuation of the lever set in said channel and projected through said slot a distance, said spring and lever having longitudinal slots formed therethrough centrally of the recess, means to secure the spring in the lever, a helical spring mounted concentric with said recess, a bolt supported on the upper end of the spring and projected slidably through the slots, and having limited oscillation therein, and a main leaf spring hung upon the lower end of the bolt, said first named spring bearing at its outer end upon an intermediate part of the last named spring.

1,471,268. DETACHABLE TIRE CARRIER. WALTER E. KELLY, Highland Park, Mich. Filed Sept. 15, 1921. Serial No. 500,829. 7 Claims. (Cl. 224—29.)



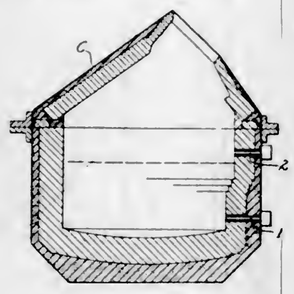
4. In a spare tire carrier, diverging arms having their adjacent ends secured together, rim engaging pads secured to the outer ends of said arms intermediate of the ends of said pads, said pads having a bow shaped portion at each side of the arms adapted to engage the edges of rims and provide a space between the rims and bows, and one of said arms including means for adjusting said arms to urge said pads toward and from each other to thereby attach and detach the carrier to and from a permanent carrier and to fix a second rim in place on the detachable carrier.

1,471,269. GRAIN SAVER. CHARLES F. KLUTH, Wibaux, Mont. Filed Feb. 2, 1922. Serial No. 533,626. 6 Claims. (Cl. 56—207.)



1. A grain saving attachment for grain conveyors consisting of a shield mounted in fixed relation to the inner end of the binder platform bottom beneath the space between the grain receiving conveyor and the grain elevating conveyors of the binder and curved upwardly, and a substantially semi-circular shield mounted in fixed relation to the outer end of said platform bottom and extending upwardly and partly over the grain receiving conveyor, as and for the purposes specified.

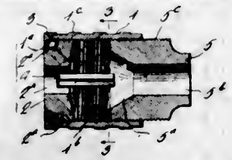
1,471,270. PROCESS FOR MAKING IRON AND STEEL FROM SMELTER SLAGS. CHARLES R. KUZELL, Clarkdale, Ariz. Filed Aug. 15, 1921. Serial No. 492,341. 6 Claims. (Cl. 75—76.)



1. The process of manufacturing iron from smelter slags which consists in subjecting a charge of molten slag to the action of a blast of air charged with powdered carbonaceous fuel directed into the bath of slag below the surface thereof, continuing the blowing operation with an excess of fuel in the presence of suitable fluxing material permeating the bath, and projecting above the bath a blast of a supporter of combustion.

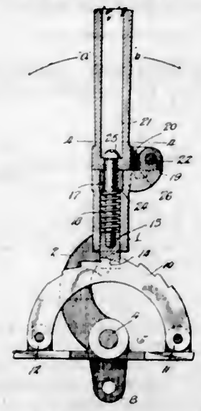
1,471,271. DRILL CHUCK. CHARLES BOMBERGER LONG, Lancaster, Pa., assignor to Champion Blower & Forge Company, Lancaster, Pa., a Corporation of Pennsylvania. Filed May 28, 1921. Serial No. 473,476. 3 Claims. (Cl. 279—64.)

1. In a chuck, a cylindrical body, a revoluble jaw-carrying member within said body carrying radially slidable jaws rockingly mounted thereon for clamping a tool therebetween, each jaw having a socket in one side thereof and supports for said jaws pivoted intermediate their ends to said member so that in assembling or disassembling the chuck one end of the support may swing into and out of engagement with a socket in the adjacent jaw, springs acting on the free ends of said supports



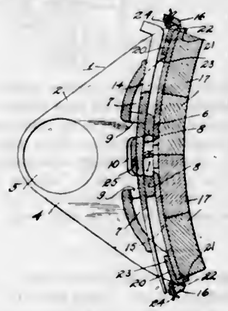
tending to force the jaws apart, and a nut screwed into said body and adapted to operate said jaws for clamping a tool therebetween.

1,471,272. CONTROL LEVER. JOHN W. LORIMER, San Francisco, Calif. Filed Sept. 20, 1922. Serial No. 589,436. 2 Claims. (Cl. 24—39.)



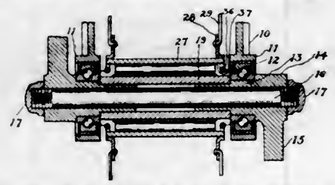
1. A device such as described, comprising a hollow lever arranged relative to a notched bar; a handle pivoted to said hollow lever, having a hollow center and provided with an internal shoulder thereon; and a latch slidably confined within said hollow lever, having an end engageable with said notched bar, said latch having its opposite end related to the internal shoulder in said hollow handle, whereby said latch may be manually disengaged from said notched bar when moved in one direction.

1,471,273. BRAKE SHOE. WILLIAM O. LOTT, Columbus, Ohio. Filed Sept. 12, 1921. Serial No. 499,944. 3 Claims. (Cl. 188—240.)



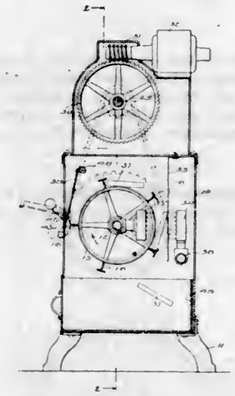
3. In a brake-shoe, a body formed to include an arcuate outer face having a socket formed intermediately thereof, an arcuate metallic strip conforming and positioned adjacent to the outer face of said body, removable wear blocks of duplicate formation positioned upon said strip, shoulders provided at the ends of said strip, members in engagement with said shoulders for retaining said blocks against circumferential displacement upon said strip, a projection formed with said strip intermediately of its length and arranged to be positioned within said socket, and an arcuate tapering wedge pin arranged to pass through registering openings formed in said body and projection for frictionally uniting the said blocks with said body.

1,471,274. COASTER BRAKE WITH BACK-PEDALING DEVICE. GORDON T. MALAN, Philadelphia, Pa., assignor to A. Mecky Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 28, 1922. Serial No. 547,353. 16 Claims. (Cl. 192—6.)



1. In combination, a rotatable drive means; a driven member rotatable relative to the drive means when the drive means is at rest; means whereby the driven member is turned forwardly; and an additional means movable radially outwardly, whereby, when the drive means is rotated backwardly, the driven member is thereby rotated backwardly.

1,471,275. TOASTER. ELIE J. MONEUSE, Palisade, N. J. Filed Aug. 9, 1922. Serial No. 580,743. 11 Claims. (Cl. 126—41.)

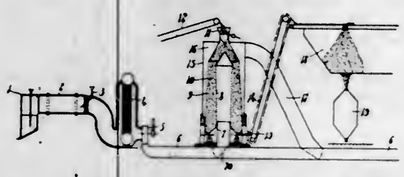


1. A bread toaster, comprising a casing, a drum provided with supporting means for receiving the bread rotatably mounted in the casing, means for revolving the drum, means for feeding the bread onto said bread receiving means, and means provided in conjunction with the drum for operating said feeding means.

1,471,276. RECOVERING VALUABLE PRODUCTS FROM GASES. OTTO NORDSTRÖM, Sundsvall, Sweden. Filed July 7, 1922. Serial No. 573,449. 1 Claim. (Cl. 92—2.)

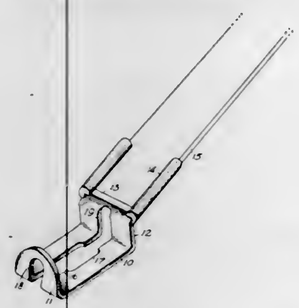
A method of filtering waste gases from soda furnaces of sulphate cellulose mills which consists in passing said gases and chips of wood through a filtering shaft so as

to cause the hot gases to dry said chips of wood, which will in turn remove dusty and sublimating products from the gases, and then passing said chips of wood together



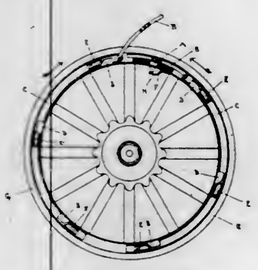
with the products absorbed thereby to a sulphate cellulose boiler without first separating said products from said chips of wood.

1,471,277. WRENCH FOR AUTOMOBILE PARTS. FRANK B. PARKER, Robinson, Kans. Filed Dec. 11, 1922. Serial No. 606,157. 3 Claims. (Cl. 81—119.)



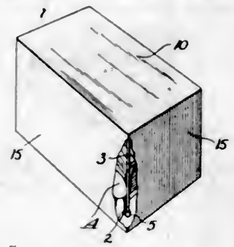
1. A wrench of the class described including a head having upturned front and rear ends formed with a slot longitudinally of said head and extending into said upturned ends, said slot between the upturned ends being widened approximately equidistant from said ends.

1,471,278. DEMOUNTABLE RIM FOR AUTOMOBILES. RODOLPHE PERRAULT, Montreal, Quebec, Canada. Filed Mar. 31, 1921. Serial No. 457,558. 3 Claims. (Cl. 301—11.)



1. The combination with a wheel such as described, including a rim, a demountable rim fitted thereon and having sockets formed therein and spaced apart, arcuate bars slidably carried by the wheel rim, locking elements connected to the arcuate bars, and means for moving the bars to and from each other and forcing the locking members into the sockets of the demountable rim.

1,471,279. COVER SUPPORT FOR MOTOR VEHICLES. JOE RAGGIS, Los Angeles, Calif. Filed Jan. 19, 1923. Serial No. 613,732. 5 Claims. (Cl. 135—1.)



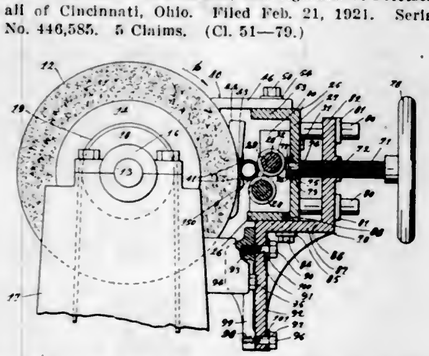
1. A cover support for motor vehicles comprising a set of posts adapted to be erected at the corners of the vehicle, and means for fastening the lower portions of the posts to convenient parts of the vehicle.

1,471,280. TROLLING SPOON. ANDREW REEKERS, Portland, Oreg. Filed Dec. 6, 1920. Serial No. 428,686. 7 Claims. (Cl. 43—45.)



1. In a trolling spoon, a flat body portion and a portion composed of a fragment of a cone, said body portion intersecting said conical portion.

1,471,281. POLISHING MACHINE. ELMER F. RIES, Harrison Pike, Cincinnati, Ohio, assignor to Max Schmidt, trustee for himself, Elmer F. Ries, Emil Neubacher, Theodore O. Bumiller, and Sigmund V. Frietsch, all of Cincinnati, Ohio. Filed Feb. 21, 1921. Serial No. 446,585. 5 Claims. (Cl. 51—79.)

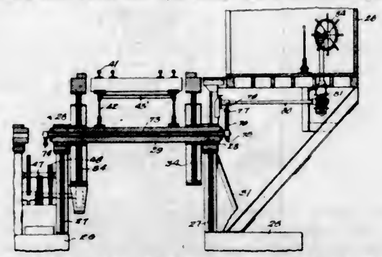


1. In a polishing machine, a main frame, an abrasive element, operatively mounted in said frame, an inclinable work support adjustably secured to said frame, comprising a rail, a plurality of guide rollers mounted on said rail, a plurality of guiding heads adjustably mounted on said rail, coacting with said guide rollers, means for adjusting said work support toward and from said abrasive element, and means for inclining said work support.

1,471,282. BRIDGE CONSTRUCTION. STEPHEN A. ROAKE, Bloomfield, N. J. Filed May 10, 1921. Serial No. 468,231. 6 Claims. (Cl. 14—41.)

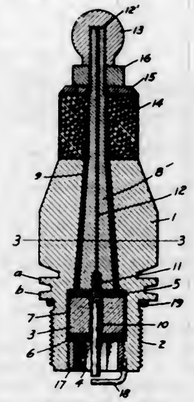
1. In bridge construction including supporting girders, hollow shafts mounted in bearings carried by said supporting girders, span girders mounted on said hollow

shafts, and a latch for locking the span girders in position, a latch operating mechanism comprising a secondary shaft mounted in either of said hollow shafts, a plurality of levers and links for operating the latch through the



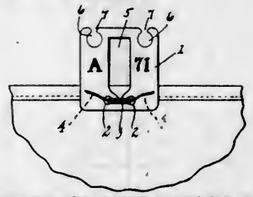
secondary shaft, and members for operating the secondary shaft which are so constructed that they are not affected by the rotation of the secondary shaft by the girder carrying shaft.

1,471,283. SPARK PLUG. JOSEPH A. ROGERS, Rumney Depot, N. H. Filed Jan. 5, 1922. Serial No. 527,114. 3 Claims. (Cl. 123—169.)



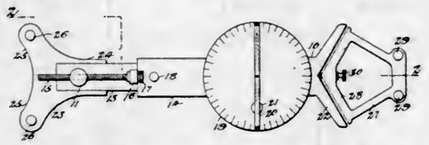
1. A spark plug comprising a main body portion having the usual screw-threaded end, a removable central core insulated from the main body portion, an electrical conductor of better conductivity than steel extending through said central member, a negative electrode carried by the main body portion, a fused quartz bushing beneath the removable central member, means for retaining the fused quartz bushing in place in the main body portion, and a positive electrode extending through the bushing and connected to the end of the conductor in the removable central member.

1,471,284. LAUNDRY TAG. MORRIS G. ROSENTHAL, Cincinnati, Ohio, assignor of one-half to Fred E. Klein, Cincinnati, Ohio. Filed Apr. 12, 1922. Serial No. 551,882. 3 Claims. (Cl. 40—20.)



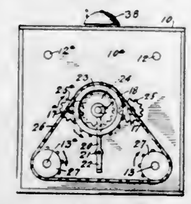
1. A marking tag for laundry articles, comprising a flat, stiff plate having a central aperture, and a pair of apertures located at one end of the central aperture, said central aperture being adapted for suspension of the tag with the article attached thereto, and the pair of apertures being adapted for receiving stitches, whereby the tag is mounted on an article in the laundry.

1,471,285. WHEEL-QUARTERING GAUGE. ROBERT R. ROYAL and DANIEL HINES BROWN, McComb, Miss. Filed May 9, 1922. Serial No. 559,517. 3 Claims. (Cl. 33—181.)



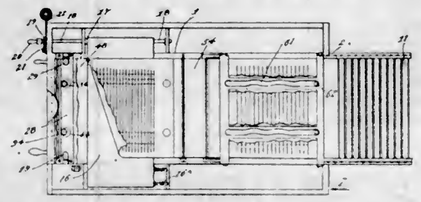
1. A quartering gauge having means adjacent its opposite ends to engage respectively in the end recess of the axle, and a wrist pin of the wheel as usual and having an extension at each end beyond the said gauge means, each of the end extensions having laterally projecting members at a face of the gauge to enter respectively in the main bore of the wheel and in the wrist pin bore thereof.

1,471,286. PASSENGER-CAR SIGNAL. ELMER SHARPE, Hamilton, Ontario, Canada. Filed Sept. 26, 1921. Serial No. 503,181. 2 Claims. (Cl. 40—31.)



1. A device of the class described comprising a casing provided with a pair of oppositely disposed windows; a pair of winding rollers journalled in said casing; a pair of guiding rolls journalled in said casing adjacent each window; a web provided with indicating characters secured to said winding rollers and passing over said guiding rolls; a gear rigid with each of said winding rollers; a gear pivotally mounted on said casing adapted to engage either of said first mentioned gears to drive said rollers; sprocket and chain connections between two of said guiding rolls and said last named gear, said connections permitting the oscillation of said gear about its pivot; and means for positively driving one of said guiding rolls.

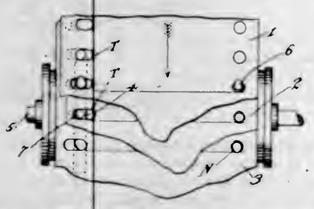
1,471,287. FLAT-BED MANIFOLDING DEVICE. JOHN Q. SHERMAN, Dayton, Ohio. Filed Nov. 12, 1920. Serial No. 423,689. 54 Claims. (Cl. 197—126.)



1. In a manifolding register, the combination of a writing machine structure, a storage cabinet structure, movable means on the writing machine structure for engaging perforations in a series of webs of paper as they lie in the register, said movable means having an operating de-

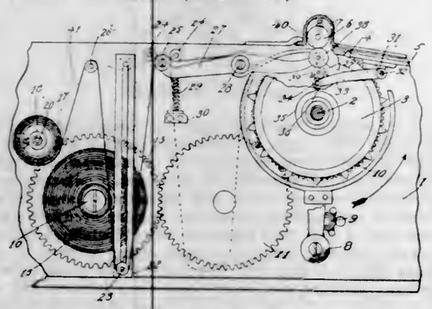
vice capable of movement of so limited a range as to jog but not feed said webs, and means for feeding paper from the storage cabinet independent of its movement through the writing machine, whereby a loose accumulation of paper may be maintained, and looseness of the webs during the jogging motion thereby provided.

1,471,288. MANIFOLDING PAPER. JOHN Q. SHERMAN, Dayton, Ohio. Filed Mar. 11, 1921. Serial No. 451,626. 8 Claims. (Cl. 282—12.)



2. A paper for manifolding use, which comprises webs of paper having a plurality of sets of consecutively arranged holes extending longitudinally of the webs, said holes having feeding walls in substantially fixed relation to each other, and one of the sets of holes, at least, having its dimensions widely variant transversely of the web from the size of the feeding pins which are to be employed, whereby allowance is made for variations in the paper when fed by pin bearing bodies having a fixed relation to each other.

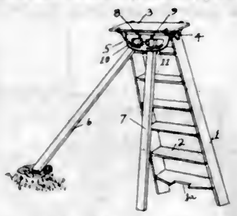
1,471,289. MANIFOLDING MACHINE. JOHN Q. SHERMAN, Dayton, Ohio. Filed May 28, 1921. Serial No. 473,533. 25 Claims. (Cl. 282—16.)



8. In a manifolding machine, means for feeding a plurality of strips of paper including a record strip, a rewind roll for the record strip, driving connection intermediate the feeding mechanism and the rewind roll, a sliding bar engaging over the paper to maintain a taut loop thereof adjacent the rewind roll, and a clamp for the paper located between the feeding means and the sliding bar, said clamp comprising in part a movable bar, and operating means for the bar controlled by the feeding devices adapted to move the bar to clamping position during the feeding movement of the feeding means and release it at the conclusion of each feeding movement, an operating handle for the feeding means, and a locking device to releasably retain the handle at the conclusion of each feeding movement.

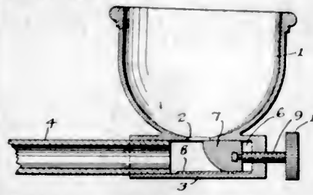
1,471,290. LADDER. CHARLES C. STEVENS, Saginaw, Mich., assignor to The Saginaw Ladder Co., Saginaw, Mich., a Corporation of Michigan. Filed Dec. 15, 1922. Serial No. 607,100. 1 Claim. (Cl. 228—31.)

A step ladder having brackets at the sides thereof, an angularly movable bar having a pair of slotted quadrants integral therewith, integral laterally extending lugs at the ends of said bar, the faces of said lugs engaging the faces of said brackets and secured thereto by pivot pins, a pair of legs on one face of said bar, a plate extending across the back faces of said legs and a pair of pivot pins



each passing through said bar, and through one of said legs and said plate, and a pin on each leg slidingly engaging the slot of one of said quadrants, for the purposes set forth.

1,471,291. SEED SOWER. MAX SCHLING, New York, N. Y. Filed Nov. 4, 1922. Serial No. 599,170. 2 Claims. (Cl. 221—119.)



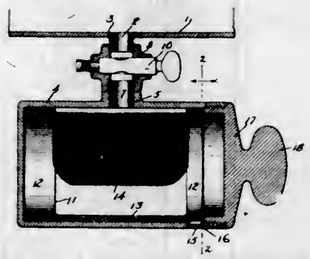
1. A seed-sower comprising an integral, substantially pipe-shaped device adapted to be held in the hand, having a bowl with a seed-opening in the bottom, and a laterally projecting sowing tube terminating in a sowing orifice, and formed with a chamber beneath the seed-opening and at the rear end of the sowing-tube, in combination with a longitudinally movable regulating slide in said chamber coacting with the opening between the bowl and the tube.

1,471,292. STOP MOTION. KARL SLOAT, Scranton, Pa.; Louise E. Sloat, administratrix of said Karl Sloat, deceased, assignor to Scranton Silk Machine Company, Scranton, Pa., a Corporation of Pennsylvania. Filed Aug. 6, 1921. Serial No. 490,303. 10 Claims. (Cl. 118—7.)



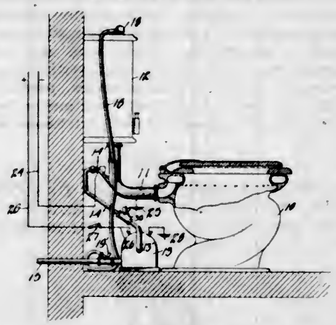
1. In a stop motion, the combination with a thread controlled element, of a continuously moving member, a reciprocatory carriage, a spring tending to retain said carriage in an advanced position, and an element mounted on said carriage and movable by the thread controlled element into the path of said continuously movable member whereby said carriage is shifted into a retracted position.

1,471,293. STRAINER. CHARLES H. STURGIS, Granville, Ill. Filed Oct. 15, 1921. Serial No. 507,963. 2 Claims. (Cl. 210—165.)



1. A device of the character described, including a casing having a horizontally elongated chamber, an inlet port leading to the roof of said chamber intermediate the chamber ends, and an outlet port from said chamber at a point below the inlet port; a cup-like strainer; an elongated skeleton frame on which the strainer is mounted at its rim to extend the body of the strainer within the frame transversely thereof intermediate its ends; and coacting means carried by the frame and the casing whereby the frame may be endwisely completely seated in the chamber only when the rim of the strainer lies in a substantially horizontal plane.

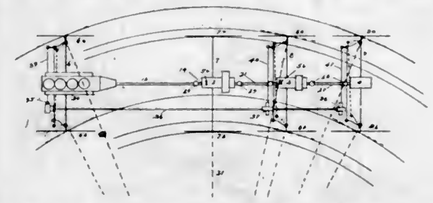
1,471,294. COMBINED TOILET FAN AND HAIR DRIER. WALTER C. SUMMER and WILLIAM L. MINICK, Jr., Waynesboro, Pa. Filed Dec. 9, 1920. Serial No. 429,560. 10 Claims. (Cl. 4—21.)



1. A toilet fan attachment comprising a bowl, a flush tank, a pipe connecting them, a fan adjacent the bowl, an electric switch adjacent said pipe for controlling the operation of the fan, a second pipe attached to the first and connecting the fan thereto to draw air from the bowl, means for connecting the outlet side of the fan casing to the outer air, and means whereby said switch is operated by the flow of water from the flush tank to the bowl to stop the fan, substantially as set forth.

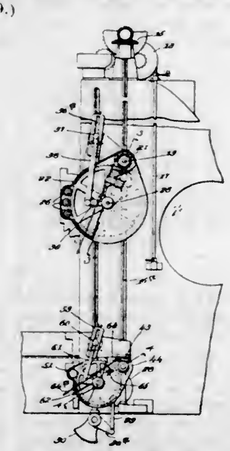
1,471,295. SIX-WHEEL PROPELLING MECHANISM FOR MOTOR VEHICLES. JAMES MADISON THORP, Alameda, Calif. Filed Oct. 8, 1921. Serial No. 506,385. 6 Claims. (Cl. 74—99.)

1. A three-way differential, comprising a propeller shaft, a spider shaft flexibly connected thereto, a spider fixed to one end of said spider shaft, integrally made inner and outer planet pinions mounted upon said spider, an integrally made gear, worm and hollow shaft rotatably mounted on said spider shaft, said gear meshing with the inner planet pinions, a second gear meshing with the outer planet pinions and fixed to one end of a second spider shaft, a second spider fixed upon the other end of said second spider shaft, planet pinions mounted upon



the second spider, a third gear meshed with the pinions on said second spider, a second worm and hollow shaft made integral with said third gear and rotatably mounted upon the second spider shaft, a fourth gear meshed with the pinions on said second spider, a terminal shaft keyed to a third worm and to said fourth gear, worm gears engaging all of said worms, and bearings and housings for all of said shafts and gears.

1,471,296. POWER TRAVERSE AND FEED MECHANISM FOR PLANERS. ALFRED TROSCH, Rochester, N. Y., assignor to Arthur H. Ingle, Rochester, N. Y. Filed Mar. 6, 1920. Serial No. 363,765. 6 Claims. (Cl. 90—49.)

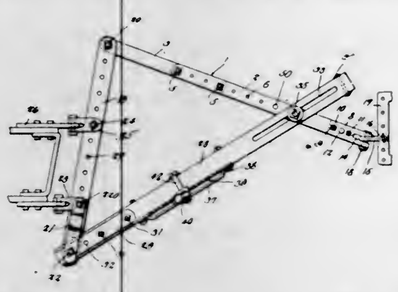


1. A planer, comprising a crossrail equipped with means for moving a tool head thereon, a rapid traverse connection to said tool head moving means including a shaft extending vertically alongside one of the planer uprights, a connection for imparting relatively slower feed movement to such tool head including another shaft extending vertically alongside a planer upright, and means for selectively engaging said shafts with the tool head moving means, said engaging means for the two shafts being interconnected whereby only one of them may be engaged at the same time.

1,471,297. PLOW HITCH. JOHN WANSING, Meta, Mo. Filed Dec. 23, 1920. Serial No. 432,754. 1 Claim. (Cl. 280—33.11.)

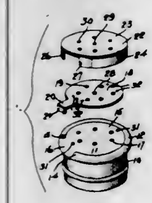
A plow hitch comprising a traction bar including relatively movable parts permitting an adjustment in the length of the bar; means for holding said parts of the bar against relative movement and in adjusted positions;

a plow-carrying bar pivoted to the traction bar; a third bar; means for pivotally connecting the plow-carrying bar with the third bar at adjusted points longitudinally of the third bar; means for mounting the third bar slidably on the traction bar; a frame extended longitudinally of the outer edge of the third bar and spaced therefrom,



the frame constituting a reinforcement for the third bar; a pivot element carried by the frame and located in horizontal alinement with the third bar; a lever mounted to swing on the pivot element; a brace connected to the traction bar and extended longitudinally of the third bar; and means for connecting the lever pivotally with the brace at adjusted points longitudinally of the brace.

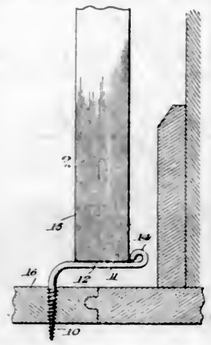
1,471,298. SIFTER TOP FOR CONTAINERS. LOUIS A. WEGENAAR, Brooklyn, N. Y. Filed July 1, 1921. Serial No. 481,857. 1 Claim. (Cl. 221—64.)



A sifter top for containers comprising a body including a closed end provided with an arcuate upstanding bead, a retaining cap having a closed end fitted over the body and provided with a cutaway portion in the side wall thereof corresponding in width to the distance between the extremities of the arcuate rib, the closed ends of the body and retaining cap having aligned perforations therein, and a closure disk having discharge perforations therein interposed between the body and cap, said disk having a concentric perforation, a concentric depression in the cap engageable with the concentric perforation of the disk, the closed end of the body having diametrically disposed depressions therein and a plurality of depending teats selectively engageable with said depressions for respectively maintaining the discharge openings in the disk in and out of registration with the aligned apertures of the body and cap, a peripheral lug on the disk extending through the space between the extremities of the arcuate bead and the cutaway portion of the cap.

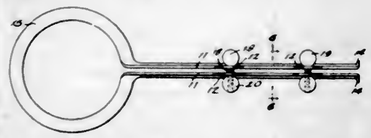
1,471,299. DOOR STOP. HENRY C. WILLIAMS, Altoona, Pa. Filed Dec. 6, 1921. Serial No. 520,315. 1 Claim. (Cl. 292—76.)

A new article of manufacture formed from a single piece of resilient material, including a screw like portion adapted to be screwed into a supporting element, a predetermined distance, an angularly disposed portion emerging from the screw like portion and bent away from the screw like portion at a slight inclination, serrations formed on one surface of the angular portion and adapted to be arranged in the path of a swinging element to



check the movement thereof, and a loop formed on the free end of the angular portion to limit the motion of the swinging element in that direction.

1,471,300. COMBINED STOP AND HANDLE FOR BORE-CLEANING RODS. EDWARD HENRY WILLIAMS, Eureka, Calif. Filed May 2, 1923. Serial No. 636,210. 4 Claims. (Cl. 42—91.)



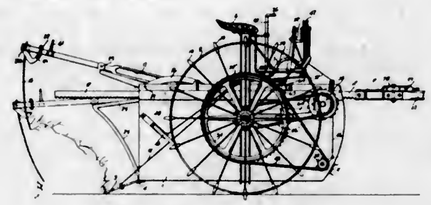
1. The combination with a cleaning rod for the bore of gun barrels, of a member longitudinally adjustable on said rod to constitute a stop engageable with one end of the barrel to prevent the projection of said rod from the opposite end of the barrel, said member comprising a substantially split ring-shaped handle, parallel extensions from the end of said handle, and means for effecting a clamping engagement of said extensions with the cleaning rod.

1,471,301. SUSPENDER CONNECTION TO STOCKINGS. GRACE E. WINTERHALDER, Kamloops, British Columbia, Canada. Filed Mar. 24, 1922. Serial No. 546,498. 3 Claims. (Cl. 24—248.)



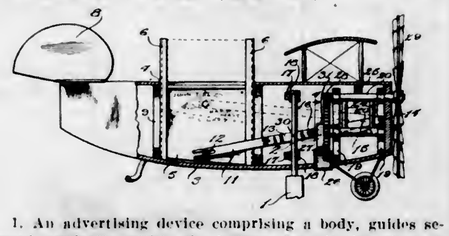
1. A suspender fastening, comprising a wire loop, the loop end of which is bent to form a hook and the free ends of which are bent to form eyes, a lever member bent to form a loop, the loop end of which is a straight bar and the free ends of which are bent at right angles toward one another and intermediate the loop and the free end the wire is offset inward and passed through the eyes of the hook, a tubular sleeve fitted on the inwardly turned free ends of the lever member, and a retaining member bent as a loop, the slightly convexed loop end of which is wider than the loop of the hook and the free ends of which are bent as eyes to fit on the straight bar of the lever member.

1,471,302. MANURE REMOVER AND SPREADER. HERBERT CARSWELL WRIGHT and WILLIAM JOHN WRIGHT, Oak Lake, Manitoba, Canada. Filed Aug. 11, 1921, Serial No. 491,413. Renewed July 12, 1923. 20 Claims. (Cl. 214—1.)



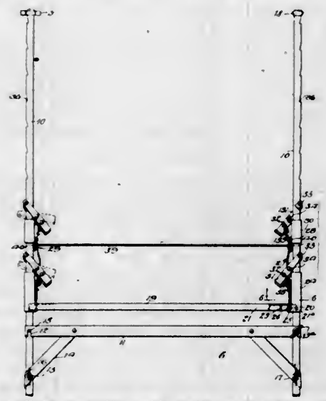
1. In a machine of the class described, a wheeled manure receptacle, draft apparatus associated therewith, means for loading manure into said receptacle, and means connecting the draft apparatus and loading mechanism, whereby said loading mechanism is operated through force supplied to said draft apparatus.

1,471,303. ADVERTISING DEVICE. WILLIAM D. WRIGHT, Lynchburg, Va. Filed Oct. 14, 1922. Serial No. 594,506. 5 Claims. (Cl. 40—37.)



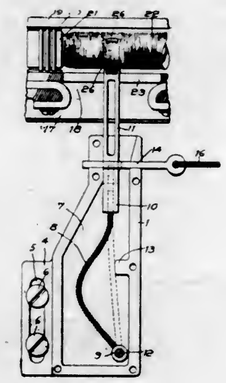
1. An advertising device comprising a body, guides secured vertically within the body and projecting through the top of the same, a display member slidably fitted in and extending between said guides, a lever pivotally supported within the body at the front end thereof and having its rear end operatively connected with the lower end of the display member, an air-driven propeller mounted on the front end of the body, and means housed within the body and operatively connecting said propeller with said lever whereby to oscillate the lever.

1,471,304. SAFETY PORTABLE SCAFFOLD. JOSEPH FREDERICK YOUNG, Morristown, N. J. Filed July 6, 1922. Serial No. 573,127. 5 Claims. (Cl. 304—29.)



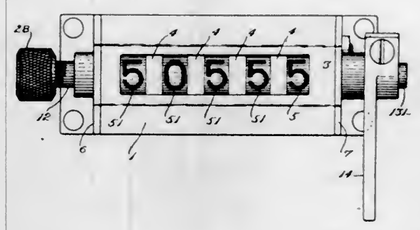
1. A scaffold including side rails, a platform, slides on the respective side rails and carrying said platform, dogs associated with the slides, said dogs engaging or disengaging the side rails by movements of the slides, means to actuate said slides, said means including a lever adjacent each side rail, and a guard rail detachably held by its ends on the respective levers.

1,471,305. FEELER MECHANISM FOR LOOMS. CARL D. BROWN, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed May 22, 1922. Serial No. 562,581. 9 Claims. (Cl. 139—281.)



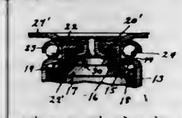
1. In a feeler mechanism for looms, the combination of the lay and shuttle-box mounted for movement toward and from the front of the loom in a vertically curved path, a feeler mounted for movement toward and from the front of the loom in a horizontal path, and a compensating feeler tip mounted on the feeler for movement relative thereto in a vertical plane by the filling as the lay moves frontward in its curved path on a detecting beat to prevent injury to the filling and compensate for the difference in the direction of movement of the feeler and filling.

1,471,306. RESETTING COUNTER. HENRY A. CHASE, Newtonville, Mass., assignor to Irving C. Decatur, Malden, Mass., and Lewis W. Mustard, Jr., Wellesley Hills, Mass. Filed June 6, 1922. Serial No. 566,321. 9 Claims. (Cl. 235—144.)



1. In combination, number wheels, transmission gearing for transmitting movement from one thereof to the next in sequence, and resetting means, the said gearing including axially flexible gears, said number wheels and axially flexible gears rotating in unison, and said gears serving in the actuation of the wheels for counting or registering purposes but slipping axially out of mesh with the driving gears when the number wheels are moved by the resetting means for resetting purposes, so as to permit individual resetting rotation of the wheels.

1,471,307. SWIVEL CASTER. JOHN L. CHESNUTT, Long Beach, Calif. Filed June 9, 1922. Serial No. 567,086. 2 Claims. (Cl. 16—21.)



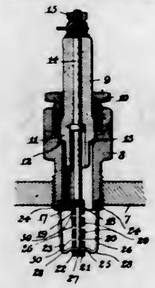
1. In a swivel caster, a wheel yoke and wheel pivoted therein, said yoke being formed with a flat annular top member, a load-bearing member extending within said yoke and formed with an external shoulder, a separately formed, downwardly cupped disk mounted on said shoulder, and bearing balls within said cupped disk resting on said annular top member of the yoke, said load bearing member being formed with a central aperture, said cupped disk being of annular form and having its inner peripheral portion extending within the central aperture of said load bearing member and riveted thereto.

1,471,308. ELECTRIC SWITCH. EDWIN L. CONNELL, Cleveland, Ohio, assignor to The Van Dorn Electric Tool Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 20, 1922. Serial No. 555,786. 4 Claims. (Cl. 200—76.)



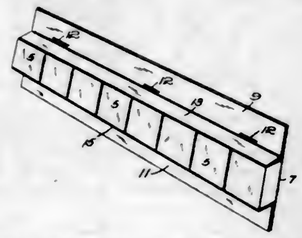
1. In an electric switch, the combination with paired stationary contacts, of a travelling contact member, a contact thereon adapted to engage said paired contacts, and knee-joint actuating mechanism for said member, comprising a pivoted actuating lever connected at a distance beyond its pivot with said member, an overthrow member connected with said lever adjacent to its pivotal mounting, a spring interposed between the respective pivotal mountings, and means for actuating the overthrow member into alternative operative positions for tensioning and suddenly releasing the spring, substantially as set forth.

1,471,309. SPARK PLUG FOR EXPLOSIVE ENGINES. ALBERT E. EHMKE, Silver Creek, N. Y., assignor of one-third to Charles W. Ehmke and one-third to Albert B. Chapman, both of Silver Creek, N. Y. Filed Oct. 14, 1921. Serial No. 507,666. 6 Claims. (Cl. 123—169.)



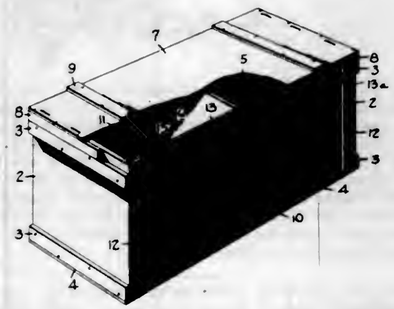
1. A spark plug comprising a shell or casing, an insulation core having a portion thereof held within said shell or casing and extending from one end thereof, an electrode extending axially through said core and projecting from opposite ends thereof, one end of said electrode being adapted to have a current-conducting wire attached thereto, a socket secured to the other end thereof, a slender insulation element having one end held within said socket, a support secured to the inner end of said shell or casing, a socket carried by said support and having the other end of said slender insulation element held therein, and a sparking element on said slender insulation member between said sockets and spaced therefrom to provide a plurality of spark gaps.

1,471,310. DISPLAY STAND. WILLIAM H. KOHL, Melrose, Mass., assignor to Forbes Lithograph Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 15, 1920. Serial No. 430,848. 2 Claims. (Cl. 211—24.)



1. A display stand comprising a strip of material having its margins inturned over and secured flat against the face thereof and providing beyond the location where they are thus secured outwardly bendable article supporting flanges.

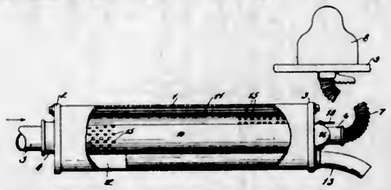
1,471,311. EGG CASE. FRANK S. MCCULLOUGH, San Francisco, Calif. Filed Apr. 20, 1921. Serial No. 462,976. 1 Claim. (Cl. 217—5.)



An egg case comprising rigidly connected end walls, bottom and longitudinal side providing an open side and an open top, the end walls at the open side being provided on their inner faces with vertical grooves, a longitudinal side adapted to be slipped downward in said grooves to close the open side, a top closure and a longitudinal stay strip secured to the end walls adjacent their upper edges and extending across the open side of the case in front of the removable longitudinal side.

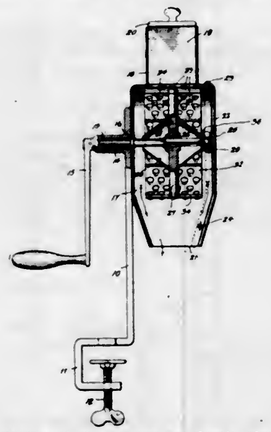
1,471,312. HEATER FOR MOTOR-PROPELLED VEHICLES. CLYDE S. PELTON, Cleveland Heights, Ohio, assignor to The Perfection Heater and Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Mar. 24, 1917, Serial No. 157,243. Divided and this application filed May 8, 1920. Serial No. 379,819. 6 Claims. (Cl. 237—12.3.)

2. In an automobile driven by an internal combustion engine, the combination of a muffler comprising a cylindrical casing and a central tube, said tube communicating directly with the exhaust pipe from said engine and having perforations in its wall adjacent its front end, a second tube surrounding said first tube and eccentrically arranged relative thereto inside said casing and having perforations adjacent its rearward end, a discharge pipe projecting into the space between said casing and said second tube, a pipe connection leading from the rearward



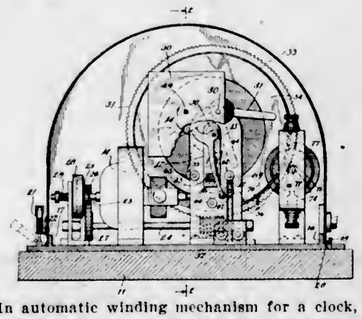
end of said first tube, a heating device to which said last pipe is connected, and means for controlling the flow of exhaust gas through said last pipe.

1,471,313. FOOD CUTTER. CESARE TRUTTA, New York, N. Y., assignor of one-half to Nicola Rinaldi, New York, N. Y. Filed Nov. 11, 1922. Serial No. 600,194. Renewed Sept. 7, 1923. 5 Claims. (Cl. 146—92.)



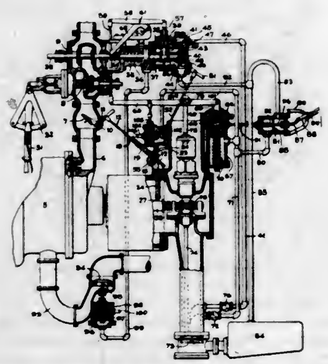
1. In a device of the nature set forth, the combination of a support, a casing fixed thereto, an arbor journaled in the support and extending into the casing, means to feed material to the casing, and reducing means for the material fixed upon the arbor within the casing, said reducing means including a hollow cylindrical cutting member and means secured to the arbor and located within the cutting member serving to direct the reduced material beyond the ends of the cutting member whence it may drop freely from the casing.

1,471,314. AUTOMATIC WINDING MEANS FOR CLOCK MECHANISMS. HOWELL W. SOUDER, Tamaqua, Pa. Filed May 20, 1922. Serial No. 562,450. 8 Claims. (Cl. 58—46.)



1. In automatic winding mechanism for a clock, a motor, a single revolution mechanism for winding the clock, a second winding mechanism, and means causing the first mentioned winding mechanism to function upon failure of the other winding mechanism.

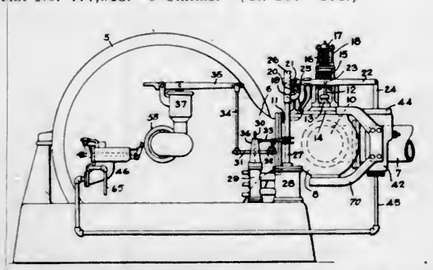
1,471,315. GOVERNING MECHANISM. FRANK S. BENNETT, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 26, 1920. Serial No. 384,423. 7 Claims. (Cl. 137—158.)



1. The combination with a prime mover of a valve for controlling the admission of elastic fluid thereto, a pressure actuated governor for moving said valve, means for delivering fluid to said pressure actuated governor at a pressure proportional to the speed of the prime mover, a by-pass comprising a thin edged orifice, a valve controlling said orifice, and a second by-pass, the discharge area of which is varied in a direction to assist in movements of said pressure actuated governor.

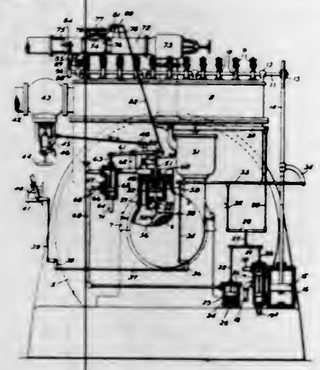
4. In combination, a prime mover, an emergency valve therefor, a control valve in series with the emergency valve, a conduit for admitting low pressure elastic fluid to the prime mover, a valve in said conduit, and means for effecting the closing of said last named valve and said control valve when the emergency valve closes.

1,471,316. VALVE GEAR. WILLIAM P. DREYER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 14, 1921. Serial No. 477,543. 6 Claims. (Cl. 137—158.)



3. The combination with a prime mover, of a valve mechanism controlling the admission of motive fluid thereto, a lever connected directly to the valve mechanism, a movable abutment which presents a stationary fulcrum for the lever, governor mechanism including a fluid-actuated motor for moving the lever about such fulcrum to open and close the valve mechanism, means for supplying fluid pressure to the abutment, and means for relieving the fluid pressure supplied to the abutment to permit the valve mechanism to close independently of said governor mechanism and fluid-actuated motor.

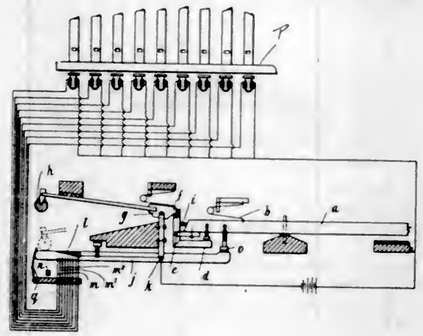
1,471,317. ELASTIC-FLUID TURBINE. WILLIAM L. R. EMMET, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 20, 1921. Serial No. 509,096. 16 Claims. (Cl. 137—158.)



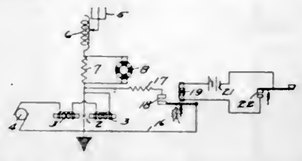
6. The combination with a prime mover, of a valve mechanism controlling the admission of motive fluid thereto, a lever through which the valve mechanism is actuated, a movable abutment which presents a stationary fulcrum for the lever, governor mechanism for moving the lever about such fulcrum to open and close the valve mechanism, means for supplying fluid pressure to said abutment, and means for controlling the fluid pressure supplied to the abutment.

1,471,318. EXPRESSIVE-TOUCH ACTION FOR ORGANS AND THE LIKE INSTRUMENTS. JOHN HAYWOOD COMPTON, London, England. Filed Aug. 17, 1921. Serial No. 493,090. 10 Claims. (Cl. 84—238.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

10. A musical instrument having in combination a key, a pivoted member positioned to be turned about its pivot by the depression of the key, with varying rapidity according to the rapidity with which the key is depressed, a plurality of fixed contacts, a movable contact member positioned to be struck by the pivoted member when the latter is turned about its pivot, and to be moved by the stroke of the pivoted member to an extent varying according to the rapidity of that stroke and make contact with a varying number of the fixed contacts according to the rapidity of the stroke of the pivoted member.



1,471,319. RADIOTELEGRAPH SIGNALING SYSTEM. HARADEN PRATT, San Francisco, HAROLD F. ELLIOTT, Palo Alto, and EUGENE B. MURPHY, Burlingame, Calif., assignors to Augustus Taylor, San Francisco, Calif. Filed Jan. 3, 1921. Serial No. 434,420. 5 Claims. (Cl. 250—19.)



3. A radio telegraph signaling system comprising an arc, an oscillatory circuit connected to the arc, a resistance of such value that when introduced into the circuit the arc is extinguished, and means for introducing the resistance into the circuit and withdrawing it therefrom at an audio frequency rate.

Patents Nos. 1,471,320 to 1,472,032.

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Vol. 315—No. 4. TUESDAY, OCTOBER 23, 1923. Price—$5 per year.

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Labels	1—No.	26,501.	
Reissues	4—No.	15,701 to No.	15,704, inclusive.
Designs	11—No.	63,152 to No.	63,162, inclusive.
Patents	712—No.	1,471,320 to No.	1,472,032, inclusive.
Total	1111		

ADJUDICATED PATENTS.

(D. C. N. J.) Boyce patent, 1,090,776, for motor meter, held valid and infringed. *Boyce* v. *Pyrene Mfg. Co.*, 290 Fed. Rep., 998.

Interference Notices.

U. S. PATENT OFFICE, *Washington, Oct. 4, 1923.*

The Bell Cap Company, their assigns or legal representatives, take notice:

An interference having been declared by this Office between William London, 119 North Main Street, High Point, N. C., for registration of a trade-mark and trade-mark registered September 19, 1922, No. 158,891, to The Bell Cap Company, 726 Market Street, Philadelphia, Pa., and a notice of such declaration sent by registered mail to said The Bell Cap Company at the said address having been returned by the post-office authorities as undeliverable, notice is hereby given that unless The Bell Cap Company, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

W. A. KINNAN,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, Oct. 5, 1923.*

Albert Ruben & Co., their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Albert I. Straus, Main and North Streets, Lima, Ohio, for registration of a trade-mark and trade-mark registered May 14, 1907, No. 62,596, to Albert Ruben & Co., 709 West North Avenue, Chicago, Ill., and a notice of such declaration sent by registered mail to said Albert Ruben & Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Albert Ruben & Co., their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Oct. 5, 1923.*

Overseas Products Corporation, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Everett Lawrence & Company, New Orleans, La., for registration of a trade-mark and trade-mark registered June 19, 1917, No. 117,195, to Overseas Products Corporation, 105–109 Hudson Street, New York, N. Y., and a notice of such declaration sent by registered mail to said Overseas Products Corporation at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Overseas Products Corporation, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

Disclaimers.

1,270,559.—*Sumner Simpson*, Bridgeport, Conn. CLUTCH FACING. Patent dated June 25, 1918. Disclaimer filed October 3, 1923, by the assignee, *The Raybestos Company*.

Hereby disclaim the article defined by said claim 2, except when such article is in the form of a relatively thin disk, or plate, or strip, a side, or relatively wide face, of which receives the wear, and wherein during its use no binding medium additional to that used in its manufacture need be applied for preventing material disintegration thereof.

1,343,717.—*Earl C. Hanson*, Washington, D. C. TELEPHONE APPARATUS FOR THE DEAF. Patent dated June 15, 1920. Disclaimer filed September 24, 1923, by the assignee, *Title Insurance & Trust Company*, the patentee consenting.

Hereby enters this disclaimer to claim 3 of said Letters Patent, which is in the following words, to wit:

"The combination, in a telephonic audiphone, comprising a one-way transmission circuit including sound collecting and reproducing devices, of audio-frequency transforming means, and vacuum tube relay means whose input circuit is connected through said transforming means with said collecting device, and whose output circuit is connected with said reproducing device."

Condition of Applications Under Examination at Close of Business October 12, 1923.

(Total number of applications awaiting action, excluding Trade-Mark Division, 74,870; Trade-Mark Division, 3,346. Oldest new case, Dec. 12, 1922; oldest amended, Dec. 13, 1922. The dates given are 1922 except where * indicates 1923.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	*Jan. 23	*Jan. 9	1,336
128	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	*Feb. 1	Dec. 19	1,405
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	*Apr. 2	*Apr. 4	1,311
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	*Jan. 1	*Mar. 13	1,642
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Dec. 21	Dec. 30	1,550
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilisers; Liquid Coating Compositions; Medicines; Plastic Compositions; Substance Preparation.	Dec. 21	*Mar. 16	1,827
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	*Jan. 23	*Jan. 24	2,772
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*Mar. 3	*May 24	1,799
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	*Jan. 30	*Sept. 1	878
235	10. HUNTER, O. F. (Acting), Motor Vehicles; Land Vehicles—Animal Draft Appliances, Bodies and Tops, Dumping, Wheel Substitutes.	*Jan. 3	*Apr. 6	1,555
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skin, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Apr. 5	*Mar. 29	953
322	12. PIERCE, P. P., Machine Elements	*Jan. 10	*Jan. 29	1,453
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	*Jan. 8	*May 31	1,254
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Dec. 14	*Aug. 1	1,086
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Dec. 18	Dec. 23	2,107
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Dec. 27	Dec. 28	2,640
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Association or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Dec. 20	*May 7	1,603
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	Dec. 14	Dec. 18	2,084
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	*May 24	*June 4	708
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Mar. 10	*Mar. 1	1,581
212	21. THURBER, W. L., Winding and Reeling; Textiles—Braiding, Netting, or Lace Making, Cloth Finishing, Fiber Preparation, Knitting, Spinning, Twisting or Twining, Weaving.	Dec. 14	*July 16	1,040
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	*Feb. 7	*Mar. 5	631
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	Dec. 21	Dec. 21	828
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Dec. 21	*Mar. 3	1,309
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Gas Separation.	*Apr. 2	*Mar. 24	1,098
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Dec. 13	Dec. 15	1,057
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Dec. 22	*Feb. 21	1,458
225	28. BENSON, A. R., Internal-Combustion Engines	*Jan. 29	*Feb. 9	1,388
147	29. MORRIS, B. N., Abrading; Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastening; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	*Jan. 10	*Apr. 9	1,366
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	*Jan. 23	*July 18	1,938
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar, Starch, and Carbohydrates; Concentrating Evaporators.	Dec. 27	Dec. 16	1,693
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	*Jan. 6	Dec. 16	1,381
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	*Jan. 12	*Jan. 10	1,700
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Feb. 16	*Apr. 2	914
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Apr. 27	*Apr. 27	994
265	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Mar. 28	*Mar. 12	2,122
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	*Jan. 2	*Jan. 8	1,915
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	*Jan. 2	Dec. 20	1,973
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Dec. 13	Dec. 16	1,358
269	40. OBERLIN, J. J., Baggage; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Dec. 26	*May 4	2,109
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	*Jan. 20	*Apr. 12	1,041
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Dec. 27	*Jan. 17	1,778
382	43. HOPKINS, F. M., Baths and Closets; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	*Jan. 23	Dec. 21	1,905
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	*Jan. 10	*Apr. 28	1,236
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Jan. 31	*Feb. 16	1,668
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	*Feb. 8	*Mar. 6	1,490
364	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time-Controlling Mechanism.	*Jan. 11	*Apr. 21	1,207
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Dec. 12	Dec. 13	2,426
383	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	*Jan. 25	*Feb. 17	614
102	DESIGNS: C. O. MARKHAM (Acting)	*May 1	*May 17	1,689
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. / Trade-Marks	*July 2	*Aug. 21	3,152
	Labels and Prints	*Sept. 14	*Sept. 25	194

DECISIONS IN PATENT AND TRADE-MARK CASES.

Commissioner's Decisions.

EX PARTE TUFFORD.

Decided May 28, 1923.

PATENTABILITY—CLAIMS FOR SUBSTANTIALLY SAME SUBJECT MATTER AS APPLICANT'S REISSUE PATENT.

The first group of T.'s claims held to be for subject matter which might have been claimed in his reissue patent, and the claims of the second group held not patentably different from what is disclosed and claimed in the reissue patent.

APPEAL from Examiners in Chief.

RESILIENT HEEL LIFTS.

Messrs. R. S. & A. B. Lacey and *Mr. F. O. Richey* for the applicant.

FENNING, *Assistant Commissioner:*

Applicant appeals from the decision of the Examiners in Chief affirming the action of the Primary Examiner finally rejecting the claims in this application, 27 in number.

The application discloses a concavo-convex rubber heel lift. Applicant's Reissue Patent No. 14,049 discloses a lift of the same type as that shown herein, having four openings for the attaching nails centrally arranged therein. In the present application there are shown six of these openings, four arranged so as to outline substantially a rectangle in approximately the center of the lift and two other openings within this rectangle.

The reissue patent has been extensively involved in litigation, and several decisions of the courts with relation thereto have been published. The article shown therein and its advantages and its differences over the prior art are fully set out in the decision in *Tee Pee Rubber Co., Inc.*, v. *I. T. S. Rubber Co.* (268 Fed. Rep., 250).

Applicant in his brief divides the claims into two groups—namely, 1 to 6, inclusive, and 7 to 27, inclusive. The first group does not include the two centrally-arranged nail openings. In his brief applicant offers to reduce these claims to one of the first group and five of the second—namely, claim 4 and claims 8, 13, 18, 24, and 26. Claims 4 and 8 read as follows:

4. In combination, a boot or shoe heel, a heel lift made substantially entirely of rubber or rubber composition, the attaching face of the lift being concave and adapted when flattened out to cling to the margin of the shoe heel when attached thereto and attempting to regain its normal form, said lift provided with a convex tread face parallel or substantially parallel to the attaching face, said lift being provided with a plurality of openings for attaching means extending from the tread face crosswise in said lift and arranged each remote from the margin of the lift and substantially the same distance from the side edges or margins of the heels, said lift having the general outline of a shoe heel, supporting means for the heads of the attaching means about each of said openings and nails or screws having their heads resting on said supporting means and attaching the central part of the lift to the shoe heel.

8. As an article of manufacture, a heel lift made substantially entirely of rubber or rubber composition, the attaching face of the lift being concave and adapted when flattened out to cling to the margin of the shoe heel when attached thereto and attempting to regain its normal form, said lift provided with a convex tread face parallel or substantially parallel to the attaching face, said lift being provided with a plurality of openings for attaching means extending crosswise in said lift and arranged each substantially the same distance from the side edges or margins of the heels and with one or more centrally arranged nail receiving openings within the first-named plurality of openings, said lift having the general outline of a shoe heel, and supporting means for the heads of the attaching means about each of said openings.

In the suit above referred to it was held that the claims of the reissue patent are limited to a heel lift of a saucer shape as distinguished from a scoop shape, and it is contended by the applicant that the present claims are not for the same invention as that covered by the claims of his patent, since they are not limited to the saucer-shape heel and since the claims of the patent do not specifically include the arrangement of the nail-receiving openings.

The reissue patent was held limited to the saucer-shape form not merely because of the proceedings in the Patent Office and the language of the claims, but because in the opinion of the court it was necessary to so limit them in order to hold them valid over the Nerger patent, No. 661,129. In the Tee Pee case the court, in discussing the construction to be given to claim 9, the language of which, it was argued, did not restrict it to a saucer-shape heel, since it did not include the limitation that the heel was concavo-convex on every line of cross-section, said:

> Tufford aimed at a lift of such material, and with a surface so shaped that the flattening of the center would produce an automatic intensive sealing at all the edges, including the breast. Merely omitting the plate from Nerger would not get this result, because Nerger's shape was not right. Nerger's breast edge, without the plate, would not seal, except as nails might be driven in far enough and near enough to the edge, so that they would produce the sealing pressure, even if the lift were flat. The omitting of Nerger's plate by itself will not get the desired result; the reshaping of Nerger's upper surface is also necessary; both must co-operate; and hence the construction which we give to claim 9 is essential to its validity.

The first group of claims here reads clearly upon applicant's prior patent. It is true that Figs. 1 and 4 thereof are perspective views, and it cannot be accurately determined from them that the openings are located as specified in these claims; but the specification states (page 2, line 60 et seq.):

> It will further be observed by reference to the figures of the drawings that the washers are spaced substantially equidistant from the margin of the lift and that they are located as near the center of the lift as is practical considering a peculiar construction of the lift which will presently be described.

This arrangement of the nail holes for the proper attaching of the heel lift to the heel of the shoe, as set out in the first group of claims, is not such a different invention from that claimed in the patent that it could not have been claimed therein, and therefore if applicant was entitled to these claims they could have been obtained only in a reissue of that patent. (See rule 92.)

But great stress is laid upon the claims of the second group, it being argued that the arrangement in which two central nail-receiving openings are provided is not shown in the reissue pat-

ent, and that unless the nails are regularly arranged the lift will gradually work loose, due to the tendency of the lift to assume its original shape. A number of affidavits were filed setting up that in an arrangement such as shown in the blue prints attached to page 6 of the brief before the Examiners in Chief the nails would gradually loosen, especially where the heel was made of an inferior grade of leather or of pasteboard.

There is nothing, however, in the affidavits to show that any different result would be obtained with the arrangement of the nails shown in this application from that shown in the reissue patent. The affidavits all compare the arrangement shown in this application with a case in which the nails are irregularly arranged. But there is no "irregular" arrangement in the heel of the reissue patent and, as stated above, there is no comparison between such an arrangement as that and the arrangement of the present application. Of course six nails will hold the lift to the heel more securely than four, and if four nails were found not to hold the lift sufficiently firmly upon the heel or if it were found that the portion of the lift between the four nails tended to bulge upwardly there certainly would be no invention in providing openings for two more nails.

In his brief applicant states that Judge Denison, in an unpublished decision, said:

> Tufford's theory teaches that his edges would seal; but he does not depend on Nerger's two nails, he puts in five more, following the shape of the edge and approximately midway between the center and the edge.

And he alleges that the claims of this application are directed—

> to that very structure which Judge Denison says the inventor depends upon to solve the problem whose solution is already said by the courts to constitute invention of a high order.

But the Nerger patent shows two nail-receiving openings, and if Tufford uses five more he uses seven in all, whereas this application shows only six, and some of the appealed claims do not include all of these openings.

There must necessarily be provided means for attaching the lift to the shoe heel, and both in the original patent and in the reissue thereof there are disclosed the four centrally and symmetrically arranged nail-receiving openings. Claim 6 of the reissue patent covers broadly the central arrangement of these openings, since this claim specifies—

> said lift being provided with nail receiving openings located near the center thereof.

When the reissue patent expires, anyone will be entitled to make the article shown and claimed therein or any noninventive variation thereof. To grant to applicant the claims of the second group, all of which include one or both of the two intermediate nail-receiving openings, would, in effect, extend the monopoly granted by the reissue patent, and this is especially true since some of these claims are not limited to the saucer-shaped lift.

The above holding is made on the assumption that the arrangement of the nail-receiving openings shown in this application was devised by the applicant before his original patent issued. Obviously if it was not that patent is prior art to the applicant, as it would be to any other inventor who devised this arrangement subsequently to the issuance of the patent.

In his supplemental oath applicant alleges that the subject-matter of the amendment of June 3, 1920—which includes the appealed claims—was invented before he filed his present application and—

> was not known or used before my invention, was not patented or described in a printed publication in any country more than two years before my application.

This is the usual form of a supplemental oath and it is not clear therefrom that applicant intended to allege that he had devised the arrangement of the six nail-receiving openings shown in the present application before the issuance of the original patent, or even before the grant of the reissue.

To recapitulate, it must be held that the claims of the first group, including claim 4, read clearly upon the original patent and the reissue thereof and are for subject matter which might have been claimed therein, and that the claims of the second group, which includes claims 8, 13, 18, 24, and 26, are not patentably different from what is disclosed and claimed in the reissue patent.

The decision of the Examiners in Chief is affirmed.

McDANIEL AND DE WALTOFF *v.* STOEHRER AND STOEHRER.

Decided September 10, 1923.

1. INTERFERENCE—PRIORITY—STATUTORY BAR.

It is well settled that whether a bar exists to the grant of a patent to one of the parties to an interference does not relate to priority of invention. (*Slingluff* v. *Sweet and Spinasse*, 230 O. G., 650; 45 App. D. C., 302.)

2. SAME—SAME—SAME.

Where McDaniel and De Waltoff presented no testimony to establish that they made the invention prior to the senior party's filing date, and on appeal from the decision of the Examiner of Interferences awarding priority to the senior party raised only the question of a statutory bar to the issuance of a patent to that party, the appeal was properly dismissed.

ON PETITION.

AMUSEMENT APPARATUS.

Mr. E. Hume Talbert for McDaniel and De Waltoff.

Mr. David P. Wolhaupter for Stoehrer and Stoehrer.

ROBERTSON, *Commissioner:*

McDaniel and De Waltoff petition for "relief from the action of the Examiners in Chief dismissing their appeal filed August 7, 1923."

The record shows that McDaniel and De Waltoff moved to dissolve the interference on the ground that to grant a patent on the invention in issue to Stoehrer and Stoehrer would be double patenting in view of a prior patent to them. They also moved to dissolve on the ground that the issue was unpatentable in view of other patents.

The motion to dissolve was denied by the Law Examiner, and times were set by the Examiner of Interferences for taking testimony. No testimony having been taken within the time set, the Examiner of Interferences awarded priority to the senior party, Stoehrer and Stoehrer. He held in his decision that the contention as to double patenting related to the question of patentability and not of priority of invention. Appeal was taken from that decision to the Examiners in Chief, and in the reasons for appeal the only ground assigned related to this question of double patenting.

The Examiners in Chief granted a motion filed by Stoehrer and Stoehrer to dismiss the appeal, holding that the question of patentability urged by the appellant did not relate to priority, and therefore the appeal raised no appealable question.

[1] It is well settled that whether a bar exists to the grant of a patent to one of the parties to an interference does not relate to priority of invention. (*Slingluff* v. *Sweet and Spinasse*, 230 O. G., 659; 45 App. D. C., 302.)

In the case cited, the appeal of Sweet, which raised only the question of the patentability of the issue in view of a prior patent to Spinasse, was dismissed by the court of appeals.

[2] As McDaniel and De Waltoff presented no testimony to establish that they made the invention prior to the senior party's filing date, and on appeal from the decision of the Examiner of Interferences awarding priority to the senior party raised only the question of a statutory bar to the issuance of a patent to that party, the appeal was properly dismissed.

The petition is denied.

EX PARTE CAMPBELL.

Decided September 26, 1923.

1. PRACTICE—REJECTION—APPLICATION OF REFERENCES.

Wherein response to a rejection the applicant pointed out six features that he alleged he was unable to find in any of the references and requested that they be applied to the claims and the Examiner then finally rejected the claims without any explanation, *Held* that the Examiner's action can not be regarded as a proper response to the applicant's request even though the references are easily understood.

2. SAME—SAME—SAME.

Held that an applicant after paying his filing fee is entitled to complete information before he has to pay an appeal fee.

3. SAME—SAME—EXPLANATION PRIOR TO FINAL REJECTION.

Held that before a case is closed the applicant is entitled to as full and clear an explanation as the Examiner would consider necessary if he were called upon to answer an appeal or to otherwise defend his final rejection.

ON PETITION.

CAN OPENER.

Mr. Emil F. Lange for the applicant.

ROBERTSON, *Commissioner:*

Applicant petitions that the final rejection in this case be set aside as being premature and that the Examiner—

> apply the references to the claims, with special reference to the six features enumerated—

in a certain amendment that had been filed in the case.

In the first action in the case the Examiner stated:

> The claims are rejected on each of the following patents,

citing three patents.

In the second action the Examiner stated:

> The claims stand rejected on the references and for the reasons of record,

and cited two additional references. No application of the references, however, had been made on the record.

In response to this action the applicant pointed out six features that he alleged he was unable to find in any of the references, and he respectfully requested that the references be applied to the claims.

Instead of complying with this reasonable request, which was well settled as proper practice 25 years ago by Commissioner Duell in *ex parte Mergenthaler* (1898, C. D., 229; 85 O. G., 775), the Examiner finally rejected the claims without any explanation. This action can not be regarded as a proper response to applicant's request, even though the references are easily understood. Patents which may be quite obvious to an Examiner who has been working in the same class of inventions for several years may be quite the opposite to one who is not saturated with the prior art. In any event, after applicant has pointed out six features which he considers patentable differences ordinary courtesy should require the Examiner to comply with the applicant's request, particularly since the applicant's filing fee was paid for just such service; but aside from courtesy the rules and decisions of the Office require compliance with such a request. Rule 65 provides that if, upon reexamination, the claims should again be rejected—

> the reasons therefor will be fully and precisely stated.

It goes without saying that if applicant had filed an appeal the Examiner in his "statement" would have furnished the Board of Examiners in Chief with *all* the reasons for affirming him, with the hope that his decision would not be reversed. In fact, if the Examiner had given the applicant, in response to his request, the same reasons he now gives in his answer to the petition the present controversy would not have arisen. Furthermore, the applicant, after paying his filing fee, is entitled to complete information *before* and not *after* he has to pay an appeal fee of $10. The decisions clearly call for this and hold that before a case is closed the applicant, particularly if he requests it, is entitled to as full and clear an explanation as the Examiner would consider necessary if he were called upon to answer an appeal or to otherwise defend his final rejection. In this connection see *ex parte Mergenthaler*, supra, where, after referring to certain decisions, Commissioner Duell held that—

> • • • these authorities require an Examiner before closing a case to explain the references and their pertinency as clearly and fully as would be done in the Examiner's answer to an appeal should appeal be taken.

The final rejection is set aside, so that the Examiner may fulfill his duty as called for by rule 65 and the decisions relating thereto.

The petition is granted.

Court of Appeals of the District of Columbia.

IN RE SCHEIB.

No. 1,567. Decided June 4, 1923.

PATENTABILITY—APPLICATION OF REFERENCES.

An apparatus for sharpening rock drills by placing them while hot between dies which are operated by a compressed-air motor, the lower die being mounted on a chamber which supports the appliance, the motor exhaust entering the chamber, from which it passes over the dies to dislodge the scale, is not patentable where a prior patent discloses a supporting chamber from which compressed air is directed to blow cinders from the anvil or dies of a forging apparatus, another shows the exhaust from a fluid motor directed so as to remove scale from a plunger operated by the motor, and another discloses a drill sharpener like the one applied for, except that it has no chamber and delivers the exhaust directly to the dies.

Mr. B. G. Foster for Scheib.

Mr. T. A. Hostetler for the Commissioner of Patents.

Before SMYTH, Chief Justice, ROBB, Associate Justice, and SMITH, Judge of the United States Court of Customs Appeals.

SMITH, *J.*:

The sharpening of rock-drill bits by pressure is accomplished by heating and placing them between dies which are forced together by applying compressed air to a piston which moves the upper die vertically downward against the lower die. That forging operation results in the formation of a scale which lodges in the angles and corners of the faces of the dies and must be removed in order to permit of the proper sharpening of another drill bit. The apparatus for which the appellant applied for a patent accomplishes that result by conducting the exhaust air from the motor into a hollow chamber which supports the appliance from which chamber the air more or less compressed, finds egress upward through ports and over the face of the dies and thereby dislodges the scale.

All of the claims, seven in number, were rejected by the Primary Examiner which action was affirmed on appeal by the Examiners in Chief and by the Assistant Commissioner. From the decision of the Assistant Commissioner this appeal was taken and involves the following claims in the application.

3. In a drill sharpener, the combination with a base or support having a work-engaging face and an exhaust receiving chamber below the same, of a fluid-operated motor mounted on the base or support, a member operated by the motor and having a work-engaging face movable into and out of coaction with the work-engaging face on the base or support, and means for directing the exhaust from the motor into the chamber, said base or support having ports leading from the chamber upwardly to deliver the exhaust between the faces to clean the scale therefrom.

4. In a drill sharpener, the combination with coacting relatively movable work-engaging members and a support therefor having a chamber, of a fluid-operated motor on the support for effecting the relative movement of the members, and means for directing the exhaust from the motor to the chamber, said support having a port from the chamber to one of the members.

5. In a drill sharpener, the combination with a base or support having a stationary work jaw thereon, a chamber below the work jaw and a blow port extending upwardly from the chamber below the work jaw and a blow port extending upwardly from the chamber to deliver a cleaning blast to the jaw, of a work jaw above the stationary jaw and movable into and out of coaction therewith, a fluid operated motor on the base or support above the movable jaw and connected thereto for operating it, and means for delivering the exhaust from the motor to the chamber.

7. In a drill sharpener the combination with coacting work holding jaws, relatively movable toward and from each other, of dies carried thereby, depressions in the jaws on opposite sides of the dies, a motor for relatively moving the jaws, and means for delivering the exhaust from the motor into said depressions.

The patent issued to Vogel in August, 1870, discloses the hollow supporting chamber, a feature of applicant's apparatus, from which chamber compressed air is directed to blow cinders or other undesirable matter from the anvil or dies of a forging appliance.

The patent to Sears issued March, 1907, shows a means of conducting and directing the exhaust from a fluid-operating motor in such a way as to remove scale or other foreign bodies from the plunger of fluid-operating machines, and so prevent damage to the mechanism by cutting or abrasion.

The patent issued to Retallack in June, 1903, discloses a drill sharpener with a fixed and a movable die. The movable die is operated by the motor and the exhaust from the motor is conducted by a pipe to the dies for the removal of scales.

The only material difference between Vogel's patent and that for which application is made, is, that the supporting hollow chamber of Vogel's patent utilizes compressed air at its original pressure, whereas the supporting hollow chamber of the application utilizes compressed air after it has done the work of moving the piston and is under diminished pressure due to expansion in the hollow base.

The difference between the Sears patent and that applied for, is, that the exhaust of the motor is discharged into a small cavity, immediately under the plunger and therefrom outwardly around the plunger so as to remove scale or other foreign material.

The patent to Retallack has no chamber and delivers the exhaust to the dies directly by means of a pipe.

We think that claims 3, 4 and 5 are met by the references to the patents of Vogel, Sears and Retallack. Claim 7 covering the depression in the jaws on opposite sides of the dies and a means for delivering the exhaust of the motor into such depression, is a variation of construction which accomplishes a result which is not new and does not materially or vitally differ from that of the references.

The decision appealed from is affirmed.

U. S. Circuit Court of Appeals—Seventh Circuit.

ROCKFORD PEERLESS FURNITURE CO. *v.* ABRAMSON.

Decided September 13, 1922.

[284 Fed. Rep., 356.]

1. PATENTS—MAKING PARTS SEPARABLE NOT INVENTION.

The mere fact that base and pedestal of an electric floor lamp were separable, to aid in shipping, would not show invention.

2. SAME—1,253,657, FOR FLOOR LAMP, VALID AND INFRINGED.

The Abramson patent, No. 1,253,765, for base and pedestal of electric floor lamp, *Held* valid and infringed by one structure of defendant and not infringed by another.

APPEAL from the District Court of the United States for the Eastern Division of the Northern District of Illinois.

Suit in equity by Matilda J. Abramson, as administratrix of the estate of Alfred C. Abramson, against the Rockford Peerless Furniture Company. Decree for complainant, and defendant appeals. Reversed in part.

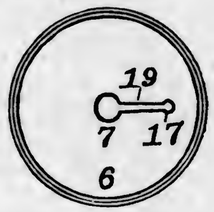
Mr. Lincoln B. Smith for the appellant.

Mr. Otto R. Barnett for the appellee.

Before BAKER, ALSCHULER, and EVANS, Circuit Judges.

ALSCHULER, *Cir. J.*:

The appeal is from a decree finding valid and infringed United States Patent No. 1,253,765, to Abramson, January 15, 1918. The stated object of the invention is to provide electric floor lamps with base and pedestal separable to facilitate knockdown shipment; the pedestal being fully equipped at the factory with electric wiring and plug, so that the dealer may readily assemble the lamp for immediate use without the necessity of attaching the plug to the wire after base and pedestal are joined together. Figure 4 of the patent drawing is as follows:



The figure represents the base and the pedestal; 7 is a hole through the center, through which, either the pedestal itself or a hollow rod extending through the pedestal, projects, for holding the pedestal to the base either by screwing the pedestal into threads of the hole, or by a nut at the lower end of the rod, whereby pedestal and base are drawn together; 17 shows another hole in the base just outside of the edge of the pedestal as it rests upon the base, and 19 is a slot connecting these holes. The wire is threaded through the pedestal, connected with the lamp at the top of the pedestal, and with the plug at the other end of wire for attachment—all complete for use. The parts are assembled by first looping the wire down through the slot and holes and fastening the base and pedestal together, whereby the wire comes through hole 17 in the base just outside of the edge of the pedestal as it rests on the base.

The separability of base and pedestal is a great advantage in shipping the lamps. The base being usually much broader than the pedestal, if the lamp is assembled at the factory, considerable waste space results in packing; but, with the parts separated, bases can be compactly crated in one package, and pedestals in another, materially reducing the bulk and effecting a saving in freight charges.

[1] But separability alone would not be patentable. Its possibility and advantages are perfectly obvious. But invention may reside in particular means to such an end. If the hole at 7 were large enough to pass the plug through it to the bottom of the base and the wiring with plug attached then passed out under the base, it would scarcely be contended that this would involve invention; and if this were all that Abramson disclosed, he would not have been entitled to a patent. Patent 1,039,119, to Dalzell & Scroggins, 1912, shows a lamp with separable base and electric wiring extending down through the base and out between the legs or openings of the base. Patent 1,081,498, to Gudeman, 1913, shows something quite similar, the wiring passing out through a groove in the base, although in that instance it appears to emerge through a hole in the outer shell of base and pedestal. But if it were desirable to have the plug fastened to the wire before the bottom is put in place, it would be so simple to have a suitable slot opening therefor in the shell that this could not involve invention.

In the patent in issue, however, the two holes in the base with connecting slot, while simple, is not so obvious an arrangement that it can be said invention was not involved in devising it. The holes need not be large enough to admit a plug passing through them. If the hollow rod construction is adopted, hole 7 need only be of size sufficient for the rod to pass through, and hole 17 just large enough for the wire. The Abramson device is ingenious and apparently useful, and we find the patent valid for the improvement he has shown, notwithstanding the somewhat broad claims allowed him.

[2] Appellant's device No. 1 concededly infringes, and the question of infringement turns on its device No. 2. This shows a base and pedestal, separable and capable of being separately crated and shipped; but it has not the holes with connecting slot through the base, which seems to be the distinctive feature of the patent. With device No. 2 there can be no looping down and up of the electric wire as in the patent; but the one hole through the base, which is in the center, must be large enough so that the attached plug may be passed through it. It then passes to the outside by means of a groove cut in the bottom of the base from the center hole to the edge; the groove being small enough and deep enough so that the wiring is frictionally held in and by the base from contact with the floor. It is argued that one of the advantages of the patent is that the cord does not come in contact with the floor and is therefore protected from wearing out. But to hold the cord from the floor does not of itself involve invention. Dalzell & Scroggins might by some simple device have held their cord from the surface on which their lamp rested, and this would not have involved invention. Gudeman's cord does not touch the floor, and Figure 2 of the British Byng patent, 5,418 of 1911, shows the wire

coming out of the pedestal just above its attachment to the base, and this does not come in contact with floor. But, whether touching the floor or not, appellant's device No. 2 is entirely wanting in the distinctive feature of the slotted opening through the base, wherein resides the novelty of Abramson's invention. We are of opinion that device No. 2 does not infringe.

Respecting appellant's contention that it is in any event entitled to a shop right in the patent, we have carefully examined the evidence on that question, and conclude that we would not be warranted in disturbing the finding of the district court, adversely to such right.

The decree of the district court is affirmed, in so far as it finds the patent valid and infringed by appellant's device No. 1, and reversed as to the finding that appellant's device No. 2 infringes.

Each party shall pay one-half the costs of this court.

U. S. Circuit Court of Appeals—Second Circuit.

WESTINGHOUSE ELECTRIC & MFG. CO. *v.* METROPOLITAN ELECTRIC MFG. CO.

Decided May 7, 1923.

[290 Fed. Rep. 661.]

1. PATENTS—920,490 and 1,137,413, HELD INVALID.

The McWilliams patents, No. 920,490, claims 1, 5, 6, 9, and 10, for panel board for electrical power distribution, and No. 1,137,413, claims 1, 6, and 9, for a metering panel board, *Held* invalid.

2. SAME—RECITALS CONCLUSIVE EVIDENCE OF TAKING NECESSARY OR STATUTORY OATHS.

In the absence of fraud, recitals in Letters Patent are conclusive evidence of a taking of the necessary or statutory oaths.

3. SAME—WHAT ARE "DISCLOSURES" AND "CLAIMS."

What any patentee has invented is theoretically what he discloses, and the "disclosure" is the specification while a "claim" is a definition of that which has been disclosed in the specification, the disclosure telling how to do that of which the claimant attempts definition.

4. SAME—CLAIMS MUST BE SUPPORTED BY ORIGINAL SPECIFICATION.

A claim not supported by the specification is a bad claim; a disclosure which tells how to do a thing not claimed is a misfortune for the patentee; but neither has anything to do with section 4892, Revised Statutes. The statute requires that one shall swear to his invention, and all of it. If he swears to only a part and afterwards puts in the rest, he is attempting to improve an affidavit after execution by inserting additional allegations of fact.

5. SAME—ADDITIONAL ALLEGATIONS OF FACT IN DISCLOSURE NEED SUPPLEMENTAL OATH.

If a new claim need for its justification or validity an additional or new disclosure, such additional allegations of fact need a supplemental oath, not because they are to be used for an amended or new claim, but because they tell some fact of invention not told before; but a claim fairly derivable from a sworn disclosure is good, whether originally presented or introduced by amendment.

APPEAL from the District Court of the United States for the Eastern District of New York.

Suit by the Westinghouse Electric & Manufacturing Company against the Metropolitan Electric Manufacturing Company. Decree for defendant, and plaintiff appeals. Affirmed.

Suit is upon Patent 920,490 (claims 1, 5, 6, 9, and 10), for "panel board for electrical power distribution," and also No. 1,137,413 (claims 1, 6, and 9), for a "metering panel board." For reasons considered in our opinion, the trial court dismissed the bill as to both patents, and plaintiff appealed.

Mr. Drury W. Cooper, Mr. Thomas J. Byrne, and *Mr. Victor S. Beam* for the appellant.

Mr. C. P. Goepel for the appellee.

Before HOUGH, MANTON, and MAYER, Circuit Judges.

HOUGH, *Cir. J.:*

The earlier of the patents at bar was sustained in *Beachey v. McWilliams* (224 Fed., 717; 140 C. C. A., 257), and this litigation has been before us on application for injunction pendente lite as *Cutter v. Metropolitan, Etc., Co.* (C. C. A., 275 Fed., 158). There were then four patents counted on; two have been dropped. The nature of the patented device of No. 920,490 is fully set out in both the decisions above cited, and the claims in suit may be found at large in the Beachey case.

Considerations and discussion of the patent at bar begin as usual with discovery of what the devices are really for, and of what about them required original thought. Mere clever words must be stripped away. The phrase "metering board" is such arrangement of words. The devices have nothing to do with meters per se; the meters shown are functioning just as usual; the inventions relate wholly to the diversion or direction of current, so that it will pass through some particular meter of usual construction to be measured in the usual manner.

A diagrammatic showing of the device of the older patent is found in 224 Fed., 718; 140 C. C. A., 258, and is of itself sufficient to prove that what the inventor desired was to facilitate the interchanging of circuits, so that any "consumption circuit" (i. e., any circuit with a load thereon) might be connected with any meter. It further proves that the accomplishment of this desire is by an arrangement of vertical and horizontal conductors, which may be "pegged" into connection at any intersection, thus putting any meter and any load on the same electric circuit, with the meter (so to speak) "at the gate" thereof. It is this capacity for making circuits by connecting these conductor bars at the proper intersections which is the invention, and the embodiment of that thought is properly a "panel board."

[1] In our opinion this inventive thought was fully and completely embodied in the so-called "Essex board," a panel put into the Essex Hotel in New York city in 1901. The fact of construction at that date is, we think, admitted; if not, it is fully proved, and the proof in our judgment shows a complete anticipation. This defense was not presented in the Beachey case.

It is sought to differ plaintiff's board from the Essex construction by the staggered relation of the consumption bars. Of this it is enough to say that we do not think there is any substance in the attempted differentiation, or, to put it differently, we perceive nothing patentable over Essex in McWilliams's staggered arrangement.

As for Patent 1,137,413, we agree with the lower court that no invention is exhibited. The device shows the same intersecting conductors as in the first patent in suit, and in many other known and older panel boards; but the conductors are grouped according to intended polarity; i. e., the positive "bus bars" occupy one-half of the board (as diagrammatically displayed), and the negative the other. The staggered relation is abandoned. This grouping is thought to make the board more "foolproof." It may be so, but to us the convenience of arrangement is plainly within the capacity of any electrical mechanic.

We have now sufficiently shown our accord with such findings of fact as were made below, and have disposed of this case. It remains, however, to comment upon what we think an erroneous inference drawn by the lower court and others from the language used on the previous appeal herein (275 Fed., 158), and from somewhat similar language in *Waterbury, Etc., Co. v. Prentice* (C. C. A., 286 Fed., 358, 361.)

On the former appeal it appeared as probable that only by an amendment of the specification introduced long after filing on oath, as required by Revised Statutes, section 4892 (Comp. St., sec. 9436), did McWilliams (or his solicitor) disclose those facts or particulars which supported (if anything did) some of the claims in suit, and such amendment was not accompanied by supplemental oath. Our only holding was that the question whether the suggested history of events did or did not show that McWilliams made oath to a "different subject matter" from that finally disclosed was something that should be passed on at final hearing.

To this holding no exception can be or has been taken; but from some language used arguendo the inference was drawn by the learned court below that as to the later patent here in suit—the claims having been introduced by amendment, and there being "no supplemental oath to these claims" (Patent Office rule 48)—the patent was for that reason invalid. While we think no such doctrine properly derivable from our decision, or the cases cited therein, we shall now state our view on the point. It is, of course, true that the force of rule 48 must be obtained from some statute; but we fail to see that it does more than explain and enforce the controlling act of Congress. (R. S., sec. 4892.)

By that section every applicant shall make oath that he believes himself to be the inventor of that for which he "solicits a patent"; i. e., of the invention which he discloses. Therefore, if in point of fact an amendment be introduced after statutory oath made which discloses anything not theretofore so disclosed, there is obviously no oath to support the new disclosure, and that is in the teeth of the statute. The rule no more than provides a method of complying with both the spirit and the letter of Revised Statutes, section 4892, and the form (No. 22) of supplemental oath contained in the current (1922) edition of the Patent Office rules, makes this very clear, for the applicant and affiant is required to swear that his amendatory matter was "invented before he filed his original application," etc.

[2] It was held in *Seymour v. Osborne* (11 Wall., 516; 20 L. Ed., 33) that, in the absence of fraud, recitals in Letters Patent are conclusive evidence of the taking of the necessary or statutory oaths. Examination of the cases (all cited in Walker [5th ed.], sec. 122) will show that this rule has always been applied to matters of irregularity, suggested as having occurred in the office. But the broad words used in the Seymour case can not be used to nullify what may be called the rule of *Steward v. American Lava Co.* (215 U. S., 161; 30 Sup. Ct., 46; 54 L. Ed., 139), viz. (as put by the reporter):

A patent can not be sustained when the theory and method are introduced for the first time in unverified amended specifications.

The facts (215 U. S., 168; 30 Sup Ct., 50; 54 L. Ed., 139) are instructive; it being found that the patentee's attorney introduced "not merely the theory, but the mode of applying it," into the specification by an unverified amendment. Thus the court found that the original specification did not disclose the invention that was specified in the unsworn amendment. Therefore, said the court—

the amendment required on oath that [the patentee] might have found it difficult to take, and for want of it the patent is void.

This subject has been considered in cases many of which are referred to in our previous decision (275 Fed., at page 163) and others collected by Sanborn, J., in *Kiefer, Etc., Co. v. Unionwerke* (D. C., 218 Fed., 847, at page 856). The rule as we accept it is summarily set forth in *Michigan, Etc., Co. v. Consolidated Co.* (67 Fed., 121, 125; 14 C. C. A., 232, 236) by holding that an—

applicant is required to make oath that he believes himself to be the original inventor of the improvement for which he solicits a patent. Cody [the patentee] made such oath on making his original application, but did not make oath in respect to the matter brought in by the amendment. No doubt it is competent to amend the specifications while the application is pending, so long as it is done within the scope of the original application; but it is not competent under color of this privilege to introduce new matter.

[3] What any patentee has invented is theoretically what he discloses and the disclosure is the specification. A claim is a definition of that which has been described in the specification. A disclosure tells how to do that of which the claim attempts definition. Theoretically, the celebrated "man skilled in the art" knows how to do what the inventor did when he has perused the disclosure. Whether one infringes a patent primarily depends, to be sure, upon consideration of the claims; but no man would know how to practice

the invention by reading the claims, any more than a student would learn the proper demonstration of a theorem by reading the theorem itself.

[4, 5] A claim not supported by the specification is a bad claim, for reasons that have nothing to do with Revised Statutes, section 4892. A disclosure which tells how to do a thing not claimed is a misfortune for the patentee; but that also has nothing to do with section 4892. That statute requires that one shall swear to his invention, and all of it; if he only swears to a part, and his attorney puts in the rest, it is exactly like any other yielding to the temptation of improving an affidavit after execution by inserting additional allegations of fact. A claim is not a disclosure; but every claim must be justified by the disclosure. If, therefore, a new claim needs for its justification or validity an additional or new disclosure, such additional allegations of fact assuredly need a supplemental oath, not because they are to be used for an amended or new claim, but because they tell some fact of invention not told before.

Changes of language, not changing the substantial meaning as it stood before amendment, and even changes of meaning narrowing the scope of invention described, do not infringe the statute. Whether any given new or amendatory matter does or does not enlarge or add to the disclosure as it stood before amendment is a question of fact—often a nice one. Such a question has been raised over the file-wrapper contents of 920,490. It does not seem to us a very serious question, and the prior use now established renders it immaterial, and discussion of unnecessary facts is never advisable.

Result is that a claim fairly derivable from a sworn disclosure is good, whether originally presented or introduced by amendment; and such claim needs no supplemental oath.

Decree affirmed, with costs.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

842,319, G. A. Krentler, Last; 969,244, R. Carl, same, suit filed Sept. 12, 1923, D. C., D. Mass., Doc. E 1853, *Krentler-Arnold Hinge Last Co.* v. *G. E. Belcher Last Co.*

849,383, J. L. Fruin, Sanitary T, suit filed July 26, 1923, D. C., N. D. Ill., Doc. 3687, *Fruin & Walker Co. et al.* v. *Orlando Noble et al.*

957,403, N. Baldwin, Telephone receivers, suit filed July 2, 1923, D. C., N. D. Ill., Doc. 3666, *N. Baldwin, Inc.*, v. *H. G. Saal Co. et al.*

969,244. (See 842,319.)

973,523, G. W. Lorimer, Sand-cutting machine, suit filed July 13, 1923, D. C., N. D. Ill., Doc. 3676, *The American Foundry Equipment Co.* v. *Woodruff & Edwards Co.*

977,166, H. D. Colman, Thread-selecting device; 1,115,399, same, Machine for preparing warps for weaving; 1,442,776, same, Machine for operating upon warps, suit filed Sept. 14, 1923, D. C., D. Mass., Doc. E 1851, *Barber-Colman Co.* v. *J. Withnell.*

1,115,399. (See 977,166.)

1,133,260, Bullock & Lloyd, Abrasives; 1,311,550, same, Process of forming abrasives; 1,351,021, same, Abrasive disk wheels; 1,458,322, same, Process of manufacturing abrasive disks, suits filed Aug. 9, 1923, D. C., N. D. Ill., Doc. 3700, *S. M. Bullock et al.* v. *C. H. Besley & Co.* Same, Doc. 3701, *S. M. Bullock et al.* v. *Titan Abrasives Co. et al.*

1,311,550. (See 1,133,260.)

1,351,021. (See 1,133,260.)

1,361,599, Re. 15,545, 1,372,154, A. L. McGregor, Automobile bumper, suit filed July 2, 1923, D. C., N. D. Ill., Doc. 3665, *C. G. Spring Bumper Co.* v. *Temme Spring Corp.*

1,366,078, T. F. Johnson, jr., Method of locating faulty suspension insulators on live-wire transmission lines, suit filed Sept. 21, 1923, D. C., S. D. N. Y., Doc. E 27/126, *T. F. Johnson, Jr.*, v. *The United Hudson Electric Corp. et al.*

1,372,154. (See 1,361,599.)

1,442,776. (See 977,166.)

1,458,322. (See 1,133,260.)

1,461,650, Falzer & Webber, Hoisting machines, suit filed July 24, 1923, D. C., N. D. Ill., Doc. 3685, *L. Falzer* v. *Thomas Elevator Co.*

T. M. 151,254, Templeton Coal Co., Coal, suit filed Aug. 6, 1923, D. C., N. D. Ill., Doc. 3698, *Templeton Coal Co.* v. *Binkley Coal Co. et al.*

Des. 60,878, Pardee & Suporter, Radiator cap, suit filed July 12, 1923, D. C., N. D. Ill., Doc. 3674, *Miller & Pardee, Inc.*, v. *G. A. McDonough et al.* Same, suit filed July 3, 1923, D. C., N. D. Ill., Doc. 3667, *Miller & Pardee, Inc.*, v. *Best Motor-Meter Lock Co.*

Re. 15,545. (See 1,361,599.)

TRADE-MARKS

OFFICIAL GAZETTE, OCTOBER 23, 1923.

[VOL. 315. No. 4.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 103,894. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KINNEY BROTHERS, Binghamton, N. Y. Filed May 17, 1917.



The mark consists of a seal with four crosses in white across the same, with the words "Kinney Bro's Creameries, Fancy Creamery Butter, Binghamton, N. Y.," also in white, no claim being made to the words "Creameries, Fancy Creamery Butter, Binghamton, N. Y." apart from the other features of the mark as shown in the drawing.

Particular description of goods.—Butter.

Claims use since Jan. 1, 1916.

Ser. No. 119,973. (CLASS 12. CONSTRUCTION MATERIALS.) DENVER GAS AND ELECTRIC LIGHT COMPANY, Denver, Colo. Filed June 26, 1919.



Particular description of goods.—Roofing Paper, Building Paper, Tar in Plastic Form for Roofing Purposes, Tar Blended with Asphaltic or Bituminous Materials to Provide Plastic Compounds for Roofing and Paving Purposes, Waterproofing Cement, and Bituminous Cement Having Asbestos Therein.

Claims use since April, 1913.

Ser. No. 138,746. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) AMERICAN DRAFTING FURNITURE CO., INC., Rochester, N. Y. Filed Oct. 25, 1920. Under ten year proviso.

AMERICAN

Particular description of goods.—Drafting Tables, Drafting Boards, and Attachments for Drafting Tables and Drafting Boards, Photo-Retouching Desks and Tables, and Blue-Print Desks and Tables.

Claims use since 1893.

Ser. No. 142,379. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ALUMINUM SALES CO. INC., New York, N. Y. Filed Jan. 18, 1921.

Pyramid Ware

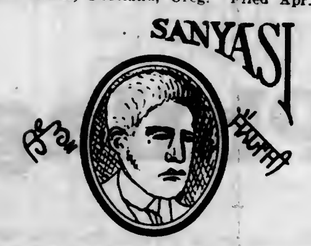
Lasting as The Pyramids

No claim is made to the word "Ware" apart from the mark shown on the drawing.

Particular description of goods.—Kitchen Utensils—Namely, Kettles, Pots, Double Boilers, Pans, Cookers, Casseroles, Toasters, Strainers, Pitchers, Bowls, Baking Dishes, Skimmers, Ladles, Basins, Cups, Saucers, Colanders, Cake Turners, Potato Mashers, Tea Balls, Coffee Balls, Percolators, Graters, Cooky, Doughnut and Biscuit Cutters, Funnels, Pudding Molds, Salad Molds, Jelly Molds, and Salt and Pepper Shakers.

Claims use since Dec. 30, 1920.

Ser. No. 145,923. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WAHSAN SINGH, Portland, Oreg. Filed Apr. 8, 1921.



The portrait is of the applicant. The characters to the left of the portrait mean "Hindoo" and those to the right

mean "Treats with Herbs." No claim is made to these words apart from the trade-mark shown.

Particular description of goods.—Herb Hair Cream and Massage Cream.

Claims use since June 8, 1920.

Ser. No. 146,536. (CLASS 37. PAPER AND STATIONERY.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Apr. 22, 1921.

KYLESFORD

Particular description of goods.—Writing Paper.

Claims use since 1908.

Ser. No. 149,922. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE MARATHON TIRE & RUBBER COMPANY, Cuyahoga Falls, Ohio. Filed July 1, 1921.



The trade-mark consists of the word "Marathon."

Particular description of goods.—Golf Balls and Golf-Stick Grips.

Claims use since June 15, 1921.

Ser. No. 150,287. (CLASS 2. RECEPTACLES.) PHILIPPS AKTIEN-GESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed July 12, 1921.

Philag

Particular description of goods.—Boxes for Music-Note-Roll Ribbons and Music-Note Sheets.

Claims use since July 1, 1919.

Ser. No. 151,150. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELECTRICAL SPECIALTY COMPANY, Columbus, Ohio. Filed July 30, 1921.

SERVICE ESCO QUALITY

No claim is made for the words "Service" and "Quality" apart from the mark as shown.

Particular description of goods.—Electrical Apparatus—Namely, Regenerative Receivers, Variocouplers, Variometers, Variometer Dials, Loose Couplers, and Current Detectors.

Claims use since Mar. 1, 1920.

Ser. No. 151,812. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) S. STERNAU & CO. INC., New York, N. Y. Filed Aug. 15, 1921.

Sterno

Particular description of goods.—Cooking Stands, Stoves, Teakettle-Heating Outfits, Combination Stoves, Sadiron-Heating Outfits, Kitchenettes, Baby Milk Warmers, Disk Stoves, Curling-Iron Heaters, Camp Cooking Outfits, Burners for Chafing Dishes, Coffee Machines, and Teakettles, Stove Plates, Flame Extinguishers, Flame Reducers, Windshields and Boilers, in Connection with Which a Solidified Alcohol is Employed as Fuel.

Claims use since Jan. 12, 1915.

Ser. No. 153,419. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARIA TALENTO, Palermo, Italy. Filed Sept. 27, 1921.



No claim is asserted to the exclusive use of the words "Marca Brevettata" apart from the mark shown in the drawing.

Particular description of goods.—Medical Compound for the Relief of Lung Diseases and Diseases of the Bones and Blood.

Claims use since August, 1918.

Ser. No. 154,155. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) "SMALLEX," Chicago, Ill. Filed Oct. 15, 1921.

SMALLEX

Particular description of goods.—Inunction for External Application for the Treatment of Rheumatism.

Claims use since Sept. 1, 1921.

Ser. No. 156,496. (CLASS 39. CLOTHING.) LUMB KNITTING COMPANY, Pawtucket, R. I. Filed Dec. 9, 1921.

Protex

Particular description of goods.—Infants' Patented Buttonless Shirts.

Claims use since Nov. 15, 1904.

Ser. No. 157,380. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) MURPHY IRON WORKS, Detroit, Mich. Filed Dec. 31, 1921.

MIW

Particular description of goods.—Coal-Burning Furnaces, Coal-Burning-Furnace Castings, and Coal-Feeding Stokers.

Claims use since June 15, 1921.

Ser. No. 159,354. (CLASS 39. CLOTHING.) FRIEDMAN & FRIEDMAN, Brooklyn, N. Y. Filed Feb. 15, 1922.

Night Pal

Particular description of goods.—Wearing Apparel—Namely, Pyjamas.

Claims use since Jan. 3, 1922.

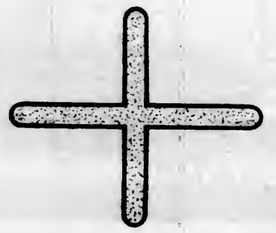
Ser. No. 159,826. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WEBERS, Milwaukee, Wis. Filed Feb. 25, 1922.

SWEETOKEN

Particular description of goods.—Candy.

Claims use since Feb. 1, 1922.

Ser. No. 159,974. (CLASS 39. CLOTHING.) LANE BRYANT, New York, N. Y. Filed Feb. 28, 1922.



Particular description of goods.—Outer Garments—Namely, Coats, Suits, Skirts, Breeches, Dresses, Waists, Sweaters, Jackets, Kimonos; and Inner Garments—Namely, Corsets, Brassières, Union Suits, Chemises, and Petticoats, of Textile and Knitted Fabrics.

Claims use since about Feb. 1, 1922.

Ser. No. 160,356. (CLASS 39. CLOTHING.) LANE BRYANT, New York, N. Y. Filed Mar. 8, 1922.

PLUS

Particular description of goods.—Outer Garments—Namely, Coats, Suits, Skirts, Breeches, Dresses, Waists, Sweaters, Jackets, Kimonos; and Inner Garments—Namely, Corsets, Brassières, Union Suits, Chemises, and Petticoats, of Textile and Knitted Fabrics.

Claims use since about Feb. 1, 1922.

Ser. No. 161,256. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) IRELAND BROS. INC., New York, N. Y. Filed Mar. 25, 1922.

FLEUR-DE-LIS

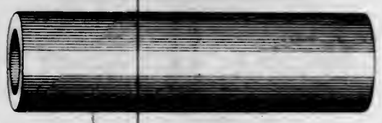
Particular description of goods.—Linen Goods in the Piece, Handkerchiefs, and Household or Domestic Goods Manufactured from Linen.
Claims use since 1906.

Ser. No. 161,450. (CLASS 12. CONSTRUCTION MATERIALS.) THE PARAFFINE COMPANIES, INC., San Francisco, Calif. Filed Mar. 29, 1922.

FLOATOID

Particular description of goods.—A Composition for Coating Roofs, Consisting Principally of Asphalt and Asbestos Fiber.
Claims use since Jan. 1, 1922.

Ser. No. 161,514. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) VOORHEES RUBBER MFG. CO., Jersey City, N. J. Filed Mar. 30, 1922.



The mark consists of a stripe of white on the outer surface of the hose, extending in a straight line longitudinally thereof, as shown in the accompanying drawing, no claim being made to the representation of a section of hose.
Particular description of goods.—Hose Made Wholly or Partly of Rubber or a Rubber Composition.
Claims use since Mar. 28, 1922.

Ser. No. 161,625. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE HOUDAILLE COMPANY, New York, N. Y. Filed Apr. 1, 1922.

HOUDAILLE

Particular description of goods.—Automobile Accessories—Namely, Shock Absorbers.
Claims use since about 1917.

Ser. No. 161,626. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE HOUDAILLE COMPANY, Buffalo, N. Y. Filed Apr. 1, 1922.

HOO-DYE

Particular description of goods.—Automobile Accessories—Namely, Shock Absorbers.
Claims use since about September, 1920.

Ser. No. 162,070. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARGARET R. SANBORN, doing business as Blue Bird Food Company, Chicago, Ill. Filed Apr. 10, 1922.



The trade-mark includes the representation of a bird in flight, the body of which is blue in color outlined in gold.
Particular description of goods.—Salad Dressings.
Claims use since Mar. 1, 1922.

Ser. No. 162,403. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FREDERICK W. GRIEBNOW, doing business as El Rey Club Tamale & Enchilada Corporation, San Francisco, Calif. Filed Apr. 17, 1922.



The words "Quality" and "Tamales" are disclaimed apart from the mark as shown.
Particular description of goods.—Fresh and Canned Tamales and Enchiladas.
Claims use since Mar. 1, 1921.

Ser. No. 163,000. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PACIFIC BY-PRODUCTS CO., San Jose, Calif. Filed Apr. 27, 1922.

CARBONUT

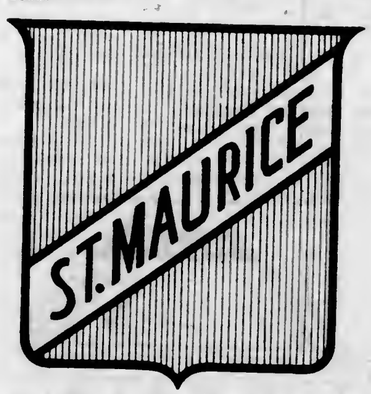
Particular description of goods.—Carbonizing Compound for Hardening Steel.
Claims use since May 24, 1921.

Ser. No. 164,003. (CLASS 15. OILS AND GREASES.) THE PURE OIL CO., Columbus, Ohio. Filed May 17, 1922.

PUROLENE

Particular description of goods.—Gasoline.
Claims use since Apr. 1, 1920.

Ser. No. 164,724. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ST. MAURICE PAPER COMPANY, LIMITED, Montreal, Quebec, Canada. Filed May 31, 1922.



The field of the shield delineated in said drawing is red, as denoted by the lines thereof.
Particular description of goods.—Paper Pulp—Namely, Ground Wood, Kraft, and Sulphate Pulp, Sulphite Pulp, and Screenings Pulp.
Claims use since prior to May 12, 1922.

Ser. No. 165,112. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ANACONDA COPPER MINING COMPANY, New York, N. Y. Filed June 7, 1922.

ANACONDA
ECONOMY STRIP COPPER

No claim is made herein to the registration of the words "Strip Copper."
Particular description of goods.—Cast, Drawn, Rolled, Extruded, Pressed, and Machined Nonferrous Metals and Alloys, and Ingots, Castings, Sheets, Rolls, Wire Strips, and Rods Made from Such Metals and Alloys, and Specifically Strip Copper.
Claims use since May 1, 1922.

Ser. No. 165,311. (CLASS 39. CLOTHING.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed June 10, 1922.

KARATEX

Particular description of goods.—Women's, Children's, and Infants' Coats, Cloaks, Wraps, Capes, Suits, Costumes, Dresses, Waists, Skirts, and Hats.
Claims use since Mar. 31, 1892.

Ser. No. 165,572. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) JOHANN SCHMIDT OBLATENFABRIK, Nuremberg, Germany. Filed June 15, 1922.

Guttamyl

Particular description of goods.—Wafers Designed to be Used for Lining Bakers' Ware, Apparatus for Baking Wafers.
Claims use since December, 1913.

Ser. No. 165,831. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed June 21, 1922.



Particular description of goods.—Candles.
Claims use since Apr. 17, 1922.

Ser. No. 165,832. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed June 21, 1922.



Particular description of goods.—Candles.
Claims use since Apr. 13, 1922.

Ser. No. 165,833. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed June 21, 1922.

KALO-CHROME

Particular description of goods.—Candles.
Claims use since Oct. 25, 1921.

Ser. No. 166,264. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) RED CHIEF POLISH MANUFACTURING COMPANY, New Orleans, La. Filed June 29, 1922.

RED CHIEF

Particular description of goods.—Polish for Automobiles, Furniture, and Incidentally for Tile and Porcelain.
Claims use since June 10, 1922.

Ser. No. 166,277. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BENJAMIN ELECTRIC MANUFACTURING COMPANY, Chicago, Ill. Filed June 30, 1922.

PARABOLITE

Particular description of goods.—Electrical-Lighting-Fixture Units.
Claims use since about Nov. 1, 1915.

Ser. No. 167,066. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. & A. DRUG CO., Elmer, N. J. Filed July 18, 1922.

ECHAZEL

Particular description of goods.—Medicine Used Externally and Internally in the Treatment of Sprains, Bruises, Bites, Burns, Stings, Scalds, Painful Swellings, Eczema, Piles, Blood Poison, Ivy Poison, Itching Humors, Cuts, Open Wounds, Ulcers, Old Sores, Sore Nipples, Sore Eyes, Leucorrhea and Uterine Affections, Catarrh, Sore Throat, Spongy Gums, Bad Breath, and to Prevent Decay of Teeth.
Claims use since May 5, 1917.

Ser. No. 167,282. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GEORGE WILLCOMB COMPANY, Boston, Mass. Filed July 22, 1922.

WILLCO
QUALITY SERVICE
SINCE 1839

No claim is made to the exclusive use of the words "Quality" and "Service" apart from the mark shown in the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since May 20, 1922.

Ser. No. 167,512. (CLASS 15. OILS AND GREASES.) BENZO-GAS MOTOR FUEL COMPANY, Kansas City, Mo. Filed July 28, 1922.

TRUOIL

No claim is made to the word "Truoil" apart from the mark as shown in the drawing.
Particular description of goods.—Lubricant for Machinery.
Claims use since about January, 1922.

Ser. No. 167,594. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) PIERRE BILLARD, Paris, France. Filed July 31, 1922.

CALCOPHORE

Particular description of goods.—Medicinal Vaporizing Device and Particularly for Those Permitting the Introduction in Suspension in the Vapor of Solid Particles.
Claims use since June 4, 1921.

Ser. No. 167,670. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) T. N. BENEDICT MFG. CO., East Syracuse, N. Y. Filed Aug. 1, 1922.

B B

Particular description of goods.—Silver-Plated Table and Hollow Ware and Articles Plated with Precious Metal, as follows: Tea Sets, Coffee Sets, Trays, Cups, Plates, Casseroles, Bowls, Vegetable Dishes, Bonbon Dishes, Vases, Cracker and Cheese Dishes, Crumb Sets, Candlesticks, and Pitchers.
Claims use since on or about July 1, 1903.

Ser. No. 167,750. (CLASS 39. CLOTHING.) YOUNG INVENTIONS INC., New York, N. Y. Filed Aug. 2, 1922.

STAY PUT

Particular description of goods.—Hosiery.
Claims use since June 2, 1922.

Ser. No. 168,319. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. H. LANE & CO., New York, N. Y. Filed Aug. 16, 1922.

PALMA

The mark consists of the word "Palma."
Particular description of goods.—Fustian.
Claims use since 1902.

Ser. No. 168,349. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE BARBER ASPHALT PAVING COMPANY, Philadelphia, Pa. Filed Aug. 17, 1922.

GENASCO
THE STANDARD OF EXCELLENCE
WITHSTANDS THE TEST OF TIME

The lining on the drawing does not indicate any particular color. The words "The Standard of Excellence" and "Withstands the Test of Time" are disclaimed as trade-marks except as used in conjunction with the mark shown in the drawing.
Particular description of goods.—Ready-Mixed Metal Roof Paint, Ready-Mixed Industrial Paint, Ready-Mixed Acidproof Paint, Ready-Mixed Battery Paint, Ready-Mixed Boiler Paint, Ready-Mixed Rustless Slushing Compound, Ready-Mixed Positive-Seal Priming Paint, Mineral Spirits, Marine Enamel, Ready-Mixed Marine Paints, Ready-Mixed Paints, and Paint Oil.
Claims use since Aug. 1, 1921.

Ser. No. 168,453. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CUTHBERT S. BUTCHART COMPANY, INC., Rye, N. Y. Filed Aug. 19, 1922.

BUTCHART BILT
C. S. Butchart

Particular description of goods.—Golf Clubs.
Claims use since Jan. 1, 1921.

Ser. No. 168,622. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHWEITZER "COCOATINA" CO., LIMITED, Holloway, London, England. Filed Aug. 23, 1922.

COCOATINA

Particular description of goods.—Cocoa.
Claims use since 1855.

Ser. No. 168,882. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GOLD MEDAL WATER-PROOFING CO., Oakland, Calif., assignor to Waterproofed Products Company, Oakland, Calif., a Corporation of California. Filed Aug. 30, 1922.

Polomeric

Particular description of goods.—Compound to be Used in Place of Red-Lead Putty, Composed Chiefly of China-Wood Oil and Mineral Colorings.
Claims use since 1908.

Ser. No. 169,776. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ALFONSO JOSEPH PESCI, Chicago, Ill. Filed Sept. 21, 1922.

WONDER OIL

No claim is made for the word "Oil" apart from the mark shown on the drawing.

Particular description of goods.—Furniture and Automobile Polish.

Claims use since Jan. 10, 1921.

Ser. No. 170,281. (CLASS 12. CONSTRUCTION MATERIALS.) GRANITFACE COMPANY INC., Brooklyn, N. Y. Filed Oct. 4, 1922.

GRANITFACE

Particular description of goods.—Stucco.

Claims use since Aug. 3, 1922.

Ser. No. 170,282. (CLASS 12. CONSTRUCTION MATERIALS.) GRANITFACE COMPANY INC., Brooklyn, N. Y. Filed Oct. 4, 1922.



Particular description of goods.—Stucco.

Claims use since Aug. 3, 1922.

Ser. No. 170,362. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMMA BEECHAM, doing business as Beechams Laboratory, Oscawana-on-Hudson, N. Y. Filed Oct. 6, 1922.



Particular description of goods.—Perfume, Toilet Waters, Face Powders, Talcum, Lip Sticks, Face Creams, Rouges, Hair Oils, Hair Tonics, Dentifrices, Tooth Powders, Nail Polishes, and Sachet Powders.

Claims use since October, 1915.

Ser. No. 170,543. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PURITY ICE CREAM COMPANY, Tulsa, Okla. Filed Oct. 10, 1922.

PURITY
XX
ICE CREAM

No claim is made to the words "Purity" or "Ice Cream" apart from the "XX" forming the essential feature of the mark.

Particular description of goods.—Ice Cream.

Claims use since Mar. 1, 1922.

Ser. No. 171,113. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) WILCOX MOFFLIN LIMITED, Sydney, New South Wales, Australia. Filed Oct. 23, 1922. Under ten-year proviso.

WMC

Particular description of goods.—All Kinds of Hides, Skins, Tallow, and Wool.

Claims use since Sept. 1, 1892.

Ser. No. 171,954. (CLASS 12. CONSTRUCTION MATERIALS.) "PRODOR" FABRIQUE DE PRODUITS ORGANIQUES S. A., Geneva, Switzerland. Filed Nov. 13, 1922.

PRODORITE

Particular description of goods.—Clay, Tile, and Terra-Cotta Pipes and Conduits, Columns, Struts, Pavings, Impermeable Flaggings, and Mineral Pipe, Roof, Tunnel, and Vault Coverings.

Claims use since July, 1922.

Ser. No. 172,291. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) OPITZ MANUFACTURING COMPANY, Milwaukee, Wis. Filed Nov. 20, 1922.

HEXCEL EXCELS

No claim is made to the word "Excels" apart from the mark shown.

Particular description of goods.—Automobile Radiators.

Claims use since on or about May 16, 1922.

Ser. No. 172,370. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH CAMPBELL COMPANY, Camden, N. J., assignor to Campbell Soup Company, Camden, N. J., a Corporation of New Jersey. Filed Nov. 22, 1922.



In the label shown in the drawings the rectangular panels are the upper one red and the lower one white, the torches, fleur-de-lis borders, and medallion are in gold; the border lines are the one at the top white and the one at the bottom red, and "Campbell's" appears in letters bordered in black and filled in white. No claim is made to the outline of the label nor to the words and figures that appear upon the medallion nor to the medal apart from other features of the mark.

Particular description of goods.—Canned Tomatoes, Corn, Peas, and Beans.

Claims use since about October, 1922.

Ser. No. 173,047. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SOLOMON RITTER HIPPLE, Williamsport, Pa., assignor to DX Instrument Company, Harrisburg, Pa., a Corporation of Delaware. Filed Dec. 7, 1922.



Particular description of goods.—Rheostats.

Claims use since Nov. 30, 1922.

Ser. No. 173,268. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) YARDSMORE GOLF CLUB MANUFACTURING COMPANY, New York, N. Y. Filed Dec. 12, 1922.

YARDSMORE

Particular description of goods.—Golf Clubs and Golf-Club Heads Finished and Partly Finished.

Claims use since Nov. 14, 1922.

Ser. No. 174,173. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) MEADE RUBBER COMPANY, Stoughton, Mass. Filed Jan. 4, 1923.

"GOS-MER-ETT"

Particular description of goods.—Rubberized Cloth.

Claims use since Oct. 14, 1922.

Ser. No. 174,351. (CLASS 39. CLOTHING.) WICKS & GREENMAN, Utica, N. Y. Filed Jan. 8, 1923.

BOYPROOF

Particular description of goods.—Boys' Clothing—Namely, Suits and Overcoats.

Claims use since June 1, 1921.

Ser. No. 175,393. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WILFRID HILL, doing business as The County Golf Company, Birmingham, England. Filed Feb. 1, 1923.

CHEMICO

Particular description of goods.—Golf Balls.

Claims use since Nov. 3, 1921.

Ser. No. 175,726. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE MASTER TIRE & RUBBER CO., Dayton, Ohio. Filed Feb. 8, 1923.

Armour

Particular description of goods.—Rubber Tires.

Claims use since Jan. 2, 1923.

Ser. No. 175,830. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE ANIMATED MINIATURE THEATRE CORP., New York, N. Y. Filed Feb. 8, 1923.

Tanagra
Imp.

Particular description of goods.—Miniature Theaters in the Nature of an Advertising Device.

Claims use since Dec. 12, 1922.

Ser. No. 176,348. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) JOHNSON GAS APPLIANCE COMPANY, Cedar Rapids, Iowa. Filed Feb. 20, 1923.



Applicant makes no claim to the representation of the goods shown on the trade-mark.

Particular description of goods.—Gas Appliances.

Claims use since Jan. 19, 1922.

Ser. No. 176,665. (CLASS 12. CONSTRUCTION MATERIALS.) JOHN J. BRIGGS, Indianapolis, Ind. Filed Feb. 27, 1923.

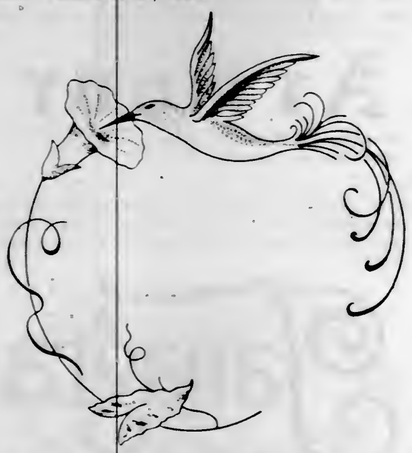


Drawing consists of the name "Silvertone" with larger terminal letters and with a shaded bar running through a portion of the width of said letters.

Particular description of goods.—Building Stone, Limestone, Lime, Cement, Stucco, and Plaster; Marble, Natural and Artificial; Lath, Wood and Metal; Lumber, and Structural Steel, Plain, Finished, and Fabricated.

Claims use since July 1, 1922.

Ser. No. 176,669. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CROWN CHEMICAL COMPANY, now by change of name Boncilla Laboratories, Incorporated, Indianapolis, Ind. Filed Feb. 27, 1923.



Particular description of goods.—Facial-Pack Cold Cream, Vanishing Cream, Face Powder, Talcum Powder, Toilet Water, Perfume, No Chafe (Stearate), Bath Powder, Healing Cream, Dental Cream, Lemon Cream, Nail Polish, Depilatory, Lip Rouge, Rouge Compact, Eyebrow Pencil, Cosmetic (for Eyelashes), Face-Powder Compacts, Skin Lotion, Toilet Powder.

Claims use since May, 1918.

Ser. No. 176,670. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CROWN CHEMICAL COMPANY, now by change of name Boncilla Laboratories, Incorporated, Indianapolis, Ind. Filed Feb. 27, 1923.

Clasmic

Particular description of goods.—Facial Pack.

Claims use since February, 1922.

Ser. No. 176,734. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL MYRON ERBAR, doing business as Seroline Remedy Co., Red Wing, Minn. Filed Feb. 28, 1923.

SEROLINE

Particular description of goods.—Preparation for the Treatment of Piles.

Claims use since Jan. 1, 1920.

Ser. No. 177,064. (CLASS 15. OILS AND GREASES.) ASSOCIATED OIL COMPANY, San Francisco, Calif. Filed Mar. 7, 1923.



The meaning of the Chinese characters appearing upon the drawing is as follows:— The two characters appearing above the word "Associated," literally translated, are "beautiful nation." The characters appearing at the sides of the representation of the clock, reading from right to left, literally translated, are "long and bright petroleum." Applicant disclaims the exclusive right to the use of the words "Kerosene" and "Long and Bright Petroleum" and also to the outline of the top of a can apart from the mark as shown.

Particular description of goods.—Kerosene.

Claims use since Nov. 15, 1923.

Ser. No. 177,196. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CHARLES E. PICKETT, doing business as Pentucket Novelty Company, Haverhill, Mass. Filed Mar. 9, 1923.



Particular description of goods.—Toy Carts, Coasters, Wheelbarrows, Scooters, and Wagons.

Claims use since Sept. 1, 1922.

Ser. No. 177,920. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWIN M. MURPHY, Macon, Miss. Filed Mar. 23, 1923.

JONES
EXCELSIOR

Particular description of goods.—Medicinal Preparation Recommended for Use in the Treatment of Malaria and Chills.

Claims use since May 1, 1919.

Ser. No. 178,271. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OLYMPIA CANNING COMPANY, Olympia, Wash. Filed Mar. 29, 1923.



Particular description of goods.—Canned Fruits—Namely, Blackberries, Raspberries, Loganberries, and Pears.

Claims use since March, 1921.

Ser. No. 178,716. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JOHN C. DOLPH COMPANY, Newark, N. J. Filed Apr. 7, 1923.

CHINALAK

Particular description of goods.—Varnish.

Claims use since May 1, 1915:

Ser. No. 179,160. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) FREDERICK WINSTANLEY MODY, Manchester, England. Filed Apr. 14, 1923.



Particular description of goods.—Tobacco Pipes.

Claims use since Mar. 16, 1922.

Ser. No. 179,187. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE EGYPTIAN LACQUER MANUFACTURING COMPANY, New York, N. Y. Filed Apr. 16, 1923. Under ten-year proviso.

EGYPTIAN

Particular description of goods.—Lacquers, Lacquer Thinners, and Lacquer Enamels.

Claims use since September, 1892.

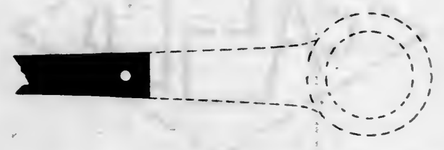
Ser. No. 179,192. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FLORASYNTH LABORATORIES, New York and Unionport, N. Y. Filed Apr. 16, 1923.

VANILLAROME

Particular description of goods.—Flavoring Extract for Food Purposes.

Claims use since 1919.

Ser. No. 179,265. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) ALFRED DUNHILL OF LONDON, INC., New York, N. Y. Filed Apr. 17, 1923.



The trade-mark comprising the white spot appears upon the upper surface adjacent the inner ends of the stems of the pipes, cigar and cigarette holders, and upon the face of the buttons attached to the closure of the tobacco pouches.

Particular description of goods.—Pipes, Cigar and Cigarette Holders, and Tobacco Pouches.

Claims use since July 1, 1916.

Ser. No. 179,367. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) FRANK B. GRAVES Co., Albany, N. Y. Filed Apr. 19, 1923.



Particular description of goods.—Absorbent Cotton.
Claims use since Jan. 19, 1921.

Ser. No. 179,466. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ABRAHAM S. GOLDSTEIN, doing business as The Anchor Company, Pittsburgh, Pa. Filed Apr. 21, 1923.



No claim is made to the words "The Million Dollar Crystal" apart from the mark shown in the drawing.
Particular description of goods.—Individually-Packed Crystals (Galena) for Radio Sets.
Claims use since Mar. 15, 1923.

Ser. No. 179,658. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) COOK & SWAN COMPANY, INC., New York, N. Y. Filed Apr. 25, 1923.



Particular description of goods.—Animal, Fish, and Vegetable Oil for Industrial Purposes in the Manufacture of Linoleum, Oilcloth, Paint, Varnish, Enamels; for the Manufacture of Leather and Leather Products, for the Manufacture of Artificial Leather, for Tempering Steel, and for Very Many Other Products Which Require the Use of These Various Animal, Fish, and Vegetable Oils.
Claims use since Apr. 20, 1923.

Ser. No. 179,686. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RAYMOND W. SMITH, doing business as Chemical Products Company, St. Louis, Mo. Filed Apr. 25, 1923.

EYESE

Particular description of goods.—Eye Remedy, Preparation for the Treatment of Sore, Granulated, Inflamed, or Irritated Conditions of the Eye or Lids.
Claims use since Apr. 1, 1923.

Ser. No. 179,742. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RED FOOT PRODUCTS COMPANY, INC., Detroit, Mich. Filed Apr. 26, 1923.



The applicant hereby disclaims the right of registration of the words "Products" also "Best by Test" and "Registered," appearing in the drawing.
Particular description of goods.—Medicinal Preparations—Namely, Corn and Callus Remover, Antiperspiration Foot Lotion, Antiseptic Powder for Ovarian Troubles; Lotion for Eczema, Antiperspiration Foot Powder, and a General Antiperspiration Lotion and Powder.
Claims use since Dec. 31, 1922.

Ser. No. 179,762. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE YEAGER, doing business as Y-P Laboratories, Cincinnati, Ohio. Filed Apr. 26, 1923.

IT-WILL

Particular description of goods.—Medicinal Preparation for Sore Throat and Irritated Tonsils.
Claims use since Sept. 15, 1920.

Ser. No. 179,771. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BETTERTON-RUPERT COFFEE CO., Ashland, Ky. Filed Apr. 27, 1923.

Princess Ann



The picture of the woman shown on the drawing is merely fanciful, to which no claim is made apart from the other features of the mark.
Particular description of goods.—Coffee.
Claims use since Oct. 11, 1922.

Ser. No. 179,819. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) FREDERICK PFEIFFER, St. Louis, Mo. Filed Apr. 27, 1923.



Applicant disclaims the words "Aluminum," "Arch Support," and "Patent Applied for" and the representation of an arch support apart from the mark shown on the drawing.
Particular description of goods.—Foot-Arch Supports.
Claims use since about Apr. 17, 1923.

Ser. No. 179,824. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SCHREYER & CO., Nuremberg, Germany. Filed Apr. 27, 1923.



Particular description of goods.—Fabric Toy Fixtures of All Kinds with Movable or Immovable Heads and Links, Such as Character Babies, Animal Toy Figures; Toy Figures of All Kinds Made of Fabric and with Mechanical Spring or Fly-Wheel Operation; Toys of Sheet Metal, Wood, and Cardboard; Dolls and Animal Toy Figure Heads; Toy Cars, Including Those with Mechanical Spring Mechanism and with Fly-Wheel Operation.
Claims use since Aug. 22, 1921.

Ser. No. 179,906. (CLASS 32. FURNITURE AND UPHOLSTERY.) CLYDE W. WARREN, doing business as Automatic Curtain Co., Sauk Rapids, Minn. Filed Apr. 28, 1923.

COTTAGE PORCH SHADE

No claim is made to the words "Porch Shade" shown in the drawing.
Particular description of goods.—Porch Shades.
Claims use since Sept. 1, 1921.

Ser. No. 179,977. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) HARRIS E. WHITING, doing business as Whiting Leather & Belting Company, Long Island City, N. Y. Filed Apr. 30, 1923.

BEDROCK

Particular description of goods.—Leather Belting.
Claims use since October, 1921.

Ser. No. 179,995. (CLASS 12. CONSTRUCTION MATERIALS.) EVENS & HOWARD FIRE BRICK CO., St. Louis, Mo. Filed May 1, 1923.

VULCAN

Particular description of goods.—Fire Brick.
Claims use since Jan. 15, 1911.

Ser. No. 180,079. (CLASS 12. CONSTRUCTION MATERIALS.) PELICAN BAY LUMBER COMPANY, Klamath Falls, Oreg. Filed May 2, 1923.



Particular description of goods.—Lumber, Laths, Moldings, Sidings.
Claims use since July 21, 1921.

Ser. No. 180,195. (CLASS 39. CLOTHING.) THE SHURFIT HOSIERY COMPANY, NOT INC., Chicago, Ill. Filed May 4, 1923.

Shurfit

Particular description of goods.—Hosiery.
Claims use since Mar. 15, 1923.

Ser. No. 180,382. (CLASS 12. CONSTRUCTION MATERIALS) MINERAL PRODUCTS, INC., Los Angeles, Calif. Filed May 9, 1923.

MINROCK PRODUCTS

The word "Products" is disclaimed apart from the mark as shown.
Particular description of goods.—Roofing Materials Composed of Crushed Rock of Various Grades of Fineness, Composition Flooring Composed of Crushed Rock of Various Grades of Fineness and Colors, Stucco, Artificial Stone.
Claims use since Apr. 1, 1923.

Ser. No. 180,419. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) JOHN D. CHILDS, doing business as Blue Ribbon Products Co., Reading, Pa. Filed May 10, 1923.

Tip-Top

Particular description of goods.—Malt Sirup for Beverages.
Claims use since Mar. 15, 1923.

Ser. No. 180,469. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) DELPHIE SPECIALTY MANUFACTURING COMPANY, Detroit, Mich. Filed May 11, 1923.

MISS AMERICA

Particular description of goods.—Electric Clothes Washers.
Claims use since Dec. 1, 1922.

Ser. No. 180,489. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PERCY W. OWEN, doing business as Southern Feed Co., Birmingham, Ala. Filed May 11, 1923.

M AND O

Particular description of goods.—Cow, Horse, Mule, and Hen Feed.
Claims use since on or about Apr. 1, 1923.

Ser. No. 180,534. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GARTSIDE'S IRON RUST SOAP CO., Philadelphia, Pa. Filed May 12, 1923.

TUBELL

Particular description of goods.—Laundry Blue.
Claims use since Dec. 2, 1922.

Ser. No. 180,576. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) E. C. ATKINS & COMPANY, Indianapolis, Ind. Filed May 14, 1923.

AAA

Particular description of goods.—Leather Belting and Rubber Belting.
Claims use since on or about Sept. 1. 1903, on leather belting; since on or about Sept. 1, 1921, on rubber belting.

Ser. No. 180,633. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) U. S. HAME COMPANY, Buffalo, N. Y.; Chicago, Ill.; Cleveland, Ohio, and Detroit, Mich. Filed May 14, 1923.



No claim is made to the words "Buffalo, N. Y." separate and apart from the other features of the mark, nor is any claim made to color as an essential feature of applicant's trade-mark.
Particular description of goods.—Commercial Motor-Vehicle Bodies.
Claims use since Jan. 1, 1922.

Ser. No. 180,809. (CLASS 12. CONSTRUCTION MATERIALS.) PARAGON CEMENT PRODUCTS CO., St. Louis, Mo. Filed May 18, 1923.

NO-DEE-KAY

Particular description of goods.—Cement Products, Particularly Cement Building Siding.
Claims use since Dec. 15, 1919.

Ser. No. 180,857. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) GENERAL WATER HEATER CORPORATION, Los Angeles, Calif. Filed May 19, 1923.

MONITOR

Particular description of goods.—Water Heaters, Automatic and Nonautomatic, Operated Either by Gas or Electricity.
Claims use since January, 1920.

Ser. No. 180,895. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AARON SCHNEIDER, doing business as La Minnuette Trading Co., New York, N. Y. Filed May 19, 1923.

IMMORTELLE

Particular description of goods.—Rouges, Face Powders, Compact, Lip Sticks, and Eyebrow Pencils.
Claims use since July 1, 1922.

Ser. No. 180,942. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHILADELPHIA STORAGE BATTERY CO., Philadelphia, Pa. Filed May 21, 1923.

PHILCO

Particular description of goods.—Electrolytes.
Claims use since about Sept. 15, 1922.

Ser. No. 181,013. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN B. CORI, doing business as United States Remedy Co., Jacksonville, Fla. Filed May 23, 1923.

DISINFECTALL



Particular description of goods.—Disinfectants.
Claims use since March, 1921.

Ser. No. 181,130. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KEYSTONE MACARONI MANUFACTURING COMPANY, Lebanon, Pa. Filed May 25, 1923.

DAINTY CUP

Particular description of goods.—Macaroni Products.
Claims use since Mar. 1, 1922.

Ser. No. 181,248. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CLOSURE SERVICE CORPORATION, Brooklyn, N. Y. Filed May 28, 1923.

SAVE - A - SEAL

Particular description of goods.—Metal Caps for Bottles and Jars.
Claims use since October, 1921.

Ser. No. 181,265. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed May 28, 1923.

MILLCREST

Particular description of goods.—Muslin in the Piece.
Claims use since Feb. 1, 1923.

Ser. No. 181,278. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL M. HELDFOND, doing business as Heldfond Drug Company and Raymo Company, Portland, Oreg. Filed May 28, 1923.

BORIENT

Particular description of goods.—Liquid Antiseptic.
Claims use since July, 1922.

Ser. No. 181,395. (CLASS 39. CLOTHING.) THE JOHN H. HIBBEN DRY GOODS CO., Cincinnati, Ohio. Filed May 31, 1923.

CARLISLE

CARLISLE H BRAND

BRAND

No claim is made to the use of the word "Brand" apart from the trade-mark shown on the accompanying drawing, applicant reserving all common-law rights thereto.
Particular description of goods.—Hosiery, Knitted Underwear for Men, Women, and Children, and Leather and Fabric Gloves.
Claims use since May 25, 1923.

Ser. No. 181,410. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PERTH AMBOY CHEMICAL WORKS, Perth Amboy, N. J., and New York, N. Y. Filed May 31, 1923.

P. A. C. FORMALDEHYDE

No claim is made to the exclusive use of the word "Formaldehyde" except in association with the rest of the trade-mark.
Particular description of goods.—Formaldehyde.
Claims use since Mar. 1, 1923.

Ser. No. 181,439. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELECTRIC REGULATOR MFG. CORP., New York, N. Y. Filed June 1, 1923.

ERMCO LITE

In the drawing the shading represents color. The letters "ERMCO" and the bordering frame are in gold, the hourglass-shaped background is red, and the lens-shaped segments are blue. The word "Lite" is disclaimed apart from the mark shown.
Particular description of goods.—Compression Rheostats, Lamp Sockets, Electric Flatirons, Motor Controllers, and Rheostats for Radio Use.
Claims use since Apr. 21, 1923.

Ser. No. 181,499. (CLASS 39. CLOTHING.) L. SCHWARTZ & SONS, New York, N. Y. Filed June 2, 1923.

Schwartex

Particular description of goods.—Ladies' Coats and Suits.
Claims use since May 8, 1923.

Ser. No. 181,572. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SHEIP AND VANDEGRIFT, INC., Philadelphia, Pa. Filed June 5, 1923.

MUSICMASTER

Particular description of goods.—Radio Amplifier Horns.
Claims use since Nov. 9, 1922.

Ser. No. 181,628. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) AMERICAN METAL CAP COMPANY, Brooklyn, N. Y. Filed June 7, 1923.

DEXEAL

Particular description of goods.—Metal Caps and Closures.
Claims use since Dec. 1, 1922.

Ser. No. 181,728. (CLASS 33. GLASSWARE.) CHAUFOURAUX GLASS COMPANY, St. Louis, Mo. Filed June 9, 1923.

PIGEON-BRAND



No claim is made to the word "Brand" apart from the mark shown.
Particular description of goods.—Photographic-Dry-Plate Glass and Picture Glass.
Claims use since Jan. 29, 1923.

Ser. No. 181,733. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) ABRAM COX STOVE COMPANY, Philadelphia, Pa. Filed June 9, 1923.

FORTUNE

Particular description of goods.—Gas and Coal Stoves, Ranges, and Furnaces.
Claims use for about 30 years.

Ser. No. 181,857. (CLASS 15. OILS AND GREASES.) NORTHWESTERN BAKERS & CONFECTIONERS CO., Minneapolis, Minn. Filed June 11, 1923. Under ten-year proviso.

Bestyet

Particular description of goods.—Petroleum Oil and Slab Oils, Vegetable and Mineral.
Claims use since Oct. 1, 1893.

Ser. No. 181,914. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SCOFIELD, EVANS AND COMPANY, Chicago, Ill. Filed June 12, 1923.

REPELLOWAX

Particular description of goods.—Liquid Floor Finishing and Maintenance Preparations.
Claims use since May 17, 1923.

Ser. No. 181,917. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) STANDARD CARBON COMPANY, Monroe, La. Filed June 12, 1923.

STANCO

Particular description of goods.—Carbon Black.
Claims use since May 24, 1923.

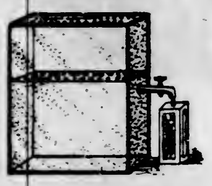
Ser. No. 181,984. (CLASS 39. CLOTHING.) FRANKEL BROS., New York, N. Y. Filed June 14, 1923.

4 "Foresome"

Particular description of goods.—Men's Caps, Sweaters, Shoes of Leather or Combinations of Rubber and Leather, Negligee Shirts, and Hosiery.
Claims use since May 28, 1923.

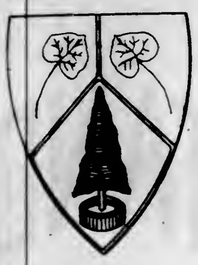
Ser. No. 182,011. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN HAR SAVVAS, New York, N. Y. Filed June 14, 1923.

BESTovOLA



No claim is made to the representation of the oil or the container therefor apart from the mark as shown in the drawing.
Particular description of goods.—Olive Oil.
Claims use since May 7, 1923.

Ser. No. 182,080. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ELEANOR P. VANCE and CHARLOTTE L. YALE, doing business at Tryon Toy-Makers, Tryon, N. C. Filed June 15, 1923.



Particular description of goods.—Children's Toys—Namely, Table Board Games, Dolls, Animals, and Human Figures, Carts, and Toy Furniture.
Claims use since November, 1916.

Ser. No. 182,241. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEE FRASHER, East Lynn, W. Va. Filed June 20, 1923.



Particular description of goods.—Preparation for Use in Treating Diphtheria, Tonsillitis, Sore Throat, Spongy and Bleeding Gums, and Ulcers.
Claims use since May 24, 1923.

Ser. No. 182,250. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUVON LABORATORY, Brooklyn, N. Y. Filed June 20, 1923.

LOUVON

Trade-mark consists of the word "Louvon."
Particular description of goods.—Medicinal Preparation for the Treatment of Burns, Cuts, Insect Bites, Colds in the Head, and Inflammations.
Claims use since June, 1921.

Ser. No. 182,267. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAN JOAQUIN GROCERY CO., Fresno, Calif. Filed June 20, 1923.

SUN-MAID

Particular description of goods.—Sulphur.
Claims use since Jan. 16, 1916.

Ser. No. 182,270. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCHERING & GLATZ, INC., New York, N. Y. Filed June 20, 1923.

MATURIN

Particular description of goods.—Phloridzin Preparation for Diagnostic Purposes.
Claims use since about Feb. 15, 1923.

Ser. No. 182,311. (CLASS 17. TOBACCO PRODUCTS.) JUDGE & NAGLE, Philadelphia, Pa. Filed June 21, 1923.

EL MASTRO



Particular description of goods.—Cigars.
Claims use since Mar. 1, 1923.

Ser. No. 182,321. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN WANAMAKER, NEW YORK, New York, N. Y. Filed June 21, 1923.



Particular description of goods.—Perfumes, Sachets, Toilet Waters, Face Powders, and Talcum Powders.
Claims use since Feb. 5, 1923.

Ser. No. 182,352. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) DUNCAN MACKENZIE'S SONS CO., Trenton, N. J. Filed June 22, 1923.

MACKENITE

Particular description of goods.—Ferrous Metals.
Claims use since Jan. 1, 1923.

Ser. No. 182,353. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MARINETTE ELECTRIC CORPORATION, Marinette, Wis. Filed June 22, 1923.

LITTLE TATTLER

Particular description of goods.—Phones for Use with Radio and Telephone Apparatus.
Claims use since May 1, 1923.

Ser. No. 182,421. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LUBRI-GAITERS LIMITED, Montreal, Quebec, Canada. Filed June 25, 1923.



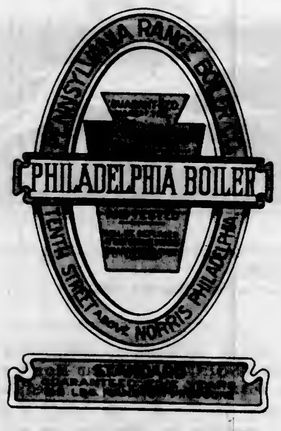
All printed matter appearing in the drawing except the words "Lubri Gaiters" is disclaimed apart from the association in which it is shown. The representation of the goods is also disclaimed.
Particular description of goods.—Casings, Coverings, and Holders for Oil and Grease for Automobile Springs and Automobile Parts.
Claims use since Nov. 1, 1921.

Ser. No. 182,454. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WONDER PORTABLE DISHWASHER COMPANY, Oakland, Calif. Filed June 25, 1923.

"WONDER"

Particular description of goods.—Electrical Dishwashing Machines.
Claims use since Apr. 13, 1920.

Ser. No. 182,484. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) PENNSYLVANIA RANGE BOILER CO., Philadelphia, Pa. Filed June 26, 1923.



The shading in the drawing indicates color, the central keystone being red, the elliptical band being blue with an inner and outer white border, the central horizontal panel being white with a blue border, and the lower horizontal panel being red with a white border. Without waiving any common-law right thereto for the purpose of this registration no claim is made, apart from the

mark shown in the drawing, to the words "Philadelphia Boiler," or to the words "Guaranteed Made of the Best and Most Durable Material and Tested," or to the words "Will be Replaced if Defective During Guaranteed Time," or to the words "Tenth Street Above Norris Philadelphia," or to the words "Standard Guaranteed Five Years 85 lbs. Maximum Pressure."

Particular description of goods.—Range Boilers.
Claims use since May 1, 1923.

Ser. No. 182,486. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SANDRA LABORATORIES, INC., doing business as The Pandora Co., Newark, N. J. Filed June 26, 1923.

WUNDERSKIN

Particular description of goods.—Toilet Preparation in Liquid Form for Use upon the Skin to Remove Oiliness of the Skin and to Hold the Face Powder.
Claims use since May 10, 1923.

Ser. No. 182,491. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL B. ABBOTT, Columbus, Miss. Filed June 27, 1923.

PYOR-REX

Particular description of goods.—Preparation for Use in the Treatment of Pyorrhea.
Claims use since May 1, 1923.

Ser. No. 182,492. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) AMERICAN MAGNESIUM CORPORATION, Niagara Falls, N. Y. Filed June 27, 1923.



Particular description of goods.—Magnesium and Magnesium Alloys.
Claims use since June 13, 1923.

Ser. No. 182,521. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) PACKARD MOTOR CAR COMPANY OF NEW YORK, New York, N. Y. Filed June 27, 1923.

LUCKSTONE

Particular description of goods.—Tire Carriers.
Claims use since 1920.

Ser. No. 182,522. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GENNARO DELLA PORTA, New York, N. Y. Filed June 27, 1923.

SADAS

G.D.P.
SADAS

Particular description of goods.—Liquid Hair Tonic Useful as a Remedy Against the Falling Out of Hair and in the Removal of Dandruff.
Claims use since June 5, 1923.

Ser. No. 182,544. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL J. MALLOY, New York, N. Y. Filed June 28, 1923.

La Mab

Particular description of goods.—Pharmaceutical Preparations.
Claims use since December, 1922.

Ser. No. 182,559. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BAXTER BROS. CO., Brunswick, Me. Filed June 29, 1923.



Particular description of goods.—Canned Vegetables.
Claims use since 1897.

Ser. No. 182,571. (CLASS 12. CONSTRUCTION MATERIALS.) FREDERICKS M. DEERING, Chicago, Ill. Filed June 29, 1923.

EDDIBOARD

Particular description of goods.—Wall Boards.
Claims use since on or about Mar. 1, 1923.

Ser. No. 182,573. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DONNELLY MACHINE CO. INC., Brockton, Mass. Filed June 29, 1923.

DonJee

Particular description of goods.—Electric Flatirons.
Claims use since 1919.

Ser. No. 182,591. (CLASS 17. TOBACCO PRODUCTS.) EDWARD A. KLINE, doing business as E. A. Kline & Co., New York, N. Y. Filed June 29, 1923.

MEDALIST

Particular description of goods.—Tobacco Products—Namely, Cigars, Cigarettes, and Smoking Tobacco.
Claims use since Apr. 25, 1919.

Ser. No. 182,656. (CLASS 39. CLOTHING.) M. FINE & SONS, New York, N. Y. Filed June 30, 1923.

THE FSIX

Particular description of goods.—Work and Negligee Shirts.
Claims use since about June 1, 1922.

Ser. No. 182,658. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HILL MANUFACTURING CO., Lewiston, Me., assignor to Hill Manufacturing Co., Boston, Mass., a Corporation of Massachusetts. Filed June 30, 1923. Under ten-year proviso.

HILL

The mark consists of the word "Hill."
Particular description of goods.—Cotton Piece Goods.
Claims use since 1879.

Ser. No. 182,659. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HILL MANUFACTURING CO., Lewiston, Me., assignor to Hill Manufacturing Co., Boston, Mass., a Corporation of Massachusetts. Filed June 30, 1923. Under ten-year proviso.



Particular description of goods.—Cotton Fabrics.
Claims use since 1856.

Ser. No. 182,669. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE OHIO BRASS COMPANY, Mansfield, Ohio. Filed June 30, 1923.

PREMIER

Particular description of goods.—Ears, Clamps, Hangers, and Brackets for Suspending and Supporting Trolley Wires, Conductors, Cables, and Other Wires.
Claims use since Mar. 24, 1921.

Ser. No. 182,730. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) WESTERN STEEL & CHEMICAL CO. INC., Chicago, Ill. Filed July 2, 1923.

KIDD-E-E-MOP

No claim is made to the word "Mop" apart from the mark shown in the drawing.
Particular description of goods.—Oil Mops.
Claims use since June 9, 1923.

Ser. No. 182,753. (CLASS 39. CLOTHING.) INTERNATIONAL DRY GOODS CO., Boston, Mass. Filed July 3, 1923.

WEAR WELL
GLAYEL

Without waiver of common-law rights the words "Wear Well" are hereby disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Sweaters, Men's Union Suits, Dress Shirts, Men's Flannel Shirts, Men's Balbriggan Shirts, Men's Balbriggan Drawers, Men's

Fleeced Union Suits, Men's Ribbed Union Suits, Boys' Fleeced Union Suits, Boys' Ribbed Union Suits, Ladies' Knitted Vests, Boys' Blouses, Boys' Wash Suits, Children's Waist Union Suits, Misses' Union Suits.

Claims use since May 1, 1920.

Ser. No. 183,000. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CLEVE T. SHAFFER, San Francisco, Calif. Filed July 9, 1923.

"DEK"

Particular description of goods.—A Net Game Similar to Tennis.

Claims use since March, 1922.

Ser. No. 183,014. (CLASS 12. CONSTRUCTION MATERIALS.) THE WAHL REFRACTORY PRODUCTS CO., Fremont, Ohio. Filed July 9, 1923.

HIGH TEMPERATURE WAHL'S CEMENT

No claim is made for "High Temperature Cement" apart from the mark shown by the drawing.

Particular description of goods.—High-Temperature Cement.

Claims use since 1922.

Ser. No. 183,095. (CLASS 12. CONSTRUCTION MATERIALS.) CHICKAMAUGA CEDAR COMPANY, Stevenson, Ala. Filed July 12, 1923.

MATIC BRAND

No claim made to the word "Brand" apart from the other features of the mark shown in the accompanying drawing.

Particular description of goods.—Tennessee Aromatic Red-Cedar Products Manufactured into Rough Lumbers and Finished Lumber for Building Construction.

Claims use since Jan. 1, 1923.

Ser. No. 183,241. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE ACME WIRE COMPANY, New Haven, Conn. Filed July 16, 1923.

CELATSITE

Particular description of goods.—Insulated Electric Wire.

Claims use since June 1, 1923.

Ser. No. 183,255. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN CRAMPTON & CO., LTD., Manchester, England. Filed July 16, 1923.

SILVER ORB

Particular description of goods.—Canned Fish, Preserved Fruits, and Preserved Vegetables.

Claims use since Mar. 31, 1922.

Ser. No. 183,358. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BURNHAM-MUNGER-ROOT DRY GOODS COMPANY, Kansas City, Mo. Filed July 18, 1923.

TOM BOY

Particular description of goods.—Cotton Piece Goods.

Claims use since June 1, 1921.

Ser. No. 183,415. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE STONEWALL COTTON MILLS, Stonewall, Miss. Filed July 18, 1923.

SUMMIT

Particular description of goods.—Chambray, Cheviot, and Denims in the Piece.

Claims use since January, 1922.

Ser. No. 183,430. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE APEX ELECTRICAL MANUFACTURING COMPANY, Cleveland, Ohio. Filed July 19, 1923.

Kook-Rite

Particular description of goods.—Electrical Cookers.

Claims use since Nov. 29, 1922.

Ser. No. 183,469. (CLASS 2. RECEPTACLES.) J. C. DOWD & CO., INC., New York, N. Y. Filed July 20, 1923.

"Ivoroyd"

Particular description of goods.—Receptacles Comprising Pin Trays, Puff Boxes, Powder Boxes, Vanity Boxes, Salve Boxes, Hatpin Holders, Toothbrush Holders, and Clock Holders.

Claims use since 1890.

Ser. No. 183,489. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE W. W. MILDRUM JEWEL CO., East Berlin, Conn. Filed July 20, 1923.

GARNIX

Particular description of goods.—Fishing-Rod Mountings.

Claims use since Apr. 8, 1923.

Ser. No. 183,502. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MAURICE RAPOPORT & CO., New York, N. Y. Filed July 20, 1923.

SPORT CRAFT M R

No claim is made to the representation of the goods appearing on the drawing apart from the mark.

Particular description of goods.—Footballs, Basket Balls, Soccer Balls, Volley Balls, Medicine Balls, Polo Balls, Baseballs, Baseball and Handball Gloves, Handballs, Tennis Balls, Golf Balls, Baseball Bats, Baseball Masks, Baseball Protectors, Baseball Bases, Golf Clubs, Golf Bags, Golf Tees, Tennis Rackets, Tennis Nets, Volley-Ball Nets, Basket-Ball Baskets; Archery Bows, Arrows, Targets, and Cases; Tennis-Racket Covers, Tennis-Racket Presses, Ice and Roller Skates, Hockey Sticks, Inflaters; Football, Basket-Ball, and Soccer-Ball Carrying Cases; Shoulder, Combination, Hip, and Elbow Pads; Thigh Guards, Whistles, Head Harnesses, Nose Masks, Mouthpieces, Football Gloves, Tackling Machines and Tackling Dummies, Thumb Protectors, Basket-Ball Pads, Megaphones, Shin Guards, Hockey Goals, Hockey Gloves, Snowshoes, Toboggans, Skis; Athletic Hammers, Shots, Weights, Discuses, Javelins, Hurdles; Vaulting Poles, Jump Standards, Take-Off Boards; Ball-Stop Nets; Polo Sticks, Squash Rackets, Squash Tennis Balls, Boxing Gloves, Striking Bags, Striking-Bag Mitts, Striking-Bag Swivels, Striking-Bag Disks; Fencing Foils, Masks, and Plastrons; Foil Gloves, Rowing Machines, Chest-Weight Machines, Exercising Machines, Dumb-Bells, Indian Clubs, Bowling Pins and Balls, Hockey Goals, Lacrosse Sticks and Goals, Hurley Sticks and Balls, Quoits, Cricket Bats and Balls, Polo Goal Posts, Croquet Sets, Tennis Posts and Markers, Batting Cages, and Ball Bladders.

Claims use since June 15, 1923.

Ser. No. 183,554. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GUY A. COMBS, doing business as Standard Paint Manufacturing Co., Minneapolis, Minn. Filed July 23, 1923.

Collie

Particular description of goods.—Ready-Mixed Paints, Varnishes, Paint Enamels, and Stains.

Claims use since July 1, 1920.

Ser. No. 183,563. (CLASS 17. TOBACCO PRODUCTS.) J. G. FLYNT TOBACCO CO., Winston-Salem, N. C. Filed July 23, 1923.

THE PRIDE OF WINSTON

Particular description of goods.—Smoking and Chewing Tobacco.

Claims use since 1910.

Ser. No. 183,954. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) AMERICAN WHOLESALE CORPORATION (BALTIMORE BARGAIN HOUSE), Baltimore, Md. Filed Aug. 2, 1923.

ABSORBO

Particular description of goods.—Sanitary Napkins.

Claims use since July 1, 1923.

Ser. No. 183,994. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) REPUBLIC IRON & STEEL COMPANY, Youngstown, Ohio. Filed Aug. 2, 1923.

REPUBLIC STEEL

Particular description of goods.—Iron and Steel in the Form of Pig Iron, Ingots, Blooms, Billets, Slabs, Bars, Shapes, and Sheets.

Claims use since Apr. 16, 1923.

Ser. No. 183,995. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GROVER C. SCOTT, Pittsburgh, Pa. Filed Aug. 2, 1923.

"DURA-LITE"

Particular description of goods.—Paste Pigment in Oil.
Claims use since July, 1922.

Ser. No. 184,088. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) METALON PRODUCTS CORPORATION, New York, N. Y. Filed Aug. 4, 1923.

METALON

Particular description of goods.—Metal Paint, Metal Lacquer, Metal Powder, and Metal Casting Composition.
Claims use since Feb. 5, 1923.

Ser. No. 184,148. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PEPSIN SYRUP CO., Monticello, Ill. Filed Aug. 6, 1923.

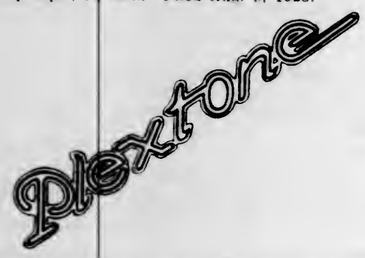
DR. W. B. CALDWELL'S



LAXO-PEP-SEN

The portrait appearing on the drawing is that of Dr. W. B. Caldwell.
Particular description of goods.—Preparation for the Treatment of Digestive Disorders.
Claims use since July 16, 1923.

Ser. No. 184,251. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) JOHN OLOF LINDEN, Albuquerque, N. Mex. Filed Aug. 9, 1923.



Trade-mark consists of the word "Plextone."
Particular description of goods.—Massage Appliance.
Claims use since June 15, 1923.

Ser. No. 184,285. (CLASS 15. OILS AND GREASES.) THE KENTUCKY INDEPENDENT OIL COMPANY, Covington, Ky. Filed Aug. 10, 1923.

GOLDEN ROD

Particular description of goods.—Lubricating Motor Oil.
Claims use since July, 1911.

Ser. No. 184,300. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAN DIMAS LEMON ASSOCIATION, San Dimas, Calif. Filed Aug. 10, 1923.

HARMONY



The representation of the girl shown in the drawing is merely fanciful and is not the picture of any living person.
Particular description of goods.—Fresh Citrons Fruits.
Claims use since Nov. 9, 1904.

Ser. No. 184,309. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed Aug. 10, 1923.

OMEGA

Particular description of goods.—Cylinder Oil.
Claims use since May, 1907.

Ser. No. 184,342. (CLASS 17. TOBACCO PRODUCTS.) LINCOLN BROTHERS, New York, N. Y. Filed Aug. 11, 1923.

MONTE CRISTO



Particular description of goods.—Cigars.
Claims use since about 1870.

Ser. No. 184,403. (CLASS 15. OILS AND GREASES.) C. C. JULIAN, Los Angeles, Calif. Filed Aug. 13, 1923.

C. C.

Particular description of goods.—Gasoline, Lubricating Oils, and Greases.
Claims use since July 26, 1923.

Ser. No. 184,404. (CLASS 15. OILS AND GREASES.) C. C. JULIAN, Los Angeles, Calif. Filed Aug. 13, 1923.

C. C. J's

Particular description of goods.—Gasoline, Lubricating Oils, and Greases.
Claims use since July 26, 1923.

Ser. No. 184,436. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. H. CORSE, Jr., doing business as George H. Corse, Jr., & Co., San Francisco, Calif. Filed Aug. 14, 1923.

CALCAN

Particular description of goods.—Canned Fruits.
Claims use since June 1, 1923.

Ser. No. 184,441. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE EMPORIUM, San Francisco, Calif. Filed Aug. 14, 1923.

THE Golden Gate

Particular description of goods.—Hair Nets.
Claims use since Mar. 3, 1922.

Ser. No. 184,488. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE AMERICAN CRAYON COMPANY, Sandusky, Ohio. Filed Aug. 15, 1923. Under ten-year proviso.

Prang

Particular description of goods.—Water Colors.
Claims use since about 1870.

Ser. No. 184,493. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CANTOL WAX COMPANY, Bloomington, Ind. Filed Aug. 15, 1923.

Cantol

Particular description of goods.—Wax Polishes (Liquid, Paste, and Solid.)
Claims use since 1914.

Ser. No. 184,499. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOLT MANUFACTURING CO., Paterson, N. J. Filed Aug. 15, 1923.



Sunrise Mills

The parts of the mark shown lined for color are orange. No claim is made to the words "Paterson, New Jersey" apart from the mark shown on the drawing.
Particular description of goods.—Terry Toweling.
Claims use since May 22, 1923.

Ser. No. 184,601. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE S. A. DAY MANUFACTURING COMPANY, Buffalo, N. Y. Filed Aug. 17, 1923.

GARDCO

Particular description of goods.—Paints and Anticorrosive Solutions for Preserving Iron, Steel, and Other Metals.
Claims use since Aug. 15, 1923.

Ser. No. 184,602. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) N. E. DEAN, Courtland, Calif. Filed Aug. 17, 1923.

MARKET

Particular description of goods.—Fresh Deciduous Fruits—Namely, Fresh Pears.
Claims use since Apr. 28, 1923.

Ser. No. 184,620. (CLASS 15. OILS AND GREASES.) PAN AMERICAN PETROLEUM & TRANSPORT COMPANY, Wilmington, Del. Filed Aug. 17, 1923.



Particular description of goods.—Gasoline.
Claims use since June 25, 1923.

Ser. No. 184,698. (CLASS 43. THREAD AND YARN.) BERNHARD ULMANN CO., INC., New York, N. Y. Filed Aug. 18, 1923.


BEAR BRAND

No claim made to the word "Brand" apart from the mark shown.
Particular description of goods.—Yarns and Threads of Wool, Worsted, Cotton, Silk, Artificial Silk, or of Combinations Thereof Useful for Art Needlework, Knitting, Crocheting, Embroidery, Weaving, Braiding, and Sewing.
Claims use since November, 1873.

Ser. No. 184,889. (CLASS 37. PAPER AND STATIONERY.) ALBANY PERFORATED WRAPPING PAPER CO., Albany, N. Y. Filed Aug. 23, 1923.



Particular description of goods.—Toilet Paper and Paper Towels.
Claims use since Apr. 28, 1923.

Ser. No. 184,890. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) ALBERT BANDMAN, doing business as Metsan Dental Mfg. Co., New York, N. Y. Filed Aug. 23, 1923.



Particular description of goods.—Hypodermic Needles.
Claims use since Aug. 20, 1923.

Ser. No. 185,021. (CLASS 17. TOBACCO PRODUCTS.) JAEGER-KUNNERT CO., also doing business as H. W. Glasser Tobacco Products Co., Dubuque, Iowa. Filed Aug. 27, 1923.

HAPPY DAY

Particular description of goods.—Smoking and Chewing Tobacco.
Claims use since July 14, 1923.

Ser. No. 185,257. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) NEPTUNE PRODUCTS COMPANY, New York, N. Y. Filed Sept. 1, 1923.

Neptune

Particular description of goods.—Belt for Prevention of Nausea.
Claims use since Aug. 30, 1923.

Ser. No. 185,302. (CLASS 17. TOBACCO PRODUCTS.) MILBY W. LLOYD, doing business as Lloyd Tobacco Company, Ocala, Fla. Filed Sept. 4, 1923.

TAMPA CHUMS

Particular description of goods.—Cigars.
Claims use since June, 1923.

Ser. No. 185,380. (CLASS 7. CORDAGE.) JOHN A. ROEBLING'S SONS CO., Trenton, N. J. Filed Sept. 6, 1923.

METALIDE

Trade-mark consists of the word "Metalide" for wire rope.
Particular description of goods.—Wire Rope.
Claims use since June, 1923.

Ser. No. 185,387. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) I. STERN & CO., New York, N. Y. Filed Sept. 6, 1923.

ARROW-HEAD

Particular description of goods.—Lingual Bars.
Claims use since May 3, 1923.

Ser. No. 185,583. (CLASS 7. CORDAGE.) HIGHLAND CORDAGE COMPANY, Highland and Hickory, N. C. Filed Sept. 10, 1923.

Biltmore

Particular description of goods.—Cords, Twines, Ropes, and Lines of Fiber Material Made From Cotton, Hemp, Manila, Sisal, or Jute, Said Lines Being of the Nature of Clotheslines.
Claims use since June 1, 1923.

Ser. No. 185,593. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) J. F. JELENKO & CO., New York, N. Y. Filed Sept. 10, 1923.

ALBORO

Particular description of goods.—Dental Golds, Solders, Plates, Disks, Backings, Shells, Inlays, Clasps, and Wire.
Claims use since Aug. 20, 1923.

Ser. No. 185,623. (CLASS 37. PAPER AND STATIONERY.) SCOTT PAPER COMPANY, Chester, Pa. Filed Sept. 10, 1923.

S·P·C

Particular description of goods.—Toilet Paper.
Claims use since March, 1907.

Ser. No. 185,633. (CLASS 37. PAPER AND STATIONERY.) TOWNLEY METAL AND HARDWARE COMPANY, Kansas City, Mo. Filed Sept. 10, 1923.

T. M. C.

Particular description of goods.—Carpenters' Pencils.
Claims use since Jan. 1, 1902.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

OCTOBER 23, 1923.

174,550. PLUMBING FIXTURES MADE OF BRASS. ACHESON MANUFACTURING COMPANY, Rankin, Pa.
Filed May 2, 1922. Serial No. 163,211. PUBLISHED JULY 24, 1923.

174,551. ROOFING MATERIALS—NAMELY SHINGLES, ROOFING, FIBER COATING, FIBER CEMENT, HOUSE LINING, ASPHALT FELT, ASPHALT COMPOUND, ROSIN PAPER, PLASTER BOARD, AND TARRED FELT. OERTEL ROOFING MANUFACTURING COMPANY, now by change of name Stormcote Roofing Corporation, East St. Louis, Ill.
Filed April 17, 1922. Serial No. 162,442. PUBLISHED JULY 17, 1923.

174,552. CASINGS AND TIRES MADE WHOLLY OR PARTLY OF RUBBER. THE FEDERAL RUBBER COMPANY OF ILLINOIS, Chicago, Ill., and Cudahy, Wis.
Filed March 29, 1922. Serial No. 161,420. PUBLISHED OCTOBER 31, 1922.

174,553. CASINGS AND TIRES MADE WHOLLY OR PARTLY OF RUBBER. THE FEDERAL RUBBER COMPANY OF ILLINOIS, Chicago, Ill., and Cudahy, Wis.
Filed March 29, 1922. Serial No. 161,419. PUBLISHED OCTOBER 31, 1922.

174,554. CASINGS AND TIRES MADE WHOLLY OR PARTLY OF RUBBER. THE FEDERAL RUBBER COMPANY OF ILLINOIS, Chicago, Ill., and Cudahy, Wis.
Filed March 29, 1922. Serial No. 161,418. PUBLISHED OCTOBER 31, 1922.

174,555. CASINGS AND TIRES MADE WHOLLY OR PARTLY OF RUBBER. THE FEDERAL RUBBER COMPANY OF ILLINOIS, Chicago, Ill., and Cudahy, Wis.
Filed March 29, 1922. Serial No. 161,417. PUBLISHED OCTOBER 31, 1922.

174,556. CASINGS AND TIRES MADE WHOLLY OR PARTLY OF RUBBER. THE FEDERAL RUBBER COMPANY OF ILLINOIS, Chicago, Ill., and Cudahy, Wis.
Filed March 29, 1922. Serial No. 161,416. PUBLISHED OCTOBER 31, 1922.

174,557. SIGNS MADE OF METAL AND CELLULOID. BROWN & BIGELOW, St. Paul, Minn.
Filed March 16, 1922. Serial No. 160,745. PUBLISHED JULY 17, 1923.

174,558. FIRE AND OTHER BRICK OF SUBSTANTIALLY UNIFORM DIMENSIONS AND FOR USE OTHER THAN ARCH-BUILDING PURPOSES. AMERICAN ARCH COMPANY, New York, N. Y.
Filed February 7, 1922. Serial No. 158,967. PUBLSHED JULY 17, 1923.

174,559. PILLOWS CONTAINING FEATHERS. L. LOWENSTEIN & SON, doing business as National Feather & Pillow Company, Nashville, Tenn.
Filed January 4, 1922. Serial No. 157,491. PUBLISHED JULY 3, 1923.

174,560. TOILET PAPER. DIAMOND MILLS PAPER COMPANY, New York, N. Y.
Filed May 31, 1923. Serial No. 181,387. PUBLISHED JULY 24, 1923.

174,561. DISH, BOTTLE, AND POT MOPS. THE CHORE-UTENSILS CORPORATION OF AMERICA, Orange, N. J.
Filed May 31, 1923. Serial No. 181,380. PUBLISHED JULY 24, 1923.

174,562. REFRIGERATORS. UNIVERSE CORPORATION, Chicago, Ill.
Filed May 25, 1923. Serial No. 181,156. PUBLISHED JULY 24, 1923.

174,563. HYDRAULIC SHOCK ABSORBERS FOR AUTOMOBILES. LOVEJOY MANUFACTURING COMPANY, Boston, Mass.
Filed March 7, 1923. Serial No. 177,091. PUBLISHED JULY 17, 1923.

174,564. ARTIFICIAL PEARLS. HYMAN LEVITAN, Boston, Mass.
Filed March 12, 1923. Serial No. 177,306. PUBLISHED JULY 10, 1923.

174,565. WATCHCASES. JOSEPH FAHYS & COMPANY, New York, N. Y.
Filed March 17, 1923. Serial No. 177,597. PUBLISHED JUNE 19, 1923.

174,566. BATTERIES AND CERTAIN NAMED BATTERY PARTS AND SUPPLIES. PHILADELPHIA STORAGE BATTERY CO., Philadelphia, Pa.
Filed March 17, 1923. Serial No. 177,617. PUBLISHED JULY 10, 1923.

174,567. CERTAIN NAMED ELECTRICAL APPARATUS. JOHN ECKELKAMP, doing business as Parkview Electric Company, St. Louis, Mo.
Filed March 19, 1923. Serial No. 177,689. PUBLISHED JULY 10, 1923.

174,568. COAL AND GAS COMBINATION RANGES AND BROILERS AND WARMING CLOSETS FOR HOTELS, RESTAURANTS, STEAMSHIPS, AND INSTITUTIONS. W. F. DOUGHERTY & SONS, INCORPORATED, Philadelphia, Pa.
Filed March 21, 1923. Serial No. 177,774. PUBLISHED JULY 17, 1923.

174,569. RUBBER AND FABRIC TIRES. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Wilmington, Del., and Chicago, Ill.
Filed March 24, 1923. Serial No. 177,952. PUBLISHED JULY 24, 1923.

174,570. BRACELETS AND EARRINGS. COHN & ROSENBERGER, INC., New York, N. Y.
Filed March 29, 1923. Serial No. 178,224. PUBLISHED JULY 10, 1923.

174,571. LEATHER USED IN MANUFACTURING AND REPAIRING SHOES. ARTHUR A. WILLIAMS, doing business as Arthur Williams Shoe Company, Holliston, Mass.
Filed March 31, 1923. Serial No. 178,421. PUBLISHED JULY 17, 1923.

174,572. RENNET EXTRACT, RENNET TABLETS, AND LACTIC-ACID FERMENT. LEVRING & COMPANY, INC., St. Louis, Mo.
Filed April 2, 1923. Serial No. 178,450. PUBLISHED JULY 24, 1923.

174,573. POWER AND HAND OPERATED WASHING MACHINES. POOLE ENGINEERING AND MACHINE COMPANY, Baltimore and Woodberry, Baltimore, Md.
Filed April 20, 1923. Serial No. 179,428. PUBLISHED JUNE 12, 1923.

174,574. LIQUID PREPARATION FOR KEEPING CURL IN HAIR. LE ROYE, LTD., Chicago, Ill.
Filed April 23, 1923. Serial No. 179,541. PUBLISHED July 24, 1923.

174,575. TOILET PAPER. THE PEERLESS MFG. CO., Norristown, Pa.
Filed April 25, 1923. Serial No. 179,678. PUBLISHED JULY 10, 1923.

174,576. ICE CREAM. GEO. K. BROWN CO., INC., Chattanooga, Tenn.
Filed May 27, 1922. Serial No. 164,576. PUBLISHED JULY 17, 1923.

174,577. CERTAIN NAMED ELECTRIC-LIGHTING FIXTURES. B. & L. METAL STAMPING CO., INC., New York, N. Y.
Filed May 25, 1922. Serial No. 164,489. PUBLISHED JULY 24, 1923.

174,578. COAL. REEVES COAL AND DOCK CO., Minneapolis, Minn.
Filed May 20, 1922. Serial No. 164,194. PUBLISHED JULY 17, 1923.

174,579. EDIBLE VEGETABLE FATS AND OILS. GEORGE WILLIAM KING, Boston, Mass.
Filed May 19, 1922. Serial No. 164,111. PUBLISHED JULY 24, 1923.

174,580. CERTAIN NAMED PAPER AND STATIONERY. WILLIAM H. JOHNSON, New York, N. Y., assignor to The Tin Decorating Company of Baltimore, Baltimore Md., a Corporation of New Jersey.
Filed May 17, 1922. Serial No. 163,987. PUBLISHED JULY 24, 1923.

174,581. COATED GLASS PLATES FOR ETCHING, DRAWING, AND HAND NEGATIVES. GRAPHOTO COMPANY, Boston, Mass.
Filed May 5, 1922. Serial No. 163,387. PUBLISHED JULY 24, 1923.

174,582. ELECTRIC BATTERIES. NEPTUNE BATTERY CO., New York, N. Y.
Filed May 3, 1922. Serial No. 163,283. PUBLISHED SEPTEMBER 26, 1922.

174,583. HOSIERY, SLEEPING GARMENTS, BIBS, AND APRONS. FRED A. WISH, INCORPORATED, New York, N. Y.
Filed May 14, 1923. Serial No. 180,642. PUBLISHED JULY 24, 1923.

174,584. LADIES' AND MISSES' COATS AND SUITS. ZIESER & KLING, St. Louis, Mo.
Filed May 14, 1923. Serial No. 180,643. PUBLISHED JULY 24, 1923.

174,585. DRESS, NEGLIGEE, AND WORK SHIRTS, NIGHTGOWNS, AND PYJAMAS. CARLETON DRY GOODS COMPANY, St. Louis, Mo.
Filed May 14, 1923. Serial No. 180,585. PUBLISHED JULY 24, 1923.

174,586. SWEATER COATS. CADET KNITTING COMPANY, Philadelphia, Pa.
Filed May 10, 1923. Serial No. 180,417. PUBLISHED JULY 24, 1923.

174,587. RADIO DETECTOR AND AMPLIFIER TUBES. O. & T. ELECTRIC CORPORATION, New York, N. Y.
Filed May 7, 1923. Serial No. 180,293. PUBLISHED JULY 24, 1923.

174,588. WORSTED YARN FABRIC KNOWN IN THE TEXTILE INDUSTRY AS "REPS." BOTANY WORSTED MILLS, Passaic, N. J.
Filed May 1, 1923. Serial No. 179,989. PUBLISHED JULY 24, 1923.

174,589. HAIR NETS. WEST ELECTRIC HAIR CURLER COMPANY, Philadelphia, Pa.
Filed April 27, 1923. Serial No. 179,838. PUBLISHED JULY 24, 1923.

174,590. BUMPERS. THE C. G. SPRING COMPANY, Kalamazoo, Mich.
Filed April 26, 1923. Serial No. 179,707. PUBLISHED JULY 17, 1923.

174,591. BUMPERS. THE C. G. SPRING COMPANY, Kalamazoo, Mich.
Filed April 26, 1923. Serial No. 179,706. PUBLISHED JULY 17, 1923.

174,592. BUMPERS. THE C. G. SPRING COMPANY, Kalamazoo, Mich.
Filed April 26, 1923. Seial No. 179,705. PUBLISHED JULY 17, 1923.

174,593. ELECTRIC-LAMP FIXTURES, ELECTRIC MOTORS, AND ELECTRIC FANS. THE NATIONAL SCREW AND MANUFACTURING COMPANY, Cleveland, Ohio.
Filed April 20, 1923. Serial No. 179,418. PUBLISHED JULY 24, 1923.

174,594. RADIO HEAD SETS, RADIODETECTORS, RADIO RECEIVING SETS, RADIOCRYSTALS, RADIO LOUD-SPEAKER UNITS, RADIOCOILS, VARIOMETERS, CONDENSERS, AND ANTENNAS. L. S. BRACH MANUFACTURING CO., Newark, N. J.
Filed April 10, 1923. Serial No. 178,892. PUBLISHED JULY 24, 1923.

174,595. AUTOMOBILE ACCESSORIES — NAMELY, GLARE SHIELDS, SAME BEING A METAL BRACKET ADJUSTINGLY SUPPORTING TINTED GLASS TO NEUTRALIZE THE GLARE FROM APPROACHING HEADLIGHTS. HAINES MANUFACTURING CORPORATION, Rochester, N. Y.
Filed April 9, 1923. Serial No. 178,841. PUBLISHED JULY 17, 1923.

174,596. CERTAIN TEXTILE MATERIAL. THE WARREN PRODUCTS COMPANY, INC., New York, N. Y.
Filed April 6, 1923. Serial No. 178,685. PUBLISHED JULY 24, 1923.

174,597. SHEATHING PAPER, WATERPROOF BUILDING PAPER, ROOFING PAPER, TAR FELT, AND ASPHALT SHINGLES. HIGHLAND LAKE PAPER COMPANY, Walpole, Mass.
Filed April 5, 1923. Serial No. 178,611. PUBLISHED JULY 17, 1923.

174,598. CEMENT AND CONCRETE BLOCKS, BRICKS, AND BUILDING UNITS. ROBERT E. WHITE, Absecon, N. J.
Filed March 28, 1923. Serial No. 178,200. PUBLISHED JULY 17, 1923.

174,599. CERTAIN NAMED RADIO SIGNALING APPARATUS. CENTRAL RADIO LABORATORIES, Milwaukee, Wis.
Filed March 28, 1923. Serial No. 178,164. PUBLISHED JULY 24, 1923.

174,600. INSULATED WIRE AND CABLES. THE KERITE INSULATED WIRE & CABLE COMPANY, INC., Seymour, Conn., and New York, N. Y.
Filed March 27, 1923. Serial No. 178,106. PUBLISHED JULY 24, 1923.

174,601. SALT CODFISH. GORTON-PEW FISHERIES COMPANY, Gloucester, Mass.
Filed March 23, 1923. Serial No. 177,910. PUBLISHED JULY 24, 1923.

174,602. COFFEE. WILSON TEA CO., INC., Seattle, Wash.
Filed March 22, 1923. Serial No. 177,885. PUBLISHED JULY 24, 1923.

174,603. PAPER WEIGHTS AND DESK ORNAMENTS. ARTHUR VOS, New York, N. Y.
Filed March 15, 1923. Serial No. 177,530. PUBLISHED JULY 24, 1923.

174,604. SPRING COVERS AND GREASE BOOTS. DAVID FEINBERG COMPANY, doing business as Snappee Co., Chelsea, Mass.
Filed March 12, 1923. Serial No. 177,286. PUBLISHED JULY 17, 1923.

174,605. COLLECTION OF MOTTO CARDS. HERBERT E. HUGHES, Cincinnati, Ohio.
Filed March 8, 1923. Serial No. 177,127. PUBLISHED JUNE 12, 1923.

174,606. TITLE OF MONTHLY MAGAZINE. DAVID SMART, Chicago, Ill.
Filed March 7, 1923. Serial No. 177,112. PUBLISHED JUNE 19, 1923.

174,607. CANNED CRAB MEAT. TAIYO TRADING CO., INC., New York, N. Y.
Filed February 24, 1923. Serial No. 176,580. PUBLISHED JULY 24, 1923.

174,608. USED AND SECONDHAND MOTOR VEHICLES. STERRETT & FLEMING, INCORPORATED, Washington, D. C.
Filed February 20, 1923. Serial No. 176,369. PUBLISHED JULY 17, 1923.

174,609. COTTONSEED OIL FOR FRYING, COOKING, SALADS, SHORTENING, AND MAYONNAISE. THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J.
Filed February 16, 1923. Serial No. 176,106. PUBLISHED JULY 24, 1923.

174,610. DENTAL SPOTLIGHTS AND LAMPS FOR THE SAME. THE S. S. WHITE DENTAL MANUFACTURING COMPANY, Philadelphia, Pa.
Filed May 3, 1923. Serial No. 180,158. PUBLISHED JULY 24, 1923.

174,611. HACK SAWS. THE -B-X- SAW CO., Boston, Mass.
Filed April 28, 1923. Serial No. 179,843. PUBLISHED JULY 24, 1923.

174,612. INFANTS' HOSE. HUB HOSIERY MILLS, Boston, Mass.
Filed April 26, 1923. Serial No. 179,730. PUBLISHED JULY 24, 1923.

174,613. LUBRICATING OILS. WOLVERINE LUBRICANTS CO. OF NEW YORK, New York, N. Y.
Filed April 21, 1923. Serial No. 179,504. PUBLISHED JULY 24, 1923.

174,614. PUNCHING-BAG PLATFORMS AND PUNCHING-BAG APPARATUS. WHITELY EXERCISER COMPANY, New York, N. Y.
Filed April 13, 1923. Serial No. 179,121. PUBLISHED JULY 31, 1923.

174,615. STOVES, BAKING AND ANNEALING OVENS, HEATERS, COOKSTOVES, AND FURNACES. CHARLES E. ADAMSON, Wabash, Ind.
Filed April 14, 1923. Serial No. 179,125. PUBLISHED JULY 24, 1923.

174,616. A POLISHING COMPOSITION. A. P. MUNNING & CO., Matawan, N. J.
Filed April 16, 1923. Serial No. 179,214. PUBLISHED JULY 24, 1923.

174,617. WARM-AIR FURNACES. RICHARDSON & BOYNTON CO., New York, N. Y.
Filed April 16, 1923. Serial No. 179,222. PUBLISHED JULY 24, 1923.

174,618. DRY-POWDER TUBE FIRE EXTINGUISHER. HARRY ST. JOHN COOKE, doing business as Presto Fire Extinguisher Company, Beacon, N. Y.
Filed April 18, 1923. Serial No. 179,295. PUBLISHED JULY 24, 1923.

174,619. ELASTIC VEHICLE TIRES. THE NORWALK TIRE & RUBBER COMPANY, Norwalk, Conn.
Filed April 18, 1923. Serial No. 179,315. PUBLISHED JULY 31, 1923.

174,620. PRINTING INKS. COMMONWEALTH COLOR & CHEMICAL CO., Brooklyn, N. Y.
Filed April 19, 1923. Serial No. 179,357. PUBLISHED JULY 24, 1923.

174,621. SCARFS, NECKTIES, CRAVATS, AND REEFERS. C. STERN & MAYER, INC., New York, N. Y.
Filed April 20, 1923. Serial No. 179,436. PUBLISHED AUGUST 7, 1923.

174,622. SCARFS, NECKTIES, CRAVATS, AND REEFERS. C. STERN & MAYER, INC., New York, N. Y.
Filed April 20, 1923. Serial No. 179,437. PUBLISHED AUGUST 7, 1923.

174,623. TOMATO PASTE. WESTERN SAUSAGE & PROVISION CO., INC., New York, N. Y.
Filed April 20, 1923. Serial No. 179,442. PUBLISHED JULY 31, 1923.

174,624. FRESH DECIDUOUS FRUITS. COLFAX FRUIT GROWERS ASSN., Colfax, Calif.
Filed April 21, 1923. Serial No. 179,459. PUBLISHED JULY 31, 1923.

174,625. DRIED FRUITS AND CANNED FRUITS AND VEGETABLES. O. A. HARLAN & CO., San Jose, Calif.
Filed April 21, 1923. Serial No. 179,469. PUBLISHED JULY 31, 1923.

174,626. CANDY. ALTON L. MILLER, doing business as Charles N. Miller Co., Boston, Mass.
Filed April 21, 1923. Serial No. 179,479. PUBLISHED JULY 31, 1923.

174,627. PHONOGRAPHS AND PARTS THEREOF. ROSEN & LISTENGART, Brooklyn, N. Y.
Filed April 23, 1923. Serial No. 179,558. PUBLISHED JULY 24, 1923.

174,628. SOAP. A. F. WASSERMAN, Memphis, Tenn.
Filed April 23, 1923. Serial No. 179,574. PUBLISHED JULY 24, 1923.

174,629. COFFEE. J. ZINSMEISTER & SONS, INCORPORATED, Louisville, Ky.
Filed April 23, 1923. Serial No. 179,577. PUBLISHED JULY 31, 1923.

174,630. SALTED ALMONDS. CALIFORNIA ALMOND PACKERS, INC., Sacramento and North Sacramento, Calif.
Filed April 24, 1923. Serial No. 179,585. PUBLISHED JULY 31, 1923.

174,631. SILK PIECE GOODS. EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y.
Filed April 25, 1923. Serial No. 179,663. PUBLISHED JULY 31, 1923.

174,632. WATCHES, WATCH MOVEMENTS, AND PARTS THEREOF. JOSEPH GOTTLIEB, New York, N. Y.
Filed April 25, 1923. Serial No. 179,665. PUBLISHED JULY 24, 1923.

174,633. SMOKED HAMS AND BACON. PATRICK-YOUNG COMPANY, also doing business as Boyd Packing Company, Richmond, Va.
Filed April 25, 1923. Serial No. 179,677. PUBLISHED JULY 31, 1923.

174,634. WOOLEN KNITTED FABRICS. CONTINENTAL MILLS, INC., Philadelphia and Germantown, Pa.
Filed June 9, 1923. Serial No. 181,731. PUBLISHED AUGUST 7, 1923.

174,635. WOOLEN FABRICS IN THE PIECE. CONTINENTAL MILLS, INC., Philadelphia and Germantown, Pa.
Filed June 9, 1923. Serial No. 181,732. PUBLISHED AUGUST 7, 1923.

174,636. CERTAIN NAMED FABRICS. KNITTED TEXTILES CORPORATION, Allentown, Pa.
Filed June 9, 1923. Serial No. 181,752. PUBLISHED AUGUST 7, 1923.

174,637. SIRUPS AND EXTRACTS FOR SOFT DRINKS. THE MURRAY COMPANY, Boston, Mass.
Filed May 22, 1923. Serial No. 180,983. PUBLISHED JULY 31, 1923.

174,638. TABLE BOARD GAME. BLOCK-WALSH CORPORATION, New York, N. Y.
Filed May 23, 1923. Serial No. 181,010. PUBLISHED JULY 31, 1923.

174,639. TOOLS, AND PARTICULARLY FOR RAIL-ANCHOR WRENCHES. CANTON FORGE & AXLE COMPANY, Canton, Ohio.
Filed May 24, 1923. Serial No. 181,059. PUBLISHED JULY 31, 1923.

174,640. WASHING COMPOUND. JUSTA MFG. CO., Hugo, Okla.
Filed May 25, 1923. Serial No. 181,125. PUBLISHED JULY 24, 1923.

174,641. DOLLS AND ANIMALS CUT-OUTS. GEORGE LUND, doing business as George Lund Company, New York, N. Y.
Filed May 25, 1923. Serial No. 181,134. PUBLISHED JULY 31, 1923.

174,642. PREPARATION FOR USE IN THE TREATMENT OF HOG CHOLERA AND A PREPARATION FOR USE AS A VERMIFUGE. JOHN M. BOWMAN, Lanark, Ill.
Filed May 26, 1923. Serial No. 181,172. PUBLISHED JULY 31, 1923.

174,643. READY-MIXED PAINTS FOR INTERIOR SURFACES. CERTAIN-TEED PRODUCTS CORPORATION, Baltimore, Md., and St. Louis, Mo.
Filed May 26, 1923. Serial No. 181,174. PUBLISHED JULY 31, 1923.

174,644. MEN'S AND YOUTHS' OVERCOATS, RAINCOATS, SUIT COATS, SUITS, VESTS, AND TROUSERS. ALTA CLOTHING COMPANY, Boston, Mass.
Filed May 28, 1923. Serial No. 181,234. PUBLISHED AUGUST 7, 1923.

174,645. WOOL AND WOOL AND SILK MIXTURE YARNS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed May 28, 1923. Serial No. 181,262. PUBLISHED AUGUST 7, 1923.

174,646. MUSLIN IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed May 28, 1923. Serial No. 181,263. PUBLISHED AUGUST 7, 1923.

174,647. WOOL AND WOOL AND SILK MIXTURE YARNS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed May 28, 1923. Serial No. 181,266. PUBLISHED AUGUST 7, 1923.

174,648. WOOL AND WOOL AND SILK MIXTURE YARNS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed May 28, 1923. Serial No. 181,268. PUBLISHED AUGUST 7, 1923.

174,649. UNDERFEED STOKERS. SANFORD RILEY STOKER COMPANY, Worcester, Mass.
Filed May 28, 1923. Serial No. 181,314. PUBLISHED JULY 24, 1923.

174,650. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. UNITED MILLS COMPANY, INC., Louisville, Ky.
Filed May 28, 1923. Serial No. 181,325. PUBLISHED AUGUST 7, 1923.

174,651. WATCHES. A. WITTNAUER CO., New York, N. Y.
Filed May 28, 1923. Serial No. 181,327. PUBLISHED JULY 24, 1923.

174,652. SHEET GLASS. L. J. HOUZE CONVEX GLASS COMPANY, Point Marion, Pa.
Filed May 31, 1923. Serial No. 181,398. PUBLISHED JULY 31, 1923.

174,653. GASOLINE. INDUSTRIAL OIL CO. INC., East Providence, R. I.
Filed June 1, 1923. Serial No. 181,447. PUBLISHED JULY 31, 1923.

174,654. SILK PIECE GOODS. WECHSLER BARBER SILK COMPANY, INC., New York, N. Y.
Filed June 2, 1923. Serial No. 181,506. PUBLISHED AUGUST 7, 1923.

174,655. COTTON PIECE GOODS. WILTON MANUFACTURING COMPANY, INC., New York, N. Y.
Filed June 2, 1923. Serial No. 181,507. PUBLISHED AUGUST 7, 1923.

174,656. TRANSMISSION OILS AND GREASES. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif.
Filed June 4, 1923. Serial No. 181,547. PUBLISHED JULY 31, 1923.

174,657. CANNED SALMON. THE A & P PRODUCTS CORPORATION, Jersey City, N. J.
Filed April 26, 1923. Serial No. 179,696. PUBLISHED JULY 31, 1923.

174,658. CANNED SALMON. THE A & P PRODUCTS CORPORATION, Jersey City, N. J.
Filed April 26, 1923. Serial No. 179,697. PUBLISHED JULY 31, 1923.

174,659. OIL-BURNING APPLIANCES. AEROIL BURNER COMPANY, INC., Union Hill, N. J.
Filed September 23, 1922. Serial No. 169,840. PUBLISHED JULY 17, 1923.

174,660. CANDIES. PEERLESS CONFECTION COMPANY, Chicago, Ill.
Filed September 18, 1922. Serial No. 169,605. PUBLISHED JULY 24, 1923.

174,661. RADIO APPARATUS—NAMELY, TELEPHONE RECEIVERS. THE DOMESTIC ELECTRIC COMPANY, Cleveland, Ohio.
Filed September 18, 1922. Serial No. 169,626. PUBLISHED JULY 10, 1923.

174,662. METALLIC COOKING UTENSILS USED PARTICULARLY FOR COOKING OF HAMS, CORNED BEEF, AND OTHER FOODS. HAM BOILER CORPORATION, New York, N. Y.
Filed September 30, 1922. Serial No. 170,138. PUBLISHED MARCH 20, 1923.

174,663. LOOSE-LEAF BINDERS AND LEAVES THEREOF. UNITED AUTOGRAPHIC REGISTER CO., Chicago, Ill.
Filed September 27, 1922. Serial No. 169,993. PUBLISHED JULY 24, 1923.

174,664. REFRACTORY LININGS, BRICKS, CEMENTS, ETC. THE VITREFRAX COMPANY, INC., Los Angeles, Calif.
Filed October 6, 1922. Serial No. 170,416. PUBLISHED JULY 17, 1923.

174,665. ROUGE AND POWDER COMPACT PACKAGE. LAZELL PERFUMER, Newburgh, N. Y.
Filed October 4, 1922. Serial No. 170,300. PUBLISHED JULY 24, 1923.

174,666. ELECTRIC AND RADIO TELEPHONE JACKS, PLUGS, AND CONNECTIONS. SATURN MFG. & SALES CO. INC., New York, N. Y.
Filed November 1, 1922. Serial No. 171,473. PUBLISHED JULY 10, 1923.

174,667. WRITING INK, TYPEWRITER RIBBONS, CARBON PAPER, AND LITHOGRAPHING AND PRINTING INK. DEEMER & COMPANY, Wilkes-Barre, Pa.
Filed October 26, 1922. Serial No. 171,206. PUBLISHED JUNE 19, 1923.

174,668. GASOLINE. HERBERT DAVID BURROUGHS, Atlanta, Ga.
Filed October 16, 1922. Serial No. 170,751. PUBLISHED JULY 24, 1923.

174,669. CANDY. REY-DEL-REY CANDY CO., Philadelphia, Pa.
Filed November 15, 1922. Serial No. 172,044. PUBLISHED JULY 24, 1923.

174,670. STEEL RULES, ZIGZAG RULES, DIVIDERS, MEASURING TAPES, TAPE CASES, TRAMMEL POINTS, PATTERN RULES, AND WEATHER-VANES. F. O. SCHOEDINGER, Columbus, Ohio.
Filed November 17, 1922. Serial No. 172,180. PUBLISHED JULY 24, 1923.

174,671. OIL-BURNING EQUIPMENT. MAHR MANUFACTURING COMPANY, Minneapolis, Minn.
Filed November 29, 1922. Serial No. 172,683. PUBLISHED JULY 17, 1923.

174,672. STOVE DAMPERS, DAMPER CLIPS, SOLDERING FURNACES, SHEET-METAL PIPES, SHEET-METAL ELBOWS, CHIMNEY CAPS, PIPE COLLARS, FLUE STOPPERS, SKYLIGHTS, AND BUILDING VENTILATORS. F. O. SCHOEDINGER, Columbus, Ohio.
Filed November 17, 1922. Serial No. 172,183. PUBLISHED JULY 17, 1923.

174,673. CERTAIN NAMED TOOLS. F. O. SCHOEDINGER, Columbus, Ohio.
Filed November 17, 1922. Serial No. 172,182. PUBLISHED JULY 24, 1923.

174,674. SURVEYING LINEMEN'S MEASURING OUTFITS CONSISTING OF POLES, FLAGS, AND CHAINS AND MEASURING TAPES. JAMES W. BRINE COMPANY, Boston, Mass.
Filed November 27, 1922. Serial No. 172,580. PUBLISHED JULY 24, 1923.

174,675. ELECTRIC RANGES AND ELECTRIC STOVES. THE TAPPAN STOVE CO., Mansfield, Ohio.
Filed November 23, 1922. Serial No. 172,449. PUBLISHED JULY 10, 1923.

174,676. SOFT DRINK AND POWDERS FOR SAME. PAUL S. HOLLIS, doing business as Big State Co., Fort Worth, Tex.
Filed November 22, 1922. Serial No. 172,380. PUBLISHED JULY 24, 1923.

174,677. EAVES-TROUGH NAILS, RIVETS, BRACKETS, BOLTS, AND CHAINS. F. O. SCHOEDINGER, Columbus, Ohio.
Filed November 17, 1922. Serial No. 172,184. PUBLISHED JULY 24, 1923.

174,678. SCORE BOOKS. JAMES W. BRINE COMPANY, Boston, Mass.
Filed December 1, 1922. Serial No. 172,730. PUBLISHED JULY 24, 1923.

174,679. PERFUMES AND TOILET WATERS. COLGATE & COMPANY, Jersey City, N. J.
Filed April 27, 1923. Serial No. 179,776. PUBLISHED JULY 31, 1923.

174,680. PERFUMES AND TOILET WATERS. COLGATE & COMPANY, Jersey City, N. J.
Filed April 27, 1923. Serial No. 179,777. PUBLISHED JULY 31, 1923.

174,681. PERFUMES AND TOILET WATERS. COLGATE & COMPANY, Jersey City, N. J.
Filed April 27, 1923. Serial No. 179,778. PUBLISHED JULY 31, 1923.

174,682. PERFUMES AND TOILET WATERS. COLGATE & COMPANY, Jersey City, N. J.
Filed April 27, 1923. Serial No. 179,779. PUBLISHED JULY 31, 1923.

174,683. WATCHES AND PARTS THEREOF. FRED KAUFMAN, New York, N. Y.
Filed April 27, 1923. Serial No. 179,796. PUBLISHED JULY 24, 1923.

174,684. COFFEE. THE DERN FOOD COMPANY, Colorado Springs, Colo.
Filed April 28, 1923. Serial No. 179,857. PUBLISHED JULY 31, 1923.

174,685. FRESH LETTUCE, FRESH CANTALOUPES. SAWDEY & HUNT, Los Angeles, Calif.
Filed April 28, 1923. Serial No. 179,884. PUBLISHED JULY 31, 1923.

174,686. PISTON RINGS. TORSION TEST PISTON RING CORPORATION, Newark, N. J.
Filed April 28, 1923. Serial No. 179,894. PUBLISHED JULY 31, 1923.

174,687. CANNED SALMON. ANCHORAGE PACKING CO., Seattle, Wash.
Filed April 30, 1923. Serial No. 179,918. PUBLISHED JULY 31, 1923.

174,688. ELECTRICAL SWITCHES AND INCLOSED ELECTRICAL SWITCHES AND CIRCUIT BREAKERS. THE CUTTER ELECTRICAL AND MANUFACTURING COMPANY, Philadelphia, Pa.
Filed April 30, 1923. Serial No. 179,928. PUBLISHED JULY 31, 1923.

174,689. WALL FINISHES AND REDUCERS. THE HOCKADAY COMPANY, Chicago, Ill.
Filed April 30, 1923. Serial No. 179,940. PUBLISHED JULY 3, 1923.

174,690. STORAGE BATTERIES. WEARITE STORAGE BATTERY CO., Philadelphia, Pa.
Filed April 30, 1923. Serial No. 179,976. PUBLISHED JULY 31, 1923.

174,691. DOLLS. MADAME GEORGENE, INC., New York, N. Y.
Filed May 1, 1923. Serial No. 180,003. PUBLISHED JULY 31, 1923.

174,692. LIQUID MOUTH WASH. MABEL WEST, doing business as Westnell Company, Houston, Tex.
Filed May 1, 1923. Serial No. 180,036. PUBLISHED JULY 31, 1923.

174,693. GOLD AND SILVER POLISH. ARTHUR N. SANDERSON, West Springfield, Mass.
Filed May 2, 1923. Serial No. 180,083. PUBLISHED JULY 24, 1923.

174,694. EARTHENWARE UTENSILS. WARREN I. TYCER, Roseville, Ohio.
Filed May 2, 1923. Serial No. 180,088. PUBLISHED JULY 31, 1923.

174,695. TANNING MATERIALS. FULCRA-TAN COMPANY, New York, N. Y., assignor to Geltan Company, New York, N. Y., a Corporation of Delaware.
Filed May 3, 1923. Serial No. 180,118. PUBLISHED JULY 31, 1923.

174,696. COMPRESSED ASBESTOS-FIBER SHEET PACKING. C. C. HUMBERSTONE, doing business as Monarch Packing & Supply Co., Chicago, Ill.
Filed May 3, 1923. Serial No. 180,122. PUBLISHED JULY 31, 1923.

174,697. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. MARCEL M. MIRABEAU, doing business as Lissauer & Company, New York, N. Y.
Filed February 3, 1923. Serial No. 175,507. PUBLISHED JULY 10, 1923.

174,698. PORTABLE ELECTRIC LAMPS AND PARTS THEREOF, AND BRACKETS, STANDS, AND CLAMPS THEREFOR. AMERICAN ELECTRIC EQUIPMENT CO., INC., New York, N. Y.
Filed February 9, 1923. Serial No. 175,755. PUBLISHED JULY 10, 1923.

174,699. PORTABLE ELECTRIC LAMPS AND PARTS THEREOF, AND BRACKETS, STANDS, AND CLAMPS THEREFOR. AMERICAN ELECTRIC EQUIPMENT CO., INC., New York, N. Y.
Filed February 9, 1923. Serial No. 175,758. PUBLISHED JULY 10, 1923.

174,700. WRITING INKS. VALENTINE A. GLEICH, Ohio.
Filed February 9, 1923. Serial No. 175,784. PUBLISHED JUNE 26, 1923.

174,701. SALAD DRESSING. MARY GERMANY, doing business as Mrs. Mary Germany, Dallas, Tex.
Filed February 16, 1923. Serial No. 176,119. PUBLISHED JULY 24, 1923.

174,702. WATCHCASES. DINHOFER BROS. INC., New York, N. Y.
Filed February 17, 1923. Serial No. 176,168. PUBLISHED JUNE 26, 1923.

174,703. RINSING AND BLUING TUBS. CLARENCE S. TODD, doing business as Todd Drain-A-Tub Co., Kansas City, Mo.
Filed February 19, 1923. Serial No. 176,295. PUBLISHED JUNE 12, 1923.

174,704. WATERPROOFED FABRICS IN THE PIECE, CONSISTING CHIEFLY OF WOOL. NICHOLSON'S RAINCOAT CO., LIMITED, St. Albans, England.
Filed February 23, 1923. Serial No. 176,497. PUBLSHED JULY 17, 1923.

174,705. TOILET PREPARATIONS. ATLANTA BARBERS SUPPLY COMPANY, Atlanta, Ga.
Filed February 26, 1923. Serial No. 176,592. PUBLISHED JULY 24, 1923.

174,706. SALAD DRESSING. PRESERVING MUSHROOM CO., Cleveland, Ohio.
Filed February 27, 1923. Serial No. 176,693. PUBLISHED JUNE 19, 1923.

174,707. ELECTRIC LANTERNS. ALBERT J. COLE, doing business as Three-In-One Lantern Company, Denver, Colo.
Filed March 6, 1923. Serial No. 177,036. PUBLISHED JULY 10, 1923.

174,708. HYDRAULIC SHOCK ABSORBER FOR AUTOMOBILES. LOVEJOY MANUFACTURING COMPANY, Boston, Mass.
Filed March 7, 1923. Serial No. 177,090. PUBLISHED JULY 17, 1923.

174,709. EDIBLE ICE-CREAM CONTAINERS. FAUSTO A. MUSCENTE, doing business as Snow Cake Mfg. Co., Providence, R. I.
Filed December 1, 1922. Serial No. 172,758. PUBLISHED JULY 24, 1923.

174,710. RHINESTONES AND CHATONS. ERNST CLAR, St. Georgental, Czechoslovakia.
Filed December 4, 1922. Serial No. 172,862. PUBLISHED JULY 10, 1923.

174,711. WASHBOILERS AND GALVANIZED WASHTUBS. SCHLUETER MANUFACTURING CO., St. Louis, Mo.
Filed December 4, 1922. Serial No. 172,904. PUBLISHED JUNE 12, 1923.

174,712. ICE-CREAM PORTION EITHER WITH OR WITHOUT AN EDIBLE SUPPORT. LOWELL A. SUTERMEISTER, Dayton, Ohio.
Filed December 4, 1922. Serial No. 172,912. PUBLSHED JULY 24, 1923.

174,713. HOSIERY AND KNIT GOODS. P. RAGUET FILS & J. VIGNES, Troyes, France.
Filed December 5, 1922. Serial No. 172,957. PUBLISHED MAY 22, 1923.

174,714. HOSIERY AND KNIT GOODS. P. RAGUET FILS & J. VIGNES, Troyes, France.
Filed December 5, 1922. Serial No. 172,958. PUBLISHED MAY 22, 1923.

174,715. GARLIC FLAVORING COMPOUND. B. HELLER & COMPANY, Chicago, Ill.
Filed December 6, 1922. Serial No. 172,990. PUBLISHED JULY 24, 1923.

174,716. COFFEE. THE WEIDEMAN COMPANY, Cleveland, Ohio.
Filed December 13, 1922. Serial No. 173,309. PUBLISHED JULY 24, 1923.

174,717. PERIODICAL MAGAZINE RELATING TO THE PRODUCTION AND SALE OF PRINTED MATTER, STATIONERY, OFFICE AND BANK SUPPLIES, AND FURNITURE. LEVEY PRINTING COMPANY, Indianapolis, Ind.
Filed December 18, 1922. Serial No. 173,503. PUBLISHED JUNE 26, 1923.

174,718. ELECTRIC STOVES AND RANGES. AMERICAN RANGE & FOUNDRY COMPANY, also doing business as Minnesota Stove Company, Minneapolis, Minn.
Filed December 19, 1922. Serial No. 173,551. PUBLISHED JULY 24, 1923.

174,719. RADIO RECEIVING AND TRANSMITTING SETS. RICHARD G. CUTHBERT, doing business as Globe Radio Manufacturing Co., New York, N. Y.
Filed December 29, 1922. Serial No. 173,956. PUBLISHED JULY 10, 1923.

174,720. TENTS, TENT FLIES, TARPAULINS, BINDER COVERS, WAGON COVERS, AND AWNINGS. CANVAS PRODUCTS COMPANY, St. Louis, Mo.
Filed January 2, 1923. Serial No. 174,065. PUBLISHED JULY 17, 1923.

174,721. TENTS, TENT FLIES, TARPAULINS, BINDER COVERS, WAGON COVERS, AND AWNINGS. CANVAS PRODUCTS COMPANY, St. Louis, Mo.
Filed January 2, 1923. Serial No. 174,068. PUBLISHED JULY 17, 1923.

174,722. NECKTIES. MEYER, BACHARACH & FRIEDHEIM, New York, N. Y.
Filed January 4, 1923. Serial No. 174,183. PUBLISHED JULY 24, 1923.

174,723. SHEARS AND SCISSORS. THE ATLAS SHEAR CO., Bridgeport, Conn.
Filed January 8, 1923. Serial No. 174,281. PUBLISHED JULY 24, 1923.

174,724. ADDING MACHINES AND PARTS THEREOF, CALCULATING MACHINES, INCLUDING THOSE WITH ELECTRIC DRIVE, AND PARTS THEREOF; AND HAND-OPERATED COUNTING REGISTERS. GUSTAV MEZ, doing business as Mercedes Buro-Maschinen- und Waffen-Werke, Benshausen, Post Mehlis in Thuringia, Germany.
Filed April 26, 1922. Serial No. 162,939. PUBLISHED JULY 31, 1923.

174,725. ADDING MACHINES AND PARTS THEREOF; CALCULATING MACHINES, INCLUDING THOSE WITH ELECTRIC DRIVE, AND PARTS THEREOF; SLIDE RULES, AND HAND-OPERATED COUNTING REGISTERS. GUSTAV MEZ, doing business as Mercedes Buro-Maschinen- und Waffen-Werke, Benshausen, Post Mehlis in Thuringia, Germany.
Filed April 26, 1922. Serial No. 162,938. PUBLISHED JULY 31, 1923.

174,726. COFFEE. H. JEVNE CO., Los Angeles, Calif.
Filed April 22, 1922. Serial No. 162,744. PUBLISHED AUGUST 7, 1923.

174,727. CERTAIN NAMED RADIO APPARATUS. THE CLEVELAND RADIO MANUFACTURING COMPANY, Cleveland, Ohio.
Filed April 21, 1922. Serial No. 162,667. PUBLISHED JULY 24, 1923.

174,728. MONTHLY PUBLICATION. PACIFIC RADIO PUBLISHING CO., INC., San Francisco, Calif.
Filed April 4, 1922. Serial No. 161,747. PUBLISHED JULY 31, 1923.

174,729. HOSE MADE WHOLLY OR PARTLY OF RUBBER OR A RUBBER COMPOSITION. VOORHEES RUBBER MFG. CO., Jersey City, N. J.
Filed March 15, 1922. Serial No. 160,731. PUBLISHED JULY 31, 1923.

174,730. HATS AND CAPS. HENRI PICARD, New York, N. Y.
Filed March 9, 1922. Serial No. 160,429. PUBLISHED JULY 31, 1923.

174,731. HATS AND CAPS FOR MEN, WOMEN, AND CHILDREN. HENRI PICARD, New York, N. Y.
Filed March 9, 1922. Serial No. 160,428. PUBLISHED JULY 31, 1923.

174,732. TEA. KELLY, DOUGLAS & CO., Vancouver, British Columbia, Canada.
Filed February 24, 1922. Serial No. 159,755. PUBLISHED MARCH 6, 1923.

174,733. HAIR DYES AND COLORING. LEON HAYMAN, doing business as Hayman's Hair Shop, New York, N. Y.
Filed February 20, 1922. Serial No. 159,581. PUBLISHED AUGUST 7, 1923.

174,734. CERTAIN NAMED PRINTING INKS. SIGMUND ULLMAN COMPANY, New York, N. Y.
Filed December 8, 1921. Serial No. 156,473. PUBLISHED JULY 24, 1923.

174,735. DIRECT AND INDIRECT WATER HEATERS, INSTANTANEOUS WATER HEATERS, AND AUTOMATICALLY-CONTROLLED WATER HEATER, HEATED BY OIL, GAS, OR VAPOR. STACK HEATER COMPANY, Boston, Mass.
Filed November 10, 1921. Serial No. 155,277. PUBLISHED JULY 24, 1923.

174,736. BLACK STEEL, GALVANIZED STEEL, RUST-RESISTING ANTICORROSIVE IRON, AND IRON, STEEL, AND ALLOY-STEEL METAL SHEETS. UNITED ALLOY STEEL CORPORATION, New York, N. Y., and Canton, Ohio.
Filed November 1, 1921. Serial No. 154,895. PUBLISHED JULY 31, 1923.

174,737. PISTONS. THE KANT-SKORE PISTON COMPANY, Cincinnati, Ohio.
Filed August 26, 1921. Serial No. 152,207. PUBLISHED MAY 16, 1922.

174,738. ELECTRIC MOTORS, ELECTRIC GENERATORS, AND ELECTRIC FANS. STAR ELECTRIC MOTOR CO., Newark, N. J.
Filed August 22, 1921. Serial No. 152,037. PUBLISHED JULY 24, 1923.

174,739. ELECTRIC MOTORS, ELECTRIC GENERATORS, AND ELECTRIC FANS. STAR ELECTRIC MOTOR CO., Newark, N. J.
Filed August 22, 1921. Serial No. 152,036. PUBLISHD JULY 24, 1923.

174,740. BLACKBOARDS. GEORGE W. BROOKS, Topeka, Kans.
Filed July 1, 1921. Serial No. 149,884. PUBLISHED JULY 24, 1923.

174,741. LAPEL BUTTONS. SUPREME ORIENT O. O. H. & P., Schenectady, N. Y.
Filed April 1, 1921. Serial No. 145,596. PUBLISHED JULY 24, 1923.

174,742. SOAPS. TETRALIN-GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Berlin, Germany.
Filed January 10, 1921. Serial No. 142,046. PUBLISHED JULY 24, 1923.

174,743. NEW IRISH POTATOES IN THEIR NATURAL STATE. NIX PRODUCE COMPANY, Hastings, Fla.
Filed June 10, 1922. Serial No. 165,300. PUBLISHED JUNE 5, 1923.

174,744. PILLS AND TABLETS FOR REGULATING MENSTRUAL FUNCTIONS. J. RUBSAM CO., INC., New York, N. Y.
Filed September 6, 1922. Serial No. 169,138. PUBLISHED JULY 24, 1923.

174,745. WATCH MOVEMENTS. CHAS. SCHWARTZ & SON, Washington, D. C.
Filed August 26, 1922. Serial No. 168,732. PUBLISHED JUNE 26, 1923.

174,746. EXTRACTS AND FLAVORINGS FOR FOOD PURPOSES. DAVIES, ROSE & CO., LTD., Boston, Mass.
Filed August 21, 1922. Serial No. 168,517. PUBLISHED JULY 24, 1923.

174,747. READY FELT ROOFING. THE BARRETT COMPANY, New York, N. Y.
Filed August 21, 1922. Serial No. 168,508. PUBLISHED JULY 17, 1923.

174,748. CANNED FRUITS. KINGS COUNTY PACKING CO., Armona, Calif.
Filed August 10, 1922. Serial No. 168,042. PUBLISHED JULY 24, 1923.

174,749. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES, BOTH WHOLESALE AND RETAIL. THE SIGLER BROS. CO., Cleveland, Ohio.
Filed August 5, 1922. Serial No. 167,853. PUBLISHED JULY 24, 1923.

174,750. CERTAIN NAMED CONSTRUCTION MATERIALS. BETHLEHEM FABRICATORS, INC., Bethlehem, Pa.
Filed August 4, 1922. Serial No. 167,795. PUBLISHED JULY 17, 1923.

174,751. AUTOMATICALLY-OPERATED RADIATOR SHUTTERS FOR INTERNAL-COMBUSTION ENGINES. IRVING ENGINEERING-SALES CO., Chicago, Ill.
Filed August 2, 1922. Serial No. 167,722. PUBLISHED JULY 17, 1923.

174,752. MOTOR CYCLES AND BICYCLES. EXCELSIOR MOTOR MFG. AND SUPPLY CO., Chicago, Ill.
Filed August 2, 1922. Serial No. 167,718. PUBLISHED JULY 17, 1923.

174,753. CERTAIN TABLE AND BED LINENS. ADOLPH S. HERRMANN, New York, N. Y.
Filed July 19, 1922. Serial No. 167,082. PUBLISHED MAY 22, 1923.

174,754. HATS, CAPS, TASSELS, AND APRONS. MILITARY ORDER OF THE COOTIE, New York and Brooklyn, N. Y.
Filed June 30, 1922. Serial No. 166,315. PUBLISHED JULY 24, 1923.

174,755. HOUSEHOLD AND KITCHEN UTENSILS MADE OF ALUMINUM. CARL COLSMAN, doing business as Colsman & Co., Werdohl, Germany.
Filed June 15, 1922. Serial No. 165,528. PUBLISHED JULY 24, 1923.

174,756. BRASSIÈRES. NATURE'S RIVAL COMPANY, Chicago, Ill.
Filed June 12, 1922. Serial No. 165,406. PUBLISHED JULY 24, 1923.

174,757. AUTOMOBILE UPHOLSTERY FABRICS TEXTILE IN NATURE. A. BOYRIVEN, New York, N. Y.
Filed June 7, 1922. Serial No. 165,120. PUBLISHED JULY 24, 1923.

174,758. SPRINGS FOR GENERAL USE, SUCH AS COMPRESSION, EXTENSION, AND TORSION SPRINGS. MILLER & VAN WINKLE, INC., Brooklyn, N. Y.
Filed June 14, 1922. Serial No. 165,501. PUBLISHED JULY 31, 1923.

174,759. HEADING FOR A NEWSPAPER COLUMN. THE TRIBUNE COMPANY, Chicago, Ill.
Filed July 1, 1922. Serial No. 166,413. PUBLISHED JULY 31, 1923.

174,760. SHOVELS, SPADES, SCOOPS, POSTHOLE DIGGERS, AND WOODEN HANDLES. BALDWIN TOOL WORKS, Parkersburg, W. Va.
Filed July 10, 1922. Serial No. 166,636. PUBLISHED AUGUST 7, 1923.

174,761. PREPARATION FOR REMOVING CALLI AND CORNS FROM THE FEET. BOOTH-COAHRAN CO., San Diego, Calif.
Filed August 4, 1922. Serial No. 167,796. PUBLISHED AUGUST 7, 1923.

174,762. ALLOY MADE FROM NICKEL ORE FOR FORGING STEEL. LENAH B. ARCHER, Navarre, Ohio.
Filed August 16, 1922. Serial No. 168,288. PUBLISHED JULY 31, 1923.

174,763. FRUITS. ORANGEVALE FRUIT GROWERS EXCHANGE, Orangevale Colony, Calif.
Filed August 28, 1922. Serial No. 168,782. PUBLISHED AUGUST 14, 1923.

174,764. GASOLINE, KEROSENE, AND LUBRICATING OILS AND GREASES. WESTLAND OIL COMPANY, Scobey, Mont.
Filed September 18, 1922. Serial No. 169,612. PUBLISHED FEBRUARY 27, 1923.

174,765. ELECTRICALLY-ILLUMINATED SIGNS. FLEXLUME CORPORATION, Buffalo, N. Y.
Filed September 18, 1922. Serial No. 169,630. PUBLISHED JULY 24, 1923.

174,766. IMAGES, BRIC-A-BRAC, STATUARY, ORNAMENTAL HEADS, BADGES, EMBLEMS, CAMPAIGN BUTTONS. ERNEST M. VIQUESNEY, Spencer, Ind.
Filed October 2, 1922. Serial No. 170,228. PUBLISHED JULY 17, 1923.

174,767. RIC-RAC BRAID SOLD BY THE YARD AND USED FOR DRESS TRIMMINGS. BARASH BROS., INC., New York, N. Y.
Filed October 4, 1922. Serial No. 170,269. PUBLISHED JULY 24, 1923.

174,768. GARDEN HOSE. BAKER, HAMILTON AND PACIFIC COMPANY, San Francisco, Calif.
Filed October 6, 1922. Serial No. 170,359. PUBLISHED JULY 31, 1923.

174,769. CANDY. W. T. GRANT COMPANY, New York, N. Y.
Filed October 18, 1922. Serial No. 170,881. PUBLISHED AUGUST 14, 1923.

174,770. BATTERIES. MOGUL ELECTRIC COMPANY, Seattle, Wash.
Filed October 24, 1922. Serial No. 171,135. PUBLISHED JULY 31, 1923.

174,771. MEDICATED AND SURGICAL PLASTERS. THE DEANE PLASTER CO., Yonkers, N. Y.
Filed October 25, 1922. Serial No. 171,154. PUBLISHED AUGUST 7, 1923.

174,772. LADDERS. THE GOSHEN CHURN & LADDER COMPANY, Goshen, Ind.
Filed October 28, 1922. Serial No. 171,315. PUBLISHED JULY 24, 1923.

174,773. RADIO SENDING SETS, RADIO RECEIVING SETS, ASSEMBLED AND NOT ASSEMBLED. BRUNO RADIO CORPORATION, New York, N. Y.
Filed November 1, 1922. Serial No. 171,442. PUBLISHED JULY 31, 1923.

174,774. COMPOUND USED IN THE CURING OF RUBBER ARTICLES. THE RUBBER SERVICE LABORATORIES COMPANY, Akron, Ohio.
Filed November 1, 1922. Serial No. 171,470. PUBLISHED AUGUST 7, 1923.

174,775. CANDY AND CAKES. BUSY BEE CANDY COMPANY, St. Louis, Mo.
Filed November 11, 1922. Serial No. 171,829. PUBLISHED JULY 31, 1923.

174,776. CHEMICALS. E. DE HAEN A. G., Seelze, Germany.
Filed November 11, 1922. Serial No. 171,832. PUBLISHED AUGUST 7, 1923.

174,777. FINGER RINGS AND NECK CHAINS. LEOPOLD BLOCK, doing business as Buffalo Jewelry Manufacturing Company, Buffalo, N. Y.
Filed November 13, 1922. Serial No. 171,893. PUBLISHED JULY 24, 1923.

174,778. POLISH FOR RESTORING THE POLISH OF MUSICAL INSTRUMENTS. JOE NICOMEDE, doing business as Lustroil Co., Altoona, Pa.
Filed September 11, 1922. Serial No. 169,317. PUBLISHED JULY 24, 1923.

174,779. SECONDARY ELECTRICAL BATTERIES. BARTHOLOMEW BATTERY & SUPPLY CO., doing business as Bartholomew Battery Co., St. Louis, Mo.
Filed December 22, 1921. Serial No. 157,020. PUBLISHED APRIL 3, 1923.

174,780. PRINTING INK. GEO. H. MORRILL CO., Norwood, Mass.
Filed December 9, 1921. Serial No. 156,499. PUBLISHED JULY 10, 1923.

174,781. FRESH EGGS. NEW HAMPSHIRE CO-OPERATIVE MARKETING ASSOCIATION, INC., Manchester, N. H.
Filed September 19, 1921. Serial No. 153,101. PUBLISHED JULY 24, 1923.

174,782. BREAD. THOMAS J. FITZPATRICK, Gloversville, N. Y.
Filed September 17, 1921. Serial No. 153,036. PUBLISHED JULY 24, 1923.

174,783. CARD INDEXES, INDEX CARDS, INDEX-CARD CASES, INDEX-CARD CABINETS, INDEX-CARD TABS, CARD HOLDERS, CARD SIGNALS, AND CARD SHEATHS. INDEX VISIBLE, INC., New Haven, Conn.
Filed May 26, 1921. Serial No. 148,279. PUBLISHED JULY 24, 1923.

174,784. COCOA AND CHOCOLATE. F. & H. TURNER LIMITED, Wallington, England, and Helmond, Netherlands.
Filed May 14, 1921. Serial No. 147,745. PUBLISHED AUGUST 15, 1922.

174,785. ELECTRICAL STOP AND DIRECTION SIGNAL LIGHT SYSTEMS FOR VEHICLES. TAMEKICHI KATAGI, Seattle, Wash.
Filed March 23, 1921. Serial No. 145,110. PUBLISHED JULY 24, 1923.

174,786. AUTOMOBILE WINDSHIELD WIPERS. WHITE PRODUCTS COMPANY, Chicago, Ill.
Filed March 14, 1921. Serial No. 144,757. PUBLISHED JULY 24, 1923.

174,787. AUTOMOBILE STOP AND DIRECTION INDICATORS. BEGLEY MECHANICAL CORPORATION, New York, N. Y.
Filed March 5, 1921. Serial No. 144,309. PUBLISHED JULY 24, 1923.

174,788. FLOORS AND PAVEMENTS, AND MATERIALS THEREFOR. THE JENNISON-WRIGHT CO., Toledo, Ohio.
Filed April 28, 1920. Serial No. 131,736. PUBLISHED JULY 17, 1923.

174,789. PAVEMENTS AND FLOORS AND MATERIALS THEREFOR, INCLUDING ELEMENTS OF BRICK, BLOCK, OR TILE FORMS. THE JENNISON-WRIGHT CO., Toledo, Ohio.
Filed April 28, 1920. Serial No. 131,735. PUBLISHED JULY 17, 1923.

174,790. CERTAIN NAMED ELECTRICAL APPARATUS AND MACHINES. WILSON WELDER & METALS COMPANY, INC., New York, N. Y.
Filed May 5, 1919. Serial No. 118,198. PUBLISHED JULY 10, 1923.

174,791. CANDY. ELIC A. HOFFMAN, doing business as E. A. Hoffman Candy Co., Los Angeles, Calif.
Filed January 10, 1923. Serial No. 174,393. PUBLISHED JULY 24, 1923.

174,792. SALAD DRESSING. MRS. C. H. EVANS, Wichita Falls, Tex.
Filed January 11, 1923. Serial No. 174,430. PUBLISHED JUNE 19, 1923.

174,793. SPANISH PAPRIKA AND SPICES. EMETERIO FLORES, New York, N. Y.
Filed January 13, 1923. Serial No. 174,567. PUBLISHED JULY 24, 1923.

174,794. ELECTRIC SWITCHES, TELEPHONE CONTROL SWITCHES, AMPLIFIER CONTROL SWITCHES, B BATTERY CONTROL SWITCHES, AND RESISTANCE CONTROL PARTS. MORRIS KLOSNER, doing business as Klosner Improved Apparatus Company, New York, N. Y.
Filed January 13, 1923. Serial No. 174,579. PUBLISHED JULY 24, 1923.

174,795. WOMEN'S AND CHILDREN'S TEXTILE UNDERWEAR. IDA MUNZER, INC., New York, N. Y.
Filed January 13, 1923. Serial No. 174,586. PUBLISHED JULY 24, 1923.

174,796. NURSES' COLLARS, CUFFS, APRONS, CAPS, BIBS, UNIFORMS, OPERATING GOWNS; PATIENTS' BED GOWNS, AND LADIES' COLLARS AND CUFFS. E. W. MARVIN COMPANY, Troy, N. Y.
Filed January 20, 1923. Serial No. 174,845. PUBLISHED JULY 24, 1923.

174,797. OIL-WELL SWABS, STUFFING BOXES, JERECKI JETS, WIRE-LINE SOCKETS, AND TONGS. THE OIL COUNTRY SPECIALTIES MANUFACTURING CO., Coffeyville, Kans.
Filed January 20, 1923. Serial No. 174,850. PUBLISHED JULY 24, 1923.

174,798. SCREW DRIVERS. SNAP-ON WRENCH COMPANY, Milwaukee, Wis.
Filed May 17, 1923. Serial No. 180,776. PUBLISHED JULY 31, 1923.

174,799. SOAP. SUSANNA COCROFT LABORATORIES INC., New York, N. Y.
Filed May 17, 1923. Serial No. 180,751. PUBLISHED JULY 24, 1923.

174,800. INDOOR TABLE GAME PLAYED WITH CARDS AND DOMINO-SHAPED BLOCKS. PARKER BROTHERS, Portland, Me., and Salem, Mass.
Filed May 16, 1923. Serial No. 180,721. PUBLISHED JULY 31, 1923.

174,801. COTTON DRILLING IN THE PIECE. MINOT, HOOPER & CO., New York, N. Y.
Filed May 16, 1923. Serial No. 180,714. PUBLISHED JULY 31, 1923.

174,802. PREPARATION FOR REMOVING STARCH AND SIZING FROM TEXTILES. H. A. METZ & CO., INC., New York, N. Y.
Filed May 16, 1923. Serial No. 180,713. PUBLISHED AUGUST 7, 1923.

174,803. MEDICINAL PREPARATION FOR INTESTINAL DISORDERS. INTERNATIONAL CONSOLIDATED CHEMICAL CORPORATION, INC., doing business as Dae Health Laboratories, New York, N. Y.
Filed May 16, 1923. Serial No. 180,702. PUBLISHED AUGUST 7, 1923.

174,804. WOOLEN CLOTH FOR USE IN THE MANUFACTURE OF WEARING APPAREL. FRANKENBERG, MORGAN & SINGLETON, New York, N. Y.
Filed May 15, 1923. Serial No. 180,659. PUBLISHED JULY 31, 1923.

174,805. GAS AND GASOLINE MANTLES. THE BLOCK GAS MANTLE COMPANY, Youngstown, Ohio.
Filed May 15, 1923. Serial No. 180,651. PUBLISHED JULY 24, 1923.

174,806. BATH SOAP. FRED A. WISH, INCORPORATED, New York, N. Y.
Filed May 14, 1923. Serial No. 180,639. PUBLISHED JULY 24, 1923.

174,807. LUBRICATING OILS AND GREASES. SMITH OIL & REFINING COMPANY, Rockford, Ill.
Filed May 14, 1923. Serial No. 180,628. PUBLISHED JULY 10, 1923.

174,808. LIQUID FOR EXTERMINATING VERMIN. SEYMOUR S. SCHOEN, doing business as Modern Exterminating Co., New York, N. Y.
Filed May 14, 1923. Serial No. 180,623. PUBLISHED AUGUST 7, 1923.

174,809. ZINC OXIDE. THE NEW JERSEY ZINC COMPANY, Newark and Franklin, N. J.
Filed May 14, 1923. Serial No. 180,615. PUBLISHED AUGUST 7, 1923.

174,810. LINEN FIRE HOSE. WM. & CHAS. BECK, INC., Lawrence, Mass.
Filed March 24, 1923. Serial No. 177,950. PUBLISHED JUNE 5, 1923.

174,811. TRAVELING BAGS, SUITCASES, BRIEF CASES, TRUNKS, AND POCKETBOOKS. SAMUEL SHERMAN, New York, N. Y.
Filed March 17, 1921. Serial No. 144,882. PUBLISHED OCTOBER 11, 1921.

174,812. DETERGENT IN THE NATURE OF A WATER SOFTENER AND SOAP. AXXO CHEMICAL CO., New York, N. Y.
Filed May 22, 1923. Serial No. 180,957. PUBLISHED JULY 24, 1923.

174,813. HOSE COMPOSED OF RUBBER AND FABRIC. INGERSOLL-RAND COMPANY, Jersey City, N. J., and New York, N. Y.
Filed May 21, 1923. Serial No. 180,934. PUBLISHED JULY 31, 1923.

174,814. HOSE COMPOSED OF RUBBER AND FABRIC. INGERSOLL-RAND COMPANY, Jersey City, N. J., and New York, N. Y.
Filed May 21, 1923. Serial No. 180,933. PUBLISHED JULY 31, 1923.

174,815. NIPPERS. SNELL & ATHERTON, INC., Brockton, Mass.
Filed May 19, 1923. Serial No. 180,901. PUBLISHED JULY 31, 1923.

174,816. CERTAIN NAMED WEARING APPAREL FOR MEN AND WOMEN. ROSENWALD & WEIL INC., Chicago, Ill.
Filed May 19, 1923. Serial No. 180,892. PUBLISHED AUGUST 7, 1923.

174,817. FRUIT-JAR RUBBERS. HAMILTON RUBBER MANUFACTURING COMPANY, Trenton, N. J.
Filed May 19, 1923. Serial No. 180,862. PUBLISHED JULY 31, 1923.

174,818. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY AND KNITTED UNDERWEAR. GEO. ENGLISH JR. & CO., Shamokin, Pa.
Filed May 19, 1923. Serial No. 180,847. PUBLISHED AUGUST 7, 1923.

174,819. UNBLEACHED SHEETING. CONSOLIDATED TEXTILE CORPORATION, New York, N. Y.
Filed November 15, 1922. Serial No. 172,031. PUBLISHED JULY 24, 1923.

174,820. MEDICAL PRODUCT, A MEDICAL COMPOUND TERMED "ARSENICAL RUB." ELI H. DUNN, doing business as Eli Laboratory and E. H. Dunn & Co., Kansas City, Mo.
Filed November 16, 1922. Serial No. 172,086. PUBLISHED AUGUST 7, 1923.

174,821. FLAGS, BANNERS, PENNANTS, COMPETITION NUMBERS, FELT LETTERS, FELT NUMERALS, FELT MONOGRAMS, FELT EMBLEMS, FELT ARM BANDS, FRICTION CLOTH, FOOTBALL LACES, AND FOOTBALL-LACING DEVICES. JAMES W. BRINE COMPANY, Boston, Mass.
Filed November 27, 1922. Serial No. 172,581. PUBLSHED JULY 24, 1923.

174,822. PERFUMES. JEAN CHARLES WORTH, Paris, France, assignor to Société Worth, Paris France, a Firm.
Filed November 27, 1922. Serial No. 172,630. PUBLISHED AUGUST 7, 1923.

174,823. COUPONS FOR THE PURCHASE OF MERCHANDISE. EUGENE B. MCCANN, doing business as Mutual Benefit Association, New York, N. Y.
Filed December 23, 1922. Serial No. 173,776. PUBLISHED JULY 31, 1923.

174,824. WATCH MOVEMENTS AND WATCHCASES. MEYER GOLDIN, doing business as Continental Watch and Jewelry Co., Chicago, Ill.
Filed December 27, 1922. Serial No. 173,887. PUBLISHED JULY 24, 1923.

174,825. PHARMACEUTICAL PREPARATION USED FOR THE TREATMENT OF FOOT AND MOUTH DISEASES AND DISINFECTANT. AMERICAN KREUGER & TOLL CORPORATION, New York, N. Y.
Filed January 18, 1923. Serial No. 174,719. PUBLISHED AUGUST 7, 1923.

174,826. BONDS, CERTIFICATES, BOOKLETS, STORIES. G. L. MILLER & COMPANY, INC., Wilmington, Del., and New York, N. Y.
Filed January 31, 1923. Serial No. 175,367. PUBLISHED JULY 31, 1923.

174,827. PREPARATION FOR COUGHS. A. GAZZONI & C., Bologna, Italy.
Filed February 6, 1923. Serial No. 175,600. PUBLISHED AUGUST 7, 1923.

174,828. BED SPRINGS. BENJAMIN F. LINDSLEY, doing business as The Perfection Bed Spring Company, Mansfield, Ohio.
Filed February 9, 1923. Serial No. 175,801. PUBLISHED JULY 31, 1923.

174,829. CARTOON FEATURE SOLD TO VARIOUS NEWSPAPERS AND NEWSPAPER SYNDICATES OF THE UNITED STATES. CHARLES WILLIAM KAHLES, Queens, N. Y.
Filed February 10, 1923. Serial No. 175,871. PUBLISHED JULY 31, 1923.

174,830. METALLIC HOT-DISH PLACQUES. ETCHED PRODUCTS CORPORATION, Long Island City, N. Y.
Filed February 15, 1923. Serial No. 176,075. PUBLISHED JULY 24, 1923.

174,831. MAGAZINE SECTION. LEGION PUBLISHING CORPORATION, New York, N. Y.
Filed February 17, 1923. Serial No. 176,196. PUBLISHED JULY 31, 1923.

174,832. CERTAIN ARTICLES OF CLOTHING. DOBBS & CO., New York, N. Y.
Filed February 19, 1923. Serial No. 176,257. PUBLISHED AUGUST 7, 1923.

174,833. HOSIERY. BEAR BRAND HOSIERY CO., Chicago, Ill.
Filed February 20, 1923. Serial No. 176,319. PUBLISHED AUGUST 7, 1923.

174,834. COLLARS. CLUETT, PEABODY & COMPANY, INC., Troy, N. Y.
Filed February 20, 1923. Serial No. 176,326. PUBLISHED AUGUST 7, 1923.

174,835. CLOTHES-WASHING MACHINES AND CLOTHES WRINGERS. CHAMPION APPLIANCE MANUFACTURING COMPANY, INC., Yonkers, N. Y.
Filed February 21, 1923. Serial No. 176,399. PUBLISHED JUNE 12, 1923.

174,836. MEN'S AND YOUNG MEN'S OUTER GARMENTS—NAMELY, SUITS IN ONE, TWO, AND THREE PIECE GARMENTS AND OVERCOATS. FRUHAUF BROS. & CO., New York, N. Y.
Filed February 23, 1923. Serial No. 176,460. PUBLISHED AUGUST 7, 1923.

174,837. LUGGAGE CARRIERS, SHOCK ABSORBERS, AND COMBINED FENDER BRACES AND BUMPERS. MARQUETTE MANUFACTURING COMPANY, St. Paul, Minn.
Filed February 24, 1923. Serial No. 176,561. PUBLISHED JULY 24, 1923.

174,838. PRINTED BOOKS. HILLBERN THRIFT CORPORATION, Chicago, Ill.
Filed February 26, 1923. Serial No. 176,626. PUBLISHED JULY 31, 1923.

174,839. CERTAIN NAMED GAUGES. CLIFFORD M. LARSON, Chicago, Ill.
Filed March 26, 1923. Serial No. 178,049. PUBLISHED JULY 31, 1923.

174,840. MONTHLY PUBLICATION. AMERICAN MUTUAL LIABILITY INSURANCE COMPANY OF BOSTON, Boston, Mass.
Filed March 26, 1923. Serial No. 178,019. PUBLISHED JULY 31, 1923.

174,841. HOSIERY. DALTON HOSIERY MILLS, Dalton, Ga.
Filed March 22, 1923. Serial No. 177,832. PUBLISHED JULY 31, 1923.

174,842. VESTS FOR OUTER WEAR FOR MEN. REIFFMAN-CORN INC., New York, N. Y.
Filed March 21, 1923. Serial No. 177,801. PUBLISHED JULY 31, 1923.

174,843. CERTAIN NAMED BRAIDS. THE GAIFFING MANUFACTURING CO., Norwalk, Conn.
Filed March 21, 1923. Serial No. 177,776. PUBLISHED JULY 31, 1923.

174,844. MEN'S AND BOYS' SHIRTS—NAMELY, DRESS, NEGLIGEE, AND WORK SHIRTS. HARRY BERGER, doing business as Harry Berger Shirt Company, New York, N. Y.
Filed March 21, 1923. Serial No. 177,763. PUBLISHED JULY 31, 1923.

174,845. MEDICINE FOR TREATMENT OF GENERAL DEBILITY. THEODORE GOLDBLUM, doing business as Stanley Drug Company, Philadelphia, Pa.
Filed March 20, 1923. Serial No. 177,736. PUBLISHED JULY 31, 1923.

174,846. MEN'S UNDERSHIRTS, UNDERDRAWERS, AND UNION SUITS MADE OF KNITTED AND TEXTILE FABRICS. TRYON MILLS OF VERMONT, Bennington, Vt.
Filed March 17, 1923. Serial No. 177,636. PUBLISHED AUGUST 7, 1923.

174,847. UNDERSHIRTS, UNDERDRAWERS, AND UNION SUITS MADE OF KNITTED FABRIC, FOR MEN. JOHN K. STEWART & SONS, INC., Amsterdam, N. Y.
Filed March 17, 1923. Serial No. 177,633. PUBLISHED AUGUST 7, 1923.

174,848. SOFT DRINK. THE VITA FOOD COMPANY, Chicago, Ill.
Filed March 15, 1923. Serial No. 177,529. PUBLISHED JULY 31, 1923.

174,849. RUBBER TUBES FOR PNEUMATIC TIRES. PACKARD MOTOR CAR COMPANY OF NEW YORK, New York, N. Y.
Filed March 15, 1923. Serial No. 177,510. PUBLISHED JULY 31, 1923.

174,850. NECKTIES, SCARFS, AND SWEATERS. ABRAHAM A. KAHIL, doing business as The Guarantie Company, New York, N. Y.
Filed March 15, 1923. Serial No. 177,492. PUBLISHED JULY 31, 1923.

174,851. SCISSORS, SHEARS, AND POCKETKNIVES. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed March 13, 1923. Serial No. 177,371. PUBLISHED JULY 31, 1923.

174,852. EARRINGS, FINGER RINGS, PENDANTS, SCARF PINS, CUFF AND COLLAR BUTTONS, AND LAVALLIÈRES. LOUIS BESSELL, New York, N. Y.
Filed March 12, 1923. Serial No. 177,266. PUBLISHED JULY 24, 1923.

174,853. READY MIXED PAINTS. ASBESTOS, LIMITED, New York, N. Y.
Filed March 12, 1923. Serial No. 177,262. PUBLISHED JUNE 19, 1923.

174,854. CORSETS, WAIST CORSETS, BRASSIÈRES, AND MEN'S, WOMEN'S, AND CHILDREN'S UNDERGARMENTS OF TEXTILE FABRICS. CHARLES MUNTER, New York, N. Y.
Filed March 9, 1923. Serial No. 177,193. PUBLISHED AUGUST 7, 1923.

174,855. CORSETS, WAIST CORSETS, BRASSIÈRES, AND MEN'S, WOMEN'S, AND CHILDREN'S UNDERGARMENTS OF TEXTILE FABRICS. CHARLES MUNTER, New York, N. Y.
Filed March 9, 1923. Serial No. 177,192. PUBLISHED AUGUST 7, 1923.

174,856. DISINFECTANT. LOUELLA WHITT, Malvern, Iowa.
Filed March 6, 1923. Serial No. 177,059. PUBLISHED JULY 31, 1923.

174,857. COMPILATION OF RECIPES, CARD INDEX OF RECIPES, AND PRINTED RECIPES. GEO. D. ROPER CORPORATION, Rockford, Ill.
Filed February 26, 1923. Serial No. 176,654. PUBLISHED JULY 31, 1923.

174,858. HAMS, BACONS, SAUSAGES, SHOULDERS, MINCED LUNCHEON MEAT, PRESSED MEAT, LUNCHEON TONGUES, SLICED DRIED BEEF, JOWL, HEAD CHEESE, SMOKED BONELESS BUTTS, AND LARD. INDIANAPOLIS ABATTOIR COMPANY, Indianapolis, Ind.
Filed February 26, 1923. Serial No. 176,629. PUBLISHED JULY 31, 1923.

174,859. SOAP. LEVER BROTHERS COMPANY, Cambridge, Mass.
Filed May 14, 1923. Serial No. 180,610. PUBLISHED JULY 24, 1923.

174,860. HEATING FURNACES. HOWARD STOVE & FURNACE CO., Ralston, Nebr.
Filed May 14, 1923. Serial No. 180,603. PUBLISHED JULY 24, 1923.

174,861. DISINFECTANT. NEWTON S. HILLYARD, doing business as Hillyard Chemical Company, St. Joseph, Mo.
Filed May 14, 1923. Serial No. 180,600. PUBLISHED AUGUST 7, 1923.

174,862. XYLOPHONES. J. C. DEAGAN, INC., Chicago, Ill.
Filed May 12, 1923. Serial No. 180,529. PUBLISHED JULY 24, 1923.

174,863. LAUNDRY SOAP. CONCENTRATED PRODUCTS CORPORATION, Carlstadt, N. J., and New York, N. Y.
Filed May 12, 1923. Serial No. 180,527. PUBLISHED JULY 31, 1923.

174,864. FERTILIZERS. NITRATE AGENCIES COMPANY, New York, N. Y.
Filed May 11, 1923. Serial No. 180,486. PUBLISHED JULY 10, 1923.

174,865. SOFT-DRINK EXTRACT. LINWOOD S. CARNEY, Boston, Mass.
Filed May 11, 1923. Serial No. 180,467. PUBLISHED JULY 31, 1923.

174,866. GINGER ALE AND SOFT DRINKS. CARL A. HAY, doing business as Newton Ice Cream Company, Newton, Kans.
Filed May 10, 1923. Serial No. 180,428. PUBLISHED JULY 31, 1923.

174,867. REMEDY FOR TOOTHACHE AND NEURALGIA AND A MEDICINAL PREPARATION FOR REMOVING CORNS. LOUIS SCHULZE, doing business as Success Pharmacal Co., Baltimore, Md.
Filed May 9, 1923. Serial No. 180,392. PUBLISHED JULY 31, 1923.

174,868. WASHING POWDER FOR LAUNDRY PURPOSES. H. KOHNSTAMM & CO., INC., New York, N. Y.
Filed May 9, 1923. Serial No. 180,375. PUBLISHED JULY 24, 1923.

174,869. TOOTH PASTE. EDWARD A. WARNICK, doing business as Ka-Nix Sales Co., Birmingham, Ala.
Filed May 8, 1923. Serial No. 180,336. PUBLISHED JULY 31, 1923.

174,870. MONTHLY PERIODICAL. ÆTNA LIFE INSURANCE COMPANY, Hartford, Conn.
Filed May 8, 1923. Serial No. 180,318. PUBLISHED JULY 31, 1923.

174,871. TOILET POWDER. ARTHUR G. SMITH, doing business as The Spic Company, Chicago, Ill.
Filed May 7, 1923. Serial No. 180,304. PUBLISHED JULY 31, 1923.

174,872. LAXATIVES. SATIE KAIDASZ, Philadelphia, Pa.
Filed May 5, 1923. Serial No. 180,224. PUBLISHED JULY 31, 1923.

174,873. SOAP AND SCOURING COMPOUNDS. BONDED PRODUCTS CORPORATION, New York, N. Y.
Filed May 5, 1923. Serial No. 180,206. PUBLISHED JULY 24, 1923.

174,874. MOUTH HARMONICAS. M. HOHNER, New York, N. Y.
Filed May 4, 1923. Serial No. 180,180. PUBLISHED JULY 24, 1923.

174,875. CIGARS. ALL SAINTS CIGAR CO., Tampa, Fla.
Filed May 4, 1923. Serial No. 180,165. PUBLISHED JULY 31, 1923.

174,876. RADIO RECEIVING SETS AND PARTS THEREFOR. RAJAH RADIO GUILD, University City, Mo.
Filed May 3, 1923. Serial No. 180,142. PUBLISHED JULY 31, 1923.

174,877. PHONOGRAPH RECORDS. LINCOLN RECORD CORPORATION, New York, N. Y.
Filed May 3, 1923. Serial No. 180,133. PUBLISHED JULY 24, 1923.

174,878. CARBON REMOVER FOR GASOLINE ENGINES. WILLIAM H. KOETTER, doing business as Koetter Manufacturing Co., Peoria, Ill.
Filed May 3, 1923. Serial No. 180,126. PUBLISHED JULY 31, 1923.

174,879. TRANSMISSION OILS AND GREASES. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif.
Filed June 4, 1923. Serial No. 181,548. PUBLISHED JULY 31, 1923.

174,880. WORK SHIRTS AND NEGLIGEE SHIRTS. WYMAN, PARTRIDGE & CO., Minneapolis, Minn.
Filed June 4, 1923. Serial No. 181,550. PUBLISHED AUGUST 7, 1923.

174,881. COTTON PIECE GOODS. CONSOLIDATED TEXTILE CORPORATION, New York, N. Y.
Filed June 5, 1923. Serial No. 181,558. PUBLISHED AUGUST 7, 1923.

174,882. LADIES' HAIR NETS. R. GINSBERG & BRO., New York, N. Y.
Filed June 5, 1923. Serial No. 181,563. PUBLISHED AUGUST 7, 1923.

174,883. PATCHING PASTE. THE CAMPBELL MANUFACTURING CO., Rochester, N. Y.
Filed June 7, 1923. Serial No. 181,631. PUBLISHED JULY 31, 1923.

174,884. GLUE. E. F. RUSS COMPANY, Boston, Mass.
Filed June 8, 1923. Serial No. 181,700. PUBLISHED JULY 31, 1923.

174,885. WATCHES. BAIRD-NORTH COMPANY, Providence, R. I.
Filed June 9, 1923. Serial No. 181,715. PUBLISHED JULY 24, 1923.

174,886. MOPS, MOPSTICKS, AND BATHTUB CLEANERS. JACOB A. MEINHARDT, doing business as J. A. Meinhardt Company, Chicago, Ill.
Filed May 19, 1923. Serial No. 180,876. PUBLISHED JULY 24, 1923.

174,887. FINGER RINGS. HARRY E. KAPLAN, doing business as H. E. Kaplan & Co., Chicago, Ill.
Filed May 10, 1923. Serial No. 180,435. PUBLISHED JULY 10, 1923.

174,888. PEARLS, REAL AND ARTIFICIAL. JACK J. FELSENFELD, New York, N. Y.
Filed May 8, 1923. Serial No. 180,332. PUBLISHED JULY 10, 1923.

174,889. BRACELETS, WRISTLETS, NECK CHAINS, WATCH CHAINS, TIE CLASPS, COAT CHAINS, AND BELT CHAINS. EISENSTADT MANUFACTURING COMPANY, St. Louis, Mo.
Filed May 5, 1923. Serial No. 180,211. PUBLISHED JULY 10, 1923.

174,890. ARTIFICIAL PEARLS. D. W. THOMAS, INCORPORATED, Seattle, Wash.
Filed April 30, 1923. Serial No. 179,975. PUBLISHED JULY 10, 1923.

174,891. SEMIPRECIOUS STONES. MORRIS A. BARR, Valley Forge, Pa.
Filed April 28, 1923. Serial No. 179,844. PUBLISHED JULY 10, 1923.

174,892. SARSAPARILLA, GINGER ALE, CREAM SODA, ROOT BEER, AND GRAPE JUICE. WM. MONTGOMERY & CO., Philadelphia, Pa.
Filed April 27, 1923. Serial No. 179,811. PUBLISHED JULY 24, 1923.

174,893. RUBBER-COVERED ROLLS FOR PAPER MILLS, TANNERIES, BLEACHERIES, ETC. STOWE & WOODWARD COMPANY, Newton and Newton Upper Falls, Mass.
Filed March 28, 1923. Serial No. 178,198. PUBLISHED JULY 31, 1923.

174,894. CANNED FRUITS AND CANNED VEGETABLES. CALIFORNIA CANNERIES CO., San Francisco, Calif.
Filed March 29, 1923. Serial No. 178,221. PUBLISHED AUGUST 14, 1923.

174,895. DEHYDRATORS AND PARTS OF DEHYDRATORS. THE MONARCH CORPORATION, Pittsburgh, Pa.
Filed March 29, 1923. Serial No. 178,268. PUBLISHED JULY 24, 1923.

174,896. TIRES MADE WHOLLY OR PARTLY OF RUBBER. THE FEDERAL RUBBER COMPANY OF ILLINOIS, Chicago, Ill., and Cudahy, Wis.
Filed March 30, 1923. Serial No. 178,336. PUBLISHED JUNE 5, 1923.

174,897. CERTAIN NAMED FABRICS. HECHT & MENDES INCORPORATED, New York, N. Y.
Filed April 4, 1923. Serial No. 178,560. PUBLISHED JULY 31, 1923.

174,898. LUBRICATING OILS AND GREASES. PENNSYLVANIA LUBRICATING COMPANY, Pittsburgh, Pa.
Filed April 4, 1923. Serial No. 178,566. PUBLISHED JULY 31, 1923.

174,899. KNITTED WOOLEN PIECE GOODS. GARFIELD WORSTED MILLS, Garfield, N. J.
Filed April 5, 1923. Serial No. 178,604. PUBLISHED JULY 31, 1923.

174,900. PRINTING INKS. LEWIS ROBERTS, INC., Newark, N. J.
Filed April 5, 1923. Serial No. 178,629. PUBLISHED JULY 24, 1923.

174,901. SOAP AND SOAP FLAKES. PROUTY-BOWLER SOAP CO., Des Moines, Iowa.
Filed April 7, 1923. Serial No. 178,771. PUBLISHED JULY 24, 1923.

174,902. NANKINS AND TICKINGS IN THE PIECE. FREUND, FREUND & COMPANY, New York, N. Y.
Filed April 9, 1923. Serial No. 178,835. PUBLISHED JULY 31, 1923.

174,903. COAL AND GAS RANGES, COAL, GAS, WOOD, AND OIL HEATERS, GASOLINE COOKSTOVE, AND HOT-AIR FURNACES. MARSHALL-WELLS COMPANY, Duluth, Minn.
Filed April 9, 1923. Serial No. 178,855. PUBLISHED JULY 24, 1923.

174,904. STOVES. SUMMERFIELD COMPANY, Boston, Mass.
Filed April 9, 1923. Serial No. 178,883. PUBLISHED JULY 24, 1923.

174,905. TITLE TO A MONTHLY PUBLICATION. WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y.
Filed April 10, 1923. Serial No. 178,941. PUBLISHED JULY 31, 1923.

174,906. SPARK TIMERS FOR INTERNAL-COMBUSTION ENGINES. THE UPCO MANUFACTURING AND SALES COMPANY, Cincinnati, Ohio.
Filed April 11, 1923. Serial No. 179,017. PUBLISHED JULY 31, 1923.

174,907. SHEET-METAL TOYS. THE TIN DECORATING COMPANY OF BALTIMORE, Baltimore, Md.
Filed April 12, 1923. Serial No. 179,068. PUBLISHED JULY 31, 1923.

174,908. CANDY. UNIVERSAL THEATRES CONCESSION CO., Chicago, Ill.
Filed April 12, 1923. Serial No. 179,070. PUBLISHED JULY 31, 1923.

174,909. CANDY. UNIVERSAL THEATRES CONCESSION CO., Chicago, Ill.
Filed April 12, 1923. Serial No. 179,072. PUBLISHED JULY 31, 1923.

174,910. DRESS SHIELDS. I. B. KLEINERT RUBBER COMPANY, New York, N. Y.
Filed April 13, 1923. Serial No. 179,105. PUBLISHED JULY 31, 1923.

174,911. SOAPS. LIGHTFOOT SCHULTZ COMPANY, Hoboken, N. J.
Filed April 13, 1923. Serial No. 179,108. PUBLISHED JULY 24, 1923.

174,912. SALTED NUT MEATS. NATIONAL NUT PRODUCTS CO., INC., New York, N. Y.
Filed April 13, 1923. Serial No. 179,109. PUBLISHED JULY 31, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

174,913. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CARL F. DOERR, New York, N. Y. Filed July 22, 1922. Serial No. 167,227.

EUREKA

Particular description of goods.—Glass Cutter.
Claims use since July 15, 1922.

174,914. (CLASS 37. PAPER AND STATIONERY.) MANCHESTER BOARD & PAPER CO., INC., Richmond, Va. Filed July 19, 1922. Serial No. 167,089.

"RIGID"

Particular description of goods.—Cloth Boards.
Claims use since August, 1910.

174,915. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BASSETT JEWELRY CO., Providence, R. I. Filed July 17, 1922. Serial No. 166,978.

RUSTLESS

Particular description of goods.—Pocketknives.
Claims use since Apr. 26, 1922.

174,916. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TROY MILK PRODUCTS COMPANY, East Troy, Wis. Filed June 21, 1922. Serial No. 165,836.

SAFETY

Particular description of goods.—Evaporated Milk.
Claims use since May 12, 1922.

174,917. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) DUESENBERG AUTOMOBILE & MOTORS CO., INC., Indianapolis, Ind. Filed June 8, 1922. Serial No. 165,185.

STRAIGHT 8

Particular description of goods.—Pleasure Motor Cars and Racing Cars.
Claims use since Nov. 1, 1920.

174,918. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARCHIONY BROTHERS, INC., New York, N. Y. Filed May 31, 1922. Serial No. 164,711.

MARCHIONY

Particular description of goods.—Ices, Ice Cream, Ice-Cream Cones, Ice-Cream Sandwiches.
Claims use since January, 1920.

174,919. (CLASS 26. MUSICAL INSTRUMENTS AND SUPPLIES.) GENERAL PHONOGRAPH CORPORATION, New York, N. Y. Filed May 19, 1922. Serial No. 164,105.

PETMECKY

Particular description of goods.—Needles for Talking Machines and Phonograph Needles.
Claims use since on or about 1907.

174,920. (CLASS 15. OILS AND GREASES.) THE PURE OIL CO., Columbus, Ohio. Filed May 17, 1922. Serial No. 164,002.

PURE-POWER

Particular description of goods.—Gasoline.
Claims use since Apr. 1, 1921.

174,921. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HARDINGE COMPANY, INC., New York, N. Y. Filed May 10, 1922. Serial No. 163,620.

HARDINGE

Particular description of goods.—Ball and Pebble Mills.
Claims use since 1911.

174,922. (CLASS 37. PAPER AND STATIONERY.) G. GOLDBERG & SONS, New York, N. Y. Filed May 4, 1922. Serial No. 163,333.

STANDARD G QUALITY

MONEYS WORTH

Particular description of goods.—Writing Paper, Envelopes, Tablets, and Blank Books.
Claims use since Apr. 14, 1922.

174,923. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) BUFFALO WEAVING & BELTING CO., Buffalo, N. Y. Filed May 1, 1922. Serial No. 163,132.

NIAGARA

Particular description of goods.—Brake Lining.
Claims use for not less than one year.

174,924. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES A. DOSCHER, doing business as The Eagle Products Company, Rochester, N. Y. Filed Apr. 19, 1922. Serial No. 162,534.

PIERPONT

Particular description of goods.—Coffee.
Claims use since Jan. 16, 1922.

174,925. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NISSLY SWISS CHOCOLATE COMPANY, INC., Florin, Pa. Filed Mar. 27, 1922. Serial No. 161,331.

Nissly's

The lining on the drawing is intended to represent the color green.
Particular description of goods.—Milk Chocolate and Almond Chocolate.
Claims use since Apr. 1, 1921.

174,926. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) G. B. LEWIS COMPANY, Watertown, Wis. Filed Mar. 14, 1922. Serial No. 160,671.

MODIFIED DADANT

Particular description of goods.—Beehives.
Claims use since Oct. 21, 1919.

174,927. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLARA BELLE CHEEKS, doing business as Cheeks & Co., New York, N. Y. Filed Feb. 20, 1922. Serial No. 159,561.

SKIN BLEACH WASH

CHEEKS & CO.

Particular description of goods.—Face Wash or Lotion.
Claims use since June, 1920.

174,928. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ART NEEDLE M'F'G. CO., INC., New York, N. Y. Filed Jan. 10, 1922. Serial No. 157,708.

SUPERIOR

Particular description of goods.—Hand Embroidery Needles for Producing Tufted, Loop Stitch, Chenille, Embroidery, and Punch Needle Work.
Claims use since Sept. 1, 1920.

174,929. (CLASS 37. PAPER AND STATIONERY.) THE NU-TYPE MFG. COMPANY, Chicago, Ill. Filed Aug. 13, 1921. Serial No. 151,771.

NU-POINT

Particular description of goods.—Mechanical Pencils.
Claims use since July, 1921.

174,930. (CLASS 37. PAPER AND STATIONERY.) HERMAN G. POHLMANN, Chicago, Ill. Filed June 8, 1921. Serial No. 148,852.

BEDFORD

Particular description of goods.—Writing Paper.
Claims use since Jan. 1, 1913.

174,931. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CONSOLIDATED RENDERING CO., Boston, Mass. Filed Apr. 30, 1921. Serial No. 147,015.

PEER LESS

Particular description of goods.—Tallow, a Basic Material Used in Making Soap.
Claims use since 1901.

LABELS

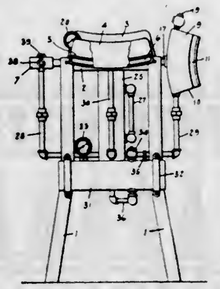
REGISTERED OCTOBER 23, 1923.

26,501.—*Title:* LEZAK MALT EXTRACT. For Malt Extract. EDWARD J. SUEHLA, Chicago, Ill. Published August 7, 1923.

REISSUES

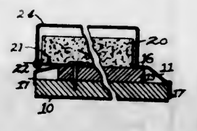
OCTOBER 23, 1923.

15,701. VULCANIZER. NEWTON MERRITT ANDERSON, Indianapolis, Ind., assignor, by mesne assignments, to Thomas Bemis, sr., Thomas Bemis, jr., and Ruth Bemis, trustees of Anderson Steam Vulcanizer Company, Indianapolis, Ind., a Real Trust. Filed Sept. 6, 1919. Serial No. 322,191. Original No. 1,266,901, dated May 21, 1918, Serial No. 90,180, filed Apr. 10, 1916. 4 Claims. (Cl. 18—18.)



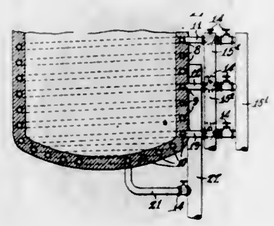
1. A device of the class described comprising a frame, legs depending from the frame at the corners thereof, a connection located within the contour of the frame, pipes radiating from the connection and cooperating with the connection to form a cross having arms, the pipes being supported by the side portions of the frame, intermediate of the legs, molds carried by the outer ends of the pipes and located exteriorly of the frame, a boiler disposed within the contour of the frame, a conduit leading from the boiler to the connection and constituting a support for the boiler, and return pipes leading from the molds to the boiler.

15,702. STAMP-PAD BOX. CARL C. HARRIS, Orange, Mass., assignor to Rivet-O Manufacturing Company, a Corporation of Massachusetts. Filed June 18, 1923. Serial No. 646,111. Original No. 1,448,213, dated Mar. 13, 1923, Serial No. 545,830, filed Mar. 22, 1922. 8 Claims. (Cl. 91—54.5.)



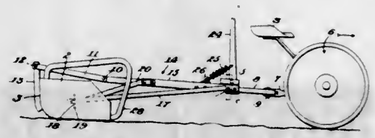
1. As an article of manufacture, a stamp pad box comprising a base of wood fiber, a covering over the edges and around the perimeter of the top thereof and having an opening therethrough, and a stamp pad in one piece firmly secured through said opening to the fiber board base and projecting over the edges of said opening to conceal the same.

15,703. TEMPERATURE CONTROL OF KETTLES BY ZONES. JOHN GEORGE LEHMAN, Bethlehem, Pa., assignor to Bethlehem Foundry & Machine Company, Bethlehem, Pa., a Corporation of Pennsylvania. Original No. 1,407,666, dated Feb. 21, 1922, filed Sept. 27, 1919, Serial No. 327,007, now Reissue Patent No. 15,665, dated July 31, 1923, filed Oct. 12, 1922, Serial No. 594,170. Divided and this application for reissue filed July 28, 1923. Serial No. 654,497. 5 Claims. (Cl. 257—211.)



1. In a device for treating liquids, a container having fluid passages in the solid walls thereof, adapted to form a continuous passage, and a plurality of points of inlet to and an outlet from said passages, all passing through the walls of the kettle at different points, in combination with controlled fluid supply for the inlets whereby fluid can be passed from any inlet to the outlet, thus passing through all or a portion only of said passages.

15,704. AUTOMATIC ROAD AND SURFACE SCRAPER. JOSEPH S. REYNOLDS, Santa Barbara, Calif. Filed Aug. 13, 1923. Serial No. 657,263. Original No. 1,368,838, dated Feb. 15, 1921, Serial No. 352,902, filed Jan. 20, 1920. 7 Claims. (Cl. 37—124.)



1. The combination with a tractor having a draft device, of an earth scraper of the shovel type, and a setting and tripping draft connection between the tractor and said earth scraper, whereby when the tractor is advanced said connection interlocks at selective positions to determine the effective ground engaging angle of said earth scraper.

DESIGNS

OCTOBER 23, 1923.

63,152. ASH TRAY. IRA M. CLARKE, New Martinsville, W. Va., assignor to New Martinsville Glass Mfg. Co., New Martinsville, W. Va., a Corporation of Virginia. Filed Nov. 28, 1922. Serial No. 4,436. Term of patent 7 years.



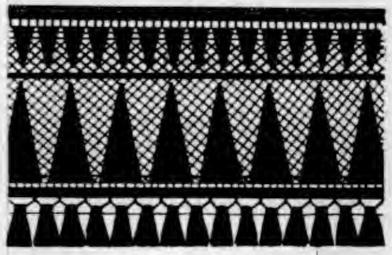
The ornamental design for an ash tray as shown.

63,153. LACE. SAMUEL H. PAGE, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed May 4, 1923. Serial No. 6,067. Term of patent 14 years.



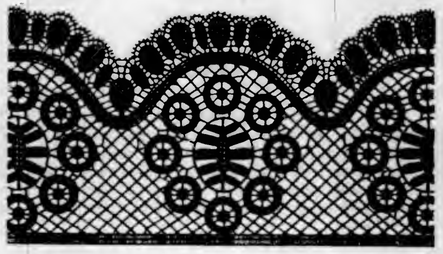
The ornamental design for lace substantially as shown.

63,154. LACE. SAMUEL H. PAGE, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed May 4, 1923. Serial No. 6,069. Term of patent 14 years.



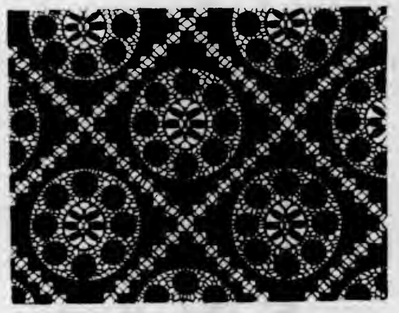
The ornamental design for lace substantially as shown.

63,155. LACE. SAMUEL H. PAGE, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed May 4, 1923. Serial No. 6,070. Term of patent 14 years.



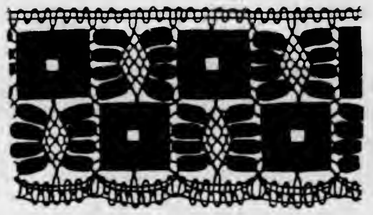
The ornamental design for lace substantially as shown.

63,156. LACE. SAMUEL H. PAGE, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed May 8, 1923. Serial No. 6,112. Term of patent 14 years.



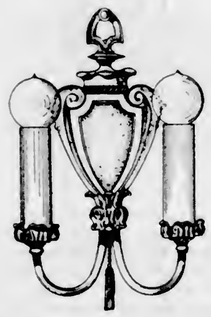
The ornamental design for lace substantially as shown.

63,157. LACE. HANS ALBERT PHILIPS, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed Apr. 25, 1923. Serial No. 5,940. Term of patent 14 years.



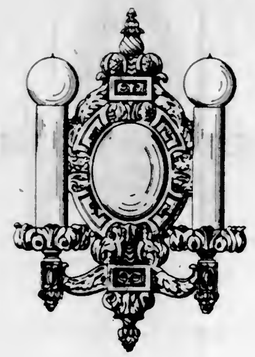
The ornamental design for lace substantially as shown.

63,158. LIGHTING FIXTURE. EDGAR A. WANGERSHEIM, Chicago, Ill., assignor to General Lighting Fixture Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 27, 1923. Serial No. 5,007. Term of patent 7 years.



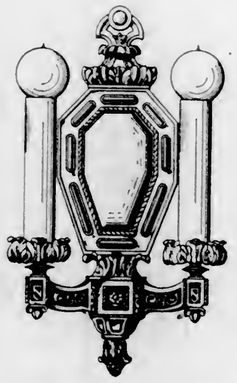
The ornamental design for a lighting fixture, as shown.

63,159. LIGHTING FIXTURE. EDGAR A. WANGERSHEIM, Chicago, Ill., assignor to General Lighting Fixture Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 27, 1923. Serial No. 5,008. Term of patent 7 years.



The ornamental design for a lighting fixture, as shown.

63,160. LIGHTING FIXTURE. EDGAR A. WANGERSHEIM, Chicago, Ill., assignor to General Lighting Fixture Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 27, 1923. Serial No. 5,009. Term of patent 7 years.



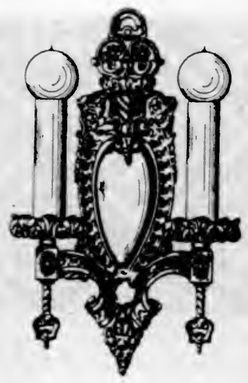
The ornamental design for a lighting fixture as shown.

63,161. LIGHTING FIXTURE. EDGAR A. WANGERSHEIM, Chicago, Ill., assignor to General Lighting Fixture Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 27, 1923. Serial No. 5,010. Term of patent 7 years.



The ornamental design for a lighting fixture, as shown.

63,162. LIGHTING FIXTURE. EDGAR A. WANGERSHEIM, Chicago, Ill., assignor to General Lighting Fixture Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 27, 1923. Serial No. 5,011. Term of patent 7 years.

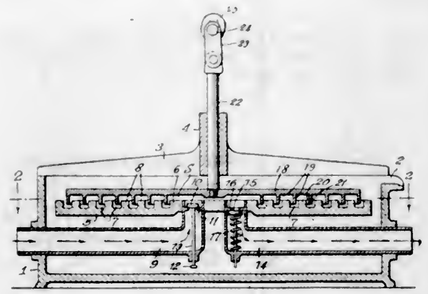


The ornamental design for a lighting fixture, as shown.

PATENTS

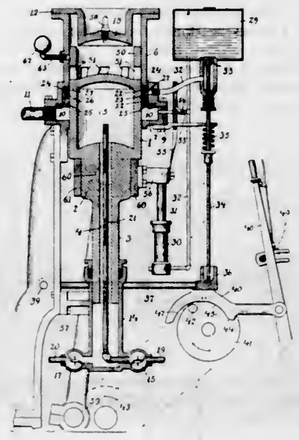
GRANTED OCTOBER 23, 1923.

1,471,320. PUMP OR PRIME MOVER. FRANK L. ANTISELL, Perth Amboy, N. J. Filed July 3, 1920. Serial No. 393,958. 12 Claims. (Cl. 103—153.)



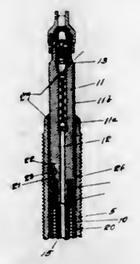
1. The herein described process which comprises setting fluid in motion toward an expanding chamber and utilizing the inertia of said fluid to resist leakage from said chamber.

1,471,321. INTERNAL-COMBUSTION ENGINE. LEONARD ATWOOD, Boston, Mass. Filed Aug. 27, 1920. Serial No. 406,329. 13 Claims. (Cl. 123—32.)



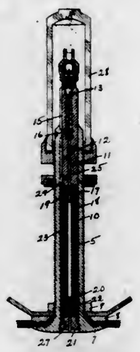
1. An internal combustion engine comprising a cylinder, a piston reciprocative therein, the diameter of said piston being less than that of the cylinder to provide a slight annular space between them, means carried by the cylinder for packing its open end to prevent the escape of the charge past the piston, and means for introducing a fuel oil into said annular space during the return stroke of the piston.

1,471,322. PRESSURE GAUGE FOR TIRES. ALFRED BADOWSKI, Charleston, W. Va., assignor, by mesne assignments, to Tiregage Valve Corporation, Charleston, W. Va., a Corporation of West Virginia. Filed July 15, 1921. Serial No. 484,856. 4 Claims. (Cl. 152—12.)



4. In a pressure gauge for pneumatic tires, the combination with a stem; of a valve-carrying plunger in the stem subjected to tube pressure and movable in response to said pressure, said plunger having an axial opening extending inwardly from its end; a coil spring within the stem resisting the movement of the plunger, said spring having an axially extending end, said extending end having a deflection and projecting into the opening; and means for securing said end in said opening comprising an off-set in the walls of the opening registering with the deflection in the end.

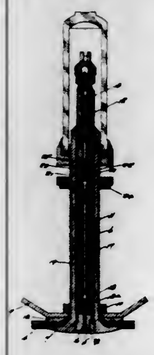
1,471,323. PRESSURE GAUGE FOR PNEUMATIC TIRES. ALFRED BADOWSKI, Charleston, W. Va. Filed July 23, 1921. Serial No. 487,145. 4 Claims. (Cl. 152—11.5.)



4. In a pressure gauge for pneumatic tires, the combination with a tire stem having a key therein of a valve carrying plunger in the stem connected with and subjected to tire pressure and movable in response to said pressure, said plunger having an axially extending keyway cooperating with the key in the stem and a hook receiving radially extending opening leading from the key way; and a coil spring within the stem resisting the

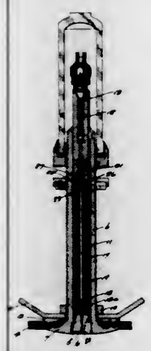
movement of the plunger, said spring having an axially extending hooked end hooked into said hook receiving opening, the axially extending portion of the stem extending along the key-way to the opening.

1,471,324. TIRE-STEM PRESSURE GAUGE. ALFRED BADOWSKI, Charleston, W. Va., assignor to Tirometer Valve Corporation of America, Charleston, W. Va., a Corporation of West Virginia. Filed Oct. 19, 1921. Serial No. 508,729. 5 Claims. (Cl. 152—11.5.)



1. In a tire stem pressure gauge, the combination with a sleeve; a plunger in the sleeve indicating by its movement the pressure in the sleeve, said plunger being provided with an inflation passage to which leads a screw-threaded opening; a rubber tube forming an extensible means of communication from the plunger to a stationary part of the sleeve; of a ring around the end of the tube detached but adjacent to the plunger; and a screw having its head within the tube clamping the rubber within the ring and extending into the screw-threaded opening in the plunger to secure the tube to the plunger.

1,471,325. TIRE-STEM PRESSURE GAUGE. ALFRED BADOWSKI, Charleston, W. Va., assignor to Tirometer Valve Corporation of America, Charleston, W. Va., a Corporation of West Virginia. Filed Oct. 19, 1921. Serial No. 508,729. 4 Claims. (Cl. 152—11.5.)

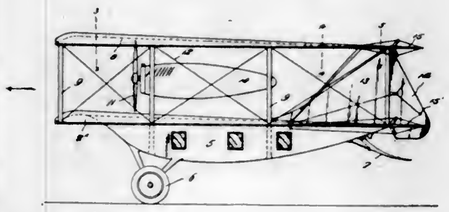


1. In a tire stem pressure gauge, the combination with a sleeve; a plunger in the sleeve indicating by its movement the inflation pressure in the sleeve, said plunger being provided with an inflation passage to which leads a screw-threaded opening; a rubber tube forming an extensible means of communication from the plunger to a stationary part of the sleeve; a screw screwed into the screw-threaded opening in the plunger and having a head arranged within the end of the rubber tube; of a ring having a tapered opening into which the end of the rubber tube projects, said tube being clamped in the ring and secured to the plunger by the screw.

1,471,326. WELDING ELECTRODE. JAMES P. COPLAND, Hudson, Ohio. Filed Nov. 12, 1921. Serial No. 514,760. 4 Claims. (Cl. 219—4.)

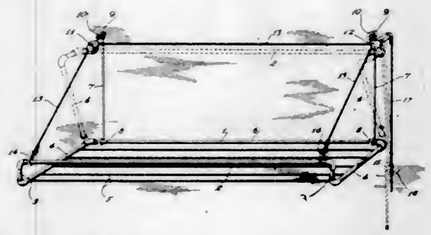
1. An electrode for electric welding consisting of a metal having a relatively low boiling point as compared with carbon and containing an appreciable amount of chromium.

1,471,327. AEROPLANE. ELMER L. CROZIER, Dayton, Ohio. Filed July 30, 1923. Serial No. 654,580. 1 Claim. (Cl. 244—14.)



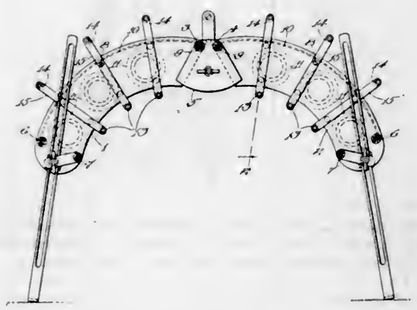
An aeroplane comprising a main fuselage having rigid upper and lower planes of elongated forms extending longitudinally thereof in spaced relation, an engine fuselage mounted between said planes and supporting a vertical propeller at its forward end between the forward end portion of said planes, said planes being of upwardly curved form in cross section to provide longitudinal recesses at the under sides thereof, said recesses being of major depth at the forward ends of the planes and gradually tapering shallower toward the rear ends of the plane, said planes being formed at their forward ends with a cross sectional form conforming to one-half of an elongated ellipse and with the points of greatest curvature thereof at the sides of the planes and converging rearwardly toward the center and assuming a flat form at the rear ends thereof.

1,471,328. CLOTHES DRIER. GEORGE F. DE GRASSE, Brooklyn, N. Y. Filed July 23, 1921. Serial No. 486,919. 2 Claims. (Cl. 68—34.)



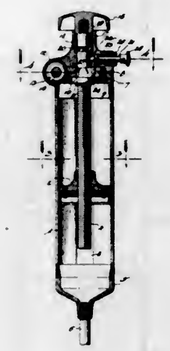
2. A drier embodying a substantially rectangular frame having side and end bars, a clothesline stretched longitudinally of the frame to permit the hanging of clothes thereon, means for pivotally supporting one side bar of the frame on a wall, whereby the frame may be swung into up or down positions, and an operating cable secured to the outer side bar of the frame for raising and lowering it into up and down positions, the end bars of the frame being extended upward at their outer ends and the outer side bar connected to said outer ends so that the outer side bar is elevated above the remaining part of the frame to preclude the clothes from being drawn against the wall when the frame is raised.

1,471,329. SURGICAL BAKER. WALTER S. EDMANDS, Boston, Mass. Filed Jan. 28, 1922. Serial No. 532,461. 9 Claims. (Cl. 174—177.)



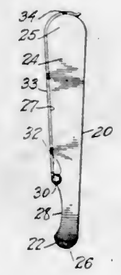
1. A surgical baker having a frame portion, heating elements mounted on the frame portion in position to have the heat directed toward the patient, and heat resisting members secured to the frame which protect the heating elements from coming in direct contact with the patient, the said heat resisting members having open spaces between them to permit passage of the heat to the patient.

1,471,330. GREASE GUN. ALBERT J. FARMER, Chicago, Ill. Filed Feb. 20, 1922. Serial No. 537,848. 8 Claims. (Cl. 221—79.)



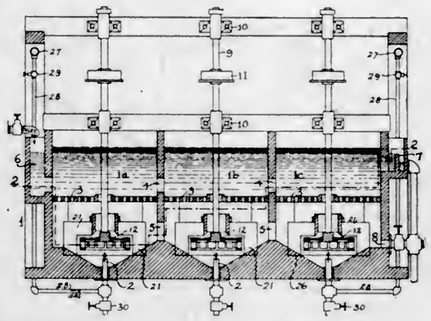
1. A device of the character described wherein a piston is reciprocated by a rotatable stem and wherein said stem is rotated at a low speed by driving means including a member slidably engaged by the stem, and means for turning the stem independently of said driving means, said means facilitating sliding said stem relative to said member for disengaging said stem from said member to permit independent rotation of the stem by said turning means.

1,471,331. MATCH RECEPTACLE. FRANZ A. FULLER, Newark, N. J., assignor to The J. E. Mergott Company, Newark, N. J., a Corporation of Delaware. Filed Sept. 17, 1920. Serial No. 410,826. 3 Claims. (Cl. 206—33.)



3. A match receptacle comprising a hollow body having straight sides recessed at one end thereof, a cover plate hinged to said sides at a point approximately one third of the distance between the ends of the body and adapted to overlie the unrecessed portion of the sides.

1,471,332. APPARATUS FOR TREATING LIQUIDS WITH GASES. WILLIAM E. GREENAWALT, Denver, Colo. Filed Sept. 26, 1921. Serial No. 503,463. 13 Claims. Cl. 261—93.)

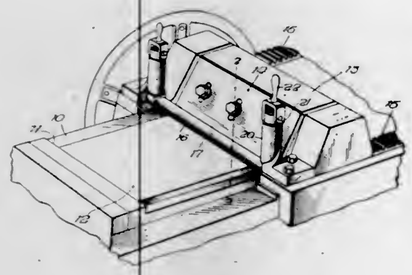


1. In apparatus for treating liquids with gases, a tank adapted to contain liquid, a rotary skeleton member suspended within the tank and submerged in the liquid, said rotary skeleton member being comprised of a hub attached to the shaft, a peripheral cylinder or ring and radial arms connecting the hub with the peripheral cylinder, a fluid permeable member attached to the hub and to the peripheral cylinder in removable relation thereto, and means for supplying gas to the interior of the tank through a submerged stationary gas inlet.

1,471,333. WORKHOLDER FOR CUTTING OR DRESSING MACHINES. HENRY A. HERR, Chicago, Ill., assignor to Acme Electrotype Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 1, 1922. Serial No. 548,574. 3 Claims. (Cl. 90—24.)

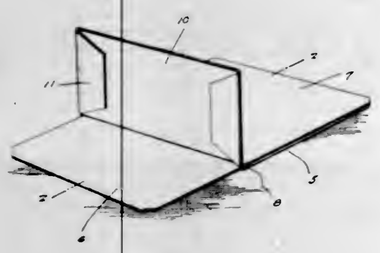
3. In combination, an electrotype supporting bed, a cutter, said cutter and bed being movable over the work, said cutter and bed being relatively movable, one with rela-

tion to the other, a holding roller movable with the cutter and with respect thereto and adapted to engage and rest upon the electrotype adjacent the plane of operation of



the cutter thereupon, and means for causing the roller to exert pressure upon the electrotype, the electrotype engaging surface of the roller being yieldable to compensate the irregularities of the surface of the electrotype.

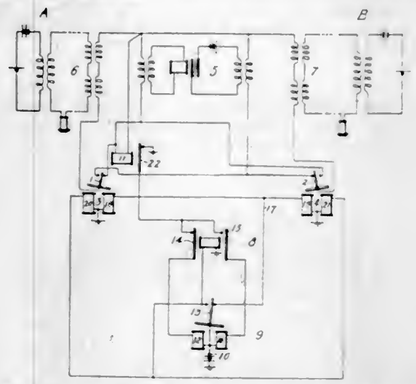
1,471,334. DISPLAY STAND. MOE HOPPER, Kansas City, Mo. Filed Aug. 10, 1922. Serial No. 580,945. 1 Claim. (Cl. 40—148.)



A display stand comprising a base member provided at the forward edge with an integral vertically disposed card retaining portion having the side edges thereof bent, the side and rear edges of the base member being bent to provide inwardly directed flanges underlying the base member in spaced relation thereto and a supplemental base member having its side edges disposed in telescoping engagement with the flanged sides of the first mentioned base member, the forward edge of the supplemental member being bent to provide an inwardly directed flange lying in the plane of the first mentioned flanges, whereby the base members, in extended position, are adapted to rest evenly on a flat support.

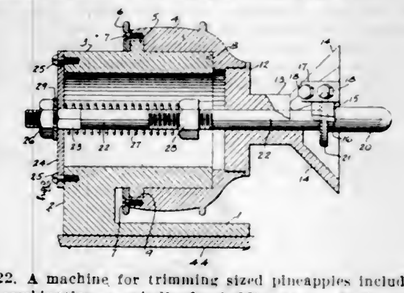
1,471,335. SIGNALING SYSTEM AND METHOD OF OPERATING THE SAME. EDGAR D. JOHNSON, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 24, 1918, Serial No. 213,523. Renewed Aug. 7, 1923. 36 Claims. (Cl. 179—170.)

1. The combination of two lines, a repeater therebetween, and means for automatically reversing the connections of said repeater to said lines, independently of the impression on said lines of direct current and of current to be repeated.



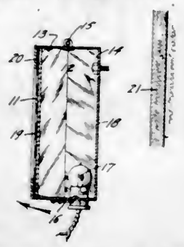
29. A two-way repeater system comprising two lines, a repeater therefor, a relay controlling the connection of said repeater to said lines, and means for automatically connecting said relay alternately across said lines.

1,471,336. PINEAPPLE-TRIMMING MACHINE. MAXWELL O. JOHNSON, Waipio, and ROBERT H. LOWRIE, Honolulu, Territory of Hawaii. Filed Jan. 26, 1921. Serial No. 440,108. 29 Claims. (Cl. 146—6.)



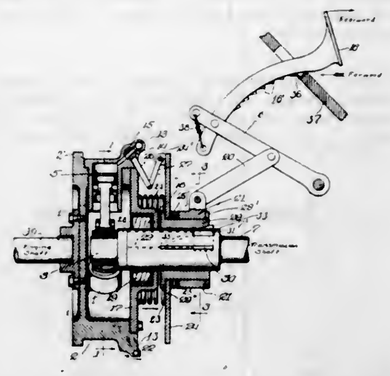
22. A machine for trimming sized pineapples including in combination a spindle for holding a cored pineapple against rotating by fitting frictionally within the previously formed core opening, and a rotating rind-peeling knife.

1,471,337. ILLUMINATED INDICATOR. PAUL A. JOHNSON, Denver, Colo. Filed Apr. 28, 1923. Serial No. 635,308. 4 Claims. (Cl. 40—133.)



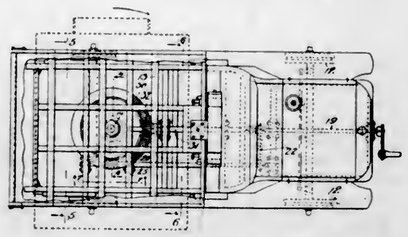
1. Indicating means comprising a plate having cut out characters; a translucent plate behind the former plate, said translucent plate being white on the front face and colored on the rear face and means for illuminating the rear of said translucent plate.

1,471,338. HYDRAULIC CLUTCH. CHARLES N. KAHL, Jacksonville, Ill. Filed May 4, 1921. Serial No. 466,859. 7 Claims. (Cl. 192—60.)



5. In a device of the character described, a pair of shafts disposed in alinement, and readily controlled means for transmitting power from one of said shafts to the other, said means comprising a radially positioned pump of the cylinder and piston type carried by one of said shafts and a crank-pin member carried by the other to actuate said pump, said member having a pair of oppositely disposed mutually eccentric parallel pivotal parts, one of which is disposed eccentrically in the said other shaft and the other said pivotal part being movable to and from concentricity with said shafts and serving as a crank-pin to coact with the piston of said pump, and manual control means to rotatably adjust the position of said member relative to said other shaft, whereby the eccentricity of said crank-pin may be varied.

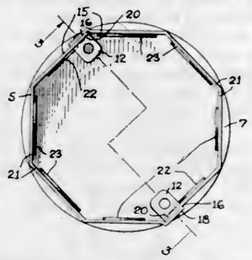
1,471,339. DUMPING-TRUCK APPARATUS. YOKICHI KINOSHITA, Boston, Mass. Filed June 4, 1921. Serial No. 474,923. 13 Claims. (Cl. 298—9.)



1. In a dumping truck structure, the combination with a chassis frame and its supporting wheels, of a turntable mounted thereon, a vertically tilting platform hinged to said turntable, means to rotatively move said turntable horizontally upon the chassis frame, a stop adjustably mounted on the chassis frame to arrest the rotative movement of said turntable in any desired angular position, and means effective when the rotative movement of the table is arrested to vertically tilt said platform.

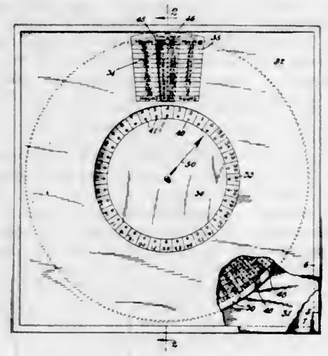
1,471,340. OUTLET OR JUNCTION BOX. JULIAN GORDON KNIGHT, Brooklyn, N. Y. Filed Sept. 15, 1921. Serial No. 500,916. 6 Claims. (Cl. 247—15.)

1. An octagonal sided outlet or junction box having eight flat sides with knockouts in all such eight angularly related sides, said knockouts being of two different sizes and arranged with those of one size in a group of three



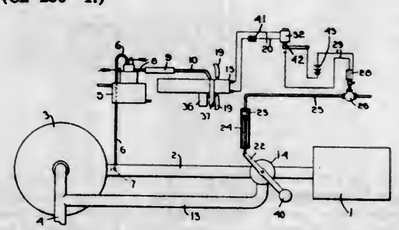
with one opposite and those of the other size grouped in pairs at opposite sides of the single knockout of the first size.

1,471,341. TIME CALCULATOR. SIDNEY R. LAMB, New York, N. Y. Filed June 6, 1919. Serial No. 302,135. 8 Claims. (Cl. 235—88.)



1. In a calculating appliance, the combination of a fixed scale, a movable member bearing a scale and also provided with a perforation, a device adjustable on the movable member and provided with a pin adapted to pass through the perforation and extend below it, and a member beneath said movable member having a bearing surface engaged by the end of the pin and also having a depression adapted to be entered by the end of the pin to assist in stopping the movable member at a predetermined point.

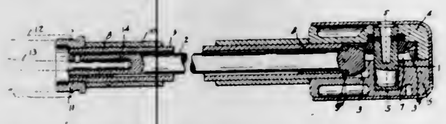
1,471,342. MEANS FOR CONTROLLING PROCESSES OF PRODUCTION. LLOYD LOGAN, Arlington, Mass. Filed Apr. 30, 1920. Serial No. 377,780. 7 Claims. (Cl. 250—1.)



1. The combination with means for treating inanimate material during its process of manufacture whereby it undergoes some change, of separate means for producing

radiant energy of a character which is affected by factors affecting such treatment of the material, but which does not of itself produce the above-mentioned change in the material, means to subject a portion at least of the material to the action of said radiant energy, whereby variations in such factors cause distinctive variations in said radiant energy, and means controlled by said variations to exercise control over the process.

1,471,343. ANGLE DRILL. SAMUEL E. LORENZ, Detroit, Mich., assignor to Electric Welding Machine Company, Detroit, Mich., a Copartnership Firm. Filed June 23, 1921. Serial No. 479,780. 4 Claims. (Cl. 77—7.)



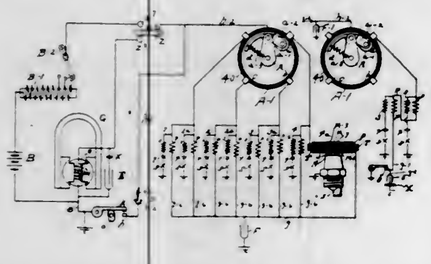
1. In an angle drill, the combination with a rotative socket member and a driving shaft for said member substantially transverse therewith, a two-part head in which the socket member is journaled, a tubular casing for said shaft adjustably embraced between the parts of said head, journal bearings for said shaft within the end portions of said casing, and gearing within said head actuating the socket member from said shaft.

1,471,344. INSECT-REPELLENT COMPOSITION. HENRI LOUDIN, Quebec, Quebec, Canada. Filed Apr. 6, 1921. Serial No. 459,188. 4 Claims. (Cl. 167—6.)

2. The method of making an insect repellent which comprises uniting and mixing equal parts of phenyl salicylate and camphor to complete liquefaction and then adding medicinal petrolatum oil to the desired degree.

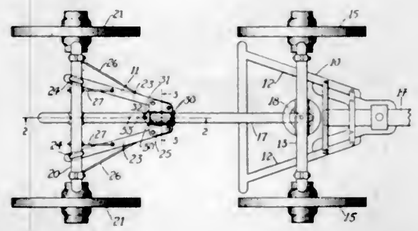
4. As an article of manufacture an insect repellent comprising equal parts of phenyl salicylate and camphor mixed to a state of liquefaction and having incorporated therewith white medicinal petrolatum.

1,471,345. ELECTRICAL IGNITION SYSTEM FOR INTERNAL-COMBUSTION ENGINES. JOHN LEWIS MILTON, Cleveland, Ohio, assignor to Motor Ignition & Devices Company, a Corporation of West Virginia. Filed June 14, 1912, Serial No. 703,703. Renewed Jan. 25, 1918. Serial No. 213,826. 12 Claims. (Cl. 123—148.)



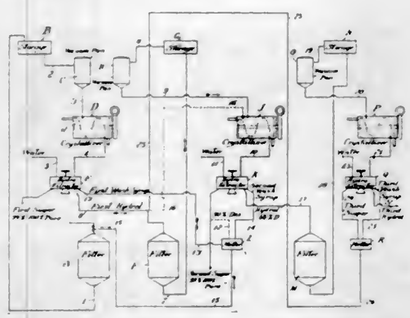
1. In an electric ignition system for internal combustion engines, a primary circuit including a source of current, an interrupter and a distributer, a plurality of transformers, each having connection with a contact of said distributer, so that the primary winding thereof may be included in said primary circuit, a plurality of secondary circuits, each having a secondary winding in association with one of said primary windings, and a spark gap between said secondary winding and the spark plug electrodes in the cylinder, a shunt circuit bridging said interrupter and including a condenser and a primary spark gap, and a condenser connected in shunt of the armature winding.

1,471,346. ADJUSTABLE REACH BAR. JAMES A. MOXEY, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Sept. 7, 1920. Serial No. 408,664. 2 Claims. (Cl. 280—141.)



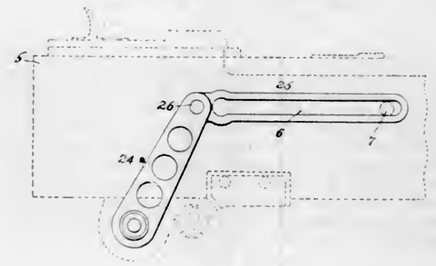
1. In a running gear for wagons, the combination of an axle, a bolster, a bearing formed between the axle and bolster, hounds secured at their rear ends to the axle and bolster, hound plates providing a cylindrical bearing secured to the forward ends of the hounds, a sleeve journaled in the hound plate bearing and having a flange at each end adapted to bear on the ends of the hound plates, the sleeve having opposite perforations in one end beyond the plates, a reach bar slidable in the sleeve and rear bearing, and means extending through the reach bar and the perforations in the sleeve for adjustably securing the reach bar to the sleeve.

1,471,347. METHOD OF MAKING GRAPE SUGAR. WILLIAM B. NEWKIRK, Edgewater, N. J., assignor to Corn Products Refining Company, a Corporation of New York. Filed Nov. 16, 1922. Serial No. 601,302. 24 Claims. (Cl. 127—10.)



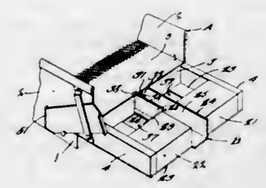
1. The process of obtaining grape sugar in a crystalline state from a dextrose solution produced by conversion of starch which comprises concentrating the solution to super-saturation by heating in vacuo, cooling the solution to and holding the same at a crystallizing temperature, separating the mother liquor from the dextrose crystals, subjecting the mother liquor to a crystallizing temperature at a corresponding density substantially as specified for a second yield of crystals, and thereafter making a separation between the mother liquor and the crystals last formed therein.

1,471,348. CHARGING DEVICE FOR MACHINE GUNS. CHARLES L. PAULES, Dayton, Ohio. Filed Mar. 21, 1923. Serial No. 626,532. 4 Claims. (Cl. 89—27.)



1. A manually operable, quick detachable charging mechanism for flexibly mounted machine guns comprising a shaft extending transversely of the gun frame, a crank arm on said shaft at one side of gun having means to retract the bolt of the gun, and a hand operated lever on said shaft at the opposite side of the gun.

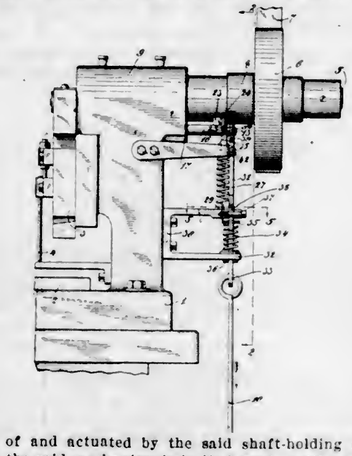
1,471,349. TOLLER. THOMAS F. PERKINS, Atlanta, Tex. Filed Mar. 29, 1920. Serial No. 369,621. 3 Claims. (Cl. 73—21.)



1. In a device of the class described, a main chute comprising side strips and an end piece located therebetween; a closure projecting inwardly from one side strip; a toll chute comprising an L-shaped member extended from the closure to the end piece and including a bottom and a side; a plate cooperating with the closure to form the other side of the chute, the plate including projecting parts cooperating respectively with the rear surface of the closure and with the forward surface of the end piece; and means for securing said parts of the plate to the closure and to the end piece adjustably, to permit the distance between the plate and said side of the chute to be adjusted.

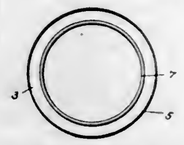
1,471,350. SAFETY DEVICE FOR POWER PRESSES. ABRAHAM PIASER, Elmhurst, N. Y., assignor to Rosenwasser Bros. Inc., Astoria, Long Island, N. Y., a Corporation of New York. Filed Dec. 18, 1919. Serial No. 345,853. 4 Claims. (Cl. 192—25.)

1. The combination in a power press, of a revoluble shaft, a power driven pulley loose on the shaft, treadle-operated mechanism for connecting and disconnecting the pulley and shaft, means for holding the shaft against rotation by friction from the loose pulley comprising a projecting member on the shaft, a device carried by the said treadle-operated mechanism for positively limiting the movement of the said shaft-holding means and shaft when the treadle-operated mechanism is in its highest position, the said mechanism having a member arranged in the



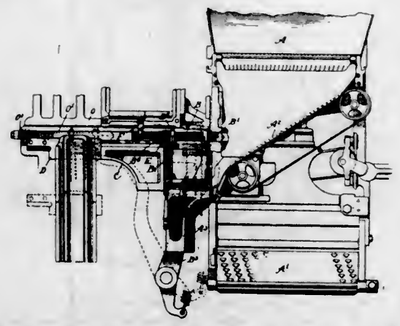
path of and actuated by the said shaft-holding member when the said mechanism is in its lowest position whereby the said pulley and shaft are disconnected.

1,471,351. LENS. ARTHUR PELLOW, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Apr. 4, 1921. Serial No. 458,242. 4 Claims. (Cl. 88—54.)



1. As an article of manufacture, a lens blank having integral means formed on the face thereof for initial engagement with a grinding tool, said means being disposed intermediate the center and edge of the lens and positioned to balance the lens on the grinding tool at the start of the grinding operation.

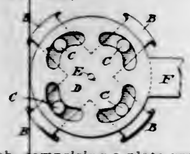
1,471,352. TYPOGRAPHICAL MACHINE. EDWIN W. PIERSON, Newark, N. J., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed July 27, 1922. Serial No. 577,858. 12 Claims. (Cl. 199—32.)



1. In a typographical machine, the combination with a movable line transfer carriage having two fingers to engage the line at opposite ends, of means mounted on the

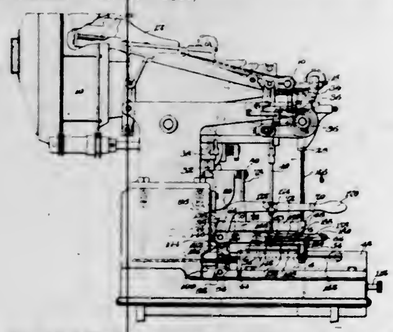
carriage and acting during the transfer movement thereof to permit the two fingers to approach each other in confining the line between them and thereafter to lock the fingers against separation.

1,471,353. FRUIT-JAR WRENCH. ALBERT PIHL, Murray, Utah. Filed Sept. 16, 1922. Serial No. 588,615. 4 Claims. (Cl. 81—3.1.)



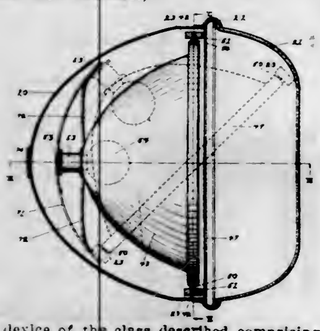
1. A jar wrench, comprising a plate provided with radial grooves, jaws mounted to slide radially in said grooves and carrying jaw operating pins, and a plate pivotally connected with the jaw carrying plate formed with slots into which the pins extend and the middle portions of which are further from the center of the plates than their ends.

1,471,354. DISTRIBUTING APPARATUS. JOSEPH H. POPE, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 20, 1919. Serial No. 305,466. 32 Claims. (Cl. 10—163.)



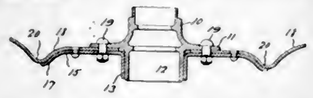
1. In a distributing apparatus, a receiver having series of article-holding devices disposed in differently arranged sets and with the devices of each set extending between those of another set.

1,471,355. HEADLIGHT. TRUMAN W. POST, New York, N. Y., assignor to Electric Auto-Lite Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Nov. 5, 1917, Serial No. 200,320. Renewed Mar. 15, 1923. 14 Claims. (Cl. 240—41.)



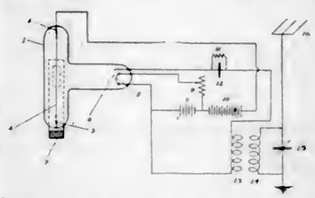
1. A device of the class described comprising the combination of a casing; a reflector mounted in said casing and rotatable on a fixed vertical axis and on a horizontal axis; and means for limiting the rotation of said reflector on said horizontal axis.

1,471,356. DISK WHEEL. MARCELLUS REID, Cleveland, Ohio. Filed Jan. 7, 1921. Serial No. 435,663. 1 Claim. (Cl. 301—63.)



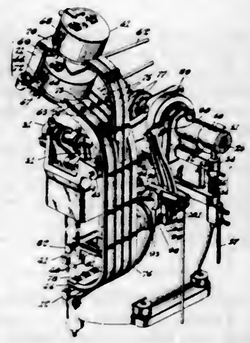
The combination with a hub having a barrel portion and a radial flange, of a central supporting member having an inwardly turned flange at its inner edge resting upon the barrel portion of the hub, the outer portion of said member being curved inwardly and a disk having its inner portion arranged between the central member and the hub flange and connected to said flange and member, said disk being curved inwardly to contact with the inwardly curved portion of the central supporting member and then curved outwardly and a rim connected to the outer edge of said disk.

1,471,357. ELECTRICAL IMPULSE INDICATOR. SAMUEL RUBEN, New York, N. Y. Filed Mar. 15, 1922, Serial No. 543,895. Renewed Mar. 19, 1923. 10 Claims. (Cl. 234—1.5.)



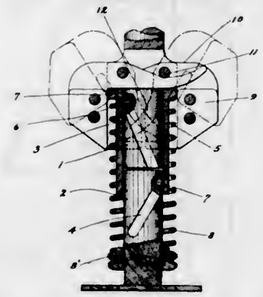
1. An apparatus of the character described comprising, in combination, a source of light, a vacuum tube apparatus comprising a vibratory anode and means for affecting the character of the vibrations thereof, and indicating means responsive to the vibration of said anode.

1,471,358. FASTENER-INSERTING MACHINE. FRED A. RUMNEY, Cambridge, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 27, 1919. Serial No. 326,771. 35 Claims. (Cl. 218—0.5.)



5. A fastener-setting machine comprising two mechanisms constructed and arranged to cooperate with each other and to operate independently of each other at will, one to punch a hole in the work and insert a fastener therein by successive cycles of motion, and the other to present the fastener between such cycles in position to be inserted, the first-defined of said mechanisms including a stationary punch to hold the work from the time when the hole is punched until the fastener is inserted therein.

1,471,359. AUTOMATIC ADVANCE FOR SYNCHRONIZING GUN CONTROL. HERBERT O. RUSSELL, Detroit, Mich., and CHARLES LEIGH PAULUS, Dayton, Ohio. Filed Mar. 2, 1922. Serial No. 540,507. 3 Claims. (Cl. 89—27.)



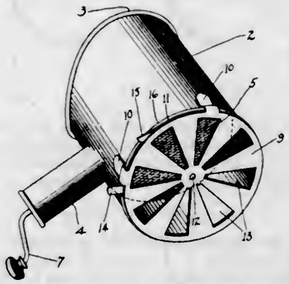
3. In synchronizing gun control, a rotary impulse generator shaft embodying axially aligned sections having reversely inclined grooves, and a centrifugally controlled sleeve surrounding and slidable over the adjacent portions of the shaft sections and having means operating in the grooves thereof to vary the lead of one shaft section relatively to the other.

1,471,360. STRAP FASTENER FOR EYEGLASSES. HARRY A. SANGREN, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Apr. 18, 1922. Serial No. 555,203. 5 Claims. (Cl. 88—42.)



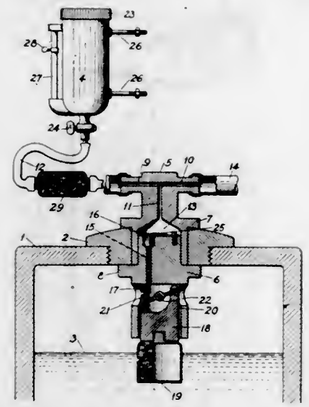
1. A device of the class described, including in combination a lens, a strap engaging the edge of the lens, a resilient stirrup including spaced V-shaped members adapted to be arranged upon opposite sides of the lens, cross portions connecting said V-shaped members and having engagement with the strap, looped portions at the ends of the V-shaped members and a pin carried by the lens having its ends channeled and engaged with said looped portions.

1,471,361. FLOUR SIFTER. SYLVIA B. SARLES, Hillsboro, N. Dak. Filed June 1, 1920. Serial No. 385,626. 3 Claims. (Cl. 83—60.)



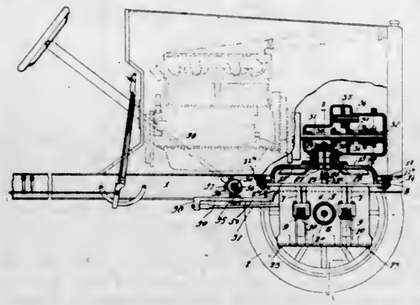
1. The combination, with a sifter comprising a cylindrical member having an upper filling end, a sifting means intermediate its ends and a suitable handle, the lower end of said member having an encircling bead formed in its wall, a disc having openings therein fitting said lower end and having spring clips to snap over said bead, a second disc also having openings therein and centrally pivoted on said first disc, a finger grip on said second disc, and a stop for limiting the rotation of said second disc, said disc allowing the sifter to be placed upright upon a support when not in use, preventing the premature discharge of its contents.

1,471,362. STORAGE-BATTERY FILLER. JACK D. SARTAKOFF. Long Island City, N. Y. Filed Nov. 13, 1919. Serial No. 337,839. 2 Claims. (Cl. 137—68.)



1. An attachment for conventional battery cells embodying a closure cap adapted to screw into the tapped filler cap hole of a conventional cell and provided with an aperture therein, a pair of telescoping sections each provided with a flange, which sections are telescoped into one another from the opposite sides of the cap for mounting and supporting the sections in assembled relation on said cap, means for feeding liquid into the interior of the upper section, a duct through which the liquid may flow into the battery, a valve supported on one of said sections, a lever, also supported on one of the sections, for actuating said valve, and a float, controlled by the liquid level of the electrolyte of the cell for actuating the lever to unseat the valve and allow liquid to flow into the cell when the liquid level recedes below a predetermined minimum.

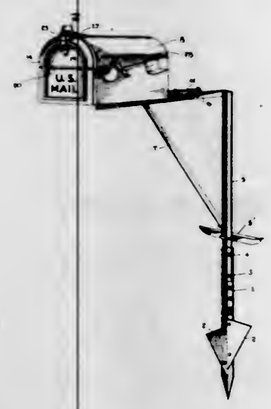
1,471,363. AUTOMOBILE. HARRY H. SCHIELER, Meadows, Idaho. Filed Aug. 25, 1921. Serial No. 495,227. 14 Claims. (Cl. 180—42.)



1. In a motor-driven vehicle, the combination with a vehicle frame, of a divided axle carrying road wheels, a casing receiving the inner ends of the axle sections and

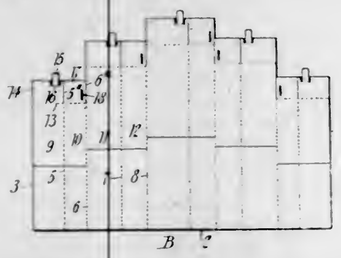
connected with the vehicle frame to turn about a vertical axis, gearing in said casing for driving the road wheels and including a member rotatable about said vertical axis, and springs extending from the connection between said casing and the vehicle frame to the axle sections adjacent the road wheels.

1,471,364. LETTER BOX. ROY SCHROCK, Enid, Okla. Filed Mar. 24, 1922. Serial No. 546,315. 3 Claims. (Cl. 232—35.)



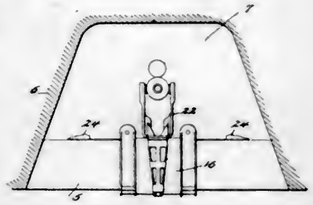
1. In a letter box, a pivoted door, a hook extending from one end of the pivot of the door, an elongated signal pivoted to a wall of the letter box, a hook on one end of the signal adapted to engage the hook on the door pivot, and a weight for swinging the signal to vertical position.

1,471,365. COLLAPSIBLE DISPLAY DEVICE. BELA I. SOMMERS, Tuckahoe, N. Y., assignor to Snyder & Black, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 5, 1923. Serial No. 610,817. 4 Claims. (Cl. 40—126.)



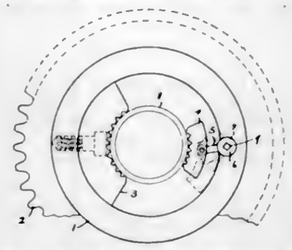
1. A collapsible display device including in combination a plurality of horizontally arranged upright panels articulated together and folded along their lines of articulation for alternately representing the front and end walls of a plurality of boxes or stacks of boxes respectively, flaps articulated to the upper edges of alternate panels, top walls articulated to the upper edges of those alternate panels between the panels to which the flaps are articulated, and coacting means on said flaps and top walls for interlocking when said flaps are folded at an angle to their respective panels and said top walls folded thereover for representing the tops of said boxes and for holding the display in erected position.

1,471,366. CANNON TUNNEL MOUNT. HARRY A. SUTTON and ROBERT S. VAN ATTA, Dayton, Ohio. Filed Mar. 29, 1923. Serial No. 628,659. 9 Claims. (Cl. 89—40.)



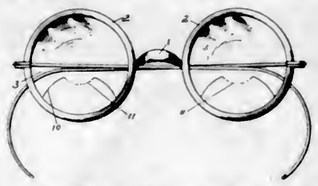
1. A cannon tunnel mount for aircraft embodying a gun-supporting beam adapted to be placed in a normally horizontal position across the tunnel of an aircraft fuselage, and a gun carriage movable longitudinally of said beam.

1,471,367. APPARATUS FOR SCREWING TOGETHER AND UNSCREWING PIPE JOINTS AND THE LIKE. HOMER C. THRIFT, Burkburnett, Tex. Filed Jan. 9, 1922. Serial No. 527,990. 4 Claims. (Cl. 81—53.)



1. A device of the character described including a ring-like rotary member having a fixed jaw within said member, a swinging jaw movable toward and from the fixed jaw, and peripheral teeth carried by the rotary member.

1,471,368. OPHTHALMIC LENS. EDGAR D. TILLYER and HAROLD K. PARSONS, Southbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Apr. 22, 1921. Serial No. 463,542. 9 Claims. (Cl. 88—54.)

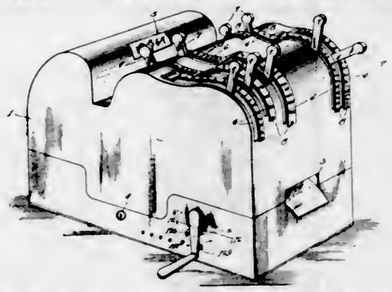


1. A multifocal lens comprising major and minor fields, said fields being centrally separated one from the other by a reverse arch, and being laterally separated from each other by downwardly curving division shoulders.

1,471,369. TRANSFER-PRINTING MACHINE. CHARLES N. WADE, Paterson, N. J. Filed June 23, 1922. Serial No. 570,334. 12 Claims. (Cl. 101—69.)

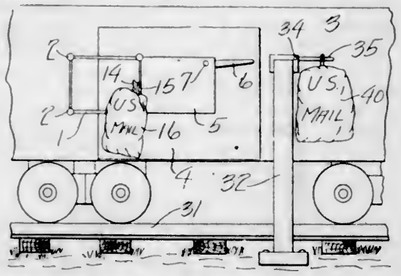
1. The combination of a platen, means for printing upon a paper strip resting on the platen, a stationary knife disposed adjacent one end of the platen, means for feeding the paper strip over the platen and past said knife, a rocker disposed below the platen, a movable knife loosely

fitted upon and carried by one end of said rocker and arranged to cooperate with the stationary knife, a



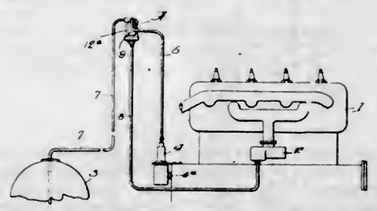
resilient holding member secured to the rocker and bearing yieldably upon the outer face of the movable knife, and means for actuating said rocker.

1,471,370. MAIL DISTRIBUTOR. CHARLES P. WALKER, Columbus, Ga. Filed Aug. 4, 1922. Serial No. 579,583. 1 Claim. (Cl. 258—16.)



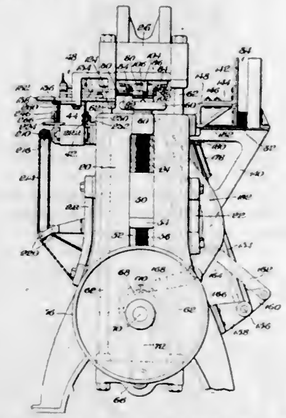
A mail distributor for mail cars and stations, the same comprising a frame adapted to be hinged for horizontal movement to the car; a post and cross brace at the side of the track; a sack receiving arm pivoted for vertical movement to the forward side of the frame; releasable means for holding the arm in horizontal position; a wheel journaled at the rear of the frame and having a sack holding notch and a ratch therein; a spring set pawl to engage the ratch; levers to control and release the pawl; a sack delivering arm pivoted for vertical movement to the cross brace, there being a ratch in the pivoted end of the delivering arm; a pawl to engage the ratch of the delivering arm; and a trigger extended downwardly and forwardly from the said pawl and in the path of the operating levers controlling the sack holding wheel aforesaid.

1,471,371. VACUUM FEED DEVICE. LEONARD H. WHEELER, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Sept. 13, 1922. Serial No. 587,908. 3 Claims. (Cl. 158—36.)



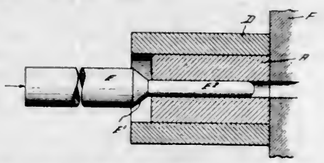
1. A vacuum fuel feeding device comprising a chamber having atmosphere inlet, fuel supply and delivery connections, and float-controlled means for alternating the dominance of atmospheric pressure and suction above the liquid in said chamber, the bottom plate of said chamber having a central exteriorly threaded boss through which the discharge orifice is formed, a pipe reducer fitting screwed onto said boss constituting a valve chamber therebelow, the end of the boss being adapted to serve as a valve seat, and an upwardly seating check valve in said chamber, the carbureter supply connecting pipe leading from the lower reduced terminal of said reducer.

1,471,372. STOCK-CUTTING MACHINE. ERASTUS E. WINKLEY, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 20, 1919. Serial No. 339,298. 31 Claims. (Cl. 164—62.)



1. A stock-cutting machine having, in combination, a cutting bed to receive a strip of stock, a reciprocating head movable toward and from the bed, a series of knives spaced apart upon the head and arranged to cooperate with the bed to divide a strip of stock transversely into a series of separate sections and means for removing the sections and stacking them in a single column.

1,471,373. METHOD OF MAKING SEAMLESS TUBES RICH IN ZINC. WILLIAM L. WOODWARD, Lakewood, Ohio. Filed Apr. 2, 1921. Serial No. 458,116. 5 Claims. (Cl. 207—10.)

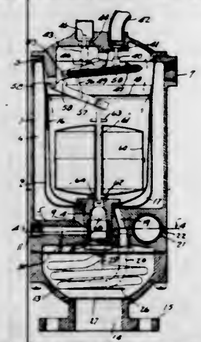


1. The herein described method of making seamless tubes which consists in providing a cast tubular body rich in zinc, subjecting said cast tubular body to mechanical treatment, then heating said tubular body so treated and then subjecting the walls of said tubular body to lateral compression.

1,471,374. OIL-REFINING DEVICE. RICHARD C. ALAND, Detroit, Mich., assignor of one-half to Harry H. Knepper, Detroit, Mich. Filed Aug. 5, 1921. Serial No. 489,994. 7 Claims. (Cl. 123—196.)

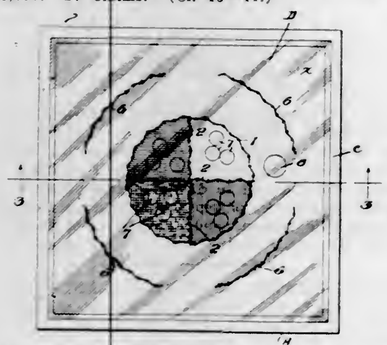
1. An oil refining device for internal combustion engines comprising a casing providing a chamber, oil supply and return passages leading from the chamber to the crank case of the engine, filtering means through

which the oil must pass in entering the chamber, means controlled by the level of oil within the chamber for alternately submitting the same to and relieving the same from a partial vacuum while the engine is in operation, a casing enclosing the first named casing and



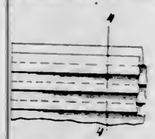
greater in length than the first named casing providing a chamber and passageway for heated gases about the oil chamber, said supply line having a coil in the lower portion of the outer chamber below the oil chamber and about which the exhaust gases flow in passing into the outer chamber.

1,471,375. GAME APPARATUS. WILLIAM S. BOWMAN, Orangeville, Pa. Filed Mar. 23, 1922. Serial No. 546,057. 17 Claims. (Cl. 46—41.)



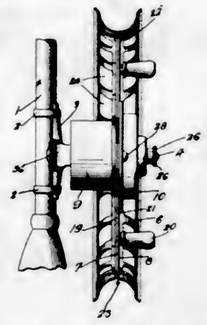
1. A game apparatus comprising a surface provided with an enclosure marked to indicate a certain classification, a similarly marked member adapted for gravitation over said surface and to enter said enclosure, means adapted to permit entry of said member into said enclosure and to prevent egress therefrom, and a separate exit from said enclosure remote from said surface, substantially as described.

1,471,376. PROCESS OF CONSTRUCTING MATS. JAMES G. BOWSER, Columbus, Kans. Filed Feb. 13, 1922. Serial No. 536,178. 4 Claims. (Cl. 154—2.)



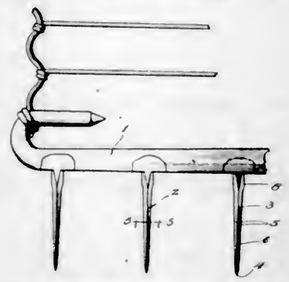
1. The process of forming mats consisting of first cutting tire casings or shoes to desired lengths and breadths, and second arranging the shoes or casings in engaging relation to each other, and third fixing the engaging portions of the casings to each other.

1,471,377. FISHING REEL. CHARLES AGUSTUS BOYER, Winona Lake, Ind. Filed Aug. 5, 1921. Serial No. 490,057. 3 Claims. (Cl. 242—84.6.)



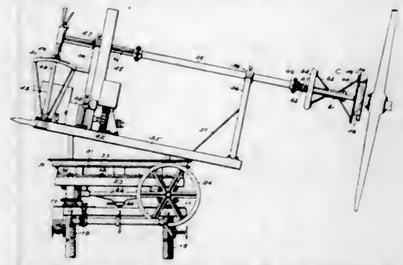
1. A fishing reel including a base plate and a spool and hub assembly revolvable about an axle, said base plate being elongated on each side to form thumb rests.

1,471,378. METHOD OF PRODUCING OYSTER TONGS. CHARLES D. BRIDDELL, Crisfield, Md. Filed Aug. 5, 1922. Serial No. 579,917. 3 Claims. (Cl. 76—111.)



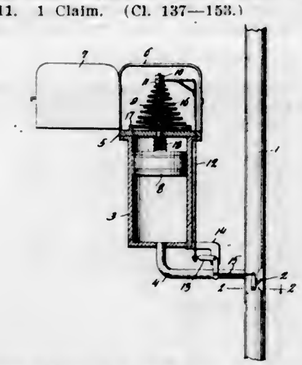
1. The method of uniting a tooth to a tooth bar which comprises splitting the tooth at its butt-end, spreading the portions thus formed, indenting the opposite sides of the bar, applying the said end of the tooth to the bar with the said portions straddling the bar and engaging in the indentations, and welding the parts together.

1,471,379. FIELD ENGINE STARTER. CHARLES P. BREESE, Dayton, Ohio. Filed Feb. 17, 1921. Serial No. 445,665. 30 Claims. (Cl. 244—31.)



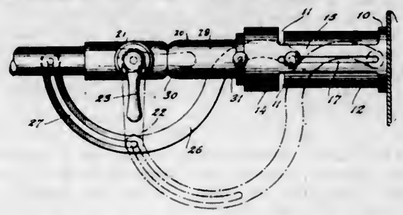
1. An engine starter embodying in combination, a supporting base, a superposed platform, shaft bearings fixedly secured to said platform, an engine starting shaft journaled in said bearings, a starting motor mounted on said platform for driving said starting shaft, and means for adjusting the height of said platform in relation to the supporting base.

1,471,380. VACUUM GOVERNOR. ROY BURCHETT, Seiling, Okla. Filed June 16, 1921. Serial No 478,111. 1 Claim. (Cl. 137—153.)



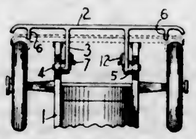
The combination with a fuel intake manifold having a throttle valve therein; of a vacuum casing having communication with the interior of the manifold, a piston therein adapted to be drawn toward one end of the casing by suction created in the manifold, a stem for the piston extending through one end of the casing, a coil spring associated with the stem on each side of the end of said casing, a bracket carried by the casing, a bell crank lever pivotally connected thereto, a rod connected to one arm of the bell crank at one end having its opposite end angularly disposed to be connected to the piston stem, and a rod connecting the other arm of the bell crank to the throttle valve.

1,471,381. MIXER FOR GAS BURNERS. HENRY C. CALDWELL, Buffalo, N. Y. Filed July 17, 1920. Serial No. 396,906. 10 Claims. (Cl. 158—118.)



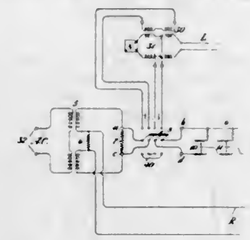
9. A mixer for gas burners comprising means for controlling the supply of gas to the mixer, means for regulating the gas supply, means for supplying air to the mixer, which are operable independently of the gas controlling means, and means connecting the gas controlling means and air controlling means for reducing the air supply when the gas supply is reduced or shut off by the controlling means, if the air supply has been previously increased, thereby preventing back-firing.

1,471,382. AUTOMOBILE LOCK. ANDREW F. CAVANAUGH, Dayton, Ohio. Filed Mar. 6, 1922. Serial No. 541,359. 5 Claims. (Cl. 70—90.)



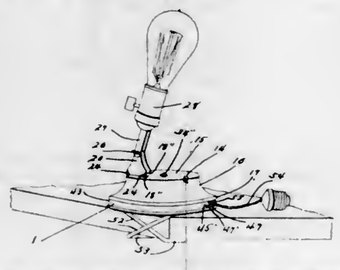
2. The combination with a bumper having means for mounting the same on an automobile for fore and aft movement relative thereto, of a device carried by said bumper and arranged to move therewith into a position to hold one of said wheels of the automobile against steering movement, and means to lock said bumper in said position.

1,471,383. METHOD OF AND MEANS FOR MEASURING UNBALANCE. ALVA B. CLARK, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 15, 1919. Serial No. 330,812. 30 Claims. (Cl. 179—175.)



3. The method of determining the extent of the unbalance between a pair of electrical devices, which consists in determining the reduction in the transmission equivalent of a circuit by interposing said devices in balanced relation in said circuit.

1,471,384. ELECTRIC LAMP. MARTIN CLAUSSEN, San Francisco, Calif. Filed Aug. 23, 1921. Serial No. 494,465. 35 Claims. (Cl. 240—53.)



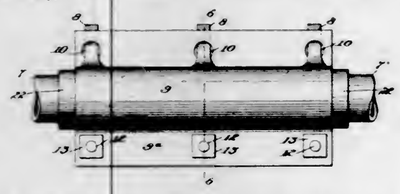
1. In an electric lamp of the character described, a lamp base having an upwardly projecting central cord drum and an upwardly struck annular marginal rib having a notch formed in its apex adapted to receive a lamp cord operably windable upon said cord drum.

1,471,385. SUITCASE. HAROLD STEPHEN BLYTHE CRITCHLEY, London, England. Filed Feb. 9, 1921. Serial No. 443,617. 1 Claim. (Cl. 190—58.)



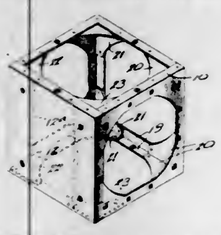
The combination with a suit case and a detachable handle therefor, of lock fittings mounted on the suit case frame, key fittings secured to the ends of the handle, said lock fitting having slots for the reception of said key fittings, and locking devices mounted in and carried by the key fittings, for detachably engaging said lock fittings, to secure or release the handle.

1,471,386. DEVICE FOR STOPPING LEAKS IN PIPES. DAVID BERNARD CROCKETT, Charleston, W. Va. Filed May 7, 1921. Serial No. 467,766. 3 Claims. (Cl. 24—19.)



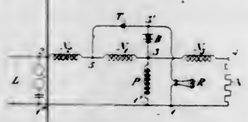
1. A device for the purpose described comprising two members adapted, when assembled, to surround a pipe and each including a transversely curved section having at one edge a radially projecting flange, said members having a hinge-like connection with each other at the opposite side of the curved sections from said flanges and the latter being in overlapping relation when the members are in operative position about a pipe, said hinge-like connection permitting relative adjustment of the members to accommodate the device to pipes of different diameter, and the flange of one of the members having formed therein a slot, and a securing bolt extending through said slot and the flange of the other member.

1,471,387. MOLD FOR POURED STRUCTURES. ISRAEL DIAMOND, Washington, D. C. Filed Mar. 31, 1920. Serial No. 370,162. 16 Claims. (Cl. 25—131.)



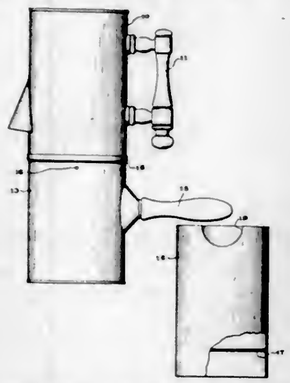
1. A concrete-form structure comprising units, each with a plurality of its sides integral with each other and each unit complete in itself and having angular corner braces and flanges provided with openings for the reception of means for union with an adjacent unit.

1,471,388. SIGNALING CIRCUIT. EGINHARD DIETZE, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Jan. 26, 1921. Serial No. 440,087. 4 Claims. (Cl. 179—81.)



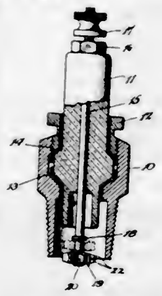
1. In a signaling system a transmission circuit, a transmitting circuit, a receiving circuit, a balancing circuit, and a transformer having three windings, one of said windings being included in said transmission circuit, another of said windings being included in said balancing circuit, and the third winding being included between said transmission and balancing circuits; a terminal of each of said transmission, receiving, and balancing circuits being joined together, the other terminal of said receiving circuit being connected to the junction point between said third winding and said balancing circuit; said transmitting circuit being connected in shunt with said third winding; a source of direct current so connected as to supply current to both said transmitting and receiving circuits, and a connection having large impedance and low resistance directly connected between one terminal of said source and a terminal of said receiving circuit.

1,471,389. COFFEEPOT. SALVATORE DI TRAPANI and JACK FECAROTTA, Detroit, Mich. Filed Nov. 14, 1922. Serial No. 600,914. 1 Claim. (Cl. 53—3.)



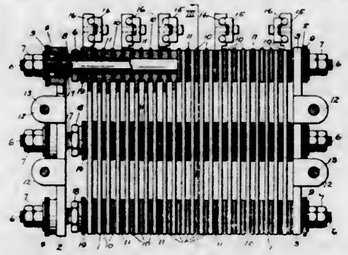
A coffee percolator comprising a coffee pot, a water container including snugly associated inner and outer parts, said outer part having an opening adjacent the upper end thereof, said inner part being open at both ends, and arranged with one end reposing upon the bottom of the outer part, and the other end projecting above the latter, and adapted to be received by the coffee pot, said inner part being cut-away adjacent the end reposing upon the bottom of the outer part, to permit the escape of the steam from the container through said opening in the outer part, a perforated partition arranged within the inner part and defining a coffee receiving compartment, and a perforated cover for said compartment, said cover being fitted upon the projecting portion of the inner part and adapted to be received by said coffee pot.

1,471,390. SPARK PLUG. MILLARD J. DOWNEY, MAURICE M. DOWNEY, and JAMES DOWNEY, Chicago, Ill. Filed Oct. 14, 1920. Serial No. 416,857. 2 Claims. (Cl. 123—169.)



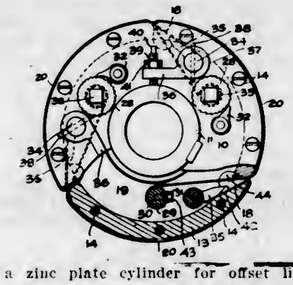
1. In a spark plug, the combination of a shell, an electrode insulated with respect to the shell, a sparking element slidable upon the electrode longitudinally thereof and provided with projections each notched to form spaced terminals having concave end edges defining pairs of sparking points spaced apart in the direction of the axis of the shell, and a spring resisting upward sliding movement of said element.

1,471,391. RHEOSTAT. ROBERT R. DUNLOP, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed May 27, 1921. Serial No. 473,025. 10 Claims. (Cl. 219—69.)



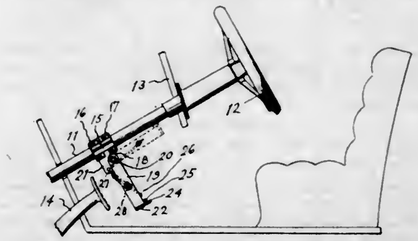
1. In a rheostat, the combination with a rigid frame comprising end plates joined together by rods, a plurality of resistance grids supported upon and insulated from said rods, and devices adjustable relative to said end plates longitudinally of said rods to clamp said grids in operative relation to each other.

1,471,392. ZINC-PLATE CYLINDER FOR OFFSET LITHOGRAPHING PRESSES. STUART FLEMING, Owen Sound, Ontario, Canada. Filed Nov. 29, 1920. Serial No. 427,103. 6 Claims. (Cl. 101—415.1.)



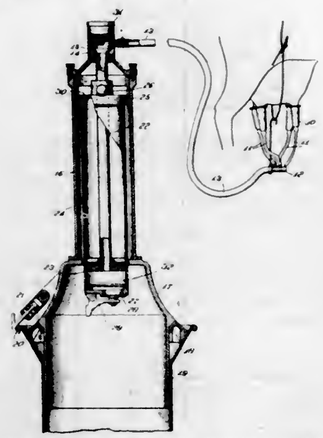
1. In a zinc plate cylinder for offset lithographing presses, the combination with the cylinder, of segmental zinc plates, the one end of each zinc plate being turned over inwardly and clamped in the cylinder, shafts freely mounted in the cylinder, plates hinged to the other ends of the zinc plates and secured to said shafts and means for turning the shafts for drawing the zinc plates taut against the cylinder.

1,471,393. AUTOMOBILE FOOT STEERING DEVICE. RAY MARSH FOX, Los Angeles, Calif. Filed Apr. 30, 1923. Serial No. 635,607. 9 Claims. (Cl. 74—39.)



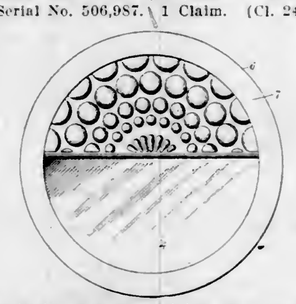
1. The combination with a rotary element of a vehicle steering mechanism, of a clamp body attached thereto, a lever pivotally connected to the clamp body, a foot pedal on the extremity of the lever, a table integral with the clamp body and supporting the foot-lever in its operative position, and spring means to automatically return the lever to its inoperative position when released.

1,471,394. METHOD OF MILKING. PETER A. FRIMAND, Miami, Fla., assignor to The Burton Page Company, Chicago, Ill., a Corporation of Illinois. Filed July 19, 1919. Serial No. 311,934. 3 Claims. (Cl 31—98.)



1. Method of milking by mechanically created suction applied intermittently to the cow's teats which consists in developing a vacuum at each pulsation so that it quickly reaches the maximum intensity desired, then continuing the exhausting operation just sufficiently to maintain the intensity of the vacuum substantially constant for a time, and then relieving the vacuum so that the cow's teats are subject to atmospheric pressure and discharging the milk accumulated in the vacuum space.

1,471,395. AUTO LAMP-DIMMER ATTACHMENT. WILLIAM C. GARWOOD, Dayton, Ohio. Filed Oct. 11, 1921. Serial No. 506,987. 1 Claim. (Cl. 240—48.4.)

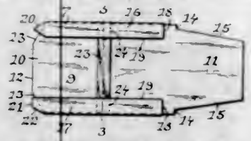


In a headlight, a lens retaining rim provided with rivets, a lamp housing having retaining lips, a plain glass closure, an auxiliary celluloid dimmer attachment provided with rearwardly extending apertured flanges adapted to be engaged by rivets in said retaining rim, the face of said dimmer attachment being provided with apertures to receive said forwardly extending retaining lips on said lamp housing, said dimmer attachment being also provided with forwardly extending flanges adapted to engage the outer edge of said rim and press inwardly against the outer face thereof, said dimmer attachment being adapted to refract the rays of said headlight.

1,471,396. RIDGE OR HIP FLEXIBLE SHINGLE. ALBERT ABBE GRISWOLD, Providence, R. I., assignor of one-half to John Francia Chevalier, Brookline, Mass. Filed Aug. 17, 1922. Serial No. 582,424. 2 Claims. (Cl. 108—24.)

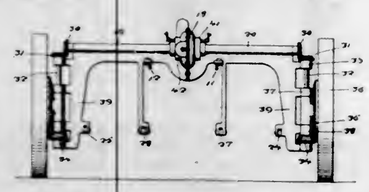
1. A ridge or hip flexible shingle comprising a rectangular shaped body having a locking end, oppositely

disposed edge shoulders, a nailing end extending from the shoulders, underturned oppositely disposed parallel side lips on the body and spaced from the body the thickness of a shingle, one of the lips having a pointed end and the other lip having an oppositely disposed



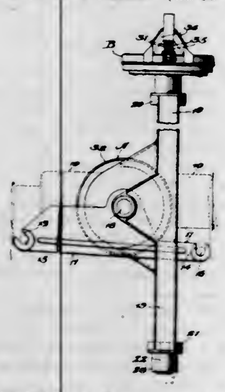
square end, the shoulder adjacent ends being spaced from the shoulders a predetermined distance and form stops, a bendable member in the form of a strip of sheet metal and held in place by the underturned lips, for the purpose as described.

1,471,397. DRIVING AND STEERING MECHANISM FOR CULTIVATORS. SAMUEL T. HOENER, Slater, Mo. Filed Feb. 27, 1922. Serial No. 539,537. 2 Claims. (Cl. 180—43.)



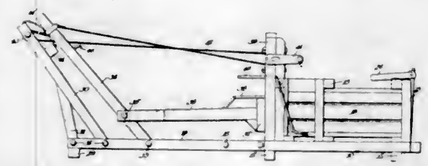
1. In a device of the class described, a shaft comprising elements in axial alignment, driving means for the shaft elements, an axle mounting said shaft elements, a yoke member carried by the axle and providing upper and lower bearings, a knuckle block, a vertical shaft extending through the block and extending upwardly beyond the upper bearing of the yoke, gearing for driving this shaft from one of the shaft elements before named, a pinion carried by the vertical shaft, a gear wheel meshing therewith, a vehicle wheel mounting said gear wheel last named, an arm carried by the knuckle block, a vertical shaft and mounting means therefor, a plurality of pivotally connected elements normally at approximately right angles with each other for controlling the arm from the vertical shaft, and means for partly rotating said vertical shaft.

1,471,398. GUN MOUNT WITH REMOTE CONTROL. HENRY B. INGLIS, Dayton, Ohio. Filed Apr. 30, 1923. Serial No. 635,772. 8 Claims. (Cl. 89—41.)



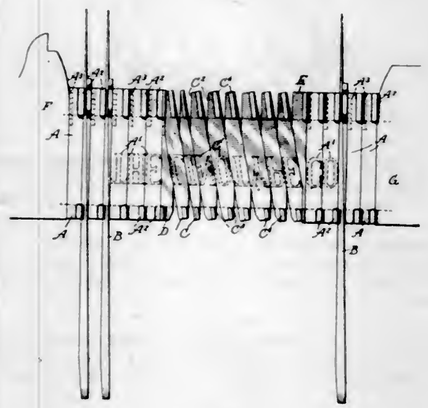
1. In combination, a flexibly mounted gun movable about two axes of rotation, locking mechanisms for preventing movement about said axes, and controlling means operable at a point remote from the gun for releasing either or both of said locking mechanisms and turning the gun.

1,471,399. HAY PRESS. TOM V. KELLEBREW, Hamburg, Ark. Filed June 6, 1921. Serial No. 475,493. 1 Claim. (Cl. 100—12.)



A hay press embodying a baling box having a feed opening therein, a plunger movable within said box, a power lever spaced from one end of the box, a rod connecting the plunger and power lever, whereby movement of the latter will operate the plunger, means for operating the power lever, and a bail pivotally secured to the box and engageable with a hook carried by the power lever for holding the latter against downward movement.

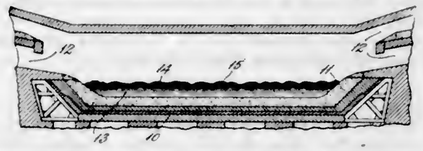
1,471,400. TYPOGRAPHICAL ELEMENTS. GEORGE P. KINGSBURY, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Dec. 5, 1921. Serial No. 519,861. 15 Claims. (Cl. 199—63.)



1. In or for a typographical machine, a matrix adapted to occupy an inclined position when in use, the said matrix being cut away on one side and at one end, for the purpose described.

1,471,401. PROCESS FOR DESULPHURIZATION OF IRON AND STEEL. HEINRICH KOPPERS, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 8, 1921. Serial No. 483,146. 9 Claims. (Cl. 75—27.)

1. A process for desulphurizing large quantities of iron and steel which consists in covering the bath, after the bath has been freed in the usual manner from phosphorous, manganese, silicon and the like and after removing the slag cover resulting after these elements have been freed, with a new, thick, highly basic slag into which specially prepared carbon of approximately the same specific gravity as the slag is dipped, for the purpose of combining with sulphur to form calcium sulphide by releasing calcium



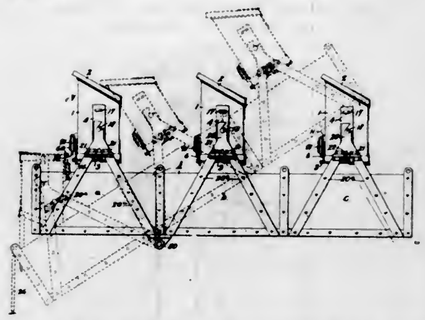
under the influence of high temperatures and with a neutral atmosphere, thus removing at the same time the last traces of oxygen as carbon monoxide.

1,471,402. PALLET MECHANISM FOR ORE-SINTERING MACHINES. RICHARD L. LLOYD, New York, N. Y., assignor to Dwight & Lloyd Sintering Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 27, 1919, Serial No. 333,488. Renewed Jan. 29, 1923. 6 Claims. (Cl. 266—21.)



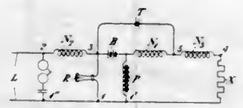
1. In a mechanism for desulphurizing or treating ore, the combination of the main frame, the air boxes arranged in series and supported by said frame, means for forcing air through said boxes, the guideway along the upper part of the frame, the series of pallets on the said guideway, each cast with downward projecting flange walls adapted to fit air tight with the air boxes, and cast with vertical walls and transverse bars integral with the vertical walls and with the flange walls, said transverse bars being adapted to support a series of detachable grate sections, and carrying means for holding the grate sections rigidly but detachably on the pallet bodies as they move along and around said air boxes.

1,471,403. CEMENT BATCH BOX, CARRIER, AND DUMP. JOHN W. MADIGAN, Connellsville, Pa. Filed Jan. 31, 1923. Serial No. 616,120. 11 Claims. (Cl. 83—73.)



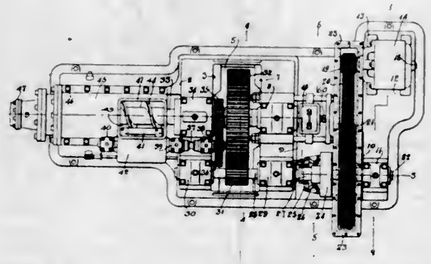
1. A means for handling material comprising a body having a batch assembling compartment, a cement receiving box having a hinged top lid and diametrically oppositely disposed trunnions, a pair of oppositely disposed standards on said body, said standards having bearings for said trunnions to receive the same when said box is placed over the batch assembling compartment, means for holding the box in its vertical position, said box being adapted for being inverted to drop its load and discharge the cement through the top of the box into the batch assembling compartment.

1,471,404. SIGNALING CIRCUIT. WILLIAM H. MARTIN, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Jan. 26, 1921. Serial No. 440,127. 9 Claims. (Cl. 179—81.)



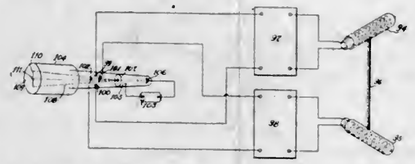
1. In a signaling system, a transmission circuit, a transmitting circuit, a receiving circuit, a balancing circuit, and a transformer having three windings, one of said windings being included in said transmission circuit, another of said windings being included in said balancing circuit, and the third winding being included between said transmission and balancing circuits; a terminal of each of said transmission, receiving, and balancing circuits being joined together, the other terminal of said receiving circuit being connected between said third winding and the circuit including one of the other two windings; said transmitting circuit being connected in shunt with said third winding; a source of direct current so connected as to supply current to both said transmitting and said receiving circuits, and a circuit having large impedance and low resistance directly connected to one terminal of said source and to a terminal of said receiving circuit.

1,471,405. CLAY-WORKING MACHINERY. ROY H. MCELROY, Dayton, Ohio, assignor to Roy H. McElroy, receiver for The Bohmann Iron Works Co., Dayton, Ohio, a Corporation of Massachusetts. Filed July 13, 1922. Serial No. 574,682. 5 Claims. (Cl. 25—14.)



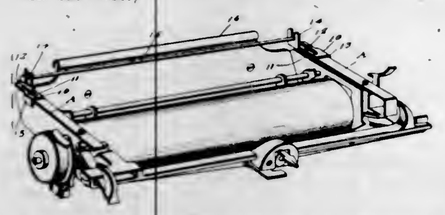
1. The combination with a motor, of a shaft, belting connecting the motor and shaft, a pinion on said shaft, a second shaft, a gear on the second shaft, meshing with said pinion, an extrusion auger carried by the second shaft, an impeller positioned laterally of the auger and adjacent thereto, and means to drive the impeller from the second shaft.

1,471,406. RADIOTELEGRAPHY. FREDERICK S. MCCULLOUGH, Cleveland, Ohio, assignor to Glenn L. Martin, Cleveland, Ohio. Filed July 25, 1919. Serial No. 313,161. 4 Claims. (Cl. 250—11.)



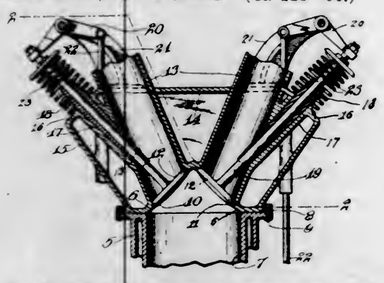
4. A radio receiving system having two directional receiving units, each of said units consisting of coils and a filament contained in an evacuated tube, the axes of the two sets of said coils being at right angles to each other.

1,471,407. TYPEWRITER ATTACHMENT. ANNIE ROONEY MCNEAL, New York, N. Y. Filed Mar. 29, 1921, Serial No. 456,614. Renewed Jan. 2, 1923. 4 Claims. (Cl. 197—180.)



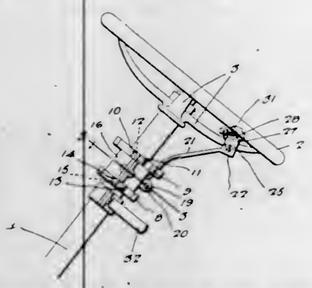
1. A typewriter attachment comprising a rod adapted to be arranged in advance of the paper table to prevent the paper from being blown in the direction of the operator, and means secured to the machine and including parallel end members adapted to support the rod in position for use, the said end members being bifurcated to receive and support the ends of the said rod.

1,471,408. INTERNAL-COMBUSTION ENGINE. ALBERT MERTZ, Dayton, Ohio. Filed June 11, 1920. Serial No. 388,330. 2 Claims. (Cl. 123—90.)



1. In an internal combustion engine, a cylinder, a detachable head closing the outer end of the cylinder and having its portion which covers the bore of the cylinder composed of two opposite walls which are inclined in opposite directions with respect to the longitudinal axis of the cylinder, said inclined walls having valve seats, valves for said seats, and intake and exhaust conduits extending to the ports and positioned at oblique angles to the cylinder axis, and said intake conduit extending and leading from a point above said detachable cylinder head.

1,471,409. STEERING-GEAR LOCK. CHARLES L. MUTRIX, New Orleans, La. Filed Jan. 2, 1923. Serial No. 610,279. 3 Claims. (Cl. 70—129.)

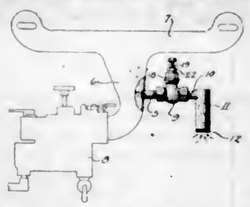


2. The combination of a steering post wheel and a steering post column; of a means for locking the wheel from turning on the column, comprising a collar fixed around the column, a sleeve revoluble on the collar, a bar hinged to the sleeve, means on the bar to engage a spoke of the wheel when said bar is swung toward the wheel, means locking such engaging means, and means on the collar engaging the bar for holding the sleeve from turning when the wheel is locked.

1,471,410. PROCESS OF MAKING WATERPROOFING FOR CONCRETE AND THE PRODUCT THEREBY PRODUCED. SPENCER B. NEWBERRY, Cleveland, Ohio; Andrew W. Newberry, executor of said Spencer B. Newberry, deceased, assignor to Medusa Concrete Waterproofing Company, Cleveland, Ohio, a Corporation of Maine. Filed July 2, 1921. Serial No. 482,253. 8 Claims. (Cl. 106—25.)

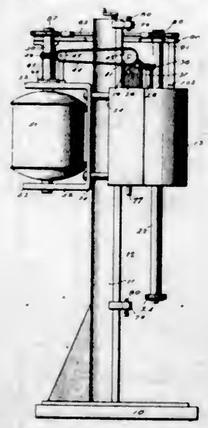
1. Process of making waterproofing by mixing fatty acid with hydrated lime and stirring the mixture without heating it above ordinary atmospheric temperature, until the product becomes a homogeneous finely-divided powder.

1,471,411. FUEL SAVER AND DECARBONIZER. HORACE FALK NEUMEYER, Macungie, Pa. Filed Jan. 13, 1923. Serial No. 612,534. 8 Claims. (Cl. 123—198.)



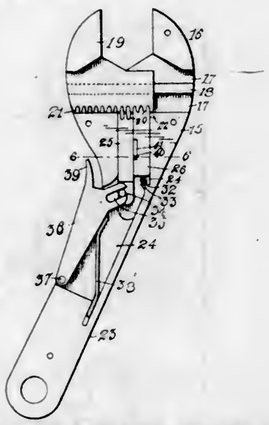
1. The combination with the fuel intake pipe of an internal combustion engine, of an auxiliary air inlet connected thereto and having a chamber containing camphor balls, said chamber being located between the auxiliary inlet and the atmosphere and having an atmospheric port at its lower end which is normally closed by one of the camphor balls seated thereon, said camphor ball acting as a valve for the atmospheric port adapted to be opened by the suction of the engine.

1,471,412. PORTABLE GRINDING MACHINE. ROYAL W. OPFEL, Cuero, Tex. Filed Mar. 26, 1921. Serial No. 455,746. 6 Claims. (Cl. 51—43.)



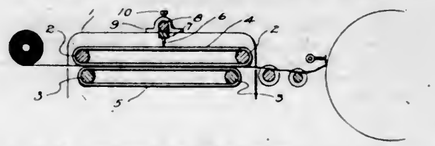
1. A grinding machine comprising a grinding shaft, a U-shaped yoke having a rigid arm receiving said shaft, a belt having connection with said shaft, a motor having a shaft connected to said belt, said yoke being provided with a pivoted arm connected to the shaft of said motor, means to support said yoke, and means whereby said grinding shaft and said motor are reciprocated.

1,471,413. WRENCH. JOHN R. PALMETER, Jamestown, N. Y. Filed Feb. 21, 1922. Serial No. 538,199. 7 Claims. (Cl. 81—145.)



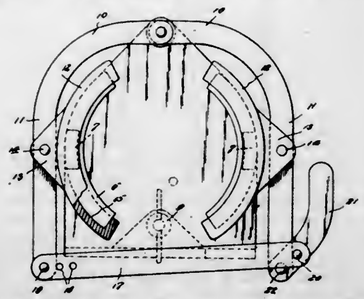
1. A wrench comprising a wrench head having a slidably mounted jaw therein, teeth crosswise of the edge of said jaw, a pair of toothed slides to hold said jaw in an adjusted position, and single manual control for said slides to retract the same seriatim from engagement with the teeth of said slidably mounted jaw.

1,471,414. APRON ROUGHENER FOR CONDENSERS. DURELL O. PEASE, Hampden, Mass. Filed Feb. 3, 1921. Serial No. 442,193. 2 Claims. (Cl. 19—153.)



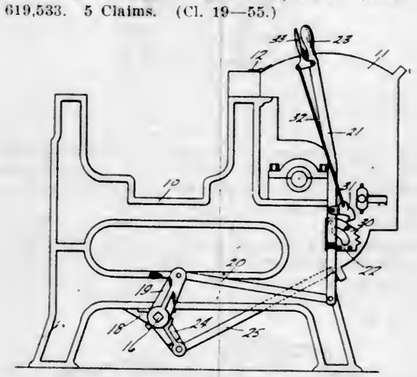
1. In a condenser for cards having rub-aprons and means for simultaneously imparting rotary and reciprocating motions thereto, the combination with said rub-aprons, of automatic means for roughening the working surface of one of the aprons while the same is in motion.

1,471,415. JAR HOLDER. WILLIAM H. PLATT, Hamilton, Ohio. Filed Mar. 27, 1923. Serial No. 627,976. 3 Claims. (Cl. 81—3.3.)



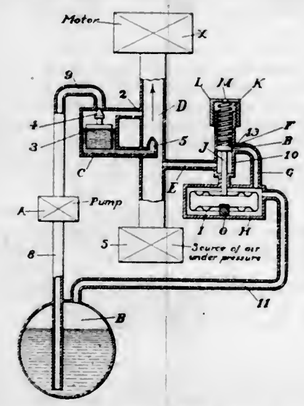
1. In a jar holder, a base plate, means for securing said base plate upon a support, a pair of substantially J-shaped arms pivoted at their curved ends to one end of said plate, jaws carried by said arms, and means for swinging said arms upon the pivot for consequently opening or closing said jaws.

1,471,416. LIFT FOR GIN BREASTS. CHARLES R. P. POOL, Dallas, Tex. Filed Feb. 16, 1923. Serial No. 619,533. 5 Claims. (Cl. 19—55.)



1. In a gin breast lifting attachment, a rock shaft, means for supporting said rock shaft on a gin frame, a lever, means for fastening said lever in a forward position, a rocking connection between the shaft and the lever, means for mounting the lever on the gin stand, a lifting rod adapted to engage the breast of a gin, and means carried on the rock shaft for displacing the rod to lift the breast when the shaft is rocked.

1,471,417. MEANS TO MAINTAIN A SUITABLE PRESSURE IN THE LIQUID-FUEL-STORAGE TANKS OF AIRPLANES. AUGUSTE CAMILLE EDMOND RATEAU, Paris, France. Filed Nov. 7, 1922. Serial No. 599,519. 4 Claims. (Cl. 158—36.)

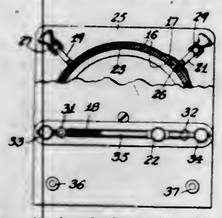


1. In a fuel feeding device for a flying machine propelled by a supercharged motor means to control the pressure in the fuel tank which consists in reducing the pressure of the air under pressure delivered to the motor and applying said reduced pressure to the fuel tank.

1,471,418. TUNING TRANSFORMER. JOHN F. RODGERS, Brooklyn, N. Y., assignor of one-half to Charles Hanselmann, Brooklyn, N. Y. Filed May 26, 1922. Serial No. 563,926. 19 Claims. (Cl. 171—119.)

1. A transformer of the class described comprising a primary coil and a secondary coil, means adjustable over said coils and in circuit therewith for electrically placing

said means in connection with the separate windings of said coils, said coils being wound on a common core with the turns of the separate coils located one between the



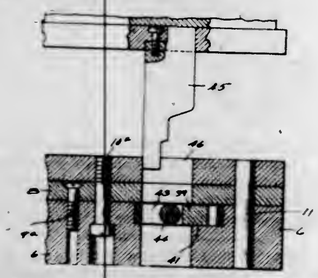
other, and means for insulating said coils from each other, said last named means involving an insulation strip mounted upon said core and upon the primary coil and over which the secondary coil is wound.

1,471,419. WARDROBE-TRUNK LOCK. HENRY W. ROUNTREE, Richmond, Va., assignor to H. W. Rountree & Brother Trunk & Bag Co., Richmond, Va., a Corporation. Filed May 11, 1922. Serial No. 560,189. 2 Claims. (Cl. 190—13.)



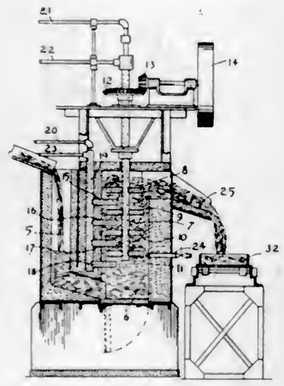
1. The combination in a wardrobe trunk composed of two sections hinged together, one of said sections having a hinged top; a door hinged to said section which has the hinged top, means for locking said door in closed position with respect to its section and cooperative connections between said door and said hinged top for holding said hinged top down when said door is in the closed position.

1,471,420. MACHINE FOR MAKING PRESS STUDS OR FASTENERS. ANTON RUZICKA, Cleveland, Ohio. Filed July 13, 1917. Serial No. 180,368. 7 Claims. (Cl. 79—3.)



1. In a die press, the combination with a die mechanism adapted to form a boss on a strip of metal, of a pair of cutters movable in a line parallel to said strip and lengthwise thereof and adapted to cut a slot in each side of said boss.

1,471,421. PROCESS OF PRODUCING POROUS MATERIAL. MATHIAS OVROM SEM, Christiania, Norway, assignor to Det Norske Aktieselskab Elektrokemisk Industri, Christiania, Norway, a Business Entity of Norway. Filed Dec. 16, 1919. Serial No. 345,445. 8 Claims. (Cl. 49—77.5.)



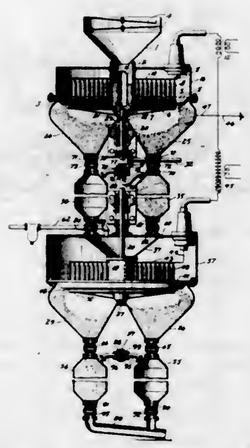
8. The process of producing a porous material from molten slag, which comprises continuously leading the molten slag into a container at a temperature of approximately 1400° C., introducing water and a gas therein, subjecting the molten slag and the water to agitation whereby a foam is produced, the introduction of the water being regulated in such manner that the temperature of the foam will be approximately 1000° C., continuously leading the foam into moulds and cooling the same to solidification whereby the foam structure is preserved.

1,471,422. BONE-CUTTING FORCEPS. WILLIAM L. SHEARER, Omaha, Nebr., assignor to Dental Products Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 30, 1921. Serial No. 465,716. 2 Claims. (Cl. 128—312.)



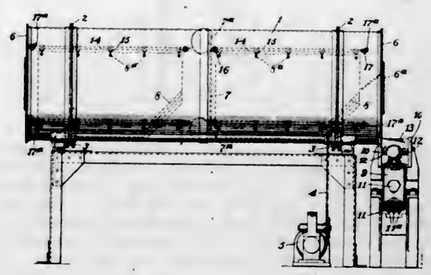
2. In a bone cutting forceps, a pair of jaws including co-operating cutting edges at the rear thereof, said jaws being curved upwardly and inwardly from said edges to provide pockets to receive particles of bone severed by said edges, the upper extremities of said jaws being spaced apart when said edges are in engagement.

1,471,423. ART OF TREATING GRAIN IN BULK BY ELECTRICITY. FRANKLIN S. SMITH, Philadelphia, Pa., assignor to The Products Protection Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 12, 1919. Serial No. 276,558. 16 Claims. (Cl. 175—311.)



2. The process of treating grain which consists in causing a disruptive conductive current of electricity to pass along the surfaces of the respective grains, and then also causing such a current to pass through said grains.

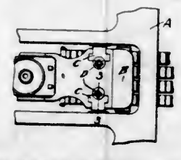
1,471,424. BALL-VARNISHING MACHINE. CHARLES W. STEELE, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio. Filed Oct. 30, 1922. Serial No. 597,983. 8 Claims. (Cl. 91—52.)



1. A ball coating machine comprising a rotatable drum having feed and discharge openings at opposite ends thereof, and a flexible fabric sheet having one edge secured to the inner wall of the drum lengthwise thereof.

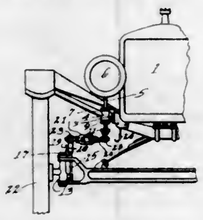
5. A machine of the character described, comprising a rotatable cylindrical drum having inlet and discharge openings at opposite ends, partition means within the drum dividing it into a plurality of cylindric chambers, said partition means having ball passages, and flexible wipers of absorbent material carried by the drum within each compartment.

1,471,425. CHAFING PLATE. WILLIAM LAWRENCE TEDFORD, Paris, France. Filed Feb. 17, 1923. Serial No. 619,656. 3 Claims. (Cl. 105—207.)



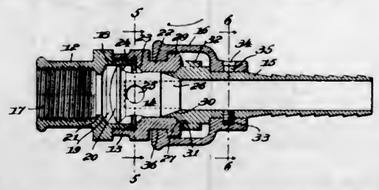
1. A renewable chafing plate for car truck bolsters having means for interlocking engagement with the bolster to prevent movement in all directions excepting one, and removable fastening means for locking the chafing plate in position.

1,471,426. HEADLIGHT-OPERATING MECHANISM. RILEY M. THOMPSON, Pendleton, Oreg. Filed May 31, 1921. Serial No. 473,755. 1 claim. (Cl. 240—62.)



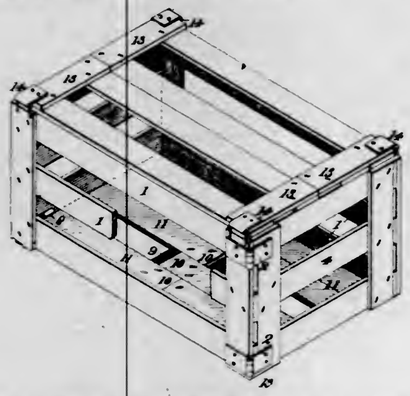
In a headlight operating mechanism, in combination with the steering arm and spindle of an automobile, a headlight bearing stem provided with bearings, a bracket, a yielding means to maintain said bearings in operable contact with said bracket, a lever arm rigidly attached to said bearing stem and supporting said yielding means, a post provided with a clamp and a stabilizing arm and operable and connected with the steering arm and spindle bolt, a connecting rod flexibly and detachably connecting said post and said lever arm, and means slidably mounted on said post to adjust horizontally said connecting rod.

1,471,427. AUTOMATIC HOSE COUPLING. JAMES M. TOWLE, West Somerville, Mass., assignor of one-half to Louis I. Beckwith, Boston, Mass. Filed May 6, 1920. Serial No. 379,219. 5 Claims. (Cl. 284—18.)



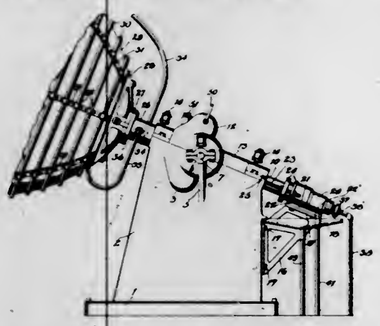
4. A device of the class described comprising an outlet bushing, a connector member having a tubular valve opening and a valve seat adjacent said opening, a tubular valve in said opening having a solid head and a beveled open end, the solid head being normally seated against the valve seat, the connector member having an open end and a cone seat adjacent said end, and an intake member having a cone seat adapted to interfit with the beveled open end of the valve and having a beveled portion adapted to interfit with the cone seat adjacent to the open end of the connector member, the intake member when so interfitted being adapted to unseat the valve and forming a substantially air tight connection with the tubular valve and with the connector member, and means adapted to detachably connect the connector member and intake member.

1,471,428. FOLDABLE CASE. WILLIAM E. TUCKER, San Francisco, Calif., assignor to George X. Wendling, San Francisco, Calif. Filed Oct. 14, 1922. Serial No. 594,536. 5 Claims. (Cl. 217—46.)



1. A collapsible case including side and end wall members hingedly united to fold into parallel spaced relation, and a bottom comprising a pair of members hinged to opposing case wall members to lie between adjacent parallel spaced side and end wall members when collapsed, said bottom forming members adapted on the assembling of the case to fold with their free edges into interlocking self sustaining engagement.

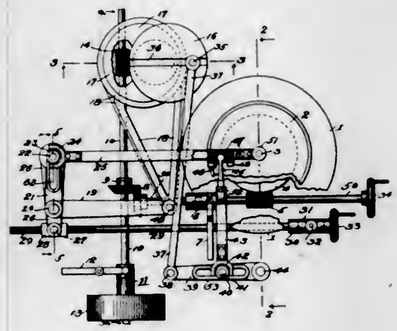
1,471,429. CANDY-COATING MACHINE. HARVEY RAY WALLACE, Brooklyn, N. Y., assignor to Loft Incorporated, New York, N. Y. Filed Mar. 18, 1921. Serial No. 453,524. 3 Claims. (Cl. 184—106.)



2. A machine of the class described, including a base member, a standard in the form of a casing rising therefrom, a bracket attached to one side of the standard, a bearing plate carried by said bracket having a receiving receptacle carried by the bracket and arranged beneath the bearing plate, said receptacle being substantially larger than the bearing plate.

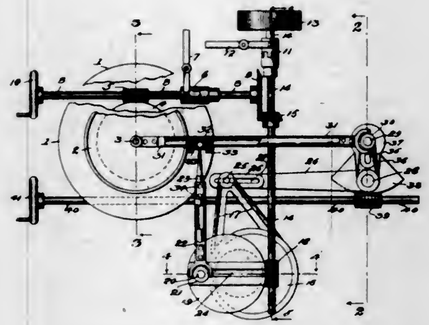
1,471,430. GRINDING MACHINE. FLOYD CALVIN WEAVER, Washington, D. C. Filed May 2, 1922. Serial No. 557,938. 6 Claims. (Cl. 51—56.)

1. In a grinding and lapping machine of the character described, the combination of a work carrying plate, a lapping plate positioned above said work carrying plate, a pin engaging said lapping plate, a driven spindle, a pair of eccentrics keyed upon said spindle, a bar connected to said pin, a bell crank structure having an arm connected with the end of said bar, a pitman rotatably carried by one eccentric and connected with another arm of the bell crank structure whereby longitudinal movement will be imparted to said bar, and means for imparting transverse movement



to the bar including a pitman having connection with the other eccentric for rotary movement thereon during rotation of the eccentric.

1,471,431. GRINDING MACHINE. FLOYD C. WEAVER, Washington, D. C. Filed May 2, 1922. Serial No. 557,939. 5 Claims. (Cl. 51—56.)

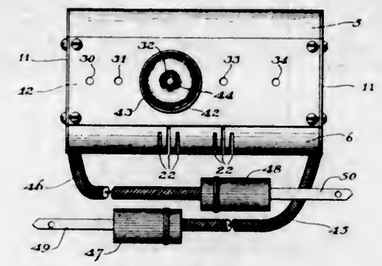


1. In a grinding and lapping machine of the character described, the combination of a work carrying plate, means for supporting said work carrying plate, a lapping plate positioned above said work carrying plate, a pin connected to said lapping plate, a stroke arm connected to said pin, means connected to the stroke arm intermediate its ends for oscillating said stroke arm, and means connected to said stroke arm at the end thereof for shifting the same forwardly and rearwardly, thereby shifting said lapping plate in a variable manner, as and for the purposes set forth.

1,471,432. DEVICE FOR TESTING ELECTRIC CIRCUITS. GEORGE W. WEIFORD, Jr., Philadelphia, Pa. Filed Nov. 12, 1921. Serial No. 514,640. 5 Claims. (Cl. 175—183.)

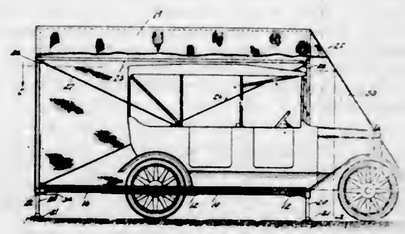
1. The combination of a casing, a resistance coil, an electrical conducting bar electrically connected to one end of the coil, a plurality of terminal contact parts electrically connected to the coil at different distances from the end thereof connected to said bar, means adjustable to

different positions on said bar to electrically connect it to any one of said parts, a terminal electrical conductor



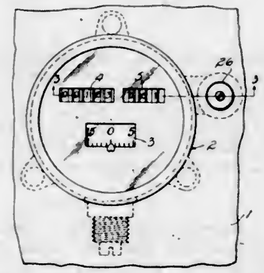
leading from one end of said coil, and a terminal electrical conductor including a testing lamp leading from the other end of said coil.

1,471,433. CAMPING OUTFIT. FRANCIS E. WEST, Alma, Mich. Filed Oct. 26, 1921. Serial No. 510,572. 5 Claims. (Cl. 296—23.)



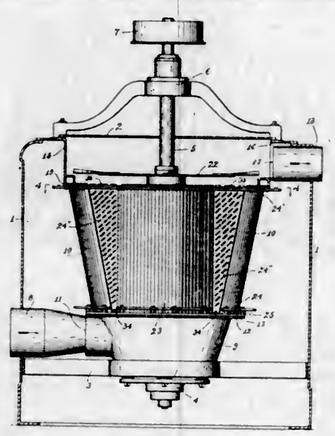
1. A camping outfit including a collapsible frame adapted to be mounted on an automobile or other vehicle, a sectional floor adapted to be laid thereon, means whereby the frame may be extended to receive said floor when arranged for use, and means for collapsing said frame to form bumpers, and extensions to the running board respectively when traveling on the road.

1,471,434. RESETTING MECHANISM. JOHN L. WHEELER, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation of Delaware. Filed June 29, 1922. Serial No. 571,629. 15 Claims. (Cl. 235—144.)



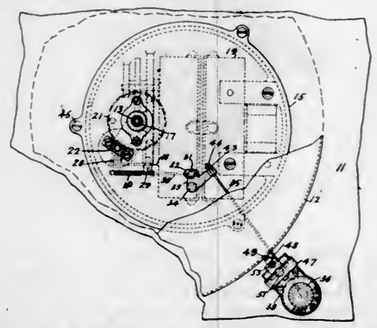
1. The combination with mileage indicating numeral wheels, of an operating spindle, a pair of sleeves thereon, means connecting one of said sleeves with said numeral wheel to restore it to zero position, and means connecting the other of said sleeves with said numeral wheel to move the latter to any desired position.

1,471,435. VERTICAL OPENER FOR CLEANING COTTON. JOHN K. WHITTIER and ROBERT S. CURLEY, Lowell, Mass., assignors to Saco-Lowell Shops, Lowell, Mass., a Corporation of Massachusetts. Filed June 30, 1922. Serial No. 572,052. 11 Claims. (Cl. 19—95.)



1. In a machine of the character described a conical grid having spaced grid bars all of which extend from top to bottom of the grid, the working face of each bar being substantially uniform in width throughout its length, each space between bars being substantially uniform in width throughout its length, and means for compensating for the divergence of said bars from a cone element position.

1,471,436. PHONOGRAPH. CLINTON E. WOODS, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed May 1, 1920. Serial No. 378,034. 5 Claims. (Cl. 188—187.)

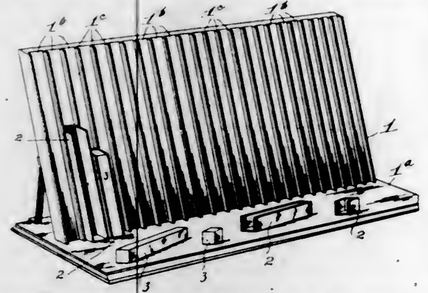


3. In a phonograph, in combination with a cabinet shelf, a turntable and a driven spindle therefor, a controller unit secured to the cabinet shelf and comprising a timing controller, a brake controller and a supporting bracket for said controllers.

1,471,437. PRIMARY EDUCATIONAL APPLIANCE. HELEN WOOD, Cleveland, Ohio. Filed Nov. 16, 1921. Serial No. 515,688. 2 Claims. (Cl. 35—2.)

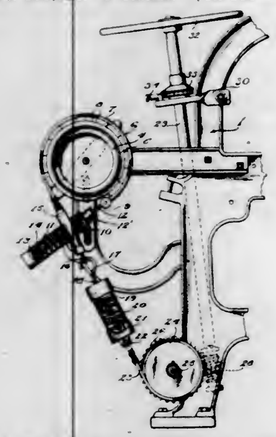
1. In an educational appliance, a series of blocks of uniform given dimensions which are used as elementary units, and a series of blocks having transverse dimensions equal to those of the elementary units and having different length dimensions of increasing sequence multiples of the length dimension of an elementary unit

block, the second series comprising groups of different lengths, a determined number of blocks being twice the length of an elementary unit block, a determined number being three times the length of an elementary block, and so on indefinitely in sequence, there being a determined



number of like blocks in each group and the length dimensions of the blocks in each group being a multiple of the length dimension of an elementary block, and a series of holders for the blocks, said holders being of different lengths corresponding to the lengths of the blocks in both the first and second series.

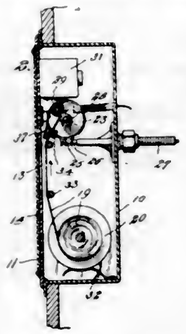
1,471,438. LET-OFF MECHANISM FOR LOOMS. NORMAN R. WRIGHT, Easton, Pa. Filed Aug. 15, 1922. Serial No. 582,024. 3 Claims. (Cl. 188—83.)



1. In let-off mechanism for looms, in combination with a warp beam having a friction drum, a relatively fixed barrel, a plunger working therein, a spring within the barrel opposing the movement of the plunger, a flexible friction element connected at one end with the plunger and engaged about the drum, and means connected with the other end of the friction element and adjustable to exert a pull thereon against the tension of the spring, the last-mentioned means including a bodily adjustable barrel, a plunger therein having operative connection with the said last-mentioned end of the friction element, and a spring within the last-mentioned barrel yieldably resisting movement of the plunger.

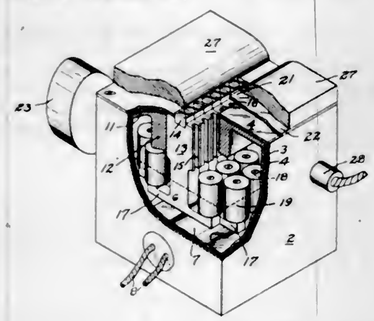
1,471,439. ROUTE INDICATOR. SOL ZETTERBAUM, New York, N. Y. Filed Aug. 21, 1922. Serial No. 583,347. 1 Claim. (Cl. 40—42.)

A route indicating mechanism embodying a casing, separate open front lamp compartments therein, an electric lamp in each compartment, a door hingedly secured to the casing and having a transparent covered opening over each lamp compartment to provide separate signalling devices when the compartments are illuminated, a normally open circuit for each of the lamps, a source of current, a rigid contact member included in said circuits, a door carried separate spring contact member included in each circuit and adapted to engage



the rigid contact member, a tape movable between the spring and rigid contact members to maintain the circuits in normally open position, said tape having perforations at predetermined points to permit the circuits to be independently closed and means whereby the tape may be moved at a speed proportionate to the speed of the automobile.

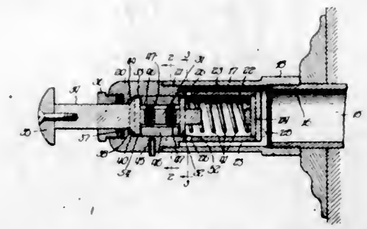
1,471,440. FRUIT-MARKING MACHINE. FRANK AHLBURG, San Francisco, Calif., assignor to Electric Fruit Marking Co., San Francisco, Calif., a Corporation of California. Filed June 5, 1919. Serial No. 301,859. 11 Claims. (Cl. 101—9.)



1. In a marking machine, a die comprising a plurality of die elements having parallel axes, means for mounting said elements for longitudinal motion on said axes, means for resiliently retaining said elements in predetermined position, stationary means contiguous with said die elements for heating said die, and means for permitting articles to be marked to be rolled over said die.

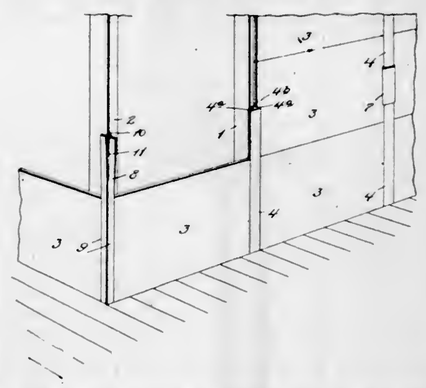
1,471,441. DISPENSING DEVICE FOR LIQUIDS. OLIVER J. BERG, Oak Park, Ill. Filed Feb. 20, 1922. Serial No. 537,851. 8 Claims. (Cl. 221—102.)

1. In a dispensing device of the character described, the combination of walls forming a chamber having an intake and an outlet for a liquid, a reciprocable plunger in said chamber, valve means carried by the plunger and adapted to slide upon the chamber walls having said intake and outlet and being adapted thereby to open and close them, said valve means being adapted to close the outlet and open the intake when the plunger is moved in one of its stroke directions and to close the intake and open the outlet when the plunger is moved in the opposite stroke direction, said valve means being mounted for relative movement toward the walls having the intake and outlet whereby a tight sliding fit may be maintained thereat, and spring means for pressing said valve means against said walls to maintain such tight sliding fit.



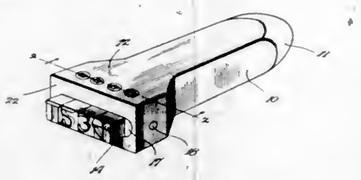
8. In a dispensing device of the character described the combination of cylindrical walls forming a plunger chamber having an intake opening and an outlet opening for a liquid to be dispensed, walls forming a supply chamber into which said plunger chamber extends, said plunger chamber having an opening placing said chambers in communication with each other and having also a discharge opening, a reciprocable plunger in said chamber, yielding valve means carried by the plunger and arranged to move in paths occupied by said openings respectively so as to close and open each of them to receive liquid into and discharge it from said plunger chamber, means for maintaining said yielding valve means in contact with the walls having said openings, a cylindrical plunger stem partly within and partly without said plunger chamber, a packing gland where said stem emerges from said plunger chamber, an annular valve seat adjacent to said gland and within said plunger chamber, an annular valve carried by said stem and adapted to contact said seat when the stem is in its outermost position, and spring means for maintaining said stem yieldingly in its outermost position.

1,471,442. WALL-BOARD SEAM AND FASTENING STRIP. CHARLES BETZ, St. Louis, Mo. Filed July 8, 1921. Serial No. 483,274. 3 Claims. (Cl. 72—118.)



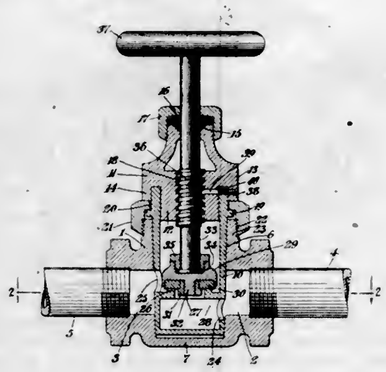
1. As a new article of manufacture, a wall-board fastening and joint-concealing strip of stiff metallic material and of substantially T-form, the same comprising a single-wall rigid web and a pair of flanges presented outwardly from an end of and at an angle to the web, the web being provided with a series of spaced slots trending parallel with the under face of said flanges for accommodating only the heads of strip-fastening members when the shanks thereof are disposed parallel to the web.

1,471,443. INTERCHANGEABLE STEEL-TYPE HOLDER. GEORGE H. BRACHT, Cleveland, Ohio. Filed Jan. 27, 1923. Serial No. 615,268. 3 Claims. (Cl. 101—28.)



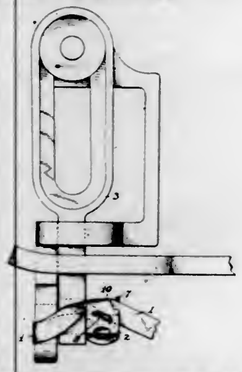
1. A steel type holder comprising a handle, a head integral with the handle and provided with a recess of rectangular cross section forming a seat for a line of steel types, and means for securing the types with their adjacent sides contacting in said recess, said means comprising socket-head set screws, suitable apertures for said set screws being provided in said head between the recess and the front face thereof and said set screws having their outer ends flush with the front face of the head when in position to secure the types.

1,471,444. VALVE. WILLIAM B. BRASSINGTON, Port Richmond, N. Y. Filed Feb. 28, 1921. Serial No. 448,310. 9 Claims. (Cl. 251—157.)



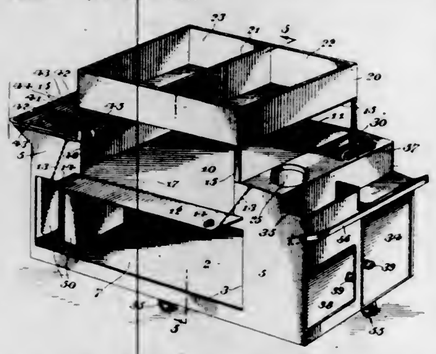
2. The combination with a valve casing provided with inlet and outlet apertures, a rotatable sleeve in said casing provided with inlet and outlet apertures, adapted to be brought into registration with the inlet and outlet apertures of the casing, a main valve located in the sleeve for controlling the passage of fluid therethrough, a plug having a threaded engagement with the sleeve for closing the sleeve at one end thereof, said plug being provided externally with a polygonal portion, a valve stem extending through an aperture in said plug, and being connected to the main valve, said sleeve and plug being provided with registering apertures forming a passage extending to the stem aperture of the plug, and a locking screw extending through said registering apertures to lock the sleeve and plug together for joint rotation, said registering apertures forming part of a vent passage communicating through the stem aperture of the plug with the interior of the sleeve, and said screw forming the closure for said vent passage.

1,471,445. SEALING MEANS. WINFRED M. BROOKS, South Orange, N. J. Filed Aug. 6, 1921. Serial No. 490,213. 5 Claims. (Cl. 292—315.)



1. A shackle seal or the like comprising: a shackle of flexible material, and a sealing member of sheet material on which one end of the shackle is anchored and having a guide open at both ends to slidingly receive lengthwise the other end of the shackle; said sealing member being bent back upon itself in the plane of the guide and shackle to prevent sliding movement of the shackle.

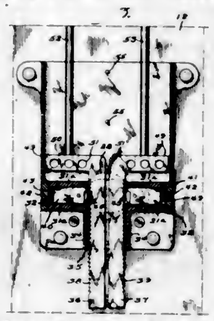
1,471,446. TRUCK. CHARLES H. BROWER, Philadelphia, Pa. Filed Sept. 27, 1921. Serial No. 503,542. 4 Claims. (Cl. 280—50.)



1. A truck of the character described, comprising a plurality of compartments located one above the other, the said compartments being adapted to receive and hold dishes of different sizes, a plurality of receptacles supported upon the said truck but detachable therefrom, said receptacles being adapted to receive and hold small articles such as knives, forks, spoons and the like, a receptacle for receiving soiled napkins, a receptacle for receiving broken china, and a receptacle into which slop is adapted to be discharged through an opening in the truck structure, and a buffer associated with the entrance into said last mentioned receptacle, substantially as described.

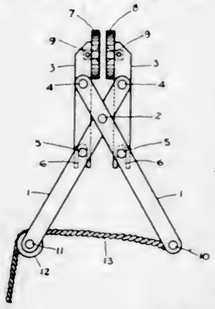
1,471,447. LOCKING DEVICE FOR AUTOMOBILES. THOMAS N. BURGHART, Philadelphia, Pa. Filed July 14, 1921. Serial No. 484,539. 2 Claims. (Cl. 70—126.)

2. A device of the character described including a housing providing a longitudinal guideway and laterally extending guideways; locking bars movable within said longitudinal guideway and having opposed rows of teeth; bolts slidable within said lateral guideways; springs for moving said bolts into locking engagement with the teeth of said bars; rollers carried by said bolts; and an actuating member having a surface for engagement with said



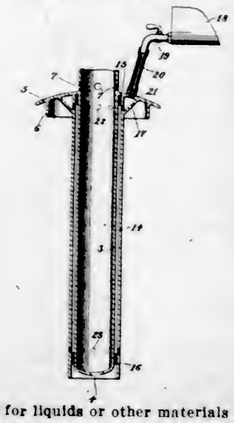
rollers, said surface having opposed pairs of depressions at different distances from the axis of rotation of said member; substantially as described.

1,471,448. GRIPPER. CHARLES WESLEY BURROUGHS, Montreal, Quebec, Canada. Filed June 1, 1922. Serial No. 565,202. 5 Claims. (Cl. 294—86.)



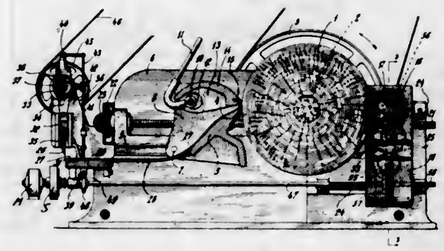
1. In a gripper, the combination of a pair of parallel tongs, with jaws having rotating gripping faces which are grooved concentrically, a tow rope and means to close the jaws by the tension of the tow rope.

1,471,449. RAPID MILK COOLER. MOSES M. CAHILL, Litchfield, Conn. Filed Sept. 21, 1922. Serial No. 589,610. 12 Claims. (Cl. 62—83.)



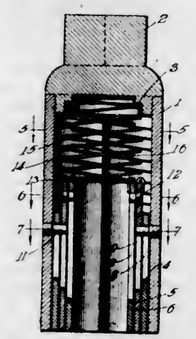
1. A cooler for liquids or other materials comprising the combination of a tube adapted to contain a cooling medium and to be inserted downwardly into a can or other open receptacle containing material to be cooled, and a cover in the form of a collar carried by said tube intermediate its ends adapted to extend over the opening in the can or other receptacle.

1,471,450. MECHANISM FOR SYNCHRONIZING MECHANICAL MOVEMENTS. WILLIAM H. COLLIER, Painesville, Ohio. Filed Oct. 24, 1921. Serial No. 510,080. 11 Claims. (Cl. 144—209.)



1. In a machine having means to rotate a cylindrical member of a material adapted to be cut away or removed in sheets, the combination of a roller arranged to press against said member so as to rotate at the varying surface speed of said member, a device for intermittently acting upon the sheet, means independent of said roller for actuating said device, and means for automatically controlling the operation of said actuating means in synchronism with the speed of operation of said roller.

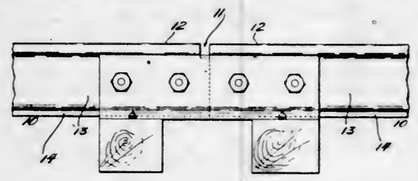
1,471,451. SOCKET WRENCH. ALFRED A. CRIMP, Chicago, Ill. Filed May 25, 1922. Serial No. 563,492. 3 Claims. (Cl. 81—185.)



1. A wrench comprising a stem, a socket casing, a series of sockets slidably nested in said casing, and means between said parts for permitting said sockets to move automatically to accommodate various sized nuts, said means comprising coil springs each having one end engageable with said stem and the other end secured to one of said sockets, and pins secured to alternate sockets and casing and slidable in slots in said sockets to limit the relative longitudinal movement and align the outer ends of said sockets.

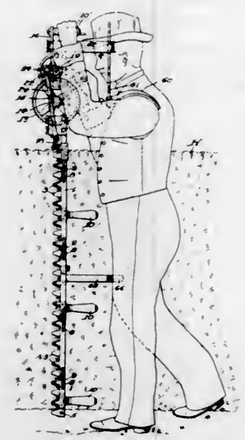
1,471,452. RAILWAY EQUIPMENT. HARRY S. DAUBERT, Amarillo, Tex. Filed Mar. 20, 1923. Serial No. 626,265. 3 Claims. (Cl. 238—151.)

2. In combination, traction rails each comprising a conventional base, web and traction portion, which traction portion is slightly cut-away at a rail end to provide clearance leaving the base and web intact to effect the



usual rail-joint and conventional means for securing said rails together, substantially as and for the purposes set forth.

1,471,453. HEDGE TRIMMER. JOHN C. DETTRA, Oaks, Pa. Filed July 30, 1921. Serial No. 488,541. 4 Claims. (Cl. 30—11.)

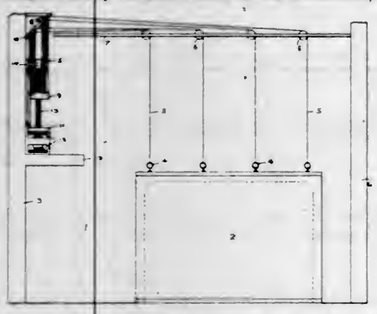


1. In a machine of the class described the combination with a bar and a pair of cutting blades one mounted for reciprocation longitudinally of the bar of a bracket detachably secured to the bar at one end, a member for detachable connection to the bracket or bar, meshing gears carried by the member, said member being adjustable relative to the bar to support the gears for rotation in a plane either parallel with or at right angles to the plane of cut by the blades, a pitman actuated by the gears, and means for connecting the pitman to one of the cutting blades when the gears are in either position relative to the blades.

1,471,454. APPARATUS FOR RAISING AND LOWERING MATERIALS. EDWARD J. DOLAN and PASCHAL TATORE, New York, N. Y. Filed July 10, 1922. Serial No. 573,980. 8 Claims. (Cl. 254—141.)

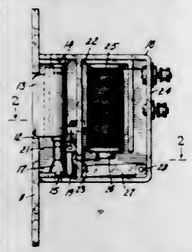
1. Apparatus for raising and lowering a unit of material comprising two electric circuits, a solenoid in each circuit, a shaft, a pair of spaced-apart clutch members free to revolve on said shaft but fixed against longitudinal movement thereon, means for rotating said clutch members in opposite directions, a third clutch member keyed to the shaft but capable of longitudinal movement thereon located between said two first-mentioned clutch members, a brake band normally holding said third clutch member against longitudinal movement on the shaft, means carried by the core of each solenoid for releasing the brake band and drawing the third clutch member into engagement with either of the two spaced-apart clutch members to rotate the shaft in one direction or the other, an endless

screw integral with the said shaft, a block adapted to move longitudinally on said screw on its revolution, flex-



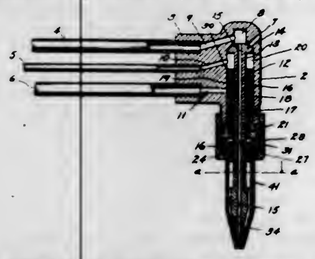
ible connections from said block to the unit of material, and means for making and breaking the electric circuits, for the purpose stated.

1,471,455. ELECTRIC DOOR OPENER. FREDERICK C. ERNST, New York, N. Y. Filed Aug. 15, 1922. Serial No. 582,095. 1 Claim. (Cl. 70—32.)



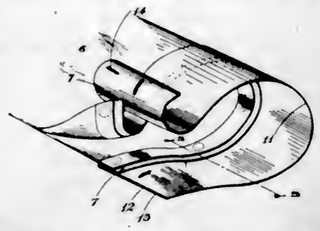
An electric door opener, comprising a pivoted member having a recess, a dog normally seated in said recess to prevent movement of said pivoted member, said dog having a notch, an armature normally abutting against said dog to prevent releasing of said pivoted member, an electromagnet co-operating with said armature, said armature being brought into registry with said notch when attracted by said electromagnet, thereby permitting disengagement of said dog from said pivoted member.

1,471,456. OXYACETYLENE WELDING AND CUTTING TORCH. THOMAS A. ERRETT, Seattle, Wash., assignor, by mesne assignments, to Modern Torch Co. Inc., a Corporation of Washington. Filed Sept. 11, 1919. Serial No. 323,137. 2 Claims. (Cl. 158—27.4.)



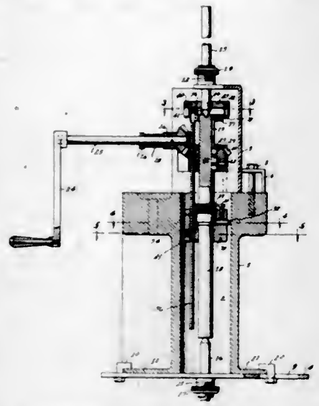
2. A welding and cutting torch, comprising a head for the reception of gases and a tip for the discharge thereof, a plug for said head; said plug having a movably disposed sleeve to form a mixing chamber for the gases and to provide for expansion and contraction thereof, due to varying temperatures of said head, and means for maintaining said tip, sleeve and plunger in functional position.

1,471,457. SHIRT CONSTRUCTION. ALBERT A. FOURNIER, Ottawa, Ontario, Canada. Filed Dec. 28, 1921. Serial No. 525,527. 2 Claims. (Cl. 2—79.)



1. In combination with a shirt sleeve, a wrist band attached to said sleeve, said wrist band having spaced button holes, a reversible cuff having spaced button-holes in one side to register opposite said first button-holes, and a detachable band, said detachable band provided with buttons for engagement through said registering button-holes for detachably connecting said cuff to said wrist band.

1,471,458. CYLINDER-REBORING MACHINE. RAYMOND W. GAGE, Jackson, Mich. Filed Apr. 2, 1921. Serial No. 457,974. 5 Claims. (Cl. 77—2.)

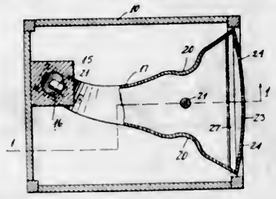


1. In a cylinder reboring tool, a supporting member provided with a center, which supporting member is adapted to be secured to one end of a cylinder so that the said center is disposed axially the bore of the cylinder, a housing provided with an axially adjustable center, which housing is adapted to be secured at the other end of the cylinder so that the said center is disposed axially the bore of the cylinder, said housing having an opening on one side, a boring bar adapted to be supported between said centers for rotation, said boring bar provided with a cutter head and feed mechanism carried by the bar and adapted to be inserted as a unit through the open side of the housing into the bore of the cylinder when the housing is secured to the cylinder, and releasable driving means carried by the housing adapted to engage the feed mechanism of said bar to rotate the same.

1,471,459. TALKING-MACHINE HORN. GEORGE HAMBURG, New York, N. Y. Filed May 24, 1921. Serial No. 472,223. 1 Claim. (Cl. 181—27.)

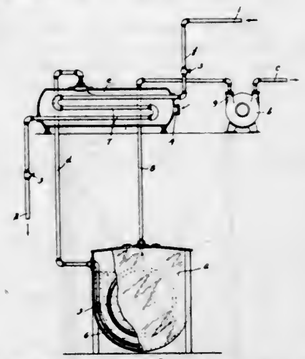
In a talking machine, a horn of substantially rectangular cross section having each of its sides provided with an inwardly bowed portion adjacent to and at equal distances from the front of the horn, a sounding post in

transverse alignment with said inwardly bowed portions, said bowed side portions and said post forming a re-



stricted passageway and said horn flaring forwardly and outwardly from said passageway thereby permitting a swelling of the sound waves at the front of the horn.

1,471,460. PROCESS OF TREATING MILK OR CREAM. JOHN T. HANNA, Hudson, Wis. Filed Feb. 9, 1922. Serial No. 535,376. 5 Claims. (Cl. 99—11.)



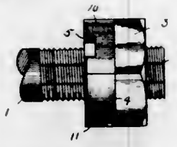
4. The process of treating cream, which consists in heating the same in a substantially closed vessel to bring the same to a uniform temperature and continuing said heating until a slight vapor rises from the surface of the cream, then passing air through the same from distributed points in said vessel for a short period, which air has previously been heated to approximately one hundred and fifty degrees F.

1,471,461. COLD CHISEL. RICHARD J. HARMON, Binghamton, N. Y. Filed Apr. 11, 1922. Serial No. 551,631. 1 Claim. (Cl. 145—24.)



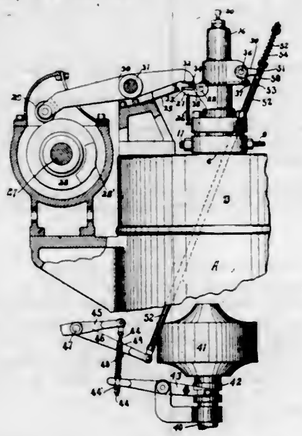
A cold chisel comprising an elongated body of untempered steel having a socket opening through its lower end, whose bottom presents an unbroken surface and a detachable point of steel highly and uniformly tempered throughout and provided with a tapering tang fitted in the socket in the body, the socket and tang being so proportioned that the tang will seat throughout its end area on the bottom of the socket, but the socket walls will first be slightly expanded as the tang is forced therein and the point and body held together by the lateral pressure exerted on the tang by the socket walls, said tang also having a shoulder which does not seat on the end of the socket but is sufficiently spaced therefrom to facilitate the removal of the point.

1,471,462. LOCK NUT. DANIEL C. HARRIS, Virginia, Minn. Filed June 1, 1922. Serial No. 565,148. 1 Claim. (Cl. 151—11.)



An internally screw threaded lock nut of the character described, the exterior of which is formed into a plurality of flat angularly disposed faces, a stepped or cut-away portion on two of the adjacent faces next the inner face of the nut, two concaved recesses one at each termination of the stepped portions and axially parallel with the hole in the nut, an inclined channel on the inner face of the nut one end of which terminates in the hole in the nut and the other in one of the stepped portions, and a contractile removable flat spring key having a dog intermediate of its ends protruding within the channel and into the path of the thread of the nut, substantially as described.

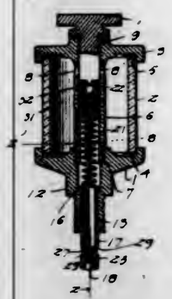
1,471,463. VALVE-CONTROLLING DEVICE FOR INTERNAL-COMBUSTION ENGINES. REINHARD HILDEBRAND, Webster Groves, Mo., assignor to Fulton Iron Works Company, St. Louis, Mo., a Corporation of Delaware. Filed June 23, 1919. Serial No. 306,177. 4 Claims. (Cl. 123—33.)



1. An internal combustion engine of the high compression type having a fuel inlet valve, means for conducting fuel and compressed air to said inlet valve so as to inject the fuel into the engine, valve operating means whereby said inlet valve is opened and closed at fixed periods in the cycle of operations, said valve operating means comprising an operating cam, a driving lever actuated by said cam, a driven lever whereby said valve

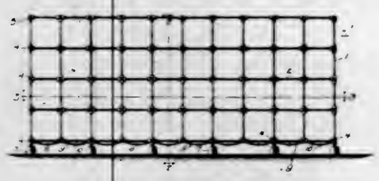
is actuated and a power transmission member slidably mounted between said levers and being independent therefrom, said power transmission member being movable to different positions relative to the fulcrums of said levers so as to vary the movements of said valve, a speed governor, and yielding means connected to said speed governor and to said power transmission member whereby said power transmission member is automatically adjusted to vary the movements of said valve.

1,471,464. BALL-FEEDING VACUUM LUBRICATOR. WILLIAM F. HIMMELSBACH, Syracuse, N. Y., assignor to Kelly Lubricator Corporation, Syracuse, N. Y., a Corporation. Filed Feb. 12, 1921. Serial No. 444,428. 33 Claims. (Cl. 184—71.)



29. A lubricator having a yielding feed tube, a rolling applicator associated with the discharge end of the feed tube for contact with the part to be lubricated, and means adapted to hold the applicator in contact with such part and the feed tube out of contact with such part.

1,471,465. CLIMBING STRUCTURE. SEBASTIAN HINTON, Winnetka, Ill., assignor to Junglegym, Inc., Chicago, Ill., a Corporation of Illinois. Filed July 22, 1920. Serial No. 398,178. 16 Claims. (Cl. 46—69.)

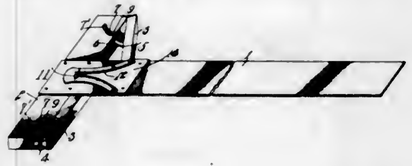


1. A climbing structure for playgrounds or the like, comprising a series of uprights, two series of cross members, mutually crossed and arranged at different levels, all of strong construction, all so proportioned, constructed and combined that children may climb in the interior of said structure over three successive climbing bars in any single direction, said members being so spaced that an average child of predetermined age may straddle adjacent horizontal members.

1,471,466. ETCHING COMPOUND. AARON M. HAGEMAN, Bloomfield, N. J., and JULIUS M. KOVACHY, Cleveland, Ohio, assignors to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Aug. 20, 1920. Serial No. 404,862. 10 Claims. (Cl. 41—42.)

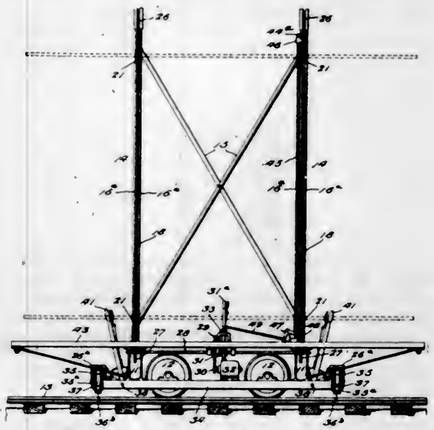
7. A compound suitable for etching glass having, as its active ingredient, a harmless acid salt.

1,471,467. T SQUARE. HUBERT T. HUBBARD, Detroit, Mich. Filed Nov. 9, 1922. Serial No. 599,873. 4 Claims. (Cl. 33—99.)



1. In combination, a T square including a blade and a head, a block pivoted to the head, an indicator, said blade provided with an arcuate slot, said indicator projecting through said slot, and means for holding the block in adjusted position in relation to the head.

1,471,468. LUMBER ELEVATOR. MAXEY JACKSON, Portland, Oreg., assignor to The Jackson Company, Emmett, Idaho. Filed Feb. 9, 1920, Serial No. 357,296. Renewed June 26, 1923. 11 Claims. (Cl. 198—154.)



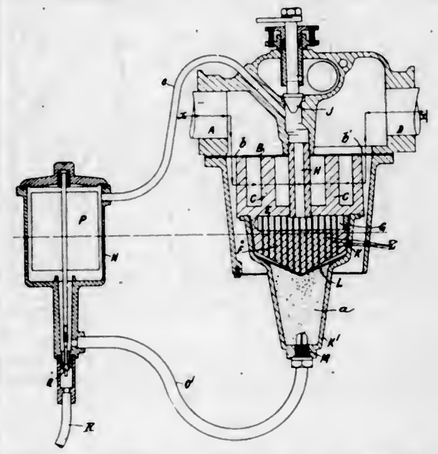
5. In a lumber stacker, a wheel-supported truck and platform, lumber elevating means supported by said truck and platform, a table carried by said truck parallel therewith, and means automatically actuated by direct contact of the upwardly-moving lumber for automatically stopping said elevating means in case the lumber is not removed after a predetermined height is reached.

1,471,469. METHOD OF DETINNING TIN SCRAP AND THE LIKE. EMANUEL KARDOS, Newark, N. J. Filed Apr. 14, 1920. Serial No. 373,957. 4 Claims. (Cl. 204—17.)

1. The method of detinning tin scrap which comprises subjecting the scrap as anode to the action of an alkaline bath in the presence of a material electro-negative to the tin associated with an oxidizing agent.

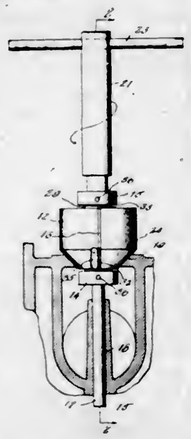
1,471,470. LIQUID-FUEL VAPORIZER. GEORGE KEITH and WILFRED AMBROSE WHATMOUGH, London, England. Filed May 6, 1922. Serial No. 559,036. 3 Claims. (Cl. 48—102.)

2. A liquid fuel vaporizer arranged to be heated by the exhaust gases including a heat-exchanging element comprising a metallic plate having, on its upper side, pins between which the gases pass and having on the under side a solid portion intersected by cuts interconnected by a port



and presenting a liquid contact surface, and a metallic substance in the form of particles contiguous with said solid portion.

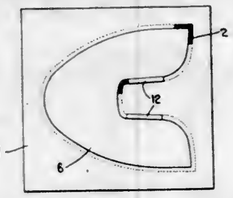
1,471,471. DEVICE FOR FACING AUTOMOBILE VALVE SEATS AND THE LIKE. JOHN Q. ADAMS, Muskegon, Mich. Filed Mar. 18, 1920. Serial No. 366,780. 2 Claims. (Cl. 90—12.5.)



1. A device for facing automobile valve seats and the like, comprising a body, cutting means carried thereby, and adjusting means for moving said cutting means lengthwise of the body and comprising members disposed on opposite sides of said valve seat when said facing device is in grinding position.

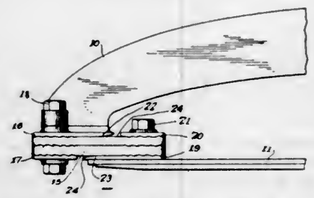
1,471,472. PROCESS FOR MAKING DIES. CARL G. ANDERSON, Boston, Mass., assignor to John E. Swanson, Jamaica Plain, Mass. Filed Dec. 26, 1919, Serial No. 347,506. Renewed July 28, 1923. 8 Claims. (Cl. 22—195.)

1. Steps in the method of forming a die which consist in affixing to a base a series of associated units each having a cross section corresponding substantially to that of the completed die and binding said units together by material substantially homogeneous with that of said units



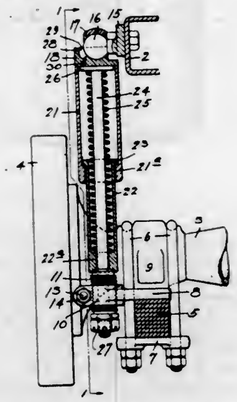
to form an integral structure and using the assembled structure as a moulding pattern and casting a die from the mould formed thereby.

1,471,473. SPRING SHACKLE. HARVEY W. BELL, Ardsley-on-Hudson, and HAZEN L. HOYT, Jr., Great Neck, N. Y., assignors to The Beloyt Corporation, Dover, Del., a Corporation of Delaware. Filed Feb. 12, 1921, Serial No. 444,321. Renewed July 19, 1923. 6 Claims. (Cl. 267—54.)



1. A coupling for cooperating relatively movable supporting members of a vehicle comprising a link of flexible material, means for fixedly securing separated portions of the link to the supporting members and thrust bearings carried by said members and standing in overlapping relation at the opposite sides of the link.

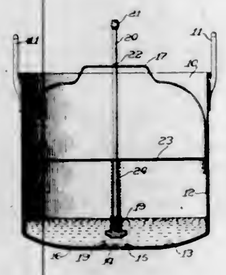
1,471,474. SHOCK ABSORBER. JOHN DAHLSTROM, Pittsburgh, Pa. Filed Mar. 18, 1921. Serial No. 453,410. 4 Claims. (Cl. 267—28.)



1. A shock absorber comprising a vertical helical spring, a member extending through the said spring and having a head engaging one end thereof, a sleeve surrounding the said member beyond the said spring, the said sleeve having an internal diameter larger than the diameter of the said member and having spherically curved upper and lower ends, spring-compressing means interposed between the

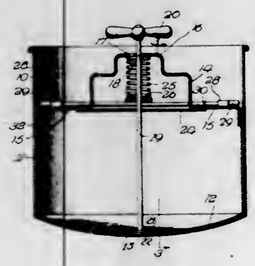
said sleeve and the said spring and having a spherically curved bearing surface engaging the said sleeve, and a nut screwed upon the outer end of the said member and having a spherically curved bearing surface engaging the end of the said sleeve.

1,471,475. RECEPTACLE FOR REMOVING LIQUIDS FROM VESSELS. ALFRED M. DEMUTH, Chicago, Ill. Filed July 13, 1922. Serial No. 574,828. 5 Claims. (Cl. 53—1.)



1. In combination, a vessel, a receptacle adapted to snugly fit within the said vessel and conforming to the contour thereof, there being an opening in the bottom of the receptacle, a valve for closing the said opening, a stem connected with the valve, a handle on the stem, a guide through which the stem freely slides, and means on the stem and co-operating with the guide for locking the valve in an open position.

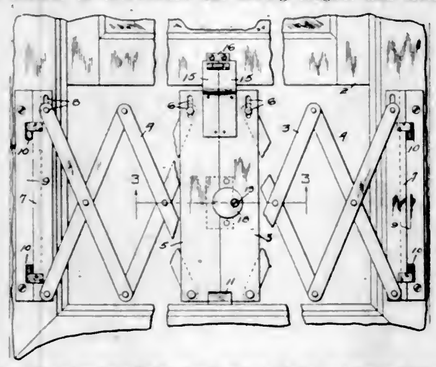
1,471,476. RECEPTACLE FOR REMOVING LIQUIDS FROM VESSELS. ALFRED M. DEMUTH, Chicago, Ill. Filed Aug. 14, 1922. Serial No. 581,695. 3 Claims. (Cl. 53—8.)



3. As an article of manufacture, a receptacle for removing liquids from vessels by insertion thereof into the vessel, and embodying a comparatively shallow open pan like body having an opening through the bottom thereof, a handle connected with the receptacle, a valve for controlling said opening, a stem and handle connected with the valve, and a closure for the receptacle, said valve having a body adapted to rest flat against the bottom of the receptacle around said opening and being provided with a reduced portion adapted to enter and fill said opening.

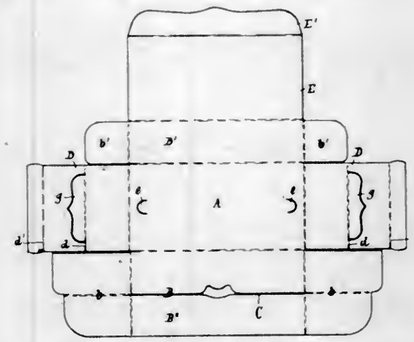
1,471,477. WINDOW GUARD. MARIE B. DUFFY, Toledo, Ohio. Filed Aug. 7, 1922. Serial No. 580,109. 3 Claims. (Cl. 20—71.)

1. In a window guard, a pair of lazy tong parts hingedly connected to the frame of the window and connected to metal strips, a bracket located on the window sash and a bracket on the window sill having tongues and slots,



the strips having slots, the tongues of the brackets fitting the slots of the strips, and the strips fitting the slots of the brackets, means for locking the strips together.

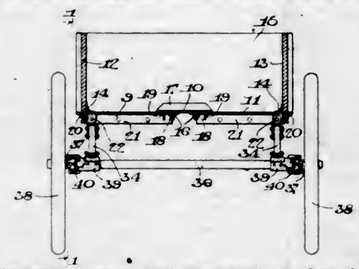
1,471,478. FOLDING PAPER BOX. HERMAN A. FEIGELMAN, Paterson, N. J., assignor to David L. Fleisher, Brooklyn, N. Y. Filed Nov. 14, 1922. Serial No. 600,900. 2 Claims. (Cl. 229—34.)



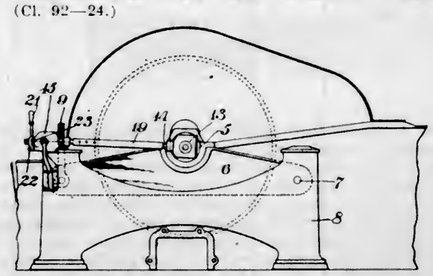
1. A blank of sheet material including a rectangular-bottom-forming portion and side-wall-forming sections projecting from opposite sides of said portion and each having extensions reaching beyond lines coincident with the other two sides of said portion to such an extent that when said sections are bent up into upstanding relation to said portion and the extensions of each section are bent toward the other section said extensions will overreach each other, one of said sections, including the extensions thereof, being wider than the other from said portion outwardly, whereby when the wider section is folded on a line substantially parallel with the adjoining side of said portion and distanced from the latter not less than the width of the other section and said sections are bent up into upstanding relation to said portion and the extensions of each section are bent toward the other section the extensions of the wider section may receive in their folds the extensions of the other section and a box with a bottom and four side walls will be formed.

1,471,479. COLLAPSIBLE TRAILER. ANTON G. GLEISSNER, Milwaukee, Wis. Filed Jan. 26, 1922. Serial No. 531,967. 7 Claims. (Cl. 296—27.)

1. In a vehicle trailer, the combination of a body having a foldable bottom comprising a mid-section and outer sections hingedly connected to said mid-section, sides hingedly connected to said outer sections and foldable therengainst, spring hangers pivotally connected to said outer sections, springs connected to said hangers and foldable therewith between said outer sections when the body is collapsed, and end gates having connection with said outer bottom sections and said sides to complete the wagon-box.

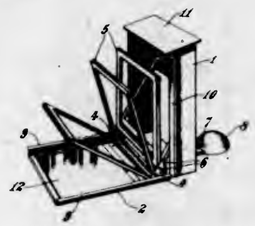


1,471,480. MEANS FOR RAISING AND LOWERING BEATER ROLLS. THEODORE D. GAILEY, Baltimore, Ohio. Filed Jan. 5, 1921. Serial No. 435,085. 1 Claim. (Cl. 92—24.)



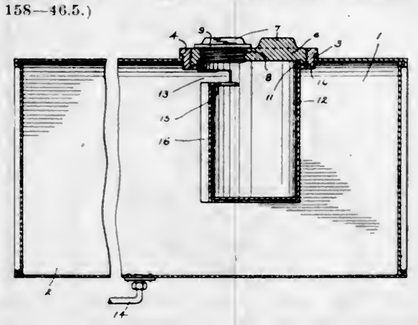
The combination with a beater roll and its shaft, a pair of levers supporting said shaft, screws connected with said levers, worm gear nuts on said screws, a worm shaft having worms engaging said worm-gear nuts, and a telescopic shaft driven by the beater roll shaft for driving said worm shaft and nuts, the parts of said telescopic shaft sliding but not rotating with reference to each other when driven by the beater roll shaft, and a reversing clutch mechanism for operably connecting at will the telescopic shaft with the worm shaft.

1,471,481. TOURIST'S GUIDE. PETER P. GOBBERDIEL, Decatur, Ill., assignor to Samuel B. Dillehunt, Decatur, Ill. Filed Apr. 21, 1921. Serial No. 463,313. 3 Claims. (Cl. 40—102.)



1. An outdoor tourist's guide, comprising, a weather proof protecting casing adapted for mounting on a highway, a front mounted on and movable forwardly from said casing, a series of information leaves mounted within and protected by said casing and adapted for movement out of said casing when said front is opened, said leaves being movable into said casing with said front when closed, and means for sustaining said casing front when open.

1,471,482. FUEL TANK. GEORGE W. GOSS, CHARLES E. GOSS, and CHARLES O. ROSHON, Baltimore, Ohio. Filed July 15, 1920. Serial No. 396,580. 3 Claims. (Cl. 158—46.5.)



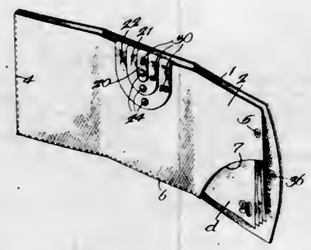
1. In a fuel tank for motor vehicles, the combination with a main tank having an opening formed therein, of a plate member removably fitted within said opening, an emergency tank secured to and situated to depend from the under side of said member and to extend within said main tank, said emergency tank having its upper portion formed with an opening establishing communication between said tanks, and an inwardly directed flange projecting from the inner wall of said emergency tank at a position contiguous to the opening in the latter.

1,471,483. TAG FOR TEXTILE FABRICS. AUGUST CARL HUMMEL, Cincinnati, Ohio, assignor to A. Kimball Co., New York, N. Y., a Company of New York. Filed June 1, 1921. Serial No. 474,132. 11 Claims. (Cl. 40—25.)



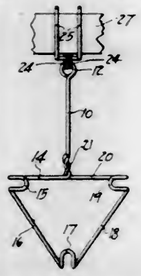
4. A tag for labeling textile goods and fabrics comprising a body portion adapted to bear identifying marks, said body portion having an enclosed slot therein, and a disk-like locking button sufficiently thin to pass readily edgewise through the slot and of sufficient area to overlap the walls of the slot when turned parallel with the body portion.

1,471,484. BILL FOLD. CHARLES A. HUMPHREYS, Chicago, Ill. Filed Mar. 13, 1922. Serial No. 543,187. 9 Claims. (Cl. 150—38.)



1. A bill fold having two covers adapted to contain a bill between them, and a strap located between the covers for separating the bills, said strap being extended whereby it may be brought out around the edge of one of the covers, and means for detachably fastening the end of the strap to the outside of the cover.

1,471,485. TAG HOLDER. ALBERT J. ISAACSEN, Salt Lake City, Utah. Filed Mar. 13, 1922. Serial No. 543,379. 4 Claims. (Cl. 40—11.)



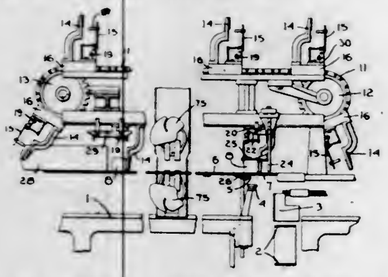
2. In a tag holder, a stem portion, arms extending laterally outward therefrom in directions opposed to each other, two tag-engaging upper lugs suitably disposed on the said arms in positions opposed to each other, frame members extending downwardly from said arms, and a tag engaging lower lug at the lower extremities of the frame members, the said three lugs being so shaped and so placed, relatively to each other, that a tag having a suitable shape, shall pass between the two upper lugs without distortion, and shall come to rest on the said lower lug.

1,471,486. DRY CELL. ARTHUR C. JEWETT, New Haven, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn. Filed July 1, 1920. Serial No. 393,335. 13 Claims. (Cl. 204—38.)



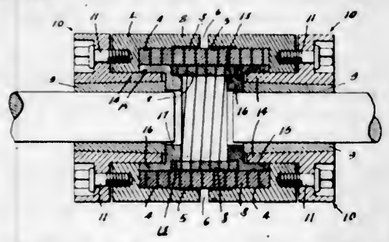
1. A dry cell cartridge having a tubular cover, the axis of which is displaced relatively to the axis of the cartridge whereby the ends of the cover are positioned without the longitudinal axis of the cartridge.

1,471,487. WAX-WRAPPING MACHINE. HARRY L. JOHNSON, Jamaica Plain, Mass., assignor to Percy E. Ginn, Boston, Mass. Filed Apr. 13, 1922. Serial No 552,151. 4 Claims. (Cl. 198—179.)



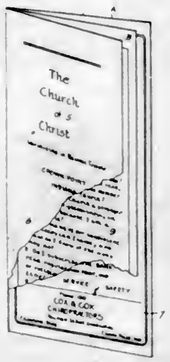
1. In a wrapping machine, the combination with a support on which the packages to be wrapped are supported, of an endless carrier having one run above and parallel to said support and situated above the packages supported thereon, pushers mounted on said carrier and arranged to depend from said run thereof, means to deliver packages singly into position to be engaged by the pushers, the latter operating to move the packages over the support, a clamping member associated with each pusher and adapted to engage the front side of the package engaged by said pusher, each clamping member being mounted to swing about a horizontal axis, and means to swing each clamping member into position to clear a package which has just been delivered to said support and while the corresponding pusher is being brought into operative engagement with said package, and then swing said clamping member into position to clamp said package to the pusher as the latter engages the package to move it forward.

1,471,488. CUSHION SHAFT COUPLING. MAXWELL ROY KARGE, Phoenix, N. Y., assignor, by mesne assignments, to Charles J. Deckop, Buffalo, N. Y. Filed June 23, 1920. Serial No. 391,067. 14 Claims. (Cl. 64—96.)



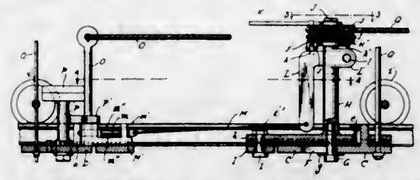
1. A cushion shaft coupling comprising opposing heads, means for securing the heads to the opposing ends of shafts to be coupled, the heads having sleeve extensions extending toward and terminating near and spaced from each other at their opposite ends, and a coiled power transmitting spring enclosed by the sleeve extensions and secured at its ends to the heads respectively, the sleeve extensions being cut away to form a clearance between the intermediate coils of the spring and the inner faces of such extensions whereby the sleeve extensions are normally spaced apart from such intermediate coils and the coils bind on the sleeve extensions when expanded a predetermined distance, substantially as and for the purpose described.

1,471,489. PERIODICAL PUBLICATION. WILLIAM J. KOLLMORGEN and RAYBORN L. ZERBY, South Bend, Ind. Filed Apr. 20, 1922. Serial No. 555,698. 1 Claim. (Cl. 283—56.)



A periodical comprising a removable cover section common to a plurality of issues of the periodical comprising a plurality of folded leaves bearing advertising matter upon their inner faces and an insertable current section carrying current matter specific to a single issue of such publication.

1,471,490. AUTOMATICALLY-OPENING SWITCH. NIC KRUMP, Chicago, Ill. Filed Dec. 26, 1922. Serial No. 608,944. 4 Claims. (Cl. 104—103.)



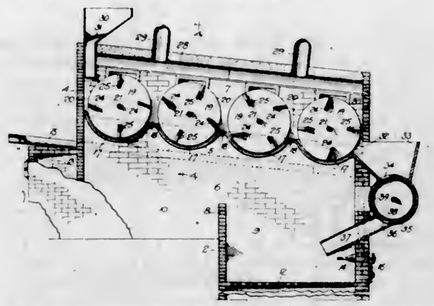
2. In an automatically opening switch, a bolt arranged to be yieldingly held in a normal position to lock said switch in a closed position, means to retract said spring and unlock said switch, said unlocking means comprising a standard, pulleys loosely mounted on said standard, means to limit the angular movement of said pulleys on said standard, a lever extending into the path of movement of a door, in combination with a bell crank pivotally mounted on said standard and attached to the locking bolt, one member of said bell crank in the path of movement of said pulleys, and means to manually close said switch.

1,471,491. DOUBLE-WALL BOX AND METHOD OF MAKING THE SAME. ELIE W. LABOMBARDE, Nashua, N. H. Filed Apr. 10, 1922. Serial No. 551,031. 5 Claims. (Cl. 229—34.)



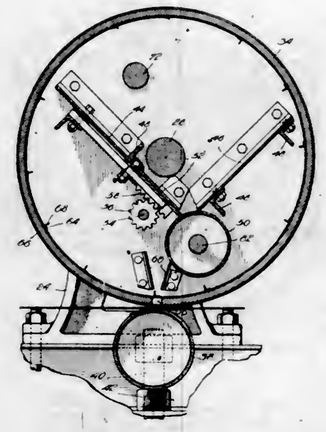
3. A box member comprising a central portion having double-thick side walls provided with inwardly turned end flaps and double-thick end walls enclosing the end flaps of the side walls, edge portions of the end walls bearing on the central portion and locking stops secured to the central portion and overlapping the said edge portions of the end walls, the inwardly turned end flaps being proportioned to cause the lower inner portion of the end walls to be flexed back when said edge portions are engaged by the locking stops.

1,471,492. SHALE RETORT. WILLIAM A. LAMB. Denver, Colo., assignor of one-half to Norman S. Ballantine, Denver, Colo. Filed Dec. 6, 1920. Serial No. 428,737. 6 Claims. (Cl. 196—19.)



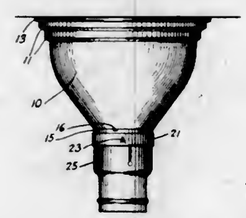
3. A retort comprising a vaporizing chamber having a heated floor provided with transverse depressions, and rotary elements in said chamber, each having alternate series of radiating blades to engage with material in said depressions, the blades of one series being toothed at their peripheral edges for the agitation of the material, and the blades of the other series being slanted to impel the same across an edge of the depressions.

1,471,493. ROOFING MACHINE. THADDEUS J. LORDS and GARFIELD P. LENNARTZ, Chicago, Ill., assignors to Sears, Roebuck and Co., Chicago, Ill., a Corporation of New York. Filed Nov. 5, 1920. Serial No. 421,910. 11 Claims. (Cl. 91—16.)



1. In a device of the class described, a stationary element having a slot in its lower portion, means for moving a strip past below said slot, means for discharging a stream of material through said slot for coating said strip, and means above said slot for interrupting the flow of material to form a pattern on the strip.

1,471,494. ELECTRIC-FIXTURE CANOPY. MITCHELL J. LUBOW, New York, N. Y. Filed Jan. 6, 1922. Serial No. 527,343. 1 Claim. (Cl. 240—78.)



As an article of manufacture, a canopy adapted for attachment to a ceiling or wall and having an integral cylindrical extension receptive of a standard electric socket shell, a plurality of lugs extending radially inward from the canopy adjacent its junction with the extension, against which the socket shell abuts, a band surrounding said extension, means for securing said band, a flange on said band abutting the end of said extension, and means for releasably connecting the cylindrical extension directly with the socket shell.

1,471,495. CONVERTIBLE CHAIR. FREDERICK W. MARHEINE, Spokane, Wash. Filed Jan. 20, 1923. Serial No. 614,033. 1 Claim. (Cl. 155—73.)

The combination with the front and rear legs of a convertible chair, of a pair of side members adapted to form rockers and pivoted at the lower outer sides of

the front legs, a transverse latch bar pivoted at one end to a rear leg, end hooks on said bar to engage over said



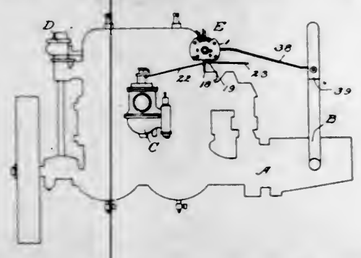
rockers, said latch bar having a transverse groove in its upper edge near its free end, and a stud in one of said rear legs for co-action with said groove.

1,471,496. SWITCH SUPPORT. EDGAR J. MARTEL and ROBERT G. SANYERS, Laconia, N. H. Filed Oct. 25, 1919. Serial No. 333,323. 2 Claims. (Cl. 200—59.)



1. In means of the character specified a supporting member comprising a socket to fit the top of a steering post, a bracket on the socket for securing it to a post, switch elements mounted on the supporting member and adjacent the rim of a steering wheel, and an independent switch element upon the supporting member projecting laterally therefrom.

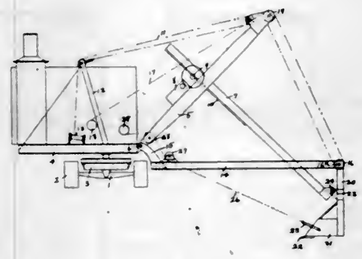
1,471,497. INTERNAL-COMBUSTION ENGINE. JOHN LUSCOMBE MARTIN, Jr., Newport News, Va. Filed Apr. 12, 1922. Serial No. 551,792. 4 Claims. (Cl. 74—107.)



1. A speed governing device for internal combustion engine comprising a pivoted lever connected to the fuel supply, a pivoted lever connected to the timer mechanism, a rotary segment having engagement with said pivoted levers, said segment being connected with the clutch control mechanism whereby the said pivoted levers are simultaneously actuated upon the movement of the clutch control mechanism.

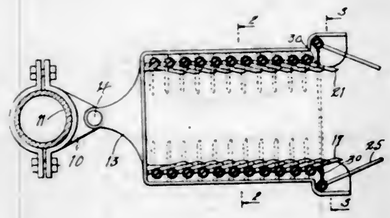
1,471,498. DITCHING MACHINE. WILLIAM E. MCCAIN, Erie, Pa. Filed Jan. 12, 1920. Serial No. 350,953. 7 Claims. (Cl. 214—138.)

1. In a ditching machine, the combination of a platform; a boom pivotally mounted upon and extending from the platform; a dipper; a swinging mounting on the boom for the dipper; a crowding stick secured to the mounting; a crowding engine carried independently of



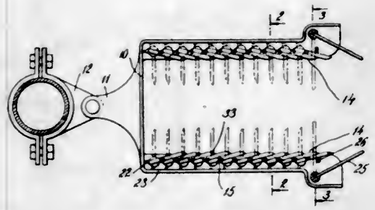
the boom operating on the crowding stick; a drum on the platform; and a pull-in line extending from the drum to the dipper.

1,471,499. FIRE-HOSE RACK. WILLIAM MCCLINTOCK, New York, N. Y. Filed Jan. 29, 1921. Serial No. 440,857. 6 Claims. (Cl. 248—28.5.)



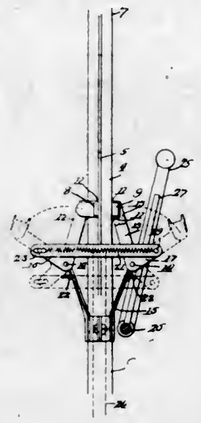
4. In a hose rack, a supporting member and hose carrying arms pivoted in closely spaced relation on said member, said arms being relatively long to project a considerable distance beyond the supporting member and thereby provide long reaching supports for loops of hose and being offset laterally from their pivotal axes in a direction away from the discharge end of the rack, whereby said arms in the hose discharging position will fold together in closely overlapping slightly inclined relation.

1,471,500. HOSE RACK. WILLIAM MCCLINTOCK, New York, N. Y. Filed June 9, 1922. Serial No. 567,122. 1 Claim. (Cl. 248—28.5.)



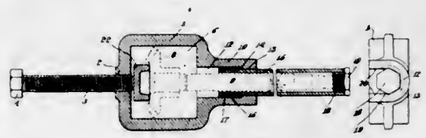
In a hose rack, a supporting member and hose carrying arms having bosses pivoted on said member, each arm being offset vertically from its boss whereby each arm can overlap the boss of the next adjacent arm when the arms are in inoperative position.

1,471,501. LENGTH-DETERMINING DEVICE FOR DRYING FORMS. GUST O. MORTON, Rockford, Ill. Filed Aug. 16, 1919. Serial No. 318,065. 3 Claims. (Cl. 223—17.)



1. The combination of a drying form upon which a knitted article is adapted to be drawn, gripping members adapted to hold the article on opposite sides of the form, bell crank levers carrying said gripping members, and spring actuated means arranged so that the spring pressure will hold the bell crank members in operative and inoperative positions.

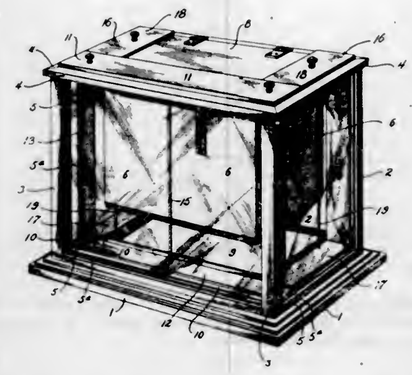
1,471,502. TOOL FOR ASSEMBLING OR DISASSEMBLING GEARS OR CAMS AND THEIR AXLES. DORA MILLER, Toledo, Ohio. Filed Apr. 1, 1922. Serial No. 548,558. 4 Claims. (Cl. 29—85.)



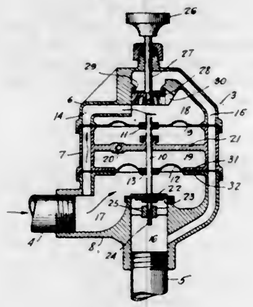
1. A garage tool adapted to effect the assembling of gear and like members upon shafts and the separation thereof, comprising a frame formed to provide an enlarged opening, a threaded bearing at one side of said opening and having a longitudinal recessed bearing portion at the opposite side of the opening, a pressure screw fitted to the threaded bearing, a tubular holding member fitted to the recessed bearing and adapted to support the shaft in an advanced position and against longitudinal movement to permit of a gear member being forced thereon by the pressure screw, said holding means being removable and said frame being adapted, upon removal of the holding means, for supporting the gear member against longitudinal movement and to allow of the longitudinal movement of the shaft with relation thereto under the action of the screw, substantially as described.

1,471,503. REFRIGERATOR. JAY S. MEYER, Philadelphia, Pa. Filed July 28, 1922. Serial No. 578,190. 7 Claims. (Cl. 62—37.)

1. A refrigerator consisting of a casing having side and front walls of double translucent non-heat conducting material, an ice container disposed within the walls of the casing, and an article container extending to the top of said casing between each side wall and the ice container, each container having a top and being removable from said casing without disturbing the top on any other container.



1,471,504. FLUSH VALVE. CLAUS D. MYER, West Hoboken, N. J., assignor to Myer Flush Valve Co. Inc., West Hoboken, N. J., a Corporation of New Jersey. Filed June 25, 1921. Serial No. 480,435. 5 Claims. (Cl. 137—93.)

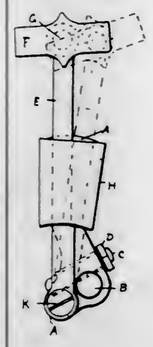


5. A flush valve provided with two diaphragms and an intermediate partition, valves adapted to regulate the pressure of water on said diaphragms, said diaphragms being located on the opposite sides of a chamber divided by said partition, a valve-controlled passageway through said partition, and means to apply pressure to the outer sides of said diaphragms.

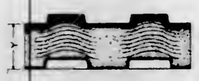
1,471,505. BICYCLE AND THE LIKE. ALBERT EDWARD HORLICK PAYNE, Kildare, Ireland. Filed Oct. 20, 1922. Serial No. 595,860. 5 Claims. (Cl. 208—68.)

1. In a bicycle or the like, a pedal crank having the pedal on an arm that is pivoted on a shorter crank arm

fixed to the crank shaft so that the pedal bearing arm may rock relatively to the crank arm between limits provided by a sleeve or the equivalent without appreciably varying the throw; substantially as and for the purpose herein described and shown.

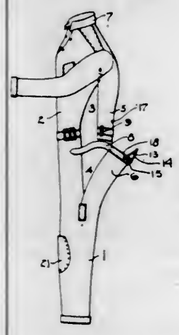


1,471,506. METHOD OF FORMING INTERLOCKING BRICKS. JOHN T. ROBERTS and JESSE C. MARTIN, Jr., San Francisco, Calif. Filed Oct. 7, 1921, Serial No. 505,997. Renewed Sept. 13, 1923. 4 Claims. (Cl. 25—156.)



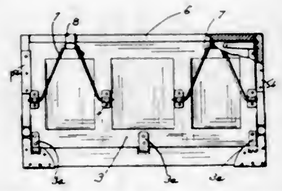
1. The method of forming plastic clay into bricks with bosses and recesses, which bricks when laid with the bosses in the recesses form interlocking wall, consisting in taking a cut block of plastic clay of the same size that would normally form a pressed brick without bosses and recesses, and subjecting the block to pressure in such manner that recesses are formed on one face of the block deeper than the height of the bosses on the opposite face by the displacement of clay from the recess side to the boss side of the block.

1,471,507. OVERSUIT OR OVERALLS. GEORGE K. SMITH, New York, N. Y. Filed June 11, 1919. Serial No. 303,513. 1 Claim. (Cl. 2—144.)



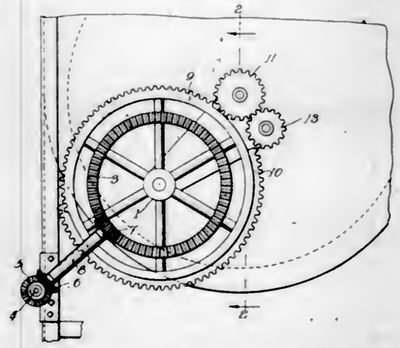
A one piece garment comprising trouser and coat portions formed continuous with each other, said garment being formed with slits at the sides extending upwardly from the waistline and downwardly from the waistline, said garment being separated across the back from one side slit to the other forming coat and trouser flaps, a belt secured to the upper edge of said trouser flap, loops secured to the lower edge of said coat flap and engageable by said belt and buckles secured to said garment at the front and engageable by said belt for holding said flaps in closed position.

1,471,508. COLLAPSIBLE BOX FOR SHIPMENT OF EGGS AND OTHER ARTICLES. JOHN H. SPANGLER, Bemidji, Minn., assignor to Nathaniel Asa Addiss, Minneapolis, Minn. Filed Aug. 8, 1921. Serial No. 490,496. 5 Claims. (Cl. 217—15.)



1. A folding crate having a bottom portion, a short fixed side portion rigid therewith, a side portion hinged to said fixed side portion and foldable down flat on said bottom portions, an opposite higher fixed side portion and another side portion hinged thereto and foldable down on said first mentioned hinged side portion, fixed end sections on said bottom member, hinged end sections connected thereto and foldable downward on said last mentioned side portions, and a top member connected by hinged bails to one of said side portions and foldable down over the same.

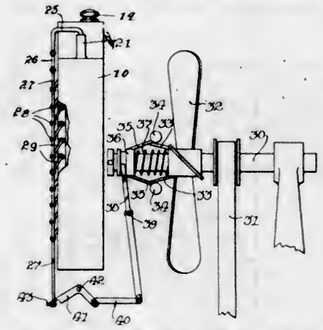
1,471,509. CONTINUOUS REVERSING DRIVE. FRANK V. WIDGER, Chicago, Ill. Filed Jan. 30, 1922. Serial No. 532,559. 6 Claims. (Cl. 74—50.)



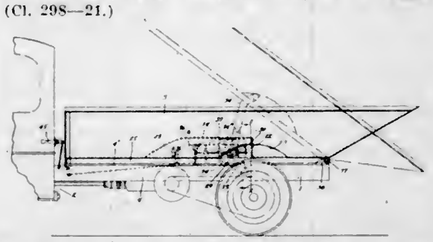
1. The combination with a rotatable member, of a pair of segmental gears at the periphery thereof, a pair of meshing gears each engaging one of the segmental gears, and a member connected to one of the meshing gears for alternately reversing movement therewith.

1,471,510. RADIATOR SHUTTER CONTROL. GEORGE M. WILLIS, Chicago, Ill., assignor, by direct and mesne assignments, to Pines Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 11, 1918. Serial No. 221,639. 5 Claims. (Cl. 123—174.)

1. In a motor vehicle the combination of a radiator having a radiating surface, shutter mechanism for regulating the flow of air over said surface, motor controlled means for closing said shutter mechanism when the motor is at rest, and thermostatic means for gradually varying the position of said shutter mechanism when the motor is running.

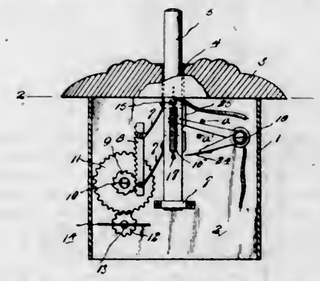


1,471,511. DUMP TRUCK. PERCY E. BARKER, Cleveland, Ohio, assignor to The Van Dorn Iron Works Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 24, 1921. Serial No. 509,923. 9 Claims. (Cl. 298—21.)



1. In a dump truck, the combination of a wheeled chassis, a load receiving body mounted thereupon for raising and lowering movement, and means supported upon said frame and under said body in the region of the rear wheels for raising and lowering said body, the bottom of said body being formed with a housing in the region of the rear wheels for accommodating said raising and lowering means.

1,471,512. INTERMITTENT-CIRCUIT-CLOSING SWITCH. JOSE M. BAYOT, Urbana, Ill. Filed Sept. 18, 1922. Serial No. 588,984. 1 Claim. (Cl. 200—35.)



An intermittent circuit closing switch comprising a support, a push rod on said support mounted for sliding movement, a push button on said rod whereby the rod may be pushed in one direction, means for sliding said rod in the opposite direction upon the release of said push button, an intermittent contact device operated by said rod in its last movement, comprising a V-shaped casting pivoted at its bight and having one leg offset from the other and engaging said rod, a contact finger carried by the other leg and contacts on said rod spaced apart and engageable with said finger in the movement of said rod upon the release of said push button.

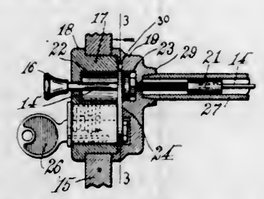
1,471,513. MANUFACTURE OF VISCOSE SILK. EMILE BRONNERT, Mulhouse, France. Filed July 8, 1920. Serial No. 394,840. 3 Claims. (Cl. 18—54.)

1. The process of making artificial silk threads of a fineness from 6 to 2 deniers downwards, which comprises passing viscose through the usual apertures of 0.10 mm. diameter into an acid coagulating solution which permits of the threads formed being drawn to a predetermined fineness, said solution consisting of an alkali earth or metal sulphate or bisulphate having sufficient sulphuric acid to constitute a 20% sulphuric acid solution.

1,471,514. PROCESS FOR THE EXTRACTION OF METALS FROM ORES. ALEXANDER T. ELLIOTT, Los Angeles, Calif. Filed Feb. 13, 1920. Serial No. 358,323. 2 Claims. (Cl. 23—13.)

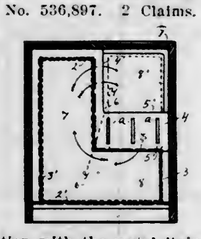
1. The process of leaching ore containing vanadium and uranium, which consists in treating the ore with a solution of nitrate of an alkali metal in the presence of an acid reagent, separating the resulting solution from the residue, treating the solution to remove metals other than vanadium and uranium, separating the uranium from the solution by treatment with an alkali metal hydrate, and treating the remaining solution with a metallic salt to precipitate the vanadium as a metallic vanadate the aforesaid operations resulting in the production of a solution containing an alkali metal nitrate, and using such solution in cyclic operation of the process.

1,471,515. LOCK FOR AUTOMOBILES. IRA M. EULITT, Springfield, Ohio. Filed Mar. 7, 1921. Serial No. 450,333. 3 Claims. (Cl. 251—6.)



1 In a device of the type specified, a lock formed of two portions and provided with a chamber which extends into both portions thereof, a rod slidingly mounted in said casing extending through said chamber and adapted to be connected to a valve in the intake of an internal combustion motor, a stop mounted on said rod and within said chamber and the movement of which is limited by the ends of said chamber, and a lock mounted in said casing and in operative relation with said stop.

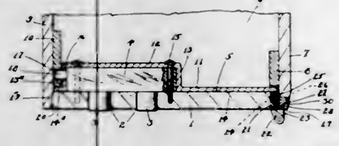
1,471,516. REFRIGERATOR. ANTON FOSHEIM and ANDREW SIMONS, Grand Haven, Mich. Filed Feb. 16, 1922. Serial No. 536,897. 2 Claims. (Cl. 62—89.)



1. In combination with the metal lining of a refrigerator having an L shaped provision compartment, and an ice compartment to one side of the vertical compart-

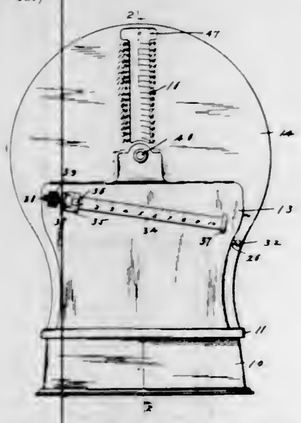
ment and above the horizontal compartment for the storage of victuals, a broad flange integral with the lining and extending therefrom over the vertical side of the ice box, and a broader flange integral with the bottom lining of the ice box and extending upwardly over the lower end thereof, one end of each flange integrally united with the corresponding end of the other, and the other end of each flange integrally united with an outturned flange on the remaining front edges of said lining.

1,471,517. LOCK AND LOCK MOUNTING. EVERETT C. KLINE, Cincinnati, Ohio, assignor to The Laminated Metal Products Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 24, 1921. Serial No. 524,606. 8 Claims. (Cl. 109—12.



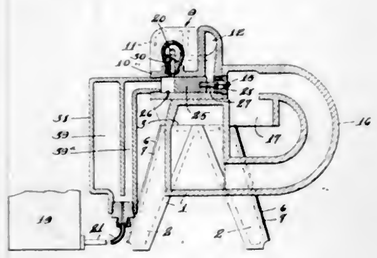
1. In a lock and mounting the combination of a box having a mouth and side walls, a door adapted to enter the mouth and forming a closure therefor, one of the walls of the box having a notch in its forward face, said notch communicating with the mouth, whereby a shoulder is formed adjacent the mouth, a hinge plate mounted on the notched wall and extending into the box, a shoulder on the hinge plate abutting the shoulder on the wall, a complementary hinge plate substantially co-extensive with the first mentioned hinge plate and pivotally mounted on the first mentioned hinge plate exteriorly to the mouth of the box and mounted on the one edge of the door, means to secure the first mentioned hinge plate upon the wall and projecting into the mouth of the box, the second mentioned hinge plate having a notch into which the fastening means may enter, and a band mounted on the door adapted in the closed portion of the door to lie between the side wall and the hinge plates, whereby pressure on the door is directed against the wall, and the engagement of the band on the hinge plates precludes withdrawal of the hinged end of the door from the mouth in event the pivotal connection between the hinge plates is severed.

1,471,518. SCALE. OTIS M. KIRLIN, Watertown, S. Dak. Filed Mar. 13, 1922. Serial No. 543,204. 25 Claims. (Cl. 265—43.)



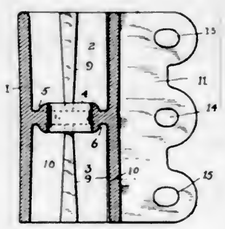
1. The combination with a scale casing, of a main scale beam in the casing fulcrumed for oscillatory movement, an auxiliary scale beam outside of the casing and secured for common oscillatory movement with the main scale beam, a poise on each of said scale beams, and means for operating the poise on the main scale beam.

1,471,519. HEATER. ARLINGTON H. MALLERY, Syracuse, N. Y. Filed Dec. 8, 1921. Serial No. 520,893. 8 Claims. (Cl. 158—65.)



1. A heater comprising a burner, a generator arranged in juxtaposition to the burner to pass the gas thereto and to be heated thereby, the burner having a gas outlet, the burner also having a fuel inlet passage, the conduit connecting the fuel inlet passage and the generator, a piston movable in the passage of the burner and having one face thereof exposed to the pressure of the gas in the gas passage and its other face opposed to the pressure of the fuel, and a valve operable by the piston and arranged to open and close the gas outlet of the burner, substantially as and for the purpose described.

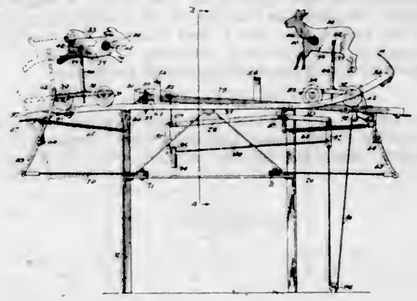
1,471,520. COUPLING. JOHN H. MCCLOY, Pittsburgh, Pa. Filed Dec. 6, 1922. Serial No. 605,317. 15 Claims. (Cl. 287—126.)



1. A coupling comprising a body portion formed with a bore, means arranged within the body portion and in connection therewith providing a pair of oppositely disposed grooves, constituting a pair of seats intermediate the ends of said bore, and angularly disposed flanges projecting from the body portion, and vertically extending ribs integral with the inner face of the body portion.

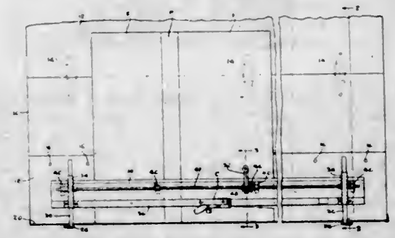
1,471,521. TARGET APPARATUS. EWALD MEININGHAUS, Lancaster, N. Y. Filed Feb. 3, 1922. Serial No. 533,989. 11 Claims. (Cl. 124—16.)

1. A target apparatus comprising a support, a target pivoted on said support to swing vertically and provided with an opening, and a shoulder, and means for holding said target in its normal position, comprising a bull's eye



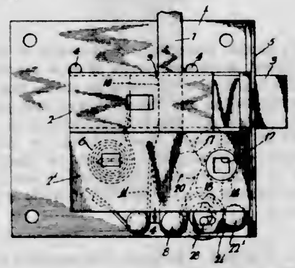
adapted to be arranged in rear of said opening and to engage said shoulder, and movably supported on said support.

1,471,522. STRAIGHTEDGE DEVICE FOR USE IN TRIMMING SHEET MATERIAL. CLYDE H. MITCHELL, Minneapolis, Minn. Filed Oct. 13, 1922. Serial No. 594,309. 3 Claims. (Cl. 164—78.)



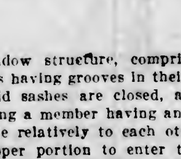
1. A straight edge device for use in trimming sheet material comprising a support, arms pivotally attached to the front of said support, rack teeth on said arms, a straight edge cutting guide, pinions carried by said guide and meshing with said rack teeth, and means for rotating said pinions to vary the distance of said guide from the front edge of said support while maintaining it parallel thereto.

1,471,523. DOOR LATCH. RAYMOND G. MOORE, Bridgeport, Conn., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 28, 1922. Serial No. 557,124. 12 Claims. (Cl. 292—169.)



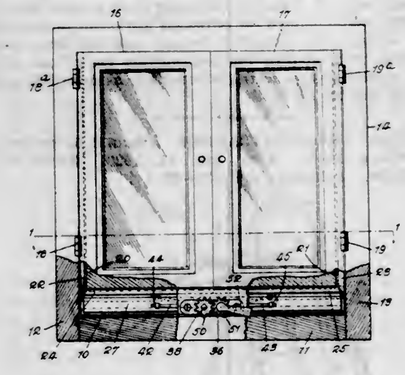
1. In a door latch, the combination of a support, a bolt movable thereon, hand operated means, operable from the inner side of the door, for retracting the bolt, hand operated means, operable from the outer side of the door, for moving said first named hand operated means to retract the bolt, and means operable from the inside of the door for locking the second named hand operated means against movement while leaving the first named hand operated means operative.

1,471,524. COLLAPSIBLE CRATE OR CASE. ADRIAN MOULTON, Devonport, Auckland, New Zealand. Filed June 30, 1921. Serial No. 481,455. 2 Claims. (Cl. 217—48.)



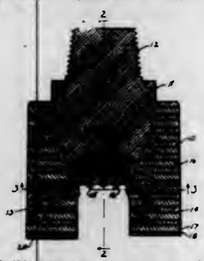
1. A collapsible crate or case formed by end frames, each made of four members arranged to form a rectangle and pivotally attached together, with bottom and sides extending between the frames and secured at their respective ends to the corresponding bottom and side members of the two end frames and with a cover adapted to be removably attached to the top members of the said frames, in combination with end pieces shaped to fit respectively within each of such frames and to lock when extended across within its enclosed area, substantially as specified.

1,471,525. WINDOW LOCK AND GUARD. ALFRED PAVOLA, New York, N. Y. Filed Sept. 20, 1921. Serial No. 502,006. 6 Claims. (Cl. 20—68.)



1. In a window structure, comprising a frame and swinging sashes having grooves in their lower faces which aline when said sashes are closed, a window lock and guard comprising a member having an upper and a lower portion movable relatively to each other, and means for moving the upper portion to enter the grooves in said sashes, said lower portion having sill engaging means, and said moving means comprising a pair of parallel stud shafts extending perpendicular to said member, a pair of arms mounted on said stud shafts and moved by rotation thereof, one end of each of said arms being slidably secured to said movable portion, and means to rotate said stud shafts whereby the arms may be swung to cause vertical movement of said movable portion.

1,471,526. ROTARY DRILL BIT. ROWLAND O. PICKIN, Los Angeles, Calif. Filed July 19, 1920. Serial No. 397,215. 14 Claims. (Cl. 255—61.)



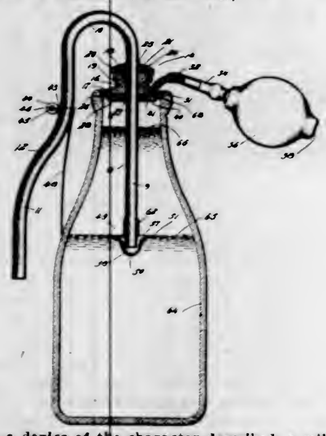
1. A rotary drill bit, having a plurality of separate wings, said wings consisting of a framework formed with inwardly extending cavities therein.

1,471,527. HAIR-STRAIGHTENING BRUSH. JENNIE M. PROCTOR, Pittsburgh, Pa. Filed Dec. 6, 1922. Serial No. 605,242. 5 Claims. (Cl. 132—14.)



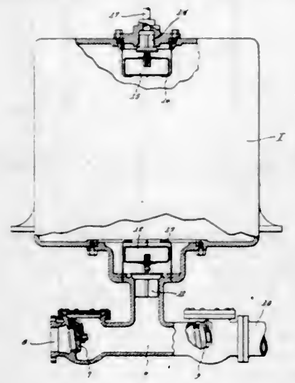
5. A hair straightening brush comprising a body portion consisting of a top member and a bottom plate, said top member adapted to be heated and provided with a rearwardly aligned handle support overlapping said rear edge of said bottom plate, the rear ends of said top member and bottom plate formed to provide a tapering neck, a wire coil handle mounted on said support and having a contracted forward end adapted to engage said tapering neck for detachably securing said plate to said top member, recesses formed in said top member and in said plate providing in combination a plurality of sockets, each of said recesses in said plate having an aperture extending through said plate, and an inflexible tooth formed with a rounded head mounted for universal movement in each of said sockets and extending through said aperture, said rounded head adapted for transmitting heat from said body portion to said teeth, substantially as described and for the purpose set forth.

1,471,528. CREAM EXTRACTOR. LESLIE C. RAWCLIFFE, Foxboro, Mass. Filed Jan. 17, 1923. Serial No. 613,239. 2 Claims. (Cl. 137—20.)



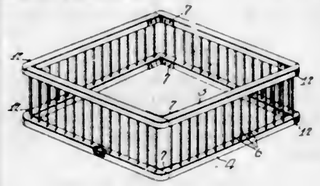
1. In a device of the character described, a milk bottle, a detachable plug on the bottle, a pipe on the plug communicating with the interior of the bottle, a bulb on the pipe, a siphon pipe comprising a conducting portion slidably mounted in the plug extending into the bottle, and a discharge portion exterior of the bottle, a separator within the bottle on the end of the conducting portion of the siphon pipe, and a gage finger on the discharge portion of the siphon pipe extending to the plane of the separator for contact with the side of the bottle.

1,471,529. APPARATUS FOR DISPENSING LIQUIDS. WALDO P. SCHIRMER, Lakewood, Ohio. Filed Apr. 17, 1922. Serial No. 553,670. 3 Claims. (Cl. 221—74.)



1. The combination of a supply tank, a trapping tank having an inlet connection to the supply tank provided with a check valve to prevent back flow from the trapping tank to the supply tank, an air pipe connection to the trapping tank, provided with a vent and pressure valve to vent air from the tank or supply air under pressure thereto, a float valve in the tank, controlling said air pipe connection, an outlet from the trapping tank provided with an outwardly opening check valve, and a float in the tank, controlling said outlet.

1,471,530. CHILD'S GARDEN. LEWIS P. SITTIG, River Forest, Ill., Filed Apr. 6, 1922. Serial No. 549,977. 1 Claim. (Cl. 25—24.)

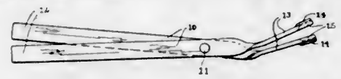


A child's garden comprising a plurality of side walls; hinges attached to adjacent ends of each set of two side walls connecting said side walls in pairs, there being a transverse opening in one remote end of each pair of said side walls; and a pin pivotally connected to the other remote end of each pair of said walls, the pin on each pair of walls being adapted to engage the opening in another pair of walls when in one position and adapted to engage the opening in its own pair of walls when in another position.

1,471,531. PLIERS. EDWARD SCHORRATH, Milwaukee, Wis. Filed July 28, 1922. Serial No. 578,228. 2 Claims. (Cl. 81—3.)

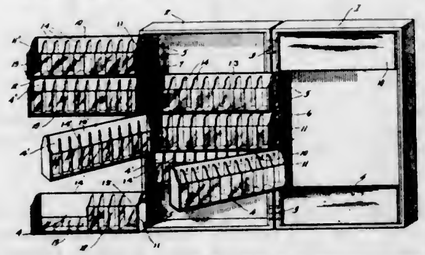
1. A tool of the class described particularly adapted for handling valve pins and keepers comprising a pair of members pivotally connected together intermediate their

length, each member comprising a relatively flat strip of metal, a corresponding end of each member being twisted a quarter turn to form a pair of jaws, the extremity of each jaw being formed with a central depression, which



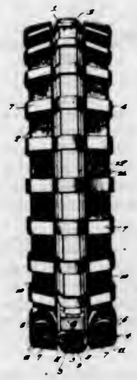
depressions register when the jaws are closed to form a rectangular recess, the portions of each jaw on both sides of said depressions being in the same plane and parallel to the corresponding portions of the other jaw when the jaws are closed.

1,471,532. CABINET. KENNEY L. SHEETS, Mount Vernon, Wash. Filed Jan. 4, 1922. Serial No. 526,918. 1 Claim. (Cl. 211—16.)



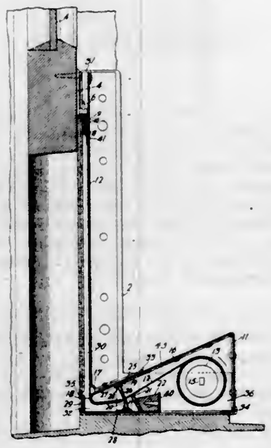
In a cabinet of the class described, comprising two hingedly joined, complemental housings adapted to swing between open and closed position, a plurality of trays, the trays of one housing hingedly supported upon the rear panel forming the support for the complemental housings, and the trays of the other housings hingedly supported upon its forward panel whereby the trays will swing to open position in the same direction, and when moved to closed position within their housings, will be disposed with their back walls outwardly.

1,471,533. BELT TIRE. CALEB W. SHIPLEY, Cincinnati, Ohio. Filed Nov. 15, 1921. Serial No. 515,394. 9 Claims. (Cl. 301—39.)



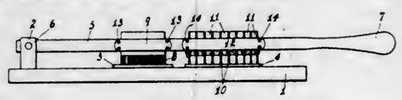
2. A vehicle wheel tire comprising two separate circumferential tire wings, providing a divisional space for the wheel tire, a series of spring links, the opposite ends of which are provided with shoes attached to said wings, and the medial portions of said links being bowed to receive the wheel tire proper, means for attaching the respective meeting ends of said wings to constitute tire belts unitarily conforming to the wheel circumference and free to creep in relation thereto, the said spring links being contoured and tensioned to bring the wing tires into load sustaining and distributing coaction with the wheel tire proper in heavy duty service.

1,471,534. WINDOW SCREEN. EDWIN H. SMYTHE, Evanston, Ill. Filed May 15, 1920. Serial No. 381,690. 13 Claims. (Cl. 156—39.)



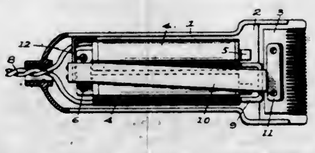
12. In a window screen, the combination with a casing containing a screen having means for drawing it back into the casing when it is withdrawn therefrom, of attaching means automatically operated to attach the free edge of said screen to a window sash and said screen casing to the window casing when said casing is placed in position in a window frame.

1,471,535. PROCESS AND APPARATUS FOR PRODUCING FIBER FROM PALM LEAVES. AUGUST O. TANNENBERG, Oakland, Calif. Filed May 24, 1921. Serial No. 472,052. 1 Claim. (Cl. 19—1.)



In combination, a base, a lever fulcrumed above the base, plates of soft material on the base and knives on the lever detachably secured to the same, the ends of the said knives being adapted to be brought into contact with the plates of soft material by means of the lever.

1,471,536. CLIPPER. LEO J. WAHL, Sterling, Ill. Filed June 23, 1923. Serial No. 647,249. 7 Claims. (Cl. 30—1.)



1. In a clipper the combination of a handle portion, a stationary clipper blade carried thereby, a movable clipper blade cooperating with the stationary clipper blade, an

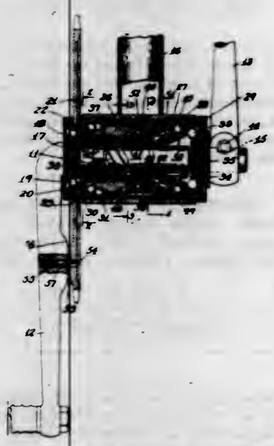
electro-magnetic coil mounted longitudinally in the handle portion, and an armature connected to the movable clipper blade, to move the same, and means for mounting the armature to swing substantially transversely to the axis of the coil.

1,471,537. CHAIN CONNECTOR. MARION C. WILLS, Platte City, and JOSEPH S. DANIEL, Kansas City, Mo. Filed Apr. 17, 1922. Serial No. 554,125. 9 Claims. (Cl. 24—201.)



1. A chain connector comprising a tubular member adapted to receive in one end a chain link, a pin transversely slidable in said member to and from a position in which it will extend through said link, a spring attached to said member and to said pin and arranged to force the latter to said position, link attaching means at the other end of said member, and manually operated means transversely movable through said member and adapted to engage said spring and to force the latter from said position, substantially as set forth.

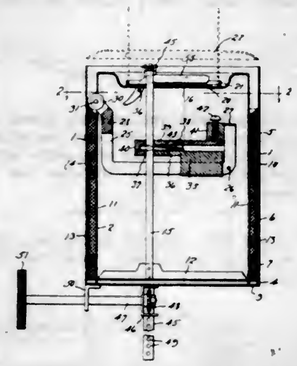
1,471,538. DRIVE AND COASTER-BRAKE CONSTRUCTION. JOSEPH BAISI, New York, N. Y., assignor of one-half to Ambrogio Meili, New York, N. Y. Filed June 28, 1922. Serial No. 571,373. 15 Claims. (Cl. 192—6.)



1. A drive and brake mechanism of the class described comprising a shaft, means whereby said shaft may be rotated, a drive member rotatably mounted on said shaft, and means keyed to and movable longitudinally of the shaft and adapted to be coupled with said drive member whereby the rotation of said shaft in one direction will correspondingly rotate said drive member.

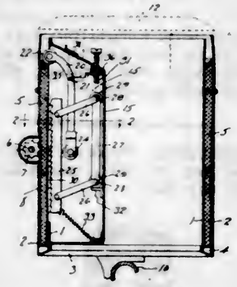
1,471,539. AUTOMATICALLY ADJUSTED WICK STOP FOR OIL BURNERS. LEE S. CHADWICK, Shaker Heights, Ohio, assignor to The Cleveland Metal Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 26, 1921. Serial No. 448,108. Renewed June 6, 1923. 18 Claims. (Cl. 67—66.)

1. In a burner of the class described, the combination with the wick, of a member movable therewith in a direction substantially parallel thereto, a device connectible to said member, means engaged and moved by the wick



when the latter is elevated for effecting the connection of said device to the member, and a stop for limiting the movement of said device.

1,471,540. AUTOMATIC WICK STOP FOR OIL BURNERS. LEE S. CHADWICK, Shaker Heights, Ohio, assignor to The Cleveland Metal Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 5, 1921, Serial No. 449,842. Renewed June 6, 1923. Serial No. 565,746. 21 Claims. (Cl. 67—66.)



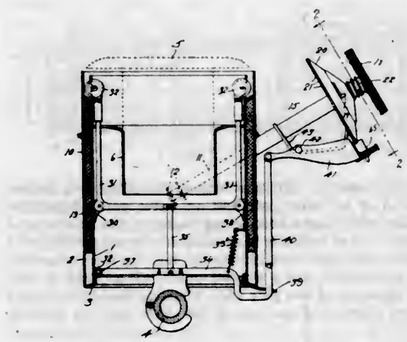
1. In a burner of the character set forth involving a wick guide and means for raising the wick, a brake member for engagement with the wick, a member arranged to be engaged and moved by the wick when the latter is elevated, and operative connections between said members whereby the former is actuated by the latter.

1,471,541. AUTOMATIC WICK ADJUSTMENT FOR LIQUID-FUEL BURNERS. LEE S. CHADWICK, Shaker Heights, Ohio, assignor to The Cleveland Metal Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 26, 1921. Serial No. 448,109. 26 Claims. (Cl. 67—66.)

1. In a burner of the class set forth, the combination of wick raising means, a stop for the wick raising means which acts therethrough to limit the upward movement of the wick, and means arranged to be engaged and actuated by the wick for placing the stop in operative condition.

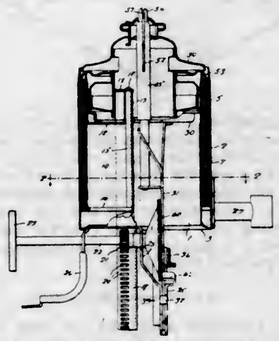
2. In a burner of the class set forth, the combination of wick raising means, a stop for said means, a "lost

motion" connection between the stop and wick raising means, and means arranged to be engaged and actuated by the wick for rendering the stop effective.



3. In a burner of the class set forth, the combination of wick raising means, a movable stop, a stop member, a "lost motion" connection between the wick raising means and stop member, and means arranged to be engaged and actuated by the wick for moving the stop into cooperation with the stop member.

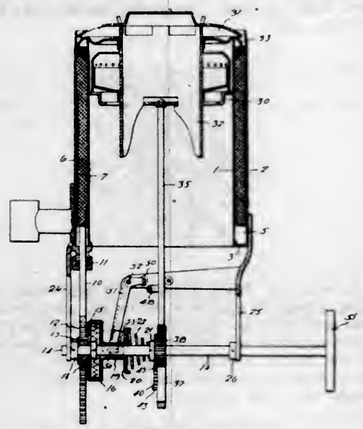
1,471,542. AUTOMATIC WICK STOP. LEE S. CHADWICK, Shaker Heights, Ohio, assignor to The Cleveland Metal Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 12, 1922. Serial No. 528,813. 25 Claims. (Cl. 67—66.)



1. In a burner of the class set forth, in combination with a wick, stop mechanism limiting the upward movement of the wick, and means for rendering the stop mechanism operative, said means incorporating a flame spreader that is adapted to be engaged and moved by the burned portion of the wick and arranged to automatically withdraw therefrom when the wick is in burning position.

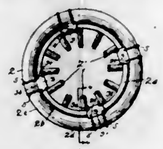
1,471,543. WICK STOP MECHANISM FOR OIL BURNERS. LEE S. CHADWICK, Shaker Heights, Ohio, assignor to The Cleveland Metal Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 12, 1922, Serial No. 528,814. Renewed June 6, 1923. 11 Claims. (Cl. 67—66.)

1. In a burner of the character set forth, the combination of wick raising means, a member arranged to be engaged and moved by the wick, and operative connections between said member and the wick raising means



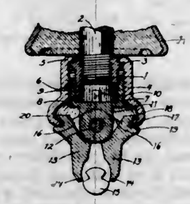
whereby the latter is temporarily thrown out of operation through the movement of said member by the wick.

1,471,544. NONSKIDDING DEVICE. WALTER W. CHAMBERLAIN, Watertown, N. Y. Filed Nov. 8, 1922. Serial No. 599,694. 2 Claims. (Cl. 152—14.)



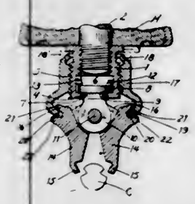
1. In a non-skidding device, a U-shaped metal body adapted to be mounted saddlelike upon the felly of a wheel between adjacent spokes, the opposite edges of the curved portion of the metal body being cut out opposite the adjacent spokes so as to be spaced therefrom, and a lining for the body having flexible edge portions extending across the marginal cut-outs of the body for substantially filling the space between the edges of the curved portion of the body and the spokes to protect the latter from being engaged by the metal body.

1,471,545. CONDUCTOR SUPPORT. HOMER P. CHANDLER, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed May 1, 1923. Serial No. 635,872. 27 Claims. (Cl. 191—43.)



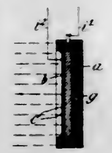
1. A conductor clamp comprising a pair of jaws to grip the conductor, supporting means to secure the clamp to a hanger and means to permit the jaws to be rotated relative to the supporting means and to move the jaws either into or out of engagement with the conductor.

1,471,546. CONDUCTOR SUPPORT. HOMER P. CHANDLER, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed June 18, 1923. Serial No. 646,191. 11 Claims. (Cl. 191—43.)



3. A conductor clamp comprising a supporting means, gripping means to engage a conductor, an intermediate member secured to the supporting member and the gripping means in rotatable relation to the supporting member and operating means rotatably mounted on the supporting means to move the gripping means either into or out of engagement with the conductor.

1,471,547. PRODUCTION OF SUBMARINE SIGNALS AND THE LOCATION OF SUBMARINE OBJECTS. CONSTANTIN CHILOWSKY and PAUL LANGEVIN, Paris, France. Filed May 19, 1917. Serial No. 169,804. 9 Claims. (Cl. 177—386.)



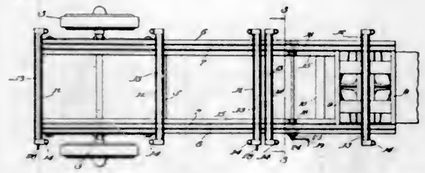
1. Means for producing and receiving directed beams of ultra-sonorous rays which are transmissible in ordinary matter, comprising a plate having a large diameter in proportion to the wave length of the elastic vibrations emitted, and means for synchronously vibrating the entire surface thereof, said plate having a diameter of 30 to 100 centimeters and said waves having a length between 3 and .7 centimeters.

1,471,548. TWO-WHEELED TRAILER. CHARLES G. CLEMENT, Edgerton, Wis., assignor to Highway Trailer Company, Edgerton, Wis., a Corporation of Wisconsin. Filed Apr. 25, 1919. Serial No. 292,580. 3 Claims. (Cl. 280—33.4.)



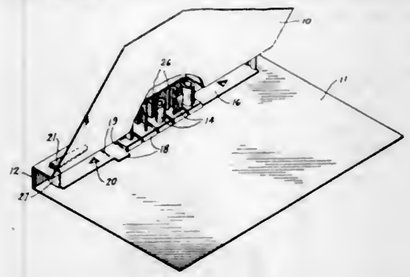
1. In a trailer vehicle comprising a frame and a single pair of wheels upon which it is mounted, a draw bar attached intermediate its ends to the frame by a horizontal pivot, springs between which the rear end of said draw bar is yieldingly checked in its tendency to rock upon said pivot, together with a rod passing through said springs and loosely engaging the draw bar, and a pair of vertical members on the frame between which the rod is mounted by attachment of its lower end thereto, said members having a plurality of holes at different heights, and means associated with the rod for engagement with said holes selectively to adjust the draw bar about its pivot.

1,471,549. EXTENSIBLE TRAILER. CHARLES G. CLEMENT, Edgerton, Wis., assignor to Highway Trailer Company, Edgerton, Wis., a Corporation of Wisconsin. Filed Mar. 19, 1920. Serial No. 367,160. 2 Claims. (Cl. 296—26.)



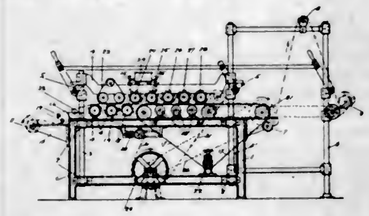
1. An extensible vehicle structure including two frames composed of an inner pair and an outer pair of metallic side bars with means connecting together the two bars of each pair, all of said side bars being of channel section with the outer channels facing inwardly and the inner channels facing outwardly, and a wooden guide rail secured in each of the channels of one pair and extending into the opposed adjacent channel of one bar of the other pair for slidably engaging one frame with the other to permit telescopic adjustment of said frames.

1,471,550. BINDER. DAVID CONLAN, Jr., Brooklyn, N. Y. Filed June 9, 1922. Serial No. 566,951. 13 Claims. (Cl. 129—23.)



4. In combination, a holder provided with an identifying and sheet-securing post having the outline of a recognized alphabetical or numerical figure and thereby identifying the holder by a readable title and a sheet-like element entitled and identified as belonging and attachable to said holder by a perforation of the size and shape of said post, providing both a readable title for said sheet-like element and a means enabling the engagement of the same over the post of the holder.

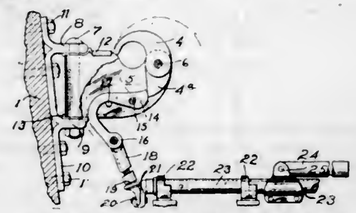
1,471,551. PROCESS AND DEVICE FOR FINISHING TEXTILE FABRICS AND THE LIKE. PAUL EDLICH, Delawanna, N. J. Filed Feb. 27, 1922. Serial No. 539,529. 3 Claims. (Cl. 26—2.)



1. In a machine for imparting a natural appearing finish to a textile weave or similar material, the combination of a series of rollers adapted to alternately rotate

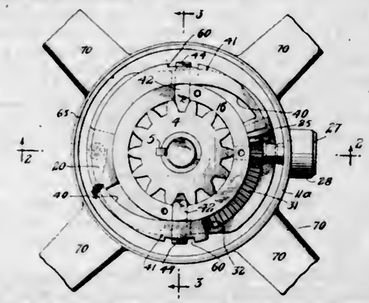
in reverse directions and bear against the reverse surface of the material, a traveling apron disposed opposite said rollers and yieldably supporting the material at its future right surface, another series of rollers, having a greater number of rollers than the first series, adapted to alternately rotate in reverse directions and to bear against the right side of the material, a traveling adjustable apron disposed opposite said second series of rollers for yieldably supporting the material at its finished reverse side, means for adjusting the tension of said last apron, and means for supplying a chemical fabric treating agent to the respective surfaces of the material prior to being mechanically treated by said series of rollers.

1,471,552. RELEASING DEVICE FOR LIFEBOATS AND OTHER SIMILAR CRAFT. RICHARD COREY EDWARDS, Oakland, Calif. Filed May 5, 1919. Serial No. 294,894. 2 Claims. (Cl. 9—23.)



1. A releasing device for life boats, to be used in duplicate, of the kind described, comprising frames made integrally and pivotally attached to the hull of the said boat, at the ends thereof, a hook mounted on a fulcrum within each of the said frames, the said hooks each having an elongated shank and forming a lever below the said fulcrum, the faces of the said shanks being straight and mounted at right angles with respect to the triggers, when the hooks are closed; a trigger of two parallel sections mounted on a fulcrum within each of the said frames so that the front ends of the said triggers may be brought in contact with the said levers when the hooks are closed, the front ends of the said triggers at the point of contact with the said levers, being beveled downwardly; a shaft rotatably disposed in the said boat and extending along the keel thereof, a crank rigidly affixed to each end of the said shaft, an operating lever mounted on the said shaft and relatively movable telescoping releasing rods connecting the cranks and the triggers, the said cranks being so attached to the said shaft that the hooks if closed when the operating lever is in a horizontal position, will be locked.

1,471,553. STEERING MECHANISM. ELWOOD R. FELL, Philadelphia, Pa., assignor to Harvey J. Fiet, Philadelphia, Pa. Filed Aug. 16, 1919. Serial No. 317,863. 19 Claims. (Cl. 70—127.)



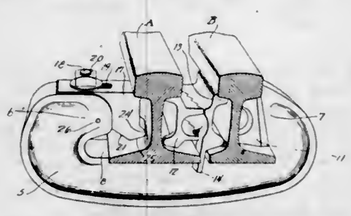
8. In a device of the character described, the combination of a steering shaft, a steering wheel, means for connecting and disconnecting said wheel with and from said shaft, an ignition circuit, and means whereby the said circuit may or may not be grounded when the said steering wheel is in disconnected relation with respect to the said steering shaft as desired.

1,471,554. COMBINED TAIL LIGHT AND LICENSE-MARKER ILLUMINATOR. DOMENICK GACOPETTA, Norwalk, Conn. Filed Dec. 8, 1922. Serial No. 605,720. 2 Claims. (Cl. 40—131.)



1. A combined tail light and illuminating device for license plates comprising a relatively flat shaped conical casing, having plane front and rear walls the apex of which is positioned uppermost, the rear wall of the casing being disposed at an acute angle with reference to the front vertical wall, a tail light glass positioned in said rear wall, a vertically disposed number plate positioned beneath the casing in substantially vertical alignment with the front vertical wall, a lamp positioned in the upper central portion of the casing, the rays of light from which are reflected by the outer angularly disposed wall of the casing against the face of the license plate.

1,471,555. GUARD-RAIL CLAMP. RICHARD D. GALLAGHER, Chicago, Ill. Filed Mar. 3, 1922. Serial No. 540,747. 4 Claims. (Cl. 238—21.)

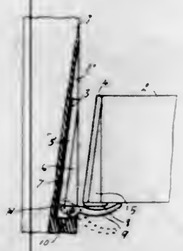


1. A guard rail clamp including a yoke adapted to underlie a track rail and a guard rail and having upwardly directed ends, one of said ends being formed with two parallel surfaces inclined to the horizontal, a wedge member having similar parallel and inclined surfaces for cooperating with said ends, and means for moving said wedge on said yoke for clamping purposes.

1,471,556. BEDSTEAD CONSTRUCTION. ANDREW GILDER, Grand Rapids, Mich. Filed Mar. 13, 1922. Serial No. 543,183. 1 Claim. (Cl. 5—300.)

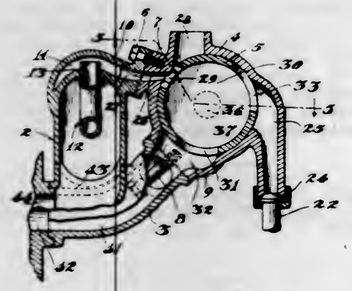
In bedstead post and rail construction, a dovetailed mortise made longitudinally of the post, a metal lining fitted into said mortise and having a dovetailed slot formed inwardly from the front surface of said lining, said slot being deep and narrow at the lower end and broader and shallow at the upper end, a correspondingly formed tongue secured to the end of the bed rail in position to accurately fit into said slot, an arm integral with said tongue in position to extend under the end of the

bed rail, a lever pivotally mounted in the metal lining of the mortise in the post and so positioned that pressure upon the outer end of said lever will force the inner



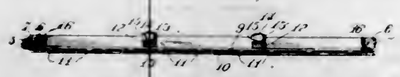
end thereof upwardly and so loosen the tongue in the groove in the metal lining that the rail may be readily removed from the bedpost.

1,471,557. CHARGE-FORMING DEVICE. CARL H. HALLAUER, Los Angeles, Calif. Filed Nov. 3, 1921. Serial No. 512,485. 10 Claims. (Cl. 123—122.)



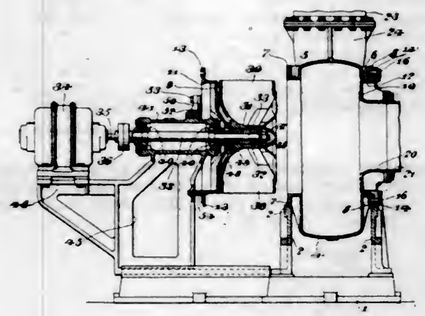
1. A charge-forming device comprising an exhaust manifold a shell mounted upon said exhaust manifold, an air heating tube fixed in the said manifold, a hollow distributor valve adapted to receive hot air, cold air and fuel mixture through separate inlets leading thereto, a carburetor, an inlet and an outlet pipe to said carburetor communicating with said tube and said distributor valve respectively, said valve having a common outlet for its inlets, and means for manually operating said valve.

1,471,558. FORM FOR USE IN MAKING BOX BLANKS. GORDON HOPKINS, Chicago, Ill., assignor to National Box Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 12, 1921. Serial No. 451,909. 11 Claims. (Cl. 1—8.1.)



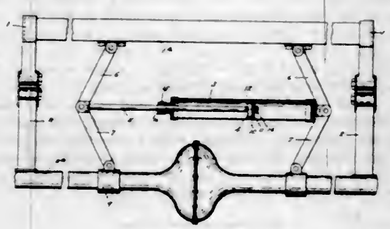
8. A form of the character described comprising a rectangular angle iron frame having inwardly projecting flanges around the margins thereof adapted to support longitudinally-disposed cleats, a cross-bar mounted on said frame, and springs alined with and projecting beyond the end portions of said cross-bar and adapted to engage the cleats and press them against the side portions of said frame.

1,471,559. FAN BLOWER. PAUL W. KNAUF, Cynwyd, Pa., assignor to Schutte and Koerting Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 2, 1922. Serial No. 565,345. 6 Claims. (Cl. 230—11.)



1. In a fan-blower, the combination of a casing, a fan, a bracket support for the said fan, the said support and fan being adapted to be adjusted so as to position the said fan within the said casing or outside of the same, and a closure for the opening within the casing through which the said fan is adapted to be inserted and removed, the said closure being supported upon a portion of the fan-supporting structure.

1,471,560. SNUBBER. GEORGE W. LANGFORD, Ann Arbor, Mich. Filed Dec. 5, 1919. Serial No. 342,748. 3 Claims. (Cl. 188—88.)

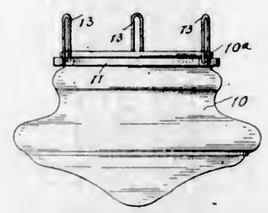


1. In a vehicle, the combination with a frame and an axle, of a horizontal cylinder disposed between said frame and said axle and containing a liquid, a piston rod extending into said cylinder, toggle levers connected to said frame and to said axle, said levers being also connected respectively to said cylinder and to said piston rod, a piston within said cylinder and carried by said rod, said piston having ports therethrough, said piston rod being provided with means for permitting a restricted flow of liquid from one side of said piston to the other, and slidable means upon said piston rod for closing the ports in said piston.

1,471,561. GLOBE HOLDER FOR LIGHTING FIXTURES. WILFRID LUMLEY, Conneaut, Ohio. Filed Dec. 12, 1921. Serial No. 521,677. 5 Claims. (Cl. 240—149.)

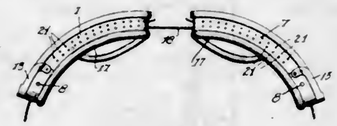
1. A globe holder for a lamp, comprising a split band adapted to be extended about the neck of a globe, said band having end portions adapted to be drawn together or spread apart to permit the band to be contracted or expanded, and an elongated substantially flat endless link

slidably and rotatably engaging the end portions of the band whereby when said link is in a position in which it extends lengthwise alongside the band the band is free



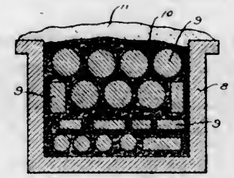
to expand and when said link is turned to a position at right angles to the plane of the band said band is contracted and held in contracted position.

1,471,562. EYE PROTECTOR. ROBERT MALCOM, Chicago, Ill. Filed Jan. 16, 1922. Serial No. 529,632. 9 Claims. (Cl. 2—149.)



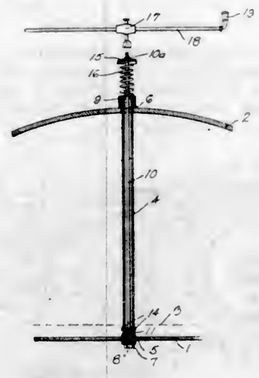
1. An eye protector comprising a pair of lens-holding frames, each of which is bent to form an eye cup curved in the direction of the length thereof and having a groove formed therein to receive the lens, an end member movably attached to each frame and folding over the end of the lens to hold the same in position, said end member having a slot therein registering with a corresponding slot in the lens holding frame, and a head band, one end of which extends through the aforesaid slots in each eye protector.

1,471,563. CARBONIZING COMPOUND AND PROCESS OF MAKING AND USING IT. STANLEY B. MATHEWSON and WALTER K. JAMISON, Springfield, Ohio, assignors to Walter K. Jamison, Stanley B. Mathewson, Howard F. Marston, Mrs. W. K. Jamison, and Mrs. S. B. Mathewson, trustees of the Lecar Carbon Company, a Trust Estate. Filed Apr. 3, 1922. Serial No. 549,274. 7 Claims. (Cl. 148—30.)



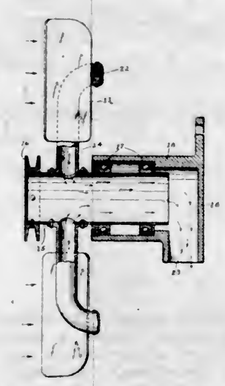
1. In a new article of manufacture to be utilized for carbonizing metals, fixed carbon and volatile matter to act as a carrying agent for the carbon into the surface of the metal upon heating in the presence of the metal to be so treated.

1,471,564. LOW-WATER ALARM FOR STEAM BOILERS. WILLIAM A. MCKEOWN, Columbus, Ohio. Filed May 2, 1921. Serial No. 466,321. 1 Claim. (Cl. 122—504.1.)



In a device of the character described, in combination with a low-water signal and the crown sheet of a boiler, a tube supported relative to the crown sheet, a shaft supported in said tube and operably connected to the signal, means to operate said shaft, a fusible element secured to the shaft, a stop secured in the tube adjacent the fusible element and normally cooperating therewith to prevent operation of said shaft, said fusible element having clearance providing for movement of said shaft relative to the stop in one direction and portions adapted to engage the stop to prevent movement of the shaft in the opposite direction.

1,471,565. AIR CLEANER. JOHN LEWIS MILTON, Cleveland, Ohio. Filed Oct. 18, 1919. Serial No. 331,537. 9 Claims. (Cl. 183—77.)

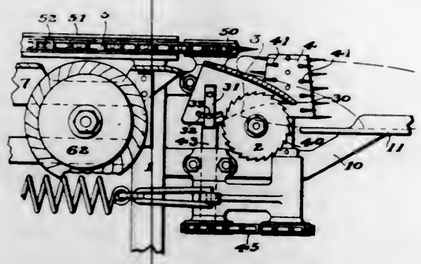


1. A centrifugal cleaner, the combination with rotary means for creating a flow of a gaseous fluid in a straight line, of an air intake device in the current produced by said means and rotatable therewith, said device having an axial portion and means for admitting air thereto comprising a radial duct extending outwardly from the axial portion and having an intake opening adjacent its outer end.

1,471,566. MOTOR FUEL. JOHN J. MURPHY, Chicago, Ill. Filed July 5, 1922. Serial No. 572,973. 9 Claims. (Cl. 44—9.)

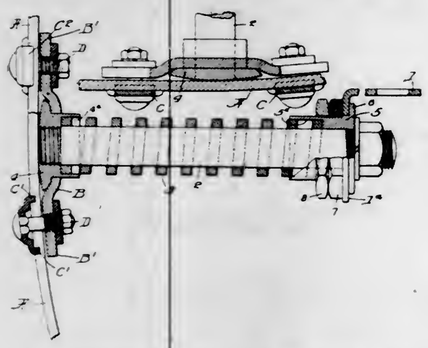
1. A fluid fuel consisting of coal oil forty parts, benzole forty parts, ether five parts and alcohol twenty parts.

1,471,567. FISH-DRESSING MACHINE. NIELS C. NICHOLSON, Seattle, Wash., assignor to Seattle-Astoria Iron Works, Seattle, Wash., a Corporation of Washington. Filed Mar. 6, 1923. Serial No. 623,104. 12 Claims. (Cl. 17—3.)



1. In a fish dressing machine, a slitter saw, a plow positioned over the slitter saw with its concave side down and having a point adapted to enter the visceral cavity of a beheaded fish in advance of the slitter, and means for feeding the fish back up to carry it over said plow and slitter.

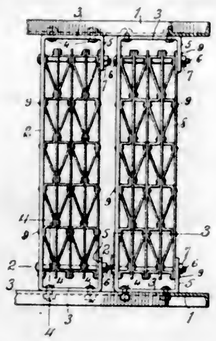
1,471,568. COMBINED COMPRESSION SPRING AND SPRING-BAR BUMPER. JOHN K. OLSEN, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Apr. 7, 1922. Serial No. 550,303. 5 Claims. (Cl. 293—55.)



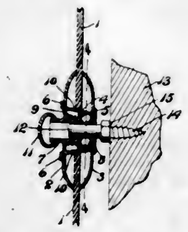
1. An automobile bumper, in combination with a flat bar spring impact member, a supporting member comprising a coiled spring and an axial compression bolt extending therethrough, the impact bar bearing against the head of said compression bolt, and said head being horizontally curved convexly forward at the bearing of the bar thereon.

1,471,569. STAIR. WILLIAM L. PATTISON, Rosedale, Kans. Filed Sept. 13, 1922. Serial No. 587,956. 5 Claims. (Cl. 189—43.)

1. A stair tread comprising a nosing bar having a front portion and two arms which extend rearwardly and then inwardly toward each other, the arms being adapted to be supported by two stringers respectively, and a tread grating attached to and supported by said front portion and said inwardly extending portions of said arms, substantially as set forth.

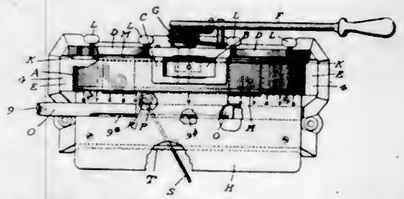


1,471,570. CURTAIN FASTENER. JOHN L. PETERSON, Grand Rapids, Mich. Filed June 26, 1922. Serial No. 570,828. 4 Claims. (Cl. 24—230.)



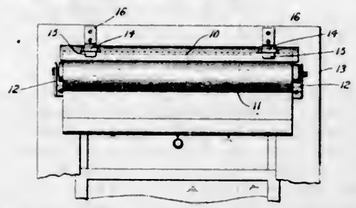
1. In combination with a supporting structure, a pin attached thereto, a curtain, a fastener connected with the curtain, including clamping members, one on each side of the curtain, means fastening the clamping members together and clamping the same against the curtain, spring actuated gripping means located within the said means used to fasten the clamping members together and adapted to be placed over said pin to grip the same, and means for manually operating said gripping means to release the same from the pin, substantially as described.

1,471,571. PUNCHING MACHINE. ADOLPH RUBIN, St. Louis, Mo. Filed Jan. 16, 1922. Serial No. 529,617. 12 Claims. (Cl. 164—91.)



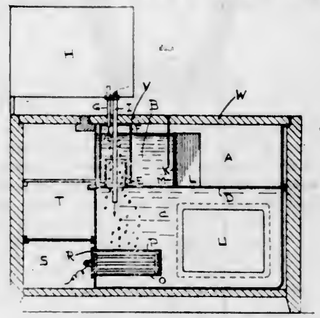
1. A punching machine, comprising a reciprocating platen, a punch and die combined to form a single punching unit that is adjustably mounted on the base of the machine, and means for positively retracting the punch when the platen of the machine is restored to its normal position, said means being so constructed that it permits the punching unit to be adjusted longitudinally and transversely of the platen without destroying the operative relationship between said retracting means and punch.

1,471,572. SHADE SHIELD. GUNNAR H. RYDBERG, Auburn, R. I. Filed Oct. 13, 1921. Serial No. 507,420. 4 Claims. (Cl. 156—10.)



2. A curtain roller cover and cleaner comprising a hood adapted to extend along the length of and cover the roller, said hood being provided with a lining adapted to engage and wipe the surface of the curtain on the roller, and a pair of supporting arms detachably connected to said hood for pressing the lining into contact with the curtain and following its changing diameter.

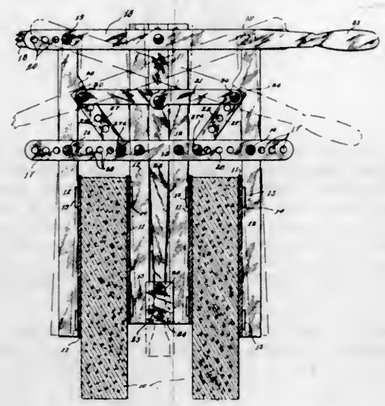
1,471,573. APPARATUS FOR HOUSEHOLD COOKING. ANDREAS SAXEGAARD, Christiania, Norway. Filed Jan. 23, 1922. Serial No. 531,205. 9 Claims. (Cl. 126—20.)



1. A domestic cooker, comprising a casing, a horizontal portion therein forming superposed water receptacles, a cooking chamber formed in the upper receptacle, means in the lower receptacle for heating the water therein, and means to allow water and steam to rise from the lower receptacle without passing into the cooking chamber.

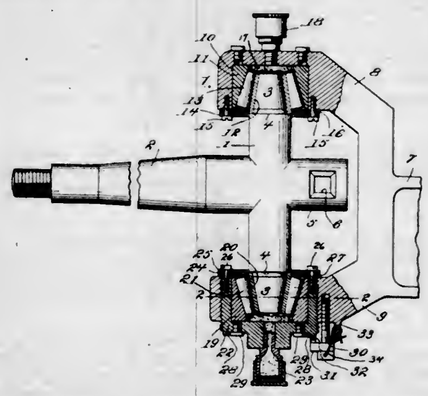
1,471,574. REMOVABLE MOLD FOR CONCRETE WALLS. DANIEL AUSTIN SHEELER, Granton, Wis. Filed June 15, 1921. Serial No. 477,800. 4 Claims. (Cl. 25—131.)

1. A clamp for cement molds comprising spaced inner and outer clamping bars, a bar arranged across the central portion of all of the said bars, means for pivoting said inner bars to said cross bar, and means for pivotedly and adjustably connecting said outer bars to the outer ends of the said cross bar, a lever adjustably pivoted to one end of each of said outer bars, the said levers being arranged in overlapping relation with each other and substantially parallel to said cross bar, a slide bar mounted between said inner bars and pivotedly connected to the central portion of both of said lever bars, the opposite end of said slide bar being tapered and provided with an enlarged head, guide members adjacent to each side of said head, locking bars adjustably and pivotedly mounted on said cross bar, a toggle bar pivotedly and adjustably mounted between both of said locking bars, the said locking bars being designed to engage notches in the outer clamping bars when in one position of their movement.



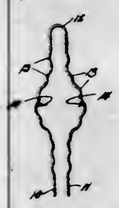
3. A mold for constructing concrete walls comprising spaced parallel plates, a detachable and adjustable frame member for supporting said plates in operative position relative to each other, each of said plates being provided with a series of openings, the said openings of one plate corresponding with those of the opposite plate and being arranged in rows, the said rows corresponding to the inclination of the standard pitch of the roofs, a rod detachably mounted in corresponding openings of a given row of openings.

1,471,575. AUTOMOBILE SPINDLE MOUNTING. ORVAL G. SIMONS, Weldon, Tex. Filed July 22, 1922. Serial No. 576,775. 8 Claims. (Cl. 280—96.1.)



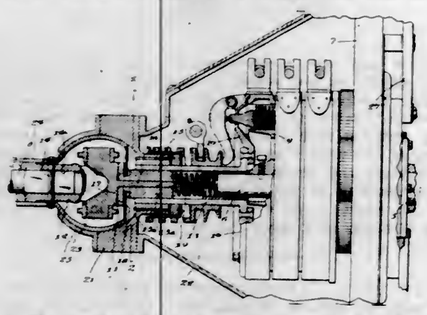
1. In a steering spindle mounting, the combination with a spindle shank having a tapered end portion, and an axle, of a bushing mounted on said tapered end portion, a bearing cup with a taper bore carried by the axle, a roller bearing interposed between the bushing and the bearing cup, a bearing adjusting nut carried by the axle, and locking means carried by the axle and engaging said nut.

1,471,576. HAIRPIN. IVA R. SKINNER, Hazel, N. Y. Filed May 9, 1921. Serial No. 467,816. 1 Claim. (Cl. 132—50.)



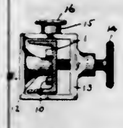
A hair pin formed of a single piece of material, bent to form spaced legs, each of said legs being crimped substantially its entire length, the crimped portions terminating short of the head of the pin and in spaced relation to the free ends of the legs to provide smooth inserting points, and said legs having intermediate portions bowed outwardly in opposite directions in the arc of a circle to provide a retaining means for said pin.

1,471,577. AUXILIARY CLUTCH FOR MOTOR VEHICLES. ARTHUR SOSS, Utica, Nebr. Filed Dec. 3, 1921. Serial No. 519,701. 2 Claims. (Cl. 192—67.)



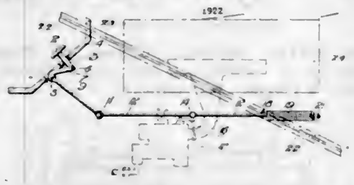
1. The combination with the drive shaft of a motor vehicle, and a driving shaft therefor; of a universal joint connecting said shafts, one of the members of said joint having clutch jaws and a projecting stem, a stem slidably mounted on said stem and provided with matching clutch jaws, said slidable stem being connected to and driven by the driving shaft, and means for shifting said slidable stem to engage and disengage the clutch jaws.

1,471,578. DISPLAY AND SERVING RACK. HARRY D. STEARNS, San Francisco, Calif. Filed Jan. 11, 1922. Serial No. 528,526. 1 Claim. (Cl. 211—27.)



A display and serving rack comprising a plurality of supporting members and means for locking said members in spaced relation, each member provided with a plurality of recesses, a corner bracket for each member comprising a frame surrounding said member with a freedom of movement for said frame, and an inward projecting tongue thereon adapted to engage any recess of the corresponding member, a screw by which said freedom of movement may be restrained when the tongue is engaged in any recess, a plurality of shelves each of greater width than the rack, and a pivot having an enlarged end on said corner bracket and adapted to support one corner of a shelf.

1,471,579. FOOT-OPERATED ACCELERATOR FOR MOTOR VEHICLES. JAMES A. THOMSON, Mildura, Victoria, Australia. Filed May 8, 1922. Serial No. 559,386. 7 Claims. (Cl. 74—81.)



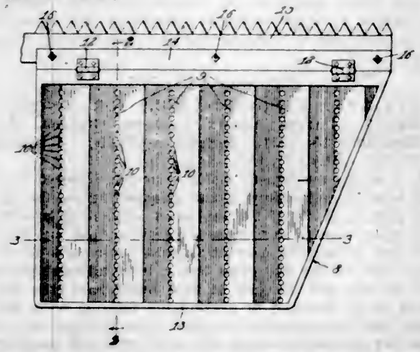
1. An accelerator for motor vehicles comprising a foot pedal; a pivoted bell crank lever secured at one end to said foot pedal; a connecting rod secured at one end to the bell crank lever and secured intermediate of its ends to a throttle arm; and a spring for operatively securing said connecting rod to an arm of said hand control, whereby operation of the hand control causes movement of said connecting rod to open the throttle to a predetermined extent.

1,471,580. TIRE. JOSEPH S. WALTON, Los Angeles, Calif. Filed May 11, 1923. Serial No. 638,236. 5 Claims. (Cl. 152—8.)



1. In a tire, a series of U-shaped spring wire elements arranged side by side and each having its cross head of channel shape, hinge elements flexibly connecting the channel shaped portions of said spring elements, eyes at the ends of the spring elements, cables extending through said eyes, a fibrous covering enclosing said spring elements and hinge elements, a cushion member arranged in the channel-shaped portions of said spring elements, and a casing enclosing said cushion element and the fibrous covering of said spring elements.

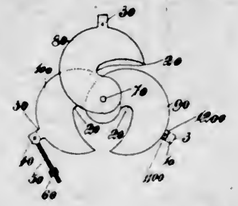
1,471,581. SEED PAN. RAY WRIGHT, Jackson, Miss. Filed Dec. 20, 1920. Serial No. 431,993. 1 Claim. (Cl. 56—207.)



In a grain pan, a bottom wall, a front wall, end walls and a relatively wide rear wall, a cover for the pan and having hinged connection therewith adjacent to

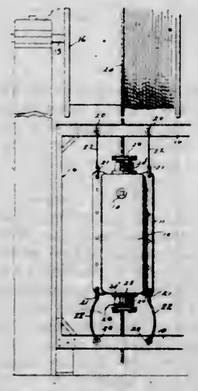
the front wall, said cover being formed with a plurality of parallel grooves providing ridges lying in planes with the edges of the cover, said grooves having spaced openings extending throughout the lengths thereof, said pan adapted to be secured to the cutter bar of a mowing machine, the ridges of the cover extending at right angles to the cutter bar to receive material therefrom.

1,471,582. METHOD AND MEANS FOR SQUEEZING TUBES OF PAPER CONTAINING HAIR CURLERS AND EMPLOYED IN THE ART OF UNDULATION. LOUIS AGOSTINI, Paris, France. Filed July 29, 1922. Serial No. 578,398. 1 Claim. (Cl. 132—31.)



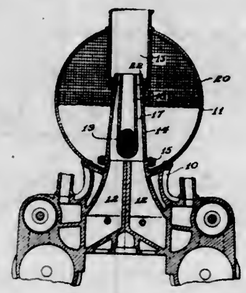
A pincher for hair curling, comprising a disc having a portion cut away from the center and having a locking screw nut moving backwards and forwards and oscillating on an extension, and oscillating itself on an axle between two other similar discs, with a similar member to shut the two parts and maintain them closed by the said screw operating the fastening and then holding the paper tube.

1,471,583. CABLE-LUBRICATING DEVICE. ANDERS S. ANDERSEN, West Palm Beach, Fla. Filed Oct. 10, 1921. Serial No. 506,801. 3 Claims. (Cl. 184—15.)



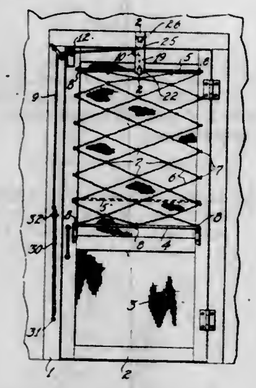
1. In combination with a hoisting cable operative through a winding drum, a lubricant container through which said cable may pass, means for suspending said lubricant container so that the same will be stationary with respect to the cable but free to move so that the same will be automatically retained in alignment with said cable during the winding and unwinding thereof, and a packing gland associated with each of the points where the cables enter and passes from said container adapted to cause a predetermined amount of lubricant to adhere to said cable.

1,471,584. LOCOMOTIVE EXHAUST NOZZLE. EDWARD B. BARR, Newton, Kans., assignor of one-half to George T. Warhurst, Newton, Kans. Filed Aug. 24, 1921. Serial No. 495,135. 1 Claim. (Cl. 162—4.)



In a locomotive exhaust nozzle, the combination of a cylindrical shell provided at its lower end portion with oppositely disposed flattened sides and formed internally with an axially disposed flue pipe having oppositely directed lateral branches at its lower end opening through said sides near the lower end of the shell, the pipe being of uniform diameter and the shell being tapered above the flattened portions thereof to gradually approach the upper end of said pipe.

1,471,585. SCREEN-DOOR INSECT BRUSH AND DESTROYER. FRANCIS P. BESSETTE, Wichita, Kans. Filed Apr. 1, 1921. Serial No. 457,776. 9 Claims. (Cl. 230—7.)



1. The combination with a swinging door, of an insect brush, means for moving the brush in one direction, and means whereby the brush is moved in the opposite direction at the moment the door approaches a predetermined position.

1,471,586. TIRE CHAIN. PRESTON BROOKS BLOCKER, Silver City, N. Mex. Filed Nov. 7, 1921. Serial No. 513,545. 7 Claims. (Cl. 156—14.)

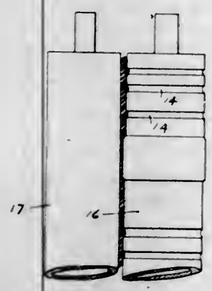
1. A tire chain comprising inner and outer side chains, means for adjustably connecting the ends of the inner side chain, a hook at one end of the outer side chain and a ring at the other end thereof, cross linkage between and connected to said side chains, said linkage including a terminal connected to said outer side chain at its ring-carrying end and a cross chain terminating in a free end near the hook-carrying end of said outer side chain; said

free end of said cross chain being adapted to be passed under said terminal and having a ring for registration with the aforesaid ring; said hook-carrying end of said



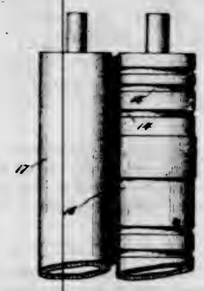
outer chain extending beyond said cross chain and being adapted to be passed through both of said rings doubled back and hooked into said outer chain.

1,471,587. METHOD OF FORMING OUTSOLES FOR RUBBER FOOTWEAR. STEPHEN W. BOUAN, Providence, R. I. Filed July 5, 1919. Serial No. 308,688. 6 Claims. (Cl. 18—59.)



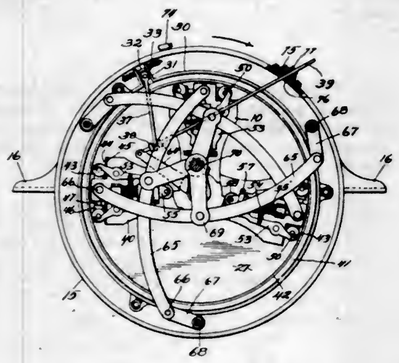
1. The method of forming sheet stock for outsoles of rubber footwear which consists of partially imbedding a narrow strip of material of the finished width into the wearing surface of a sheet of rubber during its passage through the calender rolls.

1,471,588. MACHINE FOR MAKING OUTSOLES FOR RUBBER FOOTWEAR. STEPHEN W. BOUAN, Providence, R. I. Filed Sept. 30, 1920. Serial No. 413,831. 2 Claims. (Cl. 154—1.)



1. In a machine for forming sheet stock for outsoles for rubber footwear, a set of calendar rolls shaped to sheet the stock and produce a heel, shank and ball portions from which the outsoles are cut, means for guiding an independent strip of wearing material between a pair of said rolls to embed it into the wearing surface of the stock, and said embedding roll being provided with a groove of a depth to permit a portion of said strip to remain above the normal wearing surface of said stock.

1,471,589. POWER TRANSMISSION. HENRY A. CARSON, St. Joseph, Mo. Filed Mar. 7, 1921. Serial No. 450,323. 20 Claims. (Cl. 74—53.)



1. A transmission mechanism comprising a drive shaft formed with a crank arm, a driven wheel journaled on said shaft and provided with a peripheral flange, an oscillating clutch arm provided with clutch elements for intermittently gripping said flange, a drive link actuated from said crank arm, and means for pivotally supporting one end of said link, the other end of said drive link being operatively connected with said clutch arm.

1,471,590. PROPELLER. SAMUEL W. CARTER, Washington, D. C. Filed Oct. 2, 1922. Serial No. 591,927. 14 Claims. (Cl. 170—159.)

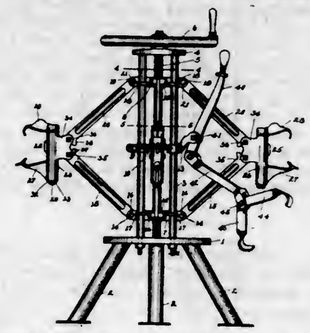


1. The method of determining the apex points of the leading and trailing edges of propeller blades which consists in determining the length and maximum width in elevation of the desired blade, describing the vertical and horizontal center lines of the elevation of the propeller, erecting a perpendicular at a point on the horizontal center line a predetermined distance from the vertical center line, dividing the predetermined width into a number of equal fractional parts, laying off on the perpendicular a predetermined number of said parts to determine the apex point of the curve of the trailing edge of the blade, laying off a line from said apex point inclined at a predetermined angle to the horizontal center line and crossing the same, measuring the remainder of the width downward from said horizontal center line perpendicularly thereto to determine the distance from said horizontal center line of the apex point of the leading edge, and laying off a line at such distance through the angular line to determine by the intersection of said lines said apex point.

1,471,591. TIRE CHANGER. CHESTER ALVIN CLARK, Oakland, Calif. Filed Feb. 8, 1922. Serial No. 535,101. 3 Claims. (Cl. 157—1.)

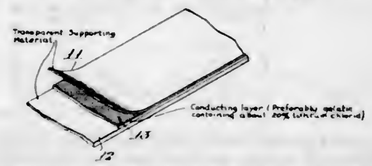
1. A tire changer including a base, standards upstanding from said base, a head secured to the upper ends of said standards, a screw journaled at its lower end in said base and at its upper end in said head, two nuts on said screw, arms pivoted at one end to one of said nuts, rim grips, each arm being pivoted at its other end of one of said

grips, arms pivoted at one end to the other nut and at their other end to said grips respectively, ears on said



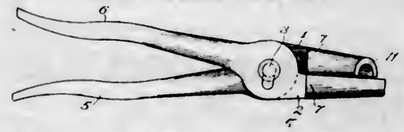
nuts through which said standards extend, and means for engaging the rim at the joint for breaking or setting the joint.

1,471,592. MOTION-PICTURE FILM. CLARENCE J. COBERLY, Los Angeles, Calif. Filed Aug. 13, 1919. Serial No. 317,163. 7 Claims. (Cl. 95—9.)



1. A motion picture film comprising: a supporting strip; a layer of sensitized emulsion; and a transparent layer of high electrical conductivity between said strip and said emulsion.

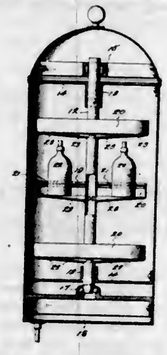
1,471,593. CLAMPING AND SUPPORTING TOOL. ELMER A. DAVIS, Chicago, Ill. Filed May 9, 1921. Serial No. 468,085. 3 Claims. (Cl. 81—3.)



1. In a tool of the class described, the combination of a pair of pivotally connected jaws having opposed inner clamping faces provided with an elongated opening between and extending lengthwise of said jaws and at an oblique angle with respect to the axes of the jaws, and adapted to admit and clamp a flexible cable in said opening between the jaws, one of said jaws having a transverse guiding edge in oblique relation to said elongated opening and adapted to permit a saw to be guided and operated adjacent to and in parallel relation to said oblique guiding edge of said jaw and in cutting engagement with such flexible cable, and the other one of said jaws having a cable-supporting outer end portion projecting endwise of the jaws and beyond the said oblique guiding edge of the opposite jaw and adapted to engage and support said flexible cable in rigid relation to said oblique guiding edge, and a lever for each of said jaws.

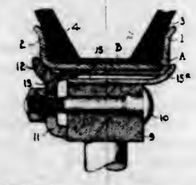
1,471,594. CABINET. THOMAS B. C. EVANS, Hawley, Minn. Filed May 6, 1922. Serial No. 558,995. 1 Claim. (Cl. 211—7.)

A cabinet of the character described comprising a cabinet body, a vertical hollow shaft journalled within the body and arranged centrally thereof, annular supports including a bottom and vertical wall, said supports being mounted upon the shaft in spaced superimposed relation, a shelf arranged in each support and also mounted on said shaft, each shelf having a circumferential series of openings to



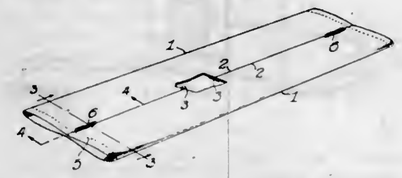
accommodate receptacles as described, the bottom of each support being formed with radially disposed channels, and said hollow shaft having openings therein immediately above each channel of the adjacent support for the purpose specified.

1,471,595. DEMOUNTABLE RIM. EDWIN E. FREDERICK, Winterhaven, Fla. Filed Dec. 27, 1921. Serial No. 525,035. 5 Claims. (Cl. 301—35.)



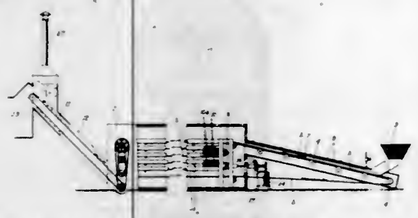
1. A demountable rim comprising two solid ring members telescoping one on the other, each of said members being formed of a flat ring portion with an outstanding flange at one edge, one member resting upon the outer face of the other member and extending the full width of the rim and having a series of holes, one of which is for the valve stem, fastening means having heads filling and seated flush in said holes except the hole for the valve stem, and the other ring member having locking slots to be engaged by said fastening means, and also provided with a series of spaced slots extending inwardly from its free edge along the ring member and spaced from each other as well as the locking slots.

1,471,596. SOFT CUFF. ALBERT A. FOURNIER, Ottawa, Ontario, Canada. Filed Sept. 4, 1923. Serial No. 660,895. 4 Claims. (Cl. 2—79.)



1. A soft cuff the material of which is folded rolled and seamless at opposite edges of the cuff, the material being united between said edges, the cuff being provided with button-holes at the ends, the opposite faces of the cuff being connected together only at points between the folded edges, leaving the latter disconnected adjacent such edges.

1,471,597. ALMOND BLEACHER AND SULPHUR FEEDER. ALBERT M. FOWLER and WILLIAM H. CAULFEILD, Fairoaks, Calif., assignors to California Almond Growers Exchange, San Francisco, Calif., a Corporation of California. Filed Jan. 29, 1921. Serial No. 440,946. 10 Claims. (Cl. 99—2.)

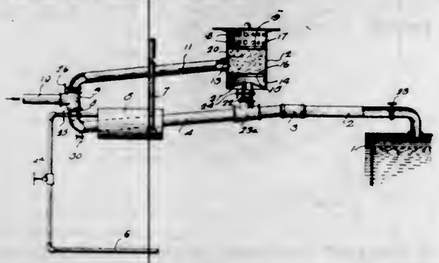


4. A bleaching apparatus comprising an enclosed chamber, a plurality of transversely arranged and vertically spaced rollers at each end of the chamber, an endless belt passing around the rollers in alternate order at each end of the chamber, and means for each belt flight thus formed and adjacent the end of its travel in one direction for deflecting any products thereon to the succeeding flight immediately below and ahead of the rollers and preventing any such products from reaching the rollers.

5. A bleaching apparatus comprising an enclosed chamber adapted to receive bleaching fumes therein, an endless belt extending lengthwise of the chamber in vertically spaced and horizontal flights, the alternate flights being arranged to travel in opposed directions, the uppermost flight of belt being adapted to receive the produce to be bleached thereon, a deflecting member at the rear end of each belt-flight and adapted to brush the produce off the flight and to one side thereof, and aprons at the side of said flights positioned to cause the produce to be deposited upon the succeeding belt-flight below.

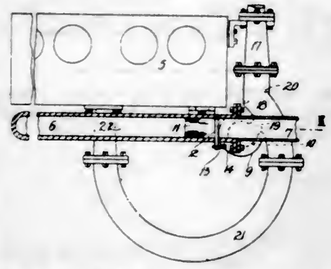
10. An apparatus for bleaching almonds, the same comprising an outer casing providing a bleaching chamber, means for supplying into said chamber bleaching fumes, a series of longitudinally disposed endless conveyors arranged within the bleaching chamber in superposed relation, mechanism for imparting movement to said conveyors, devices for delivering almonds onto the upper run of the uppermost conveyor of the series, devices associated with the discharge end of each run of the conveyors for receiving almonds therefrom, delivering the same onto runs of the conveyors in successively lower planes, and means for receiving the bleached almonds from the lowermost conveyor of the series and delivering the same to the outside of the apparatus.

1,471,598. CHARGE-CONDITION APPARATUS FOR INTERNAL-COMBUSTION ENGINES. WALTER J. GIESE, Power, Mont. Filed July 17, 1918. Serial No. 245,334. 7 Claims. (Cl. 123—25.)



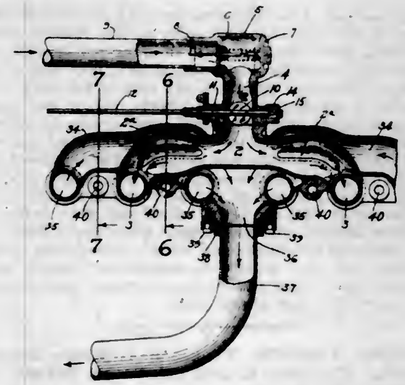
1. The combination with a radiator of an internal combustion engine, of an air filter, an air delivery pipe, a conduit communicating with said delivery pipe and radiator above the liquid level of the latter whereby moistened air may be delivered by the delivery pipe, a second conduit communicating with the filter and said first named conduit whereby filtered air and moistened air will be delivered by the delivery pipe, a third conduit communicating with said filter and delivery pipe whereby air may be drawn direct from the filter without passing through said first named conduit that filtered air may be delivered by the delivery pipe, or that filtered air and filtered moistened air will be delivered, a heater mounted about said first named conduit between the delivery pipe and said second named conduit whereby the filtered air, or moistened air or both mixed may be heated, and means arranged in said conduits whereby the flow of air may be regulated.

1,471,599. CARBURATION OF AIR FOR INTERNAL-COMBUSTION ENGINES. GEORGE HAMILTON-GRAPES, Balwyn, Melbourne, Victoria, Australia. Filed Feb. 9, 1920. Serial No. 357,190. 4 Claims. (Cl. 123—122.)



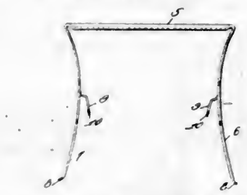
1. A fuel mixture heater comprising means to effect the separation of the heavier particles of a carbureted mixture, means to change the direction of flow of the mixture, a retort at the side of the direction of flow and having a single opening into said direction changing means adjacent the point of deviation thereof, means adjacent the engine exhaust manifold to heat said retort by exhaust gases, a by-pass for said gases, a thermostatically controlled valve to control said gases either to the heating means or directly to the atmosphere and a deflector to direct the heavier particles into said retort.

1,471,600. METHOD OF AND MEANS FOR VAPORIZING HYDROCARBON FUELS. RALPH B. HARTSOUGH, Minneapolis, Minn. Filed May 28, 1923. Serial No. 642,007. 18 Claims. (Cl. 123—122.)



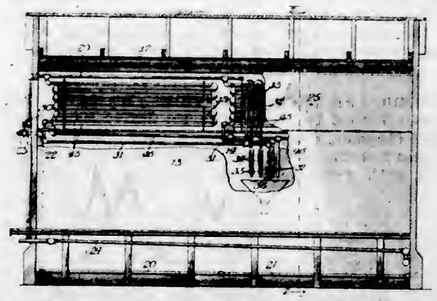
1. The method of vaporizing fuel oils for operating internal combustion engines, which consists in causing a column of air to move lengthwise through a vaporizing chamber always in one direction by means of a suction produced by the engine cylinders and simultaneously feeding a supply of fuel oil into the vaporizing chamber from one side thereof and between the main body of the air column and the interior wall of said chamber, thus causing the liquid fuel to be distributed in a thin film or sheet over the interior surface of said chamber from which it is taken up in the form of vapor by the passing air column.

1,471,601. MILK-CAN PUNCH. LEROY HASTY, San Diego, Calif. Filed June 16, 1922. Serial No. 568,754. 3 Claims. (Cl. 164—119.)



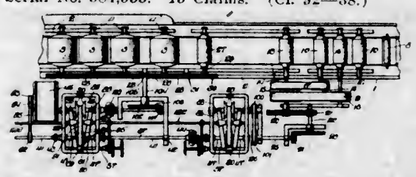
1. A punching implement comprising a handle portion, arms formed integral with the handle portion, punching elements extending inwardly and downwardly from the arms and said punching elements having tapered end portions.

1,471,602. DRY KILN. JOSEPH F. HANRAHAN, Chicago, Ill. Filed Dec. 16, 1918. Serial No. 266,928. 5 Claims. (Cl. 34—3.)



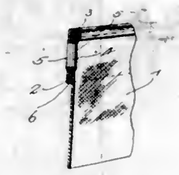
3. In a dry kiln the combination of a drying chamber, a condensing chamber having condensing means therein, heating means and a humidifier, the humidifier arranged between the condensing and heating means, all cooperatively arranged to cause a circulation of air currents from the drying chamber to the condensing chamber, and said humidifier having means for regulating the same.

1,471,603. SPEED-CHANGING POWER-TRANSMISSION MECHANISM FOR PAPER-MAKING MACHINES AND OTHER SIMILAR MACHINES. FRANK A. HEADSON, Milwaukee, Wis. Filed Aug. 26, 1922. Serial No. 584,535. 13 Claims. (Cl. 92—38.)



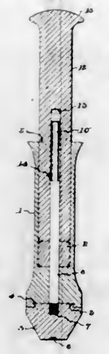
1. In a machine of the class described, the combination of a plurality of individual variable speed belt and pulley power transmission mechanisms adapted to be adjusted to operate at varying speeds with respect to each other, means for operatively connecting each of said individual variable speed power transmission mechanisms with a mechanism to be operated, and means for adjusting a plurality of said individual variable speed power transmission mechanisms simultaneously, to regulate the speed of operation of the same.

1,471,604. WAISTBAND BUTTONHOLE STRIP. ISAAK HELLER, Brooklyn, N. Y. Filed June 29, 1922. Serial No. 571,743. 2 Claims. (Cl. 2—142.)



1. A button hole strip comprising outer strips and an intermediate strip between said outer strips, one of said outer strips being extended above the upper edges of the second outer strip and intermediate strip and folded down upon the outer face of the second outer strip and secured by stitching passing through all of said strips, one of said strips being formed of fabric softer than one of the remaining strips but not as soft as the other of the said remaining strips, said strips having button holes formed therethrough and extending from a point adjacent the joined upper edge portions thereof to a point in spaced relation to the lower edge of the intermediate strip.

1,471,605. RIVETING TOOL. TONY HOFF, LANDON CARROLL SHELTON, and ALEXANDER MACMILLAN, Butte, Mont. Filed Apr. 14, 1922. Serial No. 552,647. 1 Claim. (Cl. 78—53.5.)

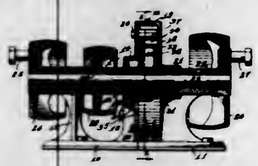


A tool of the class described comprising a body, a riveting head detachably connected therewith, a block movably mounted in the body, a handle slidably connected with the body and engaging the block and a rod having screw threaded connection with the head and passing through the body and upon which the block and handle are placed.

1,471,606. COMBINATION PUMP JACK AND SPEED-REDUCING MECHANISM. CHARLES HOLMDAHL, Kellogg, Iowa. Filed Feb. 8, 1922. Serial No. 534,939. 1 Claim. (Cl. 74—35.)

An annular internal gear member designed to form a support, the said annular member being provided with a disk portion at one end, the said disk portion being provided with a central and laterally extending hub member, the inner end of said hub member being recessed, a shaft

rotatively mounted in said hub, a gear member within the said annular member and concentric therewith, said gear member being provided with a hub secured to said shaft and mounted within the recess of the first said hub, a sleeve rotatively mounted on said shaft, the inner end of said sleeve being adjacent to the hub of the second said gear and provided with an eccentric, a bearing member rotatively mounted on said eccentric and provided with a disk portion perpendicular thereto, the outer edge of said disk being provided with an annular internal and



external gear member, the external gear member being designed to coact with the first said internal gear member while the internal gear member of the last said gear member is designed to coact with the gear of the second said gear member, a disk plate detachably secured to the open end of the first said annular gear member to form a closure for all of said gear members and provided at its central portion with a hub to rotatively receive the said sleeve, and means for driving the outer end of said sleeve, the last said disk being designed to lie adjacent to the disk of said eccentric bearing.

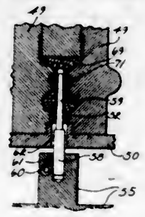
1,471,607. WELL TOOL. JOHN W. HOOSER, Dallas, Tex. Filed Dec. 31, 1921. Serial No. 526,375. 2 Claims. (Cl. 294—86.)



1. In a well tool, a shank having a threaded upper end and having a lower end of attenuated concavo-convex cross-section and a substantially U-shaped gripping member rigidly secured to the lower end of the shank at a point along one side of said U-shaped member, said shank having a water channel extending through the upper end thereof and through the concave side of the shank so as to feed water to said concave side.

1,471,608. PRESS. CLIFTON W. IRWIN, Los Angeles, and NICHOLAS V. D. BROCK, Santa Ana, Calif.; said Irwin assignor to said Brock. Filed Feb. 13, 1922. Serial No. 536,039. 2 Claims. (Cl. 49—37.)

1. In a press, a mold having a molding cavity and having a perforation communicating with the cavity through the bottom of the cavity, a pin in alignment with the perforation, means to produce relative movement between the pin and mold sections to cause the pin to project



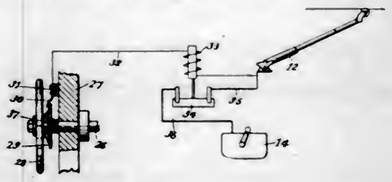
into the cavity, and means adjacent the pin to direct a cooling jet upon the pin during the relative motion between the pin and mold.

1,471,609. FASTENER FOR WINDOW SCREENS. EMIL JORGENSEN, Des Moines, Iowa. Filed May 9, 1921. Serial No. 468,026. 2 Claims. (Cl. 292—304.)



1. A window fastener member comprising a plate having two opposite edges, screw openings near one of said edges, a laterally extending flange near the opposite edge, said flange being provided with a slot adjacent to said plate and of a width slightly greater than the thickness of the plate, a screw for each of said openings, and a hook member pivotally mounted on one of said screws.

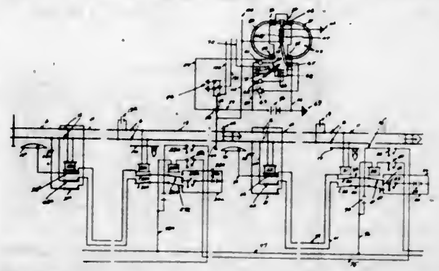
1,471,610. PROTECTIVE DEVICE. JOSEPH F. JOY, Belle Vernon, Pa., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Nov. 21, 1916, Serial No. 132,709. Renewed June 13, 1922. Serial No. 568,078. 8 Claims. (Cl. 192—2.)



3. The combination of the wheels, the motor, the motor circuit, devices for opening the circuit, the manually actuated rotatable and longitudinally movable shaft, means actuated by the rotary movement of the shaft to move the shoes against the wheels, said means being adapted to transmit the reactionary force from the shoes when pressing against the wheels and thereby actuating the said devices which open the circuit.

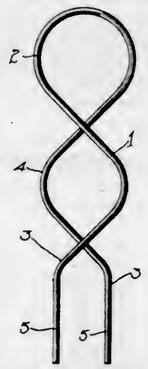
1,471,611. AUTOMATIC TRAIN-STOP AND SPEED-CONTROL DEVICE. WALTER H. KELLEM, Cecilia, Ky. Filed Sept. 17, 1920. Serial No. 410,823. 19 Claims. (Cl. 246—49.)

2. In a train control system, the combination of a railroad track, a vehicle thereon, ramps located at intervals along the track, an electric circuit carried partly on the vehicle and partly on the track and adapted to be completed when the vehicle is passing one of said ramps, the partial circuits on the track being controlled by traffic conditions, a normally closed circuit on the vehicle adapted to be momentarily broken when the vehicle is passing one of said ramps, and a polarized relay having a field energized by said normally closed circuit and having an armature with a winding energized by the partial circuit on the vehicle, said armature being movable to three differ-



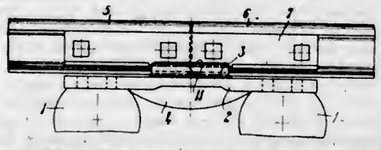
ent positions in response, respectively, to absence of current in said partial circuit, current in one direction and current in the opposite direction.

1,471,612. HAIRPIN. FRANK VINCENT KOSATKA and EDWARD STEPKAL, Cicero, Ill. Filed June 17, 1922. Serial No. 569,009. 1 Claim. (Cl. 132—50.)



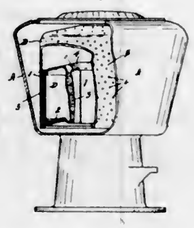
A hair pin comprising a wire bent back upon itself to provide hair engaging members, each member being provided with undulations or corrugations throughout a part of its length and being provided with a straight portion adjacent to its end, the undulations of one member lying in one plane, the planes of each member being spaced from each other, thereby permitting hair to be received between said members, the hair lying in a plane parallel to the planes of said members, the undulations of both members co-operating to form hair receiving loops, the hair when received in the loops extending at right angles to the planes of said members, one of the hair receiving loops being the closed end of the hair pin.

1,471,613. RAIL JOINT. PER ANDERSSON KOURTZMAN, Vartan, near Stockholm, Sweden. Filed May 10, 1923. Serial No. 638,145. 1 Claim. (Cl. 238—203.)



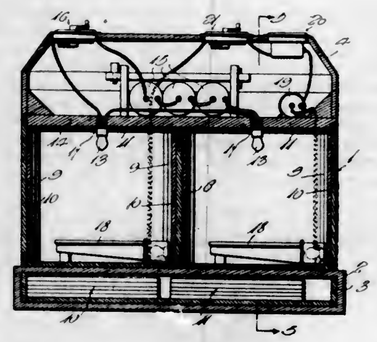
In a rail-joint, the combination with the rails of a base plate having at its middle a raised portion supporting the abutting ends of the rails, fish plates and screw bolts securing the rail ends to each other, the base plate being formed at the outer side with a hook shaped projection engaging the outer edge of the rail flanges and at the inner side with another hook shaped projection, and wedges between the latter and the fish plate on the inner side of the rails, substantially as and for the purpose set forth.

1,471,614. LIQUID CLARIFIER. EMERY E. LA DUKE, Salt Lake City, Utah. Filed Apr. 27, 1921, Serial No. 464,928. Renewed Aug. 13, 1923. 4 Claims. (Cl. 233—2.)



1. A liquid clarifier comprising a casing within which is operated a perforated basket; a tight fitting band within said basket and contiguous its inner wall; and a flexible filter basket adapted to fit within said band having an impervious bottom and side wall and a foraminous top.

1,471,615. DEVICE FOR DEMONSTRATING LIGHTING EFFECTS. WILLIAM H. LEFFINGWELL, Newark, N. J. Filed Dec. 27, 1921. Serial No. 525,207. 5 Claims. (Cl. 35—16.)

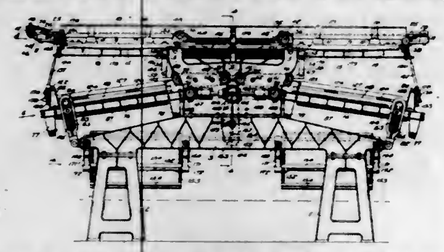


1. A demonstrator for lighting effects comprising a housing whose interior constitutes a miniature room, said housing having a peep-hole through which the room may be viewed, removable wall elements providing changeable interior decorations for said room, and means for illuminating said room.

1,471,616. CORN-HUSKING MACHINE. WILLIAM HAMMOND LEISTER, Westminster, Md., assignor to The United Machinery Company, Westminster, Md., a Corporation of Maryland. Filed July 18, 1918. Serial No. 245,500. 27 Claims. (Cl. 130—5.)

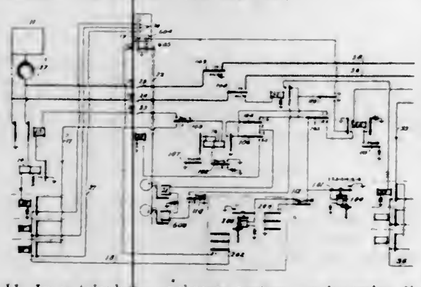
1. A corn husking machine comprising a plurality of husking units, a plurality of ear alining pockets from which the ears are fed to the respective husking units in

endwise position, feeding mechanism adapted to receive unalined ears for advancing the ears to and depositing



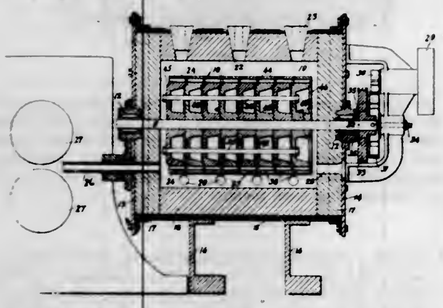
them in said pockets, and movable means for freely distributing the ears transversely over the feeding mechanism.

1,471,617. TELEPHONE-EXCHANGE SYSTEM. ALBEN E. LUNDELL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 8, 1917. Serial No. 190,378. 14 Claims. (Cl. 179—18.)



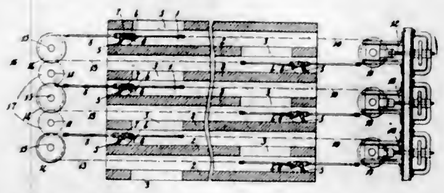
11. In a telephone exchange system, an incoming line, an outgoing line, an automatic switch for interconnecting said lines, a sending device, means to operate said sending device, means to selectively control said switch during a portion of the operation of said sending device, a relay, release circuits effective upon the operation of said relay at certain times to cause the immediate restoration of said switch and said sending device, and means effective upon the operation of said relay at other times to delay the release of said switch and said sending device until after the complete operation of said sending device.

1,471,618. FURNACE. ADOLPH W. MACHLET, Elizabeth, N. J. Filed Dec. 20, 1920. Serial No. 431,918. 35 Claims. (Cl. 263—32.)



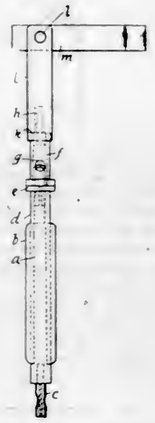
1. The combination with a furnace, of a multiple-chambered muffle therein mounted for rotation, and power-driven means for effecting automatic step-by-step rotation of said muffle.

1,471,619. APPARATUS FOR USE IN THE TREATMENT OF PULVERULENT OR GRANULAR MATERIALS WITH GASES. RICHARD MARTIN, Swansea, and JOHN ISAAC RICHARDS, Ystalyfera, near Swansea, Wales. Filed Feb. 26, 1921. Serial No. 448,221. 4 Claims. (Cl. 263—23.)



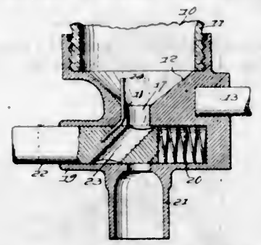
1. Improved means for conveying granular or pulverulent material through a chamber as, for instance, a roasting furnace, in which the material is subjected to the action of a gas current, and for exposing fresh surfaces of the material therein to the action of the heated gases, comprising a member provided with a scraper element and a plurality of plough elements, means whereby said member is caused to travel alternately in a backward and forward direction through the chamber and means whereby motion in the one direction causes the scraper element to be brought into position to operate on the material on the floor of said chamber and convey material therethrough and motion in the other direction removes the scraper element from the said position and brings the plough elements into position to operate on the material on the floor of the chamber in order to expose fresh surfaces of the material, to the action of the current of gas.

1,471,620. COMBINED BLOWPIPE AND SOLDERING IRON. AMÉDÉE MARQUIS, London, England. Filed May 26, 1921. Serial No. 472,893. 1 Claim. (Cl. 158—26.)



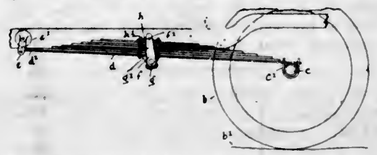
In a combined blow pipe and soldering iron, a gas tube having a shouldered contracted rear end, an inner enlarged portion to form expansion chamber and an internally screw-threaded contracted forward end, a handle covering the expansion chamber, a flanged nipple screwed into said forward end, a laterally perforated nozzle secured on the nipple and forming supplementary air and gas mixing chamber, a straight burner tube screwed into the outer end of and leaving an annular seat on said nozzle, an U-shaped holding member, having a cut-out seating portion, carried on the seat of said nozzle, a nut on said burner tube to lock the holding member, and a copper-bit carried on a cross-bolt fast in the prongs of said holding member.

1,471,621. SOAP-DISPENSING DEVICE. ARTHUR W. MCCORD, Washington, D. C. Filed Feb. 18, 1922. Serial No. 537,544. 2 Claims. (Cl. 221—105.)



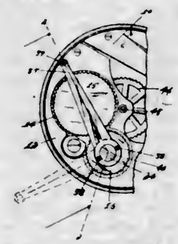
1. A dispensing device of the character described comprising a receptacle having a vertically extending discharge passage intersected by a valve casing, a reciprocable valve therein, a spring urging the valve outward, and a pin carried by the valve and extending upward through the discharge passage into the receptacle, the discharge passage and the opening in the receptacle being approximately ovoid, with the small end of the passage directed forward whereby the pin may have free movement in a plurality of directions upon a reciprocation and oscillation of the valve but the valve will be centered when released.

1,471,622. MOTOR-CAR-SPRING MECHANISM. NORMAN SINCLAIR MCNAB, Melbourne, Victoria, Australia, assignor to Thomas Lee Courtney and Hugh Keith, Junior, Wychitella, Victoria, Australia. Filed Sept. 22, 1920. Serial No. 412,020. 3 Claims. (Cl. 267—19.)



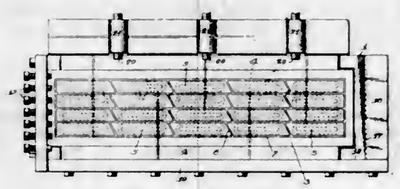
1. The combination with a chassis frame, of an axle, leaf springs arranged at the sides of the frame and to which springs the axle is connected, pivoted connections between the springs and frame to allow forward or rearward as well as upward or downward movement of the frame relatively to the axle, a rock shaft carried by the frame, said springs having a fulcrumed connection adjacent their center with said rock shaft so as to be moved by the latter, as described, and cushioning springs arranged upon opposite sides of the rock shaft and having a fixed connection at one end with said shaft, and a pressure member carried by the frame, upon opposite sides of which pressure member the other end of the springs bear.

1,471,623. WATCH MECHANISM. GEORGE P. MOHR, Victor, Iowa. Filed Nov. 28, 1922. Serial No. 603,759. 3 Claims. (Cl. 58—86.)



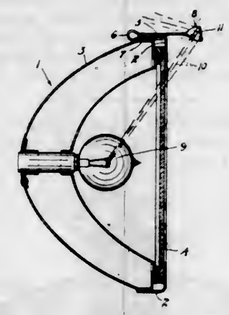
1. A watch comprising a frame, front and back plates spaced apart and parallel to each other, a shaft rotatively mounted in said plates, a spring barrel mounted to rotate about the axial center of said shaft, a watch mechanism, means for driving the watch mechanism by the rotation of said barrel, a spring within said barrel having one end connected thereto, means for detachably connecting said spring in operative relation with said shaft, a winding mechanism detachably secured to said shaft, said shaft being capable of longitudinal movement to disconnect it from the mechanism operatively connected therewith, the said shaft also being adapted to support the spring barrel between said plates, and further so arranged that the barrel may be slidably removed from between the said plate when the shaft has been moved.

1,471,624. MAGNETIC CHUCK. HENRY E. MORTON, Muskegon, Mich. Filed Oct. 14, 1921. Serial No. 507,620. 5 Claims. (Cl. 90—59.)



1. In a magnetic chuck, the combination of a plurality of electro-magnets, and a plurality of pole pieces, one for each magnet, and together forming the work engaging surface of the chuck, said pieces being arranged in spaced relation to form an insulating gap surrounding all of said pieces with portions of the gap extending longitudinally of the face and transverse portions connecting the longitudinal portions, said connecting portions extending in a direction other than at right angles to the longitudinal portions.

1,471,625. INDICATOR AND SIGNAL. HARRY L. OPSAHL, Minneapolis, Minn. Filed Oct. 18, 1920. Serial No. 417,735. 4 Claims. (Cl. 240—46.)

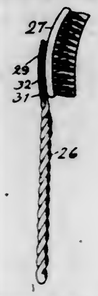


4. In combination with the lens retaining ring of a headlight casing, a bracket arm attached to the casing by a part clamped under the ring, and a reflector arranged on said arm to intercept laterally passing rays so as to reflect light from the headlight toward the driver's seat, without obstructing directly forward passage of light from the headlight.

1,471,626. TOOTHBRUSH. ANNA M. PACHMAYR, Los Angeles, Calif. Filed Dec. 23, 1921. Serial No. 524,462. 2 Claims. (Cl. 15—172.)

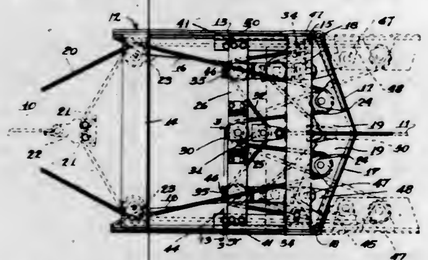
1. A brush embodying a bristle-supporting plate and bristles thereon, an angular boss on the back of the

plate and integral therewith, a stud mounted on the boss, a beveled and circular head on the stud, a handle,



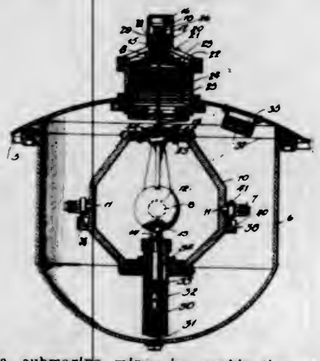
and flattened and spring ends on the handle, engaging respectively, with the angular boss and with the beveled head on the stud.

1,471,627. SCRAPER. GLENN W. PACKER, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 2, 1922. Serial No. 598,480. 3 Claims. (Cl. 37—136.)



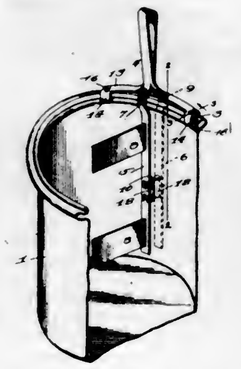
1. A scraper having side walls, two end portions each pivotally connected with one of said walls to swing laterally, guide devices on said end portions, and draft means for reciprocably moving said scraper including a continuous draft member trained about both of said guide devices and cooperating with other guide devices on said scraper to afford substantially equal tensions to both of said end portions tending to actuate the same.

1,471,628. SUBMARINE MINE. WAYNE F. PALMER, Washington, D. C. Filed May 13, 1920. Serial No. 381,287. 10 Claims. (Cl. 102—3.)



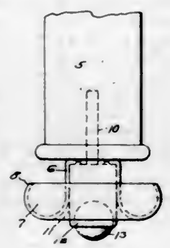
2. In a submarine mine, in combination, a casing filled with a dampening fluid, a pendulum mounted therein, a locking means engaging said pendulum adapted to hold the same in safety position while the dampening fluid is under pressure and means for relieving the pressure of the dampening fluid after the mine has been launched.

1,471,629. DOUGH MIXER. IRENE A. PARRY, Seattle, Wash. Filed Apr. 2, 1923. Serial No. 629,418. 4 Claims. (Cl. 259—134.)



1. In a dough mixer, the combination of a container having a track at its upper end, a handle having legs adapted to be sprung over the upper edge of the container, anti-friction rollers carried by the handle and adapted to engage the track and the inner and outer surfaces of the wall of the container, and paddles extending inwardly from the handle.

1,471,630. INSECT GUARD. ANTONIO PARRELLA, Washington, D. C. Filed Nov. 10, 1921. Serial No. 514,361. 1 Claim. (Cl. 43—109.)



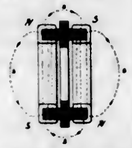
In an insect guard for the legs of articles of furniture, the combination with an element of stamped sheet metal comprising a cup shape portion for holding an insecticide and a centrally disposed portion of inverted cup shape with an opening in its top, said inverted cup shaped portion extending substantially above the upper edge of the first named cup shaped portion, of a caster comprising a rotative ball and a cylindrical body portion within which said ball is housed and rotates, the external surface of the cylindrical body portion corresponding both as to size and shape to the internal surface of the inverted cup shaped portion throughout the height of the latter, said body portion of the caster being completely housed within said inverted cup shaped portion and held tightly therein by frictional engagement with the inner wall of the said inverted cup shaped portion, said caster comprising a stem which passes through the opening in the top of the inverted cup shaped portion.

1,471,631. ELECTRIC SWITCH. MARTIN AUGUST PERSSON, Malmo, Sweden. Filed June 2, 1922. Serial No. 565,300. 4 Claims. (Cl. 200—63.)



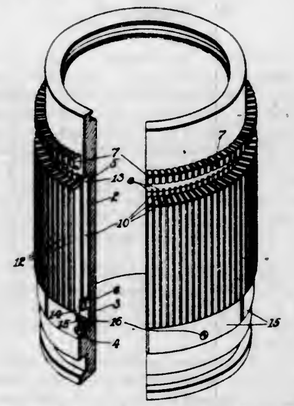
1. An electric switch comprising a circular insulating member provided with peripheral shoulders and contact members, an inner ring provided in the usual manner with spring rubbing contacts resting upon the circumference of the insulating member and coacting with the contact members fixed thereto, said inner ring concentrically and rotatably arranged around the insulating member, an outer ring concentrically and rotatably arranged around the inner ring and a resilient carrier device fixed to the latter and coacting with the outer ring in such a manner that when turning the outer ring in a certain direction the inner ring is carried along with the same.

1,471,632. SELF-INDUCTION COIL FOR LOADING TELEPHONE CABLES. EUGEN SCHÜRER, Cologne-Mulheim, Germany. Filed Apr. 28, 1921. Serial No. 465,250. 6 Claims. (Cl. 178—46.)



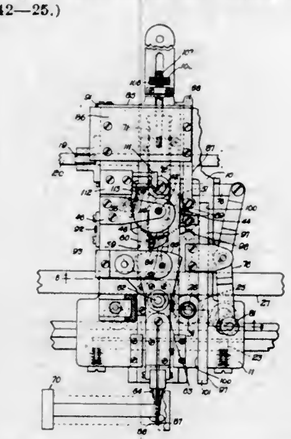
1. The combination with a four-wire telephone cable, of a self-induction coil couple for loading said cable, comprising an annular disk, a pair of coils disposed one at each side of said disk, one coil having its poles in juxtaposition respectively to the poles of opposite sign of the other coil, and bridge pieces magnetically connecting the cores of the coils at the poles with said disk.

1,471,633. NEEDLE CYLINDER. ALBERT E. STEWART, Franklin, N. H., assignor to Acme Knitting Machine & Needle Company, Franklin, N. H., a Corporation of New Hampshire. Filed Apr. 24, 1919. Serial No. 292,288. 9 Claims. (Cl. 66—21.)



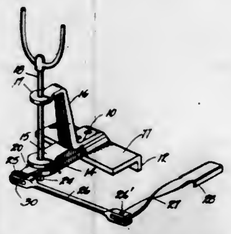
1. A needle cylinder for a circular knitting machine comprising a cylinder body, a series of parts each forming the bottom of a needle race, another series of parts forming the sides of the needle races, each of the latter parts having needle guiding surfaces on opposite sides thereof, and means for removably securing said parts to said body.

1,471,634. SEMIAUTOMATIC WINDING MACHINE. SIGURD THRONSEN and JOHN WILLIAM SAGER, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 5, 1921. Serial No. 489,954. 14 Claims. (Cl. 242—25.)



1. In a winding machine, the combination of a rotatable spindle, a wire guiding means, means for moving said means longitudinally of said spindle, and mechanically actuated mechanism actuated by the longitudinal movement of said guiding means for successively retracting said guiding means from the spindle a predetermined amount.

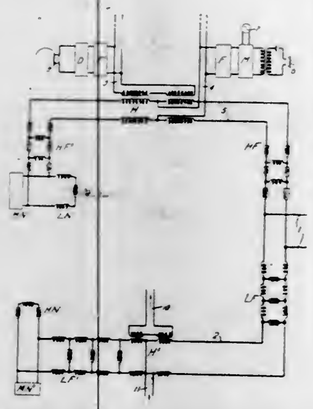
1,471,635. DIRIGIBLE HEADLIGHT. WILLIAM V. VAN ETTEN, Everett, Wash. Filed June 24, 1922, Serial No. 570,524. Renewed July 16, 1923. 1 Claim. (Cl. 240—62.)



The combination with a vehicle having a front axle and a steering wheel supporting knuckle mounted at the end of the axle, provided with a steering arm extending rearwardly therefrom, of a dirigible headlight mechanism comprising a bracket having a base plate overlying the axle and provided with a down turned flange along its inner edge engageable with the edge of the axle, U-bolts enclosing the axle and ends of the base plate to retain the bracket in fixed position, an arm fixed centrally of the base plate and extending forwardly therefrom and provided with a forward end opening, an arm extending upwardly and forwardly from the base plate in vertical alinement with the first named arm, said arms having vertically alined openings in their forward ends, a headlight supporting shaft rotatably mounted in said openings, a lever having its inner end fitted within the forward opening of the first

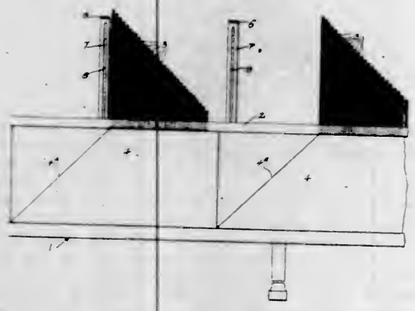
named arm and fixed to the lamp supporting shaft, a lever fixed to the steering knuckle arm and extending forwardly of the axle, and a link pivotally connecting the said lever with the shaft rotating lever.

1,471,636. ARTIFICIAL LINE. HARALD J. VENNES, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 24, 1920. Serial No. 405,640. 9 Claims. (Cl. 178—44.)



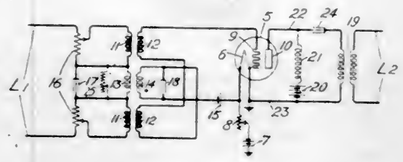
9. In a system for transmitting currents of different frequencies comprising as an element a multi-section filter for transmitting currents of a limited range of said frequencies, a network for matching the impedance characteristics of said system for currents of frequencies outside the range of frequencies transmitted by said filter, said network containing as an element for matching the impedance of said filter a circuit substantially equivalent to the end-section of said filter, electrically the more adjacent to said network.

1,471,637. ABBREVIATING MACHINE. AKOS WELTNER, Youngstown, Ohio. Filed Oct. 30, 1920. Serial No. 420,791. Renewed Jan. 20, 1923. 9 Claims. (Cl. 35—13.)



1. In an apparatus of the character described, a plurality of independently adjustable letter bars, and adjustable means for positively limiting movement of said bars individually beyond a predetermined distance in one direction.

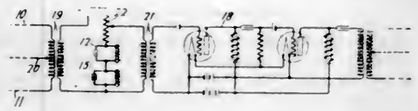
1,471,638. TELEPHONE SYSTEM. DONALD F. WHITING, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 28, 1918. Serial No. 268,757. 36 Claims. (Cl. 179—171.)



1. In a telephone system, in combination, two line sections, an amplifier for amplifying both talking and signaling currents and having its output side connected with one line section, separate talking and signaling current transformers connecting the input side of the amplifier with the other line section, and a condenser in shunt to the primary of said signaling current transformer, said condenser, with said primary, forming a circuit tuned to the frequency of the signaling current.

36. In combination, a line shunted by two paths, one path comprising the primary winding of a transformer, the other path comprising a resistance, and a tuned circuit common to both of said paths and presenting a high impedance to currents of a particular frequency.

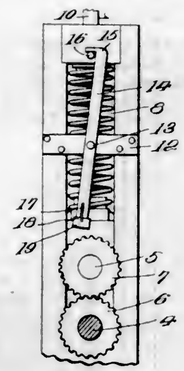
1,471,639. TELEPHONE SYSTEM. DONALD F. WHITING, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 22, 1919. Serial No. 312,641. 10 Claims. (Cl. 178—44.)



1. In combination, a telephone circuit, and a shunt path, the impedance of a portion of which is relatively high for one range of frequencies to be transmitted and relatively low for another range of frequencies to be transmitted, the impedance of another portion of said shunt path for a particular group of frequencies within said second mentioned range being very high as compared with its impedance for other frequencies to be transmitted, said two portions being in series with each other.

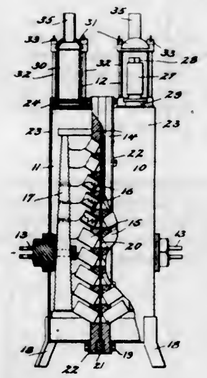
1,471,640. PRESSURE RELEASE FOR CLOTHES WRINGERS. REA P. WRIGHT, Washington, D. C., assignor to John Francis Hemenway, New York, N. Y. Filed Apr. 16, 1918. Serial No. 228,881. 2 Claims. (Cl. 68—32.)

1. A clothes wringer, comprising a frame having pressure rolls and pressure means for said rolls mounted therein, a top bar movably mounted in said frame having means for adjusting said pressure means, gears carried by said pressure rolls, and levers mounted on the side bars of said frame for holding said top bar in predetermined position within said frame, said levers being engaged by the gears of the movable pressure roll on



the abnormal separation of said rolls for causing said levers to be oscillated by the rotation of said gears for releasing said top bar.

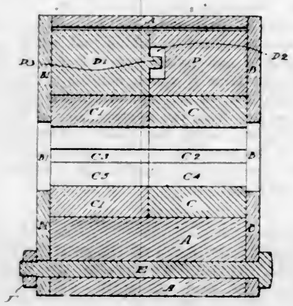
1,471,641. ELECTROLYTIC GAS CELL. CLARENCE F. ADAMS, Dayton, Ohio. Filed Mar. 9, 1922. Serial No. 542,348. 9 Claims. (Cl. 204—5.)



1. In an electrolytic cell for the manufacture of gases, the combination with a casing consisting of two parts detachably secured together, of an electrode element in each of said parts, and a diaphragm permeable to the electrolyte mounted between the two parts of said casing.

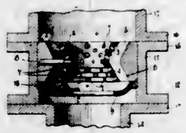
1,471,642. DIFFERENTIAL. CIPRIANO ANDRADE, Jr., New York, N. Y. Filed Aug. 25, 1922. Serial No. 584,346. 7 Claims. (Cl. 74—7.)

1. In a differential; a driving member with a recess in its surface, said recess having each of its sides lower than its central portion; a first and a second driven member with surfaces containing no recesses, a first locking roller between the said surface of the first driven member and one end of the recess in the driving member, and adapted to lock or unlock its said adjacent members either in a forward or reverse direction; a second locking roller between the said surface of the second driven member and the other end of the recess in the driving member, and adapted to lock or unlock its said adjacent members either in a forward or reverse direction; and means integral with said first and second locking rollers,



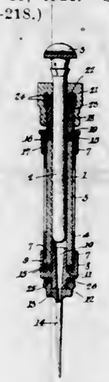
whereby said first locking rollers may move to a limited extent in relation to said locking roller circumferentially with reference to said driven members.

1,471,643. MIXER. FREDERIC J. BALL, Brooklyn, N. Y. Filed Apr. 18, 1922. Serial No. 555,166. 15 Claims. (Cl. 48—180.)



1. A mixer comprising inner and outer tubular members, the inner tubular member having upwardly and downwardly flaring inner and outer wall surfaces and the outer tubular member having upwardly and downwardly flaring inner wall surfaces spaced from the corresponding outer wall surfaces of the inner member.

1,471,644. SYRINGE. ALBERT BANDMAN, New York, N. Y. Filed Mar. 19, 1921. Serial No. 453,563. 5 Claims. (Cl. 128—218.)



1. In a syringe, an outer shell, an inner medicament barrel having its opposite ends protruding beyond the ends of the shell, closure caps applied to opposite ends of the shell, substantially leak-proof soft washers contained within the caps and having the ends of the barrel embedded therein with the washers under compression to distend the washers laterally, and a piston within the barrel.

1,471,645. AGGLOMERATING OR CEMENTING GRANULAR MATERIALS. THOMAS M. CHANCE, Philadelphia, Pa. Filed Sept. 27, 1920. Serial No. 413,194. 3 Claims. (Cl. 44—15.)

1. A process of agglomerating non-coking material to form a product cemented by coking coal, which consists in mixing a mass of non-coking material of a definite grade, the coarsest particles of which non-coking material comprise not more than 40 per cent of the final mixture, with a mass of coking coal, the average size of the particles of said coking coal being materially smaller than the average size of the particles of non-coking material, and in heating the mixture to a temperature sufficient to coke the said coking coal.

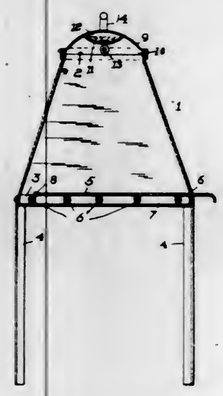
1,471,646. AGGLOMERATING OR CEMENTING GRANULAR MATERIALS. THOMAS M. CHANCE, Philadelphia, Pa. Filed Sept. 27, 1920. Serial No. 413,196. 3 Claims. (Cl. 44—15.)

1. A process of agglomerating non-coking material which includes the steps of mixing two grades of non-coking material with a coking bituminous binder in the proportion of not more than 25% of coarse non-coking material, not less than 50% of fine non-coking material, and the remainder coking bituminous binder.

1,471,647. COMPOSITION OF MATTER PRODUCED BY AGGLOMERATING OR CEMENTING GRANULAR MATERIALS. THOMAS M. CHANCE, Philadelphia, Pa. Original application filed Sept. 27, 1920, Serial No. 413,194. Divided and this application filed June 2, 1921. Serial No. 474,470. 3 Claims. (Cl. 44—1.)

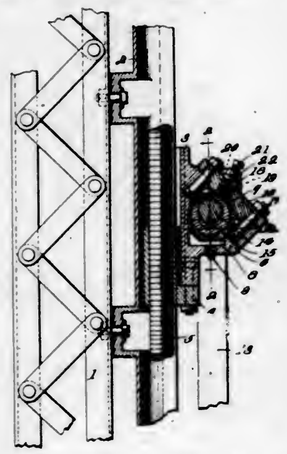
1. A composition of matter consisting of non-coking material cemented together by the coked residue of coking coal, the average size of the particles of said coking coal being materially smaller than the average size of the particles of non-coking material.

1,471,648. SANITARY GARBAGE RECEPTACLE. ANCHEL COHEN, Pittsburgh, Pa. Filed Apr. 6, 1922. Serial No. 550,149. 3 Claims. (Cl. 220—41.)



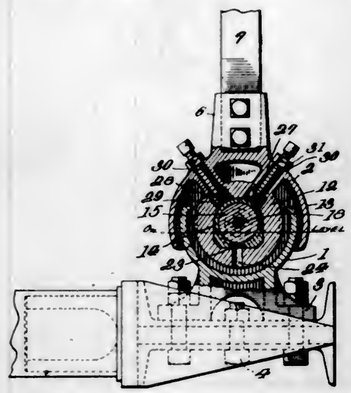
1. A garbage receptacle comprising a collector comprising a body portion gradually increasing in size from its upper towards its lower end and terminating at its top in a perpendicular rectangular rim and merging at its bottom directly into a perpendicular rectangular base rim, said rim having its front formed with a lengthwise extending slot, sets of substantially narrow rollers arranged within and suspended from opposed sides of the base, a shiftable bottom for said collector, said bottom mounted on said rollers and shiftable outwardly through said slot, and a cover removably seated on and overlapping said rim.

1,471,649. SWAY-BAR BEARING FOR GANG SAWS. LESLIE CRANE, Rutland, Vt., assignor of one-half to F. R. Patch Manufacturing Company, Rutland, Vt., a Corporation of Vermont. Filed May 10, 1922. Serial No. 559,922. 7 Claims. (Cl. 125—16.)



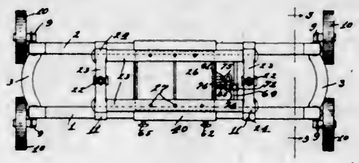
1. A sway bar bearing for gang saws comprising a chamber having an irregular shaped bushing mounted therein provided with an oil pocket, a sway bar having an eccentric sleeve mounted in said bushing, a cover for said chamber and adjusting bolts mounted in said cover adapted to engage said bushing.

1,471,650. SUSPENSION JACK FOR GANG SAWS. LESLIE CRANE, Rutland, Vt., assignor of one-half to F. R. Patch Manufacturing Company, Rutland, Vt., a Corporation of Vermont. Filed May 10, 1922. Serial No. 559,923. 9 Claims. (Cl. 125—16.)



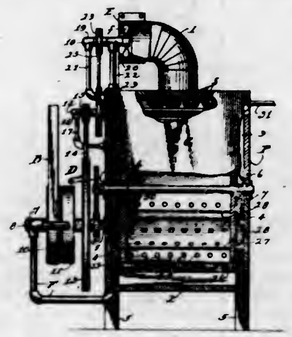
7. A suspension jack for gang saws comprising a fixed section and a swinging section pivotally connected together, said fixed section being provided with an oil chamber and a suspension pin for connecting said sections having means for securing said pin to said fixed section.

1,471,651. MOLDING MACHINE. WILLIAM H. DE VANEY, Toledo, Ohio. Filed Jan. 10, 1921. Serial No. 436,023. 4 Claims. (Cl. 22—45.)



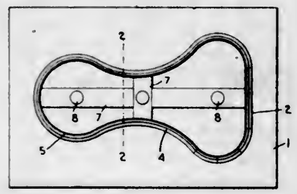
1. A molding machine comprising a portable frame, wheels adjustably mounted thereon, a flask supporting mechanism movably mounted thereon, and a head plate supported on said frame for co-action with said flask supporting mechanism.

1,471,652. GLOVE-DRYING MACHINE. GEORGE W. DU NAH, Pasadena, Calif. Filed Aug. 19, 1920. Serial No. 404,632. 3 Claims. (Cl. 34—5.)



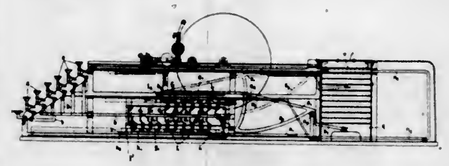
2. A glove drying machine comprising a cabinet, a tumbler located in the cabinet, having a door at the lower part and a removable panel at the upper part, means for rotating the tumbler consisting of a driving shaft on which the tumbler is mounted, a counter-shaft, fixed and loose pulleys on the countershaft, gearing connecting the countershaft with the driving-shaft, a forced draft air-inlet communicating with the upper part of the interior of the cabinet and a heating coil located within the cabinet between the forced draft air-inlet and the tumbler.

1,471,653. CUTTING DIE. WILLIAM H. J. FITZGERALD, Braintree, Mass. Filed Sept. 8, 1920. Serial No. 408,992. 6 Claims. (Cl. 164—29.)



1. A cutting die comprising a body having a wall conforming to the pattern of the article to be cut and a blade fitting and secured to said wall presenting a cutting edge projecting beyond the end of said wall, the adjacent ends of said sections being disposed in angular relation to its cutting edge, and the end forming an oblique angle with the edge of the blade being sharpened to provide a shearing edge adapted to sever any material which passes between the adjacent ends of the cutting edge in conformity to the contour of the pattern.

1,471,654. WRITING MACHINE. HANS GRAF, Laupen-Berne, Switzerland, assignor to Polygraphische Gesellschaft, Laupen-Berne, Switzerland, a Firm. Filed Nov. 16, 1922. Serial No. 601,362. 5 Claims. (Cl. 101—93.)

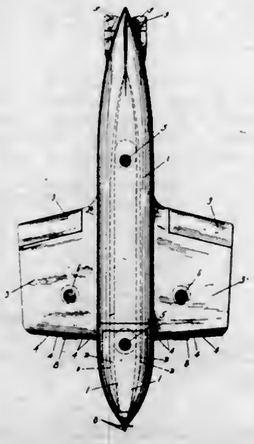


1. In a writing machine, magazines, a plurality of typebars in the magazines, means for setting the magazines into different positions, means for shifting the typebars out of the magazines into certain positions, and means for securing a magazine in a set position and for returning the said setting means and shifting means to their normal positions while the said magazine remains secured.

1,471,655. STEEL MANUFACTURE. FREDERICK J. GRIFFITHS and DUKE N. A. BLACET, Massillon, Ohio. Filed Dec. 31, 1920. Serial No. 434,397. 5 Claims. (Cl. 75—27.)

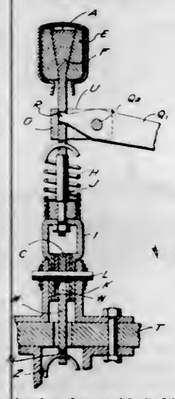
1. In the manufacture of steel, the step which consists in introducing in the steel, while in molten condition, an ingredient that upon distribution throughout the mass produces fiber-like striations, or laminations substantially as described.

1,471,656. AIRCRAFT. CHARLES S. HALL, Los Angeles, Calif. Filed Dec. 21, 1921. Serial No. 524,007. 3 Claims. (Cl. 244—5.)



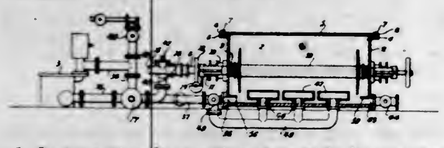
1. In an aircraft the combination of a gas container, wings arranged thereon, vertically disposed tubes constructed through the said container, propellers operatively mounted within the said tubes, tubes constructed within the said wings with propellers mounted therein.

1,471,657. BRAKE FOR ROLLING LADDERS. LEON N. HAMPTON, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 26, 1920. Serial No. 426,464. 16 Claims. (Cl. 188—42.)



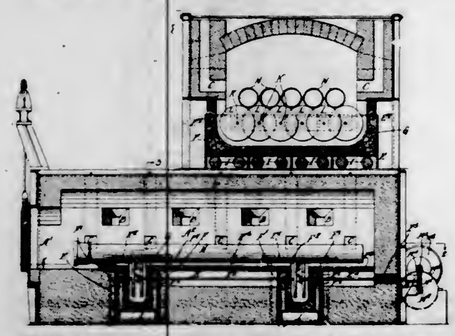
15. A ladder, a brake for said ladder, applied by a vertical movement of said ladder, and means for releasing said brake independently of the movement of the ladder.

1,471,658. ROTARY PERFORATED-BEAM APPARATUS FOR DYEING AND OTHERWISE TREATING YARN WITH FLUIDS. ROBERT SMITH HEAP, Lightenhill, Burnley, England. Filed Jan. 6, 1921. Serial No. 435,358. 3 Claims. (Cl. 8—17.)



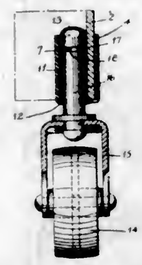
1. In apparatus for treating yarn with fluids, a vat, a plurality of nozzles opening into the vat, a perforated hollow box for each nozzle through which the liquid passes and which are adapted to support yarn in the cop, cheese or hank, and a common conduit for supplying a fluid to all of said nozzles.

1,471,659. ANNEALING FURNACE. ERNST G. HELANDER, Philadelphia, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed June 16, 1922. Serial No. 568,702. 2 Claims. (Cl. 263—7.)



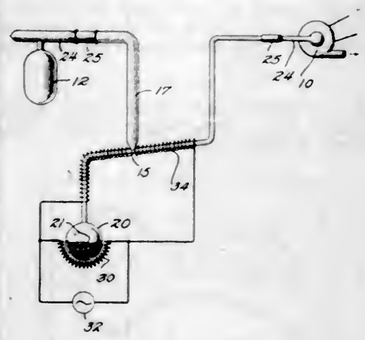
1. In an annealing furnace for pipes having transverse chambers extending through and below the furnace bottom in combination with open topped boxes situated in said chambers having water cooled shaft bearings in their side walls and non-conducting linings on the inside of their water cooled walls, shafts extending through the boxes and supported on their water cooled bearings and pipe supporting and rotating rollers secured to the shafts between the box walls.

1,471,660. CASTER. WALTER F. HEROLD, Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed May 18, 1922. Serial No. 561,794. 3 Claims. (Cl. 16—29.)



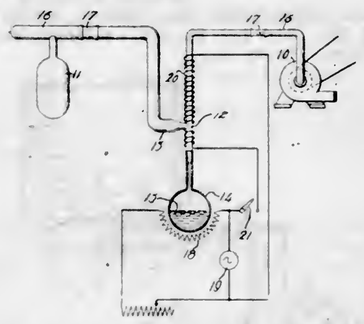
1. In a caster, the combination of a member adapted to receive the lower end of an angle iron and a pintle sleeve adapted to be inserted and frictionally secured, with a forced fit, within said member between a surface thereof and the inner faces of the angle iron, said sleeve being adapted to press against said surface of the receiving member and a surface of the angle iron sufficiently to bind said member, sleeve, and angle iron together, said sleeve also having a closed top and acting as a pintle-receiving socket.

1,471,661. VACUUM PUMP. WILLIAM GIBBONS HOUSKEEPER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 30, 1920. Serial No. 406,923. 14 Claims. (Cl. 230—13.)



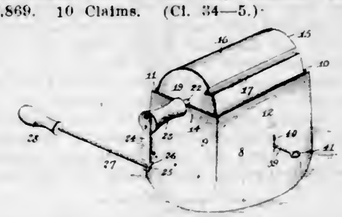
8. A vacuum pump comprising a pumping chamber, a supply of pumping medium which may be converted from the solid to the gaseous state without passing through the liquid state, and means for vaporizing said pumping medium to establish a vapor stream traversing said pumping chamber.

1,471,662. VACUUM PUMP. WILLIAM G. HOUSKEEPER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 20, 1921. Serial No. 478,975. 30 Claims. (Cl. 230—13.)



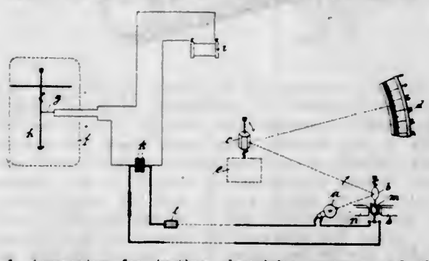
1. In combination, a vacuum pump having a pumping chamber, a vaporizable substance having at room temperature a vapor pressure less than that of mercury at the same temperature, and means for projecting a vapor jet of said substance through said pumping chamber.

1,471,663. COFFEE ROASTER. CHARLES T. HOWSON, Silver Creek, N. Y. Filed Aug. 9, 1921. Serial No. 490,869. 10 Claims. (Cl. 34—5.)



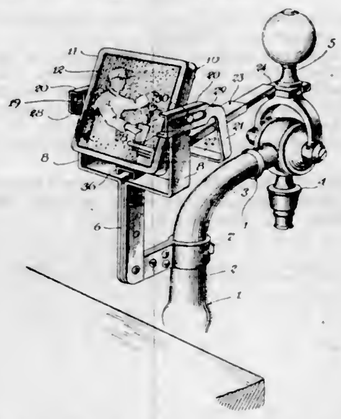
1. A coffee roaster, comprising a heating chamber having a cylindrical lower end and a rectangular upper end whose corners merge into and vanish at said cylindrical lower end, a rotatable drum positioned at least in part within said chamber and journaled in opposite walls at the upper end of said chamber.

1,471,664. ELECTRICITY COUNTER. KARL R. HAMUOTILA, Helsingfors, Finland. Filed Jan. 31, 1921. Serial No. 441,461. 3 Claims. (Cl. 88—14.)



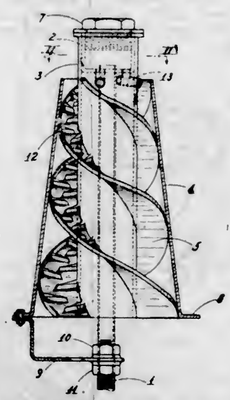
1. Apparatus for testing electricity meters, and the like, comprising in combination with the rotatable axis of the said meter a contact arm mounted on said axis, an electric circuit, an inductance coil therein, two contacts in the said circuit with a spark gap between them adapted to be periodically bridged by the said contact arm to form a spark, a supplementary circuit adapted to be closed upon the said first mentioned circuit being closed by the spark, a galvanometer included in the said supplementary circuit, a source of light, a mirror carried by the said galvanometer and periodically deflected therewith, so as to receive a ray of light from the said source of light, a second mirror revolving at a constant predetermined rate of speed and arranged to receive a reflection of the said ray of light from the said first mentioned mirror, and a means for determining the position of the said ray of light as reflected from the said second mirror.

1,471,665. ADVERTISING DEVICE. CHARLES L. KEE, Portsmouth, Va. Filed Apr. 18, 1923. Serial No. 632,952. 5 Claims. (Cl. 40—28.)



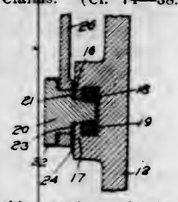
2. In a device of the character described, a sign having a plurality of faces having respectively depicted thereon representation suggestive of successive stages in the use of a commodity, means for mounting the sign for turning movement, stop means for limiting the movement of the sign, an operating handle movable back and forth, and motion transmission means between the operating handle and the sign including an extensible connecting element.

1,471,666. LIQUID-FUEL BURNER. ROBERT M. KENNEDY, Pittsburgh, Pa. Filed June 22, 1922. Serial No. 570,204. 7 Claims. (Cl. 158—91.)



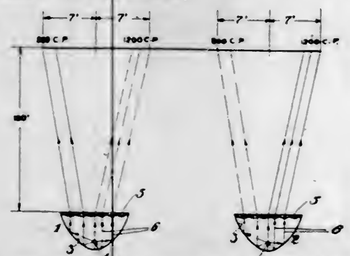
1. A liquid fuel burner comprising a fuel supply pipe having a discharge orifice, an imperforate inclined vane, the upper end of which is disposed below said orifice to receive fuel discharged therefrom, and means for causing the body of air passing upwardly of said vane to traverse the entire extent of said vane in direct intimate contact with its upper surface.

1,471,667. WASHING MACHINE. BERNARD E. LITOT, Wilkinsburg, Pa. Filed Oct. 21, 1921. Serial No. 509,355. 3 Claims. (Cl. 74—38.)



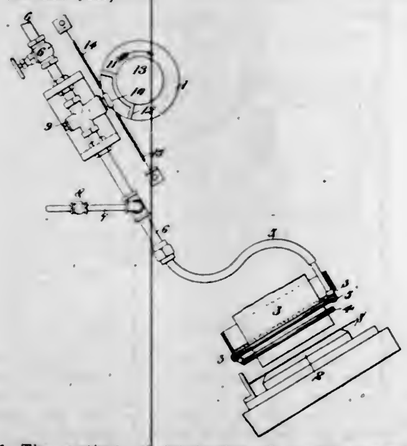
1. An adjustable crank mechanism comprising a rotatable member provided with a radial slot in its face, a polygonal block in said slot, a bearing pin having a reduced inner end removably engaging the block and causing the shoulder formed between the reduced inner end and the enlarged outer end to frictionally engage the face of said member to position the same, and a pivoted member attached to the said outer end.

1,471,668. HEADLIGHT LENS. EDWARD LYNDON, New York, N. Y. Filed Sept. 16, 1921. Serial No. 501,020. 4 Claims. (Cl. 240—48.4.)



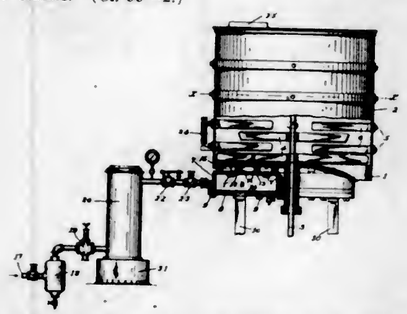
1. A headlight lens including one substantially vertical continuous face and the other face composed of a succession of substantially vertical similar configurations inclined downward with respect to said face, each said configuration having portions sloping laterally and asymmetrically toward said vertical face in opposite directions.

1,471,669. METHOD AND APPARATUS FOR LUBRICATING PUNCHING DIES. HENRY MILLER, San Francisco, Calif., assignor to American Can Company, San Francisco, Calif., a Corporation of New Jersey. Filed May 23, 1921. Serial No. 471,875. 14 Claims. (Cl. 164—86.)



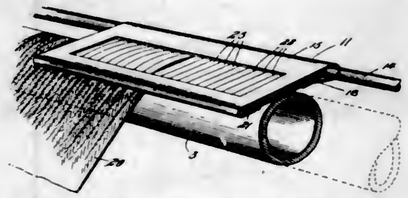
1. The method of lubricating the cutting members of sheet metal cutting presses, which consists in intermittently subjecting the cutting members to sprays of lubricant, directed inwardly from all sides towards the longitudinal axis of said members, during the operation of the press.

1,471,670. STERILIZER. FRANK WENDELL SMITH, Portland, Me. Filed Dec. 19, 1921. Serial No. 523,537. 3 Claims. (Cl. 99—2.)



1. In a sterilizer, the combination of a receptacle or container for food products with a vertical, centrally located revolving spindle with blades attached thereto, faces of which blades are so presented to the food to be sterilized as to produce both a lateral and vertical movement to same, tiers of stationary blades secured to inside wall of container interposed between the tiers of revolving ones so as to retard somewhat the movement of the food and thereby cause it to become thoroughly impregnated with the heating agent, means for pre-heating the food by steam, super-heated by an auxiliary and independent heater, separate and apart from the original generator and in close proximity to the food to be acted upon, and means to automatically regulate and control the temperature and pressure of the super-heated steam, substantially as described.

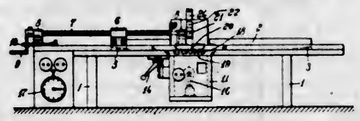
1,471,671. ATTACHMENT FOR SUCTION-APPLYING MEMBERS OF VACUUM CLOTH HYDROEXTRACTORS. GEORGE W. VOELKER, Woonsocket, R. I. Filed June 21, 1922. Serial No. 569,929. 18 Claims. (Cl. 34—48.)



1. In a machine for extracting liquid from cloth or other material, in combination, a slotted member connected to a suction pump adapted to apply the suction to the material acted upon, means for drawing said material in open form over the slot in said member, slidable closure means attached to said member adapted to be slowly shut to ease the starting action of the suction pump, and to be opened when desired to release the vacuum, and means for automatically sealing the vacuum between the ends of the slot and the material acted upon.

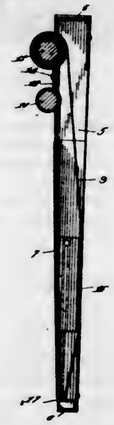
1,471,672. PHOTOGRAPHIC-PRINTING DEVICE. BRUNO WEHRLI, Kilchberg, Switzerland. Filed Aug. 30, 1922. Serial No. 585,162. 2 Claims. (Cl. 45—75.)

1. A device for producing photographic prints and particularly post-cards on large sheets of sensitive paper, comprising in combination, a frame adapted to have the sheet with the sensitive layer facing downwards fixed to it, means adapted to displace said frame longitudinally in a horizontal plane, means containing the source of light with its opening pointing upwards



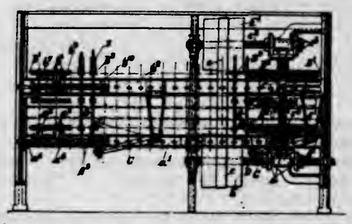
and holding a negative to be printed, and means adapted to cause a displacement of the last named means in a direction at right angles to the direction in which said frame can be displaced.

1,471,673. ROLL WRITING TABLET. JOSEPH J. WELTE, St. Paul, Minn., assignor to Herman Schoener, St. Cloud, Minn. Filed Nov. 24, 1920. Serial No. 426,226. 1 Claim. (Cl. 281—8.)



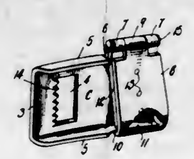
In a writing tablet, a frame including side and end bars, a plate having right angled ends supported between the side bars and having connection therewith, means extending through the right angled ends and side bars for securing the plate in position, a table secured to the side bars adjacent to the upper edges thereof, said table being of a length to provide a space between one end thereot and one end bar of the frame, the table having curved upper and lower edges, spring clips secured to the side bars, rolls supported under the spring clip, said frame and rolls adapted to support a web and means for operating the rolls.

1,471,674. DRIVING APPARATUS FOR RING SPINNING, DOUBLING, AND TWISTING MACHINERY. THOMAS WHITEHEAD, Queensbury, England. Filed Jan. 25, 1923. Serial No. 614,846. 9 Claims. (Cl. 118—48.)



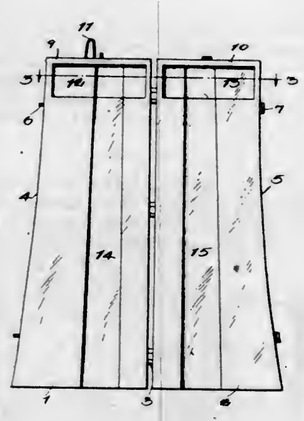
1. In driving apparatus for spinning machines, two separate driving pulleys arranged on the same axis, spindles provided with driving wharles, traveller carriers also provided with driving wharles and journaled concentric with the said spindles, endless driving bands operatively connecting the spindle wharles and the traveller carrier wharles with the respective driving pulleys, and means for driving the said spindles and traveller carriers at relatively different speeds.

1,471,675. PUTTY CLIP. WILLIAM E. WILSON, Akron, Ohio. Filed Dec. 19, 1919. Serial No. 346,000. 1 Claim. (Cl. 24—191.)



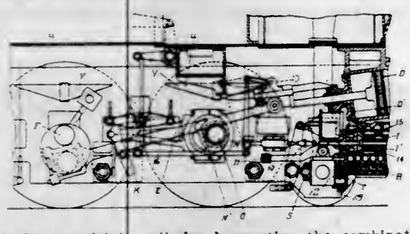
A device of the class described comprising a body having a slot adjacent one end, right angularly extending flanges along its longitudinal edges, one of said flanges extending throughout the length of the body and the other terminating a distance from one end thereof, a clamp hinged on the edge having the shorter flange adjacent the termination thereof, the width of the clamp being less than the length of the body, so that the clamp does not extend over the slot.

1,471,676. PANTS PRESSER. PETER J. ARBES, Ada, Minn. Filed July 25, 1922. Serial No. 577,413. 1 Claim. (Cl. 100—57.)



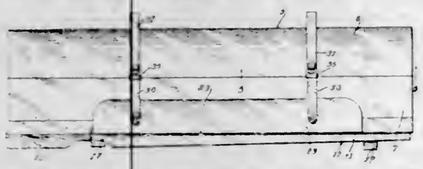
As a new article of manufacture, a combined presser and casing for trousers comprising a pair of like companion presser boards oppositely disposed arranged to receive and completely house a pair of trousers, said presser boards having their inner longitudinal edges parallel to each other and hingedly connected, their outer edges being tapered toward one end, means connecting the boards together opposite to the point of their hinge connection, the meeting face of each of the presser boards having transversely disposed grooves formed therein adjacent to the mentioned end thereof for receiving the cuffs of a pair of trousers, said presser boards having their meeting faces also provided with straight longitudinally extending grooves adjacent to their straight longitudinal edges communicating with the transverse grooves for receiving the seams of the trousers.

1,471,677. FOUR-CYLINDER COMPOUND LOCOMOTIVE. GEORGES BAILLOT, Embourg, near Liege, Belgium. Filed June 17, 1920. Serial No. 389,692. 36 Claims. (Cl. 105—39.)



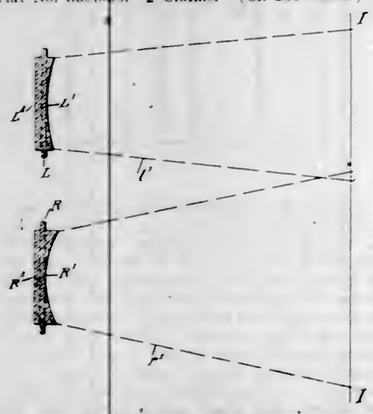
1. In a multiple cylinder locomotive the combination of, high pressure cylinders; and low pressure cylinders; the low pressure cylinders being inclined relative to the high pressure cylinders.

1,471,678. TABLE. GEORGE W. BALLINGER and ALBERT E. BALLINGER, Upland, Ind. Filed Mar. 22, 1922. Serial No. 545,740. 1 Claim. (Cl. 164—78.)



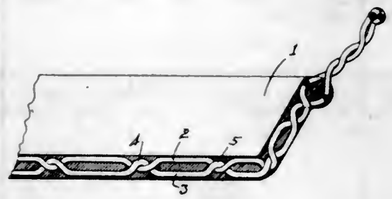
In a device of the character described, a supporting table a cutting blade secured along one edge of the table, a guiding member secured to the table and depending therefrom, a movable cutting bar carrying a cutting blade cooperating with the first mentioned cutting blade, a connecting arm having pivotal connection with the table and having pivotal connection with the movable bar at one end thereof, to cause the movable bar to move longitudinally of the first mentioned cutting bar when the movable bar is forced downwardly, and means for clamping an article on the table.

1,471,679. DUAL SUPPLEMENTING HEADLIGHT. LOUIS BELL, West Newton, Mass., assignor to Edward N. Goding, trustee, Newton, Mass. Filed Feb. 13, 1920. Serial No. 358,536. 2 Claims. (Cl. 240—48.4.)



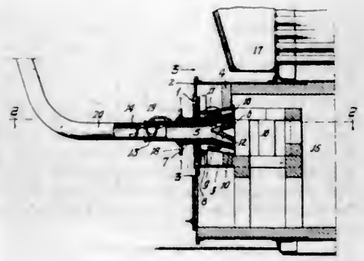
1. A pair of headlights each comprising a projector and each having a refractive screen spaced apart in the same plane, the screen of the left hand light having means to project a beam of substantially oval cross section and horizontal major axis and slight axial displacement, and the screen of the right hand headlight having means to project a beam of substantially oval cross section and horizontal major axis of greater length than that of the left hand headlight and overlapping the medial axis of said pair of screens, the upper end of the vertical axis of the left hand beam being substantially at the level of the lamp.

1,471,680. REENFORCED PLASTIC CONTAINER. MAURICE BERNSTEIN, San Francisco, Calif. Filed Mar. 8, 1922. Serial No. 541,943. 1 Claim. (Cl. 229—1.5.)



An article of the class described comprising a reinforcing consisting of wires twisted together to form elongated loops, and a plastic material forming the article surrounding the reinforcing, the reinforcing being arranged to lie with the loops substantially parallel to the plane of the inner and outer surfaces of the article and closely adjacent the surfaces thereof whereby upon any wear of the article the loops of reinforcing will prevent undue wear.

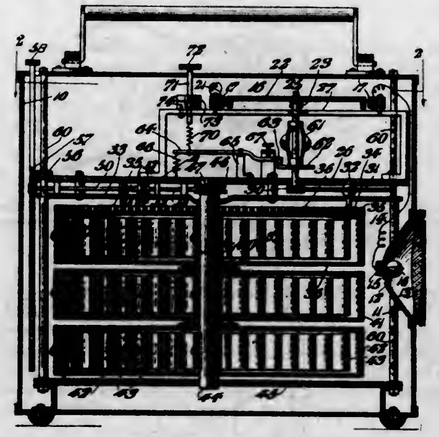
1,471,681. APPARATUS FOR FIRING FURNACES WITH POWDERED FUEL. JAMES JOHN CANTLEY BRAND, Sydney, New South Wales, Australia. Original application filed Mar. 7, 1919, Serial No. 281,189. Divided and this application filed July 11, 1921. Serial No. 483,910. 2 Claims. (Cl. 110—28.)



1. A burner for the purpose described comprising a water jacketed flared nozzle, a collar surrounding and spaced from said nozzle, an air blast box enclosing said collar and supplying pressure air thereto, said collar having apertures leading from the air blast box to the interior of the collar and a fire brick hot box constructed of open-work fire brick located in front of the burner nozzle.

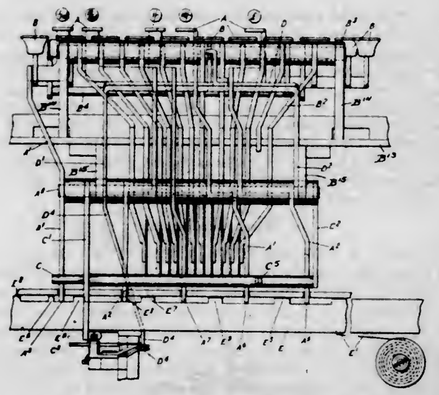
1,471,682. PORTABLE ELECTRIC LANTERN. CARTER B. BURNET, South Norfolk, Va., assignor of one-half to William W. Slaymaker, Philadelphia, Pa. Filed June 25, 1920. Serial No. 391,658. 4 Claims. (Cl. 240—8.5.)

1. In a portable device of the character described, the combination of a casing, a motor located within the lower portion of the casing and having a vertical shaft, an electric lamp located at the side of the casing, means for energizing the lamp including a generator actuated by the motor and disposed thereabove, a winding device comprising a winding shaft extending outwardly from the said



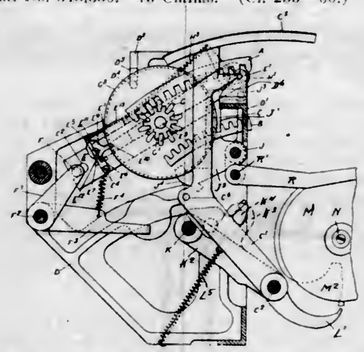
shaft, gearing connecting the shafts, and means for operating the winding shaft having a reciprocatory member extending through the top of the casing.

1,471,683. CALCULATING MACHINE. EDWARD RUSSELL-CLARKE, deceased, late of London, England, by Frances Maud Russell-Clarke, executrix, London, England, assignor to Autokal Syndicate Limited, London, England. Filed Dec. 9, 1919. Serial No. 343,629. 22 Claims. (Cl. 235—60.)



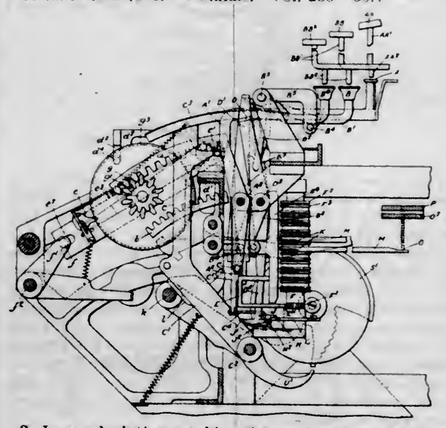
1. In a calculating machine the combination of a plurality of members each separately movable parallel to itself in two directions at right angles, a plurality of stops which when set up determine the positions into which these members move, a series of longitudinally movable rods by means of which the determining stops are set up, the ends of these rods being all grouped like a chess board in rows parallel in two directions and in one plane, a series of knives each adapted to reciprocate towards and between the grouped ends of the stop setting rods, keys by means of which these knives are actuated, and key controlled means for shifting the ends of the stop setting rods in rows at right angles to the knives so as to bring the ends of the rods into the paths of the knives as set forth.

1,471,684. CALCULATING MACHINE. EDWARD RUSSELL-CLARKE, deceased, by Frances Maud Russell-Clarke, executrix, London, England, assignor to Autokal Syndicate Limited, London, England. Filed Dec. 9, 1919. Serial No. 343,630. 15 Claims. (Cl. 235—60.)



1. In a calculating machine for performing addition or subtraction the combination of a series of cooperating mechanical units each comprising a pair of pivotally mounted curved sectors one of which is toothed on its concave side while the other is toothed on its convex side, a double pinion adapted to engage either of the toothed sectors, a number wheel carried by the double pinion, and a detent by means of which the number wheel is locked against rotation except when the pinion is in engagement with one of the sectors, means by which all the double pinions can be simultaneously moved into engagement with either of the sectors in their respective units, and means for moving and positioning the sectors in accordance with items fed into the machine as set forth.

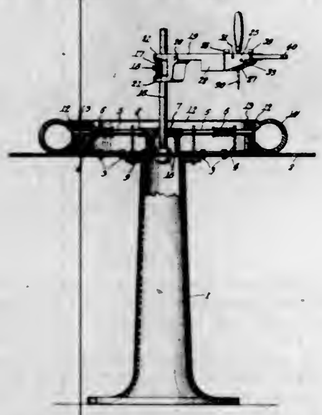
1,471,685. CALCULATING MACHINE. EDWARD RUSSELL-CLARKE, deceased, by Frances Maud Russell-Clarke, executrix, London, England, assignor to Autokal Syndicate Limited, London, England. Filed Dec. 9, 1919. Serial No. 343,631. 3 Claims. (Cl. 235—60.)



2. In a calculating machine the combination of a typewriting machine having tabulating and numeral keys the former being operative to bring the paper relatively to the printing point into a quantity or price position, mechanism for performing multiplication, denomination selecting and numeral keys which actuate this mechanism the numeral keys being operative only to feed items into the machine as and to the extent determined by the actuation of a denomination selecting key, these keys being positioned so that actuation of a tabulating key in the type-

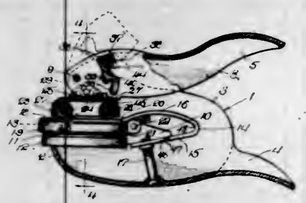
writing machine will cause movement of a denomination selecting key in the calculating machine and actuation of a numeral key in the typewriting machine will cause movement of a numeral key in the tabulating machine.

1,471,686. TIRE-CUTTING IMPLEMENT. FRANCIS J. CURTIS, Sharon, Pa. Filed May 13, 1921. Serial No. 469,219. 7 Claims. (Cl. 154—9.)



1. Means for stripping rubber from the fabric of a tire, comprising, tire holding means, a tool suport above said tire holding means, a cutting element adjustable in said tool support, and a rubber stripping element adjustable in said tool support.

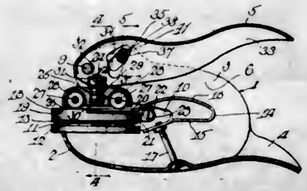
1,471,687. SEAL PRESS. FRANK H. EYMAN, Oak Park, Ill., assignor to Art Novelty Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 31, 1922. Serial No. 533,135. 9 Claims. (Cl. 101—3.)



1. In a press of the class described, the combination of a frame, a stationary die member mounted in the frame, an actuating lever pivotally mounted on the frame and provided with eccentric pressure-applying means on and in eccentric relation to the axis of said lever, a movable die member located adjacent to the stationary die member, and a pressure-distributing shoe member in rocking non-rotative engagement with said eccentric pressure-applying means on said lever and movable at an angle with respect to the path of movement of said movable die member, said shoe being located between the lever and said movable die member and extending on opposite sides of the center of the movable die member in a direction lengthwise of said lever.

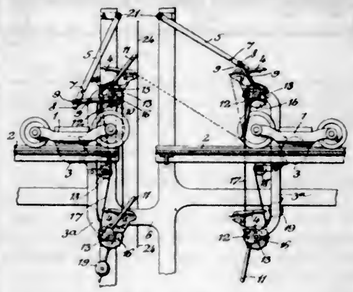
1,471,688. SEAL PRESS. FRANK H. EYMAN, Oak Park, Ill., assignor to Art Novelty Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 18, 1922. Serial No. 607,607. 9 Claims. (Cl. 101—3.)

1. In a press of the class described, the combination of a frame, an operating lever pivotally mounted in the frame, a stationary die member, a movable die member mounted adjacent to said stationary die member, connecting means operatively connected with and forming an operative connection between said operating lever and said movable die member and comprising an adjusting



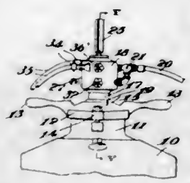
screw interposed between said lever and said movable die member and adapted to enable said movable die member to be adjusted with respect to said operating lever.

1,471,689. HAND EMBROIDERING MACHINE. FRITZ FISCHLI, Nafels, Switzerland. Filed Mar. 31, 1921. Serial No. 457,470. 4 Claims. (Cl. 112—94.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a hand embroidering machine, a device for shortening the stroke of the carriage when drawing out the thread comprising in combination a frame, a carriage thereon, shafts mounted in the carriage, thread drawers carried by the shafts, bars having their inner ends pivotally connected to the frame, arms rigidly connected to the shafts and flexibly connected to the outer ends of the bars whereby a toggle like motion is produced between the bars and arms during the outward stroke of the carriage so that the thread drawers are impelled downwardly to cause the threads to fold into a loop.

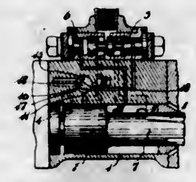
1,471,690. PAINT-SPRAYING APPARATUS. GRANT C. FISH and ALFRED H. CUMMINGS, Chico, Calif. Filed Apr. 17, 1922. Serial No. 553,518. 6 Claims. (Cl. 91—45.)



1. A spraying apparatus including a fluid containing receptacle, a mixing head carried thereby and consisting of a body provided with a fluid discharge duct opening at one end to the atmosphere and its opposite end communicating with the interior of the receptacle, a fluid receiving tube at the inlet end of said duct and extending into the fluid within the receptacle, a valve within said fluid inlet duct, and a valve controlled air duct communicating with said fluid discharge duct and the interior of said

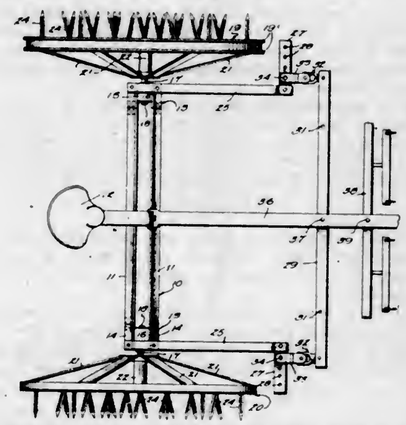
receptacle whereby, on the adjustment of its valve, pressure is admitted into the receptacle to raise the fluid within the receiving tube and to supply an atomizing air stream into said fluid discharge duct.

1,471,691. FLUID-PRESSURE MOTOR. ELMER G. GARTIN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Feb. 26, 1920. Serial No. 361,484. 15 Claims. (Cl. 121—12.)



3. A fluid pressure motor comprising a cylinder, a piston therein, a fluid pressure actuated valve controlling the movements of said piston, a throwing passage therefor having a fixed inlet, and means for varying the length of said throwing passage and its volumetric capacity.

1,471,692. ROTARY HARROW. ANDREW W. GUILD, Houston, Tex. Filed Aug. 31, 1922. Serial No. 585,502. 10 Claims. (Cl. 55—13.)



1. A device of the character described, comprising a main frame, an auxiliary frame hinged at its inner end to each end of said main frame, a stub axle carried by each auxiliary frame and extending outwardly thereof, a traction wheel including a rim mounted on each of said axles, said wheels being provided with outwardly extending harrow teeth, said auxiliary frame being adapted to swing downwardly to dispose said wheels horizontally with the harrow teeth thereof projecting downwardly, the rim of one wheel being provided with an annular groove to receive the rim of the other wheel, and draft means connected with said frame.

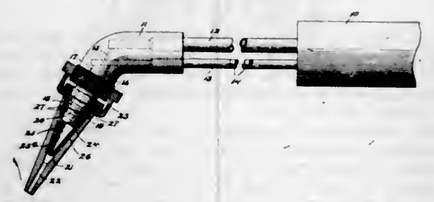
8. A device of the character described, comprising a main cross frame formed of a pair of spaced angle irons, a pair of similarly formed auxiliary frames pivoted to the outer ends of said main frame in alinement therewith, an axle block rigidly mounted between the angle irons of each of said auxiliary frames, said blocks being provided with outstanding stub axles, traction wheels mounted on said axles and provided with outstanding harrow teeth, said wheels being adapted to swing downwardly to a horizontal position with said harrow teeth projecting downwardly, and draft means connected with said frame.

1,471,693. LOCKING DEVICE. WILLIAM EARNEST HARRIS, Long Beach, Calif. Filed Mar. 7, 1923. Serial No. 623,416. 1 Claim. (Cl. 296—47.)



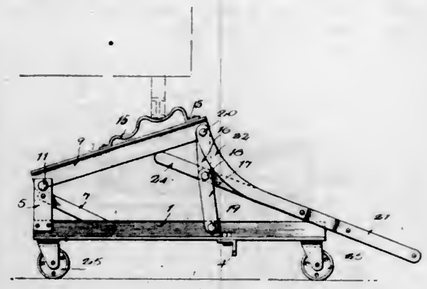
In a closed body construction including spaced upper side rails, a track bar pivotally supported between the rails at one of its ends, said side rails having elongated openings, a bolt carried by the opposite end of the track bar and movable in the elongated openings, window sections operating under the track bar and carrying rollers movable on the track bar, and means disposed above the track bar and contacting therewith for moving the track bar and window sections to create a binding action between the window sections and their frames.

1,471,694. WELDING AND CUTTING TORCH. ALEXANDER F. JENKINS, Baltimore, Md. Filed Dec. 6, 1919. Serial No. 343,062. 8 Claims. (Cl. 158—27.4.)



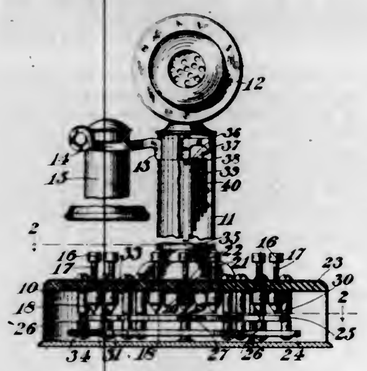
1. In a torch, a head having independent passages therein for gases to be mixed, in combination with a burner tip having a passage therein for mixed gases to be burned, and a member interposed between said head and tip and separate therefrom and having a groove in one face for the mixture of gases, said groove communicating with each of the passages in the head and the passage in the tip, for the purpose set forth.

1,471,695. AUTO LIFT. EMMOR HAMILTON KELLEY and GEORGE ALVA STEWART, Jr., South Brownsville, Pa. Filed Mar. 31, 1922. Serial No. 548,459. 4 Claims. (Cl. 254—113.)



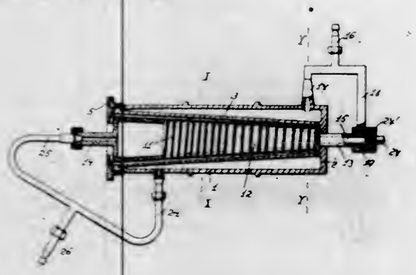
1. A lifting device comprising a supporting rail, a tiltable member carried on said rail, means carried by the tiltable member for engaging an object to be lifted and means for tilting the tiltable member, said means including a swinging lever bar pivotally connected at one end to the tiltable member, and provided with a forward extension, toggle links connecting the tiltable member and the supporting rail, said toggle links being connected at their junction to the said extension of the swinging lever bar.

1,471,696. TELEPHONE. JOSEPH KAY, Stockport, and JOHN JENNINGS, London, England, assignors to Premier Private Telephone Company, Limited, Stockport, England. Filed Mar. 22, 1921. Serial No. 454,394. 3 Claims. (Cl. 179—99.)



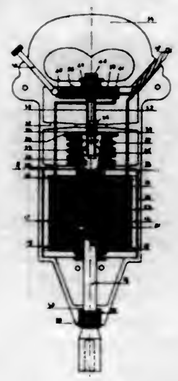
1. In an intercommunication table or desk telephone of the "candlestick" type, the combination with a cylindrical casing constituting the base of the instrument with one end wall at the bottom thereof, a plurality of pairs of studs arranged in said casing in two parallel arcuate rows mounted on the upper end wall of the casing, an arcuate ringing bar mounted on but insulated from said studs, a spring controlled arcuate speaking bar carried slidable endwise arcuately by said studs between the ringing bar and the upper wall of the casing and disposed parallel with the ringing bar, said speaking bar having a plurality of perforations arranged in an arcuate row along the same, and a plurality of spring-controlled contact devices in the form of plungers insulated one from another, movable endwise in the upper end wall of the casing and having each at its inner end a shouldered head, each of which heads is adapted to engage said speaking bar in one of said perforations and thereby slide the bar endwise, and is adapted to pass through its slotted perforation and contact with said ringing bar and to be engaged by the speaking bar at the shoulder.

1,471,697. APPARATUS FOR MAKING SUGAR FONDANT. FRANTIŠEK KUBEŠ, Prague-Nusle, Czechoslovakia. Filed Sept. 9, 1922. Serial No. 587,247. 3 Claims. (Cl. 107—30.)



1. In an apparatus for the manufacture of fondant from a hot viscous boiled sugar mass, the combination with a cooled casing having a conical cavity, of a hollow conical roller located in said cavity, and a helical groove formed in the periphery of said conical roller, whereby the hot viscous sugar mass fed into said helical groove at the small end of said conical roller, is caused by the rotation of said conical roller to advance at a continuously increasing circumferential velocity towards the large end of said conical roller, keeping pace with the cooling of the sugar mass, whereby the latter is prevented from crystallizing.

1,471,698. RECIPROCATING ELECTRIC MOTOR. GUIDO MAZZA, Turin, Italy. Filed Apr. 12, 1921. Serial No. 460,677. 10 Claims. (Cl. 172—126.)



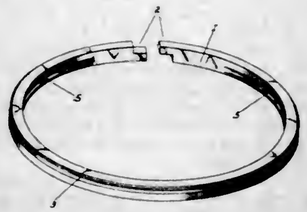
2. In a reciprocating motor, a magnet coil casing comprising two cover plates of insulating material having radial grooves formed therein, and connecting strips of magnetic material having angular end portions mounted in the grooves.

3. In a reciprocating motor, a magnetic coil, a core arranged to reciprocate therein and having a conical recess, an automatic switch comprising spring arms extending into the recess and contacts on said arms movable into and out of contact by the reciprocations of the core.

1,471,699. ARTIFICIAL SILK AND METHOD OF MAKING THE SAME. CURTIS C. MEIGS, Bala, Pa. Filed May 15, 1922. Serial No. 561,190. 5 Claims. (Cl. 18—54.)

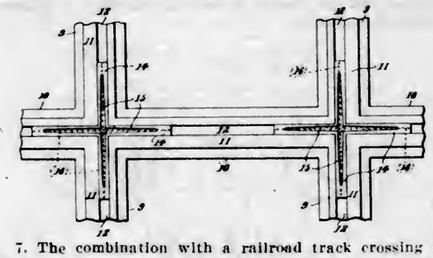
2. The process of making artificial silk which consists in dissolving cellulose material and cellulose acetate in a solution of ammonia and copper hydrate, spinning the solution formed, and precipitating the spun material.

1,471,700. PISTON RING. FRED M. MOORE, Sacramento, Calif. Filed May 29, 1922. Serial No. 564,321. 2 Claims. (Cl. 74—109.)



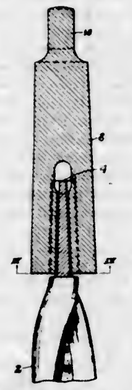
1. In a piston ring, a groove cut in the lower face thereof and positioned with respect to the outer periphery of the ring to collect oil from the wall of the cylinder in which the piston moves, and arcuate grooves cut eccentric with the ring circle from the inner face of the ring intermediate the upper and lower faces thereof to meet and intersect the first named groove.

1,471,701. SHOCK ABSORBER FOR RAILROAD CROSSINGS. JOHN NELSON, Ottawa, Kans. Filed Mar. 12, 1923. Serial No. 624,422. 9 Claims. (Cl. 246—457.)



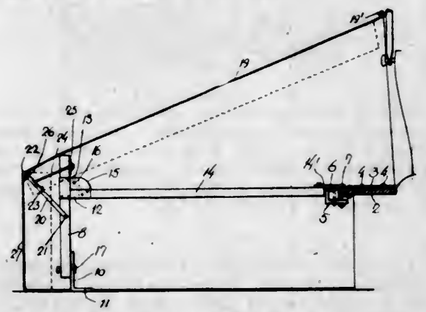
7. The combination with a railroad track crossing or frog, of a groove filling bridge resembling a cross, and reinforcing wire embedded within the arms of said cross and extending longitudinally thereof.

1,471,702. DRILL SHANK AND SLEEVE SOCKET. ANTHONY A. MULAC, Alliance, Ohio, assignor to The Buckeye Twist Drill Company, Alliance, Ohio, a Corporation of Ohio. Filed May 27, 1921. Serial No 473,015. 7 Claims. (Cl. 279—103.)



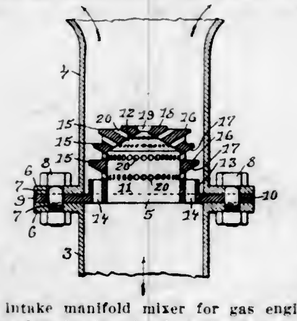
1. A drill or the like having an integral straight shank with concave flutes on opposite sides extending from like flutes in the body of the drill, the faces of the flutes being uniformly tapered longitudinally from the base to the end of the shank.

1,471,703. AUTOMOBILE BED. JOHN S. ODOM, Illawatha, Kans. Filed Nov. 28, 1922. Serial No. 603,781. 2 Claims. (Cl. 5—119.)



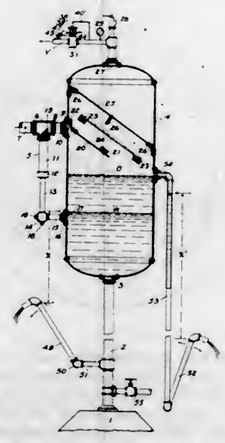
1. A knock down bed attachment for automobiles comprising straps adapted to be secured to the running board of a car and provided with outer looped ends and vertical clamp bolts engaging the branches of said looped ends, a transverse head piece adapted to be engaged with said looped ends and clamped therein by said bolts, a foot having inward extending brackets provided with open top slot seats, and lower vertically adjustable extensions, side rails having detachable connection with said head piece and lateral pins detachably engaging the seats of said brackets, the lower extensions of said foot having inturned ends adapted when the bed is knocked down for connection with said clamp bolts to form with the running board of the car a luggage carrier.

1,471,704. MANIFOLD MIXER FOR GAS ENGINES. GIUSEPPE PALIZZA, Providence, R. I. Filed Dec. 20, 1922. Serial No. 607,991. 3 Claims. (Cl. 48—180.)



3. An intake manifold mixer for gas engines having a thimble shaped mixer head, a ring around the mixer head and having a series of holes parallel with the sides of the mixer head, said mixer head having a plurality of external annular ledges gradually reduced in size towards the end of the mixer head, each ledge having a flat top surface at right angles to the sides of the mixer head and an inclined under face, a series of holes under each ledge and inclined at the same angle as the under face of the ledge, a series of angular holes extending through the end of the mixer head which has a raised flat end in which is a funnel shaped central hole, all formed integral, and means for securing the mixer head in an intake manifold of a gas engine, for the purpose as described.

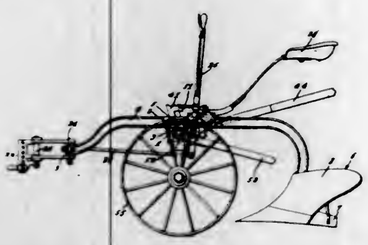
1,471,705. APPARATUS FOR TREATING FRESH PETROLEUM. HOLLIS P. PORTER, Tulsa, Okla. Filed Oct. 3, 1917. Serial No. 194,508. 7 Claims. (Cl. 183—3.)



1. Apparatus for conserving gas and vapors from fresh petroleum as it is produced at the well comprising, a closed vessel stationarily supported at a fixed elevation,

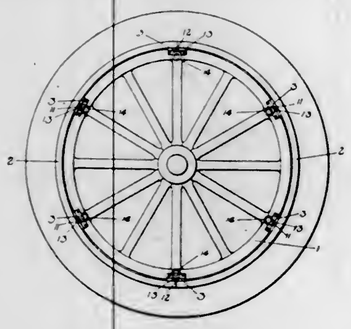
an intake pipe connecting the well with said vessel and operating to deliver the fresh petroleum into said vessel without exposure to air or dilution with extraneous matter, said intake including means for breaking up the oil stream, a vacuum line connected to said vessel, one or more baffles mounted within said vessel in the path of the broken up oil stream for receiving oil particles and exposing them to the action of the vacuum, and barometric outflow means connected to said vessel whereby the liquid may escape automatically while permitting the maintenance of a partial vacuum therein.

1,471,706. PLOW. FRANK HENRY RAAZ, El Campo, Tex. Filed Apr. 24, 1922. Serial No. 556,207. 2 Claims. (Cl. 97—84.)



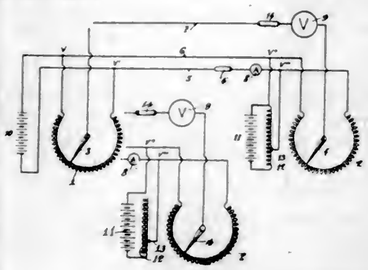
1. In a device of the class described, a main member; a soil-engaging element; means for connecting the soil engaging element to the main member; a shaft mounted to rock in the main member; hangers pivoted on the shaft; ground wheels carried by the hangers; means for locking both hangers for movement with the shaft; means for swinging either hanger independently of the other, on the shaft; and means for rocking the shaft, when the hangers are locked thereto, thereby to secure a swinging movement of both hangers simultaneously.

1,471,707. DEMOUNTABLE RIM FOR AUTOMOBILE WHEELS. HARVEY JOHN DONALDSON ROBINSON, Trochu, Alberta, Canada. Filed Apr. 10, 1922. Serial No. 551,138. 5 Claims. (Cl. 301—31.)



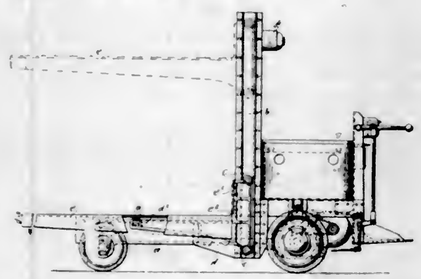
1. In automobile demountable rims, the combination with the felloe, of a tire carrying rim, inwardly extending studs on the rim, rim carrying blocks fixedly secured to the felloe, each of said blocks having an outwardly extending flange with an inwardly extending slot communicating with an orifice, and means for retaining the studs in the orifices upon the tire carrying rim being applied to the blocks.

1,471,708. ELECTRICAL APPARATUS FOR INDICATING AND REPEATING MOVEMENTS AT A DISTANCE. JOSEPH LOUIS ROUTIN, Paris, France. Filed Feb. 25, 1920. Serial No. 361,368. 3 Claims. (Cl. 177—337.)



3. Apparatus for indicating and controlling movements at receiving stations from a distant transmitting station comprising a plurality of rheostats one of which is located at the transmitting station and the others of which are located at the receiving stations, a source of potential at the transmitting station, means adapted to connect the same in parallel with said rheostats, means including a separate source of potential at each receiving station for regulating the difference of potential across the terminals of each of said receiving-station rheostats whereby the receiving-station voltages are kept equal that of the transmitting-station rheostat, bridge means for connecting said transmitting station rheostat with each of said receiving-station rheostats, each of said means including a voltmeter and terminal sliding contacts, and current distributors for successively varying connections between said transmitting source of current and said bridge circuits and said receiving station rheostats.

1,471,709. INDUSTRIAL TRUCK. WILLIAM SCHROEDER, Jr., Brooklyn, N. Y. Original application filed Sept. 17, 1921, Serial No. 501,287. Divided and this application filed June 29, 1922. Serial No. 571,643. 3 Claims. (Cl. 187—9.)

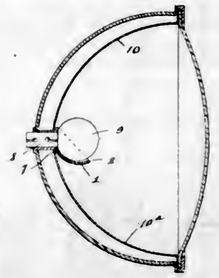


3. In an industrial truck in combination with vertical trackways, rollers running therein, a cantilever frame carried with the rollers, a platform mounted on the cantilever frame adapted to flex adjacent its inner edge and springs interposed between the frame and the platform to support the latter yieldingly.

1,471,710. NONGLARE REFLECTOR FOR HEADLIGHTS. THOMAS BURTON SHANAHAN, Rochester, N. Y. Filed Jan. 15, 1921. Serial No. 437,547. 1 Claim. (Cl. 240—48.6.)

The combination with a headlight comprising a reflector, a lamp socket at the center of the reflector and an electric lamp arranged in the axis of the reflector

and having a base for entering the socket, of a nonglare reflector in the form of a spoon arranged below the lamp bulb, the spoon being spherically concave, and having its intermediate zone of different spherical curvature than the end zones and the upward forward edge

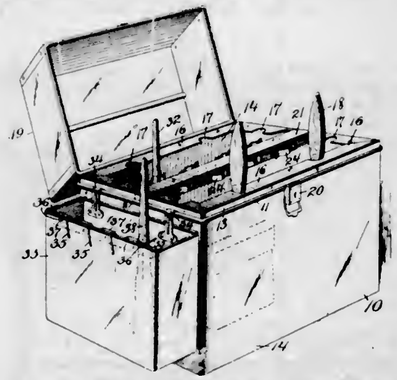


of the spoon being inclined downwardly and forwardly on opposite sides of the bulb in a plane intersecting the axis of the reflector, the spoon being provided with an opening near one end for receiving the lamp base, substantially as and for the purpose described.

1,471,711. PROCESS FOR OBTAINING NITRITE FROM NITROUS FUMES PRODUCED IN ELECTRIC-ARC FURNACES. WERNER SIEBERT, Laufenburg, Aargau, Switzerland, assignor to Nitrum Aktiengesellschaft, Zurich, Switzerland, a Corporation of Switzerland. Filed May 13, 1922. Serial No. 560,729. 2 Claims. (Cl. 23—1.)

1. A process for obtaining pure nitrite from nitrous fumes produced in electric arc furnaces, which consists in introducing the nitrous gases at a temperature of from 150° to 200° C. into the absorption system, and in keeping the absorption liquid at a temperature of below 40° C. in all parts of the system whereby the introduced gases are abruptly brought to the temperature of the liquid when coming in contact with the latter.

1,471,712. CASE FOR HOLDING BRUSHES. FRIEDRICH SOHNLE, Newark, N. J. Filed May 16, 1922. Serial No. 561,468. 3 Claims. (Cl. 206—16.)



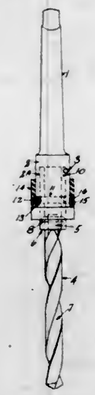
1. A brush holding case comprising a tank having substantially vertical sides, an inwardly turned flange on its top edge, the flange being notched to hold the handles of brushes flatwise to the walls of the tank, a bar with downwardly turned lips to enter between the wall and flange of the tank at each end so as to be readily removable, and means for holding brush handles vertically at the edges of the bar.

1,471,713. RAZOR STROP. JOHN STADNICZEK, Elizabeth, N. J. Filed May 20, 1922. Serial No. 562,377. 1 Claim. (Cl. 51—203.)



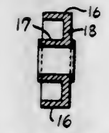
In a device of the class described, a rectangular plate having an opening therein, strap members secured to said plate at one of their ends, an elongated strip having the other ends of said strap members secured thereto, a rotatable thimble in engagement with said rectangular plate, a handle in permanent engagement with said thimble, said elongated strip and the handle being provided with co-extensive bores, and a threaded rod receivable in said bores and having a free passage through said opening in the rectangular plate, said rod being in threaded engagement with said elongated strip and said thimble and being adapted to cause a movement of the rectangular plate toward or away from said elongated strip upon a rotary movement of said handle and thimble.

1,471,714. DRILL DEVICE. FRANK A. VEITH, Erie, Pa. Filed Jan. 5, 1920. Serial No. 349,507. 6 Claims. (Cl. 279—9.)



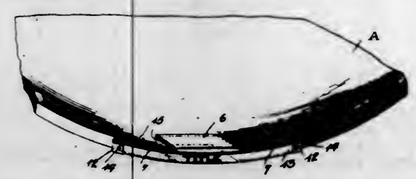
1. In a drill holder, the combination of a chuck socket; a sleeve having a drill holding socket arranged in said chuck socket; and a key in the sleeve, said key being in the direction of a chord of the circle formed by the inner surface of the sleeve and arranged along the wall of the sleeve and adapted to permit the insertion of a twist drill, the flute of the drill passing along the key.

1,471,715. PATTERN-CHAIN ROLL FOR LOOMS. CHARLES M. WHITMORE, Worcester, Mass., assignor to Crompton & Knowles Loom Works, a Corporation of Massachusetts. Filed Mar. 17, 1922. Serial No. 544,572. 1 Claim. (Cl. 139—333.)



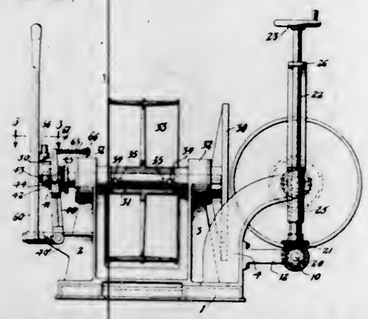
A pattern chain roll for looms comprising a flat tread portion, a hub and a continuous web connecting said tread and hub, said hub being of greater length than the width of the tread and projecting on both sides beyond the edges thereof and one side of said web forming a surface substantially continuous with one edge of said tread.

1,471,716. IDENTIFICATION CLIP FOR PHONOGRAPH RECORDS. ROBERT AUSTIN, Baltimore, Md. Filed Dec. 21, 1921. Serial No. 523,986. 1 Claim. (Cl. 40—23.)



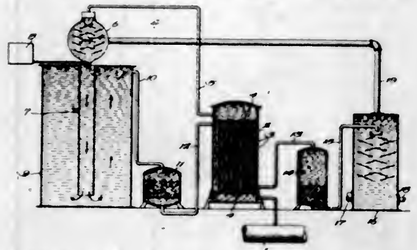
A phonograph clip formed from a blank of material having a substantially rectangular body bent to form a housing, diametrically opposed arms formed on and extending laterally from said housing, said housing embracing the opposite side faces of a record when the arms are moved into contact with the circumferential edge of a record, anchoring members carried by the terminals of the arms, and an identification tag secured to the body and arms and retained thereon by the anchoring members, and a lining for the interior of the arms and housing.

1,471,717. FRICTION-DRIVE-CONTROLLING MECHANISM. MEYER AXILROD, Philadelphia, Pa., assignor to Axilrod Power Transmission Company, Philadelphia, Pa., a Corporation of Delaware. Filed Apr. 21, 1920, Serial No. 375,493. Renewed Mar. 20, 1923. 8 Claims. (Cl. 74—26.)



1. In a machine of the character described, the combination of a longitudinally movable shaft, an arm pivotally supported and extending transversely of said shaft and having operative connection therewith, said arm being adapted to be moved back and forth about its pivot in the direction of the length of said shaft, a member adapted to be moved back and forth transversely of said shaft, and means intermediate said arm and said member whereby the back and forth movements of said member cause back and forth movements of said arm to cause longitudinal movements of said shaft.

1,471,718. APPARATUS FOR SOFTENING WATER. KENT W. BARTLETT, Hammond, Ind. Filed Jan. 12, 1920. Serial No. 350,969. 1 Claim. (Cl. 210—16.)



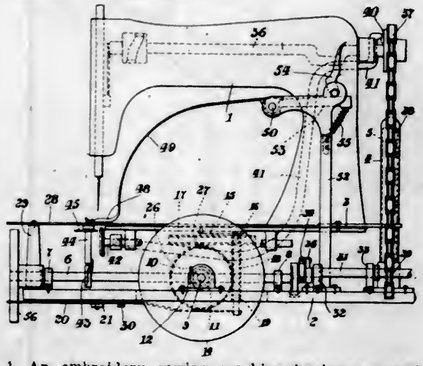
In water softening apparatus including a source of hard water to be treated, a main heater receiving water from said source, a filter receiving water from said main heater, a water softening device receiving water from said filter, means for utilizing the heat of the water in its passage from the filter to the water softening device to initially heat the hard water as the latter is delivered from its source to the main heater, a re-heater below the main heater receiving water from said water softening device, and a connection for conveying heat generated at the reheater to the main heater.

1,471,719. COMBINED HEMMER AND TUCKER. ELLA M. BEADLE, Lyons, N. Y. Filed Sept. 20, 1920. Serial No. 411,639. 4 Claims. (Cl. 112—143.)



2. A combined hemming and tucking attachment for sewing machines comprising a pair of overlapping plates, downward extensions on the overlapping portions of the plates forming work dies, one of said plates being slidably carried in a slot in the downward extension of the other plate with said extensions in adjustably opposed relation, and means adjustably supporting each of said plates.

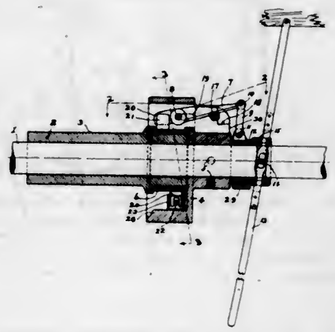
1,471,720. SEWING MACHINE. JOSEPH BINGHAM, Lurgan, Ireland, assignor to William Heney, Belfast, Ireland. Filed July 15, 1921. Serial No. 484,862. 6 Claims. (Cl. 112—158.)



1. An embroidery sewing machine having a movable machine head frame comprising the head, upper arm and

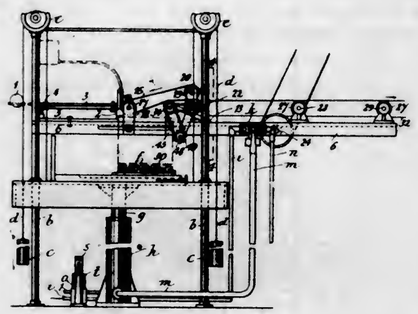
support and means for moving the head frame laterally through an arc of a circle so as to give the desired throw to the needle and means for varying the lateral arcuate movements.

1,471,721. FRICTION-CLUTCH MECHANISM. JULIEN A. BRIED, Oakland, Calif. Filed July 12, 1920. Serial No. 395,500. 2 Claims. (Cl. 192—114.)



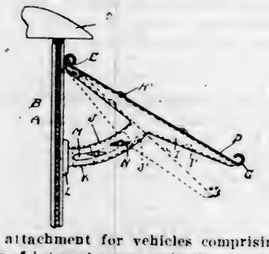
2. In a rotary friction clutch, means for engaging and disengaging the clutch comprising a pressure applying lever pivotally and slidably mounted on the clutch; a lever locking device on the clutch, and means for actuating the pressure applying lever to engage and disengage the clutch and to slide the lever bodily and engage it with the lever locking device.

1,471,722. MACHINE FOR APPLYING ADHESIVE MEDIUM TO ENVELOPES, WRAPPERS, AND THE LIKE. HERBERT CHARLES BROOKS, Clapham, London, England, assignor of one-half to Harold Frank Warbey, Highfield, Esher, Surrey, England. Filed Oct. 4, 1920, Serial No. 414,569. Renewed Feb. 6, 1923. 2 Claims. (Cl. 93—68.)



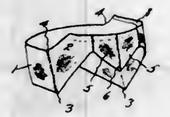
1. The herein described method of applying an adhesive to a pile of paper blanks by means of a shaped gummer which consists in urging the said pile of blanks against the shaped gummer so that they are held thereby, providing for the lateral withdrawal from said gummer of a blank in contact therewith and subjecting said blank whilst held by the gummer to a buckling action in a direction opposite to that in which it is to be withdrawn in such wise that the blank is thereby directly brought into contact with gummed blanks overlapping and being separated only sufficiently to prevent one being fouled by the gum upon another, as set forth.

1,471,723. VISOR ATTACHMENT FOR WINDSHIELDS. PAUL E. DIEDERICH, Detroit, Mich., assignor to Motor Products Corporation, Detroit, Mich., a Corporation of New York. Filed Mar. 26, 1921. Serial No. 455,713. 3 Claims. (Cl. 296—95.)



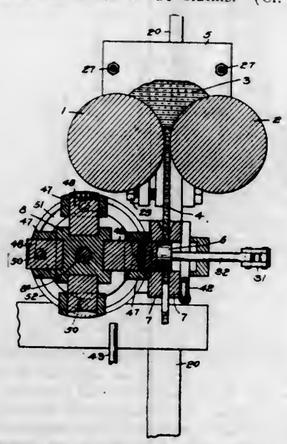
3. A visor attachment for vehicles comprising a visor proper, a pair of integral arms projecting from said visor proper, a pair of brackets mounted upon said vehicle and telescopically engaging said arms, said brackets and said arms forming the sole supporting means for said visor proper, and means for retaining said arms in adjusted position with respect to said brackets.

1,471,724. HEADWEAR. LOUIS H. ENSTEN, Cleveland, Ohio. Filed Feb. 15, 1921. Serial No. 445,146. 10 Claims. (Cl. 2—120.)



1. An article of headwear comprising a narrow band adapted to encircle the head comprising a substantially straight main portion, and an intermediate portion rack-knitted diagonally in two directions, said rack-knitted portion being positioned at the front of the wearer's head so as to bridge his eyes, the junction of said straight portion and of said rack knitted portions forming a pair of angular ear-laps and the edge of said straight portion opposite said ear laps adapted to fit a separately formed crown-part.

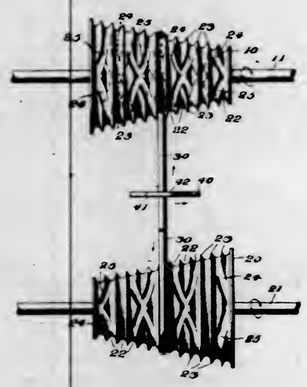
1,471,725. PROCESS AND APPARATUS FOR PRODUCING SPECTACLE BLANKS. FREDERICK GELSTHARP, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Aug. 30, 1920. Serial No. 407,014. 10 Claims. (Cl. 49—1.)



10. Apparatus for producing glass articles, means for generating a sheet of glass continuously in a downward

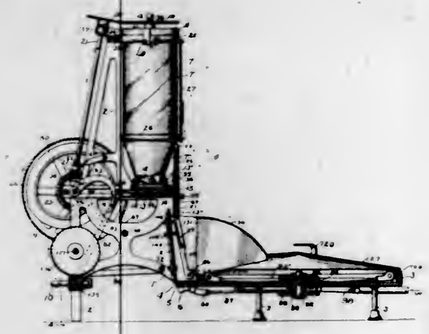
direction, a plunger mounted beneath said means for movement transversely through the sheet, and a drum, mounted for rotation in opposition to the plunger and provided in its periphery with a series of mold recesses adapted to be brought successively into alignment with said plunger to receive the articles, means for continuously operating the rolls and means for intermittently operating the plunger and drum.

1,471,726. CHANGE-SPEED CONE PULLEY. CHARLES L. GINTY, Lockport, N. Y. Filed July 24, 1922. Serial No. 577,117. 7 Claims. (Cl. 64—4.)



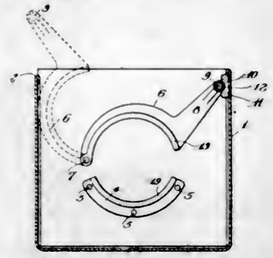
1. A change speed cone pulley having a series of circumferential driving grooves therearound, and spiral switch grooves traversing and in communication with said driving grooves.

1,471,727. CULINARY DEVICE. JOSEPH GOMEZ, Jacksonville, Ill. Filed June 15, 1923. Serial No. 645,630. 17 Claims. (Cl. 99—2.)



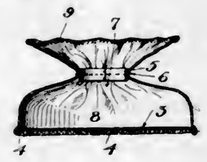
1. A device of the character described comprising, in combination, means formed and adapted to hold a substantial supply of comminuted food material, means to periodically receive, form, compress and transmit approximately uniform portions of the comminuted material from said holding means, and heat applying means to receive the formed portions successively for cooking same.

1,471,728. FILM-ROLL BOX. JOHN S. GREENE, Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I., a Corporation of Rhode Island. Substitute for application Serial No. 347,344, filed Dec. 26, 1919. This application filed June 29, 1921. Serial No. 481,204. 6 Claims. (Cl. 242—71.)



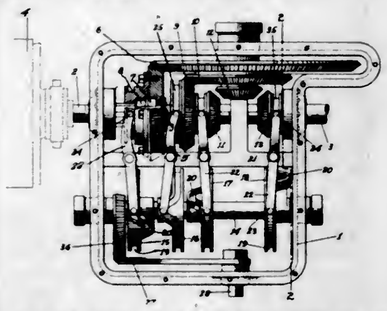
2. The combination with a film roll box having end walls, of split bearings for a film roll mounted wholly on the inner side of each end wall, each bearing comprising a fixed portion and a pivoted portion provided with a handle adapted to swing exteriorly of the box.

1,471,729. POWDER-PUFF HOLDER. VICTOR GUINZBURG, New York, N. Y., assignor to I. B. Kleinert Rubber Company, New York, N. Y., a Corporation of New York. Filed Oct. 11, 1922. Serial No. 593,827. 3 Claims. (Cl. 150—52.)



1. An article of the class described comprising a powder puff holder having a tubular body portion, a flat bottom having its edge secured to one end of said body portion and an elastic contracting member adapted to be secured on one face of the body portion between its ends and adapted to contract said body portion.

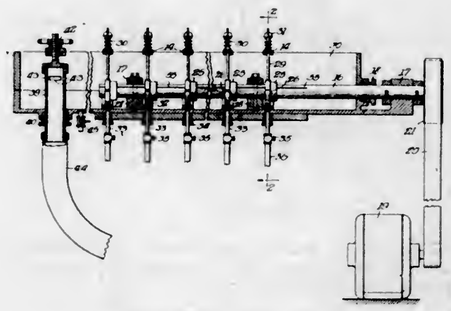
1,471,730. GEAR-SHIFT MECHANISM. JOSEPH J. HASKIN, Stockton, Calif. Filed Apr. 26, 1921. Serial No. 464,623. 8 Claims. (Cl. 74—58.)



1. In a gear shift mechanism having drive and driven shafts and a plurality of gears arranged to be enmeshed to transmit power from the drive to the driven shafts with various speed ratios in the same direction or to reverse the direction of rotation of one shaft relative to the other, a hand lever for shifting said gears, a notched

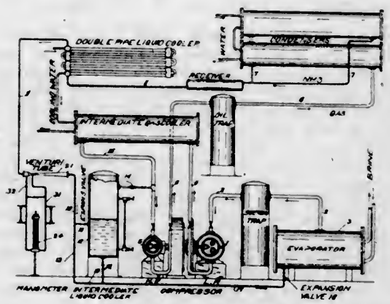
quadrant for said lever to indicate the various gear-shiftings controlled by the movement of said lever, a pin arranged to project across the path of movement of the lever ahead of the reverse-position notch, and a foot pad connected to said pin and arranged to be depressed to withdraw said pin from the path of the lever at will.

1,471,731. COLOR DROPPER. CHARLES H. HORNBECK, Appleton, Wis., assignor to Kimberly-Clark Company, Neenah, Wis., a Corporation of Wisconsin. Filed June 30, 1922. Serial No. 571,936. 8 Claims. (Cl. 92—40.)



1. The combination with means for propelling a web, of a vat disposed above the path of said web, and means for providing an intermittent discharge of fluid from said vat upon said web including a discharge passage leading from said vat, and valve mechanism operating in said vat to control the admission of fluid to said discharge passage.

1,471,732. PROCESS AND APPARATUS FOR MULTIPLE-STAGE COMPRESSION FOR REFRIGERATION. GEORGE A. HORNE, Plainfield, N. J. Filed Mar. 13, 1922. Serial No. 543,450. 16 Claims. (Cl. 62—115.)

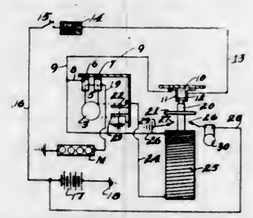


2. The process of refrigeration consisting in partially compressing a refrigerant in its gaseous state, in cooling the partially compressed refrigerant, in finally compressing the cooled partially compressed refrigerant, in condensing the same, and in expanding the condensed refrigerant to the pressure substantially the same as that of the partially compressed refrigerant.

3. In a refrigerating system, the combination of an evaporator, means for compressing a refrigerant, means for condensing said refrigerant, a Venturi meter, and means connected to said Venturi meter for super-cooling said refrigerant to a temperature below the critical temperature of boiling corresponding to the lowest pressure attained by the refrigerant in the Venturi meter whereby evaporation due to reduction in pressure in the Venturi tube is prevented.

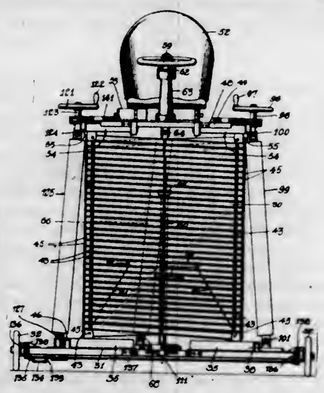
12. In a refrigerating system, the combination with an evaporator, of low pressure and high pressure compressors connected in series with said evaporator, a condenser connected to said high pressure compressor, means for connecting said condenser to said evaporator, and means for varying the displacement volume of each of said compressors whereby the work of compression may be equally divided between said compressors.

1,471,733. THEFT ALARM. CHARLES A. ISBELL, Pasadena, Calif., assignor of one-half to William E. Miller, Los Angeles, Calif. Filed Feb. 5, 1920. Serial No. 356,468. 2 Claims. (Cl. 177—314.)



1. The combination, with an internal combustion engine ignition circuit having a main ignition switch and three additional switches, two of which are in the ignition circuit, of a key-controlled means for alternately opening and closing one of said switches and the third switch, a solenoid in said circuit having a core provided with means for opening the circuit at one of the switches in the ignition circuit when energized, said switch including means for keeping the circuit closed thereat when the solenoid is de-energized, a shunt around the solenoid including the third switch, and means operative by the key-controlled means for moving the solenoid core operated means to circuit-closing position on the movement of the third switch to circuit-closing position.

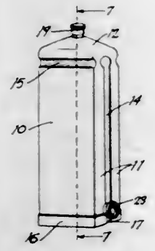
1,471,734. VEHICULAR EXTENSION SUPPORT. PETER N. JANSEN, Philadelphia, Pa. Filed Dec. 24, 1921. Serial No. 524,751. 20 Claims. (Cl. 227—17.)



1. In a device of the character described, the combination, a supporting base, a running gear therebeneath, a platform movable vertically relatively to the supporting base, means operable from the platform to

effect its vertical adjustment, and means operable from said platform in any position of adjustment for steering and propelling said device, said means being extensible and retractable in direct proportion to the adjustment accorded said platform.

1,471,735. CONTAINER FOR TOILET CREAMS AND THE LIKE. WILLIAM B. JAMES, Los Angeles, Calif. Filed June 27, 1921. Serial No. 480,587. 2 Claims. (Cl. 221—60.)



2. A container formed of sheet metal and adapted to receive a collapsible tube and having an aperture in its upper end through which the nipple of the tube may project and having vertical slots in opposite sides and an open lower end into which the slots extend, a shaft fitting in the slots and having a slot to receive the lower end of the collapsible tube, and a cap fitting the lower end of the container and holding the shaft in place, said cap having indented portions to fit in the lower ends of the slots.

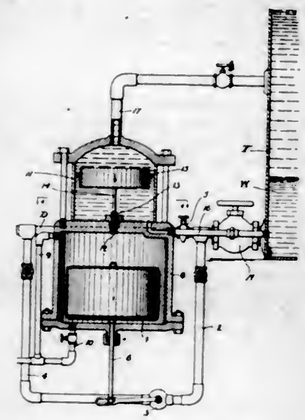
1,471,736. OPERATING MEANS FOR CASEMENT WINDOWS. AXEL JOHNSON, Oakland, Calif. Filed Feb. 1, 1922. Serial No. 533,180. 2 Claims. (Cl. 268—4.)



1. An operating means for a casement window provided with a guide rail longitudinally of which one edge of the window slides, the same comprising an angle plate for disposing with one face parallel with the guide and co-extensive therewith, and with the outer face in a horizontal plane and provided with sprocket openings, a pair of bearing frames carried on the underside of the plate, a sprocket within each bearing frame and one projecting through each opening, a shaft supporting each sprocket, a chain operating over said sprockets and passing through said sprocket openings, whereby one flight operates over one face of said plate, a yieldable take-up for said chain, and an operating connection between the chain and casement.

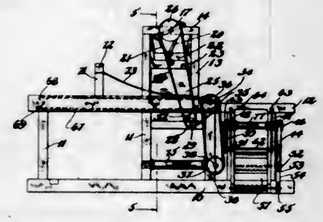
1,471,737. AUTOMATIC WATER DRAIN FOR OIL TANKS. JOHN ADAIR JOLLY, Long Beach, Calif. Filed Jan. 11, 1923. Serial No. 611,983. 6 Claims. (Cl. 210—54.)

1. Apparatus for automatically substantially continuously draining water in tanks containing oil as the water separates from the oil, comprising a water chamber and float operated drain valve therein, and an oil



chamber having float means controlled by variation of water level in the tank for controlling the opening and closing of the drain valve.

1,471,738. BEET TOPPER. BRONISLAW KACZMARSKI, Detroit, Mich. Filed Jan. 12, 1923. Serial No. 612,221. 1 Claim. (Cl. 146—86.)

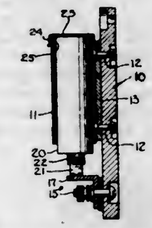


In a beet topper, a crank shaft, a pair of vertically reciprocating knives secured to said shaft to operate upon the rotation of said shaft, a pair of spaced conveyer belts guided longitudinally through the topper adapted to receive the beets to be topped, the inner edges of said belts directly under and parallel to the cutting edges of said knives, a transversal conveyer belt directly under said knives for discharging the cut off tops, a transversal conveyer belt in front of the ends of said pair of conveyer belts, links attached to the frame of the topper, an auxiliary conveyer adapted to be attached to said links to form a continuation of said last named transversal belt for discharging the topped beets, means for simultaneously operating said knives and conveyers to perform their respective functions, and a pair of strong leaf springs adapted to press the beets against said pair of conveyer belts to allow an operation of the knives for removing their tops.

1,471,739. BATTERY HOLDER. MENO KAMMERHOFF, Orange, N. J. Filed Apr. 26, 1920. Serial No. 376,498. 1 Claim. (Cl. 204—29.)

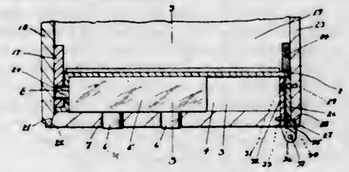
In a battery holder for dry batteries without binding screws, an upright plate of insulating material, members of conducting material arranged in pairs on said plate, means for electrically connecting said members in substantially permanent electrical relation, a plurality of shells mounted on said plate and arranged one over each

of the pairs of said members, a hinged snap cover for each of said shells and adapted when closed with dry batteries in place to bear against the ends of the batteries



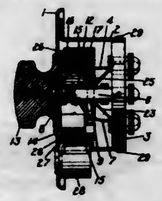
opposite said members and to hold the batteries with their poles in positive contact therewith, the said members serving to support the batteries.

1,471,740. LOCK AND LOCK MOUNTING. EVERETT C. KLINE, Cincinnati, Ohio, assignor to The Laminated Metal Products Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 24, 1921. Serial No. 524,607. 1 Claim. (Cl. 109—12.)



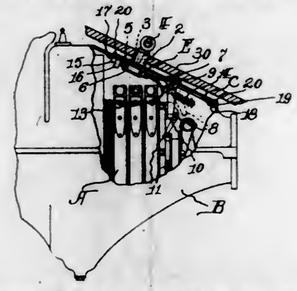
A lock and mounting comprising a box having a mouth, a door having a substantially U shape, the sides or arms of which are grooved, said grooves opening upon one another, and the base or front of the door having a slot, a bar slidably mounted in the grooves in the sides of the door, whereby a chamber is formed within the door, a lock within the chamber to which access may be had thru the slot in the door, hinges mounting the door on the box, and means on the sides of the box adapted to be engaged by the bar and the lock bolt when the door is closed, whereby the lock is precluded from separation from the door, and the bar precludes withdrawal of the hinged end of the door from the mouth in event the hinged connection of the door upon the box is severed.

1,471,741. SWITCH MECHANISM FOR AUTOMOBILES. BATAAN D. KUNKLE, Springfield, Mass., assignor to The Caskey-Dupree Manufacturing Company, a Corporation of Ohio. Filed Apr. 5, 1917, Serial No. 159,897. Renewed July 19, 1922. Serial No. 576,158. 6 Claims. (Cl. 200—4.)



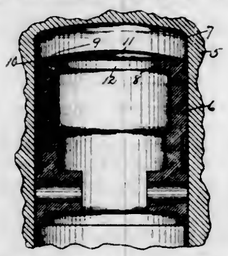
1. In a switching mechanism, the combination with a rotatable switching mechanism and a reciprocable switching mechanism having a plurality of operative positions, said reciprocable mechanism having an intermediate inoperative position, of a single member rigidly connected to said reciprocable mechanism for actuating said mechanisms independently of each other.

1,471,742. AUTOMOBILE LOCK. JOHN J. LANE and JULES H. GROAT, St. Paul, Minn. Filed Sept. 22, 1919. Serial No. 325,426. 9 Claims. (Cl. 70—90.)



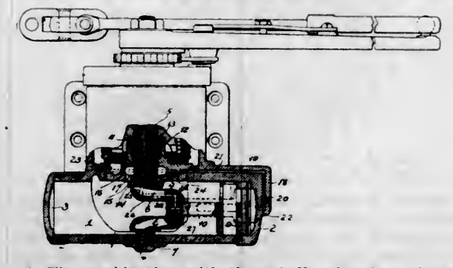
2. An automobile lock in combination with a transmission, including a transmission cover plate, key locking means held in said cover plate, a locking dog adapted to be moved into the path of the clutch or gear set of said transmission and eccentric means connected with said key locking means, said locking means being adapted to operate said dog into or out of locking position.

1,471,743. INTERNAL-COMBUSTION ENGINE. WILLIAM HENRY LEGATE, Hartford, Conn. Filed Jan. 24, 1920. Serial No. 353,669. 6 Claims. (Cl. 74—108.)



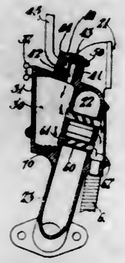
1. The combination in an internal combustion engine having a piston chamber therein with a recessed wall, of a lining originally larger in area than said recess but forced thereinto to secure it therein.

1,471,744. DOOR CHECK AND CLOSER. CHARLES E. LUCKE, New York, N. Y., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed May 6, 1922. Serial No. 559,012. 8 Claims. (Cl. 16—59.)



1. The combination with the spindle of a door closer, said spindle provided with a crank, a spindle bearing, a cylinder, a piston therein, and a pitman connecting said piston with the spindle crank, of a passage-way leading from the cylinder in front of the piston to the spindle bearing in proximity to the spindle crank, whereby, upon the compression stroke of the piston, lubricant will be forced from the cylinder, through said passage-way to said spindle bearing.

1,471,745. INTAKE MANIFOLD. FRED LUNDGREN, Los Angeles, Calif., assignor of one-half to Fred W. Jones, Nashville, Tenn. Filed Jan. 28, 1920. Serial No. 354,652. 1 Claim. (Cl. 123—122.)

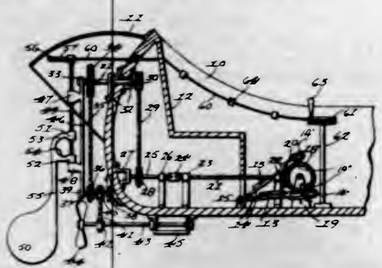


In an intake manifold of the class described, the combination of: a pair of hollow delivery arms; a substantially vertical hollow leg connecting with said arms and integrally formed therewith; integrally formed walls projecting outwardly from the point of joinder of said leg with said arms to provide a recess; a front wall extending across the lower portion of said outwardly projecting walls to form a torch pocket; a cover for said recess; structure providing a discharge chamber on the back of said arms opposite to said recess; heat dispersing tubes extending through said arms and connecting between said recess and said discharge chamber; heat absorption vanes on the interiors of said tubes; a hot gas inlet means leading into said covered recess and a gas outlet means leading from said discharge chamber.

1,471,746. PRINTING INK. WILLIAM J. MCELROY, New York, and JOHN CLARKE, Manhasset, N. Y., assignors, by mesne assignments, to Alchemic Gold Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 2, 1923. Serial No. 622,436. 9 Claims. (Cl. 134—35.)

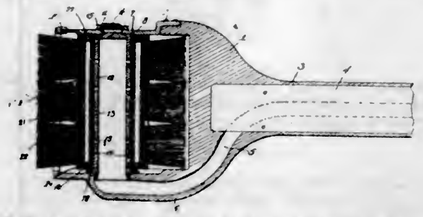
1. A neutral vehicle for pigments for printing ink composed of a neutral binder and a neutral solvent for such binder.

1,471,747. CANOE-PROPELLING DEVICE. STANISLAW MIERZWINSKI, Trenton, N. J. Filed Jan. 21, 1921. Serial No. 438,845. 1 Claim. (Cl. 115—25.)



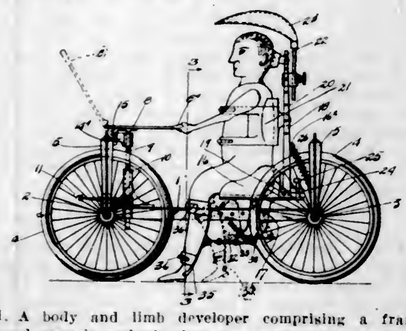
A boat propelling device of the class described comprising a standard in front of a boat seat, a bevel gear journaled to said standard, a pair of crank arms secured to the side faces of said bevel gear, rods secured with their front ends to said cranks, a cross bar connecting the rear ends of said rods, pedals on said rods intermediate the ends thereof, a bevel gear in mesh with said first named bevel gear, a bi-partite horizontal shaft for said second bevel gear, a coupling for both parts of said shaft, another horizontal shaft above said first named horizontal shaft extending out of the boat's stern, sprocket wheels on both horizontal shafts, a chain connecting said sprocket wheels, a short horizontal shaft journaled at the outer side of the boat below said extended shaft, sprocket wheels on said extended shaft and the last named horizontal shaft, a chain guided over said sprocket wheels, a horizontal shaft journaled in a bracket secured to the outer face of the boat's bottom, a propeller at the extreme outer end of said last named horizontal shaft, sprocket wheels on said last named short shaft and the propeller shaft *a*, a chain guided over said sprocket wheels.

1,471,748. ROTARY BRUSH. VICTOR A. MILLER, St. Paul, Minn. Filed July 30, 1921. Serial No. 488,569. 2 Claims. (Cl. 15—24.)



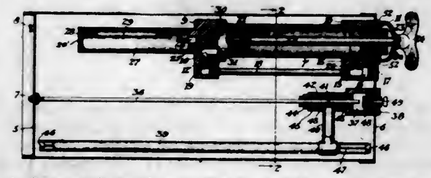
1. In an apparatus of the character described, a frame provided with a supply passage-way, a central distributing sleeve mounted in the frame and having a hollow interior communicating with the passage-way, the said sleeve being provided with perforations throughout its length, a rotary member mounted upon the sleeve and including a plurality of circumferentially spaced blades to receive water passing through the openings in the said distributing sleeve and a brush element rotatably mounted in the frame and connected to the said rotary member at the ends thereof whereby the said brush element will be rotated when the rotary member is rotated.

1,471,749. BODY AND LIMB DEVELOPER. EDWARD R. MONROE, Bay City, Mich. Filed June 26, 1922. Serial No. 570,944. 5 Claims. (Cl. 46—69.)



1. A body and limb developer comprising a frame, ground engaging wheels thereon, an adjustable seat, and body supporting means secured thereto, and leg braces pivotally and resiliently connected to the frame.

1,471,750. FIRE EXTINGUISHER. GEORGE T. PEARSONS, New York, N. Y. Filed Sept. 9, 1916. Serial No. 119,215. 19 Claims. (Cl. 299—96.)

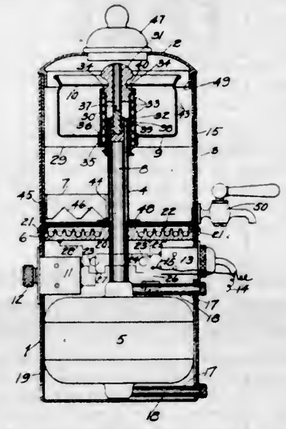


1. In a syringe, the combination of a reservoir to contain a liquid and having a discharge outlet; an air pump in the reservoir having an outlet; a chamber connected to the pump outlet and an outlet tube for said chamber extending into said chamber from the end opposite to its connection with the pump outlet, substantially as and for the purpose specified.

1,471,751. PROCESS OF DECOMPOSING, TRANSPOSING, DISSOLVING, OR RENDERING SOLUBLE DIFFICULTLY-SOLUBLE BODIES. HARRY D. RANKIN, Oakland, Calif., assignor of seven-tenths to Louis Sloss, San Francisco, Calif. Filed June 26, 1918. Serial No. 242,124. 6 Claims. (Cl. 23—13.)

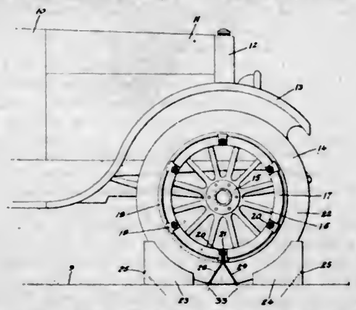
1. The process of decomposing, transforming, dissolving or rendering soluble, heretofore considered practically insoluble substances which consists in heating to redness and subjecting to pressure a mixture of the substance and an alkali.

1,471,752. COFFEE EXTRACTOR. MAX H. RIECKMANN, Holyoke, Mass. Filed Mar. 28, 1923. Serial No. 628,181. 23 Claims. (Cl. 53—3.)



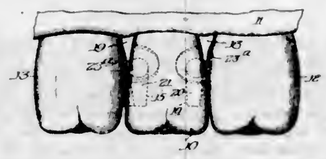
1. In a coffee extractor, an outer receptacle, an inner receptacle, an electric motor within said receptacle, said motor being provided with a shaft, an electric heater for said inner receptacle, also within said outer receptacle and an actuator and a coffee receptacle mounted on said shaft within said inner receptacle.

1,471,753. SHIPPING DEVICE. EDBERT ROGERS, Flint, Mich. Original application filed Mar. 18, 1918, Serial No. 223,045. Divided and this application filed Mar. 30, 1922. Serial No. 548,027. 8 Claims. (Cl. 188—32.)



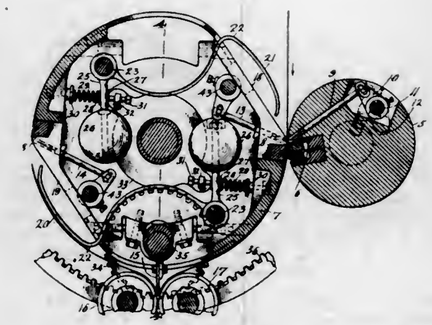
3. In combination with a vehicle provided with wheels, a support therefor, a holding member engaging one of said wheels for preventing vertical movement thereof and having a plurality of members extending downwardly and laterally outwardly therefrom, and means for securing said holding member to said support.

1,471,754. ARTIFICIAL TOOTH WITH ANCHORING MEANS THEREFOR. ALBERT M. ROSENBLUM, Chicago, Ill. Filed Nov. 23, 1922. Serial No. 602,675. 2 Claims. (Cl. 32—12.)



1. In combination, an artificial tooth having vertically formed recesses extending from the base towards the cups in the sides thereof, and anchoring means for the said tooth comprising a vertically extending central post adapted to be inserted in said recesses, a flat side member presenting a flat vertical face secured to the side of the said post and a widened base portion adapted to fit into a complementary formed recess in the base of the said tooth.

1,471,755. FOLDING MECHANISM. LOUIS A. SCHMIDT, Brooklyn, N. Y., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed May 24, 1921. Serial No. 472,176. 24 Claims. (Cl. 270—77.)

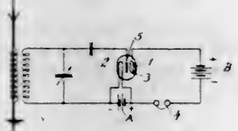


1. The combination of means for advancing sheets at different speeds, folding mechanism, and means for effecting a relative change between the sheet path and folding mechanism to cause the fold to take place at the same point in successive sheets irrespective of their speed.

1,471,756. WAVE SIGNALING SYSTEM. WALTER B. SCHULTE, Madison, Wis., assignor to Burgess Battery Company, a Corporation of Wisconsin. Filed Oct. 17, 1919. Serial No. 331,411. 8 Claims. (Cl. 250—27.)

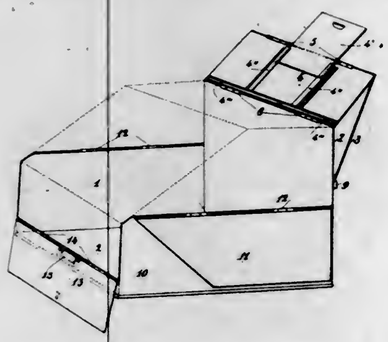
1. In a wave signaling system utilizing a vacuum tube and including electric circuits each containing a source of electric energy, said circuits requiring freedom from low frequency current-disturbances originating from within each circuit, the combination of a multi-electrode vacuum tube through which a thermionic discharge is maintained by reason of its connection in one of said circuits and dry batteries as the said sources, said batteries each comprising a case, a nest fitted therein, a set of vertical cells arranged in the nest and spaced at their lower ends from the bottom

of the case, a water-repellant wrapper completely encasing each cell, and a seal anchoring the cells in said nest and the wrappers to said cells.



7. In a wave signaling system utilizing a three-electrode vacuum tube including a filament circuit and a filament-plate circuit containing a source of electrical energy, said circuits requiring freedom from low frequency current-disturbances originating from within said circuits, the combination of a three-electrode tube through which a thermionic discharge is maintained by reason of its connection in said filament and plate-filament circuits, and a dry battery as the said source for said filament-plate circuit, said battery comprising a case; a nest fitted therein, a set of vertical cells arranged in the nest and spaced at their lower ends from the bottom of the case, and a water-repellent wrapper completely encasing each cell, said cells connected electrically in series and grouped to occupy an area of least perimeter and to have a distributed capacity greater than that of the cells in a straight line series.

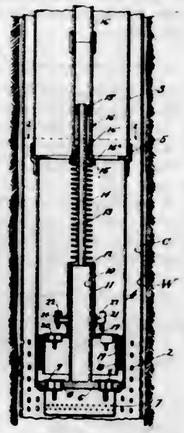
1,471,757. CASING FOR TYPEWRITING MACHINES. ANDRÉ GEORGES THIRIOT, Chalons-sur-Marne, France. Filed Mar. 31, 1922. Serial No. 548,364. 4 Claims. (Cl. 45—52.)



1. A casing for typewriting machines having a base plate on which the typewriter is secured and a cover formed in two parts hinged together and to the rear of the casing, the forward part of said cover constituting an inclined desk when the casing is closed and means upon the back of the casing for supporting the forward part when folded down backwardly so that it may constitute a support for the rear part when swung back to form a desk for use when the casing is open and the typewriter exposed.

1,471,758. APPARATUS FOR EJECTING FLUIDS FROM WELLS. RALPH H. TUCKER, Los Angeles, Calif. Filed June 1, 1922. Serial No. 565,132. 17 Claims. (Cl. 103—5.)

1. A pneumatically operated plunger pump consisting of a stationary pump tube having a foot section provided with inlet valves in its lower portion, a stationary compressed air column fixed to the foot section, an air pressure pipe arranged in the pump tube, a piston-like plunger operatively fitting the foot section and having communication with the air pipe whereby compressed air may be delivered from the pipe into said column whereby its pressure is operative as a piston upon the plunger to lift the same, and automatic air exhaust-valves carried by the plunger.

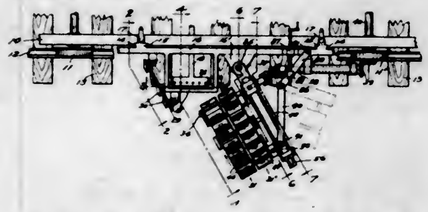


1,471,759. LOCKING TUBE FOR LOOSE-LEAF LEDGERS. HARLEY A. TULLIS, Ocean Park, Calif., assignor of one-half to John H. Kemker and one-half to William J. Mee, both of Los Angeles, Calif. Filed Oct. 11, 1920. Serial No. 416,160. 4 Claims. (Cl. 129—12.)



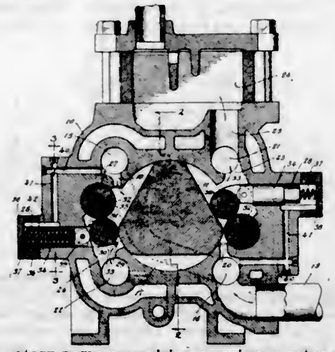
1. The combination with a supporting pin for loose leaf constructions of a locking tube having an aperture through which said pin extends, a spring member arranged within said tube one end of which spring directly engages said pin for locking the tube, and pivoted means wholly within said tube for disengaging said spring from said pin.

1,471,760. RAILWAY-TRACK BALLAST GRADING AND SURFACING MACHINE. PASQUALE URSINO, Seattle, Wash. Filed Dec. 2, 1922. Serial No. 604,566. 10 Claims. (Cl. 37—105.)



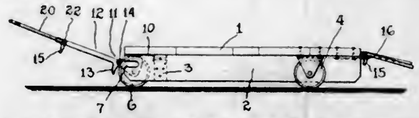
1. In apparatus of the character described, a car, a frame extending laterally from one side thereof and hingedly connected with the car for angular adjustments with respect thereto, means for adjusting and securing said frame in predetermined angular relations with respect to the car, ballast grading devices carried by said frame and comprising a conveyor provided with scraper attachments, a series of surfacing blades provided in said frame, said conveyor and blades being connected to the frame for angular adjustments with respect to a horizontal plane, and means for effecting such angular adjustments of the conveyor and the blades simultaneously.

1,471,761. ROTARY PUMP. HERMAN A. WEIDENBACH, Buffalo, N. Y. Filed Feb. 4, 1922. Serial No. 534,139. 12 Claims. (Cl. 103—123.)



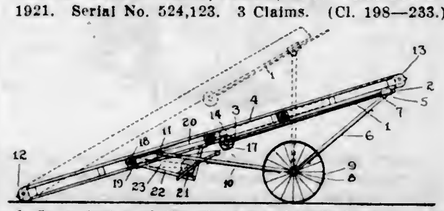
1. A rotary pump comprising a casing, a rotor arranged within the casing and provided with working faces, a roller valve mounted within the casing, and a plunger for holding the valve in operative relation with the rotor only when the rotor is at rest.

1,471,762. TRUCK. JERE L. WENTZ, Passaic, N. J. Filed Dec. 22, 1921. Serial No. 524,122. 7 Claims. (Cl. 280—88.)



1. In a device of the character described, the combination of a truck, traction wheels thereon, a tongue secured to the truck and having a brake section adapted to normally engage a traction wheel and a seat in the truck to receive the tongue and to hold the same in frictional engagement with the wheel.

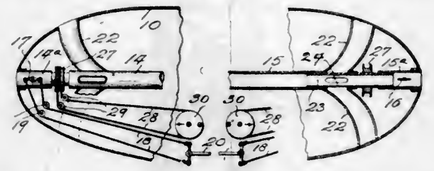
1,471,763. ELEVATING AND POSITIONING MACHINE. JERE L. WENTZ, Passaic, N. J. Filed Dec. 22, 1921. Serial No. 524,123. 3 Claims. (Cl. 198—233.)



1. In a device of the character described, the combination of a conveyor body, a rotatable screw shaft thereon, a bearing block carried on the screw shaft, traction wheels, a strut between the bearing block and the traction wheels, and means for rotating the screw shaft whereby the angle of inclination of the conveyor body will be variably adjusted.

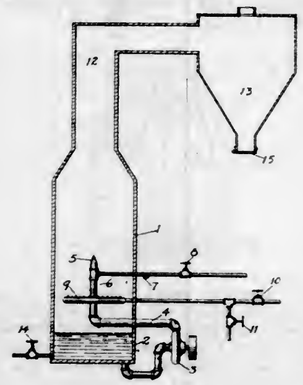
1,471,764. DIRIGIBLE-BALLOON DRIVE AND CONTROL. WELLINGTON B. WHEELER, Los Angeles, Calif., assignor of one-half to Florence E. Gaines, Los Angeles, Calif. Filed Oct. 31, 1921. Serial No. 511,667. 2 Claims. (Cl. 244—10.)

1. A dirigible balloon having a longitudinal air conduit therethrough, said conduit having adjacent each end a plurality of laterally directed branches leading to the atmosphere; single parted tubular valves co-axial with said conduit adjacent each end thereof, said valves being rotatably adapted to establish communication between



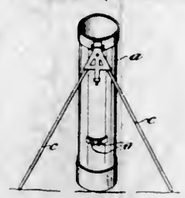
said conduit and any one of said branches at their respective ends of said conduit; and means for maintaining a powerful air current through said conduit and its communicating branches.

1,471,765. EVAPORATING PROCESS AND APPARATUS. ROBERT E. WILSON, Cambridge, Mass. Filed July 18, 1922. Serial No. 575,855. 22 Claims. (Cl. 23—1.)



15. An apparatus for recovering solids dispersed in liquids comprising a heating chamber, a sprayer within said chamber, a liquid circulator communicating with said sprayer and the lower part of said chamber and a heater within said chamber in close proximity to and below said sprayer.

1,471,766. STAND FOR USE IN COMBINATION WITH A GOLF BAG OR THE LIKE. JAMES HENRY WOLFE, Calgary, Alberta, Canada. Filed May 20, 1922. Serial No. 562,513. 3 Claims. (Cl. 150—1.5.)



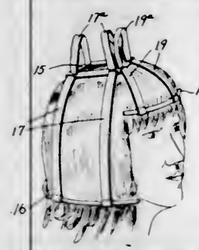
1. In combination with a golf bag or the like with longitudinal supports, of a hinge bracketed to the outside of the mouth of the said bag, a pair of legs pivoted upon a bracket, which bracket is mounted upon the said hinge, a clip member securing the hinged bracket to hold the base of the legs away from the bag, means for spreading the said legs and means for securing the legs when closed in a position adjacent the bag, all as and for the purposes described.

1,471,767. HEADLIGHT FOR VEHICLES. WILLIAM H. WOOD, Cleveland, Ohio. Filed Oct. 6, 1920. Serial No. 415,021. 19 Claims. (Cl. 240—41.)



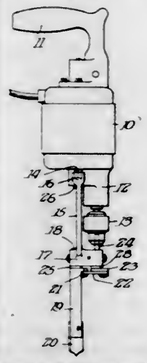
1. A reflector body having a pair of upper and lower surfaces of revolution facing each other on opposite sides of the lamp axis, the lateral margins of said surfaces being spaced apart by unequal distances and connected by interposed surfaces of revolution of smaller curvature.

1,471,768. HAIR-TRIMMING GAUGE. WILLIAM A. WRIGHT, Lompoc, Calif. Filed Sept. 15, 1922. Serial No. 588,424. 4 Claims. (Cl. 132—45.)



1. A hair trimming gauge comprising a pair of curved rods, a plate adapted to engage the crown of the head, and flexible members for suspending the rods from the plate, said plate being formed with slots to provide friction bars for adjustably connecting the flexible members to said plate.

1,471,769. VALVE GRINDER. CHESTER H. BEACH, Racine, Wis., assignor to Wisconsin Electric Company, a Corporation of Wisconsin. Filed Nov. 6, 1920. Serial No. 422,323. 11 Claims. (Cl. 51—29.)



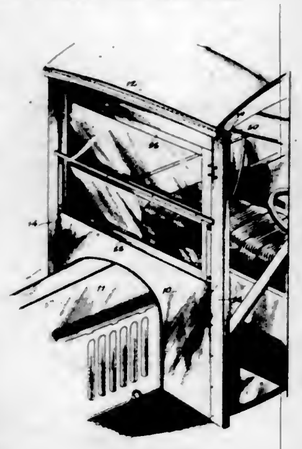
1. The combination with an electric motor comprising a complete unitary structure, of a chuck secured to the motor shaft, a valve grinding attachment comprising a rotatable part and a stationary part, said rotatable part being removably secured to said chuck and said stationary part having means cooperating with said motor to prevent rotation thereof.

1,471,770. LOCKING MEANS FOR ACCUMULATOR CONTROLS. FREDERICK W. BERNAU, Newark, N. J., assignor to Ellis Adding Typewriter Company, Newark, N. J., a Corporation of New Jersey. Filed June 17, 1922. Serial No. 568,949. 11 Claims. (Cl. 235—130.)



1. In an adding and subtracting mechanism, the combination with accumulator wheels, or two controlling mechanisms, one for addition and the other for subtraction, a settable selector adapted for rendering one of said controlling mechanisms inoperative when the other one is operative, and means separate from said settable selector for positively locking said settable selector in its respective positions.

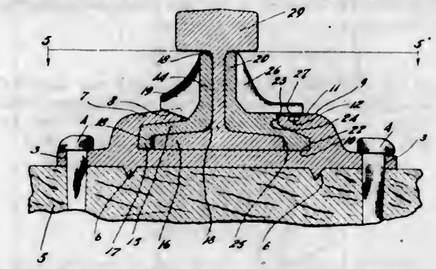
1,471,771. METAL FRONT FOR AUTOMOBILE AND TRUCK BODIES. EMILE BRIDGEFORD BOURLIER, Louisville, Ky. Filed Mar. 14, 1923. Serial No. 625,082. 1 Claim. (Cl. 296—102.)



A metal front for automobile and truck tops including side uprights rigidly connected at their upper ends, an apron extending between and connecting the lower portions of said uprights and forming with the latter and their upper connection a sash receiving space, said side uprights being of channel form and opening inwardly toward one another and said apron having an offset portion along its upper edge extending across the channels of the uprights and also forming a rest for a sash disposed within said space.

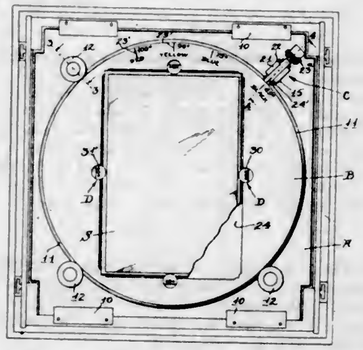
1,471,772. RAIL CHAIR. CHARLES F. BOWE, Canton, Ohio, assignor of forty-eight one-hundredths to James M. Wilson, Canton, Ohio. Filed Apr. 27, 1923. Serial No. 635,038. 5 Claims. (Cl. 238—208.)

1. A rail chair including a base member having an overlying straight flange at one side and an overlying cuneal flange at the other side, said base member being adapted to support the base flange of a rail, a straight fish plate member adapted to be located between the straight flange and the adjacent side of the rail, a cuneal fish plate member adapted to be wedged between the



cuneal flange and the adjacent side of the rail, the straight flange having a notch, and a lug upon the straight fish plate member for engagement therewith.

1,471,773. SCREEN HOLDER. HERBERT NELSON BOWEN, Lakeview, Minn. Filed Nov. 14, 1921. Serial No. 514,877. 4 Claims. (Cl. 95—81.)



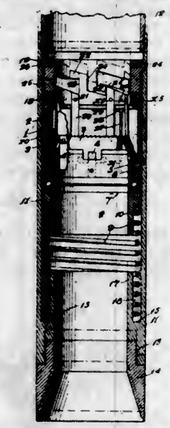
1. In a device of the class described, an angularly adjustable circular holder formed with a screen receiving opening therein, a mounting for said holder applicable to a camera and arranged to avoid obstructinga the opening in said holder, said mounting including a plurality of combination supporting and retaining rollers engaging the margin of said holder and means for locking the holder in various angular positions, said rollers and holder locking means being confined within limits at the rear of a plane closely paralleling the face of said holder.

1,471,774. RETORT VOLATILIZATION OF ZINC. GEORGE S. BROOKS, Gary, Ind. Filed Feb. 27, 1922. Serial No. 539,456. 3 Claims. (Cl. 75—153.)

1. A method of handling zinc in effecting the retort volatilization thereof which consists in initially forming the zinc in plates, mechanically reducing the plates into strips and feeding said mechanically formed strips of zinc into a volatilizing retrot containing a molten body of zinc to replace zinc volatilized therefrom.

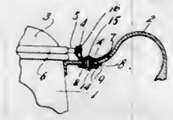
1,471,775. RELEASING DEVICE FOR WELL TOOLS. CLAUDE E. BROWN, Santa Ana, Calif. Filed June 8, 1922. Serial No. 566,785. 10 Claims. (Cl. 294—90.)

1. In a device of the character set forth, three superposed members adapted for rotating and axial movement relative to each other, and for interlocking and unlocking alternately to prevent and allow relative axial movement; the lower member being temporarily connected with the middle member; dogs carried by the lower member to engage a pipe; resilient means carried by the middle member and adapted to hold the dogs alternately in pipe engaging and pipe freeing position; yielding means subject to said resilient means and



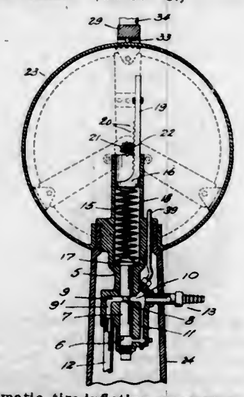
adapted to move the dogs past said resilient means when the members are sufficiently separated to allow the dogs and said resilient means to escape each other.

1,471,776. UTENSIL HINGE. CHARLES T. CARLSON, Canton, Ohio. Filed Mar. 1, 1923. Serial No. 622,151. 3 Claims. (Cl. 53—3.)



1. In combination with a utensil having a handle and a lid, a hinge bracket comprising an extension bent back upon itself forming a tubular knuckle portion, ears upon the bracket bent around the handle, a rivet extended through the bracket and extension, and through the handle and ears and a hinge pintle fixed to the lid and journaled in said knuckle portion.

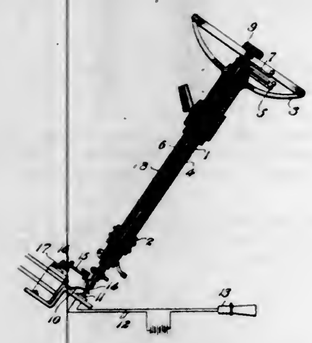
1,471,777. PNEUMATIC-TIRE-INFLATING APPARATUS. FRANK N. COOLEY and GEORGE R. COOLEY, Seattle, Wash.; said George R. Cooley assignor to said Frank N. Cooley. Filed May 8, 1922. Serial No. 559,138. 4 Claims. (Cl. 50—8.)



1. In pneumatic tire-inflating apparatus, the combination of a pressure-reducing valve, a casing for said valve and provided with a supply port and a discharge port, a

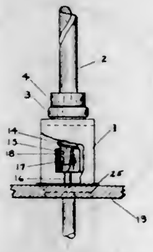
by-pass communicatively connecting said discharge port with the casing bore below said valve, a scale of pressure indicating marks, a plunger, a spring interposed between said plunger and the valve for yieldingly retaining the latter in position to afford a passage between said ports, a rack rigid with said plunger, a shaft, a pinion mounted on the shaft and engaging the rack, an arm connected to said shaft for regulating said spring through the medium of the rack and pinion, and a pointer carried by said arm and arranged to cooperate with the scale for indicating the positioning of the arm to effect predetermined adjustments of the spring.

1,471,778. COMBINED LIGHT AND HORN SWITCH. FRANK T. COPE, Alliance, Ohio. Filed Oct. 5, 1920. Serial No. 414,794. 2 Claims. (Cl. 200—59.)



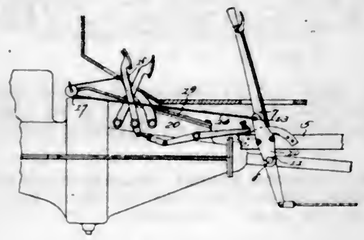
1. In combination with a hollow steering column a rod slidably and rotatably mounted therein, a push button arranged to be engaged by the lower end of the rod when the rod is depressed, a rotatable switch member spaced from one side of the rod and held against axial movement, arms fixed upon the rod and rotatable switch member, and a link loosely connecting said arms whereby the rod may be depressed without moving the switch member, the switch member being rotated by the rotation of the rod.

1,471,779. VALVE-GRINDING APPARATUS. CHARLES J. DRIGANTI, Cambridge, Mass., assignor of one-half to Cearse Gardini, Somerville, Mass. Filed Oct. 26, 1921. Serial No. 510,586. 1 Claim. (Cl. 51—29.)



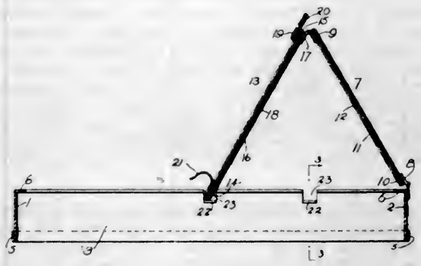
In a valve grinding device, the combination of a frame, a shaft provided with a longitudinal slot near the lower end and rotatably mounted therein, means operable to cause rotation of said shaft, means associated with said shaft for rotating a valve to be ground, a screw passing through the means associated with the shaft into said slot for connecting the shaft and said last named means together, and a spring located on the shaft between the frame and said means associated with the shaft for exerting constant pressure on the said means independently of any pressure exerted on the shaft.

1,471,780. AUTOMOBILE BRAKE. VINCENT MARTIRE, SEBASTIANO DEFRANCISCO, LIBORIO MESSINO, and NICODEMUS LOMBARDO, Gloversville, N. Y. Filed Dec. 29, 1922. Serial No. 609,641. 1 Claim. (Cl. 74—39.)



The herein described attachment for automobiles, the combination with an emergency brake lever and a transmission brake lever, a brake shaft on which the emergency brake lever is mounted, a plate having a recess in its end forming a seat for the said shaft, means for securing the plate to the emergency brake lever, a flexible member connected to the said plate and to the transmission brake lever, and a guide engaged by the flexible member beyond the transmission brake lever.

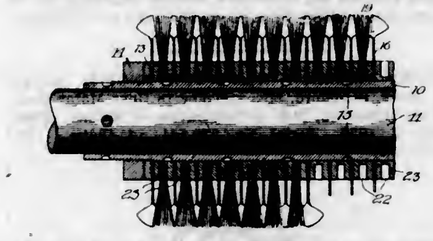
1,471,781. DISPLAY COVER FOR CONTAINERS. FREDERICK EAGLE, Brooklyn, N. Y., assignor to Empire Biscuit Co., Brooklyn, N. Y., a Corporation of New York. Filed Nov. 15, 1922. Serial No. 601,011. 8 Claims. (Cl. 217—58.)



1. A display cover for a container comprising a supporting frame for placement on the container, a cover portion hinged to the supporting frame, and a second cover portion hinged to the first cover portion, one of the cover portions being transparent.

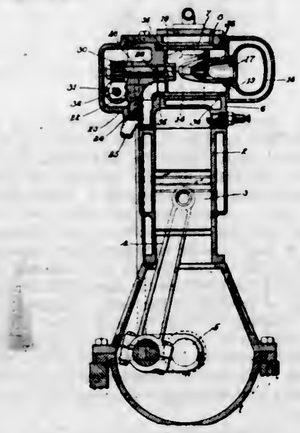
1,471,782. ROTARY BRUSH. GEORGE F. ECKART, Covington, Ky., assignor of one-half to John Addison, Chicago, Ill. Filed May 17, 1920. Serial No. 381,911. 7 Claims. (Cl. 121—57.)

7. In a rotary brush, a plurality of sheet metal brush elements having flat bodies and openings therein, a spacer between each pair of adjacent elements, a sleeve passing through said elements and spacers, each element having a series of radial fingers bent at right angles to the body of said element, each finger terminating in a spade-like tip, the tips of one element overlapping the tips of the



adjacent element, and means for clamping said elements longitudinally of the sleeve, whereby a notched space is formed between the tips of adjacent elements.

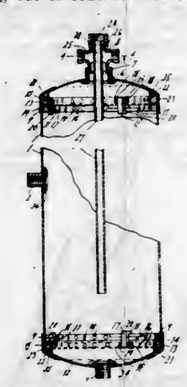
1,471,783. INTERNAL-COMBUSTION ENGINE. FRANK M. EMERY, Kennebunk, Me., assignor to Gove Motor Company, Biddeford, Me., a Corporation of Maine. Filed July 28, 1921. Serial No. 488,186. 6 Claims. (Cl. 123—190.)



1. In an internal combustion engine, the combination of a plurality of cylinders, a piston in each cylinder, a crank shaft connected with said pistons and driven thereby, a valve housing mounted immediately above each cylinder and having a valve chamber therein, a valve mounted in each of said chambers to rotate about an axis transverse to the axes of said cylinders and shaft, two ports leading from the opposite sides of each chamber to its respective cylinder, each of said valves having two exhaust passages therein and having two inlet passages leading from the peripheral surface of the valve to one end thereof, a block bearing against the latter end of each valve, said block having a fuel inlet passage therein and having a groove opening into said fuel inlet passage and communicating with the outer ends of said inlet passages while each of the latter passages rotates through an angle of more than 180°, and mechanism for rotating said valves.

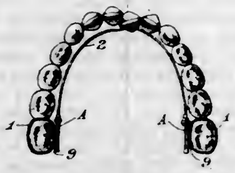
1,471,784. HOT-WATER BOILER. FRANK ENGELHARD, FREDERICK H. ENGELHARD, and WILLIAM H. ENGELHARD, Springfield, Mass.; said Frederick H. Engelhard and said William A. Engelhard executors of said Frank Engelhard, deceased. Filed Nov. 15, 1921. Serial No. 515,199. 15 Claims. (Cl. 126—361.)

1. As an improved article of manufacture, a hot-water boiler comprising a body having interior rings affixed thereto, and end units having exterior rings which are affixed thereto and receivable in said body in contiguity with said body rings, and secured to the latter, said end-unit rings being out of contact with said body rings.



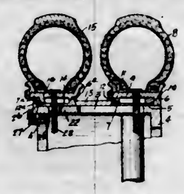
12. The combination, in a hot-water boiler, with a tank provided on top with a nipple, of a fitting having vertical and horizontal passages therethrough, and provided with an internal flange above said horizontal passages, means to secure said fitting to said nipple and to permit the former to be adjusted on the latter and a pipe having a flange to rest on said first-named flange, said pipe extending downwardly into said tank.

1,471,785. ORTHODONTIC APPLIANCE. ADELBERT FERNALD, Boston, Mass. Filed June 24, 1922. Serial No. 570,596. 12 Claims. (Cl. 32—19.)



1. In a lock device for orthodontic dental work, the combination with a regulating wire, of a base member adapted to be applied to a tooth encircling band and open at one side to receive the regulating wire by a sidewise movement thereof, and an adjustable member mounted upon the wire and carrying means to effect interlocking engagement with a side wall at one end of the base member during the adjusting movement along the regulating wire whereby to prevent accidental movement of the adjustable member or displacement of the regulating wire from the base member.

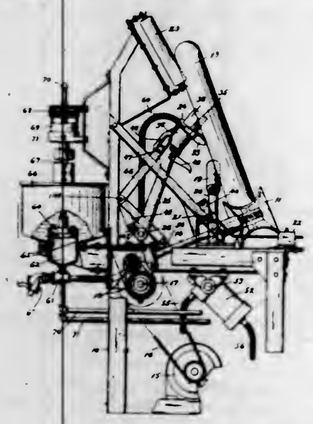
1,471,786. AUTO WHEEL. OLIVE R. FULLER, Los Angeles, Calif. Filed Dec. 22, 1920. Serial No. 432,609. 5 Claims. (Cl. 301—13.)



5. In combination, a wheel rim, a ring removably mounted on the wheel rim, coacting means on the rim and ring for securing the ring in a predetermined position on the rim, said means comprising lugs and tongues

formed on the ring and slots and openings in the wheel rim, said ring having a beveled outer edge and a beaded inner edge, a demountable tire carrying rim embracing the ring and having ribs one of which contacts with one edge of the ring, and a wedge ring interposed between the other beveled rib and ring edge for the purpose described.

1,471,787. TIRE-PAINTING MACHINE. JOHN R. GAMMETER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Sept. 7, 1921. Serial No. 499,059. 16 Claims. (Cl. 91—44.)

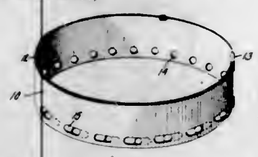


1. In a machine of the character described, the combination of means for supporting a pneumatic tire casing, a spreader having an entering position lengthwise of the tire trough and a spreading position crosswise thereof, and means for projecting said spreader into and retracting it from the tire casing and for turning it from entering to spreading position and vice versa, said means being adapted to effect such turning movements in determinate relation to the projecting and retracting movements.

3. In a machine of the character described, the combination of means for rotatably supporting a tire casing in an upright, inclined position, and a spreader adapted to operate between the edges of the casing substantially at the lowest point thereof.

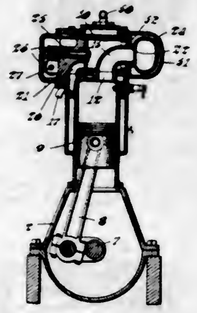
11. In a tire-painting machine, the combination of means for rotatably supporting a tire casing in an inclined upright position, a carrier arm pivoted to swing in a vertical plane, and a lubricant injector carried by said arm and movable thereby into an operative location in the lower sector of the casing.

1,471,788. GAS-BURNER ATTACHMENT. WILLIAM R. GARDNER, New York, N. Y., assignor to Independent Gasaver Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 6, 1921. Serial No. 490,374. 1 Claim. (Cl. 126—215.)



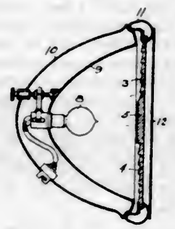
A gas burner attachment comprising a ring formed of a single flexible metallic band or strip having integral ears at the end portions and on opposite edges to overlap the adjacent part of the band and fix the size of the ring, said band having air holes through the middle portion and near the lower edge thereof, and registering slots near the end portions and lower part, whereby said slots can be brought into registry when the band ends are overlapped.

1,471,789. INTERNAL-COMBUSTION ENGINE. HENRY H. GOVE, Biddeford, Me., assignor to Gove Motor Company, Biddeford, Me., a Corporation of Maine. Filed May 5, 1920. Serial No. 379,164. 1 Claim. (Cl. 123—80.)



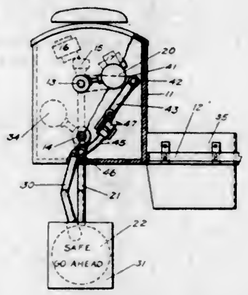
An internal combustion engine comprising, in combination, an upright cylinder, a piston working in said cylinder, a crank shaft driven by said piston, a rotary valve mounted centrally of said cylinder at the end thereof and extending horizontally in a direction transverse to said shaft, a housing in which said valve rotates, a port leading from the upper end of said cylinder into the chamber in said housing in which said valve rotates and opening into the lower part of said chamber at one side of and behind the lower center thereof with reference to the direction of rotation of the valve, compression bars set into said housing both above and below said port, means for pressing said bars against the peripheral surface of the valve, means for conducting the fuel mixture to one end of said valve, and an exhaust conduit into which the burnt gases are discharged through the other end of said valve.

1,471,790. METHOD OF FOCUSING AND DIRECTING HEADLIGHTS. LARS O. GRONDAHL, Pittsburgh, Pa. Filed Dec. 13, 1920. Serial No. 430,411. 14 Claims. (Cl. 88—14.)



1. The method of adjusting a headlight provided with a lens having a light-modifying area and also an adjusting area, that comprises placing in front of said lens an opaque screen leaving the said adjusting area exposed, manipulating the headlight until the beam of light passing through the said adjusting area presents a predetermined and clearly visible appearance and then removing the said screen.

1,471,791. THREE-ASPECT SIGNAL. FORD W. HARRIS, Los Angeles, Calif. Filed Jan. 3, 1920. Serial No. 349,312. 10 Claims. (Cl. 246—128.)

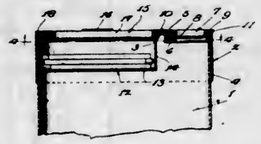


1. In a signal, the combination of a target member; a mask member; restraining means holding said members in such a position that said mask obscures said target; and means operable upon the release of said restraining means for moving one of said members so that said mask no longer obscures said target.

1,471,792. PROCESS FOR APPLYING VITREOUS AND WATERPROOFING COATING TO BRICK AND BURNT-CLAY ARTICLES. JOSEPH H. HINES, Philadelphia, Pa. Filed Mar. 16, 1922. Serial No. 544,334. 1 Claim. (Cl. 91—72.)

A process for applying vitreous and water-proofing coating to certain of the surfaces of burnt clay articles, consisting in first coating the surfaces of the articles which are not to be coated with the vitreous and water-proofing coating, with clay or kaolin, then baking the articles in a furnace to approximately a red heat, then withdrawing the articles from the furnace, then sprinkling powdered vitreous and water-proofing compound upon the surfaces of the articles which are not coated with the clay or kaolin, and allowing the heat of the articles to melt or fuse the powdered vitreous and water-proofing compound and permit it to spread over and adhere to the surfaces of the articles which are not coated with the clay or kaolin, then allowing the articles to cool, and finally removing the clay or kaolin from the same.

1,471,793. CARBIDE CONTAINER. ELI ISRAEL, Wilkes-Barre, Pa. Filed Feb. 16, 1923. Serial No. 619,453. 3 Claims. (Cl. 206—38.)



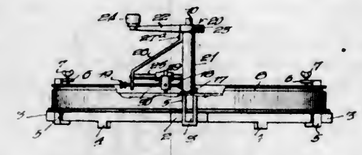
1. A container comprising a body having an open top, a closure for the said top of the body having a depending marginal flange designed to fit about the upper edge portions of the walls of the body, the closure having a pouring opening therein and provided with a flange surrounding said opening and, in the applied position of the closure engaging the inner sides of the walls of the body at the open top thereof and relatively bracing said walls against inward displacement, and a closure for the said pouring opening.

1,471,794. APPARATUS FOR OBTAINING PRACTICE IN GOLF OR OTHER GAMES OR PHYSICAL EXERCISES. CHARLES LEVEN, London, England. Filed Oct. 17, 1921. Serial No. 508,122. 5 Claims. (Cl. 265—21.)



1. A swingable game piece comprising a handle and a heavy head, spring responsive means associated with the head and actuatable thereby under centrifugal force during the swinging of the game piece and means to register after the stroke the power or force incident to the swing.

1,471,795. APPARATUS FOR TRUING HUB-FLANGE SEATS. WILLIAM L. MANTHA, Bayport, N. Y. Filed May 2, 1922. Serial No. 558,036. 2 Claims. (Cl. 144—2.)



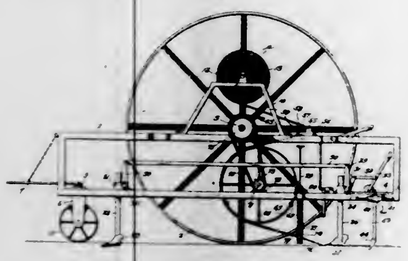
1. In an apparatus of the class described, the combination with a frame, of a spindle extending axially of said frame and provided near its lower end with a hub portion resting upon said frame, said spindle provided with a portion extending through said frame, a spur plate attached to said hub portion, a sleeve provided with a spur resting on said hub portion and engaging said spur plate, a hollow body on said spindle and engaging said sleeve, said hollow body provided with an operating device including an adjusting screw having a spur wheel, and said spur wheel adapted to engage the spur of said sleeve.

1,471,796. MACHINE FOR LAYING MULCHES. NORMAN B. MCGUIRE, Wahiawa, Oahu, and ANDREW GUILD, Honolulu, Hawaii. Filed July 9, 1923. Serial No. 650,476. 16 Claims. (Cl. 97—1.)

1. A machine for laying mulches in strips and covering the lateral edges with soil, comprising means cooperating with the laying means for marking the mulches at points disposed at regular intervals where the planting is to be effected.

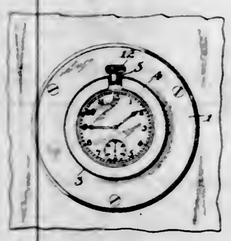
12. A mulch laying machine comprising a wheeled frame, plows at the front end rear of the frame for forming parallel furrows to receive the edges of a mulch-

ing strip and turning the soil from the furrows over and onto said edges respectively, means for supporting a roll of mulching material rotatably on said frame, feeding means operated by the movement of the wheeled frame for unwinding the material from the roll, a drum journaled on the frame and driven from the traction wheel to receive and guide the material from the feed rollers, vertically adjustable guide rolls to the rear of the drum for directing the material onto the surface of the soil, and means on the drum for marking the planting areas on the strip.



15. A machine for laying mulches comprising a wheeled frame, means for supporting a roll of mulching material thereon, means for feeding and spreading the material on the ground in a predetermined strip or row, means for securing the lateral edges of the laid strip to the adjacent soil, and means for marking the surface of the soil with a guide index for the succeeding row or strip.

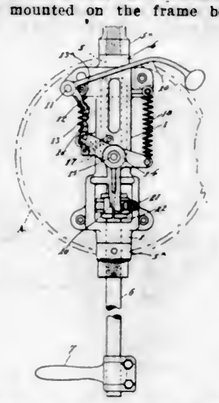
1,471,797. AUTOMOBILE CLOCK FRAME. CORTEZ MERRILL and CHARLES M. WEGNER, Oelwein, Iowa. Filed Nov. 25, 1922. Serial No. 603,321. 1 Claim. (Cl. 58—56.)



A device of the character described comprising a frame adapted to be secured to a panel or other vertical surface and having a body projecting therefrom adapted to receive a time piece, said body part having an open face defined by an inwardly directed flange in a plane spaced from that of the frame and said body interiorly threaded, and an adjustable back comprising an annulus having its outer perimeter threaded to mate with the threads of the body whereby said back may be adjusted relative the flange of the body.

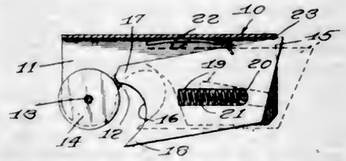
1,471,798. GONG. SIDNEY B. MERRILL, Cincinnati, Ohio, assignor to The E. W. Vanduzen Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 26, 1922. Serial No. 597,079. 4 Claims. (Cl. 116—164.)

3. In a device of the character described, a mounting frame, a gong mounted thereon, a rocker mounted between the gong and the frame, a gong striker adapted to be tripped by the rocker and mounted on the frame, a rock shaft mounted on the frame behind the gong



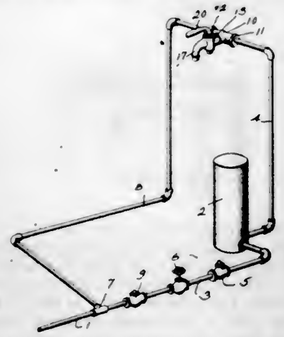
and extending likewise of the frame, and means on the shaft to actuate the rocker, whereby the entire device is located within the confines of the gong.

1,471,799. ARTICLE HOLDER. DAVID S. MORRELL, Oldtown, Me. Filed Mar. 28, 1923. Serial No. 628,310. 4 Claims. (Cl. 24—254.)



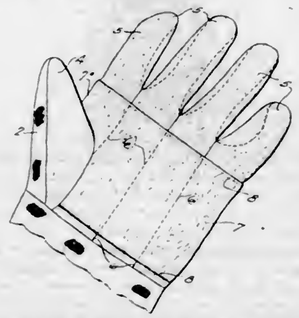
1. In an article holder the combination with a pivotally mounted plate having a longitudinally extending slot through which the pivot thereof extends, a support, a roller rotatably mounted upon the support adjacent one end of the plate, said end of the plate having a notch formed therein and means urging the plate longitudinally toward the roller and yieldable means normally maintaining one edge of the plate in alignment with the roller.

1,471,800. WATER-SUPPLY SYSTEM. WILLIAM LESTER NALLEY, Hagerstown, Md., assignor of one-half to Samuel C. Barnes, Hagerstown, Md. Filed Nov. 14, 1922. Serial No. 600,894. 4 Claims. (Cl. 137—79.)



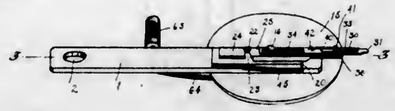
1. In a water supply system, the combination of a pressure line including a pressure tank and inlet and delivery pipes leading to and from said tank, a check valve in said inlet pipe adapted to allow water to flow to the tank and to prevent reverse flow of water from said pipe, a supply pipe leading from a pump, a by-pass pipe, said supply pipe and by-pass pipe being united to each other and to said inlet pipe on the inlet side of the check valve therein, and a discharge faucet connected with said delivery and by-pass pipes and operable for discharging water from either of said pipes independently of the other.

1,471,801. COMBINATION WORK GLOVE. RUSSELL E. NEAL, St. Louis, Mo. Filed Apr. 24, 1922. Serial No. 556,313. 2 Claims. (Cl. 2—9.)



1. A combination work glove having a back part and a front part formed of different kinds of materials, said front part being composed of separate finger pieces that form the fronts and side portions of the fingers and which have extensions that extend downwardly across the palm, said extensions being joined together by vertical seams, a thumb piece that forms the front and side portions of the thumb, and a palm piece extending transversely across the palm over the extensions of the finger pieces and joined to same by transverse rows of stitches.

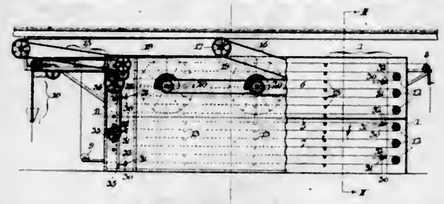
1,471,802. STOPPING DEVICE FOR KNITTING MACHINES. HENRY W. NIERMEYER, Utica, N. Y. Filed Nov. 17, 1921. Serial No. 515,939. 6 Claims. (Cl. 66—7.)



1. In a stopping device for knitting machines, a shaft, a spring pressed finder adapted to make contact with the knitted fabric, a bolt, a latch supporting said finder, and having an open recess for engaging said bolt, a disk mounted on said shaft adjacent said latch, and means, whereby an imperfection in said fabric will cause the tripping of the latch to move the disk to stop the operation of the knitting machine.

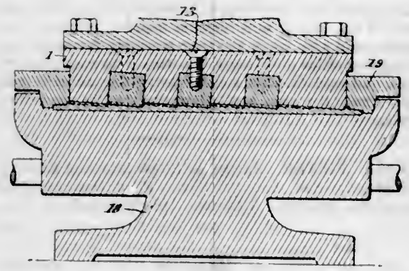
1,471,803. DRYING MACHINE. BERTRAND A. PARKES, Philadelphia, Pa., assignor to The Philadelphia Drying Machinery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 25, 1920. Serial No. 419,199. 9 Claims. (Cl. 34—48.)

9. In a drying machine, the combination of an enclosure, means to guide a strip of material to be dried through said enclosure in an undulatory path describing a plurality of horizontal stretches, the edges of the material being spaced from the sides of the enclosure, a horizontal partition in said enclosure disposed between intermediate pairs of stretches defining upper and lower compartments in communication at the edges of said partition and means



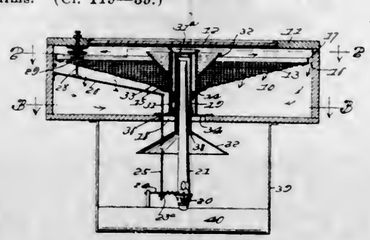
to direct a current of air through one compartment across the direction of travel of the material whereby it may be returned through the lower compartment in a reverse direction.

1,471,804. METHOD OF MAKING MOLD PLUNGERS. EMILIO PASCUCCI, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed Apr. 13, 1921. Serial No. 461,067. 2 Claims. (Cl. 76—107.)



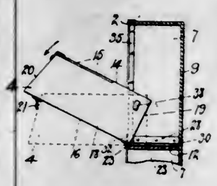
1. The method of making a mold plunger having a series of steps on its face having ribs thereon, which consists in channeling the face of the plunger at points corresponding to alternate steps, cutting ribs on the metal left between adjacent channels, and inserting in the channels of the plunger blocks forming steps.

1,471,805. INCUBATOR. WINFRED S. PORTER, Blair, Nebr., assignor of one-half to Louis N. Porter, Blair, Nebr. Filed Feb. 4, 1920. Serial No. 356,201. 4 Claims. (Cl. 119—39.)



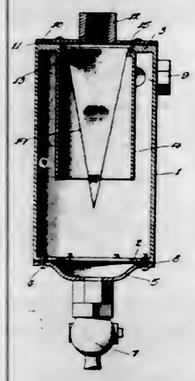
1. An incubator having a central bottom air inlet opening, an egg tray having a central opening and distributed down draft passages, and a heating apparatus having a heat flue extending through said opening and partly occupying the air inlet opening, and a return draft heating drum housed within the heat flue and provided below the plane of the inlet end thereof with a peripheral flange constituting a distributing plate for the products of combustion and being of greater diameter than the air inlet opening.

1,471,806. TRAY FOR WARDROBE TRUNKS. OTTO RANGNOW, Philadelphia, Pa., assignor to himself and Rudolph C. Rangnow, Adolph H. Rangnow, and Marie M. Thuss, trading as Rangnow Brothers, Philadelphia, Pa. Filed Aug. 23, 1921. Serial No. 494,525. 2 Claims. (Cl. 190—13.)



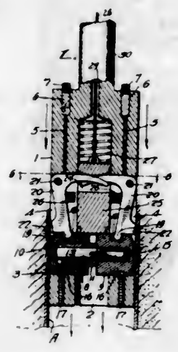
1. A wardrobe trunk comprising a body portion, a tray adapted to fit into said body portion, pivot members upon the tray located adjacent to the front lower corner of the tray, horizontally positioned guides secured in the body portion in which the pivot members are slidably mounted, a stop secured in the body portion adjacent to the front vertical plane of the latter, a fulcrum member secured upon the tray located adjacent to the rear lower corner of the latter, said fulcrum member adapted to engage the said stop when the tray is swung forwardly into the open position and move the tray rearwardly in the guides, and said fulcrum member being free to move rearwardly from the stop and allow the tray to move horizontally.

1,471,807. FILTER. JAMES A. ROOSEVELT and LLOYD C. ROOSEVELT, San Antonio, Tex. Filed Oct. 11, 1921. Serial No. 507,045. 1 Claim. (Cl. 210—165.)



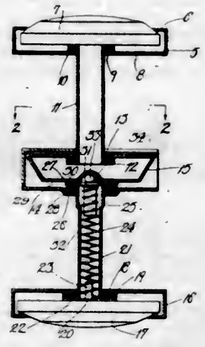
A filter comprising an outer cylinder having an open lower end and provided on its side at its upper end with a tangentially arranged inlet, a dished cap plate secured upon and covering the lower end of the cylinder and provided with a drain valve, an inner cylinder carried by the upper end of the outer cylinder and having a lower open end short of the lower end of the outer cylinder, a cap plate secured upon the outer cylinder and extending over the inner cylinder and provided with a central outlet, a rest at the upper end of the inner cylinder on the inner surface of the same, and an inverted conical filtering screen loosely supported on said rest and depending therefrom through the inner cylinder, the lower end of said screen being below the lower end of the inner cylinder and above the lower end of the outer cylinder.

1,471,808. UNDERREAMER. JOHN D. RUSS, Spencer, W. Va., assignor of one-half to Wirt N. Russ, Spencer, W. Va. Filed Jan. 19, 1923. Serial No. 613,719. 5 Claims. (Cl. 255—74.)



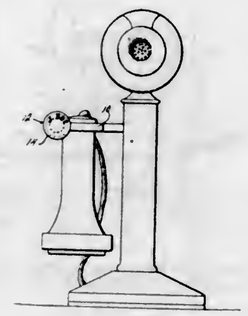
1. In an under-reamer, the combination of a tubular stock, a pair of cutter-bearing member slidable diamtrically in said stock and adapted to move outward away from each other, so as to project beyond the circumference of said stock, a spring-pressed mandrel automatically positionable between said members after outward movement thereof, and lever-connections between said mandrel and said members and each having a cam projection engageable with the lower end of a well-casing.

1,471,809. CUFF LINK. GEORGE SCHMID, New York, N. Y. Filed Feb. 25, 1922. Serial No. 539,225. 1 Claim. (Cl. 24—102.)



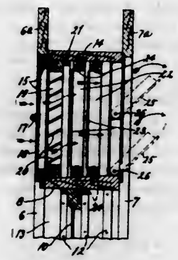
A cuff fastening device of the class described comprising two complementary members, each of said members consisting of a hollow shank and hollow cap secured thereto at one end, a hollow seat, having a transverse slot therein attached to the opposite end of one of the members and a bevelled hollow body attached to the opposite end of the shank of the second member for sliding engagement within the hollow seat, said hollow body having a bevelled edge and a depression in the bottom thereof, and fastening means within the shank of the first mentioned member adapted to ride within the depression to lock said members.

1,471,810. ADVERTISING DEVICE. CHARLES R. STEELY, Corsicana, Tex. Filed Oct. 2, 1922. Serial No. 591,870. 1 Claim. (Cl. 40—10.5.)



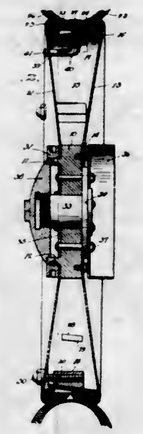
The combination with a telephone receiver hook having an opening formed therein, of a member having an elastic shank of slightly greater diameter than the opening at one side thereof and provided upon the opposite side with advertising matter, said shank being of less length than the thickness of that portion of the hook in which the opening is formed.

1,471,811. VENTILATOR. CHARLES V. SWANSON, Velva, N. Dak. Filed May 12, 1923. Serial No. 638,650. 1 Claim. (Cl. 98—31.)



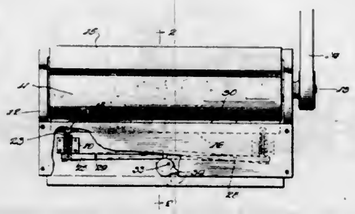
A ventilator consisting of a frame formed integral with a window frame and above the movable sash of said window, and means mounted in said frame and the window frame for controlling the passage of air through said ventilator frame, said means in the ventilator frame comprising an outer screen, a frame with baffle plates and adjacent said outer screen, a plurality of vertically disposed sheets of fabric mounted inwardly from said baffle plates and a shutter consisting of a plurality of hinged blades mounted within the ventilator frame adjacent its inward opening and normally closing said opening, said means for controlling the passage of air consisting of rocker arms secured on the adjacent pivots of the shutter blades, a link connecting said rocker arms, a tension spring connected to one of said rocker arms and to the window frame to normally hold the rocker arms down and the shutter blades in closed position, and means for opening the shutter against the tension of said spring, said opening means consisting of a sheave rotatably mounted in the ventilator frame above and adjacent the said rocker arms, a cord attached to said rocker arms and adapted to be passed upwardly therefrom over the sheave, thence downwardly within the window frame, a vertically slidable securing means for holding the lower end of said cord at any desired position for the purpose described.

1,471,812. DISK WHEEL. ANDREW PATRICK TEEVIN, Detroit, Mich. Filed Apr. 18, 1922. Serial No. 554,894. 7 Claims. (Cl. 301—63.)



3. A wheel for attachment to a wheel hub including a hub ring formed to accommodate the hub, a disk mounted upon the ring at its inner side and provided with a rim section extended to form a side flange, a disk detachably seating against the ring at its outer side and formed with a rim section surrounding the free margin of said first mentioned section mating therewith and extended to provide a side flange to cooperate with said first mentioned flange, studs carried by said first mentioned rim section projecting through the latter disk, means carried by said studs securing the latter disk adjacent its periphery, and means carried by the hub ring to coact with the latter disk centrally thereof clamping the latter disk upon the ring.

1,471,813. SCRAPER FOR IRONING MACHINES. WILLIAM S. VAN HORN, Cleveland, Ohio. Filed Sept. 5, 1922. Serial No. 586,216. 3 Claims. (Cl. 68—9.)

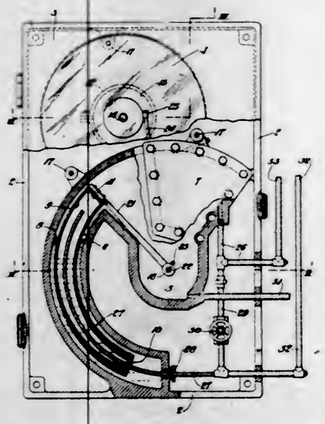


1. The combination with an ironing roller and a support therefor; of a straight edge mounted in said support parallel with said roller and means for reciprocating the straight edge as regards the roller, said means including yieldable elements tending to press the straight edge along a radial plane against the roller and guides and retracting members for said elements.

1,471,814. METER. GEORGE L. WELLER, Elyria, Ohio. Filed May 4, 1922. Serial No. 558,545. 4 Claims. (Cl. 73—31.)

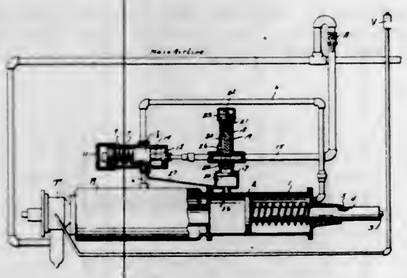
1. A metering device comprising a casing having a low pressure chamber and a mercury chamber formed therein, said mercury chamber being arcuate shaped and having

one end opening into said low pressure chamber, mercury in said mercury chamber, an arcuate shaped high pressure float tube mounted in said mercury chamber and having one end open and immersed in said mercury, said high pressure float tube being adapted to move into and out of said low pressure chamber according to the differential in pressure between the fluids in said low pressure



chamber and the fluids in said high pressure float tube, a chart mounted in said casing, a spindle journaled in said casing, a lever fixedly secured to said high pressure float tube and to said spindle and adapted to rotate said spindle, and a pen secured to said spindle and adapted to record the movements of said float tube on said chart.

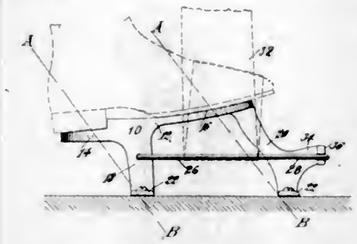
1,471,815. AIR BRAKE. WILLIAM S. ARLESKIB, Pittston, Pa. Filed Mar. 28, 1923. Serial No. 628,297. 7 Claims. (Cl. 303—69.)



1. In an air brake system, a main line communicating with a brake cylinder, a reservoir, a pipe line leading from the reservoir and communicating with the brake cylinder outwardly of the piston, a valve normally closing the flow through said second pipe line, said valve moving into open position in response to releasing pressure in the main line.

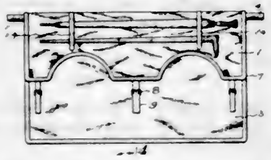
1,471,816. DEVICE FOR USE IN SHINING SHOES. ANTHONY L. ASTE, Brooklyn, N. Y. Filed Apr. 22, 1922. Serial No. 556,039. 4 Claims. (Cl. 15—266.)

1. In a shoe shining device, a support having a head constructed to serve as a shoe rest and being provided with openings in its opposite sides below the heel rest portion of said head and a substantially U-shaped cloth holding wire having the ends of its legs turned inwardly and engaged in said openings and having its bar extending transversely across the front end of the support, said support being formed with a front leg disposed substantially in the central, longitudinal, vertical plane of the



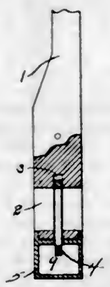
head and having arms extending laterally from the front leg and slotted at their outer ends to receive and support said wire.

1,471,817. PARCEL CARRIER. CORA P. ATKINS, West Hartford, Conn. Filed Sept. 29, 1921. Serial No. 504,127. 3 Claims. (Cl. 150—1.)



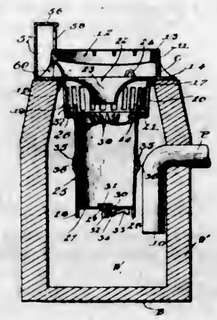
1. A parcel carrier formed of a flexible fabric having a back breadth, a front breadth with a flexible top edge, a flexible flap attached to the upper edge of the back breadth and adapted to be folded over the front breadth, means for fastening the flap down to the front breadth, spaced flexible loops fastened on the outside of the folded over flap, and a rigid supporting rod with its ends projecting and providing supporting means some distance beyond the sides of the front and back breadths and fastened at the upper edge of the back breadth, said supporting rod forming the division between the back breadth and the flap and over which the flap is folded when the carrier is in use.

1,471,818. SELF-LUBRICATING PITMAN ROD. JAY M. AXTELL, Fort Worth, Tex. Filed Nov. 4, 1921. Serial No. 512,809. 6 Claims. (Cl. 64—31.)



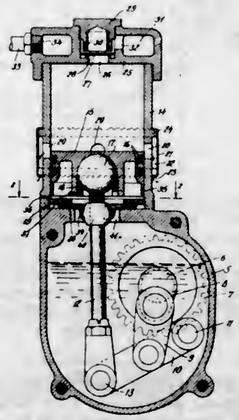
1. An oil cup for pitman rods having a socket to receive the end of a pitman rod, arms projecting therefrom to be attached to the pitman rod, and said pitman rod having a slot for a lubricating ring and said oil cup having a slot in the upper side in line with the slot in said pitman rod for receiving a lubricating ring.

1,471,819. CATCH BASIN. JOHN HENRY BAUSCHARD, Erie, Pa. Filed May 16, 1922. Serial No. 561,375. 4 Claims. (Cl. 182—3.)



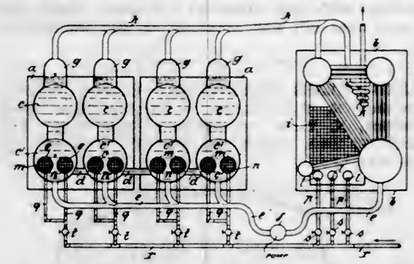
1. In combination, an annular casting adapted to be positioned over a well, a drum shaped strainer with both ends open adapted to pass through said casting, cooperating flanges between the upper end of the drum and the lower end of the casting whereby to suspend the drum, a catch basin adapted to pass through said casting and said drum, and cooperating flanges between the upper end of the catch basin and the lower end of drum whereby the catch basin will be suspended and also permit the catch basin to be lifted from the well.

1,471,820. COMPRESSOR. EDWIN C. BEAM, Newark, N. J., assignor to Motor Starter & Air Pump Company. Filed June 9, 1920. Serial No. 387,552. 3 Claims. (Cl. 230—27.)



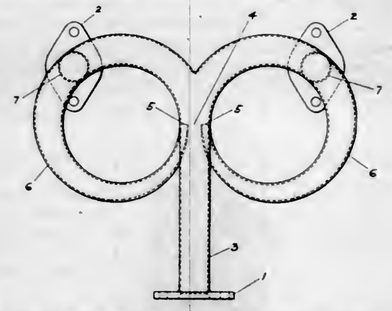
1. In a compressor, the combination of a cylinder, a piston in the cylinder, a piston rod connected to the piston, operating mechanism therefor, a casing for the mechanism, and adapted to contain a lubricant, and means for preventing escape of the lubricant including an annular washer at the base of the cylinder, and a washer having a ball and socket connection with the piston rod and disposed between the annular washer and the top of the casing and of a diameter less than that of the annular washer thereby to slide freely in every direction, said washers being adapted to close the opening in which the piston rod travels.

1,471,821. METHOD OF AND SYSTEM FOR UTILIZING HEAT. ADALBERT BESTA and HEINRICH LENT, Duisburg-Ruhrort, Germany. Filed Mar. 19, 1923. Serial No. 626,020. 8 Claims. (Cl. 122—7.)



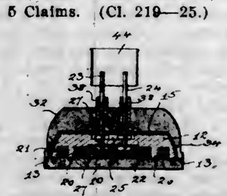
1. In a system for utilizing waste heat a steam generator having a burner for heating same, a source of fluctuating combustible gas supply, valve controlled means for conducting gas from said source to said generator burner, an accumulator having a burner for storing up heat units from said gas supply when said supply exceeds the demands of said generator, valve controlled by-pass means for leading such excess gas from said source to said accumulator burner unmixed with the gas which has been burned in said generator burner, said accumulator comprising a water heater, and means for delivering water from said accumulator to said steam generator.

1,471,822. INTAKE MANIFOLD FOR INTERNAL-COMBUSTION ENGINES. ENEA BOSSI, New York, N. Y., assignor to Self Feeding Vaporizer Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 23, 1923. Serial No. 614,431. 10 Claims. (Cl. 123—52.)



1. In an intake manifold, in combination an intake tube having a restricted area, branch tubes starting and terminating in the said intake tube, and outlet channels connected with the said branch tubes.

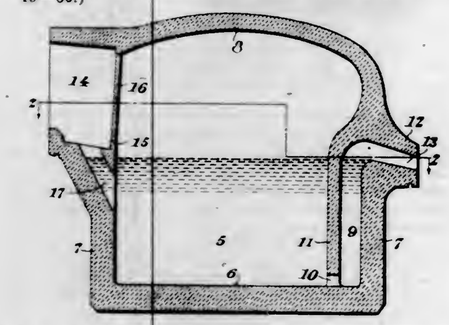
1,471,823. ELECTRIC SADIRON. WILLIAM C. BOSWELL, Baltimore, Md. Filed June 14, 1922. Serial No. 568,127. 5 Claims. (Cl. 219—25.)



1. In an electric sad iron the combination with an ironing-plate of a filler-body seated on the upper side of said plate said body being of a baked soap-stone sub-

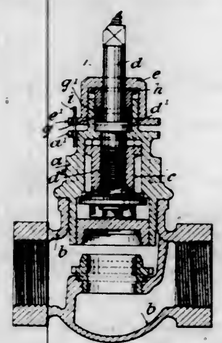
stance which is hardened by the baking and which is an insulator against the passage of electric current but will retain heat, heating wires in said body to heat the latter, posts extending through said body and in electrical connection with said wires and a metallic casing covering said filler-body and connected to said ironing-plate.

1,471,824. GLASS-MELTING POT. CLINTON A. BOWEN, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed Mar. 27, 1922. Serial No. 547,118. 2 Claims. (Cl. 49—60.)



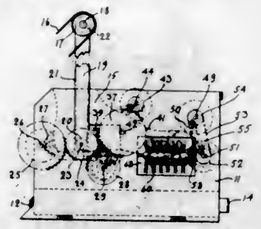
1. A glass melting pot composed of a body closed at the top and having a mouth near the top thereof and projecting therefrom, said mouth being provided with a door, and an opening formed in the bottom of said mouth and communicating with said body below said door, said opening being so positioned that molten glass can be fed into the body below the normal working level of the glass therein.

1,471,825. STOPCOCK OR VALVE. BENJAMIN BUTLER and WILFRED BUTLER, Dukinfield, England. Filed Nov. 26, 1921. Serial No. 517,897. 3 Claims. (Cl. 251—48.)



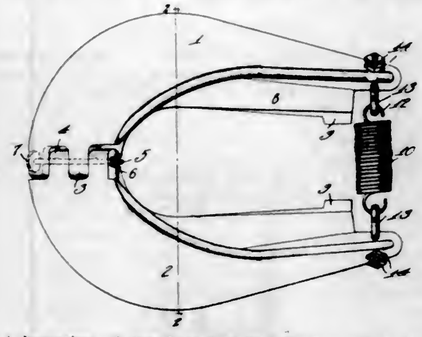
1. In stop cocks or valves, a main body portion, an upper body portion, a flange on said upper body portion having spaced apertures therein, said upper body portion having an exteriorly threaded extension, an interior annular shoulder at the base of said extension, a threaded locking nut adapted to engage said extension and having a flange provided with spaced apertures adapted to register with the apertures in the flange of the upper body portion, a valve actuating spindle extending into the upper body portion, packing devices about the spindle within said extension, said nut being adapted to act on the packing devices, and engaging means for interconnecting the registering apertures in the flanges of the nut and body.

1,471,826. SHOE-CLEANING DEVICE. MIKE BZOWY, Stanley, Wis., assignor of one-half to Joe Panocha, Stanley, Wis. Filed Mar. 16, 1922. Serial No. 544,300. 4 Claims. (Cl. 15—36.)



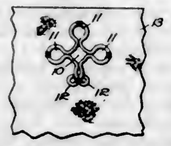
1. A shoe cleaning device of the class described comprising a frame, a plurality of transversely arranged brushes journaled in said frame for cleaning the heel, sole, upper leather and cap of a shoe, a plurality of longitudinally arranged brushes, said frame having windows in which said longitudinally arranged brushes are journaled for cleaning the welt, a plurality of vertically arranged brushes, windows in said frame in which said vertically arranged brushes are journalled for cleaning the side of a shoe and means for rotating all of said brushes simultaneously from a motor.

1,471,827. NAILLESS HORSESHOE. JAMES R. CARMAN, Beaver Dam, Ky. Filed Apr. 18, 1922. Serial No. 554,597. 1 Claim. (Cl. 168—18.)



A horseshoe of the class described, formed of two sections shaped to fit a horse's hoof when assembled, said sections being hingedly connected at their front ends, a pair of coiled springs connecting the rear ends of said sections and each having its outer coils extended longitudinally and bent to form attaching eyes, and eye-bolts engaged with the eyes of said springs and extended through the ends of said sections.

1,471,828. SEPARABLE FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Mar. 8, 1921. Serial No. 450,737. 5 Claims. (Cl. 24—218.)



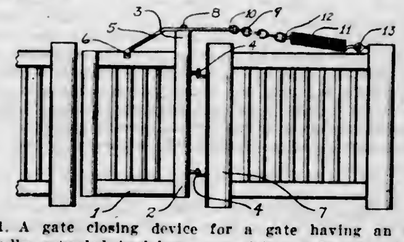
1. A fastener socket formed of a single piece of wire providing a plurality of resilient loops arranged about a stud-receiving aperture, and also having two stitch-receiving eyes, the two stitch-receiving eyes being adjacent each other and spaced from the stud-receiving aperture by the end portions of the wire, said end portions being of sufficient length so that the aperture may spread or expand substantially symmetrically when the stud is forced thereinto without putting an undue strain on the stitches which pass through said eyes and secure the socket to the carrying fabric.

1,471,829. TIRE TREAD AND METHOD OF APPLYING THE SAME. FRANCIS B. CONVERSE, Norwalk, Conn., assignor to The Norwalk Tire and Rubber Company, Norwalk, Conn., a Corporation of Connecticut. Filed Sept. 17, 1920. Serial No. 410,887. 4 Claims. (Cl. 154—14.)



1. The method of applying a tread strip to a tire carcass which method consists in stretching a tread to the required length, applying a non-extensible strip to the tread while so stretched, then applying the tread to the carcass and while so applying the tread tensioning the tread to stretch it to the limit of the non-extensible strip.

1,471,830. GATE-CLOSING DEVICE. MELVIN M. COREY, Sweetgrass, Mont. Filed Oct. 6, 1922. Serial No. 592,687. 2 Claims. (Cl. 16—72.)



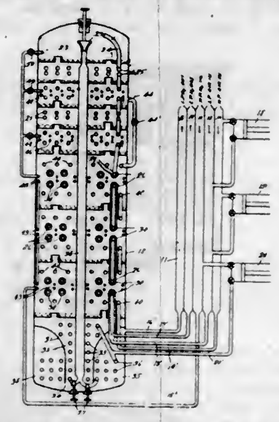
1. A gate closing device for a gate having an upwardly extended back-bar; comprising a draw-bar having one end secured to the gate and the other end run up over the top of the back-bar and secured thereto, with the free end of the draw-bar extended over the gate post; a chain attached to the free end of the draw-bar; and a taut spring connecting the chain with the fence.

1,471,831. INDICATOR WITH MECHANICAL TRANSMISSION TO A DISTANCE. LUCIEN ALFRED MAURICE CORSET, Paris, France. Filed Sept. 2, 1921. Serial No. 498,032. 1 Claim. (Cl. 74—5.)



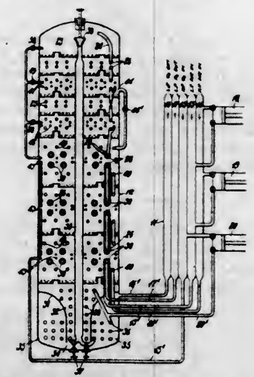
A thrust transmitting device comprising a hollow flexible outer casing and a flexible thrust transmission mechanism enclosed in said casing consisting of a series of short push rods, each of said push rods having an elongated central portion terminating at one end in an enlarged head constructed and arranged to have a peripheral line contact with the inner surface of said casing, said head provided with a cup shaped recess and terminating at its other end in an enlarged substantially ellipsoidal shaped head of smaller transverse dimensions than said casing, said push rods being arranged in end to end relation with the ellipsoidal shaped head received within and in contact with said cup shaped recess, whereby transverse flexure of said device is permitted and longitudinal displacement of one of the end rods of said series will transmit a thrust along the entire series and frictional contact between said rods and casing will be confined to a single line contact at one end only of each push rod.

1,471,832. PROCESS OF SEPARATING THE CONSTITUENTS OF AIR AND OTHER GASEOUS MIXTURES. HARVEY N. DAVIS, Cambridge, Mass., assignor to Research Corporation, New York, N. Y., a Corporation of New York. Filed July 7, 1920. Serial No. 394,544. 35 Claims. (Cl. 183—115.)



3. In a process of separating a gaseous mixture into portions of different compositions by L. P. rectification, the steps which consist in abstracting heat from the contents of the train at substantially all levels between the top of the train and the lowest level at which material is introduced into the train and imparting heat to the contents of the train at substantially all levels between the bottom of the train and the lowest level at which material is introduced.

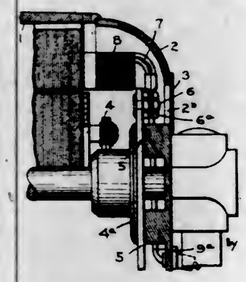
1,471,833. APPARATUS FOR RECTIFICATION OF AIR. HARVEY N. DAVIS, Cambridge, Mass., assignor to Research Corporation, New York, N. Y., a Corporation of New York. Original application filed July 7, 1920, Serial No. 394,544. Divided and this application filed Nov. 17, 1920. Serial No. 424,760. 24 Claims. (Cl. 62—122.)



2. The combination with a rectification train of means for abstracting heat from the contents of the train between the top of the train and the lowest level at which

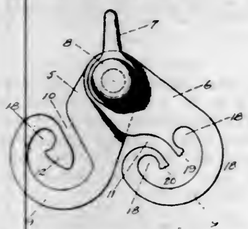
material is introduced, said means terminating its effective thermal contact with the contents of the train above or substantially at said level and means for imparting heat to the contents of the train between the bottom of the train and the lowest level at which material is introduced into the train, said means terminating its effective thermal contact with the contents of the train below or substantially at said level.

1,471,834. ELECTRIC-MOTOR TERMINAL CONNECTION. MARK A. DEFIBAUGH, Battle Creek, Mich., assignor to H. B. Sherman Manufacturing Co., Battle Creek, Mich., a Corporation of Michigan. Filed Aug. 24, 1921. Serial No. 495,113. 4 Claims. (Cl. 172—36.)



1. In an electric motor a casing having a detachable end bracket provided with an opening; a member inside of and attached to the bracket, and terminal connections supported on said member opposite said opening, and a removable cover for said opening, substantially as described.

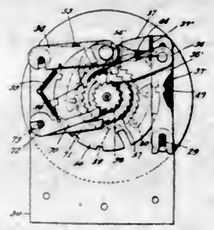
1,471,835. ANTISKID-CHAIN HOOK. HERBERT E. DETWILER, York, Pa. Filed May 9, 1922. Serial No. 559,546. 3 Claims. (Cl. 24—242.)



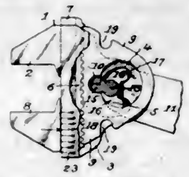
1. A chain connector comprising two plates pivotally connected at their ends, a hook on the other end of each of said plates, the end of the hook on one plate being adapted to close the entrance to the hook of the other plate, thereby forming an eye, and the ends of said hooks projecting downward into said eye, thereby forming notches adapted to receive a chain link through which said hook entrance is held closed.

1,471,836. COIN-CONTROLLED CALENDAR. GEORGE M. DIEHL, Wabash, Ind., assignor to Warren A. Reed and Bradford W. Burns, both of Chicago, Ill. Filed Dec. 16, 1921. Serial No. 522,772. 11 Claims. (Cl. 40—112.)

1. A perpetual calendar comprising a day dial and its operating ratchet, a month dial and its operating ratchet, a number dial and its operating ratchet, an actuating member, a pair of actuating pawls connected with said actuating member and cooperating with the day dial ratchet and number dial ratchet, blocking means associated with the month dial for determining the stroke of the actuating pawls, other blocking means for normally limiting the actuating movement of the said pawls, means associated with the number dial for retracting said last mentioned blocking means at appropriately spaced intervals, and means for intermittently advancing the first mentioned blocking means.

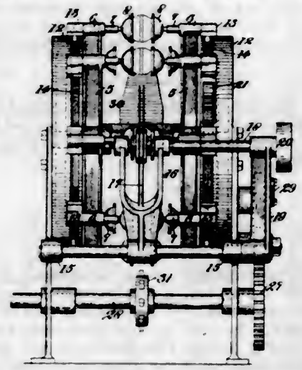


1,471,837. ADJUSTABLE WRENCH. CHARLES A. DIES, Chicago, Ill. Filed Sept. 29, 1922. Serial No. 591,231. 10 Claims. (Cl. 81—128.)



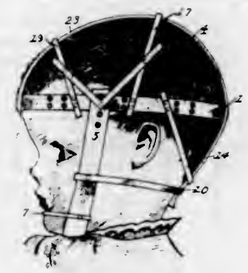
1. In a wrench, the combination of a pair of wrench heads slidingly connected together and having orificed rearward extensions, a cam head arranged in the orifices of said extensions and having a forwardly extending lug for operative engagement with one wrench head and a rearwardly extending lug for operative engagement with the other wrench head and adapted to impart simultaneous movement to the wrench jaws in opposite directions, and a rocking handle fixedly connected to said cam head.

1,471,838. APPARATUS FOR PREPARING FRUIT FOR CANNING. ARTHUR L. DUNCAN, Oakland, Calif., assignor of one-third to E. H. Duncan and one-third to Charles E. Forry, both of Oakland, Calif. Filed May 16, 1923. Serial No. 639,348. 9 Claims. (Cl. 146—28.)



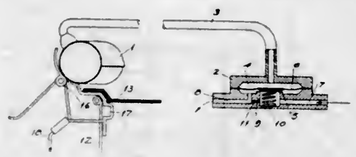
1. An apparatus for halving a pit containing fruit particularly a peach, including a pair of opposing fruit engaging members movable in a closed path, and a pair of spaced rotary cutters also movable in a closed path to intersect the path of movement of the fruit engaging members and to pass between the same to cut a section from the fruit carried between said members.

1,471,839. MOUTH ADJUSTER. GILES T. EPLING, Welch, W. Va. Filed Mar. 20, 1922. Serial No. 545,229. 1 Claim. (Cl. 128—164.)



A mouth adjuster comprising a strap adapted to encircle the upper portion of the head, a second strap having one end portion engaged with the first named strap and adapted to extend rearwardly over the top of the head and of a length to terminate, when applied, below the occipital bone of the head, means for connecting both of said straps at the back portion of the head, an elastic strap adapted to underlie the chin and having its extremities engaged with the first named strap at opposite sides of the head, additional straps having their extremities secured to opposite sides of the first named strap forwardly and rearwardly of the elastic strap, said last named straps extending over the second named strap, means for securing said last named straps and the second named strap, and a substantially V-shaped strap associated with each side portion of the device, the apex portion of said strap being secured to the elastic strap, the extremities of said V-shaped strap being secured to the last named straps.

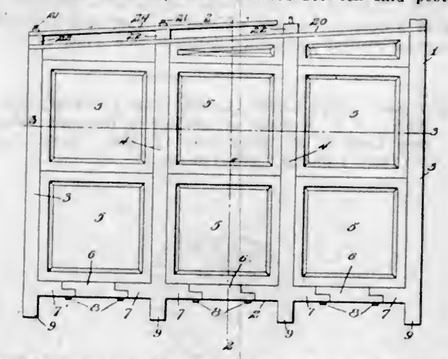
1,471,840. COOKING APPARATUS FOR GAS, LIQUID FUEL, OR ELECTRICITY. SVEN AUGUST ESKILSON, Stockholm, Sweden, assignor to Svenska Aktiebolaget Gasaccumulator, Stockholm, Sweden. Filed Oct. 7, 1920. Serial No. 415,339. 2 Claims. (Cl. 236—20.)



1. In combination with a cooking vessel, means for heating the same, means actuated by steam generated in the aforesaid vessel and automatically regulating said heating means, and means for both maintaining an open passage for escape of steam from said vessel and for supporting said regulating means in the path of the escaping steam for actuation thereby.

1,471,841. CONCRETE BUILDING. WILLIAM C. FLANNERY, Elkridge, Md., assignor, by direct and mesne assignments, of seventy-five per cent to M. Markham Flannery and twenty-five per cent to C. Calvert Hines, both of Washington, D. C. Filed June 22, 1916, Serial No. 105,108. Renewed Sept. 21, 1920. Serial No. 411,812. 7 Claims. (Cl. 72—1.)

3. A concrete structure comprising posts having vertical grooves and including anchoring and sill portions, the latter being extended laterally and having grooves in their upper surfaces, slabs mounted between said posts



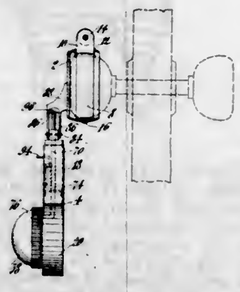
and having marginal grooves registering with the grooves in said posts and sill portions, and a binder element in said grooves.

1,471,842. WAR-ZONE DRIVING LIGHT. HENRY PHELPS GAGE, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed June 17, 1918. Serial No. 240,326. 14 Claims. (Cl. 240—48.4.)



1. In a device of the character described, the combination with a vehicle, of a lamp carried thereby and having a light-transmitting front opening, and a hood located in front of the lamp, and having side walls, and top and bottom walls, which respectively diverge and converge from the lamp forwardly.

1,471,843. BURGLAR ALARM. CARL L. GRAEF, Hawthorne, N. J., assignor of one-half to Hermann Kind, New York, N. Y. Filed Mar. 21, 1922. Serial No. 545,563. 2 Claims. (Cl. 116—74.)



2. In a door-knob burglar alarm, the combination of an anchor member having a bracket provided with a stop cam and with an arm extending below said cam, a pendulum member having a slotted bearing member at its upper end pivotally connected with said arm, an alarm bell mounted on said pendulum member, means for actuating said bell including a double ended lever, a spring actuated trip-rod slidingly mounted in said bearing and provided with a slot engaging the pivotal connection between said pendulum and said arm, the upper end of said

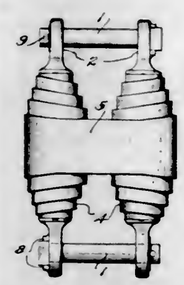
trip-rod being adapted to engage said cam and the lower end of said rod being provided with an off-set adapted to engage said double ended lever, and a latch pivoted on said pendulum member adapted to hold said trip-rod against vertical movement relative to said lever.

1,471,844. DOOR-KNOB ALARM. CARL L. GRAEF, Hawthorne, N. J., assignor of one-half to Hermann Kind, New York, N. Y. Filed Jan. 17, 1923. Serial No. 613,190. 7 Claims. (Cl. 116—10.)



2. A door knob alarm, comprising a back plate having a spindle connection, a casing rotatably adjustable on said back plate, striking mechanism within said casing, a bell associated with said striking mechanism, a spring actuated gear train operating said striking mechanism, a pivoted pendulum having a bearing stud, a duplex crank having one of its free ends adapted to bear on said stud, and its other free end adapted to engage said striking mechanism and act as a stop therefor, and an arm slidingly adjustable on said casing and provided with a beveled tip adapted to engage and raise the first named free end of said lever.

1,471,845. SPRING SHACKLE. ELMER E. HENDRICKS, Klamath Falls, Oreg. Filed Jan. 20, 1922. Serial No. 530,686. 6 Claims. (Cl. 267—54.)

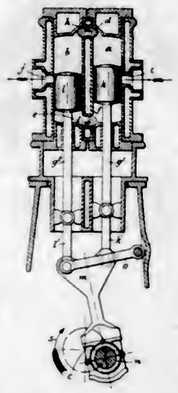


1. A shackle device of the character described, comprising a plurality of sets of complemental volute spring elements arranged side by side, the spring elements of each set having an opposed relation and a common axis, and means for connecting the outer ends of the volute spring elements directly to the vehicle springs, whereby the volute spring elements of the shackle device will be interposed between the parts connected by the shackle.

1,471,846. HEAT-INSULATING MATERIAL. HENRY H. HINDSHAW, St. Paul, Minn., assignor to Hindshaw Engineering & Development Co., St. Paul, Minn., a Corporation of Minnesota. Filed Dec. 7, 1921. Serial No. 520,588. 7 Claims. (Cl. 106—18.)

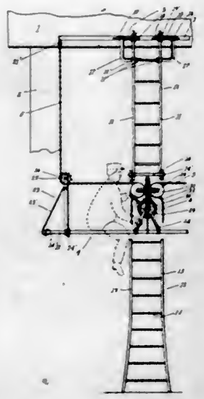
1. An insulating material composed of particles of moss bound together by peat.

1,471,847. INTERNAL-COMBUSTION ENGINE. PETER ALBERT HOLLIDAY, Edgbaston, Birmingham, England, assignor to Belliss and Morcom Limited, Birmingham, Warwick, England, a British Company. Filed July 1, 1922. Serial No. 572,320. 4 Claims. (Cl. 123—53.)



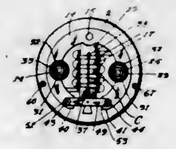
3. In a double acting internal combustion engine, a crank shaft, a pair of cylinders astride of said crank shaft, passages interconnecting said cylinders at both their ends, a sparking plug in the crank shaft adjacent passage between said cylinders, an inlet port at the mid-length of one of said cylinders, an exhaust port at the mid-length of the other of said cylinders, a piston in each of said cylinders uncovering said port therein, an axially extending piston rod rigid with each of said pistons, a packed gland for each of said cylinders traversed by said piston rods, a separate guided crosshead at the end of each of said piston rods, a connecting rod connected to one crank of said crank shaft and directly to both of said crossheads and a sliding connection between said crosshead.

1,471,848. PORTABLE SCAFFOLD. SIGURD W. JOHNSON, Minneapolis, Minn., assignor of one-half to Edwin O. Turnquist, Minneapolis, Minn. Filed Oct. 20, 1922. Serial No. 595,848. 3 Claims. (Cl. 304—17.)



1. In a hoisting mechanism for scaffolds, the combination with an elongated platform, of a sprocket wheel mounted for rotation at each end of the platform, a sprocket chain adapted to be connected to a support for suspending the platform, there being one for each of said sprocket wheels, said chain extending downward and around the under side of its respective sprocket wheel and longitudinally of the platform towards the center thereof, horizontally alined sprocket wheels adjacently mounted on the platform in a manner to mesh respectively with said sprocket chains to pull the latter toward each other responsive to a rotary movement of the alined wheels in opposite directions, and manually operated worm actuated actuating mechanism for simultaneously rotating said sprocket wheels at will in opposite directions, for the purpose set forth.

1,471,849. AMMETER. FRANK WILLIAM KAISLING, Jr., Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 25, 1919. Serial No. 333,352. 3 Claims. (Cl. 171—95.)



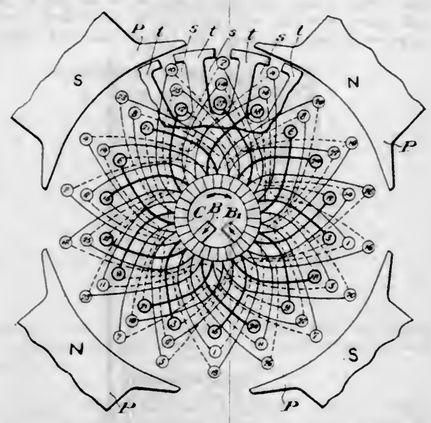
1. A device of the character described including a mounting plate, a non-continuous ring-shaped permanent magnet secured thereto, a coil comprising integrally formed parallel strips alternately displaced to form a central opening supported by said mounting plate, a pair of terminals for said coil secured to said plate, a flat core extending through said central opening and having its one end secured to said permanent magnet and its other end resting between the free ends of said permanent magnet, a pair of bridging members secured to the free ends of said permanent magnet, an armature pivotally secured between said bridging members and adapted to be acted upon by said core when current is passing through said coil, adjusting means for adjusting one of said members relative to said pivotally supported armature, and a cover cap for engaging said mounting plate to enclose the various parts of said device.

1,471,850. RECORDING DEVICE FOR MOTOR VEHICLES. ROBERT H. KIMES and OSCAR F. SCHMIDT, Dayton, Ohio, assignors to Ohmer Fare Register Company, Dayton, Ohio, a Corporation of New York. Filed Apr. 17, 1922. Serial No. 553,834. 24 Claims. (Cl. 234—1.)



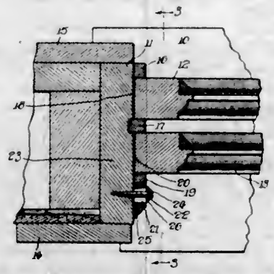
1. In a recording device for motor vehicles having devices for registering both time and distance, actuating means for said devices, and means controlled by said actuating means for automatically taking a record from said registering devices.

1,471,851. ARMATURE WINDING. RUSSELL T. KINGSFORD, Philadelphia, Pa., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 15, 1920. Serial No. 381,546. 14 Claims. (Cl. 171—206.)



1. An armature comprising a core structure having slots, and a winding comprising an odd number of coil sides per slot, greater than two, and coils whose number is a multiple of said odd number, the second sides of coils whose first sides are disposed in a common slot being divided among a plurality of different slots.

1,471,852. DOOR AND WINDOW STOP. KNUD J. KNUDSEN, Chicago, Ill. Filed Dec. 29, 1921. Serial No. 525,649. 1 Claim. (Cl. 16—220.)

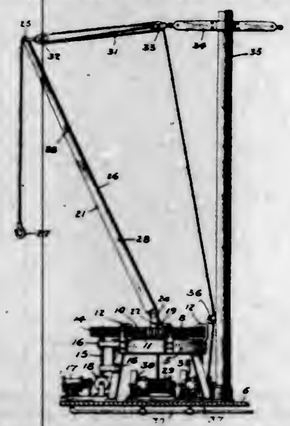


A stop of the character described having an aperture and an elongated ferrule with parallel sides arranged in, and with its parallel sides extending the entire depth of the aperture to permit the adjustment of the stop relatively to the frame with which the stop is adapted to be associated, and with respect to a holding element which is passed through the opening in the ferrule, which holding element has a portion which engages one edge of the ferrule, the other edge of the ferrule being arranged relatively to that face of the stop which is immediately adjacent to the frame so that said last mentioned edge of the ferrule may directly engage the frame and thereby relieve the stop of the holding force applied by the holding element and apply said force to the frame and ferrule.

1,471,853. DERRICK. JOSEPH E. LARSON, Seattle, Wash. Filed June 19, 1922. Serial No. 569,545. 1 Claim. (Cl. 212—58.)

A derrick of the character described comprising a base turn table, a hollow cylindrical hub concentrically formed on the upper side of said turn table, an annular rib on the upper side of said turn table, a bull

wheel revolvably mounted on said cylindrical hub and turn table base, an annular rib on the under side of said bull wheel arranged to register with its said corresponding rib on said turn table base, gear teeth on said bull wheel, a pinion arranged to mesh with said gear teeth, means for imparting rotary motion to said bull wheel through said pinion and gear teeth, clamp members secured to said turn table base and slidably

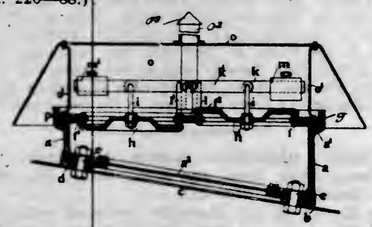


engaging said bull wheel, a boom pivotally mounted on said bull wheel, a sheave on the upper end portion of said boom, a roller mounted on said bull wheel, a hoisting cable arranged to pass over said sheave and roller and through said hollow cylindrical hub, means for controlling the movement of said hoisting cable, a mast, a topping lift secured to the upper end portion of said boom and mast, and means for controlling the movement of said topping lift to impart pivotal movement to said boom.

1,471,854. BLUE SULPHUR DYE. WALTER A. MANSS, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 22, 1922. Serial No. 608,575. 7 Claims. (Cl. 260—19.)

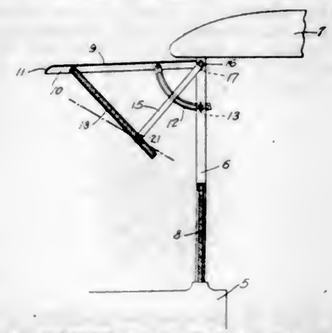
3. The process of rendering suitable for machine dyeing the product obtainable by thionating, with aqueous or alcoholic polysulphide, phenyl-p-amino-p-oxy-diphenylamine, and by precipitating the dye from the resulting mixture by means of acid or air, which comprises mixing one part of said product and from about 1 to 2 parts of water with about 8 parts of sulphuric acid of from 90 to 95% strength, while allowing the temperature of the mixture to rise to between 75 and 90° C., until a homogeneous mixture is produced, and then treating the resulting mixture with water to precipitate the dye.

1,471,855. RELIEF VALVE FOR TANKS OR RECEPTACLES. PERCY MATHER, London, England. Filed July 26, 1920. Serial No. 399,151. 4 Claims. (Cl. 220—88.)



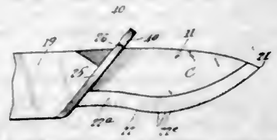
1. In tanks or receptacles for the reception of volatile liquids, in combination a vacuum relief valve and a pressure relief valve, a valve seating plate upon which the respective valves are adapted to be seated, the vacuum relief valve being beneath the said plate and the pressure relief valve above the said plate, and counter-weighted levers from one arm of which the vacuum and pressure relief valves are respectively suspended, substantially as described.

1,471,856. WINDSHIELD CONSTRUCTION. GEORGE F. MILES, New York, N. Y. Filed May 15, 1922. Serial No. 560,932. 8 Claims. (Cl. 296—91.)



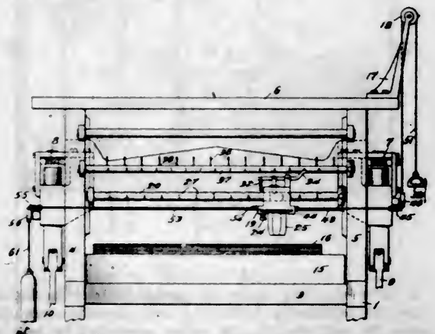
1. In a windshield construction, a lower windshield panel, a shade element projecting forwardly and positioned above said lower element, a pair of pivotally supported arms, and a deflector member pivotally supported from the free ends of said arms and positioned beneath the shade element whereby said deflector member may be moved to various positions and angles relatively to the lower panel.

1,471,857. CAN OPENER. ABNER R. NEFF, Long Beach, Calif. Filed Nov. 3, 1920. Serial No. 421,572. 5 Claims. (Cl. 30—3.)



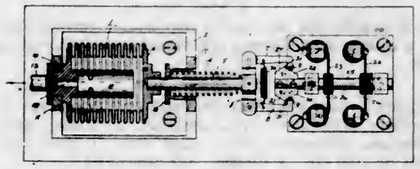
1. In a can opener, a blade having a sharp edge and formed with a plurality of relatively fine notches in and substantially confined to its sharp edge.

1,471,858. DIE PRESS. LOUIS NELSON, New York, N. Y., assignor to Charles W. Lifschitz, New York, N. Y. Filed Aug. 19, 1921. Serial No. 493,720. 9 Claims. (Cl. 164—21.)



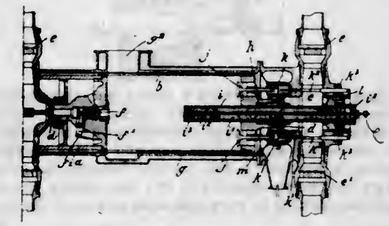
1. In a die-press for cloth and the like in combination, a cutting-block, a die, a die-holder, means for moving the die-holder and the die toward and from the cutting-block, a press-weight, two cylindrical rods mounted on either side of said press-weight transversely of the die-press, and two arms secured on either side of said die-holder, said arms being provided with smooth cylindrical bores through which said arms may slide over said cylindrical rods whereby the die may be rigidly supported or moved transversely.

1,471,859. AUTOMATIC CONTROL MECHANISM FOR ELECTRIC SWITCHES. HAL T. PATTON, Cleveland, Ohio, assignor to Bishop & Babcock Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 25, 1920. Serial No. 405,821. 2 Claims. (Cl. 200—77.)



1. In an apparatus of the character described, the combination of a support, a pressure or vacuum responsive device carried by said support, a reciprocating member actuated thereby and having spring abutments at each end thereof, a second support, a reversible spring abutment carried by said support and encircling said reciprocating member, a spring surrounding said reciprocating member and interposed between two of said abutments, a second reciprocating member, a reversible switch contact member and a reversible cam block carried by said second reciprocating member, and lost motion means connecting said first reciprocating member with said cam block.

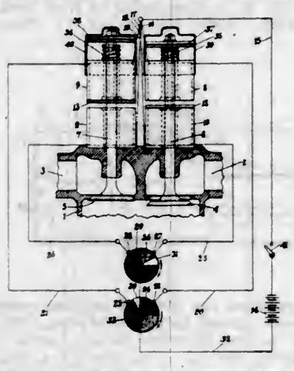
1,471,860. INTERNAL-COMBUSTION AND FLUID-PRESSURE ENGINE. ROBERT ESNAULT PELTERIE, Paris, France. Filed Feb. 14, 1919. Serial No. 277,115. 9 Claims. (Cl. 123—2.)



1. An explosion motor, comprising a fixed cylinder, a movable cylinder in said fixed cylinder, and a movable piston slidable in said movable cylinder, the movable elements being adapted to be driven in opposite directions by the explosion of a charge between their adjacent faces, and chambers adapted to contain a compressible liquid, closed at one end by a movable diaphragm adapted to be actuated by the movable cylinder and acting as a piston compressing the fluid; the supply of said fluid under pressure from said chamber serving as the transmission medium to transmit power from the movable elements to external mechanism.

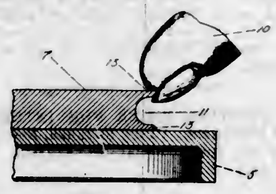
1,471,861. VALVE-ACTUATING MECHANISM FOR INTERNAL-COMBUSTION ENGINES. OSCAR LOUIS PERRAULT, Albany, N. Y. Filed Sept. 7, 1921. Serial No. 499,040. 8 Claims. (Cl. 123—90.)

1. The combination with an internal combustion engine cylinder and a valve therefor of a valve actuating mechanism, comprising opposed electromagnets respectively adapted to move the valve both to open and closed positions and hold the same in such positions, means for alternately energizing said electromagnets, and



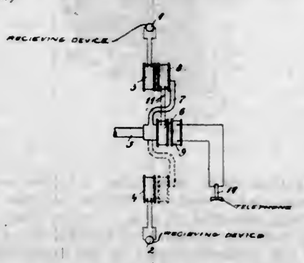
means for reducing the current through each electromagnet during the period when it is holding the valve in position.

1,471,862. PHONOGRAPH RECORD. JOHN J. REINHOLD, Marietta, Pa. Filed Oct. 26, 1921. Serial No. 510,616. 1 Claim. (Cl. 274—42.)



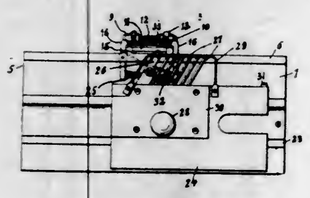
A one piece disk shaped phonograph record of normal thickness having a furrow in the periphery adapted to engage with the human finger nails.

1,471,863. ELECTRICAL CHANGE-OVER APPARATUS. HANS RIDDER, Berlin-Pankow, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Aug. 24, 1922. Serial No. 584,084. 2 Claims. (Cl. 177—386.)



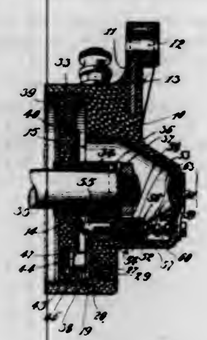
1. Change-over apparatus for alternating currents, comprising in combination a rotatable part, a transformer coil carried by the rotatable part the axis of the coil being in alignment with the axis of the rotatable part, a second transformer coil carried by the rotatable part and electrically connected to the other coil the axes of the coils being disaligned relatively to each other, a third transformer coil arranged stationary and placed in mutual inductive relationship with the first coil, and other stationary transformer coils placed along the path of the second transformer coil when rotated.

1,471,864. SCRAPING MACHINE. CAMILLE A. SENTOU and ETIENNE JACQUET, Fort Lee, N. J., assignors, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 28, 1922. Serial No. 540,067. 5 Claims. (Cl. 154—42.)



1. A film squaring and scraping machine comprising a support having a channel for accommodating a film, a trap for engaging the film in to the channel, spring actuated means for locking the trap in the channel, a slide on the support disposed to move transversely of the channel, a cutter on the slide for cutting the film in the channel, a series of scrapers disposed on the slide for engaging the film successively so that the said film is supported by the trap, said scrapers being disposed obliquely so as to flex away from the film when engaging the film, means carried by the slide and adapted to engage the spring actuated means for locking the trap in the channel, and whereby said spring actuated means are adapted to disengage the trap, the said trap having means for raising it from the channel, substantially as and for the purposes set forth.

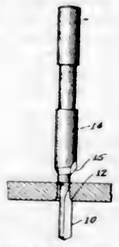
1,471,865. IGNITION TIMER FOR INTERNAL-COMBUSTION ENGINES. VANCE SHEARER, New York, N. Y. Filed May 27, 1921. Serial No. 472,943. 5 Claims. (Cl. 200—24.)



2. An ignition timer, comprising a hollow body of insulating material having an interior annular raceway, fixed contacts embedded therein, a rotary shaft, a brush and holder therefor connected with said shaft, a plurality of spaced ball contacts carried by the brush holder, and make and break contact coacting with said ball contacts by means of which the brush is intermittently charged with electric current.

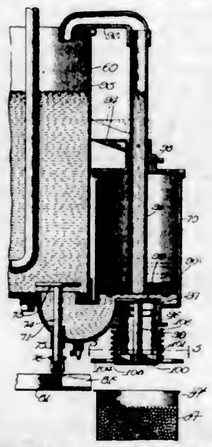
1,471,866. DRILL. ALBERT E. SIMPSON, Bury, England. Filed Apr. 6, 1921. Serial No. 458,949. 13 Claims. (Cl. 77—65.)

1. In combination, a drill having a body of given size, a drill stem extending eccentrically from one end of said body whereby a step is formed, a member extending eccentrically with respect to the drill from the other end of said body whereby a step opposite to the first named



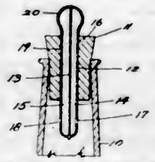
step is formed, said first named step being a cutting edge, and a cutting edge disposed rearwardly from said cutting edge.

1,471,867. CAN-FILLING MACHINE. CLARENCE E. STEERE, Milwaukee, Wis., assignor to Henry Scarborough, Milwaukee, Wis. Filed Apr. 7, 1917. Serial No. 160,471. 4 Claims. (Cl. 226—98.)



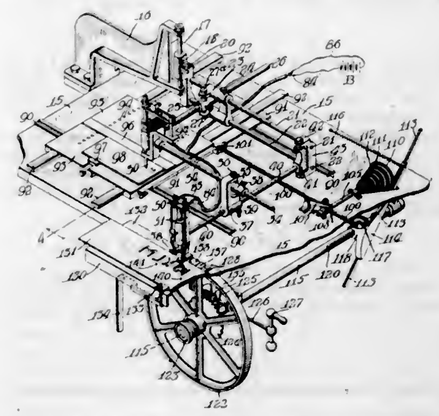
2. In a can filling machine, a rotary main supply chamber, an auxiliary supply member carried by the chamber and having a passage way communicating therewith, a valve controlling said passage way and having a depending stem, a stationary cam located beneath the rotary chamber and means operable by the cam during the rotation of the chamber to raise said stem and open the valve.

1,471,868. DROPPING ATTACHMENT FOR BOTTLES. CHARLES L. SWARTZ, Philadelphia, Pa. Filed May 10, 1922. Serial No. 559,915. 4 Claims. (Cl. 215—58.)



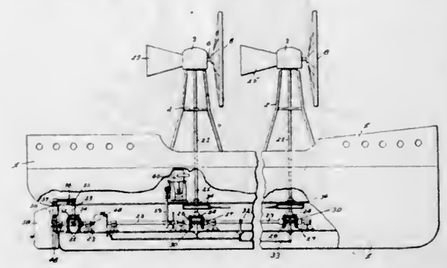
1. In a device of the character stated a vessel for containing liquid, a stopper for said vessel and a tube carried by the stopper said tube being sealed at each end and having an air admission and liquid-discharge hole pierced in the tube side wall above the stopper and having an air discharge and liquid admission hole pierced in the tube side wall below the stopper means being present whereby the first mentioned holes may be temporarily closed.

1,471,869. ENGRAVING MACHINE. HARRY G. TURNER, Chicago, Ill. Filed Sept. 8, 1922. Serial No. 586,810. 19 Claims. (Cl. 33—25.)



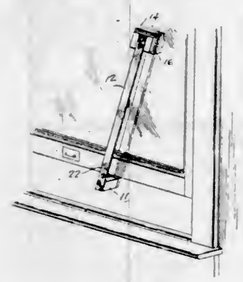
1. In an engraving machine, the combination of means forming a pantograph having a tracer and a graver, means for holding in an operative relation to the graver the material to be engraved, means for holding in an operative relation to the tracer an object having the design to be traced, the tracer being mounted for movement by hand toward and away from the object having the design to be traced when such object is held in its operative relation to the tracer, hand-operable means for moving the tracer, the graver being mounted for movement toward and away from the material to be engraved when such material is held in its operative relation to the graver, and means including said hand-operable means and an electro-magnet for inducing movement of the graver into contact with such material properly positioned after the tracer has been moved into contact with the design properly positioned and by a further movement of said hand operable means, and for inducing movement of the graver away from such material when said hand operable means are movable in the reverse direction.

1,471,870. SHIP-PROPELLING DEVICE. GUSTAV TUST, San Francisco, Calif. Filed Mar. 4, 1922. Serial No. 541,198. 3 Claims. (Cl. 115—3.)



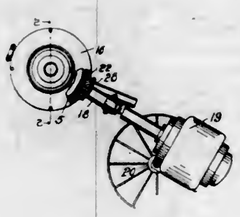
1. A ship propelling device comprising the combination with a ship, of propelling means mounted upon the ship; a drive shaft connected to said propelling means and arranged to drive the same at different speeds; windmills mounted upon the ship and arranged to be rotated by the passage of air currents thereby; a connecting shaft geared to each windmill; gears mounted between the drive shaft and the connecting shafts and arranged to rotate said drive shaft in either direction to propel the ship; a rudder; and means connected to the drive shaft and actuated thereby for moving said rudder in either direction to steer the ship.

1,471,871. WINDOW CLEANER. VICTOR VIOLA, New York, N. Y. Filed July 22, 1921. Serial No. 486,906. 5 Claims. (Cl. 15—220.)



1. An article of manufacture for cleaning windows comprising a mount, a pair of flexible arms attached at one of their ends to said mount, a pair of opposed cleaning elements removably secured to said arms, each of said elements consisting of a cleat and surface pad, and resilient means for regulating the pressure of said elements upon an intervening object.

1,471,872. PIPE-CUTTING APPARATUS. WILLIAM W. VOSPER, Toledo, Ohio, assignor to The Toledo Pipe Threading Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 31, 1921. Serial No. 526,130. 3 Claims. (Cl. 10—89.)

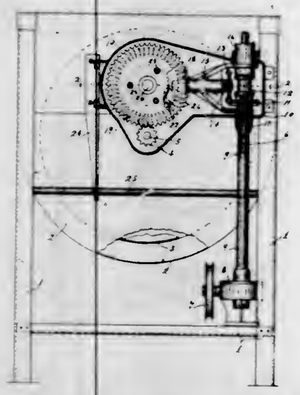


2. In combination, in an apparatus of the class described, a gear, a housing mounted on and enclosing the gear, work-holding and centering means engaged and driven by the gear and having an extension at one end, a tapered thread cutting unit carried by the extension for turning movements relative thereto, means connecting the housing and unit to prevent a relative turning thereof, and power means connected to the housing and having driving connection with the gear.

1,471,873. REVERSING MECHANISM FOR WASHING MACHINES. CARLTON K. WAITE, Minneapolis, Minn., assignor to New Liberty Washing Machine Company, St. Paul, Minn., a Corporation of Minnesota. Filed June 21, 1922. Serial No. 569,842. 5 Claims. (Cl. 74—50.)

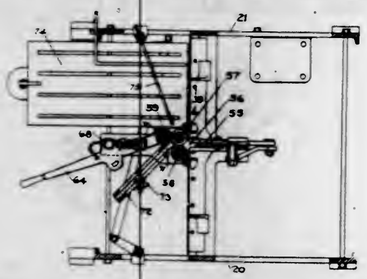
1. A device of the class described comprising a casing having parallel top and bottom walls with inwardly projecting bearings, a shaft journaled in said bearings, a pair of beveled gears disposed respectively at the top and bottom of said casing adjacent said bearings and having inwardly facing toothed portions and inwardly projecting portions having curved converging sides, said por-

tions contacting to form a continuous toothed surface with the toothed surface of said gears, a circular disk mounted on said shaft between said gears and having a circumferential space opposite said inwardly-projecting portion, a bolt traversing said gears and disk, nuts on



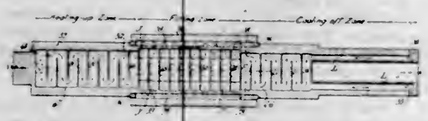
said bolts contacting said disk and gears, a pinion meshing with said gears and guided and held in contact therewith by said disk, and a shaft on which said pinion is carried mounted to move in a plane at right angles to the plane of said gears.

1,471,874. PAPER-FOLDING MACHINE. EDWARD WORTMANN, New York, N. Y. Filed May 15, 1922. Serial No. 560,973. 8 Claims. (Cl. 270—85.)



1. In a paper folding machine: a pair of folding rolls, an ejector roll, and means to shift same to cooperate with either of said folding rolls.

1,471,875. TUNNEL KILN. LOUIS A. WITTE; Elizabeth Witte administratrix of said Louis A. Witte, deceased, Metuchen Borough, N. J. Filed June 24, 1918. Serial No. 241,472. 29 Claims. (Cl. 25—142.)

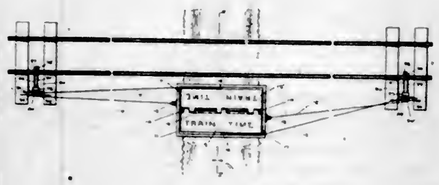


1. A tunnel kiln comprising a continuous lining forming a tunnel chamber and an enclosing masonry structure forming an interventing space divided by transverse partitions, said structure having a central zone with combustion chambers, a heating up zone with flues for the circulation of combustion gases through such space around the chamber, and a cooling zone with air flues for heating air for combustion purposes by means of the heat transmitted through the walls of the chamber.

1,471,876. CONCRETE AND PROCESS FOR MAKING SAME. EDMUND L. ZUKOSKI, St. Louis, Mo. Filed Mar. 8, 1922. Serial No. 542,195. 3 Claims. (Cl. 106—24.)

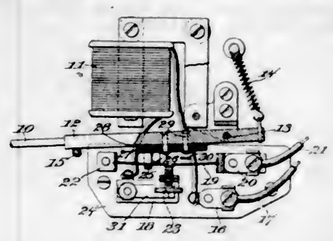
1. A concrete comprising a cementitious binding material, a liquid, and a woody fibrous material which has been previously treated with a solution of sodium silicate and has been washed after the liquor resulting from said treatment has been removed therefrom.

1,471,877. RAILROAD-CROSSING SIGNAL. CHRISTOPHER C. ATKINSON, Hawkinsville, Ga. Filed Mar. 30, 1923. Serial No. 628,822. 8 Claims. (Cl. 246—293.)



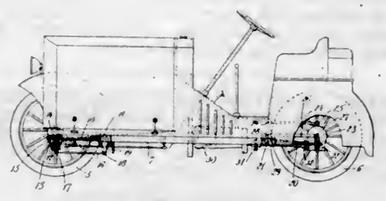
3. A signal device comprising a frame, a signal member mounted in the frame to move downwardly to signalling position, means for normally raising said signal member out of signaling position and operable to permit the signal member to move downwardly, and a latch to engage the signal member and hold it in lowered signaling position against the action of said means.

1,471,878. ELECTRIC GONG. GEORGE H. BICKELL, Brookline, Mass., assignor to The Holtzer-Cabot Electric Company, Roxbury, Mass., a Corporation of Massachusetts. Filed Oct. 13, 1919. Serial No. 330,281. 3 Claims. (Cl. 177—7.)



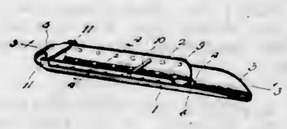
1. An electric gong having, in combination, an electromagnet, a movable armature cooperating therewith, an electrical circuit connected with the electromagnet, an arched contact spring included in the circuit, and a plate connected with the armature and having two arms formed integral therewith, one of the arms being adapted to flex the contact spring to break the circuit after movement of the armature a substantial portion of the distance toward the magnet and the other arm being adapted to flex the spring in the opposite direction to close the circuit upon movement of the magnet toward its original position.

1,471,879. MOTOR VEHICLE. CECIL M. BILLINGS, Brooklyn, N. Y., assignor to Delmore Manufacturing Co., Inc., New York, N. Y., a Corporation of New York. Filed Oct. 2, 1919. Serial No. 327,997. 4 Claims. (Cl. 280—106.5.)



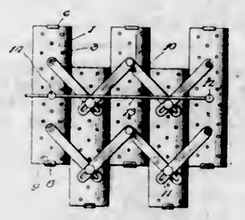
1. In a vehicle spring suspension, the combination with a vehicle frame and axle housing, of a pair of leaf springs secured to the frame and having each a sliding pivotal engagement with the axle housing and two pairs of pivoted radius rods extending from the frame to the axle housing with the rods of one pair disposed in substantial parallelism with the rods of the other pair.

1,471,880. HAIR-WAVING APPLIANCE. RAMON BOVÉ, New York, N. Y. Filed Oct. 17, 1922. Serial No. 595,078. 7 Claims. (Cl. 132—32.)



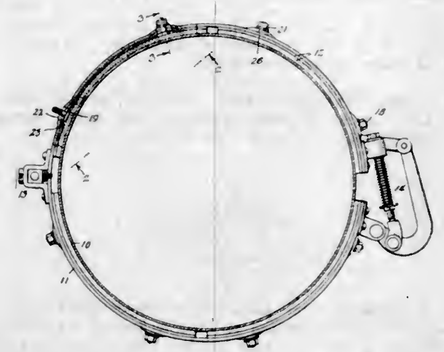
7. A hair-waving device comprising a pair of co-operating trough-like members, a yieldable connection between said members at one end, means at the opposite end of the upper member for locking the members together, and a cross pin upon the upper member adjacent the edges of the same whereby said member may be moved pivotally and longitudinally with respect to the lower member.

1,471,881. HAIR-WAVING APPLIANCE. RAMON BOVÉ, New York, N. Y. Filed Oct. 17, 1922. Serial No. 595,077. 3 Claims. (Cl. 132—32.)



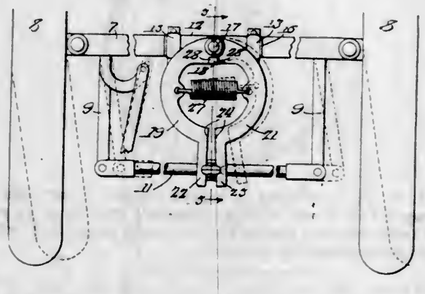
3. A hair-waving device comprising a set of hair-engaging units, link connections between the several units whereby they may have relative movement toward and from each other lengthwise of the set and also for relative endwise movement transversely of the set, posts pivotally mounted on the under sides of some of the units, a locking pin carried by one of said posts and extending through the other post, and means carried by the latter post for locking the pin therein.

1,471,882. DEMOUNTABLE BRAKE BAND. CARL EDWIN CARLSON, Brooklyn, N. Y. Filed June 14, 1922. Serial No. 568,285. 6 Claims. (Cl. 188—249.)



3. A device as set forth in claim 1 in which the fastening means for the shoes comprises a series of T-headed bolts, the heads being insertable radially of the brake from the outside of the strap.

1,471,883. AUTOMATIC STEERING ATTACHMENT FOR MOTOR VEHICLES. GEORGE B. COOLIDGE, Rockford, Ill. Filed May 23, 1921. Serial No. 471,755. 1 Claim. (Cl. 280—94.)

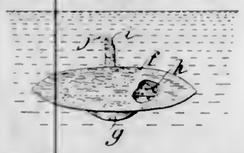


An automatic steering attachment for motor vehicles comprising in combination with the axle and steering wheel connecting rod, a bracket shaped to seat on the axle and having cast integrally therewith an upstanding pivot pin and upstanding stop lug, a pair of levers each pivoted at one end of said pivot pin one above the other in the horizontal plane of said stop lug, each lever being recessed for the reception of said lug and one wall of each recess abutting against said lug for limiting inward movement of its lever, a contractile spring for drawing said levers together against said lug and opposing outward movement of the respective levers, means on the upper end of the pivot pin for preventing displacement of the levers, the rear end of each lever having an elongated inner face, an upstanding lug on the connecting rod comprising two duplicate half sections adapted to be clamped against the front and back of said rod, and a bolt above and another below said rod connecting said lug sections together and clamping them to the rod, said lug sections being disposed centrally between said inner lever faces on a centerline passing through the center of said upstanding lug and pivot pin on the bracket.

1,471,884. INK COMPOSITION. ROBERT R. DEMENT, Hamilton, Ohio. Filed Apr. 8, 1922. Serial No. 550,867. 3 Claims. (Cl. 134—28.)

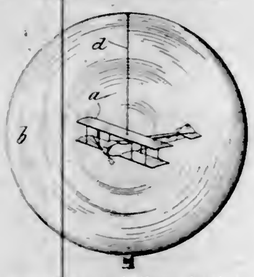
3. An ink for drawing designs comprising three parts carbonate of ammonium for liberating gas upon the application of heat, one part pigment, and nine parts gum acacia forming a binder for confining the gas liberated by the carbonate of ammonium to form a fixed design of the ink in relief.

1,471,885. FLOATING TOY. MORLAND MICHOLL DESSAU, London, England. Filed Apr. 19, 1923. Serial No. 633,286. 2 Claims. (Cl. 46—40.)



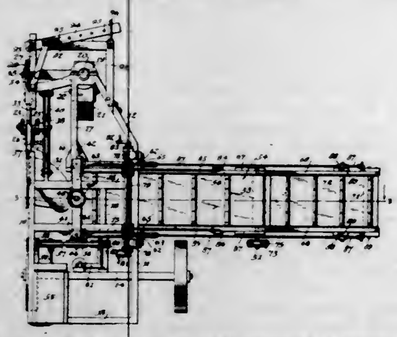
2. An aquatic toy consisting of crape rubber and a heavier rubber combined to form a floating toy figure, said figure having a body portion with a vertical axis exceeding its horizontal transverse axis, said body portion being composed of crape rubber and an inconspicuous lower portion composed of heavier rubber, whereby the figure is caused to float in water with the sides thereof arranged vertically.

1,471,886. TOY BALLOON. MORLAND MICHOLL DESSAU, London, England. Filed Apr. 19, 1923. Serial No. 633,287. 2 Claims. (Cl. 46—46.)



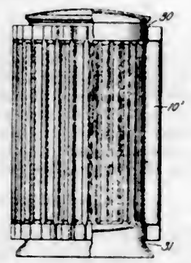
1. A toy comprising a balloon having a toy figure composed of a soft material suspended therein so as to be freely movable and to produce sound by shaking said toy, substantially as described.

1,471,887. EXCAVATOR. WILLIAM DORNEY and MICHAEL QUINT, Hays, Kans. Filed June 3, 1922. Serial No. 565,533. 4 Claims. (Cl. 37—110.)



1. In an apparatus of the class described, a supporting frame mounted on carrier wheels, an excavating element including a beam member swingingly coupled at its forward end to the frame and provided with an elongated slot intermediate the ends, a crank arm mounted on said frame and operatively engaging said slot, means for oscillating said crank arm to control the depth of action of the excavating element, an elevating device in position to receive the material from said excavating element, and means for vertically adjusting the receiving end of the elevating device to correspond to the adjustment of the excavating element.

1,471,888. RADIATING CASING FOR ELECTRICAL APPARATUS. MATTHEW L. ELDER, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed July 16, 1920. Serial No. 396,824. 6 Claims. (Cl. 257—191.)



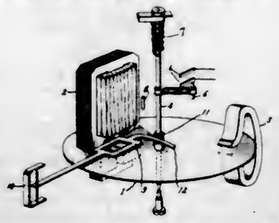
5. The combination with top and bottom casing members having welding edges, of a plurality of W-shaped corrugated units having pinched ends with flat backs secured to said welding edges, said units being welded together along longitudinal edges to complete a radiating casing.

1,471,889. SAFETY KNIFE FOR TRIMMING SHOE SOLES. OLE ERICKVAM, Prairie Farm, Wis. Filed May 27, 1921. Serial No. 473,022. 4 Claims. (Cl. 30—20.)



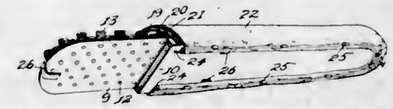
1. A cobbler's knife formed of an integral piece of flat metal slightly curved longitudinally and having substantially straight diverging side edges, said knife having a cutting edge extending diagonally across one end thereof and also having a cutting edge extending partially along one side and having a bead along the opposite side extended beyond the end of said diagonal cutting edge to form a gauge.

1,471,890. PROTECTIVE DEVICE. HENRY G. FRENCH, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 24, 1919. Serial No. 333,018. 6 Claims. (Cl. 200—91.)



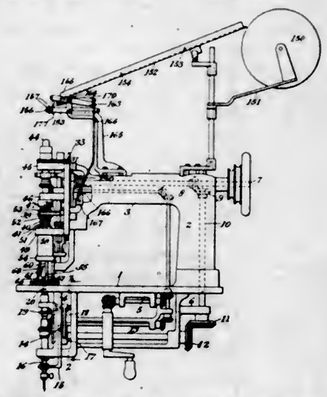
2. An induction relay comprising a rotatably mounted circular disk, contacts controlled by the movement thereof, restraining means for holding said disk in initial position, electromagnetic torque-producing means inductively associated with said disk operative in response to a current above a predetermined amount to overcome said restraining means and start said disk moving in contact controlling direction, and means affecting the torque exerted by said torque producing element whereby the current required to cause said torque producing means initially to overcome said restraining means is sufficient to complete the movement of said disk to contact controlling position.

1,471,891. PRESSING PAD. CHARLES M. GOUGH, East St. Louis, Ill. Filed Apr. 14, 1922. Serial No. 552,462. 3 Claims. (Cl. 68—9.)



2. A pressing pad of the character described comprising a base plate, springs placed on the base plate and located at suitable intervals apart, a covering placed over the springs and integral projections formed on the ends and sides of the base plate by which the base plate may be clamped to the ironing machine, substantially as specified.

1,471,892. BEAD-SEWING MACHINE. JOSEPH A. GROEBLI, New York, N. Y. Filed Feb. 18, 1921. Serial No. 445,943. 16 Claims. (Cl. 112—99.)

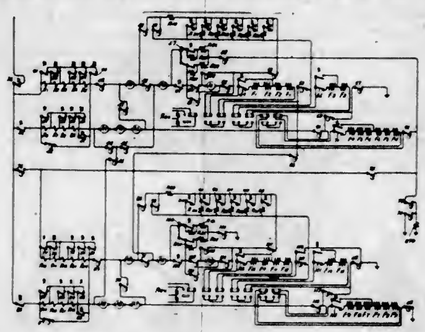


1. The combination, in a bead sewing machine embodying a reciprocating needle, and a bead-separator, of a cooperating, rotatable looper, and a lateral bead guard associated with the looper.

1,471,893. SYSTEM AND APPARATUS FOR POWER TRANSMISSION AND REGENERATIVE BRAKING. WILLIAM S. H. HAMILTON and RUDOLPH D. KRAPE, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Oct. 15, 1921. Serial No. 507,985. 38 Claims. (Cl. 172—179.)

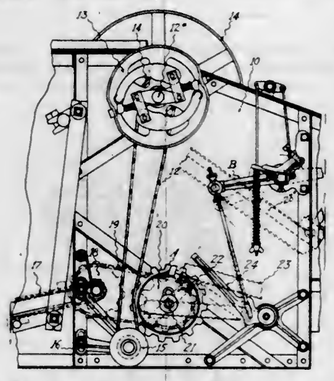
1. In a system of control for a plurality of series wound dynamo electric machines adapted to either operate as motors to drive a common load or as braking generators to retard the load, comprising a series parallel main controller, a braking controller cooperating therewith, and connections whereby moving the series parallel controller to a definite position and the braking controller to a definite position establishes the machines in a plurality of substantially similar series connected groups with a portion of the machines in each group connected to operate as a self excited exciter for the field windings of the remainder of the machines in the group for electric braking.

37. Controlling means for a plurality of series dynamo electric machines adapted to either operate as motors to drive a common load or as braking generators to retard the load, comprising a series parallel main controller, a braking controller cooperating therewith, switch mecha-



nism controlled by the said controllers, and a handle for the braking controller movable in one direction to cause the said switch mechanism to select one of a plurality of particular braking relations of the machines and movable in another direction to regulate the braking effect of the relation thus selected.

1,471,894. FEEDER. ARTHUR J. HARTLEY, Peoria, Ill., assignor to Hart Grain Weigher Co., Peoria, Ill., a Corporation. Filed Nov. 21, 1921. Serial No. 516,524. 7 Claims. (Cl. 130—1.)

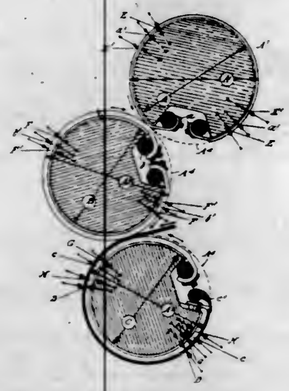


1. In a feeding device, in combination, a feeder mechanism including a constantly operating power shaft, a conveyer member operated by the power shaft, upper and lower feeder elements, a crank shaft having operable connection with said power shaft, and carrying the lower feeder element, and means for automatically reducing the speed of the conveyer and crank shaft including, a sprocket wheel loosely mounted on the crank shaft, a housing member, a spider keyed to the crank shaft and having gears thereon in engagement with the housing member and sprocket wheel, and means including a trip mechanism for providing an optional locking of the housing member with the sprocket wheel.

1,471,895. METHOD OF AND MEANS FOR PREPARING CYLINDERS OF OFFSET PRINTING MACHINES. WILLIAM C. HUEBNER, Buffalo, N. Y. Filed Oct. 23, 1918. Serial No. 259,420. 9 Claims. (Cl. 101—217.)

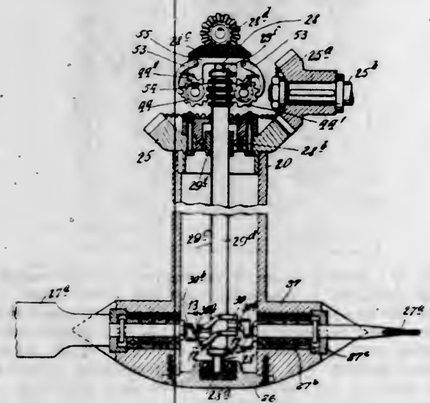
1. In an off-set printing machine, the combination of a plurality of cylinders, said cylinders having equal gear pitch-line diameters and each of said cylinders having

a peripheral diameter which is a known amount less than the pitch-line diameters, a printing plate secured on one of said cylinders of a known thickness less than the radial difference between its cylinder and the pitch-line thereof, and an underlay placed between said cylinder



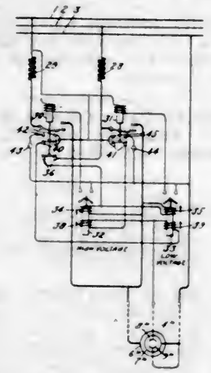
and its printing plate and being of known thickness equal to the radial difference between the cylinder plus the thickness of the plate and said pitch-line, so that the combined thickness of said underlay and printing plate will give the external cylindrical surface of said printing plate a diameter equal to the pitch-line diameters.

1,471,896. PROPELLER FOR VESSELS. BAPTISTE ICRE, New York, N. Y. Filed July 1, 1916. Serial No. 107,017. 10 Claims. (Cl. 170—163.)



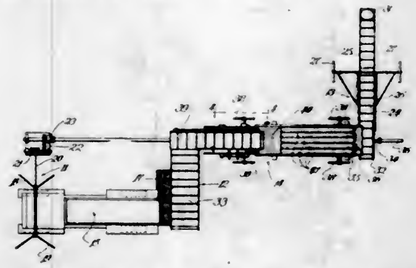
1. A structure adapted for use as a propeller, comprising a rotary member, feathering blades pivoted to said member, blade-swinging members connected with said blades, a normally stationary track for guiding and operating said blade-swinging members, said track including a portion adjustable relatively to the remaining portion of the track, in a direction lengthwise of the axis of said rotary member, the track being further adjustable bodily by turning it about said axis, and means connected with said track to share the turning adjustment thereof and in permanent engagement with said longitudinally movable track portion to effect its adjustment relatively to the remaining portion of the track.

1,471,897. BATTERY-CHARGING SYSTEM. HARRY M. JACOBS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 6, 1921. Serial No. 459,111. 13 Claims. (Cl. 171—314.)



1. In a battery charging system, the combination of a source of charging current, a battery, a manually controlled switch connected between said battery and said source and arranged to complete a circuit in which the direction of current depends upon the relative voltages of said battery and said source, and means controlled by the direction of current in said circuit for completing a charging circuit between said battery and said source.

1,471,898. CORN HUSKER AND THE LIKE. ALONZO R. KEELER, Altona, Ill. Filed Feb. 13, 1922. Serial No. 536,163. 5 Claims. (Cl. 130—5.)

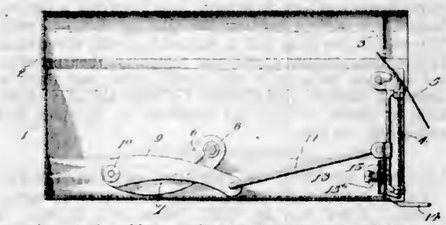


4. A plant for receiving, husking, and conveying and elevating ear corn comprising in combination a hopper conveyor, husking mechanism including rolls for removing the husks from the corn, and an elevator for carrying the unhusked corn from the hopper conveyor to said rolls, and an elevator conveyor adapted to receive the husked corn delivered by the husker and raise the same to a suitable point, all of said mechanisms being suitably positioned with respect to each other for the continuous transfer of the corn from the hopper conveyor to the elevator conveyor, and an aligned power shaft extending through the elevator conveyor for operating its elevating and conveying mechanism, through the husking mechanism for operating its elevating and husking instrumentalities, and through the hopper conveyor for operating its conveying mechanism, substantially as described.

1,471,899. MAIL BOX. AUGUST KOENIG, Murphysboro, Ill., assignor of one-half to William Koenig, Murphysboro, Ill. Filed Apr. 10, 1922. Serial No. 551,200. 2 Claims. (Cl. 232—17.)

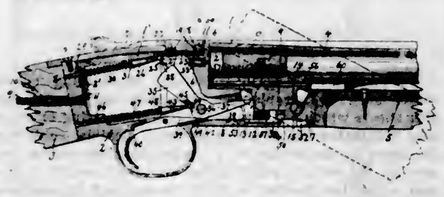
1. In a mail box, a body portion, a drawer, a hinged front member, pins carried by the sides of the drawer,

links connected to said pins and turning thereon, means connecting a portion of said links to the hinged front



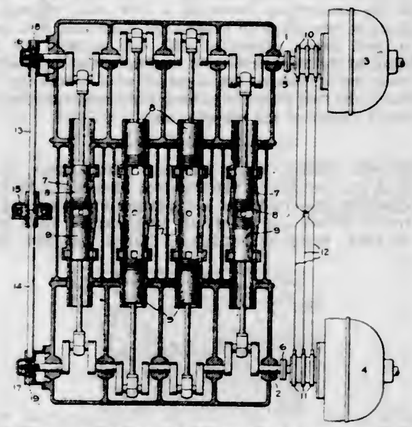
member, and guides carried by the box and guiding sliding movement of the other links, as and for the purpose set forth.

1,471,900. BREECH-LOADING SINGLE-BARREL GUN. FRANK LE FEVER, Fulton, N. Y. Filed Oct. 21, 1919, Serial No. 332,249. Renewed Sept. 4, 1923. 3 Claims. (Cl. 42—43.)



1. The combination with the frame and barrel of a breech-loading gun, of means for locking and releasing the barrel and frame in and from their closed positions, said means comprising a locking bolt slidable transversely of and upon the frame, a lever pivoted to the frame and having one end engaged with the bolt for shifting the same, a plunger extending lengthwise of the gun and having one end bearing upon the frame and its opposite end spring-pressed into engagement with said lever, to force the bolt to its locking position, and means controlled by the opening of the gun for holding the locking bolt from its locking position.

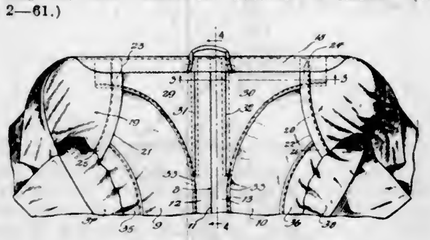
1,471,901. SYNCHRONIZING OF SHAFTS. HERMANN LEMP, Erie, Pa., assignor to General Electric Company, a Corporation of New York. Filed Oct. 6, 1921. Serial No. 505,709. 6 Claims. (Cl. 290—4.)



2. The combination with two shafts and generators driven thereby, of means for synchronizing the shafts comprising slip rings on the shafts which are electrically connected to the generators and to each other and a mechanical connection between the two shafts, said mechanical connection comprising a shaft formed of a plurality of parts connected by a spring coupling means.

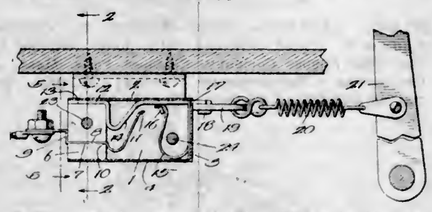
5. The combination with an internal combustion engine having opposed pistons, separate shafts driven thereby, and electric generators driven by the shafts, of means for synchronizing said shafts comprising electrical and mechanical connections between the two shafts and in parallel to each other.

1,471,902. COAT AND THE LIKE. HENRY M. LINDENTHAL, Chicago, Ill., assignor to H. M. Lindenthal & Sons, Chicago, Ill., a Corporation of Illinois. Filed Aug. 10, 1922. Serial No. 580,826. 2 Claims. (Cl. 2—61.)



2. As a new article of manufacture, a coat of adjustable size having a pair of back panels joined together by a vertical central seam, with flaps at said seam lying against the inside face of the garment, a shoulder panel lying against the inside face of each shoulder of the garment and secured thereto at its upper edge and also adjacent to the sleeve opening, a collar section along the upper edge of the garment, a rib extension on the upper portion of each of the flaps first mentioned and extending sidewise to the collar section to overlap the upper portion of the corresponding shoulder panel, and adjustable connection between the upper edge of each rib and the collar section, and an adjustable connection between the end of each rib and the adjacent shoulder panel, whereby the shoulder panels and collar section are directly supported by the seam flaps through the medium of the ribs, and whereby the upper interior portion of the garment is held together and reinforced independently of the back panels, and whereby the size of the garment may be changed by changing the back seam and the connections of the ribs to the collar section and to the shoulder panels, substantially as described.

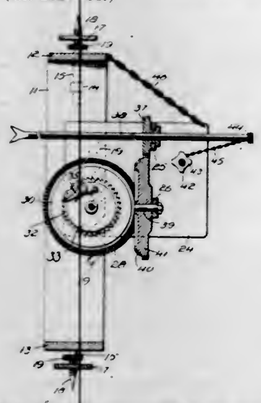
1,471,903. ELECTRIC SWITCH. JOHN F. LINDBERG, Chicago, Ill. Filed Apr. 8, 1922. Serial No. 550,895. 5 Claims. (Cl. 200—161.)



1. In a switch, the combination with a holder having two angularly related walls, one of these walls constituting a guide wall and the other an abutment wall; of a mounting block of insulating material assembled with the holder at the end thereof remote from said abutment wall and alongside of said guide wall from which it is spaced apart to form a guideway, said mounting block having a slit formed therein; a leaf spring contact element inserted in the slit in said block and formed with offset portions to obstruct its movement along the slit, said leaf spring having its contacting end between the mounting block and the abutment wall; a reciprocable

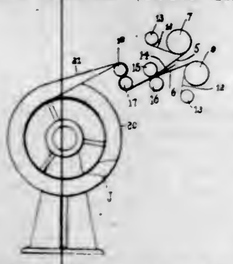
contacting bar having a portion within the space between the mounting block and the guide wall and formed with an offset portion between the mounting block and the contacting end of the leaf spring from which contacting end the offset portion of said bar is normally separated; and a retractile leaf spring of U-form having one side in engagement with the abutment wall and its other side coupled with said bar, there being a lug struck from the bar and having engagement with said leaf spring which serves to restore the bar to circuit opening position with the offset portion of the bar against said block.

1,471,904. DRILLING MACHINE. BEN LIPPIS, Chandler, Colo. Filed Oct. 25, 1921. Serial No. 510,380. 4 Claims. (Cl. 255—46.)



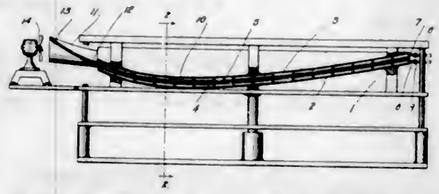
1. A drilling machine comprising a portable frame having superposed slots in the sides thereof forming aligning seats, an adjustable housing positioned in said support, a gear rotatably mounted in the rear of the housing and formed with a polygonal shaped opening, a longitudinally shiftable drill formed with a polygonal shaped stem extending through said opening, a shaft extending through said housing and mounted on a pair of aligning seats, said slots providing means for the vertical adjustment of said shaft and housing, a driven element supported at the rear of the housing and meshing with said gear for rotating the drill, a pair of drive gears mounted on the shaft and meshing with said driven element, means for independently and detachably coupling the drive gears to said shaft, and a winding shaft carried by the housing and having flexible connection with said drill for shifting it longitudinally.

1,471,905. APPLYING CORD FABRIC TO CORES. THOMAS P. LITTLE, Chicopee Falls, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Apr. 30, 1921. Serial No. 465,826. 4 Claims. (Cl. 154—14.)



1. The method of building cord tires which consists in laminating a plurality of rubberized cord plies with the cord angles in one ply reversed with respect to an adjacent ply to form a cohesive strip, applying the forward end of said strip under tension to a building core while forming the rear end from said plies, inserting a non-adhesive liner section between the plies as they are being formed into the strip and at spaced intervals determined by the circumference of the core periphery, then breaking the strip on the core at the section where the liner is, making a desired joint between the separate plies of the strip by means of the ends separated by the liner, and completing the tire.

1,471,906. METHOD OF FORMING CURVED BODIES FROM FIBER SHEETS. ALBIN K. LONGREN, Topeka, Kans. Filed Apr. 10, 1922. Serial No. 551,055. 4 Claims. (Cl. 18—56.)



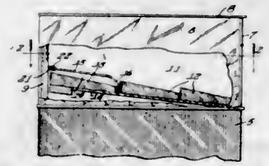
1. The herein described method of forming curved bodies such as aeroplane bodies from hard vulcanized fiber sheets which consists in soaking, immersing or otherwise saturating the sheet to render it flexible, subjecting the sheet to the action of a heated forming matrix, and opening the matrix and blowing air therethrough to produce a positive circulation of air to carry off the moisture from the sheet to dry the same uniformly and thereby preserve the set or shape of the sheet.

1,471,907. MACHINE FOR HEADING PORCELAIN TUBES AND THE LIKE. ALBERT G. MASON and LORENZO C. BUCKLEY, Lisbon, Ohio, assignors to The R. Thomas & Sons Company, East Liverpool, Ohio, a Corporation of Ohio. Filed Mar. 4, 1922. Serial No. 541,250. 5 Claims. (Cl. 25—3.)



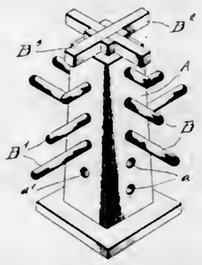
1. In a tube-heading machine, a stationary die, a movable die cooperating therewith, a feed table adapted to support a tube blank in substantial alignment with said dies, and means associated with the movable die for picking up the blank from said feed table and introducing it into the stationary die, together with means for depressing the feed table and holding it depressed during the working travel of the movable die.

1,471,908. SHOW CASE. HENRY G. MICHAELSON, Rockford, Ill., assignor to The Rockford Showcase & Fixture Company, Rockford, Ill., a Copartnership consisting of Ole G. Nelson and Henry G. Michaelson. Filed Mar. 28, 1922. Serial No. 547,399. 6 Claims. (Cl. 211—25.)



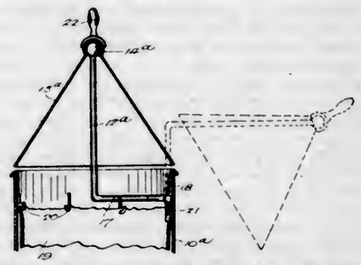
1. In a showcase, the combination of a transparent casing, a door providing access thereto, means for supporting a tier of display trays in said casing, a transparent partition within said casing separating said tier of trays to prevent communication of air from one to another, said partition reaching into proximity to said door, and means for sealing the opening between the partition and door.

1,471,909. WINDOW AND SHOW-CASE DISPLAY RACK. LESLIE ERNST MILLER, Knoxville, Tenn. Filed May 9, 1921. Serial No. 467,999. 4 Claims. (Cl. 211—14.)



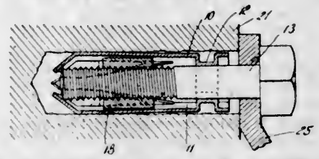
2. A display rack comprising a sectional standard, the lower section being hollow and having a vertically movable section housed therein, said sections having a plurality of vertical series of alined registering holes therethrough, one series extending substantially at right angles to another series, and pins removably inserted in each series of holes and projecting in opposite directions from opposite sides of the standard, one series of pins projecting substantially at right angles to another series, and each series gradually increasing in length from the uppermost to the lowermost one in the series.

1,471,910. CONTAINER. GERALD J. MULLIGAN, Columbus, Ohio. Filed Dec. 8, 1921. Serial No. 520,964. 5 Claims. (Cl. 220—32.)



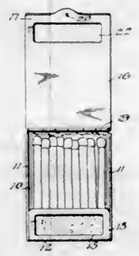
1. A container having an upper open end, a stem rising axially from the container above its said upper end, and a cover having a universally movable connection axially thereof upon the upper end of the said stem.

1,471,911. BOLT ANCHOR. RALPH EDWARD OGDEN, Mountainville, N. Y., and CHARLES C. TOMKINSON, Plainfield, N. J., assignors to J. Edward Ogden, Mountainville, N. Y. Filed July 22, 1921. Serial No. 486,743. 24 Claims. (Cl. 85—24.)



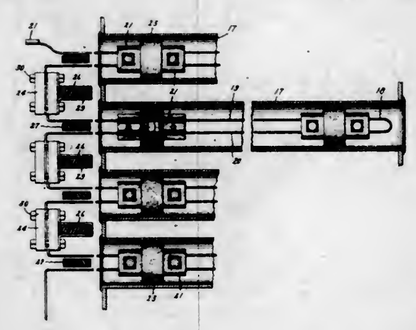
1. In combination, an expansion shield comprising a plurality of sections, each section having a notch therein spaced from the longitudinal edges thereof and a nut having portions disposed within said notches.

1,471,912. MATCH CASE. JULIUS OPPENHEIM, New York, N. Y., assignor to Dasco Import Co. Inc., New York, N. Y., a Corporation of New York. Filed July 20, 1922. Serial No. 576,324. 2 Claims. (Cl. 206—33.)



2. The combination with a match box comprising a back having a piece to partly overlie a package of matches, said holding piece having its central portion open to provide an aperture through which the matches may be ignited on the friction material on the package, of a hinged lid or cover for said box having an aperture which is adapted to register with the aperture of said holding piece when the lid or cover is closed to afford means through which the matches may be ignited.

1,471,913. ELECTRIC HEATER. ALBERT N. OTIS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 2, 1921. Serial No. 458,007. 3 Claims. (Cl. 219—38.)

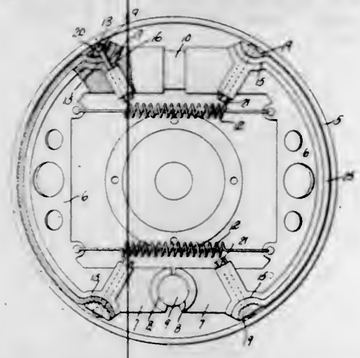


1. A self contained electric heating unit consisting of a self-supporting strip of resistance material bent in the form of a hairpin, and provided with spacing and supporting insulators intermediate the length thereof, whereby the unit can be freely slid into an elongated heating space.

1,471,914. BRAKE STRUCTURE. VICTOR W. PAGE, New York, N. Y. Original application filed Mar. 24, 1921, Serial No. 455,039. Divided and this application filed Dec. 14, 1921. Serial No. 522,311. 1 Claim. (Cl. 188—78.)

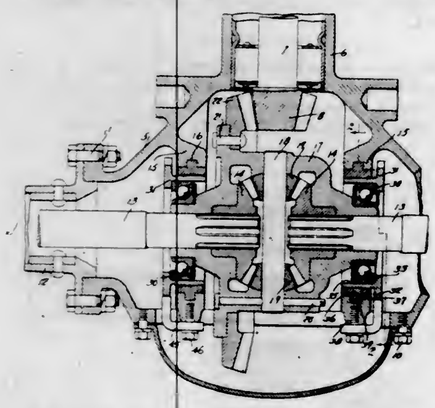
A shoe having curved seats, a friction surface, and means for securing the friction surface to said shoe in the curved seats, said means comprising blocks having an opening therethrough and a curved serrated

face and a bolt passing through said blocks and shoe and adapted to cause the curved serrated face of the



blocks to seat in the curved seats, the serrations on the curved face of the blocks serving to place the friction surface under tension on the shoe.

1,471,915. DIFFERENTIAL. VICTOR W. PAGE, New York, N. Y. Filed Dec. 24, 1921. Serial No. 524,678. 1 Claim. (Cl. 74—99.)

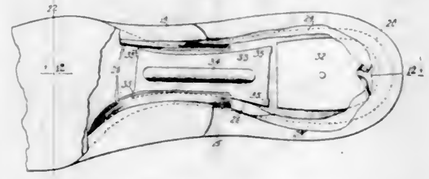


In a driving axle structure, a main housing, a differential mechanism mounted in said housing, and means for supporting said differential mechanism in said housing, said means comprising spaced semi-circular web members formed on said housing on the interior thereof, said web members each having an annular groove, a semi-circular member adapted to co-act with each of said semi-circular web members, said semi-circular web members each having an annular groove forming a continuation of the groove in its respective semi-circular web member, a continuous ring member mounted in each semi-circular web member and secured therein by their respective semi-circular member, said continuous ring members each having an external annular rib adapted to be received in the continuous groove of its respective semi-circular web member and semi-circular member, a bearing mounted internally of each of said continuous ring members and spaced with respect thereto, and a ring member interposed between each of said bearings and its respective continuous ring member, said second mentioned ring members each having threaded engagement with its respective first mentioned continuous ring member to provide for adjustment of the bearings.

1,471,916. MOTOR FUEL. WILLIAM C. PERRY, Kansas City, Mo. Filed Feb. 27, 1922. Serial No. 539,771. 3 Claims. (Cl. 44—9.)

1. A motor fuel consisting of gasoline and naphthylamin in solution.

1,471,917. SHOE AND METHOD OF MAKING SHOES. CHRISTY REGGIO, Richmond Hill, N. Y., assignor of one-half to Henry C. Stockman, Englewood, N. J. Filed Aug. 18, 1921. Serial No. 493,315. 2 Claims. (Cl. 12—142.)



1. A shoe comprising the herein defined sole, and a shank-stiffening device, the sole being a single piece of stock and being split behind the ball into two sections, these being an outer section and an inner section, and the ball having in it a channel such as is commonly made in the sole of a turn-shoe, the stiffening-device being between said sections and attached to the inner section, the front portion of the upper being sewed to the solid ball of the sole, the stitches passing from the channel through the stock which is between it and the edge of the sole and thence through the upper from the exterior to the interior thereof, and other portions of the upper extending between and being sewed to both of said sections at the sides of the shank.

2. The herein defined method of making a shoe comprising an ordinary upper, a shank-stiffening device, and a sole consisting of a single piece of stock split behind the ball into two sections, these being an outer section and an inner section, and the ball having in it a channel such as is commonly made in the sole of a turn-shoe, the method consisting in first lasting the sole and upper inside out, then sewing the front portions of the upper and ball of the sole together as the sole and upper of a turnshoe are commonly sewed together, then removing the last, then turning the upper and sole, then putting them right side out on a last after the counter has been inserted in the upper, then drawing portions of the upper and counter over the edges of the inner section of the sole and nailing those portions to that section and laying the shank-stiffening device on and fastening it to that section, then placing the outer section of the sole over the inner section, shank-stiffening device and nailed portions of the upper and counter and removing the last, then sewing together said sections and those portions of the upper which extend between them, from the ball to the heel-seat, and then finishing the shoe as a shoe is commonly finished after the upper and sole have been sewed together.

1,471,918. FARE INDICATOR. THOMAS L. ROBERTS, Jr., Pittsfield, Mass. Filed Dec. 16, 1922. Serial No. 607,366. 4 Claims. (Cl. 116—134.)

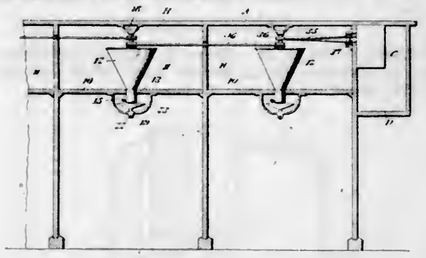
4. An indicator having a base, a signal plate movable relatively thereto from a closed to an open position and provided with a substantially flat portion to engage the base in the latter position, a rod carried by the signal plate, a resilient connection between the rod and base to maintain said portion in contact with the base, said connection being yieldable automatically through and to permit movement of the plate from one position to the other, a second signal plate, said second signal plate having a substantially flat portion to engage different parts of the first portion in its open and closed

positions, respectively, and a resilient connection between the second signal plate and said rod to maintain the substantially flat portion of the second signal plate



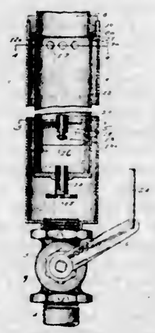
in contact with the first signal plate and to permit movement of the second signal plate from one position to the other.

1,471,919. POULTRY FEEDER. EMERY M. ROBINSON, River Rouge, Mich. Filed July 24, 1918. Serial No. 246,550. 2 Claims. (Cl. 161—10.)



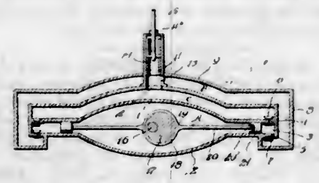
1. A poultry feeder embodying a hopper provided with a feed outlet, an agitator within said hopper, a time mechanism including a striking mechanism connected to said agitator whereby the latter will be operated to force feed from the hopper at regular intervals and a stud actuated cam positioned upon the arbor of the hour hand and controlling the operation of the striking mechanism to automatically and alternately interrupt and resume operation of the agitator at predetermined intervals.

1,471,920. FLUSHING MECHANISM FOR TOILETS. FLETCHER C. ROOD, Walla Walla, Wash. Filed Nov. 5, 1919. Serial No. 337,222. 4 Claims. (Cl. 137—93.)



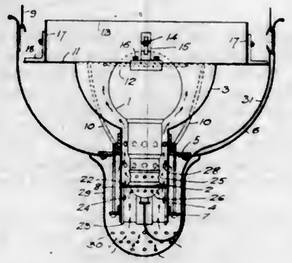
1. In a device of the character referred to, in combination, a tubular member, a valve controlling the inflow of water to the lower end thereof, an inner tubular member providing an annular space between said members, means for attaching an outlet pipe to the upper end of said inner tubular member, said inner member having inlet openings through its wall at the upper end thereof, and having an inlet at its lower end, a valve member in said inner tubular member adapted to be bodily raised to the upper end thereof by inflowing water, said valve member being adapted to close the openings through the side of said inner member when it reaches the upper end thereof, and a valve-controlled passageway through said valve member adapted to permit water to pass through said passageway after said valve member has reached its upward limit.

1,471,921. FLUID BRAKE. LEMMA J. ROOT, Seattle, Wash. Filed Dec. 11, 1919. Serial No. 344,231. 4 Claims. (Cl. 188—91.)



1. In combination with a rotatable shaft, means of the type described including pistons eccentrically connected with the shaft, a plurality of communicating chambers arranged within each other, one of said chambers receiving the pistons, valves for controlling circulation of fluid through said chambers upon reciprocation of the pistons, and a valve for closing communication between said chambers to induce compression to retard reciprocation of said pistons to regulate the rotation of the shaft.

1,471,922. INDIRECT LIGHTING. PERCY ROSS, Liverpool, England. Filed Aug. 21, 1922. Serial No. 583,309. 4 Claims. (Cl. 240—78.)

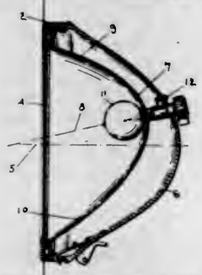


1. Indirect lighting apparatus, comprising an inverted electric lamp, a reflector round the lamp, a guide tube depending from the reflector, an element slidable in the tube and carrying the lamp, means for adjusting the lamp relatively to the reflector, and adjustable deflector reflecting surfaces above the reflector by which the cone of light issuing from the lamp and reflector may be so masked as just to illuminate the ceiling or upper part of rooms of varying shapes.

1,471,923. NONGLARING HEADLIGHT. HERMAN R. SAXON, Toledo, Ohio, assignor, by mesne assignments, to Electric Auto-Lite Corporation, Toledo, Ohio, a Corporation of Delaware. Filed May 8, 1916. Serial No. 95,992. Renewed Mar. 27, 1923. 4 Claims. (Cl. 240—41.)

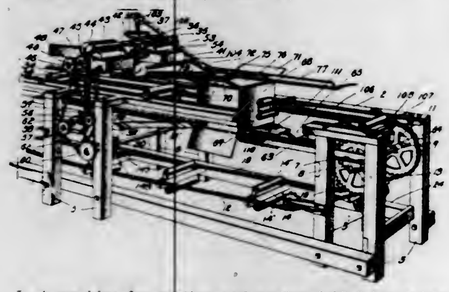
1. A lamp comprising the combination of a substantially paraboloidal housing, a paraboloidal reflector having a a single focus and axis and formed by cutting a paraboloid

obliquely to its axis, said reflector being disposed in said housing with its axis inclined at an angle to the



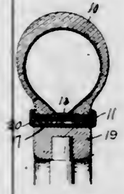
axis of the housing and with its focus disposed above the axis of the housing, and a source of light disposed substantially at the focus of the reflector.

1,471,924. BOX-SEALING MACHINE. HENRY A. SAYLOR, ARTHUR S. PECK, and PAUL A. DINSMOOR, Lawrence, Kans., assignors to Lawrence Paper Manufacturing Company, Lawrence, Kans., a Partnership composed of M. G. Bowersock, Irving Hill, Paul A. Dinsmoor, Hortense B. Hill, Mary B. Dinsmoor, Jean B. Blackwelder, and Margery B. Dalton. Filed May 16, 1921. Serial No. 470,033. 11 Claims. (Cl. 93—7.)



1. A machine for pasting and sealing folded boxes having end flaps, comprising a table over which the boxes are adapted to travel, the table having alternating recesses through which the flaps may drop in sequence, and a superposed table above the first named table for supporting the boxes throughout a part of their travel, the superposed table being of substantially uniform width whereby the contents of the boxes will be held against displacement during the time that the flaps are in dropped positions.

1,471,925. COLLAPSIBLE RIM. HENRY SCHAECHTERLE, Fullerton, Nebr. Filed Aug. 14, 1920. Serial No. 403,494. 2 Claims. (Cl. 301—32.)

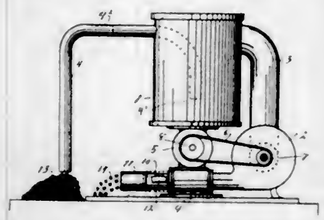


1. A removable rim comprising a body portion formed of a series of segment-shaped sections arranged in end engagement and provided in the inner faces thereof at the opposed ends with registering recesses, the recesses of one pair of registering recesses opening laterally, a locking member pivotally connected to one wall of a laterally opening recess and detachably connected with one wall of the other laterally opening recess whereby a pair of sections are detachably connected together, and a hinge mounted in each of a pair of registering recesses and secured to a pair of sections for hinging them together, said member and hinges flush with the inner faces of said sections.

1,471,926. PROCESS OF RECOVERING BY-PRODUCTS FROM GASES GENERATED BY THE DRY DISTILLATION OF COMBUSTIBLES. JOSEF SCHÄFER, Dortmund, Germany. Filed Dec. 3, 1920. Serial No. 428,172. 6 Claims. (Cl. 23—21.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. The process of recovering by-products from gases generated by the dry-distillation of combustibles, which consists in first cooling and washing said gases solely with ammoniacal water condensed from said gases; separating from said ammoniacal water the tar which it has taken up from the gases during said cooling operation; cooling said tar-freed ammoniacal water; reusing said cooled ammoniacal water for cooling and washing raw distillation-gases; drawing off a portion of said ammoniacal water employed in washing said gases; distilling said drawn-off ammoniacal water; cooling by evaporation said distilled ammoniacal water now chiefly containing fixed ammonia; using the ammoniacal water thus distilled and cooled by evaporation for washing tar-freed distillation gases.

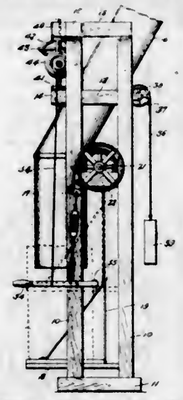
1,471,927. CONVEYER. HENRY A. SCHUTT and JULIUS N. DUNNEBACKE, Grand Rapids, Mich. Filed Oct. 10, 1921. Serial No. 506,688. 1 Claim. (Cl. 302—17.)



In a pneumatic conveyer, a vertically disposel cylindrical distribution chamber, an intake pipe entering said chamber near the upper end and curving inwardly and downwardly to a point near the center of the bottom of the chamber, a discharge chamber below the distribution chamber, a discharge pipe below the discharge chamber, the discharge chamber forming an opening between the distributing chamber and the discharge pipe, an exhaust pipe opening from the upper end of the distributing chamber, passingly downwardly, then horizontally and opening into one end of the discharge pipe, an exhaust fan in the line of said exhaust pipe, a revoluble hub mounted in the discharge chamber and having radiating fans thereon arranged to choke the discharge chamber against the free passage of air through the discharge chamber, and to convey material from the distributing chamber into the discharge pipe, and a governor in the discharge pipe consisting of an opening through the side of the pipe and a slide for adjusting the size of said opening.

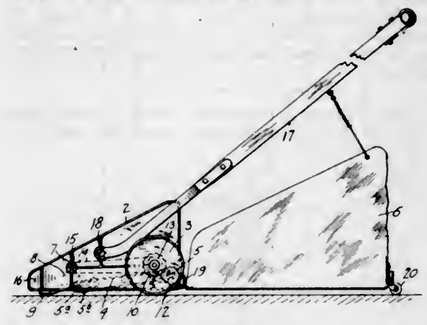
1,471,928. BAG-FILLING APPARATUS. OLIVER P. SMITH, Portland, Oreg. Filed Mar. 1, 1921. Serial No. 448,926. 1 Claim. (Cl. 226—25.)

An apparatus for the purpose set forth comprising a frame, a load carrying platform, means for elevating and lowering said platform, a counter-balanced device and a brake band mechanism acting on said means for respectively moving the platform upwardly and for retarding the downward movement of the platform, a lever arm pivoted to said frame, a resilient element having one end connected with said lever arm, an adjustable sectional connection connected with said brake band mechanism and with the other end of said resilient element and in connection therewith and said lever arm providing means for shifting said brake band mechanism to active position, and



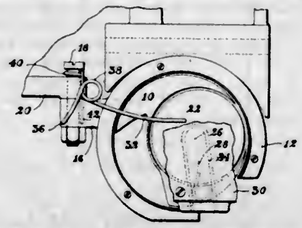
means operated from said lever arm for connecting and disconnecting said drive from a power source.

1,471,929. LAWN-CLEANING MACHINE. WILLIAM JEROME TODD, Denver, Colo. Filed Sept. 25, 1922. Serial No. 590,395. 2 Claims. (Cl. 55—145.)



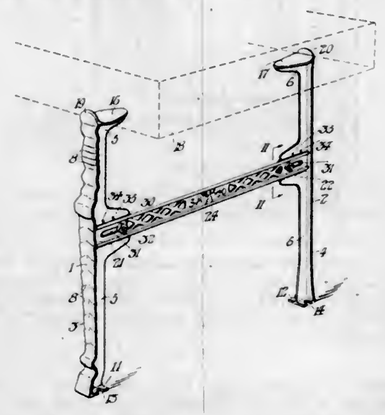
1. In a lawn cleaning machine comprising a frame composed of side plates with cross bars so arranged to retain said plates parallel with each other; said frame supported on wheels—an endless belt conveyor rotatably supported on said frame; a scraper roller and rake bar supported thereon, means for transmitting rotary motion to said conveyor and scraper roller, means for attaching a receptacle for catching the material from the machine, substantially as described.

1,471,930. BOBBIN-CASE-RETAINING DEVICE. WILLIAM G. TROHON, East Danvers, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 26, 1919. Serial No. 306,913. 7 Claims. (Cl. 112—196.)



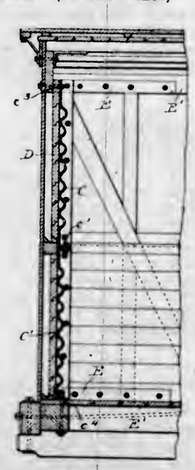
1. A sewing machine having, in combination, a shuttle and a bobbin case mounted for relative rotary movement, a retainer for the bobbin case capable of being retracted therefrom, and means for preventing displacement of the bobbin case during the retraction of said retainer comprising a spring arm extending across a side of the bobbin case.

1,471,931. ADJUSTABLE WASHTRAY LEG. HARRY R. TROUT, Pottstown, Pa. Filed Feb. 15, 1921. Serial No. 445,116. 3 Claims. (Cl. 248—41.)



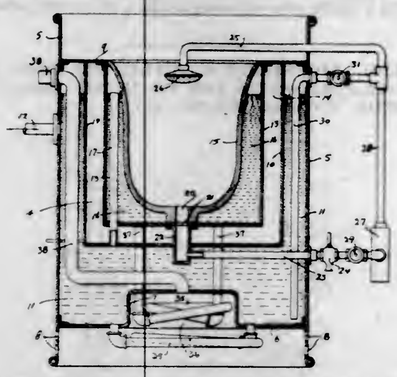
2. In a wash tray leg, the combination with separable front and rear standards, each having recesses with opposite plane walls in converging relation; of a cross bar having means at each end fitted to wedge in said recesses and having slots extending in the direction of the length of said cross bar; and screw means extending through said cross bar slots, adjustably clamping said cross bar in rigid relation with said standards.

1,471,932. REENFORCED CAR END. HERBERT E. VAN DORN, Chicago, Ill. Filed June 7, 1920. Serial No. 387,000. 6 Claims. (Cl. 105—410.)



1. In a wooden body freight car, the combination with the end frame and wooden sheathing on the inside and outside of said frame, of a corrugated metal end panel overlying the inner sheathing and covering the entire area thereof.

1,471,933. COFFEE URN. LEO WERTHEIMER, Buffalo, N. Y. Filed Aug. 2, 1922. Serial No. 579,111. 8 Claims. (Cl. 53—3.)



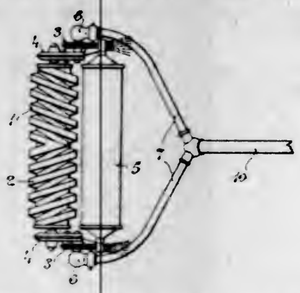
1. A coffee urn comprising an outer casing, a water space within the casing, a coffee receptacle interiorly supported by the casing, a water-space surrounding the receptacle, and a dead air-space interposed between the two water-spaces.

1,471,934. PROTECTOR FOR SPINNING RINGS. CHARLES D. WHITE, Norwich, Conn. Filed Nov. 10, 1922. Serial No. 600,111. 3 Claims. (Cl. 118—68.)



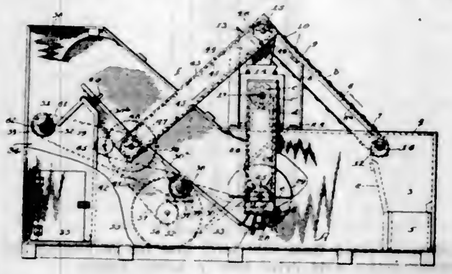
1. A device of the class described, comprising in combination with a spinning ring and its holder, an upstanding protector of sheet material extending circumferentially of the ring for a substantial distance and having its ends spaced to form an opening for the ejection of lint.

1,471,935. MACHINE FOR THE CLEANSING OF THE BOTTOMS AND SIDES OF FLOATING SHIPS. HJALMAR ARENTZ, Hellerup, Denmark. Filed Jan. 30, 1923. Serial No. 615,905. 2 Claims. (Cl. 114—222.)



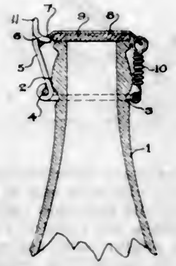
1. Machine for the cleansing of the bottom and sides of floating ships of the kind having a turbine driven rotating brush provided or formed on a cylindrical member which latter is arranged as an air container for the purpose of producing buoyancy, characterized in this that there is provided, apart from the said air container an auxiliary air container producing buoyancy, whereby is attained that the diameter of the first mentioned air container and thus of the brush can always be kept suitably small, the rotating of the brush being brought about by means of two turbines arranged each at one end of the brush and from which the pressure water will discharge in such a direction that two equal forces will be produced by the reaction which forces are disposed symmetrically with respect to the vertical centre plane of the machine and which will assist in pressing the brush against the side of the ship.

1,471,936. TOBACCO CUTTING AND SEPARATING MACHINE. JOHN H. BAKER, York, Pa. Filed Dec. 27, 1920. Serial No. 433,275. 5 Claims. (Cl. 146—76.)



1. In a tobacco shredding and separating mechanism, a screen for receiving the tobacco leaves, a longitudinally grooved floor inclined upwardly from said screen, a conveyer for moving the leaves upwardly on said floor, a shredding mechanism arranged to receive the leaves from the upper end of said floor and adapted to cut the leaves, and means for separating the leaf particles from the stem particles.

1,471,937. BOTTLE CLOSURE. GUISTO BOGGIO, Roylton, Ill. Filed June 9, 1922. Serial No. 567,137. 1 Claim. (Cl. 215—89.)



The combination with a bottle, of a closure therefor comprising a peripheral flanged member having a compressible insert, a ring around the neck of the vessel, a coiled spring having one end secured to the ring and its other end passing through the flange of the closure for establishing a hinged connection between the closure and bottle, a hook member formed from a single strand of wire hingedly secured to the ring diametrically opposite the spring, said hook having its body portion arranged at an outward angle and from thence extended at an opposite angle to form a handle portion which is normally disposed above the top of the closure, said handle being bent upon itself and continued rearwardly and from thence outwardly to form a beak, and the closure having its flange provided with an aperture receiving the beak of the hook therethrough.

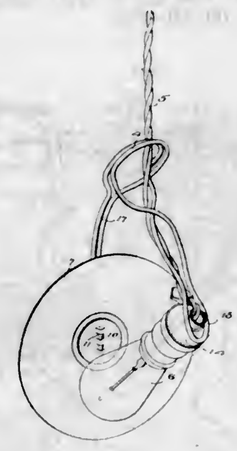
1,471,938. SASH-CORD FASTENER. CHARLES BONHAM, San Francisco, Calif. Filed Aug. 10, 1922. Serial No. 580,906. 1 Claim. (Cl. 16—202.)

A sash cord fastener comprising a relatively narrow strip of pliable metal having its upper end apertured and bent laterally to form an attaching ear, said strip being widened at its lower end to provide a pair of wings, said wings being relatively wide at their tops and gradually decreasing in width toward their lower ends and being adapted to be rolled toward each other to form a sub-



stantially conical socket for reception of one end of the cord, said wings being provided with indentations forming spurs on the interior of the socket for embedding in the fibres of the cord.

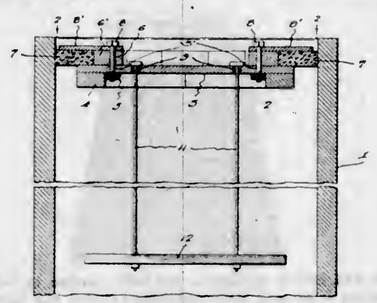
1,471,939. REFLECTOR AND LAMP SUPPORT. RICHARD S. BRADLEY, Los Angeles, Calif. Filed Sept. 6, 1922. Serial No. 586,482. 3 Claims. (Cl. 240—88.)



1. A support of the class described having an opening intermediate the ends thereof through which a lamp cord extends, means at one end of said support for supporting one end of a lamp, and a reflector at the other end of said support and engaged by said lamp to maintain the latter in fixed relation with respect to said reflector.

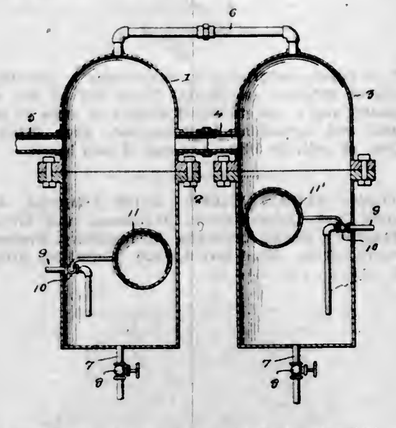
1,471,940. ENSILAGE FOLLOWER. FRED W. BRIGHT, Murfreesboro, Tenn. Filed May 24, 1921. Serial No. 472,208. Renewed Sept. 13, 1923. 3 Claims. (Cl. 100—57.)

1. A follower for ensilage in a silo, designed to provide an air-tight stopper for the top of the silo, comprising a body of a less cross sectional diameter than that of the silo, a ring member comprising segments secured on the body, a compressible ring member also made up of segments encircling the first mentioned ring member and in contacting engagement with the inner wall of the silo,



and plates secured to the segments of the first mentioned ring member and overlying the segments of the last mentioned ring member.

1,471,941. WATER TRAP. GEORGE H. BRUNHOBBE, Ponca City, Okla., assignor of one-half to John Fletcher, Ponca City, Okla. Filed Apr. 3, 1920. Serial No. 371,174. 1 Claim. (Cl. 210—54.)



A separating device of the character described comprising a pair of sectional receptacles, an inlet pipe entering the upper section of one of the receptacles, a pipe arranged diametrically opposite the inlet pipe and establishing communication between the receptacles, an outlet pipe arranged in opposing side walls of the lower section of each of the receptacles, a water controlled float actuated valve arranged in one of the outlet pipes and a gasoline controlled float actuated valve arranged in the other outlet pipe.

1,471,942. MOP HEAD. WILLIAM E. BURTZ, Columbia, Pa. Filed Sept. 20, 1922. Serial No. 589,399. 1 Claim. (Cl. 15—229.)

In a mop head, a body portion, said body portion having a groove formed along one edge thereof, a mopping element positioned in the groove, said mopping element having portions thereof positioned at the ends of the body portion, a looped securing wire adapted to engage the mopping element and hold the same within the groove, portions of the securing wire extending over the ends of the body portion and closely engaging the body portion at the upper edge thereof, means extending

through the loops for securing the wire to the body portion, and securing staples embracing portions of the securing wire at points between the ends of the securing



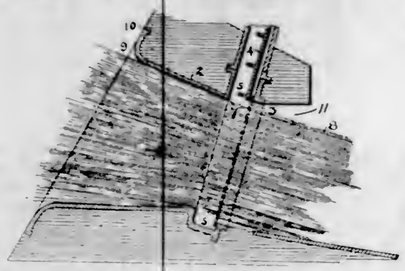
wire and groove formed in the body portion to hold the securing wire into close engagement with the body portion to secure the wire to the body portion at the ends thereof.

1,471,943. PUZZLE. MARCUS STANLEY CHAMBERS, London, England. Filed Jan. 3, 1923. Serial No. 610,495. 2 Claims. (Cl. 46—41.)



1. A puzzle comprising in combination a plurality of boxes of different geometrical forms but of the same capacity, and a predetermined number of units of tetrahedral and pyramidal form capable, when fitted together, of entirely filling any one of said boxes.

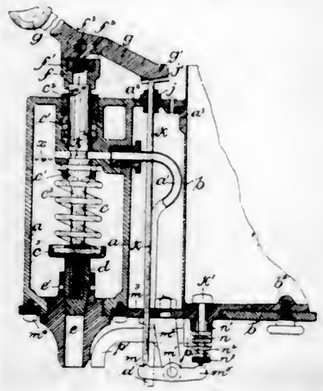
1,471,944. SLUICE VALVE. JAMES CHAPMAN, Auckland Park, Johannesburg, Transvaal, and WILLIAM FREDERICK ROGER REYNOLDS, Johannesburg, Transvaal, South Africa. Filed May 6, 1920. Serial No. 379,333. 3 Claims. (Cl. 251—51.)



1. A sluice valve for dams, adapted for disposition at the inner face of a dam to discharge water directly into the atmosphere and comprising a gate, a gate recess, and a nozzle formed with an unbroken tapering internal surface leading to said recess and such as to form the out-flowing water into a defined jet which clears the valve structure beyond the nozzle.

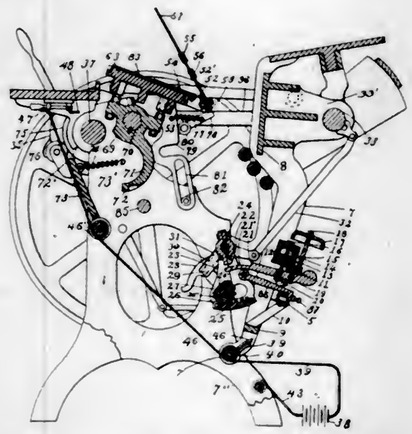
1,471,945. MACHINE FOR DISPENSING BEVERAGES FROM THE BULK. HAROLD CHARLES and IVERN ANTHONY JACOBS, Leederville, near Perth, Western Australia, Australia. Filed Mar. 23, 1923. Serial No. 627,162. 7 Claims. (Cl. 225—26.)

1. In an apparatus for dispensing beverages, a chamber, a stem slidably mounted therein, an outlet valve controlled by the sliding movement of said stem, a head pivoted to the stem and an arm extending therefrom, a plurality of syrup compartments having dispensing outlets, valves controlling the flow of liquid through



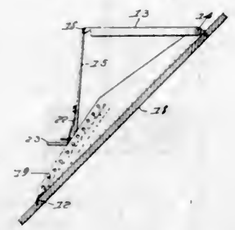
the outlets of said compartments, and a plurality of controlling means for said last named valves arranged on an arc of a circle and within reach of said arm.

1,471,946. AUTOMATIC IMPRESSION TRIPPER FOR PRINTING PRESSES. WILLIAM C. CHESBRO, St. Joseph, Mo. Filed May 14, 1921. Serial No. 469,467. 7 Claims. (Cl. 101—300.)



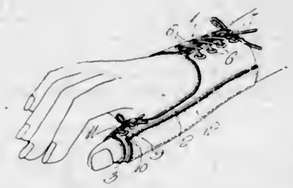
1. In an impression tripper for printing presses; an electric circuit; energizing means for electrically energizing said circuit; impression-tripper driving means; moving means whereby said driving means is moved into operative position for driving said impression tripper, said moving means being actuated by said electric energy; a plurality of tympan electrodes in said circuit, said electrodes being adjustably secured over the platen and insulated from the latter; a like plurality of gripper electrodes in said circuit, said gripper electrodes being adjustably secured on the grippers of said press; and moving means formed of parts of said press whereby said electrodes are moved for bringing said gripper electrodes into contact with said tympan electrodes.

1,471,947. SHINGLING SEAT OR BRACKET. CLARENCE CORNELIUS, Seattle, Wash. Filed Oct. 26, 1921. Serial No. 510,464. 1 Claim. (Cl. 304—20.)



A roofing bracket having a base adapted to rest upon and occupy a position in parallelism with a pitched roof and provided with anchoring spurs for securing the same against sliding movement, a platform pivotally mounted upon the base adjacent to its upper end, and a brace hingedly connected with the outer or free edge of the platform and provided at its lower end with means for engaging the base to maintain the platform in an adjusted position, the base being provided with upstanding side flanges provided with series of openings and the lower edge of the brace being provided with rolls forming guides for selective registration with said openings, and the locking means consisting of bolts slidingly fitted in said guides and provided at their inner end with outstanding pins forming grips, and a V-shaped spring secured at its apex to the brace and having its terminals connected with the pins for yieldingly maintaining the same in position for engagement with the openings in the flanges of the base.

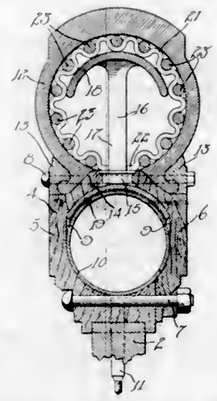
1,471,948. THUMB PROTECTOR. JESSE CLAUDE COX and JOHN WILLIAM MCCLUNG, Anderson, Ind. Filed Mar. 13, 1922. Serial No. 543,442. 3 Claims. (Cl. 128—89.)



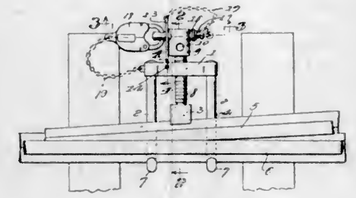
1. A combined wrist and thumb protector and bracing member comprising a wrist-band, a circlet for surrounding a sprained or injured thumb, and a resilient splint or bracing member extending from the wrist-band to the thumb-encircling member and acting to hold the thumb in proper position, but permitting a limited movement thereof.

1,471,949. VEHICLE TIRE. JULIUS T. DORANSKI, Chicago, Ill. Filed Oct. 16, 1922. Serial No. 594,830. 2 Claims. (Cl. 152—29.)

1. A device of the character described comprising a resilient tire casing, a reenforcing frame consisting of a plurality of resilient metal rings disposed within said casing and extending longitudinally thereof at spaced intervals on the inner walls, means for retaining said rings in their adjusted spaced relation with one another relative to the casing wall, a rigid casing for supporting said tire casing, plungers radially and slidably disposed in said rigid casing and arranged to extend and contact said reenforcing frame in said tire casing, and a pneumatic tube supported in said rigid casing, the inner ends of said plunger being arranged to rest on said tube.

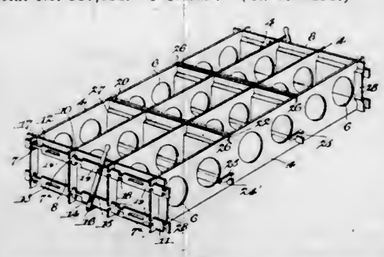


1,471,950. RAILROAD SWITCH-POINT CLAMP. BENJAMIN F. DRENNING, Cumberland, Md. Filed Feb. 6, 1923. Serial No. 617,270. 2 Claims. (Cl. 246—448.)



1. A device for the purpose indicated comprising a cross bar, spaced hook elements extending from said cross bar and provided with terminal hooks, a clamping member, a screw threadingly engaged with said cross-bar and having a swivel connection with said clamping element, and means carried by the cross bar and engageable with one terminal of the screw for securing the other against turning movement.

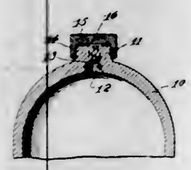
1,471,951. COLLAPSIBLE CONCRETE MOLD. ALFRED H. EVANS, New York, N. Y. Filed Sept. 9, 1922. Serial No. 587,152. 6 Claims. (Cl. 25—121.)



1. A collapsible mold comprising longitudinal walls, end walls, means on the end walls co-acting with said longitudinal walls to hold the mold set up, intermediate walls detachably associated with the longitudinal walls for dividing the mold into a plurality of non-communi-

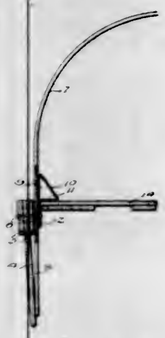
cating cells, said intermediate walls consisting of relatively separable units, and means connected with the longitudinal walls and co-acting with said units to hold same in set up positions.

1,471,952. METHOD OF MAKING CONTAINERS. CHARLES T. FORD, Washington, D. C. Filed Jan. 16, 1922. Serial No. 529,700. 9 Claims. (Cl. 29—156.)



1. The method of forming container necks which consists in shaping the neck, applying a cap to the shaped neck, and providing said cap and neck with a threaded orifice.

1,471,953. FRUIT BASKET. PATRICK J. F. GALLAGHER, Marlboro, N. Y. Filed Oct. 16, 1922. Serial No 594,826. 9 Claims. (Cl. 212—125.)



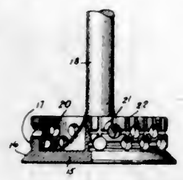
1. In a basket, a body portion having side walls, a handle pivoted to said side walls and having its ends arranged interiorly thereof and at an angle thereto whereby a frictional engagement between said ends and side walls is effected when the handle is in extended position.

1,471,954. POISON HOLDER FOR RODENTS. THOMAS H. GREENWAY, Valley, Wash. Filed July 14, 1921. Serial No. 484,662. 1 Claim. (Cl. 43—131.)



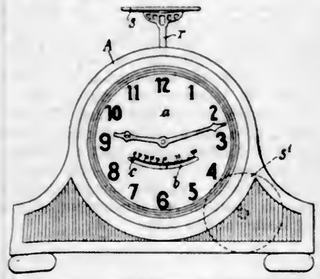
A poison holder formed from a sheet metal blank provided with lateral substantially triangular projections on its longitudinal edges at substantially intermediate points, the said blank being foldable into cylindrical form when the said lateral projections form the complemental elements for a tapering or conical pocket, the longitudinal edges of said blank having interlocking means disposed on opposite sides of the projections for the purpose provided.

1,471,955. VALVE FOR INTERNAL-COMBUSTION ENGINES. RICHARD PALMER GRIEVE, Detroit, Mich. Filed Sept. 27, 1921. Serial No. 503,633. 5 Claims. (Cl. 123—188.)



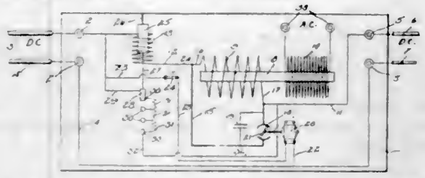
1. A valve for an internal combustion engine comprising a valve seat, a valve head shaped to fit the valve seat, a collar having a plurality of perforations therein integral with the valve head, and grooves cut in the collar connecting the perforations.

1,471,956. COMBINED CLOCK AND LETTER BALANCE. GOTTFRIED GÜNTHER, Schwenningen-on-the-Neckar, Germany. Filed Nov. 28, 1922. Serial No. 603,844. 3 Claims. (Cl. 58—56.)



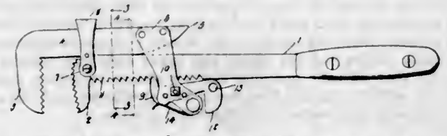
1. A combined clock and letter-balance, comprising, in combination; a clock-casing; a weighing mechanism arranged between the clock-work and the dial, and having its upper end located at the top of said casing; a weighing pan arranged above the clock casing and being supported by said upper end of the weighing mechanism; the clock dial having a scale executed corresponding to the purpose of the said weighing mechanism, as well as a curved slot extending along said scale; and an indicating hand projecting forth through said slot from a lower member of the weighing mechanism and being adapted to co-operate with said scale.

1,471,957. ELECTRIC POWER DEVICE. WILLIAM C. HAHNE, Elgin, Ill. Filed Apr. 14, 1922. Serial No. 552,785. 4 Claims. (Cl. 175—364.)



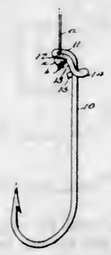
1. A device of the character described comprising a primary coil adapted to be connected in series with an electric light or power circuit, a secondary coil inductively coupled to said primary coil, a conductor of low resistance means for intermittently shunting said conductor of low resistance across said primary coil, whereby a current is induced in said secondary coil, a second conductor of varying resistance and means for automatically shunting said second conductor of varying resistance across said primary coil as the current in the light or power circuit is increased.

1,471,958. PIPE WRENCH. ELI HAKEY, Swanton, Vt. Filed Sept. 16, 1922. Serial No. 588,633. 1 Claim. (Cl. 81—103.)



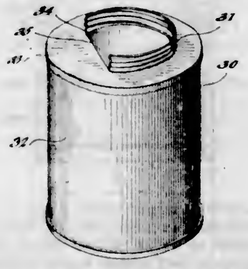
A wrench of the character specified comprising a handle provided at its outer end with a fixed jaw, an adjustable jaw having a shank resting on the upper edge of the handle, a shackle pivoted to the outer end of the handle and loosely engaging said shank, the rear end of said shank being upwardly curved, a loop secured to the rear end of the shank about said curved portion and depending from the shank and loosely receiving the handle, the lower edge of said handle being provided with teeth, a pivoted dog carried by said loop and selectively engageable with said teeth, and a spring carried by the lower portion of said loop and acting to normally hold said dog in engagement with a selected one of said teeth.

1,471,959. FLY HOOK. PETER F. HALFERTY, Aberdeen, Wash. Filed July 12, 1922. Serial No. 574,444. 5 Claims. (Cl. 43—27.)



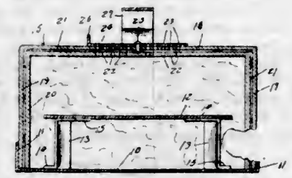
3. A fish hook having the material at the shank at the upper end of the latter return bent into loop form, the material being carried from said loop transversely across to the opposite side of the shank, said terminal and loop presenting a space for the entrance and removal of the leader or the like, and said loop presenting an incline between the entrance to the loop and the upper terminal of the loop, to prevent an accidental removal of the leader from the hook, said upper terminal being deflected laterally at right angles.

1,471,960. RECEPTACLE OR CONTAINER. JOSEPH B. HENRY, Germantown, Ohio. Filed Dec. 11, 1919. Serial No. 344,065. 2 Claims. (Cl. 220—90.)



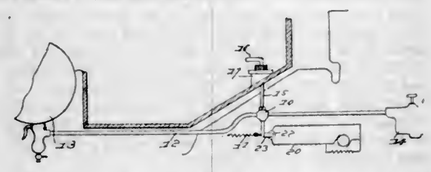
1. A container, including a top wall having an opening therein, a cover receiving neck on said top wall about said opening, a portion of said neck being cut away and cooperating with an adjacent straight edge of said top wall for scraping purposes.

1,471,961. OVEN. SUSIE T. HOLVAY, Watts, Calif. Filed Aug. 31, 1922. Serial No. 585,359. 3 Claims. (Cl. 126—275.)



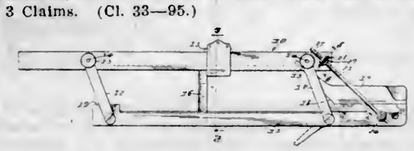
1. An oven having a base for application of heat thereto, a cover for disposition thereon, said cover having layers of heat insulating material to substantially compose it, and a reinforcing frame between said layers of substantially skeleton form.

1,471,962. VEHICLE LOCK. CLEMENS TO KENTRUP, Exeland, Wis. Filed July 6, 1922. Serial No. 573,112. 2 Claims. (Cl. 123—198.)



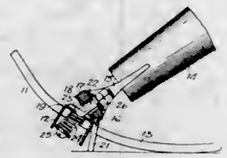
1. A vehicle lock having a fuel valve yieldingly held in its closed position, a combination lock mechanism for normally preventing the opening movement of the valve, and means under the control of the generator of the vehicle ignition system for holding the valve in its open position.

1,471,963. COMBINATION TOOL. ANDREW LAGERGREN, Altoona, Pa. Filed June 2, 1920. Serial No. 385,908. 3 Claims. (Cl. 33—95.)



1. A measuring instrument of the type indicated having parallel relatively movable bars, connecting means for operating the same in parallelism, a gauge bar carried by one of said parallel bars for movement longitudinally thereof, and a fine adjustment device connecting said parallel bars and embodying a rod having a sliding connection with one of the bars and an adjustable connection with the other.

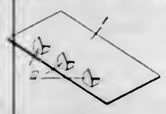
1,471,964. RAKE. BERT E. LEAS, Luverne, Minn. Filed Dec. 30, 1922. Serial No. 609,975. 2 Claims. (Cl. 55—10.)



1. A rake including a handle and a head and a connection therebetween to permit of relative angular movements therebetween upon exertion of a downward pressure and

forward movement of the rake head over the ground, comprising a forked sleeve carried by one extremity of the handle, a cross rod connecting the forked portion of the sleeve, a plate secured to the rake head having a semicircular portion embracing the cross rod, apertured lugs projecting from the forked portion, apertured portions in the rake head, bolts extending through said apertured portion and the lugs, and means interposed between the apertured portion and the heads of the bolts for normally holding the rear side of the rake head in flat contact with the forward sides of the forked ends.

1,471,965. METAL TIP FOR SHOE LACES. FRANK LEWIS, Warren, Ohio. Filed May 10, 1922. Serial No. 559,906. 1 Claim. (Cl. 24—143.)



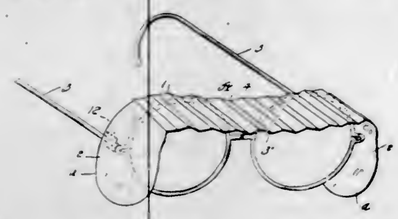
A lace, and a sheet metal blank therefor having spurs formed adjacent one edge thereof by partly cutting portions from the blank and pressing the same laterally therefrom, said lace positioned along that edge of the sheet metal blank along which the spurs are formed and having the spurs passing therethrough, said lace overlapping the openings provided in the blank by the formation of the spurs, said spurs having their projecting ends bent to overlap the portions of lace disposed above the openings in the blank, and said blank subsequently rolled about the lace to provide a tip therefor.

1,471,966. HEEL. HENRY BENJAMIN LIGHT, San Quentin, Calif., assignor of one-half to Charles Allen Almy, San Quentin, Calif. Filed Jan. 14, 1922, Serial No. 529,390. Renewed July 31, 1923. 3 Claims. (Cl. 36—38.)



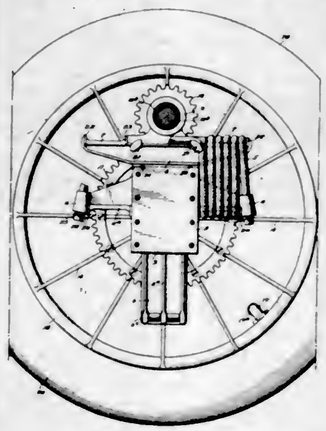
1. A shoe heel comprising a rigid section adapted to be secured to a shoe, a movable section, means for securing the movable section to the rigid section in a manner to permit of relative vertical movement and a yieldable element located between the sections, said element comprising a plate removably fitting within one of said sections and spring arms carried by the plate and extending inwardly and spaced from the latter for contact with the other section.

1,471,967. EYE SHADE. SOPHY MAHLMANN, Baltimore, Md. Filed Aug. 5, 1921. Serial No. 490,009. 3 Claims. (Cl. 2—149.)



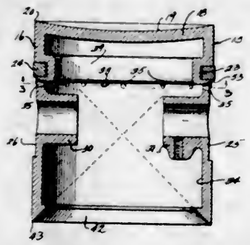
1. An eye shade consisting of a flexible sheet having a portion normally substantially horizontally disposed adapted to rest on eye glasses above the lenses and end portions adapted to depend from said portion adjacent the ends of the lenses, the sheet being extensible intermediate said portions to fit eyeglasses of different sizes and to enable folding of the end portions in substantial parallelism toward each other with said first portion folded therebetween when the shade is not in use, and means substantially midway of the upper and lower ends and adjacent the rear of said portions serving dually to secure said end portions to the temples of the eyeglasses and maintain said end portions in depending position.

1,471,968. VEHICLE SHOCK ABSORBER. JAMES V. MARTIN, Garden City, N. Y. Filed Aug. 8, 1922. Serial No. 580,508. 7 Claims. (Cl. 301—133.)



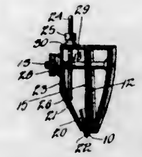
4. In combination with the chassis or running gear of a vehicle, elastic bands for use as shock absorbers and a gripping means for holding the ends of said bands, said means including a tapered hole having a smooth surface and wedges shaped to fit the said tapered hole, said wedges having smooth surfaces in contact with the said surface of the said hole and roughened interior surfaces adapted to grip and hold the said elastic bands.

1,471,969. PISTON. WILLIAM H. MAY, Atlanta, Ga., assignor to Lena O. May, Atlanta, Ga. Filed Sept. 9, 1922. Serial No. 587,070. 2 Claims. (Cl. 74—108.)



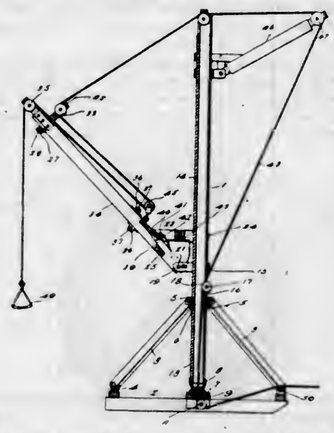
1. As an article of manufacture, a piston of the hollow casing type including an inner chamber, said piston having a circumferential series of tapered ducts communicating with the interior of said piston, and an annular shoulder extending within said piston casing immediately over said ducts, the piston casing having the lower edge thereof bevelled to upwardly converge axially of the piston and providing a sharp marginal edge about the lower end of the casing.

1,471,970. SAFETY HAIR CUTTER. JOHN L. MCELROY, San Antonio, Tex. Filed Oct. 19, 1920. Serial No. 418,074. 7 Claims. (Cl. 30—12.)



3. In a safety hair cutter an upper and a lower clamping member, a blade between the clamping members, a combined casing and handle, a comb carried between the casing and upper clamping member, and means for holding the parts in operative relationship, substantially as set forth.

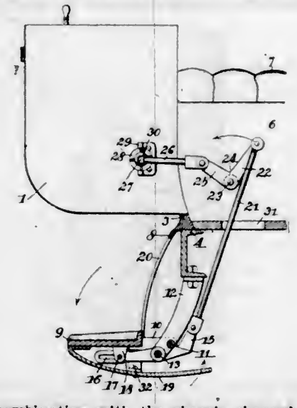
1,471,971. REVOLVING TELESCOPING DERRICK. WILLIAM D. MILLER, Mount Carmel, Ill. Filed Oct. 4, 1921. Serial No. 505,301. 1 Claim. (Cl. 212—55.)



In a hay derrick, a skid, a mast revolubly supported thereon, a boom pivotally secured to the mast, means between the boom and mast for holding the former at an inclination with respect to the latter, said boom comprising an outer section which is pivotally secured to the mast and an inner slidable section telescopically received in the outer section, latching means for holding the inner section within the outer section, an arm secured to the mast and arranged at an inclination diametrically opposite the telescopic sections, a hay elevating cable trained through the lower portion of the mast, over the end of the arm thence over the top of the mast then down to the slidable section adjacent its inner end, thence directed toward the free end of the pivoted section and trained through this last mentioned end and the outer end of the slidable section respectively, said cable when drawn to elevate hay will release the latching means and thereafter draw on the slidable section to move the same outwardly beyond the pivoted section as and for the purpose specified.

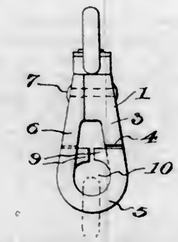
1,471,972. AUTOMOBILE STEP. HENRY DAVID MILLER, Oklahoma City, Okla. Filed Apr. 7, 1923. Serial No. 630,517. 10 Claims. (Cl. 280—166.)

1. In combination with the door and chassis cover sheet of an automobile, a step situated behind said cover sheet, and means furnishing a connection between said step and the door moving the step to an extended position through said sheet when the door is opened and retracting it behind the sheet when the door is closed, and an apron which is adapted to move with the step to conceal the step when in a retracted position.



10. In combination with the chassis channel iron and cover sheet of an automobile said sheet having an opening, a step situated behind said sheet, slide rods by which the step is carried, means affixed to the channel iron furnishing a support in which said rods are slidable, an apron adapted to fit in said opening when the step is retracted, a shaft upon which the apron is mounted to turn, brackets pendent from the channel iron furnishing a support for said shaft, springs fitted between said brackets and parts of the apron causing the apron to follow the step when extended and retracted in respect to said opening, a bell crank having one arm in connection with a slide rod, and door-operated means in connection with the other arm causing said bell crank to rock and the step to be extended and retracted in consonance with opening and closing movement of a door.

1,471,973. HOOK. EMIL E. MINDER, Wisdom, Mont. Filed Apr. 18, 1922. Serial No. 554,369. 1 Claim. (Cl. 24—242.)

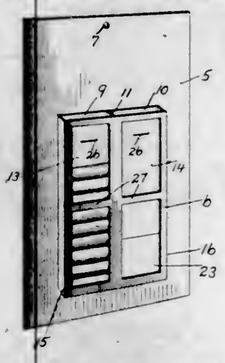


A device of the class described comprising a pair of hook parts, a stem connected with each hook part, a head connected with the stem of one part, an extension on the stem of the other part, a pin pivoting the extension to the hed, shoulders on the stems for engaging the ends of the hook parts and an inwardly extending lip at the end of each hook part, said lips forming with the rest of the hook parts a circular space when the device is in closed position.

1,471,974. DISPLAY CASE. FREDERICK H. MIX, Brooklyn, N. Y., assignor to Joseph Dixon Crucible Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 27, 1922. Serial No. 571,233. 3 Claims. (Cl. 211—34.)

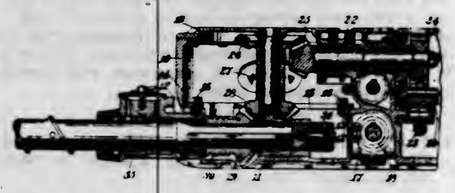
1. A display case comprising a card constituting a display surface, and a box containing the articles to be exhibited, said box being formed from a blank cut to pro-

vide a front portion with an opening therein to display the articles contained in the box, said blank also being cut to form integral extensions projecting from each side of said front portion, said extensions forming the side and



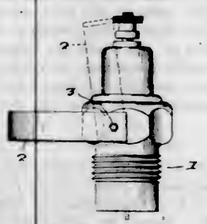
rear walls of said box and being connected to the card, another extension provided on the blank, said last named extension being adapted to form the bottom of the box, and a partition for said box formed integral with at least one of the extensions providing the rear wall.

1,471,975. COAL CUTTER. MATTHEW SMITH MOORE, London, England, assignor to Cowlishaw, Walker & Company (1920), Limited, London, England, a British Company. Filed May 26, 1922. Serial No. 563,969. 2 Claims. (Cl. 262—25.)



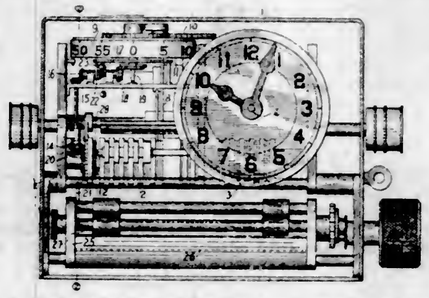
1. In a coal-cutter, the combination of a casing constituting a gear-head and having within it an inwardly-directed circular lip, a banjo-like body-portion having at one side an outwardly- directed cylindrical flange journaled in said lip, said body-portion constituting a casing for a cutter-member and having a face bearing against one side of said lip, and a divided ring seated on the end of said flange within the banjo-like body-portion and arranged to overlap the other side of said lip for retaining the banjo in pivotal engagement with the gear-head.

1,471,976. SPARK-PLUG TESTER. WILBERT P. MOORE, Worland, Wyo. Filed Mar. 27, 1922. Serial No. 547,044. 1 Claim. (Cl. 175—183.)



A device of the class described comprising a strip of spring metal bent into U-shape and having pivot points punched in its legs for engaging recesses in the shell of the spark plug.

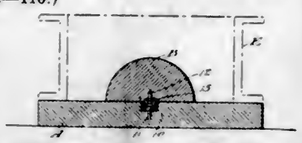
1,471,977. SPEED RECORDER. JOHN F. OHMER, Jr., Dayton, Ohio, assignor to John F. Ohmer, Dayton, Ohio. Filed Dec. 10, 1921. Serial No. 521,324. 16 Claims. (Cl. 234—33.)



1. In a mechanism of the character described, a speed controlled device adapted to be driven from a moving part of the vehicle and which advances and recedes as the speed of said part of said vehicle rises and falls, maximum speed registering means advanced by said speed controlled device, and means for returning said registering means to its initial position.

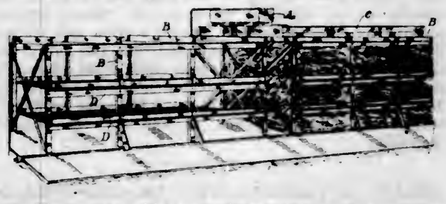
3. In a mechanism of the character described, a fluctuating speed controlled device, recording means advanced by said speed controlled device, retaining means for said recording means and printing means for said recording means adapted to actuate said retaining means.

1,471,978. DOWEL PIN AND CUP FOR MOUNTING PATTERNS. STEPHEN B. PHELPS, Pittsburgh, Pa. Filed May 4, 1922. Serial No. 558,386. 3 Claims. (Cl. 22—110.)



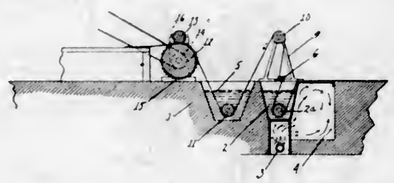
1. A pattern holder for use in foundries comprising a cup-shaped body adapted for the reception of a dowel pin and having a bottom wall provided with a centrally arranged opening, and a fastening member adapted to extend through said opening for securing the cup-shaped body in position.

1,471,979. MANUFACTURE OF NITROGENOUS FERTILIZERS AND THE UTILIZATION OF NITROGEN-BEARING SOLUTIONS. ERIC HANNAFORD RICHARDS and HENRY BROUGHAM HUTCHINSON, Harpenden, England. Filed Aug. 12, 1921. Serial No. 491,774. 13 Claims. (Cl. 71—6.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. The process which comprises treating activated straw with a solution of ammoniacal nitrogen, of a maximum concentration of 100 parts of soluble nitrogen per 100,000 parts of solution, by regulated percolation under aerobic conditions, until the straw is substantially loaded with nitrogen in insoluble combination, for the purpose set forth.

1,471,980. FELT-TREATING MACHINE. ALBERT J. RYAN, Cincinnati, Ohio. Filed Oct. 2, 1920. Serial No. 414,236. 2 Claims. (Cl. 91—32.)



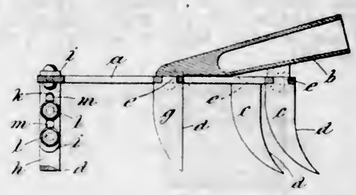
1. A machine for impregnating a continuous strip of fabric with hardening compound, which comprises means for drawing a strip of fabric through the machine, a vat for molten hardener compound, and a device to receive the fabric located so as to drain into the vat, said device formed of a tubular body, having slots therein set in a plane transverse the direction of withdrawal of the fabric, whereby the compound is accumulated within the body and is scraped from the fabric, and worked into the fabric while same passes through said two slots.

1,471,981. TIRE-MILEAGE INDICATOR. ARTHUR GILBERT SARGENT, New Haven, Conn. Filed Aug. 27, 1921, Serial No. 496,036. Renewed May 2, 1923. 8 Claims. (Cl. 235—91.)



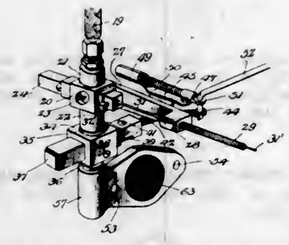
1. In combination with a tire for vehicles, a mileage indicator comprising registering mechanism within the tire adjacent its rim portion, and means operated by the crosswise flexure of the tire to actuate the registering mechanism.

1,471,982. HAND TOOL FOR CULTIVATING AND SCARIFYING LAND. ALFRED JAMES SAVAGE, Wolverton, England. Filed Mar. 10, 1922. Serial No. 542,712. 1 Claim. (Cl. 97—62.)



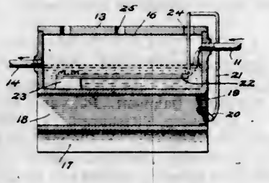
A cultivating or scarifying tool or implement consisting of a foundation plate having a handle socket attached thereto, a plurality of forwardly curved and pointed plow knives carried by said foundation plate, a plurality of trailing knives having straight forward vertical edges attached to said plate in the rear of said plow knives, downwardly projecting arms at the rear of said plate, and a destroyer knife having upturned ends adapted to rest against said arms, and apertures in said arms and upturned ends whereby the arms and ends may be adjustably attached together.

1,471,983. DILUTING DEVICE FOR INTERNAL-COMBUSTION ENGINES. WATSON B. STOCKMAN, Chester, Pa. Filed Dec. 21, 1921. Serial No. 523,964. 7 Claims. (Cl. 123—119.)



5. A device of the character described including in combination with a fuel throttle comprising a lever, and a control element for the throttle, a distributer, an air throttle valve controlling air flow to the distributer, an arm fixed to said lever, a spring connecting said control element with the arm whereby said element may be shifted for swinging the lever and operating the throttle, and a second spring connecting said element with the valve whereby the valve will be moved in unison with the throttle, both of said springs being adapted to flex whereby the element may be shifted for opening the valve while the throttle is closed.

1,471,984. APPARATUS FOR DISTILLING VOLATILE IMPURITIES FROM THE LUBRICATING OIL OF INTERNAL-COMBUSTION ENGINES. ERNEST E. SWEET, Detroit, Mich., assignor, by mesne assignments, to Harold H. Emmons, Detroit, Mich. Filed Sept. 30, 1919. Serial No. 327,444. 11 Claims. (Cl. 123—196.)

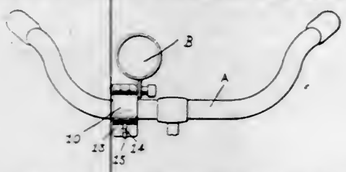


1. In an internal combustion engine, in combination, a fan, an oil heating chamber in rear of the fan, a source of heat adjacent the heating chamber and separated therefrom by a channel adapted to convey air from the fan, means for conveying oil to and from the heating chamber, and means for controlling the flow of air through said channel in accordance with the temperature of the oil in the heating chamber.

1,471,985. FLASH-LIGHT HOLDER. CLARENCE E. TOWER, New Haven, Conn. Filed May 15, 1922. Serial No. 560,974. 1 Claim. (Cl. 248—20.)

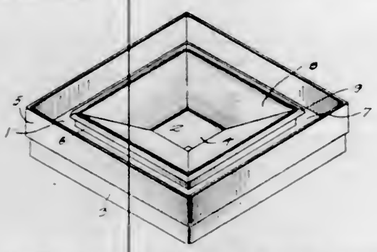
A device of the character described comprising a clamp designed for engagement upon a support and including a pair of curve mating strips formed at one end with interfitting knuckles and having their other ends formed with apertured ears, a clamping screw passing through said ears and carrying a clamping nut, a bolt passing through said knuckles, a second clamp designed for engagement

about an article to be held and including a pair of strips hingedly connected at one end and having their other ends formed with apertured ears engaged upon the threaded end of said bolt, and a nut screwed onto said bolt and



having an elongated shank portion engaging against the outermost ear of the second named clamp, said second named clamp being pivotally mounted for swinging movement at one side of the first named clamp.

1,471,986. INSECT TRAP. EDWIN VOGES, Riesel, Tex. Filed Feb. 6, 1923. Serial No. 617,314. 2 Claims. (Cl. 43—121.)



1. An insect trap of the character specified, comprising a plate having a centrally disposed opening and provided upon its top side with a marginal trough, and having inner and outer rims depending from its bottom side, the inner rim being in line with the opening, and a flared ring supported at its inner edge upon the plate and overhanging the opening thereof and at its upper outer edge upon the inner upstanding wall of the trough with the upper outer portion of the ring outwardly and downwardly curved and overhanging the trough.

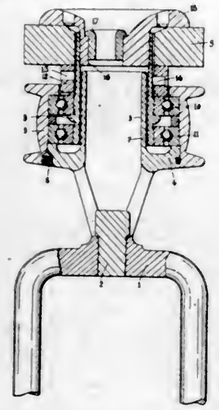
1,471,987. MUCIN-DISSOLVING AGENT. CLARENCE C. VOGT, Pittsburgh, Pa., assignor of three-fourths to Glenn F. Bowman, Oakmont, Pa., and one-fourth to Charles F. C. Arensberg, Pittsburgh, Pa. Filed May 26, 1922. Serial No. 563,921. 8 Claims. (Cl. 167—9.)

3. A mucin dissolving medicinal agent for removing mucinous secretions adhering to surfaces of the body, containing a compound of an alkali metal which is non-irritating to mucous membranes and substantially stable in water solution, and which yields in water solution an alkalinity not less than a pH value of approximately 9.5, said agent being substantially free from mucin precipitants or coagulants, substantially as described.

5. A mucin dissolving medicinal agent for removing mucinous secretions adhering to surfaces of the body, containing tri-sodium phosphate and sodium chlorid in dilute water solution of such concentration as to form an approximately normal physiological salt solution, said solution being substantially free from mucin precipitants or coagulants, substantially as described.

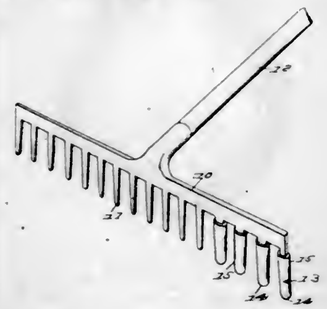
1,471,988. FLIER. PRINCE PRINCE-SMITH and DAVID WATERHOUSE, Keighley, England. Filed Dec. 8, 1922. Serial No. 605,590. 6 Claims. (Cl. 118—57.)

1. In flier-spinning and analogous machines, a flier, supporting means therefor, said flier being mounted rotatably on said supporting means, a tubular neck extending from said flier, an aperture in said flier supporting means above said tubular neck, a stationary member located in said aperture in said supporting



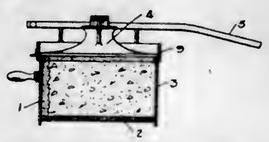
means, and an eccentrically disposed passage in said stationary member, for the purpose of guiding thread axially of said tubular neck.

1,471,989. CONVERTIBLE RAKE. HENRY T. WEIS, Fairmont, W. Va. Filed Aug. 31, 1922. Serial No. 585,459. 1 Claim. (Cl. 55—10.)



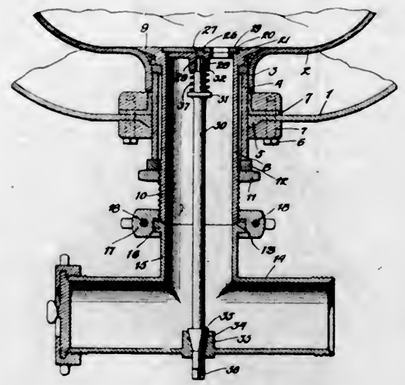
The combination with a garden rake head having terminally sharpened permanent teeth, of hollow terminally blunt removable teeth fitted upon and housing said permanent teeth.

1,471,990. METHOD OF FORMING FACED CONCRETE BLOCKS. CYRUS S. WERT, Kendallville, Ind. Filed Aug. 31, 1921. Serial No. 497,142½. 3 Claims. (Cl. 18—60.)



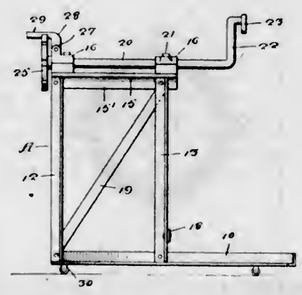
1. The method of forming concrete blocks having a face provided with facing material distinct from the material of the main portion of the block, which consists in first forming the main portion of the block, removing the top surface of said main portion of the block before it has become fully set, wetting the top surface left on the main portion of the block with lime water containing water glass in solution, applying the facing mixture to the wetted surface, and tamping said facing mixture into intimate union with said main portion of the block.

1,471,991. FLUSH VALVE FOR MILK-AGITATING TANKS. GEORGE S. WHITE, Washington, D. C., assignor to George P. Sacks, Bradley Hills, Md. Filed Sept. 9, 1921. Serial No. 499,503. 3 Claims. (Cl. 137—21.)



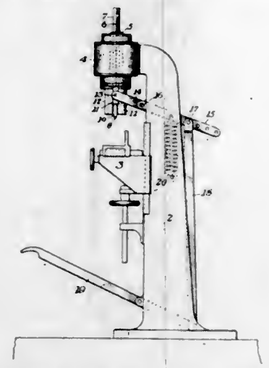
1. The combination with a cylindrical tank, of an abutment removably secured in the tank flush with the surface thereof, a material conveyer leading from the tank beyond the abutment, a plate valve mounted for rotary movement with respect to the abutment and controlling openings in said abutment, a stem connected to said valve to permit free axial movement of the valve, said valve stem extending longitudinally of said conveyer, self-grinding mounting for the stem arranged in said conveyer remote from the valve, and a spring bearing between said stem and valve to compel a self-grinding action of the valve on the abutment and of the stem in its mounting during operation of the valve.

1,471,992. MOTOR STAND. CORNELIUS R. WIGNESS and HARRY WALTER SAHL, Harlan, Iowa. Filed Jan. 16, 1922. Serial No. 529,555. 3 Claims. (Cl. 29—89.)



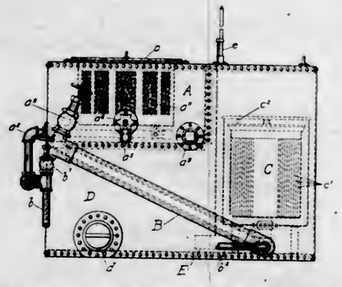
1. A motor stand comprising a supporting structure, a shaft journaled thereon, one end of said shaft being offset, a motor supporting bar arranged at a right angle to said offset extremity and rigidly supported thereby, said bar having a longitudinal slot, and means for preventing rotation of the shaft with said bar in any desired position.

1,471,993. MORTISING AND BORING MACHINE. CLINTON G. WILDERSON, Leetonia, Ohio, assignor to The Crescent Machine Company, Leetonia, Ohio, a Corporation of Ohio. Filed Apr. 29, 1921. Serial No. 465,422. 3 Claims. (Cl. 144—78.)



1. In a mortising machine, a frame, a fixed bearing member on the frame, a hollow shaft rotatably mounted in said bearing but fixed against longitudinal movement, guides extending downwardly from said bearing member and secured thereto, a spindle in the hollow shaft arranged to be driven thereby and adapted for reciprocation therein, a slide mounted between the guides, a connection between the spindle and the slide whereby the spindle and slide are reciprocated together, a hollow chisel connected to the slide and arranged to be moved therewith, and a boring tool mounted in the spindle and extending through the slide and chisel.

1,471,994. OIL FILTER. CARVER WOOD, Fort Wayne, Ind., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Mar. 10, 1920. Serial No. 364,666. 4 Claims. (Cl. 210—44.)

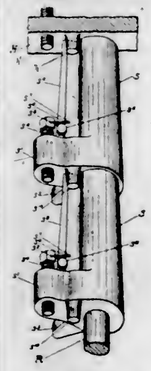


1. In a batch filter of the character indicated, in combination with a general container, having a precipitation chamber within the same; a filter strainer also within said container, an external gravity connection between said precipitation chamber and filter and means for applying external heat to said gravity connection.

1,471,995. STOP MECHANISM. LINNAEUS E. BAKER, Fort Wayne, Ind., assignor to Wayne Tank & Pump Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Oct. 10, 1922. Serial No. 593,570. 3 Claims. (Cl. 221—103.)

1. A shaft with a plurality of machine elements longitudinally mounted thereon and adapted to be rotated a part rotation and means on said elements

adapted by the forward rotation of any of said elements to insure the forward rotation of all elements on one side of the positively rotated element not already in the forward position, and means on said elements adapted



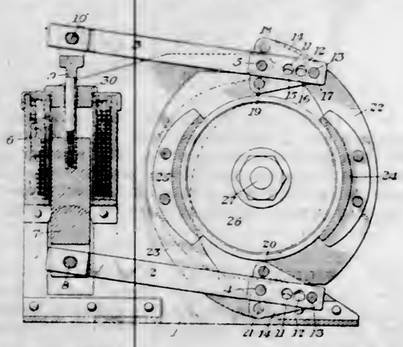
by the backward rotation of any of said elements to insure the backward rotation of all elements on the other side of the positively rotated element not already in the said backward position.

1,471,996. SPECTACLES. JOHN M. BAILEY, Pittsburgh, Pa. Filed July 14, 1921. Serial No. 484,637. 7 Claims. (Cl. 88—41.)



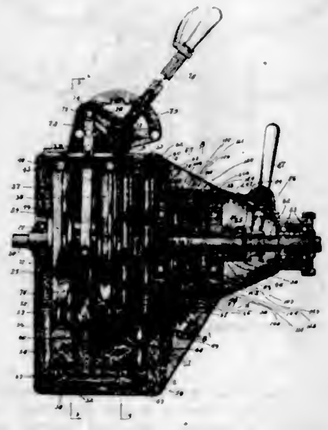
6. In an optical device, a pair of lenses each having portions of different foci, supporting means maintaining said lenses in operative relation, and means for simultaneously rotating said lenses within said supporting means, each lens being rotatable about an axis extending at an angle to the plane of the lens, substantially as described.

1,471,997. BRAKE. HAROLD W. CLARK, Alliance, Ohio, assignor to The Alliance Machine Company, Alliance, Ohio, a Corporation of Ohio. Filed Dec. 19, 1921. Serial No. 523,276. 13 Claims. (Cl. 188—174.)



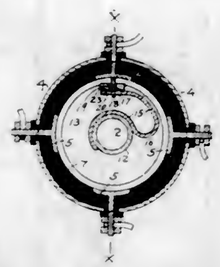
5. In a brake device, the combination of a brake drum, brake members encircling said drum, eccentric means pivotally mounted independently of said members and connecting the adjacent ends thereof, and means for actuating said eccentric means to cause an equal angular movement of said brake members about the pivot points of said eccentric means, substantially as described.

1,471,998. VARIABLE-SPEED TRANSMISSION. DANIEL W. DRISCOLL, New York, N. Y., assignor to Driscoll Patents Company, Wilmington, Del., a Corporation of Delaware. Continuation of application Serial No. 320,300, filed Aug. 27, 1919. This application filed Dec. 24, 1919. Serial No. 347,162. 38 Claims. (Cl. 74—53.)



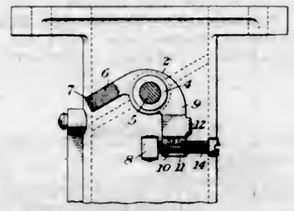
1. In a variable speed transmission mechanism, the combination of an element to be driven which has a surface of revolution, an impeller having a working face that is complemental to said surface of revolution, an eccentric that is mounted on said center of revolution, means for oscillating said eccentric, said impeller being mounted on said eccentric, and rigid means for effecting the return stroke of said impeller.

1,471,999. AUTOMOBILE TIMER. WILLIAM H. DYER, Douglas Township, Montcalm County, Mich., assignor of one-half to Emma Raymond, Entrican, Mich. Filed Aug. 11, 1922. Serial No. 581,250. 5 Claims. (Cl. 200—26.)



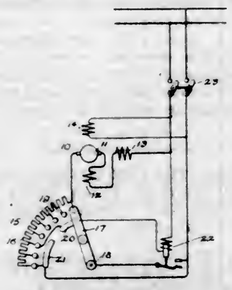
3. The combination in a timer for internal combustion engines, distributing contacts arranged in a circle; a distributor shaft positioned within the circle formed by said contacts and revolving with said engine; a hub removably mounted on said shaft so as to revolve therewith, but free to oscillate thereon, and a contact brush removably mounted on the outer extremity of said spring and adapted, as said shaft revolves, to engage successively with said contacts.

1,472,000. STOP LEVER. FRANK E. FERRIS, Detroit, Mich., assignor to Societe du Carburateur, Lyon, France, a Corporation of France. Filed Aug. 10, 1922. Serial No. 580,900. 9 Claims. (Cl. 74—5.)



1. In a stop lever, a main body having an arm comprising overlapped portions extending out of parallelism and forming a tapered opening for an adjustable stop, the portions forming the walls of said opening being capable of a greater yielding movement at the small end of said opening than at the large end thereof, substantially as described.

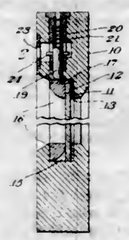
1,472,001. SYSTEM AND APPARATUS FOR MOTOR CONTROL. JOHN A. HEPPERLEN, East Orange, N. J., assignor to General Electric Company, a Corporation of New York. Filed Feb. 13, 1923. Serial No. 618,835. 3 Claims. (Cl. 172—179.)



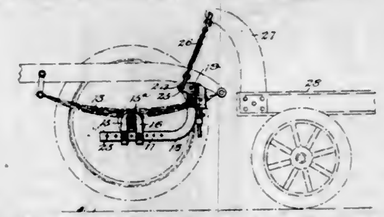
1. A motor controller comprising a rheostat arranged to be included in the motor circuit and having an adjustable member for varying at will the amount of the resistance of said rheostat which is to be retained in the motor circuit, an electromagnetic switch for short circuiting the portion of the resistance of said rheostat which is to be excluded from the motor circuit, and connections whereby the said switch is energized to close substantially simultaneously with the connection of the motor to a source of supply when the amount of the resistance of said rheostat which is to be retained in the motor circuit is comparatively high and the said switch is energized to close responsively to the speed of the motor when the amount of the resistance of said rheostat which is to be retained in the motor circuit is comparatively low.

1,472,002. WINDOW SASH. WALTER E. HOLT, Loris, S. C. Filed Apr. 8, 1922. Serial No. 550,722. 1 Claim. (Cl. 20—56.1.)

The combination of a sash, and means for retaining a glass panel in the sash, said sash having a transverse opening in the top thereof and a vertical bore intersecting said opening, said means comprising a sleeve like member arranged in said bore, a spring pressed locking bolt operating in said sleeve, said sleeve having opposed slots, a pin projecting from said bolt and through said slots and adapted to receive a key for operating said bolt, a panel retaining frame positioned in said sash, a lug projecting from said frame and having a recess disposed immediately beneath said bore, and adapted to receive said bolt, a plate secured to said sash covering the opening therein and having a key hole slot receiving said key.

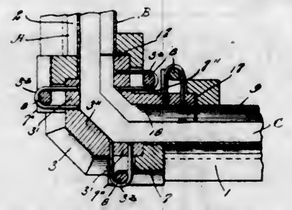


1,472,003. AUTOMOBILE TOWING FRAME. HENRY M. HOLT, New York, N. Y. Filed Apr. 12, 1922. Serial No. 551,859. 6 Claims. (Cl. 294—82.)



1. An automobile towing frame which comprises a cross yoke bar extending transversely of the machine at the end thereof, an adjustable supporting member at each end of said cross yoke bar to engage with the sides of the automobile, a longitudinally extending member connected to the cross yoke bar, said longitudinally extending member extending under the axle, clamping plates on said longitudinally extending member adapted to engage the axle, and means for connecting the towing apparatus to the frame at a point between the cross yoke bar and the inner end of the longitudinally extending member.

1,472,004. MOLD FORM. CHRISTOPHER C. JONES, Chipley, Ga. Filed June 28, 1921. Serial No. 481,072. 1 Claim. (Cl. 25—130.)

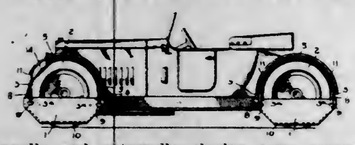


A mold of the class described comprising interior and exterior members, each member consisting of side and end pieces and corner pieces, said side and end pieces having recesses therein for receiving parts of the corner pieces, lugs at the ends of the side and end pieces and said pieces having notches in their ends adjacent the lugs, staples on the corner pieces engaging said notches and pins for engaging the staples and resting against the lugs.

1,472,005. GUARD FOR MOTOR VEHICLES AND THE LIKE. JOHN WILLIAM JONES, Auckland, New Zealand. Filed May 7, 1921. Serial No. 467,699. 3 Claims. (Cl. 280—153.)

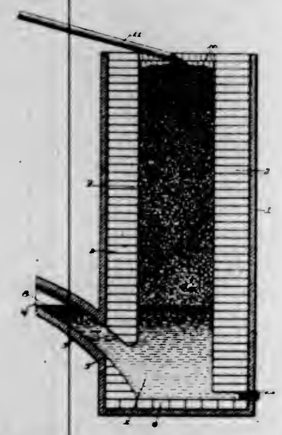
1. A guard for motor and other vehicles, comprising stays secured to the vehicle, a guard plate hinged at the

lower ends of said stays for movement about a horizontal axis and arranged at the outer side of one of the vehicle wheels, said plate being imperforate and adapted to cover substantially the entire lower half of the wheel,



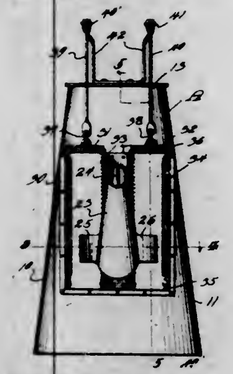
downwardly and outwardly sloping arms arranged between the plate and wheel for limiting the movement of the plate towards said wheel, and springs normally causing said plate to rest on said arms.

1,472,006. METHOD AND APPARATUS FOR THE REDUCTION OF IMPURITIES CONTAMINATING MOLTEN METALS. LLEWELLYN JONES, Muncie, Ind. Filed Oct. 3, 1922. Serial No. 592,041. 8 Claims. (Cl. 266—34.)



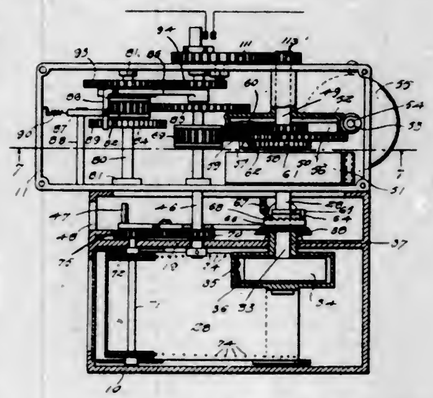
1. In the production of metals for foundry uses, the process which consists in passing molten metal direct from a blast furnace or cupola through a filtering material in an open vessel to remove the greater part of sulphur and phosphorus.

1,472,007. TEA AND COFFEE POT. SHEPARD JONES, Tarentum, Pa. Filed Apr. 12, 1923. Serial No. 631,663. 3 Claims. (Cl. 53—3.)



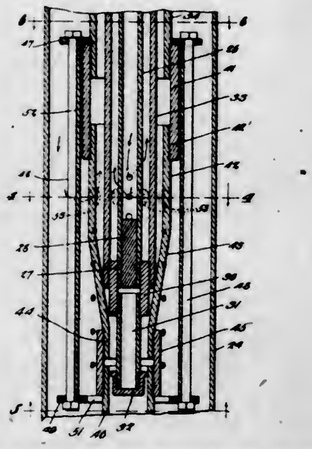
1. A coffee and tea pot comprising a body, a longitudinally extending partition arranged in the body dividing the same into a pair of independent compartments, a spout for said body, arcuate passageways connecting the compartments with the spout, sliding valves for controlling the flow of liquid through said passageways, and a handle for the body, and means disposed adjacent to said handle for operating said slide valves.

1,472,008. CHANGEABLE EXHIBITOR FOR CARS. DIRK A. KLEIMAN, Ogden, Utah. Filed Mar. 18, 1922. Serial No. 544,879. 11 Claims. (Cl. 40—92.)



2. An exhibitor having an exhibitor member, an actuating mechanism to periodically move said member in the same direction, a spring motor to expend its energy to drive said mechanism, and means operable through movement of said mechanism in the intervals between operations of the exhibitor member to rewind said spring motor without affecting the direction of movement of the exhibitor member.

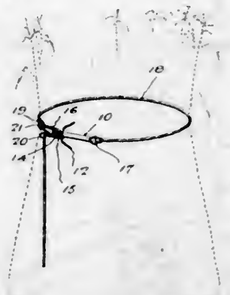
1,472,009. APPARATUS FOR CONSERVING GAS, OIL, AND OTHER FLUIDS. JAMES BRUCE KNIGHT, El Paso, Tex. Filed Nov. 7, 1921. Serial No. 513,576. 4 Claims. (Cl. 103—232.)



1. In apparatus of the class described the combination with a casing and tubing therein, of a casing head having an orifice for receiving gas under pressure to direct it between the casing and tubing to elevate liquid within the tubing, a screen through which liquid is forced when flowing from the casing to the tubing, a tapered nipple supported by the tubing and within the screen, and a thimble seated within the nipple and including a tubular

shell, a tubular shaft within and spaced from the shell, said shaft being closed at its lower end, means for closing the space between the lower ends of the shell and shaft, said shaft having a gas port adjacent its closed end opening into the shell, and means for directing gas under pressure into the shaft, said tube terminating at its upper end below the upper end of the tubing.

1,472,010. BINDER. JAMES W. KRIKAVA, Myrtle, Minn. Filed Dec. 4, 1922. Serial No. 604,948. 3 Claims. (Cl. 24—115.)

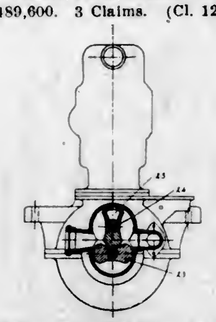


1. A shock binder comprising in combination with a flexible member, a shock engaging member secured to one end thereof, a sleeve slidable upon the flexible member, a flexible member engaging means carried by the sleeve and combined means for securing the flexible member engaging means to the sleeve and for holding the latter against sliding movement.

1,472,011. BASE-EXCHANGE SILICATE AND PROCESS OF PREPARING THE SAME. YONG K. LEE, Chicago, Ill., assignor to The Borromite Company of America, Chicago, Ill., a Corporation of Illinois. Filed Oct. 8, 1920. Serial No. 415,524. 12 Claims. (Cl. 23—13.)

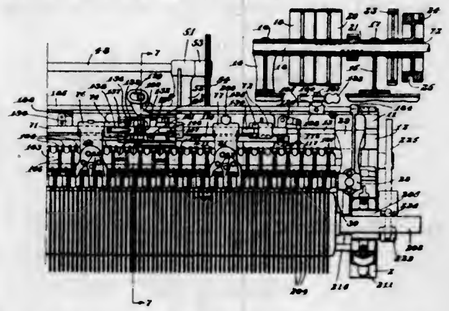
11. A base exchange silicate, comprising natural base exchange silicate particles having a coating of artificial base exchange silicates.

1,472,012. METHOD OF BALANCING DISTURBING FORCES AND COUPLES WHICH ARE PRODUCED IN A RECIPROCATING ENGINE. CHARLES LÉONARD ARMAND MAURICE LEBLANC, Paris France, assignor to Société Anonyme pour l'Exploitation des Procédés Maurice Leblanc-Vickers, Paris, France. Filed Aug. 3, 1921. Serial No. 489,600. 3 Claims. (Cl. 123—1.)



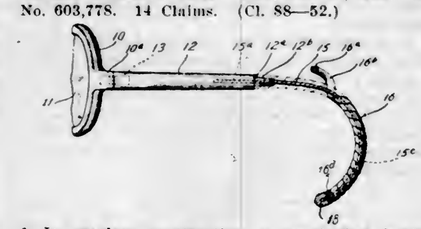
1. In combination with the cylinders and pistons of a two cycle engine, a crank shaft, separate piston rods between the shaft and the separate pistons, and means for delivering air under pressure to the engine and for balancing the engine, comprising a blower, consisting of a casing located on the frame of the engine and communicating with a cylinder of the engine, a balanced impeller mounted on said crank shaft, and located in said casing, an unbalanced impeller located within said casing and cooperating with the balanced impeller, a shaft on which the unbalanced impeller is mounted, located eccentrically of said crank shaft and spaced a predetermined distance therefrom and means for driving said last mentioned shaft at the same speed as said crank shaft.

1,472,013. SAW-GUMMING MACHINE. ROBERT W. MCLEAN, Bridgewater, Mass., assignor to Carver Cotton Gin Company, East Bridgewater, Mass., a Corporation of Massachusetts. Filed July 26, 1922. Serial No. 577,577. 43 Claims. (Cl. 76—32.)



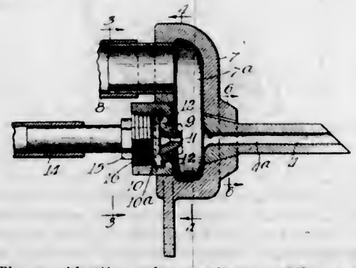
1. A saw gumming machine comprising a longitudinally movable rotary shaft, a plurality of independent supports mounted to swing thereon, a file shaft mounted in bearings in each support and extending at an angle to said first named shaft, a disc file secured to each file shaft, means for transmitting motion of rotation of said first shaft to the several file shafts, and means for imparting intermittent longitudinal movement to said first shaft.

1,472,014. TEMPLE-BAR CONSTRUCTION. STEPHEN J. CLULEE, Attleboro, Mass. Filed Nov. 28, 1922. Serial No. 603,778. 14 Claims. (Cl. 88—52.)



1. In eyeglass construction, a temple bar having a main body portion of celluloid, a coiled metallic extension secured thereto and extending rearwardly thereof, and a coiled celluloid extension surrounding said coiled metallic extension.

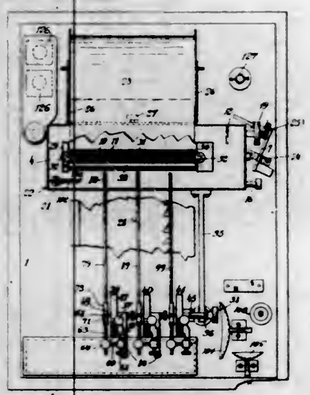
1,472,015. SAND-BLAST NOZZLE. RICHARD G. COBURN, Chicago, Ill. Filed Mar. 20, 1918. Serial No. 225,784. 7 Claims. (Cl. 51—11.)



4. The combination of a casing providing a mixing chamber, a sand inlet opening into said mixing chamber.

an air nozzle arranged to direct air into said chamber below the sand inlet, said air nozzle being provided with a central relatively large orifice and with supplemental relatively small orifices, which latter surround the main orifice and are inclined so as to point in front of the main air inlet and a discharge nozzle secured to said casing on the side thereof opposite said air nozzle and having its bore substantially in alinement with the central air orifice.

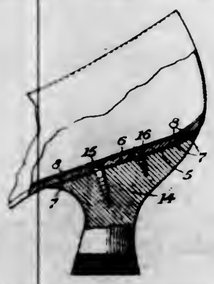
1,472,016. POLYGRAPH. CHARLES E. DRESSLER, New York, N. Y. Filed Sept. 28, 1921. Serial No. 503,794. 9 Claims. (Cl. 234—1.)



2. In an apparatus of the character described, a recording mechanism comprising a roll of paper, a recording pen, a tambour for operating said pen to make a record on the paper, and means for adjusting said tambour and pen to insure vertical alinement of the pen with respect to the said paper.

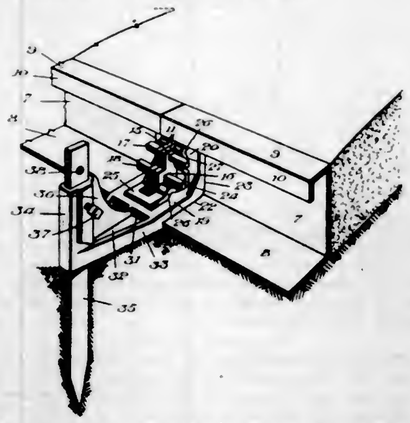
9. In an apparatus of the character described the combination of record receiving paper, a pen for recording on said paper, a tambour for operating said pen, a receiving cup adapted to be applied at the place the pulsation of which is to be recorded, a tubing for connecting said cup and tambour and a valve in said tubing for releasing the air pressure therein to place said pen in zero position at the beginning of the record.

1,472,017. SHOE AND PROCESS OF MAKING THE SAME. SYLVESTER EVANS, Woodhaven, N. Y., assignor to Joseph Burger, Brooklyn, N. Y. Filed Mar. 8, 1923. Serial No. 623,596. 2 Claims. (Cl. 36—34.)



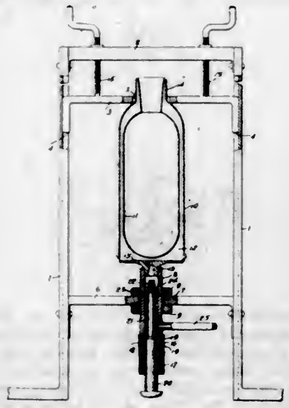
1. A shoe having a sole, a substantially flat and thin heel plate having a number of nailing perforations distributed over its face and fastened in a selected position over the outside of the heel portion of the shoe sole by fastenings driven through the nailing perforations suited to the positioning of the plate on the sole, said heel plate further having an opening or openings for one or more screws providing gages for driving screw holes up through the shoe sole, a wooden heel having a cavity in its upper face freely receiving the heel plate and enabling adjustment of the heel over the sole in all directions to fit the heel to the body of the shoe and a screw or screws passed down through the screw opening or openings in the sole and in the heel plate into the body of the heel and accessible within the shoe for drawing the heel firmly up against the heel plate and sole with its edges in close fitting engagement with the body of the shoe.

1,472,018. HOLD-TIGHT RAIL CONNECTION. FRANCIS O. HELTZEL, Warren, Ohio. Filed Mar. 5, 1921. Serial No. 449,917. 26 Claims. (Cl. 25—118.)



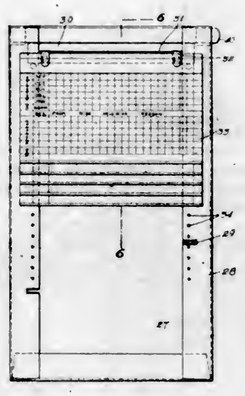
8. A concrete form comprising rails provided with outstanding portions in proximity to their adjacent ends, a joint member to fit against said rails over said portions, and means engageable with said portions for clamping said member and rails together.

1,472,019. HEAT AND COLD INSULATING RECEPTACLE AND APPARATUS FOR SUPPORTING AND FINISHING THE SAME. JOHN EDWARD HITCH, Cincinnati, Ohio. Filed June 2, 1921. Serial No. 474,544. 5 Claims. (Cl. 220—1.)



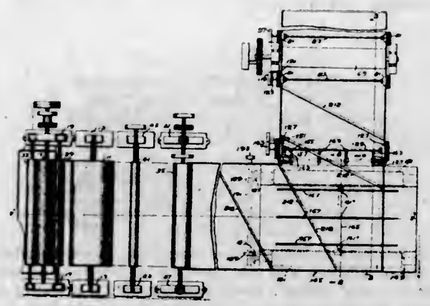
1. An apparatus of the character described, comprising a frame having a platform and provided with an adjustable cross head having an opening to receive the neck of a vessel, a tubular member mounted in the platform, said member forming a seat for the vessel and having means for connecting it with an air pump, and a driver bar in the tubular member and adapted to carry a plug for closing the vessel.

1,472,020. FILING SYSTEM. WILLIAM H. HOLMES, Mount Vernon, N. Y. Filed Nov. 2, 1920. Serial No. 421,258. 2 Claims. (Cl. 129—16.)



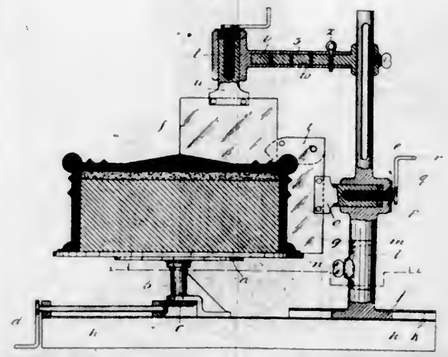
1. A filing system, including a backing sheet, said backing sheet being formed with grooves adjacent its side edges, one of the side walls of each of said grooves being formed with openings, the openings in opposite grooves being arranged in staggered relationship one to the other, and strips having ends adapted to pass through said openings and to be received in said grooves.

1,472,021. MACHINE FOR APPLYING REENFORCING FILAMENTS TO FABRICS. PATRICK T. JACKSON, Cambridge, and CHARLES H. HOWARD, Saugus, Mass., assignors to Paper Products Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 4, 1919. Serial No. 269,573. 12 Claims. (Cl. 154—1.)



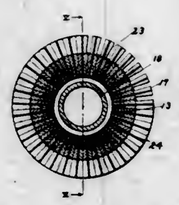
1. A machine for applying reenforcing filaments to paper comprising, in combination, means to feed paper sheets reinforced by longitudinally extending unspun fibers in transverse paths, means to sever sections from one of said sheets, and means progressively to feed said sections in the same direction as the other sheet and to overtake said sheet.

1,472,022. CAKE-ICING DEVICE. FREDERICK CHARLES COCKBILL, King's Heath, Birmingham, and JAMES HENRY VICTOR GRIMES, Moseley, Birmingham, England. Filed Oct. 11, 1922. Serial No. 593,814. 3 Claims. (Cl. 91—2.)



2. In a device for ornamenting iced cakes, the combination of a rotatable table, scraper blades, a standard for the blades at one side of the table pivoted to swing the blades away from the table, and a pivoted blade mounted on one of the other blades to swing into and out of scraper position thereon.

1,472,023. COMMUTATOR FOR DYNAMO-ELECTRIC MACHINES. LAWRENCE E. KOOS, Toledo, Ohio. Filed July 22, 1918. Serial No. 246,217. Renewed Mar. 20, 1923. 13 Claims. (Cl. 171—321.)



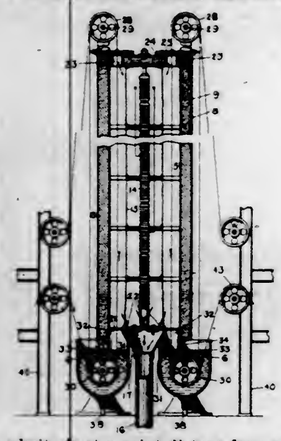
9. A commutator for dynamo electric machine comprising a plurality of segments each formed of a pair of similar members, each member having one portion with radial sides and another portion with substantially parallel sides, the thickness of the latter portion being such that a closed channel is formed through each segment.

1,472,024. WIRE-ENAMELING MACHINE. JOHN A. LEWELLYN, Toledo, Ohio. Filed Aug. 11, 1919. Serial No. 316,810. 6 Claims. (Cl. 91—55.)

1. In a device of the class described, the combination of an enamel bath, an oven adjacent thereto, means for heating said oven, means for causing wire to pass through said enamel bath and subsequently through said oven, means for withdrawing heated air and fumes from said oven and means for preventing contact of outside air with said wire intermediate said bath and oven.

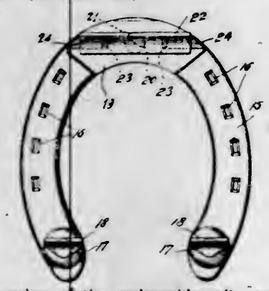
4. In a device of the class described, the combination of means for applying a coat of enamel to wire, an oven through which said wire is adapted to be passed, a pump

for withdrawing air from said oven in the vicinity of the point of entrance of said wire, said oven having an



opening to admit air at a point distant from said point of entrance and means for adjusting the size of said admission opening.

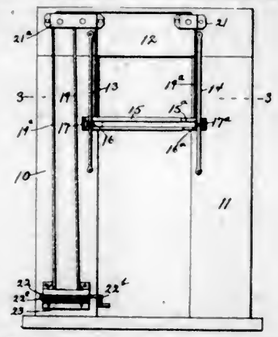
1,472,025. HORSESHOE AND CALK THEREFOR. JOHN PAFF, Allentown, Pa., assignor to Bryden-Neverslip Company, New Brunswick, N. J., a Corporation of New Jersey. Filed June 6, 1922. Serial No. 566,270. 2 Claims. (Cl. 168—33.)



1. A horseshoe of the replaceable calk type comprising a U-shaped part having a raised portion extending across the bottom of the toe of the shoe, there being a tapered hole extending through the raised portion and the body part of the toe and a groove or recess formed in the raised portion and extending from the outer end of the raised portion inwardly toward the tapered hole, and a replaceable toe calk consisting of a head of substantially the full width of the toe of the shoe and a tapered shank adapted to be driven into the tapered hole, the bottom of the head being provided with a lug adapted to be received in the recess to prevent the calk from turning, the parts being of such proportion that when the calk is in place, a space separates the bottom of the head from the adjacent surface of the raised portion to permit the insertion of a tool to remove the calk.

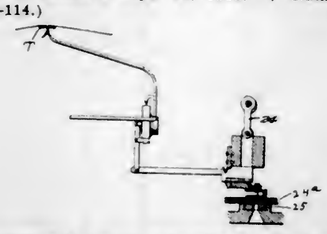
1,472,026. SHADE OR CURTAIN HOLDING FIXTURE. DONALD W. RUSSELL, Jefferson, Iowa. Filed Dec. 31, 1917. Serial No. 209,768. 1 Claim. (Cl. 156—27.)

A shade or curtain holding fixture comprising flat metal bars, one of which is formed throughout a portion of its length with turned edges forming guideways in which the other bar is received whereby said bars are adapted to be mounted in longitudinally-sliding relation with each other, the outermost end portions of said bars extending laterally and forming integral ears; said ears being formed with means for supporting a shade-roller, and eyes fixed to the respective bars adjacent to and between said ears,



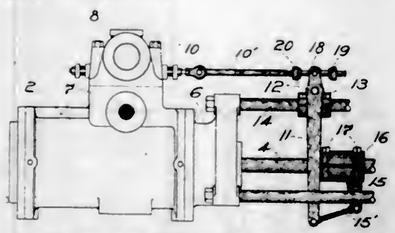
said eyes having their openings in the same horizontal plane and adapted to receive and have sliding engagement with suitable guides.

1,472,027. PNEUMATIC CONTROL. HARRY M. SALYER, Bloomfield, N. J. Filed Dec. 24, 1920, Serial No. 432,954. Renewed Sept. 22, 1923. 7 Claims. (Cl. 164—114.)



1. A pneumatic control comprising a suction chest, two oppositely disposed diaphragms, one of said diaphragms of greater area than the other, a casing forming a diaphragm chamber enclosing the larger diaphragm, a duct communicating with the diaphragm chamber and the suction chamber and an atmospheric duct for modifying the action of the suction duct.

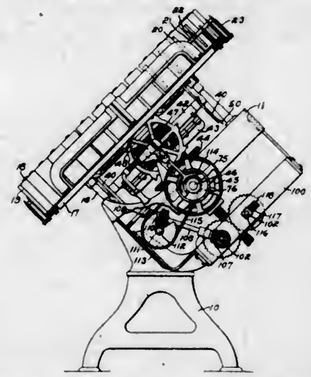
1,472,028. ENGINE. JEFFERSON MCBRIDE SHARP, Oil City, Pa., assignor to National Transit Pump & Machine Company, Oil City, Pa., a Corporation of Pennsylvania. Filed Oct. 7, 1919. Serial No. 329,007. 9 Claims. (Cl. 121—153.)



1. A single cylinder engine comprising in combination, a power cylinder, a piston operative in the bore of said cylinder, said cylinder being provided with a plurality of steam passages leading to the same end of said cylinder, each of said passages having a port communicating with the bore of said cylinder, said ports being differently positioned as to their proximity to the end wall of said bore, said cylinder being also provided with a single release passage; a steam chest carried by said cylinder with which all of said passages communicate, each through its individual port, a single valve of the D type adapted by movement in four directions to co-operate with and to

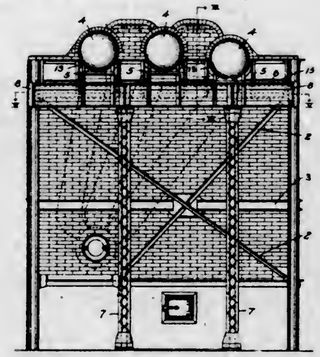
govern all of said steam chest ports for the admission of steam to said steam passages and the release of same from all of them into said release passage as and for the purpose set forth, and means arranged to actuate said valve accordingly, said means including a stem connected directly to said valve to which stem movement is transmitted by suitable intermediate mechanism from the rod of said piston, also a steam-actuated piston operably connected to said valve so as to actuate same in a plane transversely to the actuation of said stem.

1,472,029. CIRCULAR LOOM. JAMES S. WILSON, Chelsea, Mass.; Emma M. Wilson executrix of said James S. Wilson, deceased. Filed Sept. 20, 1921. Serial No. 501,997. 3 Claims. (Cl. 139—14.)



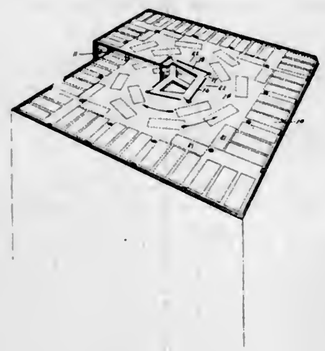
1. A circular loom for weaving tubular fabric comprising, in combination, a circular shuttle guide ring supported in a plane at an angle of approximately 45 degrees to the vertical, whereby to avoid undue acceleration of moving parts thereon to produce a substantially uniform fabric; a support for warp bobbins arranged approximately parallel to said guide ring, whereby to render the parts accessible from one side of the machine; a plurality of shuttles slidably mounted for rotation on said guide ring; and means to impart motion to said shuttles.

1,472,030. BOILER INSTALLATION. SAMUEL E. DIESCHER, Wilkinsburg, Pa., assignor to S. Diescher & Sons, a Partnership consisting of Samuel E. Diescher and August P. Diescher. Filed May 23, 1921. Serial No. 471,734. 4 Claims. (Cl. 122—510.)



1. A boiler installation having in combination a boiler having upper and lower drums and connecting tubes, a metal frame surrounding the boiler and forming part of the boiler setting, pillars, girders supported by the pillars and forming supports for the upper drums and means intermediate the girders and frame permitting independent vertical movements of said parts and tying together as against independent horizontal movements.

1,472,031. GARAGE OR OTHER BUILDING. SAMUEL C. LANCASTER and CHRISTIAN O. HJERMSTAD, Portland, Oreg., assignors, by direct and mesne assignments, to Autowhirl Corporation, Chicago, Ill., a Corporation of Illinois. Filed Feb. 12, 1921. Serial No. 444,562. 6 Claims. (Cl. 20—1.13.)



1. A building comprising a multi-turn helical floor forming a helical storage area having a width slightly greater than automobile length and a flanking helical traffic area providing for two lines of longitudinal traffic with freedom for lateral traffic for both lines of traffic at all points throughout its length, and a helical series of separated columns interposed between successive turns of the helix between the traffic area and storage area and so as not to prevent traffic over the storage area between the columns and between the columns and the walls.

1,472,032. APPARATUS FOR APPLYING VOLATILE SUBSTANCES TO THE HUMAN BODY. GERHARD MADAUS, Bonn, Germany. Filed Aug. 29, 1921. Serial No. 496,495. 1 Claim. (Cl. 128—256.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



A source of heat, a sleeve-shaped support for a volatilizable substance surrounding said source of heat, a cylindrical wire basket around the same, combined with a similar structure spaced therefrom, and an arched wire support for the bed-clothes, said wire support joining the said two structures.

Patents Nos. 1,472,033 to 1,472,777.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 315—No. 5. TUESDAY, OCTOBER 30, 1923. Price—$5 per year.

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Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Designs	49—No.	63,163 to No.	63,211, inclusive.
Patents	745—No.	1,472,033 to No.	1,472,777, inclusive.
Total	1183		

ADVERSE DECISIONS IN INTERFERENCE.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,428,554, S. Osterwell, Wardrobe trunk and garment-hanger bracket therefor, decided September 21, 1923, claims 1 and 2.

Pat. 1,440,341, C. C. Crispen, Differential, decided August 31, 1923, claims 3 and 4.

Interference Notices.

U. S. PATENT OFFICE, *Washington, Oct. 16, 1923.*

Joseph R. Marquette, his assigns or legal representatives, take notice:

An interference having been declared by this Office between Joannes Bros. Co., 118 South Washington Street, Green Bay, Wis., for registration of a trade-mark and trade-mark registered March 20, 1900, No. 34,332, to Joseph R. Marquette, 120 Front Street, New York, N. Y., and a notice of such declaration sent by registered mail to said Joseph R. Marquette at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Joseph R. Marquette, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Oct. 5, 1923.*

Overseas Products Corporation, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Everett Lawrence & Company, New Orleans, La., for registration of a trade-mark and trade-mark registered June 19, 1917, No. 117,195, to Overseas Products Corporation, 105–109 Hudson Street, New York, N. Y., and a notice of such declaration sent by registered mail to said Overseas Products Corporation at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Overseas Products Corporation, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Oct. 5, 1923.*

Albert Ruben & Co., their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Albert I. Straus, Main and North Streets, Lima, Ohio, for registration of a trade-mark and trade-mark registered May 14, 1907, No. 62,596, to Albert Ruben & Co., 709 West North Avenue, Chicago, Ill., and a notice of such declaration sent by registered mail to said Albert Ruben & Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Albert Ruben & Co., their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Oct. 4, 1923.*

The Bell Cap Company, their assigns or legal representatives, take notice:

An interference having been declared by this Office between William London, 119 North Main Street, High Point, N. C., for registration of a trade-mark and trade-mark registered September 19, 1922, No. 158,891, to The Bell Cap Company, 726 Market Street, Philadelphia, Pa., and a notice of such declaration sent by registered mail to said The Bell Cap Company at the said address having been returned by the post-office authorities as undeliverable, notice is hereby given that unless The Bell Cap Company, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

W. A. KINNAN,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business October 19, 1923.

(Total number of applications awaiting action, excluding Trade-Mark Division, 74,029; Trade-Mark Division, 3,228. Oldest new case, Dec. 20, 1922; oldest amended Dec. 21, 1922. The dates given are 1923 except where * indicates 1923.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders; Trees, Plants, and Flowers.	*Jan. 29	*Jan. 22	1,327
128	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	*Feb. 14	*Jan. 2	1,381
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	*Apr. 11	*Apr. 4	1,299
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	*Jan. 10	*Mar. 22	1,600
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Dec. 29	*Jan. 6	1,551
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Medicines; Plastic Compositions; Substance Preparation.	*Jan. 4	*Mar. 16	1,828
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	Feb. 5	*Feb. 9	2,753
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*Apr. 3	*May 14	1,795
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	*Feb. 15	*Sept. 7	866
235	10. HUNTER, O. F. (Acting), Motor Vehicles; Land Vehicles—Animal Draft Appliances, Bodies and Tops, Dumping, Wheel Substitutes.	*Jan. 8	*Apr. 16	1,546
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skin, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Apr. 21	*Mar. 28	940
322	12. PIERCE, F. P., Machine Elements	*Feb. 13	*Jan. 29	1,447
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	*Jan. 25	*May 31	1,214
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Dec. 20	*Sept. 5	1,039
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Dec. 27	*Jan. 5	2,070
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	*Jan. 11	*Jan. 11	2,633
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Association or Folding; Sheet or Web Feeding or Delivering; Type Setting.	*Jan. 5	*May 9	1,569
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	Dec. 20	Dec. 25	2,062
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	*May 24	*June 16	675
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Mar. 10	*Mar. 3	1,575
212	21. THURBER, W. L., Winding and Reeling; Textiles—Braiding, Netting, or Lace Making, Cloth Finishing, Fiber Preparation, Knitting, Spinning, Twisting or Twining, Weaving.	Dec. 21	*July 16	1,024
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	*Feb. 19	*Mar. 20	616
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	Dec. 21	Dec. 21	795
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	*Jan. 13	*Mar. 13	1,276
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Gas Separation.	*Apr. 7	*Apr. 17	1,089
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	*Jan. 2	*Jan. 2	1,050
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	*Jan. 2	*Feb. 28	1,449
225	28. BENSON, A. R., Internal-Combustion Engines	*Feb. 15	*Feb. 17	1,379
147	29. MORRIS, B. N., Abrading; Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	*Jan. 10	*Apr. 11	1,359
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	*Feb. 1	*July 25	1,934
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar, Starch, and Carbohydrates; Concentrating Evaporators.	*Jan. 13	Dec. 23	1,686
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	*Jan. 6	Dec. 26	1,369
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	*Jan. 20	*Jan. 15	1,700
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Feb. 23	*Apr. 2	906
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*May 11	*May 3	963
265	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Apr. 5	*Mar. 12	2,105
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	*Jan. 23	*Jan. 22	1,892
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	*Jan. 2	*Jan. 2	1,948
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	*Jan. 3	Dec. 22	1,318
269	40. OBERLIN, J. J., Baggage; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	*Jan. 2	*May 17	2,096
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	*Feb. 17	*Apr. 18	1,026
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	*Jan. 2	*Feb. 1	1,762
382	43. HOPKINS, F. M., Baths and Closets; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	*Jan. 23	*Jan. 5	1,887
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	*Jan. 11	*May 2	1,235
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	*Mar. 1	*Feb. 9	1,672
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	*Feb. 9	*Mar. 19	1,481
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time-Controlling Mechanism.	*Jan. 11	*Apr. 21	1,220
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Dec. 26	*Jan. 2	2,417
383	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	*Feb. 8	*Mar. 5	508
102	DESIGNS: C. O. MARKHAM (Acting)	*May 4	*June 13	1,587
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. (Trade-Marks	*July 3	*Sept. 5	3,049
	(Labels and Prints	*Sept. 26	*Oct. 2	179

DECISIONS IN PATENT AND TRADE-MARK CASES.

Commissioner's Decisions.

VICK CHEMICAL COMPANY *v.* SHELOR.

Decided March 31, 1923.

TRADE-MARKS—"VAPO-FUME" AND "VAPORUB"—OPPOSITION — SIMILARITY — ADMISSION BY APPLICANT'S ATTORNEY.

Where the attorney for applicant, the only witness appearing in his behalf, testified that an ignorant negro or uneducated person might possibly purchase "Vapo-Fume" in place of "Vaporub," *Held* that this is sufficient to raise a doubt whether the marks are sufficiently similar to be mistaken for each other in the trade, and the doubt must be resolved against applicant, who is the newcomer.

APPEAL from Examiner of Interferences.

TRADE-MARK FOR PREPARATION FOR EXTERNAL APPLICATION, ETC.

Mr. Frank F. Reed, Mr. Edward S. Rogers, Mr. Francis L. Browne, Mr. Francis M. Phelps, and *Mr. Dudley Browne* for Vick Chemical Company.

Mr. Monroe E. Miller for Shelor.

FENNING, *Assistant Commissioner:*

This is an appeal from the action of the Examiner of Interferences sustaining an opposition filed by the Vick Chemical Company against an application to register "Vapo-Fume" on a trade-mark for a medical preparation. Opposer has priority of use, with respect to substantially the same goods, of the mark "Vaporub." The only witness appearing in behalf of applicant is his attorney Miller. He testifies:

> It may be true that an ignorant negro or uneducated person, such as spoken of, with such emphasis by Mr. Richardson, might possibly purchase Vapo-Fume in place of Vaporub.

This is sufficient to raise a doubt as to whether the marks are sufficiently similar to be mistaken for each other in the trade and the doubt must be resolved against applicant, who is the newcomer.

The Examiner of Interferences is affirmed and the opposition is sustained.

J. I. CASE THRESHING MACHINE COMPANY *v.* EAGLE MOTOR TRUCK CORPORATION.

Decided April 7, 1923.

TRADE-MARKS—"EAGLE"—OPPOSITION—REGISTRATION REFUSED ON MARK WHICH WOULD GIVE BROADER RIGHT THAN OPPOSER WITH EARLIER-ESTABLISHED RIGHT CAN MAINTAIN IN VIEW OF STILL EARLIER RIGHTS OF OTHER PARTIES.

Where the opposer relies upon the prior registration of its trade-mark representing an eagle standing on a globe, but the applicant sets forth a long list of registrations of marks including an eagle with a distinguishing design applied to the same class of goods, such registrations having been made long prior to the date of use claimed by the opposer, *Held* that, since applicant's mark consists of nothing but the representation of an eagle and the word "Eagle," to register such a mark would give, theoretically, a broader right to the applicant than that which, in view of the prior registration, the opposer can maintain, and opposition sustained.

APPEAL from the Examiner of Interferences.

TRADE-MARK FOR AUTOMOBILE MOTOR TRUCKS.

Mr. James A. Walsh and *Messrs. Jacobi & Jacobi* for J. I. Case Threshing Machine Company.

Mr. Lee W. Mida for Eagle Motor Truck Corporation.

KINNAN, *First Assistant Commissioner:*

This is an opposition filed under the provisions of section 6 of the Trade-Mark Act of February 20, 1905, by the J. I. Case Threshing Machine Company against the registration of the mark "Eagle" by the Eagle Motor Truck Corporation.

The opposer relies upon its registration, No. 90,679, of its trade-mark representing an eagle standing on a globe picturing the world, used on automobiles. The opposer is regarded as the owner of this mark.

The mark sought to be registered by the applicant corporation consists of a representation of an eagle with spread wings and tail and with a panel extending horizontally across the center of the eagle's body and having upon the panel the word "Eagle." The applicant corporation applies the mark to motor trucks.

It must be held the conclusion of the Examiner of Trade-Mark Interferences that the classes of goods are similar or substantially the same is sound. The applicant corporation has set forth a long list of registrations by various manufacturers of marks including an eagle in connection with various distinguishing designs, which registrations were made long prior to the date of use claimed by the opposer. In view of this condition the applicant has invoked the doctrine of publici juris with respect to the word or representation of an eagle. A number of these registrations were of marks including an eagle with a distinguishing design applied to automobiles. It may be deemed established that the opposer is not the first to apply a representation of an eagle to automobiles, since there is no evidence to the contrary with respect to these prior registrants.

It must be deemed plain that if no one had, prior to opposer, used a mark upon automobiles including a representation of an eagle the opposition should be sustained. The eagle is the prominent feature of each mark; indeed it consists of substantially all there is of the applicant's mark, and anyone who sought to purchase the goods of one producer would be readily misled into purchasing those of another unless he looked at both marks. If he compared them, he would readily distinguish

the differences; but if he were told that an Eagle automobile was a good one to buy he would not know whether he was getting one of the make recommended or not. (*In re Reisch Brewing Company*, 188 O. G., 811; 39 App. D. C., 445.)

This case is somewhat distinguished from the case of this opposer versus *The American Motor Car Company*, decided December 18, 1912 (4 T. M. Rep., 45), on a motion to dissolve, in which case the testimony showed that the automobiles were known as "American" and "Case" automobiles and that there was no confusion. The case at bar is also to be distinguished from that of the Carson Glove Company, in which it was held there was no interference between a mark consisting of a representation of an eagle with extended wings perched upon a rock and holding in its beak a scroll and a representation of a bird described as an eagle perched upon a rock and accompanied by the words "La Rive Freres." It was noted in that case that the general appearance of the two marks was quite different and no opposition had been filed, and therefore no proof of any confusion or possible damage.

As to the contention of the applicant corporation that the opposer has no broad right to the exclusive use of the representation of an eagle the adjudicated cases somewhat support this view. In the case of *Liggett and Myers Tobacco Company* v. *Finzer* (128 U. S., 182; 45 O. G., 943) the Supreme Court refused to hold infringement by the defendant, who used a red star on tobacco, of the mark of the complainant, which was a tin star applied to the same class of goods. The Court largely rested its decision upon the fact that the complainant was not the first person to use a star on plug tobacco and could only be held to be the first to use a star made of tin and fastened as it was described. Somewhat the same view is expressed by the court of appeals, D. C., in the case of *Nestle and Anglo-Swiss Condensed Milk Company* v. *Walter Baker & Company* (167 O. G., 765; 37 App. D. C., 148). In that case the fact that the appellant was not the first to use the representation of a woman upon chocolates was deemed material in refusing to sustain the opposition. A further interesting case, somewhat to the same effect, is that of the *Shull-Day Co. v. The Levy Overalls Mfg. Co. (220 O. G., 1574; 45 App. D. C., 342).* In this case the applicant sought to register the word and figures "Big 3," with the figure of a man in overalls standing within the figure, and the registered mark of the opposer consisted of the words "Big Five," with the picture of five workmen

ter's mark consists of nothing but the representation of the eagle and the word "Eagle." There is nothing added to the "eagle," nothing distinctive, and to register such a mark would be to register broadly the word or symbol "eagle," thus giving, theoretically, a broader right to the applicant corporation than that which, in view of the prior registration, the opposer can maintain. It would seem, therefore, that even if the opposer is limited, by the prior rights of other users or registrants, to its particular design, yet the registration of applicant's mark would conflict with opposer's right. It is believed the applicant should not be granted registration. The decision of the Examiner of Trade-Marks sustaining the opposition is affirmed.

J. C. DOWD & CO., INC., *v.* NEWARK TORTOISE SHELL NOVELTY CO.

Decided May 19, 1923.

TRADE-MARKS—OPPOSITION—"IVOR-AMBRE" APPLIED TO THE SAME CLASS OF GOODS AS "IVOROYD" WOULD CAUSE CONFUSION.

The goods being the same, the first part of the mark "Ivor" would be impressed upon the mind of the average purchaser to such an extent that he would be likely, having in mind the particular class of goods he desired to purchase, to select the applicant's goods for those of the opposer.

APPEAL from the Examiner of Interferences.

TRADE-MARK FOR HAND MIRRORS AND PICTURE FRAMES.

Messrs. Serrell & Son for Dowd & Co.

Mr. Frederick F. Schultz and *Mr. Howard S. Neiman* for Newark Tortoise Shell Novelty Co.

KINNAN, *First Assistant Commissioner:*

The J. C. Dowd & Co., Inc., has filed an opposition against the registration, by the Newark Tortoise Shell Novelty Co., of the mark "Ivor-ambre" for use on hand mirrors and picture frames. The opposer sets up use and registration of the mark "Ivoroyd" for use on the same class of goods, long prior to the use claimed by the applicant.

The applicant claims use of its mark on celluloid goods, where the handle or other part of the toilet article is made up of a white layer and an amber-colored layer, producing a two-color effect. Opposer uses its mark upon white material; but there is evidence that it has used it upon a combination of the ivory material and the amber material, and that when it so used it the word amber was used in connection with the mark to designate color or class, rather than as a part of a trade-mark. Applicant has objected to the introduction of this testimony in connection with the alleged use of the mark on the two-color goods, because such claim was not set forth in the pleading. Ap-

Examiner of Trade-Mark Interferences was right in denying the motion to strike out this matter from the testimony submitted on the part of opposer.

It must be held that the class of goods involved in the opposition is the same. The question, therefore, to be decided is whether the marks are so similar as to probably cause confusion in the trade. It is contended on the part of the applicant that only a portion of the opposer's mark has been adopted and that such portion is descriptive and not subject to exclusive use by any one. The very excellent discussion of the various rulings in connection with marks having similar prefixes and dissimilar suffixes has been presented by both parties. Opposer notes that his registration was granted under the ten-year clause of the act of 1905, and that applicant has taken substantially the principal or characteristic portion of the mark and has added thereto a descriptive term. The Examiner of Trade-Marks held the descriptive part—"ambre"—was but a misspelling of "amber," and that this being descriptive it should be disregarded in determining the applicant's right to registration. When this was done, the decision was reached that the word "Ivor" was sufficiently similar to opposer's mark as to warrant the holding of probable confusion of goods or of origin.

Conflicting interests in connection with marks of the character here disclosed—where the prefixes are similar and the suffixes are dissimilar—are frequent, and the adjudicated cases are not readily reconciled. It may be noted, however, that where the prefix is a word in common use having a well-known meaning some courts have held that there was no conflict if the suffixes were different. Of this character is the holding in the case of *Feil* v. *Robbins Co.* (C. C. A., 220 Fed. Rep., 650), wherein the court held there was no conflict between "Sal-Vet" and "Saltone." Also substantially such conclusion was reached in the case of *Potter Drug & Chemical Corp.* v. *Pasfield Soap Co.* (C. C. A., 106 2nd Cir., 106 F. R., 914), wherein "Cuticle" was held not to infringe, in the absence of proof of confusion, the mark "Cuticura." In such instances, however, the fact was emphasized that the first word or prefix was descriptive and quite commonly used in the trade. *Where the prefix or first word is quite distinctive when applied as a mark, there are cases holding that a different suffix or second word is not* sufficient to avoid confusion. Holdings of this kind are the case of *Nafziger* v. *Schulze Baking Co.* (240 O. G., 941; 46 App. D. C., 292), wherein the marks "Butter-Krust" and "Butter-Nut" were held to interfere with "Butter-Cream." Also in the case

long use by opposer in its mark may be deemed to have given it something of a secondary meaning. Since the testimony shows that opposer has sold goods having the two-color characteristics and has placed thereon its mark, it is believed the applicant's mark if placed upon this same kind of goods would cause confusion in the minds of purchasers. The goods being the same, the first part of the mark "Ivor" would be impressed upon the mind of the average purchaser to such an extent that he would be likely, having in mind the particular kind of goods he desired to purchase, to select the applicant's goods for those of the opposer. It is believed any doubts in connection with probable confusion should be resolved against the newcomer.

The decision of the Examiner of Trade-Marks is affirmed.

U. S. Circuit Court of Appeals—Third Circuit.

PIANO MOTORS CORPORATION ET AL. *v.* MOTOR PLAYER CORPORATION.

Decided August 1, 1922.

[282 Fed. Rep., 435.]

1. PATENTS—NO QUESTION OF VALIDITY INVOLVED IN INFRINGEMENT SUIT BETWEEN ASSIGNOR AND ASSIGNEE.

In a patent infringement suit between assignor and assignee no question of validity of the patent is involved.

2. SAME—ASSIGNOR, SUED FOR INFRINGEMENT, CAN LITIGATE SCOPE.

While the assignor of a patent, sued for its infringement by the assignee, can not question its validity, he can litigate its scope and ask for a construction which relieves him from infringement.

3. SAME—NOT UNNECESSARILY CONSTRUED SO AS TO MAKE IT WORTHLESS AS BETWEEN ASSIGNOR AND ASSIGNEE.

As between assignor and assignee of a patent, courts will not unnecessarily construe it so narrowly as to make it worthless.

4. SAME—EVIDENCE ATTACKING VALIDITY CAN NOT BE INTRODUCED BY ASSIGNOR FOR OSTENSIBLE PURPOSE OF NARROWING SCOPE.

An inventor who has assigned the patent can not introduce evidence for the ostensible purpose of so narrowing its scope as to avoid infringement, but which in fact attacks its validity for want of novelty.

5. SAME—WHEN PRIOR ART NOT SHOWN, CLAIMS MERELY CONSTRUED ON THEIR FACE.

In suit for infringement of patent between assignor and assignee, where the prior art was not shown, the court will not attempt to determine the place therein occupied by the invention in suit, but will merely construe its claims on their face.

6. SAME—1,320,224, FOR SUCTION-PRODUCING APPARATUS FOR PLAYER PIANOS, HELD INFRINGED.

The Garman patent, No. 1,320,224, for a motor-driven suction producing apparatus for a player piano,

DECISIONS IN PATENT AND TRADE-MARK CASES.

Commissioner's Decisions.

VICK CHEMICAL COMPANY *v.* SHELOR.

Decided March 31, 1923.

TRADE-MARKS—"VAPO-FUME" AND "VAPORUB"—OPPOSITION—SIMILARITY—ADMISSION BY APPLICANT'S ATTORNEY.

Where the attorney for applicant, the only witness appearing in his behalf, testified that an ignorant negro or uneducated person might possibly purchase "Vapo-Fume" in place of "Vaporub," *Held* that this is sufficient to raise a doubt whether the marks are sufficiently similar to be mistaken for each other in the trade, and the doubt must be resolved against applicant, who is the newcomer.

APPEAL from Examiner of Interferences.

TRADE-MARK FOR PREPARATION FOR EXTERNAL APPLICATION, ETC.

Mr. Frank F. Reed, Mr. Edward S. Rogers, Mr. Francis L. Browne, Mr. Francis M. Phelps, and *Mr. Dudley Browne* for Vick Chemical Company.

Mr. Monroe E. Miller for Shelor.

FENNING, *Assistant Commissioner:*

This is an appeal from the action of the Examiner of Interferences sustaining an opposition filed by the Vick Chemical Company against an application to register "Vapo-Fume" on a trade-mark for a medical preparation. Opposer has priority of use, with respect to substantially the same goods, of the mark "Vaporub." The only witness appearing in behalf of applicant is his attorney Miller. He testifies:

> It may be true that an ignorant negro or uneducated person, such as spoken of, with such emphasis by Mr. Richardson, might possibly purchase Vapo-Fume in place of Vaporub.

This is sufficient to raise a doubt as to whether the marks are sufficiently similar to be mistaken for each other in the trade and the doubt must be resolved against applicant, who is the newcomer.

The Examiner of Interferences is affirmed and the opposition is sustained.

J. I. CASE THRESHING MACHINE COMPANY *v.* EAGLE MOTOR TRUCK CORPORATION.

Decided April 7, 1923.

TRADE-MARKS—"EAGLE"—OPPOSITION—REGISTRATION REFUSED ON MARK WHICH WOULD GIVE BROADER RIGHT THAN OPPOSER WITH EARLIER-ESTABLISHED RIGHT CAN MAINTAIN IN VIEW OF STILL EARLIER RIGHTS OF OTHER PARTIES.

Where the opposer relies upon the prior registration of its trade-mark representing an eagle standing on a globe, but the applicant sets forth a long list of registrations of marks including an eagle with a distinguishing design applied to the same class of goods, such registrations having been made long prior to the date of use claimed by the opposer, *Held* that, since applicant's mark consists of nothing but the representation of an eagle and the word "Eagle," to register such a mark would give, theoretically, a broader right to the applicant than that which, in view of the prior registration, the opposer can maintain, and opposition sustained.

APPEAL from the Examiner of Interferences.

TRADE-MARK FOR AUTOMOBILE MOTOR TRUCKS.

Mr. James A. Walsh and *Messrs. Jacobi & Jacobi* for J. I. Case Threshing Machine Company.

Mr. Lee W. Mida for Eagle Motor Truck Corporation.

KINNAN, *First Assistant Commissioner:*

This is an opposition filed under the provisions of section 6 of the Trade-Mark Act of February 20, 1905, by the J. I. Case Threshing Machine Company against the registration of the mark "Eagle" by the Eagle Motor Truck Corporation.

The opposer relies upon its registration, No. 90,679, of its trade-mark representing an eagle standing on a globe picturing the world, used on automobiles. The opposer is regarded as the owner of this mark.

The mark sought to be registered by the applicant corporation consists of a representation of an eagle with spread wings and tail and with a panel extending horizontally across the center of the eagle's body and having upon the panel the word "Eagle." The applicant corporation applies the mark to motor trucks.

It must be held the conclusion of the Examiner of Trade-Mark Interferences that the classes of goods are similar or substantially the same is sound. The applicant corporation has set forth a long list of registrations by various manufacturers of marks including an eagle in connection with various distinguishing designs, which registrations were made long prior to the date of use claimed by the opposer. In view of this condition the applicant has invoked the doctrine of publici juris with respect to the word or representation of an eagle. A number of these registrations were of marks including an eagle with a distinguishing design applied to automobiles. It may be deemed established that the opposer is not the first to apply a representation of an eagle to automobiles, since there is no evidence to the contrary with respect to these prior registrants.

It must be deemed plain that if no one had, prior to opposer, used a mark upon automobiles including a representation of an eagle the opposition should be sustained. The eagle is the prominent feature of each mark; indeed it consists of substantially all there is of the applicant's mark, and anyone who sought to purchase the goods of one producer would be readily misled into purchasing those of another unless he looked at both marks. If he compared them, he would readily distinguish

the differences; but if he were told that an Eagle automobile was a good one to buy he would not know whether he was getting one of the make recommended or not. (*In re Reisch Brewing Company*, 188 O. G., 811; 39 App. D. C., 445.)

This case is somewhat distinguished from the case of this opposer versus *The American Motor Car Company*, decided December 18, 1912 (4 T. M. Rep., 45), on a motion to dissolve, in which case the testimony showed that the automobiles were known as "American" and "Case" automobiles and that there was no confusion. The case at bar is also to be distinguished from that of the Carson Glove Company, in which it was held there was no interference between a mark consisting of a representation of an eagle with extended wings perched upon a rock and holding in its beak a scroll and a representation of a bird described as an eagle perched upon a rock and accompanied by the words "La Rive Freres." It was noted in that case that the general appearance of the two marks was quite different and no opposition had been filed, and therefore no proof of any confusion or possible damage.

As to the contention of the applicant corporation that the opposer has no broad right to the exclusive use of the representation of an eagle the adjudicated cases somewhat support this view. In the case of *Liggett and Myers Tobacco Company* v. *Finzer* (128 U. S., 182; 45 O. G., 943) the Supreme Court refused to hold infringement by the defendant, who used a red star on tobacco, of the mark of the complainant, which was a tin star applied to the same class of goods. The Court largely rested its decision upon the fact that the complainant was not the first person to use a star on plug tobacco and could only be held to be the first to use a star made of tin and fastened as it was described. Somewhat the same view is expressed by the court of appeals, D. C., in the case of *Nestle and Anglo-Swiss Condensed Milk Company* v. *Walter Baker & Company* (167 O. G., 765; 37 App. D. C., 148). In that case the fact that the appellant was not the first to use the representation of a woman upon chocolates was deemed material in refusing to sustain the opposition. A further interesting case, somewhat to the same effect, is that of the *Shull-Day Co.* v. *The Levy Overalls Mfg. Co.* (229 O. G., 1574; 45 App. D. C., 342). In this case the applicant sought to register the word and figures "Big 3," with the figure of a man in overalls standing within the figure, and the registered mark of the opposer consisted of the words "Big Five," with the picture of five workmen grouped in a loop of the five. It appeared a third party had a prior registration of "Big 4" for the same class of goods, and it was held the opposer's right to the use of the word "Big" was limited to its association with the particular figure five adopted by it, and the opposition was not sustained.

These cases would be persuasive of applicant's contention if it were not for the fact that the latter's mark consists of nothing but the representation of the eagle and the word "Eagle." There is nothing added to the "eagle," nothing distinctive, and to register such a mark would be to register broadly the word or symbol "eagle," thus giving, theoretically, a broader right to the applicant corporation than that which, in view of the prior registration, the opposer can maintain. It would seem, therefore, that even if the opposer is limited, by the prior rights of other users or registrants, to its particular design, yet the registration of applicant's mark would conflict with opposer's right. It is believed the applicant should not be granted registration. The decision of the Examiner of Trade-Marks sustaining the opposition is affirmed.

J. C. DOWD & CO., INC., *v.* NEWARK TORTOISE SHELL NOVELTY CO.

Decided May 19, 1923.

TRADE-MARKS—OPPOSITION—"IVOR-AMBRE" APPLIED TO THE SAME CLASS OF GOODS AS "IVOROID" WOULD CAUSE CONFUSION.

The goods being the same, the first part of the mark "Ivor" would be impressed upon the mind of the average purchaser to such an extent that he would be likely, having in mind the particular class of goods be desired to purchase, to select the applicant's goods for those of the opposer.

APPEAL from the Examiner of Interferences.

TRADE-MARK FOR HAND MIRRORS AND PICTURE FRAMES.

Messrs. Serrell & Son for Dowd & Co.

Mr. Frederick F. Schultz and *Mr. Howard S. Neiman* for Newark Tortoise Shell Novelty Co.

KINNAN, *First Assistant Commissioner:*

The J. C. Dowd & Co., Inc., has filed an opposition against the registration, by the Newark Tortoise Shell Novelty Co., of the mark "Ivor-ambre" for use on hand mirrors and picture frames. The opposer sets up use and registration of the mark "Ivoroyd" for use on the same class of goods, long prior to the use claimed by the applicant.

The applicant claims use of its mark on celluloid goods, where the handle or other part of the toilet article is made up of a white layer and an amber-colored layer, producing a two-color effect. Opposer uses its mark upon white material; but there is evidence that it has used it upon a combination of the ivory material and the amber material, and that when it so used it the word amber was used in connection with the mark to designate color or class, rather than as a part of a trade-mark. Applicant has objected to the introduction of this testimony in connection with the alleged use of the mark on the two-color goods, because such claim was not set forth in the pleading. Applicant vigorously contends that the opposer should be confined to its pleadings. Applicant is right in this latter contention; but as I read the pleadings it is not believed they exclude the evidence submitted in support of opposer's claim to prior use of its trade-mark on goods possessing similar descriptive properties to those upon which applicant claims to have used its mark. It would seem the Examiner of Trade-Mark Interferences was right in denying the motion to strike out this matter from the testimony submitted on the part of opposer.

It must be held that the class of goods involved in the opposition is the same. The question, therefore, to be decided is whether the marks are so similar as to probably cause confusion in the trade. It is contended on the part of the applicant that only a portion of the opposer's mark has been adopted and that such portion is descriptive and not subject to exclusive use by any one. The very excellent discussion of the various rulings in connection with marks having similar prefixes and dissimilar suffixes has been presented by both parties. Opposer notes that his registration was granted under the ten-year clause of the act of 1905, and that applicant has taken substantially the principal or characteristic portion of the mark and has added thereto a descriptive term. The Examiner of Trade-Marks held the descriptive part—"ambre"—was but a misspelling of "amber," and that this being descriptive it should be disregarded in determining the applicant's right to registration. When this was done, the decision was reached that the word "Ivor" was sufficiently similar to opposer's mark as to warrant the holding of probable confusion of goods or of origin.

Conflicting interests in connection with marks of the character here disclosed—where the prefixes are similar and the suffixes are dissimilar—are frequent, and the adjudicated cases are not readily reconciled. It may be noted, however, that where the prefix is a word in common use having a well-known meaning some courts have held that there was no conflict if the suffixes were different. Of this character is the holding in the case of *Feil* v. *Robbins Co.* (C. C. A., 220 Fed. Rep., 650), wherein the court held there was no conflict between "Sal-Vet" and "Saltone." Also substantially such conclusion was reached in the case of *Potter Drug & Chemical Corp.* v. *Pasfield Soap Co.* (C. C. A., 106 2nd Cir., 106 F. R., 914), wherein "Cuticle" was held not to infringe, in the absence of proof of confusion, the mark "Cuticura." In such instances, however, the fact was emphasized that the first word or prefix was descriptive and quite commonly used in the trade. Where the prefix or first word is quite distinctive when applied as a mark, there are cases holding that a different suffix or second word is not sufficient to avoid confusion. Holdings of this kind are the case of *Nafziger* v. *Schulze Baking Co.* (240 O. G., 941; 46 App. D. C., 292), wherein the marks "Butter-Krust" and "Butter-Nut" were held to interfere with "Butter-Cream." Also in the case of *Griggs, Copper & Co.* v. *The Federal Coffee Mills Co.* (240 O. G., 338; 46 App. D. C., 317) "Home Pride" was held to infringe "Home" and "Home Brand."

In the case at bar, the word "Ivor" is not a common word, and while it is suggestive yet it is not wholly descriptive. To the extent that it is not wholly descriptive, it would seem to be fanciful. Its long use by opposer in its mark may be deemed to have given it something of a secondary meaning. Since the testimony shows that opposer has sold goods having the two-color characteristics and has placed thereon its mark, it is believed the applicant's mark if placed upon this same kind of goods would cause confusion in the minds of purchasers. The goods being the same, the first part of the mark "Ivor" would be impressed upon the mind of the average purchaser to such an extent that he would be likely, having in mind the particular kind of goods he desired to purchase, to select the applicant's goods for those of the opposer. It is believed any doubts in connection with probable confusion should be resolved against the newcomer.

The decision of the Examiner of Trade-Marks is affirmed.

U. S. Circuit Court of Appeals—Third Circuit.

PIANO MOTORS CORPORATION ET AL. *v.* MOTOR PLAYER CORPORATION.

Decided August 1, 1922.

[282 Fed. Rep., 435.]

1. PATENTS—NO QUESTION OF VALIDITY INVOLVED IN INFRINGEMENT SUIT BETWEEN ASSIGNOR AND ASSIGNEE.

In a patent infringement suit between assignor and assignee no question of validity of the patent is involved.

2. SAME—ASSIGNOR, SUED FOR INFRINGEMENT, CAN LITIGATE SCOPE.

While the assignor of a patent, sued for its infringement by the assignee, can not question its validity, he can litigate its scope and ask for a construction which relieves him from infringement.

3. SAME—NOT UNNECESSARILY CONSTRUED SO AS TO MAKE IT WORTHLESS AS BETWEEN ASSIGNOR AND ASSIGNEE.

As between assignor and assignee of a patent, courts will not unnecessarily construe it so narrowly as to make it worthless.

4. SAME—EVIDENCE ATTACKING VALIDITY CAN NOT BE INTRODUCED BY ASSIGNOR FOR OSTENSIBLE PURPOSE OF NARROWING SCOPE.

An inventor who has assigned the patent can not introduce evidence for the ostensible purpose of so narrowing its scope as to avoid infringement, but which in fact attacks its validity for want of novelty.

5. SAME—WHEN PRIOR ART NOT SHOWN, CLAIMS MERELY CONSTRUED ON THEIR FACE.

In suit for infringement of patent between assignor and assignee, where the prior art was not shown, the court will not attempt to determine the place therein occupied by the invention in suit, but will merely construe its claims on their face.

6. SAME—1,320,224, FOR SUCTION-PRODUCING APPARATUS FOR PLAYER PIANOS, HELD INFRINGED.

The Garman patent, No. 1,320,224, for a motor-driven suction-producing apparatus for a player piano, *Held* infringed by device in which the positions of motor and fan were merely transposed, though it was claimed this resulted in more effectually cooling the motor.

7. SAME—MERE REVERSAL OF MECHANISM DOES NOT EFFECT DEPARTURE FROM INVENTION.

Mere reversal of mechanism, creating no new function and no change in the essential mode of operation, does not effect a departure from the invention.

8. SAME—ASSIGNOR OF PATENT HELD PERSONALLY RESPONSIBLE FOR INFRINGEMENT BY CORPORATION WITH WHICH HE WAS CONNECTED.

An inventor and assignor of a patent who was one of the three incorporators, the vice president, a director, and the owner of one-third of the stock of a corporation which since its foundation had engaged exclusively in manufacturing and selling infringing devices was personally responsible for the infringement.

APPEAL from the District Court of the United States for the District of New Jersey; Charles F. Lynch, judge.

Suit by the Motor Player Corporation against the Piano Motors Corporation and another. From a decree for plaintiff, defendants appeal. Affirmed.

Mr. L. F. H. Betts, Mr. John W. Peters, Mr. Edward W. Vaill, and *Mr. Elmer G. Van Name* for the appellants.

Mr. Charles Neave, Mr. Joseph P. Tumulty, Mr. J. Bonsall Taylor, Mr. Justin W. Macklin, and *Mr. E. Hayward Fairbanks* for the appellee.

Before BUFFINGTON, WOOLLEY, and DAVIS, Circuit Judges.

WOOLLEY, *Cir. J.:*

This action was brought by the Motor Player Corporation against Piano Motors Corporation and George W. Garman for infringement of Letters Patent No. 1,320,224. The patent was acquired by the Motor Player Corporation through mesne assignments from Garman, the patentee and codefendant.

The invention of the patent is a motor-driven suction-producing apparatus for a player piano, adapted to take the place of somewhat similar foot-operated devices commonly used in such instruments. Its purpose is to create a vacuum necessary to actuate the various hammers, expression devices and automatics of the piano mechanism. It is a self-contained unit in which a motor-driven fan of several blades is operated. It contains two chambers, one above the other. In the upper chamber the suction-producing fan is positioned and in the lower chamber the motor, or power plant, is seated.

In order that an electric motor and fan of the size permitted may produce the requisite suction, it is necessary that they operate at a very high speed. The speed of the fan is from 8,000 to 12,000 revolutions per minute. Normally the noise of a motor and fan running at such speed precludes their use in musical instruments. Garman's problem, therefore, was to preserve the high speed of the motor and fan and eliminate their noise. Noise of this kind comes from two sources—metallic vibrations and pneumatic pulsations. Garman got rid of metallic vibrations by making the device in two shells—a container within which is a casing, the latter housing the mechanism, the walls of the two being spaced apart and kept from contact by muffling or cushioning materials. He dispelled pneumatic pulsations by causing the air to travel through muffled channels before coming out into the open. The result is the elimination of noise to such a degree that it does not disturb the pitch of musical notes.

The trade-name given the device is "Electora."

The defendants manufactured and sold a suction-producing apparatus which the plaintiff contended, and the trial court found, is a mere reversal of the parts of the Garman device, the motor being moved from the lower to the upper chamber and the fan from the upper to the lower chamber, with the container and casing similarly spaced and cushioned.

The defendants gave their device the trade name of "Motora."

As the controversy is between the assignee and assignor of the patent, the court gave the patent a construction which brought the defendants' device within its claims, and, finding infringement, entered an interlocutory decree for an injunction and an accounting. The defendants appealed.

[1–4] In reviewing this case it may first be noted that because of the relation of the parties as assignee and assignor there is involved no question of validity of the patent. It may next be noted that while the assignor of a patent can not question its validity he can litigate its scope and ask for a construction which relieves him from infringement. (*Smith* v. *Ridgely*, 103 Fed., 875, 876; 43 C. C. A., 365.) In doing this there inevitably arises a question of the breadth of the claims, and a question of the principle by which courts will be controlled in determining the same. The defendants admit that—

> as between assignor and assignee of a patent the courts will give a liberal rather than a narrow construction to the patent assigned.

Keeping in mind the transaction of assignment, courts will not, unnecessarily, construe the patent so narrowly as to make it worthless (*Leader Plow Co.* v. *Bridgewater Plow Co.*, 237 Fed., 376; 150 C. C. A., 390); nor will they permit an inventor, who has assigned the patent for his invention, to introduce evidence for the ostensible purpose of so narrowing its scope as to avoid infringement, but which in fact attacks its validity for want of novelty. (*Alvin Mfg. Co.* v. *Scharling*, C. C., 100 Fed., 87.)

While these general principles are applicable here, they are not the only guide to a proper construction, because there is in this case an unusual circumstance which bears directly on the scope of the claims. The circumstance is this:

In 1918 Willard A. Warren and George W. Garman (the latter the patentee of the patent in suit) made and put on the market under the trade-name of "Rotora" a small number of suction-producing devices similar in most mechanical features to the device of the patent and differing mainly in the arrangement of sound-deadening means. Later in that year they filed a joint application for a patent. Consideration of the application was suspended by the Patent Office pending a correction in the oath. On March 29, 1919—the joint application still pending—Garman as sole inventor signed the application for the patent in suit. On the same day he assigned it to a predecessor of the plaintiff in the title. Later, the assignee filed the application.

The application, as filed, stated that the invention was an improvement upon the invention covered by the joint application of Warren and Garman then pending, the specification disclosing an apparatus in considerable detail and the claims limiting the invention to "suction producing apparatus of the class recited."

At this juncture Warren disappeared, the defect in the oath was never cured, and the joint application of Warren and Garman was abandoned. The attorneys for the assignee of the Garman application were then granted leave to strike out certain clauses of the application. These were the clauses which limited the invention to an improvement upon the Warren and Garman apparatus. With the application for a patent for the Warren and Garman joint invention abandoned and out of the way, and the application for the patent in suit amended by striking out all reference to the invention of the Warren and Garman joint application, the plaintiff maintains there is no art prior to the patent in suit and accordingly claims for the patent the broadest scope possible. The defendants maintain that the patent covers only what was embraced in the application before it was amended and ask for a construction so narrow as to leave little, if any, invention in the patented device.

[5] As the validity of the patent could not, in this case, come in issue, the prior art (with the possible exception of the Warren and Garman device) was not given in evidence. Therefore, on this inadequate record it is impossible to tell just what place in the art the invention of the patent occupies. It is probable that somewhere between the extremes claimed by the parties is the patent's true place. We shall not, in the dearth of evidence on the art, try to find it. We shall do nothing more than construe the claims of the patent on their face, having regard to the relation of the parties as assignee and assignor, and endeavoring to preserve to the assignee all that was assigned to him, and nothing more. As to what evidence in a case between other parties might show, we do not commit ourselves. We simply hold that on the evidence before us the patent is for a detail construction of a known class of suction-producing devices, having, as every invention has, some range of equivalents. This construction is sufficient to meet the issue of infringement raised in this case. The question, therefore, is whether the claims in their details read on the defendants' device.

[6, 7] In making their device the defendants reversed the parts of the device of the patent; in other words, they simply turned the structure upside down. Detail by detail, element by element, function by function of the apparatus of the patent can be traced in the apparatus of the defendants, even by one unskilled in the art. The reproduction in reverse order was made with singular fidelity to the disclosures of the patent. If this were all, the case would end here, for mere reversal of mechanism, creating no new function and no change in the essential mode of operation, does not effect a departure from the invention. Though differing in appearance, it is still the same thing. (*Société Anonyme Usine J. Clérct* v. *Rehfuss*, C. C., 75 Fed., 657, 659; 76 O. G., 336.) But in the transposition of parts the motor was moved from the lower chamber of the patented device to the upper chamber of the defendants' device. In this change of position of the power plant, the defendants, as we understand them, do not urge a real difference in the functioning of the mechanism, for, obviously, the motor functions above just as it functions below and the fan functions below just as it functions above, but in thus adopting this substantial element of the invention and placing it in a different position there to perform the same function, the defendants confidently claim an advantage over the arrangement of the patent sufficient to take their device out of the claims of the patent. This advantage is that cool air coming into the upper chamber directly upon the heat generating motor tends to prevent overheating of the device, whereas in the device of the patent the air coming into the upper chamber is more or less heated by the baffle of the fan before it descends upon the motor in the lower chamber and therefore does not cool it as effectually. To sustain this position the defendants introduced evidence that, according to tests, the temperature is higher in the lower chamber of each device and that it is 38 degrees less in the defendants' device than in the device of the patent. Conceding this difference in temperature to be due to the difference in position of the motor in the two apparatus, though this evidence of temperature is controverted by the plaintiff, there is no evidence that in the use of such devices there is a problem of overheating. Nor is there evidence that the device of the patent overheats, or that otherwise the motor arrangement in the defendants' device overcomes a defect in the device of the patent.

Having appropriated the substance of the invention of the patent and having employed it without changing its function or essential mode of operation, we are of opinion that the Piano Motors Corporation, in manufacturing and selling its apparatus, has infringed claims 1, 4 and 5 of the patent.

[8] As to infringement by Garman, the personal defendant, it appears that Garman, the inventor and assignor of the patent in suit, was one of three incorporators, the vice president, a director and the owner of one-third of the stock of the defendant corporation—a corporation which has since its foundation engaged exclusively in the business of manufacturing and selling the infringing devices. On authority of *Lamb Knit Goods Co.* v. *Lamb Glove & Mitten Co.* (120 Fed., 267; 56 C. C. A., 547) we hold Garman responsible with the corporation for infringement.

The decree below is affirmed.

ADJUDICATED PATENTS.

(C. C. A. Ill.) Stuebing patent, No. 1,160,666, for an improvement in trucks, claims 3–6 and 9, *Held* not infringed. *Stuebing Truck Co.* v. *Olson*, 291 Fed. Rep., 63.

(D. C. Me.) McMillin patent, No. 1,173,290, for cloth board, *Held* void for lack of invention. *E. A. McMillan Co.* v. *Androscoggin Pulp Co.*, 291 Fed. Rep., 184.

(D. C. N. J.) Goldschmidt patent, No. 578,868, for process of purifying or reducing metals, *Held* valid and infringed. *Goldschmidt Thermit Co.* v. *American Vanadium Co.*, 291 Fed. Rep., 81.

(D. C. N. J.) Young & Rollands patent, No. 993,631, for method of removing core from hollow steel drill rods, *Held* valid and infringed. *Crucible Steel Co. of America* v. *Heller Bros. Co.*, 291 Fed. Rep., 175.

(D. C. Ohio.) Smith patent, No. 1,262,860, for method and apparatus for hatching eggs, and Smith patent, No. 1,263,138, for rack and egg trays for incubator, each *Held* valid and infringed. *Buckeye Incubator Co.* v. *Wolf*, 291 Fed. Rep., 253.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

841,844, J. Bernet, Key-operated locking switch, suit filed Sept. 17, 1923, D. C., E. D. Wis., Doc. C. D. 1353, *W. R. Cox* v. *Clum Mfg. Co. et al.*

958,478, W. E. Davey, Process of reenforcing trees, suit filed Sept. 20, 1923, D. C., S. D. Iowa, Doc. E 4238, *The Davey Tree Expert Co.* v. *R. E. Parish.*

1,035,678, Belcher & Wilson, Paper-making machine and method of drying paper, suit filed Sept. 25, 1923, D. C., E. D. Mich., Doc. 610, *E. A. Briner et al* v. *Michigan Carton Co.*

1,113,149, E. H. Armstrong, Wireless receiving systems, consent decree for plaintiff adjudging infringement and granting injunction restraining defendant, filed Sept. 27, 1923, D. C., S. D. N. Y., *Westinghouse Electric & Mfg. Co.* v. *Army & Navy Trading Co. et al.*

1,141,470. (See Re. 13,617.)

1,391,611, 1,391,612, 1,393,079, 1,401,460, 1,423,646, F. L. Butler, Electric fixture, suit filed July 25, 1923, D. C., N. D. Ill., Doc. 3686, *F. L. Butler* (*Butler Electric Co.*) *Electrical Dealers Supply House, Inc.*

1,391,612. (See 1,391,611.)
1,393,079. (See 1,391,611.)
1,401,460. (See 1,391,611.)
1,402,168. (See Re. 13,617.)
1,411,217. (See Re. 13,617.)

1,411,391, J. D. Tucker, Spoke tightener, suit filed Sept. 21, 1923, D. C., S. D. Wash., Doc. E 167, *Tucker Bros. Mfg. Co.* v. *D. M. Scott et al.*

1,421,942, Des. 57,653, G. A. Holsberg, Windshield sunshade, suit filed Aug. 17, 1923, D. C., N. D. Ill., Doc. 3721, *Grigsby-Grunow-Hinds Co.* v. *Aurora Automotive Products Co.*

1,423,646. (See 1,391,611.)

1,431,450, Gorman, Frankel & Wohlgezon, Coupling for electric-light fixtures, suit filed Sept. 7, 1923, D. C., E. D. Wis., Doc. C. D. 1351, *Electrical Dealers Supply House* v. *Polly Lane, Inc.*

Re. 13,617, P. A. Koehring, Concrete distributors; 1,141,470, 1,411,217, E. H. Lichtenberg, same; 1,402,168, same, Lifting cranes for concrete mixers, final decree for plaintiff by consent Sept. 22, 1923, D. C., E. D. Wis., *Koehring Co.* v. *The T. L. Smith Co.*

Des. 57,653. (See 1,421,942.)

Des. 61,189, E. A. Davis, Lace, suit filed Mar. 15, 1923, D. C., S. D. N. Y., Doc. E 26/181, *Blanck & Co., Inc.*, v. *P. Mark.* Consent decree in favor of plaintiff, restraining defendant, adjudging infringement, and granting injunction, filed Sept. 15, 1923.

T. M. 146,974, T. M. 146,977, T. M. 146,978, T. M. 146,981, T. M. 147,206, F. J. de S. Coty, Perfumes, toilet waters, face powders, sachet powders, etc., motion of Coty & Co., petitioner, and order of court discontinuing suit at petitioner's costs, Sept. 28, 1923, D. C., E. D. La., *Coty, Inc.*, v. *D. H. Holmes Co., Ltd.*

T. M. 146,977. (See T. M. 146,974.)
T. M. 146,978. (See T. M. 146,974.)
T. M. 146,981. (See T. M. 146,974.)
T. M. 147,206. (See T. M. 146,974.)

Disclaimer.

1,215,079.—*George B. Thomas*, Bridgeport, Conn. CANDELABRUM SOCKET. Patent dated February 6, 1917. Disclaimer filed October 2, 1923, by the assignee, *The Bryant Electric Company.*

Hereby enters this disclaimer—

"To that part of the claims in said specification which are numbered 1 and 2, and which are in the following words, to wit:

"1. A candle socket, comprising an insulating body, lamp terminals mounted at one end thereof, means mounted at the opposite end thereof for securing the socket to a wire conduit, wire terminals electrically connected to the lamp terminals and having binding screws arranged at substantially right angles to the longitudinal axis of the socket, an insulating casing carried by one of the lamp terminals and surrounding both the lamp terminals and the wire terminals.

"2. A candle socket, comprising an insulating body, screw shell and center contact lamp terminals mounted at one end thereof, means mounted at the opposite end thereof for securing the socket to a wire conduit, wire terminals electrically connected to the lamp terminals and having binding screws arranged at substantially right angles to the longitudinal axis of the socket, an insulating casing having a threaded area screwed upon the screw shell lamp contact and surrounding both the lamp terminals and the wire terminals."

TRADE-MARKS

OFFICIAL GAZETTE, OCTOBER 30, 1923.

[VOL. 315. No. 5.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days o this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 102,565. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LUMMIS & Co., Camden, N. J., and Philadelphia, Pa. Filed Mar. 29, 1917.

CLIMAX

Particular description of goods.—Peanuts in Their Natural State.

Claims use since Mar. 1, 1889.

Ser. No. 102,566. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LUMMIS & Co., Camden, N. J., and Philadelphia, Pa. Filed Mar. 29, 1917.

KEYSTONE L. & Co.

Particular description of goods.—Peanuts in Their Natural State.

Claims use since Mar. 1, 1889.

Ser. No. 150,928. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PEERLESS FINISHING CO. INC., Los Angeles, Calif. Filed July 25, 1921.

PEERLESS FINISHING CO. PF TRADE MARK

No claim is made to the words "Trade Mark" appearing on the drawing.

Particular description of goods.—A Transparent Gum Filler Used for Filling Checks in Any Varnished Surface.

Claims use since Jan. 1, 1921.

Ser. No. 151,613. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COUDURIER, FRUCTUS & DESCHER, Lyon, France. Filed Aug. 10, 1921.

CÉLESTE

Particular description of goods.—Fabrics of Silk.

Claims use since Mar. 5, 1921.

Ser. No. 152,249. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GORHAM MANUFACTURING COMPANY, Providence, R. I. Filed Aug. 27, 1921. Under section 9 of the act of Mar. 19, 1920.

GORHAM

Trade-mark consists of the word "Gorham."

Particular description of goods.—Carving Knives, Table Knives, Fruit Knives, Forks, and Spoons of Base Metal; Scissors and Poultry Shears and Sharpening Steels.

Claims use since 1906.

Ser. No. 152,881. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) P. BALLANTINE & SONS, Newark, N. J. Filed Sept. 13, 1921.

FEDERAL

Particular description of goods.—Malt Sirup, Hop Flavored, for Beverage Purposes.
Claims use since Aug. 30, 1921.

Ser. No. 154,774. (CLASS 39. CLOTHING.) ULLMAN-JESSEL, INC., New York, N. Y. Filed Oct. 29, 1921.

Chapleigh Dresses

The word "Dresses" appearing on the drawing is disclaimed from the mark shown on the drawing.
Particular description of goods.—Ladies' and Misses' Dresses.
Claims use since Sept. 20, 1921.

Ser. No. 158,084. (CLASS 15. OILS AND GREASES.) A. W. HARRIS OIL COMPANY, Providence, R. I. Filed Jan. 18, 1922.

CHAMPION

Particular description of goods.—Lubricating Oils and Greases.
Claims use since about Jan. 1, 1903.

Ser. No. 158,764. (CLASS 7. CORDAGE.) THE EDWIN H. FITLER CO., Philadelphia, Pa. Filed Feb. 2, 1922. Under ten-year proviso.

Fitler

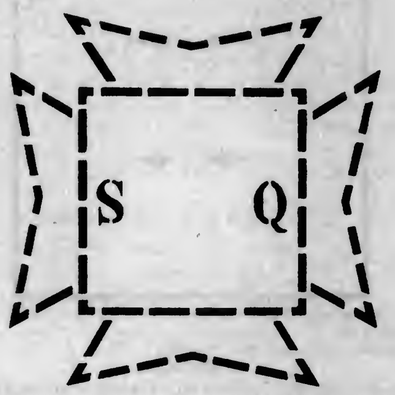
Particular description of goods.—Manila Rope, Sisal Rope, Ratline, Marline, Hambroline, Houseline, Seizing.
Claims use since 1892.

Ser. No. 158,859. (CLASS 7. CORDAGE.) THE EDWIN H. FITLER CO., Philadelphia, Pa. Filed Feb. 4, 1922. Under ten-year proviso.

Fitler

Particular description of goods.—Manila Rope, Sisal Rope, Ratline, Marline, Hambroline, Houseline, Seizing, Binder Twine, and Harvesting Twine.
Claims use since 1892.

Ser. No. 160,021. (CLASS 13. HARDWARE, AND PLUMBING AND STEAM-FITTING SUPPLIES.) NORTH DAKOTA METAL CULVERT CO., Fargo, N. Dak. Filed Mar. 1, 1922.



Particular description of goods.—Metal Culverts and Well Curbing.
Claims use since 1917.

Ser. No. 161,446. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OEST FRUIT CO., San Francisco, Calif. Filed Mar. 29, 1922.



Particular description of goods.—Mincemeat.
Claims use since Aug. 1, 1918.

Ser. No. 161,448. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OEST FRUIT CO., San Francisco, Calif. Filed Mar. 29, 1922.

HOLLY

Particular description of goods.—Mincemeat.
Claims use since Aug. 1, 1918.

Ser. No. 161,698. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) NATIONAL STAMPING & ELECTRIC WORKS, Chicago, Ill. Filed Apr. 3, 1922.

WHITE CROSS

Particular description of goods.—Electric Vibratory Outfits, Electric Heating Pads, and Electrical Therapeutic Batteries.
Claims use since 1913.

Ser. No. 162,350½. (CLASS 38. PRINTS AND PUBLICATIONS.) MODERN CONFECTIONER PUBLISHING COMPANY, Chicago, Ill. Filed Apr. 15, 1922.

The Candy Jobber

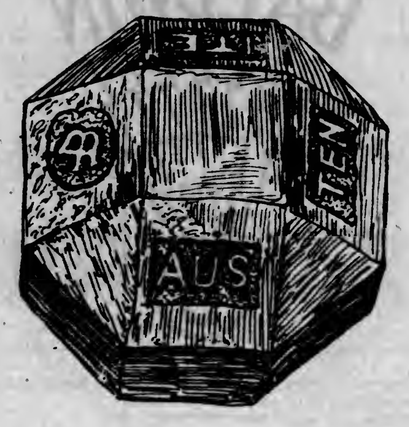
Particular description of goods.—Monthly Trade Magazine Circulated Generally Throughout the United States—i. e., "The Candy Jobber."
Claims use since Feb. 15, 1921.

Ser. No. 163,001. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PACIFIC MALT & HOPS CO. INC., Brooklyn, New York. Filed Apr. 27, 1922.

SUN-RAY
BRAND
MALT

Disclaimer is made to exclusive use of the words "Brand" and "Malt" apart from the mark shown on the drawing.
Particular description of goods.—Pure Malt Extract, a Sirup for Food Purposes and Sold for Home Use.
Claims use since Jan. 1, 1918.

Ser. No. 164,221. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BONNEY-FLOYD CO., Marion Road, Columbus, Ohio. Filed May 22, 1922.



No claim is made to the representation of the grinding ball apart from the mark as shown.
Particular description of goods.—Grinding Balls.
Claims use since Apr. 28, 1922.

Ser. No. 165,193. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ISAAC F. HARRIS, doing business as Harris Laboratories, Tuckahoe, N. Y. Filed June 8, 1922.

TESTED
H L
STANDARDS

No claim is made to the words "Tested Standards" apart from the mark as shown on the drawing.
Particular description of goods.—Pharmaceutical and Biological Products—Namely, Yeast Vitamine Tablets for General Tonic Purposes, Yeast Vitamine Powder for Scientific Tests in Nutrition, and for Therapeutic Use on Prescription; Vitamine-Free Casein, Vitamine-Free Starch, Vitamine-Free Fats, Complete Inorganic Mixtures, Complete Food Mixtures Free from Any Vitamine, All for Therapeutic Uses; and Cod-Liver Oil.
Claims use since Apr. 15, 1922.

Ser. No. 166,344. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BALDWIN RADIO ELECTRICAL MANUFACTURING CO., INC., Brooklyn, N. Y. Filed July 1, 1922.

BALDWIN

B

Particular description of goods.—Radio Receiving and Transmitting Sets and Parts Thereof.
Claims use since MAR. 28, 1922.

Ser. No. 167,318. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) OPTISCHE ANSTALT C. P. GOERZ AKTIENGESELLSCHAFT, Berlin-Friedenau, Germany. Filed July 24, 1922.

C.P.
GOERZ
BERLIN

The words "Berlin" and "C. P. Goerz" are disclaimed apart from the mark shown in the drawing, no common-law rights in the name "Goerz" being hereby disclaimed.
Particular description of goods.—Photographic Hand Cameras and Stand Cameras, Enlarging Apparatus, Projecting Lanterns, Cinematographs, Apparatus for Three-Color Photography, Photographic Objectives, Objective Holders, Camera Fittings for Telephotography, Photographic Shutters, Exposure Timers, Apparatus for Measuring Shutter Speed, Photometers, Photographic Range Finders, Single Slides, Double Slides, Change Slides, Film Boxes, Magazines, and Backs, Daylight Change Boxes, Plate Magazines, Wooden and Metal Stands for Photographic Cameras, Devices for Focusing Photographic Apparatus, Bellows for Photographic Cameras, Screens and Light Filters for Photographic Exposure, Sensitized Plates, Dry Plates, Flat Films and Roller Films, Three-Color Films, Sensitized Photographic Paper, Plate Holders, Film Holders, Photographic-Film Reels, Film Boxes for Photographic Cameras, Polarizers, Refractometers, Thermometers, Barometers, Hydrometers, Balances, Sound-Analyzing Devices, Photographic Developing Apparatus, Photographic Fixing Apparatus, Photographic Washing Apparatus, Photographic Drying Apparatus, and Photographic Retouching Apparatus, Photographic Copying Apparatus, Exposing Devices and Developing Devices for Plates and Films, Photographic-Printing Devices, Lighting Devices and Apparatus for Printing Devices for Enlarging and Projecting Cameras and for Dark-Room Use, Collecting Boxes for Photographic Negatives and Positives, Photographers' Working Chests, Illuminating Lenses, Condensers, Collimators, Portable Dark Rooms, Prisms, Lenses, Magnifying Glasses, Levels, Telescopes, Opera Glasses, Field Glasses, Compasses, Telemeters, Theodolites, Sextants, Leveling Instruments, Spectroscopes, Microscopes, and Stereoscopes, Spectacle Glasses, Photographic Lenses, Telescopic Lenses, Projecting Lenses, Telescopic Gun Sights and Bomb-Dropping Sights, Sights for Rifles and Cannon, Eclimeters, Surveying Instruments, and Barographs, Thermographs, Altimeters, Speedometers, Optic Mirrors, Ordinary Aviators' and Other Goggles, Calipers, Micrometer Screws, and Vernier Gauges, Sliding Gauges, Gauges and Standards of All Kinds, Gauge Blocks, Screw-Thread Comparators, Setting-Out Tables and Rollers for Aviation Figures, and Clinometers.
Claims use since July 11, 1908.

Ser. No. 167,588. (CLASS 10. FERTILIZERS.) UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed July 29, 1922.

agri

Particular description of goods.—Land Plaster.
Claims use since October, 1920.

Ser. No. 167,803. (CLASS 39. CLOTHING.) CHAS. DOUGLIS-MACK CO. INC., New York, N. Y. Filed Aug. 4, 1922.

PICCADILLY CLOTHES
FOR YOUNG MEN

No claim is made to the exclusive use of the words "Clothes for Young Men" apart from the mark as shown in the drawing.
Particular description of goods.—Men's and Young Men's Clothes for Outer Wear—viz, Suits in One, Two, Three and Four Piece Garments, and Overcoats.
Claims use since July 31, 1922.

Ser. No. 169,302. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IMPERIAL CANDY COMPANY, Seattle, Wash. Filed Sept. 11, 1922.



Société

Particular description of goods.—Salted Peanuts.
Claims use since 1908.

Ser. No. 169,356. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT H. GERKE, doing business as The Bobs Drug Co., Marietta, Ohio. Filed Sept. 12, 1922.

CELERY-MIST

Particular description of goods.—Preparation for Treating Headache, Neuralgia, Cold Pains, Grippe Aches, Earache, Stomach Distress, and Rheumatic Pains.
Claims use since Dec. 22, 1915.

Ser. No. 170,304. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BILOXI PACKING & TRADING CO., Biloxi, Miss. Filed Oct. 6, 1922.

American Beauty

Particular description of goods.—Canned Oysters and Canned Shrimp.
Claims use since on or about Jan. 1, 1898.

Ser. No. 170,485. (CLASS 39. CLOTHING.) ISADORE A. HESSEL, St. Louis, Mo. Filed Oct. 9, 1922.

Hudsealin
LOOKS AND WEARS LIKE HUDSON SEAL

No claim is made to the words "Looks and Wears Like Hudson Seal" apart from the mark shown on the drawing.
Particular description of goods.—Fur Coats, Capes, Wraps, and Stoles.
Claims use since June 1, 1922.

Ser. No. 170,624. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE CORTICELLI SILK COMPANY, Florence, Northampton, Mass. Filed Oct. 12, 1922.

Castle Duvene

Particular description of goods.—Piece Goods of Silk, Artificial Silk, and Silk and Cotton.
Claims use since about June 10, 1922.

Ser. No. 170,717. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) GENERAL ASBESTOS & RUBBER COMPANY, Charleston, S. C. Filed Oct. 14, 1922.

RINGPAK

Particular description of goods.—Seal and Compensating Means for Piston Rings.
Claims use since Oct. 10, 1922.

Ser. No. 171,122. (CLASS 39. CLOTHING.) EMERY & BEERS COMPANY INC., New York, N. Y., assignor to Onyx Hosiery Inc., New York, N. Y., a Corporation of New York. Filed Oct. 24, 1922.

"Onyx"
DUB-L WEAR

Particular description of goods.—Hosiery.
Claims use since 1913.

Ser. No. 171,132. (CLASS 39. CLOTHING.) THE LEWIS & HARRIS HANDWOVEN TWEED COMPANY LIMITED, Stornaway, Island of Lewis, Scotland. Filed Oct. 24, 1922.

MACLOOM

Particular description of goods.—Outer Clothing—Namely, Suits, Coats, Trousers, Skirts, Cloaks, and Capes.
Claims use since July 20, 1920.

Ser. No. 171,211. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN V. FARWELL COMPANY, Chicago, Ill. Filed Oct. 26, 1922. Under ten-year proviso.

HOLLYWOOD

Particular description of goods.—Drapery and Upholstery Piece Goods Composed of Cotton, Silk, Wool, Jute, or Combinations Thereof, and Curtains, Portières, Curtain Strips and Panels, Table Covers, and Couch Covers.
Claims use since on or about Jan. 1, 1895.

Ser. No. 171,277. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MARKT & HAMMACHER COMPANY, doing business as American Manufacturing Company, New York, N. Y. Filed Oct. 27, 1922.

INDIAN HEAD



Particular description of goods.—Agricultural Implements—Namely, Manure and Spading Forks, Field and Garden Hoes, Weeding-Cultivator and Cotton Hoes, Harvesting Potato Hooks, Manure-Spreading Hooks, Stone-Dragging Hooks, Shovels, Garden Rakes, Lawn Rakes, Cultivators, Beet Forks and Hooks.
Claims use since Jan. 1, 1889.

Ser. No. 171,723. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE O. P. BAUR CONF. CO., Denver, Colo. Filed Nov. 8, 1922.



Particular description of goods.—Candy, Cakes, Shelled Nuts, and Sandwiches.
Claims use since 1906.

Ser. No. 171,782. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALMA E. ALLEN, doing business as The Allen Company, Cleveland, Ohio. Filed Nov. 10, 1922.



Particular description of goods.—Salves for the Hair and Scalp Treatment.
Claims use since January, 1918.

Ser. No. 172,145. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CHANDLER MOTOR CAR COMPANY, Cleveland, Ohio. Filed Nov. 17, 1922.

PIKES PEAK

Particular description of goods.—Internal-Combustion Engines.
Claims use since about Oct. 1, 1922.

Ser. No. 172,218. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMMA G. FULTON, Chicago, Ill. Filed Nov. 18, 1922.

FULTO



The portrait shown is that of applicant.
Particular description of goods.—Hair Grower.
Claims use since Jan. 1, 1918.

Ser. No. 172,275. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) IGELFORS BRUKS AKTIEBOLAG, Stockholm, Sweden. Filed Nov. 20, 1922.

BANCO

Particular description of goods.—Scythes and Sickles.
Claims use since Apr. 20, 1921.

Ser. No. 172,276. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) IGELFORS BRUKS AKTIEBOLAG, Stockholm, Sweden. Filed Nov. 20, 1922.

BANKO

Particular description of goods.—Scythes and Sickles.
Claims use since 1910.

Ser. No. 173,270½. (CLASS 39. CLOTHING.) H. B. FERGUSON CO. INC., New York, N. Y. Filed Dec. 13, 1922.



Particular description of goods.—Men's and Boys' Work Shirts.
Claims use since July, 1922.

Ser. No. 173,543. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) U. S. SANITARY SPECIALTIES CORPORATION, Chicago, Ill. Filed Dec. 18, 1922.

SOAPERIOR

Particular description of goods.—Soap.
Claims use since September, 1918.

Ser. No. 173,600. (CLASS 43. THREAD AND YARN.) THE H. K. H. SILK CO., Watertown, Conn. Filed Dec. 20, 1922.

LION

The mark consists of the word "Lion."
Particular description of goods.—Pure and Artificial Silk Threads.
Claims use since July 1, 1905.

Ser. No. 173,743. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ETABLISSEMENTS POULENC FRÈRES, Paris, France. Filed Dec. 23, 1922.

ACNYL

Particular description of goods.—Specific Vaccine for Subcutaneous Administration in the Treatment of Inflammatory Diseases of the Sebaceous Glands.
Claims use since Mar. 14, 1922.

Ser. No. 173,753. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ETABLISSEMENTS POULENC FRÈRES, Paris, France. Filed Dec. 23, 1922.

LUATOL

Particular description of goods.—Sodium Potassium, Bismutho Tartrate in Glucose-Aqueous Solution for Intramuscular Administration of the Treatment of Syphilis.
Claims use since Dec. 28, 1921.

Ser. No. 173,755. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ETABLISSEMENTS POULENC FRÈRES, Paris, France. Filed Dec. 23, 1922.

GARDENAL

Particular description of goods.—Chemical Preparation Used as a Hypnotic, Sedative, or Antiepileptic.
Claims use since Sept. 3, 1920.

Ser. No. 173,756. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ETABLISSEMENTS POULENC FRÈRES (SOCIÉTÉ ANONYME), Paris, France. Filed Dec. 23, 1922.

EPARSENO

Particular description of goods.—Chemical Compound for Intramuscular Administration of the Treatment of Syphilis.
Claims use since Sept. 6, 1921.

Ser. No. 174,790. (CLASS 32. FURNITURE AND UPHOLSTERY.) MORRIS LOEWY, doing business as New York Machinery Company, New York, N. Y. Filed Jan. 19, 1923.



The right to the exclusive use of the words "Steel Products" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Steel Equipment and Furniture, Comprising Adjustable Shelving, Filing Cabinets, Utility Cabinets, Storage Cabinets, Clothes Lockers, Golf Lockers, Club Lockers, Compartment Lockers, Partitions, Factory Stools, Steel Library and Shop Tables, Benches, and Bench Legs.
Claims use since Apr. 19, 1920, covering the word "Universal;" since Aug. 25, 1922, for the entire design.

Ser. No. 174,798. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAXTONIC BLOOD FOOD CO. INC., Birmingham, Ala. Filed Jan. 19, 1923.

PAX-TONIC

Particular description of goods.—Preparation for the Blood.
Claims use since May 12, 1922.

Ser. No. 175,035. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) STETTNER PHONOGRAPH CORPORATION, New York, N. Y. Filed Jan. 22, 1923.



No claim is made to the words "Supreme in Tone," "Mfg. by," and "New York" apart from the mark shown in the drawing.

Particular description of goods.—Phonographs.

Claims use since May 31, 1922.

Ser. No. 175,239. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WILLIAM F. FINDLEY, Los Angeles, Calif. Filed Jan. 29, 1923.



No claim made to the word "Line" apart from the mark shown.

Particular description of goods.—Combination Liquid-Soap Dispensers and Towel Racks.

Claims use since Jan. 4, 1923.

Ser. No. 175,369. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WALTER H. PHELPS, doing business as The Criterion Laboratories, Portsmouth, Ohio. Filed Jan. 31, 1923.



The words "Trade Mark" and the words "The Compilation of Superlative Qualities" being disclaimed apart from the mark as shown on the drawing.

Particular description of goods.—Cleaning and Polishing Materials for Furniture and for Painted, Varnished, and Lacquered Surfaces.

Claims use since on or about Mar. 14, 1922.

Ser. No. 175,703. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich. Filed Feb. 8, 1923.



Particular description of goods.—A Nut Cereal Food.

Claims use since Jan. 1, 1899.

Ser. No. 176,408. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERNATIONAL MILLING COMPANY, Minneapolis, Minn. Filed Feb. 21, 1923.



Particular description of goods.—Stock and Chicken Feed.

Claims use since Mar. 18, 1920.

Ser. No. 176,563. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN T. MILLIKEN & COMPANY, St. Louis, Mo. Filed Feb. 24, 1923.

OROSAN

Particular description of goods.—Germicide and Antiseptic Mouth Wash.

Claims use since Sept. 6, 1919.

Ser. No. 176,643. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) NEW YORK VITREOUS ENAMEL PRODUCTS CORPORATION, Dover, Del., and Flushing, N. Y. Filed Feb. 26, 1923.

LEMANE

Particular description of goods.—Enameled-Metal Covers for Washtubs.

Claims use since Jan. 29, 1923.

Ser. No. 176,671. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CROWN CHEMICAL COMPANY, now, by change of name, Boncilla Laboratories, Incorporated, Indianapolis, Ind. Filed Feb. 27, 1923.



Particular description of goods.—Facial Pack.

Claims use since January, 1922.

Ser. No. 176,761. (CLASS 39. CLOTHING.) THOMAS EDWARD RESNICK, Chicago, Ill. Filed Feb. 28, 1923.

ResKnit

Particular description of goods.—Neckwear, Mufflers (Men and Women), Sweaters (Men and Women), Bathing Suits (Men and Women), and Knitted Toques.

Claims use since Mar. 1, 1919.

Ser. No. 176,836. (CLASS 39. CLOTHING.) KELLOGG DRAKE & CO., Galesburg, Ill. Filed Mar. 2, 1923.

"Biltwell"

Particular description of goods.—Cloaks, Suits, Dresses, and Hosiery.

Claims use since Jan. 1, 1923.

Ser. No. 176,887. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE EASTERN SPECIALTY COMPANY, Philadelphia, Pa. Filed Mar. 3, 1923.

TESCO

Particular description of goods.—Artificial Load Transformers, Testing Switches, and Multiple Contactors Adapted for Central-Station Uses in Testing Watt-Hour Meters, Transformers, and the Like; Multiple Contactors Adapted for Use as Relays, Connecters Adapted for Connecting One Part of an Electrical Circuit to Another Part, Terminal Lugs, Terminal Clips; Radio Receiving Sets and Parts Thereof—Namely, Variocouplers, Variometers, Condensers, Rheostats, and Transformers.

Claims use since Sept. 17, 1915.

Ser. No. 176,942. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) GERTRUDE BARNETT, San Francisco, Calif. Filed Mar. 5, 1923.



Particular description of goods.—Porcelain Teapots.

Claims use since Jan. 1, 1923.

Ser. No. 177,176. (CLASS 17. TOBACCO PRODUCTS.) FIELD CIGAR CORPORATION, Detroit, Mich. Filed Mar. 9, 1923.



The color lining is for red and green.

Particular description of goods.—Cigars.

Claims use since Mar. 4, 1884, by predecessors; since Oct. 1, 1922, by corporation.

Ser. No. 177,793. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAX ZELLER SÖHNE, Romanshorn, Switzerland. Filed Mar. 21, 1923. Under ten-year proviso.



Particular description of goods.—Remedy Used Internally for Seasickness and Other Disorders and Diseases Originating in the Stomach; for the Treatment of Scurvy and Its Attendant Evils, Such as Loosening of the Teeth, Ulcerated Gums, Bad Breath, Thrush, and Bleeding; and Used Externally for Wounds, Fistula, Abscesses, Rashes, Inflamed Eyes, Earache, Bleeding from the Nose, and Toothache.
Claims use since 1863.

Ser. No. 177,794. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAX ZELLER SÖHNE, Romanshorn, Switzerland. Filed Mar. 21, 1923. Under ten-year proviso.



Particular description of goods.—Remedy Used Internally for Seasickness and Other Disorders and Diseases Originating in the Stomach; for the Treatment of Scurvy and Its Attendant Evils, Such as Loosening of the Teeth, Ulcerated Gums, Bad Breath, Thrush, and Bleeding; and Used Externally for Wounds, Fistula, Abscesses, Rashes, Inflamed Eyes, Earache, Bleeding from the Nose, and Toothache.
Claims use since 1863.

Ser. No. 177,897. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE COLUMBUS COMPANY, Columbus, Ohio. Filed Mar. 23, 1923.

LEE DAY-NIGHT

The trade-mark consists of the words "Lee Day-Night," the word "Lee" being a surname.
Particular description of goods.—Gauges, and Particularly Gauges for Gasoline Tanks.
Claims use since Sept. 1, 1921.

Ser. No. 178,099. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE GRISCOM-RUSSELL COMPANY, New York, N. Y. Filed Mar. 27, 1923. Under ten-year proviso.

REILLY

Particular description of goods.—Water Heaters, Fuel-Oil Heaters, and Evaporator Water Heaters.
Claims use since about 1891.

Ser. No. 178,154. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE WELSBACH CO. OF N. E., Boston, Mass. Filed Mar. 27, 1923.

STAZHOT

Particular description of goods.—Gas Hot-Water Storage Heaters.
Claims use since Sept. 1, 1922.

Ser. No. 178,528. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MARSHALL-WELLS COMPANY, Duluth, Minn. Filed Apr. 3, 1923.

Zenith

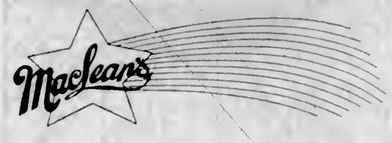
Particular description of goods.—Nail Hammers, Tack Hammers, Engineers' or Plow Hammers, Machinists' Hammers, Prospecting Picks, Tinners' and Machinists' Riveting Hammers; Farriers', Shoemakers', and Brick Hammers; Bricklayers' Scutches; Hatchets, Including Broad, Half, Shingling, Lathing, Box, and All Fancy Hatchets; Axes, Single and Double Bit, Boys', Cruisers', and Hunters'; Broadaxes, Adzes, Handles of All Kinds; Saws, Crosscut, One-Man, Hand, Panel, and Rip; Miter-Box Saws, Keyhole and Compass Saws, Saws in Sets, Miter Boxes, Butcher Saws, Coping Saws, Bucksaws, Hack Saws, Hack-Saw Blades, Saw Sets, Saw Vises, Planes, Floor Scrapers and Floor Planes; Spokeshaves, Drawknives, Peeling Knives; Carpenters' Chisels, Carpenters' Slicks; Plastering and Brick Trowels, Toilet Clippers, Shears and Scissors, Tinners' Snips, Butcher Knives, Household Knives, Paring Knives, Putty Knives, Carvers, Game Shears, Chain Drills, Screw Drivers, Bit Braces, Extension Bit Holders, Auger Bits, Ship Auger and Car Bits, Expansive Auger Bits, Screw-Driver Bits, Reamer Bits and Countersinks, Awls and Tools in Sets, Cold Chisels, Punches, and Nail Sets; Pliers, Whether Combination or Side Cutting; Wire-Cutting Nippers and Fence Pliers, Belt Punches, Ticket Punches, Files, Shovels, Tiling Spades, Scoops, Telegraph Spoons and Shovels, Railroad Picks, Clay Picks, Grub Hoes and Mattocks, Hayforks of All Kinds, Garden Hoes and Rakes, Hand Cultivators, Scythes and Snaths, Lawn Mowers, Grass Shears, Grass Hooks, Hunting Knives, Razors, Striking and Drilling Hammers, Stone Hammers and Stone Sledges, Blacksmith Sledges, Ship Mauls, Spike Mauls, Wood-Choppers' Mauls, Railroad Track Chisels, Carpenters' Ripping Bars, Automatic Screw Drivers, Automatic Drills, Hand Drills, Breast Drills, Twist Drills, Reamers, and Wrenches, Mounted Grindstones, and Mounted Hand, Foot, and Power Grinders.
Claims use since about Mar. 1, 1923.

Ser. No. 178,679. (CLASS 2. RECEPTACLES.) IMMANUEL G. SPEIDEL, doing business as The Sterobrus Co., Buffalo, N. Y. Filed Apr. 6, 1923.

STEROBRUS

Particular description of goods.—Toothbrush Holder.
Claims use since Feb. 15, 1923.

Ser. No. 178,757. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MACLEAN DRUG COMPANY, Chicago, Ill. Filed Apr. 7, 1923.



Particular description of goods.—Mops, Brooms, Dusters, Scrubbing Brushes, Paintbrushes, Calcimine Brushes.
Claims use since November, 1918.

Ser. No. 178,851. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE KERR CHICKERIES INCORPORATED, Frenchtown, N. J. Filed Apr. 9, 1923.



No claim is made to the word "Eggs" and "Straight from the Nest to You" apart from the mark as shown.
Particular description of goods.—Eggs.
Claims use since about Apr. 1, 1922.

Ser. No. 179,066. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) STORY & CLARK PIANO CO., Chicago, Ill. Filed Apr. 12, 1923.



Exclusive right to the use of the words "Three Way Player" except as a part of the mark shown in the drawing is disclaimed.
Particular description of goods.—Pianos.
Claims use since Feb. 15, 1923.

Ser. No. 179,259. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN A. CAMINATI, doing business as J. A. C. Cheese Manufacturing Co., Chicago, Ill. Filed Apr. 17, 1923.

J.A.C.

Particular description of goods.—Cheese, French Dressing, Mayonnaise Dressing, and Thousand Island Dressing.
Claims use since Mar. 28, 1923.

Ser. No. 179,310. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES H. MURRAY, Brooklyn, N. Y. Filed Apr. 18, 1923.

STIRIT

Particular description of goods.—Custards, Cakes, Egg Substitutes, Wheat Flour, Rye Flour, Prepared Self-Rising Flour, Fruit and Pastry Puddings, Mincemeats, Gelatins, and Candies.
Claims use since Apr. 14, 1923.

Ser. No. 179,348. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PABLO BACA, doing business as La Victoria Packing Co., Los Angeles, Calif. Filed Apr. 19, 1923.

MOLE POBLANO

Particular description of goods.—A Mixture of Dried Chili, Spices, and Cereals—Namely, Canned Chili.
Claims use since June 1, 1922.

Ser. No. 179,453. (CLASS 37. PAPER AND STATIONERY.) BENNINGTON WAX PAPER COMPANY, Bennington, Vt. Filed Apr. 21, 1923.

BEN-MONT

Particular description of goods.—Wax Paper, Wax Lunch Rolls, Dry and Waxed Shredded Paper, Christmas Wrapping Paper, and Shelf Paper.
Claims use since on or about Mar. 5, 1923.

Ser. No. 179,553. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ISAAC S. PURCELL, doing business as Dri-Kamp Company, Chicago, Ill. Filed Apr. 23, 1923.

DRI-KAMP

Particular description of goods.—Tents.
Claims use since Mar. 22, 1923.

Ser. No. 179,565. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) VICTORY MANUFACTURING CO., Niles, Calif. Filed Apr. 23, 1923.

VICTORY

Particular description of goods.—Metal Pipe Fittings, Stopcocks, and Double Packed Stopcocks.
Claims use since February, 1921.

Ser. No. 179,584. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARDINET CANDY COMPANY, Oakland, Calif. Filed Apr. 24, 1923.



Particular description of goods.—Candy.
Claims use since Mar. 12, 1923.

Ser. No. 179,781. (CLASS 39. CLOTHING.) MAX KASSLER, doing business as City Naval Equipment Co., Brooklyn, N. Y. Filed Apr. 26, 1923.

PROVITOR

Particular description of goods.—Chest-Protecting Garments Used as Clothing and Body-Protecting Garments Used as Clothing.
Claims use since Jan. 1, 1917.

Ser. No. 179,787. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FREIHOFER BAKING COMPANY, Philadelphia, Pa. Filed Apr. 27, 1923.

EASTER EGG CAKE

No claim is made to exclusive use of the words "Egg Cake" apart from the mark shown on the drawing.
Particular description of goods.—Cake.
Claims use since Mar. 28, 1923.

Ser. No. 179,788. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FREIHOFER BAKING COMPANY, Philadelphia, Pa. Filed Apr. 27, 1923.

SNOW-CAP

Particular description of goods.—Cake.
Claims use since Mar. 27, 1923.

Ser. No. 179,804. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HERBERT B. LEDERER CORP., New York, N. Y. Filed Apr. 27, 1923.

Pride of Britain

Particular description of goods.—Gingham Piece Goods.
Claims use since Oct. 4, 1921.

Ser. No. 179,978. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) HARRIS E. WHITING, doing business as Whiting Leather & Belting Company, Long Island City, N. Y. Filed Apr. 30, 1923.

HARD-WEAR

Particular description of goods.—Leather Belting.
Claims use since March, 1922.

Ser. No. 180,004. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HODGSON AND COMPANY LIMITED, Sydney, New South Wales, Australia. Filed May 1, 1923.

BARGE

Particular description of goods.—Canned Salmon.
Claims use since Jan. 28, 1922.

Ser. No. 180,005. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HODGSON AND COMPANY LIMITED, Sydney, New South Wales, Australia. Filed May 1, 1923.

LADDIE

Particular description of goods.—Canned Salmon.
Claims use since Jan. 28, 1922.

Ser. No. 180,006. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HODGSON AND COMPANY LIMITED, Sydney, New South Wales, Australia. Filed May 1, 1923.

SEAWALL

Particular description of goods.—Canned Salmon.
Claims use since Jan. 28, 1922.

Ser. No. 180,007. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HODGSON AND COMPANY LIMITED, Sydney, New South Wales, Australia. Filed May 1, 1923.

WINSOME

Particular description of goods.—Canned Salmon.
Claims use since Jan. 28, 1922.

Ser. No. 180,085. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) F. SCHUTZE AND COMPANY LIMITED, London, England. Filed May 2, 1923.

EVERSAFE

Particular description of goods.—Infants' Soothers.
Claims use since June, 1898.

Ser. No. 180,227. (CLASS 2. RECEPTACLES.) THOMAS B. LAMB, New York, N. Y. Filed May 5, 1923.

KIDDYLAND

Particular description of goods.—Metal Containers Used for Candy, Lunch, Workboxes, Etc.
Claims use since Jan. 15, 1923.

Ser. No. 180,233. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Filed May 5, 1923.



The background of the said trade-mark is colored red, and the words, lines, and design appearing on this background are white.
Particular description of goods.—Biscuit.
Claims use since on or about Dec. 30, 1922.

Ser. No. 180,234. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Filed May 5, 1923.



Particular description of goods.—Biscuit.
Claims use since Dec. 30, 1922.

Ser. No. 180,240. (CLASS 27. HOROLOGICAL INSTRUMENTS.) MORRIS S. ROSENBERG, New York, N. Y. Filed May 5, 1923.



Particular description of goods.—Horological Instruments Consisting of Watch Movements, Watches, and Clocks.
Claims use since Mar. 20, 1923.

Ser. No. 180,301. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES O. SANDEFUR, doing business as Sandefur's Cereal Mill, Owensboro, Ky., assignor to Anglo-American Mill Company, Owensboro, Ky., a Corporation of Delaware. Filed May 7, 1923.

MARVEL

Particular description of goods.—Cereal Scratch and Chick Feed for Poultry and Cereal Feed for Hogs.
Claims use since Apr. 1, 1922.

Ser. No. 180,347. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM A. VOIGT, doing business as The Toledo Dental Supply Co., Toledo, Ohio. Filed May 8, 1923.

Diamond Deodorizer

No claim made to the word "Deodorizer" aside from the mark shown.
Particular description of goods.—Deodorizing Preparation.
Claims use since Mar. 1, 1923.

Ser. No. 180,462. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FREDERICK C. ATKINSON, doing business as Knighthood Flour and Cereal Co., Indianapolis, Ind. Filed May 11, 1923.

KNIGHTHOOD

Particular description of goods.—Wheat Flour.
Claims use since Mar. 28, 1923.

Ser. No. 180,522. (CLASS 38. PRINTS AND PUBLICATIONS.) CHICAGO AUTOMOBILE TRADE ASSOCIATION, Chicago, Ill. Filed May 12, 1923.

RED BOOK

Particular description of goods.—Periodical Publications Issued Approximately Quarterly.
Claims use since Apr. 19, 1923.

Ser. No. 180,523. (CLASS 38. PRINTS AND PUBLICATIONS. CHICAGO AUTOMOBILE TRADE ASSOCIATION, Chicago, Ill. Filed May 12, 1923.

NATIONAL USED CAR MARKET REPORT

Particular description of goods.—Periodical Publications Issued Approximately Quarterly.
Claims use since June 4, 1915.

Ser. No. 180,679. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ALUMINUM COMPANY OF AMERICA, Pittsburgh and New Kensington, Pa. Filed May 16, 1923.



Particular description of goods.—Aluminum and Aluminum-Base Alloys Having a Colored Finish.
Claims use since May 5, 1923.

Ser. No. 180,733. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ASMUS BROS., Detroit, Mich. Filed May 17, 1923.



The words "Whole Coffee" and "Brand" are disclaimed apart from the other features of the mark.
Particular description of goods.—Coffee.
Claims use since Apr. 23, 1923.

Ser. No. 180,861. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HALL BAKING CO., Buffalo, N. Y. Filed May 19, 1923.

Million Dollar Loaf

The word "Loaf" does not form a part of the trade-mark sought to be registered apart from the mark shown in the drawing.
Particular description of goods.—Bread.
Claims use since Jan. 3, 1923.

Ser. No. 180,958. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BREAKSTONE BROS., INC., New York, N. Y. Filed May 22, 1923.



No claim is made to the words "Downsville Brand" apart from the other features of the mark.
Particular description of goods.—Cream Cheese.
Claims use since about Jan. 15, 1923.

Ser. No. 180,960. (CLASS 39. CLOTHING.) THEO. S. BUERGER & SON, Buffalo, N. Y. Filed May 22, 1923.

OLD HOMESTEAD



Particular description of goods.—Hosiery and Knitted Underwear for Men, Women, and Children.
Claims use since Apr. 8, 1913.

Ser. No. 181,049. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ZELLWOOD FERN GROWERS ASSOCIATION, Zellwood, Fla. Filed May 23, 1923.

DEWKIST

Particular description of goods.—Ferns.
Claims use since Apr. 19, 1923.

Ser. No. 181,107. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. F. BLANKE CANDY COMPANY, Branch of C. F. Blanke Tea & Coffee Company, St. Louis, Mo. Filed May 25, 1923.

Hop-Chewee

Particular description of goods.—Candy.
Claims use since Mar. 15, 1923.

Ser. No. 181,108. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. F. BLANKE CANDY COMPANY, Branch of C. F. Blanke Tea & Coffee Company, St. Louis, Mo. Filed May 25, 1923.

"Sure Mike"

Particular description of goods.—Candy.
Claims use since May 1, 1923.

Ser No. 181,113. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ISADORE EHRLICH, doing business as Rockaway Pharmacal Co., New York, N. Y. Filed May 25, 1923.

PEPSODA

Particular description of goods.—Preparation to Relieve Indigestion, Heartburn, and Gases.
Claims use since May 1, 1923.

Ser. No. 181,138. (CLASS 39. CLOTHING.) AARON MINTZ & SONS, INC., New York, N. Y. Filed May 25, 1923.



Particular description of goods.—Young Men's Overcoats and Suits in One, Two, Three, and Four Piece Garments.
Claims use since about May 1, 1923.

Ser. No. 181,212. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) PABST CORPORATION, Milwaukee, Wis. Filed May 26, 1923. Under Section 9 of the act of Mar. 19, 1920.

PABST

Particular description of goods.—Malt Sirup and Malt Cereal Beverages, Containing One-Half of One Per Cent Alcohol and to be Sold as a Soft Drink.
Claims use since Apr. 5, 1919.

Ser. No. 181,214. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) PABST CORPORATION, Milwaukee, Wis. Filed May 26, 1923.



The conventional lining indicates the color red.
Particular description of goods.—Malt Sirup and Malt Cereal Beverages Containing One-Half of One Per Cent Alcohol and to be Sold as a Soft Drink.
Claims use since Apr. 5, 1919.

Ser. No. 181,230. (CLASS 39. CLOTHING.) P. WOLF-GOLDMAN, INC., New York, N. Y. Filed May 26, 1923.



Particular description of goods.—Ladies', Misses', and Children's Underwear of Textile Fabric. Bath Robes, Nightgowns, Slips, Kimonos, and Buntings.
Claims use since Mar. 23, 1923.

Ser. No. 181,254. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DUBILIER CONDENSER & RADIO CORP., New York, N. Y. Filed May 28, 1923.



The trade-mark consists in a circular spot of red (the color being indicated in the drawing by vertical lines) which is applied or affixed to the goods or to the packages containing the same by stamping the trade-mark thereon and affixing a printed label to the packages containing the goods. Where the trade-mark is applied to the goods, a circular hollow depression is formed therein which is filled with red enamel, or a suitable red disk is affixed to the goods in any suitable manner.
Particular description of goods.—Connecting Plugs for Use with Radio Apparatus.
Claims use since Apr. 26, 1922.

Ser. No. 181,285. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. D. KAMPF, New York, N. Y. Filed May 28, 1923.

DESCARGA

Particular description of goods.—#1 Sodium Hydrosulphite, #2 Sodium Hydrosulphite, Sodium Bisulphite, Zinc Dust Combination for Bleaching and Discharging Colors on Dyed Material.
Claims use since May 1, 1922.

Ser. No. 181,332. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOSEPH BAKER SONS AND PERKINS LIMITED, London, England. Filed May 29, 1923.

FINISTHERM

Particular description of goods.—Mixing and Coating Machines for Plastic or Semiliquid Substances.
Claims use since Feb. 19, 1923.

Ser. No. 181,402. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) L. LEICHNER, Berlin, Germany. Filed May 31, 1923.

Lyra

Particular description of goods.—General Line of Toilet Preparations and Theatrical Perfumery.
Claims use since about 1895.

Ser. No. 181,403. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) L. LEICHNER, Berlin, Germany. Filed May 31, 1923.

Hermelin

Particular description of goods.—General Line of Toilet Preparations and Theatrical Perfumery.
Claims use since about 1883.

Ser. No. 181,404. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) L. LEICHNER, Berlin, Germany. Filed May 31, 1923.



Particular description of goods.—General Line of Toilet Preparations and Theatrical Perfumery.
Claims use since 1922.

Ser. No. 181,405. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) L. LEICHNER, Berlin, Germany. Filed May 31, 1923.

ASPASIA

Particular description of goods.—General Line of Toilet Preparations and Theatrical Perfumery.
Claims use since about 1896.

Ser. No. 181,406. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) L. LEICHNER, Berlin, Germany. Filed May 31, 1923. Under ten-year proviso.

Leichner

Particular description of goods.—General Line of Toilet Preparations and Theatrical Perfumery.
Claims use since about 1873.

Ser. No. 181,527. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INTERNATIONAL SAFETY RAZOR CORP., Bloomfield, N. J. Filed June 4, 1923.

FAX

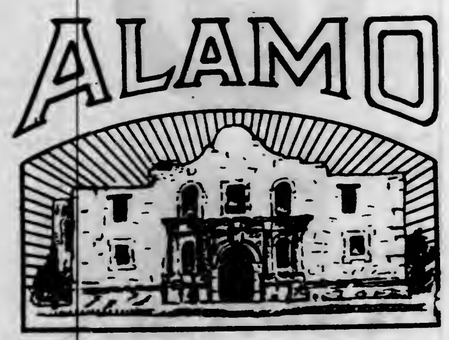
Particular description of goods.—Razors and Razor Blades.
Claims use since May 1, 1923.

Ser. No. 181,666. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y. Filed June 8, 1923.

U-TOOL-ITY

Particular description of goods.—Penknives, Penknives with Detachable Blades, Manual Holders for Blades, Razors, and Razor Blades.
Claims use since Apr. 14, 1923.

Ser. No. 181,698. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. I. ROOT COMPANY OF TEXAS, San Antonio, Tex. Filed June 8, 1923.



Particular description of goods.—Honey.
Claims use since May 15, 1923.

Ser. No. 181,746. (CLASS 39. CLOTHING.) HASPEL BROTHERS, New Orleans, La. Filed June 9, 1923.

No claim is made for the word "Suitings" apart from the mark as shown.

SuntagSuitings

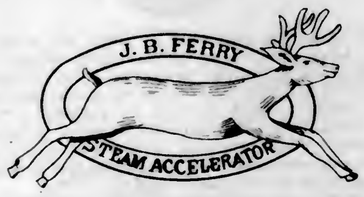
Particular description of goods.—Men's Suits, Pants, Vests, and Coats.
Claims use since January, 1923.

Ser. No. 181,774. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) O. N. PURDY, Jr., Boston, Mass. Filed June 9, 1923.

PMV

Particular description of goods.—Wool.
Claims use since Nov. 20, 1917.

Ser. No. 181,826. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN B. FERRY, San Francisco, Calif. Filed June 11, 1923.



The use of "Steam Accelerator" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Vaporizer for Internal-Combustion Motors.
Claims use since September, 1922.

Ser. No. 181,879. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CHICAGO BELTINO COMPANY, Chicago, Ill. Filed June 12, 1923.

Beltex Gripstick

Particular description of goods.—Dressing for Leather or Canvas Belts.
Claims use since May 1, 1923.

Ser. No. 182,062. (CLASS 39. CLOTHING.) ISIDORE ROSEN, doing business as Capital Neckwear Company, New York, N. Y. Filed June 15, 1923.

CAPITAL

Particular description of goods.—Collars, Scarfs, Neckties, and Cravats.
Claims use since Jan. 1, 1914.

Ser. No. 182,069. (CLASS 32. FURNITURE AND UPHOLSTERY.) FOREST C. C. SMITH, doing business as The Hem-Locked Shade Co., Luverne, Minn. Filed June 15, 1923.

Hem-Locked

Particular description of goods.—Window Shades.
Claims use since Mar. 15, 1923.

Ser. No. 182,118. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) UNITED STATES MUSIC COMPANY, Chicago, Ill. Filed June 16, 1923.

AUTO-ART

Particular description of goods.—Perforated Music Rolls.
Claims use since June 4, 1923.

Ser. No. 182,127. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOYCE & VEEDER COMPANY, INC., Long Island City, N. Y. Filed June 18, 1923.



No claim is made to the word "Concentrated" or to the phrase "The Super-Fuel Ingredient" apart from the mark as shown.
Particular description of goods.—Chemical Preparation to be Added to Gasoline and Petroleum Products for the Prevention and Removal of Carbon Deposits in Internal-Combustion Engines.
Claims use since May 14, 1923.

Ser. No. 182,131. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM D. CAVANAUGH, doing business as Velvet Oil Co., Reno and Oil City, Pa. Filed June 18, 1923.

Lax-o-Leum

Particular description of goods.—Medicinal Oil for Use as an Intestinal Lubricant.
Claims use since July 1, 1921.

Ser. No. 182,168. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE H. H. MILLER INDUSTRIES COMPANY, Canton, Ohio. Filed June 18, 1923.

SKIDD

Particular description of goods.—Bottle Filling and Capping Machines and Dairy Machinery—Namely, Aerators, Coolers, Heaters, Pasteurizers, Vats, Pumps, and Parts and Fittings for Bottle Filling and Capping Machines and Dairy Machinery.
Claims use since November, 1914.

Ser. No. 182,182. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS PUEHRER, New York, N. Y. Filed June 18, 1923.

"LOUIOLA"



The figure shown in the drawing and specimens is merely fanciful.
Particular description of goods.—Medicine in Powder Form to Relieve Sore and Aching Backs, Destroy Worms, and Act as a Stimulant to Supply Additional Blood in the System.
Claims use since May 20, 1920.

Ser. No. 182,200. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) BRANDON MILLS INC., New York, N. Y. Filed June 19, 1923.

Glotex

Particular description of goods.—Ornamental Fabrics of Vulcanized Sheet Gum Rubber of the Kind Employed in the Manufacture of Clothing, Hats, Curtains, and Draperies.
Claims use since May 25, 1923.

Ser. No. 182,242. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GRANGERS MANUFACTURING CO., Boston, Mass. Filed June 20, 1923.

BERKSHIRE GRANGERS

Particular description of goods.—Whiting for Use in Paint, Linoleum, and Rubber Trades.
Claims use since Jan. 1, 1918.

Ser. No. 182,243. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GRANGERS MANUFACTURING CO., Boston, Mass. Filed June 20, 1923.

STOCKBRIDGE GRANGERS

Particular description of goods.—Whiting for Industrial Purposes, Including Use in Paint, Linoleum, and Rubber Trades.
Claims use since Jan. 1, 1918.

Ser. No. 182,268. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SAN JOAQUIN GROCERY CO., Fresno, Calif. Filed June 20, 1923.

SUN-MAID

Particular description of goods.—Nonalcoholic, Maltless, Carbonated Beverages Sold as Soft Drinks.
Claims use since Jan. 16, 1916.

Ser. No. 182,275. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNGERER & COMPANY, INC., New York, N. Y. Filed June 20, 1923.

OZONE

Particular description of goods.—Vanillin.
Claims use since about June, 1905.

Ser. No. 182,289. (CLASS 39. CLOTHING.) BENJAMIN & WEIL, INC., New York, N. Y. Filed June 21, 1923.

CHEMI-SET

Particular description of goods.—Ladies' Undervests, Corset Covers, and Brassières.
Claims use since May 1, 1923.

Ser. No. 182,302. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GRANITE STATE SPRING WATER CO., Atkinson Depot, N. H. Filed June 21, 1923.

MAR-VO

Particular description of goods.—A Nonalcoholic, Noncereal, Maltless Beverage Sold as an Orange Drink and Sirup for Making the Same.
Claims use since Nov. 1, 1922.

Ser. No. 182,319. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILLIE L. STAGGS, doing business as Staggs' Specialty Company, Brookline, Mass. Filed June 21, 1923.

STAGGS'



Particular description of goods.—Polish for Stoves and Nickel; Polish for Precious Metals, Such as Silver; Polish for Brass, Copper, and Nickel and Similar Alloys and General Use; Hand-Cleaning Composition, and Cleaning and Scouring Composition for General Use.
Claims use since October, 1922.

Ser. No. 182,350. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ROBT. J. LEBENSON CORPORATION, New York, N. Y. Filed June 22, 1923.

SELENA FABRICS

Applicant disclaims any exclusive right to the word "Fabric" apart from the mark as shown.
Particular description of goods.—Cotton Piece Goods.
Claims use since Jan. 15, 1923.

Ser. No. 182,400. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELIZABETH M. N. COLES, New York, N. Y. Filed June 25, 1923.

NISCO HAIR-GROWER

The mark consists of the word "Nisco" and the two arrows pointing in opposite directions, the words "Hair Grower" being disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—Liquid and Soluble Combination of Ingredients Recommended as a Hair Grower.
Claims use since Dec. 1, 1922.

Ser. No. 182,405. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JESSIE A. DICKSON, doing business as J. A. Dickson Mfg. Co., Gary, Ind. Filed June 25, 1923.



The trade-mark is a portrait of the applicant.
Particular description of goods.—Preparation for Use in Treating the Scalp and Promoting Growth of Hair.
Claims use since Feb. 1, 1922.

Ser. No. 182,429. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MENTHO SULPHUR COMPANY, Jersey City, N. J. Filed June 25, 1923.

ROWLES MENTHO SULPHUR COMPOUND (PHENOLATED)



The mark showing the picture of a young woman is fanciful. No claim is made of any right of registration under the statute of the words "Rowles Mentho Sulphur Compound Phenolated" except in connection with the mark as shown, applicant reserving, however, all common-law right in the mark as a whole and to said words.
Particular description of goods.—Medicinal Salve for the Relief of Affections of the Skin and Scalp.
Claims use since about May 26, 1923.

Ser. No. 182,437. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) EAST SIDE BOTTLING WORKS, Detroit, Mich. Filed June 25, 1923.



The word "Beverages" is disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Nonalcoholic, Non-cereal, Maltless Beverages Sold as Soft Drinks.

Claims use since Oct. 15 1922.

Ser. No. 182,487. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed June 26, 1923.



Particular description of goods.—Edible Oils—Namely Technical White Oil.

Claims use since May 12, 1923.

Ser. No. 182,496. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) BLU-BLAZE CORPORATION, Chicago, Ill. Filed June 27, 1923.

INFERNO

Particular description of goods.—Alcohol Stoves.

Claims use since May 16, 1923.

Ser. No. 182,497. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BLU-BLAZE CORPORATION, Chicago, Ill. Filed June 27, 1923.

INFERNO

Particular description of goods.—Denatured Ethyl Alcohol Suitable for Use in Alcohol Stoves.

Claims use since May 16, 1923.

Ser. No. 182,514. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) GREENE, TWEED & Co., New York, N. Y., and Newark, N. J. Filed June 27, 1923.



Particular description of goods.—Door Knockers, Door Numbers, Flap Hinges, Ball-Tipped Butts, Refrigerator Hinges, Counter Hinges, Flush Rings, Chest Handles, Door Pulls, Door Holders, Door Stops, Drawer Pulls, Lifting Handles, Bolt Covers, Casement-Window Adjusters, Coat and Hat Hooks, Cabin-Door Hooks, Cleats, Brackets, Box Corners, Chest Corners, Card Holders, Hasps, Sash Lifts, Letter-Box Plates, Lever Handles.

Claims use since April, 1922.

Ser. No. 182,550. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CHAS. L. STOKOE, Wallsend-on-Tyne, England. Filed June 28, 1923.

MONITOR

Particular description of goods.—Automatic Alarms and Like Safety Devices for Use in Connection with Power Plants.

Claims use since Aug. 8, 1919.

Ser. No. 182,565. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARE FOOD & RELISH COMPANY, Philadelphia, Pa. Filed June 29, 1923.

PICKONAISE

Particular description of goods.—Vegetable Relish or Sandwich Filler.

Claims use since June 14, 1923.

Ser. No. 182,574. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DONNELLY MACHINE CO., INC., Brockton, Mass. Filed June 29, 1923.

DonLee

Particular description of goods.—Machinery for Use in the Shoe, Hat, and Glove Trade—Namely, Perforating and Pinking Machines, Hand-Pinking Roll Turners, Heel-Beading Machines, Mechanical Molds, Split Buffing Rolls, Ring Felt Finishing Wheels and Rolls, Heel-Scouring Wheels, Edge-Scouring Wheels, Split-Bottom Felt Finishing Rolls, Heel-Breast Pads, Soapstone Wheels, Heel-Breast-Scouring Wheels, Upper-Leather-Finishing Wheels and Rolls, Rubber-Sole Rough Trimmers, Rubber Tubes and Plug Cutters, Foot-Power Self-Feeding Eyelet Machines, Post Punches, Top-Facing Machines, Railroad Machines, Pulling Machines, Edge-Blacking Machines, Automatic Buffers, Improved Union Twin Edge Setters; Buffers for Buffing or Scouring Bottoms, Shanks, and Top Pieces of Leather Shoes; Acme Levelers, Sole Racks, Sandpaper Strippers, Heel Breasters, Heel Scourers; Edge Trimmers, Winders, and Polishers; Edge Burnishers, Stripping Machines, Power Eyelet Machines, Rubber-Stock-Cutting Machines, Tag Holders, Ball-Bearing Heel-Randing Guards, Bench Finishing Shafts, Rotary Knife Grinders, Foot-Power Bottom Stampers, Perforating Wheels, Pinking Wheels; Perforating Tubes, Dies, and Punches; and Leather-Splitting Machines.

Claims use since January, 1919.

Ser. No. 182,577. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FULTON CONFECTIONERY COMPANY, Boston, Mass. Filed June 29, 1923.



Particular description of goods.—Candy.

Claims use since Aug. 11, 1910.

Ser. No. 182,579. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEDDES & BARNABY, also doing business as Al-Fa-Fa Mfg. Co., Los Angeles, Calif. Filed June 29, 1923.

AL-FA-FA

Particular description of goods.—Laxatives and Tonics—Namely, a Tonic, Tablet, or Pill, a Laxative Candy, a Liquid Tonic, a Digestive Tablet, a Kidney Tablet, a Laxative Pill.

Claims use since May 15, 1923.

Ser. No. 182,590. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KALIFORNIA KOLA CO., Los Angeles, Calif. Filed June 29, 1923.



Particular description of goods.—Candy.

Claims use since Sept. 3, 1921.

Ser. No. 182,598. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MEAD JOHNSON & COMPANY, Evansville, Ind. Filed June 29, 1923.

MEAD'S
RE-CO-LAC

Particular description of goods.—A Specially-Prepared Food in Powdered Form for Infants.

Claims use since June 5, 1923.

Ser. No. 182,623. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE TALLERDAY MEDICINE COMPANY, Belvidere and Chicago, Ill. Filed June 29, 1923.

Dr. Tallerday's
OLA

Particular description of goods.—Medicated Oil for the Treatment of Eye Inflammation.

Claims use since June, 1920.

Ser. No. 182,627. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH TRINER COMPANY, Chicago, Ill. Filed June 29, 1923.

FLI-GASS

Particular description of goods.—Liquid Preparation for the Extermination of Flies and Mosquitoes.

Claims use since June 4, 1923.

Ser. No. 182,628. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH TRINER COMPANY, Chicago, Ill. Filed June 29, 1923.

CHU-MEE

Particular description of goods.—Laxative Chewing Gum.
Claims use since May 9, 1923.

Ser. No. 182,664. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GEORGE W. LUFT COMPANY, INC., Long Island City, N. Y. Filed June 30, 1923.

TANGEE

Particular description of goods.—Lip Stick and Rouge.
Claims use since about 1920.

Ser. No. 182,665. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) L. M. MOREHOUSE, doing business as La-Bay Co., San Francisco, Calif. Filed June 30, 1923.

INSTANTO

Particular description of goods.—Bleaching and Cleansing Facial Liquids and Creams.
Claims use since June 8, 1923.

Ser. No. 182,705. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES DUTTON, Philadelphia, Pa. Filed July 2, 1923.

TU JON

Particular description of goods.—Preparation for Treatment of Sluggish Conditions of the Bowels and Disorders Arising from Such Conditions.
Claims use since June 5, 1923.

Ser. No. 182,723. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCHLINTZ BROS. CO., Appleton, Wis. Filed July 2, 1923.

K-I

Particular description of goods.—Corn Remedy.
Claims use since June 1, 1922.

Ser. No. 182,724. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCHLINTZ BROS. CO., Appleton, Wis. Filed July 2, 1923.

Lovelle

Particular description of goods.—Shampoo.
Claims use since Feb. 1, 1921.

Ser. No. 182,725. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCHLINTZ BROS. CO., Appleton, Wis. Filed July 2, 1923.

Linco

Particular description of goods.—Cough Remedy.
Claims use since Feb. 1, 1921.

Ser. No. 182,734. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BEATRICE CREAMERY COMPANY, Chicago, Ill. Filed July 3, 1923.

Beatrice

Particular description of goods.—Ice Cream.
Claims use since Mar. 1, 1910.

Ser. No. 182,738. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CARROLL H. DIKEMAN, doing business as Dikeman's Orange Beverage Stores, Washington, D. C. Filed July 3, 1923.



The drawing is lined for shading purposes only, and is not intended to convey color.
Particular description of goods.—Orange Juice, Fruit Ciders.
Claims use since June 15, 1923.

Ser. No. 182,739. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CARROLL H. DIKEMAN, doing business as Dikeman's Orange Beverage Stores, Washington, D. C. Filed July 3, 1923.



No claim is made to the expression "Delicious Orange Beverage" and the representation of the fruit per se. However, applicant does not disclaim any of his rights to the fruit design.
Particular description of goods.—Orange Juice, Fruit Ciders.
Claims use since June 15, 1923.

Ser. No. 182,745. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FOLEY & COMPANY, Chicago, Ill. Filed July 3, 1923.

Deliscent

Particular description of goods.—Cold Cream.
Claims use since May 26, 1923.

Ser. No. 182,749. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) M. G. GOELLER'S SONS, Circleville, Ohio. Filed July 3, 1923.

Purple Queen

Particular description of goods.—Floor Brushes for Sweeping and Dusting Purposes.
Claims use since 1919.

Ser. No. 182,760. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELI LILLY AND COMPANY, Indianapolis, Ind. Filed July 3, 1923.

RHEUMALGINE

Trade-mark consists of the word "Rheumalgine."
Particular description of goods.—Medicinal Preparation in Liquid or Tablet Form for Use in the Treatment of Rheumatism, Muscular Pains, Lumbago, Sciatica, Colds, Influenza, Tonsillitis, and Similar Diseases.
Claims use since September, 1903.

Ser. No. 182,797. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GIVIEMME COMPANY, Philadelphia, Pa. Filed July 5, 1923.

Giviemme

Particular description of goods.—Perfumes, Face Powders, Toilet Waters, Sachet Powders, Lotions for the Hair, and Brilliantine.
Claims use since October, 1921.

Ser. No. 182,810. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NETTIE E. HECKETHORN, Casper, Wyo. Filed July 5, 1923.

LAST CHANCE HAIR TONIC

No claim made to the words "Hair Tonic" apart from the mark shown by the drawing.

Particular description of goods.—Hair Tonic.

Claims use since Mar. 10, 1918.

Ser. No. 182,859. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JAMES H. RHODES & COMPANY, Chicago, Ill. Filed July 6, 1923.

POL-I-PADZ

Particular description of goods.—Polishing Soap and Pads of Steel Wool to be Used Therewith.

Claims use since June 5, 1923.

Ser. No. 182,860. (CLASS 37. PAPER AND STATIONERY.) SEAMAN PAPER COMPANY, Chicago, Ill. Filed July 6, 1923.



No claim is made as to the exclusive right to the word "Enamel" forming part of said trade-mark apart from the mark shown.

Particular description of goods.—Enamel Book Paper.

Claims use since June 1, 1904.

Ser. No. 182,861. (CLASS 37. PAPER AND STATIONERY.) SEAMAN PAPER COMPANY, Chicago, Ill. Filed July 6, 1923.



No claim is made as to the exclusive right to the word "Enamel" forming part of said trade-mark apart from the mark shown.

Particular description of goods.—Enamel Book Paper.

Claims use since June 30, 1907.

Ser. No. 182,862. (CLASS 37. PAPER AND STATIONERY.) SEAMAN PAPER COMPANY, Chicago, Ill. Filed July 6, 1923.



Particular description of goods.—Ledger Paper.

Claims use since Jan. 15, 1922.

Ser. No. 182,863. (CLASS 37. PAPER AND STATIONERY.) SEAMAN PAPER COMPANY, Chicago, Ill. Filed July 6, 1923.



No claim is made as to the exclusive right to the word "Book" forming part of said trade-mark apart from the mark shown.

Particular description of goods.—Uncoated Book Paper.

Claims use since Jan. 30, 1923.

Ser. No. 182,864. (CLASS 37. PAPER AND STATIONERY.) SEAMAN PAPER COMPANY, Chicago, Ill. Filed July 6, 1923.



No claim is made as to the exclusive right to the word "Index" forming part of said trade-mark apart from the mark shown.

Particular description of goods.—Bristol-Board Paper.

Claims use since Mar. 1, 1922.

Ser. No. 182,865. (CLASS 37. PAPER AND STATIONERY.) SEAMAN PAPER COMPANY, Chicago, Ill. Filed July 6, 1923.



No claim is made as to the exclusive right to the word "Blanks" forming part of said trade-mark apart from the mark shown.

Particular description of goods.—Coated Cardboard Paper.

Claims use since Oct. 1, 1921.

Ser. No. 182,866. (CLASS 37. PAPER AND STATIONERY.) SEAMAN PAPER COMPANY, Chicago, Ill. Filed July 6, 1923.



No claim is made as to the exclusive right to the word "Book" forming part of said trade-mark apart from the mark shown.

Particular description of goods.—Uncoated Book Paper.

Claims use since June 1, 1903.

Ser. No. 182,867. (CLASS 37. PAPER AND STATIONERY.) SEAMAN PAPER COMPANY, Chicago, Ill. Filed July 6, 1923.



No claim is made as to the exclusive right to the word "Book" forming part of said trade-mark apart from the mark shown.

Particular description of goods.—Uncoated Book Paper.

Claims use since June 1, 1903.

Ser. No. 182,868. (CLASS 37. PAPER AND STATIONERY.) SEAMAN PAPER COMPANY, Chicago, Ill. Filed July 6, 1923.



No claim is made as to the exclusive right to the word "Enamel" forming part of said trade-mark apart from the mark shown.

Particular description of goods.—Enameled Book Paper.

Claims use since Oct. 1, 1921.

Ser. No. 182,869. (CLASS 37. PAPER AND STATIONERY.) SEAMAN PAPER COMPANY, Chicago, Ill. Filed July 6, 1923.



No claim is made as to the exclusive right to the words "Superb Writing" forming part of said trade-mark apart from the mark shown.

Particular description of goods.—Writing Paper.

Claims use since June 1, 1922.

Ser. No. 182,870. (CLASS 37. PAPER AND STATIONERY.) SEAMAN PAPER COMPANY, Chicago, Ill. Filed July 6, 1923.



No claim is made as to the exclusive right to the word "Mimeograph" forming part of said trade-mark apart from the mark shown.

Particular description of goods.—Writing and Mimeographing Paper.

Claims use since Oct. 30, 1921.

Ser. No. 182,871. (CLASS 37. PAPER AND STATIONERY.) SEAMAN PAPER COMPANY, Chicago, Ill. Filed July 6, 1923.



No claim is made as to the exclusive right to the word "Book" forming part of said trade-mark apart from the mark shown.

Particular description of goods.—Uncoated Book Paper.

Claims use since June 30, 1922.

Ser. No. 182,872. (CLASS 37. PAPER AND STATIONERY.) SEAMAN PAPER COMPANY, Chicago, Ill. Filed July 6, 1923.



Particular description of goods.—Manila Tag Paper.

Claims use since June 30, 1922.

Ser. No. 182,873. (CLASS 37. PAPER AND STATIONERY.) SEAMAN PAPER COMPANY, Chicago, Ill. Filed July 6, 1923.



No claim is made as to the exclusive right to the word "Bond" forming part of said trade-mark apart from the mark shown.

Particular description of goods.—Unwatermarked Sulphite Bond Paper.

Claims use since June 1, 1922.

Ser. No. 182,874. (CLASS 37. PAPER AND STATIONERY.) SEAMAN PAPER COMPANY, Chicago, Ill. Filed July 6, 1923.

Sepaco Bond

No claim is made as to the exclusive right to the word "Bond" forming part of said trade-mark apart from the mark shown.

Particular description of goods.—Watermarked Sulphite Bond Paper.

Claims use since June 1, 1922.

Ser. No. 182,875. (CLASS 37. PAPER AND STATIONERY.) SEAMAN PAPER COMPANY, Chicago, Ill. Filed July 6, 1923.

Sales Producer

Particular description of goods.—Specially Duplex Coated Paper.

Claims use since June 30, 1922.

Ser. No. 182,876. (CLASS 37. PAPER AND STATIONERY.) SEAMAN PAPER COMPANY, Chicago, Ill. Filed July 6, 1923.

Pictorial Enamel

No claim is made as to the exclusive right to the word "Enamel" forming part of said trade-mark apart from the mark shown.

Particular description of goods.—Enameled Book Paper.

Claims use since June 1, 1922.

Ser. No. 182,877. (CLASS 37. PAPER AND STATIONERY.) SEAMAN PAPER COMPANY, Chicago, Ill. Filed July 6, 1923.

Devonshire E. J.

No claim is made as to the exclusive right to the word "Devonshire" forming part of said trade-mark apart from the mark shown.

Particular description of goods.—Uncoated Book Paper.

Claims use since Oct. 30, 1921.

Ser. No. 182,878. (CLASS 37. PAPER AND STATIONERY.) SEAMAN PAPER COMPANY, Chicago, Ill. Filed July 6, 1923.

Caravan S. & S. C.

Particular description of goods.—Uncoated Book Paper.

Claims use since Oct. 30, 1921.

Ser. No. 182,879. (CLASS 37. PAPER AND STATIONERY.) SEAMAN PAPER COMPANY, Chicago, Ill. Filed July 6, 1923.

Westminster Book

No claim is made as to the exclusive right to the words "Westminster Book" forming part of said trade-mark apart from the mark shown.

Particular description of goods.—Uncoated Book Paper.

Claims use since Nov. 1, 1922.

Ser. No. 182,880. (CLASS 37. PAPER AND STATIONERY.) SEAMAN PAPER COMPANY, Chicago, Ill. Filed July 6, 1923.

Colorplate

Particular description of goods.—Uncoated Book Paper.

Claims use since Nov. 1, 1922.

Ser. No. 182,881. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACQUES M. STRULLY, doing business as Chiklax Chemical Products Co., Brooklyn, N. Y. Filed July 6, 1923.

CHIKLAX

Particular description of goods.—Medicinal Laxatives in Chewing-Gum Form.

Claims use since May 16, 1923.

Ser. No. 182,897. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMERICAN DYEWOOD COMPANY, New York, N. Y. Filed July 7, 1923.

AMDYCO

Particular description of goods.—Fire-Extinguishing Compositions and Ingredients Thereof.

Claims use since June 27, 1923.

Ser. No. 182,954. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) AMERICAN INSTITUTE OF RATIONAL THERAPEUTICS, Chicago, Ill. Filed July 9, 1923.

HEMOPATHOMETER

Particular description of goods.—Electrical Outfits for Electronic Diagnosis.

Claims use since May 20, 1923.

Ser. No. 182,955. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) AMERICAN INSTITUTE OF RATIONAL THERAPEUTICS, Chicago, Ill. Filed July 9, 1923.

ELECTRONOCLAST

Particular description of goods.—Treatment Outfits for Electrotherapeutics.

Claims use since May 20, 1923.

Ser. No. 182,956. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) AMERICAN INSTITUTE OF RATIONAL THERAPEUTICS, Chicago, Ill. Filed July 9, 1923.

RATIONAL

Particular description of goods.—Electrical Outfits for Electronic Diagnosis and Electrotherapeutics.

Claims use since May 20, 1923.

Ser. No. 182,968. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE FRIES & FRIES COMPANY, Cincinnati, Ohio. Filed July 9, 1923.

FRIES-O-LAX

Particular description of goods.—Laxative.

Claims use since May 26, 1923.

Ser. No. 182,969. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE FRIES & FRIES COMPANY, Cincinnati, Ohio. Filed July 9, 1923.

F&F

Particular description of goods.—Laxative.

Claims use since May 26, 1923.

Ser. No. 182,998. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE RUBBER SERVICE LABORATORIES CO., Akron, Ohio. Filed July 9, 1923.

RUBBER SERVICE A-19 LABORATORIES

TRADE MARK

The words "Trade-Mark" are disclaimed. No claim is made to the symbols "A-19" except the combination as shown.

Particular description of goods.—Compound Used in the Curing of Rubber Articles, Said Compound Being Produced by the Interaction of Aldehydes and Amines.

Claims use since Apr. 23, 1923.

Ser. No. 183,026. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FALIXA LABORATORY, Bridgeport, Conn. Filed July 10, 1923.

Falixas

Particular description of goods.—Preparation for Invigorating and Cleaning the Scalp.

Claims use since June 17, 1923.

Ser. No. 183,027. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLASH CHEMICAL COMPANY, Cambridge, Mass. Filed July 10, 1923.

CAFO-CEAR

Particular description of goods.—Insecticides and Cleaning Liquids.

Claims use since January, 1919.

Ser. No. 183,044. (CLASS 45. BEVERAGES, NONALCOHOLIC.) SOC. AN. FSCO. CINZANO & CIA., Turin, Italy. Filed July 10, 1923. Under section 9 of the act of Mar. 19, 1920.



Particular description of goods.—A Nonalcoholic, Maltless Beverage Sold as a Soft Drink.
Claims use since June 1, 1922.

Ser. No. 183,048. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CARL ZEISS, Jena, Germany, Filed July 10, 1923.

Ducar

Particular description of goods.—Color Filters.
Claims use since 1908.

Ser. No. 183,106. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE LOUIS G. FREEMAN COMPANY, Cincinnati, Ohio. Filed July 12, 1923.

The Louis G Freeman Co
SHOE MAKING MACHINERY
CINCINNATI OHIO U.S.A.

Applicant, without waiving any of its common-law rights thereto, hereby disclaims the words "Shoe Making Machinery, Cincinnati, Ohio, U. S. A." apart from the mark as shown in the drawing.
Particular description of goods.—Shoe Machinery, Parts, and Supplies—Namely, Tack-Pulling Machines, Shank-Beating Machines, Heel-Breast-Scouring Machines, Belt-Buffing Machines, Heel-Breast-Trimming Machines, Tack-Pulling and Wire-Removing Machines, Block Planes, Shoe Jacks, Heel-Seat-Jointing Machines, Skiving Machines, Randing Machines, Wedge-Splitting Machines, Top-Band-Pressing Machines, Trimming Knives, Tack Claws, and Sandpaper Belts.
Claims use since Nov. 1, 1922.

Ser. No. 183,133. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AUTOMATIC ELECTRIC COMPANY, Chicago, Ill. Filed July 13, 1923.

C-A-X TRADE MARK

No claim is made for the words "Trade Mark" apart from the mark shown in the drawing.
Particular description of goods.—Automatic Telephone Systems.
Claims use since Dec. 29, 1922.

Ser. No. 183,166. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) SCHAFUSS CORPORATION, New York, N. Y. Filed July 13, 1923.

PARAPAD

Particular description of goods.—Sanitary Napkins.
Claims use since June 28, 1923.

Ser. No. 183,179. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LEWIS A. TURCK, Hornell, N. Y. Filed July 13, 1923.

JUST-RITE

Particular description of goods.—Cake Icing.
Claims use since November, 1922.

Ser. No. 183,234. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SCHLORER DELICATESSEN CO., Philadelphia, Pa. Filed July 14, 1923.

PIC-O-NAISE

Particular description of goods.—A Vegetable Relish or Sandwich Filler, Composed of Oil, Fresh Eggs, Vinegar, Vegetables, Sugar, and Spices.
Claims use since the first week in June, 1923.

Ser. No. 183,271. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GENERAL PAINT AND VARNISH COMPANY, Chicago, Ill. Filed July 16, 1923.

CONGRESS

Particular description of goods.—Ready-Mixed Paints, Paint Enamels, and Stains.
Claims use since Jan. 1, 1922.

Ser. No. 183,274. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GENERAL PAINT AND VARNISH COMPANY, Chicago, Ill. Filed July 16, 1923.

WORTH - WEIL

Particular description of goods.—Flat Wall Paint.
Claims use since Jan. 1, 1922.

Ser. No. 183,275. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GENERAL PAINT AND VARNISH COMPANY, Chicago, Ill. Filed July 16, 1923.

VELVETTA

Particular description of goods.—Paint Enamels, Flat Wall Finish, and Varnishes.
Claims use since Jan. 1, 1922.

Ser. No. 183,276. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GENERAL PAINT AND VARNISH COMPANY, Chicago, Ill. Filed July 16, 1923.

VELVESAN

Particular description of goods.—Flat Wall Finish.
Claims use since Jan. 1, 1922.

Ser. No. 183,278. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GENERAL PAINT AND VARNISH COMPANY, Chicago, Ill. Filed July 16, 1923.

VELVETONE

Particular description of goods.—Paint Enamels, Flat Wall Finish, and Varnishes.
Claims use since Jan. 1, 1922.

Ser. No. 183,279. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GENERAL PAINT AND VARNISH COMPANY, Chicago, Ill. Filed July 16, 1923.

LINSMENT

Particular description of goods.—Varnish for the Cementing of Linoleums, Congoleums, and Rubber Tile.
Claims use since Jan. 1, 1922.

Ser. No. 183,280. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GENERAL PAINT AND VARNISH COMPANY, Chicago, Ill. Filed July 16, 1923.

LEMOYL

Particular description of goods.—Lemon-Oil Polish.
Claims use since Jan. 1, 1922.

Ser. No. 183,281. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GENERAL PAINT AND VARNISH COMPANY, Chicago, Ill. Filed July 16, 1923.

GEN KUT

Particular description of goods.—Paint and Varnish Removers.
Claims use since Jan. 1, 1922.

Ser. No. 183,282. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GENERAL PAINT AND VARNISH COMPANY, Chicago, Ill. Filed July 16, 1923.

CRYSTAL ROCK

Particular description of goods.—Varnishes and Stains.
Claims use since Jan. 1, 1922.

Ser. No. 183,316. (CLASS 39. CLOTHING.) REPUBLIC KNITTING MILLS, Philadelphia, Pa. Filed July 16, 1923.

QUEENS'
KNIT TO FIT

The color lining representing the red and blue colors in which the trade-mark is shown. Applicant disclaims the words "Knit to Fit" as his trade-mark except in connection with the mark shown in the drawing.
Particular description of goods.—Knit Underwear and Athletic Suits for Men, Women, and Children.
Claims use since June 15, 1923.

Ser. No. 183,323. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TOKHEIM OIL TANK & PUMP CO., Fort Wayne, Ind. Filed July 16, 1923.

TOKHEIM

Particular description of goods.—Oil and Gasoline Measuring Pumps.
Claims use since May, 1902.

Ser. No. 183,354. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE BAIN WAGON COMPANY, Kenosha, Wis. Filed July 17, 1923. Under ten-year proviso.

THE BAIN

Particular description of goods.—Wagons.
Claims use since 1852.

Ser. No. 183,356. (CLASS 39. CLOTHING.) BOB & BASKIND, New York, N. Y. Filed July 18, 1923.



Particular description of goods.—Men's and Boys' Work Shirts, Dress Shirts, Sport Shirts, Boys' Waists and Blouses, and Textile Underwear for Men and Boys.
Claims use since Apr. 22, 1922.

Ser. No. 183,369. (CLASS 39. CLOTHING.) FINCH, VAN SLYCK & MCCONVILLE, St. Paul, Minn. Filed July 18, 1923.

MANSIZE

Particular description of goods.—Work Shirts.
Claims use since on or about Jan. 1, 1915.

Ser. No. 183,379. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) GUTHMAN, SOLOMONS & CO., INC., New York, N. Y. Filed July 18, 1923.

SUN



Particular description of goods.—Beads for Decoration and Ornamentation as Distinguished from Jewelry.
Claims use since July 11, 1923.

Ser. No. 183,383. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HINSDALE MANUFACTURING COMPANY, Chicago, Ill. Filed July 18, 1923.

HINSDALE

The lining expressing red. The central circular part of the mark with the surrounding circles is usually printed in red, with the name "Hinsdale" printed in black.

Particular description of goods.—Wrenches, Wrench Sets, Socket-Wrench Sets, and Alignment Jigs for Connecting Rods, Pistons, and Piston Pins.
Claims use since October, 1919.

Ser. No. 183,384. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HERBERT S. JENNER, Rochester, N. Y. Filed July 18, 1923.

TABLE ROCK

Particular description of goods.—Nonalcoholic, Malt-less Beverages Sold as Soft Drinks.
Claims use since at least 1891.

Ser. No. 183,388. (CLASS 39. CLOTHING.) THE KING OVERALL CO. INC., Suffolk, Va. Filed July 18, 1923.

KING

Particular description of goods.—Overalls, Negligee and Work Shirts, Textile Underwear for Men, Women, and Children, Pyjamas.
Claims use since 1911.

Ser. No. 183,410. (CLASS 39. CLOTHING.) RUMMEL, HIMES & CO., Shippensburg, Pa. Filed July 18, 1923. Under ten-year proviso.

Shippensburg
EXTRA FULL CUT

Particular description of goods.—Overalls, Jumpers, Negligee and Work Shirts; Trousers of All Lengths (Regular, Knee, Lace or Button Bottoms), Vests, Coats, and Hunting Coats.
Claims use since 1888.

Ser. No. 183,412. (CLASS 32. FURNITURE AND UPHOLSTERY.) SIMMONS COMPANY, Kenosha, Wis. Filed July 18, 1923.



Particular description of goods.—Bed Springs.
Claims use since Oct. 1, 1922.

Ser. No. 183,453. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) METRO PICTURES CORPORATION, New York, N. Y. Filed July 19, 1923.

Metro

Particular description of goods.—Motion-Picture Films.
Claims use since May 1, 1923.

Ser. No. 183,471. (CLASS 12. CONSTRUCTION MATERIALS.) DUNCO METAL PRODUCTS CO., Los Angeles, Calif. Filed July 20, 1923.

DUNCO

Particular description of goods.—Sheet-Metal Products, Corner Irons, Hip and Ridge Metal Shingles, Plaster Bead, Metal Trim, Metal Tiles.
Claims use since Oct. 1, 1922.

Ser. No. 183,491. (CLASS 12. CONSTRUCTION MATERIALS.) HERBERT P. PAGE, doing business as H. P. Page Co., Boston, Mass. Filed July 20, 1923.

ANKERITE

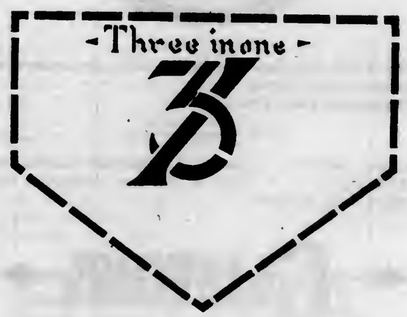
Particular description of goods.—Cement and Other Petrescent Materials, Magnesite Flooring, and Artificial Blocks of All Kinds for Both Interior and Exterior Work.
Claims use since April 29, 1921.

Ser. No. 183,503. (CLASS 12. CONSTRUCTION MATERIALS.) SCHMIDT & AULT PAPER CO., York, Pa. Filed July 20, 1923.



Particular description of goods.—Building Paper, Sheathing, Plaster Board, and Indented Paper.
Claims use since Apr. 1, 1923.

Ser. No. 183,513. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) H. WENZEL TENT AND DUCK CO., St. Louis, Mo. Filed July 20, 1923.



Particular description of goods.—Tents.
Claims use since Oct. 1, 1921.

Ser. No. 183,527. (CLASS 2. RECEPTACLES.) M. & V. TANK COMPANY, Wichita Falls, Tex. Filed July 21, 1923.



The words "Wichita Falls, Texas" are disclaimed as a part of the trade-mark.

Particular description of goods.—Storage Tanks.

Claims use since Mar. 1, 1919.

Ser. No. 183,553. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHAMPION PNEUMATIC MACHINERY COMPANY, Chicago, Ill. Filed July 23, 1923.



Particular description of goods.—Air Compressors and Air and Water Stands.

Claims use since Jan. 1, 1919.

Ser. No. 183,555. (CLASS 12. CONSTRUCTION MATERIALS.) A. J. COOK & Co., INC., Memphis, Tenn. Filed July 23, 1923.



Particular description of goods.—Prepared Portland Cement Stucco Finish (White and Tinted).

Claims use since May 10, 1923.

Ser. No. 183,578. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) LAITMAN & LAITMAN, New York, N. Y. Filed July 23, 1923.

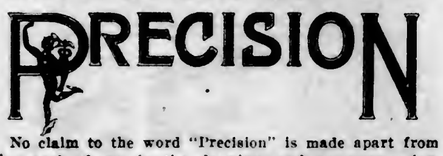


The horizontal lines on the drawing represent red color. No claim is made to the words, "It Wears & Wears & Wears," "Luggage," "Guaranteed," and "Satisfaction" apart from the mark shown on the drawing.

Particular description of goods.—Traveling Bags, Suitcases, Brief Cases, and Trunks.

Claims use since June 1, 1923.

Ser. No. 183,592. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) PRECISION SPEEDOMETER CO., Detroit, Mich. Filed July 23, 1923.



No claim to the word "Precision" is made apart from the mark shown in the drawing, and no common-law rights in the mark or any feature thereof is waived by this disclaimer.

Particular description of goods.—Speedometers and Speedometer Plates.

Claims use since July 1, 1922.

Ser. No. 183,599. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo. Filed July 23, 1923.

BLUEBELLE

Particular description of goods.—Lawn Mowers.

Claims use since Dec. 4, 1912.

Ser. No. 183,613. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WASHINGTON IRON WORKS, Seattle, Wash. Filed July 23, 1923.



Particular description of goods.—Logging and Hoisting Equipment—Namely, Blocks of All Kinds, Carriages, and Winding Engines, Driven by Steam, Electricity, or Internal-Combustion Engines.

Claims use since about June 1, 1922.

Ser. No. 183,616. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SARAH GREEN WHITSITT, doing business as Bestyett Food Company, Fort Worth, Tex. Filed July 23, 1923.

BESTYETT

Particular description of goods.—Salad Dressing.

Claims use since Nov. 1, 1922.

Ser. No. 183,622. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) BERWIND FUEL COMPANY, Minneapolis, Minn. Filed July 24, 1923.



No claim is made for the word "Coal" except as associated with the other features of the mark.

Particular description of goods.—Coal.

Claims use since June 21, 1923.

Ser. No. 183,625. (CLASS 25. LOCKS AND SAFES.) THE HISEY-WOLF MACHINE COMPANY, Cincinnati, Ohio. Filed July 24, 1923.

GRAULOCK

Particular description of goods.—Locks, Particularly for Motor Vehicles.

Claims use since June 2, 1923.

Ser. No. 183,627. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PERCY HARRISON JAMES, Oklahoma, Okla. Filed July 24, 1923.

JAYKOLA

The word "Kola" being disclaimed apart from the mark shown, wherein it is distinctively displayed.

Particular description of goods.—A Nonalcoholic, Maltless Beverage Sold as a Soft Drink.

Claims use since Jan. 12, 1921.

Ser. No. 183,651. (CLASS 12. CONSTRUCTION MATERIALS.) THE HEPBURN COMPANY, Cleveland, Ohio. Filed July 25, 1923.

NOVOID

Particular description of goods.—Asphalt, Including Asphalt Products Designed for Roofing, Paving, Flooring, Coating, Insulating, and Acid Proofing.

Claims use since July 19, 1923.

Ser. No. 183,686. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AUTOMATIC BEARING MACHINE CO., San Jose, Calif. Filed July 26, 1923.

TURBO!

Particular description of goods.—Cylinder Heads.

Claims use since May 1, 1923.

Ser. No. 183,713. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE LOVELL OIL COMPANY, INC., West Fort Lee, N. J. Filed July 26, 1923.



The applicant disclaims exclusive right to the words "Trade Mark Reg. U. S. Pat. Office."

Particular description of goods.—Lemon Oil and Other Oils and Polishes for Floors, Furniture, Automobiles, and Painted and Varnished Surfaces.

Claims use since July 16, 1923.

Ser. No. 183,727. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) BAILEY F. WILLIAMSON, Gainesville, Fla. Filed July 26, 1923.

SEOLA

Particular description of goods.—Rock Used in the Manufacture of Artificial Stone.

Claims use since July 9, 1923.

Ser. No. 183,743. (CLASS 39. CLOTHING.) HEIDELBERG, WOLFF & CO., New York, N. Y. Filed July 27, 1923. Under ten-year proviso.



Particular description of goods.—Men's and Young Men's Suits, Sack Suits, Overcoats, Waistcoats, Raincoats, Chauffeur Garments, Auto Ulsters, Auto Dusters, Summer Clothing, Tropical Clothing, Mohair Suits, Crash Suits, Outing Trousers, Sport Coats, Golf Suits, Norfolk and Golf Coats, Riding Breeches, Smoking Jackets, House Coats, Full-Dress Suits, Tuxedo Suits, Topcoats, Storm Ulsters.
Claims use since January, 1887.

Ser. No. 183,806. (CLASS 15. OILS AND GREASES.) THE SUNFIELD COMPANY, Milford, Conn. Filed July 28, 1923.

SUNFIELD

Particular description of goods.—Gasoline, Kerosene, Benzine, Petroleum, Distillates, Fuel Oils, and Lubricants and Solvents in the Nature of Oils and Greases.
Claims use since Sept. 1, 1922.

Ser. No. 183,808. (CLASS 37. PAPER AND STATIONERY.) THE TISSUE COMPANY, Saugerties, N. Y. Filed July 28, 1923.

PAKLOTH

Particular description of goods.—Embossed Napkins.
Claims use since Feb. 27, 1922.

Ser. No. 183,817. (CLASS 39. CLOTHING.) JOHN BLOOD & COMPANY, INC., Philadelphia, Pa. Filed July 30, 1923.



Particular description of goods.—Hosiery.
Claims use since June, 1893.

Ser. No. 183,835. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HUTCHINSON MANUFACTURING CO., INC., Norristown, Pa. Filed July 30, 1923.

THE BEAVER

Particular description of goods.—Combination Woodworking Machines for Sawing, Boring, Planing, Jointing, and Other Operations.
Claims use since Feb. 2, 1923.

Ser. No. 183,836. (CLASS 39. CLOTHING.) KAUFMAN-ROHRLICH KNITTING MILLS, INC., New York, N. Y. Filed July 30, 1923.

KAROMI

Particular description of goods.—Sweaters and Scarfs.
Claims use since July 17, 1923.

Ser. No. 183,883. (CLASS 39. CLOTHING.) NEW HAVEN KNITTING MILLS, New Haven, Conn. Filed July 31, 1923.

LADERBAK

Particular description of goods.—Hosiery.
Claims use since Jan. 20, 1923.

Ser. No. 183,925. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HAINES MANUFACTURING CORPORATION, Rochester, N. Y. Filed Aug. 1, 1923.

CEZ

Particular description of goods.—Automobile Accessories—Namely, Windshield Cleaners, Metal Frames for Holding Glass in Curtains, Glare Shields, Latter Being a Metal Bracket Adjustably Supporting Tinted Glass to Neutralize the Glare From Approaching Headlights.
Claims use since June 21, 1921.

Ser. No. 184,052. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) AMERICAN LA FRANCE FIRE ENGINE COMPANY, INC., Elmira, N. Y. Filed Aug. 4, 1923.

AMERICAN LA FRANCE

Particular description of goods.—Motor-Driven Vehicles.
Claims use since Jan. 13, 1921.

Ser. No. 184,060. (CLASS 39. CLOTHING.) ATLAS KNITTING MILLS, INC., Union, N. J. Filed Aug. 4, 1923.

ATLAS

Particular description of goods.—Knitted Outer Garments—Namely, Bathing Suits, Sweaters, and Slip-Ons.
Claims use since Nov. 1, 1912.

Ser. No. 184,083. (CLASS 39. CLOTHING.) LEVY & MARCUS, New York, N. Y. Filed Aug. 4, 1923.

MELLOWTONE

Particular description of goods.—Scarfs, Cravats, and Neckties.
Claims use since July 1, 1923.

Ser. No. 184,121. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CITRUS PRODUCTS COMPANY, Chicago, Ill. Filed Aug. 6, 1923.

ELLA

Particular description of goods.—Maltless-Beverage Flavors and Beverages Made Therefrom.
Claims use since Jan. 1, 1922.

Ser. No. 184,175. (CLASS 39. CLOTHING.) MAY & LOEB, INC., New York, N. Y. Filed Aug. 7, 1923.

THE Debbie FROCK

No claim made to the exclusive use of the word "Frock" apart from the mark as shown in the drawing.
Particular description of goods.—Ladies' Dresses and Skirts.
Claims use since July 23, 1923.

Ser. No. 184,240. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) GEVAERT PHOTO-PRODUCTEN N. V., Oude-God, near Antwerp, Belgium. Filed Aug. 9, 1923.



No claim is made to the use of the words and letters "Paper" and "Gelatino Chloride P. O. P." apart from the mark shown in the drawing.
Particular description of goods.—Sensitized Photographic Papers.
Claims use since March, 1901.

Ser. No. 184,265. (CLASS 39. CLOTHING.) JACOB SALSBERG INC., New York, N. Y. Filed Aug. 9, 1923.

Lenja Brand UNDERWEAR

No claim is made to the exclusive use of the words "Brand" and "Underwear" apart from the mark as shown in the drawing.
Particular description of goods.—Ladies' and Misses' Muslin and Silk Underwear.
Claims use since July 12, 1923.

Ser. No. 184,287. (CLASS 39. CLOTHING.) S. LIEBOVITZ & SONS, INC., New York, N. Y. Filed Aug. 10, 1923.

Suzanne

Particular description of goods.—Dress, Negligee, or Work Shirts.
Claims use since July 1, 1908.

Ser. No. 184,332. (CLASS 17. TOBACCO PRODUCTS.) GENERAL TOBACCO COMPANY, Louisville, Ky., and Chicago, Ill. Filed Aug. 11, 1923.

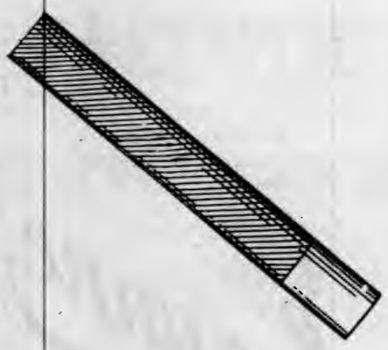


No claim is made to the representation of the cigarette apart from the mark as shown. The mark consists in a wrapper colored, respectively, mottled light tan and silver, as indicated on the drawing.

Particular description of goods.—Cigarettes, Cigars, and Smoking Tobacco.

Claims use since Nov. 15, 1922.

Ser. No. 184,333. (CLASS 17. TOBACCO PRODUCTS.) GENERAL TOBACCO COMPANY, Louisville, Ky., and Chicago, Ill. Filed Aug. 11, 1923.

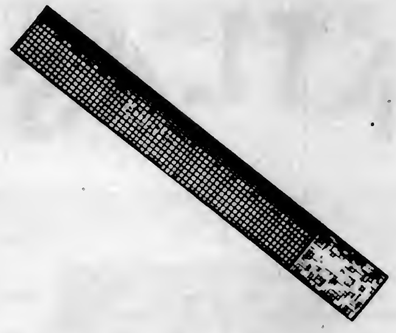


No claim is made to the representation of a cigarette apart from the mark as shown. The mark consists in a wrapper colored, respectively, brown and silver, as indicated by the color lining of the drawing.

Particular description of goods.—Cigarettes, Cigars, and Smoking Tobacco.

Claims use since Nov. 15, 1922.

Ser. No. 184,335. (CLASS 17. TOBACCO PRODUCTS.) GENERAL TOBACCO COMPANY, Louisville, Ky., and Chicago, Ill. Filed Aug. 11, 1923.



No claim is made to the representation of a cigarette apart from the mark as shown. The mark consists in a wrapper colored, respectively, black and gold, as indicated by the color lining on the drawing.

Particular description of goods.—Cigarettes, Cigars, and Smoking Tobacco.

Claims use since Nov. 15, 1922.

Ser. No. 184,346. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MORROW MANUFACTURING CO., Wellston, Ohio. Filed Aug. 11, 1923.

MORROW JUNIOR

Particular description of goods.—Shaking Screens.

Claims use since June 1, 1922.

Ser. No. 184,400. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GREENE, TWEED & CO., New York, N. Y. Filed Aug. 13, 1923.

FAVORITE

Particular description of goods.—Wrenches and Parts Thereof.

Claims use since July, 1894.

Ser. No. 184,568. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. STEIN & COMPANY, New York, N. Y. Filed Aug. 16, 1923.

Craigmoor Coatings

The drawing is lined for purposes of shading only. No claim is made to the use of the term "Coatings" separate and apart from the mark as shown.

Particular description of goods.—Woolen Piece Goods Intended for Women's Coats, Capes, Cloaks, Etc.

Claims use since July 1, 1923.

Ser. No. 184,580. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE BACON BANJO CO. INC., Groton, Conn. Filed Aug. 17, 1923.

Silver Bell

Particular description of goods.—Banjos.

Claims use since Apr. 2, 1923.

Ser. No. 184,599. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. G. COYKENDALL, doing business as Coykendall, Inc., San Francisco, Calif. Filed Aug. 17, 1923.

RIDGECREST

Particular description of goods.—Dried Fruits.

Claims use since June 1, 1923.

Ser. No. 184,650. (CLASS 45. BEVERAGES, NONALCOHOLIC.) LEON COHEN, doing business as United Extract Company, Philadelphia, Pa. Filed Aug. 18, 1923.

SUNMASHT

Particular description of goods.—Nonalcoholic, Maltless Beverages with Fruit Flavors, Ginger Ale, Cream Soda, and Root Beer.

Claims use since about Feb. 1, 1922.

Ser. No. 184,700. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MORRIS VICTORSOHN, New York, N. Y. Filed Aug. 18, 1923.

"Bettertone"

Particular description of goods.—Lever-Operated Motors.

Claims use since May 1, 1923.

Ser. No. 184,710. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) JOHN A. CALLEGARI, doing business as Callegari Products Co., Chicago, Ill. Filed Aug. 20, 1923.

LUNA

Particular description of goods.—Malt Extract and Sirup.

Claims use since January, 1921.

Ser. No. 184,748. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE NEW HAVEN CLOCK CO., New Haven, Conn. Filed Aug. 20, 1923.

Tell-Tale

Particular description of goods.—Clocks.

Claims use since July 6, 1923.

Ser. No. 184,749. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE NEW HAVEN CLOCK CO., New Haven, Conn. Filed Aug. 20, 1923.

Tick-Tock

Particular description of goods.—Clocks.

Claims use since Aug. 14, 1923.

Ser. No. 184,750. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE NEW HAVEN CLOCK CO., New Haven, Conn. Filed Aug. 20, 1923.

Tip-Top

Particular description of goods.—Clocks.

Claims use since Aug. 13, 1923.

Ser. No. 184,751. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE NEW HAVEN CLOCK CO., New Haven, Conn. Filed Aug. 20, 1923.

Ti-Tan

Particular description of goods.—Clocks.

Claims use since July 10, 1923.

Ser. No. 184,851. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE GRIN CO., INC., Los Angeles, Calif. Filed Aug. 22, 1923.



Particular description of goods.—Automobile-Top Dressing, Leather Dressing, Soaps, Neat's-Foot Oil.
Claims use since Dec. 30, 1922.

Ser. No. 184,914. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) LOUIS KNELL, doing business as Armored Trunk Mfg. Co., Youngstown, Ohio. Filed Aug. 23, 1923.



The words "Armored Trunks" are not claimed apart from the other features of the mark.
Particular description of goods.—Trunks.
Claims use since May 1, 1923.

Ser. No. 184,920. (CLASS 33. GLASSWARE.) SEMON BACHE & COMPANY, New York, N. Y. Filed Aug. 23, 1923.

Neutralite

Particular description of goods.—Colored Glass.
Claims use since about June 1, 1923.

Ser. No. 184,929. (CLASS 15. OILS AND GREASES.) THE BATTENFELD GREASE & OIL COMPANY, Kansas City, Mo. Filed Aug. 24, 1923.

Bat's

Particular description of goods.—Lubricating Grease.
Claims use since Mar. 15, 1921.

Ser. No. 184,959. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. COHEN & SON, Philadelphia, Pa. Filed Aug. 25, 1923.

INDO

Particular description of goods.—Woven Jute Floor Rugs.
Claims use since Aug. 1, 1923.

Ser. No. 184,972. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ALBERT A. JULIN, doing business as Julin Importing Company, Chicago, Ill. Filed Aug. 25, 1923.

Lolita

Particular description of goods.—Hair Nets.
Claims use since Aug. 17, 1923.

Ser. No. 185,006. (CLASS 11. INKS AND INKING MATERIALS.) THE COLUMBIA CARBON COMPANY, Dayton, Ohio. Filed Aug. 27, 1923.

SILKLOTH

Particular description of goods.—Inked Ribbons.
Claims use since Feb. 1, 1923.

Ser. No. 185,031. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MARSHALL-WELLS COMPANY, Duluth, Minn. Filed Aug. 27, 1923.



Particular description of goods.—Varnish and Varnish-Stain Products.
Claims use since about July 1, 1923.

Ser. No. 185,085. (CLASS 39. CLOTHING.) LINDER BROS., New York, N. Y. Filed Aug. 28, 1923.

Glenmoor

Particular description of goods.—Women's, Misses', and Children's Cloaks, Coats, Suits, Dresses, and Skirts.
Claims use since September, 1922.

Ser. No. 185,197. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BARBE-MCKENZIE CORPORATION, New York, N. Y. Filed Aug. 31, 1923.

Barmac

Particular description of goods.—Woven, Printed, and Dyed Drapery Fabrics.
Claims use since June 1, 1923.

Ser. No. 185,254. (CLASS 27. HOROLOGICAL INSTRUMENTS.) MENDEL LEVITZ, doing business as M. Levitz & Co., Albany, N. Y. Filed Sept. 1, 1923.

LEVCO

Particular description of goods.—Watch Movements and Watchcases.
Claims use since on or about Feb. 1, 1923.

Ser. No. 185,324. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOSEPH A. TURGEON, Providence, R. I. Filed Sept. 4, 1923.

J.A.T.

Particular description of goods.—Tool Handles.
Claims use since Aug. 1, 1923.

Ser. No. 185,332. (CLASS 37. PAPER AND STATIONERY.) ESLEECK MANUFACTURING CO., Turners Falls, Mass. Filed Sept. 5, 1923.

VERILITE

Particular description of goods.—Manifold Paper.
Claims use since Aug. 22, 1923.

Ser. No. 185,382. (CLASS 39. CLOTHING.) LOUIS SCHWARTZ, doing business as Z. & S. Middy Company, New York, N. Y. Filed Sept. 6, 1923.

JUMP-IN-ALLS

Particular description of goods.—Boys' and Girls' Play Suits.
Claims use since June 9, 1923.

Ser. No. 185,389. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AUGUST THOMSEN & CO., Ridgewood, New York, N. Y. Filed Sept. 6, 1923.

Ateco

Particular description of goods.—Cake-Ornamenting Tubes, Tin Pastry Tubes, Ornamenting Syringes, Cake-Ornamenting Sets, Cream-Roll Sticks, and Mincing Knives.
Claims use since June 1, 1916.

Ser. No. 185,445. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CENTRAL SCIENTIFIC COMPANY, Chicago, Ill. Filed Sept. 7, 1923.

CENCO

Particular description of goods.—Pumps, Both Reciprocating and Rotary, Both for Liquids and Gases; Blowers, Water Motors, and Friction-Gear Driving Mechanism.
Claims use since 1909.

Ser. No. 185,446. (CLASS 37. PAPER AND STATIONERY.) CENTRAL SCIENTIFIC COMPANY, Chicago, Ill. Filed Sept. 7, 1923.

CENCO

Particular description of goods.—Filter Paper.
Claims use since July, 1922.

Ser. No. 185,448. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) CENTRAL SCIENTIFIC COMPANY, Chicago, Ill. Filed Sept. 7, 1923.

HYVAC

Particular description of goods.—Vacuum Pumps.
Claims use since March, 1921.

Ser. No. 185,512. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DOMESTIC DEVICES CORPORATION, New York, N. Y. Filed Sept. 8, 1923.

EVER EDGE

Particular description of goods.—Machines for Grinding Scissors, Knives, Razors, and Other Blades.
Claims use since July 2, 1923.

Ser. No. 185,613. (CLASS 27. HOROLOGICAL INSTRUMENTS.) PHINNEY-WALKER COMPANY, New York, N. Y. Filed Sept. 10, 1923.

BROADWAY

Particular description of goods.—Clocks.
Claims use since Jan. 1, 1922.

Ser. No. 185,614. (CLASS 27. HOROLOGICAL INSTRUMENTS.) PHINNEY-WALKER COMPANY, New York, N. Y. Filed Sept. 10, 1923.

Frisco

Particular description of goods.—Clocks.
Claims use since Jan. 1, 1922.

Ser. No. 185,635. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNION SPECIAL MACHINE COMPANY, Chicago, Ill. Filed Sept. 10, 1923.

124

Particular description of goods.—Sewing-Machine Needles.
Claims use since Jan. 1, 1919.

Ser. No. 185,642. (CLASS 43. THREAD AND YARN.) WORCESTER BLEACH & DYE WORKS CO., Worcester, Mass. Filed Sept. 10, 1923.

Silkslip

Particular description of goods.—Cotton Glazed Braider Thread.
Claims use since July 1, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

OCTOBER 30, 1923.

174,932. GLASSWARE, AND PARTICULARLY GAUGE GLASS. THE LIBBEY GLASS MANUFACTURING CO., Toledo, Ohio.
Filed November 10, 1922. Serial No. 171,807. PUBLISHED JULY 24, 1923.

174,933. CERTAIN NAMED NOTIONS. THE WILLIAM PRYM COMPANY, LIMITED, Stolberg, Germany.
Filed June 3, 1921. Serial No. 148,615. PUBLISHED JULY 17, 1923.

174,934. HÆMOSTATIC PREPARATIONS. VALENTINO BALDACCI, doing business as Laboratorio Chimico Farmaceutico V. Baldacci, Pisa, Italy.
Filed October 18, 1922. Serial No. 170,888. PUBLISHED JULY 24, 1923.

174,935. LOTION FOR THE SKIN. FLORA HOLMES SHOEMAKER, doing business as The Frostilia Company, Elmira, N. Y.
Filed December 16, 1922. Serial No. 173,445. PUBLISHED JULY 24, 1923.

174,936. CLEANSER FOR FALSE TEETH. THE SAN-O-DENT COMPANY, Spokane, Wash.
Filed January 20, 1923. Serial No. 174,865. PUBLISHED JULY 24, 1923.

174,937. CERTAIN TABLE AND BED LINEN, HANDKERCHIEFS, LACE TRIMMINGS, AND RIBBONS. GRANDS MAISON DE BLANC, INC., New York, N. Y.
Filed January 26, 1923. Serial No. 175,142. PUBLISHED JUNE 5, 1923.

174,938. LOTION TO KEEP THE SKIN SOFT AND FOR ALLEVIATION OF INFLAMMATIONS. WILLIAM P. HAYHURST, Santa Rosa, Calif.
Filed January 30, 1923. Serial No. 175,311. PUBLISHED JULY 24, 1923.

174,939. FACE POWDER, HAIR STRAIGHTENER, MEDICINE FOR WORMS, LIVER AND KIDNEY REGULATOR, AND LINIMENT. INDIAN STAR CHEMICAL CO., Jericho, Ark.
Filed January 31, 1923. Serial No. 175,356. PUBLISHED JULY 24, 1923.

174,940. GAME KNOWN AS "SPEDEM," A TABLE GAME PLAYED WITH PIECES AND MARKED CUBES OR ROTARY COUNTER. ALDERMAN. FAIRCHILD CO., Rochester, N. Y.
Filed April 2, 1923. Serial No. 178,423. PUBLISHED JULY 17, 1923.

174,941. BATTERY SOLUTION. CAMEL CHEMICAL CO. INC., Portland, Oreg.
Filed April 9, 1923. Serial No. 178,821. PUBLISHED JULY 24, 1923.

174,942. BATTERY SOLUTION. CAMEL CHEMICAL CO. INC., Portland, Oreg.
Filed April 9, 1923. Serial No. 178,822. PUBLISHED JULY 24, 1923.

174,943. A CERTAIN NAMED MEDICINAL PREPARATION. HAROLD C. FLEMING, also doing business as Compyrin Laboratories, Cedar Rapids, Iowa.
Filed April 9, 1923. Serial No. 178,834. PUBLISHED JULY 24, 1923.

174,944. MEDICATED PREPARATION FOR HUMAN USE FOR LIVER AILMENTS. SCOTT AND TURNER, LIMITED, Newcastle-on-Tyne, England.
Filed April 9, 1923. Serial No. 178,874. PUBLISHED JULY 24, 1923.

174,945. REDUCING CREAM. CAMILLA PREPARATIONS, INC., New York, N. Y.
Filed April 10, 1923. Serial No. 178,893. PUBLISHED JULY 24, 1923.

174,946. SWEET PICKLES. FA-MO COMPANY, Memphis, Tenn.
Filed July 20, 1922. Serial No. 167,592. PUBLISHED AUGUST 14, 1923.

174,947. WINDSHIELD VISORS FOR AUTOMOBILES. GRIGSBY-GRUNOW-HINDS CO., Chicago, Ill.
Filed July 26, 1922. Serial No. 167,391. PUBLISHED AUGUST 14, 1923.

174,948. WINDSHIELD VISORS FOR AUTOMOBILES. GRIGSBY-GRUNOW-HINDS CO., Chicago, Ill.
Filed July 26, 1922. Serial No. 167,390. PUBLISHED AUGUST 14, 1923.

174,949. CHILDREN'S HANDKERCHIEFS. THE ACHESON HARDEN CO., New York, N. Y.
Filed July 22, 1922. Serial No. 167,216. PUBLISHED AUGUST 14, 1923.

174,950. WILTON AND PLUSH CARPETS. M. J. WHITTALL ASSOCIATES, Worcester, Mass.
Filed July 18, 1922. Serial No. 167,065. PUBLISHED AUGUST 14, 1923.

174,951. ALIMENTARY PASTES. LA CIE. C. H. CATELLI, LIMITÉE, Montreal, Quebec, Canada.
Filed July 1, 1922. Serial No. 166,348. PUBLISHED AUGUST 14, 1923.

174,952. PISTON OR PACKING RINGS. UNICO MOTOR PRODUCTS CORPORATION, St. Louis, Mo.
Filed June 30, 1922. Serial No. 166,332. PUBLISHED AUGUST 14, 1923.

174,953. CLOTH POLISHING WHEELS. A. P. MUNNING & Co., Matawan, N. J.
Filed June 28, 1922. Serial No. 166,192. PUBLISHED AUGUST 7, 1923.

174,954. CERTAIN VEHICLES AND PARTS THEREOF. MANNESMANNRÖHREN-WERKE, Dusseldorf, Germany.
Filed May 11, 1922. Serial No. 163,691. PUBLISHED AUGUST 14, 1923.

174,955. FURS AND PELTS. ATTILIO PIERINI, New York, N. Y.
Filed May 1, 1922. Serial No. 163,173. PUBLISHED AUGUST 7, 1923.

174,956. LIFT JACK. THE MEDINA MANUFACTURING CO., Medina, Ohio.
Filed May 1, 1922. Serial No. 163,166. PUBLISHED AUGUST 14, 1923.

174,957. KNITTED ELASTIC FABRIC IN THE PIECE. JAMES R. KENDRICK CO. INC., Philadelphia, Pa.
Filed April 21, 1922. Serial No. 162,678. PUBLISHED AUGUST 7, 1923.

174,958. PHOTOGRAPHS. J. F. WIGGIN, doing business as Kyograph Photo System, New York, N. Y.
Filed April 11, 1922. Serial No. 162,154. PUBLISHED AUGUST 7, 1923.

174,959. PORCH FURNITURE—NAMELY, SETTEES, CHAIRS AND ROCKERS, AND CHAIRS FOR CHILDREN'S USE. APPLETON TOY & FURNITURE CO., Appleton, Wis.
Filed March 29, 1922. Serial No. 161,403. PUBLISHED AUGUST 7, 1923.

174,960. SCREWDRIVERS, WRENCHES, AND WRENCH SETS. VIKING SPECIALTY COMPANY, Worcester, Mass.
Filed March 11, 1922. Serial No. 160,570. PUBLISHED AUGUST 7, 1923.

174,961. HOUSEHOLD FURNITURE COMPRISING TABLES, SIDE CHAIRS, AND ARMCHAIRS. R. H. MACY & Co., INC., New York, N. Y.
Filed March 7, 1922. Serial No. 160,296. PUBLISHED AUGUST 7, 1923.

174,962. RAG FIBER AND ASPHALT ROOFING. ORIENTEL ROOFING MANUFACTURING COMPANY, now by change of name, Stormcote Roofing Corporation, East St. Louis, Ill.
Filed March 3, 1922. Serial No. 160,149. PUBLISHED AUGUST 7, 1923.

174,963. OILS AND GREASES USED FOR LUBRICATING PURPOSES. EDWARD A. REICHEL CO., Milwaukee, Wis.
Filed February 27, 1922. Serial No. 159,885. PUBLISHED AUGUST 7, 1923.

174,964. BRASSIÈRES. CHAS. R. DE BEVOISE CO., Newark, N. J.
Filed February 18, 1922. Serial No. 159,503. PUBLISHED AUGUST 7, 1923.

174,965. SUN VISORS. WILLIAM MODRA, doing business as Laclede Brass Works, St. Louis, Mo.
Filed July 31, 1922. Serial No. 167,645. PUBLISHED AUGUST 7, 1923.

174,966. BRASSIÈRES. CHAS. R. DE BEVOISE CO., Newark, N. J.
Filed February 18, 1922. Serial No. 159,502. PUBLISHED AUGUST 7, 1923.

174,967. PISTON PACKING RINGS. JOHN F. JONES, Pomona, Calif.
Filed February 6, 1922. Serial No. 158,929. PUBLISHED JULY 31, 1923.

174,968. LEAD, ZINC, COPPER, GOLD, SILVER, ANTIMONY, AND IRON. THE CONSOLIDATED MINING AND SMELTING COMPANY OF CANADA, LIMITED, Trail, British Columbia, Canada.
Filed January 25, 1922. Serial No. 158,417. PUBLISHED AUGUST 7, 1923.

174,969. COATED ICE-CREAM PRODUCTS—NAMELY, CHOCOLATE-COATED ICE-CREAM ROLLS. JOHN E. ZANGMASTER, Columbus, Ohio.
Filed January 23, 1922. Serial No. 158,352. PUBLISHED AUGUST 14, 1923.

174,970. RAZOR-BLADE-STROPPING HOLDERS. KWIK-EGE STROPPER CO., (NOT INC.), Chicago, Ill.
Filed January 19, 1922. Serial No. 158,129. PUBLISHED AUGUST 14, 1923.

174,971. CITRUS FRUITS IN THEIR NATURAL STATE—NAMELY, GRAPEFRUIT, ORANGES, TANGERINES, LEMONS, LIMES, KUMQUATS, ALLIGATOR PEARS, AND GRAPES. STAMBAUGH & RAMP, Akron, Ohio, and Auburndale, Fla.
Filed January 7, 1922. Serial No. 157,637. PUBLISHED AUGUST 7, 1923.

174,972. SODA STRAWS OR ARTIFICIAL DRINKING STRAWS. NEW JERSEY PAPER TUBE COMPANY, Englewood, N. J.
Filed December 10, 1921. Serial No. 156,542. PUBLISHED AUGUST 14, 1923.

174,973. SANITARY NAPKINS AND APRONS. SAUL E. FRANKFURT, Cleveland, Ohio.
Filed November 25, 1921. Serial No. 155,878. PUBLISHED AUGUST 14, 1923.

174,974. HAIR NETS. WALKER WEBBING CO., Providence, R. I.
Filed November 21, 1921. Serial No. 155,725. PUBLISHED AUGUST 7, 1923.

174,975. GEARS AND GEAR BLANKS. THE WILLIAM CRAMP & SONS SHIP & ENGINE BUILDING CO., Philadelphia, Pa.
Filed November 3, 1921. Serial No. 154,962. PUBLISHED AUGUST 14, 1923.

174,976. CRANES. THE JOHN F. BYERS MACHINE COMPANY, Ravenna, Ohio.
Filed August 16, 1921. Serial No. 151,823. PUBLISHED AUGUST 14, 1923.

174,977. CHEESECLOTH, CRINOLINE, AND BUNTING IN THE PIECE. LEWIS MANUFACTURING COMPANY, Walpole, Mass.
Filed July 13, 1921. Serial No. 150,319. PUBLISHED AUGUST 7, 1923.

174,978. METAL RODS, BARS, STIRRUPS, HOOPS, SPIRALS, FRAMES, AND MESHWORK FOR REENFORCING CONCRETE, AND FASTENERS AND SPACING DEVICES USED THEREWITH, AND METALLIC LATHING AND STUDDING. CORRUGATED BAR COMPANY, INC., Buffalo, N. Y.
Filed June 4, 1921. Serial No. 148,647. PUBLISHED AUGUST 14, 1923.

174,979. ELECTRIC ALARM AND SIGNAL DEVICES FOR USE UPON AUTOMOBILES AND MOTOR TRUCKS. WILLIAM J. WILLIAMS, Chicago, Ill., assignor to The Helsbels Company, Chicago, Ill., a Trust Estate.
Filed May 31, 1921. Serial No. 148,469. PUBLISHED FEBRUARY 20, 1923.

174,980. SWING COUCH HAMMOCKS. HARRY E. BURROUGHS, Boston, Mass.
Filed February 14, 1921. Serial No. 143,533. PUBLISHED AUGUST 7, 1923.

174,981. PAINTS AND PAINTERS' MATERIALS. MATTHEW F. KELLER, doing business as Springfield Paint & Varnish Co., Springfield, Ohio.
Filed September 23, 1920. Serial No. 137,528. PUBLISHED AUGUST 14, 1923.

174,982. CYCLES, MOTOR CYCLES, AUTOMOBILES, AEROPLANES, AND CARRIAGES. ARIEL WORKS LTD., Birmingham, England.
Filed September 16, 1920. Serial No. 137,252. PUBLISHED AUGUST 14, 1923.

174,983. MATTRESSES, PILLOWS, BOLSTERS, AND CUSHIONS WHICH ARE FILLED WITH A SOFT FILLING MATERIAL. THE ROBINSON-RODGERS CO., INC., Newark, N. J.
Filed August 28, 1920. Serial No. 136,603. PUBLISHED AUGUST 7, 1923.

174,984. COMPRESSION BIB, STOPCOCKS AND STOP AND WASTE COCKS, AND METAL PIPE UNIONS. FORD & KENDIG CO., Philadelphia, Pa.
Filed March 12, 1920. Serial No. 129,592. PUBLISHED AUGUST 7, 1923.

174,985. WOVEN COTTON FABRICS IN THE PIECE. GEORGE ALBERT STAFFORD, doing business as G. A. Stafford & Company, New York, N. Y.
Filed October 31, 1919. Serial No. 124,422. PUBLISHED AUGUST 14, 1923.

174,986. CORSETS, WAIST CORSETS, CORSET WAISTS, BRASSIÈRES; LADIES' UNDERWEAR—NAMELY, CAMISOLES, LADIES' VESTS, CHEMISES, BLOOMERS, STEP-INS, PETTICOATS, AND LADIES' DRESSES. CHARLES MUNTER, New York, N. Y.
Filed January 17, 1923. Serial No. 174,701. PUBLISHED AUGUST 14, 1923.

174,987. MEN'S AND BOYS' SUITS, OVERCOATS, AND HATS. L. KLEIN, INC., Chicago, Ill.
Filed January 8, 1923. Serial No. 174,309. PUBLISHED JULY 17, 1923.

174,988. PISTONS. MAXWELL MOTOR CORPORATION, Detroit, Mich.
Filed January 5, 1923. Serial No. 174,212. PUBLISHED AUGUST 7, 1923.

174,989. LADIES' DRESSES, COATS, AND SUITS. SAMUEL KLEIN, New York, N. Y.
Filed January 2, 1923. Serial No. 174,081. PUBLISHED AUGUST 7, 1923.

174,990. PREPARATION FOR CLEANSING AND POLISHING BATHTUBS, WASHSTANDS, ETC. KEMOSHYNE PRODUCTS, INC., Camden, N. J.
Filed December 26, 1922. Serial No. 173,888. PUBLISHED AUGUST 7, 1923.

174,991. FISHING TACKLE. HORROCKS-IBBOTSON CO., Utica, N. Y.
Filed December 20, 1922. Serial No. 173,602. PUBLISHED AUGUST 7, 1923.

174,992. CERTAIN NAMED FILING CABINETS AND OFFICE FURNITURE. LEVEY PAINTING COMPANY, Indianapolis, Ind.
Filed December 18, 1922. Serial No. 173,510. PUBLISHED AUGUST 7, 1923.

174,993. SAND-BLAST APPARATUS AND PARTS THEREOF AND ACCESSORIES THEREFOR. HOBVEL MANUFACTURING CORPORATION, Jersey City, N. J.
Filed December 13, 1922. Serial No. 173,284. PUBLISHED AUGUST 7, 1923.

174,994. CERTAIN NAMED CLOTHING. HERMAN SCHNEIDER, Mount Vernon, New Rochelle, and White Plains, N. Y., and Stamford, Conn.
Filed December 5, 1922. Serial No. 172,960. PUBLISHED AUGUST 7, 1923.

174,995. HOSIERY. EWALD GROBEL, Philadelphia, Pa.
Filed December 4, 1922. Serial No. 172,876. PUBLISHED AUGUST 7, 1923.

174,996. KNITTED SWEATERS, MUFFLERS, GOLF HOSE, AND BATHING SUITS. JACOB FORSTADT, doing business as Apaca Knitting Mills, Philadelphia, Pa.
Filed December 2, 1922. Serial No. 172,831. PUBLISHED AUGUST 7, 1923.

174,997. PICKLES AND CANNED VEGETABLES. AMERICAN PICKLE & CANNING COMPANY, Hattiesburg, Miss.
Filed December 1, 1922. Serial No. 172,715. PUBLISHED AUGUST 14, 1923.

174,998. CERTAIN NAMED WEARING APPAREL. B. B. & R. KNIGHT, INC., Providence, R. I., and New York, N. Y.
Filed November 29, 1922. Serial No. 172,682. PUBLISHED AUGUST 7, 1923.

174,999. LADIES' HATS, CAPS, AND WAISTS. SAMUEL A. FRIEDMAN, Schenectady, N. Y.
Filed November 29, 1922. Serial No. 172,669. PUBLISHED AUGUST 7, 1923.

175,000. TROUSERS, OVERALLS, DRESS, NEGLIGEE, AND WORK SHIRTS. LEE BROTHERS COMPANY, San Antonio, Tex.
Filed November 27, 1922. Serial No. 172,603. PUBLISHED AUGUST 7, 1923.

175,001. RADIATOR CAPS. THE HELMET CAP COMPANY, INC., New York, N. Y.
Filed November 25, 1922. Serial No. 172,532. PUBLISHED AUGUST 14, 1923.

175,002. HOSIERY. E. M. TOWNSEND & Co., New York, N. Y.
Filed November 16, 1922. Serial No. 172,182. PUBLISHED AUGUST 7, 1923.

175,003. MATCHES. OSAKEYHTIO SAVO, LTD., Kuopio, Finland.
Filed November 11, 1922. Serial No. 171,864. PUBLISHED AUGUST 14, 1923.

175,004. HARDWOOD PITCH. THE RUBBER SERVICE LABORATORIES COMPANY, Akron, Ohio.
Filed November 1, 1922. Serial No. 171,471. PUBLISHED AUGUST 14, 1923.

175,005. LADDERS AND STEP STOOLS. THE GOSHEN CHURN & LADDER COMPANY, Goshen, Ind.
Filed October 28, 1922. Serial No. 171,314. PUBLISHED AUGUST 7, 1923.

175,006. AUTOMOBILES AND AUTOMOBILE CHASSIS. ALEXANDRE FAURE, New York, N. Y.
Filed March 28, 1923. Serial No. 178,170. PUBLISHED AUGUST 7, 1923.

175,007. LACES, EMBROIDERIES, HANDKERCHIEFS, AND COTTON AND SILK GOODS. MORISSE LACE & EMBROIDERY CO., St. Louis, Mo.
Filed March 24, 1923. Serial No. 177,986. PUBLISHED AUGUST 7, 1923.

175,008. CANDY. B. L. JOHNSON & Co., INC., Knoxville, Tenn.
Filed March 24, 1923. Serial No. 177,975. PUBLISHED AUGUST 14, 1923.

175,009. CANDY. HAWLEY & HOOPS, New York, N. Y.
Filed March 24, 1923. Serial No. 177,971. PUBLISHED AUGUST 14, 1923.

175,010. CASTOR-OIL COMPOUND. GEORGE B. TULLIDGE, Philadelphia, Pa.
Filed March 23, 1923. Serial No. 177,931. PUBLISHED AUGUST 7, 1923.

175,011. PERSPIRATION DEODORANT. JEAN JORDEAU, INC., South Orange, N. J., and New York, N. Y.
Filed March 20, 1923. Serial No. 177,742. PUBLISHED AUGUST 7, 1923.

175,012. HAIR TONIC AND PRESERVATIVE. DE VITO SALVO HAIR TONIC CO., INC., New York, N. Y.
Filed March 22, 1923. Serial No. 177,833. PUBLISHED AUGUST 7, 1923.

175,013. CEMENT PREPARATION USED AS A SUBSTITUTE FOR GLUE OR OTHER ADHESIVE. THE FLEXUM PRODUCTS COMPANY, Denver, Colo.
Filed March 17, 1923. Serial No. 177,600. PUBLISHED AUGUST 14, 1923.

175,014. CHILDREN'S HAND BAGS. HERZ & KORY, New York, N. Y.
Filed March 16, 1923. Serial No. 177,557. PUBLISHED AUGUST 14, 1923.

175,015. LINEN, RAMIE, AND HEMP PIECE GOODS AND MIXTURES OF THE SAME. MONTGOMERY L. HART, INC., New York, N. Y.
Filed March 15, 1923. Serial No. 177,488. PUBLISHED AUGUST 7, 1923.

175,016. PREPARATION FOR REMOVING STAINS AND DIRT FROM ALL KINDS OF FABRICS, METALS, AND WOOD. LEVI W. FOUNTAIN, Philadelphia, Pa.
Filed March 15, 1923. Serial No. 177,479. PUBLISHED AUGUST 7, 1923.

175,017. LOCK NUTS, BOLTS, RIVETS, SCREWS. BOSS NUT COMPANY, Chicago, Ill.
Filed March 13, 1923. Serial No. 177,355. PUBLISHED AUGUST 7, 1923.

175,018. SOAP AND SOAP PRODUCTS. BONDED PRODUCTS CORPORATION, New York, N. Y.
Filed March 13, 1923. Serial No. 177,354. PUBLISHED AUGUST 7, 1923.

175,019. TAXICABS. BARLEY MOTOR CAR COMPANY, Kalamazoo, Mich.
Filed March 13, 1923. Serial No. 177,349. PUBLISHED AUGUST 14, 1923.

175,020. LACE CURTAINS AND NETS OR CURTAIN LACE IN PIECE. QUAKER LACE COMPANY, Philadelphia, Pa.
Filed March 12, 1923. Serial No. 177,326. PUBLISHED AUGUST 7, 1923.

175,021. ENGINE PUSH POLES. MUMMERT LUMBER & TIE CO., Chicago, Ill.
Filed March 12, 1923. Serial No. 177,315. PUBLISHED AUGUST 14, 1923.

175,022. CORSETS, CORSET WAISTS, BRASSIÈRES, BANDEAUX, GIRDLES, DIAPHRAGM CONFINERS, BELTS FOR PERSONAL WEAR, CORSET COVERS, CAMISOLES, AND LADIES' VESTS. FROLASET CORSET CO., Detroit, Mich.
Filed March 12, 1923. Serial No. 177,291. PUBLISHED AUGUST 14, 1923.

175,023. TIES, CRAVATS, FOUR-IN-HAND TIES, AND BOW TIES. FRIEDMAN BROS. & SON NECKWEAR CO. INC., New York, N. Y.
Filed March 12, 1923. Serial No. 177,290. PUBLISHED AUGUST 7, 1923.

175,024. CERTAIN NAMED HARDWARE. ANACONDA COPPER MINING COMPANY, New York, N. Y.
Filed March 10, 1923. Serial No. 177,210. PUBLISHED AUGUST 7, 1923.

175,025. FINISHED COMMUTATOR SEGMENTS, COPPER BARS AND STRIPS FOR ELECTRICAL PURPOSES, AND INSULATED COPPER WIRE. ANACONDA COPPER MINING COMPANY, New York, N. Y.
Filed March 10, 1923. Serial No. 177,209. PUBLISHED JUNE 5, 1923.

175,026. VEGETABLE CRUTCH. THE FROST SUPERIOR FENCE CO., Warren, Ohio.
Filed April 14, 1923. Serial No. 179,143. PUBLISHED AUGUST 14, 1923.

175,027. SENSITIZED PHOTOGRAPHIC PAPER. THE HALOID COMPANY, Rochester, N. Y.
Filed April 13, 1923. Serial No. 179,097. PUBLISHED AUGUST 14, 1923.

175,028. TITLE FOR A NEWSPAPER COLUMN. FREDERIC WILLIAM WILE, Washington, D. C.
Filed April 12, 1923. Serial No. 179,076. PUBLISHED AUGUST 7, 1923.

175,029. STEEL FORGINGS. A. FINKL & SONS COMPANY, Chicago, Ill.
Filed April 12, 1923. Serial No. 179,038. PUBLISHED AUGUST 7, 1923.

175,030. MOTION PICTURES. C. B. C. FILM SALES CORPORATION, New York, N. Y.
Filed April 12, 1923. Serial No. 179,025. PUBLISHED AUGUST 14, 1923.

175,031. MARKERS FOR TOWELS, ETC. ANNA D. Rostow, doing business as The Anita Company, Newark, N. J.
Filed April 11, 1923. Serial No. 179,013. PUBLISHED AUGUST 14, 1923.

175,032. MATCHES. THE DIAMOND MATCH COMPANY, Chicago, Ill.
Filed April 10, 1923. Serial No. 178,914. PUBLISHED AUGUST 14, 1923.

175,033. MANUFACTURED DEVICES COMPRISING FIREPLACE DAMPERS AND OPERATING MEANS THEREFOR, FIREPLACE BASKETS AND GRATES, RUBBISH BURNERS, AND SALAMANDERS. THE DONLEY BROTHERS COMPANY, Cleveland, Ohio.
Filed April 9, 1923. Serial No. 178,828. PUBLISHED AUGUST 7, 1923.

175,034. A COMBINATION OF KNITTED WOOL AND FIBER SILK. VANDEWART COMPANY INCORPORATED, New York, N. Y.
Filed April 7, 1923. Serial No. 178,784. PUBLISHED AUGUST 14, 1923.

175,035. SEEDING IMPLEMENTS, PARTICULARLY GRAIN DRILLS AND BROADCAST SEEDERS. THE AMERICAN SEEDING MACHINE COMPANY, Springfield, Ohio.
Filed April 6, 1923. Serial No. 178,654. PUBLISHED AUGUST 7, 1923.

175,036. CERTAIN NAMED CLOTHING. SOUTHERN CALIFORNIA DRY GOODS COMPANY, Gloversville, N. Y.
Filed April 5, 1923. Serial No. 178,634. PUBLISHED AUGUST 7, 1923.

175,037. LOGS AND ROUGH LUMBER. DUDLEY LUMBER COMPANY INC., Memphis, Tenn.
Filed April 5, 1923. Serial No. 178,598. PUBLISHED JULY 24, 1923.

175,038. CARPENTERS' GAUGES, PLUMB BOBS, LEVELS, AND MEASURING DEVICES. MARSHALL-WELLS COMPANY, Duluth, Minn.
Filed April 3, 1923. Serial No. 178,527. PUBLISHED AUGUST 7, 1923.

175,039. DIESEL MOTORS AND INTERNAL-COMBUSTION ENGINES. AKTIENGESELLSCHAFT FÜR TIEFBOHRTECHNIK UND MASCHINENBAU VORMALS TRAUZL & CO., Vienna, Austria.
Filed April 2, 1923. Serial No. 178,422. PUBLISHED AUGUST 14, 1923.

175,040. ROOF CEMENT. HENRY RUBEN, doing business as To-Rain-On Products Co. (Not Inc.), Chicago, Ill.
Filed March 31, 1923. Serial No. 178,409. PUBLISHED AUGUST 7, 1923.

175,041. FRESH CITROUS FRUITS. ANAHEIM VALENCIA GROWERS ASS'N., Anaheim, Calif.
Filed March 31, 1923. Serial No. 178,370. PUBLISHED AUGUST 7, 1923.

175,042. CAST CHILLED WHEELS, INDUSTRIAL CARS, SHOP CARS, PUSH CARS, METAL CHILL CARS, INGOT CARS, MINE CARS, PLANTATION CARS, QUARRY CARS, DRAFT-EQUIPMENT PARTS, BRAKE-EQUIPMENT PARTS, TRUCK-EQUIPMENT PARTS, AND BODY-EQUIPMENT PARTS THEREFOR. RAMAPO AJAX CORPORATION, New York, N. Y.
Filed March 30, 1923. Serial No. 178,358. PUBLISHED AUGUST 7, 1923.

175,043. MOTION-PICTURE FILMS. NATIONAL SCREEN SERVICE, INC., New York, N. Y.
Filed March 30, 1923. Serial No. 178,353. PUBLISHED AUGUST 14, 1923.

175,044. PREPARATIONS FOR THE TREATMENT OF THE SKIN. J. THAD BRAMBLETT, Pocasset, Okla.
Filed March 30, 1923. Serial No. 178,326. PUBLISHED AUGUST 7, 1923.

175,045. FUR KERCHIEF FOR WOMEN FOR SUMMER WEAR. MYRIAD MANUFACTURING CO., New York, N. Y.
Filed March 29, 1923. Serial No. 178,269. PUBLISHED AUGUST 7, 1923.

175,046. BRICKS. SUMTER BRICK WORKS, Sumter, S. C.
Filed April 24, 1923. Serial No. 179,629. PUBLISHED AUGUST 7, 1923.

175,047. MEN'S AND WOMEN'S WOVEN TEXTILE ATHLETIC UNDERWEAR AND WOMEN'S BLOOMERS. CHARLES E. SHEDAKER & SONS, Philadelphia, Pa.
Filed April 24, 1923. Serial No. 179,627. PUBLISHED AUGUST 14, 1923.

175,048. VEGETABLE-PARING MACHINES. KOOLS MANUFACTURING COMPANY, Appleton, Wis.
Filed April 24, 1923. Serial No. 179,605. PUBLISHED AUGUST 14, 1923.

175,049. CERTAIN NAMED PIECE GOODS. THE BRADFORD DYERS' ASSOCIATION, LIMITED, Bradford, England.
Filed April 24, 1923. Serial No. 179,583. PUBLISHED AUGUST 14, 1923.

175,050. TOY CARS AND TRACKS. THE ADVERTISING AUTO SPEEDWAY CO., Columbus, Ohio.
Filed April 23, 1923. Serial No. 179,506. PUBLISHED AUGUST 7, 1923.

175,051. MOTORIST PUBLICATION, WHICH PUBLICATION IS PUBLISHED ONCE A YEAR. TOURIST HANDBOOK PUBLISHING COMPANY, Ames, Iowa.
Filed April 19, 1923. Serial No. 179,386. PUBLISHED AUGUST 7, 1923.

175,052. STEAM AND INTERNAL-COMBUSTION ENGINES. JOHN I. THORNYCROFT & CO. LIMITED, Westminster and London, England.
Filed April 19, 1923. Serial No. 179,385. PUBLISHED AUGUST 7, 1923.

175,053. COTTON BROADCLOTH. BEAR MILL MANUFACTURING COMPANY, INC., New York, N. Y.
Filed April 19, 1923. Serial No. 179,351. PUBLISHED AUGUST 7, 1923.

175,054. APPARATUS FOR DETERMINING BY ECHO OR RETURN VIBRATION THE DISTANCE BETWEEN TWO OBJECTS. THE WIRELESS SPITZESCOPE CO., San Francisco, Calif.
Filed April 17, 1923. Serial No. 179,290. PUBLISHED AUGUST 14, 1923.

175,055. YARNS FOR ART NEEDLEWORK. BERNARD ULMANN CO. INC., New York, N. Y.
Filed April 17, 1923. Serial No. 179,286. PUBLISHED AUGUST 7, 1923.

175,056. MATCHES. JÖNKÖPINGS OCH VULCANS TÄNDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed April 17, 1923. Serial No. 179,273. PUBLISHED AUGUST 7, 1923.

175,057. CATALOGUE ISSUED MONTHLY. AMERICAN WHOLESALE CORPORATION (BALTIMORE BARGAIN HOUSE), Baltimore, Md.
Filed April 17, 1923. Serial No. 179,256. PUBLISHED AUGUST 7, 1923.

175,058. AUTOMOBILE DOG CARRIER. H. J. GEORGE, Long Beach, Calif.
Filed April 16, 1923. Serial No. 179,195. PUBLISHED AUGUST 7, 1923.

175,059. HAND-OPERATED PORTABLE AND STATIONARY FIRE-EXTINGUISHING APPARATUS. FOAMITE-CHILDS CORPORATION, Wilmington, Del., and Utica, N. Y.
Filed April 16, 1923. Serial No. 179,193. PUBLISHED AUGUST 14, 1923.

175,060. STEEL FORGINGS. A. FINKL & SONS COMPANY, Chicago, Ill.
Filed April 16, 1923. Serial No. 179,189. PUBLISHED AUGUST 7, 1923.

175,061. SILK HOSIERY AND KNITTED OR WOVEN SILK UNDERWEAR. FRANK ROBISON, doing business as All Star Hosiery Co., Birmingham, Ala.
Filed April 14, 1923. Serial No. 179,166. PUBLISHED JULY 10, 1923.

175,062. GREASE CUPS, OIL CUPS, AND LUBRICATORS FOR THE APPLICATION OF LUBRICANTS. KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa.
Filed April 11, 1923. Serial No. 179,005. PUBLISHED AUGUST 14, 1923.

175,063. CERTAIN NAMED TOOLS. THE STANLEY WORKS, New Britain, Conn.
Filed April 20, 1923. Serial No. 179,433. PUBLISHED AUGUST 14, 1923.

175,064. CERTAIN NAMED TOOLS. THE STANLEY WORKS, New Britain, Conn.
Filed April 20, 1923. Serial No. 179,435. PUBLISHED AUGUST 14, 1923.

175,065. MONTHLY MAGAZINE. THE VICKERY & HILL PUB. CO., Augusta, Me.
Filed April 20, 1923. Serial No. 179,440. PUBLISHED AUGUST 7, 1923.

175,066. FURNITURE AND AUTOMOBILE POLISH. A. C. BOYD, doing business as Pine-O Chemical Company, Langdale, Ala.
Filed October 23, 1922. Serial No. 171,062 PUBLISHED AUGUST 14, 1923.

175,067. COOKED AND CANNED FOOD PRODUCTS. COLLEGE INN FOOD PRODUCTS CO., Chicago, Ill.
Filed October 18, 1922. Serial No. 170,865. PUBLISHED AUGUST 14, 1923.

175,068. LADIES' AND MISSES' SILK AND COTTON UNDERWEAR OF TEXTILE FABRIC. JULIUS GARFINKLE, doing business as Julius Garfinkle & Co., Washington, D. C.
Filed October 17, 1922. Serial No. 170,814. PUBLISHED AUGUST 7, 1923.

175,069. LEATHER BELTS FOR MACHINERY. JEWELL BELTING COMPANY, Hartford and West Hartford, Conn.
Filed October 12, 1922. Serial No. 170,650. PUBLISHED AUGUST 7, 1923.

175,070. ATHLETIC SHIRTS, JERSEYS, AND SWEATERS. THE DRAPER-MAYNARD COMPANY, Plymouth, N. H.
Filed October 12, 1922. Serial No. 170,632. PUBLISHED AUGUST 7, 1923.

175,071. CANDY. THE GEORGE CLOSE CO., Cambridge, Mass.
Filed October 11, 1922. Serial No. 170,563. PUBLISHED AUGUST 14, 1923.

175,072. SCOURING SOAP IN CAKE AND POWDERED FORM. THE BON AMI COMPANY, INC., New York, N. Y.
Filed October 11, 1922. Serial No. 170,557. PUBLISHED AUGUST 7, 1923.

175,073. ADHESIVE TAPE. BAKER, HAMILTON AND PACIFIC COMPANY, San Francisco, Calif.
Filed October 6, 1922. Serial No. 170,356. PUBLISHED AUGUST 7, 1923.

175,074. ASPHALT-SATURATED ROOFING FELT, BUILDING PAPER, DEADENING FELT, PREPARED ROOFING, AND ROSIN-SIZED SHEATHING. BAKER, HAMILTON AND PACIFIC COMPANY, San Francisco, Calif.
Filed October 6, 1922. Serial No. 170,353. PUBLISHED AUGUST 7, 1923.

175,075. PADLOCKS AND KEY BLANKS. BAKER, HAMILTON AND PACIFIC COMPANY, San Francisco, Calif.
Filed October 6, 1922. Serial No. 170,351. PUBLISHED AUGUST 7, 1923.

175,076. FRESH DECIDUOUS FRUITS. EARL FRUIT COMPANY, Sacramento, Calif.
Filed September 28, 1922. Serial No. 170,010. PUBLISHED AUGUST 7, 1923.

175,077. FABRICS MADE OF WOOL, SILK, COTTON, AND MIXTURES OF THE SAME. GROPPER KNITTING MILLS, INC., New York, N. Y.
Filed September 22, 1922. Serial No. 169,807. PUBLISHED AUGUST 7, 1923.

175,078. OIL CONDENSERS, HEAT EXCHANGERS, AND DEPHLEGMATORS. C. H. LEACH COMPANY, Boston, Mass.
Filed September 20, 1922. Serial No. 169,720. PUBLISHED AUGUST 7, 1923.

175,079. CANDIES. PEERLESS CONFECTION COMPANY, Chicago, Ill.
Filed September 18, 1922. Serial No. 169,604. PUBLISHED AUGUST 7, 1923.

175,080. SHINGLES, SIDING, AND FINISHING LUMBER. VANCOUVER CEDAR MILLS, LIMITED, Vancouver, British Columbia, Canada, and Chicago, Ill.
Filed September 15, 1922. Serial No. 169,515. PUBLISHED AUGUST 14, 1923.

175,081. BICYCLE TIRES AND AUTOMOBILE TUBES AND CASINGS. SIMMONS HARDWARE COMPANY, St. Louis, Mo.
Filed September 9, 1922. Serial No. 169,259. PUBLISHED AUGUST 14, 1923.

175,082. CYCLES—NAMELY, FOOT-PROPELLED CYCLES KNOWN AS BICYCLES AND MOTOR-PROPELLED CYCLES KNOWN AS MOTOR CYCLES. EMBLEM MANUFACTURING COMPANY, Angola, N. Y.
Filed September 7, 1922. Serial No. 169,161. PUBLISHED AUGUST 7, 1923.

175,082. TEXTILE RUGS AND CARPETS. O. W. RICHARDSON & Co., Chicago, Ill.
Filed August 21, 1922. Serial No. 168,552. PUBLISHED AUGUST 14, 1923.

175,084. VARIOUS COMPLETELY-PRINTED JOBS—SPECIFICALLY, HOUSE ORGANS, CATALOGUES, PRICE LISTS, BROADSIDES, AND LIKE COMMERCIAL PRINTING. THE J. C. HUB MANUFACTURING COMPANY, Cleveland, Ohio.
Filed August 11, 1922. Serial No. 168,111. PUBLISHED AUGUST 7, 1923.

175,085. SPARK ARRESTERS. THE SOUTH BEND SPARK ARRESTER CO., South Bend, Ind.
Filed August 7, 1922. Serial No. 167,900. PUBLISHED AUGUST 14, 1923.

175,086. LIQUID INTEGRAL, A FLUID EMPLOYED IN THE MIXING OF BUILDING MATERIALS TO RENDER THE SAME HARD AND WATERPROOF. ADENSITE CO., INC., New York, N. Y.
Filed May 8, 1923. Serial No. 180,317. PUBLISHED AUGUST 7, 1923.

175,087. COMBINATION OUTER SUITS, KNICKERBOCKERS, COATS, AND CAPS FOR CHILDREN. ZENO COMPANY, INC., New York, N. Y.
Filed May 5, 1923. Serial No. 180,257. PUBLISHED AUGUST 14, 1923.

175,088. OVERALLS, WORK SHIRTS, AND COMBINATION WORK SUITS. THE HAUSER GARRISON DRY GOODS CO., Wichita, Kans.
Filed May 5, 1923. Serial No. 180,215. PUBLISHED AUGUST 14, 1923.

175,089. LAMINATED PHENOLIC CONDENSATION PRODUCT. DIAMOND STATE FIBRE COMPANY, Elsmere, Del., and Bridgeport, Pa.
Filed April 28, 1923. Serial No. 180,163. PUBLISHED AUGUST 7, 1923.

175,090. OFFSET BLANKETS, RUBBER SHEETINGS, SHEET RUBBER, RUBBERIZED PIANO-PLAYER CLOTHS AND RUBBERIZED AUTO TOP FABRICS, AND RUBBERIZED FABRIC OF ANY DESCRIPTION. VULCAN PROOFING COMPANY, Brooklyn, N. Y.
Filed May 3, 1923. Serial No. 180,156. PUBLISHED AUGUST 14, 1923.

175,091. PREPARED CHOCOLATE FOR FOOD AND BEVERAGE PURPOSES. THE EVER READY CHOCOLATE CO., Rochester, N. Y.
Filed May 1, 1923. Serial No. 179,997. PUBLISHED AUGUST 14, 1923.

175,092. AUTOMOBILE BODIES. DIAMOND CAB SALES CORPORATION, New York, N. Y.
Filed May 1, 1923. Serial No. 179,993. PUBLISHED AUGUST 14, 1923.

175,093. CANDY. AUGUST WILLIAMS, Perth Amboy, N. J.
Filed April 30, 1923. Serial No. 179,980. PUBLISHED AUGUST 7, 1923.

175,094. SILK SOFTENER. TAYLORS SILK EMULSION, INC., New York, N. Y.
Filed April 30, 1923. Serial No. 179,973. PUBLISHED AUGUST 7, 1923.

175,095. BUTYL AMINOBENZOATE. ABBOTT LABORATORIES, Chicago, Ill.
Filed April 30, 1923. Serial No. 179,913. PUBLISHED AUGUST 7, 1923.

175,096. PORCH SHADES. CLYDE W. WARREN, doing business as Automatic Curtain Co., Sauk Rapids, Minn.
Filed April 28, 1923. Serial No. 179,904. PUBLISHED AUGUST 7, 1923.

175,097. CERTAIN NAMED LACINGS AND BRAIDS. UNITED LACE & BRAID MFG. CO., Cranston, R. I.
Filed April 28, 1923. Serial No. 179,897. PUBLISHED AUGUST 7, 1923.

175,098. COTTON AND COTTON AND SILK MIXTURE PIECE GOODS. COHN HALL MARX CO., New York, N. Y.
Filed April 26, 1923. Serial No. 179,853. PUBLISHED AUGUST 7, 1923.

175,099. NAILS. UNITED SHOE MACHINERY CORPORATION, Paterson, N. J., and Boston, Mass.
Filed April 26, 1923. Serial No. 179,755. PUBLISHED AUGUST 7, 1923.

175,100. MEDICINAL PREPARATION FOR EXTERNAL APPLICATION. JOSEPH M. POTTGIESSER, Ocean Park, Calif.
Filed April 26, 1923. Serial No. 179,740. PUBLISHED AUGUST 7, 1923.

175,101. BRAIDING AND WEAVING MACHINES. AMERICAN WIREMOLD COMPANY, Hartford, Conn.
Filed April 26, 1923. Serial No. 179,703. PUBLISHED AUGUST 7, 1923.

175,102. MEDICINAL PREPARATION INDICATED IN CHRONIC INFLAMMATIONS OF THE MUCOUS MEMBRANES. AMERICAN RADIUM APPLIANCE COMPANY, New York, N. Y.
Filed April 26, 1923. Serial No. 179,699. PUBLISHED AUGUST 7, 1923.

175,103. STEARIC ACID. WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y.
Filed April 25, 1923. Serial No. 179,695. PUBLISHED AUGUST 7, 1923.

175,104. CERTAIN NAMED CLOTHING. NATHAN WIENER, New York, N. Y.
Filed April 25, 1923. Serial No. 179,694. PUBLISHED AUGUST 14, 1923.

175,105. FULL-FASHIONED AND NOVELTY HOSIERY. BERNDSEN SILK KNITTING CO., Bangor, Pa.
Filed April 25, 1923. Serial No. 179,648. PUBLISHED AUGUST 14, 1923.

175,106. WOVEN COTTON TOWELS AND TOWELING. BOOTT MILLS, Lowell, Mass.
Filed March 9, 1923. Serial No. 177,164. PUBLISHED AUGUST 7, 1923.

175,107. WORK SHIRTS. THE WESTERN SHIRT COMPANY, New York, N. Y.
Filed March 8, 1923. Serial No. 177,156. PUBLISHED AUGUST 7, 1923.

175,108. THERMOMETERS. SCHAEFFER & BUDENBERG MFG. CO., Brooklyn, N. Y.
Filed March 7, 1923. Serial No. 177,110. PUBLISHED AUGUST 7, 1923.

175,109. FINISHED COMMUTATOR SEGMENTS, COPPER BARS AND STRIPS USED FOR ELECTRICAL PURPOSES, AND INSULATED COPPER WIRE. ANACONDA COPPER MINING COMPANY, New York, N. Y.
Filed March 7, 1923. Serial No. 177,063. PUBLISHED JUNE 5, 1923.

175,110. MOLASSES. WM. WIRT WICKES & SON, New York, N. Y.
Filed March 3, 1923. Serial No. 176,930. PUBLISHED AUGUST 14, 1923.

175,111. CERTAIN NAMED UPHOLSTERED FURNITURE. ALBERT SKLAREK CO. INC., New York, N. Y.
Filed March 3, 1923. Serial No. 176,922. PUBLISHED AUGUST 7, 1923.

175,112. ANTACID NEUTRALIZING POWDER. MOORE & CO. INC., Worcester, Mass.
Filed March 3, 1923. Serial No. 176,906. PUBLISHED AUGUST 7, 1923.

175,113. CALCINED GYPSUM, STUCCO, AND WALL PLASTERS. UNITED STATES GYPSUM COMPANY, Chicago, Ill.
Filed March 2, 1923. Serial No. 176,863. PUBLISHED AUGUST 7, 1923.

175,114. SWEATERS, DRESSES, AND SCARFS. WILLIAM A. LEIB CO. INC., New York, N. Y.
Filed February 28, 1923. Serial No. 176,744. PUBLISHED AUGUST 14, 1923.

175,115. MEN'S AND YOUNG MEN'S OVERCOATS AND SUITS IN TWO AND THREE PIECE GARMENTS. FRUHAUF BROS. & CO., New York, N. Y.
Filed February 28, 1923. Serial No. 176,736. PUBLISHED AUGUST 14, 1923.

175,116. HOUSE DRESSES AND APRONS. PERFECTION GARMENT COMPANY, Martinsburg, W. Va.
Filed February 27, 1923. Serial No. 176,692. PUBLISHED AUGUST 7, 1923.

175,117. WEARING APPAREL—NAMELY, APRONS, DRESSES, AND BLOOMERS. RHEA MANUFACTURING CO., Milwaukee, Wis.
Filed February 26, 1923. Serial No. 176,653. PUBLISHED AUGUET 7, 1923.

175,118. SHOE POLISH. LOUIS H. FISHER, Cleveland, Ohio.
Filed February 20, 1923. Serial No. 176,338. PUBLISHED AUGUST 7, 1923.

175,119. METAL POLISH. A-1 MANUFACTURING COMPANY, Philadelphia, Pa.
Filed February 20, 1923. Serial No. 176,318. PUBLISHED AUGUST 7, 1923.

175,120. CANDY. DANTE GAMBINOSSI, New York, N. Y.
Filed February 19, 1923. Serial No. 176,265. PUBLISHED AUGUST 14, 1923.

175,121. FRESH VEGETABLES. SAVANNAH TRUCKERS EXCHANGE, Savannah, Ga.
Filed February 17, 1923. Serial No. 176,210. PUBLISHED AUGUST 14, 1923.

175,122. JELLIES, JAMS, PRESERVES, MARMALADES, AND PICKLES. CHARLOTTE E. MARVIN, San Francisco, Calif.
Filed February 17, 1923. Serial No. 176,195. PUBLISHED AUGUST 14, 1923.

175,123. WOMEN'S CLOAKS, SUITS, AND COATS. MILTEX CLOAK & SUIT CO., New York, N. Y.
Filed February 14, 1923. Serial No. 176,030. PUBLISHED JULY 17, 1923.

175,124. CANDY. CALVIN LEICHTMAN, doing business as Leichtman Candy Manufacturing Company, Hazleton, Pa.
Filed February 12, 1923. Serial No. 175,932. PUBLISHED AUGUST 14, 1923.

175,125. DISHWASHING MACHINES AND METAL-PARTS-WASHING MACHINES. CRESCENT WASHING MACHINE COMPANY, INCORPORATED, New Rochelle, N. Y.
Filed March 9, 1923. Serial No. 177,168. PUBLISHED AUGUST 7, 1923.

175,126. CAPS AND CLOSURES FOR RECEPTACLES AND CONTAINERS. C. & W. CAP COMPANY, Nevada, Iowa.
Filed May 16, 1923. Serial No. 180,688. PUBLISHED AUGUST 7, 1923.

175,127. CLEANER AND POLISH FOR AUTOMOBILES, FURNITURE, FLOORS, CORK CARPETS, AND LINOLEUMS. SMITH OIL & REFINING COMPANY, Rockford, Ill.
Filed May 14, 1923. Serial No. 180,627. PUBLISHED AUGUST 14, 1923.

175,128. HAMMERS. KELLY AXE MANUFACTURING COMPANY, Charleston, W. Va.
Filed May 15, 1923. Serial No. 180,666. PUBLISHED AUGUST 7, 1923.

175,129. CERTAIN COVERS MADE OF TEXTILE FABRICS. AL-LON MANUFACTURING COMPANY, INC., Baltimore, Md.
Filed May 15, 1923. Serial No. 180,646. PUBLISHED AUGUST 14, 1923.

175,130. FLOOR DRESSING. NEWTON S. HILLYARD, doing business as Hillyard Chemical Company, St. Joseph, Mo.
Filed May 14, 1923. Serial No. 180,602. PUBLISHED AUGUST 14, 1923.

175,131. HEADACHE CAPSULES. HEADEX REMEDY CO., McKeesport, Pa.
Filed May 14, 1923. Serial No. 180,599. PUBLISHED AUGUST 7, 1923.

175,132. COTTON PIECE GOODS. E. MILIUS & CO., New York, N. Y.
Filed May 12, 1923. Serial No. 180,545. PUBLISHED AUGUST 7, 1923.

175,133. MEDICINAL PREPARATION FOR RHEUMATISM, ETC. THE CAPCOSS CO., INC., Martinsville, Va.
Filed May 14, 1923. Serial No. 180,583. PUBLISHED AUGUST 7, 1923.

175,134. CANNED FRUITS AND VEGETABLES. EL MONTE CANNING CO., El Monte, Calif.
Filed May 12, 1923. Serial No. 180,531. PUBLISHED AUGUST 14, 1923.

175,135. COTTON PIECE GOODS. A. M. ROBINSON COMPANY, Atlanta, Ga.
Filed May 11, 1923. Serial No. 180,496. PUBLISHED AUGUST 7, 1923.

175,136. AUTOMOBILE TRUCKS, AUTOMOBILE REFRIGERATION TRUCKS, REFRIGERATION RAILROAD CARS. I. C. REFRIGERATION CO., New York, N. Y.
Filed May 11, 1923. Serial No. 180,476. PUBLISHED AUGUST 14, 1923.

175,137. DRESSES, SKIRTS, WRAPS, BLOUSES. J. A. MIGEL, INC., North Bergen, N. J., and New York, N. Y.
Filed May 11, 1923. Serial No. 180,485. PUBLISHED AUGUST 14, 1923.

175,138. WEEKLY PERIODICALS. CULTIVATOR PUBLISHING COMPANY, Los Angeles, Calif.
Filed May 10, 1923. Serial No. 180,421. PUBLISHED AUGUST 7, 1923.

175,139. GRINDING AND CRUSHING MACHINERY. THE CHEMICAL ENGINEERING COMPANY (MANCHESTER) LIMITED, Manchester, England.
Filed May 10, 1923. Serial No. 180,418. PUBLISHED AUGUST 14, 1923.

175,140. PLASTERLIKE COMPOSITION FOR USE AS A SURFACING FOR FLOORS, WALLS, ROOFS, ETC. E. N. BIEGLER MANUFACTURING CO., Chicago, Ill.
Filed May 10, 1923. Serial No. 180,412. PUBLISHED AUGUST 7, 1923.

175,141. BRAKE LINING. MULTIBESTOS COMPANY, Walpole, Mass.
Filed May 8, 1923. Serial No. 180,341. PUBLISHED JULY 31, 1923.

175,142. DRESSES, GOWNS, SUITS, WRAPS, AND COATS. JENNY LEE FROCKS INC., Minneapolis, Minn.
Filed May 9, 1923. Serial No. 180,378. PUBLISHED AUGUST 14, 1923.

175,143. MEN'S, WOMEN'S, AND CHILDREN'S KNITTED UNDERWEAR, SWEATERS, AND HOSIERY; CAPS, SCARFS, AND COATS MADE OF KNIT FABRICS. FRANK & COMPANY, Savannah, Ga.
Filed May 8, 1923. Serial No. 180,334. PUBLISHED AUGUST 14, 1923.

175,144. CONCEALABLE BEDS. CALIFORNIA WALL BED COMPANY, San Francisco, Calif.
Filed May 8, 1923. Serial No. 180,326. PUBLISHED AUGUST 7, 1923.

175,145. MONTHLY PERIODICAL. ÆTNA LIFE INSURANCE COMPANY, Hartford, Conn.
Filed May 8, 1923. Serial No. 180,319. PUBLISHED AUGUST 7, 1923.

175,146. MEN'S AND BOYS' COLLARS, PYJAMAS, AND SHIRTS, INCLUDING DRESS, NEGLIGEE, AND WORK SHIRTS. HARRY BERGER, doing business as Harry Berger Shirt Company, New York, N. Y.
Filed May 17, 1923. Serial No. 180,741. PUBLISHED AUGUST 7, 1923.

175,147. BED SPRINGS. NEW YORK BED SPRING MFG. CO., Detroit, Mich.
Filed May 16, 1923. Serial No. 180,716. PUBLISHED AUGUST 7, 1923.

175,148. MEN'S AND BOYS' COLLARS, PYJAMAS, AND SHIRTS, INCLUDING DRESS, NEGLIGEE, AND WORK SHIRTS. HARRY BERGER, doing business as Harry Berger Shirt Company, New York, N. Y.
Filed May 17, 1923. Serial No. 180,743. PUBLISHED AUGUST 7, 1923.

175,149. MEN'S AND BOYS' COLLARS, PYJAMAS, AND SHIRTS, INCLUDING DRESS, NEGLIGEE, AND WORK SHIRTS. HARRY BERGER, doing business as Harry Berger Shirt Company, New York, N. Y.
Filed May 17, 1923. Serial No. 180,742. PUBLISHED AUGUST 7, 1923.

175,150. SOAP. SUSANNA COCROFT LABORATORIES INC., New York, N. Y.
Filed May 17, 1923. Serial No. 180,750. PUBLISHED AUGUST 7, 1923.

175,151. FACE OR WASH CLOTHS. WILLIAM A. SCHWALB, New York, N. Y.
Filed May 18, 1923. Serial No. 180,813. PUBLISHED AUGUST 14, 1923.

175,152. SPORT GOODS—NAMELY, BATHING SUITS, SPORT COATS, AND SWEATERS. SPA KNITTING CO. INC., Ballston Spa, N. Y.
Filed May 18, 1923. Serial No. 180,816. PUBLISHED AUGUST 7, 1923.

175,153. SELF-PROPELLED VEHICLES, SINGLE AND DOUBLE DECK MOTOR COACHES, AND MOTOR BUSSES. MITTEN TRAYLOR, INC., Philadelphia, Pa.
Filed May 18, 1923. Serial No. 180,818. PUBLISHED AUGUST 14, 1923.

175,154. PORTABLE SAVINGS BANKS. THE AUTOMATIC RECORDING SAFE CO., Chicago, Ill.
Filed May 19, 1923. Serial No. 180,825. PUBLISHED AUGUST 14, 1923.

175,155. PORTABLE SAVINGS BANKS. THE AUTOMATIC RECORDING SAFE CO., Chicago, Ill.
Filed May 19, 1923. Serial No. 180,826. PUBLISHED AUGUST 14, 1923.

175,156. HOSIERY. BROWNHILL & KRAMER, Philadelphia, Pa.
Filed May 19, 1923. Serial No. 180,837. PUBLISHED AUGUST 7, 1923.

175,157. PLY WOOD, VENEER, SAWED TIMBER, OR CORK REENFORCED WITH SHEET METAL CEMENTED TO ONE OR BOTH SURFACES, THE WOOD ALWAYS PREDOMINATING. VENESTA LIMITED, London, England.
Filed May 19, 1923. Serial No. 180,912. PUBLISHED AUGUST 7, 1923.

175,158. STAINED WOODEN SHINGLES. J. S. WILLIAMS, doing business as The Williams Stained Shingle Co., Vancouver, Wash.
Filed May 19, 1923. Serial No. 180,916. PUBLISHED AUGUST 7, 1923.

175,159. TOILET PAPER, PAPER NAPKINS, PAPER TOWELS, AND PAPER TABLECLOTHS. FORT HOWARD PAPER COMPANY, Green Bay, Wis.
Filed May 22, 1923. Serial No. 180,970. PUBLISHED AUGUST 7, 1923.

175,160. HOSIERY. EVERSTYLE HOSIERY CO., Cedarburg, Wis.
Filed May 22, 1923. Serial No. 180,999. PUBLISHED AUGUST 7, 1923.

175,161. CERTAIN NAMED PIECE GOODS. JACOB MILLER'S SONS CO., Philadelphia, Pa.
Filed May 23, 1923. Serial No. 181,035. PUBLISHED AUGUST 14, 1923.

175,162. ASBESTOS CEMENT. SMITH & KANZLER, Elizabeth, N. J.
Filed May 23, 1923. Serial No. 181,047. PUBLISHED AUGUST 7, 1923.

175,163. HOSIERY. THE BRIGHAM COMPANY, Springfield, Mass.
Filed May 24, 1923. Serial No. 181,056. PUBLISHED AUGUST 7, 1923.

175,164. WEIGHING SCALES AS WELL AS COIN-CONTROLLED SCALES. O. D. JENNINGS & COMPANY, Chicago, Ill.
Filed May 24, 1923. Serial No. 181,077. PUBLISHED AUGUST 14, 1923.

175,165. BLOOMERS. THE WALTER A. GOLDSMITH CO., Cleveland, Ohio.
Filed May 25, 1923. Serial No. 181,116. PUBLISHED AUGUST 7, 1923.

175,166. THREAD AND YARN. J. & P. COATS (R. I.) INC., Pawtucket, R. I.
Filed June 9, 1923. Serial No. 181,729. PUBLISHED AUGUST 7, 1923.

175,167. TIRE-CHAIN FASTENERS. THE COLUMBUS MCKINNON CHAIN COMPANY, Columbus, Ohio.
Filed June 8, 1923. Serial No. 181,673. PUBLISHED AUGUST 14, 1923.

175,168. SEWING SILK. THE H. K. H. SILK CO., Watertown, Conn.
Filed June 6, 1923. Serial No. 181,594. PUBLISHED AUGUST 14, 1923.

175,169. MECHANICAL PENCILS. WILLIAM H. BLAKE, Jersey City, N. J.
Filed June 6, 1923. Serial No. 181,585. PUBLISHED AUGUST 7, 1923.

175,170. TOILET PAPER, PAPER NAPKINS, PAPER TOWELS, AND PAPER TABLECLOTHS. FORT HOWARD PAPER COMPANY, Green Bay, Wis.
Filed June 1, 1923. Serial No. 181,442. PUBLISHED AUGUST 7, 1923.

175,171. DROP FORGINGS. WESTERN DROP FORGE COMPANY, Marion, Ind.
Filed May 31, 1923. Serial No. 181,429. PUBLISHED AUGUST 7, 1923.

175,172. HANDKERCHIEFS. DRUGGISTS' SUPPLY CORPORATION, New York, N. Y.
Filed May 31, 1923. Serial No. 181,388. PUBLISHED AUGUST 7, 1923.

175,173. CERTAIN WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS. CHENEY BROTHERS, South Manchester, Conn.
Filed May 31, 1923. Serial No. 181,378. PUBLISHED AUGUST 7, 1923.

175,174. WOOLEN PIECE GOODS. AMERICAN WOOLEN COMPANY, Rochdale, Mass.
Filed May 31, 1923. Serial No. 181,372. PUBLISHED AUGUST 7, 1923.

175,175. TOY VILLAGES AND DOLLS. BERTHA M. LARKIN, Georgetown, Mass.
Filed May 29, 1923. Serial No. 181,343. PUBLISHED AUGUST 7, 1923.

175,176. WOVEN TEXTILE FABRICS. THE ESMOND MILLS, Esmond, Smithfield, R. I.
Filed May 29, 1923. Serial No. 181,339. PUBLISHED AUGUST 7, 1923.

175,177. FABRIC KNOWN AS WORSTED REP. BOTANY WORSTED MILLS, Passaic, N. J.
Filed May 29, 1923. Serial No. 181,334. PUBLISHED AUGUST 14, 1923.

175,178. PILE FABRICS IN THE PIECE. PENNSYLVANIA TEXTILE MILLS, INC., Glen Riddle, Pa., and New York, N. Y.
Filed May 28, 1923. Serial No. 181,307. PUBLISHED AUGUST 7, 1923.

175,179. TIRES COMPOSED OF RUBBER AND FABRIC. THE DENMAN MYERS CORD TIRE COMPANY, Warren, Ohio.
Filed May 28, 1923. Serial No. 181,252. PUBLISHED AUGUST 14, 1923.

175,180. COTTON BLANKETS. THE CAROLINA COTTON & WOOLEN MILLS COMPANY, Spray, N. C.
Filed May 28, 1923. Serial No. 181,244. PUBLISHED AUGUST 14, 1923.

175,181. COTTON BLANKETS. THE CAROLINA COTTON & WOOLEN MILLS COMPANY, Spray, N. C.
Filed May 28, 1923. Serial No. 181,243. PUBLISHED AUGUST 14, 1923.

175,182. LINEN PIECE GOODS. THOMAS YOUNG INC., New York, N. Y.
Filed May 26, 1923. Serial No. 181,231. PUBLISHED AUGUST 14, 1923.

175,183. FABRICS MADE OF SILK. GOLDING FABRICS CORPORATION, New York, N. Y.
Filed May 26, 1923. Serial No. 181,181. PUBLISHED JULY 17, 1923.

175,184. HOSIERY. JOSEPH C. BOSSONG, doing business as J. C. Bossong & Co., New York, N. Y.
Filed May 26, 1923. Serial No. 181,170. PUBLISHED AUGUST 7, 1923.

175,185. LEATHER ROLLER SKINS. JOHN ORMEROD & SONS LTD., Castleton, England.
Filed May 25, 1923. Serial No. 181,144. PUBLISHED AUGUST 7, 1923.

175,186. PLOWS. HARRY FERGUSON, Evansville, Ind.
Filed February 9, 1923. Serial No. 175,778. PUBLISHED AUGUST 7, 1923.

175,187. COTTON AND WOOL UPHOLSTERING FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed February 9, 1923. Serial No. 175,765. PUBLISHED AUGUST 7, 1923.

175,188. COTTON AND WOOL UPHOLSTERY FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed February 9, 1923. Serial No. 175,763. PUBLISHED AUGUST 7, 1923.

175,189. SHIRTS COMPRISING DRESS SHIRTS, OUTING SHIRTS, UNDERSHIRTS, AND UNION SUITS; DRAWERS, PYJAMAS, NIGHTSHIRTS, NIGHTDRESSES; VESTS OF KNITTED AND TEXTILE FABRIC FOR MEN, WOMEN, AND CHILDREN. GEORGE F. LESTER, San Antonio, Tex.
Filed February 8, 1923. Serial No. 175,727. PUBLISHED AUGUST 7, 1923.

175,190. OVERALLS, PANTS, AND WORKING SHIRTS. HORACE L. ALLEN MFG. CO., Nashville, Tenn.
Filed February 6, 1923. Serial No. 175,591. PUBLISHED AUGUST 7, 1923.

175,191. ARTISTICALLY-DECORATED LAMP SHADES OF METAL, PARCHMENT, SILK, ETC. IVY R. CARTER, Estacada, Oreg.
Filed February 5, 1923. Serial No. 175,543. PUBLISHED AUGUST 14, 1923.

175,192. EVAPORATORS, PULP-MILL MACHINERY, ETC. SWENSON EVAPORATOR COMPANY, Harvey, Ill.
Filed February 3, 1923. Serial No. 175,530. PUBLISHED AUGUST 14, 1923.

175,193. LININGS, POCKETINGS, AND INTERLININGS OF COTTON FABRICS. GOETZ-BERLIN CO., INC., New York, N. Y.
Filed February 3, 1923. Serial No. 175,486. PUBLISHED AUGUST 7, 1923.

175,194. CANNED FRUITS AND CANNED VEGETABLES. CALIFORNIA CO-OPERATIVE CANNERIES, San Francisco, Calif.
Filed February 10, 1923. Serial No. 175,844. PUBLISHED AUGUST 7, 1923.

175,195. SEMILIQUID ASBESTOS ROOF COATING. THE DURABLE PRODUCTS COMPANY, Cleveland, Ohio.
Filed January 27, 1923. Serial No. 175,190. PUBLISHED AUGUST 7, 1923.

175,196. POLISHES FOR METAL AND BOOTS AND SHOES. THE NONSUCH MANUFACTURING CO. LIMITED, Toronto, Ontario, Canada.
Filed January 22, 1923. Serial No. 175,207. PUBLISHED AUGUST 7, 1923.

175,197. UPHOLSTERED FURNITURE FOR DOMESTIC AND HOUSEHOLD USE. LANDAU CABINET COMPANY, St. Louis, Mo.
Filed January 18, 1923. Serial No. 174,743. PUBLISHED AUGUST 7, 1923.

175,198. SOLIDIFIED COAL-TAR DISINFECTANTS. BECH, VAN SICLEN & CO., INC., New York, N. Y.
Filed January 20, 1923. Serial No. 174,815. PUBLISHED AUGUST 7, 1923.

175,199. CRANES MOUNTED ON MOTOR TRUCKS. THE BYERS MACHINE COMPANY, Ravenna, Ohio.
Filed January 25, 1923. Serial No. 175,068. PUBLISHED AUGUST 14, 1923.

175,200. SAFETY PINS. THE RISDON MANUFACTURING COMPANY, Naugatuck, Conn.
Filed January 25, 1923. Serial No. 175,104. PUBLISHED AUGUST 7, 1923.

175,201. SOAP. THE VAN CAMP PACKING COMPANY INC., Indianapolis, Ind.
Filed January 22, 1923. Serial No. 175,115. PUBLISHED AUGUST 7, 1923.

175,202. MEN'S HIGH-GRADE DRESS SHIRTS. WATTS, RITTER AND COMPANY, Huntington, W. Va.
Filed January 25, 1923. Serial No. 175,116. PUBLISHED AUGUST 7, 1923.

175,203. YOUNG MEN'S SUITS AND OVERCOATS. PHILIPSBORN'S, INC., Chicago, Ill.
Filed January 26, 1923. Serial No. 175,155. PUBLISHED AUGUST 7, 1923.

175,204. SALADS, SALAD DRESSINGS, SWEET-PEPPER RELISHES, SANDWICH SPREADS, PICKLES, CANNED SOUPS, AND TABLE SIRUPS. BARKE-BERGER FOOD PRODUCTS CO., Toledo, Ohio.
Filed January 27, 1923. Serial No. 175,182. PUBLISHED AUGUST 14, 1923.

175,205. NONCHATTER PREPARATIONS FOR AUTOMOBILE BANDS. CHAT-LESS-INB COMPANY, Springfield, Mass.
Filed January 19, 1923. Serial No. 175,185. PUBLISHED AUGUST 7, 1923.

175,206. SOFT DRINKS AND SIRUPS. NOYES E. FRENCH, Boston, Mass.
Filed June 9, 1923. Serial No. 181,743. PUBLISHED AUGUST 7, 1923.

175,207. PAPER PAILS. WESTERN PAPER BOX COMPANY, Chicago, Ill.
Filed June 9, 1923. Serial No. 181,796. PUBLISHED AUGUST 14, 1923.

175,208. PAPER PAILS. WESTERN PAPER BOX COMPANY, Chicago, Ill.
Filed June 9, 1923. Serial No. 181,797. PUBLISHED AUGUST 14, 1923.

175,209. PAPER PAILS. WESTERN PAPER BOX COMPANY, Chicago, Ill.
Filed June 9, 1923. Serial No. 181,798. PUBLISHED AUGUST 14, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

175,210. (CLASS 5. ADHESIVES.) UNION PETROLEUM COMPANY, Philadelphia, Pa. Filed June 12, 1923. Serial No. 181,923.

KORBIN

Particular description of goods.—Core Oils.
Claims use since in or about August, 1912.

175,211. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) VINCENZO G. PARADISO, Passaic, N. J. Filed Sept. 10, 1923. Serial No. 185,611.

Paradiso

Particular description of goods.—Pianos.
Claims use since Aug. 25, 1914.

175,212. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich. Filed Jan. 25, 1923. Serial No. 175,056.

MINUTE BREW

Particular description of goods.—A Cereal Food Beverage.
Claims use since May 1, 1912.

175,213. (CLASS 39. CLOTHING.) L. ABELSON & SON, New York, N. Y. Filed Feb. 7, 1923. Serial No. 175,638.

DURABEL

Particular description of goods.—Boys' Suits and Coats.
Claims use since Aug. 21, 1922.

175,214. (CLASS 39. CLOTHING.) ALLEN HOSIERY COMPANY, Philadelphia, Pa. Filed Mar. 5, 1923. Serial No. 176,935.

Weldrest
TRADE MARK
FAMILY TAILORED HOSIERY

Particular description of goods.—Hosiery.
Claims use since Aug. 17, 1920.

175,215. (CLASS 39. CLOTHING.) MALLORY SHIRT CO., INC., New York, N. Y. Filed Mar. 7, 1923. Serial No. 177,093.

Mallory

Particular description of goods.—Dress, Negligee, Soft, and Sport Shirts.
Claims use since April, 1922.

175,216. (CLASS 39. CLOTHING.) CHARLES O. ANGLE, doing business as Angle Mfg. Co., Racine, Wis. Filed Apr. 9, 1923. Serial No. 178,796.

KANT KREEP

Particular description of goods.—Negligee Shirts, Dress Shirts, and Sport Shirts.
Claims use since August, 1921.

175,217. (CLASS 27. HOROLOGICAL INSTRUMENTS.) FRIEDRICH MAUTHE GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Schwenningen, Germany. Filed Apr. 13, 1923. Serial No. 179,094.

Mauthe

Particular description of goods.—Clocks.
Claims use since 1911.

175,218. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LORRAINE MANUFACTURING COMPANY, Pawtucket, R. I. Filed Apr. 27, 1923. Serial No. 179,805.

LORRAINE
EGYPTIAN TISSUE

Particular description of goods.—Cotton Piece Goods, Silk and Cotton Piece Goods, and Wool and Cotton Piece Goods.
Claims use since October, 1903.

175,219. (CLASS 39. CLOTHING.) SALANT & SALANT, INC., New York, N. Y. Filed Apr. 27, 1923. Serial No. 179,822.

RIDGEWOOD

Particular description of goods.—Men's and Boys' Dress Shirts and Work Shirts, Drawers, Union Suits, and Underwear Made of Textile Fabric; Also Knitted Shirts, Knitted Drawers, and Knitted Union Suits.
Claims use since September, 1912.

175,220. (CLASS 39. CLOTHING.) SALANT & SALANT, INC., New York, N. Y. Filed Apr. 27, 1923. Serial No. 179,823.

SUPERSIZE THAT SATISFIES

Particular description of goods.—Men's and Boys' Dress Shirts, and Work Shirts, Also Knitted Shirts, Knitted Drawers and Union Suits, and Underwear Made of Textile Fabrics Consisting of Shirts, Drawers, Athletic Suits, and Union Suits.
Claims use since Dec. 5, 1921.

175,221. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EVANSVILLE PURE MILK CO., Evansville, Ind. Filed May 4, 1923. Serial No. 180,172.

EVANSVILLE Pure Milk COMPANY

Particular description of goods.—Fresh Milk, Butter, and Ice Cream.
Claims use since October, 1921.

175,222. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GRANGERS MANUFACTURING CO., Boston, Mass. Filed June 20, 1923. Serial No. 182,244.

SUPERFINE
GRANGERS

Particular description of goods.—Whiting for Industrial Purposes, Including Use in Paint, Linoleum, and Rubber Trades.
Claims use since Jan. 1, 1918.

175,223. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) FAGEOL MOTORS CO., Oakland, Calif. Filed June 29, 1923. Serial No. 182,575.

SAFETY COACH

Particular description of goods.—Motor Trucks, Automobiles, and a Special Type of Automotive Stage Bus.
Claims use since Jan. 17, 1922.

175,224. (CLASS 45. BEVERAGES, NONALCOHOLIC.) PURE PRODUCTS SYRUP CORPORATION, New York, N. Y. Filed June 29, 1923. Serial No. 182,609.

Exquisite

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Jan. 1, 1919.

175,225. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) WALTER A. GIBBS, trading as W. A. Gibbs & Son, Chester, Pa. Filed May 18, 1923. Serial No. 180,797.

TWO TRIGGER

Particular description of goods.—Animal Traps.
Claims use since about Aug. 15, 1919.

175,226. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) G. H. FISCHER & Co., Glendale, Long Island, N. Y. Filed Apr. 9, 1923. Serial No. 178,833.

VARIO-WAVE

Particular description of goods.—Variometers and Variocouplers.
Claims use since August, 1922.

175,227. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) WILLIAM S. LANGFORD, Baltimore, Md. Filed Sept. 19, 1922. Serial No. 169,678.

LOCKWOVEN

Particular description of goods.—Power Belts.
Claims use since 1920.

175,228. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) I. R. NELSON Co., Newark, N. J. Filed Apr. 14, 1922. Serial No. 162,308.

REEL EASY

Particular description of goods.—Reels of Wire for Electrical Purposes, Radio Receiving Sets, and Wire Coils for Radio Apparatus.
Claims use since Jan. 12, 1922.

175,229. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) REMINGTON ARMS COMPANY, INC., New York, N. Y. Filed Oct. 2, 1920. Serial No. 137,856.

WETPROOF

Particular description of goods.—Paper Shot Shells, Loaded and Empty.
Claims use since Feb. 11, 1916.

175,230. (CLASS 39. CLOTHING.) BOB & BASKIND, New York, N. Y. Filed July 19, 1923. Serial No. 183,431.

FARMERS AND MECHANICS

Particular description of goods.—Men's and Boys' Cotton Work Shirts, Flannel Shirts, Dress Shirts, Sport Shirts, and Boys' Blouses.
Claims use since June 1, 1922.

175,231. (CLASS 39. CLOTHING.) BURNHAM-MUNGER-ROOT DRY GOODS Co., Kansas City, Mo. Filed July 18, 1923. Serial No. 183,359.

PLYMOUTH

Particular description of goods.—Men's, Women's, and Children's Textile Underwear—viz, Two-Piece Suits, Union Suits, Shirts, and Drawers.
Claims use since Jannary, 1910.

175,232. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TRUE-TONE RADIO MFG. CO., (NOT INC.), Chicago, Ill. Filed July 9, 1923. Serial No. 183,011.

CONCERT GRAND

Particular description of goods.—Radiotelephone Loud-Speaker Horns, Loud-Speaker Telephone Units, Radiotelephone Head Sets, Variometers, Variocouplers, Variable Condensers, Radiotransformers, and Complete Radio Receiving Sets.
Claims use since Feb. 28, 1922.

175,233. (CLASS 43. THREAD AND YARN.) THE H. K. H. SILK CO., Watertown, Conn. Filed Dec. 26, 1922. Serial No. 173,827.

HAMPTON

Particular description of goods.—Pure and Artificial Silk Threads.
Claims use since July 1, 1895.

175,234. (CLASS 32. FURNITURE AND UPHOLSTERY.) STANDARD FURNITURE Co., Seattle, Wash. Filed Nov. 2, 1922. Serial No. 171,514.

Your Credit Is Good

Particular description of goods.—Furniture—Namely, Brass, Iron, and Wood Beds and Bedroom Suites; Buffets, Kitchen Cabinets; Dining, Fiber, High, Nursery, and Overstuffed Chairs; Fiber Chaise Longues, Cedar Chests, Chiffoniers and Ivory Chifforettes, China Cabinets; Army, Sanitary, Steel, and Wooden Cots; Steel Couches, Steel and Wooden Cribs; Bed, Fiber, and Overstuffed Davenports; Fiber Desk and Chair Sets, Dining-Room Suites, Bedroom Dressers and Dressing Tables, Fiber Ferneries; Bed, Crib, and Davenport Mattresses; Couch Pads, Pillows; Child's, Fiber-Reed, Leather, Oak, Overstuffed, and Sewing Rockers; Fiber-Reed Settees; Sewing Cabinets, Not Including Sewing Machines; Porch and Window Shades, Bed Springs, Footstools; Card, Davenport, Dining, End, Gate-Leg, Library, and Serving Tables; Tea Wagons.
Claims use since Jan. 18, 1903.

175,235. (CLASS 15. OILS AND GREASES.) THE WHITE & BAGLEY COMPANY, Worcester, Mass. Filed Sept. 11, 1922. Serial No. 169,340.

FLOCOLD

Particular description of goods.—Lubricating Oils and Greases.
Claims use since Aug. 9, 1922.

175,236. (CLASS 45. BEVERAGES, NONALCOHOLIC.) TROPICAL JUICE CORP., Brooklyn, N. Y. Filed Aug. 17, 1922. Serial No. 168,390.

PIÑA

Particular description of goods.—Nonalcoholic, Maltless Pineapple Drink.
Claims use since Aug. 1, 1922.

175,237. (CLASS 43. THREAD AND YARN.) DETMER, BRUNER & MASON, INC., New York, N. Y. Filed Aug. 3, 1922. Serial No. 167,769.

WORLD'S BEST

Particular description of goods.—Spool Silk.
Claims use since May 1, 1922.

175,238. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JESSE M. HAYES, doing business as Hayes Fish Company, Bridgeport, Conn. Filed July 28, 1922. Serial No. 167,522.

HAYES

Particular description of goods.—Fresh Beef, Mutton, Veal, Lamb, Pork, Game; Dressed Poultry, Corned and Dried Beef, Smoked Ham and Tongue; Fresh, Smoked, and Salted Fish; Fresh Vegetables, Fresh Citrous and Deciduous Fruits, and Fresh Berries, Melons, Grapes, Bananas; Dried Fruits.
Claims use since July 22, 1922.

175,239. (CLASS 5. ADHESIVES.) SAMUEL H. MARKS, New York, N. Y. Filed July 21, 1922. Serial No. 167,184.

"STIKTOTIN"

Particular description of goods.—Adhesive Pastes.
Claims use since Mar. 1, 1922.

175,240. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WITCOMBE, MCGEACHIN & Co., New York, N. Y. Filed July 17, 1922. Serial No. 167,034.

KENSINGTON PRINT

Particular description of goods.—Printed Textile Fabrics of Cotton, Wool, Silk, Linen, or Mixtures Thereof.
Claims use since June 1, 1922.

175,241. (CLASS 5. ADHESIVES.) MONTGOMERY H. PARSONS, doing business as Parsons Chemical Company, Dayton, Ohio. Filed July 13, 1922. Serial No. 166,852.

PULLIEGLU

Particular description of goods.—Glue for Lagging Steel Pulleys with Canvas.
Claims use since June 15, 1922.

175,242. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FRANKLIN KNITTING MILLS, INC., New York, N. Y. Filed May 10, 1922. Serial No. 163,627.

FRANKLIN

Particular description of goods.—Knitted Cloth or Fabric of Silk, Wool, and Mixtures of Same.
Claims use since June 15, 1909.

175,243. (CLASS 32. FURNITURE AND UPHOLSTERY.) ALBERTO LEITE RIBEIRO, Camden, N. J. Filed Nov. 25, 1921. Serial No. 155,931.

KLOSEPAK

Particular description of goods.—Folding Chairs, Tables, and Stools.
Claims use since on or about Nov. 18, 1921.

175,244. (CLASS 12. CONSTRUCTION MATERIALS.) LUMBER SERVICE CORPORATION, Boston, Mass. Filed Aug. 22, 1921. Serial No. 152,019.

REGULAR

Particular description of goods.—Asphalt Shingles and Asphalt Roofing.
Claims use since December, 1920.

175,245. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEO. M. JORDAN, Vincennes, Ind. Filed June 11, 1921. Serial No. 149,008.

HIGHPROOF

Particular description of goods.—Wheat Flour.
Claims use since Mar. 1, 1921.

175,246. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) MODEL FORM COMPANY, Chicago, Ill. Filed May 19, 1921. Serial No. 147,934.

Model Form

Particular description of goods.—Dress Forms.
Claims use since Mar. 31, 1921.

175,247. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) GEORGE A. STETSON, Boston, Mass. Filed Oct. 15, 1920. Serial No. 138,360.

PERFECTION

Particular description of goods.—Arch Cushions.
Claims use since during the month of September, 1907.

175,248. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) GEORGE A. STETSON, Boston, Mass. Filed Sept. 16, 1920. Serial No. 137,272.

"PERFECTION" ARCH CUSHION PNEUMATIC

Particular description of goods.—Arch Cushions for Use in Boots and Shoes.
Claims use since during the month of September, 1907.

175,249. (CLASS 2. RECEPTACLES.) SOUTHERN COTTON MILLS AGENCY, INC., Baltimore, Md. Filed Aug. 17, 1923. Serial No. 184,625.

NATIONAL A SEAMLESS

Particular description of goods.—Seamless Bags.
Claims use for not less than one year.

175,250. (CLASS 7. CORDAGE.) THE PORTLAND CORDAGE CO., Portland, Oreg. Filed Aug. 4, 1923. Serial No. 184,099.

OREGON

Particular description of goods.—Rope and Twine of Hard Fiber.
Claims use since 1908.

175,251. (CLASS 37. PAPER AND STATIONERY.) THE MARTIN CANTINE CO., Saugerties, N. Y. Filed July 28, 1923. Serial No. 183,799.

NIAGARA

Particular description of goods.—Enameled Book Paper.
Claims use since 1918.

175,252. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) JULIUS HORTVET, St. Paul, Minn. Filed July 26, 1923. Serial No. 183,705.

Hortvet Butter Test Bottle

Particular description of goods.—Butter-Test Bottles.
Claims use since Oct. 15, 1920.

175,253. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARDINET CANDY COMPANY, Oakland, Calif. Filed July 11, 1923. Serial No. 183,052.

CARDINET'S

Particular description of goods.—Candy.
Claims use since Aug. 10, 1909.

175,254. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) OLIVER C. IRWIN, New York, N. Y., assignor to The Superior Ice Company Inc., New York, N. Y., a Corporation of New York. Filed July 2, 1923. Serial No. 182,708.

SUPER-ICE

Particular description of goods.—Ice.
Claims use since July 1, 1921.

175,255. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 29, 1923. Serial No. 182,576.

STERLING

Particular description of goods.—Trunks, Suitcases, and Traveling Bags.
Claims use since February, 1911.

175,256. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BECKLIN WRENCH COMPANY, INC., Seattle, Wash. Filed June 19, 1923. Serial No. 182,197.

BECKLIN

Particular description of goods.—Wrenches.
Claims use since Jan. 1, 1921.

175,257. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) G. M. DAVIS REGULATOR COMPANY, Chicago, Ill. Filed June 16, 1923. Serial No. 182,089.

Supersensitive

Particular description of goods.—Regulating Valves.
Claims use since 1921.

175,258. (CLASS 5. ADHESIVES.) WAYLAND D. STAPLIN, doing business as Peerless Specialty Manufacturing Co., Wichita, Kans. Filed June 12, 1923. Serial No. 181,918.

PEERLESS PUNCTURE CURE



Particular description of goods.—Tire Puncture Compound.
Claims use since about Jan. 1, 1922.

175,259. (CLASS 37. PAPER AND STATIONERY.) GEORGE E. VAUGHAN, doing business as Acme Wire Goods Co., Jersey City, N. J. Filed June 9, 1923. Serial No. 181,793.

SUPERIOR

Particular description of goods.—Paper Clips.
Claims use since April, 1920.

175,260. (CLASS 7. CORDAGE.) THE PORTLAND CORDAGE CO., Portland, Oreg. Filed Aug. 4, 1923. Serial No. 184,101.

STANDARD MANILA

Particular description of goods.—Rope and Twine Made from Hard Fiber.
Claims use since March, 1914.

175,261. (CLASS 15. OILS AND GREASES.) WM. C. ROBINSON & SON CO., Baltimore, Md. Filed Sept. 4, 1923. Serial No. 185,319.

for your motors sake

Particular description of goods.—Lubricating Oils.
Claims use since 1905.

175,262. (CLASS 15. OILS AND GREASES.) THE BATTENFELD GREASE & OIL COMPANY, Kansas City, Mo. Filed Aug. 24, 1923. Serial No. 184,930.

BUSINESS IS INGREASING

Particular description of goods.—Lubricating Grease.
Claims use since 1920.

175,263. (CLASS 37. PAPER AND STATIONERY.) FORT HOWARD PAPER COMPANY, Green Bay, Wis. Filed Aug. 14, 1923. Serial No. 184,444.

KRAFT KLOTH

Particular description of goods.—Toilet Paper, Paper Napkins, Paper Towels, and Paper Tablecloths.
Claims use since Sept. 1, 1921.

175,264. (CLASS 2. RECEPTACLES.) FRED M. LONGNECKER, Delta, Ohio. Filed Aug. 7, 1922. Serial No. 167,879.

Kant-Leek

Particular description of goods.—Single-Service Trays and Dishes.
Claims use since October, 1921.

175,265. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) SAMUEL LAPIN, New York, N. Y. Filed Aug. 31, 1922. Serial No. 168,928.

REDYCUT

Particular description of goods.—Silk, Cotton, and Mercerized Thread for Stringing Beads or Pearls.
Claims use since about Dec. 1, 1921.

175,266. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ASTHMA-TAB LABORATORIES, Kansas City, Mo. Filed Oct. 9, 1922. Serial No. 170,468.

ASTHMA-TABS

Particular description of goods.—Preparation for the Relief of Asthma and Hay Fever.
Claims use since Aug. 9, 1922.

175,267. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WOLF, SAYER & HELLER, INC., Chicago, Ill. Filed Feb. 19, 1923. Serial No. 176,305.

Josef Mayer's Braunschweiger Leberwurst Gewürz

Particular description of goods.—Seasonings for Meat Products.
Claims use since January, 1922.

175,268. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LOUIS NEKRITZ, doing business as Perfect Polish Co., Brooklyn, N. Y. Filed Jan. 20, 1923. Serial No. 174,848.

IRON LUSTRE



Particular description of goods.—A Coating in the Nature of an Enamel or Paint for Metal Surfaces, Pipes, Window Screens, Baby Carriages, Hand Bags, Trunks, Sewing Machines, Fences, Automobiles, Tops, Upholstery, Leather Cushions, Bicycles, Picture Frames, Sinks, and Woodwork.
Claims use since Dec. 1, 1922.

175,269. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWIN M. MURPHEY, Macon, Miss. Filed Feb. 26, 1923. Serial No. 176,640.

FLAT BOX BLUING

Particular description of goods.—Bluing.
Claims use since Jan. 1, 1913.

175,270. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WINTER B. SWART, Brooklyn, N. Y. Filed Feb. 28, 1923. Serial No. 176,768.

"Beth Prather" CANDIES

Particular description of goods.—Candy.
Claims use since December, 1921.

175,271. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Mar. 10, 1923. Serial No. 177,214.

Melotone

Particular description of goods.—Book Paper, Cover Papers, and Post-Card Stock.
Claims use since March, 1922.

175,272. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OLYMPIA CANNING COMPANY, Olympia, Wash. Filed Mar. 29, 1923. Serial No. 178,272.

HOLSUM

Particular description of goods.—Canned Fruits and Canned Berries.
Claims use since June, 1922.

175,273. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALTOONA PACKING COMPANY, Astoria, Oreg. Filed Apr. 4, 1923. Serial No. 178,541.

Altoona

Particular description of goods.—Canned Fish.
Claims use since May 22, 1905.

175,274. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LAMINATED SHIM COMPANY, INC., Long Island City, N. Y. Filed Apr. 5, 1923. Serial No. 178,616.

FIT-ALL

Particular description of goods.—Shims and Shim Stock.
Claims use since September, 1920.

175,275. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Apr. 23, 1923. Serial No. 179,526.

Ruff-Dri

Particular description of goods.—Cotton Crape Goods in the Piece.
Claims use since Jan. 1, 1922.

175,276. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ALBERT E. ROSENBERG, doing business as Sterling Sales Co., St. Louis, Mo. Filed Mar. 26, 1923. Serial No. 178,064.



Particular description of goods.—Aluminum Mat Plate.
Claims use since Apr. 10, 1922.

175,277. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) HAZLETON SYRUP COMPANY, Hazleton, Pa. Filed Apr. 24, 1923. Serial No. 179,598.

FIRST PRIZE

The words constituting a part of the mark are imprinted in white upon a blue background, while the latter is defined by a red border.
Particular description of goods.—Canned Malt Sirup.
Claims use since Oct. 18, 1921.

175,278. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LEON A. LONG, Furman, S. C. Filed May 2, 1923. Serial No. 180,072.

MINUTE BEEF STEAK

Particular description of goods.—Cooked and Canned Beefsteak.
Claims use since Feb. 15, 1922.

175,279. (CLASS 37. PAPER AND STATIONERY.) ASSOCIATED MANUFACTURERS CO., Milwaukee, Wis. Filed May 22, 1923. Serial No. 180,956.

Can't Spread

Particular description of goods.—Blackboard Erasers.
Claims use since November, 1914.

175,280. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH SASSETTI, doing business as Aqua-Sulphur Company, Chicago, Ill. Filed May 23, 1923. Serial No. 181,046.

Aqua-Sulphur

Particular description of goods.—Sulphur Solution.
Claims use since Jan. 1, 1920.

175,281. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) LITTLE CAHABA COAL CO., Piper, Ala. Filed May 31, 1923. Serial No. 181,407.



The drawing is lined to indicate red.
Particular description of goods.—Coal.
Claims use since 1901.

175,282. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COLGATE & COMPANY, Jersey City, N. J., and New York, N. Y. Filed June 4, 1923. Serial No. 181,512.



Particular description of goods.—Shaving Soap.
Claims use since Aug. 15, 1916.

175,283. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) W. T. GRANT COMPANY, New York, N. Y. Filed June 7, 1923. Serial No. 181,639.

AMES MANUFACTURING CO.

Particular description of goods.—Hammers and Hatchets.
Claims use since Jan. 10, 1921.

TRADE-MARK REGISTRATIONS RENEWED.

23,339. LINOLEUMS AND WINDOW SHADES. Registered July 11, 1893. LYON, HALL & CO., Baltimore, Md. Renewed July 11, 1923, to James, Baron Ashton, doing business under the name of Jas. Williamson & Son, Lancaster, England, assignee.

23,703. LINIMENTS AND CROUP TINCTURES. Registered October 10, 1893. J. W. GARNEY & SON, Scranton, Pa. Renewed October 10, 1923, to The James W. Garney Estate, Scranton, Pa., assignee.

23,727. ICE AND ROLLER SKATES. Registered October 17, 1893. UNION HARDWARE COMPANY, Torrington, Conn., and New York, N. Y. Renewed October 17, 1923.

23,943. HOG LARD AND OIL. Registered December 26, 1893. THE W. J. WILCOX LARD AND REFINING COMPANY. Renewed December 26, 1923, to The American Cotton Oil Company, Guttenberg, N. J., and New York, N. Y., assignee.

23,962. PIECE GOODS CONTAINING WOOL, WORSTED, OR HAIR. Registered January 2, 1894. B. PRIESTLEY & Co., Bradford, England. Renewed January 2, 1924, to B. Priestley & Co., Inc., New York, N. Y., a Corporation of New York, assignee.

23,963. PIECE GOODS IN WHICH SILK PREDOMINATES. Registered January 2, 1894. B. PRIESTLEY & Co., Bradford, England. Renewed January 2, 1924, to B. Priestley & Co., Inc., New York, N. Y., a Corporation of New York, assignee.

23,987. BRONCHIAL WAFERS, TROCHES, AND LOZENGES. Registered January 2, 1894. THE STONE MEDICINE COMPANY. Renewed January 2, 1924, to Frank Z. Woods, Chicago, Ill., assignee.

23,991. PIECE GOODS IN WHICH SILK PREDOMINATES. Registered January 2, 1894. B. PRIESTLEY & Co., Bradford, England. Renewed January 2, 1924, to B. Priestley & Co., Inc., New York, N. Y., a Corporation of New York, assignee.

24,007. SALT. Registered January 9, 1894. CRYSTALINE SALT CO., Boston, Mass. Renewed January 9, 1924, to Remington Salt Company, Ithaca, N. Y., a Corporation of New York, assignee.

24,111. CLOTHES WRINGERS. Registered January 23, 1894. THE AMERICAN WRINGER COMPANY, Providence, R. I., and New York and Auburn, N. Y. Renewed January 23, 1924, to American Wringer Company Inc., Woonsocket, R. I., assignee.

24,114. CLOTHES WRINGERS. Registered January 23, 1894. THE AMERICAN WRINGER COMPANY, Providence, R. I., and New York and Auburn, N. Y. Renewed January 23, 1924, to American Wringer Company, Inc., Woonsocket, R. I., assignee.

24,115. CLOTHES WRINGERS. Registered January 23, 1894. THE AMERICAN WRINGER COMPANY, Providence, R. I., and New York and Auburn, N. Y. Renewed January 23, 1924, to American Wringer Company, Inc., Woonsocket, R. I., assignee.

24,116. CLOTHES WRINGERS. Registered January 23, 1894. THE AMERICAN WRINGER COMPANY, Providence, R. I., and New York and Auburn, N. Y. Renewed January 23, 1924, to American Wringer Company Inc., Woonsocket, R. I., assignee.

24,131. COOKED GRANULATED WHEAT. Registered January 30, 1894. OUR HOME GRANULA CO., Dansville, N. Y. Renewed January 30, 1924, to Our Home Granula Company, Dansville, N. Y., successor.

24,186. A COSMETIC, LOTION CREAM, JELLY, AND SOAP FOR THE TOILET. Registered February 6, 1894. SYLVAN TOILET CO., Detroit, Mich. Renewed February 6, 1924, to Albert F. Wood, Detroit, Mich., assignee.

24,202. NIGHT ROBES. Registered February 13, 1894. E. ROSENFELD & Co. Renewed February 13, 1924, to Faultless Nightwear Corporation (E. Rosenfeld & Co.), Baltimore, Md., assignee.

LABELS

REGISTERED OCTOBER 30, 1923.

26,502.—*Title:* GENUINE RĀ-DER-MO COMPLEXION CREAM. For Complexion Cream. JOSEPH FARRELLY, doing business under the name of Radermo Laboratories, Pelham, N. Y. Published September 7, 1923.

26,503.—*Title:* JAP. AN. AND A REPRESENTATION OF TWO EYES. For a Polish and Coating for Japanned, Varnished, or Enameled Surfaces. FRANK S. KELLY, doing business as Kelly's Japan Polish Co., Chicago, Ill. Published October 2, 1922.

26,504.—*Title:* DIXIE ROSE. For Hair Nets. THE G. D. Milligan Company, Springfield, Mo. Published June 18, 1923.

26,505.—*Title:* ROSE'S PURE HONEY. For Honey. SIMON B. ROSE, doing business as S. B. Rose & Co., New York, N. Y. Published July 20, 1923.

26,506.—*Title:* KANDY PACKS. For Candy. UNITED DRUG COMPANY, doing business under the name of United Candy Company, Boston, Mass. Published July 1, 1923.

PRINTS

REGISTERED OCTOBER 30, 1923.

6,945.—*Title:* RING HER AT BEIMAN'S. For Jewelry. D. BEIMAN AND SONS, Chicago, Ill. Published November 1, 1922.

6,946.—*Title:* THE RAYBESTOS WAY IS THE SAFE WAY. For Brakes and Brake Linings. THE RAYBESTOS COMPANY, Bridgeport, Conn. Published July 1, 1923.

6,947.—*Title:* ANOTHER GREAT ACHIEVEMENT BY THE SQUIBB LABORATORIES. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published January 31, 1923.

6,948.—*Title:* NOW YOU CAN KNOW WHAT YOUR DENTAL CREAM WILL DO. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published January 25, 1923.

6,949.—*Title:* ITS POINTS OF ADVANTAGE. For Solargentum Squibb. E. R. SQUIBB & SONS, New York, N. Y. Published May 3, 1923.

6,950.—*Title:* PLEASANT FLAVOR MEANS PREFERRED SALES. For Aromatic Squibb. E. R. SQUIBB & SONS, New York, N. Y. Published June 1, 1923.

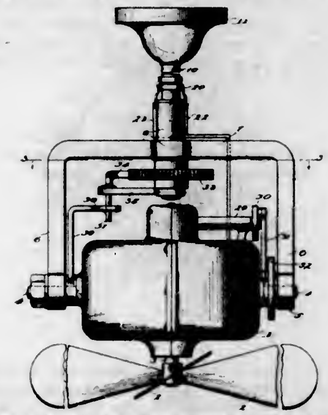
6,951.—*Title:* SQUIBB'S HEALTHY BABY CONTEST. For Nursery Products. E. R. SQUIBB & SONS, New York, N. Y. Published April 1, 1923.

6,952.—*Title:* SANY E NAML. For Enamel Fixtures. THE WHYT-E-NAML SPECIALTY CO., INC., New York, N. Y. Published June 12, 1923.

REISSUES

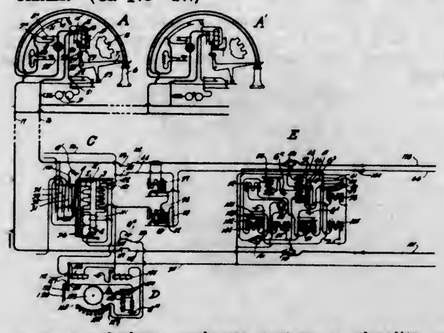
OCTOBER 30, 1923.

15,705. FANS. MAURICE M. GLASSER, Charleston, S. C. Filed Aug. 16, 1921. Serial No. 492,851. Original No. 1,354,098, dated Sept. 28, 1920, Serial No. 329,960, filed Oct. 11, 1919. 14 Claims. (Cl. 230—1.)



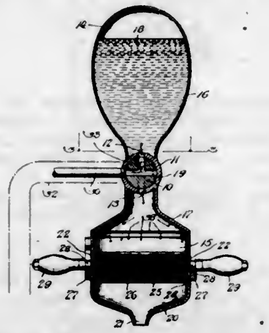
1. In an electric fan, the combination with the motor casing, of a yoke comprising a body and arms having bearings, the motor casing having journal pins journaled in the bearings, a connection between the fan and the yoke for oscillating the motor casing on the journal pins when the fan is rotated, a sleeve extending transversely of the body of the yoke at the center thereof, a post for supporting the fan on which the sleeve is journaled, a ratchet wheel secured to the lower end of the post, an arm pivoted to the post below the ratchet wheel, a pawl carried by the arm and engaging the wheel, said arm having a depending pin, and a fork carried by the motor casing, the pin engaging between the arms of the fork.

15,706. TWO-WIRE PARTY-LINE LOCKOUT TELEPHONE SYSTEM. TALBOT G. MARTIN, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 7, 1921. Serial No. 520,699. Original application filed Jan. 3, 1911, Serial No. 600,610. Renewed Apr. 29, 1918, Serial No. 231,539. Patent No. 1,291,587. Divided and application filed Dec. 7, 1918, Serial No. 265,813. Original No. 1,324,202, dated Dec. 9, 1919. 18 Claims. (Cl. 179—17.)



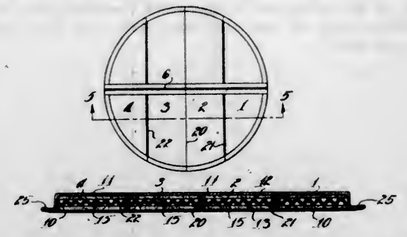
1. In a telephone exchange system, a plurality of lines, automatic means for establishing a connection between a calling and a called line, automatic means operative as a result of the establishment of the connection for ringing called lines, a switch for producing interruptions in said calling line, and means responsive to said interruptions for reringing called lines.

15,707. COFFEE-BREWING APPARATUS. FRANK H. SIMONTON, New York, N. Y., assignor, by direct and mesne assignments, of thirty-eight and one-half per cent to Alfred A. Smith and twenty-five per cent to John E. Ferdinand, jr., both of New York, N. Y. Filed Nov. 15, 1922. Serial No. 601,156. Original application filed Dec. 10, 1918, Serial No. 266,096. Renewed Aug. 6, 1921, Serial No. 490,349. Original No. 1,409,123, dated Mar. 7, 1922. 10 Claims. (Cl. 53—3.)



1. An apparatus as characterized comprising a receptacle having relatively small openings for holding pulverized coffee; a holder for said receptacle; an inverted container for a determinate quantity of liquid, said container being closed at the top; means including a valve having a plurality of communicating ducts therein for successively delivering water to said container and from said container to said receptacle, said water passing through said pulverized coffee therein, and a means for delivering steam under pressure to said receptacle simultaneously with the delivery of the water thereto so that the steam may force the water through the pulverized coffee.

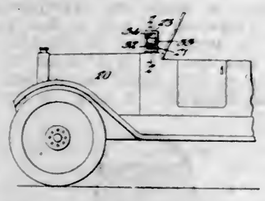
15,708. TABLE MAT. CHARLES LAIDMAN, Cleveland, Ohio. Filed Apr. 26, 1923. Serial No. 634,860. Original No. 1,378,471, dated May 17, 1921, Serial No. 385,124, filed May 29, 1920. 5 Claims. (Cl. 65—53.)



1. A table mat comprising a plurality of heat insulating sections and a pair of flexible covering sheets disposed on the opposite sides of said heat insulating sections respectively and secured thereto, said covering sheets being arranged to provide hinges which are defined by a flat portion of one of the sheets extending

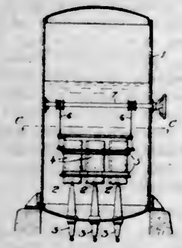
across the joint and a portion of the opposite sheet folded to extend between the adjoining edges of the sections, the innermost edge of the fold being in engagement with the inner side of the first mentioned sheet, and each hinge opening in a direction opposite to the direction of the adjacent hinge.

15,709. THEFT DETECTOR FOR AUTOMOBILES. JOSEPH J. MICHALSKI, Buffalo, N. Y. Filed Sept. 9, 1922. Serial No. 588,476. Original No. 1,414,521, dated May 2, 1922, Serial No. 490,786, filed Aug. 8, 1921. 19 Claims. (Cl. 24—65.)



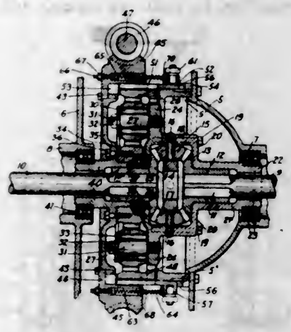
1. A theft detector for automobiles and the like, comprising an opaque casing having a transparent portion, and manually controlled indicating means having contrasting portions each movable into register with said transparent portion, one of said contrasting portions being concealed by the opaque body of said casing when the other is displayed through said transparent portion.

15,710. ELECTRIC STEAM AND HOT-WATER BOILER. NILS RICHARD FORSSBLAD, Vasteras, Sweden. Filed Aug. 29, 1922. Serial No. 585,050. Original No. 1,386,487, dated Aug. 2, 1921, Serial No. 488,033, filed June 10, 1920. 3 Claims. (Cl. 219—40.)



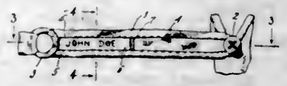
1. In an electrical steam or hot-water boiler, a number of submerged electrodes introduced through the bottom of the boiler, and a submerged insulating tube surrounding each of said electrodes, said tube being open at both ends.

15,711. DRIVING MECHANISM FOR MOTOR CARS. ARTHUR F. BAKER, Oakland, Calif., assignor to The Perfecto Gear Differential Co., Seattle, Wash., a Corporation. Filed Apr. 16, 1923. Serial No. 632,583. Original No. 1,329,319, dated Jan. 27, 1920, Serial No. 214,230, filed Jan. 28, 1918. 20 Claims. (Cl. 74—99.)



1. In a power transmission device in combination, two axles, a differential mechanism through which said axles are driven, a planetary gear system including a ring gear and to which the power is applied, and means for driving the differential through the intermediate gears of the planetary gear system.

15,712. IDENTIFICATION MEANS FOR UMBRELLAS, PARASOLS, ETC. DANIEL HIRSCH, New York, N. Y. Filed Apr. 4, 1923. Serial No. 629,939. Original No. 1,411,096, dated Mar. 28, 1922, Serial No. 468,563, filed May 11, 1921. 5 Claims. (Cl. 40—21.)

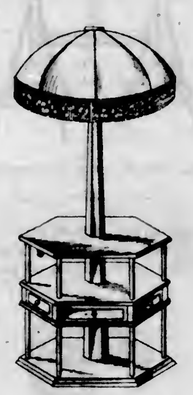


1. An identification device consisting of a flexible band, separable fastening members for said band disposed one adjacent each end thereof, said band having returned side portions, a transparent plate, longitudinal securing means passing through said band, portions and plate, and an identification card insertible beneath said plate to abut one of said members at one end and to engage said securing means at its longitudinal edges.

DESIGNS

OCTOBER 30, 1923.

63,163. COMBINED LAMP PEDESTAL AND STAND. GOTTHARD HÄFELE, Buffalo, N. Y. Filed Feb. 13, 1923. Serial No. 5,165. Term of patent 3½ years.



The ornamental design for a combined lamp pedestal and stand, as shown.

63,164. LANTERN LAMP. ALBERT J. D. OHM, Astoria, N. Y., assignor to Max Schaffer Co., a Corporation of New York. Filed Mar. 17, 1923. Serial No. 5,501. Term of patent 3½ years.



The ornamental design for a lantern lamp as shown.

63,165. GARDEN FOUNTAIN. EDWARD ZINIKER, Eugene, Oreg. Filed July 1, 1922. Serial No. 2,913. Term of patent 14 years.



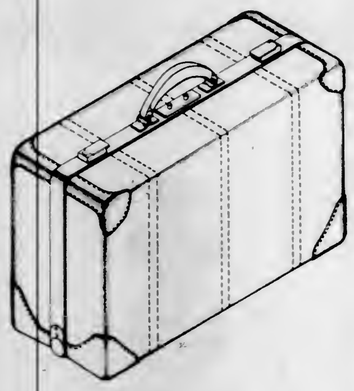
The ornamental design for a garden fountain, as shown.

63,166. SPOON OR SIMILAR ARTICLE. GROSVENOR N. ALLEN, Oneida, N. Y., assignor to Oneida Community, Limited, Oneida, N. Y. Filed Feb. 7, 1923. Serial No. 5,099. Term of patent 14 years.



The ornamental design for a spoon or similar article, as shown.

63,167. SUITCASE, BAG, OR SIMILAR ARTICLE. MAYER AXELMAN and HARRY W. AXELMAN, Chicago, Ill. Filed May 31, 1921. Serial No. 473,910. Term of patent 3½ years.



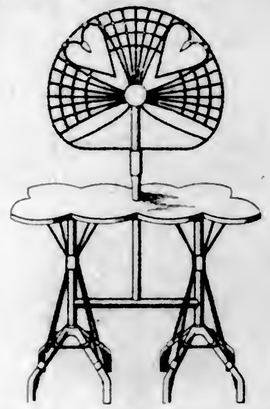
The ornamental design for a suitcase, bag, or similar article as shown.

63,168. FLOWER STAND. HERBERT V. BIGHAM, Roaring Springs, Tex. Filed Feb. 19, 1923. Serial No. 5,208. Term of patent 3½ years.



The ornamental design for a flower stand, as shown.

63,169. FLOWER STAND. HERBERT V. BIGHAM, Roaring Springs, Tex. Filed Feb. 19, 1923. Serial No. 5,209. Term of patent 3½ years.



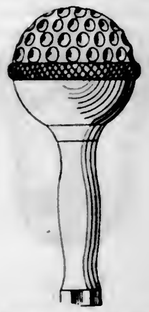
The ornamental design for a flower stand as shown.

63,170. AUTOMOBILE GEAR-SHIFT-LEVER GRIP. RAYMOND R. FUDGE, Fort Worth, Tex. Filed Mar. 27, 1923. Serial No. 5,609. Term of patent 7 years.



The ornamental design for an automobile gear shift lever grip, as shown.

63,171. AUTOMOBILE GEAR-SHIFT-LEVER GRIP. RAYMOND R. FUDGE, Fort Worth, Tex. Filed Mar. 27, 1923. Serial No. 5,610. Term of patent 7 years.



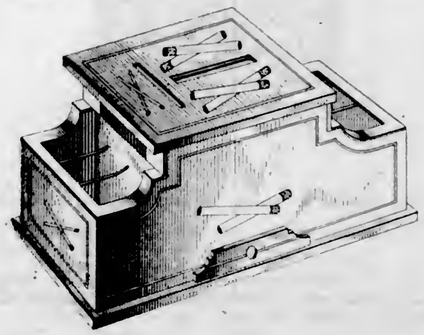
The ornamental design for an automobile gear shift lever grip, as shown.

63,172. GLOBE FOR LIGHTING FIXTURES. FREDERICK W. GEHRKE, Philadelphia, Pa., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 16, 1922. Serial No. 2,703. Term of patent 7 years.



The ornamental design for a globe for lighting fixtures, as shown.

63,173. CIGARETTE AND MATCH DISPENSING RECEPTACLE. SAVERIO CREAZZO, New York, N. Y. Filed Nov. 18, 1922. Serial No. 4,326. Term of patent 7 years.



The ornamental design for a cigarette and match dispensing receptacle, as shown.

63,174. SPOON OR SIMILAR ARTICLE. HENRIK HILLBOM, Wallingford, Conn., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn., a Corporation. Filed Jan. 30, 1923. Serial No. 5,032. Term of patent 14 years.



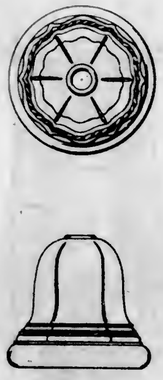
The ornamental design for a spoon or similar article, as shown.

63,175. CANDLE CUP FOR LIGHTING FIXTURES. HAMILTON T. HOWELL, New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Oct. 28, 1922. Serial No. 4,125. Term of patent 14 years.



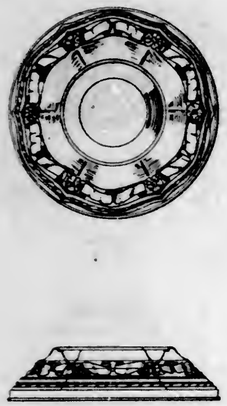
The ornamental design for a candle cup for lighting fixtures, as shown.

63,176. SOCKET COVER FOR LIGHTING FIXTURES. HAMILTON T. HOWELL, New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Oct. 28, 1922. Serial No. 4,126. Term of patent 14 years.



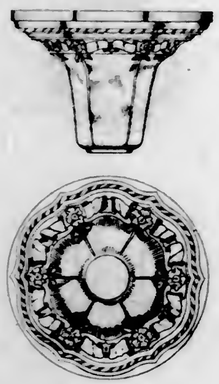
The ornamental design for a socket cover for lighting fixtures, as shown.

63,177. BALL LAMP COVER FOR LIGHTING FIXTURES. HAMILTON T. HOWELL, New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Oct. 28, 1922. Serial No. 4,128. Term of patent 14 years.



The ornamental design for a ball lamp cover for lighting fixtures, as shown.

63,178. CANOPY FOR LIGHTING FIXTURES. HAMILTON T. HOWELL, New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Oct. 28, 1922. Serial No. 4,130. Term of patent 14 years.



The ornamental design for a canopy for lighting fixtures as shown.

63,179. EMBROIDERED FABRIC. CHARLES F. IKLÉ, New York, N. Y. Filed Mar. 8, 1923. Serial No. 5,407. Term of patent 3½ years.



The ornamental design for embroidered fabric, as shown.

63,180. EMBROIDERED FABRIC. CHARLES F. IKLÉ, New York, N. Y. Filed Mar. 28, 1923. Serial No. 5,621. Term of patent 3½ years.



The ornamental design for embroidered fabric, as shown.

63,181. EMBROIDERED FABRIC. CHARLES F. IKLÉ, New York, N. Y. Filed Mar. 28, 1923. Serial No. 5,622. Term of patent 3½ years.



The ornamental design for embroidered fabric, as shown.

63,182. EMBROIDERED FABRIC. CHARLES F. IKLÉ, New York, N. Y. Filed Mar. 28, 1923. Serial No. 5,623. Term of patent 3½ years.



The ornamental design for embroidered fabric as shown.

63,183. ADVERTISING SIGN. HENRY C. JARVIS, New York, N. Y. Filed Dec. 9, 1921. Serial No. 521,253. Term of patent 3½ years.



The ornamental design for an advertising sign as shown.

63,184. COMBINED LAMP SHADE AND STAND. JACOB F. KOHLER, New York, N. Y., assignor to Metal Lamp Corporation, a Corporation of New York. Filed Jan. 13, 1923. Serial No. 4,875. Term of patent 3½ years.



The ornamental design for a combined lamp shade and stand as shown.

63,185. COMBINED LAMP SHADE AND STAND. JACOB F. KOHLER, New York, N. Y., assignor to Metal Lamp Corporation, a Corporation of New York. Filed Jan. 15, 1923. Serial No. 4,885. Term of patent 3½ years.



The ornamental design for a combined lamp shade and stand as shown.

63,186. COMBINED LAMP SHADE AND STAND. JACOB F. KOHLER, New York, N. Y., assignor to Metal Lamp Corporation, a Corporation of New York. Filed Jan. 15, 1923. Serial No. 4,886. Term of patent 3½ years.



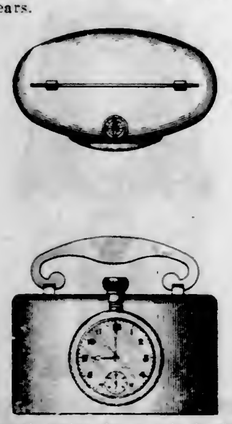
The ornamental design for a combined lamp shade and stand as shown.

63,187. PHONOGRAPH CABINET. NATHAN KRASNER, New York, N. Y. Filed Nov. 8, 1921. Serial No. 513,827. Term of patent 3½ years.



The ornamental design for a phonograph cabinet as shown.

63,188. COIN BANK. ISIDOR J. KUSEL, Chicago, Ill. Filed June 10, 1922. Serial No. 2,611. Term of patent 3½ years.



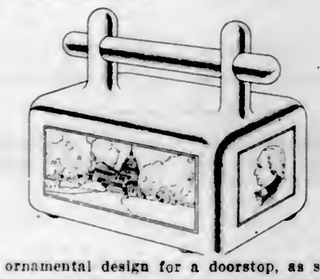
The ornamental design for a coin bank, as shown.

63,189. IDENTIFICATION AND REGISTRATION PLATE FOR AUTOMOBILES. WILLIAM F. LITTLE, St. Louis, Mo. Filed Oct. 23, 1922. Serial No. 4,057. Term of patent 14 years.



The ornamental design for an identification and registration plate for automobiles, as shown.

63,190. DOORSTOP. JAMES W. MCELROY, Philadelphia, Pa. Filed Mar. 27, 1923. Serial No. 5,611. Term of patent 7 years.



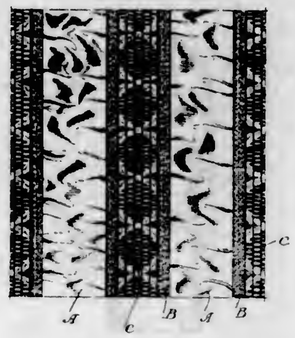
The ornamental design for a doorstop, as shown.

63,191. LIGHTING-FIXTURE ARM. ABRAHAM MILLER, New York, N. Y. Filed Feb. 21, 1923. Serial No. 5,236. Term of patent 3½ years.



The ornamental design for a lighting fixture arm, as shown.

63,192. TEXTILE FABRIC. WALTER MUELBERGER, Maplewood, N. J., assignor to Nathan & Cohen Co. Inc., New York, N. Y., a Corporation of New York. Filed Feb. 19, 1923. Serial No. 5,204. Term of patent 3½ years.



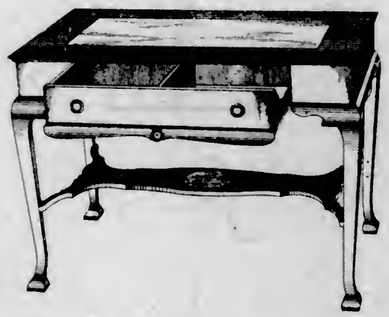
The ornamental design for a textile fabric substantially as shown and described.

63,193. EYEGLASS LENS. FRANK G. MURPHY, Mason City, Iowa. Filed Feb. 13, 1923. Serial No. 5,164. Term of patent 14 years.



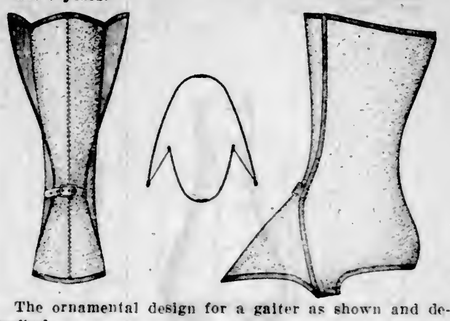
The ornamental design for eyeglass lens as shown.

63,194. TABLE. JOHN PETERSON, Faribault, Minn. Filed Dec. 22, 1922. Serial No. 4,680. Term of patent 3½ years.



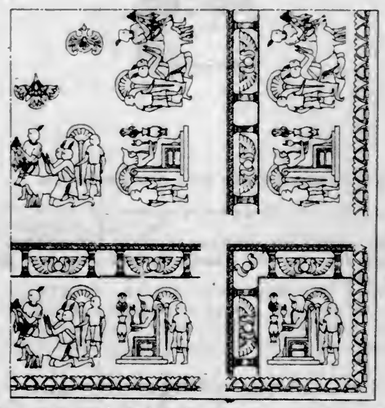
The ornamental design for a table, as shown.

63,195. GAITER. HERBERT S. RAUH, New York, N. Y. Filed May 22, 1922. Serial No. 2,367. Term of patent 7 years.



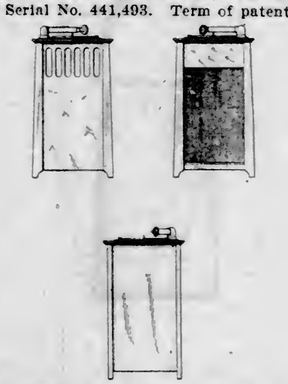
The ornamental design for a gaiter as shown and described.

63,196. WOVEN FABRIC. FRANK REEVES, Philadelphia, Pa., assignor to Gardner Textile Co., New York, N. Y., a Corporation of New York. Filed May 29, 1923. Serial No. 6,314. Term of patent 3½ years.



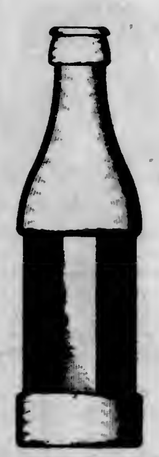
The ornamental design for a woven fabric, substantially as shown.

63,197. PHONOGRAPH CABINET. STANLEY ROTH and CLEMENT F. ROMADKA, Milwaukee, Wis. Filed Jan. 31, 1921. Serial No. 441,493. Term of patent 3½ years.



The ornamental design for a phonograph cabinet as shown.

63,198. BOTTLE. CHAPMAN J. ROOT, Terre Haute, Ind. Filed Jan. 30, 1922. Serial No. 429. Term of patent 14 years.



The ornamental design for a bottle as shown.

63,199. BOTTLE. WILLIAM R. ROOT, Terre Haute, Ind. Filed Jan. 30, 1922. Serial No. 442. Term of patent 14 years.



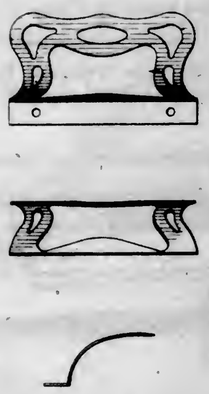
The ornamental design for a bottle as shown.

63,200. BOTTLE. CHAPMAN J. ROOT, Terre Haute, Ind. Filed Nov. 25, 1921. Serial No. 517,780. Term of patent 14 years.



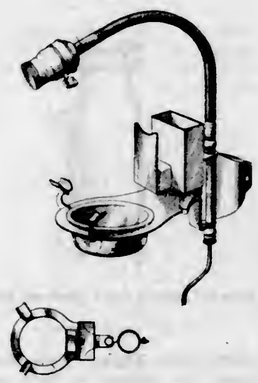
An ornamental design for a bottle as shown.

63,201. TRAY HANDLE. LOUIS M. SCHNITZER and LEON GARROWAY, Brooklyn, and NATHAN GELFMAN, New York, N. Y. Filed Nov. 22, 1921. Serial No. 517,116. Term of patent 3½ years.



The ornamental design for a tray handle, as shown.

63,202. SMOKER'S STAND ATTACHMENT FOR BEDS. WILLIAM SCYZORYK, Detroit, Mich. Filed Nov. 11, 1922. Serial No. 4,262. Term of patent 3½ years.



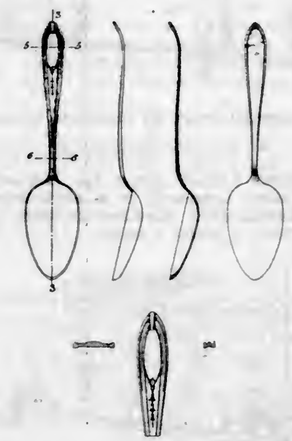
The ornamental design for a smoker's stand attachment for beds, as shown.

63,203. CASING FOR VIOLET-RAY GENERATORS. WILLIAM GENTRY SHELTON, New York, N. Y. Filed Feb. 3, 1922. Serial No. 523. Term of patent 14 years.



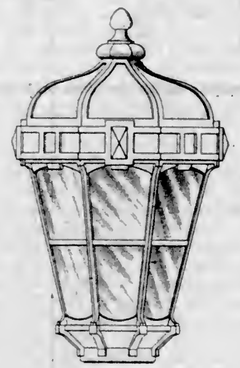
The ornamental design for a casing for violet-ray generator, as shown.

63,204. SPOON OR SIMILAR ARTICLE. AXEL H. STAF, Providence, R. I., assignor to Gorham Manufacturing Company, Providence, R. I., a Corporation of Rhode Island. Filed Feb. 25, 1922. Serial No. 901. Term of patent 14 years.



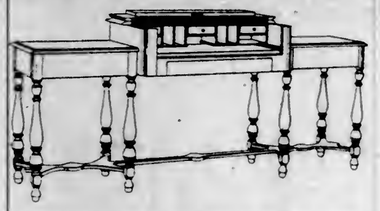
A spoon or similar article embellished with the surface ornamentation as shown.

63,205. LANTERN. RALF T. TOENSFELDT, St. Louis, Mo., assignor to Holophane Glass Co., Inc., New York, N. Y., a Corporation of New Jersey. Filed Mar. 21, 1923. Serial No. 5,553. Term of patent 14 years.



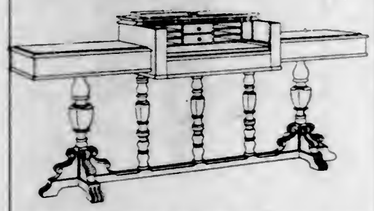
The ornamental design for a lantern, as shown.

63,206. DESK TABLE. PETER VAN DOMMELEN, Grand Rapids, Mich., assignor to H. E. Shaw Furniture Co., Grand Rapids, Mich. Filed May 15, 1922. Serial No. 2,235. Term of patent 7 years.



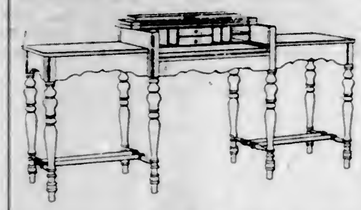
The ornamental design for desk-table, as shown.

63,207. DESK TABLE. PETER VAN DOMMELEN, Grand Rapids, Mich., assignor to H. E. Shaw Furniture Co., Grand Rapids, Mich. Filed May 15, 1922. Serial No. 2,236. Term of patent 7 years.



The ornamental design for desk-table, as shown.

63,208. DESK TABLE. PETER VAN DOMMELEN, Grand Rapids, Mich., assignor to H. E. Shaw Furniture Co., Grand Rapids, Mich. Filed May 15, 1922. Serial No. 2,238. Term of patent 7 years.



The ornamental design for desk-table, as shown.

63,209. PERFUME BOTTLE. CARL WEEKS, Des Moines, Iowa. Filed June 5, 1922. Serial No. 2,532. Term of patent 14 years.



The ornamental design for a perfume bottle, as shown.

63,210. TIMEPIECE HAND. LOIS MCG. WILLIAMS, Fort Thomas, Ky., assignor to Elgin National Watch Company, Elgin, Ill., a Corporation of Illinois. Filed May 15, 1922. Serial No. 2,245. Term of patent 14 years.



The ornamental design for a timepiece hand, substantially as shown.

63,211. TIMEPIECE HAND. LOIS MCG. WILLIAMS, Fort Thomas, Ky., assignor to Elgin National Watch Company, Elgin, Ill., a Corporation of Illinois. Filed May 15, 1922. Serial No. 2,247. Term of patent 14 years.

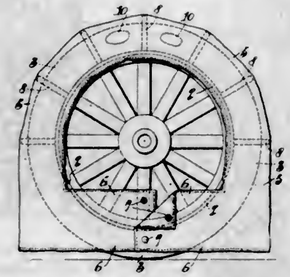


The ornamental design for a timepiece hand, substantially as shown.

PATENTS

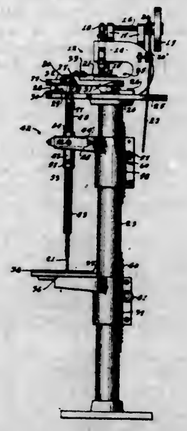
GRANTED OCTOBER 30, 1923.

1,472,033. SUN-SHELTERING COVER FOR PNEUMATIC TIRES. HARLEY C. E. ANDERSON, North Vancouver, British Columbia, Canada. Filed Aug. 17, 1922. Serial No. 582,390. 3 Claims. (Cl. 150—54.)



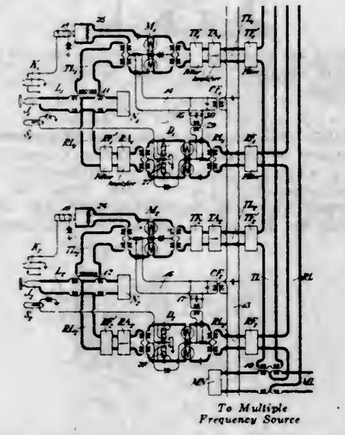
1. A removable protective cover for a pneumatic tire, said cover comprising a strip of flexible material adapted in width to encircle the cross section of the tire on the rim and in length to encircle the tire on the wheel and to extend to near the ground on each side, and means for supporting this cover from the rim of the wheel to preserve an air space between the cover and the tire, said means comprising strips of resilient metal bent to encircle the tire in cross section and secured at intervals apart to one face of the cover, the ends of which strips are adapted to exercise a yielding grip on the rim of the wheel.

1,472,034. METAL-WORKING MACHINE. STEAD A. ASQUITH, Los Angeles, Calif. Filed May 11, 1922. Serial No. 560,159. 30 Claims. (Cl. 164—86.)



1. In a metal working machine, a work holder universally movable on a fixed plane, a tracer arm universally connected to said work holder, a sleeve in which said arm is slidable, a vertically adjustable element for holding said sleeve at any predetermined point intermediate of the ends of said tracer arm; said sleeve universally mounted in said element, a dummy arm spaced from said tracer arm universally connected to said work holder, and a second sleeve in which said dummy arm is slidable; said second sleeve also universally mounted in said vertically adjustable element.

1,472,035. MEANS FOR SIGNALING OVER MULTIPLEX TRANSMISSION CHANNELS. HERMAN A. AFFEL, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 29, 1919. Serial No. 314,070. 9 Claims. (Cl. 179—15.)

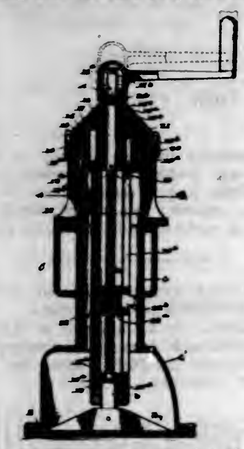


1. In a signaling system, an arrangement for modulating high frequency carrier oscillations in accordance with signals, said modulating arrangement being arranged to normally suppress the transmission of the carrier oscillations, means to impress telephone currents upon said modulating arrangement whereby oscillations modulated in accordance with said telephone currents will be transmitted, and means whereby in response to a ringing signal said modulating arrangement will permit the transmission of oscillations of constant amplitude.

1,472,036. MEANS FOR RESURFACING CYLINDERS. OLAF A. ANDERSON and JOHN M. MACRAE, Detroit, Mich., assignors to Michigan Machine Co., Detroit, Mich., a Corporation of Michigan. Filed July 14, 1919. Serial No. 310,770. 44 Claims. (Cl. 29—26.)

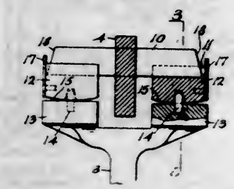
1. In portable apparatus for re-surfacing cylinders, a cutting tool, and means for supporting such tool relative to the cylinder bore to provide tool movement in the direction of length of the bore with the movement selectively through a cutting helical path or a path differing from such helical path in the rate of advance through the bore under similar speed conditions of power application, said means including a rotatable tubular element extending axially of the bore and operative to drive and guide the tool, means for advancing the tool relative to the element during tool movement in either path, and means positionable at opposite ends of the

cylinder bore for supporting said tubular element with its axis alined with the bore axis, said advancing means



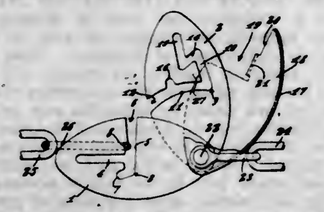
including an actuating means forming the power source for said elements during tool movement in either of such paths.

1,472,037. SCALE. HOLLIS B. BAGG, Watertown, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Original application filed Aug. 7, 1918, Serial No. 248,679. Divided and this application filed Apr. 24, 1920. Serial No. 376,202. 2 Claims. (Cl. 74—104.)



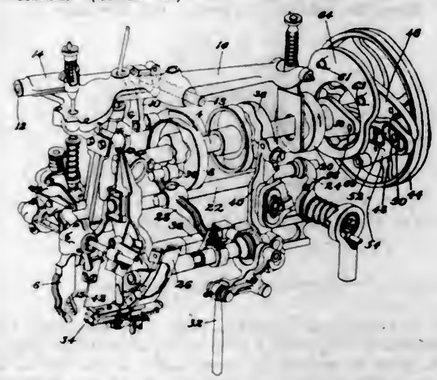
1. In a bearing, the combination with a knife edge pivot bar, of a support therefor including two recessed blocks in which the pivot engages, a base on which the support rests, one of the meeting faces of said parts being rounded to permit a rocking movement, whereby the support is enabled to have a rocking movement with respect to the base, and pivot pins on one of the meeting faces of said parts received by recesses in the other faces, whereby the support may have a pivotal movement with respect to the base.

1,472,038. FASTENER FOR AUTOMOBILE CHAINS. CHESLEY V. BANES, Kinross, Iowa. Filed Dec. 17, 1921. Serial No. 523,130. 3 Claims. (Cl. 24—242.)



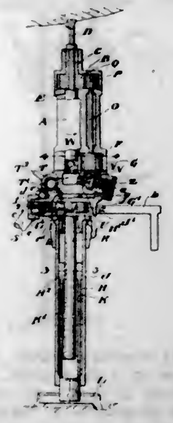
1. A fastener comprising pivotally connected first and second members, each of said members being provided with an approximately L-shaped slot, each slot comprising a transverse head and a longitudinal shank, the heads of the slots opening at one end through opposite edges of the members, the shank of the slot in the second member having a transverse arm opening into a longitudinal extension, the extension being adapted to be brought into registration with the shank of the slot in the first member, and a cover pivoted to said members and carrying a latch which is engaged in the shank of the slot of the first member when the fastener is closed.

1,472,039. LASTING MACHINE. ARTHUR BATES, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 16, 1921. Serial No. 470,161. 34 Claims. (Cl. 12—2.)



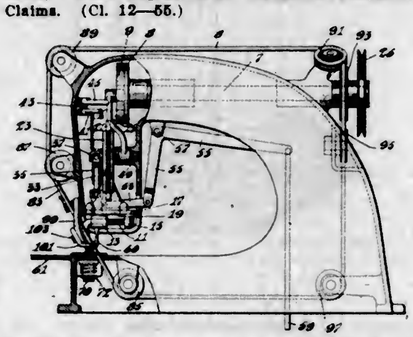
1. In a machine having instrumentalities for effecting successive operations upon the work, the combination of operating means common to the instrumentalities for operating them in timed relation, a driving member arranged for rotation at a uniform angular velocity, and means between the driving member and said operating means acting to retard movement of said operating means relatively to the driving member while one of said instrumentalities is operating and for accelerating movement of said operating means above that of the driving member at another time in the cycle of the machine.

1,472,040. AUTOMATIC AIR-FEED AND ROTATION-MOTOR CONTROL FOR ROCK DRILLS. LEWIS C. BAYLES, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 12, 1921. Serial No. 514,648. 11 Claims. (Cl. 121—5.)



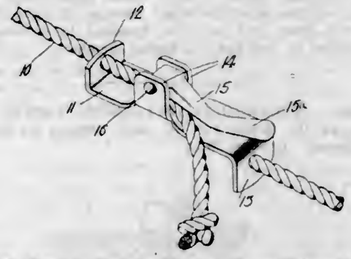
1. A rock drill of the hammer type, having a fluid actuated rotation motor and a fluid pressure feeding element, and automatic controlling means for increasing the rotation by opening communication for fluid pressure from the feeding element to the rotation motor.

1,472,041. FOLDING MACHINE. LEWIS J. BAZZONI, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 4, 1919. Serial No. 315,181. 26 Claims. (Cl. 12—55.)



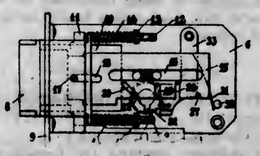
1. A folding machine, having, in combination, a stationary support for the work, an endless folder having its operative run inclined to the surface of the support, and means for pressing the fold.

1,472,042. CLOTHESLINE CLAMP. ANTON BETTINARDI, Jersey City, N. J. Filed Apr. 18, 1922. Serial No. 554,921. 1 Claim. (Cl. 24—134.)



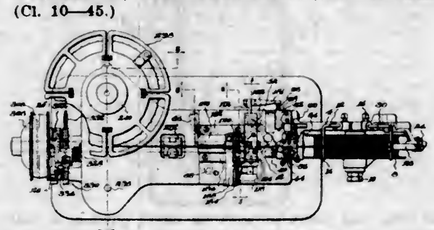
A rope clamp of the class described comprising a plate having oppositely disposed bent ends provided with apertures to receive a rope trained therethrough the material of said plate having upwardly struck ears on each side thereof and substantially intermediate the ends, a curved lever pivotally connected to the said ears, said lever having an enlarged grooved head at its pivoted connection for clamping a rope on the plate.

1,472,043. LOCK. ADOLF BOGE, Solingen, Germany. Filed Aug. 26, 1921. Serial No. 495,569. 4 Claims. (Cl. 70—46.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



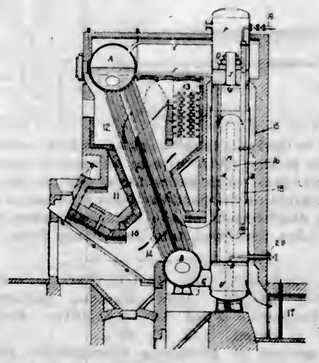
1. A safety door lock comprising a toothed bolt; a bolt-driving member consisting of two rings with a key-opening in each and pins connecting the rings and adapted to engage with the teeth of the bolt; cylinder locks arranged at opposite sides of the door and having key-passages in line with the said key-openings, a key adapted to be inserted through any of the said key-passages into a said opening and to thus couple a cylinder lock with the bolt-driving member.

1,472,044. METHOD AND APPARATUS FOR PRODUCING NAIL STRINGS. JAMES A. BROGAN, Lawrence, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 22, 1920. Serial No. 367,751. 48 Claims. (Cl. 10—45.)



1. That improvement in methods of making nail strings from strips of stock which comprises gripping a strip of stock at localities spaced along the length of the strip, and forcing the gripped portions of the strip toward each other to form a head for a nail of the nail string.

1,472,045. STEAM BOILER. ALBERT L. BRUEGGEMAN, Newark, N. J. Filed Apr. 14, 1921. Serial No. 461,333. 8 Claims. (Cl. 122—428.)

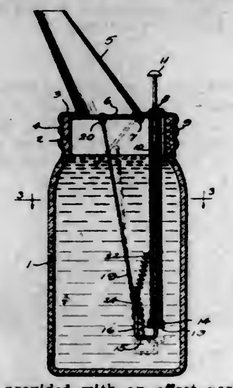


1. A steam boiler comprising upper and lower drums, a bank of tubes connecting said drums, and a reservoir having a steam dome at the top, a storage compartment beneath it, and a bottom compartment beneath the storage compartment, tubes connecting the upper and lower compartments of the reservoir, water tubes connecting the upper drum and the steam dome below the water level, tubes connecting the upper part of the upper drum with the steam dome, and a connection between the lower compartment of the reservoir and the lower drum.

1,472,046. DISPENSING DEVICE. ADDIE E. CANTRELL, Camp Point, Ill. Filed Mar. 25, 1922. Serial No. 546,774. 3 Claims. (Cl. 221—14.)

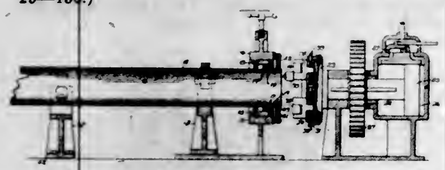
3. An article of manufacture comprising a cover for liquid containers having an opening therein, a spout projecting from said cover in alinement with said opening, a hinged valve secured to said cover and adapted to close said opening, a vent tube depending from said

cover, an auxiliary valve adapted to close the lower end of said vent tube, a plunger rod extending through said vent tube and operatively connected to said auxiliary valve, the lower end of said plunger rod projecting from



said tube and provided with an offset portion, a valve operating rod connecting said hinged valve to the offset portion of said plunger rod, and a spring secured to said valve operating rod and said vent tube to retain said hinged valve in closed position.

1,472,047. METHOD OF LAPPING METAL PIPES. OTTO M. CARLSON, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a Corporation of Illinois. Filed May 13, 1922. Serial No. 560,794. 6 Claims. (Cl. 29—156.)



1. The method of lapping pipes, which consists in heating the portion of the pipe to be flanged, working the heated metal into rough flange form, cooling the circumferential margin of the partially formed flange to restrict the radial displacement of the metal, and then working the metal thus restricted, into final flange form.

1,472,048. METHOD OF HARDENING OF PHOTOGRAPHIC FILMS. JENS HERMAN CHRISTENSEN, Holte, Denmark. Filed Nov. 10, 1919. Serial No. 336,920. 2 Claims. (Cl. 95—88.)

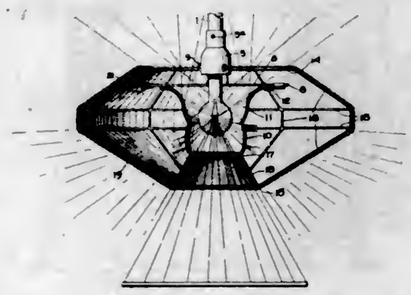
2. The method of developing photographic plates or films to provide a picture of hardened gelatine which consists in treating the exposed and undeveloped plate or film with pyrocatechin and a mixture of alcohol and a substance selected from the group consisting of potassium carbonate and potassium bromide.

1,472,049. ENDLESS CONVEYER. ALFRED L. CLARK, Wellsville, Ohio. Filed Apr. 13, 1922. Serial No. 552,203. 9 Claims. (Cl. 214—18.)



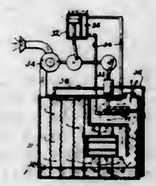
1. A chain belt formed of links flexibly coupled with continuous connecting passages therethrough, means for supplying a heat imparting medium consecutively to the passages through said links at one point of the transit of the belt, and means for exhausting the heat imparting medium of each link at another point of the transit.

1,472,050. LIGHTING FIXTURE. AUGUSTUS D. CURTIS, Chicago, Ill. Filed Sept. 17, 1921. Serial No. 501,265. 12 Claims. (Cl. 240—92.)



1. In a lighting fixture the combination with a lamp support and lamp, of a hanger member mounted on the support above the lamp, a light directing member mounted on the hanger member and depending therefrom in operative association with the lamp, and a light modifying member supported on the hanger member and depending therefrom to encompass the lamp and light directing member; said light modifying member having portions accommodating passage of light directly from the lamp and portions disposed to receive light transmitted by the light directing member.

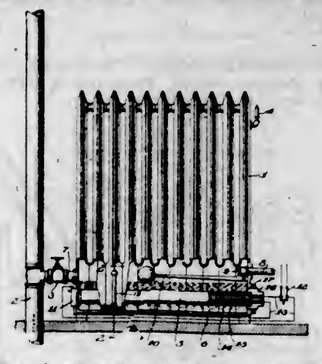
1,472,051. HOUSEHOLD APPLIANCE. FRED M. DAVIS, Chicago, Ill. Filed Apr. 15, 1922. Serial No. 553,264. 4 Claims. (Cl. 62—90.)



4. A combination self driven refrigerating and air conditioning unit comprising mainly a two chambered housing and an internal combustion engine, one of the chambers having therein a refrigerator box, evaporation screens, and spray nozzles, and the other chamber having air warming means communicating with the water jacket of said engine, a pump connected to said nozzles, and a fan, said fan and pump being operatively connected to said engine.

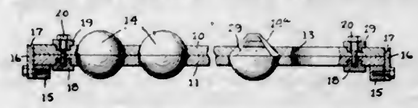
1,472,052. ELECTROSTEAM RADIATOR. FRED M. DAVIS, Chicago, Ill. Filed Apr. 17, 1922. Serial No. 553,603. 4 Claims. (Cl. 219—38.)

1. A steam radiator adapted for household use constructed and adapted to serve as a heating outlet for a separate common steam generator and also as a self contained generating and radiating unit, said radiator having an inlet to admit steam from the outside and also a source of heat therein to vaporize water in the



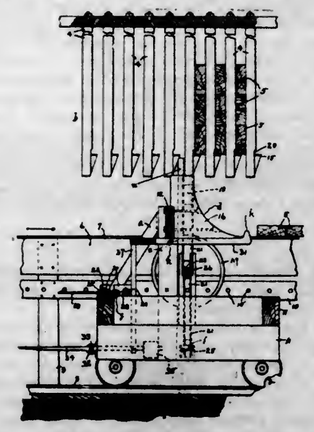
lower part, and automatic means to control the said heat source and the supply of water to said radiator respectively.

1,472,053. MOLD FOR RUBBER GOODS. THERON DAVIS, New York, N. Y. Filed Nov. 25, 1921. Serial No. 517,462. 8 Claims. (Cl. 18—42.)



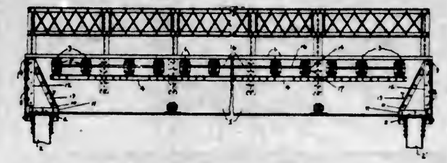
1. A mold member comprising a metallic plate having openings therethrough with tapering walls, and sheet metal shells constructed to form mold cavities, said shells being tapered exteriorly to correspond with the tapering walls of the metallic plate and being larger at their open ends than the openings in the plate, whereby the shells may be driven firmly into the said openings and wedged into their seats.

1,472,054. UNLOADING MACHINE. ROBERT Z. DRAKE, Omaha, Nebr. Filed Dec. 1, 1922. Serial No. 604,173. 11 Claims. (Cl. 214—16.)



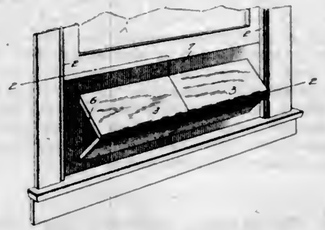
1. In an unloading machine for loaded hanger bars, said bars being provided with catches for supporting the load, a carriage, a releasing-plate on the carriage movable therefrom to engage the catches for releasing the load.

1,472,055. STABILIZING MEANS FOR BRIDGES. ROBERT Z. DRAKE, Omaha, Nebr. Filed Apr. 26, 1923. Serial No. 634,749. 8 Claims. (Cl. 14—17.)



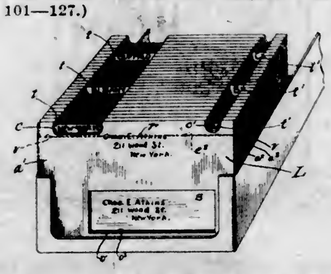
2. In stabilizing means for a bridge, provided with girders having ground supports at its ends, floor joists disposed approximately at right angles to and supported by the girders and arranged in separated sections, tie-rods disposed approximately parallel with the girders and traversing the joists of a section, means on the tie-rods in engagement with the joists of a section for maintaining said joists in stationary relation relative to each other, a floor on said joists between the girders, and upright stabilizing members of triangular form in side elevation on the ground supports of the girders for supporting the floor.

1,472,056. WINDOW VENTILATOR. JACOB DYKEMA, Muskegon, Mich. Filed Apr. 15, 1922. Serial No. 552,971. 1 Claim. (Cl. 98—31.)



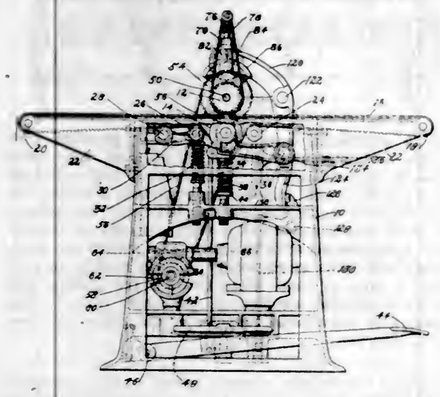
A non-draft window screen comprising a pair of frames of substantially triangular cross section with the broad face covered with screen mesh and hinged together at the meeting ends, and of a combined length to lock in alinement between the sash beads of a window frame the ends of the frames being open to the exterior atmosphere, the angularly disposed faces of the frame being imperforate.

1,472,057. ADDRESS PLATE AND INDEX CARD. CHARLES E. ELLIS, Washington, D. C., assignor of one-tenth to Henry Ridder, New York, N. Y. Filed Apr. 15, 1922. Serial No. 552,826. 22 Claims. (Cl. 101—127.)



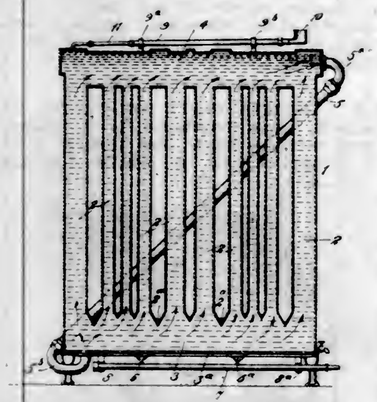
1. As a new article of manufacture, a laminated address plate or frame made of flexible sheet material and folded to provide a plurality of layers or plies, the said layers being united with contiguous wall portions of the layers at an edge of the plate left ununited or free for defining or providing a channel or valley adapted for the reception of a removable index or guide tab.

1,472,038. ROLLING MACHINE. ANDREW EPPLER, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 28, 1920. Serial No. 420,135. 11 Claims. (Cl. 154—1.)



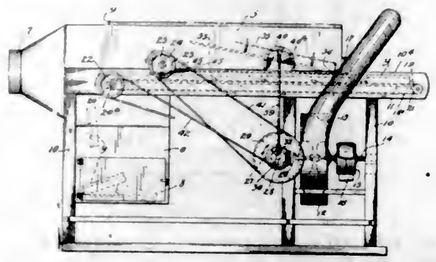
1. In a machine of the class described, a presser roll, two guide rolls each of smaller diameter than that of the presser roll, a belt passing around the three rolls with one of its runs substantially straight and in contact with the three rolls, means for driving the presser roll, a second presser roll arranged in opposition to the first presser roll, a guide roll of small diameter associated with the second presser roll, a belt passing around the second presser and guide rolls, and yielding means for urging the presser rolls toward each other.

1,472,039. HOT-WATER HEATING UNIT. HERMAN ESCHERT, Long Island City, N. Y. Filed Mar. 11, 1918. Serial No. 221,660. Renewed May 10, 1922. Serial No. 559,896. 4 Claims. (Cl. 237—17.)



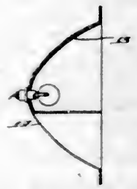
1. A radiator unit, embodying, in combination, a series of vertically-disposed radiator tubes, a boiling-chamber connected with each of said tubes at the bottom thereof, a connecting-chamber communicating with each of the said tubes at the top, a return-pipe having a connection with said connecting-chamber at one end, extending diagonally across the said tubes and having a connection with the boiling-chamber at the end of the unit opposite to the first-mentioned connection; means for heating water in the unit, and means for filling the unit with water and providing space for the expansion thereof under heat.

1,472,060. ERASER-CLEANING MACHINE. OSCAR L. EVANS, Excelsior, Minn. Filed Aug. 4, 1921. Serial No. 489,877. 8 Claims. (Cl. 15—6.)



4. In a machine of the kind described, the combination with a housing, a deck, means for feeding erasers over the deck, a beater working above the deck, pivoted arms yieldingly connected to and supporting the beater, means connected to the arms for oscillating the same, and means for forcing a blast of air through the housing.

1,472,061. HEADLIGHT FOR VEHICLES. MATTHEW A. FORD, Davenport, Iowa. Filed Aug. 27, 1921. Serial No. 496,006. 1 Claim. (Cl. 240—41.)

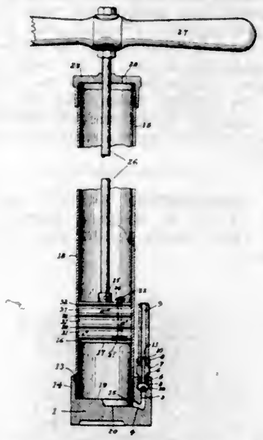


The combination with a headlight having a parabolic reflector, a lamp and a connection therefor, of a supplemental reflector shaped to fit within the headlight reflector and having an opening registering with and adapted to receive the lamp connection, whereby said lamp may be positioned in front of the supplemental reflector and supported on its headlight connection, and said supplemental reflector having an upper parabolic reflector face complemental to the upper parabolic face of the headlight reflector and having a lower flat reflector face substantially parallel with the focal axis of the supplemental parabolic reflector surface and reaching uninterruptedly from side to side and from front to back thereof.

1,472,062. PUMP. ALBERT F. FROUSSARD, St. Louis, Mo. Filed Sept. 12, 1921. Serial No. 500,073. 1 Claim. (Cl. 103—225.)

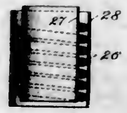
A piston head of the character described having means centrally of its upper end for facilitating the rigid connection of a piston rod thereto and provided near one side with a straight longitudinal cylindrical passage enlarged at the lower side of the piston, a stem freely movable in said passage and having a valve head on its lower end normally occupying, by gravity, a lowered open position, and means carried by the upper end of the valve stem and engageable with the upper surface of the piston head to limit the downward opening movement of said valve head for maintaining the latter with-

in the enlarged portion of said passage and within the plane of the lower surface of said piston head, said valve head and stem being movable upwardly for automatic



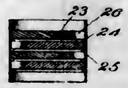
seating of the valve head by the force of the air compressed ahead of the piston head upon the downward or compression stroke of the latter.

1,472,063. INK CARTRIDGE. BYRON B. GOLDSMITH, New York, N. Y. Filed May 21, 1919, Serial No. 298,638. Renewed Feb. 20, 1923. Serial No. 580,329. 3 Claims. (Cl. 134—38.)



1. An ink cartridge comprising a body wound so as to form a sinuous percolating passage between contiguous layers, and ink-producing material upon a wall of the passage so produced.

1,472,064. INK CARTRIDGE. BYRON B. GOLDSMITH, New York, N. Y. Filed May 21, 1919, Serial No. 298,637. Renewed July 24, 1922. Serial No. 580,330. 5 Claims. (Cl. 134—38.)



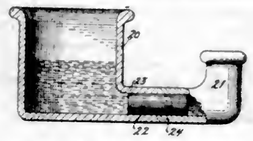
1. An ink cartridge consisting of a group of bodies separated by one or more percolating passages of definite predetermined size, the walls of said passages being provided with ink-producing material.

1,472,065. INK CARTRIDGE. BYRON B. GOLDSMITH, New York, N. Y. Filed May 21, 1919, Serial No. 298,636. Renewed July 26, 1923. 10 Claims. (Cl. 134—38.)



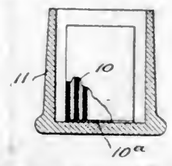
10. An ink cartridge having an inlet and an outlet opening communicating with each other by means of passages, and ink-producing material in said passages.

1,472,066. INK CONTAINER. BYRON B. GOLDSMITH, New York, N. Y. Filed July 28, 1921. Serial No. 488,124. 8 Claims. (Cl. 120—57.)



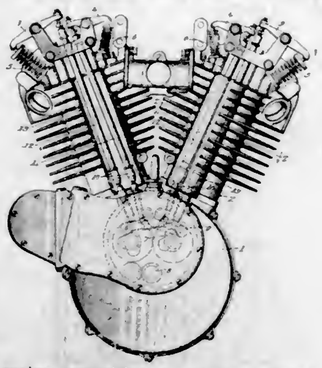
1. Apparatus of the character described comprising a reservoir, a dipping space arranged so that liquid may flow into it from said reservoir and an ink producing member having free channels for the passage of water, connecting the reservoir with the dipping space.

1,472,067. PERMANENT INK CARTRIDGE. BYRON B. GOLDSMITH, New York, N. Y. Filed Aug. 8, 1922. Serial No. 580,559. 15 Claims. (Cl. 134—38.)



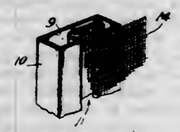
14. An ink producing element for the purpose described containing tannin and copperas united by a stiff gum.

1,472,068. ENGINE. WILLIAM S. HARLEY, Milwaukee, Wis., assignor to Harley-Davidson Motor Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 25, 1919. Serial No. 292,730. 12 Claims. (Cl. 123—90.)



1. An engine comprising a cylinder, timing means including a push rod, and a housing for the push rod, said housing and cylinder having a side wall in common and extending throughout the length of the cylinder.

1,472,069. ADJUSTABLE METAL FRAME. STINER T. HELGESON, Minneapolis, Minn. Filed Aug. 25, 1921. Serial No. 495,213. 2 Claims. (Cl. 156—38.)



2. A tubular frame made up of four right angle sections, the legs of which are telescopically and adjustably connected and form a closed body, said legs being rec-

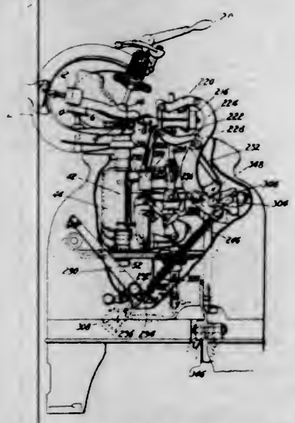
tangular in cross section, channel sections pressed into said body from one of the faces of each frame section, each channel section being dove-tail in cross section, the overlapping portions of the channel sections of connected legs being fitted the one with the other, each leg and its channel section being continuous in cross section, and a screen panel, the marginal edge portion of which is pressed and folded into the exposed portions of the channel sections to form a self-interlocking joint with the frame to secure the screen panel thereto.

1,472,070. TURBINE BLADING. ALEXANDER T. KASLEY, Essington, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed July 5, 1922. Serial No. 572,901. 9 Claims. (Cl. 253—77.)



1. In a turbine, a row of blades having opposed guides on adjacent blade faces which extend part way across the space between the blades.

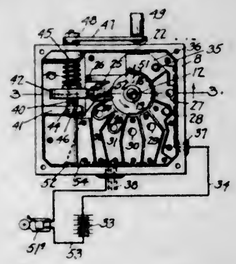
1,472,071. EDGE-SETTING MACHINE. FRANK BYCROFT KEALL, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 9, 1920. Serial No. 394,924. 33 Claims. (Cl. 12—78.)



1. In a machine of the class described, a work holder, a tool, means for moving the work holder relatively to the tool to transfer the point of operation of the tool along the work, and means, controlled by an abnormal position of the work holder after removal of the work, for returning said work holder to a normal position.

33. In a machine of the class described, a shoe jack and a tool, automatic mechanism for transferring the point of operation of the tool over the shoe, a correcting mechanism for differentially affecting the operation of the automatic mechanism to maintain proper operative relation, comprising a pattern surface having a definite relation to the path of the tool over the work, a feeler co-operating with said pattern surface, a hydraulic control valve operated by said feeler, a member controlled by the valve to move the jack, one of the members and valve being provided with a cam and the other with a cam follower, whereby movement of the member from a normal position will operate the valve to correct the movement and determine a normal position for the jack, one of the cam and followers having a pivotal mounting, a lever supporting at one of its ends said pivotally mounted part, and another end of the lever being supported on the machine frame, and the fulcrum being adjustably mounted on the machine frame whereby the normal position defined by the corrective mechanism can be adjusted.

1,472,072. COMBINATION SWITCH AND BURGLAR ALARM. FRANK L. KRIZNAR, Denver, Colo. Filed Jan. 19, 1920. Serial No. 352,365. 4 Claims. (Cl. 200—59.)



1. The combination with a rotating multiple contact switch of an auxiliary circuit closer comprising, a shaft positioned at right angles to the axis of said switch; an insulating disk carrying a contact making plate, mounted on said shaft, said plate making contact with fingers on said multiple contact switch at predetermined positions thereof, said shaft being operable independent of said switch.

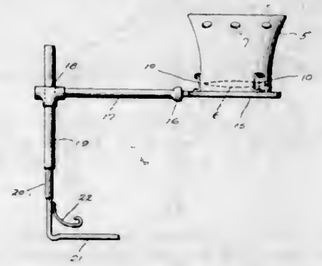
1,472,073. PISTON RING. JOSEPH MAURICE LA COUASE, Chicago, Ill. Filed Jan. 5, 1920. Serial No. 349,376. 2 Claims. (Cl. 74—109.)



1. The combination of a piston having a substantially rectangular ring groove and having openings extending from the groove through to the interior of the piston and a piston ring formed with a circumferential groove on the exterior periphery thereof, with one of the edges of the groove substantially sharp, the ring being cut away at the opposite side adjacent the bottom to form an oil receiving annular channel, and formed with apertures therein, connecting the groove with the opposite side at said cut away portions.

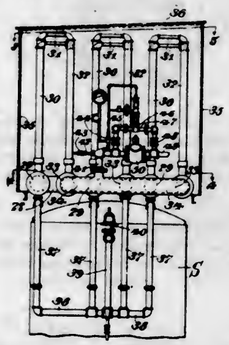
1,472,074. CALIPER-READING GLASS. CHARLES V. LARSON, Chicago, Ill. Filed Nov. 23, 1920. Serial No. 426,013. 1 Claim. (Cl. 88—39.)

The combination with a magnifying glass and its supporting shell, of a supporting plate against which the forward end of the shell seats, said plate having an aperture in line with the shell, means on the plate engageable with the shell for holding the same over the aperture in the plate, a supporting arm to which the plate is swiveled, a supporting standard composed of slidably connected members, a head slidably mounted on one of said members, to which head the inner end of the



supporting arm is connected to extend laterally relative to the standard, and supporting means for the standard at the base thereof.

1,472,075. PETROLEUM-TREATING APPARATUS. JOSEPH W. LEWIS, Philadelphia, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a Corporation of Pennsylvania. Original application filed Apr. 19, 1917, Serial No. 163,171. Divided and this application filed Oct. 28, 1920. Serial No. 420,126. 17 Claims. (Cl. 257—36.)



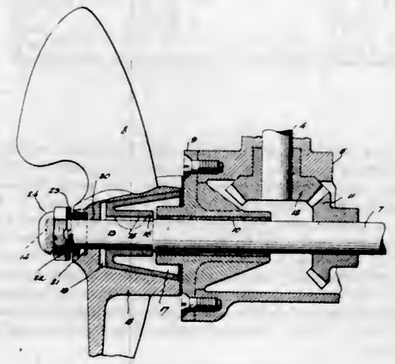
1. Condenser structure comprising initial and terminal manifolds, a header through which vapor may be supplied to said initial manifolds under pressure, upwardly extending and downwardly returning pipes connecting the said initial and terminal manifolds, and means for separately withdrawing from the terminal manifolds the gaseous and liquid products of condensation.

1,472,076. AIRSHIP. WALTER LINK, Ajo, Ariz., assignor to American Airship Association, Ajo, Ariz., a Corporation of Arizona. Filed Sept. 19, 1921. Serial No. 501,774. 6 Claims. (Cl. 244—3.)



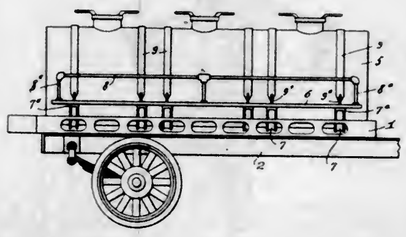
1. An aerial vehicle comprising a gas containing body having a substantially cylindrical major diameter portion and a tubular member of less length and of larger diameter than said major diameter portion and surrounding both a substantial part of said major diameter portion and a substantial part of the tapering rear end portion of the said gas containing body, said tubular member being open at both ends to permit free passage of air between the cylindrical body portion and the said tubular member.

1,472,077. SAFETY CLUTCH FOR PROPELLERS. ARTHUR L. LOCKWOOD, Jackson, Mich. Filed July 10, 1922. Serial No. 574,035. 3 Claims. (Cl. 115—34.)



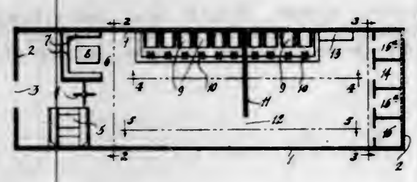
1. The combination of a propeller shaft, a clutch member fixed thereon, a propeller having a hub frictionally engaging said clutch member to establish a driving relation and means on said propeller shaft maintaining the driving relation between said propeller hub and said clutch member and adapted to permit instant disengagement of said propeller hub relative to said clutch member when said propeller encounters an obstacle, said means including a spring encircling said propeller shaft and housed in part by the hub of said propeller.

1,472,078. TANK VEHICLE. CHRISTIAN V. LUCIUS, Massillon, Ohio. Filed June 28, 1920. Serial No. 392,418. 2 Claims. (Cl. 280—5.)



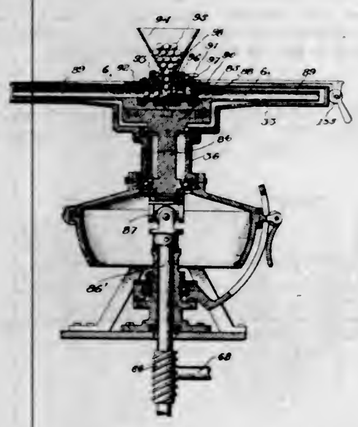
1. In a tank vehicle, the combination with a chassis frame including laterally reinforced longitudinally extending side beams; of channel shaped tank and running board supporting members mounted transversely of said chassis frame with the flanged sides thereof extending downwardly and provided with recesses receiving and interlocking with the upper inner corners of said chassis side beams, said tank and running board supporting members each comprising a curved tank receiving and supporting portion depending between said chassis side beams and terminating in horizontal running board supporting end portions arranged above the planes of the upper portions of said chassis side frames and projecting laterally therefrom.

1,472,079. ARRANGEMENT AND EQUIPMENT FOR SHOE-SHINING SHOPS. HORACE L. MARKLAND, Waco, Tex. Filed Feb. 3, 1922. Serial No. 533,950. 1 Claim. (Cl. 20—1.1.)



A shoe shining and polishing shop having in combination a main entrance from the street, a cashier's ticket window and a waiting room, a reception room between the cashier's window, waiting room and front wall of the shop, a passage-way between the cashier's window and the waiting room for entrance of customers to the interior of the shop, a turnstile in said passageway located in convenient reach of the ticket window; said interior of the shop provided with shoe shining seats in separate compartments for ladies and gentlemen, and a ladies' rest room, a store room, and toilet rooms in the rear of the shop.

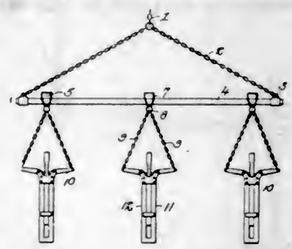
1,472,080. CENTRIFUGAL MACHINE GUN AND METHOD OF FEEDING SAME. JOSEPH TERANOR MCNAIER, New York, N. Y. Filed Apr. 2, 1919. Serial No. 288,845. 47 Claims. (Cl. 89—10.)



1. The combination of a radially disposed rotatable gun barrel and means for exerting continuous eccentric action upon and directly moving spherical projectiles in alignment with said barrel.

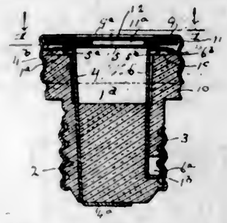
1,472,081. GRAPPLE. IZA NELSON MERCER, Wellsburg, W. Va. Filed Apr. 10, 1922. Serial No. 551,245. 7 Claims. (Cl. 294—103.)

1. A grappling mechanism comprising a cross bar, means secured to the ends of the cross bar for attaching it to a cable, a plurality of transverse supporting arms carried by the cross bar, opposed clamps flexibly suspended from each supporting arm, each of said clamps



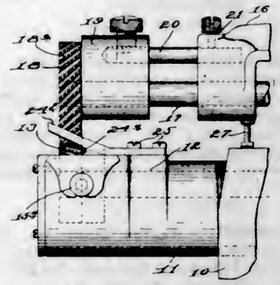
including a fixed and a movable jaw and means for automatically locking the movable jaw in gripping position when supporting a load.

1,472,082. FUSE PLUG. EMIL NOMBURG, Newark, N. J., assignor to Joseph Nomburg, New York, N. Y. Filed Apr. 12, 1920. Serial No. 373,157. 4 Claims. (Cl. 200—130.)



1. A fuse plug having conductor terminals provided with slots, a fuse piece having laterally extending ends to enter said terminal slots, and a cover over the fuse piece retaining the latter on the terminals.

1,472,083. CEMENTING MACHINE. WALTER P. OSGOOD, Malden, Mass., assignor to Boston Machine Works Company, Lynn, Mass., a Corporation of Massachusetts. Filed Aug. 19, 1920. Serial No. 404,643. 11 Claims. (Cl. 91—51.)

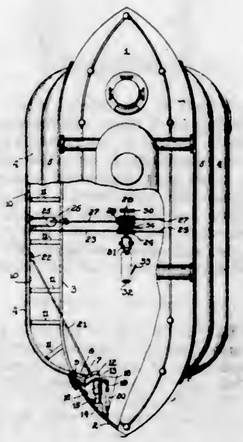


1. Apparatus for applying cement, comprising material feeding means, unidirectional moving means associated therewith for taking up cement from a body of cement, and relatively stationary means adapted to gather the cement so taken up and arranged to direct and spread the same upon a surface of the material to be coated in advance of the engagement of said feeding means therewith.

4. Cement applying apparatus, comprising material feeding means, rotatable means associated therewith for taking up cement on its periphery from a cement body, and a relatively stationary cement director arranged to gather the cement so taken up and direct the same upon a surface to be coated, said cement director constructed and arranged to serve also as an edge guide for the material.

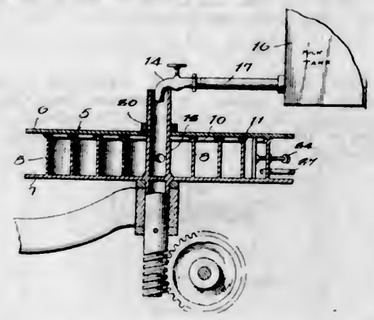
10. Cement applying apparatus, comprising a pair of co-active feed rolls, one thereof mounted to extend into a body of cement and having its periphery formed with inclined teeth for the purpose stated, and means associated with said roll for directing cement therefrom upon a material surface.

1,472,084. LIFE-SAVING DEVICE. STELEANOS A. PASCALES, Detroit, Mich. Filed Mar. 3, 1921. Serial No. 449,283. 5 Claims. (Cl. 9—4.)



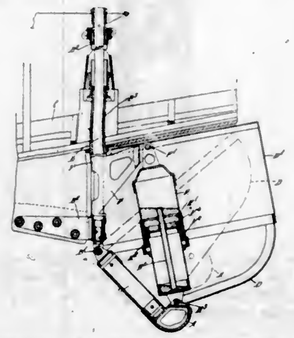
1. A life saving boat having side walls provided with openings, collapsible buoyant members mounted on the outer sides of said side walls at the openings thereof, arms pivoted at the ends of the side wall openings extending into said buoyant members and adapted to retain said buoyant members distended, and yieldable means at the pivoted ends of said arms adapted to cushion an inward movement of said arms.

1,472,085. CREAM SEPARATOR. PETER C. PHILIP, Bowlus, Minn. Filed Apr. 8, 1922. Serial No. 550,805. 4 Claims. (Cl. 233—39.)



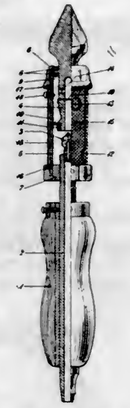
1. A cream separator comprising a pair of disks, a divider arranged between said disks and having a plurality of convolutions, the outer convolution of which is secured to the adjacent convolution to form a closure, a wing secured to the outer convolution adjacent the end of the same, and separate outlets for the skim milk and the cream.

1,472,086. TAIL SKID FOR AIRCRAFT. REGINALD KERSHAW PIERSON and THOMAS SMITH DUNCAN, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Filed June 21, 1921. Serial No. 479,308. 11 Claims. (Cl. 244—2.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A combined tail skid and water rudder for hydro-aeroplanes or flying boats, comprising a pivoted skid member having an extension, which constitutes the rudder or the main portion thereof.

1,472,087. GAS-HEATED SOLDERING IRON. VERNON B. PIKE, Cheltenham, Pa., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 27, 1922. Serial No. 564,075. 5 Claims. (Cl. 158—26.)



1. In a gas heated soldering iron including an outer tubular wall having two series of openings therein, and a soldering head, the combination of a downward tubular extension of said soldering head having a plurality of openings therein, said tubular extension forming a combustion chamber within the outer wall, and a washer transversely placed between said tubular extension and said outer wall at a point between the two series of openings in said outer wall.

1,472,088. CONTAINER. PAUL R. PUCKETT, Atlanta, Ga. Filed Apr. 5, 1922. Serial No. 549,698. 4 Claims. (Cl. 206—46.)

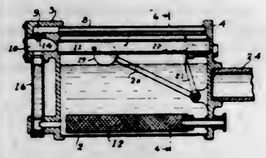
1. A container functioning primarily as a shipping receptacle for an article of merchandise, comprising a casing having an open end, and a member detachably

fitting said end and normally extending within said casing, functioning as a filler to prevent excessive endwise movement of said article of merchandise, and being



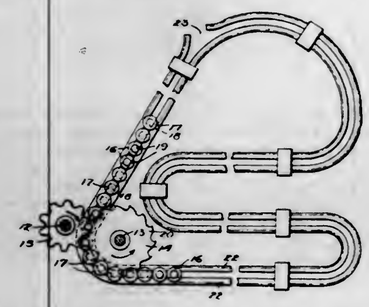
adapted to cooperate with said container after the removal of the merchandise therefrom, to adapt said container to additional uses foreign to its primary function as a shipping receptacle.

1,472,089. IRONING AND STEAMING DEVICE. FRANK B. RAE, Cleveland, Ohio, assignor to Friederich J. Langer, Cleveland, Ohio. Filed Aug. 13, 1920. Serial No. 403,179. 8 Claims. (Cl. 26—7.)



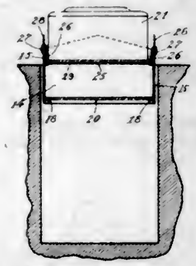
1. An ironing and steaming device, comprising a boiler having a heating element therein and a tube mounted outside and openly connected with the interior of said boiler having steam escape openings at intervals lengthwise thereof, and an ironing bar extending parallelly with and closely adjacent said tube and the wall of said boiler.

1,472,090. MECHANICAL MOVEMENT. WALTER C. READ, Bloomfield, N. J. Filed Mar. 23, 1921. Serial No. 454,624. 10 Claims. (Cl. 74—14.)



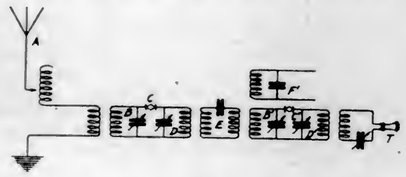
3. A mechanical movement comprising a driving wheel having a geared toothed driven wheel; a plurality of detached complementary devices for operatively connecting said wheels at variable intervals, said devices having sections for engaging said wheels separately.

1,472,091. CASKET COVER AND GRAVE LINER. JOSHUA D. REED, Union Township, Clermont County, Ohio. Filed Aug. 14, 1920. Serial No. 403,563. 8 Claims. (Cl. 27—19.)



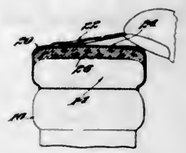
1. A casket cover to be lowered into a grave with a casket comprising sheet metal end sections and side sections detachably united at their meeting edges by slip joints to form a rectangular receptacle open at the top and bottom, cross bars detachably connected near the bottom to retain said side sections and end sections in relative position and to support a casket, cross bars detachably connected near the top to support a lid, a sheet metal lid, and means to retain the lid in position relative to said side sections and end sections.

1,472,092. RECEIVER FOR WIRELESS TELEGRAPHY. HENRY JOSEPH ROUND, London, England, assignor to Radio Corporation of America, a Corporation of Delaware. Filed July 9, 1921. Serial No. 483,493. 14 Claims. (Cl. 250—20.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a receiver for wireless telegraphy the combination of an aerial slightly out of tune with the signal waves, means for rectifying the resultant current due to the forced and free oscillations in the aerial and a circuit tuned to the beat frequency.

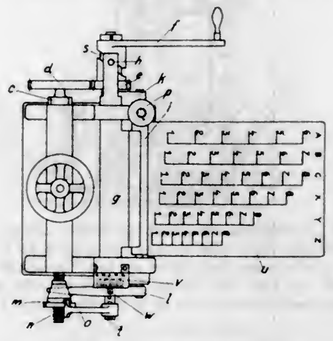
1,472,093. BOTTLE CLOSURE. FREDERICK G. SHULL, Dallas, Tex., assignor to Aluminum Seal Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 8, 1921. Serial No. 476,078. 4 Claims. (Cl. 215—38.)



1. The combination with a container, having an annular sealing lip, of inner and outer sealing caps of aluminum or like material having flanges crimped about the lip to secure and hermetically seal the caps thereto, the outer cap being provided with a flap to facilitate its removal from the container and the inner cap being provided with perforations or openings through which

the contents of the container may be discharged, and a compressible packing member interposed between the outer and inner sealing caps to hermetically seal the contents of the container when the outer cap is in position.

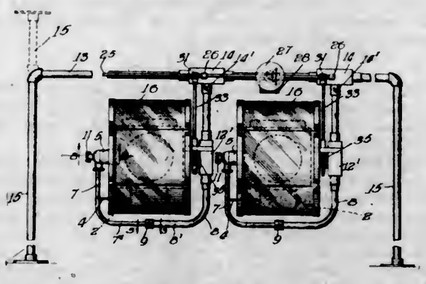
1,472,094. LEATHER BEVELING AND SPLITTING MACHINE.. FRIEDRICH WILHELM SIMON, Oberursel, near Frankfort-on-the-Main, Germany. Filed Dec. 13, 1921. Serial No. 521,996. 10 Claims. (Cl. 69—11.)



1. In a leather beveling and splitting machine, the combination with a knife blade, of a support for the article operated upon cooperating with said knife blade and provided with an oscillating arm, and means for causing the support to approach the knife blade during the beveling, said means including a rotating screw-spindle, and a conical nut adapted to ride axially on said rotating spindle and against which the oscillating arm rests.

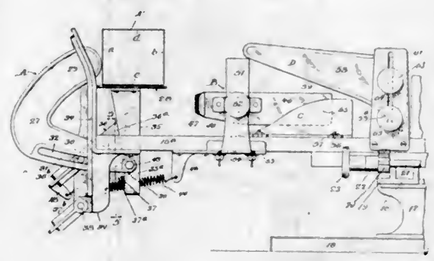
10. In a leather beveling and splitting machine, in combination, a knife, a rotatable bed roll to support the work, an oscillating support for said bed roll, means for moving the work past the knife while supported by said bed roll, means for moving said oscillating support to move the bed roll toward and from said knife, a rotating screw spindle connected with said rotatable bed roll to rotate therewith, a conical nut mounted on said spindle, means co-operating therewith to effect movement of said bed roll toward said knife and means for locking said nut against rotation to effect axial movement thereof on said spindle.

1,472,095. SPOTLIGHT COLOR SCREEN. GEORGE E. STEPHENSON, Chicago, Ill. Filed Dec. 9, 1921. Serial No. 521,165. 8 Claims. (Cl. 240—3.)



1. In a device of the kind described and in combination, a lamp, a rotatable screen for said lamp, means for adjusting said screen about an axis extending laterally of its rotational axis, and drive means for rotating said screen at any point in its adjustment.

1,472,096. WRAPPER AND SEALER FOR BREAD, CARTONS, BOXES, AND THE LIKE. FRANK STREICH, Joliet, Ill., assignor to Union Machinery Company, Joliet, Ill., a Corporation of Illinois. Filed Oct. 1, 1921. Serial No. 504,612. 18 Claims. (Cl. 93—2.)



1. In a device for wrapping articles, the combination of a counterbalanced, depressible platform for receiving the article, a flap folding finger movable with said platform, and finger actuating members operated by said platform.

1,472,097. DISPLAY DEVICE. EUNICE SUTTON, New York, N. Y., assignor to Sutwa Mfg. Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 11, 1922. Serial No. 551,546. 11 Claims. (Cl. 35—12.)

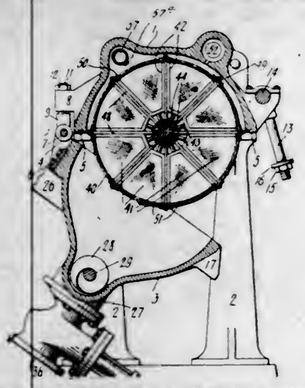


1. In a display, a figure in simulation of the human form, a garment hanger carried thereby and having separate means for supporting the waist and skirt of a garment and a garment on the garment hanger applicable to the sex represented by the figure, the garment being of such a character and supported on the hanger in such manner that the style of the garment and the manner of supporting the same on the hanger is disclosed to the observer.

1,472,098. FILTER. ERNEST J. SWEETLAND, Montclair, N. J., assignor to United Filters Corporation, Salt Lake City, Utah, a Corporation of Delaware. Filed Dec. 24, 1917. Serial No. 208,556. 3 Claims. (Cl. 210—178.)

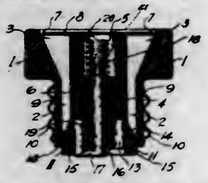
1. A filter including a plural part casing, means for hingedly connecting said parts so as to permit one part

to move relatively to the other, a filter arranged in said casing, a conveyor mounted in the movable part for



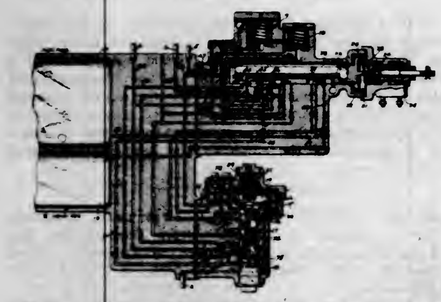
discharging the solid matter, and driving means for said conveyor inoperative when the casing is opened.

1,472,099. MULTIPLE-FUSE PLUG. WILLIAM H. TAYLOR, CHARLES W. DOWNS, and JACOB W. BARBEY, Detroit, Mich. Filed Mar. 10, 1921. Serial No. 451,298. 9 Claims. (Cl. 200—125.)



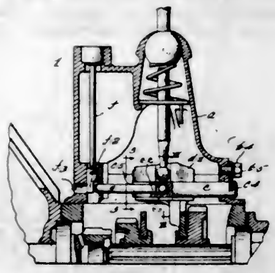
1. A multiple fuse plug comprising a body formed of insulating material having a central aperture therethrough and a series of recesses spaced circumferentially about the said aperture, an outer contact shell threaded to fit a socket, a series of fuse elements connected thereto, each provided with an angularly bent end extending into a recess, a contact pin rotatably mounted in the central aperture and having a return bent end adapted to contact any fuse element, and an indicator carried by the said pin observable from the outer end of the plug indicating the fuse element contacted thereby.

1,472,100. LOAD-BRAKE DEVICE. THOMAS H. THOMAS, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Mar. 28, 1921. Serial No. 456,240. 9 Claims. (Cl. 303—23.)



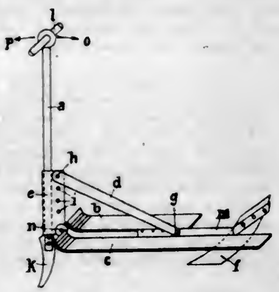
3. In a load brake, the combination with a plurality of brake cylinders, of a brake pipe and a triple valve device operated as the brake pipe pressure is reduced for successively supplying fluid under pressure to said brake cylinders.

1,472,101. GEAR LOCK FOR AUTOMOBILES. CHARLES G. TROSIEN, Pontiac, Mich. Filed Feb. 27, 1922. Serial No. 539,435. 7 Claims. (Cl. 70—126.)



1. In combination with change speed gearing having reciprocating parts and a rod *c* extending between said parts, of a locking mechanism on said rod adapted to be adjusted on said rod at will to engage said parts to lock the same from motion or to disengage said parts.

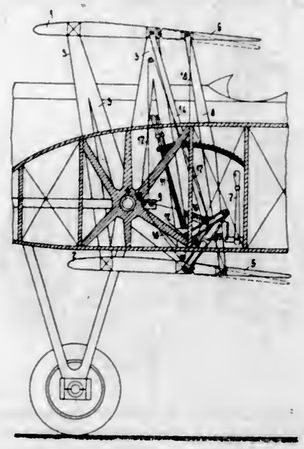
1,472,102. AGRICULTURAL IMPLEMENT. LEOPOLD UAIGA, Wittenberge, Germany, assignor to Firm of Landwirtschaftliche Maschinenfabrik, Wittenberge, Germany. Filed July 10, 1920. Serial No. 395,414. 13 Claims. (Cl. 97—58.)



1. In an agricultural implement, the combination of a pair of drag-sleds, each adapted to receive the weight of the operative, a ground working tool connected with one of said drag-sleds, and means comprising a propelling lever interconnecting said drag-sleds adapted to be oscillated by the operative, for causing said drag-sleds to alternately advance.

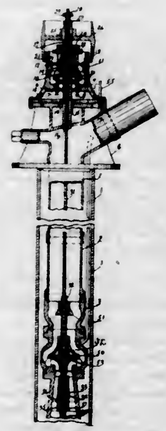
1,472,103. ELEVATING PLANES FOR AEROPLANES. JEAN FRÉDÉRIC HENRI DE VIGNON VANDEVELDE, Copenhagen, Denmark. Filed Nov. 24, 1920. Serial No. 426,317. 4 Claims. (Cl. 244—29.)

2. Lifting planes for aeroplanes, the combination with a spindle fixed transversely to the body of the aeroplane, of a lifting plane system divided transversely into front and rear portions hinged together, the rear portion being divided longitudinally into separate right and left parts, the lifting plane system being rotatable about the spindle, a steering rod, flexible operating connections from the steering rod to the parts of the rear portion of the lifting plane system, and means for rotating the lifting plane system through a small angle about the spindle, the connections being such that the two parts of the rear portion of the lifting plane system move together during a change in the inclination effecting simultaneously a change of curvature of the system but move independently and oppositely under the action of the steering rod and flexible connections to effect a change of curvature of the system, and the spindle being so positioned and the shape and disposition of the lifting plane system such that a change of inclination of the lifting plane system is accompanied by a small



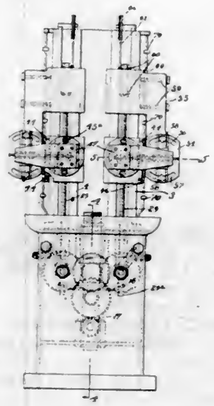
rotation of the system about the spindle of such an extent that the centre of pressure of the lifting plane system experiences practically no displacement relative to the centre of gravity of the whole aeroplane during the change of inclination, the inclination and curvature of the elevating plane system being operated simultaneously by the same means.

1,472,104. PUMP. PERCY E. VAUGHAN, San Jose, Calif. Filed June 5, 1922. Serial No. 565,823. 11 Claims. (Cl. 103—102.)



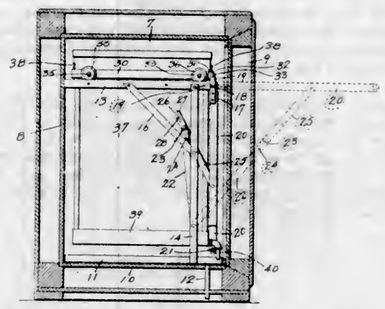
1. In combination a pump head, a cable suspended therefrom, and an impeller operatively mounted upon said cable.

1,472,105. VERTICAL LATHE. WALLACE E. WARD, Rochester, N. Y., assignor to Arthur H. Ingle, Rochester, N. Y. Filed May 18, 1920. Serial No. 382,332. 12 Claims. (Cl. 82—2.)



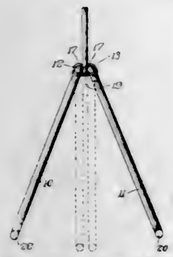
1. A lathe comprising a work spindle, a slide-away, a feed screw equipped with driving means and having a mounting permitting endwise movement thereof with respect to such driving means, a saddle mounted for movement on said slide-way bearing a slidable tool holder and equipped with a nut engaging said screw, and a head also fitted to said slide-way in swiveled engagement with said screw and bearing means for effecting a sliding movement of said tool holder, said saddle and said head equipped with means for selectively clamping them stationary with respect to said slide-way.

1,472,106. CONTAINER SUPPORT FOR REFRIGERATORS. CHARLES W. WENKE, St. Louis, Mo., and CHARLES A. KETTERER, East St. Louis, Ill., assignors to St. Louis Butchers' and Hotel Supply Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 21, 1923. Serial No. 633,746. 3 Claims. (Cl. 62—69.)



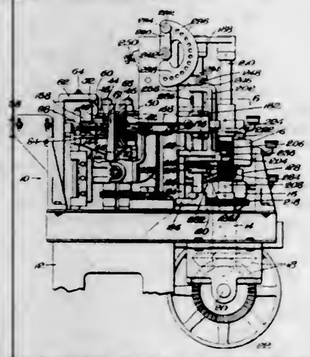
1. A container support for refrigerators comprising a U shaped frame, folding extensions pivoted to said frame, means for holding said extensions in extended position, a carriage mounted on said frame, a container secured in said carriage, and means carried by said extensions for preventing the movement of the carriage when the extensions are in folded position.

1,472,107. COLLAPSIBLE CHAIR FOR CONCRETE BARS. WILLIAM E. WHITE, Chicago, Ill. Filed July 31, 1922. Serial No. 578,575. 10 Claims. (Cl. 72—122.)



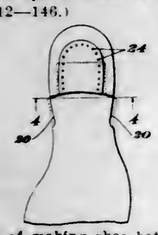
1. In a chair, the combination of two separate wires bent into generally U-shape, a clip for pivotally joining said bent wires, and means for limiting the pivotal movement of the joined parts.

1,472,108. STOCK-CUTTING MACHINE. ERASTUS E. WINKLEY, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 5, 1919. Serial No. 342,656. 48 Claims. (Cl. 164—22.)



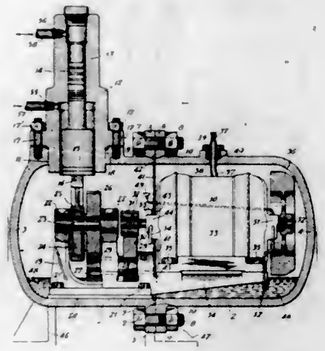
1. A stock-cutting machine having, in combination, means for feeding the stock in a series of steps, cutting means for successively cutting blanks from the stock as it is fed, and means acting in conjunction with said feeding and cutting means for controlling in a positive manner the introduction of the incoming stock with relation to the preceding piece of stock and thus insuring the cutting of perfect blanks at the extreme forward and rear ends of the stock.

1,472,109. METHOD OF MAKING SHOE BOTTOMS. ERASTUS E. WINKLEY, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed May 11, 1916, Serial No. 96,781. Divided and this application filed Apr. 7, 1920. Serial No. 371,917. 8 Claims. (Cl. 12—146.)



1. The method of making shoe bottoms comprising an out-sole and an attached heel which includes separately shaping the heel and the shank edges only of the outsole to final size and form, and subsequently shaping the forepart of the outsole and attaching said heel to said outsole.

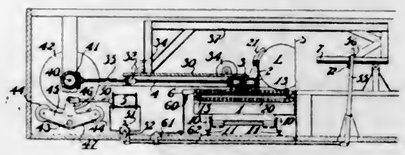
1,472,110. DRIVING APPARATUS. GEORGE F. WOELFEL, Lakewood, Ohio, assignor of one-half to Walter H. Abbott, East Cleveland, Ohio. Filed Mar. 15, 1922. Serial No. 544,013. 10 Claims. (Cl. 230—27.



1. The combination of an entirely closed sealed vessel; a motor completely encased within said vessel; and a pumping or compressing mechanism actuated by said motor, located within said vessel; piping connections to and from the pump or compressor outside of said sealed vessel; whereby fluid leakage past the compressing element will be completely caught and conserved by said vessel and reused.

2. In a driving apparatus, the combination of an enclosing casing comprising two separable parts; a supporting base member secured to the interior of one of said parts only, said member extending into the other part.

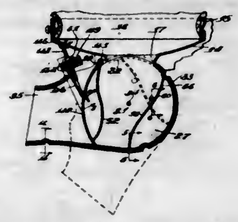
1,472,111. SETWORKS. WILLIAM T. ALFREY, Seattle, Wash. Filed Dec. 6, 1921. Serial No. 520,238. 18 Claims. (Cl. 143—118.)



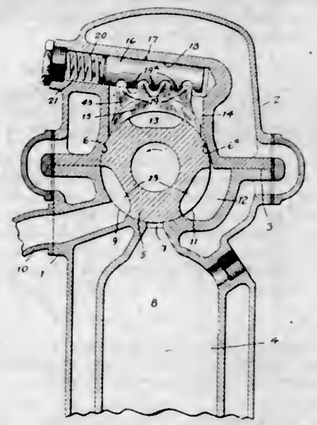
1. In a sawmill set-works, the combination with a longitudinally-movable carriage, of knees transversely movable thereon, and a longitudinally extending, transversely movable guide rail having guiding engagement with the bases of said knees to control their transverse position relative to the carriage.

1,472,112. MEASURING AND DISPENSING MACHINE. WALTER A. BARROWS, Belvidere, Ill., assignor to The Justrite Measuring Machine Company, Belvidere, Ill., a Corporation of Illinois. Filed May 6, 1921. Serial No. 467,346. 10 Claims. (Cl. 221—95.)

1. A measuring and dispensing device of the character described comprising a hopper, a measuring receptacle pivotally mounted beneath the hopper and adapted to be filled by contents gravitating from the hopper, said receptacle having spaced side walls connected by intermediate walls including a cut-off wall at one end of the receptacle and shaped to provide a delivery spout at the opposite end thereof, and a closure in said receptacle defining the front wall thereof, said closure carrying on its inner side a wall reaching from side to side of the receptacle and substantially from top to bottom thereof and being detachably mounted at its upper and lower ends on the closure.



1,472,113. ROTARY VALVE. EUGENE M. BOURNONVILLE, Jersey City, N. J. Filed Feb. 15, 1923. Serial No. 619,112. 9 Claims. (Cl. 123—190.)

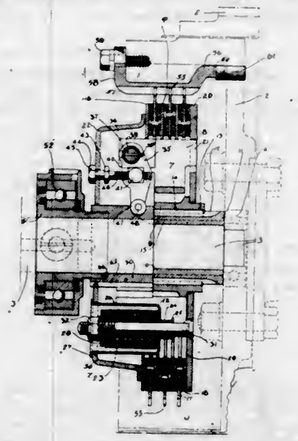


1. In a multicylinder internal combustion engine, a rotary valve casing extending lengthwise of the series of cylinders, a rotary valve member section therein, a plurality of compensating shoes bearing upon different portions lengthwise of the valve section, said shoes being independently movable circumferentially of the valve section, independent slide members to which the respective shoes are flexibly articulated, and springs urging said slide members and shoes in opposition to the drag of the different portions of the valve section.

1,472,114. FRICTION CLUTCH. ARTHUR B. BROWNE, Hartford, Conn.; Anna H. Browne executrix of said Arthur B. Browne, deceased. Filed Sept. 23, 1921. Serial No. 502,676. 31 Claims. (Cl. 192—69.)

1. A friction clutch comprising a main driven member arranged for mounting on a shaft and including a main driven plate, a pressure plate, at least one driving disk between the plates, spring means urging the main plate and pressure plate convergently, a releasing lever mounted in the main driven member and substantially enclosed within the pressure plate, a member connected to the lever and arranged to bear against the pressure plate, and a shifter connected to the inward end of the lever.

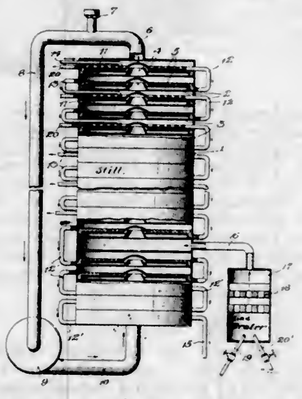
18. A spring assembly for friction clutches comprising a spring, a cage substantially enclosing the spring and having its bottom engaged by one end of the spring, an inner member passing through the spring and having at one end means to engage the cage bottom and at the other end means to engage the free end of the spring, whereby the spring is retained in compression and is free to be additionally compressed when placed in a clutch structure by movement of the inner member in relation to the cage.



1,472,115. PROCESS OF TREATING SOLUTIONS OF METALS. LOUIS F. CLARK, Potrerillos, Chile. Filed Oct. 28, 1921. Serial No. 511,176. 9 Claims. (Cl. 75—18.)

1. The method of treating a copper solution which consists in subjecting it to a high temperature and pressure and to a reducing agent including formic acid to precipitate metallic copper.

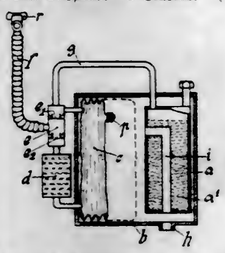
1,472,116. PROCESS OF DISTILLING OIL. HENRY L. DOHERTY, New York, N. Y. Filed Jan. 12, 1918. Serial No. 211,537. 24 Claims. (Cl. 196—27.)



2. In the distillation of petroleum, the process which comprises establishing and maintaining a higher temperature in the middle portion of a device like a column still than obtains in portions below the above, establishing and maintaining transverse bodies of oil across such device at different levels and at different temperatures, passing the feed of petroleum oil downward through such device, such oil flowing in heat transferring relationship to, but out of contact with alternate bodies and feeding

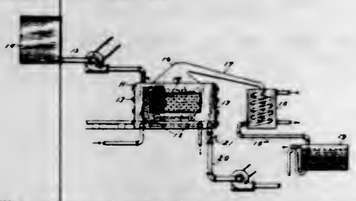
to and being removed from intermediate bodies, and withdrawing liquid as a distillate from such alternate bodies; a current of gases being kept flowing upwardly through said device to maintain the localized high temperature of the middle portion.

1,472,117. RESPIRATORY APPARATUS. ALEXANDER BERNHARD DRÄGER, Lubeck, Germany. Filed June 9, 1921. Serial No. 476,235. 3 Claims. (Cl. 128—191.)



1. In a respiratory apparatus of the class described the combination of a reservoir containing liquefied breathing gas to be heated and vaporized by external air to support respiration, containing means enclosing the said reservoir as an air heating jacket and being in communication with the atmosphere, and a breathing bag arranged within the said containing means to automatically regulate, according to its pulsations, the external air supply to the said heating jacket.

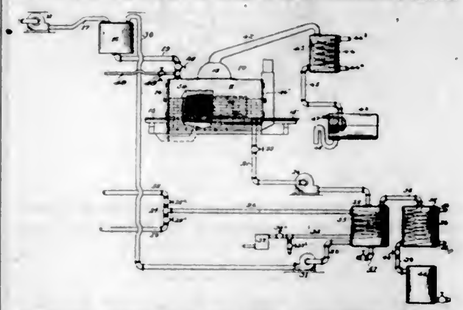
1,472,118. PROCESS OF EXTRACTING PINE OIL, TURPENTINE, AND RESINOUS PRODUCTS FROM WOOD. TALIAFERRO J. FAIRLEY and THOMAS M. DU BOSE, Hattiesburg, Miss.; said Du Bose assignor to said Fairley. Filed Sept. 27, 1921. Serial No. 503,521. 7 Claims. (Cl. 203—6.)



1. The process of extracting pine oil, turpentine and resinous products from wood which consists in reducing the wood to chips, immersing said chips in a closed container in a liquid consisting essentially of oils of the terpene series, subjecting the mass to a temperature of about six hundred degrees Fahrenheit, to effect the destructive distillation of the wood and to convert the volatilizable constituents of the wood into condensable fluids, condensing said fluids, and finally separating the aqueous layer from the oleaginous constituents of the condensate, substantially as specified.

1,472,119. PROCESS OF TREATING VEGETABLE MATTER FOR THE PRODUCTION OR EXTRACTION OF OILS, RESINOUS SUBSTANCES, ETC. TALIAFERRO J. FAIRLEY, Hattiesburg, Miss. Filed May 8, 1922. Serial No. 559,418. 12 Claims. (Cl. 203—6.)

1. The process of treating vegetable matter to obtain oil and other fluids therefrom, which consists in reducing said matter to appropriate size or form, immersing the same in a closed container in a liquid of vegetable origin, capable of withstanding the degree of heat necessary to effect the destructive distillation of said vegetable matter without reducing the volume of said liquid to an extent which will expose said vegetable matter, subjecting the same to the action of heat to effect the destructive distillation of said vegetable matter and the reduction of the solid carbonaceous matter to such state of fine sub-division as to cause said carbonaceous matter



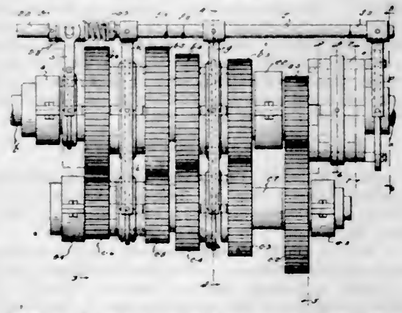
to become suspended in said liquid, converting the volatilizable constituents of the mass into condensible fluids, condensing said fluids, and finally separating the aqueous layer from the oleaginous constituents of said condensate, substantially as specified.

1,472,120. GREENHOUSE AND CONSERVATORY. PHILIP J. FOLEY, Chicago, Ill. Filed May 28, 1921. Serial No. 473,451. 4 Claims. (Cl. 108—16.)



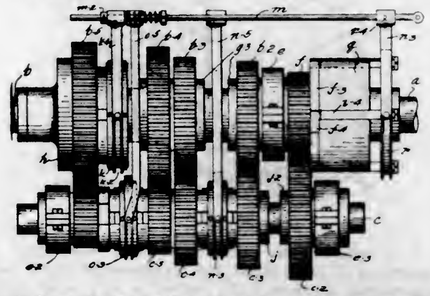
1. A channel beam the outer surface of the web of which is inclined downwardly from approximately its center of length to the side edges thereof.

1,472,121. CHANGE-SPEED GEARING. JESSE H. HAND, Detroit, Mich. Filed Dec. 30, 1920. Serial No. 434,001. 8 Claims. (Cl. 74—59.)



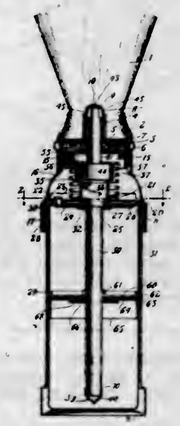
1. In a change speed gear, a main shaft, a sleeve carried by such main shaft in such a manner that the shaft may be rotated independently thereof, means for locking such sleeve to the shaft to rotate therewith, a series of gears loosely mounted on such sleeve but adapted to be locked individually thereto to rotate therewith, a counter shaft, a series of gears loosely carried on said counter shaft but adapted to be locked individually thereto to rotate therewith, a driving shaft, means for coupling the counter shaft up with the driving shaft so as to be rotated thereby, means for locking any loose gear on the counter shaft thereto so as to rotate with such shaft and coincident therewith locking its co-operating gear on the main shaft sleeve to such sleeve to rotate therewith.

1,472,122. CHANGE-SPEED GEARING. JESSE H. HAND, Detroit, Mich. Filed Oct. 16, 1920. Serial No. 417,329. 15 Claims. (Cl. 74—59.)



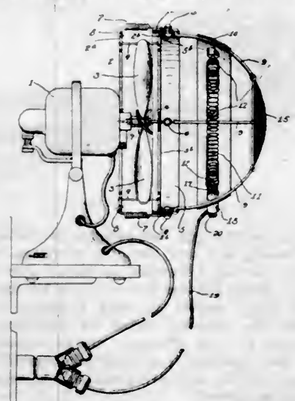
1. In a change-speed gearing, in combination, a driving shaft, a main shaft, a countershaft, a sleeve mounted on said main shaft to permit rotation of the main shaft independent of the sleeve, means for locking said sleeve to said main shaft to rotate therewith, change-speed gears fixed to the sleeve to rotate therewith, change-speed gears mounted on the countershaft constantly in mesh with the change-speed gears on the main shaft, means for coupling said driving shaft thru the change-speed gears on the counter shaft with individual gears on the sleeve to drive the main shaft therethru, means for coupling the driving shaft directly with the main shaft to drive the same independently of the change-speed gears.

1,472,123. DEVICE FOR DISPENSING LIQUID OR PLASTIC MATERIALS. WILLIAM WILSON HEINITSH, ISAAC C. SHALKOP, and ALEXANDER B. LAUTERBACH, Philadelphia, Pa., assignors to The De Luxe Brush Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 27, 1920. Serial No. 376,924. 8 Claims. (Cl. 221—79.)



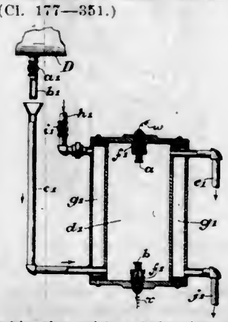
1. In a device for dispensing liquid, semi-liquid and plastic materials, the combination of a receptacle closed at one end and open at the other, the edges of the open end being provided with an outwardly extending flange, a discharge tube extending into said receptacle, a disk having a central flanged opening secured upon said discharge tube, a disk rotatably mounted on said flange and retained in position by said first named disk, the open end of said receptacle being seated against said second named disk, which latter is provided with a screw threaded flange, and a hollow handle having an open end and the portion thereof adjacent said open end being screw threaded, said screw threaded portion being adapted to be screwed into engagement with said screw threaded flange, and the edge of the open end of said handle being adapted to contact with the outwardly extending flange upon the said receptacle to clamp and hold the same against the said second named disk.

1,472,124. AIR-HEATING ATTACHMENT FOR FANS. FRANK MORGAN HOWE, New York, and CHARLES NAEGELI, Long Island City, N. Y. Filed Dec. 21, 1921. Serial No. 523,905. 3 Claims. (Cl. 219—42.)



1. A heating attachment for fans, comprising a heating element, a cylindrical member for supporting the attachment to which said heating element is connected, said cylindrical member having an internal shoulder for limiting its movement with respect to an internal support, and resilient means whereby said cylindrical member may be secured to a support.

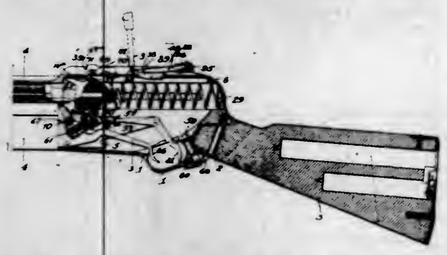
1,472,125. MEASURING APPARATUS. EARL A. KEELER, Norristown, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 19, 1920. Serial No. 418,020. 4 Claims. (Cl. 177—351.)



2. The combination with a balancing circuit including a source of alternating current and an alternating current galvanometer having a deflecting member, of electrodes spaced from each other in said circuit, means for

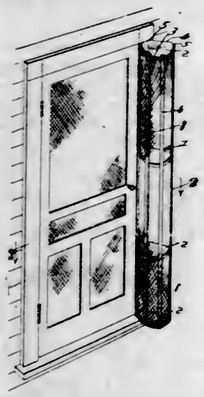
bridging said electrodes by solution of changing conductivity, a source of power, a movable structure, a disengageable mechanical connection between said source of power and said movable structure controlled by said deflecting member, means actuated by said movable structure for rebalancing said circuit upon change in conductivity of the solution between said electrodes, a second circuit, an indicating device controlled thereby, and means actuated by said movable structure for controlling said circuit to effect an indication upon occurrence of predetermined change in the magnitude of the conductivity of said solution between said electrodes.

1,472,126. MACHINE GUN. JOHN T. KEWISH, New York, N. Y., assignor of one-fourth to John C. Garand, New York, N. Y. Filed July 9, 1918. Serial No. 244,047. 25 Claims. (Cl. 42—3.)



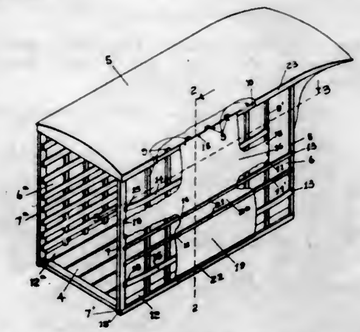
1. A self-loading gun comprising, in combination, a bolt for holding the rear end of a cartridge to be fired, an actuator having a limited movement with respect to said bolt, a firing pin carried with and having a limited movement with respect to said actuator, means for urging said pin forward, means for retracting said pin with respect to said actuator, means carried on said actuator for retaining said pin in retracted position, and means whereby said firing pin may be released from said retaining means.

1,472,127. COURSE DIRECTOR FOR FLIES. MATTHEW J. KIVLIN, Kingsville, Tex. Filed Sept. 11, 1922. Serial No. 587,430. 5 Claims. (Cl. 156—14.)



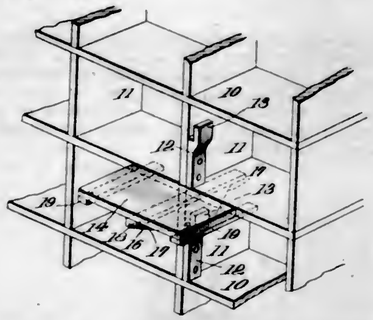
2. The combination with a door frame including a door jamb, of a course director comprising a frame secured to the exterior face of the jamb and arranged and disposed at an acute angle thereto, said frame having a wire fabric covering of arcuate shape curved in a direction from the jamb and toward the edges of the door.

1,472,128. VEHICLE BODY CONSTRUCTION. CHARLES M. MANLY, Richmond Hill, N. Y., and JAMES McGLASHAN, York, Pa., assignors to Martin-Parry Corporation, York, Pa., a Corporation of Delaware. Filed Nov. 5, 1921. Serial No. 512,960. 9 Claims. (Cl. 296—28.)



1. A vehicle body panel construction comprising a framework of longitudinal and transverse boundary and intermediate members firmly secured to each other, with a surface of each coplanar with a surface of each of the others, a normally flat sheet covering for said framework adapted to fit snugly upon the coplanar surfaces of the boundary members of said frame and having its edges fastened to the said boundary members and a longitudinally arranged bowing member disposed between said sheet covering and the intermediate members of the framework for the purpose set forth.

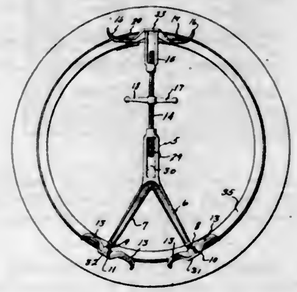
1,472,129. SHELF. CLYDE C. MEIXELL, Bethlehem, Pa. Filed Dec. 9, 1921. Serial No. 521,114. 4 Claims. (Cl. 211—27.)



1. A shelf of the character described comprising an auxiliary shelf having spaced apart rearwardly extended bearing arms and an intermediate bearing member, and a keeper constructed to be permanently supported below a fixed shelf, said arms and bearing member being positioned to slidably engage the under side of a permanent shelf, said keeper being positioned to be slidably engaged by said bearing member.

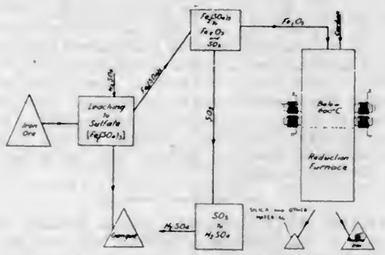
1,472,130. COMBINED TIRE CARRIER AND RIM TOOL. JOSEPH J. MILLER, Highland Park, Mich. Filed Dec. 28, 1922. Serial No. 609,539. 2 Claims. (Cl. 224—29.)

2. In a device of the class described, and in combination a central member having a pair of radially extending arms on its one end and a screw threaded aperture on its other; a bar screw threaded into said aperture and having on its other end an oppositely inclined-spiral screw thread; an arm screw threaded upon said last mentioned end of the screw threaded bar; a hand lever rigidly fixed near the middle of said bar; double concave clasps adapted to fit the inner periphery of an automobile tire rim attached to the extreme outer end of said arm and simi-



lar clasps screw threaded upon each end of said radially extending arms; one of said pairs of concave clasps apertured to receive the air valves of automobile tires; a flat portion between each of said pairs of clasps adapted to engage portions of the inner periphery of an automobile tire rim and inwardly clawed hooks on the sides thereof adapted to clutch the lips of such a rim.

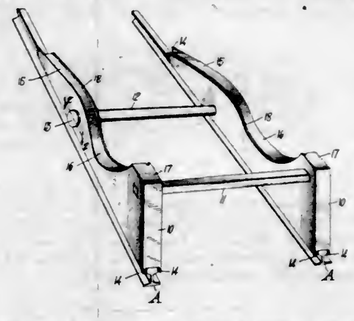
1,472,131. PROCESS OF OBTAINING PURIFIED IRON FROM ITS ORES. ARTHUR J. MOXHAM, New York, N. Y. Filed Aug. 21, 1919. Serial No. 318,851. 7 Claims. (Cl. 75—17.)



1. The process of treating iron ore to obtain purified iron and material containing a high content of the other metallic ingredients of the ore, which comprises leaching the ore with a solvent adapted to combine with the iron, separating the resultant iron compound from the silicious gangue, subjecting said iron compound to heat to drive off the solvent and to form oxides and to heat in the presence of carbon to convert it to the magnetic condition by reduction of the oxides and applying magnetism during said reducing heat treatment to separate the iron and treating the remaining gangue to separate it from any other metallic ingredients.

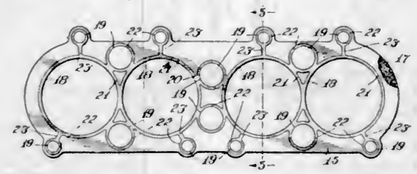
1,472,132. CAR STOP. WARREN M. OSBORN, Chicago, Ill. Filed Feb. 26, 1923. Serial No. 621,437. 2 Claims. (Cl. 104—259.)

2. A car stop comprising an opposite pair of connected blocks, each having flanges forming a rail channel in its lower edge and an inclined way and a wheel-seat on its upper edge, and a cross roller rotatably mounted in the blocks with the lower portion of its circumference in the



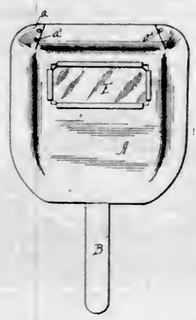
channels thereof to rest upon the rails, one of the flanges of each block being constructed to engage an abutment when the block is slid forwardly by the car wheel.

1,472,133. GASKET. FRANK J. OVEN, Chicago, Ill., assignor to Victor Manufacturing & Gasket Co., Chicago, Ill., a Corporation of Illinois. Filed July 21, 1921. Serial No. 486,327. 7 Claims. (Cl. 288—1.)



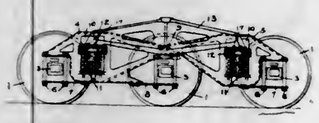
1. A gasket composed of a body formed with a plurality of openings therethrough, and a binder consisting of a plurality of rings united in a skeleton structure, the rings extending through the openings in the body of the gasket and flanged upon both faces of the same.

1,472,134. LENS-HOLDING DEVICE FOR FACE SHIELDS. GUST A. PETERSON, Chicago, Ill., assignor to Robert Malcom, Chicago, Ill. Filed May 17, 1920. Serial No. 382,059. 4 Claims. (Cl. 2—149.)



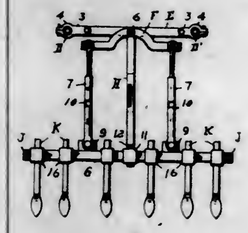
1. A device of the class described comprising a shield having a body portion of opaque material having an elongated window opening therein, said body portion being slit and overlapped on the edge thereof, a rim attached to the shield within said opening for supporting a transparent member therein, a leaf spring positioned between the rim and transparent member at each end thereof to maintain it in position.

1,472,135. CAR CONSTRUCTION. JOHN A. PILCHER, Roanoke, Va. Filed Feb. 11, 1921. Serial No. 444,168. 9 Claims. (Cl. 105—195.)



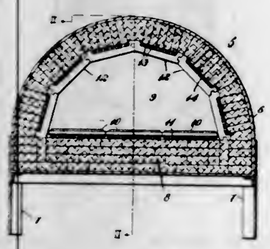
1. In a car truck having a plurality of wheels and axles, side members extending between the axles, a centrally arranged equalizer member associated with the side members and supported thereby, a load receiving seat upon each equalizer member, and a rotatable load transferring member operable upon the said seat.

1,472,136. TRACTOR. HARRISON QUINBY, Indianapolis, Ind., assignor to William H. McFarland, Pittsburgh, Pa. Filed May 3, 1922. Serial No. 558,172. 6 Claims. (Cl. 97—48.)



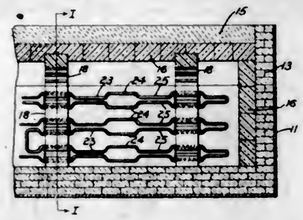
1. In combination with a tractor, a pair of rearwardly extending handle bars pivotally connected to said tractor to swing on horizontal axes, a spreader bar interposed between the handle bars, the ends of said spreader bar being flexibly connected to said handle bars, a yoke pivotally connected at its center to the center of said spreader bar, a tool support, and depending links swingingly connecting the ends of the yoke with said tool support.

1,472,137. ELECTRIC RESISTANCE FURNACE. THOMAS A. REID, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 15, 1921. Serial No. 477,623. 6 Claims. (Cl. 204—64.)



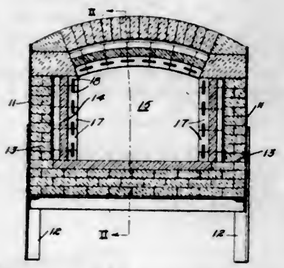
1. An electric furnace comprising a plurality of spaced-apart sets of refractory resistor-supporting plates combined to form substantially self-supporting arches, the plates in each set having interfitting tongue-and-groove edges, and directly supporting an electric resistor.

1,472,138. ELECTRIC FURNACE. THOMAS A. REID, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 2, 1921. Serial No. 512,167. 9 Claims. (Cl. 204—64.)



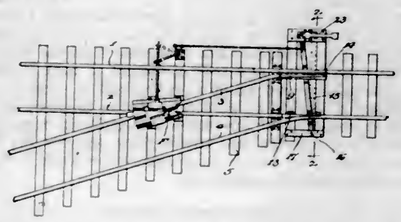
1. An electric furnace comprising a resistor having integral end-connected and substantially parallel-extending parts comprising oppositely offset portions.

1,472,139. ELECTRIC FURNACE. THOMAS A. REID, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 2, 1921. Serial No. 512,168. 6 Claims. (Cl. 204—64.)



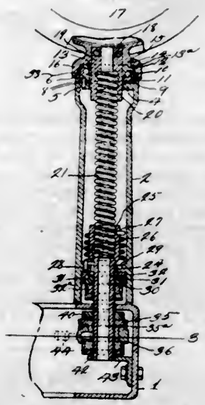
1. In an electric furnace, in combination, a plurality of walls spaced apart to enclose a furnace chamber, a plurality of spaced sets of refractory members of T-shape, having their narrow ends projecting into said chamber and each having a transversely extending slot in each of two opposite faces, and a resistor member extending through said slots and between and beyond said sets of refractory members.

1,472,140. SWITCH POINT. JOHN J. RONDERS, Monongah, W. Va. Original application filed Oct. 26, 1922, Serial No. 597,016, now Patent No. 1,463,227, dated July 31, 1923. Divided and this application filed Mar. 30, 1923. Serial No. 628,853. 2 Claims. (Cl. 246—431.)



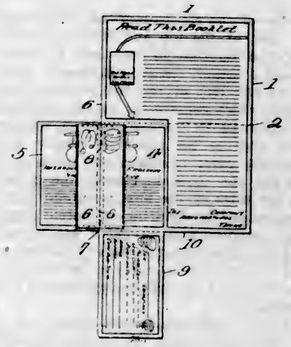
1. In a railway switch, the combination with main and siding rails, of a switch point substantially in alinement with one of said rails, means supporting the said point and hingedly mounting the same at its base for tilting movement toward and away from the other rail, and means for tilting the point comprising a pivoted bar, means for moving the bar about its pivot, and means upon the bar coacting with the opposite sides of the point for tilting the point toward the said other rail when the bar is swung in one direction and tilting the point towards the said other rail when the bar is swung in the opposite direction.

1,472,141. DIRIGIBLE HEADLIGHT. JOSEPH SHOWALTERBAUGH, Gary, Ind., assignor to Albion John Miller, Hammond, Ind. Filed Sept. 11, 1922. Serial No. 587,332. 4 Claims. (Cl. 240—62.)



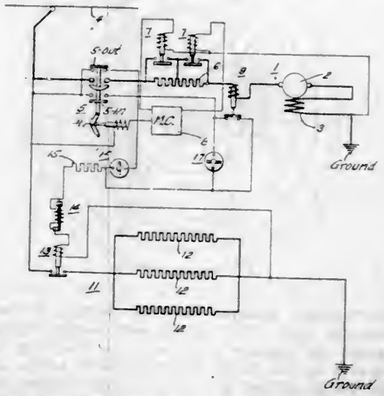
4. A dirigible headlight comprising a hollow post, a rotatable sleeve mounted in a bearing in the lower end of the post, means whereby said sleeve may be rocked, spring means for normally maintaining the sleeve in normal position, a lamp disposed on the upper end of the sleeve, beveled bearing members oppositely disposed and interposed between the lamp and the post, and a coiled spring connected to the lamp and to the sleeve and forming a flexible shaft connection between the sleeve and the lamp.

1,472,142. COMBINATION MAILING FORM. EDWARD P. SHURICK, Knoxville, Tenn., assignor of one-half to Samuel P. Beisinger, Knoxville, Tenn. Filed Jan. 11, 1922. Serial No. 528,439. 5 Claims. (Cl. 229—92.1.)



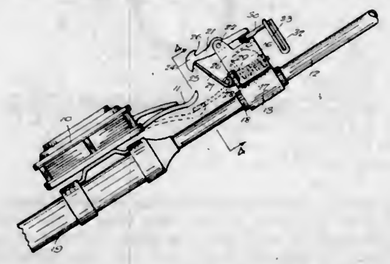
1. A single paper blank having suitable indicia on one face thereof and adapted to be folded to a more compact size for mailing, one face of said blank having an isolated indicia bearing portion lying between a fold line and the marginal line of the blank, said isolated portion integrally supporting a plurality of flaps or extensions adapted to fold one upon the other within the marginal line of said isolated portion of said blank and provided with desired indicia.

1,472,143. CAR-HEATING SYSTEM. KARL A. SIMMON, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 11, 1921. Serial No. 468,685. 6 Claims. (Cl. 219—20.)



1. In a control system, the combination with a dynamo-electric machine and means for governing the operation of said machine, of a heating device, automatic means for governing the operation of said device in accordance with the value of the current traversing said machine, and means for rendering said automatic means ineffective, at will.

1,472,144. AUTOMATIC FISHING-LINE REEL. WILLIAM C. STOCKLIN, Columbus, Ohio, assignor of one-half to Emmett E. Rub, Columbus, Ohio. Filed Mar. 26, 1923. Serial No. 627,877. 6 Claims. (Cl. 242—84.5.)

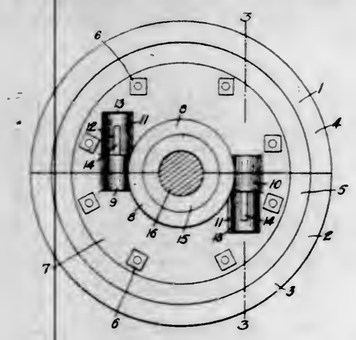


1. The combination with an automatic fishing line reel having means normally holding the same inactive, and mechanical line-actuated means for releasing said holding means when the line is pulled away from the reel including a reel engaging member, a trigger normally holding said engaging member in inactive position, and a line-actuated trip member normally controlling said trigger.

1,472,145. SPLIT PULLEY. ARCHILLE VILLENEUVE, Levis, Quebec, Canada, assignor to Levis Tool Factory, Ltd., Levis, Quebec, Canada. Filed Dec. 24, 1921. Serial No. 524,765. 1 Claim. (Cl. 64—18.)

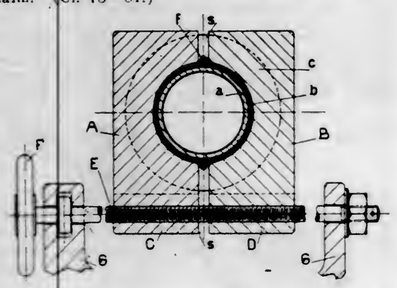
A split pulley, embodying a pair of companion sections, each comprising a hub portion, a rim portion and a connecting web therebetween; said companion sections hav-

ing mating edges, each of which is formed at opposite sides of the hub portion thereof with a pair of enlargements, one enlargement of each such pair having a hole which extends therethrough into the adjacent portion of the web, and the other enlargement having a pin secured in it and provided with a projecting part which is slotted; the enlargements on one section being located immedi-



ately opposite those on the other section, so that the projecting part of the pin on each section will extend through the opposite enlargement in the other section and into the hole in the web of the latter section and its slot will be exposed in said hole; and a wedge member inserted through the slot in the projecting part of each pin.

1,472,146. METHOD FOR MANUFACTURING RIBBED PIPES. KARL WINKELMÜLLER, Leipzig-Lindenau, Germany. Filed Aug. 5, 1921. Serial No. 490,131. 1 Claim. (Cl. 78—81.)

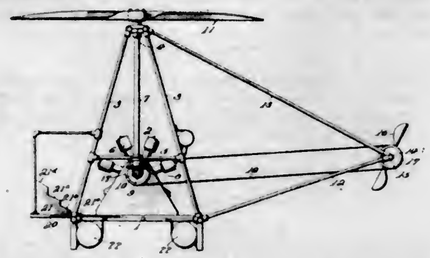


A method for the manufacturing of ribbed pipes consisting in producing on the inner edge of the annular disk designed to form the rib a flange the inner diameter of which is slightly greater than the outer diameter of the pipe, in pushing the flanged annular plates on the pipe and in compressing the flanges of said annular disks while in the cold state by means of a pressing machine so that the inner surface of the flange is tightly pressed upon the pipe the excess metal of the flange being formed by extrusion into two beads.

1,472,147. GEAR WHEEL. ARTHUR J. BASTIAN, Wilkinsburg, Pa., assignor to Western Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 5, 1919. Serial No. 308,731. 8 Claims. (Cl. 106—22.)

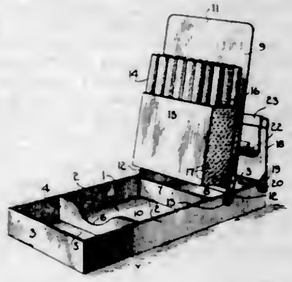
1. A moldable material comprising a mixture of small pieces of woven sheet material and ground cork, both impregnated with a binder which may be hardened by the application of heat and pressure.

1,472,148. HELICOPTER. EMILE BERLINER, Washington, D. C. Filed Oct. 4, 1918, Serial No. 256,843. Renewed May 3, 1922. Serial No. 558,313. 2 Claims. (Cl. 244—19.)



1. A helicopter including in combination, a supporting frame, a motor carried thereby, a vertical shaft mounted in the frame and actuated by the motor, a horizontal lifting propeller carried by said shaft, an air pressure device located at one side of the frame and actuated by the vertical shaft for producing horizontal air pressure which will counterbalance the torque of the driving shaft and propeller, a laterally projecting frame on which the operator may move back and forth from the center of the helicopter for inclining the vertical shaft to direct the flight of the helicopter, said laterally projecting frame having a series of inclined steps for the operator.

1,472,149. COMBINATION SMOKER'S SET. BERNARD MARK BERNARD, Sioux City, Iowa. Filed May 13, 1922. Serial No. 560,652. 2 Claims. (Cl. 131—51.)

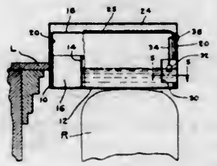


1. A device of the class described, comprising an elongated box open at the top and having transverse partitions in spaced relation to each end to define two end chambers and a larger, central chamber, a cover hingedly connected at one end of the box to cover the adjacent end chamber, which constitutes an ash receptacle, and to be swung upwardly in vertical position, supports carried by the free edge of the cover to receive burning cigarettes when the cover is raised and to be housed in the chamber when the cover is closed, and a second cover hinged to the sides of the box to extend over the opposite end chamber, constituting a match receptacle, and the central chamber, and having a depending pocket on its under side fitting into the latter chamber, said pocket being open at one end to carry a package of cigarettes and expose the same for withdrawal when the cover is in raised position.

1,472,150. HUMIDIFIER. WILLIAM BOSS, St. Paul, Minn. Filed Apr. 7, 1922. Serial No. 550,543. 2 Claims. (Cl. 237—78.)

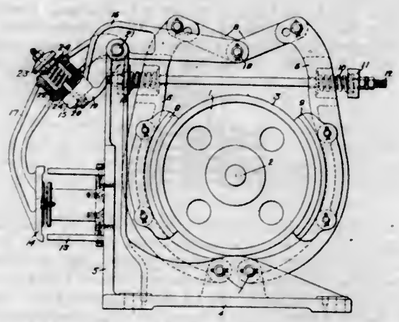
1. A humidifier comprising a casing adapted to rest upon the top of a radiator, a water receptacle constituted by the forward portion of said casing, the rear wall of

said casing being substantially parallel to and of the same height as the rear wall of said water receptacle whereby a vertical passageway is formed for heated air from the radiator, a plurality of rods having horizontal portions extending above said water receptacle between the front and rear thereof for supporting a fabric with portions thereof extending down into said water recep-



tacle and having downwardly bent ends secured to said casing, and a cover for said casing for causing the heated air passing through said passageway to impinge upon said fabric, said cover having a peripheral depending flange, the rear portion of which forms an upward continuation of the rear wall of said casing, and the forward portion of which is provided with perforations for the escape of moistened air.

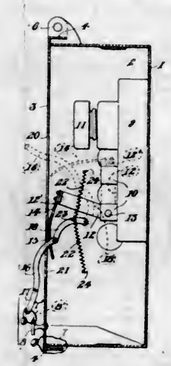
1,472,151. BRAKE. EDGAR M. BOUTON, Wilkinsburg, and RAOUL PRUGER, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 15, 1919. Serial No. 297,337. 6 Claims. (Cl. 188—171.)



6. In a brake, the combination with a brake shoe, and an electromagnetic actuating device therefor, of a stationary member, means for connecting said device to said shoe comprising two arms pivotally mounted on said member, said arms being resiliently connected at the extremity of one arm and at an intermediate portion of the other arm.

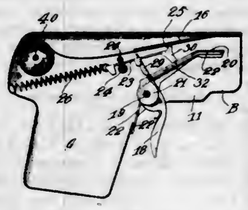
1,472,152. SERVICE BOX FOR SWITCHES. ABRAM BAILL, Spartanburg, S. C. Filed July 6, 1921. Serial No. 482,650. 3 Claims. (Cl. 200—50.)

3. In combination, a service box, a switch disposed therein, a hinged cover for the box having a key-hole-shaped slot therein, an insulated head substantially rectangular in plan view and longitudinally curved carried by the switch and having a transverse slot therein adjacent the outer end, and a handle extension embodying side arms pivoted in the side walls of the box and slid-



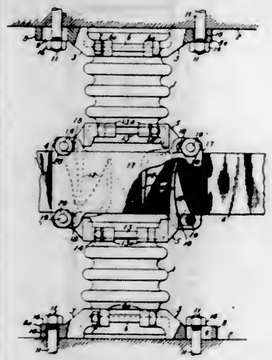
ably extending through the switch head slot and cover slot for controlling movement of the cover relative to the open and closed positions of the switch.

1,472,153. TOY PISTOL. LOUIS G. BRINKMAN, Dayton, Ohio, assignor to The Safety Automatic Toy Company, Dayton, Ohio, a Corporation of Ohio. Filed Mar. 15, 1922. Serial No. 544,006. 4 Claims. (Cl. 42—57.)



4. A toy pistol comprising a case, a plate in said case having a laterally bent portion forming an anvil, a stud on said plate, a trigger pivotally mounted upon said stud, a hammer pivotally mounted upon said stud, said hammer extending forwardly and upwardly within said case and being provided with a striker portion, spring means for normally maintaining said striker portion normally in contact with said anvil, a laterally extending lug on said hammer intermediate the striker and the pivotal axis of the hammer, a feeder reciprocably mounted on said plate, a guide-way on said plate for supporting and guiding said feeder, said feeder having a slot, an upwardly projecting portion on said trigger extending through said slot, said feeder being operable by the trigger to feed a strip of caps over said anvil, a downwardly and laterally projecting lug on said feeder adapted to engage the lug upon the said hammer throughout substantially the entire feeding movement of the feeder, the lug on said hammer being inclined relatively to the path of movement of the feeder whereby actuation of the feeder by the trigger causes the feeder to retract the hammer, said lug upon the hammer maintaining the feeder against the strip of caps throughout substantially its entire feeding movement, the lug upon the feeder passing beneath the hammer lug upon the return movement of the feeder whereby the feeder is prevented from engaging the cap strip during substantially its entire return movement.

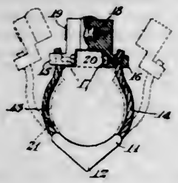
1,472,154. BUS-BAR-SUPPORTING STRUCTURE. JAMES M. BROWN, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 31, 1918. Serial No. 269,131. 13 Claims. (Cl. 175—300.)



2. The combination with an insulator and a conductor, of a terminal member mounted on the insulator and having a portion extending to a position beside the conductor, and a floating clamp for holding the conductor frictionally movable against said extending portion to compensate for temperature changes.

10. A switchboard structure comprising two aligned insulating members, a supporting base at each of the farthest-removed ends thereof, substantially-opposite attaching means rigidly secured to said bases, and adjustable means for securing said insulating members to said attaching means, said adjustable means permitting said insulating members to be adjusted to accurately-aligned relation, regardless of discrepancies in the opposite relation of said attaching means.

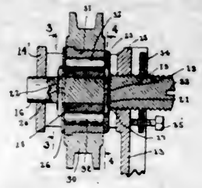
1,472,155. WIRE-ROPE SHACKLE FOR AUTOMOBILE WHEELS. EARLE E. CHAPMAN, Los Angeles, Calif., assignor to Miller-Chapman Company, a Corporation of California. Original application filed Mar. 3, 1917, Serial No. 152,213. Divided and this application filed Mar. 2, 1920. Serial No. 363,088. 6 Claims. (Cl. 70—90.)



1. A shackle for an automobile wheel comprising a bumping block; two flexible wire arms, one secured to one side of said block and the other secured to the other side of said block; two heads each secured to the other end of one of said wire arms; and means for locking said heads together.

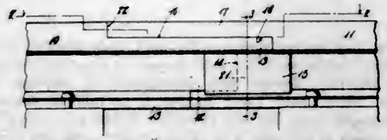
1,472,156. DOOR HANGER. IRVIN W. DAVIS, South Milwaukee, Wis., assignor to The Midland Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 12, 1922. Serial No. 594,104. 7 Claims. (Cl. 16—98.)

1. In an arrangement of the class described, a hanger frame, a longitudinally adjustable spindle mounted in said frame, means for locking said spindle in its adjusted positions, a pulley mounted on said spindle and



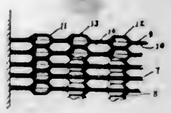
means for locking said pulley on said spindle to prevent axial displacement.

1,472,157. RAIL JOINT. ERNEST LEROY ELLIS, Fulton, N. Y. Filed Dec. 1, 1922. Serial No. 604,384. 2 Claims. (Cl. 238—231.)



2. A rail joint comprising rail sections having ends in interfitting relation, the end of one rail having the lower half of its tread cut away to provide an underlying recess, a portion of the web of said rail being extended upwardly into the said recess, the other of said rails having the upper part of its tread portion cut away adjacent its end to provide a portion to enter the recess of the other rail thereby forming a continuous tread, and the end of said last named tread being bifurcated to receive projecting portion of the web of the other rail, substantially as described.

1,472,158. RADIATOR. MAURICE I. FALLIER, Arkansas City, Kans., assignor to The Nu-Way-Radiator Mfg. Co., Arkansas City, Kans., a Corporation of Kansas. Filed Oct. 14, 1922. Serial No. 594,489. 1 Claim. (Cl. 257—125.)

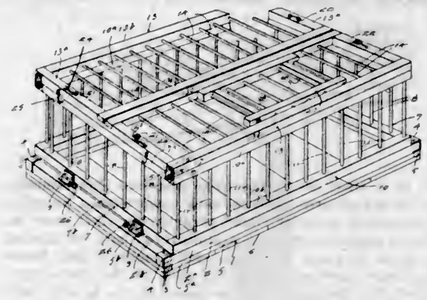


A radiator core comprising a plurality of superposed complementary sections, each section composed of duplicate longitudinal plates joined together, and a plurality of opposed dish-shaped depressions pressed outwardly on each of said plates, at spaced intervals, forming a series of shallow hollow pockets having flattened apertured ends and tapered walls providing a substantially vertical passage through the pockets, said pockets having said ends abutting and connected to the ends of adjacent pockets of adjoining sections in such a manner that said sections may be removed in a horizontal direction, the openings through the abutting ends registering and all the openings having their peripheral edges in alignment providing uninterrupted communication between the pockets and a straight vertical passage through all the pockets.

1,472,159. COLLAPSIBLE COOP. JETHRO O. FARRAR, Elkton, Va. Filed Jan. 4, 1922. Serial No. 526,926. 1 Claim. (Cl. 217—47.)

A collapsible coop comprising a base having a solid bottom located on its underside, means for bracing the corners of said base, open work end sections hinged to said base and adapted to be folded into the same when the coop is in collapsed condition, open work side sections

hinged to the edges of said base and adapted to be folded inwardly upon the end sections when the coop is in collapsed condition, and open work cover sections con-



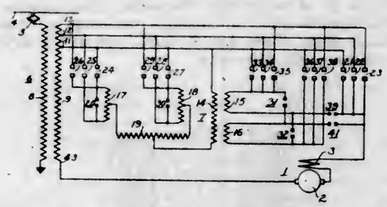
nected with said side sections by sliding link connections to permit folding of said cover sections against the outer faces of said side sections when the coop is in collapsed condition.

1,472,160. DUST CAP FOR TIRE VALVES AND THE LIKE. ALBERT FESSLER, High Bridge, N. J. Filed Mar. 25, 1922. Serial No. 546,636. 3 Claims. (Cl. 152—12.)



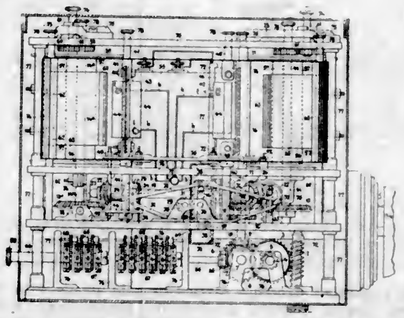
3. A dust cap constructed of soft metal and having a relatively short internally threaded surface arrested by a sealing shoulder capable of peening or flowing under exerted pressure, with a recess extending back of the shoulder, the wall of the cap being reinforced in the zone of the shouldered portion.

1,472,161. SYSTEM OF CONTROL. CHARLES LE G. FORTESCUE, Pittsburgh, and LLOYD J. HIBBARD, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 14, 1921. Serial No. 469,563. 10 Claims. (Cl. 171—119.)



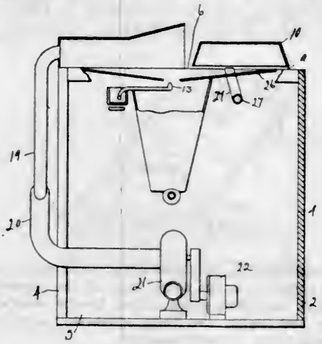
1. In a control system, the combination with a translating device, of a main transformer having a plurality of taps, and an auxiliary transformer, means comprising a plurality of individual contactors and circuits for successively connecting said taps to said device to vary the voltage thereof, and means comprising a plurality of individual contactors and circuits for connecting said auxiliary transformer to said device and to said main transformer for more gradually varying the voltage thereof, said first and second means co-operating to prevent the interruption of any circuit while it is carrying a relatively large current.

1,472,162. ALARM TAXIMETER. JUAN ALONSO GATO, Miranda de Ebro, Spain. Filed Aug. 5, 1920. Serial No. 401,450. 2 Claims. (Cl. 40—42.)



1. In a route indicator for vehicles, a flexible panoramic band having circuit closing members thereon, winding and unwinding spools for receiving and issuing the band, means for moving said band in accordance with the movement of the vehicle, and means for reversing the movement of the band, said means including a shaft having an exterior operating handle and a rack pinion on the the inner end thereof, a rack device operated by said pinion and consisting of oppositely extending arm members having racks at their extremities, and electric terminal members arranged to be engaged by the circuit closing strips carried by the band.

1,472,163. PAN-GREASING MACHINE. GEORGE L. GAY, Philadelphia, Pa., assignor to William C. McTarnahan and Norman Stevenson, both of Boston, Mass. Filed Apr. 14, 1922. Serial No. 552,779. 4 Claims. (Cl. 91—45.)

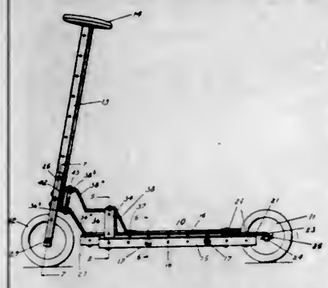


1. A pan greasing machine having a hood, a passageway for the pans to move into and out of the hood, atomizers in position to spray the pans while covered by the hood, an exhaust outlet from the hood, means for causing a suction of the vapors out from within the hood through said outlet, and an air nozzle which is so positioned as to discharge into the pans as they are moved out from the hood to blow any remaining vapor in the pans back into the hood toward the exhaust outlet therefrom.

1,472,164. TOY VEHICLE. ALFRED C. GILBERT, New Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Filed Mar. 20, 1919. Serial No. 283,698. 6 Claims. (Cl. 280—87.5.)

2. A wheel toy having a body composed of a plurality of elongated elements secured together, the rear ends of

certain of said elements being spaced apart, looped straps secured to the spaced rear end of said elements

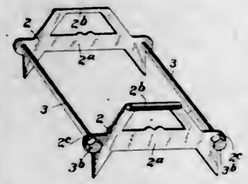


and a wheeled structure carried by said straps with the wheel thereof disposed between the spaced ends of the body elements.

1,472,165. METHOD OF MAKING BRUSHES. WILLIAM F. GRAUL, Northampton, Mass., assignor to Fannie B. Look, Eldon MacLeod, William Cordes, and George H. Burr, trustees, doing business as Florence Manufacturing Company. Filed Mar. 3, 1919. Serial No. 280,504. 5 Claims. (Cl. 300—21.)

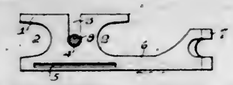
1. The method of making brushes which consists in setting tufts of bristles in their natural state in holes formed in celluloid brush backs and by the application of a solvent of celluloid, causing the original material of the brush back about the several tufts to engage the bristles and secure the same in place.

1,472,166. ACID-PROOF CONTAINER. RICHARD T. GRIFFITHS, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 30, 1922. Serial No. 598,025. 5 Claims. (Cl. 206—2.)



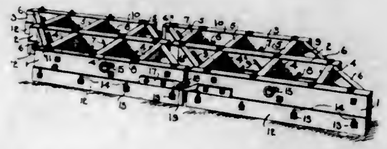
3. In combination, an acid-proof container having grooves or channels in the outer faces of the opposed side walls thereof near their upper edges, handle members engaging the end walls, and rods connecting said handle members and lying in said recesses.

1,472,167. WIRE STRETCHER. JOHANNES GRIMME, Godesberg-on-the-Rhine, Germany, assignor to the Firm of Hermann Heinrich Böker & Co., Bonn, Germany. Filed Apr. 5, 1922. Serial No. 549,872. 8 Claims. (Cl. 24—71.3.)



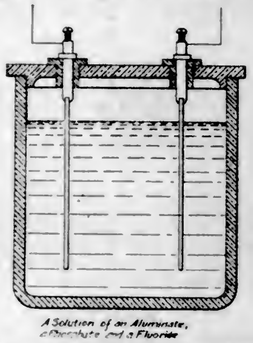
1. As a new article of manufacture a wire stretcher generally oblong in shape, provided in one of its longer sides with a notch, and provided in each of its shorter sides with a notch, and having an extension terminating in a laterally bent notched portion.

1,472,168. ROAD DRAG. GEORGE H. GUNDERSON, Potter, Nebr., assignor of one-half to Patrick Maginnis, Kimball, Nebr. Filed June 15, 1922. Serial No. 568,553. 6 Claims. (Cl. 37—151.)



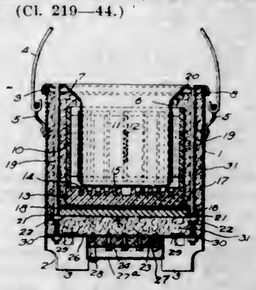
1. In a structure of the class described, the combination of one or more sections each comprising a plurality of transverse parallel frame bars having their ends located in staggered relation, a plurality of bars for spacing the frame bars and secured at right angles to said frame bars, brace bars connecting the ends of the frame bars, tie rods for binding the frame bars and the spacing bars in rigid relation with each other, and scraper blades mounted on the transverse frame bars.

1,472,169. ELECTROLYTE FOR ELECTROLYTIC CONDENSERS. EARL J. HAVERSTICK, Oakmont, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 23, 1921. Serial No. 454,892. 3 Claims. (Cl. 175—315.)



1. An electrolyte for electrolytic condensers, lightning arresters, rectifiers and the like which comprises a solution of an aluminate, a phosphate and a fluoride.

1,472,170. ELECTRICALLY-HEATED SOLDER POT. JULIUS D. HAYNSWORTH, Mansfield, Ohio, assignor to Westinghouse Electric Products Company, a Corporation of Ohio. Filed Mar. 30, 1921. Serial No. 456,801. 5 Claims. (Cl. 219—44.)



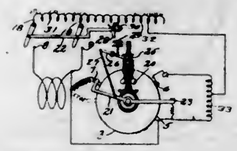
1. In an electrically heated apparatus, the combination with a casing and a combined container and casing cover member in said casing, of heat insulating means located between said cover member and the upper edge of said casing for reducing the heat flow therebetween.

1,472,171. ELECTRIC HEATER. JULIUS D. HAYNSWORTH, Mansfield, Ohio, assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed May 14, 1921. Serial No. 469,441. 1 Claim. (Cl. 219—38.)



An electric heating means for use in explosive-vapor-filled rooms comprising a resistor member adapted to be heated substantially to incandescence, a perforated cylindrical casing surrounding said resistor member, imperforate heads secured to said cylindrical casing, and a substantially tubular fine-mesh screen inside of said casing and having its ends secured thereto.

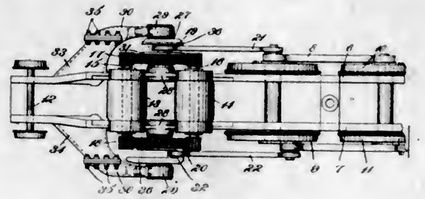
1,472,172. SINGLE-PHASE COMMUTATOR MOTOR. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 26, 1917. Serial No. 144,663. 5 Claims. (Cl. 172—276.)



1. The combination with a dynamo-electric machine having a commutator comprising a plurality of brushes, and a field-magnet winding, of means dependent upon the operation of said machine for automatically changing the position of one of said brushes and maintaining the same in engagement with the commutator cylinder, auxiliary contact members adapted to be closed for a certain position of said movable brush, and interlocking means for preventing the establishment of a circuit for said field winding when said movable brush occupies certain positions.

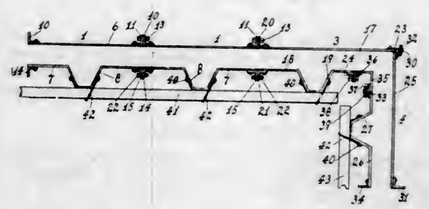
1,472,173. DRIVING CONNECTION FOR LOCOMOTIVES. GEORGE H. F. HOLY, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 23, 1921. Serial No. 454,687. 9 Claims. (Cl. 105—108.)

1. In combination, in a locomotive driving mechanism, a motor-driven shaft extending transversely of the locomotive frame and having pinions mounted on each end thereof, and gears mounted adjacent to the said shaft and



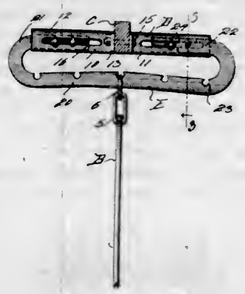
meshing with each of the pinions, said gears being mounted independently of one another, and having flexible connection with the traction wheels of the locomotive.

1,472,174. CONCRETE-BUILDING FORM. DAVID D. HUGHES, Oakland, Calif. Filed Jan. 31, 1921. Serial No. 441,201. 5 Claims. (Cl. 25—131.)



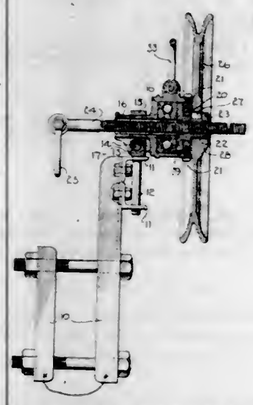
5. A building form including outer and inner panels, the inner panel having a vertical trough shaped impression therein whereby a rib may be formed outwardly on the inner wall of the building being constructed, said impression being located midway between the vertical edges of the inner panel.

1,472,175. ALIGNMENT DEVICE FOR COW STANCHIONS. ESKEL L. JOHNSON, Clarissa, Minn. Filed May 4, 1923. Serial No. 636,623. 3 Claims. (Cl. 119—147.)



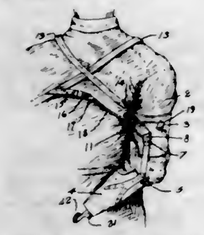
1. The combination with a cow stanchion and a supporting stanchion beam, of an alignment device for the stanchion comprising a supporting bar arranged to extend at right angles to the cow stanchion, arms carried by the bar and disposed above the same having the terminals thereof arranged in spaced relation, adjustable clamping members carried by the arms for engaging the beam, a ring carried by the bar for engaging a stanchion to permit the stanchion to be adjusted in a horizontal plane toward and away from said stanchion beam.

1,472,176. JACK FOR DEAD-END INSULATORS. TOMLINSON FORT JOHNSON, Jr., Atlanta, Ga. Filed Aug. 12, 1922. Serial No. 581,452. 10 Claims. (Cl. 254—67.)



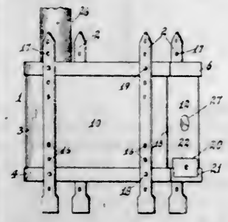
1. In combination with a jack screw, a clamp adapted to mount the jack screw on a transmission line support, and means connecting the clamp and the jack screw whereby the latter may turn in two different planes after the clamp is secured in position.

1,472,177. ARTIFICIAL ARM. FRANK A. KENNEY, Denver, Colo. Filed Oct. 19, 1922. Serial No. 595,555. 5 Claims. (Cl. 3—12.)



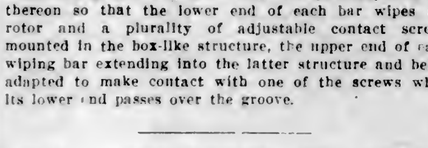
1. An artificial arm comprisign a section adapted to be laced to the upper arm, a loop on the side of said section next to the body, a web passing around the shoulder on the other side of the torso, crossing in the back, one end passing over the shoulder next to the artificial arm section, the other end terminating at the rear of the shoulder blade near the artificial arm, and a cord joining said ends and slidably connected to said loop.

1,472,178. STOVE. MORRIS KLEIN, Oakland, Calif. Filed Feb. 21, 1922. Serial No. 538,230. 6 Claims. (Cl. 126—29.)



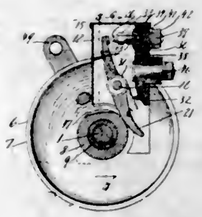
1. In a stove, a combustion chamber formed of a vertical sheet of metal bent into a U shape, a flat end wall closing the ends of the U, said flat end wall having an opening near its bottom, a fire drawer adapted to be inserted through said opening, said fire drawer serving as a combined fire receptacle, ash receptacle and as a draft means.

1,472,179. OYSTER OPENER. PETER C. LOFLAND, Milton, Del. Filed Feb. 8, 1923. Serial No. 617,784. 1 Claim. (Cl. 17—10.)



An opener of the class described having a handle, a blade extending from the handle, a rod substantially parallel with the blade and slidably disposed in an opening extending longitudinally of the handle, means to limit the outward sliding movement of the rod, said blade and rod being disposed on opposite sides of the longitudinal center of the handle, a guard on the rod adjacent its outer end, said guard having an opening through which said blade extends, the guard being relatively close to the handle and unobstructed at the inner surface of a portion thereof on a line passing transversely through the rod and knife, said portion being of a size to constitute an abutment for a finger on the hand grasping the handle and being adapted for engagement by said finger simultaneously with its engagement of the blade.

1,472,180. TIMER. HARRY GEORGE LORENSON, Newman, Calif. Filed Feb. 14, 1921. Serial No. 444,943. 2 Claims. (Cl. 200—27.)

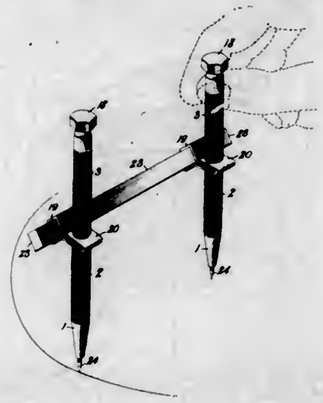


1. A timer comprising a rotary shaft having a plurality of transverse grooves evenly distributed over its surface in adjoining planes, a substantially bell-shaped housing loosely mounted over the rotor with freedom of rotary motion on the axis of the rotor having an upwardly extending box-like structure communicating therewith, a horizontal shaft mounted above the rotary shaft having a plurality of wiping bars pivotally mounted thereon so that the lower end of each bar wipes the rotor and a plurality of adjustable contact screws mounted in the box-like structure, the upper end of each wiping bar extending into the latter structure and being adapted to make contact with one of the screws when its lower end passes over the groove.

1,472,181. POCKET SCRIBERS AND COMPASSES. EDGAR WEIMER LOUDEN, Lebanon, Pa., assignor of one-half to Joseph G. Heichel, Lebanon, Pa. Filed Sept. 11, 1922. Serial No. 587,474. 9 Claims. (Cl. 33—158.)

1. A scriber comprising a body in three parts, namely a needle chuck part, an intermediate part and a needle magazine part, said chuck having a bore of two diameters connected by a frusto-conical surface, the bore

portion of larger diameter being threaded, the intermediate portion having a male element threaded into said threaded bore portion and having its end chambered eccentrically to its axis to engage said frusto-conical surface and having a needle bore concentric with its axis and with the bore of the chuck.



1,472,182. REAMER. ADAM MCCRACKEN, London, England. Filed Sept. 1, 1921. Serial No. 497,654. 2 Claims. (Cl. 255—74.)

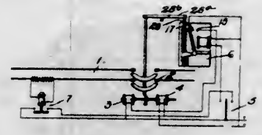
2. A rotary tool for the purpose set forth including a bar having a central horizontal bore formed with threads at its upper end and the lower end thereof being enlarged and provided with lateral slots, a feed rod having a threaded portion adapted to engage with the threads of the bore, a cylindrical fork shaped block carried by the lower end of the rod and arranged in the enlarged lower end of the bore, means for detachably and rotatably securing said feed rod to said block, a plug enclosing the enlarged end of the bar, and cutters slidably interlocked with the inner faces of the fork shaped cylindrical block and bearing against said plug, said cutters projecting through the lateral slots of the bar.

1,472,183. SOLDERING IRON. ALLIS M. MACFARLAND, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 18, 1921. Serial No. 493,295. 5 Claims. (Cl. 219—28.)

2. An electrically heated soldering iron comprising a resistor-container substantially cylindrical in form and having a plurality of longitudinally extending chambers and a plurality of laterally extending recesses connecting the ends of adjacent chambers and a resistor located in said chambers and recesses entirely beneath the surface of said resistor-container.

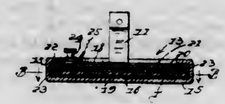


1,472,184. SWITCHING DEVICE. JOHN B. MACNEILL, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 4, 1918. Serial No. 215,390. 11 Claims. (Cl. 175—294.)



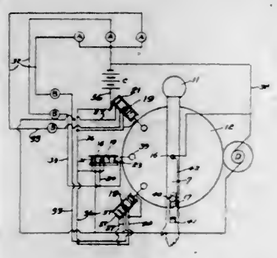
1. A switching device for a circuit interrupter comprising an electromagnet, two relatively movable armatures therefor, a stationary contact member, a co-operating movable contact member operatively connected to one armature, means actuated by the circuit interrupter for moving the other armature to its operative position and means for operatively connecting the armatures together.

1,472,185. VULCANIZING APPARATUS. ELMER A. MOLLENHAUER, Spokane, Wash. Filed Oct. 20, 1921. Serial No. 508,960. 2 Claims. (Cl. 219—9.)



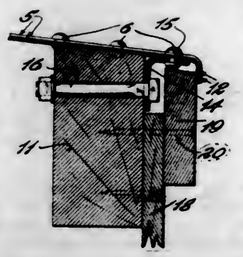
1. In a tire vulcanizing apparatus, a heating plate including a cup having a metallic bottom, a sheet of electric insulating and heat conducting material arranged within said cup and contacting with said bottom, an electric resistance coil arranged within the cup in direct contact with said sheet, solid filling material in which the coils of said resistance are imbedded, and a second sheet of material similar to the first sheet resting on said filling material.

1,472,186. DIRECTION INDICATOR FOR MOTOR VEHICLES. CARROLL E. MORRIS, Grimes, Calif. Filed May 8, 1920. Serial No. 379,852. 3 Claims. (Cl. 177—339.)



1. In a direction indicator, a motor having a pinion thereon, a motor circuit, a pivoted indicating signal normally hanging down having a gear wheel associated therewith engaging the pinion, a latch member on the gear wheel and a switch in the motor circuit including a lever extending with its rear end into the path of the latch member, the latter having an inclined face for depressing the lever while passing the same whereby the switch is opened.

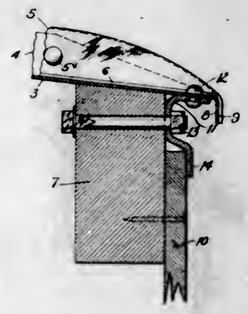
1,472,187. CAR ROOF. WALTER P. MURPHY, New York, N. Y., assignor to P. H. Murphy Company, Parnassus, Pa., a Corporation of Pennsylvania. Filed Jan. 10, 1921. Serial No. 436,170. 3 Claims. (Cl. 108—54.)



1. An eaves construction for car roofs comprising a side plate, metallic roofing extending outwardly beyond the outer face of said side plate, an angle having one flange secured to the outer face of said side plate and having its other flange projecting therefrom and secured to the under side of said roofing, the eaves end of said roofing being turned down beyond the outer edge of the outwardly projecting flange of said angle, side sheathing secured to the outer face of said side plate, and a fascia disposed between said side sheathing and the downward eaves end of said roofing and extending above the lower edge of said downturned end with its inner face flush with the outer face of said siding.

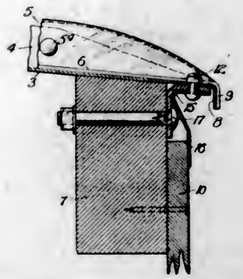
1,472,188. CAR ROOF. WALTER P. MURPHY, New York, N. Y., assignor to P. H. Murphy Company, New Kensington, Pa., a Corporation of Pennsylvania. Original application filed Jan. 10, 1921, Serial No. 436,170. Divided and this application filed Feb. 13, 1923. Serial No. 618,784. 5 Claims. (Cl. 108—5.4.)

1. An eaves construction for car roofs comprising a side plate, metallic roofing extending outwardly beyond the outer face of said side plate, side sheathing secured to the outer face of said side plate with its upper edge terminating below the upper surface thereof, and an eaves stiffener comprising an angle bar having one flange secured to the outer face of said side plate above said side



sheathing and having its other flange projecting therefrom and rigidly secured to the under side of said roofing, said first mentioned flange of said angle having an outwardly offset portion adapted to overlap the upper end portion of said side sheathing.

1,472,189. CAR ROOF. WALTER P. MURPHY, New York, N. Y., assignor to P. H. Murphy Company, New Kensington, Pa., a Corporation of Pennsylvania. Original application filed Jan. 10, 1921, Serial No. 436,170. Divided and this application filed Sept. 4, 1923. Serial No. 660,813. 3 Claims. (Cl. 105—54.)

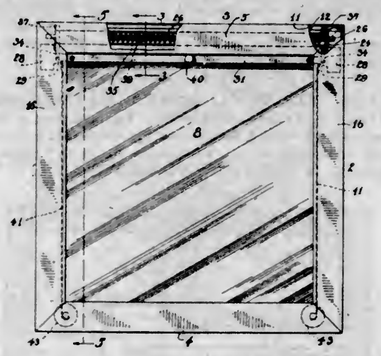


1. An eaves construction for car roofs comprising a side plate, metallic roofing extending outwardly beyond the outer face of said side plate, side sheathing secured to the outer face of said side plate, with its upper edge terminating below the upper surface of said side plate, an angle having one flange secured to the outer face of said side plate above said side sheathing and having its other flange projecting therefrom and secured to the under side of said roofing, and a flashing strip secured to said eaves angle and covering the upper edge of said side sheathing.

1,472,190. WINDOW CLEANER. HARRY NEWMAN, Brookyln, N. Y. Filed Aug. 16, 1922. Serial No. 582,325. 2 Claims. (Cl. 15—252.)

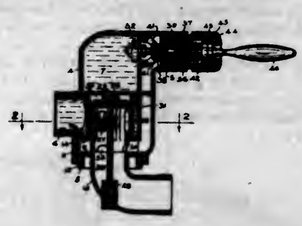
1. A window comprising a sash having hollow sides, top and bottom, a pane of glass engaged therein, cleaners disposed at the respective sides of the pane, a carriage slidable within each sash side connected with the respective ends of the cleaners, spring return means for the

carriages located in the sash top, the sash sides provided with slots, at both side of the pane, for the reciprocatory



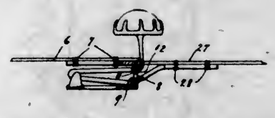
movement of the cleaners, slot closure tapes engaged with the carriages, and spring return means for the tapes contained in the sash bottom.

1,472,191. FLUSH VALVE. ROBERT NICHOLS and THOMAS L. TITUS, Omaha, Nebr. Filed Nov. 15, 1920. Serial No. 424,190. 4 Claims. (Cl. 137—93.)



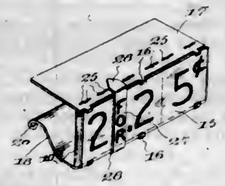
1. In a device of the class described, the combination with a housing having water inlet and discharge passages, and a valve controlling main ports opening from said inlet to said discharge passages, of a piston for actuating said valve, there being a chamber above said piston normally filled with water at inlet pressure and tending to close the valve, an annular chamber at the lower side of the piston being constantly exposed to inlet pressure tending to open the valve, means for relieving the pressure above the valve to enable opening thereof by the inlet pressure in the annular chamber, and means forming a chamber below the piston and for feeding to said chamber when the valve is open a balancing water-pressure tending to retard closing of the valve, there being a constant vent from the latter chamber whereby the balancing pressure therein is maintained below the inlet pressure.

1,472,192. GARMENT FASTENER. RICHARD ANTON NOWAK, Portland, Oreg. Filed Aug. 28, 1922. Serial No. 584,888. 1 Claim. (Cl. 24—230.)



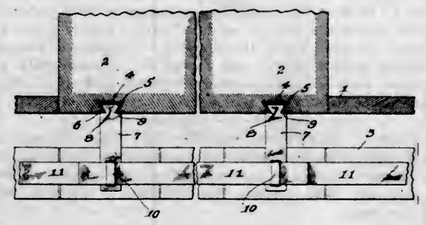
In a garment fastener a U-shaped receiving member having a slot in its base, a recess adjacent to the slot forming shoulders in the material and a plurality of perforations in one of its legs for receiving means for fastening the same to one edge of the garment, and an engaging member comprising a plate having perforations therein allowing the same to be fastened to the other edge of the garment and having a projection turned upon itself adapted to be forced through the slot terminating in a perpendicular arm forming shoulders with the same adapted to co-operate with the shoulders in the receiving member in locking the two members, the corners of the free leg of the receiving member being bent inwardly to prevent injury to adjacent garments.

1,472,193. INDICATOR. ALPHONSE POIRIER, Spokane, Wash. Filed Aug. 21, 1922. Serial No. 583,074. 3 Claims. (Cl. 40—86.)



1. An indicator comprising a base plate having rearwardly directed top and bottom flanges, charactered belts extending across the face of the base plate, rollers to which the ends of the belts are connected, said rollers being located behind the base plate between the aforesaid flanges and journaled therein, and an auxiliary indicator member comprising a charactered strip adapted to be positioned across the exposed portions of the belts and having top and bottom retaining flanges engageable with the first-mentioned flanges.

1,472,194. CONSTRUCTION TIE. CHARLES P. SCHAEFER, and ROBERT M. BROWN, Chicago, Ill. Filed Oct. 19, 1922. Serial No. 595,626. 8 Claims. (Cl. 72—20.)

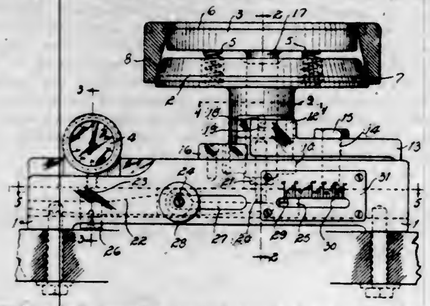


1. In a building structure, a main wall element having dove-tail grooves, having in cross section a wider interior than entrance, a veneer of building blocks, key strips having one end dove-tailed to fit the grooves, the other ends of said key strips overlying a course of blocks, and tie strips secured to the overlying ends of said key strips at right angles to them and overlying said course.

1,472,195. GAUGING INSTRUMENT. OSWALD SCHLAUPITZ, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Feb. 4, 1922. Serial No. 534,065. 14 Claims. (Cl. 33—178.)

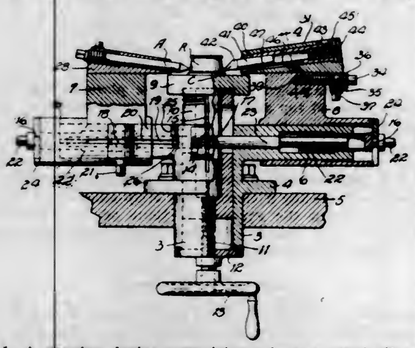
1. An instrument for gauging tapers comprising two axially alined gauging elements both adapted to simul-

taneously gauge the diameter of an article at different points in its length, said gauging elements being rela-



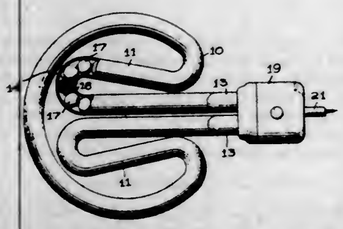
tively axially movable, an indicator and means for transmitting such relative movement to such indicator.

1,472,196. LIMIT GAUGE. OSWALD SCHLAUPITZ, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed June 3, 1922. Serial No. 565,648. 10 Claims. (Cl. 33—163.)



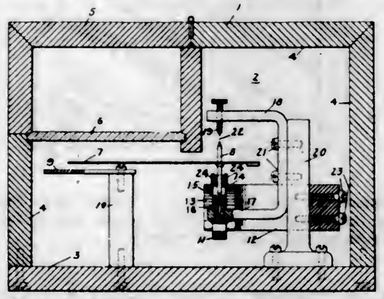
1. A gauging device comprising a base, a vertically adjustable article support mounted thereon, a pair of opposed gauging members mounted on said base and arranged one on each side of said support, one of said members being stationary and the other of said members being arranged to yield under the pressure of an article passing between said members, and means for independently adjusting each of said members towards and away from each other to vary the normal gap therebetween.

1,472,197. ELECTRIC WATER HEATER. ERNEST E. SUTHERLAND, Mansfield, Ohio, assignor to Westinghouse Products Company, a Corporation of Michigan. Filed Oct. 25, 1921. Serial No. 510,319. 1 Claims. (Cl. 219—41.)



In an electric immersion heater, in combination, a metallic tube comprising a plurality of return-bent portions located in one plane, whereby said heater may be supported in a fluid receptacle, and having end portions extending away from said return-bent portions, a flexible resistor in said tube, a plurality of perforated refractory members loosely mounted on said resistor for maintaining it substantially coaxial in said tube and for conducting heat to said tube and a combined terminal block and control switch casing secured to the ends of said tube whereby said heater may be handled to insert it in and remove it from, a fluid-containing receptacle.

1,472,198. ELECTRICAL MEASURING INSTRUMENT. HAROLD B. TAYLOR, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 16, 1917. Serial No. 202,312. 5 Claims. (Cl. 171—95.)

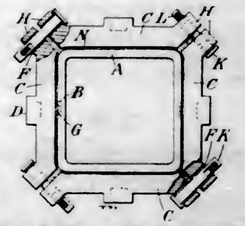


1. In an instrument, the combination with a movable coil, means for supporting said coil above its center of gravity to balance the same in stable equilibrium and constituting a single bearing only therefor, of magnetic means for counteracting unbalancing influences thereon.

1,472,199. CONSTRUCTION OF WINGS OF AEROPLANES, SEAPLANES, AND LIKE AERIAL MACHINES. BERNARD THOMSON, Woldingham, England. Filed May 12, 1923. Serial No. 638,630. 3 Claims. (Cl. 244—12.)

1. A wing structure for aeroplanes and the like comprising a main wing, a supplemental wing arranged in advance of the leading edge of the main wing, and spaced apart therefrom to form a transverse slot between said wings, said supplemental wing being formed in two parts, means supporting the supplemental wing parts for swinging movement about an axis located forwardly of the leading edge of the main wing, and means for moving each of said supplemental wing parts so that they may respectively close the upper and lower parts of said slot.

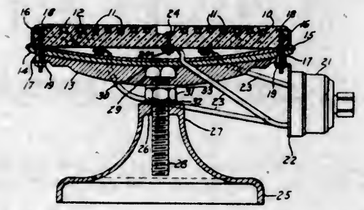
1,472,200. INGOT AND LIKE MOLD. ERNEST WALTON, Sheffield, England. Filed Apr. 24, 1922. Serial No. 556,138. 5 Claims. (Cl. 22—144.)



1. In ingot and like molds the combination of an outer metal casing, an integral metal lining and means for obtaining uniform thermal conductivity between lining

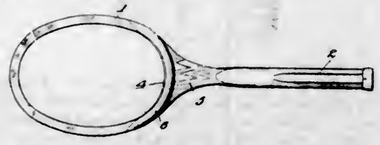
and casing comprising a conducting bonding material between the adjacent faces of the lining and casing, substantially as specified.

1,472,201. ELECTRICAL HEATER FOR COFFEE URNS. JAMES C. WOODSON, Mansfield, Ohio, assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed Oct. 20, 1921. Serial No. 509,129. 5 Claims. (Cl. 219—37.)



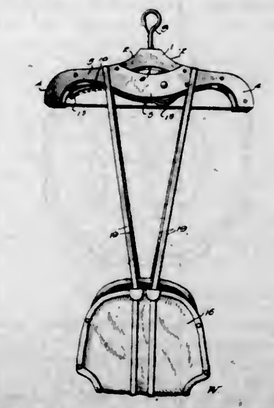
1. In an electric heater, in combination, a refractory member, a resistor located in said refractory member, a supporting means for said refractory member, means for reducing the flow of heat from said resistor to said supporting means, a base, and means for adjustably mounting said supporting means on said base.

1,472,202. TENNIS RACKET. WILLIAM TYLER ALDRICH, Chicopee, Mass., assignor to A. G. Spalding & Bros., New York, N. Y., a Corporation of New Jersey. Filed July 8, 1922. Serial No. 573,524. 3 Claims. (Cl. 46—24.)



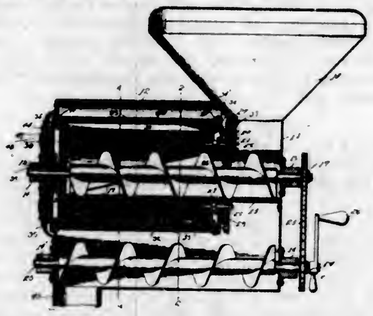
1. In a tennis racket a bow substantially oval in shape and having handle extensions, a throat piece between said extensions, veneer laminations overlying said handle extensions and throat piece and countersunk therein, and arc shaped reinforcing strips overlying the opposite faces of the throat piece adjacent the inner edge thereof and the adjacent bow portions, and secured thereto.

1,472,203. FIRE ESCAPE. WILLIAM T. BASSETT, Richmond, Va. Filed Nov. 14, 1922. Serial No. 600,878. 3 Claims. (Cl. 227—22.)



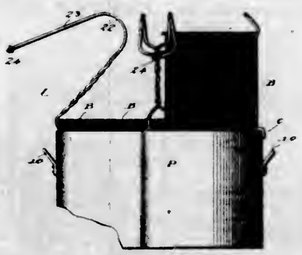
1. A fire escape comprising a supporting member, a reel carried by said member, a flexible cable mounted on said reel, and a cover for said member adapted to conceal said reel when in closed position, and being further adapted to be secured to said supporting member and form a seat when in open position.

1,472,204. FLOUR SIFTER. JOHNSON BREWER, Ferris, Tex. Filed Jan. 27, 1923. Serial No. 615,300. 4 Claims. (Cl. 83—51.)



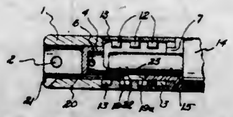
1. A flour sifting device comprising a hopper, a housing connected with the hopper, a rotatable screening drum mounted in the housing, a flour conveying tube disposed within the drum and communicating with the hopper, a flour moving means in the tube, stationary brushes bearing against the interior of the drum, a second flour moving means below the drum in position to receive sifted flour, and operative connections between the moving means and between one of the flour moving means and the drum for accomplishing the simultaneous rotation thereof.

1,472,205. COOKING UTENSIL. ALBERT HARRY BRUNNER, Marion, Ill. Filed Mar. 29, 1922. Serial No. 547,701. 5 Claims. (Cl. 53—7.)



1. In combination, a container, a receptacle adapted to be positioned within the container, a plurality of wires secured to the receptacle and extending from the upper end of the receptacle and bent to form a handle, said wires being integrally connected at their lower ends and extending beneath the receptacle and bent to form combined supporting legs and a clip, said clip being adapted to be engaged upon the upper edge of the container and support the receptacle in an elevated position for the purpose described.

1,472,206. COMBINATION CHAIN LOCK. WILLIAM BURKLE, Glendale, N. Y. Filed Oct. 24, 1922. Serial No. 596,600. 1 Claim. (Cl. 70—19.)



A device of the class described comprising a tubular body, a slotted sleeve secured thereto, a locking bolt, having a notch thereon and adapted to be inserted into

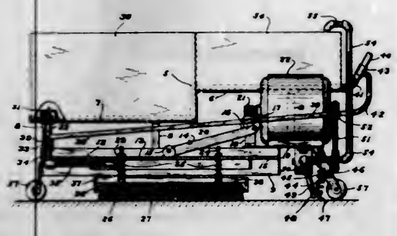
said sleeve, a blade having spaced apart lugs on said bolt, a separate flat spring secured to said sleeve, a lip on the said spring, adapted to normally engage the notched portion of said bolt and independently retain the latter in place, a plurality of collars having channels and annular runways rotatable on said sleeve, said channels when aligned with the sleeve slot being adapted to permit passage of the sliding bolt, said annular runways receiving the blade lugs and permitting rotation of the collars to the locked position, and a plunger slidable in said sleeve having a thumb shoe thereon, the latter when depressed being adapted to lower the spring lip and release the locking bolt.

1,472,207. CATTLE-HORN WEIGHT. ARNOLD A. COURTNEY, Ottumwa, Iowa. Filed Sept. 7, 1922. Serial No. 586,719. 3 Claims. (Cl. 119—144.)



3. A horn weight for cattle having a longitudinally extending bore, the walls thereof tapering in thickness toward one end, said tapering end being provided with a plurality of longitudinally extending slots to form spring gripping fingers.

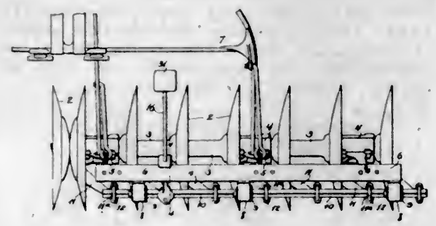
1,472,208. FLOOR-CLEANING MACHINE. ANTONIO DAWES, Philadelphia, Pa., assignor to Richard M. Wright, Philadelphia, Pa. Filed Jan. 3, 1922. Serial No. 526,721. 4 Claims. (Cl. 15—50.)



1. A machine for cleaning floors comprising superposed frames the lower of which is mounted on casters, reciprocable scrubbing brushes carried in said lower frame, cleaning and waste fluid tanks supported by the upper frame, means for automatically opening a supply connection from the cleaning fluid tank to the scrubbing brushes when the machine is in use, means for effecting the reciprocation of the aforesaid scrubbing brushes, and suction means for removing the waste fluid from the floor after the cleaning operation and forcing same into the waste fluid tank.

1,472,209. AGRICULTURAL IMPLEMENT. WILLIAM D. DEWEND, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed Apr. 19, 1922. Serial No. 555,546. 8 Claims. (Cl. 97—224.)

1. In an agricultural implement, the combination with a soil engaging disk and means for mounting the same, of a scraper for the disk, an oscillatory lever, means connecting said lever with said scraper whereby the scraper may be moved radially over a face of said disk, means whereby said lever may be adjusted laterally to adjust



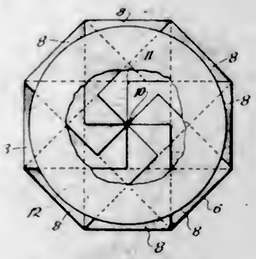
the pressure of the scraper against the disk and means for securing the adjusting means at any desired adjustment.

1,472,210. ANIMAL TRAP. ARTHUR JAMESON FALL, Iowa Falls, Iowa. Filed Feb. 19, 1923. Serial No. 619,984. 3 Claims. (Cl. 43—65.)



3. An open top hollow chamber, a closure swingingly mounted thereon having an opening, an inclined reticulated runway of tubular shape leading from said opening into said chamber and terminating above the floor of the chamber, and a reticulated gate mounted movably across the open inner end of the runway to close by gravity and to open yieldingly by a push from within the runway, said gate having at its lower end pointed projections directed toward and closing terminally against the runway.

1,472,211. PACKAGE FOR WALL PAPER, ETC. CLARENCE GALLISTEL, Chicago, Ill., assignor to Sefton Manufacturing Corporation, Chicago, Ill., a Corporation of New York. Filed Nov. 4, 1921. Serial No. 512,730. 3 Claims. (Cl. 229—37.)



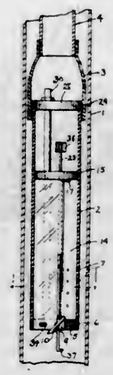
1. A container of the class described, comprising a number of rectangular side panels in excess of four, having rectangular end flaps hinged to the respective ends of each panel and of the same width, said end flaps being substantially equal in length to half the diameter of the package and each end flap overlapping the adjacent end flap on one side and underlapping the adjacent end flap on the other side.

1,472,212. ELECTRICALLY-CONTROLLED POWER-CUT-OUT SAFETY DEVICE. GEORGE GALPIN and DAVID H. BAER, Detroit, Mich., assignors to Morgan & Wright, a Corporation of Michigan. Original application filed May 18, 1918, Serial No. 235,304. Divided and this application filed Aug. 21, 1922. Serial No. 583,193. 8 Claims. (Cl. 192—2.)



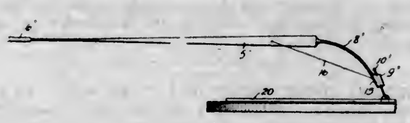
1. In devices of the character described, a driving member for a machine, a driving connection between said driving member and a source of power, a switch, a relay, and an electrical connection between the driving connection, the switch and the relay, whereby opening of the switch will open the relay and act upon the driving connection to stop the driving member.

1,472,213. FISHING TOOL FOR JUNK IN WELLS. DANIEL L. GILSTRAP, Batson, Tex. Filed Nov. 7, 1922. Serial No. 599,494. 5 Claims. (Cl. 166—18.)



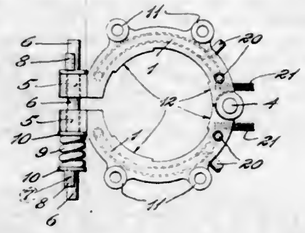
1. In a fishing tool, a tubular cylindrical housing, a closure for the lower end having a sector-shaped opening therein, a scraping blade on one side of said opening, a chamber in said housing having walls around said opening, a sliding door in the wall above said blade, automatic means to open said door actuated by contact of the tool on the bottom of the hole, and means to close said door when the tool is raised from the bottom.

1,472,214. DENTIPHONE. JOHN WISDOM GONCE, Anderson, Tenn. Filed Aug. 16, 1921. Serial No. 492,776. 3 Claims. (Cl. 181—28.)



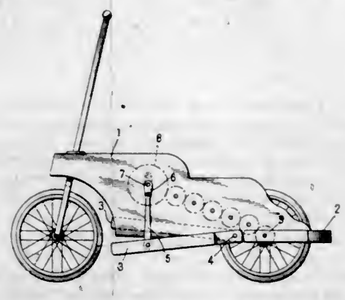
1. A device of the character described comprising a relatively thick main body portion, the ends of which are tapered in opposite directions to provide relatively thin end portions, an enlarged head formed on each of the end portions, one of said heads adapted to carry a stylus, substantially as described.

1,472,215. ELECTRODE HOLDER. GEORGE GOUGHNOUR, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed June 7, 1920. Serial No. 387,077. 5 Claims. (Cl. 204—64.)



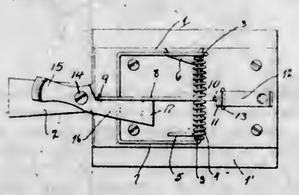
5. An electrode holder comprising members pivotally secured together and having perforated projections on their free ends, a locking bar passing through said holes in said projections and having tapered slots near each end thereof, tapered locking pins in said slots, and a resilient member arranged between one of said pins and one of said projections.

1,472,216. WHEELED VEHICLE KNOWN AS SCOOTER. ALONZO MORTON GREENE, New London, Conn. Filed Dec. 14, 1921. Serial No. 522,373. 5 Claims. (Cl. 208—34.)



1. A vehicle comprising a flat vertically disposed body, a platform secured to the lower rear end thereof, a shaft with wheels supporting said platform, a steering rod and wheel connected to the front end of said body, treadles pivoted at opposite sides of said body immediately in front of said platform, a crank shaft supported by said body and connected to said treadles and a driving connection between said crank shaft and said wheel shaft.

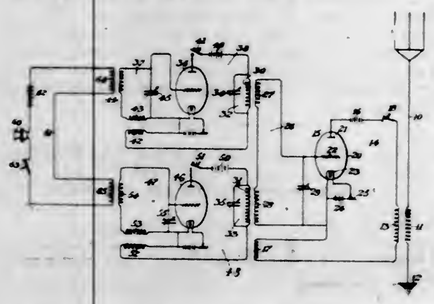
1,472,217. ANIMAL TRAP. ANTON GUFLER, New York, N. Y. Filed Feb. 28, 1921. Serial No. 448,470. 1 Claim. (Cl. 43—81.)



An animal trap comprising a base, a handle integral with the base, a square-shaped striker composed of a single piece of wire rotatably mounted on said base, a coiled spring surrounding a part of said striker and nor-

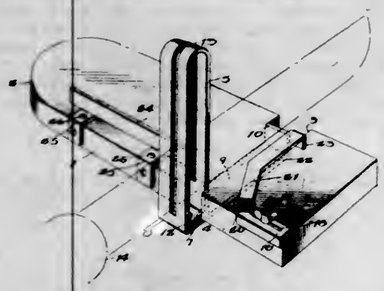
mally urging said striker to swing outward away from said base, a bait-carrying plate pivotally attached to said base near one end of said plate and having a tongue extending upward from said end, a bar pivoted on said handle and adapted to lie in substantially horizontal position with its free end engaging said tongue to lock said striker against said base, a lever pivoted to said base and adapted to rotate horizontally, an offset hook on one end of said lever adapted to swing over said frame to lock said frame against said base while said rod is being positioned, and a friction element on the underside of the other end of said lever for holding said lever in frictional contact with said base against accidental release of said lever.

1,472,218. TRANSMISSION AND RECEIVING SYSTEM. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Aug. 5, 1919. Serial No. 315,463. Renewed Jan. 25, 1923. 11 Claims. (Cl. 250—6.)



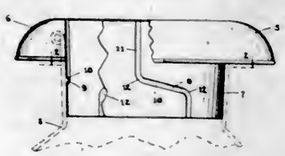
1. The combination with means for emitting a series of waves, of means including two separate thermionic oscillator circuits for impressing on said waves a plurality of series of periodic modifications of different frequencies respectively, and means for impressing upon said waves and modifications a series of irregular modifications corresponding to a message.

1,472,219. ARTICLE-SLICING DEVICE. OTTO N. HOFFMAN, Syracuse, N. Y. Filed Mar. 24, 1923. Serial No. 627,469. 1 Claim. (Cl. 148—150.)



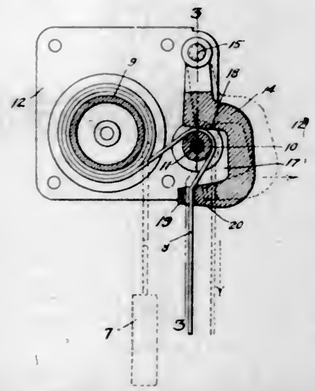
A device of the character described comprising an elongated flat base having notches in opposite longitudinal edges thereof at corresponding points along the length thereof, a guide frame extending upwardly from the notch in one longitudinal edge of the base and having an attaching portion extending transversely of the base in underlying relation thereto and engaging with the opposite notch in the other longitudinal edge of the base, said guide frame having a vertical slot therein extending from its upper end to the plane of the upper face of the base.

1,472,220. MILK-CAN COVER. CARL O. JOHNSON and AUGUST F. BERGHOLZ, Jefferson, Wis. Filed July 14, 1922. Serial No. 574,946. 3 Claims. (Cl. 31—77.)



1. A milk can cover, consisting of a top portion having a neck part depending therefrom and provided with a vent groove in its outer surface formed of two vertically extending offset sections joined together by a third section, said sections extending from the lower to the upper portion of said neck.

1,472,221. ATTACHMENT FOR WINDOW-SHADE ROLLERS. THOMAS X. JONES, Minneapolis, Minn. Filed May 26, 1922. Serial No. 563,823. 4 Claims. (Cl. 156—28.)

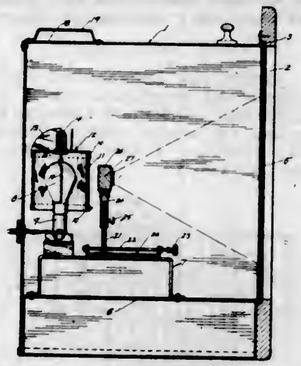


2. The combination with a shade roller and a shade mounted thereon and a cord wound on said roller at one end, of a pulley mounted adjacent said roller and having a face over which said cord is extended, a pivoted dog having a recess to receive said pulley, said dog normally contacting by gravity with said cord to press it upon said pulley, backward movement of said cord operating to wedge it more firmly between the surface of said dog and said pulley, said dog having a part that is engaged by the loose end of said cord after leaving said pulley, downward pull on said loose end disengaging said dog from said cord, the release of said loose end allowing said dog to return by gravity to its locking position and checking the unwinding of said curtain.

1,472,222. ADVERTISING DEVICE. WILFRED J. LE VIE, Los Angeles, Calif. Filed Aug. 5, 1920. Serial No. 401,511. 2 Claims. (Cl. 88—24.)

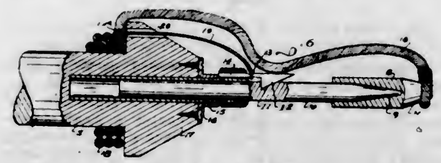
2. As an article of manufacture, an advertising device comprising, in combination, a box like chamber substantially closed on all sides and having a front window provided with a translucent screen member, an upright electric bulb arranged in the rear of the chamber, a sign medium consisting of a rotatable drum surrounding the bulb and provided with means whereby it

is rotated by the energy of heat when the bulb is energized, and means in the chamber carrying a lens disposed between the said medium and the screen and



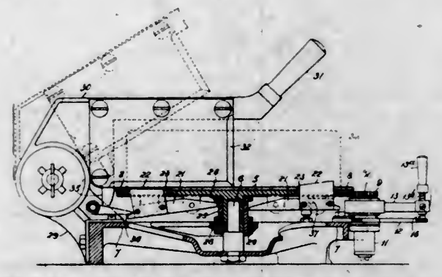
whereby said lens may be shifted to properly focus the image cast upon the screen, the sign medium being mounted upon and supported by the said electric bulb.

1,472,223. WHALE-HARPOONING APPARATUS. JOHN D. LOOP, Long Beach, Calif. Filed Feb. 16, 1920. Serial No. 358,851. 6 Claims. (Cl. 43—6.)



5. An aerial harpoon comprising a penetrating member, a second member connected thereto, a flexible member trained about the second member, and connected to the penetrating member, and means for securing the flexible member against unwinding from the second member until the penetrating member has struck a target.

1,472,224. MACHINE FOR CUTTING CHEESE AND OTHER SUBSTANCES. WILLIAM HENRY MELLOR and LEONARD MELLOR, Manchester, England. Filed Sept. 15, 1922. Serial No. 588,440. 10 Claims. (Cl. 31—68.)



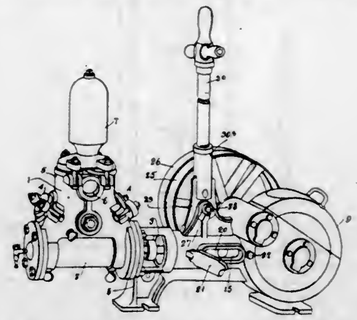
5. In a cutting machine, a frame, a table movable relatively to the frame and supporting the substance to be cut, anchoring devices carried by the table and shiftable into the substance, a cutting knife mounted on the frame and adapted to cut the substance after increments of relative movement between the frame and table, and means operatable concomitantly with the knife for retracting any of the anchoring devices within the path of the approaching knife.

1,472,225. RAILWAY-RAIL BRACE. JOHN G. MUELLER, Dayton, Ohio. Filed May 25, 1922. Serial No. 563,515. 10 Claims. (Cl. 238—53.)



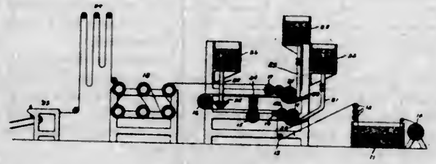
1. In a railway rail brace, the combination with outer braces adapted to fit against the rail ball and inner braces adapted to be urged against other portions of the rail, of a tie rod and nuts adapted to transfer a pressure to the braces, whereby they are made to position firmly against the rail surfaces.

1,472,226. POWER PUMP. GUY C. MYERS, Ashland, Ohio, assignor to The F. E. Myers & Brother Company, Ashland, Ohio, a Corporation of Ohio. Filed Dec. 19, 1921. Serial No. 523,480. 4 Claims. (Cl. 103—20.)



1. In a pump of the character described, the combination with a base, a pump at one end comprising a cylinder, a piston and a piston rod extending into the base, a gear casing at the other end adapted with the base to contain a lubricant, a driving pinion and a driven gear in said casing, a pitman operated by the driven gear, a cross head operable in the base and detachably connected to the pitman, and a handle adapted to operate the cross head and detachably mounted, whereby the cross head may be operated either by the pitman or by the handle.

1,472,227. METHOD OF AND APPARATUS FOR MAKING ORNAMENTAL ROOFING. FREDERICK C. OVERBURY, Hillsdale, N. J., assignor to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Original application filed July 24, 1920, Serial No. 398,681. Patent No. 1,418,456. Divided and this application filed May 19, 1922. Serial No. 562,197. 2 Claims. (Cl. 91—67.9.)

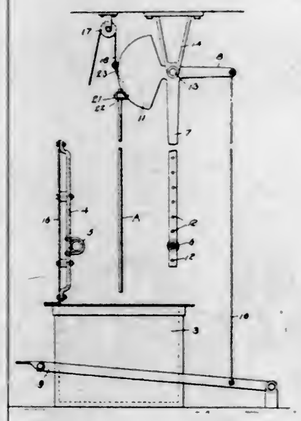


1. A method of making roofing material, which comprises coating a sheet of saturated felt with molten asphalt, scraping asphalt from parallel zones on the sheet to leave such zones uncoated, applying crushed mineral to the coated zones, and then applying a colored plastic water-repellent compound to said uncoated zones.

2. An apparatus for making roofing material, which comprises means for applying a coating of asphalt to

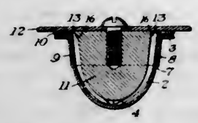
one face of a traveling sheet, a comb having teeth for removing the coating from spaced parallel zones on said sheet, means for delivering crushed mineral material to the coated zones, and means for applying a colored water-repellent plastic compound to the uncoated zones.

1,472,228. REMOVAL OF EXCESS COATING MATERIAL FROM COATED ARTICLES. CHARLES L. PEIRCE, Jr., Pittsburgh, Pa., assignor of one-half to Hubbard and Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 11, 1920. Serial No. 365,001. 6 Claims. (Cl. 91—59.1.)



1. The method of removing excess coating material from an article coated with liquid coating material, which consists in suspending the coated article, so that it is capable of swinging, in striking it a blow of such force that the suspended article is projected at a high velocity against a substantially rigid abutment.

1,472,229. CONFECTION MOLD. CHARLES A. PLEMPEL, Pittsburgh, Pa. Filed Mar. 6, 1922. Serial No. 541,528. 7 Claims. (Cl. 107—19.)



1. In a mold for confections, a receptacle having an offset portion, a ring telescopically engaging said offset portion and adapted to be withdrawn to remove a molded confection, and a core adapted to cooperate with said receptacle and ring, substantially as described.

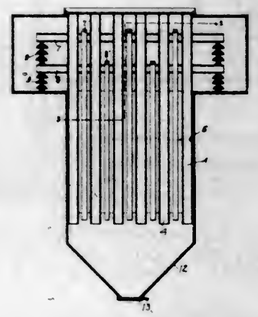
2. In a mold for confections, a receptacle having an offset portion, a ring telescopically engaging said offset portion, and a core adapted to cooperate with said receptacle and ring, said core having an operating means by which surplus material may be easily removed from the molded article, substantially as described.

1,472,230. PROCESS OF COATING WOVEN FABRICS. WILLIAM T. PLUM, Jr., Newark, N. J. Filed Mar. 1, 1921. Serial No. 448,924. 5 Claims. (Cl. 91—68.)

1. A new article of manufacture consisting of a paper-cloth stained or colored, the surface of which has been raised or roughened and having applied thereto a waterproofing material.

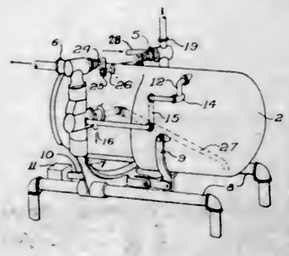
3. The herein described process of treating woven paper fabric or the like, consisting in first applying a dye to said fabric, then providing the same with a roughened surface and thereafter impregnating the roughened surface of said fabric with a waterproofing composition.

1,472,231. MEANS FOR SEPARATING SUSPENDED PARTICLES FROM GASES. WALTER A. SCHMIDT, Los Angeles, Calif., assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed Nov. 14, 1918. Serial No. 262,467. 10 Claims. (Cl. 183—7.)



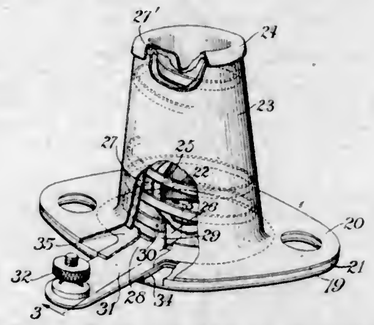
1. Apparatus for removing suspended particles from gases, comprising a treater chamber and means for conducting a stream of gases to be treated therethrough, two electrodes in the chamber, each having a small superficial area and constructed to produce a zone discharge to effect agglomeration of the suspended particles, said electrodes being connected to the opposite poles of a source of high tension current and means in the chamber operative to establish in the gas stream zones of relative quiet.

1,472,232. RETURN WATER TRAP. WERNER I. STAAF, Pittsburgh, Pa., assignor, by mesne assignments, of one-half to Lula Harrington Tyler, Pittsburgh, Pa. Filed Mar. 6, 1920. Serial No. 363,790. 5 Claims. (Cl. 137—103.)



1. A return trap, comprising a drum having hollow trunnions forming a tilting mounting therefor, a counterweight connected to said drum, a normally open inlet connection communicating with one of said trunnions, a normally closed outlet connection communicating with the other of said trunnions, a high pressure connection, rotary valves normally closing said last two connections, and means operative upon tilting movement of the drum for rotating said valves and opening said connections, substantially as described.

1,472,233. VAPORIZER FOR INTERNAL-COMBUSTION ENGINES. ASA J. TAYLOR, Jr., and CHARLES E. HARPER, Jr., Chicago, Ill., assignors of one-third to Bernard F. Cummings, Chicago, Ill. Filed Dec. 15, 1921. Serial No. 522,487. 5 Claims. (Cl. 219—38.)



1. In a device of the class described, the combination of a sectional pipe for the combustion gases, and a tubular element in said pipe having an integral base flange forming a gasket between the pipe sections, said tubular member comprising spaced inner and outer metallic walls having a heating element disposed between said walls.

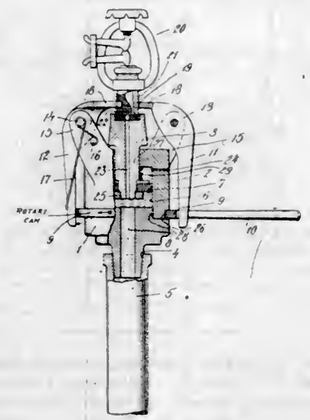
1,472,234. BUST DEVELOPER. JAMES FRED THOMAS, Clarinda, Iowa. Filed Oct. 10, 1921. Serial No. 506,803. 2 Claims. (Cl. 128—299.)



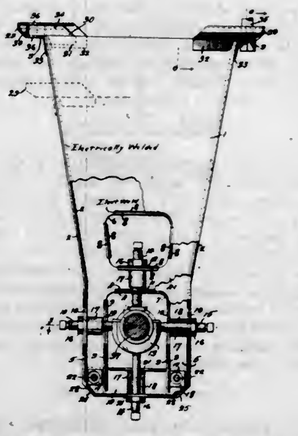
1. A breast developer comprising a cup to receive the breast, said cup having an outwardly extending neck, a tube passing through said neck and having a nipple-receiving cup within the other cup, a suction bulb having its end secured upon said tube, and a flexible air tight sleeve extending from said end of the bulb around the outer portion of said tube and secured around said neck, said sleeve having air tight engagement with both said bulb and said neck.

1,472,235. SPRINKLER-HEAD-TESTING DEVICE. ALBERT L. ABBOTT, Youngstown, Ohio, assignor to Ohio Automatic Sprinkler Company, Youngstown, Ohio, a Corporation of Ohio. Filed May 21, 1920. Serial No. 383,211. 7 Claims. (Cl. 73—51.)

1. In hydraulic testing devices for testing automatic sprinkler heads or the like, a casing formed with integral brackets and having a groove and a supply passage to supply hydraulic testing fluid to said casing, a series of gripping jaws having cooperating threaded inner ends pivoted to said brackets and having depending jaw arms said jaw arms to normally retract said jaws, a rotary cam mounted in said groove in said casing and cooperating with said jaw arms to positively force said jaws inward and downward to engage the threaded stem of a sprinkler head, a plunger vertically slidable in said casing and having a constricted fluid passage of less effective area than said supply passage and having a socket provided with yielding packing on the protruding end of said plunger adjacent said jaws to be forced against the connecting end of the automatic sprinkler engaged by said jaws when the hydraulic testing fluid is admitted to said casing, outside said casing, retracting springs cooperating with

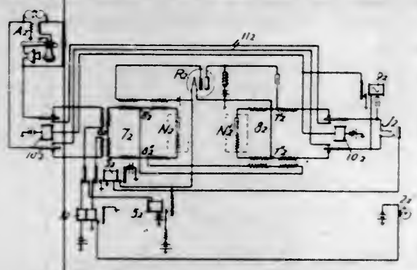


1,472,236. SHEET-METAL HANGER. EDWIN HUGH AHARA, Mishawaka, Ind., assignor to Dodge Manufacturing Company, Mishawaka, Ind., a Corporation of Indiana. Filed Feb. 5, 1920. Serial No. 356,439. Renewed Sept. 8, 1923. Serial No. 570,382. 8 Claims. (Cl. 64—14.)



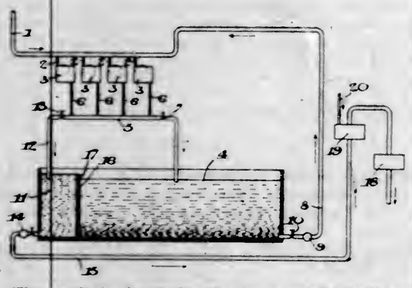
1. In sheet metal hangers, stamped-up duplicate halves provided with edgewise flanges, and means for holding them assembled with the flanges of one half overlapping those of the other half in alternative inside and external relation.

1,472,237. TELEPHONE TRANSMISSION SYSTEM. WILLIAM H. BENDERNAGEL, Queens, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 6, 1919. Serial No. 343,011. 12 Claims. (Cl. 179—170.)



1. In a telephone system, a subscriber's line terminating at a central switchboard, a link circuit, an amplifying repeater in said line, and means for causing ringing current to cut out said repeater and connect said link circuit directly to said subscriber's bell.

1,472,238. PROCESS OF TREATING PAPER PULP STOCK TO INSURE UNIFORM CONSISTENCY. GEORGE PHELPS BERKEY, Wisconsin Rapids, Wis. Filed May 8, 1922. Serial No. 559,294. 3 Claims. (Cl. 92—1.)



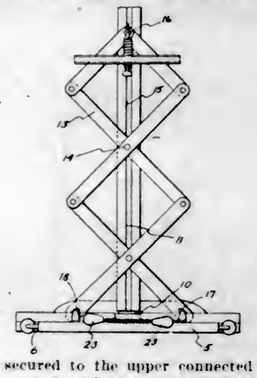
1. The method of withdrawing in a substantially uniform consistency the deckered slush pulp from large storage tanks in which it has settled so as to be of varying consistency, which consists in drawing the variable pulp from the tank as needed, adding water thereto and redeckering to a uniform consistency.

1,472,239. COATING COMPOSITION FOR METALS AND METHOD OF MAKING SAME. WILLIAM H. BUELL, Bronxville, N. Y., assignor, by mesne assignments, to Conversion Products Corporation, a Corporation of Delaware. Filed Apr. 12, 1920. Serial No. 373,348. 17 Claims. (Cl. 134—1.)

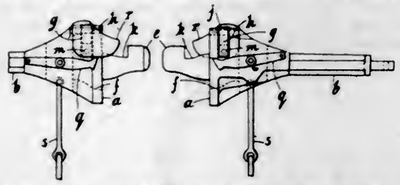
17. The process of manufacturing a coating composition, comprising dissolving and thoroughly mixing aluminum soap of cocoanut oil in paraffine oil, then adding melted paraffine and then adding petrolatum thereto, then adding an alkali to the solution obtained, and finally adding potassium chromate.

1,472,240. APPLIANCE FOR CLEANING WINDOWS FROM THE INSIDE. HIPPOLYTE M. CHIRON, New York, N. Y. Filed Apr. 11, 1922. Serial No. 551,587. 1 Claim. (Cl. 15—251.)

A window cleaner comprising a roller-supported platform, a beam hinged to said platform and having a slot extending lengthwise thereof and of T-shaped cross-section, said beam being adapted to fold transversely over said platform, a stanchion retaining said beam in upright position, lazy tongs guided in said T-shaped slot, an elongated frame secured to the upper connected ends of the tongs, a cleaner pad, and means detachably securing said cleaner pad in the frame.

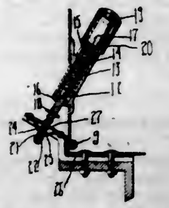


1,472,241. AUTOMATIC COUPLING FOR RAILWAY AND SIMILAR VEHICLES. GEORGE JAMES COLES, deceased, late of Gateshead, England, by Sarah Grace Coles, executrix, Gateshead, England. Filed May 7, 1923. Serial No. 637,395. 2 Claims. (Cl. 213—88.)



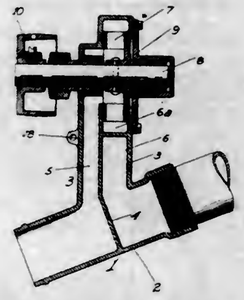
1. Automatic couplings for vehicles comprising a coupling head of substantially pyramidal form, a draw-bar integral therewith extending rearwardly from the smaller end of said head, a fixed longitudinally-extending projection on the buffing face of said head, a longitudinally-extending recess in said buffing face, said projection and recess being symmetrically disposed one on each side of the buffing face, a transverse latch pivoted in said head extending into said recess, a transverse notch in said projection, means for swinging said latch upwards, and resilient means for insuring the return of said latch to its initial position after it has been raised and the raising means released.

1,472,242. HOOD FASTENER. JOHN B. COVT, Far Rockaway, N. Y., assignor, by mesne assignments, to White Products Company, Chicago, Ill., a Corporation of Illinois. Filed May 24, 1920. Serial No. 383,752. 27 Claims. (Cl. 292—59.)



1. In a hood fastening device for motor vehicles and in combination with a hood door, a supporting bracket carried by said door and having an inclined tubular barrel the upper end of which lies outside the hood and the lower end of which extends through an opening in said door, and terminates inside the hood; a rotatable and reciprocating holding member located within said barrel and having a shoulder adjacent its upper end, and a series of oppositely located teeth or lugs at its lower end; a spring within said barrel and acting between an inwardly extending ledge at the lower end thereof and the shoulder aforesaid; a stationary abutment adjacent the lower end of the said door and having an opening through which the lower end of said holding member extends when the door is closed; and two catch members carried by said abutment and between which the inner end of said holding member lies when the door is in its closed condition and the free ends of which catch members engage the teeth or lugs aforesaid of said holding member.

1,472,243. WATER PUMP FOR MOTOR VEHICLES. JOHN L. DABADIE, Stockton, Calif., assignor to System Machine Works, Stockton, Calif. Filed July 23, 1921. Serial No. 487,019. 1 Claim. (Cl. 103—103.)

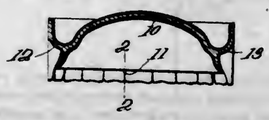


A water pump for motor vehicles including a one-piece body consisting of a straight pipe portion adapted to be interposed in the cooling-water line of the motor, a hollow extension projecting upwardly from the pipe portion intermediate its ends, and a transverse partition orificed adjacent its upper end and dividing said extension and pipe into two chambers, one of the walls of said extension having a bearing for a shaft in alinement with the partition orifice and the other wall having a similarly alined and removable cap clear of the pipe portion and of a size to permit of the insertion of a runner therethrough and into the adjacent chamber.

1,472,244. COATING. JOHN ANDREW DALY, New Rochelle, N. Y., assignor to Gold Sealed Denture Process Co., Inc., a Corporation of New York. Filed May 1, 1922. Serial No. 557,651. Renewed Jan. 22, 1923. 5 Claims. (Cl. 91—68.3.)

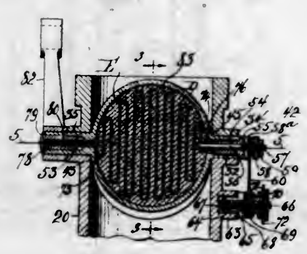
1. The process of coating a body of vulcanite with metal which comprises softening the surface of the body by chemical means and causing a precipitation of a metal upon and below the softened surface of the body.

1,472,245. ARTIFICIAL DENTURE AND PROCESS OF PRODUCING THE SAME. JOHN A. DALY, New Rochelle, N. Y., assignor to Gold Sealed Denture Process Co., Inc., a Corporation of New York. Filed Sept. 16, 1922. Serial No. 588,720. 4 Claims. (Cl. 32—4.)



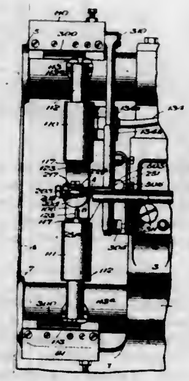
4. The process of producing an artificial denture comprising a body of vulcanite having artificial teeth embedded therein with interstices between them, which comprises softening the surface of said body including that in the smallest of said interstices, by chemical means, depositing a coating of metal upon the thus softened surface including that in said smallest interstices.

1,472,246. THROTTLE HEATER. PAUL DANIEL, Boundbrook, N. J. Filed Aug. 26, 1920. Serial No. 406,068. 11 Claims. (Cl. 219—38.)



1. In a heater of the character described, the combination of a casing, trunnions for the casing to adapt it to function as a throttle valve, a heat conducting and electric non-conducting material in the casing, a heating coil embedded in and firmly held in said material and means to conduct an electric current to the coil.

1,472,247. FASTENER-SETTING DEVICE. GEORGE W. JACQUES, Stratford, Conn., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 25, 1918. Serial No. 255,680. 30 Claims. (Cl. 218—15.2.)

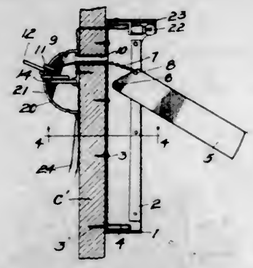


4. In a machine of the class described, a fixed support, a presser foot member pivoted to said support for movement with respect thereto, a work support integral with said presser foot member, a spring carried by said fixed support and engaging the presser foot member for opposing movement of the latter in one direction, and means for adjusting the tension of said spring.

1,472,248. AUTOMOBILE SIGNAL. JOSEPH MCCARTHY, Spokane, Wash. Filed May 17, 1921. Serial No. 470,357. 1 Claim. (Cl. 116—52.)

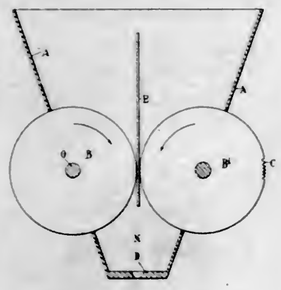
The combination with a laterally swinging gravity returned, signal arm, of a pivoted yoke shape lever and flexible connection between said lever and arm, an inte-

gral spring member fashioned in said lever and a friction arm under influence of said spring, a slotted housing



for the lever and a notched arcuate friction plate in said housing, said friction arm in continuous engagement with said plate and adapted to engage a selected notch therein.

1,472,249. EXTRUSION PRESS. WILLIAM EDWARD PRESCOTT, London, England, assignor to Messrs. John Baker, Sons & Perkins Limited, Willesden, England. Filed June 4, 1923. Serial No. 643,252. 3 Claims. (Cl. 25—11.)



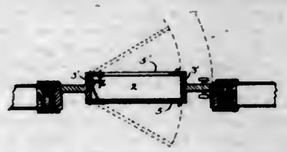
1. In an extrusion press, the combination with a receptacle provided with a discharge nozzle, of means for moving the material to be treated toward the said nozzle, and an oscillating plate extending into the said receptacle and cooperating with the said means.

1,472,250. BUCKLE. LUCA H. ROUNSEVILLE, Attleboro, Mass., assignor to C. A. Marsh & Company, a Firm composed of William E. Rounseville, and George L. Shepardson, both of Attleboro, Mass. Filed Feb. 9, 1923. Serial No. 618,140. 3 Claims. (Cl. 24—191.)



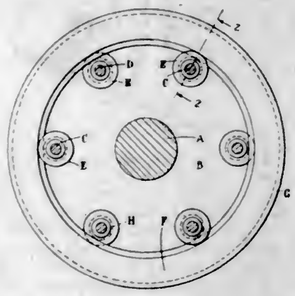
1. A buckle comprising a body portion, a clamping member formed of sheet stock having one edge rolled to form a pivot bearing by which it is pivoted in said body and the body of said clamp being shaped to form a plurality of spaced apart gripping edges for binding a belt in said body, and a ball rigidly secured to said clamping member.

1,472,251. VALET DOOR. GEORGE H. SIEDHOFF, Wichita, Kans. Filed Feb. 10, 1923. Serial No. 618,297. 4 Claims. (Cl. 232—1.)



1. In a valet door, a door proper, a set of jambs placed within the side and end rails of said door, doors hinged thereto to form an enclosure, said doors having spring hinges and lock for each thereof, means for closing one of said doors, by opening the opposite door thereto and the opposite door to be opened independently for the purpose set forth and described.

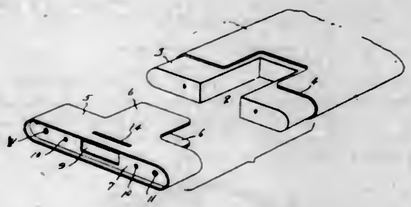
1,472,252. ENDLESS-WIRE-BELT CONVEYER. HAROLD SMITH, Mitcham, England, assignor to Messrs. Joseph Baker Sons & Perkins Limited, Willesden, Middlesex, England. Filed June 11, 1923. Serial No. 644,535. 3 Claims. (Cl. 198—190.)



1. In an endless wire belt conveyer an idler roller, comprising a plurality of wire carrying rings, and circularly arranged small steady wheels supporting the said rings, the steady wheels of adjacent rings being circumferentially staggered

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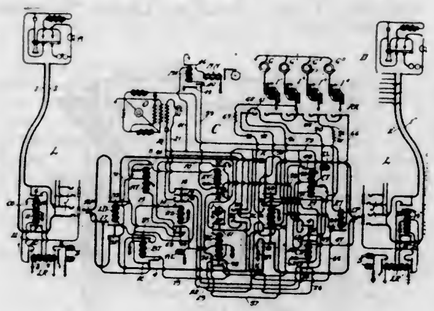
1,472,253. FABRIC BOLT BOARD. JOHN R. SMITH, Cleveland, Ohio. Filed July 28, 1922. Serial No. 578,123. 3 Claims. (Cl. 206—50.)



1. A fabric bolt board comprising a body portion having one end thereof reduced and provided with a recess, a head fitted to said reduced end and normally closing said recess, said head being provided with two apertures communicating with said recess, one of said apertures being of sufficient size to permit insertion of a sample

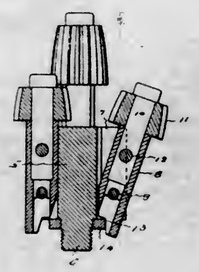
strip in said recess and the other of said apertures being in the form of a narrow slit to permit the end of said strip to be inserted therethrough, and means normally closing the larger of said apertures.

1,472,254. TELEPHONE SYSTEM. CHARLES SPARKS, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Original application filed May 15, 1916, Serial No. 97,512. Patent No. 1,440,113, dated Dec. 26, 1922. Divided and this application filed May 11, 1918. Serial No. 233,865. 14 Claims. (Cl. 179—35.)



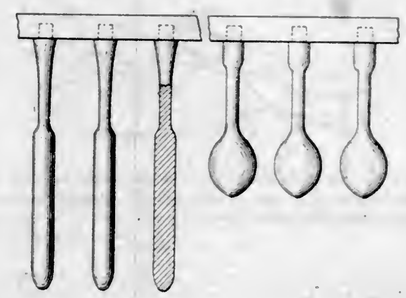
1. A telephone system including a called subscriber's line, a link circuit for connection to said line, a plurality of generator devices for signaling substations upon said line, a trip relay through which the currents from said generator devices are supplied to said called line, a shunt circuit for shunting a portion of the ringing currents from a part only of said generator devices around said relay, and means controlled by the response of the called subscriber for disassociating said line from said generator devices.

1,472,255. CUTTER HEAD FOR TUBE CLEANERS. HARRISON L. STALEY, Martinsville, Ind., assignor to The Roto Company, Hartford, Conn., a Corporation of Connecticut. Filed Jan. 2, 1923. Serial No. 610,112. 5 Claims. (Cl. 15—104.14.)



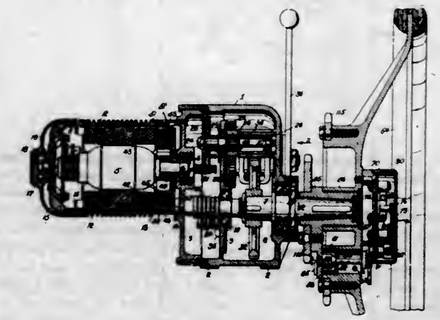
3. A tube cleaner cutter head comprising a body, arms pivoted to the body, cutter bolts extending into said arms and adapted to engage and hold the arm pivots in position, and pins extending through the arms and bolts for holding the latter in place.

1,472,256. MEANS FOR SHAPING RUBBER ARTICLES. GEORGE S. STRINGFIELD, Columbus, Ohio. Filed Sept. 29, 1921. Serial No. 504,058. 3 Claims. (Cl. 18—47.)



1. Means for shaping rubber articles having its shaping surface formed of pyroxylin plastic.

1,472,257. SERVO-MOTOR FOR AEROPLANES. MORRIS M. TITTERINGTON, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 9, 1917. Serial No. 201,057. 7 Claims. (Cl. 172—8.)



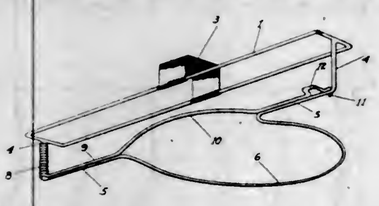
1. In an aircraft steering apparatus, a base, a servomotor mounted on said base, a shaft, a gearing connection between said motor and shaft, manually operated means for breaking said gearing connection, a steering wheel on said shaft and a motor-controlling switch operated by said wheel to render the motor effective to drive said shaft, said manually-operated means enabling said steering-wheel to drive said shaft independently of said gearing.

6. A controller handle for aeroplanes including an enclosed servo-motor, an electrically controlled brake within the motor frame having a part secured to the shaft of said motor and a part threaded in said casing and means for adjusting said last named part from without the motor frame.

1,472,258. AUTOMOBILE HATRACK. CHARLES W. WALTON, Fruitvale, Calif. Filed June 26, 1922. Serial No. 570,925. 3 Claims. (Cl. 45—13.)

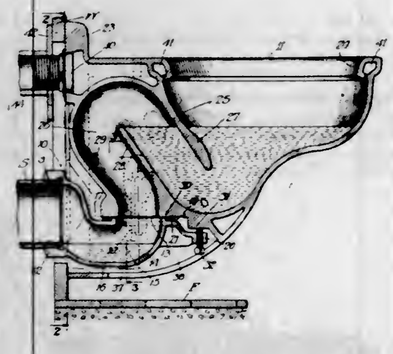
3. A hat holder for installation on automobiles comprising a horizontal frame adapted to be placed under and supported from a top-bow of the car, vertical wire arms depending from opposite ends of the frame, a horizontal and rigid open loop formed with and extending be-

tween the lower ends of the arms, a wire closure member for the loop-opening having a loop on one end em-



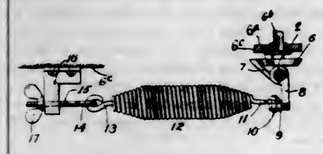
bracing one of the arms, and a catch formed integral with the other end of the closure member adapted to rest on and engage the other arm.

1,472,259. CLOSET. EARL G. WATROUS, Chicago, Ill. Filed Aug. 8, 1918. Serial No. 248,989. 6 Claims. (Cl. 4—69.)



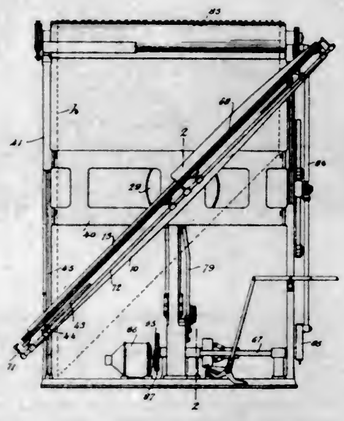
1. In a closet construction of the character described, wherein the closet is mounted against the wall and free from the floor, the combination of a rigidly supported horizontally extending soil pipe element, having a flanged horizontal front orifice, a bowl unit having a vertical base for wall contact, and a horizontally extending supporting surface to receive support from a pipe flange, means for securing said bowl unit to said pipe flange, and an adjusting screw carried by said pipe unit in front of its said orifice bearing against the bowl unit to adjust the level of the latter.

1,472,260. SHUTTLE-THROWING DEVICE. JOHN D. WATSON, Appleton, Wis. Filed May 28, 1921. Serial No. 473,536. 1 Claim. (Cl. 139—142.)



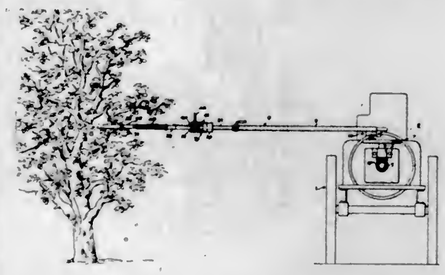
A structure for controlling rotation of a rocker shaft, said structure comprising a lever arm for fitting upon the shaft and extending transversely from the shaft and having swinging movement when the shaft is rotated, a lug pivotally connected with the free end portion of said arm and extending transversely therefrom for swinging movement in a plane parallel to the plane in which the arm swings and longitudinally thereof, a bracket adapted to be mounted in spaced relation to one side of said arm and beyond the free end of said lug, a coiled spring having an eye at one end, a pivot pin passing through said eye and through said lug to pivotally mount the spring at one side of said lug for swinging movement in a plane at right angles to the swinging movement of the arm and lug, an eye bolt loosely connected with the other end of said spring and extending through said bracket, and a securing nut upon said eye bolt engaging the bracket to retain the spring at a desired tension.

1,472,261. CUTTING DEVICE. JULIUS WEGNER and ALFRED E. WEGNER, New York, N. Y., assignors to Spadone Machine Co., New York, N. Y., a Copartnership consisting of Henry Spadone and Walter W. Spadone. Filed Dec. 24, 1921. Serial No. 524,804. 15 Claims. (Cl. 164—48.)



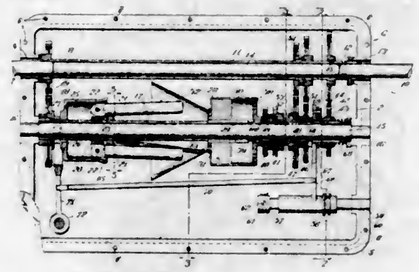
1. In a cutting machine, a support for the material to be cut, and cutting mechanism having an operative movement in an arc which passes through the plane in which said material is supported and including a plurality of cutting members cooperating to produce a continuous cut whereby the material is cut into predetermined sections.

1,472,262. FRUIT AND NUT HARVESTER. WILLIAM ABILDGAARD, Chico, Calif. Filed Oct. 29, 1921. Serial No. 511,336. 6 Claims. (Cl. 56—328.)



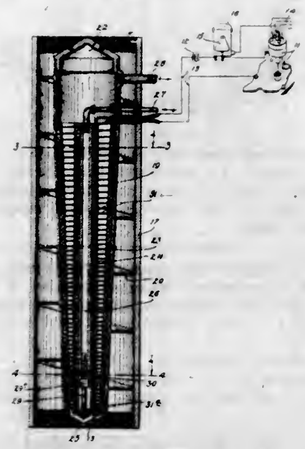
1. A harvesting machine embodying in its construction supporting means, a member adapted to be connected with a tree and means operatively associated with said member and supporting means for reciprocating said member and shaking the tree.

1,472,263. AUTOMATIC CHANGE GEAR. EDWIN J. APPLEBERG, Chicago, Ill. Filed Apr. 23, 1921. Serial No. 464,019. 10 Claims. (Cl. 74—97.)



1. In a change speed gear the combination of a driving shaft, an axially slidable clutch driven at a predetermined speed with respect to that of the driving shaft, a driven shaft, transmission gearing between said clutch and said driven shaft, a plurality of centrifugal members controlled by said clutch, and means on said clutch adapted to be engaged by said centrifugal members for effecting axial displacement in a predetermined direction.

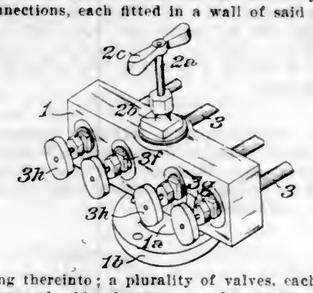
1,472,264. FUEL VAPORIZER FOR EXPLOSIVE ENGINES. MICHAEL BECK, Minneapolis, Minn. Filed Feb. 5, 1920. Serial No. 356,384. 15 Claims. (Cl. 123—133.)



2. A fuel vaporizer for explosive engines comprising a casing having an exhaust gas conduit and a vaporizing chamber, a fuel delivery pipe having a port opening into said vaporizing chamber, a valve normally closing said port, and a magnet operative when energized, to move said valve into a port opening position, in combination with the ignition system of the engine, the said magnet being connected in the circuits therewith so that said valve will be held in a port opening position when the ignition circuit is closed, said magnet comprising a helical plate forming a fuel conduit.

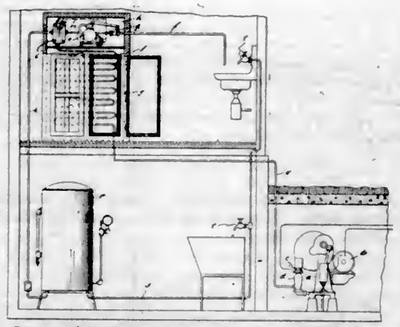
1,472,265. CAB TURRET. CHARLES M. BELL, Schenectady, N. Y. Filed Nov. 29, 1922. Serial No. 603,930. 4 Claims. (Cl. 277—50.)

1. In a locomotive cab turret, the combination of a chest or casing, adapted for connection to a boiler sheet; a plurality of integral valve seats and auxiliary delivery pipe connections, each fitted in a wall of said chest and



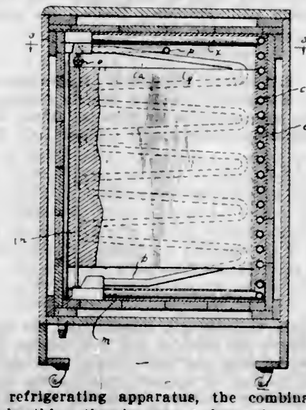
projecting thereinto; a plurality of valves, each fitted to seat on one of said valve faces; and means for manually actuating said valves.

1,472,266. REFRIGERATING APPARATUS. LLOYD G. COPEMAN, Flint, Mich., assignor to Edwin W. Atwood, Flint, Mich. Filed Jan. 28, 1921. Serial No. 440,637. 7 Claims. (Cl. 62—6.)



1. In a refrigerating apparatus, the combination of a refrigerating box, a water line passing through the box for refrigerating the same and continuing to form a service line, a waste line leading away from the water line after the same has passed through the refrigerator, and a thermostat and valve for controlling the waste line.

1,472,267. REFRIGERATING APPARATUS. LLOYD G. COPEMAN, Flint, Mich., assignor to Edwin W. Atwood, Flint, Mich. Filed July 27, 1921. Serial No. 487,897. 3 Claims. (Cl. 257—22.)



2. In refrigerating apparatus, the combination of a box, a sheathing therein spaced from the walls of the box to form a water film space, a plurality of coils in the

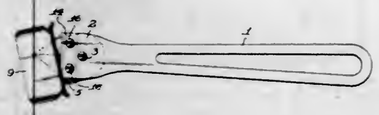
walls of said box for circulating water therethrough, a service connection with said coils for drawing water through the coils for service use, and a pipe provided with a valve for delivering water from the coils over the top of the sheathing to provide a film of water of controllable quantity.

1,472,268. COIN-HOLDING DEVICE. JAMES NOBLE EDELIN, Washington, D. C., assignor to Novelties Mfg.-Sales Corporation, Washington, D. C., a Corporation of Delaware. Filed Dec. 19, 1921. Serial No. 523,518. 4 Claims. (Cl. 133—6.)



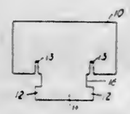
1. A coin holding device, comprising a substantially flat main body portion having a series of oppositely bent clips arranged along each longitudinal edge thereof, forming a pair of guide-ways adapted to receive successively positioned coins or tokens and means formed integrally with said body portion for normally maintaining said coins within each guide-way.

1,472,269. CARTON OPENER. WALTER G. GRIMMER, Detroit, Mich. Filed Oct. 3, 1921. Serial No. 504,986. 1 Claim. (Cl. 30—3.)



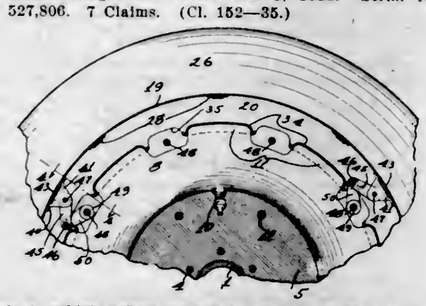
A carton opening device comprising an angle bracket having a long flange and a short flange, an angle guide having a flange thereof rigidly held by the short flange of said bracket, said angle guide having an opening adjacent the long flange, said bracket and its ends out-turned to facilitate movement of said guide, and a cutting instrumentality pivotally held by said bracket and having a flat detachable blade extending through the opening of said angle guide.

1,472,270. SHINGLE. NORMAN P. HARSHBERGER, Chicago, Ill., assignor to Tee-Lok Shingle Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 29, 1920. Serial No. 369,801. 11 Claims. (Cl. 108—8.)



6. A shingle, comprising a substantially flat body portion, a shank in the plane of said body portion and projecting outward from one edge thereof, said shank having locking tongues on opposite sides of the same and extending laterally outward therefrom, and said body portion having locking slots on opposite sides of said shank at the base thereof.

1,472,271. ARMORED PNEUMATIC DISK WHEEL. WILLIAM G. HAWKINS and VIVIAN C. BLOODGOOD, Harvey, Ill., assignors of one-third to Frederick P. Hawkins, Chicago, Ill. Filed Jan. 9, 1922. Serial No. 527,806. 7 Claims. (Cl. 152—35.)



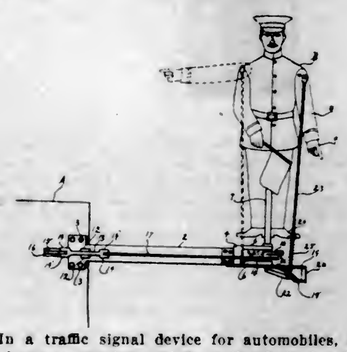
1. A vehicle wheel comprising a hub, a disk section supported thereon, an inner tire in said disk section, a felloe telescoped into said disk section and resting on said inner tire, an outer tire mounted on said felloe, and drive mechanisms pivoted on said felloe and connected to said disk section.

1,472,272. DENTAL CHAIR. GEORGE D. HECK, Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 7, 1921. Serial No. 435,763. 7 Claims. (Cl. 155—165.)



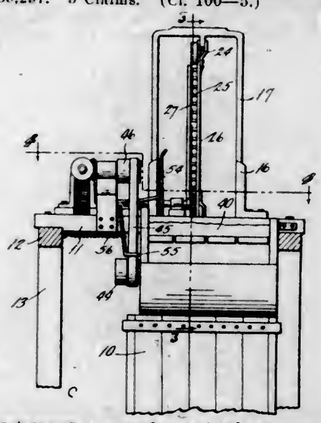
1. In a dental chair the combination with a foot-board having a frame, of a foot-rest having a frame pivoted to the frame of said foot-board, and yielding means tending to hold said foot-rest frame in inclined relation to said foot-board frame.

1,472,273. TRAFFIC-SIGNAL DEVICE FOR AUTOMOBILES. CHARLES H. HUGHES, Endicott, N. Y. Filed Sept. 2, 1921. Serial No. 497,915. 5 Claims. (Cl. 116—51.)



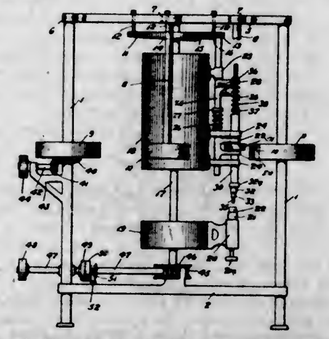
1. In a traffic signal device for automobiles, a longitudinal arm support mounted on the dash, in alinement therewith and extending beyond the car body, a vertical rod pivotally mounted in the outer end thereof, a metallic human figure vertically mounted on the rod, having one arm pivoted on the shoulder of the figure, a projecting curved guide mounted longitudinally on the outer end of the arm support, said guide having a divided upper surface, the guide projected into upper and lower guide surfaces, with vertical connection between their outer ends, and a spring opening in the upper surface, a forked lever pivoted longitudinally on said support and on the inner end thereof, a handle bar having pivotal connection with one fork of the lever and extending through opening in the dash, a crank removably mounted on the lower end of pivoted end rod, pivotal connection between the forked lever and said crank, a lever mounted on lower end of pivoted end rod, the opposite end of lever adapted to rest on the curved guide, a vertical rod pivotally connected with said lever and the arm of figure, a coil spring surrounding said rod, one end of the spring connected with the figure, and the other with said lever, a recess on the inner edge of the guide surface, means for a longitudinal movement of the turn crank rod, and for positioning the figure and arm, to denote direction.

1,472,274. TRAMPER FOR LINT COTTON. MONROE C. KIRKPATRICK, Files Valley, Tex., assignor of one-fourth to J. H. Williamson and one-fourth to Vane Wiseman, both of Hill County, Tex. Filed June 19, 1922. Serial No. 569,297. 3 Claims. (Cl. 100—5.)



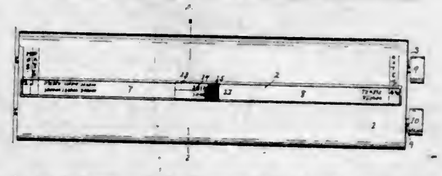
1. In a tramper, a press box, a head reciprocating into said box, a yoke mounted on said head, a laterally shifting gear rack having one end connected with the yoke and the other end connected with the head, and a continuously operating spur wheel engaging said rack.

1,472,275. AUTOMATIC BUTTON-BLANK-CUTTING MACHINE. WARREN E. KNOTT, Grand Rapids, Mich. Filed Mar. 25, 1919. Serial No. 285,076. 8 Claims. (Cl. 79—16.)



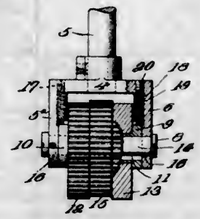
1. In a button blank sawing machine, the combination of a vertical support having projecting arms, an inner vertical rod slidably mounted in the said arms and spaced from the support and provided with outwardly projecting arms, a rotary sleeve journalled in the arms of the inner vertical rod and provided at the lower end with a tubular saw, an outer slidable rod extending through the sleeve and guided by an arm of the said inner rod, a spring disposed on the outer rod and interposed between the same and the said arm for urging the outer rod downwardly, yieldable means for urging the inner rod upwardly and an overhead cam engaging the inner rod and adapted to force the same and also the outer rod downwardly to cause the outer rod and the saw to progressively engage the material.

1,472,276. INTEREST CALCULATOR. ALBERT C. MEYER, San Diego, Calif. Filed Dec. 11, 1922. Serial No. 606,160. 7 Claims. (Cl. 235—86.)



1. An interest calculator comprising a case or support, a principal and interest table comprising associated groups of figures indicating principals upon which interest is to be calculated and corresponding sums of interest computed thereon at a given rate of interest, a movable slide movable across said table for indicating the interest of a given principal, said slide being of a width to expose simultaneously one principal and one interest sum of every group as it is moved from group to group thereof, and having an opaque portion adapted to stop off all figures in any principal except those of the principal upon which the interest is to be computed, and a decimal point on said slide adapted to positively point off the proper amount of interest in the exposed associated interest figures.

1,472,277. PRESSER ROLLER FOR PULLER MACHINES. JAMES R. MOFFATT, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 26, 1919. Serial No. 340,817. 6 Claims. (Cl. 112—214.)

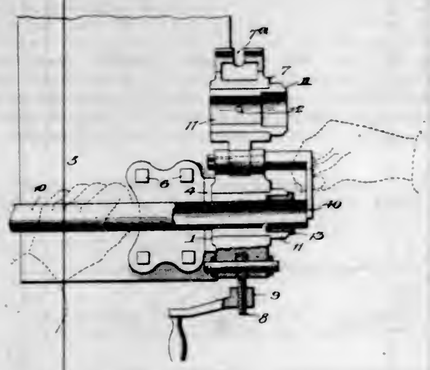


5. In a puller feed, the combination of a supported yoke, a shaft carried thereby, a roller section mounted on said shaft, a plurality of saddles mounted on said yoke provided with bored bearings adapted to carry roller sections thereon and the shaft therethrough, said bore permitting relative movement between said shaft and bearings and resilient means adapted to force said bearings out of co-axial alignment with said shaft.

1,472,278. MEANS FOR FLANGING SOFT-METAL PIPES. PHILIP MUELLER and ANTON C. SCHUERMANN, Decatur, Ill., assignors to Adolph Mueller, trustee, Decatur, Ill. Filed Nov. 12, 1919. Serial No. 337,499. 10 Claims. (Cl. 153—79.)

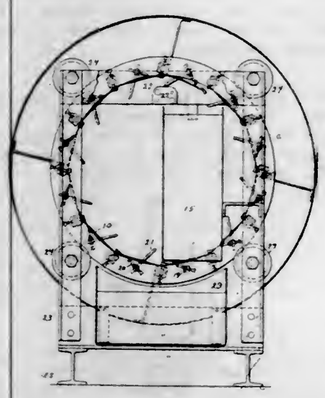
4. In a means for flanging soft metal pipes, the combination of a plurality of pipe engaging jaws hingedly

connected and adapted to be closed to form a pipe receiving bore, and a stop carried by said jaws, said stop



being freely movable transversely of the bore of the jaws when in closed position but secured against longitudinal movement relative to said bore.

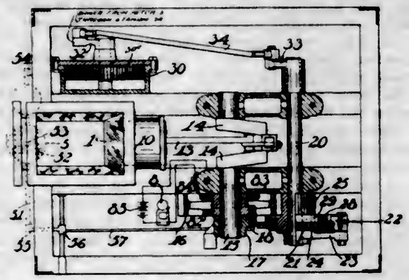
1,472,279. SORTING MACHINE. ELOF NORDSTROM, East Orange, N. J., assignor to American Dan Bottle Seal Corporation, Dover, Del., a Corporation of Delaware. Filed Apr. 24, 1922. Serial No. 556,146. 4 Claims. (Cl. 83—92.)



1. A sorting machine comprising a rotatable cylinder of overlapping plates, one edge of each of the plates capable of movement away from the stationary edge of the next plate and means for automatically tipping the plates in succession as they reach their upper position.

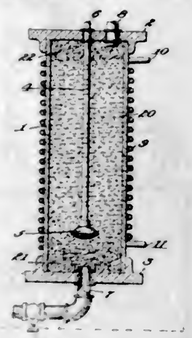
1,472,280. AUTOMATIC STOKER. ADOLPH OUSDAHL, Seattle, Wash. Filed Nov. 27, 1920. Serial No. 426,735. 3 Claims. (Cl. 110—109.)

3. In a stoker, in combination, a hopper having a slanting bottom, a motor positioned beneath said slanting bottom, a cylinder extending lengthwise of and below said hopper, and communicating therewith, a plunger, reciprocable in said cylinder, a crank shaft operatively connected to said plunger, an oscillatable countershaft extending parallel to said crank shaft and a crank arm thereon, ratchet driving means connecting said two



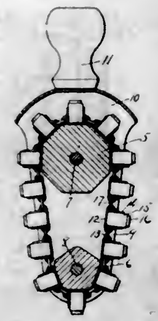
shafts, a crank arm rotatable from said motor and positioned at one side of said hopper, and a link connecting said two cranks.

1,472,281. METHOD OF AND APPARATUS FOR HYDROGENATING UNSATURATED COMPOUNDS. CARL M. PAGE, Chicago, Ill. Filed Feb. 24, 1921. Serial No. 447,578. 39 Claims. (Cl. 204—31.)



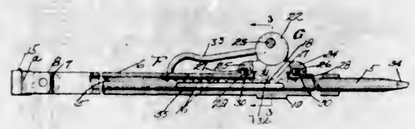
1. The method of hydrogenating oleaginous material which includes treating the same in the presence of a catalytic mass and hydrogen, and regenerating the mass by an electric current induced within the mass itself.

1,472,282. MARKING STAMP. FRANK E. SMITH, Hartford, Conn., assignor to Aetna Stamp Works, Inc., Hartford, Conn., a Corporation of Connecticut. Filed Aug. 15, 1921. Serial No. 493,016. 7 Claims. (Cl. 101—111.)



1. A stamping band base formed of rigid material with knuckles on opposite sides at the lower part thereof opening from a socket extending into the base to receive a block bearing a stamping character thereon.

1,472,283. OIL-WELL APPARATUS. HEWLET T. SMITH, Oxnard, Calif. Filed June 6, 1922. Serial No. 566,397. 8 Claims. (Cl. 255—35.)



1. In well apparatus, a floor circle brace, comprising two telescoping members, and locking means for maintaining the same in position of relative adjustment; said locking means comprising a cam member carried by one of the telescoping members and adapted for engagement with the other telescoping member, and a cam wheel for actuating said cam member.

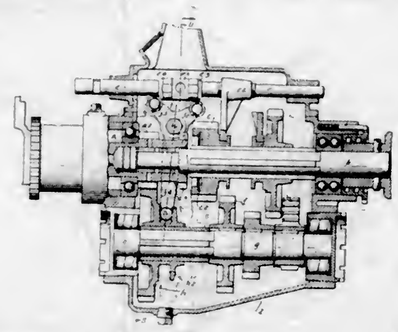
1,472,284. MEASURING DEVICE. MELVIN A. SWEET and MATTHEW D. FERNAN, Binghamton, N. Y. Filed May 3, 1922. Serial No. 558,318. 3 Claims. (Cl. 33—172.)



1. In a device of the character described the combination of a platform, a hollow standard, rising therefrom, and having an intermediate casing and integral therewith and projecting at its upper end into an arm overhanging said platform, a dial on the face of said casing having a graduated scale of feet and inch measurement on the border thereof; shafts mounted in said casing, a pulley mounted on one of said shafts and gears mounted on each of said shafts in alinement with the opening in said standard; a pointer shaft mounted in said casing passing thru said dial, a pointer mounted on said shaft, a cord passing through said shaft and casing and around said pulley having at its upper end a stop plate, contacting with the outer end of the said arm and on its lower end a weight.

1,472,285. TRANSMISSION GEARING FOR AUTOMOBILES. HORACE T. THOMAS, Lansing, Mich. Filed May 9, 1921. Serial No. 468,071. 3 Claims. (Cl. 74—55.)

1. In an apparatus of the kind described, the combination of a power shaft and a power receiving shaft and a secondary shaft, a clutch adapted to directly engage said power shaft and said power receiving shaft, a shifting rod adapted to actuate said clutch, a gear wheel on said power shaft, a gear wheel slidably keyed on said secondary shaft, a pivoted lever shiftably engaging the gear wheel on the secondary shaft, two arms extending from said lever with their ends adjacent to said shifting



rod and a cam piece on said shifting rod adapted to engage each of said arms and overrun the same substantially as and for the purpose described.

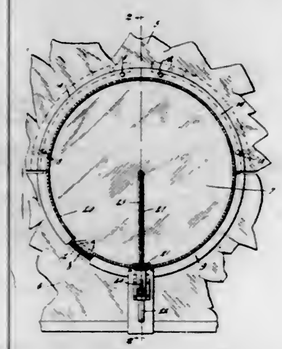
1,472,286. MOTOR-DRIVEN LADLE-TURNING MECHANISM. JOHN S. TOWNSEND, Harvey, Ill., assignor to Whiting Corporation, Harvey, Ill., a Corporation of Illinois. Filed June 13, 1921. Serial No. 477,051. 4 Claims. (Cl. 22—82.)

1. In mechanism of the class described, a suspending device for a ladle, the ladle tiltable on the suspending device, gearing mechanism for tilting the ladle with reference to the suspending mechanism, manually operatable mechanism for operating the tilting mechanism, motor driven mechanism for operating the tilting mechanism, and clutch devices selectively operatable to cause the motor or the manual mechanism, but never both at the same time, to operate the tilting mechanism.

1,472,287. STORM SHIELD. JOHN BAUER, Detroit, Mich. Filed Sept. 30, 1921. Serial No. 504,358. 1 Claim. (Cl. 15—250.)

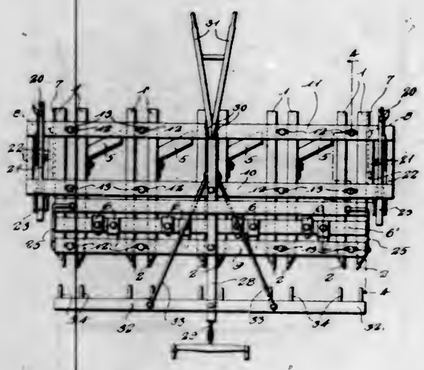
In combination with the adjacent sections of a windshield having semi-circular cut-out portions in the glass thereof, a circular retaining member fitted into the cut out portion of the glass and secured thereto, the inner wall of said retaining members being channelled to provide a race-way, a circular transparent disk provided with a band about its periphery and fitted between the race-way of the retaining member, and the band surrounding the transparent disk, a ring gear carried by

the band, a pinion in mesh with the ring gear for rotating the ring gear and transparent member supported thereby, and a stationary wiper at the lower portion of



the circular transparent member to remove foreign matter therefrom, and means for locking the pinion against movement.

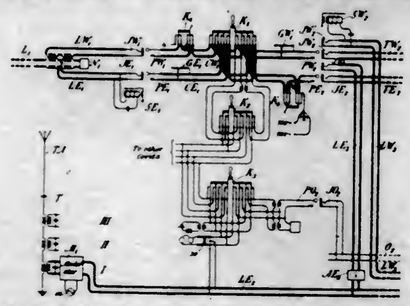
1,472,288. COTTON-THINNING MACHINE. RICHARD S. BONNER, La Grange, Ark. Filed Sept. 5, 1922. Serial No. 586,202. 8 Claims. (Cl. 97—23.)



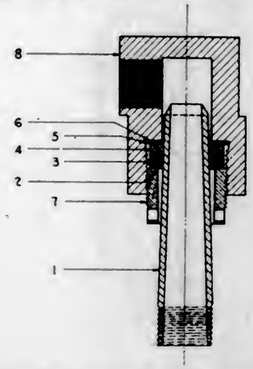
1. A plant thinning machine comprising a plurality of blade carrying sections, cross bars above said sections, hanger brackets connected with the cross bars for adjustment longitudinally thereof, the brackets straddling space between the sections and each having one end portion adjustably connected with a section and its second end portion rigidly connected with a section, rudder strips carried by the sections for engaging the ground, and draft means in front of the forward end portions of said sections.

1,472,289. RADIO WIRE CONNECTING CIRCUITS. RALPH BOWN and EDWARD L. NELSON, East Orange, N. J., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 26, 1921. Serial No. 464,668. 12 Claims. (Cl. 250—6.)

1. In a signaling system a radio transmitter and radio receiver, connections extending from said radio transmitter and said radio receiver to a common point, a hybrid coil and a balancing means for associating said connections with a two-wire terminal, a plurality of wire communication channels and a link circuit independent of said hybrid coil for associating said radio transmitter and receiver with any one of said wire communication channels.



1,472,290. AIRTIGHT PIPE COUPLING. JOSEPH RODNEY BROWN, Fresnillo, Mexico. Filed Sept. 25, 1922. Serial No. 590,494. 1 Claim. (Cl. 285—163.)



A pipe coupling comprising a coupler having an opening therein and a threaded enlarged opening at one end provided with a shoulder; a series of rubber and steel washers in said enlarged opening; a tapered pipe in said openings of said coupler and adapted to engage said washers; and a gland cover threaded into the enlarged opening of said coupler and adapted to hold said washers in place for the purpose specified.

1,472,291. BLOWPIPE FOR GLASS-MAKING APPARATUS. JOHN CARMANY CAMPBELL, Clarksburg, W. Va. Filed Mar. 8, 1920. Serial No. 364,139. 1 Claim. (Cl. 49—17.1.)

A device of the character described comprising a hollow body open at its lower end, said body having oppositely disposed flat walls positioned close together and



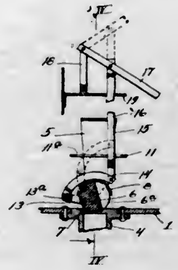
connected at their ends, an inwardly extending horizontally disposed flange at the lower end of the walls of said body terminating in an inwardly and upwardly extending lip, and an air pipe extending from the top portion of said body.

1,472,292. MIXER. JAMES O. H. CAZENOVE, New York, N. Y. Filed Feb. 27, 1922. Serial No. 539,592. 6 Claims. (Cl. 259—127.)



1. In a mixer having rotatable mixing means, manually-operated means adapted to rotate said mixing means in either direction at the option of the operator of said mannally-operated means.

1,472,293. OUTLET VALVE FOR TANK CARS. EARL L. CHATFIELD, West Tulsa, Okla. Filed Feb. 14, 1921. Serial No. 444,973. 4 Claims. (Cl. 137—21.)

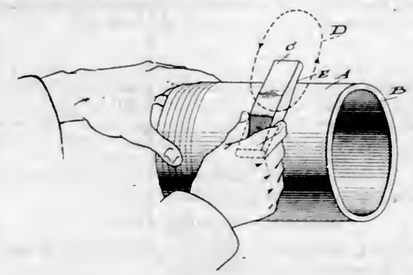


1. A tank having a discharge opening at its lower side provided with a valve seat, a valve cage associated with said opening, a cylindrical valve having but a short section of its circumference fitted on said valve seat, and yieldingly actuated means within said valve cage for applying downward pressure on said valve, and means for imparting oscillatory movement to the valve.

1,472,294. PROCESS OF PURIFYING CHLORINE AND OTHER CORROSIVE GASES. GEORGE O. CURME, Jr., and HAROLD E. THOMPSON, Clendenin, W. Va., assignors to Carbide & Carbon Chemicals Corp., a Corporation of New York. Filed Sept. 26, 1921. Serial No. 503,219. 3 Claims. (Cl. 23—10.)

1. Process of liquefying a corrosive constituent from a gas mixture containing also gases which are much more volatile than said corrosive constituent which comprises compressing the mixture to a pressure not substantially in excess of two atmospheres, cooling the compressed mixture in a low temperature zone sufficiently to liquefy a high percentage of the corrosive constituent, and returning the liquid so produced in rectifying contact with relatively warm gas passing to said low temperature zone to expel dissolved gases from the liquid.

1,472,295. METHOD OF TREATING PISTON AND CYLINDER SURFACES. GEORGE W. DONNELLY, Rouzerville, Pa. Filed Sept. 30, 1922. Serial No. 591,586. 1 Claim. (Cl. 29—90.)



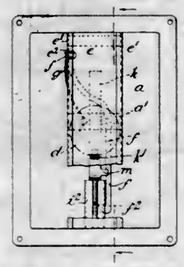
The method of finishing the coacting surfaces of the cylinders and pistons of engines, which consists in completely honing said coacting surfaces with a light pressure and a generally gyratory motion.

1,472,296. SHUTTLE-CHECK MEANS FOR LOOMS. HERBERT IRVING EMMONS, Lawrence, Mass. Filed Oct. 31, 1922. Serial No. 598,236. 1 Claim. (Cl. 139—186.)



In a loom, including its shuttle, the combination therewith of a cushioning binder, comprising essentially a relatively soft and pliable material consisting of sponge-rubber, a lay, a shuttle-box, picking mechanism, an impact strap connected at one end of said shuttle-box or lay, passing over a movable part of the binder, crossing the path of the picker or picker-stick, and connected to said shuttle-box or lay, at its other end.

1,472,297. LOCK AND INDICATOR FOR HOLDING AND LOCATING KEYS, TOOLS, AND OTHER PORTABLE ARTICLES. EDWARD ALARIC FALCONER, London, England. Filed Nov. 14, 1918. Serial No. 262,592. 2 Claims (Cl. 144—4.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A lock and indicator for holding and locating keys, tools and other portable articles comprising a casing capable of being fixed to a wall or support and having a key receiving slot in one end, a key arranged to enter the casing through said slot and carrying the article or articles to be located, a token likewise arranged to enter the casing and bearing an identification mark, number or the like, said casing being further provided with an aperture for permitting inspection of a token retained in the casing, and retaining means in the casing

co-operating with the key and token in such manner that the insertion of the token effects the release of the key and retention of the token which is exposed through the aperture in the casing while the insertion of the key effects the release of the token and retention of the key so that both cannot be removed at the same time.

1,472,298. DERIVATIVES OF SUPRARENIN AND PROCESS OF PREPARING THE SAME. CASIMIR FUNK and LOUIS FREEDMAN, New York, N. Y., assignors to Herman A. Metz, New York, N. Y. Filed Aug. 4, 1922. Serial No. 579,744. 6 Claims. (Cl. 260—128.5.)

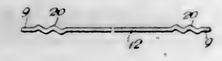
1. As new products, derivatives of orthodioxyphenylethanolalkylamin having the general formula:

$$(OH)_2C_6H_3—CH(OR)—CH_2NHX$$

in which R represents an alkyl or aryl group and X represents hydrogen or an alkyl group.

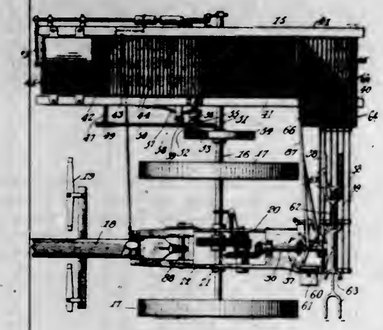
5. Process of preparing derivatives of suprarenin which comprises reacting upon a suprarenin compound with an alkyl compound in the presence of a dehydrating agent.

1,472,299. TIE WIRE WITH DEFORMED ENDS. ALEC J. GERRARD and PARVIN WRIGHT, Chicago, Ill. Original application filed Nov. 18, 1920, Serial No. 424,884. Divided and this application filed June 14, 1922. Serial No. 568,303. 13 Claims. (Cl. 24—27.)



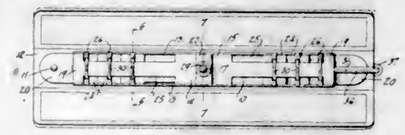
1. As a new article of manufacture a tie wire adapted for use in wire tying machines and provided with a deformed end having a plurality of bends of the same cross section as the main body portion of the wires, substantially as described.

1,472,300. POTATO DIGGER. JOSEPH ROMUALD JANNELLE, Three Rivers, Quebec, Canada. Filed Nov. 11, 1920. Serial No. 423,391. 1 Claim. (Cl. 55—56.)



A digger comprising a wheeled frame, a rack supported transversely at the rear end of the frame, a conveyor extending longitudinally of the frame and having one end disposed adjacent one end of the rack, a shovel supported by the frame in proximity to the remaining end of the rack and adapted to discharge therein, a rotatable member cooperating with said rack and said last named end for moving the contents discharged from the shovel along the rack to the conveyor, a cage covering the meeting ends of the rack and conveyor, said cage including a back wall inclined to the direction of travel of both the rack and conveyor.

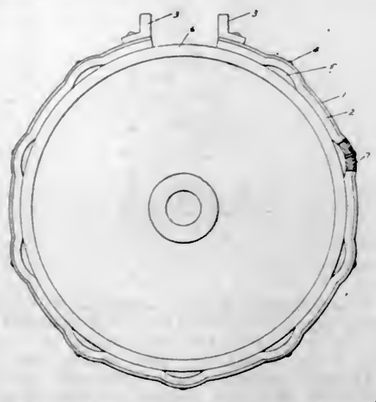
1,472,301. LOOSE-LEAF BINDER. AUGUST J. KOMPSELL, Mayville, Wis. Filed Nov. 18, 1922. Serial No. 601,753. 8 Claims. (Cl. 129—8.)



1. In a loose leaf binder, a base, a plurality of slides mounted upon the base for longitudinal movement, each slide carrying a ring, each slide having a shank, and means for engaging all of said shanks for holding the rings in adjusted position.

5. In a loose leaf binder, a base, a series of tubular split rings mounted on the base, a member disposed within each ring and movable circumferentially therein and when projected closing the gap in said ring and when retracted opening the gap in said ring, and common means for shifting all of said members simultaneously in one direction or the other including a longitudinally extending shaft having gear teeth cut therein and adapted to engage and mesh with the teeth on said members, said shaft at one end having a handle pivoted to the shaft for movement into axial alignment therewith to thereby permit the rotation of the same but adapted to be turned at right angles thereto and into locking engagement with the base to lock the shaft from rotation.

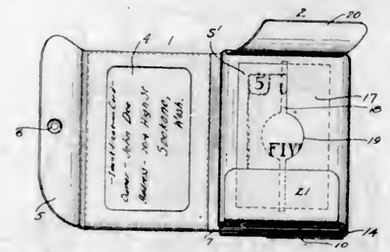
1,472,302. BRAKE. JAMES A. LA VIERS, Portland, Oreg. Filed May 31, 1921. Serial No. 473,849. 2 Claims. (Cl. 188—259.)



1. A brake band formed of a strip of spring metal, rectangular in transverse cross section at all points, said strip being bent at points throughout its length to provide outwardly bowed portions, a lining fitting against the inner face of said band, and fasteners passing through the lining and outwardly bowed portions of the band to draw the lining into the bowed portions of the band and provide spaces between the lining and a brake drum when the end portions of the band and lining are drawn towards each other with the portions of the lining between the spaces tightly engaging the drum.

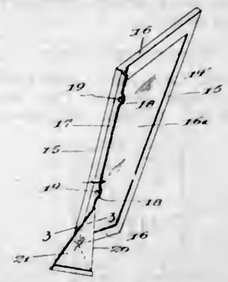
1,472,303. POCKETBOOK. ELLSWORTH MCGIBBON, Spokane, Wash. Filed Jan. 21, 1922. Serial No. 530,749. 2 Claims. (Cl. 150—38.)

1. The combination in a foldable pocket book comprising a card case having an end flap, an intermediate coin pocket, and an end bill-fold, an inner closure-flap on the bill-fold and fastening means for securing said end flap and inner closure-flap, fastening means on said inner



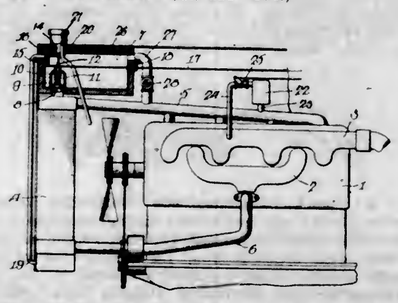
closure-flap and intermediate coin pocket, and fastening means between said bill-fold and an intermediate coin pocket.

1,472,304. AUTOMOBILE PANEL CONSTRUCTION. WILLIAM B. MICHEL, Plymouth, Ind. Filed Feb. 9, 1922. Serial No. 535,237. 2 Claims. (Cl. 296—84.)



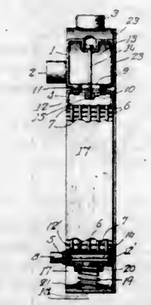
1. A storm shield for motor vehicles comprising a rigid glazed frame having a height to extend between the body and the top of the vehicle, a flange outstanding from the forward vertical edge of the frame, and means associated with said flange for attachment thereof to the end of the vehicle windshield frame, said flange having a bottom portion of increased width provided with a lateral and inwardly directed extension adapted to occupy a position in front of the lower corner of the windshield and the adjacent portion of the windshield frame.

1,472,305. AUXILIARY LIQUID-STORAGE RECEPTACLE FOR A CIRCULATING SYSTEM. ARTHUR B. MODINE, Racine, Wis. Filed Dec. 29, 1919. Serial No. 348,241. 12 Claims. (Cl. 123—174.)



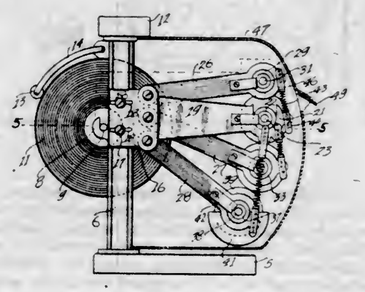
1. In a device of the kind described, a circulating system adapted to control the temperature of an internal combustion motor or other device, in combination with a receptacle positioned to drain into said system and adapted to contain all of the liquid normally in said system, a duct for draining said receptacle into said system, means for preventing the movement of liquid through said duct and means for moving the liquid from said system into said receptacle.

1,472,306. RADIATOR. ARTHUR B. MODINE, Racine, Wis. Filed May 10, 1920. Serial No. 380,214. 8 Claims. (Cl. 257—125.)



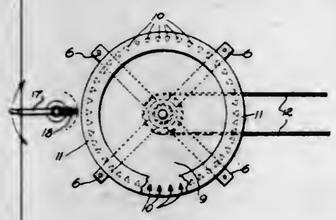
1. In a radiator, a plurality of tubes, tanks each extending the full width of the radiator front arranged at each end of said tubes and communicating therewith, a chambered part associated with and communicating with only one of said tanks, the other of said tanks having no similar chambered part associated therewith, said chambered part having an inlet, and means for detachably securing said chambered part and tanks together comprising bolts extending through said chambered part and engaging a portion of the top part of the tank associated therewith.

1,472,307. PRINTING DEVICE. PARLEY O. MOFFETT, San Francisco, Calif., assignor, by direct and mesne assignments, to The M. & M. Adograph Company, San Francisco, Calif., a Corporation of California. Filed Apr. 4, 1922. Serial No. 549,561. 3 Claims. (Cl. 101—226.)



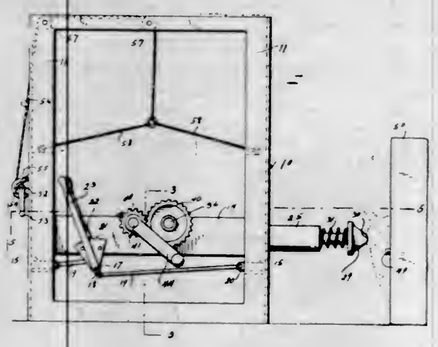
1. In a roll paper printing device, the combination with a roll of paper mounted between vertical supports, of adjustable brackets secured to said vertical supports, rigid arms projecting from said brackets, a printing roller adapted to be rotatably mounted in said arm, a plurality of arms pivoted to said bracket, rollers mounted between said pivoted arms of each bracket, and tension means for maintaining said rollers in contact with the next adjacent roller.

1,472,308. WOOL AND HAIR BURRING MACHINE. WALTER PERKS, St. Peters, near Sydney, and DAVID SMITH TURNER and JOHN WILLIAMSON, Marrickville, near Sydney, New South Wales, Australia, assignors to Williamson Deburring Co. Limited, Sydney, New South Wales, Australia, a Company of New South Wales, Australia. Filed Feb. 5, 1923. Serial No. 617,080. 3 Claims. (Cl. 149—24.)



1. In machines for removing burrs and the like from wool or hair on skins, a cylindrical member arranged to be rotated at high speed and having parting members spaced apart peripherally therein, said members having inwardly converging sides, and a burr remover, positioned adjacent the outer periphery of said member, to contact with and remove burrs and the like from the radially extended wool of a skin arranged within and carried by said cylindrical member.

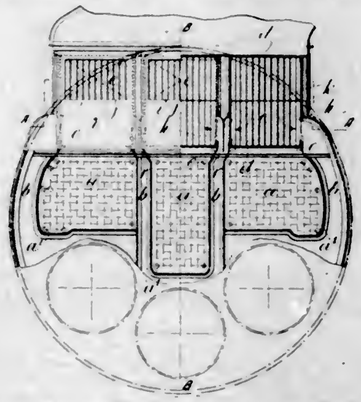
1,472,309. BUTCHERING IMPLEMENT. JOHN N. PRISK, Johnstown, Pa. Filed July 7, 1923. Serial No. 650,129. 3 Claims. (Cl. 17—1.)



1. In combination, vertical guides, a platform vertically adjustable upon said guides, means for holding the platform in adjusted position, a hammer horizontally mounted upon the platform, means constantly urging said hammer in one direction, means for withdrawing the hammer against the first named means and suddenly releasing the same, and means for holding an animal with head thereof in position for engagement by said hammer.

1,472,310. AIR HEATERS OF STEAM-BOILER FURNACES. JOHN REID, London, England. Filed Apr. 19, 1921. Serial No. 462,675. 6 Claims. (Cl. 110—56.)

1. An air heater of a steam boiler comprising a removable heater section constructed as an interchangeable standardized unit, means for loosely supporting said section in the flue space of the boiler, means for detachably



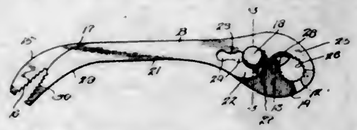
securing said section in position and ducts leading air to and from said section.

1,472,311. GAME. MARGARET ANNE SINCLAIR, Devonport, Auckland, New Zealand. Filed Sept. 27, 1919. Serial No. 326,704. 1 Claim. (Cl. 46—25.)



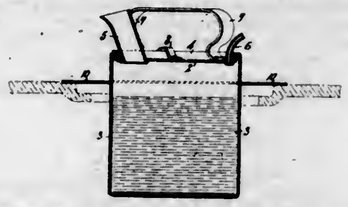
A deck of cards comprised of thirteen suits, a major card in each suit provided with the name of the suit in each left hand corner and center respectively and the numeral in each right hand corner, a plurality of minor cards in each suit and each minor card having the name of its suit in each left hand corner, a name in the center having reference to the name of the suit in which it belongs and a numeral greater than the numeral 1 in the right hand corner, the number of cards in each suit varying in number from three to five and making a total of fifty-three cards to be played as described.

1,472,312. COMBINATION WRENCH AND PLIERS. JOHN B. SINGER, Waynoka, Okla., assignor of one-half to Joseph W. Scott, Waynoka, Okla. Filed July 2, 1921. Serial No. 482,132. 2 Claims. (Cl. 7—4.)



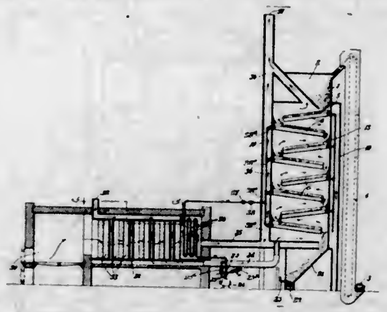
1. A wrench comprising two confronting members having pivotal and longitudinal sliding engagement with each other adjacent one end, this last named end being formed with opposed jaws, the remote end of each handle member being angularly extended in the same direction to form confronting alligator jaws, each jaw being thickened so as to overlie the other handle and the other jaw, the confronting faces of the jaws being toothed and having divergent relation to each other and each jaw being tapered toward its extremity.

1,472,313. KETTLE TOP. ARTHUR J. TURNER, Vancouver, British Columbia, Canada. Filed Sept. 5, 1922. Serial No. 586,275. 2 Claims. (Cl. 53—9.)



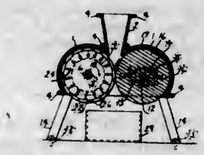
1. A kettle cover, comprising the combination with the removable cover of a container, of a pouring spout and handle secured to the cover, and means independent of the body of the container secured to the cover for supporting the same a short distance above the top plate of a stove while the container to which it is attached projects through an aperture therein.

1,472,314. PROCESS OF AND APPARATUS FOR DRYING AND TREATING MATERIALS. PAUL W. WEBSTER, Pelham Manor, N. Y., assignor to Perry & Webster Incorporated, New York, N. Y., a Corporation of New Jersey. Filed Apr. 27, 1918. Serial No. 231,082. 27 Claims. (Cl. 34—37.)



1. The process of treating materials which comprises placing them upon the uppermost support of a plurality of inclined perforated supports disposed one beneath the other, and passing currents of air intermittently through the perforations of such supports at pressures sufficient to lift the materials, whereby the materials will fall progressively to the lower support.

1,472,315. CUTTER FOR SLICED POTATOES. RUSSELL E. WELCH, San Jose, Calif. Filed Dec. 22, 1922. Serial No. 608,570. 6 Claims. (Cl. 146—78.)



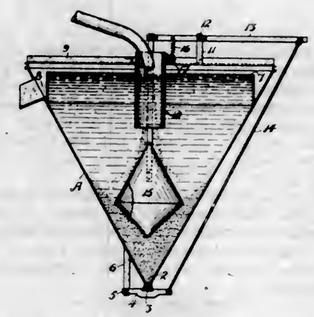
1. In a device of the character indicated, a drum, a plurality of laterally spaced knives concentrically arranged thereon, and a plurality of laterally spaced knives arranged to intersect said first mentioned knives with their cutting edges lying in the same cylindrical surface, a closure for the inner end of each pocket formed by said intersecting knives, and an ejector element resiliently mounted on each of said closures.

1,472,316. SOLUTION OF ALBUMIN CONTAINING MEDICINAL AND IMMUNIZING SUBSTANCES. JOHANNES KARL ZEISSLER, Altona, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed July 17, 1917. Serial No. 181,130. 3 Claims. (Cl. 167—7.)

1. The process of concentrating active constituents in solutions of albumin containing medicinal or immunizing substances, comprising adding to the solution of albumin successive portions of about .05 gram each of a metallic salt so that the precipitates formed are directly soluble in about 55 c. c. of water to yield solutions containing at least one per cent of albumin.

3. The herein described process which comprises adding to about 200 c. c. of diphtheria serum, 200 c. c. of a solution of zinc acetate containing about .08 gram of zinc acetate, adding about 1600 c. c. of water, separating the precipitate formed from the liquid, adding to the separated liquid about 70 c. c. of a solution of zinc acetate containing about .04 gram of zinc acetate, and separating the resulting precipitate, and then effecting further precipitations and separations of a similar nature by using in succession about 40 c. c. of a solution of zinc acetate containing about .04 gram of zinc acetate, about 20 c. c. of a solution of zinc acetate containing about .02 gram of zinc acetate, about 40 c. c. of a solution of zinc acetate containing about .04 gram of zinc acetate; about 40 c. c. of a solution of zinc acetate containing about .04 gram of zinc acetate, and about 40 c. c. of a solution of zinc acetate containing about .04 gram of zinc acetate.

1,472,317. SLIME-PULP THICKENER. CHARLES ALLEN, El Paso, Tex. Filed May 3, 1918. Serial No. 232,422. 5 Claims. (Cl. 83—82.)



1. A thickener for solids suspended in a liquid, comprising an inverted cone-shaped vessel having a rim overflow and a valve-controlled orifice for the discharge of accumulated material in the bottom thereof, a buoyant member within the vessel in the region where the thickened material accumulates operatively connected with the valve of the discharge orifice, said buoyant member being of a weight and shape to remain depressed and retain the valve closed until such time as the accumulated material in the bottom of the vessel reaches the desired density whereupon it will rise to open the valve and allow such material to be discharged.

1,472,318. CORNCOB CELLULOSE AND METHOD OF PREPARATION. FREDERICK C. ATKINSON, Indianapolis, Ind. Filed May 3, 1919. Serial No. 294,610. 5 Claims. (Cl. 92—9.)

1. The process of producing cellulose from corn-cobs which consist in breaking up the cobs, boiling in dilute mineral acids, then washing to remove a portion of the

acid and such soluble matter as can be removed with water, then boiling the residue in a dilute caustic solution, then removing the caustic, first by centrifugal force, then from the residual mass by mixing with hot water, again boiling to remove the caustic that is tenaciously held by the cellulose then repeating until the cellulose is substantially free, substantially as set forth.

1,472,319. PROCESS FOR PREPARING A FODDER FROM STRAW OR OTHER MATERIALS CHARACTERIZED BY THEIR CONTENTS OF RAW FIBERS. ERNST BECKMANN, Berlin-Dahlem, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Apr. 15, 1919. Serial No. 290,333. 4 Claims. (Cl. 99—11.)

4. The process for preparing fodder from straw and like materials which comprises cutting the material into small pieces, treating with calcium hydroxide at a temperature of about 20° C., removing the calcium salts by washing with water, and then disintegrating with an aqueous solution of sodium hydroxide.

1,472,320. PROCESS FOR PREPARING A FODDER FROM STRAW OR OTHER MATERIALS CHARACTERIZED BY THEIR CONTENTS OF RAW FIBER. ERNST BECKMANN, Berlin-Dahlem, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Apr. 15, 1919. Serial No. 290,334. 2 Claims. (Cl. 99—11.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

2. The process for preparing fiber from straw and other material characterized by a content of raw fiber which comprises cutting the material into small pieces and then treating with a mixture of calcium hydroxide and sodium sulphate, the action taking place at ordinary temperature.

1,472,321. PROCESS OF PREPARING A FODDER FROM STRAW OR OTHER MATERIALS CHARACTERIZED BY THEIR CONTENTS OF RAW FIBERS. ERNST BECKMANN, Berlin-Dahlem, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Apr. 15, 1919. Serial No. 290,335. 4 Claims. (Cl. 99—11.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

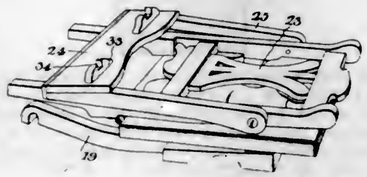
4. The process for preparing a fodder from straw and other material characterized by its content of raw fiber which comprises cutting the material into small pieces and then treating the material with an aqueous solution of an alkaline sulphide and calcium hydroxide at ordinary temperature.

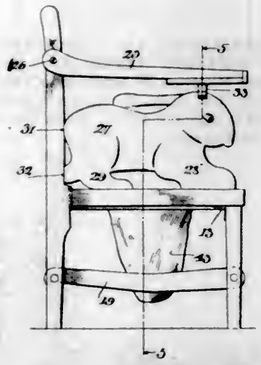
1,472,322. PROCESS FOR PREPARING A FODDER FROM STRAW—E. G., OF CORN OR LEGUMES. ERNST BECKMANN, Berlin-Dahlem, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed May 10, 1919. Serial No. 296,206. 4 Claims. (Cl. 99—11.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

4. The herein described process of preparing fodder from straw which consists in placing the straw in a subdivided state in a receptacle, pouring therein, covering the entire mass, a solution of soda lye containing 1% to 3% alkali, allowing the mixture to stand at ordinary temperature and pressure until the knots become soft, and finally washing.

1,472,323. NURSERY CHAIR. HELEN S. BURNS, East Dubuque, Ill. Filed Dec. 15, 1922. Serial No. 607,134. 2 Claims. (Cl. 155—31.)

1. A nursery chair comprising, a seat, front legs pivoted to the seat to swing longitudinally thereof and to fold upon its lower surface, a back including bars pivotally connected with the seat to swing longitudinally thereof, said bars extending below the seat in the form of rear legs, said bars being adapted to be folded upon the upper surface of the seat, detachable means connecting the front and rear legs, side elements extending longitudinally of the seat and pivotally connected therewith to fold inwardly upon the upper surface of the seat, the pivot points of the side elements being arranged at their inner edges whereby when the side elements are folded inwardly they will be disposed inwardly of the path of travel of the bars in their folding movement and between said bars, the side elements being adapted to have their lower edges contact with the sides of the bars in their folded position and to have their rear edges contact with the forward faces of the bars to brace them in their upright position, and a transverse member having detachable engagement with the side elements to hold them in their open position.



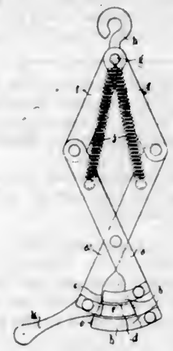


1,472,324. PROCESS FOR MAKING ESTER CONDENSATION PRODUCTS. RAY M. CARTER, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Apr. 5, 1921. Serial No. 458,851. 25 Claims. (Cl. 260—106.)

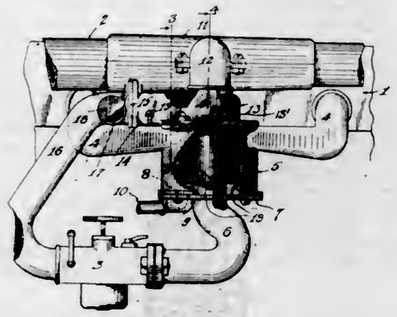
1. A process which comprises reacting upon an ester with a metal to form a compound of the metal therewith and an alcohol, and maintaining the reacting temperature near the boiling point.

1,472,325. SLING OR GRIP FOR SACK LIFTING AND OTHER PURPOSES. ARTHUR CLAYDEN, Richmond, England. Filed Oct. 25, 1920. Serial No. 419,438. 4 Claims. (Cl. 294—119.)

1. A toggle-joint-operated grip comprising in combination a lever system composed of main lever members intermediately connected crosswise at a common axis, a pivot pin forming the said common axis, pivot pins connecting the upper ends of said lever members with the lower ends of link members, a pivot pin forming a common axis to which the upper ends of the link members and the lower end of a suspension device are connected, a cavity jaw carried on the free end of one main lever and a jaw carried on the free end of the other lever adapted to interlock with the cavity jaw when gripping.



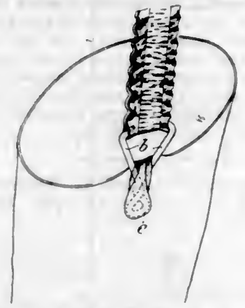
1,472,326. MANIFOLD AND PREHEATER. OLIVER H. CLOYD, Peoria, Ill., assignor to Chester E. Walker, Peoria, Ill. Filed Apr. 26, 1920. Serial No. 376,519. 4 Claims. (Cl. 123—122.)



2. The combination with an internal combustion engine, its carburetor, and its exhaust manifold, of a closed shell, conduits connected into opposite walls of the shell and with the combustion chamber of the engine for conveying vapor thereto, a tubular part enclosing part of the said exhaust manifold and terminating upon one of the other walls of said shell, a tubular part within the shell depending from the last named wall thereof, spaced from the first named walls and terminating in an open end remote from the conduits opening thereinto, and a conduit connected to the carburetor extending into the shell and into the said tubular part closely adjacent to the said last named wall.

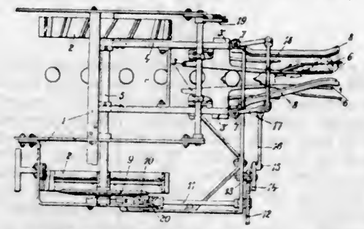
1,472,327. MEANS FOR ATTACHING STOCKINGS, SOCKS, OR THE LIKE TO SUSPENDERS. HUGO DAHMS, Berlin, Germany. Filed Apr. 16, 1923. Serial No. 632,471. 2 Claims. (Cl. 24—264.)

1. Means for attaching stockings, socks and the like to suspenders, comprising a triangular wire stirrup having the apex directed downwardly, and a smaller triangular wire member having its apex connected with the apex of the stirrup, the portion of the wire constituting the apices of the stirrup and triangular member being twisted together to prevent separation of the sides of the stirrup and triangular member, the stocking being adapted



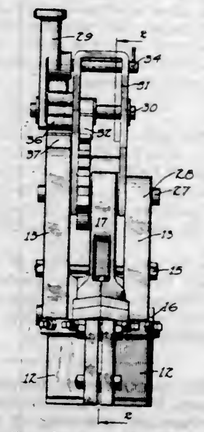
to be drawn through and compressed in the apex of the stirrup and to be laid over the base of the smaller triangular member.

1,472,328. TURNIP-GATHERING DEVICE. VÁCLAV OTAKAR DEYL, Vinor, Bohemia. Filed Aug. 22, 1921. Serial No. 494,133. 3 Claims. (Cl. 55—143.)



1. In a device of the kind described in combination, means for lifting a turnip from the ground and for guiding it towards the rear, a vertical shaft near said guiding means, means for rocking said shaft and an arm on said shaft extending substantially in parallel with said guiding means.

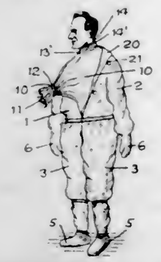
1,472,329. COMBINED ANGLE SHEAR AND NOTCHER. EDWARD J. DREIS, San Francisco, Calif. Filed May 23, 1922. Serial No. 563,070. 10 Claims. (Cl. 164—46.)



1. A device of the character described comprising a frame, a stationary die carried thereby, a head member pivoted in said frame and carrying a die for cooperation with said stationary die, a cam turnably mounted

in the frame and operatively engaging said head member for operating the same, a member adapted to be maintained fixed with relation to said cam whereby they will swing in unison, an operating lever pivoted to said member, engaging means formed between the end of said lever and said frame constituting a fulcrum point for said lever whereby swinging movement imparted to said lever will cause rotation of said cam through compound lever action, said rotation of the cam actuating the head member and thereby operating the dies.

1,472,330. WATERPROOF GARMENT. WALTER L. FRY, New Rochelle, N. Y. Filed Dec. 14, 1918. Serial No. 266,674. 6 Claims. (Cl. 9—20.)



1. A unitary waterproof garment comprising trunk, leg, arm, and shoulder-fitting portions, and a body-admitting portion attached to said trunk portion, said body-admitting portion comprising a hollow, tubular member attached to said trunk portion so as to normally extend substantially longitudinally of the garment, the inner surface of said body-admitting portion being substantially adhesive adjacent to the body-admitting opening of said portion, to thereby provide a substantially self-sealing closure when the garment is in position on the wearer.

1,472,331. PROCESS FOR THE TREATMENT OF ALBUMENOUS ANIMAL WASTE FOR THE PREPARATION OF HUMAN FOOD. PAUL HILDEBRANDT, Hamburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Dec. 26, 1917. Serial No. 208,864. 2 Claims. (Cl. 99—11.)

1. A process for the treatment of horn, hairs, skins, intestines and other albumenous animal waste for the preparation of human food products, consisting in treating the raw material with live steam, thereupon extracting it with solvents which dissolve free fatty acids, and finally hydrolyzing the mass.

1,472,332. PROCESS FOR THE PRODUCTION OF A PRESERVED MEAT-EXTRACTLIKE PREPARATION FROM FISH FLESH. PAUL HILDEBRANDT, Hamburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Dec. 26, 1917. Serial No. 208,866. 2 Claims. (Cl. 99—11.)

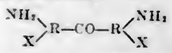
1. A process for the manufacture of a preserved meat-like preparation from fish-flesh, consisting in removing fat from fish-flesh and afterwards impregnating the mass with a mixture of amino-acids obtained from albumen by hydrolysis, substantially as described.

1,472,333. DISAZO COLORING MATTER. A. WILLARD JOYCE, Newark, N. J., assignor to The Chemical Foundation, Incorporated, New York, N. Y., a Corporation of Delaware. Filed May 9, 1922. Serial No. 559,602. 3 Claims. (Cl. 260—77.)

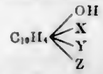
2. The new disazo coloring matters obtained by combining one molecule of diamino diphenyl ketone with two molecules of a naphthylamine derivative, said coloring matters in a dry state being reddish powders which dissolve readily in concentrated sulphuric acid and in water, precipitate from water solutions upon the addition of hydrochloric acid, and dye cotton, wool, silk and artificial silk red shades, fast to light, acids, alkalis and washing.

1,472,334. DISAZO DYES. ASA WILLARD JOYCE, Newark, N. J., assignor to The Chemical Foundation, Incorporated, New York, N. Y., a Corporation of Delaware. Filed June 15, 1922. Serial No. 568,634. 2 Claims. (Cl. 260—77.)

1. As a new article of manufacture the coloring matters obtained by coupling one molecule of a diamino diaryl ketone of the general formula

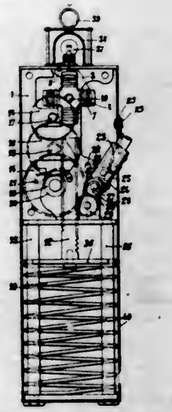


in which X may signify hydrogen and chlorine, and R may signify an aryl grouping, with two molecules of a naphthol derivative corresponding to the general formula



wherein X and Y may signify hydrogen and a sulphonic acid group and Z may signify hydrogen, an hydroxyl group and chlorine.

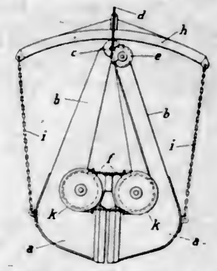
1,472,335. MAGNETO FLASH LIGHT. ANTOINE LUZY, Paris, France. Filed May 1, 1922. Serial No. 557,592. 5 Claims. (Cl. 240—8.5.)



1. In an electro-mechanical lamp, an electric incandescent lamp, a current generator of the magneto type with a fixed armature and a rotary inductor, a coil spring, a casing with a flat bottom enclosing the said spring, a plate capable of moving in a rectilinear manner in the said casing, peripheral notches in this plate, guide columns secured on the bottom of the casing and combining with the said notches, a rack secured at right angles on the said plate, a pinion gearing with this rack, a second pinion gearing with the first one, a ratchet lever pivoted on the axis of this latter pinion and passing through the casing, means for transmitting the movement from the said movable plate to the field magnet of the generator.

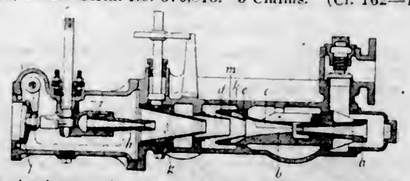
1,472,336. CLAMSHELL. JOSEPH MARTIN, Munich, Germany. Filed Aug. 29, 1921. Serial No. 496,739. 2 Claims. (Cl. 37—184.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In a clam shell in combination a pair of shells attached to long shell levers pivoted to one another at their extreme ends, a bridge piece above the shells and suspension members of invariable length between the ends of said bridge and the outermost points of the shells, said



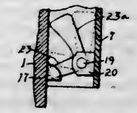
bridge being of greater length than the distance between the outermost points of the shells in the closed position of the latter.

1,472,337. INJECTOR. RICHARD DAVID METCALFE and JAMES CROXON METCALFE, Romiley, England. Filed July 22, 1922. Serial No. 576,813. 5 Claims. (Cl. 162—1.)



1. An improved exhaust steam injector comprising, in combination, a casing, a main exhaust steam nozzle, a water cone into which water issues with the exhaust steam from the main nozzle and around the delivery end of which a supplementary exhaust steam jet issues, a combining nozzle, a delivery nozzle, a preliminary mixing nozzle, secured in an extension of the combining nozzle, all of said nozzles and said cone being arranged in the casing, and said preliminary mixing nozzle being removable as a unit from the casing with said combining nozzle, and a closed compartment communicating with the gap between the said preliminary mixing nozzle and combining nozzle, said compartment being formed in the extension of the latter nozzle, a high degree of vacuum being created and maintained in said compartment by the jet travelling into the combining nozzle, as set forth.

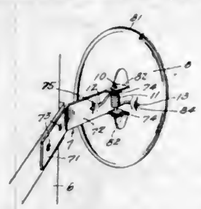
1,472,338. PUMP MECHANISM. PONTUS OSTENBERG, San Jose, Calif. Filed Oct. 12, 1920. Serial No. 416,428. 1 Claim. (Cl. 103—111.)



In combination, a pump head, a shaft revolubly mounted therein, a pulley on said shaft, a stop on said head, and a dog pivotally mounted on said pulley and carrying an inwardly extending arm normally positioned to engage said stop and a vertically extending arm movable outwardly about its pivotal point by the revolution of said pulley whereby to raise said first mentioned arm to an inoperative position.

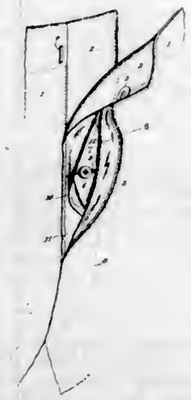
1,472,339. FURNITURE ATTACHMENT. DUDLEY OWINGS, Seattle, Wash. Filed Oct. 18, 1922. Serial No. 595,381. 3 Claims. (Cl. 45—137.)

3. An attachment of the character described, comprising a plate having a curved periphery and provided with a pair of apertured tongues protruding from the central portion of the plate, a bracket formed to provide two arms disposed in angular relations with respect to each other, one of said arms being provided with laterally directed apertured ear elements, a pin extending through said tongues and ears for pivotally connecting the plate to the bracket,



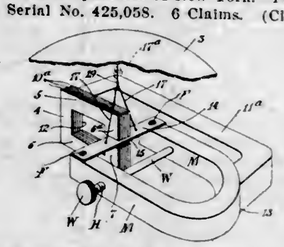
and a spring operatively connected to the plate and the bracket for yieldingly retaining the same in approximately rectangular relations with respect to each other.

1,472,340. GARMENT CLOSURE. JOHN JAMES PHELAN, Weehawken, N. J. Filed May 25, 1922, Serial No. 563,596. Renewed Sept. 25, 1923. 2 Claims. (Cl. 2—143.)



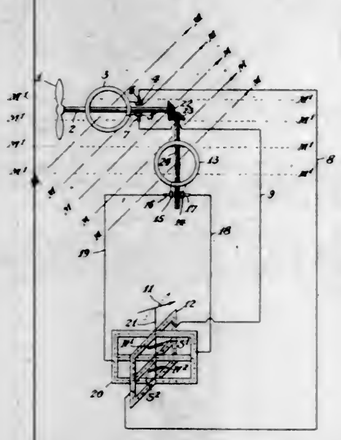
2. In a garment overlapping connected flaps, spaced buttons secured to one of the flaps, a button-hole strip having one edge secured to the inner face of the other flap, and a shield strip overlying the button-holes and secured to the free edge of the button-hole strip, the shield strip being stitched to the button-hole strip adjacent its free edge at points intermediate the button-holes.

1,472,341. REED TELEPHONE RECEIVING. GREENLEAF WHITTIER PICKARD, Newton Center, Mass., assignor to Wireless Specialty Apparatus Company, Boston, Mass., a Corporation of New York. Filed Nov. 19, 1920. Serial No. 425,058. 6 Claims. (Cl. 179—119.)



6. In a telephone receiver, the combination with a magnet system and a vibratable reed, of a diaphragm and means for coupling the diaphragm and reed; of means for adjusting the reed which comprises a U-shaped end of the magnetic circuit of the magnet system on the legs of which the reed is secured; and an adjusting screw engaging said legs.

1,472,342. ELECTROMAGNETIC COMPASS. GREENLEAF WHITTIER PICKARD, Newton Center, Mass., assignor to Wireless Specialty Apparatus Company, Boston, Mass., a Corporation of New York. Filed Mar. 18, 1922. Serial No. 544,803. 5 Claims. (Cl. 33—204.)



4. A magnetic compass comprising a pair of rotatable coils mounted with their axes of rotation at an angle to one another, a pair of loops electrically connected respectively to said coils and also mounted at an angle to one another; rectifying means connected between the respective coils and loops; and a magnetic indicating system arranged to be subjected to the action of said loops.

1,472,343. PROCESS FOR OBTAINING PURE NITRIC ACID FROM NITROUS GASES. WERNER SIEBERT, Laufenburg, Aargau, Switzerland, assignor to Nitrum Aktiengesellschaft, Zurich, Switzerland, a Corporation of Switzerland. Filed May 13, 1922. Serial No. 560,727. 3 Claims. (Cl. 23—1.)

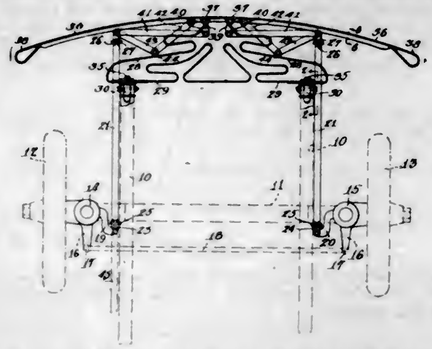
1. A process for obtaining pure nitric acid from nitrous gases containing impurities in form of a fine powder, in which the nitrous gases and the nitric acid are kept in all parts of the absorption system at a temperature about 0° C. so that solution of the impurities in the nitric acid is prevented, and in which the undissolved impurities are subsequently removed.

1,472,344. PROCESS FOR THE PREPARATION AND USE OF FOOD SUBSTANCES FOR VEGETABLES, MUSHROOMS, BACTERIAS, YEAST, MOLDS, MUCORS, AND THE LIKE. AUGUSTE VASSEUX, St.-Mandé, France. Filed July 14, 1920. Serial No. 396,279. 3 Claims. (Cl. 195—20.)

1. The process of producing alcohol and ferments which consists in carrying on the process of fermentation in a mixture containing humic substances adapted to promoting the growth of the ferment used, whereby the carbohydrates used are available in larger proportion for the production of alcohol.

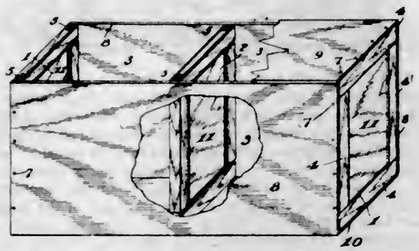
1,472,345. FLEXIBLE BUMPER MEANS FOR AUTOMOBILES. PHILIP A. WEIGEL, Riverton, N. J. Filed Jan. 6, 1922. Serial No. 527,334. 4 Claims. (Cl. 180—83.)

1. A bumper of the class described, comprising looped springs secured to the front portion of an automobile, transverse bumper arms hinged to the outer looped spring, centrally thereof, longitudinally extending rods adapted to be actuated by said bumper arms, levers connecting



said rods at their inner terminals with the knuckle joints on the front axle of said automobile and a rod connecting said knuckle joints, substantially as described.

1,472,346. BOX. GEORGE X. WENDLING, San Francisco, Calif. Filed Feb. 16, 1922. Serial No. 536,917. 1 Claim. (Cl. 217—17.)

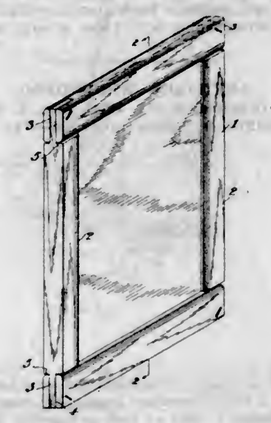


A compartment box, comprising side, top and bottom wall forming members, and compartment end members to which said wall forming members are united, each end member comprising a rigid rectangular frame formed with a continuous groove annularly of its inner periphery, the frame forming members of which are disposed with their grain extending at substantially right angles to the faces of the co-operating wall forming members, a single panel within each frame with its peripheral edges received within said annular groove for closing the same and disposed with its faces inwardly spaced from the outer faces of the frame, the inner peripheral edge of one face each of the frame forming members at one end of each compartment being cut to present a smooth surface to the contents of the compartment, the inner peripheral edges of opposite faces each of the frame forming members at the opposite end of each compartment being similarly cut to present a smooth surface to the contents of each compartment, means passing through the corners of the frame forming members for retaining said members together and the respective panels therein, and means passing through the wall forming members and into the frame forming members across the grain thereof for uniting said wall forming members to said frame forming members.

1,472,347. COMPARTMENT END CLOSURE FOR BOXES. GEORGE X. WENDLING, San Francisco, Calif. Filed Feb. 16, 1922. Serial No. 536,918. 1 Claim. (Cl. 217—17.)

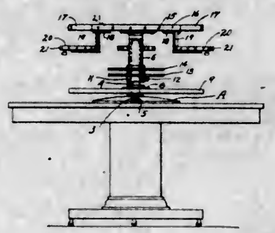
An end wall for a receptacle compartment comprising a rectangular frame consisting of side and end pieces having interlocking connection at their intersecting opposite

ends, the grain in each extending longitudinally thereof, the inner surface of each side and end piece of said frame being centrally channelled, a single panel within the frame for closing the opening therein, with its peripheral edges received within said channel and disposed with its opposite faces spaced inwardly from the opposite faces



of said frame, the outer opposite edges of the channels around each face of said panel being rounded to present a relatively smooth surface to the contents of a receptacle compartment, and means for permanently connecting co-operating side and end pieces to retain said panel within said frame with its edges received within said groove.

1,472,348. ROTATING SERVER. WALLACE R. WHITTEMORE, Binghamton, N. Y. Filed Mar. 15, 1922. Serial No. 543,932. 2 Claims. (Cl. 211—20.)



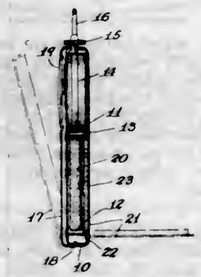
2. In a device of the class described, a portable base, a spindle vertically supported in the base, a sleeve closed at its upper end and rotatably mounted on the spindle, a shelf supported on the upper end of the sleeve and provided with recesses in the edge thereof, brackets depending from the under side of the shelf opposite said recesses and disk shaped shelves supported by said brackets beneath the recesses.

1,472,349. PIN EXTRACTING AND REPLACING TOOL. WILLIAM H. WINCHLER, St. Joseph, Mo. Filed Nov. 14, 1922. Serial No. 600,970. 1 Claim. (Cl. 81—3)



A device of the character described comprising a tube bifurcated at one end provided with a pair of grasping jaws and further provided with a slot at its upper end, a rod slidable in the tube, an elongated plate carried by one end of the rod and slidably engaging the jaws, a laterally extending pin carried at one end of the rod and passing through the slot, and a grasping element carried by the pin.

1,472,350. WATCH. LEO ALBANESE, Brooklyn, N. Y. Filed Aug. 22, 1922. Serial No. 583,482. 8 Claims. (Cl. 206—38.)



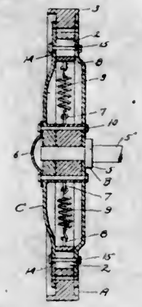
1. A watch of the class described, comprising an elongated watch case, means for supporting a watch movement in one end portion thereof, means for supporting a powder puff or the like in the other end portion thereof, said watch movement and powder puff being insertable into the watch case through opposite side faces thereof, and door members for controlling the insertion and removal of said watch movement and powder puff.

1,472,351. AUTOMATIC SWITCH FOR INTERCONNECTING LINES. FRITZ ALDENDORFF, Wilmersdorf, Berlin, Germany. Filed Nov. 28, 1913. Serial No. 803,566. 25 Claims. (Cl. 179—18.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In combination, two groups of lines, a switch for connecting a line in one of said groups with a predetermined line in the other group, means for moving said switch in a certain predetermined direction to connect certain ones of said predetermined lines, and means for moving said switch in another direction for connecting with certain other predetermined lines.

1,472,352. AUTOMOBILE WHEEL. HARRY M. BROWN, Union, N. Y. Filed Mar. 5, 1923. Serial No. 623,030. 1 Claim. (Cl. 152—52.)



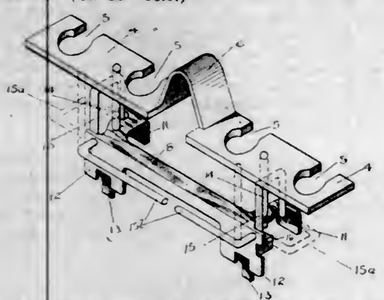
In an automobile wheel, a felly, having a laterally projecting rim; curved slotted openings in the felly; projecting lugs on the interior surface of the felly; a

hub centrally mounted within the felly; a plurality of coil springs connecting with the outer surface of the hub and the interior lugs of the felly; means for mounting an axle within the hub; parallel discs removably mounted on the hub on each side of the felly, having sliding contact with the side surface of felly; removable means adapted to be mounted thru the discs and felly and making a rigid connection between the hub and felly.

1,472,353. MANUFACTURE OF FORMALDEHYDE CONDENSATION PRODUCTS OF PHENOLS. JAMES GIBBON BYROM, Heaton Chapel, England, assignor to Richard Attwater, Lancaster, England. Filed Feb. 27, 1923. Serial No. 621,677. 2 Claims. (Cl. 260—4.)

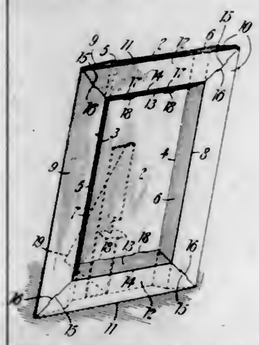
2. In the preparation of phenol formaldehyde condensation products the use of sodium thiosulphate (commercially known as sodium hyposulphite) as catalytic or condensing agent.

1,472,354. VALVE LIFTER FOR INTERNAL-COMBUSTION MOTORS. HARRY B. CARTLIDGE, Oregon City, Oreg. Filed Sept. 28, 1921. Serial No. 503,726. 4 Claims. (Cl. 29—86.3.)



1. In a valve lifter: a plate having notches therein adapted to embrace valve stems beneath the valve stem springs, and having a depressed central portion adapted to receive a stud; a plate substantially parallel to said notched plate; feet upon said latter plate adapted to contact with the bottom of the valve spring chamber; dowels secured to said notched plate and slidable within orifices in said parallel plate; and cams mounted upon said parallel plate and coacting with said notched plate.

1,472,355. COLLAPSIBLE DISPLAY DEVICE. ADOLPH DIETSCHE, Jr., New York, N. Y., assignor to American Lithographic Company, New York, N. Y., a Corporation of New York. Filed June 28, 1922. Serial No. 571,548. 4 Claims. (Cl. 40—126.)



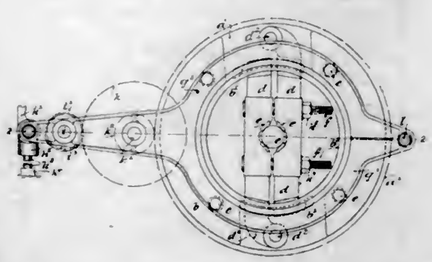
1. A collapsible display device of sheet material including in combination, a main member having articulated to two opposite edges thereof strip portions, respectively and to said strip portions opposite frame portions, respectively, said strip portions lying in angular relation to said main member and said frame portions, whereby said frame portions may be raised above the plane of the main member, and removably attached end members superimposed on the face of the said main member, said end members having strip portions and frame portions corresponding with those of said main member.

1,472,356. AUXILIARY WINDSHIELD. GEORGE W. DOVER, Cranston, R. I. Filed Aug. 2, 1921. Serial No. 489,157. 9 Claims. (Cl. 296—84.)



1. In an auxiliary windshield for vehicles, the combination of a shield member, supporting elements for the shield member, a pair of rods connecting the said elements upon opposite sides of the shield member, and means for supporting one of said rods from a portion of the vehicle.

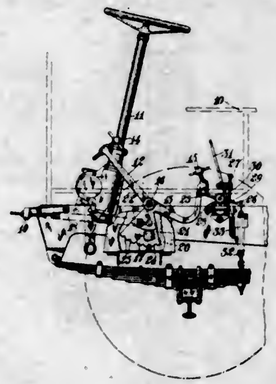
1,472,357. MULTIPLE PURCHASE JACK. JAMES DRONSFIELD, Oldham, England. Filed May 18, 1922. Serial No. 561,848. 5 Claims. (Cl. 81—56.)



1. A multiple purchase jack, comprising concentric castings, oppositely arranged lever elements, fulcrumed between said castings, said castings having means for guiding the lever elements in their movements, shaft-gripping jaws carried by said lever elements, means for adjusting the jaws toward and from each other thereby to accommodate shafts of varying diameters, an actuating handle, and gearing between said handle and castings for transmitting rotary motion of the handle to said jaws.

1,472,358. CONTROL GEAR FOR ELECTRIC DRIVING MECHANISM. CHARLES KEARNS EDWARDS, Chingford, London, England, assignor to The Associated Equipment Company Limited, Westminster, London, England, a British Company. Filed June 1, 1922. Serial No. 565,192. 14 Claims. (Cl. 74—81.)

1. In control gear for the driving mechanism of a motor-driven vehicle, the combination with a support, of a foot-lever fulcrumed thereon and having pedals, one at each side of its fulcrum, so arranged that the lever can be positively rocked in both directions about its

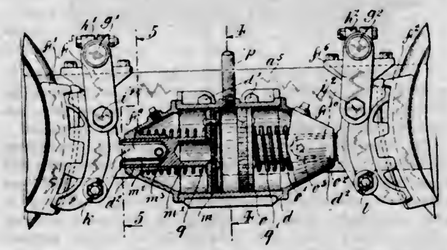


fulcrum through a neutral position into each of two end positions, and a spring tending to rock the said lever into one of its end positions.

1,472,359. MANUFACTURE OF DRY-BATTERY CANS. WILLIAM H. FINKELDEY and WILLIS MCG. PEIRCE, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 12, 1922. Serial No. 528,866. 9 Claims. (Cl. 204—29.)

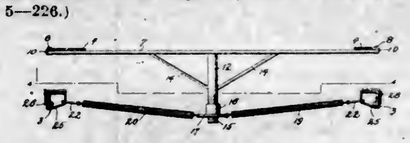
1. The improvement in the manufacture of dry battery cans made up of sheet or strip zinc and having a soldered seam which comprises forming the soldered seam of the zinc can at a temperature below that at which the zinc becomes annealed with consequent substantial decrease in tensile strength.

1,472,360. BRAKE RIGGING FOR RAIL CARS. MAXIMILIAN C. FRINS and CHARLES F. DRUMM, Jr., New York, N. Y., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 9, 1922. Serial No. 542,232. 1 Claim. (Cl. 188—153.)



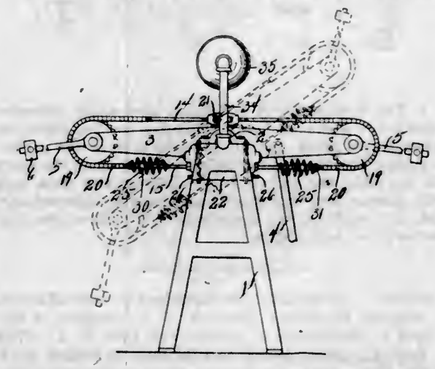
A brake rigging for a bogey truck, comprising a brake cylinder located between a pair of wheels on one side of the truck, opposite ends of the cylinder being provided with an elongated bearing extending inwardly of the cylinder for a substantial distance, a pair of piston rods slidable in the elongated bearings, respectively, the outer ends of the piston rods being hollowed out, an arm pivoted at the inner end of each hollowed out portion, a brake shoe directly connected with said arms, and links, pivoted to each brake shoe and to the frame of the truck, for supporting the brake shoes.

1,472,361. BEDSPRING SUPPORT. CLAYTON HOBERT, Philadelphia, Pa. Filed Mar. 1, 1922, Serial No. 540,090. Renewed Sept. 22, 1923. 4 Claims. (Cl. 5—226.)



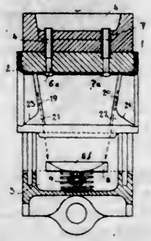
1. In a device of the character described, the combination with a side-bar bedstead and a bed bottom, of a bed bottom supporting device comprising a transverse element having a single depending portion, a nut threaded thereon, and springs connecting said nut and the side bars of the bedstead.

1,472,362. KINETIC POWER JACK. FRED. D. HOFFMAN and MENZO A. RUTENBER, Kansas City, Mo. Filed Mar. 11, 1922. Serial No. 543,097. 3 Claims. (Cl. 74—14.)



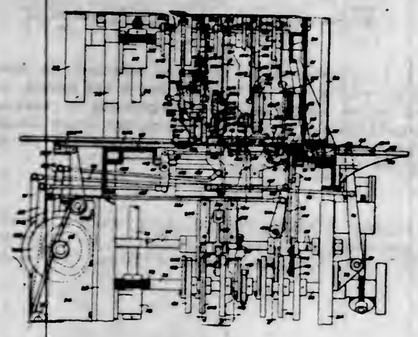
1. A kinetic power jack comprising a walking beam and means for oscillating the same, pendulums pivotally hung from the ends of said walking beam, and connecting rods and gearing operatively connecting said connecting rods to said pendulums to be actuated by said pendulums, one of said connecting rods serving as a piston rod.

1,472,363. LUBRICATING DEVICE FOR AXLE JOURNALS. WILHELM HOLTORP, Hamburg, Germany. Filed May 22, 1922. Serial No. 562,661. 4 Claims. (Cl. 64—33.)



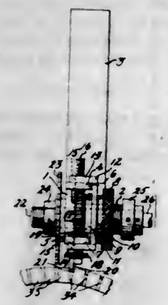
1. In a car journal bearing, a brass having one or more outwardly directed oil grooves in the contacting face thereof and having at the ends an enlarged V-shaped portion extending from the lower end of the brass to the groove, the outer edges of said portions extending obliquely upward toward the groove and toward the middle of the brass to remove excess oil from the revolving journal and prevent the oil from going to the ends of the brass.

1,472,364. CARTON FOLDING AND FILLING MACHINE. EUEL A. JONES, Covington, Ky., assignor to R. A. Jones and Company, Incorporated, Covington, Ky., a Corporation of Kentucky. Filed June 8, 1920. Serial No. 387,489. 15 Claims. (Cl. 93—6.)



1. The combination with a track over which collapsed cartons are advanced, a stop member projecting above the plane of the track to arrest the advance of the carton, a plunger movable transversely to the plane of the track for engaging the carton at an end opposite from said stop member and squaring or opening the collapsed carton, and confining the squared carton between the stop member and said plunger.

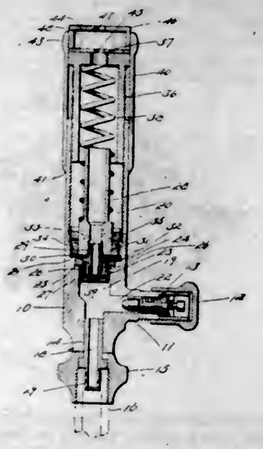
1,472,365. COMMUTATOR-DRESSING APPARATUS. WILLIAM H. JORDAN, Brooklyn, N. Y., assignor of one-half to Christopher C. Jordan, New York, N. Y. Filed Sept. 17, 1921. Serial No. 501,442. 6 Claims. (Cl. 90—12.)



1. A device of the character described, comprising a saw, means for driving the saw, cushioned means for regulating the depth of cut of the saw, and means for adjusting the regulating means.

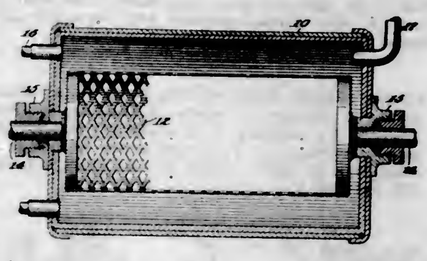
1,472,366. SIGNAL VALVE. FRANK N. KELSEY, New Haven, Conn., assignor, by mesne assignments, of one-half to Paul C. Swole, New Haven, Conn. Filed Oct. 31, 1921. Serial No. 511,821. 3 Claims. (Cl. 137—63.)

1. In a valve, a valve body, a cup, having one solid end and radial ports through a wall thereof, mounted in said valve body with its solid end in the direction of the intake of the valve, a valve movably mounted within said



valve body and having a seat within said cup, a flexible diaphragm surrounding said valve; and spring means for holding said valve on its seat.

1,472,367. METHOD OF AND APPARATUS FOR CASE HARDENING. WILLIAM WALLACE KEMP, Baltimore, Md., assignor of one-half to William H. Van Horn, Baltimore, Md. Filed Nov. 7, 1921. Serial No. 513,443. 15 Claims. (Cl. 148—19.)



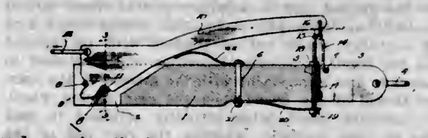
1. The method of case hardening, which consists in enclosing the articles in a container and heating them by combustion within the container in the presence of a carbonizing agent without igniting the carbonizing agent.

15. Apparatus for case hardening articles, comprising a stationary container adapted to receive the articles and a carbonizing agent and having bearings at each end thereof, a foraminous receptacle revolubly mounted in said bearings, a plurality of burners delivering self-sustaining flames about said foraminous receptacle without igniting said carbonizing agent, and a bleeder pipe delivering from said container.

1,472,368. DRAFT COUPLING. ALEXANDER M. McLAMB, Lumberton, N. C. Filed Apr. 18, 1922. Serial No. 554,899. 2 Claims. (Cl. 280—33.16.)

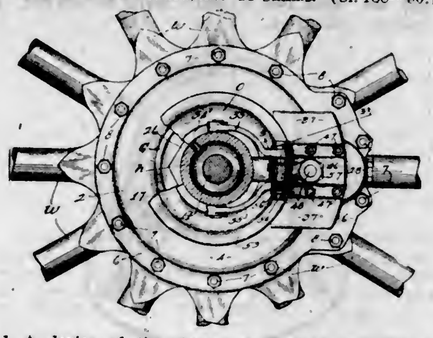
1. In a draft coupling, the combination of a draft bar, a draft lever extending longitudinally of and releasably engaged at one end with the draft bar, a latch freely suspended upon the opposite end of the draft lever, a keeper on the draft bar, a stop on the draft bar, the free

end of the latch normally bearing against the rear side of the stop, a finger projecting rearwardly from the latch



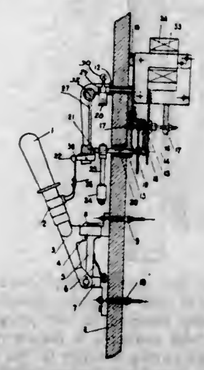
and engaging the keeper, and yieldable means upon the draft bar tending constantly to release the lever from the draft bar.

1,472,369. HYDRAULIC BRAKE MECHANISM. LUTHER L. MACK, South Pasadena, Calif. Filed Aug. 26, 1920. Serial No. 406,230. 18 Claims. (Cl. 188—90.)



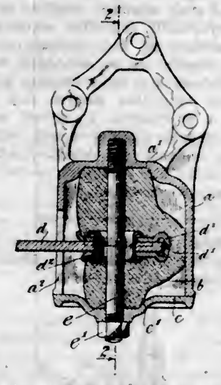
1. A device of the character described including a driven shaft, a wheel fixed to the outer end of said shaft, a cylinder rotatable with said wheel, an electric stator mounted within said cylinder, and having a hub portion extended therethrough, a space being formed between said cylinder and said stator, a yieldable abutment radially movable in said cylinder and having its inner face in permanent engagement with the periphery of said stator, a by-pass communicating with said cylinder space on opposite sides of said abutment, a valve in said by-pass and means for operating said valve for restricting the area of said by-pass during the rotation of said valve with said cylinder.

1,472,370. AUTOMATIC MAXIMUM AND MINIMUM CURRENT CIRCUIT BREAKER. VITTORIO MARTINETTO, Turin, Italy. Filed Mar. 13, 1922. Serial No. 543,418. 3 Claims. (Cl. 200—106.)



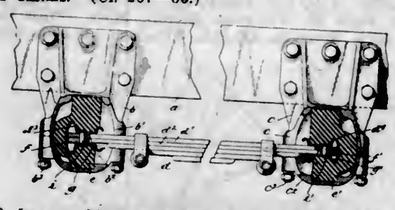
1. A maximum and minimum current automatic circuit breaker of the kind described, comprising a cut-out switch, an induction motor the windings whereof are directly connected in series with the main current, a lever handle, an arm carried thereon, a hooked pawl engaging said arm, a rotatable shaft in gearing connection with the said motor, a cam mounted on the said shaft, an oscillating arm carried by the same shaft and provided with a counterweight adjustable along the said oscillating arm, an oscillating stop pawl, a spring connected with one end of said stop pawl, a dashpot piston the stem of which cooperates with the other end of said stop pawl, the said counterweighted arm being able to dash against said stop pawl when oscillating.

1,472,371. CUSHION CONNECTION FOR VEHICLE CONSTRUCTION. ALFRED F. MASURY, New York, and AUGUST H. LEIPERT, College Point, N. Y., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 17, 1922. Serial No. 544,430. 4 Claims. (Cl. 267—30.)



1. A connection and support interposed between two metallic parts of a motor vehicle one of which parts is to be connected to and supported by the other of said parts, including a block of non-metallic yielding material by which one of said metallic parts is confined, means carried with the other of said metallic parts to support the block and a stud carried by one of said metallic parts and passing loosely through the other of said metal parts and through the non-metallic material to secure it against movement with respect to both of said metallic parts while affording freedom for relative movement between the metallic parts.

1,472,372. SPRING MOUNTING FOR CUSHION CONNECTIONS. ALFRED F. MASURY and AUGUST H. LEIPERT, New York, N. Y., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 25, 1922. Serial No. 596,737. 4 Claims. (Cl. 267—30.)



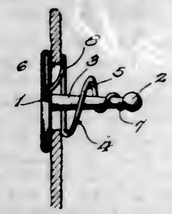
2. In a cushion connection of the character described in combination with a leaf spring on the end of which is confined under compression a non-metallic material, a leaf on which said material is seated, a proximate leaf shorter than said first named leaf and a spacer block secured to said first named leaf to afford a seat for the material on its remote face and relieve the second named leaf of the compression pressure imposed on said material.

1,472,373. CONCRETE CONSTRUCTION. RALPH A. MEGINITY, Kansas City, Mo. Filed Feb. 4, 1919. Serial No. 274,891. 3 Claims. (Cl. 72—103.)



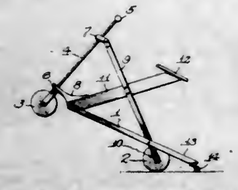
1. An anchor strip of the character described, consisting of a metal strip alternate sections of which form respectively longitudinally extending portions adapted to lie along the surface of the concrete structure and anchoring arms adapted to be embedded in a concrete structure, the anchoring arms extending laterally from the longitudinally extending portion and having portions extending in a direction transverse to the length of the arm to provide anchor parts, said anchoring arms serving to connect the longitudinally extending portions, which latter are otherwise separate from each other, substantially as described.

1,472,374. COLLAR BUTTON. WILLIAM B. MURPHY, Weehawken, N. J. Filed Aug. 23, 1922. Serial No. 583,834. 3 Claims. (Cl. 24—90.5.)



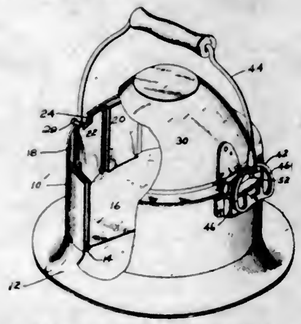
1. The combination with a button of the class described comprising a back, a head, and a connecting shank, of a retaining means comprising a volute member concentrically arranged about the shank of the button and having the end portion of its major coil offset in the direction of the head of the button and secured thereto at a point relatively adjacent the corresponding end of the shank, the minor coil of the said member meeting the shank in juxtaposition to the head of the button.

1,472,375. CHILD'S VEHICLE. ANDREW W. STUART and JOHN W. O'CONNOR, Detroit, Mich. Filed Oct. 27, 1919. Serial No. 333,635. 3 Claims. (Cl. 308—165.)



1. A child's vehicle comprising a frame, front and rear ground wheels for supporting said frame in normal running position, a load carrying member on the frame and positioned to support the load when said frame is in normal position, with the center of gravity of the load forwardly of and adjacent to the transverse vertical plane of the rear ground wheel, whereby a shifting of the load rearwardly will cause the frame to tilt rearwardly upon said rear wheel and raise the front wheel from the ground, and an auxiliary ground wheel carried by said frame rearwardly of the rear ground wheel with said auxiliary wheel out of contact with the ground when the frame is in normal position and positioned to be brought into engagement with the ground by the rearward tilting of the frame upon the rear ground wheel, said auxiliary wheel being pivotally attached to said frame to turn latefally, whereby the rear end of the frame is free to swing laterally when said auxiliary wheel is in contact with the ground and the vehicle is free to swerve laterally during its progress in tilted position.

1,472,376. COOKING UTENSIL. CALVIN TURNER, Bangor, Me. Filed Dec. 8, 1921. Serial No. 521,023. 9 Claims. (Cl. 53—2.)



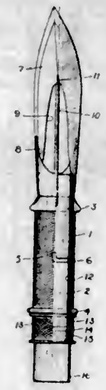
1. In a device of the class described, an inclosure having a flaring side wall to concentrate the heat within the interior, a container supported within the inclosure above the bottom thereof, said container having depressions at the side to form flues.

1,472,377. TROCAR. WILLIAM B. WESCOTT, Wellesley, Mass., assignor, by mesne assignments, to American Protein Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 8, 1919. Serial No. 288,641. 15 Claims. (Cl. 17—1.)



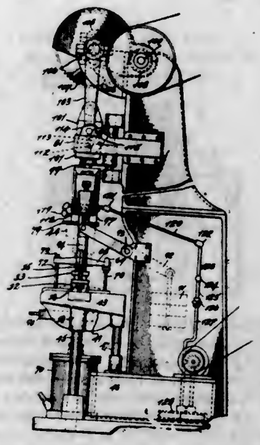
1. An instrument for withdrawing blood from food animals at the time of their slaughter, comprising a cannula capable of being inserted in the slaughter wound and provided with inlet passages to permit the free flow of blood therein, and having secured to the walls thereof movable members positioned entirely without the cannula passage, said movable members being provided with means adapted to engage the walls of the incision to positively retain the cannula therein.

1,472,378. TROCAR. WILLIAM B. WESCOTT, Wellesley, Mass., assignor, by mesne assignments, to American Protein Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 12, 1921. Serial No. 436,658. 12 Claims. (Cl. 17—1.)



1. An instrument for withdrawing blood from food animals at the time of their slaughter, comprising a cannula, a blade for forming an incision in the animal, and movable means adapted to spread apart the lips of the incision formed by the blade.

1,472,379. CYLINDER-LAPPING MACHINE. WILLIAM J. ALLES and SIDNEY C. PROBERT, Detroit, Mich., assignors to Dodge Brothers, Detroit, Mich., a Corporation of Michigan. Filed July 15, 1920. Serial No. 396,582. 19 Claims. (Cl. 51—59.)



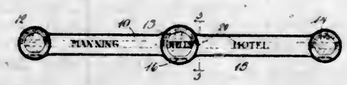
1. In a lapping machine, the combination with a lapping tool mounted for reciprocatory motion, of a table for supporting the cylinder casting to be lapped, said table movable from a position out of reach of the tool when in its lowest position to a position permitting the tool to enter the cylinder bore, and a frame for retaining the lapping tool when the table is in its lowered position, said frame movable out of contact with the tool as the table is raised.

1,472,380. CLAMP. FRANCIS C. ATWOOD, Newton, Mass., assignor, by mesne assignments, to American Protein Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 24, 1921. Serial No. 439,339. 9 Claims. (Cl. 17—1.)



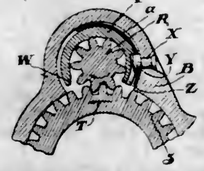
1. A clamp for holding a cannula in an incision in the body of an animal comprising a pair of relatively movable actuating levers, and a pair of clamping jaws having curved bearing surfaces for gripping the lips of an incision against the cannula mounted respectively on the ends of said levers and disposed at an angle thereto.

1,472,381. REENFORCED SEAL. OWEN M. BANGS, Brooklyn, N. Y. Filed Feb. 17, 1923. Serial No. 619,680. 8 Claims. (Cl. 292—307.)



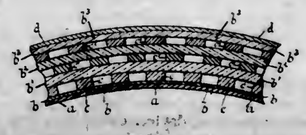
4. A closure fastener for baggage and the like, comprising a strip of gummed paper reinforced by a strip of metal, the reinforcing strip being pasted to the baggage, and extending over the line of closure.

1,472,382. LOCKING DEVICE FOR INDEPENDENT ROTATION MOTORS. LEWIS C. BAYLES and FRED M. SLATER, Easton, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 29, 1921. Serial No. 518,639. 9 Claims. (Cl. 121—7.)



1. In a fluid actuated rock drill of the hammer type, the combination with the cylinder and reciprocating piston, of an independent fluid actuated rotation motor for the drill steel, and mechanical means for holding the motor against reverse rotation connected to be operated by rotative movement of the drill cylinder opposite to the angular direction of thrust of the motor on the machine.

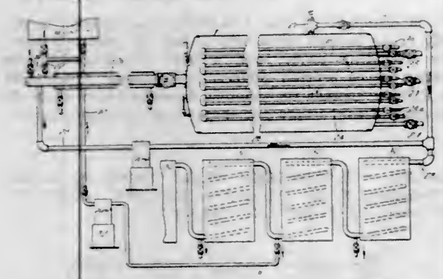
1,472,383. TIRE FOR WHEELS OF ROAD VEHICLES. WILLIAM CHARLES BILHAM, Southampton, England. Filed Aug. 6, 1920, Serial No. 401,764. Renewed Sept. 18, 1923. 3 Claims. (Cl. 152—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A resilient tire for vehicles comprising an elastic band fitted about the rim of a wheel, a tread surface spaced therefrom by a plurality of alternate elastic bands

and intervening series of resilient blocks, the blocks of the several series being spaced apart a distance at least equal to the width of the blocks in the next adjacent series and located opposite the spaces between the blocks of said next adjacent series.

1,472,384. PROCESS OF SEPARATING HYDROCARBONS FROM WATER. WALTER ARTHUR BROWN, Los Angeles, Calif. Filed Feb. 24, 1919. Serial No. 278,728. 4 Claims. (Cl. 196—25.)

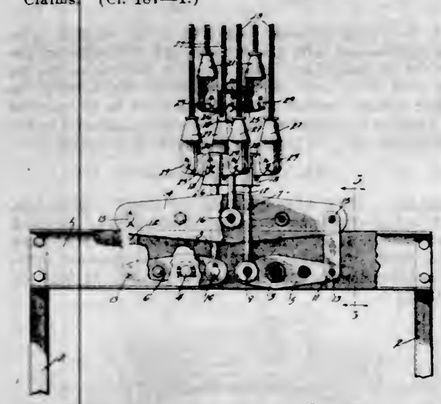


1. In a process for separating hydrocarbons and water from a mixture thereof, admixing alcohol with said mixture, to thereby free the water from the hydrocarbons, then heating the whole admixture under a pressure sufficient to prevent water vaporization, but allowing vaporization of the alcohol and of the lighter hydrocarbon constituents.

1,472,385. PROCESS OF SEPARATING HYDROCARBONS FROM WATER. WALTER ARTHUR BROWN, Los Angeles, Calif. Filed Feb. 24, 1919. Serial No. 278,729. 9 Claims. (Cl. 196—25.)

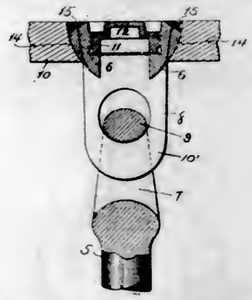
6. In a process for separating hydrocarbons and water from a mixture thereof, admixing with such mixture a finely divided absorbent clay, then heating the admixture and allowing the water and precipitant to settle.

1,472,386. CABLE EQUALIZER. HOWARD B. COOK, Norwood, Ohio, assignor to The Warner Elevator Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 1, 1922. Serial No. 604,138. 9 Claims. (Cl. 187—1.)



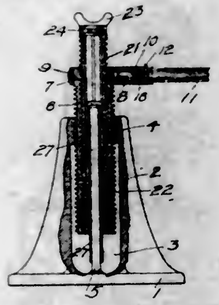
5. A tension equalizing device, comprising two pivoted levers having aligned pivots, drawbars pivoted to adjacent short arms of said levers, links pivoted to non-adjacent long arms thereof, a shackle member connecting said links, said member composed of space plates clamped together, a drawbar pivoted between said plates, centrally of said shackle, and equal-armed levers pivoted to the extremities of said drawbar in non-parallel relation with one another and with said shackle, and means for attaching cables to the ends of said equal-armed levers.

1,472,387. STAY-BOLT STRUCTURE. ETHAN I. DODDS, Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Feb. 16, 1921. Serial No. 445,456. 2 Claims. (Cl. 85—1.5.)



1. In a stay bolt construction, the combination of a two part bolt consisting of a shank and a head connected by a link joint the outer end of the head being conical, a boiler sheet having a bolt hole the wall of which is in the segment of a sphere, and a bolt bearing member formed in the arc of a circle and initially adjustable in the opening for the bolt, the said bolt bearing member and conical head being welded together and also to the sheet.

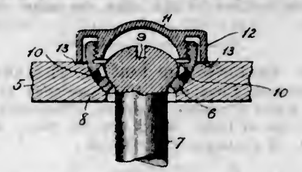
1,472,388. SCREW JACK. RAY C. FINCH, Spokane, Wash. Filed June 7, 1921. Serial No. 475,824. 1 Claim. (Cl. 284—102.)



The combination with a hollow pedestal having an integral central square stem and a threaded bearing head, of an interiorly and exteriorly threaded, tubular screw bar in said head and means for turning said bar, a second tubular screw bar within the first bar having an opening in its lower end and provided with interior, longitudinal grooves, a telescoping sleeve on said stem, a square closed head on said sleeve, and lugs on said square head engaging said grooves.

1,472,389. STAY-BOLT STRUCTURE. JOHN ROGERS FLANNERY, Pittsburgh, Pa., and Ethan I. Dodds, Central Valley, N. Y., assignors to Flannery Bolt Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Feb. 16, 1921. Serial No. 445,453. 4 Claims. (Cl. 85—1.5.)

1. In a staybolt structure, the combination of a boiler sheet having an opening therein and a bearing member for a stay bolt head within said opening, the said bearing member being provided with an opening in its side and



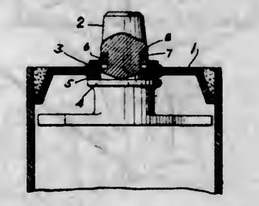
welded to the sheet intermediate the inner and outer surfaces of the latter by welding material introduced into said opening.

1,472,390. METHOD OF MAKING STAY BOLTS. JOHN ROGERS FLANNERY, Pittsburgh, Pa., assignor to Flannery Bolt Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Mar. 18, 1921. Serial No. 453,219. 2 Claims. (Cl. 10—27.)



1. The herein described method of making a staybolt, consisting in forming a head at one end of a solid bar of metal, then drilling a hole longitudinally through the bolt thus formed and causing said hole to extend throughout the full length of the body of the bolt and completely through its formed head, and inserting a closure in the head to close the outer end of said hole.

1,472,391. TERMINAL SEAL FOR STORAGE BATTERIES. BRUCE FORD, Philadelphia, Pa. Filed June 15, 1920. Serial No. 389,196. 4 Claims. (Cl. 204—29.)



3. In a terminal seal for storage batteries the combination of an apertured cell cover, a terminal post for a set of battery plates passing through the aperture in said cover and formed with a shoulder underneath the cover and with a pair of lateral notches above the cover, a soft packing gasket interposed between said shoulder and cover, and a pair of wedges respectively engaging said cover and notches for holding the gasket under compression.

1,472,392. FRUIT CLIPPER. LEO M. HARVEY, Los Angeles, Calif. Filed May 27, 1920. Serial No. 386,359. 5 Claims. (Cl. 30—24.)

1. An implement of the character described embodying relatively movable members provided with clipping jaws at one of their ends and handles at their other ends, the intermediate portions thereof being enlarged and having cavities therein, the cutting edges of said jaws being cupped for insertion into the stem pit of fruit, a stop member held stationary in the cavities of said members and having a forwardly projecting lip with an edge extending transversely of said cutting edges, for limiting the adjustment of the implement relative to the fruit

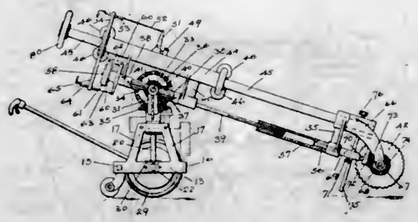


stems in a clipping operation, and a spring having the end portions thereof engaging said handles, and the intermediate portions thereof engaging portions of said stop member for holding said stop member in operative position when the jaws are open, and for holding said jaws normally closed.

1,472,393. PAVING MATERIAL. WILLIAM T. HEADLEY, Philadelphia, Pa. Filed July 13, 1920. Serial No. 395,930. 1 Claim. (Cl. 106—31.)

Paving material for use on roads, streets, platforms and the like, capable of manufacture without the application of heat and susceptible of bulk shipment without setting and consisting of a mineral aggregate and an emulsion of bitumen and which contains a volatile solvent of bitumen which delays setting of the material while in bulk and until spread.

1,472,394. SAW ATTACHMENT FOR TRACTORS. VICTOR L. HOLT, Portland, Oreg. Filed Mar. 28, 1921. Serial No. 456,402. 6 Claims. (Cl. 143—43.)



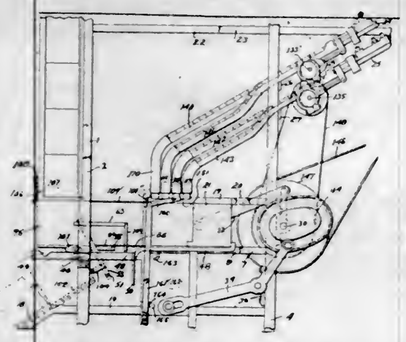
1. A frame attachable to a power vehicle; a vertically disposed shaft journaled upon said frame; means to operate said shaft from said vehicle; a universal head mounted upon said vertical shaft; a longitudinally slidable member mounted upon said universal head to oscillate independently thereof; means to mount a tool upon one end of said slidable member; and means to drive said tool from said vertical shaft through mechanism within said universal head.

1,472,395. LUMP-SUGAR-PACKING MACHINE. GIUSEPPE IACOBITTI, Crockett, Calif. Filed Nov. 14, 1921. Serial No. 514,963. 7 Claims. (Cl. 226—16.)

1. In a sugar packing machine the combination with means for packing the sugar lumps in a carton, of chutes for delivering the sugar lumps to the packing mechanism, and two series of bars aligned with the chute partitions and oppositely reciprocable for arranging the sugar lumps in the chutes.

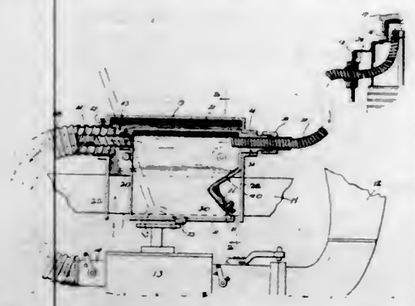
7. An apparatus of the class described comprising a pivoted carton holder, cams for supporting said carton holder, means to arrange a series of lumps of sugar, means to push the sugar lumps into the carton, said means also being connected to the means for permitting the carton holder to be depressed to discharge its loaded carton, a

frame carrying a plurality of spring wings arranged to be projected into the carton upon pressure of the arranged pile of lumps for preventing the arranged series of sugar



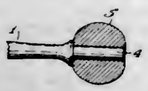
lumps from catching on the edges of the carton, and means operated by the carton carrier to place said frame in a position to receive pressure from the newly arranged series of sugar lumps after one operation thereof.

1,472,396. COMBINED STOVE AND HUMIDIFIER. GEORGE A. KREUTZER and KENNETH L. LONG, Lincoln, Nebr.; Natalie C. Long executrix of said Kenneth L. Long. Filed Mar. 6, 1920. Serial No. 363,895. Renewed Aug. 11, 1923. 5 Claims. (Cl. 123—25.)



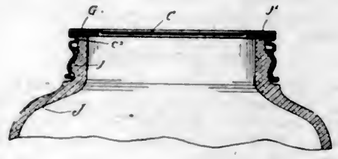
1. A device of the character described comprising, a heating chamber having a vapor inlet and a vapor chamber having a vapor inlet and a vapor outlet disposed adjacent the top thereof, a hood forming a jacket over the top and one side of said heating chamber and having an opening aligning with the vapor outlet, a heated air conduit connected with said hood opening, and a water vapor conduit extending through said heated air conduit leading from the vapor outlet to the carbureter of an engine.

1,472,397. SNARE-DRUM STICK. ULYSSES G. LEEDY, Indianapolis, Ind., assignor to Leedy Manufacturing Company, Indianapolis, Ind., a Corporation of Indiana. Filed Jan. 22, 1923. Serial No. 614,156. 1 Claim. (Cl. 84—422.)



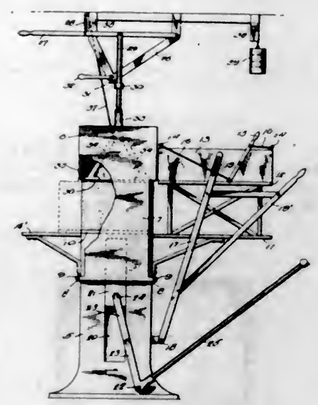
A snare drum stick of conventional size and shape and having a felted beater head of a weight equivalent to the conventional wooden head for the same size and balanced stick to produce a soft beater head on a snare drum stick whereby the stick may be used for performance on other instruments than the drum without sacrificing the correct balance of the stick for snare drum performance.

1,472,398. SEALING TOP FOR FRUIT JARS. CECIL H. LONGMAN, Cincinnati, Ohio, assignor to The Security Metal Products Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 24, 1921. Serial No. 510,109. 3 Claims. (Cl. 215—40.)



1. A one-piece screw top for jars consisting of a circular disc, a depending flange integral with the outside edge of said disc, a circumferential slot formed at the top of said flange by an annular shelf on said flange, the space between said shelf and the under side of the top being substantially the thickness of the gasket and substantially the diameter of the outside of the gasket.

1,472,399. PLASTIC-BLOCK-MAKING MACHINE. SYLVESTER H. PETTENGILL, Rock Rapids, Iowa. Filed Dec. 10, 1921. Serial No. 521,448. 10 Claims. (Cl. 25—41.)

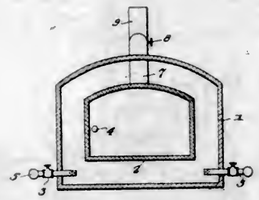


2. A block making machine including a vertical standard, a mold box having end walls straddling the standard slidably connecting the mold box therewith, a follower, and means for elevating the box about the follower.

1,472,400. ANTIFRICTION BELT DRESSING. MENDEL PIANKO, Chicago, Ill. Filed Oct. 6, 1921. Serial No. 505,955. 1 Claim. (Cl. 134—79.)

A composition of matter for use as a belt dressing to prevent slipping, consisting of a solution of 16 oz. of soluble cotton in a mixture of ½ gal. of alcohol and ½ gal. of ethyl acetate, there being added ½ gal. of castor oil to a gallon of the solution, the resultant product, when applied to a surface and dried, having a slightly sticky surface.

1,472,401. METHOD OF AND APPARATUS FOR OPERATING MUFFLE FURNACES. FRANK GROTHAUS ROBERTS, Baltimore, Md. Filed July 13, 1922. Serial No. 574,730. 7 Claims. (Cl. 25—144.)



1. The method of operating muffled furnaces to continuously keep the same to a working heat comprising simultaneously heating the exterior and interior of the muffle.

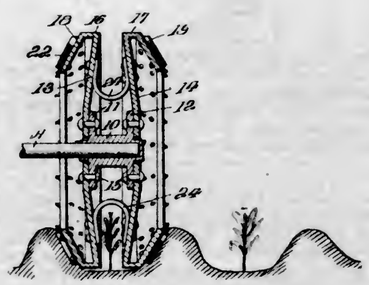
1,472,402. CLEANING AND POLISHING FLUID. ANDREW M. SNYDER, Hamilton, Ohio. Filed Aug. 16, 1921. Serial No. 492,762. 3 Claims. (Cl. 134—24.)

3. The herein described composition of matter for cleaning and polishing, comprising boiled linseed oil, one quart; spirits of turpentine, one quart; wood alcohol, one quart; vinegar, one quart; and sea salt, one ounce.

1,472,403. PROCESS FOR THE SYNTHETIC PRODUCTION OF ALKALI-METAL CYANIDES. FOORD VON BICHOWSKY, Glendale, Calif. Filed June 1, 1921. Serial No. 474,222. 4 Claims. (Cl. 23—13.)

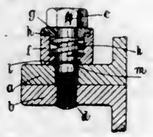
1. The synthetic production of sodium cyanide by heating a nitride with a carbide together with sodium carbonate at such a temperature that the loss of nitrogen as such is practically avoided while the sodium carbonate is converted into sodium cyanide and the carbide into an oxygen containing compound.

1,472,404. WHEEL CONSTRUCTION. EVERETT C. WESTERFIELD, Tyrone, Okla. Filed Nov. 15, 1919. Serial No. 338,295. 7 Claims. (Cl. 301—41.)



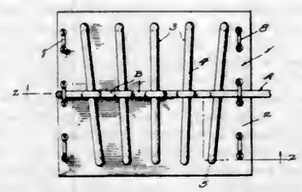
2. A tractor wheel having a hub, a pair of spaced spoke members mounted thereon, each of said spoke members having a trend member which is bent back and inwardly with respect to the axis of the hub to form inclined tread portions extending away from the median plane of the wheel, and driving lugs carried by said tread portions.

1,472,405. SPRING RELIEF BOLT AND INCLOSURE EMBODYING SAME. RICHARD AMBERTON, London, England. Filed Feb. 17, 1922. Serial No. 537,208. 6 Claims. (Cl. 220—55.)



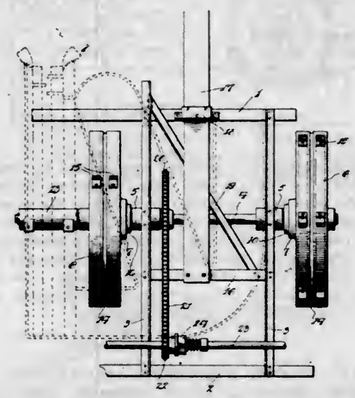
1. A relief bolt adapted for use in holding together the parts of an inclosure liable to damage by excess pressure, said bolt comprising a shank formed with a head, a spring surrounding the shank of said bolt, a spring box surrounding said spring and means for allowing a limited movement of said spring box toward the head of the bolt on compression of said spring.

1,472,406. FORMING DIE. CHARLES D. BRIDDELL, Crisfield, Md. Filed Aug. 23, 1922. Serial No. 583,814. 3 Claims. (Cl. 140—105.)



1. In a die, a bed block having a plane upper face, a series of spaced die rods upon the block, means associated with the die rods and entering the face of the block to anchor the said rods thereon, and retaining means for the work at opposite ends of the series of die rods.

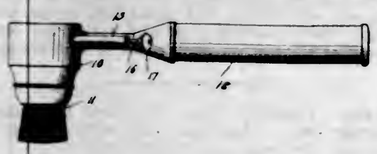
1,472,407. CORN PICKER. JAY A. BUCKINGHAM, Alta, Iowa. Filed Jan. 26, 1922. Serial No. 531,980. 1 Claim. (Cl. 56—51.)



In a corn picker, the combination with a frame including cross beams and longitudinal stringers secured to and extending between the cross beams, of a cross bar disposed between and secured to the stringers in ad-

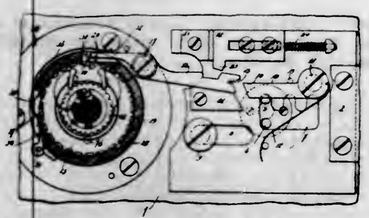
vance of the rear ends thereof, a diagonal brace extending between one of the stringers and the said cross bar, a tongue secured upon the cross bar and the front cross beam and disposed above the said brace, an axle mounted on the under sides of the stringers, a sprocket fixed upon the axle between the tongue and one of the stringers and also between the brace and the said stringer, ground wheels loosely mounted upon the axle at the outer sides of the stringers, means for operatively connecting the ground wheels with the axle, and means for transmitting power from the said sprocket to parts to be driven.

1,472,408. DAUBER. WILLIAM E. CASTLE and ROBERT L. HANSARD, Graham, Tex., assignors of one-third to E. G. Bailey, Richmond, Va. Filed Sept. 21, 1921. Serial No. 502,109. 1 Claim. (Cl. 15—138.)



A dauber having a hollow handle to constitute a reservoir, a feed tube having an enlarged flared portion connected to said handle, a hollow brush head attached to said tube with its longitudinal axis substantially at right angles to the longitudinal axis of the handle and into which the portion of said tube extends, said tube within the hollow brush head being flared inwardly to constitute a valve seat, a valve within the brush head engaging said seat, a spring to urge seating of the valve, an operating element extending at an angle to the axis of the tube and having connection with the valve so as to be maintained in normal position by said spring, and guide means rigid with the tube and brush head for slidably mounting said element.

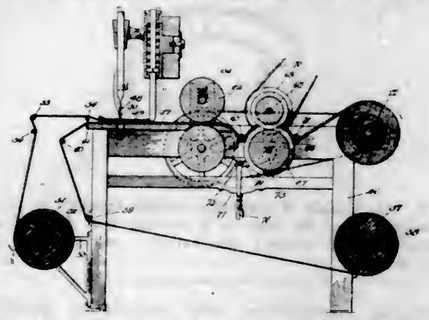
1,472,409. COMBINATION LOCK. AUGUSTE DENAYER, Brussels, Belgium. Filed Mar. 28, 1921. Serial No. 456,131. 12 Claims. (Cl. 70—53.)



1. In a combination lock, the combination of a spindle, a plurality of wheels and means between the spindle and said wheels for successively bringing the same into a definite angular relationship with each other, said means including mechanism operative to separately intercouple the spindle and the wheels to rotate the latter when the spindle is moved in one direction and operative to successively uncouple the said wheels by movement of the spindle in opposite direction.

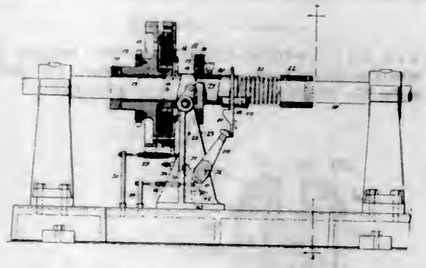
1,472,410. CLOTH STITCHING AND CUTTING MACHINE. FRANK R. EVANS, Zanesville, Ohio. Filed Apr. 4, 1921. Serial No. 458,335. 1 Claim. (Cl. 164—66.)

In a machine of the class described, a bed plate, feed rolls journaled above and below the plane of the bed plate and having coacting peripheral portions for engaging and advancing material over the bed plate, a roll having peripheral blades, the said roll being rotatably mounted beyond the bed plate, means for rotating the said roll, a shaft extending parallel to the axes of the several rolls and located in a plane below the bed plate, a hand lever connected with the shaft whereby the shaft may be rotatably adjusted, means for holding the hand lever in positions of adjustment, arms extending from the shaft, bearings at the ends of the arms, a roll



having trunnions journaled in the said bearings and located beneath the last mentioned roll and movable, upon adjustment of the shaft, into and out of coactive relation thereto, the last mentioned roll having peripheral grooves to receive the cutting edges of the blades upon the blade-carrying roll, a take-up roll, and guide rods extending longitudinally parallel to and at opposite sides of the upper surface of the grooved roll and tensioning the material passing therebeneath and over the said grooved roll to the take-up roll.

1,472,411. CLUTCH-OPERATING MECHANISM. BERNARD M. FINE, Deptford Township, Gloucester County, N. J., assignor to Samuel M. Langston Company, Camden, N. J., a Corporation of New Jersey. Filed Feb. 25, 1921. Serial No. 447,651. 15 Claims. (Cl. 192—33.)



1. In combination a driven clutch member axially movable into and out of power receiving position, an axially facing cam connected to said member and a pair of independently movable abutments engaging with said cam at diametrically opposite points to force said clutch member to freed position by the action of the cam against said abutments when said member and cam reach a predetermined point in rotation and said abutments being movable axially in respect to said clutch, to permit the movement of said clutch member to power receiving position.

1,472,412. WATER-CONTROL VALVE. JUSTUS C. GOOSMANN, Peoria, Ill. Filed May 15, 1920. Serial No. 381,741. 2 Claims. (Cl. 236—93.)

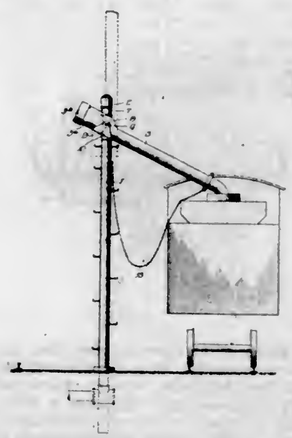
2. In a control valve, the combination of a conduit, a spider extending across said conduit, a thermostatic element secured at one end to said spider and disposed in

the conduit in the path of the controlled fluid flowing therethrough, a fluid supply chamber projecting into said conduit, means controlled by said thermostatic element for regulating the flow of fluid from said chamber into said



conduit, and a port independent of said regulating means through which fluid is continually delivered from said chamber into said conduit to influence said thermostatic element.

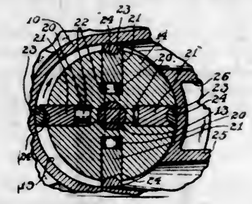
1,472,413. OIL-SERVICE STANDPIPE. LESLIE B. GRAHAM, East Chicago, Ind., assignor to National Boiler Washing Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 1, 1920. Serial No. 362,385. 13 Claims. (Cl. 137—21.)



1. In combination with a supply pipe for the delivery of fluid, a tilting discharge spout adapted to assume a delivery position to deliver fluid from the supply pipe and also a retracted position, and having a drip receptacle adapted to confine the fluid remaining after the spout is retracted, said receptacle being located at the end of said spout opposite to the delivery end thereof.

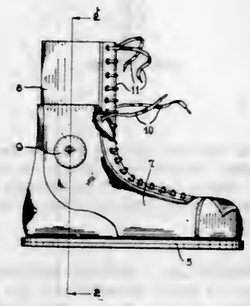
1,472,414. PUMP. JOHN W. GURLEY, Indianapolis, Ind. Filed Feb. 6, 1922. Serial No. 534,444. 5 Claims. (Cl. 103—138.)

1. A rotary pump, comprising a circular-cylindrical shell, a rotor body mounted eccentrically in said shell and having a plurality of pairs of diametrically opposite longitudinal slots in its surface, blades mounted in said slots for radial sliding therein, opposite blades having means for holding them at least a predetermined distance apart, said blades being provided with longitudinal grooves in their outer edges, wearing shoes pivotally mounted on the outer edges of the blades in said grooves and variably bodily separable from their associated groove surfaces and circumferentially shiftable relatively to them to maintain partial contact as the distance between



opposite wearing shoes varies during the rotation of the rotor; so that fluid pressure may act between said wearing shoes and blades to seat the wearing shoes against the shell.

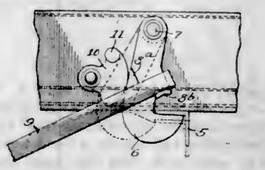
1,472,415. ATHLETIC SHOE. FRANK HAGGERTY, Chicago, Ill., assignor of one-fourth to Pinkie Izenstark, Chicago, Ill. Filed Jan. 3, 1921. Serial No. 434,484. 3 Claims. (Cl. 36—71.)



1. An athletic shoe comprising a sole, an upper secured to said sole, means for securing the upper on the foot of the wearer, a sheath in said upper, ankle pads upon the outer face of the upper, stitching securing said ankle pad, upper and sheath together, said stitching being the only connection between said upper and said sheath above the sole, and lacing means for securing said sheath about the ankle of the wearer, substantially as described.

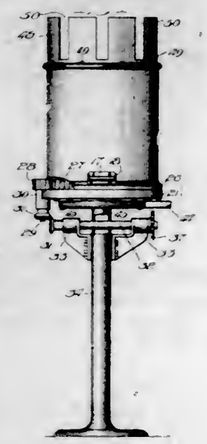
3. A device as set forth in claim 2, further characterized by the upper end of the sheath extending considerably above the upper to brace the ankle, substantially as described.

1,472,416. DUMP-CAR-DOOR LATCH. HARRY S. HART, Chicago, Ill., assignor to National Dump Car Company, a Corporation of Maine. Filed Jan. 3, 1922. Serial No. 526,591. 4 Claims. (Cl. 105—308.)



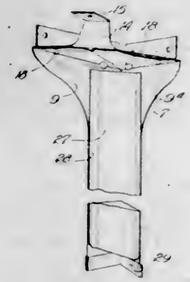
1. In a dump car, a discharge door, a latch engaging said door, and means carried by said latch adapted to engage opposite sides of a leverage arm and resist relative angular movement of the arm upon the latch.

1,472,417. DRYING MACHINE. GUSTAV W. HEDSTROM, Chicago, Ill., assignor of one-half to Peter W. Fulford, Chicago, Ill. Filed Oct. 20, 1922. Serial No. 595,866. 19 Claims. (Cl. 34—11.)



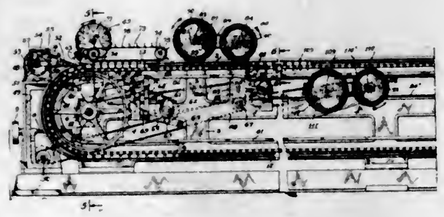
1. A drying machine for the purpose set forth comprising a drying chamber with means for admitting can ends thereto, and combined lifting threads and can end driving means to cause the can ends to travel through said chamber.

1,472,418. STOVE LEG. RUDOLPH HOFFMAN, Kankakee, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a Corporation of New York. Filed Sept. 17, 1920. Serial No. 410,857. 9 Claims. (Cl. 126—306.)



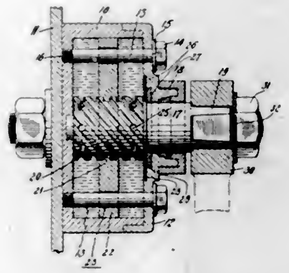
1. In a stove, the combination with a superstructure having a bottom with depending edge portions, a stove leg comprising a main or base portion formed from a blank of sheet metal and having a rigid top plate, and an upper portion secured to said top plate and having upright flanges offset inwardly from the outer faces of the base portion so as to form with said top plate shoulders upon which said edge portions of the stove are adapted to rest, said edge portions being rigidly secured to said flanges.

1,472,419. FIBER-DRESSING APPARATUS. OLIVER LA WHITE and HENRY LA WHITE, Glens Falls, N. Y. Filed Aug. 9, 1921. Serial No. 490,849. 30 Claims. (Cl. 19—3.)



23. In fiber dressing apparatus, the combination of gripping members, adapted to hold fiber therebetween and movable along a path, and means for shifting fiber lengthwise between said members first in one direction and later in the opposite direction, transversely to the direction of said path.

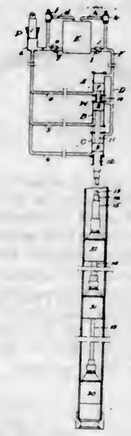
1,472,420. SHOCK ABSORBER. PORTER S. MORGAN, Norwalk, Conn. Filed Oct. 27, 1921. Serial No. 510,888. 2 Claims. (Cl. 188—89.)



1. In a device of the character described, the combination with two members of a vehicle adapted to move toward and from each other of a shock absorber therebetween, said shock absorber comprising a closed cylinder fixed against movement to one of said members, a piston reciprocably mounted in said cylinder capable of dividing the same into two communicating fluid-filled compartments, means within said cylinder for preventing rotation of said piston relative to said cylinder, an oscillating spindle mounted in said cylinder, a lever system connected to said spindle and the other one of said vehicle members, and a gearing for translating the oscillating movement of said spindle into linear movement of said piston.

1,472,421. HYDRAULIC ENGINE. ROBERT E. NEWCOMB, Holyoke, Mass., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Oct. 7, 1921. Serial No. 506,135. 10 Claims. (Cl. 103—45.)

8. A hydraulically operated engine, comprising a plurality of cylinders, power transmitting pistons therein, water rod connections to said cylinders, an actuating pump for imparting power impulses to said water rods for actuating said pistons, a manifold connection between the cylinders of said hydraulic engine to permit displacement of liquid from cylinder to cylinder as the pistons therein move in opposition to each other, and valved connections between the cylinders of both the actuating pump and the hydraulic engine and the make-up tank and between the manifold and said tank, for synchronizing the



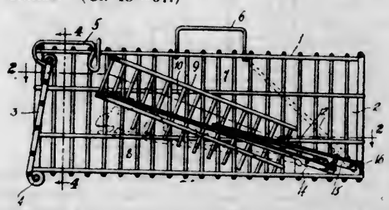
movements of the hydraulic engine pistons with respect to each other and the plungers of the actuating pump, respectively.

1,472,422. LAPPING-MACHINE TOOL. WILLIAM J. ALLES and SIDNEY C. PROBERT, Detroit, Mich., assignors to Dodge Brothers, Detroit, Mich., a Corporation of Michigan. Original application filed July 15, 1920, Serial No. 396,582. Divided and this application filed July 12, 1921. Serial No. 484,054. 9 Claims. (Cl. 51—206.)



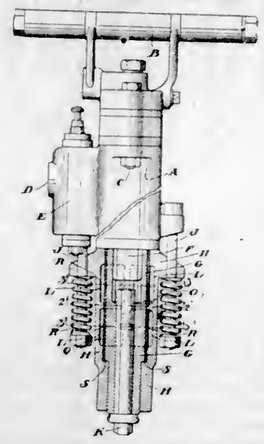
1. In a lapping tool, the combination with a plurality of lapping stones each mounted for movement radially as a unit, of a spring situated within said tool, and connecting means between said spring and both ends of each stone whereby uniform radial pressure is exerted by said spring against said stones.

1,472,423. ANIMAL TRAP. WILLIAM E. BAKER, Waco, Tex., assignor to Wonder Trap Co. Inc., Waco, Tex., a Corporation. Filed July 5, 1921. Serial No. 482,335. 3 Claims. (Cl. 43—67.)



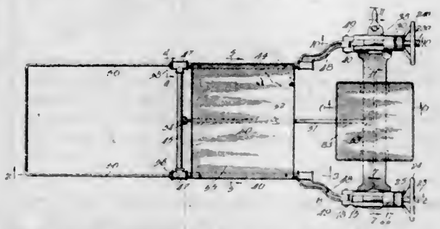
1. In a trap, a cage having an open end, a plate set on edge and extending across said end of the cage and along the cage sides, an inclined wall extending from in front of said plate upwardly toward the rear and top of the cage, an under trap door pivoted to the sides of said plate at points spaced from the outer end of the trap door, a shorter and upper trap door pivoted at its outer end to the sides of said plate outwardly beyond the pivotal point of the under trap door, and means for operating the two doors including a bar pivoted to and extending across, and beneath the under trap door and having its ends extending upwardly and turned inwardly and pivoted to the upper trap door to normally hold each of said doors at an incline and substantially in the plane of the said inclined wall.

1,472,424. OILING DEVICE FOR ROCK DRILLS. LEWIS C. BAYLES, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 29, 1921. Serial No. 518,549. 4 Claims. (Cl. 121—7.)



1. In a rock drill, the combination with a cylinder and reciprocating piston, of a front head having oil chambers in its walls, a separate means forming an inner wall for said chambers, means for introducing oil into said chambers and ports affording communication between the said chambers and the interior of the front head.

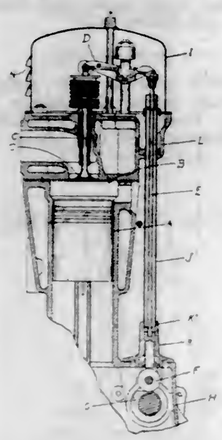
1,472,425. MECHANIC'S WORKSTAND. HARRY E. PATRICK and ANDREW J. PETERSON, Evanston, and JOHN W. BERMES, Chicago, Ill., assignors to Service Station Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed July 23, 1918. Serial No. 246,365. 8 Claims. (Cl. 29—89.)



8. A work stand comprising a base and column with widely spaced upstanding arms surmounted by holders; a support extended laterally from the upper part of the column and supplying a rest at its extremity for an

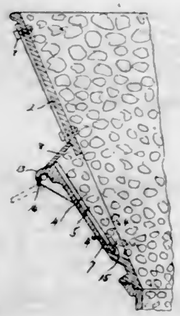
elongated longitudinal member of a piece of work whose transverse member is engaged with the first-mentioned holders; and a basin or tray between the arms of the column.

1,472,426. INTERNAL-COMBUSTION ENGINE. ALANSON P. BRUSH, Detroit, Mich. Filed Apr. 1, 1920. Serial No. 370,615. 13 Claims. (Cl. 123—90.)



1. In an engine, the combination with a crank case, of a valve operating rod extending upward from said crank case, a slide bearing for the rod on the crank case ported to afford communication between the interior of the crank case and the atmosphere, and a tubular housing enclosing said rod and resting on the bearing and in atmospheric communication through the bearing with the interior of the crank case, whereby displaced warm air from said crank case surrounds said rod.

1,472,427. FUEL HOPPER FOR AUTOMATIC STOKERS. JOHN D. CAMPBELL, Detroit, Mich., assignor to Detroit Stoker Company, Detroit, Mich., a Corporation of Michigan. Filed July 24, 1922. Serial No. 577,132. 12 Claims. (Cl. 193—1.)



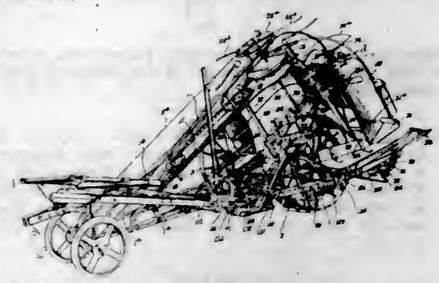
1. A fuel hopper having an opening in its lower portion, a removable plate forming a closure for the major portion of said opening, and a coacting adjustable closure for the remaining portion of said opening providing for introduction of a tool to relieve choking.

1,472,428. BOOSTER FOR SIPHONS. CARROLL H. CASE, St. Louis County, and WILLIAM C. FARRAR, St. Louis, Mo. Filed May 12, 1921. Serial No. 468,981. 5 Claims. (Cl. 137—20.)



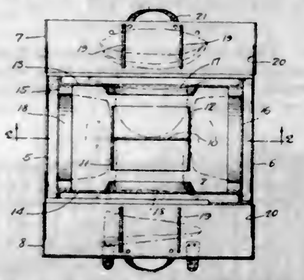
2. In combination with a siphon having a source of supply and place of discharge, an air pump whereby said siphon may be primed and maintained free of air, and means whereby water from said source of supply may be impelled into said siphon near the discharge end thereof.

1,472,429. CORN HARVESTER AND BINDER. HENRY J. CASE, Poughkeepsie, N. Y., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Filed Jan. 15, 1920. Serial No. 351,673. 20 Claims. (Cl. 56—70.)



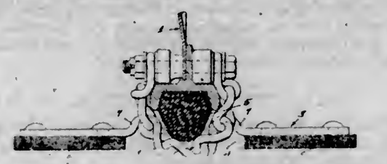
1. In a corn harvester, the combination of a main frame provided with a stalk passage in which the stalks are conveyed in an upright position, a bottom for said passage to support the butts of the stalks, means for adjusting said bottom relative to the passage in the direction of the length of the stalks, an automatic binding mechanism sustained by the main frame in position to act on the stalks in the passage, and means independent of the bottom adjusting means for adjusting the binding mechanism relative to the passage in a direction lengthwise of the stalks.

1,472,430. HATBOX. JOHN CAVANAGH, South Norwalk, Conn., assignor to The Crofut & Knapp Company, New York, N. Y. Filed Jan. 14, 1922. Serial No. 529,117. 6 Claims. (Cl. 206—8.)



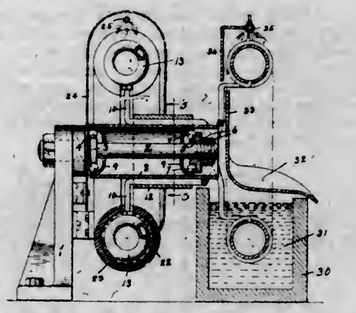
1. In a hat box having sides, ends, and bottom, a longitudinal approximately central vertical partition extending for a portion of the length of the box, and substantially vertical transverse partitions extending at least part of the width of the box disposed at each end of said longitudinal partition.

1,472,431. ENDLESS-BELT TRACTOR. AUSIN M. CHASE, Syracuse, N. Y. Filed Mar. 19, 1921. Serial No. 453,606. 1 Claim. (Cl. 305—10.)



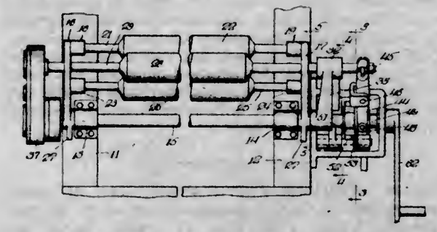
In a tractor, the combination of a pair of wheels a tractor belt running over the wheels and comprising a pair of endless belt units of flexible material spaced and running on opposite sides of the tread of the wheel and cross bars connecting the units and extending across the space between the belts, the wheels being provided with tires running in the space between the belt units and engaging the cross bars and a non-slipping member extending around the tire across the tread thereof, substantially as and for the purpose specified.

1,472,432. REFRIGERATING MACHINE. RANSOM W. DAVENPORT, Detroit, Mich. Filed June 10, 1921. Serial No. 476,391. 9 Claims. (Cl. 62—120.)



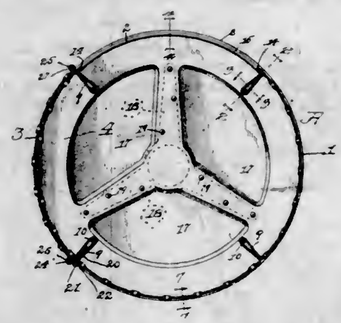
1. In a refrigerating machine, the combination of two rings connected to rotate on a common axis, one of the rings consisting of a series of containers of gas absorbent material and the other of a series of receptacles in which the gas may condense, a tank of liquid of low freezing point, a heater for the containers of the gas absorbent material, and means to sprinkle water on the two rings.

1,472,433. MOUNTING FOR PRINTING-PRESS FORM AND VIBRATOR ROLLERS. EDWARD F. DUDLEY, Oak Park, Ill., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 3, 1921. Serial No. 449,510. 4 Claims. (Cl. 101—358.)



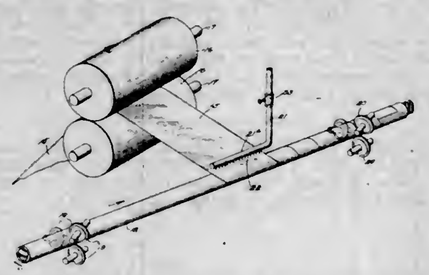
1. In a printing-press, the combination of a form-inking roller, a vibrator-roller normally in contact with said form-inking roller, a vibrator-roller shaft, means to rotate said shaft at one end thereof, means to reciprocate said shaft at its other end, and a hinged mounting for said rollers permitting them to be swung down from the form into inoperative position and substantially simultaneously separated from one another, at the same time maintaining said vibrator-roller rotating and reciprocating mechanisms operative, substantially as described.

1,472,434. CYLINDER FOR WASHING MACHINES. GUNNARD A. OBERG, Jamestown, N. Y., assignor to Blackstone Manufacturing Company, Jamestown, N. Y., a Corporation of New York. Filed Nov. 15, 1922. Serial No. 601,199. 6 Claims. (Cl. 68—18.)



1. A cylinder of thin sheet metal comprising a body member, a lid member and two end members, the body member being of perforated metal in tubular form of less than a complete cylinder and being bent upon itself to form thickened margins, the end members being provided with integral, outwardly extending, annular flanges adapted to embrace and hold the thickened margins of the ends of the body member, and a bearing flange on the lid member adapted to embrace the said annular flanges and permit sliding movement of the flanged lid thereover.

1,472,435. INNER TUBE FOR PNEUMATIC TIRES AND METHOD OF MAKING THE SAME. JOHN F. PALMER, St. Joseph, Mich. Filed Mar. 27, 1920. Serial No. 369,251. 8 Claims. (Cl. 154—14.)

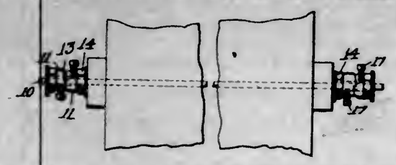


3. The process of manufacturing a fluid-pressure containing tube, which consists in spirally winding a strip of rubber or the like to form overlapping convolutions, excluding air from the interior of the tube, and vulcanizing the tube without the application of external confining means.

1,472,436. CONCRETE-FORM CLAMP. EARL R. PERRY, Worcester, Mass. Filed Dec. 29, 1922. Serial No. 609,681. 3 Claims. (Cl. 25—131.)

1. As an article of manufacture, a form clamp comprising two identical collars adapted to be received on a rod to be held, said collars being arranged right and left

handed on the rod and having co-acting adjacent cam surfaces on their ends, the collar which is nearest the



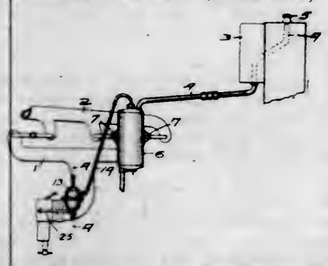
form, between that and the outer one, being adapted to be turned on the rod to force the outer collar outwardly and hold the rod firmly.

1,472,437. MILK-BOTTLE CONTAINER. JAMES V. PORTER, Conneaut, Ohio, assignor of one-half to Timothy J. Watson, Conneaut, Ohio. Filed Mar. 9, 1923. Serial No. 623,996. 1 Claim. (Cl. 232—41.)



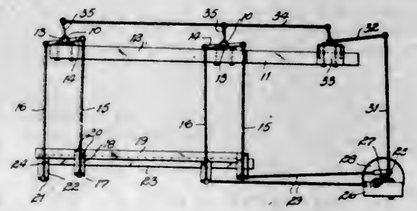
In an apparatus of the class described, a box, a cover therefor hinged thereon, a lower bottom therefor, an inner bottom spaced above the lower bottom so as to form a chamber between said bottoms, a lever pivoted between said bottoms, a vertically slidable post pivoted to one end of said lever and extending upwardly through said inner bottom, a guide bracket secured to the inner face of the front wall of said box, a vertically slidable rod pivoted to said lever and extending upwardly through said inner bottom, and through said guide bracket, a latch-hook on the upper end of said rod, a vertically swinging latch-hook adapted to co-act with the latch-hook on said rod pivoted on said hinged cover and means to yieldingly maintain said pivoted hook in a forward position.

1,472,438. AUXILIARY WATER VAPOR AND AIR VALVE FOR INTERNAL-COMBUSTION ENGINES. ORTON R. RADER, Toledo, Ohio. Filed Sept. 19, 1921. Serial No. 501,779. 2 Claims. (Cl. 123—25.)



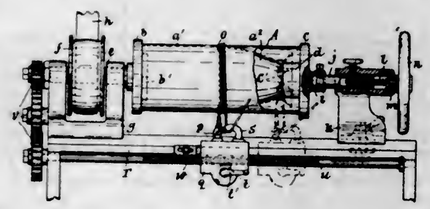
1. In a means, including vapor flow control means for supplying vapor to the intake of an internal combustion automobile engine, a container connected to the overflow pipe of the radiator of the engine and having a baffle plate located within the container and at a point substantially midway between the top and the bottom of the container, the overflow pipe connection extending to a point below the baffle plate, a combined air inlet and overflow pipe for said container, and means connecting the container with the intake manifold of an engine.

1,472,439. SCREENING DEVICE. CLARENCE J. SANDOE, St. Louis, Mo. Filed Sept. 8, 1922. Serial No. 586,881. 4 Claims. (Cl. 83—56.)



1. A screening device comprising a support, two sets of elongated hangers suspended therefrom in such manner that their lower ends are movable horizontally, a separate set of bars for each set of hangers, means for reciprocating said hangers vertically, and means for reciprocating said bars endwise, said means being adapted to move the bars of one set oppositely relatively to the movement of the bars of the other set.

1,472,440. MANUFACTURE OF PAPER CONTAINERS. MACK M. SCHWER, Hackensack, N. J. Filed Nov. 25, 1922. Serial No. 603,181. 5 Claims. (Cl. 93—60.)

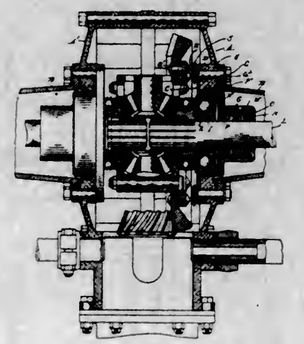


1. The hereindescribed method of forming a substantially tubular body of yielding material with a tapered portion which consists in placing said body portion on a tapered mandrel and then applying constricting pressure to the body in a zone cutting the tapered portion of the mandrel and simultaneously causing relative rotation around the axis of the body as between said body and the pressure-applying medium and also effecting movement of one of the latter relatively to the other lengthwise of said axis and so that said pressure will progress in the direction of convergence of the taper.

1,472,441. VEHICLE DRIVE AXLE. EARL H. SHERBONDY, Detroit, Mich., assignor to Sidney D. Waldon, Detroit, Mich. Filed Apr. 11, 1921. Serial No. 460,421. 9 Claims. (Cl. 74—99.)

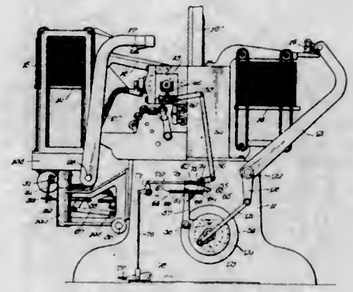
1. In an axle, the combination with a housing for the differential gearing, of a tubular extension for said housing engaging an outer wall thereof, a tubular member

for receiving a supporting bearing for the differential gearing having a flange engaging the inner face of the



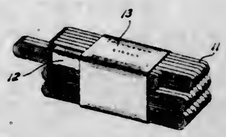
wall of said housing, and clamping bolts passing through said flange, housing wall and engaging said tubular extension to clamp the same in position.

1,472,442. PRINTING-PRESS TRIPPING APPLIANCE. BURT D. STEVENS, Evanston, Ill., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 26, 1921. Serial No. 448,112. 10 Claims. (Cl. 101—283.)



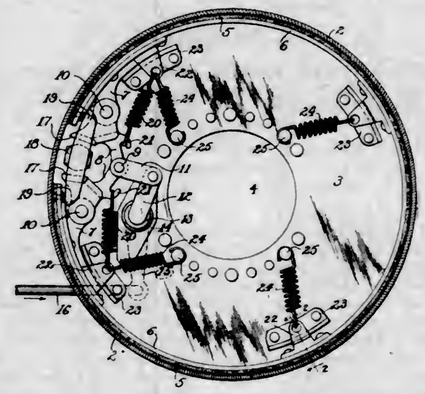
1. In a printing-press, the combination of an impression-cylinder, means to rotate said cylinder, a sheet-transporting feeder associated with said cylinder, and means controlled by the condition of the sheet-transporting part of the feeder to trip the cylinder when the feeder fails to properly advance a sheet, substantially as described.

1,472,443. LACING PACKAGE. ALBERT G. TITUS, Newton, Mass., assignor to The United Lace & Braid Mfg. Co., Cranston, R. I., a Corporation of Rhode Island. Filed Apr. 15, 1922. Serial No. 552,858. 3 Claims. (Cl. 206—46.)



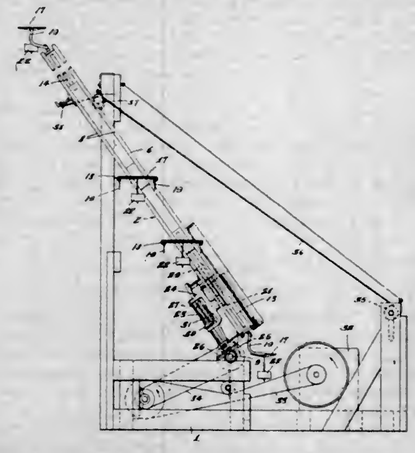
1. A package containing a definite number of pairs of lacings banded in side by side relation, said banded pairs being arranged in superimposed relation into a plurality of different and distinct piles, said piles being set side by side and these several piles being banded together to form a bundle substantially rectangular in cross section, the number of pairs of lacings in said bundle being the multiple of an adopted plural unit of merchandise, whereby the removal of any one of said units destroys the regularity of its appearance or contour thus facilitating the detection of such removal.

1,472,444. VEHICLE BRAKE. HERBERT VANDERBEEK, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 8, 1922. Serial No. 599,657. 13 Claims. (Cl. 188—78.)



1. A brake drum, a split brake band adapted to frictionally engage said drum, a toggle joint operatively connected to the ends of said band for moving the same into and out of engagement with said drum, and a stationary abutment adapted in the engaged position of said band to be engaged by portions of said toggle that are located closer to the drum than the elbow of said toggle and its points of connection with said band.

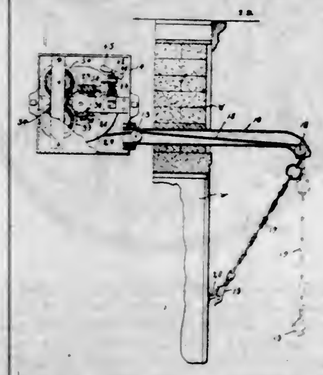
1,472,445. CONVEYING APPARATUS. FLOYD C. VAN ESELTINE, Eastwood, N. Y. Filed May 22, 1920. Serial No. 383,570. 1 Claim. (Cl. 198—158.)



In a conveying apparatus, the combination of a main frame, a horizontal shaft mounted in the main frame, a conveyor frame mounted on the shaft and movable about the axis thereof into different angular positions, the con-

veyor frame comprising a track quadrangular in general form extending around the margin of the main frame and arranged with the end runs thereof extending horizontally, the horizontal end of the conveyor frame extending parallel to and near the shaft, a conveyor movable along the track and comprising article carriers including trays, said carrier being mounted on the conveyor to automatically maintain the trays in horizontal position during the movement of the conveyor around the conveyor frame, means for actuating the conveyor including a driving gear mounted on said shaft and motion transmitting mechanism carried by the conveyor frame and including a gear meshing with the former gear, and means for tilting the conveyor frame about its axis, substantially as and for the purpose described.

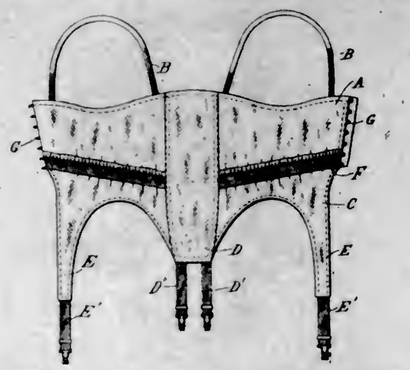
1,472,446. FIRE ESCAPE. MANOEL V. WANDERLEY, New York, N. Y. Filed Jan. 23, 1923. Serial No. 614,410. 2 Claims. (Cl. 254—152.)



1. In a fire escape, the combination of a casing having means for securing it within a building, a rectangular frame within the casing intermediate of its top and bottom, means to secure rigidly one side of the frame against the adjacent side of the casing while the opposite side of the frame extends approximately along the center of the casing, a shaft journaled in the frame and projecting through and beyond the latter mentioned side thereof, a power member fixed to the projected end of the shaft, a reel fixed to the shaft within the frame, a sleeve journaled upon the shaft between the reel and said latter mentioned side of the frame, said sleeve carrying a ratchet wheel and a gear wheel, a cable wound upon the reel, a pawl carried by the reel and co-operating with the ratchet wheel to cause rotation of the sleeve when the cable unwinds from the reel, automatic means operated by said gear wheel to regulate the speed at which the cable may unwind from the reel, and power means located in the space between the frame and the remote side of the casing for quickly rewinding the cable upon the reel, said power member serving to store power in the power means while the cable is unwinding.

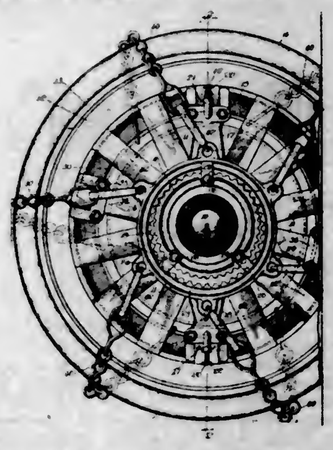
1,472,447. WOMAN'S FITTED UNDERGARMENT. DE VER H. WARNER and DE VER C. WARNER, Bridgeport, Conn., assignors to The Warner Brothers Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 15, 1921. Serial No. 461,581. 1 Claim. (Cl. 2—73.)

A woman's fitted undergarment including an upper portion adapted to support and cover the bust of the wearer, a section of non-elastic material located centrally of the front of the garment and extending from the top thereof to a point considerably below the waist of the wearer the lower end of said section having hose supporters attached thereto and being adapted to compress the abdomen, said garment including also extensions passing over the buttocks of the wearer, to each of



which extensions a hose supporter is attached, an elastic waistband being interposed between said extensions and said upper portion.

1,472,448. ANTISKID-WHEEL-CHAIN CONSTRUCTION. IRA A. WEAVER, Springfield, Ill., assignor to Weaver Manufacturing Company, Springfield, Ill., a Corporation of Illinois. Filed Oct. 20, 1919. Serial No. 331,797. 8 Claims. (Cl. 152—14.)

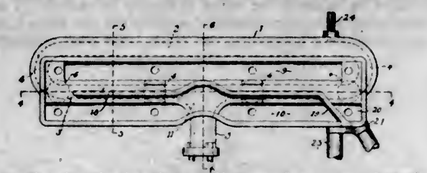


1. In an anti-skid appliance of the character described adapted for association with a vehicle-wheel and its tire, the combination of anti-skid means adapted to extend across the tread of the vehicle-wheel tire at all times that it is associated with the tire, and positively-acting means to cause said anti-skid means to travel circumferentially around and relatively to the tire, substantially as described.

1,472,449. INTAKE MANIFOLD FOR INTERNAL-COMBUSTION ENGINES. JAMES L. YARIAN, Syracuse, N. Y., assignor to H. H. Franklin Mfg. Company, Syracuse, N. Y., a Corporation of New York. Filed Dec. 26, 1919. Serial No. 347,622. 3 Claims. (Cl. 123—122.)

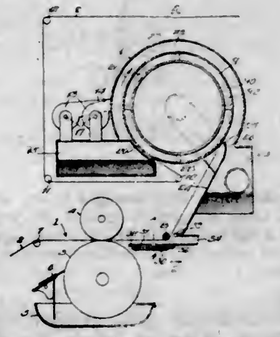
1. An intake manifold for interna. combustion engines comprising a body formed with upper and lower substantially parallel fuel passages communicating at their ends and an inlet passage pending from the lower passage, outlet ports leading laterally from the lower passage, a

box enclosing the lower passage and the inlet passage, the box being open at one side and having an inlet and



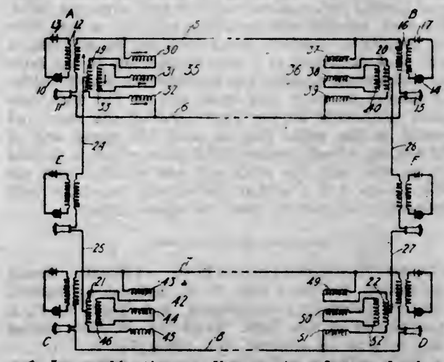
an outlet for the heating medium, and a cover plate for the open side of the box, substantially as and for the purpose set forth.

1,472,450. MEANS AND METHOD FOR DRYING PRINTED PAPER. JOHN C. YETTER, Chicago, Ill. Filed Mar. 26, 1920. Serial No. 368,830. 6 Claims. (Cl. 34—48.)



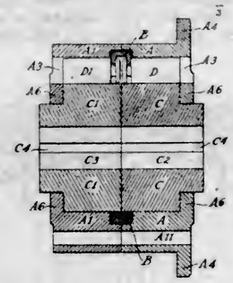
6. The improvements herein described comprising a printing press having a drying cylinder around which the paper is directed after it is printed, a casing substantially enclosing the cylinder and spaced therefrom to form an air channel, a plurality of power driven fans arranged in a row longitudinally of the cylinder and having exhaust conduits arranged side by side and extending continuously from one end of the cylinder to the other and adapted to in effect project a blast of hot air which is continuous in width from one end of the cylinder to the other.

1,472,451. PHANTOMED SIGNALING CIRCUITS. MILTON K. AKERS, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 3, 1920. Serial No. 407,972. 2 Claims. (Cl. 179—15.)



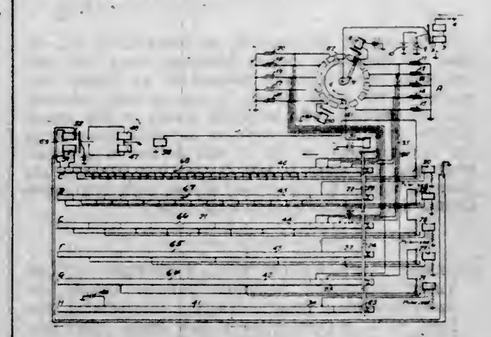
1. In combination, a line, a transformer having a winding in series with said line, a phantom tap connected to the midpoint of said winding, a second transformer having a winding in circuit with a second winding of the first transformer, and having other windings connected in series with said line on opposite sides of said tap.

1,472,452. DIFFERENTIAL. CIPRIANO ANDRADE, Jr., New York, N. Y. Filed Sept. 2, 1922. Serial No. 585,843. 2 Claims. (Cl. 74—7.)



1. In a differential; a driving member with a plurality of recesses in its inner surface, each of said recesses having each of its sides lower than its central portion; a first and a second driven member with outer surfaces containing no recesses, said outer surfaces of said driven members being inside of the said recesses in the inner surface of the driving member; a first set of locking rollers between the said outer surface of the first driven member and one end of the recesses in the driving member, only one roller being in each recess, and adapted to lock or unlock their said adjacent members either in a forward or reverse direction; a second set of locking rollers between the said outer surface of the second driven member and the other end of the recesses in the driving member, only one roller being in each recess, and adapted to lock or unlock their said adjacent members either in a forward or reverse direction; and a single ringlike control member having a plurality of elongated recesses receiving one end of the rollers, whereby the rollers have independent movement circumferentially of the control member.

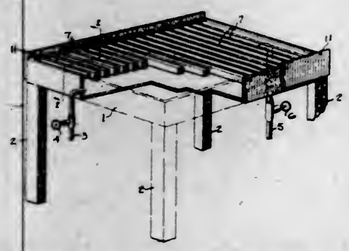
1,472,453. PRINTING TELEGRAPHY. JOHN H. BELL, South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 20, 1920. Serial No. 352,875. 3 Claims. (Cl. 178—34.)



1. A printing telegraph receiver comprising a plurality of groups of signal storing means, a distributor for allotting current impulses to said signal storing means, selecting mechanism, a translator switch for consecutively associating said signal storing means with

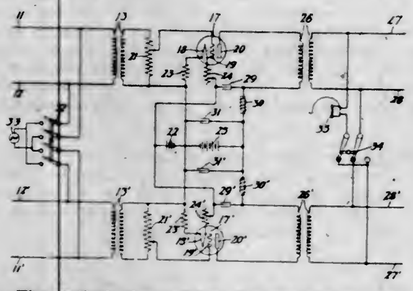
said selecting mechanism for effecting the operation thereof, and a printing magnet jointly controlled by said translator switch and said selecting mechanism for printing the characters of a message.

1,472,454. MEANS FOR COOLING PHOTOMECHANICAL PRINTING PLATES. GEORGE H. BENEDICT, Chicago, Ill., assignor to Powers Photo Engraving Company, New York, N. Y., a Corporation of New York. Filed Aug. 23, 1920. Serial No. 405,502. 11 Claims. (Cl. 62—11.)



1. A device for cooling photo-mechanical printing plates including in combination a liquid containing reservoir, a plate support therewith having fluid passing spaces formed therein, the reservoir and plate support being relatively movable vertically to control the action of the cooling fluid on a plate on the support.

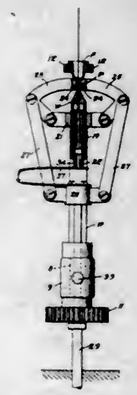
1,472,455. TESTING CIRCUITS. DAVID G. BLATTNER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 24, 1919. Serial No. 306,325. 7 Claims. (Cl. 179—171.)



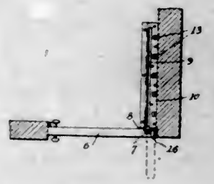
1. The method of equalizing the operation of two devices for amplifying electric impulses, which comprises impressing equal electric impulses of an audible frequency on the input circuits of said devices, reproducing said impulses with amplified energy in the output circuits of said devices, opposing an effect produced by the output current of one of said devices to a similar effect from the other of said devices, and adjusting the potential applied to one of said devices until said effects substantially counterbalance each other.

1,472,456. APPARATUS FOR TREATING GLASS. ALBERT BOARDMAN, Hamilton, Ontario, Canada, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 4, 1919. Serial No. 342,450. 12 Claims. (Cl. 49—2.)

12. In a machine of the character described, the combination with supporting means for a flare, press-forming jaws, means for operating said jaws including a vertically movable element, and a die block arranged below said supporting means and comprising an external tubular part having at its upper end a web pierced with apertures and a second part fitted in said tubular part to provide support for wires arranged in certain of said apertures, of a stem slidably mounted in the second part and projecting below the die block, said stem constituting a support for a wire arranged in one of said apertures and being movable to project the wire into the flare, and a spring contacting with said stem and said element at a period of the operation of said jaw operating means.



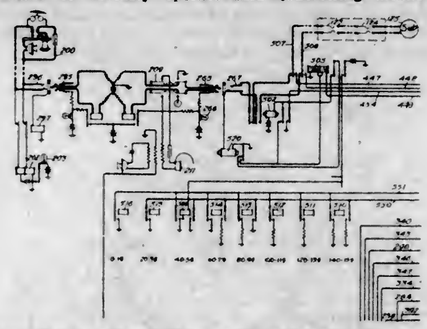
1,472,457. SWINGING AND SLIDING DOOR CONSTRUCTION. MYRON A. BROWN, New York, N. Y. Filed Nov. 28, 1922. Serial No. 603,760. 4 Claims. (Cl. 20—19.)



1. A swinging and sliding door construction comprising a vertical rod, a pinion thereon near each end thereof, a door, bearing strips securing said rod to said door and permitting rotation about said rod as an axis, a track plate extending at a substantial angle to the doorway and having a guide slot for said rod and anti-friction rollers to carry the lower end of the door, two spaced abutments at the upper end of the door and parallel to the guide slot to guide the upper end of said rod, one of said abutments being removable, a toothed rack parallel with the guide slot and meshing with the lower pinion, and a second rack carried by one of said abutments and meshing with the upper pinion.

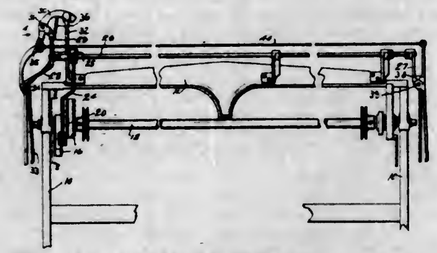
1,472,458. NUMBER-INDICATING SYSTEM. EDGAR H. CLARK, Richmond Hill, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 26, 1919. Serial No. 347,510. 8 Claims. (Cl. 179—27.)

1. In a number indicating system, selectively operable indicating devices, controlling means therefor, a plurality of multiposition switching devices, means to operate a desired one of said switching devices, and means to variably operate said controlling means in



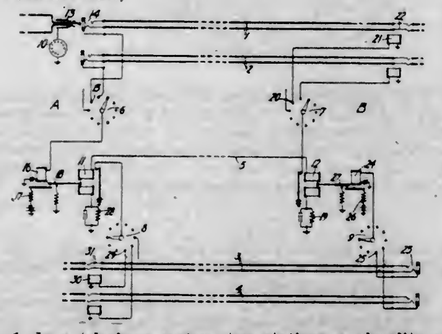
accordance with which one of said switching devices has been put into use and in accordance with the particular position assumed by said switching device.

1,472,459. TUBE FEEDING CHAIN MECHANISM FOR AXMINSTER LOOMS. EVERETT E. CLARK, Worcester, Mass., assignor to Crompton & Knowles Loom Works, a Corporation of Massachusetts. Filed June 30, 1922. Serial No. 571,862. 5 Claims. (Cl. 139—9.)



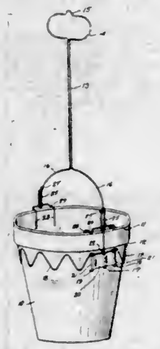
1. A tube chain feeding mechanism for an Axminster carpet loom comprising a feed shaft, means to angularly advance said shaft intermittently in either direction, reversing mechanism for said means including a pivotally mounted reversing arm, a latch for said arm, a release lever mounted on said arm, and connections from said lever to said latch, whereby said latch may be released.

1,472,460. TELEPHONE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, and CHARLES L. GOODRUM, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 28, 1918. Serial No. 268,664. 9 Claims. (Cl. 179—27.)



1. In a telephone system, two stations, a plurality of telephone circuits extending between said stations, a controlling circuit common to and independent of said circuits, switches at each station for completing connections with the other station over said telephone circuits and means for simultaneously controlling switches at both stations over said controlling circuit.

1,472,461. FLOWERPOT HANDLE. ROGER H. COMSTOCK, Milford, Conn. Filed Nov. 28, 1922. Serial No. 603,779. 8 Claims. (Cl. 294—27.)



1. A flower pot handle comprising downwardly extending arms provided with hooks at their lower ends, and a ring adapted to embrace a flower pot and engaged by said hooks, said ring comprising a zig-zag wire.

1,472,462. FRUIT PEELER. THEOPHILE DE PORT, Dayton, Ohio. Filed Sept. 18, 1922. Serial No. 588,821. 4 Claims. (Cl. 146—3.)

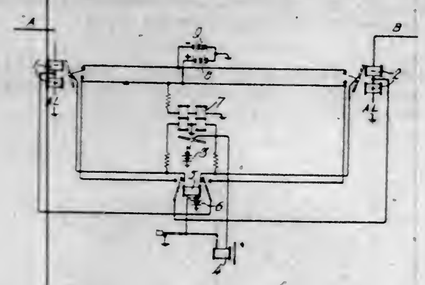


1. A fruit peeling implement comprising a handle, a head thereon for severing the skin from the fruit, and an elevating trough on either side of the head to lift the edges of the skin from the fruit, said parts being formed integral with the handle.

1,472,463. TELEGRAPH REPEATING SYSTEM. AUGUSTUS J. EAVES, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 30, 1921. Serial No. 465,671. 3 Claims. (Cl. 178—71.)

1. In a telegraph system, a line conductor divided into sections, repeating means intermediate such sections for relaying impulses from one line section to another

including a relay common to both of said line sections and responsive to impulses transmitted thereover, and



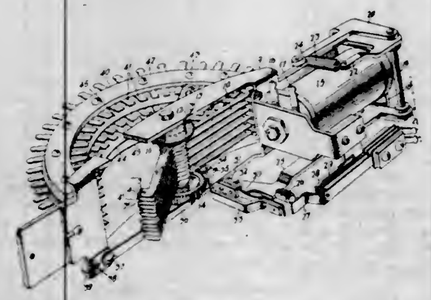
means controlled by said relay for giving an audible indication of the impulses relayed from one line section to the other.

1,472,464. INSIDE PIPE WRENCH. WILLIAM A. ELLISON, Salem, Mass., assignor to David F. Murphy, Salem, Mass. Filed June 13, 1922. Serial No. 567,952. 4 Claims. (Cl. 81—72.)



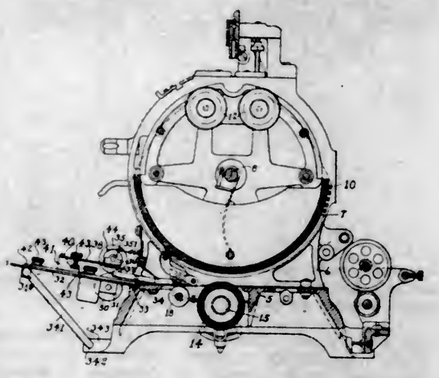
1. In an inside pipe wrench, the combination with a body having longitudinal grooves of progressively varying depth at one end, of jaws occupying said grooves and having inclined faces to fit the inclined bottoms thereof, each jaw having a head projecting beyond the periphery of the body, and a nut screw-threaded to the body and engaging the heads for moving the jaws in a direction to expand them.

1,472,465. AUTOMATIC SWITCH. OSCAR F. FORSBERG, Yonkers, and ROBERT M. DE VIGNIER, Hollis, N. Y., assignors to Western Electric Company Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 13, 1919. Serial No. 317,126. 4 Claims. (Cl. 74—341.)



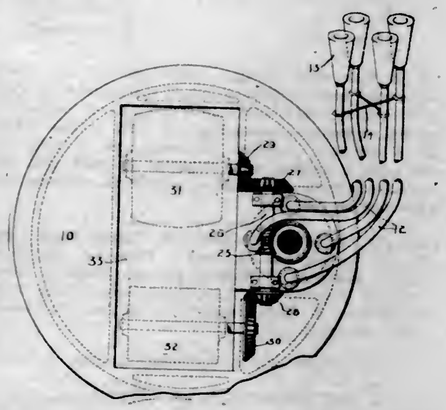
1. In an automatic switch for use in telephone exchange systems, power means comprising a ratchet wheel, a pawl in operative relation thereto, a stepping magnet, an armature for said stepping magnet, and a resilient driving member, having one end rigidly secured to said armature, and the other end rigidly secured to said pawl.

1,472,466. MECHANISM FOR FEEDING TAGS, CARDS, ETC. HARRY C. GAMMETER, Cleveland Heights, Ohio, assignor to The American Multigraph Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 6, 1920. Serial No. 415,153. 31 Claims. (Cl. 271—26.)



1. The combination with a printing machine of a paper feed device, a paper retracting mechanism, a guide member, and means co-operating with said guide member and adapted to engage the edge of the paper to align certain portions of the paper with a printing surface.

1,472,467. MILKING MACHINE. FREDERICK A. GESSLER, Martins Ferry, Ohio, assignor to Electric Milker Corporation, Chicago, Ill., a Corporation of Delaware. Filed Mar. 28, 1917. Serial No. 158,013. 19 Claims. (Cl. 31—99.)



1. A pulsator for milking machines having a movable valve provided with a plurality of ports for successive communication with a plurality of teat-cup connections and respective communication with sources of atmospheric and sub-atmospheric pressures alternate ports being graduated, and means for operating the valve.

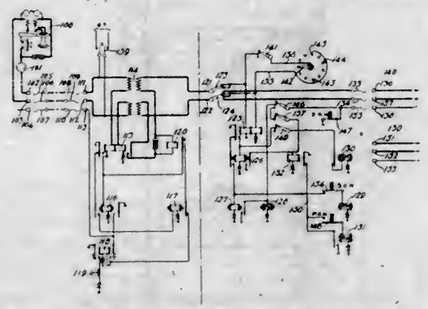
1,472,468. METAL CASING FOR LEAF-SPRING COVERS. ALBERT R. GOLDRICK, Cleveland, Ohio, assignor to Carl W. Schaefer, Lakewood, Ohio. Filed Jan. 10, 1922. Serial No. 528,332. 7 Claims. (Cl. 267—37.)

1. A spring cover comprising in combination a one-piece metallic casing formed of wire screen and extending substantially the entire length of the spring to be covered and joined longitudinally of the spring, metallic strips secured to the longitudinal edges of the screen



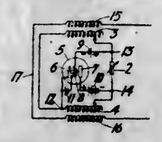
and a longitudinally flanged strip engaging said strips secured to the screen and comprising a closure member for the casing.

1,472,469. TELEPHONE-EXCHANGE SYSTEM. CHARLES L. GOODRUM, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 26, 1920. Serial No. 426,487. 7 Claims. (Cl. 179—27.)



1. In a telephone exchange system, a connecting circuit, a multi-position selective switch having primary and secondary movements, means for extending a talking connection over said circuit to the selective switch, means for operating said switch to any one of its positions, a signal, actuating means controlled over said connecting circuit for actuating said signal, and means operated when the selective switch is moved to certain of its positions for rendering said actuating means effective.

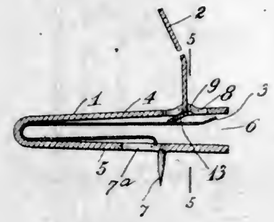
1,472,470. METHOD OF AND MEANS FOR PRODUCING ALTERNATING CURRENTS. RALPH V. L. HARTLEY, Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 30, 1918. Serial No. 225,808. 27 Claims. (Cl. 250—36.)



1. An oscillator comprising a closed oscillation circuit, a vacuum tube discharge device having an input circuit including one portion of said oscillation circuit and an output circuit including a second portion of said oscillation circuit inductively coupled to said first mentioned portion, said oscillation circuit determining the frequency of the oscillations produced by said oscillator.

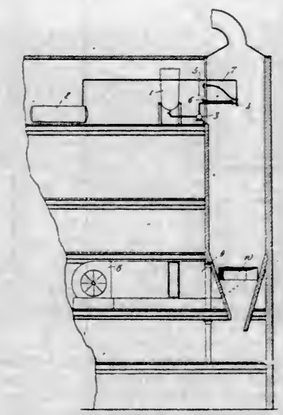
1,472,471. CLAMP THUMB TACK. JOHN W. HOPE, Pittsburgh, Pa. Filed Oct. 3, 1922. Serial No. 592,131. 3 Claims. (Cl. 24—258.)

1. A clamp thumb tack comprising a substantially U-shaped yoke member having a depending piercing means formed out of the lower arm of said yoke; a normally outwardly flaring U-shaped spring member positioned within the bight of said yoke member and having a downwardly directed projection engaging the aperture created



by the formation of said piercing means; a hingedly mounted clamping lever engaging the upper arm of said yoke member and acting upon said spring member, and means for retaining said clamping lever.

1,472,472. PROCESS OF MAKING SOAP POWDER. JOHN CHARAVELLE INGRAM, Chicago, Ill., assignor to The American Cotton Oil Company, New York, N. Y., a Corporation of New Jersey. Filed June 28, 1920. Serial No. 392,451. 7 Claims. (Cl. 87—16.)

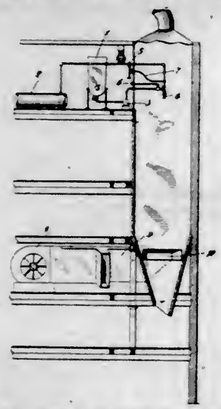


2. The method of producing a soap powder, which comprises disintegrating a soap paste, and cooling the disintegrated particles to a temperature below that of crystallization while the particles are suspended in air in a segregated condition, whereby to provide such particles with a surface or skin of dry soap before the particles are massed, to prevent sticking of the particles to each other.

1,472,473. FINELY-DIVIDED SOAP AND METHOD OF MANUFACTURING THE SAME. JOHN CHARAVELLE INGRAM, Chicago, Ill., assignor to The American Cotton Oil Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 11, 1920. Serial No. 402,896. 7 Claims. (Cl. 87—16.)

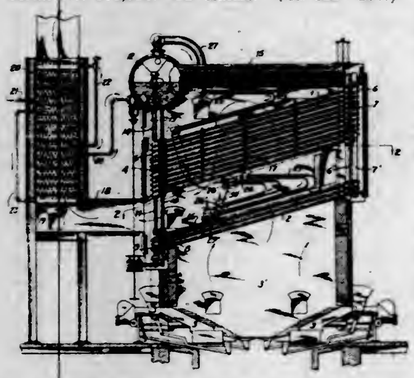
1. In the production of soap powder, the step which comprises effecting the disintegration and aeration of

the soap by an atomizing or spraying operation, and the further step of delaying the collecting of the disintegrated



particles together, until a protective skin coating is formed on said particles.

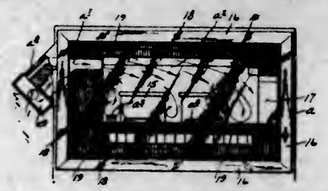
1,472,474. STEAM BOILER. DAVID S. JACOBUS, Jersey City, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Original application filed Apr. 15, 1919, Serial No. 290,180. Divided and this application filed Dec. 23, 1922. Serial No. 608,716. 11 Claims. (Cl. 122—297.)



4. A steam boiler having a furnace arranged to give an unobstructed primary combustion chamber extending the entire distance between the front and rear walls of the furnace, horizontally inclined water tubes extending across the furnace chamber, said tubes being arranged in spaced apart banks and with the lowermost tubes exposed for substantially their entire length to the radiant heat of the furnace, a superheater in the space between the banks of water tubes, a pair of underfeed stoker mechanisms disposed on either side of the central vertical plane of the furnace with their grates inclined toward each other, a horizontal baffle extending from the lower ends of the water tubes longitudinally of the water tubes and above a plurality of rows of said tubes, and a transverse baffling means extending upwardly from the inner end of the longitudinal baffle.

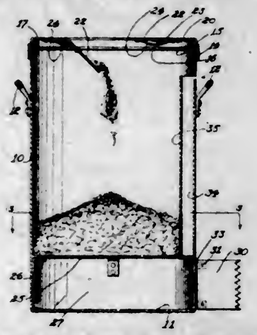
1,472,475. FURNACE SMOKE MODEL OR DEMONSTRATING DEVICE. WAYBURN E. JOHNSTON, Minneapolis, Minn. Filed May 12, 1922. Serial No. 560,516. 9 Claims. (Cl. 35—16.)

1. A demonstrating device comprising a cabinet simulating a chamber having a portion cut away to render the interior visible, said cabinet having inlet and outlet openings, means for passing a visible gas into the inlet opening and out through the outlet opening, means in



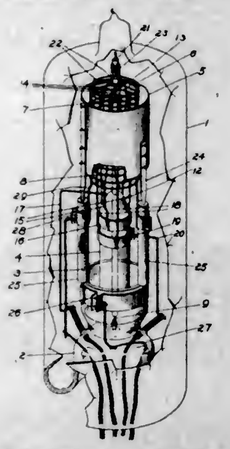
said cabinet affecting the path of said gas therethrough, and a transparent front for said cabinet whereby the path of the gas as affected by said means can be seen.

1,472,476. WASTE TRAP. JOSEPH KENDZIERSKI, Minneapolis, Minn. Filed Aug. 11, 1921. Serial No. 491,355. 1 Claim. (Cl. 43—69.)



A container made in the form of a cylindrical can having a compartment in its base, a chamber thereabove, a walled passage leading unobstructedly from said compartment to the uper part of said chamber, said passage having opposed walls spaced relatively closely together, and a cover over the chamber.

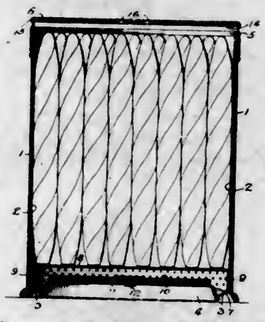
1,472,477. ELECTRON-DISCHARGE DEVICE. ROBERT W. KING, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 14, 1919. Serial No. 317,596. 16 Claims. (Cl. 250—27.)



4. A vacuum tube device comprising an electrode, and a rod of lavite extending through said electrode along the axis of said tube, and means on said rod for clamping said electrode thereto.

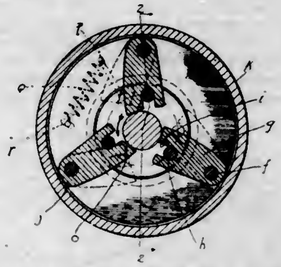
8. A vacuum tube device comprising a grid electrode, a standard inside of said grid, a standard outside of said grid, and supporting connections between said standards and said grid.

1,472,478. HUMIDOR. HENRY M. KREH, Haddon Heights, N. J. Filed Feb. 27, 1920. Serial No. 361,875. 3 Claims. (Cl. 131—30.)



1. A humidor comprising a cylindrical casing with an opening at each end, a permanently attached wall at one end of said casing in which one of said openings is formed; said wall having an internally disposed flange surrounding the opening formed therein, detachable closures for each end of said casing; one of said closures being externally applied while the other closure is internally applied and is in tight frictional engagement with the flange surrounding the opening in said end wall of the casing, and a moistening pad secured to said internally applied closure and removable therewith.

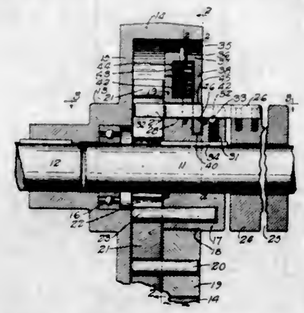
1,472,479. CLUTCH. WALDEMAR L. LINDGREN, Chicago, Ill., assignor of one-half to John E. Ericsson, Chicago, Ill. Filed Aug. 4, 1921. Serial No. 489,681. 7 Claims. (Cl. 192—41.)



3. In a clutch, the combination with a rotatable driving member, of an annular driven member concentric therewith, a ring interposed between the two members, a clutch dog pivoted on the ring near its outer end, which end is eccentric to the pivot and so shaped that when it is swung to clutching position it wedges between its pivot and the inner periphery of the driven member, and an element carried by the driving member cooperating with a slot in the clutch dog to swing the latter to clutching position when the driving member is rotated in one direction and to unclutching position when it is rotated in the other.

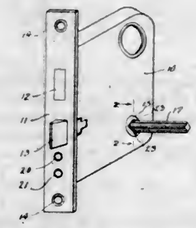
1,472,480. CLUTCH. WALDEMAR L. LINDGREN, Chicago, Ill., assignor of one-half to John E. Ericsson, Chicago, Ill. Filed Mar. 18, 1922. Serial No. 544,953. 11 Claims. (Cl. 192—43.)

8. In a clutch, the combination with a rotatable driving member, of an annular driven member concentric therewith, a ring interposed between the two members and capable of movement relative to either of them, a plurality of clutch dogs pivoted on the ring and having their clutching ends adapted to engage the inner periphery of the driven member when swung out from neutral position, a corresponding plurality of elements carried by the



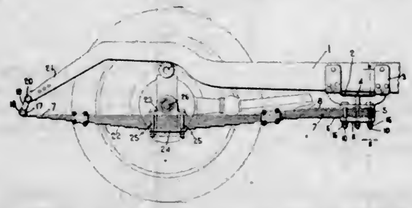
driving member adapted to swing the clutch dogs to clutching position when the driving member is rotated by its initial movement relative to the ring, and means for swinging the dogs to unclutching position without stopping the driving member.

1,472,481. LATCH SPINDLE. HENRY S. LOCKWOOD, South Norwalk, Conn., assignor to The Lockwood Manufacturing Company, South Norwalk, Conn., a Corporation of Connecticut. Filed July 26, 1921. Serial No. 487,587. 9 Claims. (Cl. 292—358.)



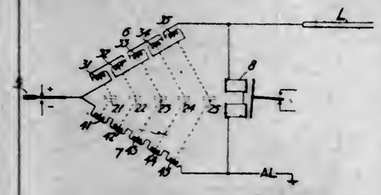
1. In combination, a movable latch, a latch spindle comprising two sections swiveled together, and an operative connection between one of the spindle sections and the latch, one of said sections being provided with one or more stops struck up therefrom and arranged to position the spindle relative to the said operative connection.

1,472,482. SPRING CONSTRUCTION FOR VEHICLES. RALPH M. LOVEJOY, Meredith, N. H. Filed July 2, 1920. Serial No. 393,536. 10 Claims. (Cl. 267—50.)



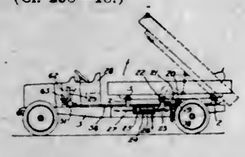
1. A spring construction comprising a series of superimposed leaves, a layer of fibrous anti-friction material interposed between the adjacent leaves and means engaging the edges of said leaves at intervals and for preventing lateral displacement of said fibrous material.

1,472,483. TELEGRAPH SYSTEM. ROBERT C. MATHES, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 21, 1919. Serial No. 332,258. 4 Claims. (Cl. 178—60.)



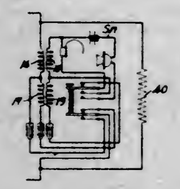
1. The method of winding the ratio arms of a duplex telegraph set which consists in forming the winding of each arm in a plurality of sections and arranging the sections of the two arms alternately with respect to each other whereby the sections of one arm aid the sections of the other arm under certain conditions and oppose under other conditions.

1,472,484. DUMPING WAGON. HENRY MAYER, Arbon, GUSTAV SCHLATTER, Steinach, and PAUL BORCKLY, Arbon, Switzerland, assignors to Societe Anonyme Adolphe Saurer, Arbon, Switzerland, a Corporation of Switzerland. Filed Oct. 5, 1920. Serial No. 414,840. 15 Claims. (Cl. 298—18.)



1. In a dumping wagon, the combination of a frame, a body detachably connected to one of said two named elements, four supporting joints for the body, and locking devices operable selectively to lock said supporting joints in pairs in position while unlocking the remaining two joints.

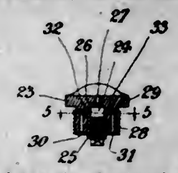
1,472,485. TELEPHONE SYSTEM. JOSEPH B. MORRILL, St. Louis, Mo., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 11, 1920. Serial No. 429,893. 8 Claims. (Cl. 178—44.)



2. The combination with a line having a plurality of substations in bridge thereof, the electrical length of said line being such that standing waves tend to interfere with transmission, of means to prevent the formation of standing waves.

1,472,486. NEBULIZER OF LIQUIDS. ALBERT W. MOZAN, Long Island City, N. Y. Filed Feb. 10, 1921. Serial No. 443,941. 3 Claims. (Cl. 299—114.)

1. A nebulizer of liquids comprising a structure having in combination a small centrifugal chamber closed at one end and having a small outlet at its other end, orifices admitting a liquid to whirl in the said centrifugal chamber toward said small outlet, and a slot in the discharge side of the said nebulizer, the said small outlet terminating in the said slot, and a frusto-spherical projection at the discharge side of the nebulizer, the said slot extending across the said projection.

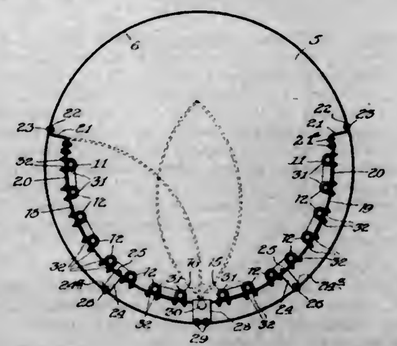


1,472,487. OIL-WELL SWAB. EDGAR T. MURRAY, Fort Worth, Tex. Filed June 27, 1922. Serial No. 571,136. 6 Claims. (Cl. 166—19.)



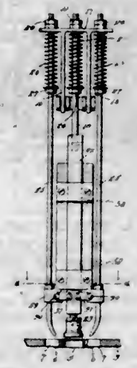
1. In a device of the class described, a body, a hollow mandrel depending from said body, the said body having a bore in communication with said mandrel and laterally disposed openings establishing communication between the bore and the exterior of the body, a valve in said bore, and means carried by the body whereby the said valve will be unseated when the body is moved in one direction.

1,472,488. TANK CAR. AXEL M. NELSON, Chicago, Ill., assignor to General American Tank Car Corporation, Chicago, Ill., a Corporation of West Virginia. Filed July 23, 1921. Serial No. 487,091. 2 Claims. (Cl. 257—200.)



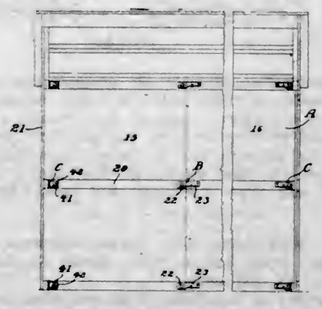
2. A cylindrical tank containing bracket structures located at opposite sides of the center line of the tank and each comprising a plurality of curved arms spaced apart and extending adjacent the curved sides of the tank, means hingedly connecting said bars at their lower ends to said tank, and separate radiator coils extending lengthwise of the tank and crosswise of said bars and carried by the latter.

1,472,489. CRIMPING DEVICE FOR BOTTLE-CAPPING MACHINES. ELOF NORDSTROM, Newark, N. J., assignor, by mesne assignments, to American Dan Bottle Seal Corporation, a Corporation of Delaware. Filed Aug. 25, 1919. Serial No. 319,610. 4 Claims. (Cl. 226—86.)



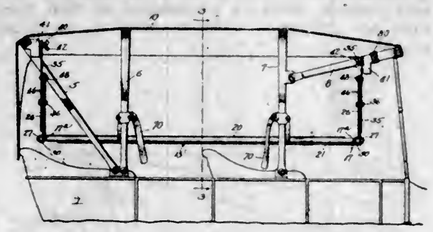
1. In a machine of the character described, a power driven cross-head, a cap-applying plunger reciprocable in said cross-head and provided with means for yieldably resisting such reciprocable movement, crimping elements reciprocable in said cross-head under yieldable pressure, and links articulately connecting said crimping elements to said plunger for converting reciprocating movements into inwardly deflected crimping movements after the plunger has been arrested by the vessel to be capped.

1,472,490. JOINT FOR PORTABLE SECTIONAL BUILDINGS. EMMETT L. OAKES, Akron, Ohio, assignor to The Superior Building Company, Akron, Ohio, a Corporation of Ohio. Filed Feb. 24, 1922. Serial No. 538,976. 5 Claims. (Cl. 20—92.)



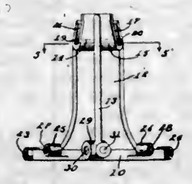
1. A coupling device for the sections of a portable sectional building construction including a pair of companion members, one of said members including an attaching face plate, an outwardly extending stud, and a retaining plate formed on the outer end of the stud, the other companion member including an attaching shank and a head, said head offset from the shank substantially the thickness of the said attaching face plate, and said head arranged to fit between the attaching plate and the retaining plate, the lower end of the head having a notch formed therein to receive said stud.

1,472,491. BED FOR AUTOMOBILES, BOATS, ETC. WALLACE PECK, Brooklyn, N. Y. Filed Jan. 16, 1922. Serial No. 529,418. 12 Claims. (Cl. 5—118.)



1. The combination of a collapsible bed adapted to be supported above the seats in a covered vehicle, with supports pivotally connected with said bed, and mounting means pivotally engaging said supports, said mounting means being constructed for attachment to a vehicle top, whereby said bed can be suspended from the vehicle top in open position or be collapsed and rolled into compact form upon said supports and moved into storage position beneath the vehicle top.

1,472,492. BOBBIN STAND FOR BRAIDING MACHINES. ANKER PETERSEN, Winthrop, Mass. Filed Aug. 16, 1922. Serial No. 582,164. 10 Claims. (Cl. 96—5.)



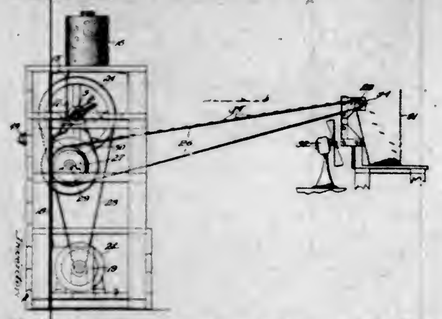
9. A bobbin stand for braiding machines of that type having a series of bobbins comprising bearings for adjacent ends of the spindles of adjacent bobbins of the series, and means for supporting a thread tension device for one of said bobbins.

1,472,493. INGOT-MOLD BOTTOM PLATE. RALPH S. POLSTER, Canton, Ohio, assignor to United Alloy Steel Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 1, 1922. Serial No. 585,662. 4 Claims. (Cl. 22—95.)



1. A mold having an aperture in its bottom, and a plate seated on the rim of the aperture and having a plug secured thereto fitting into the aperture.

1,472,494. APPARATUS FOR USE IN MANUFACTURING CONDENSERS. WILLIAM H. PRESS, Belmont, Mass., assignor to Wireless Specialty Apparatus Company, Boston, Mass., a Corporation of New York. Filed Apr. 30, 1920. Serial No. 377,978. 24 Claims. (Cl. 91—45.)

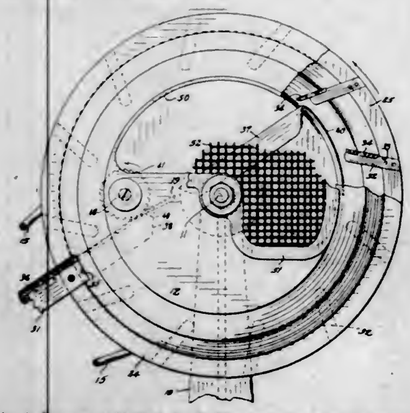


18. A varnishing machine for sheets of mica and the like, comprising a pair of contacting rolls, the axes of which lie in a plane at an angle to the vertical and horizontal, down between which rolls the sheets can be fed to be coated; and a conveyor belt extending to a position underneath the line of contact between the rolls to receive the wet sheets falling from beneath the rolls and remove them from the vicinity thereof.

21. An improved varnishing machine for mica sheets and the like, including a pair of spring-pressed rolls defining a trough, a conveyor belt passing under said rolls to a point adjacent the end of the machine and means co-operating with said belt to remove the varnished sheets from the belt.

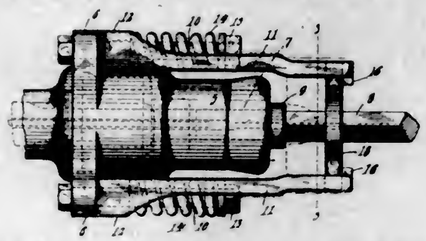
22. An improved varnishing machine for mica sheets and the like, comprising a varnish trough, means for feeding mica sheets downward through the bottom of said trough, an inclined conveyor belt located below said trough and extending to a point above the varnish trough, and means associated with said conveyor belt for causing a sharp change in the direction of travel thereof, whereby the varnished mica sheets will be snapped off the belt.

1,472,495. HOPPER. WILLIAM B. RUNK, Shelton, Conn., assignor to The Weimann Brothers Manufacturing Company, Derby, Conn., a Corporation of Connecticut. Filed Oct. 14, 1922. Serial No. 594,527. 15 Claims. (Cl. 113—113.)



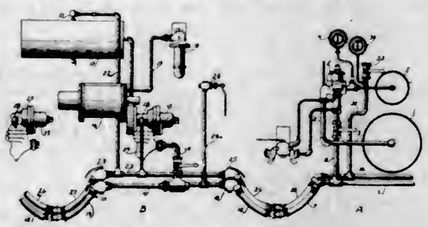
1. A hopper adapted to hold a supply of substantially U-shaped clips, a chute leading from the hopper and adapted to convey the clips therefrom, a plurality of fingers in the hopper arranged so that the clips may embrace one edge thereof, and means for bringing the fingers into position to allow the clips to slide therefrom under the action of gravity to the chute.

1,472,496. TOOL RETAINER. PETER SCHEIB, Denver, Colo., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo., a Corporation of Delaware. Filed Nov. 22, 1917. Serial No. 203,442. 12 Claims. (Cl. 121—32.)



1. The combination with a tool holder, of spaced yielding supporting arms extending longitudinally of the tool holder and capable of yielding lateral movement toward and from each other, mountings for the arms, and a tool retainer mounted on the arms between the same and movable thereon to and from an operative position with respect to a tool placed in the tool holder, said retainer and arms having coacting interfitting portions that secure the retainer in its operative position and the said lateral movement of the arms permitting the said portions to interlock and be disengaged.

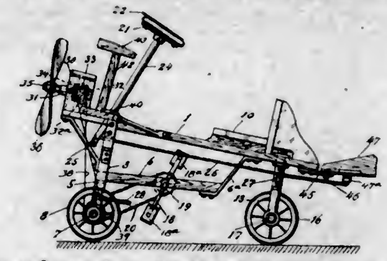
1,472,497. AIR BRAKE. EDMOND P. SCHOLES, San Jose, Calif., assignor of one-half to Jessie B. Sterling, New York, N. Y. Filed Feb. 1, 1922. Serial No. 533,456. 2 Claims. (Cl. 303—76.)



1. In combination, a main air pressure line an air supply therefor, a triple valve, a brake cylinder and an auxiliary air reservoir operatively connected thereto, and a pop-off valve arranged on said auxiliary reservoir, a second air pressure line, a conduit connecting said pop-off valve and said second air line, and a conduit connecting said triple valve and said second air line.

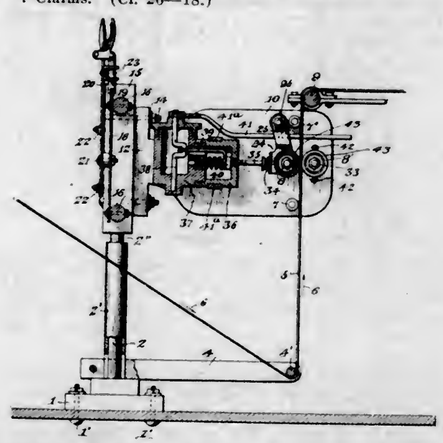
1,472,498. WHEELED TOY. JOSEPH SHUBERT, Braddock, Pa. Filed Oct. 3, 1921. Serial No. 505,204. 1 Claim. (Cl. 208—42.)

A riding toy in the form of an aeroplane comprising a body portion having a seat intermediate its ends, wings projecting laterally from said body adjacent its forward end, a rudder member pivotally mounted at the rear end of said body, a pair of combined supporting and tractor wheels mounted on an axle journaled in downwardly extending legs adjacent the forward end of said body, a single combined supporting and steering wheel mounted on a pivoted post adjacent the rear end of said body, means connecting said post and said rudder member to cause unison of movement thereof, a propeller wheel mounted on a horizontal shaft journaled in the forward end of said body, a crank shaft journaled in said body at a point below said seat and intermediate the seat and the tractor wheels, pedals on said crank shaft to provide for the rotation of said shaft by the operator when in the seat, a sprocket on said crank shaft, a second sprocket on said tractor wheel axle, an endless drive chain trained over said sprockets, a countershaft journaled in said



body and geared to said horizontal propeller shaft, a flexible driving connection between said tractor wheel axle and said countershaft, a steering post positioned forward of said seat and adapted to be controlled by the operator, and a rigid connecting rod pivotally connected to said steering post and said pivoted steering wheel post, all substantially as shown and for the purposes described.

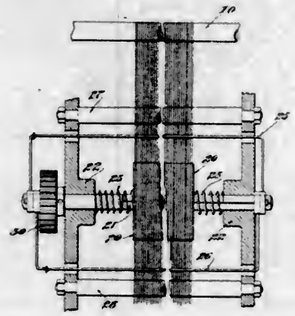
1,472,499. FEEDER FOR TENTERING MACHINES. HENRY A. SMART and WILLIAM H. H. COCKE, Jr., Danville, Va. Filed Apr. 13, 1922. Serial No. 552,437. 7 Claims. (Cl. 26—18.)



1. In an apparatus of the class described, a frame including spaced vertical members, a support swingingly mounted on each of said vertical members, means for rotatively adjusting said supports on said vertical members, a stationary roller carried by each of said supports, and a movable roller yieldably engaged with each of said supports, and between which and the stationary rollers a web of cloth is adapted to be drawn.

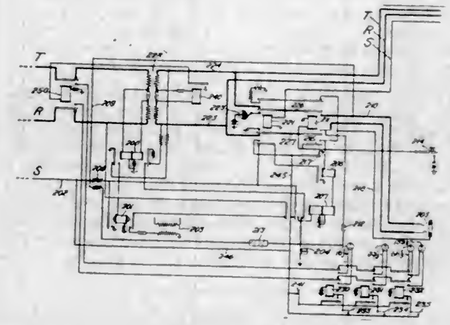
1,472,500. WARP STOP MOTION FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Hopedale Manufacturing Company, Milford, Mass., a Corporation of Massachusetts. Filed Aug. 27, 1919. Serial No. 320,147. 10 Claims. (Cl. 139—352.)

1. A warp stop motion for looms having, in combination, detecting devices through which the warp threads normally pass, means for moving the detecting devices during the normal operation of the loom, the detecting devices having provision for engaging a broken warp



thread to lift the same as the detecting devices are moved, and means actuated by movement of the broken warp thread for causing loom stoppage.

1,472,501. MACHINE-SWITCHING TELEPHONE-EXCHANGE SYSTEM. RAY L. STOKELY, Floral Park, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 8, 1920. Serial No. 429,164. 9 Claims. (Cl. 179—27.)

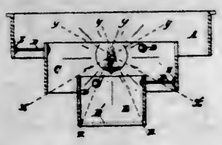


1. In a telephone system, the combination of subscribers' lines, a trunk line having long distance transmission equipment included therein, two positions at each of which said trunk terminates, a signal for said trunk at one of said positions, automatic switches for extending a subscriber's line to said trunk, means for thereupon operating said signal, a cord circuit at the position where the signal is located, means for associating the said cord circuit with said trunk, a cord circuit at the other position, means for associating the same with said trunk and automatically disconnecting the first cord circuit therefrom, and means controlled from said other position for extending the call in the direction of the desired line.

1,472,502. LAMP SHADE. ERNEST H. STRAUSS, Chicago, Ill. Filed Apr. 12, 1920. Serial No. 373,449. 2 Claims. (Cl. 240—93.)

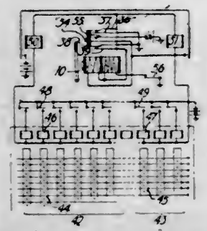
1. In a lamp-shade, a sectional diffuser comprising a central and a series of successively larger band-like members of translucent material arranged concentrically to intercept and diffuse all direct rays impinging thereon from the source of the light, and spaced from one another to afford relatively unimpeded passages for reflected rays,

and separable means on the opposite faces of said members to span the spaces and hold said members in their proper relative positions, the walls of said members being vertical so that said spaces may be as wide as possible,



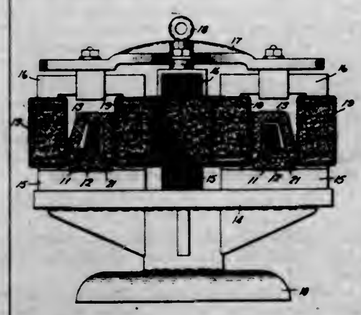
and said means being so constructed that the diffuser may be demounted by simply lifting said members out of position one after another, beginning with the innermost, and assembled by reversing the process, substantially as described and shown.

1,472,503. SWITCHING DEVICE. HERBERT B. TAYLOR, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 20, 1922. Serial No. 569,650. 7 Claims. (Cl. 179—125.)



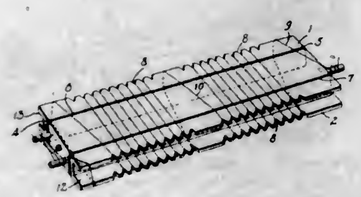
1. The combination with a plurality of groups of lines, of a switching mechanism having an individual switching element for each line, a common operating member, selecting devices individual to said switching elements for connecting the same to the common operating member, a controlling device for each group of lines, each controlling device arranged for operation with the operation of any selecting device of the corresponding group, and means controlled jointly by said controlling devices for rendering said operating member effective.

1,472,504. ELECTRIC HEATER. ELIHU THOMSON, Swampscott, Mass., assignor to General Electric Company, a Corporation of New York. Filed Mar. 15, 1921. Serial No. 452,474. 5 Claims. (Cl. 219—11.)



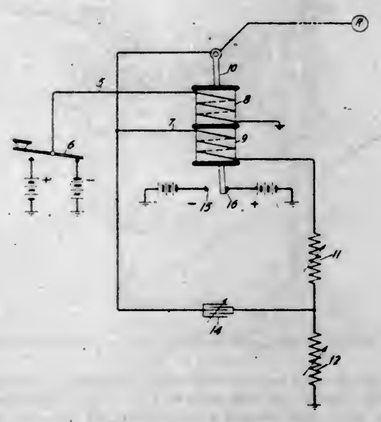
1. In an induction heater, the combination with a workpiece forming a closed loop of electrically conducting material, of a plurality of magnetic core members forming a plurality of closed magnetic flux circuits interlinking with said workpiece, energizing coils for said magnetic flux circuits having their centers above the center of said workpiece, and means for opening the magnetic flux circuits so that the workpiece can be removed.

1,472,505. METHOD OF MAKING ELECTRODES. RUSSELL F. TRIMBLE, Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 16, 1920. Serial No. 374,418. 12 Claims. (Cl. 140—71.)



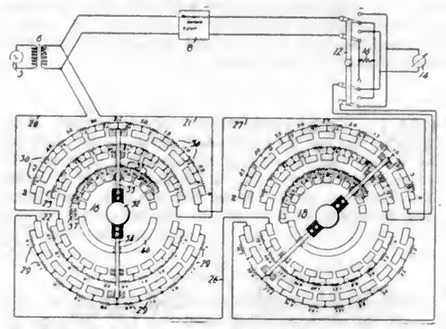
1. The method of making an electrode having opposed surfaces which comprises forming an extended electrode surface and bending said extended surface to provide said opposed surfaces.

1,472,506. TELEGRAPH SYSTEM. CHARLES O. VAN DER VORT, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 24, 1920. Serial No. 405,666. 3 Claims. (Cl. 178—70.)



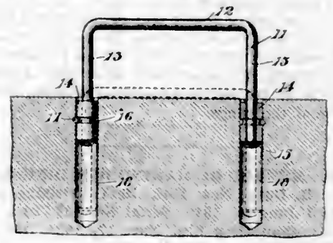
1. In a telegraph system the combination of an incoming telegraph line, a relay connected thereto comprising a line winding, an armature serving as the core of said winding, current supply contacts cooperating with said armature, a local circuit including a winding arranged to produce a magnetic effect sufficient to move said armature, and a condenser serving upon the initial engagement of said armature with either of said contacts to retain said armature in its actuated position, but subsequently responsive to a diminution in the current in said line winding to act on said local winding during its entire discharge period irrespective of the position of the armature.

1,472,507. ARTIFICIAL LINE. HARALD J. VENNES, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 28, 1921. Serial No. 525,434. 5 Claims. (Cl. 178—44.)



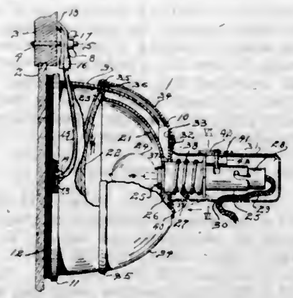
1. An artificial line comprising two series adjustable impedances and an intermediate shunt adjustable impedance, and means for simultaneously adjusting said impedances.

1,472,508. BOX HANDLE. JACOB HENRY BECKMAN, Oakland, Calif. Filed June 28, 1922. Serial No. 571,580. 2 Claims. (Cl. 16—110.)



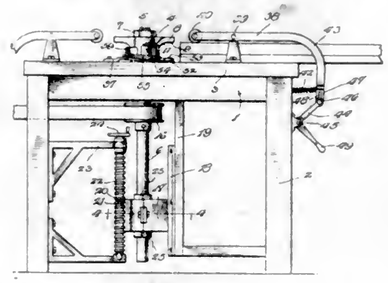
1. A handle for boxes and the like comprising a handle loop having parallel shanks, sliding sleeves, through which the shanks extend, means for preventing removal of the handle from said sleeves, and means for locking the sleeves within holes formed in a wall of the box or like structure.

1,472,509. SPOTLIGHT MOUNTING. REUBEN H. BITTER, Toledo, Ohio, assignor to The Thal & Bitter Co., Toledo, Ohio, a Firm. Filed June 24, 1922. Serial No. 570,622. 9 Claims. (Cl. 240—61.)



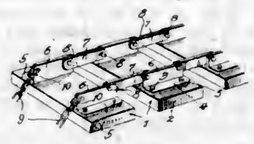
9. A bracket embodying a first curved zone member, a second supplementing outer curved zone member, an outwardly protruding tubular portion rigid with the second zone member to provide a handle, and a lamp carried within the first zone member by the second zone member, said second zone member having its center of curvature forwardly of which the first zone member extends with the diameter of the second zone member at said center of curvature as a maximum for said extension.

1,472,510. MACHINE FOR SHAPING TONG HANDLES. CHARLES D. BRIDDELL, Crisfield, Md. Filed Aug. 5, 1922. Serial No. 579,916. 3 Claims. (Cl. 144—145.)



1. In a wood-working machine, the combination of a cutter, a stationary support over which work may be fed in contact with the cutter, a rocking frame fulcrumed upon the support and having one end extending beyond the support and downwardly at the side thereof, a presser member carried by the opposite end of the said frame and adapted to bear upon the work adjacent the cutter to hold the work to the support, an expansion spring secured to and disposed between the lower end of the rocking frame and the side of the support, and an angle lever fulcrumed upon the side of the support and having an upwardly extending arm attached to the downwardly extending end of the rocking frame, the other arm of said lever being free and extending downwardly.

1,472,511. TRACTION APPLIANCE FOR VEHICLE WHEELS. SAMUEL E. BROOMALL, Wilmington, Del. Filed Dec. 1, 1921. Serial No. 519,180. 3 Claims. (Cl. 152—14.)

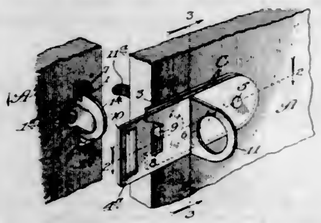


1. A traction appliance comprising a series of tread shoes, brackets secured to the upper faces of the shoes and each provided with an upstanding rigid wing extending the full width of the shoe, and rigid links pivoted to the wings of the brackets of adjacent shoes to flexibly connect the same, the said links being disposed flat against the wings of the brackets whereby to inhibit lateral flexing of the series of shoes and the links and the brackets forming a continuous guide for a wheel riding the shoes.

1,472,512. HASP. GUSTAV A. CARLSON, Chicago, Ill., assignor to The Boye Needle Company, Chicago, Ill., a Corporation of Illinois. Filed May 27, 1922. Serial No. 564,027. 2 Claims. (Cl. 292—281.)

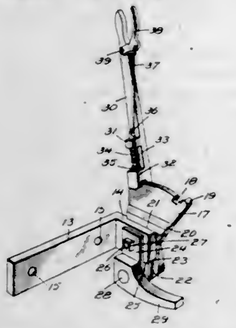
1. A device of the character set forth, comprising a sheet- metal keeper punched, sheared, and bent and affording a base portion provided with a projecting central screw-receiving ear and a padlock loop projecting at right angles to the base portion, the base portions of said loop flanking the base portion of said ear and the

upper edge of said loop being provided with a recess; and a pivotally mounted latch-engaging member having its free end portion provided with a transverse slot



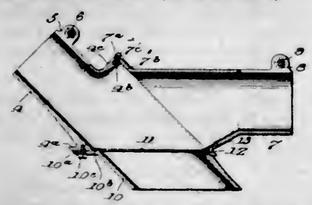
adapted to receive said padlock loop, the end wall of said slot serving to latchingly engage the recess of said keeper.

1,472,513. CLUTCH-PEDAL-OPERATING DEVICE. HENRY O. CONRAD, Bear Grove Township, Guthrie County, Iowa. Filed Oct. 21, 1922. Serial No. 596,056. 4 Claims. (Cl. 74—39.)



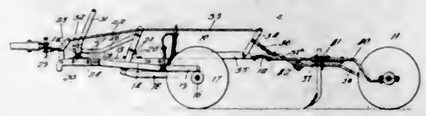
1. A device for the purpose set forth comprising an L-shaped supporting member, a toothed plate positioned against and depending from one of the legs of said member, a hanger arm positioned against and depending from said leg of said member, means for clamping said arm and said plate to said leg of said ember, a shaft journaled in said arm and plate below said leg, a lever having its lower end pivotally connected to one end of said shaft and carrying a spring controlled locking dog engaging the said plate, and a curved clutch pedal actuating foot carried on the other end of said shaft and projecting rearwardly therefrom.

1,472,514. MUFFLER CUT-OUT. WILLIAM H. CRYAN, Woonsocket, R. I., assignor of one-half to George F. Verhulst, one-sixth to Romeo J. Danis, one-sixth to William F. Fox, and one-sixth to Harold B. Findlay, all of Woonsocket, R. I. Filed Mar. 5, 1921. Serial No. 449,628. 15 Claims. (Cl. 251—118.)



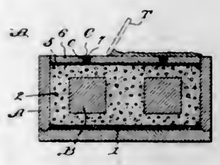
1. A cut out for internal combustion engines comprising a first separable part constituting the exhaust receiving member, a second separable part having an unobstructed passageway and constituting a muffler discharge member, a third separable part having a single straight opening therethrough and constituting a direct discharge to air member, a valve adapted to be moved to close off communication from said exhaust receiving member to either said second or said third separable parts for regulating the direction of discharge of exhaust gases, and means for holding said first, second, and third separable parts in fixed assembled relation.

1,472,515. GANG-ADJUSTING DEVICE FOR HARROWS. HARRY S. DICKINSON, Moline, Ill., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Filed Nov. 6, 1919. Serial No. 336,090. 16 Claims. (Cl. 55—83.)



1. A tandem disk harrow having a front pair of gangs, a rear pair of gangs, draft mechanism to which the gangs are connected so that they may be set at various angles to the line of draft, and means associated with the draft mechanism and connected with the gangs movable to various positions to set the angle of the gangs relative to the line of draft, said means being adapted to be connected to a tractor or the like so that when it is pulled forward by a tractor, it is set to a position for a working angle for the gangs, and, when pushed backward by a tractor or the like, it is set to a position for transport angle of the gangs.

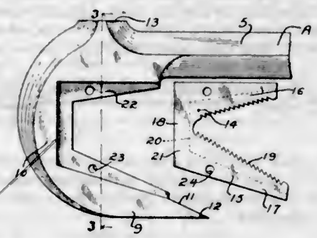
1,472,516. METHOD OF MAKING BUILDING BLOCKS. ROBERT B. DULA, New York, N. Y. Original application filed June 12, 1919, Serial No. 303,710. Divided and this application filed Nov. 17, 1921. Serial No. 515,777. 9 Claims. (Cl. 18—61.)



1. The method of making a structure used for building or the like, which consists in first providing a body of masonry material, in placing a pattern member on said masonry body, in imposing a layer of contrasting masonry material over said body, in finishing the surface of said layer, and in then removing the pattern, whereby is provided a patterned masonry layer with parts of a contrasting masonry body exposed.

1,472,517. WRECKING TOOL. PATRICK H. FRY, Wheeling, W. Va., assignor of one-fourth to Charles F. Kelsey, George H. Mahlstedt, and Roy H. Mook, all of Fort Worth, Tex. Filed Jan. 26, 1922. Serial No. 531,919. 2 Claims. (Cl. 81—185.)

2. A tool of the class described comprising a handle, a U-shaped head at one end of the handle, one side wall of the head constituting a portion of the handle, upstanding ribs on the inner walls of the head, a removable jaw for insertion in the head including angularly related side walls, and spaced flanges on the jaw to engage opposite faces of the ribs and having toothed active faces, and



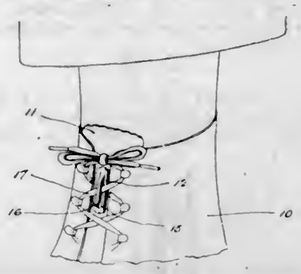
means extending through the flanges and ribs for retaining the jaw against movement in relation to the head and handles.

1,472,518. METAL JOINT. ROBERT T. GILLETTE, Schenectady, and JAY L. BUTTERFIELD, Alplaus, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Aug. 23, 1920. Serial No. 405,458. 3 Claims. (Cl. 50—75.)



1. A steel body having a seam provided with steel reinforcing means extended across the same and a binder of cupreous material securing the edges of the seam together and also securing the reinforcing means to the body, said binder being formed by causing molten copper to flow into contact with the parts to be joined in an atmosphere of hydrogen.

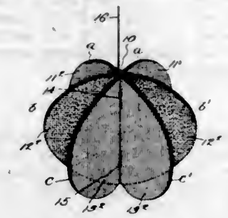
1,472,519. SHOE-TONGUE CLIP. ELMER R. GINGRICH, Lancaster, Pa. Filed May 6, 1922. Serial No. 558,909. 1 Claim. (Cl. 24—117.)



A shoe tongue clip comprising a body member arranged vertically on said tongue, bendable prongs projecting from the ends of said body member and adapted to penetrate the tongue to hold the clip positioned thereon, a resilient finger stamped from the body member and arranged longitudinally thereof with the lower end of the finger free to allow the lace to be passed beneath the same, and said body member being elongated to fit snugly between the meeting edges of the shoe upper adjacent the top thereof.

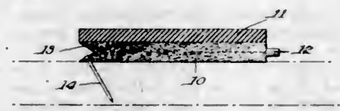
1,472,520. ORNAMENT FOR CHRISTMAS TREES OR THE LIKE. GERHARDT E. GRIMM, New York, N. Y. Filed Nov. 15, 1921. Serial No. 515,255. 20 Claims. (Cl. 41—11.)

1. A new article of manufacture for use as a Christmas tree decoration or the like, comprising an ornament including a plurality of wings or leaves movable relatively to each other about a common axis to assume radial positions about such axis to simulate the appear-



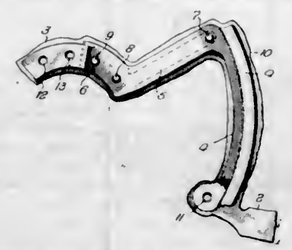
ance of a three dimensional object; the said leaves being movable from such radial positions to collapsed condition.

1,472,521. BUILDING ELEMENT. MARION M. HARRISON, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 26, 1922. Serial No. 584,578. 2 Claims. (Cl. 154—45.9.)



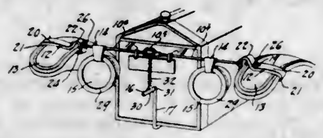
1. A building element having a portion thereof of hard sponge rubber.

1,472,522. METHOD OF MAKING FORGED TRACTOR GEARS. RAYMOND HENRY, Rock Island, and WARREN M. MANSFIELD, Moline, Ill., assignors, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Filed Mar. 16, 1921. Serial No. 452,749. 5 Claims. (Cl. 29—159.)



1. The method of making a forged gear having more than two spokes which comprises forging a spoke with a hub portion on one end and a peripheral or rim portion on the other, assembling a plurality of said sections of sufficient number to make a complete gear, and fastening the sections together.

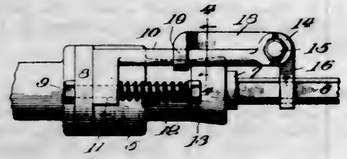
1,472,523. COMBINATION FENDER AND LAMP BRACE. ROY J. E. HICKS, Bay City, Tex. Filed Dec. 30, 1922. Serial No. 609,910. 1 Claim. (Cl. 240—57.)



In combination with a vehicle including headlights and wheel fenders, a bar extending transversely of the forward end of the vehicle and provided at its ends with

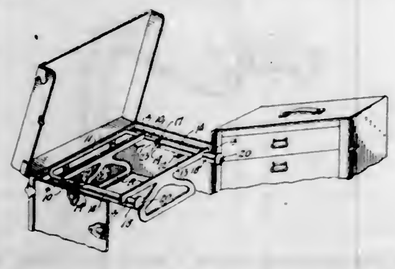
means for engaging said fenders to hold the same against movement, and means carried by said bar adjacent each end thereof having at its lower end a clamp for releasably engaging the adjacent headlight comprising a plate rotatably mounted upon the bar and having at its free end a spring clamp adapted for engagement in the flange rim of the headlight.

1,472,524. STEEL PULLER. WILLIAM HOSKIN, Denver, Colo., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo., a Corporation of Delaware. Filed Jan. 8, 1918. Serial No. 210,913. 8 Claims. (Cl. 121—82.)



1. The combination with tool holding means, of a retainer comprising a forwardly yielding support, a tool engaging element mounted on the support and movable thereon to and from an operative position to be engaged by a tool placed in the tool holding means, and locking means offset from the tool engaging element and extending longitudinally of the support for holding the same in its said operative position.

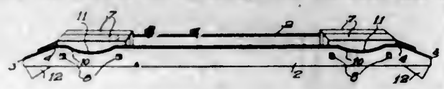
1,472,525. CLOTHES-HANGER SUPPORT FOR WARDROBE TRUNKS. THOMAS M. HOUSE, Richmond, Va., assignor to Richmond Pressed Metal Works, Inc., Richmond, Va., a Corporation of Virginia. Filed June 19, 1922. Serial No. 569,255. 2 Claims. (Cl. 211—16.)



1. A hanger support comprising an outwardly projecting rod and a sleeve telescopically engaging the rod, the sleeve being formed of thin metal approximately circular in cross section to embrace the rod, the edges of the sleeve being spaced from each other and downwardly flanged, the sleeve at its rear end being formed with a recess, the inner end of the recess being transverse to the length of the sleeve, the lateral walls of the recess being convexly rounded to form ears, said ears extending vertically upward, the apices of the ears being disposed slightly above the rod.

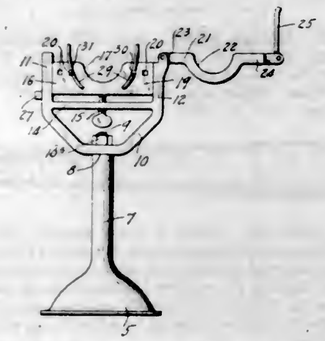
1,472,526. METALLIC RAILWAY CROSSTIE. JACOB A. HYLE, Philadelphia, Pa., assignor to Tri-City Steel Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 11, 1922. Serial No. 593,748. 2 Claims. (Cl. 238—58.)

1. A metallic railway tie of the character described, comprising two right angle steel sections, each section being formed with an upright member and an inwardly extended base portion, blocks of hard wood disposed between said sections near each end thereof, means for firmly securing said blocks to said sections, a concave recessed portion formed in each upright member near each end thereof, and a depending extension formed from the base portion and extending from the outer side of



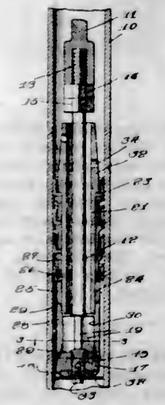
each of said blocks to the outer end of each section adapted to form a V-shape opening between said sections for the reception of road ballast, and to project into the road bed.

1,472,527. HOOF HOLDER. GEORGE W. JONES, Gum Neck, N. C. Filed Apr. 18, 1922. Serial No. 554,567. 3 Claims. (Cl. 168—44.)



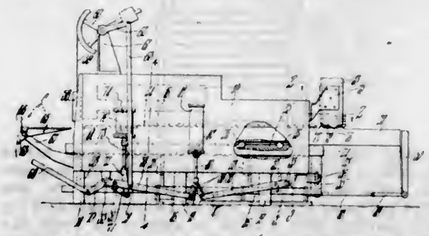
1. A hoof holder comprising a base, a frame movably connected to the base, a supporting member slidably mounted in the frame, means carried by the frame for holding the supporting member in various adjusted positions, and a clamping member hinged to the frame to provide a leg opening, and auxiliary means carried by the supporting member and coacting with the supporting member to hold a hoof.

1,472,528. WORKING VALVE. VINCENT P. KILL, Lawton, and ORRIN J. GASTER, Anadarko, Okla. Filed Feb. 12, 1923. Serial No. 618,611. 5 Claims. (Cl. 103—225.)



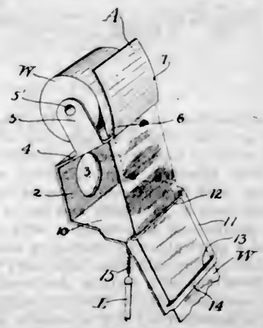
1. In a working valve, a hollow valve barrel, packing elements carried by the barrel, a ring having threaded engagement with the lower end of the barrel and maintaining said packing in position upon the barrel, a sleeve likewise having threaded engagement with the barrel, locking said ring in adjusted position thereon, said sleeve being provided upon opposite ends thereof with valve seats and being reversible in its engagement with the barrel, a stem extending through the barrel bore and capable of limited longitudinal reciprocation therein, and a member carried by the lower end of the stem having a ground face seating on the seat at the lower end of the sleeve when the same is at the upper limit of its travel.

1,472,529. FURNACE. HANNIBAL A. KUNITZ, Springfield, Mass., assignor to Advance Furnace & Engineering Company, Springfield, Mass., a Corporation of Massachusetts. Filed July 1, 1921. Serial No. 481,996. 20 Claims. (Cl. 263—6.)



1. In a furnace, means for feeding a series of articles step-by-step therethrough, and means cooperating therewith for causing the articles to be advanced through an increased distance at the last feed movement imparted thereto but in the same direction as said step-by-step movement.

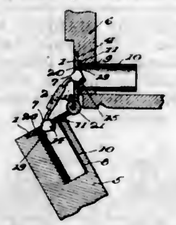
1,472,530. TELEPHONE ATTACHMENT. JESSE MCCOMAS, Los Angeles, Calif. Filed Dec. 12, 1922. Serial No. 606,546. 4 Claims. (Cl. 179—185.)



2. A one-piece device attachable to a telephone transmitter and consisting of a back plate perforated to receive the usual threaded shank of the mouth piece of a transmitter and adapted to be secured to the transmitter shell by said mouth piece, a top bracket having web roll supporting lugs, said bracket having an eye for the web, a web guiding and retaining means to which the web is extended from the roll supporting means and across the mouth piece so that the web covers the mouth piece, and a roll covering element having a front face adapted to receive an advertising medium.

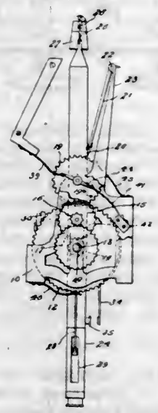
1,472,531. ADJUSTABLE DOORSTOP. GEORGE T. MORRIS, Missoula, Mont., assignor of one-half to Edward J. Adams, Missoula, Mont. Filed May 27, 1922. Serial No. 564,032. 7 Claims. (Cl. 16—82.)

1. A device of the character described comprising a pair of stop plates having openings therethrough in confronting relation, and a connector comprising a rigid stem consisting of two separable sections provided at their remote ends with portions of such size as to be incapable of movement through the openings of the stop plates, said



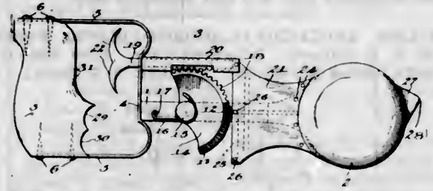
stem being arranged to extend through said confronting openings whereby the extent of movement of the plates apart is limited.

1,472,532. CLOCK MECHANISM. MICHELE PICCIOTTI, Paterson, N. J. Filed Jan. 7, 1922. Serial No. 527,716. 3 Claims. (Cl. 58—30.)



1. The combination with a time mechanism including a pendulum, gearing and means operated by the pendulum for operating the gearing, of an electromagnet, an armature operated thereby, a combined spring arm and contact member carried by the armature and included in circuit with the magnet, a contact member carried by the pendulum and also included in the circuit with the magnet, whereby the latter may be energized to operate the armature and impart motion to the pendulum and means including a rotatably mounted circuit interrrupter operated by the time mechanism gearing, whereby the circuit through the magnet may be automatically opened at stated intervals and for an appreciable period.

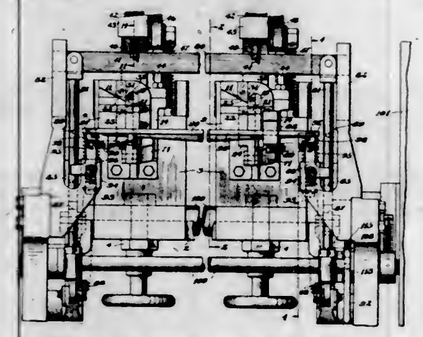
1,472,533. ICE-CREAM DIPPER. WILLIAM R. RIPLEY, Turlock, Calif. Filed Oct. 25, 1922. Serial No. 596,839. 5 Claims. (Cl. 107—48.)



4. In an ice cream dipper, a longitudinal body provided with a bowl at one end thereof, said bowl being substantially hemispherical in form, and a guide lip extending laterally of the bowl at the edge of the latter and

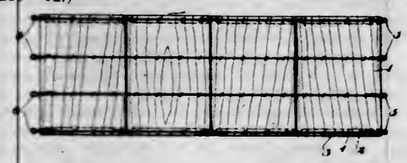
being positioned with the tip thereof terminating slightly at one side of a line extending diametrically across the bowl in alignment with the longitudinal axis of the body.

1,472,534. METHOD OF MAKING BOX PARTS OR BOXES. OSCEOLA C. THOMPSON, Rockaway, N. J., assignor to Wirebounds Patents Company, a Corporation of Maine. Original application filed July 25, 1918, Serial No. 246,772. Divided and this application filed Dec. 9, 1921. Serial No. 521,205. 6 Claims. (Cl. 140—104.)



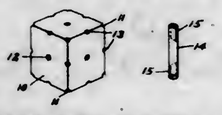
1. A method of making wirebound boxes which is characterized by assembling a box blank having cleats and sheets connected together by binding wire secured thereto, with the sheet at one end of the blank extending beyond the cleat end a distance approximately equal to the thickness of the sheet; by severing the ends of the wire uniform distances from the cleat ends; and by supplying the wire ends with interengageable fastening means at equal distances from their adjacent cleat ends whereby when the blank is folded into box form the fasteners will extend equal distances from the corner edge of the box.

1,472,535. BOX AND METHOD OF MAKING THE SAME. OSCEOLA C. THOMPSON, Rockaway, N. J., assignor to Wirebounds Patents Company, a Corporation of Maine. Original application filed July 25, 1918, Serial No. 246,722. Divided and this application filed Feb. 25, 1922. Serial No. 539,257. 11 Claims. (Cl. 217—12.)



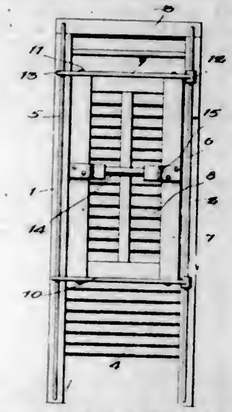
1. In combination, a plurality of wired box sections and means to connect the same comprising a bight having an opening longer than the width of the bight carried by one of said sections, and a similar bight of approximately the same size and shape carried by another section for interengagement with said first mentioned bight.

1,472,536. EDUCATIONAL BUILDING BLOCK. PHILIP W. T. R. THOMSON, Hollywood, Calif. Filed Aug. 31, 1921. Serial No. 497,329. 9 Claims. (Cl. 35—2.)



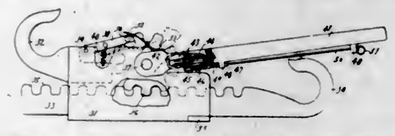
1. An educational device comprising a plurality of cubical blocks each provided in its faces, its corners, and its edges with peg receiving recesses.

1,472,537. WASHBOARD. JAMES G. THORSTENSEN, Clinton, Minn. Filed July 12, 1922. Serial No. 574,353. 2 Claims. (Cl. 68—29.)



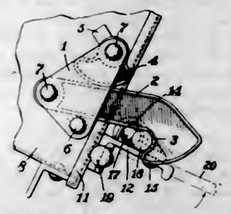
1. The combination with a washboard frame having side rails, a rubbing surface supported by the said side rails, guide rods extending longitudinally on the side rails, a rub board arranged between the side rails, said rub board provided with a plate on each of its lower and upper ends, said plates each having an apertured extension at one end, and a hook portion at its opposite end for slidably mounting the same upon the guide rods, and rubbing means carried by the rub board for engagement with the rubbing surface.

1,472,538. JACK. ENOCH WHALLEY, Williamsett, Mass. Filed Mar. 16, 1922. Serial No. 544,175. 3 Claims. (Cl. 254—66.)



1. The combination, in a jack of the class described, with a body provided with a spindle, and with attaching means for a chain or rope, a rack bar reciprocable in said body, and also provided with attaching means for a chain or rope, said two attaching means being at relatively opposite ends of said body and bar, a gear mounted on said spindle and intermeshing with the teeth on said bar, and a pawl pivotally connected with said body, and adapted to engage said gear, said pawl having a pin projecting therefrom, of a handle also mounted on said spindle, and equipped with a latch to engage said gear, and further equipped with a trip to contact with said pin.

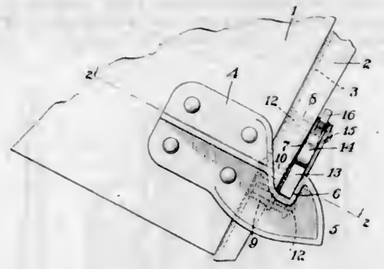
1,472,539. CAR-DOOR-LOCKING DEVICE. WILLIAM E. WINE, Toledo, Ohio. Filed Jan. 10, 1922. Serial No. 528,244. 8 Claims. (Cl. 105—308.)



1. A car door locking device comprising pivoted hooks, said hooks adapted to be secured to the car body, a rod adapted to be mounted on a door, the ends of said rod

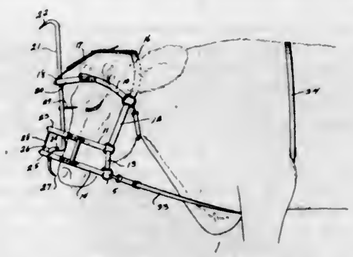
to be engaged by said hooks and capable of an eccentric movement, and adapted to hold the door in a closed position when said ends are in the lowermost position in their path of movement.

1,472,540. CAR-DOOR LOCK. WILLIAM E. WINE, Toledo, Ohio. Filed Jan. 10, 1922. Serial No. 528,245. 7 Claims. (Cl. 105—308.)



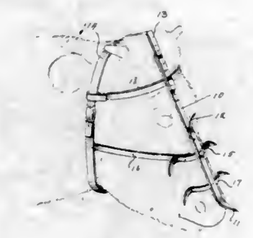
1. A car door locking device comprising a body plate, having posts formed thereon, said posts extending beyond the opposite sides of said plate, and said posts being drilled, a latch pivotally secured to one of said posts, a dog pivotally secured to another of said posts, and the lowermost post forming a lower limit of movement for said latch.

1,472,541. HEAD YOKE. WILLIAM R. BAILIE, Mesa, Wash. Filed Apr. 11, 1923. Serial No. 631,430. 3 Claims. (Cl. 119—141.)



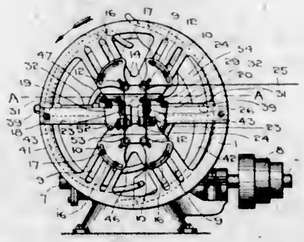
3. A device of the character described comprising a head stall having a brow band, a nose band, a band surrounding the muzzle of the animal, cheek straps, a neck band, and a head band passing behind the ears, of a U-shaped yoke mounted upon the nose band at the front thereof, a lever pivoted in said yoke and extending vertically upward, a second yoke mounted upon the brow band through which the lever passes, a spring mounted within the second named yoke and urging the upper end of the lever outward, the upper end of the lever being formed with a forwardly curved hook and that portion of the lever between the first and second named yoke having an inwardly projecting pin, a third yoke mounted upon the muzzle band below the second named yoke, a lever mounted within said last named yoke and having prongs at its lower end, the upper end of the lever being inwardly turned and pivotally engaged with the lower end of the first named lever, a connection from the head band to the brow band, a surcingle adapted to pass around the body of the cow, and a check strap attached to the surcingle and adapted to pass between the legs of the animal and engage the lower ends of the head stall.

1,472,542. CALF WEANER. WILLIAM R. BAILIE, Mesa, Wash. Filed Apr. 11, 1923. Serial No. 631,431. 2 Claims. (Cl. 119—130.)



2. A weaning device of the character described including a head stall, the head stall having a head band, a nose band, and a band adapted to extend around the neck of the animal and connected to the head band and nose band, a straight strip of metal extending down the front of the head stall, an angular strip of metal adjustably connected to the upper end of the first named strip riveted to the head stall and to the neck band and behind the ears of the animal, the lower end of the first named strip being outwardly bent and pointed, a short piece of metal attached to the front of the first named strip and extending upward and outward and being pointed, and a plurality of transverse strips attached to the main strip, the transverse strips being outwardly bowed at their middles and having their extremities outwardly and forwardly turned and pointed, one of said last named strips being riveted to the nose band.

1,472,543. WIRE-BENDING MACHINE. ARTHUR WYNDHAM BEERE, Auckland, New Zealand, assignor to Angle Brace Collapsible Box Company, Limited, Auckland, New Zealand. Filed Oct. 7, 1922. Serial No. 593,012. 15 Claims. (Cl. 140—71.)

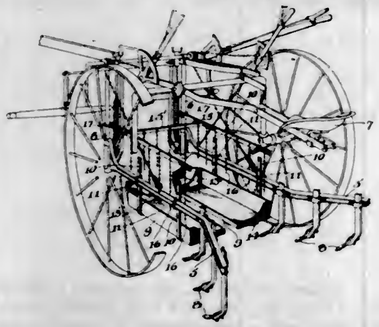


1. Means for the purpose set forth, comprising a rotary face plate, spaced projections on the latter around which wire may be wound by the rotation of the plate, wire gripping jaws, a cutter mounted on said face plate, rollers operatively connected to said jaws and cutter, and stationary guides and cam members engaged by said rollers as said plate rotates.

1,472,544. BOLL-WEEVIL EXTERMINATOR. CHARLES W. BROOKS, Huntsville, Ala., assignor of one-half to Anna W. Cobb, Huntsville, Ala. Filed May 9, 1923. Serial No. 637,772. 1 Claim. (Cl. 43—133.)

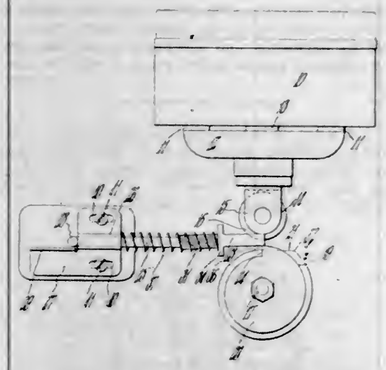
Combination with an agricultural implement having an arched axle and a pair of rearwardly directed plow beams in spaced relation, an H-shaped frame extending between said arch, and, connected at its forward end to a fixed part of the implement, the cross portion and the rearwardly extending portions of the said frame

having chains depending therefrom, a pan adjustably mounted on each of said plow beams adjacent the lower



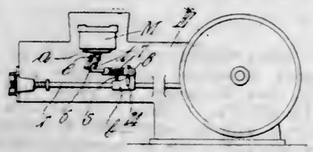
ends of said chains, said pans being spaced apart and having their forward ends outwardly flared whereby to define a channel thru which cotton plants may pass.

1,472,545. ACTUATING MECHANISM FOR MAGNETOS. PHELPS BROWN, Springfield, Mass. Filed Aug. 5, 1921. Serial No. 490,078. 4 Claims. (Cl. 123—149.)



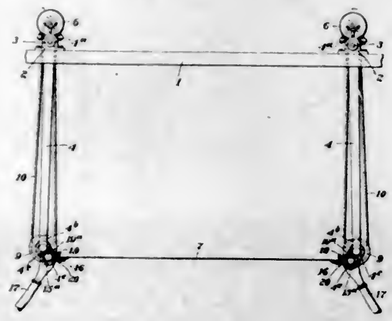
1. In a magneto actuating mechanism, a movable armature, a cam shaft, a cam carried by said shaft and adapted to actuate said armature, means interposable between said cam and armature for actuating the latter from the cam, and supporting means for the last-named means having a flexible connection therewith.

1,472,546. TRIP FINGER FOR MAGNETOS. PHELPS BROWN and IRA E. HENDRICKSON, Springfield, Mass., assignors to Wico Electric Company, Springfield, Mass., a Corporation of Massachusetts. Filed Dec. 28, 1922. Serial No. 609,406. 10 Claims. (Cl. 123—164.)



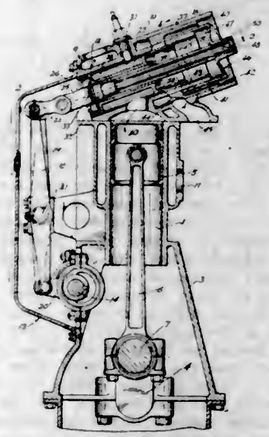
1. A device of the class described, comprising a suitable body and a trip finger, the latter being mounted in the former for longitudinal sliding movement, and two longitudinally spaced guides provided on the body to receive the finger, one of said guides fully encompassing one end of the finger, the other guide partially encompassing the finger at a distance from the first guide and permitting the finger to be disengaged therefrom in a lateral direction after it has been withdrawn from the first guide in a longitudinal direction.

1,472,547. SELVAGE-EDGE-CUTTING MACHINE. JAMES W. BRUNDAGE, Akron, Ohio, assignor to The Miller Rubber Co., Akron, Ohio, a Corporation of Ohio. Filed Aug. 19, 1920. Serial No. 404,526. 4 Claims. (Cl. 164—61.)



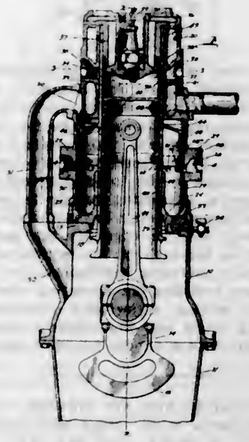
1. In apparatus for trimming the edges of friction tire fabric, a rotary cutter journaled on an axis parallel with the edge of the sheet, having a toothed edge arranged to act on the margin of the fabric, and a gage on each side of the cutter for engaging the edge of the fabric, one of said gages being displaced relative to the other corresponding to the amount removed by the cutter.

1,472,548. VALVE MECHANISM FOR INTERNAL-COMBUSTION ENGINES. EVERETT R. BURTNETT, Los Angeles, Calif., assignor of one-half to Homer A. Brunell, Los Angeles, Calif. Filed Dec. 22, 1920. Serial No. 432,529. 10 Claims. (Cl. 123—79.)



1. An internal combustion engine including a working cylinder, a valve chamber extending across the top of said cylinder and communicating with the same at one end, a sleeve surrounding said valve chamber at the other end thereof to form an annular space between the valve chamber and sleeve, a water jacket surrounding the first mentioned end of said valve chamber, a port leading from said valve chamber to said annular space, a piston valve within said valve chamber, and a sleeve valve within said annular space, said valves functioning to control the inlet and exhaust through said port.

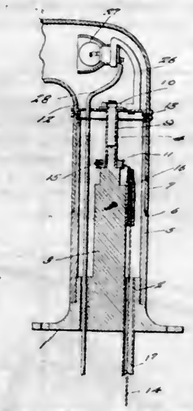
1,472,549. INTERNAL-COMBUSTION ENGINE. EVERETT R. BURTNETT, Los Angeles, Calif., assignor of one-half to Charles A. Burtnett, Los Angeles, Calif. Filed Jan. 12, 1922. Serial No. 528,639. 6 Claims. (Cl. 123—71.)



5. In an internal combustion engine, a cylinder having a precompression chamber and a combustion chamber, a member seated in the lower end of the cylinder and closing the lower end of the precompression chamber, a centrally arranged bearing formed on said member, a sleeve valve arranged for operation through said bearing and extending into the combustion chamber of the engine, a head carried by said sleeve valve and arranged within the precompression chamber, there being fuel inlet ports formed through the wall of the cylinder surrounding the precompression chamber, there being inlet ports formed through the wall of the sleeve valve immediately beneath the head carried thereby, there being exhaust ports formed through the wall of the cylinder and leading from the upper portion of the combustion chamber therein, there being exhaust ports formed through the upper portion of the sleeve valve and adapted to coincide with the exhaust ports in the wall of the cylinder, a crank case on which the cylinder is mounted, a crank shaft journaled in said crank case, a piston arranged for operation within the sleeve valve, connections from the crank shaft to said piston and sleeve valve, and a duct leading from the crank case to the upper portion of the precompression chamber.

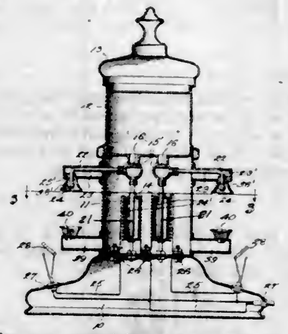
1,472,550. SIGNAL INDICATOR FOR AUTOMOBILES. POMPEO CAPOCCI, Providence, R. I. Filed July 21, 1922. Serial No. 576,598. 1 Claim. (Cl. 116—46.)

A vehicle signal of the character described comprising a base, an upright shaft formed in the base and having a reduced upper end, a sleeve surrounding the reduced end and being mounted thereon for rotation, a pulley secured to the lower end of the sleeve and a disk carried by the upper end thereof, a shell rising from the base and inclosing the shaft, a tubular member arranged over the shell in overlapping engagement and being rotatably mounted thereon, a pointer formed on the tubular member and being secured to the disk for



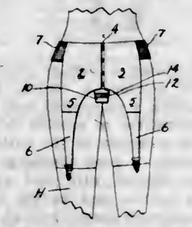
rotation therewith, means carried by the disk for illuminating the pointer and a flexible element secured to the pulley as and for the purpose specified.

1,472,551. COFFEE URN. POMPEO CAPOCCI, Providence, R. I. Filed July 21, 1922. Serial No. 576,599. 7 Claims. (Cl. 53—3.)



1. A coffee urn comprising a base, a body portion, a water container arranged above the body portion, water receiving receptacles arranged within the body of the urn and having communication with the water container, means for heating the water receptacles, a container for the ground coffee, means for conveying the water from the receptacles to said coffee containers, and valves controlling the communication between the water container and said receptacles and between the latter and said coffee containers.

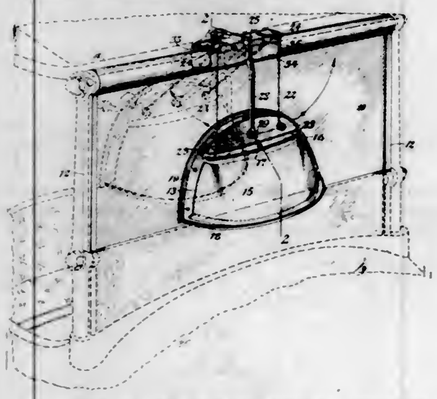
1,472,552. GIRDLE OR CORSET. CHARLES MARTIN CARR, Los Angeles, Calif. Filed Oct. 26, 1922. Serial No. 597,067. 1 Claim. (Cl. 241—2.)



In an elastic girdle having front and back pieces provided with hose suspenders, the front pieces being de-

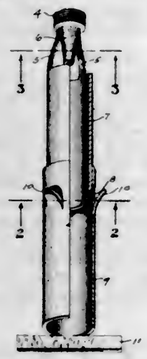
tachably joined centrally of the body, one of said front pieces and the rear piece having fixedly attached thereto elastic bandage supporting tabs, the front tab being provided with a means for detachably fastening to the adjacent front piece.

1,472,553. COMBINED CLEANER, RAIN DEFLECTOR, AND LIGHT GUARD FOR WINDSHIELDS. LEONARD J. COLE and EDMUND C. HAUCK, Buffalo, N. Y., assignors, by mesne and direct assignments, to Tri-Me Manufacturing Co. Inc., Buffalo, N. Y., a Corporation of New York. Filed Feb. 25, 1922. Serial No. 539,298. 4 Claims. (Cl. 296—95.)



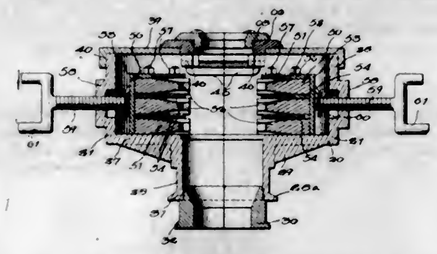
1. A device of the character described comprising a hood adapted to be arranged in front of a wind shield, and a pair of vertically swinging links pivotally connected at their lower ends with said hood and adapted to be pivotally supported at their upper ends.

1,472,554. GAS BURNER. STEPHEN A. D. COX, Ontario, Calif. Filed Aug. 17, 1922. Serial No. 582,388. 2 Claims. (Cl. 158—118.)



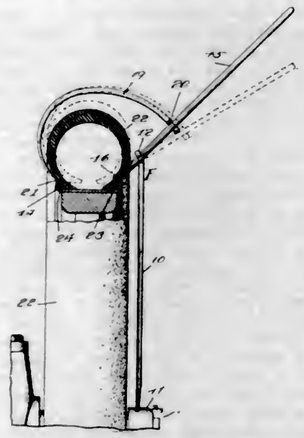
1. A burner comprising a tubular member having a long receiving tube portion, a conical nozzle at the inlet end thereof having a contracted bore aligned therewith and spaced therefrom to provide lateral ports for the induction of air, a nozzle at the outlet end of said receiving tube portion, a long discharge tube portion of larger diameter aligned with and extending from said receiving tube portion and having lateral air orifices at the last mentioned nozzle, and an inclined plate at the end of the discharge tube portion disposed so that the flame will impinge thereon and be spread.

1,472,555. OIL OR GAS WELL. ERD V. CROWELL, Tulsa, Okla. Filed Aug. 13, 1921. Serial No. 492,056. 14 Claims. (Cl. 166—15.)



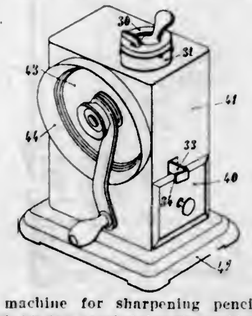
1. In a device of the character described, a bowl comprising sections, means for releasably securing the sections of the bowl together in assembly, a top for said bowl comprising sections, means for releasably securing the sections of the top together in assembly, slideways carried by the sections of the bowl, lugs carried by the sections of the top and operatively engaged in said slideways, a packing rubber in said bowl including an adjustable section operating in each of the sections of said bowl, a cage for the packing rubber having a section for each of the sections of said packing rubber, and operating mechanism for the packing rubber sections including an operating screw journaled in each bowl section, a swiveled connection between each operating screw and the adjacent cage section of its bowl section, and a handle for each operating screw.

1,472,556. TIRE-HANDLING DEVICE. GRANVIL F. DALLAS, Knoxville, Tenn. Filed June 13, 1923. Serial No. 645,192. 2 Claims. (Cl. 157—6.)



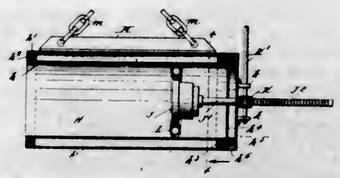
1. In a tire tool, a support adapted to engage against a wheel hub at one end and provided at its opposite end with a reduced hooked extension, a handle portion having longitudinally spaced openings adapted for the reception of said hooked portion, the handle portion being adapted at one end for engagement against a tire, the hooked portion pivoted at one end to the handle portion beyond the point of engagement of the handle portion with the support from the last named end of the handle portion, said hooked portion being adapted to bridge a tire to be removed and having its free end flattened for engagement with the tire adjacent the tread thereof.

1,472,557. MACHINE FOR SHARPENING PENCILS. AUGUSTE DANDRIEUX, Paris, France, assignor to Société Anonyme Anciens Ateliers A. Dandrieux, Paris, France. Filed May 22, 1922, Serial No. 562,786. Renewed Sept. 27, 1923. 9 Claims. (Cl. 120—95.)



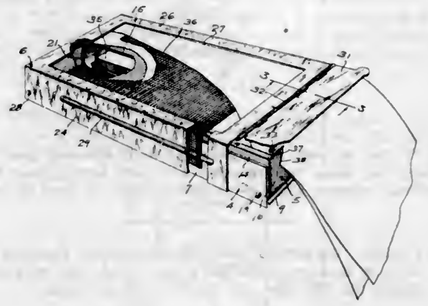
9. In a machine for sharpening pencils, a circular plate, radial blades carried by the said plate and the sharp edges of which are in the same plane, an axis of rotation at right angles to this plane and on which the said plate is rigidly secured, a frame supporting the said axis, a surface of this frame coinciding with the plane of the blades, a conical hole in this frame, opening laterally on the said surface, a cylindrical socket mounted on the frame so as to be capable of rotating about its axis which coincides with that of the conical hole, a support within this socket, two opposite clips pivoted on this support, means for resiliently bringing back these two clips, equal levers pivoted on the clips and together, slides of the said inner support, through which pass the pivoting axes connecting the levers together, rolls in the shape of a double frustum carried by the clips, circular ribs on the said rolls rendering the pencil integral with the socket for the rotary movement, a screw thread on the axis of rotation of the plate, a nut, a spring taking a bearing on this nut and on the plate, a polygonal projection on this nut, a crank mounted on this projection, a locking nut for the crank, a cam rigidly secured on the axis of rotation of the plate, a toothed wheel rigidly secured on the socket and combined with the said cam, a movable rod, notches of different depths in this rod, slides on the frame, projections carried by the said rod permitting the locking of the same, a casing enclosing the whole, a drawer for receiving the chips.

1,472,558. DIRECTIONAL RECEIVING OF SUBMARINE SIGNALS. REGINALD A. FESSENDEN, Brookline, ROBERT L. WILLIAMS, Newton, and EDWARD C. WOOD, Somerville, Mass., assignors to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed July 18, 1918. Serial No. 245,547. 6 Claims. (Cl. 181—26.)



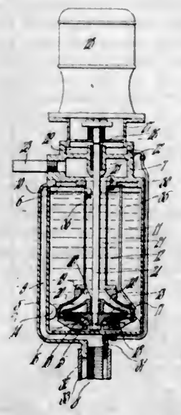
1. The device above described comprising a sound receiver and a mounting thereof, said mounting comprising a tubular sound screen one end of which is provided with a sound-insulating closure, said sound receiver being located within said tubular sound screen and near the closed end thereof with its receiving face pointing to the other end thereof, in combination with means for adjusting the position of said receiver longitudinally of said casing.

1,472,559. SALES-SLIP HOLDER. JOHN F. FULFS, Los Angeles, Calif. Filed Feb. 9, 1922. Serial No. 535,180. 5 Claims. (Cl. 282—12.)



4. A sales slip holder comprising a case to hold zigzag paper, a table pivoted to one end of said case so that it can be swung into and out of the latter and will cover the folded paper, the free end of said table being rounded so that paper may be drawn over the rounded end, a frame pivotally mounted on said case so that it may be swung over said table, and an apron hingedly connected to the free end of said frame and overlying said table, said apron being provided with posts to engage registering apertures in the paper, the side walls of said frame and case being provided with registering ribs to lock the holder in closed position and to retain carbon paper.

1,472,560. LIQUID-PUMPING APPARATUS. FRANCIS H. GRIFFITHS, Springfield, and HARRY F. BENSON, Holyoke, Mass. Filed July 11, 1921. Serial No. 483,776. 7 Claims. (Cl. 103—113.)



1. Pumping apparatus, comprising, a pump of the impeller type, a casing affording an air-tight chamber in the lower end of which said pump is located with its intake in constant communication therewith, a lift pipe for liquid communicating with said chamber above the level of the intake of said pump, and a delivery pipe extending from the pump outwardly through said casing.

1,472,561. HAIR WAVER. WILLIAM C. HABERKAMP, Chicago, Ill. Filed Mar. 4, 1922. Serial No. 540,959. 6 Claims. (Cl. 219—24.)

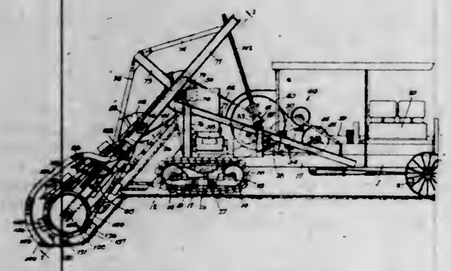
1. A hair waver comprising a pair of parallelly disposed oblong jaw members adapted to be positioned edgewise closely adjacent to the head and having smooth flattish

faces to receive a rolled wisp of hair between, means to supply heat thereto, and manual means adapted and



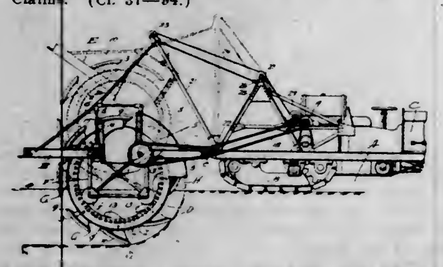
arranged to vary the spacing of said members and to force the same convergently, said jaws having heat insulated concave edges to fit and protect the head in use.

1,472,562. GRADING AND EXCAVATING MACHINE. EARL B. KNIGHT, Waterloo, Iowa. Filed July 26, 1922. Serial No. 577,581. 19 Claims. (Cl. 37—192.)



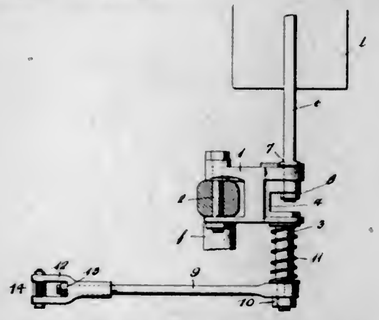
1. In a machine of the class described, the combination of a main central digging and conveyor mechanism, a portable frame upon which said digging and conveyor mechanism is mounted, side digging chain mechanism located on opposite sides of the main central digging and conveyor mechanism, edged scarifiers located on opposite sides of said main central digging and conveyor mechanism and supported by said side digging chain mechanism, and deflector scrapers mounted between said scarifiers and adapted to deflect the material loosened by the scarifiers toward and into the path of movement of said main central digging and conveyor mechanism.

1,472,563. TRENCHING MACHINE. TRULS LOKEN, Kenosha, Wis., assignor, by mesne assignments, to F. C. Austin Machinery Company, a Corporation of Illinois. Filed Jan. 2, 1918. Serial No. 209,860. 9 Claims. (Cl. 37—94.)



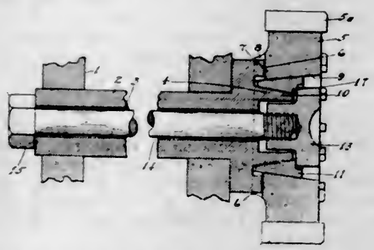
1. In a traveling excavator, a pivoted bucket, means for moving said bucket forward in the direction of travel of the excavator and then upward to cut the ground and take up a load of dirt, a cam connected with said bucket, stationary controlling means for engaging said cam to tilt said bucket into cleaning position, and a cleaner disposed in position to pass through the moving bucket when the latter is thus tilted and held in cleaning position.

1,472,564. AUTOMATIC DIRIGIBLE HEADLIGHT. THOMAS D. MCCOWN and JAMES A. BLANCHARD, Poplar Bluff, Mo. Filed July 29, 1922. Serial No. 578,487. 1 Claim. (Cl. 240—62.)



In a dirigible headlight mounting of the character described, supports, a pair of brackets, each of said brackets moving horizontally extending bifurcated ends, one of the bifurcations being adapted to straddle and to be secured to the adjacent support, the upper and lower legs forming the other bifurcation being provided with vertically aligned circular openings, the lower of said openings being of less diameter than the upper, a bearing arm receivable in said openings, an annular shoulder formed upon the upper end of said arm and adapted to bear against the upper face of the upper leg, the lower end of said arm being reduced for snug engagement with the lower opening and to provide a bearing pintle adjacent the upper face of the lower leg, a lamp supporting standard rising from the other end of said bearing arm, a reduced staff extended from the lower end of said arm and means connected to said shaft for transmitting oscillatory movement thereto.

1,472,565. CUTTER-HEAD ATTACHMENT. HOWARD H. MANNING, Meadville, Pa. Filed Sept. 15, 1919. Serial No. 323,821. 5 Claims. (Cl. 279—1.)

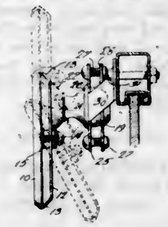


1. In a cutter head attachment, the combination of a spindle having a shouldered extension thereon; a cutter head having an opening into which the spindle projects with the head mounted against the shoulder, the periphery of the opening in the head and the periphery of the spindle being out of contact and formed with opposing tapered surfaces; a tapered collapsing collar between the spindle and head; and means for forcing the collar axially to engage the spindle and head and to force the head against the shoulder.

1,472,566. ADJUSTABLE BRACKET FOR MIRRORS AND OTHER ARTICLES. JOHN R. OISHEI, Buffalo, N. Y. Filed Dec. 8, 1921. Serial No. 520,951. 5 Claims. (Cl. 45—97.)

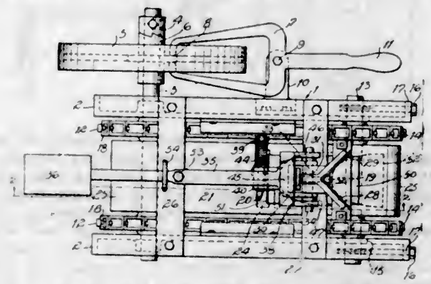
1. An adjustable bracket for mirrors and other articles, comprising a section to which the article is secured, an attaching section adapted to be secured on a support, and

a ball and socket joint connecting said sections, said ball being hollow and having a neck, a screw passing through said neck for securing the ball to one of said



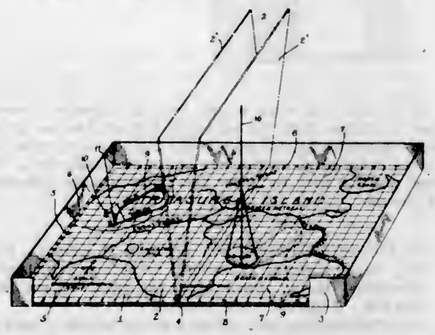
bracket sections, and interfitting portions on said section and neck which prevent the ball from turning on said section about said screw.

1,472,567. HEEL-GOUGING MACHINE. DENNIS PARKS, St. Louis, Mo. Filed Feb. 8, 1922. Serial No. 535,015. 17 Claims. (Cl. 12—46.)



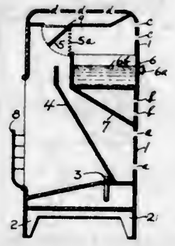
1. In a machine of the class described, in combination with means for moving a heel-blank in a right line, a gouger having its cutting edge located in the plane of movement of said heel-blank, and means for producing relative movement between the gouger and heel-blank when the heel-blank has reached a defined position with respect to the gouger to cause the penetration of the heel-blank by the gouger, whereby, in the continued movement of the heel-blank, material of uniform depth will be removed therefrom.

1,472,568. GAME APPARATUS. LOUIS S. SCHER, New York, N. Y. Filed Jan. 22, 1923. Serial No. 614,256. 7 Claims. (Cl. 46—41.)



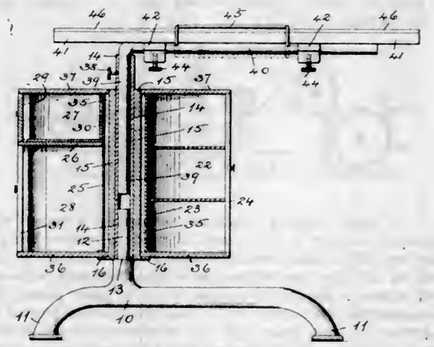
1. In game apparatus, the combination of a non-magnetic member the surface of which is provided with means for designating various points or portions thereof, a non-magnetic cover member having similar designating means, adapted to be positioned on said first member in alinement therewith, a magnet adapted to be placed at any desired point on said first member and covered by said cover member, and a member adapted to be attracted by said magnet, adapted to be moved by a player above said cover member in an effort to locate the position of said magnet.

1,472,569. MOIST HEATER. OLIN W. SCURLOCK and LEO A. GILBREATH, Dallas, Tex. Filed Dec. 26, 1922. Serial No. 609,125. 2 Claims. (Cl. 126—86.)



1. In a heater, a water receptacle, a burner, a damper regulating the passage of heated air over the receptacle, means for adjusting the damper, and a cool air chamber below the receptacle.

1,472,570. CABINET TABLE. LLOID H. SNIDER, Grand Rapids, Mich. Filed May 15, 1920. Serial No. 381,693. 2 Claims. (Cl. 45—110.)

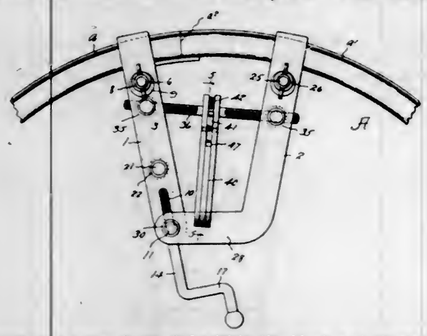


1. The combination with a base having a plurality of bars with a short vertical stud extending upwardly at the point of merger of said bars.—said stud having an annular bearing shoulder below its upper-most end, of a vertical tube whose lower end telescopes the stud and is supported on the annular bearing-shoulder of said stud, a cabinet mounted about the tube and of less height than the latter whereby the upper end of the tube may be exposed above the cabinet, a rod entering the upper projecting end of the tube and extending down therein toward the upper end of the short vertical stud and a table top carried by said rod above the upper end of the tube and cabinet.

1,472,571. RIM TOOL. JOSEPH C. THEBERATH, Cleveland, Ohio. Filed May 6, 1921. Serial No. 467,481. 4 Claims. (Cl. 157—1.)

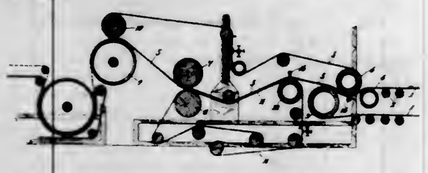
1. In a rim collapsing tool, the combination with two members, each member comprising opposed side plates, opposed jaws carried by the outer end of each of said members for engagement with a rim, means for clamping the opposed jaws of each member to one of the opposite end

portions of a split rim, a block situated between the inner ends of the side plates of one of said members, the side plates of said member having slots and the block having trunnions projecting through said slots, the inner ends of the side plates of the other member having openings wherein said trunnions are journaled, a nut situated between and connected to the side plates of the former



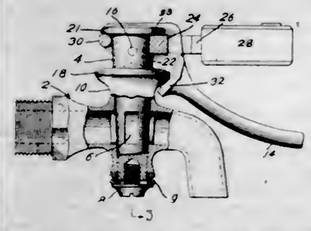
member, a screw journaled within the block and threaded through the nut, means for turning the screw, a nut situated between and connected to the side plates of each of the members adjacent its outer end, a jack screw having its ends provided, respectively, with right and left hand threads for cooperation with the last mentioned nuts, and means for rotating the jack screw.

1,472,572. METHOD AND MACHINE FOR MAKING PAPER. JOHN D. TOMPKINS, Valatie, N. Y. Filed Aug. 14, 1922. Serial No. 581,560. 11 Claims. (Cl. 92—49.)



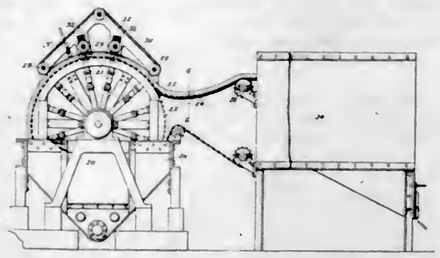
1. A paper making machine comprising a paper web forming member, a felt apron adapted to receive the paper web after being formed by said member, means including an air blast for extracting water from said web and felt apron, a second felt apron, a set of plain press rolls co-operating with said felt aprons, and means located in advance of said press rolls for extracting water jointly from both of said felt aprons and from both sides of the paper web.

1,472,573. LOCK FAUCET. ALONZO A. WARNER, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed June 6, 1922. Serial No. 566,298. 4 Claims. (Cl. 251—6.)



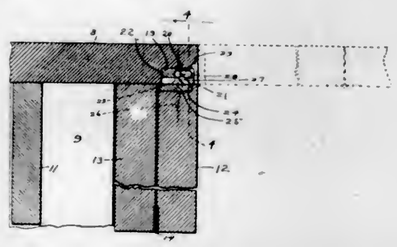
2. In a valve, a valve casing, a valve member turning therein and provided with a stem, a handle pivoted to said stem so as to move in the plane of its axis, said casing and handle having portions adapted to engage when the handle is in one position so as to lock said stem from turning, said handle having an opening, said casing having a projection and said handle having a portion engaging the lower side of said projection when said handle is in said one position, and means passing through said opening and cooperating with said stem to hold said handle in said one position.

1,472,574. FILTRATION. ARTHUR WRIGHT, Upper Montclair, and Frank W. YOUNG, Verona, N. J. Filed July 3, 1920. Serial No. 393,951. 20 Claims. (Cl. 210—198.)



1. The filtration process, consisting in passing the liquid of a liquor containing suspended particles through a filter medium adjacent to which is located a cake reinforcing and stripping member, causing the cake to form on said filter medium and having the reinforcing and stripping member therein and then removing said reinforcing and stripping member from said filter medium and thereby causing the removal of the cake from said filter medium.

1,472,575. FOLDING TABLE. EMMA V. ANDERSON, Sioux City, Iowa. Filed Sept. 12, 1919. Serial No. 323,342. 3 Claims. (Cl. 45—47.)



1. A table including a top, legs at opposite corners, and a distance from the side edge thereof, and an extension hinged to the side edge of the top to swing upwardly to the same plane as the top, and downwardly to a vertical position with its upper face flush with the side edge of the top.

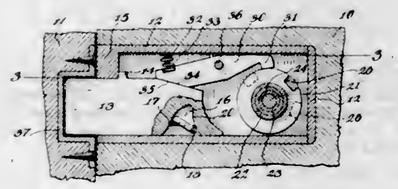
1,472,576. FOUNTAIN PEN. WILLIAM H. AVERILL, Boston, Mass., assignor of one-half to Arthur C. Erisman, Brookline, Mass. Filed May 18, 1921. Serial No. 470,528. 2 Claims. (Cl. 120—42.)

1. A fountain pen comprising a barrel having a head at one end, a pen stock at the other end having an inwardly projecting piercing point provided with an ink conducting channel, and an ink cartridge adapted to enter the barrel and having one closed end and one open end, a stopper penetrable by said piercing point located in the open end of said cartridge and formed with a lip of resilient material overlapping the walls of the cartridge and adapted to be pressed against the adjacent end of the



pen stock, and a cushioning piece mounted in the barrel in position to engage the closed end of said cartridge and press the other end against the pen stock.

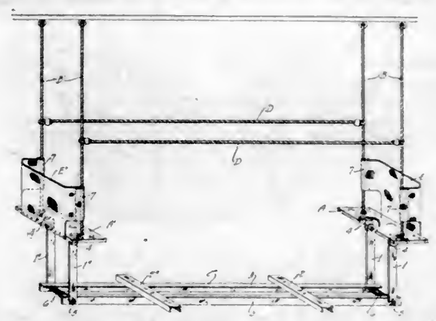
1,472,577. COMBINATION LOCK. RICHARD BABB, New York, N. Y. Filed June 15, 1921. Serial No. 477,642. 3 Claims. (Cl. 70—53.)



1. In a lock, a sliding bolt, a handle for projecting and retracting the bolt, mechanism tending normally to maintain the bolt yieldably in projected position, said mechanism including a lever arranged with one end in the path of the bolt and adapted to seat thereagainst when the bolt is projected, and tumblers for retaining the lever from movement out of the path of the bolt whereby to lock the bolt in projected position, said tumblers being adapted to be relatively adjusted into releasing position with respect to said lever whereby when released said lever may be moved out of engagement with the bolt and said bolt may be retracted.

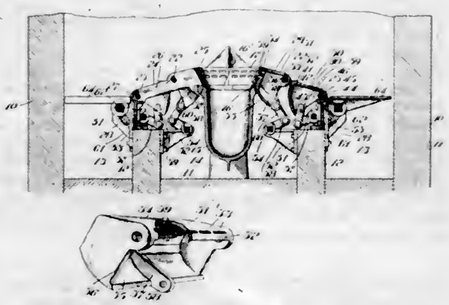
1,472,578. SWING. HAROLD F. BELK, East St. Louis, Ill. Filed July 3, 1922. Serial No. 572,492. 5 Claims. (Cl. 15—63.)

1. A swing, comprising a seat, flexible sustaining members for said seat connected to an overhead supporting structure, a foot rest suspended at one end from said seat by swinging links, a flexible sustaining means for the opposite end of said foot rest connected to said support-



ing structure, and ropes or the like that join said flexible foot rest sustaining means to said flexible seat sustaining members.

1,472,579. SIDE-DUMP UNDERFEED FURNACE. ARTHUR H. BLACKBURN, Downers Grove, and FRANK E. FLEMING, Chicago, Ill., assignors to The Underfeed Stoker Company of America, Chicago, Ill., a Corporation of New Jersey. Filed Nov. 12, 1918. Serial No. 262,252. 5 Claims. (Cl. 110—47.)

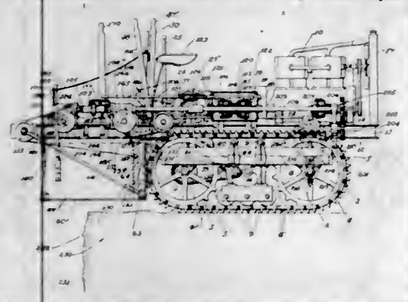


1. In an underfeed furnace, the combination of a retort extending longitudinally, means for feeding fuel along said retort from its front end toward its rear end, ash-disposal means extending longitudinally in substantial parallelism with a side of the retort but spaced laterally therefrom, and a floor structure intervening between said side of the retort and said ash-disposal means, which floor structure includes a plurality of courses of floor members, arranged normally to present a substantially solid floor-surface, each said course of floor members being independently tiltable to elevate that edge of its floor members which is toward the retort, for laterally feeding fuel and ash from adjacent the retort toward the ash-disposal means, and means for so tilting said courses of members independently.

1,472,580. AUTOMOTIVE MATERIAL EXCAVATING, MOVING, AND SURFACING MACHINE. ROBERT E. BRESSLER, Hammond, Ind. Filed Feb. 6, 1920. Serial No. 356,694. 13 Claims. (Cl. 37—126.)

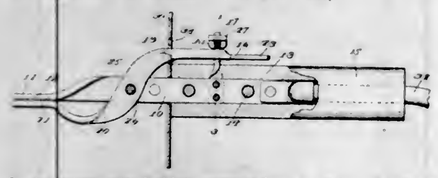
1. An apparatus adapted to excavate material, carry it, and discharge it over a precipitous declivity, embodying therein traction elements, a frame carried thereby, a tractor frame having a portion extending beyond the traction elements, a scraper, having a cutting edge, carried by said extending frame portion and mounted for swinging movement so that the cutting edge can be positioned below the plane of the traction elements, a motor mounted upon

said frame, mechanism operable by said motor for swinging said scraper, a trolley mounted for movement longitudinally of the tractor frame and having wheels operable



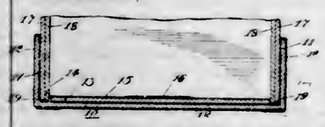
thereon, a material discharge gate carried by the trolley and positioned in said scraper, and mechanism operable by said motor for driving said trolley.

1,472,581. WELDING ELECTRODE HOLDER. JOSEPH BRITT, New York, N. Y. Filed Jan. 10, 1922. Serial No. 528,333. 2 Claims. (Cl. 219—14.)



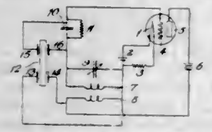
1. An electrode holder comprising a pair of pivoted members having gripping jaws, one of the members having a handle and the corresponding end of the other member a thumb-piece, a notched keeper carried by the first member, the second member having a lip for engagement with the keeper, and a removable and adjustable stop-member on the keeper for limiting the upward movement of the thumb-piece portion of the second member, and thereby the opening movement of the gripping jaws.

1,472,582. CONTAINER. ROBERT BUEDINGEN, Rochester, N. Y. Filed Apr. 8, 1922. Serial No. 550,660. 5 Claims. (Cl. 229—6.)



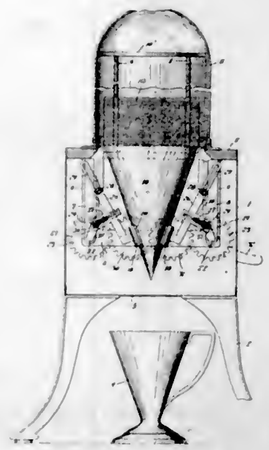
1. In a container, in combination, a bottom carrying side members, a raised step carried by the bottom, a flexible sealing member partially attached to the bottom and a container side member attached to the unattached portion of the sealing member.

1,472,583. METHOD OF MAINTAINING ELECTRIC CURRENTS OF CONSTANT FREQUENCY. WALTER GUYTON CADY, Middletown, Conn. Filed May 28, 1921. Serial No. 473,434. 3 Claims. (Cl. 250—36.)



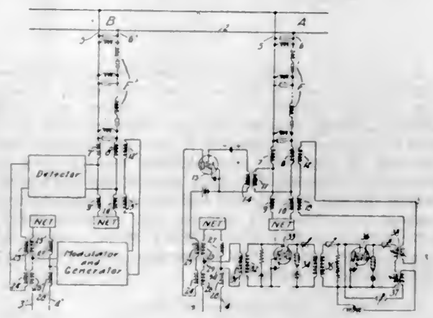
3. The combination with an alternating current amplifier of a piezo-electric resonator having two pairs of conducting coatings, one pair connected to the output circuit of the amplifier, the other pair connected to the input circuit so as to cause in the output circuit an alternating current to flow the frequency of which is determined by the mechanical vibrations of the said resonator.

1,472,584. PAPER-CUP DISPENSER. HAROLD CARLE, Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Canada, a Corporation of Canada. Filed Mar. 19, 1920. Serial No. 367,060. 38 Claims. (Cl. 45—8.)



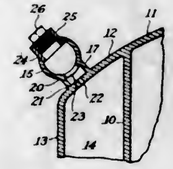
14. A dispenser for cups of the character described including, in combination a support for a column of nested cups, a pair of cup grippers having soft, frictional, cup gripping faces supported for movement on opposite sides of the cup path, and means adapted to cause movements of said grippers toward the outer surface of the lateral wall of the cup and simultaneous movement thereof from said support thereby to grasp a cup and draw the same from said column.

1,472,585. MULTIPLEX SIGNALING SYSTEM. EDWIN H. COLPITTS, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 9, 1919. Serial No. 309,715. 7 Claims. (Cl. 179—15.)



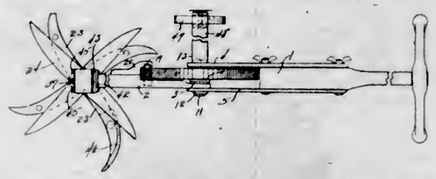
1. In a carrier current system a high frequency line, a plurality of detectors connected thereto, a balancing network individual to each detector for balancing said line at a given frequency, and an individual band filter connecting each detector to said high frequency line.

1,472,586. SPRAY COIL. ISAAC E. COLVIN, Rochester, N. Y., assignor to The Pfaudler Company, Rochester, N. Y. Filed May 21, 1921, Serial No. 471,440. Renewed June 24, 1922. Serial No. 570,718. 5 Claims. (Cl. 299—58.)



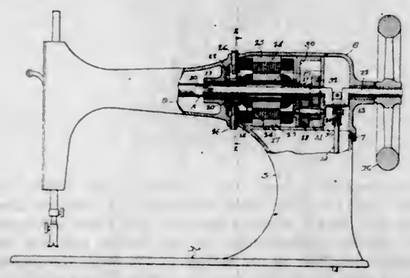
1. The combination, with a vessel having a jacket provided with separated groups of divergent openings through its upper portion, of a pipe conforming approximately to the periphery of the jacket and having elongated openings in its inner side; nipples surrounding both said elongated and divergent openings and connecting the pipe with the jacket; and removable plugs in the pipe so located that all of said openings are accessible from the exterior when said plugs are removed.

1,472,587. LAWN TRIMMER. JOSEPH WADE CROWDER, Seminary Hill, Tex. Filed Mar. 31, 1921. Serial No. 457,331. 16 Claims. (Cl. 56—255.)



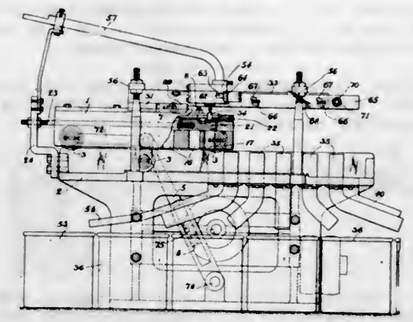
15. A lawn trimmer having a supporting and driving wheel, a bearing member supported on said wheel, a head adjustably supported on said bearing member, a shaft journaled in said bearing member and operatively connected to said wheel at one end and provided with a bevel gear wheel at the other end, upper and lower associated rotary cutters, an outer shaft carrying said upper cutters journaled in said head provided with a gear wheel driven by said bevel gear, and an inner shaft journaled in said outer shaft and in said head and carrying said lower cutters and provided with a gear wheel driven by said bevel gear wheel.

1,472,588. ELECTRICALLY-DRIVEN SEWING MACHINE. CHARLES W. H'DOUBLER, Madison, Wis. Filed Apr. 7, 1919. Serial No. 288,201. 14 Claims. (Cl. 112—220.)



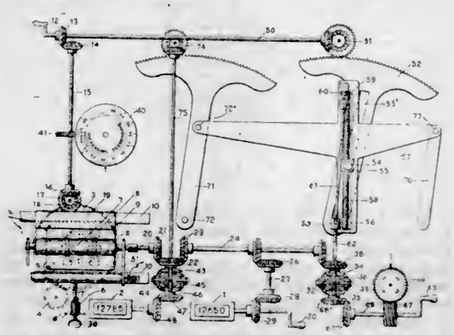
1. An electrically driven sewing machine, comprising a tubular sewing machine head having a horizontally extending shaft in its upper arm portion, and an electric motor having a horizontally extending armature extending parallel to the horizontal shaft and mounted in said upper arm portion and approximately in co-axial alinement with said shaft having a driving connection between the armature and the shaft.

1,472,589. APPARATUS FOR GAUGING ROLLERS AND OTHER ARTICLES. LLEWELLYN MILFORD ELLIS, Ward End, Birmingham, England, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Dec. 15, 1922. Serial No. 607,256. 14 Claims. (Cl. 83—92.)



1. Apparatus for gauging articles comprising a gage-plate, a holder for the article to be gaged, means for imparting a relatively reciprocating movement to the gage-plate and holder so that the said gage-plate and holder move one alongside the other until the article and gage-plate engage with one another, and means for ejecting the article when engaged by the gage-plate.

1,472,590. CALCULATING INSTRUMENT. HANNIBAL C. FORD, Jamaica, N. Y., assignor to Ford Instrument Company, Inc., New York, N. Y., a Corporation of New York. Filed June 15, 1918. Serial No. 240,217. 24 Claims. (Cl. 235—61.)

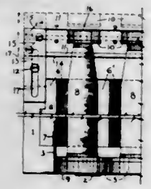


3. In an instrument of the class described, means for setting up any given range rate, means for setting up any given time interval and means for multiplying the values of the range rate and time interval set up.

1,472,591. BOBBIN HOLDER. JOSEPH FOURNIER, Central Falls, R. I. Filed Dec. 5, 1922. Serial No. 605,101. 5 Claims. (Cl. 242—132.)

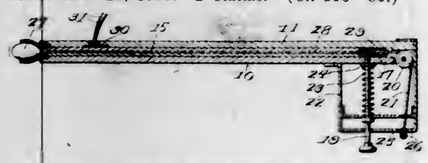
4. In a bobbin holder of the type described, a base, a series of troughs secured thereto, a plate pivotally connected to one end of said base capable of assuming either a vertical or a horizontal position, foot members rigidly

carried by said plate, means for retaining said plate in its vertical position, a strip associated with the opposite



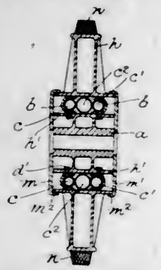
end of said base, an angular member rigidly connected to said strip and adjustably connected to said base, and hood members carried by said angular member.

1,472,592. AUTOMOBILE SIGNAL. FRED FOX, Lima, Ohio. Filed Aug. 15, 1921, Serial No. 492,442. Renewed Mar. 22, 1923. 2 Claims. (Cl. 116—50.)



1. A direction signal comprising an elongated casing having a recess in one side, a signal arm movable longitudinally in the casing, releasable means engaged with the arm for holding the arm within the casing, a drum mounted in the recess, and a flat motor spring secured to and wound on the drum and having its other end extending longitudinally within the casing, and secured to the inner end of the arm to normally urge the arm outwardly through the end of the casing.

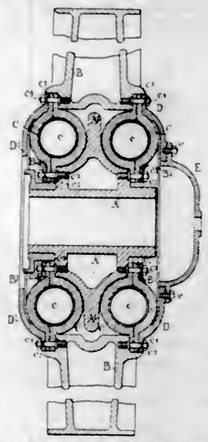
1,472,593. WHEEL FOR ROAD VEHICLES. COLLINGWOOD GREEN, Bolton, England. Filed May 24, 1921. Serial No. 472,124. 2 Claims. (Cl. 152—42.)



1. In a wheel for road vehicles, the combination with a hub comprising two concentric, radially separated, members, of a plurality of flexible bands, of substantially U-shape in cross section, extending around the inner hub member and secured to both said members to form a driving connection between them, a resilient tube embraced by each member of said flexible driving connection, for the purpose described, and an auxiliary resilient tube surrounding the inner hub member between two adjacent members of the driving connection.

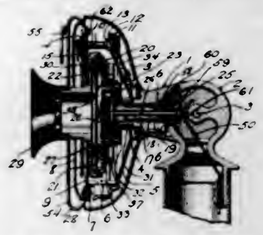
1,472,594. WHEEL FOR ROAD VEHICLES. COLLINGWOOD GREEN, Bolton, England. Filed Mar. 22, 1923. Serial No. 626,930. 1 Claim. (Cl. 152—42.)

In a vehicle wheel of the type referred to the combination with the hub part, of an outer part carrying the felloe, two pairs of annular strips of pliable material connecting the two parts together, a central flange on the hub part projecting outwards between the pairs of annular strips which by contact with the inner strip of each pair forms a guide for the radial movement of the two parts and prevents lateral movement thereof, plates at the front and back of the wheel affixed to the felloe



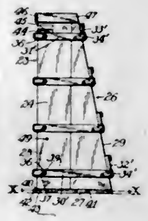
carrying part by the bolts affixing the outer annular strips thereto and a cap affixed to the front plate.

1,472,595. CALLING DEVICE. JOHN T. E. HILLHOUSE, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 24, 1920. Serial No. 432,965. 15 Claims. (Cl. 179—90.)



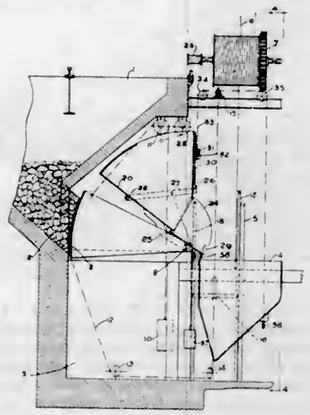
1. A calling device having in combination, a rotatable member, and a transmitter, said transmitter adapted to rotate with said member.

1,472,596. MOLD FOR CONCRETE POSTS. NELSON F. HOWARD and COLONEL L. HOWARD, Fairfield Township, Ind. Filed July 2, 1921. Serial No. 482,203. 6 Claims. (Cl. 25—118.)



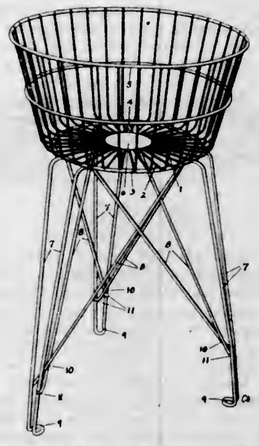
1. A concrete post mold including two front mold forms and two rear mold forms having each an inner plane face and a straight bottom, each form having one edge that is perpendicular to the bottom and one edge inclined relatively to the bottom of the form, the inclined edge of each front form and the perpendicular edge of an adjacent rear form being hinged together, the perpendicular edges of the front forms being detachably connected together, and the inclined edges of the rear forms being detachably connected together.

1,472,597. SHALLOW-PIT COALING STATION. RICHARD S. JACOBSEN, Chicago, Ill., assignor to Roberts and Schaefer Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 19, 1918. Serial No. 258,855. 16 Claims. (Cl. 214—125.)



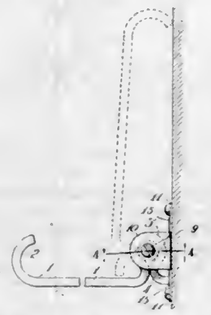
1. In apparatus for the purpose set forth, the combination of a hopper having an angular discharge from the bottom thereof, a gate to control the discharge from said hopper, a receptacle to receive the discharge, a hoisting bucket adapted to be lowered to receive a load, means whereby to automatically open said gate, there being space to receive the bucket, and instrumentalities controlled by the operation of the bucket into lowered position to shift said receptacle into position to discharge its load into the lowered bucket, the loading position of the bucket being above the angle of discharge from the hopper, thereby to reduce the depth of said space, and means whereby the load is automatically discharged from said receptacle into the bucket, said receptacle having a discharge mechanism, and means operated by the bucket to control said mechanism and thereby release the load.

1,472,598. DISPLAY BASKET OR RECEPTACLE. CHARLES H. JARVIS, Battle Creek, Mich., assignor to United Steel and Wire Co., Battle Creek, Mich. Filed Oct. 7, 1922. Serial No. 593,131. 4 Claims. (Cl. 220—19.)



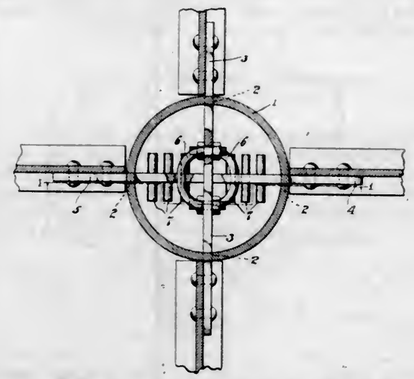
1. In a display stand, the combination of a metal basket comprising angled slats and a bottom hoop welded on the outer side thereof adjacent the angles, and A-shaped leg members formed of rods folded upon themselves providing legs and downwardly diverging braces therefor, the apexes of said leg members being welded to said bottom hoop, the bight portions thereof being turned laterally providing feet, the braces of adjacent leg members being crossed and welded together at their crossing points, their ends being welded to the side members of adjacent legs.

1,472,599. CURTAIN HOLDBACK. CHARLES W. KIRSCH, Sturgis, Mich. Filed Jan. 30, 1922. Serial No. 532,584. 4 Claims. (Cl. 156—33.)



2. A curtain hold-back comprising a rod adapted to be pivotally mounted on a window-casing for swinging from an upright to a substantially horizontal curtain-supporting position, a spring associated with said rod for frictionally resisting pivotal movement thereof, there being an opening between the ends of said rod, a cupped washer having a central opening housed in the opening in said rod, a pivot screw having a head adapted to be received in the cup of said washer and engage around the central opening therein and passing through said spring for engagement in a side of a window-casing for securing said rod and spring thereto, and adjusting the pressure exerted by said spring to yieldably resist arcuate movement of said rod, said stop-formation on said spring adapted to engage the wall adjacent the side of the window-casing to prevent arcuate movement of said spring.

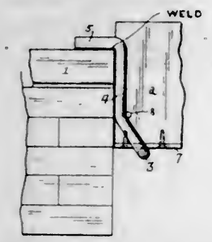
1,472,600. BUILDING COLUMN. JOHN LALLY, Boston, Mass. Filed Sept. 13, 1921, Serial No. 500,385. Renewed Sept. 25, 1923. 4 Claims. (Cl. 72—75.)



1. A building column comprising a casing provided with slots, a perforated plate extending through opposed slots, a perforated tie plate extending through the other slot and abutting the first plate within the casing, a

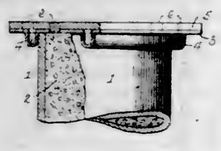
clip passing through perforations in both plates binding the two together and a filling of plastic material within the casing embedding the inner ends of the plates and clip.

1,472,601. WALL HANGER. JOHN LALLY, Boston, Mass. Filed Jan. 19, 1923. Serial No. 613,666. 5 Claims. (Cl. 72—108.)



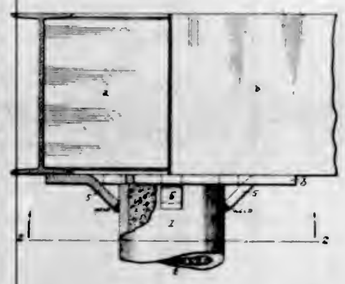
1. A hanger for masonry walls comprising a pair of rolled sections having a bearing face adapted to be built into a wall, a stirrup composed of a bottom bar adapted to carry a joist, side bars between which a joist is adapted to lie and top bars welded to the rolled sections.

1,472,602. CAP FOR BUILDING COLUMNS. JOHN LALLY, Boston, Mass. Filed Mar. 24, 1923. Serial No. 627,412. 2 Claims. (Cl. 189—42.)



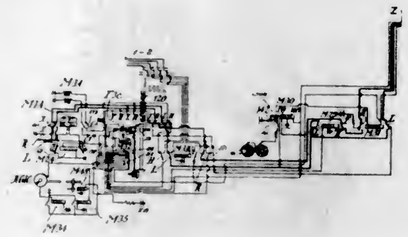
1. A cap for building columns comprising a relatively ductile plate of metal adapted to rest on a column end with a portion thereof displaced beyond the surface, said displaced portion being adapted to engage a column end and a second, rigid plate secured thereto.

1,472,603. CAP FOR BUILDING COLUMNS. JOHN LALLY, Boston, Mass. Filed Sept. 25, 1923. Serial No. 664,700. 5 Claims. (Cl. 189—42.)



1. A column cap comprising a plate of metal adapted to rest on a column end and a plurality of flanges slit and punched from said plate at a distance from the edges thereof and bent at an angle to the plane thereof and adapted to engage the side wall of a column end.

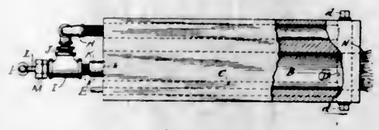
1,472,604. AUTOMATIC TELEPHONE SYSTEM. THOMAS LENAGHAN, Croydon, England. Filed Apr. 28, 1920. Serial No. 377,288. 21 Claims. (Cl. 179—18.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a telephone system, the combination of a number of power driven switching mechanisms, a number of contacts to which the said switching mechanisms have access, trunks and lines associated with said contacts, means whereby the several trunks and lines have associated therewith a predetermined electrical condition, individual to the said trunks and lines, a number of control recorders adapted to engage a line when calling, calling means adapted to operate the control recorder to establish similar electrical conditions as are associated with the required connection, trip mechanisms adapted to arrest the movement of the power-driven switching mechanisms, and a balancing circuit which on a switch mechanism meeting an electrical condition similar to the electrical condition established on the control recorder, will cause a trip current to flow for the operation of the aforesaid trip mechanism.

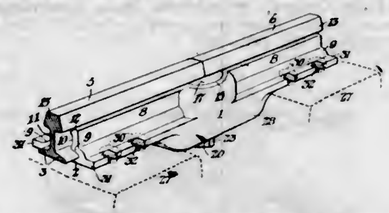
17. In a telephone system, the combination of power-driven switch mechanisms, a plurality of contacts, trunks and lines associated with the said contacts, a closed type of connecting trunk, common to several groups, means whereby selection may be made either to the right or left of the point of entry, and means whereby one or more sections in the given direction may be utilized to establish the connection.

1,472,605. KEROSENE-GAS BURNER. JULIUS A. LUEDECKE, Chicago, Ill. Filed Dec. 30, 1922. Serial No. 609,927. 1 Claim. (Cl. 158—53.)



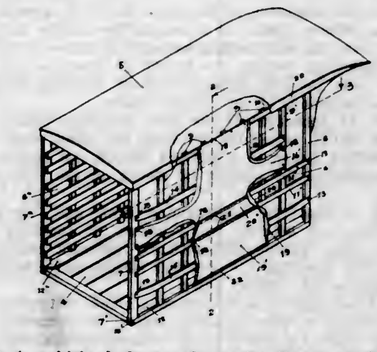
A body member provided with a central passage way extending longitudinally therethrough and open at both its ends, and provided with additional and parallel longitudinally extending passage ways, the lower ones of said additional passage ways in communication, adjacent to the discharge ends thereof, with corresponding upper additional passage ways adjacent to the inlet ends thereof, rods loosely contained in the lower ones of said additional passage ways, and fuel supply pipes arranged to discharge into said lower ones of said additional passage ways, in combination with means communicating with the discharge ends of said additional upper passage ways to direct gaseous contents of said passage ways into one of the open ends of said central passage way.

1,472,606. RAIL JOINT. SAMUEL MCFARLAND, Coatesville, Pa. Filed May 18, 1921. Serial No. 470,730. 5 Claims. (Cl. 238—215.)



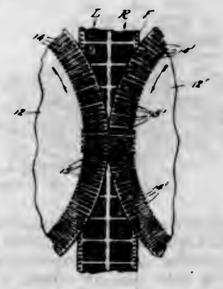
5. A rail joint comprising an integral body having a base plate spanning two ties, side flanges fitting the fishing spaces of the rails, a circular socket at the junction of the rails, and a rotary removable wearing member fitted in said socket.

1,472,607. VEHICLE BODY CONSTRUCTION. JAMES MCGLASHAN, York, Pa., assignor to Martin-Parry Corporation, York, Pa., a Corporation of Delaware. Filed Jan. 3, 1922. Serial No. 526,520. 3 Claims. (Cl. 296—28.)



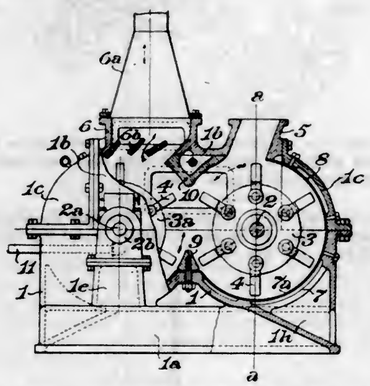
2. A vehicle body panel construction comprising a frame embodying boundary members secured to each other with their outer surfaces in substantially the same plane and with a normally resonant covering of sheet metal attached thereto with the inner faces of its edges coplanar therewith, an auxiliary frame member bowing said sheet metal covering out of said plane except at its edges, and a non-resonant layer of fabric secured to and damping the resonance of the sheet metal covering.

1,472,608. MOTION-PICTURE MACHINE. ALBERT C. MACBETH, Seattle, Wash., assignor of one-half to Charles T. Orange, Seattle, Wash. Filed July 3, 1922. Serial No. 572,382. 5 Claims. (Cl. 88—16.6.)



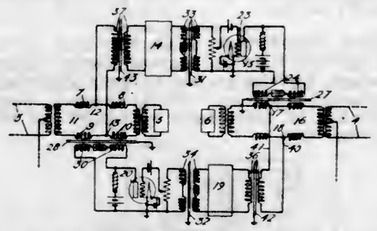
5. In a stereoscopic motion picture machine, a film provided with pairs of complementary complete pictures taken from two different view points, and regulating means whereby a plurality of spaced fractional portions of one picture of each pair are exhibited simultaneously with the alternate portions of the complementary picture of the pair.

1,472,609. PULVERIZING MACHINE. STANTON C. MARTIN, Erie, Pa. Filed Apr. 13, 1923. Serial No. 631,773. 3 Claims. (Cl. 83—11.)



1. A pulverizing machine adapted for either fine or coarse work, comprising a double semi-cylindrical casing, parallel rotary hammers in said casing, a material inlet pipe leading into one part of the casing, said part having also a discharge outlet, a deflector at the top of the casing between the two parts thereof, and a removable perforated screen over said outlet, through which coarsely pulverized material is discharged, the hammers in this case being rotated in opposite directions.

1,472,610. TRANSMISSION CIRCUITS. ROBERT C. MATHES, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 4, 1919. Serial No. 342,322. 7 Claims. (Cl. 179—171.)

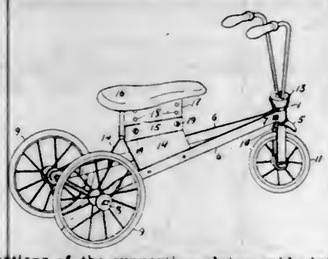


1. A two-way repeating system comprising a unidirectional path for repeating in one direction, a second unidirectional path for repeating in the opposite direction and means for substantially eliminating singing comprising a transformer in each of said paths, each of said transformers having a grounded shield.

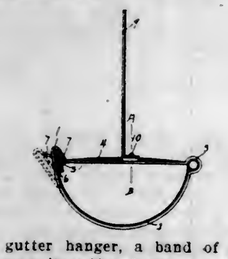
1,472,611. CHILD'S VEHICLE. CLEMENT J. METTLER, Fort Wayne, Ind. Filed Mar. 1, 1920. Serial No. 362,252. 3 Claims. (Cl. 208—113.)

1. In a device of the class described, a frame including a head and divergent reaches; an axle supporting the reaches at the rear end thereof; a wheel on each end of the axle; a steering fork having a wheel mounted therein and having a post extending through the head; a steering member fixed on the post for turning the fork; a pair of supporting plates, the lower marginal portions of which are fixed respectively on said reaches, the upper marginal portions thereof being parallel with each other

and spaced apart; and a seat including a downwardly extending plate adjustably secured between the upper marginal portions of the supporting plates, said plates being adapted to rigidly support the seat and also hold the reaches divergently spaced apart.

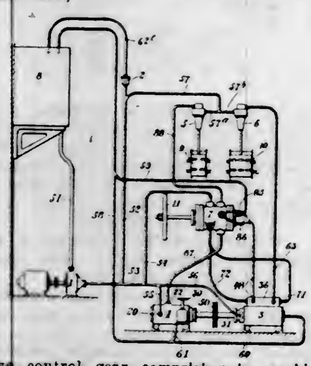


1,472,612. GUTTER HANGER. WILLIAM F. MORHOFF, Madison, Wis. Filed Apr. 9, 1923. Serial No. 631,031. 1 Claim. (Cl. 108—29.)



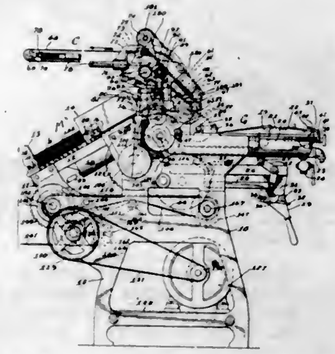
In an eave gutter hanger, a band of flexible metal bent backward upon its self and spaced to form a loop at one end, a tongue pressed forward and depending from the inner member of the loop forming an aperture, said band thence curved downward into a semi-circle, thence curvated backward to a horizontal bridge which extends backward terminating in a neck and hook adapted to be locked in the aperture by forcing downward the end of the tongue upon the neck, in combination with a strap secured to the bridge, for fastening the hanger to the eaves of a building.

1,472,613. HYDRAULIC GEAR FOR THE CONTROL OF ENGINE VALVES. ANDREW IRVING NICHOLSON, Greenock, Scotland, assignor to Scotts Shipbuilding & Engineering Company, Limited, Greenock, Scotland. Filed Aug. 10, 1920. Serial No. 402,583. 26 Claims. (Cl. 121—157.)



1. Valve control gear comprising in combination, a valve operating device, a pressure generating device, a distributing device, a device for controlling the action of the distributing device and fluid carrying means operatively connecting the whole of said devices.

1,472,614. MACHINE FOR GUMMING AND CONVEYING BLANKS. CHARLES H. NITSCH, Logan, and THEODORE A. FEDERWITZ, Nicetown, Pa., assignors to Stokes & Smith Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 2, 1921. Serial No. 519,418. 22 Claims. (Cl. 271—78.)



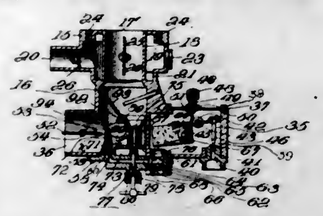
4. In an apparatus of the class described, means for feeding articles, means for conveying the articles the distance from the said feeding means to a delivery station and means for varying the period of conveyance of an article over the said distance without changing the operating conditions of the feeding means.

7. In an apparatus of the class described, means for feeding blanks, means for conveying the blanks from the said feeding means to a delivery station and means for predetermining the spacing of blanks on the conveying means.

8. In an apparatus for gumming blanks and conveying the same to a delivery point, means for gumming the blanks, and variable intermittently operable conveying means for receiving the gummed blanks and conveying the same to the delivery point.

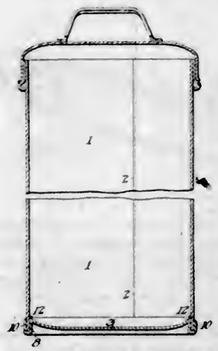
20. In an apparatus for gumming blanks and conveying the same to a delivery point, means for gumming the blanks, means for conveying the gummed blanks from the gumming means to a delivery station, provisions for operating the gumming means, a clutch mechanism connecting the said provisions with the conveyer, adjustable instrumentalities for operating the clutch mechanism in a predetermined manner whereby the conveyer may be intermittently operated and the intermittent operation varied and means for adjusting the said instrumentalities.

1,472,615. CARBURETOR. BURT NEULON PIERCE, Boston, Mass. Original application filed Feb. 18, 1915. Serial No. 9,029. Divided and this application filed Jan. 9, 1918. Serial No. 211,029. 3 Claims. (Cl. 261—12.)



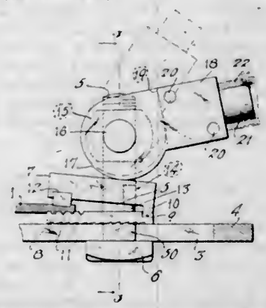
2. A carbureter for an internal combustion engine comprising a casing having a mixing chamber provided with an outlet, a heating jacket surrounding said outlet provided with an inlet and an outlet, a member having an air passage for delivering air to said mixing chamber, a nozzle arranged in said passage, a jacket surrounding said air passage having an inlet and an outlet, a pipe connecting the outlet with the first mentioned jacket to the inlet of the second mentioned jacket and a movable apertured member arranged over the outlet of the last mentioned jacket.

1,472,616. PROCESS OF MAKING METALLIC CANS AND ARTICLES PRODUCED. WALTER H. RICHMAN, Philadelphia, Pa. Original application filed Nov. 20, 1919, Serial No. 329,446. Divided and this application filed Oct. 4, 1921. Serial No. 505,345. 4 Claims. (Cl. 113—116.)



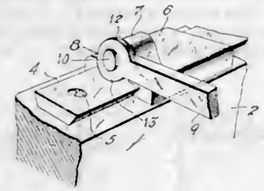
1. The method of making a solderless ice cream can, which includes forming a cylindrical tubular can body by bending and butt welding opposite edges of a primarily flat sheet of metal; outwardly flaring the bottom end of said body; forming a bottom closure for said body by die pressing a primarily flat circular disk of metal to offset the central portion thereof, to render said central portion of concavo-convex form with a cylindrical wall connected therewith by a rounded corner and merging into a plane marginal flange; deforming said bottom closure corner by pressing and swaging the same to an acute angle with respect to said wall and substantially sharp edge; forcing the offset portion of said bottom closure into said lower end of said body to the extent of the wall on said closure; thereby drive fitting said sharpened closure edge against the inner wall of said body; pressing said body inwardly opposite to said closure edge and wall; upturning the flange on said closure against the cylindrical lower edge of said body and pressing it inwardly into contact with said body; spot welding said closure flange to said body; thereafter contemporaneously coating the outer and inner surfaces of said can by immersing it in a molten tin bath.

1,472,617. CLAMP FOR STRETCHING LEATHER AND THE LIKE. JAMES M. SCHWARTZ, Boonton, N. J., assignor to Schwartz Belting Co., a Corporation of New York. Filed June 8, 1922. Serial No. 566,786. 6 Claims. (Cl. 24—250.)



1. In a stretching machine, the combination with a support, of clamping jaws to receive a piece of material to be stretched, and a quick clamping and releasing member cooperating with said jaws to simultaneously clamp a piece of material in said jaws and said jaws against movement on said support.

1,472,618. ADJUSTABLE CLAMP FOR THE EDGES OF LEATHER AND THE LIKE. JAMES M. SCHWARTZ, Boonton, N. J., assignor to Schwartz Belting Co., a Corporation of New York. Filed June 8, 1922. Serial No. 566,787. 5 Claims. (Cl. 24—248.)



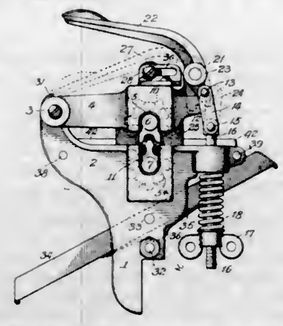
1. An adjustable clamp comprising a base, a body portion adjustable endwise on said base, and a clamping means mounted on the end of said body portion and overlying said base to clamp a piece of material against said base and simultaneously lock said body portion in adjusted position on said base.

1,472,619. CLAMP. HENRY F. STARRETT, Chicago, Ill., assignor to Starrett Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Dec. 30, 1920. Serial No. 434,169. 10 Claims. (Cl. 292—256.)



1. In a device of the character described, in combination, a clamping member, a nut secured in said clamping member, means to secure said clamping member to the surface to be clamped, said nut being provided with means to effectively increase the resistance offered to the aforesaid means after it has been introduced into said nut an appreciable distance.

1,472,620. WRINGER. WILLIAM H. VOSS, Davenport, Iowa. Filed Apr. 9, 1920. Serial No. 372,434. 7 Claims. (Cl. 68—32.)

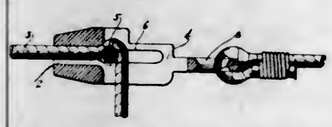


1. In a wringer, the combination of coacting rolls, relatively movable roll supporting members, said rolls being rotatable in said members, means normally holding said rolls together, said means comprising a resiliently movable part on one of said members, a projection on the other of said members, a holding element pivotally connected to said part and engaging said projection for holding said rolls together, and manu-

ally movable means on one of said members and movable to disengage said holding element from said projection.

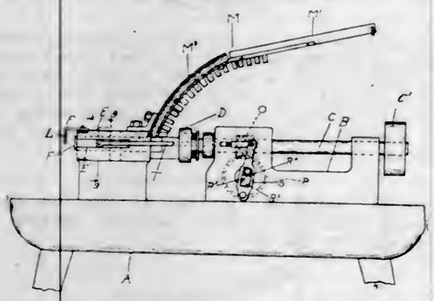
6. In a wringer, an arm carrying a roll approximately centrally, said arm extending transversely of the roll, an arm pivoted at one end to one end of the first named arm and carrying a roll to co-operate with the first named roll, said rolls each carrying a gear, and a gear casing connected to the pivoted arm and enclosing the said gears.

1,472,621. LINE CONNECTER AND ADJUSTER. GEORGE C. WHITTLES, Lyndhurst, N. J., assignor of one-half to Gustave Soderstrom, Newark, N. J. Filed Nov. 21, 1921. Serial No. 516,584. 2 Claims. (Cl. 24—136.)



1. A device of the character described including a body portion having an opening therethrough intermediate its ends, and a second opening meeting said first-mentioned opening intermediate the ends of the latter and at an angle thereto, and a clamping bar mounted in said body portion to move in a direction longitudinal of said second-mentioned opening, whereby a line or the like may be threaded through said openings and said bar clamp said line between itself and the meeting point of said openings.

1,472,622. SCREW-CUTTING MACHINE. WALTER H. YOUNG, Detroit, Mich. Filed Apr. 1, 1920. Serial No. 370,488. 16 Claims. (Cl. 10—89.)

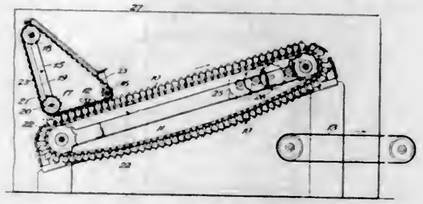


1. The combination with a revoluble spindle having a threading cutter mounted thereon, of a non-revoluble work-holding plunger in axial alignment therewith, means for longitudinally reciprocating said work holding spindle, means actuated by said revolving spindle for operating said reciprocating means, and a friction clutch in said actuating means for permitting movement of the work at a speed corresponding to the pitch of the thread.

6. The combination with a revoluble spindle and a threading cutter mounted thereon, of a work-holding plunger mounted for reciprocation in axial alignment with said revolving spindle, work-clamping jaws mounted on said plunger, means for feeding work blanks adjacent to said jaws, a transfer device actuated upon the outward movement of said work holding plunger for forcing a blank from said work feeding means into engagement with said jaws, and means operating upon the advancement of said plunger towards the cutter for locking said jaws.

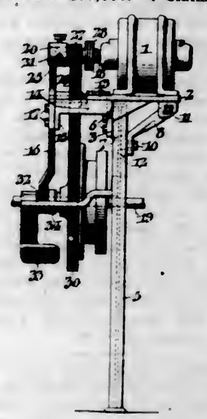
13. In an automatic thread cutting machine, a reciprocatory work holder comprising a pair of work engaging jaws, means yieldably urging said jaws toward each other to establish an initial engagement of the jaws with the work, and means engageable with said jaws to maintain them unyieldingly engaged with the work during thread cutting.

1,472,623. MACHINE FOR CASTING METAL PIGS OR BARS. EDWARD H. ACTON, Niagara Falls, N. Y., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 6, 1920. Serial No. 422,138. 7 Claims. (Cl. 22—62.)



1. In a casting machine, in combination, a delivery spout for molten metal, a series of molds traveling past the spout to receive molten metal therefrom, and a series of reflectors traveling with the molds between the same and the spout in a path diverging from the path of the molds, the deflectors being spaced from the molds and overhanging the adjacent edges of successive molds, for the purpose set forth.

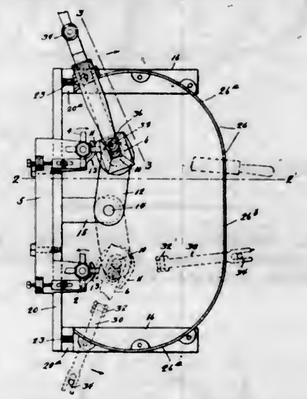
1,472,624. COMBINED POWER AND TRANSMISSION UNIT. CARL A. BAER, Philadelphia, Pa. Filed June 22, 1921. Serial No. 479,608. 7 Claims. (Cl. 74—7.)



1. A combined power and transmission unit comprising a motor; a support for the motor adapted to be secured to the frame of the apparatus or machine which is to be driven; an extension arm secured to the motor base with capacity for vertical adjustment; a bracket secured, in turn, to the extension arm with capacity for horizontal adjustment; and a train of gears mounted on said bracket for transmitting power from the motor to the driving shaft of the apparatus or machine.

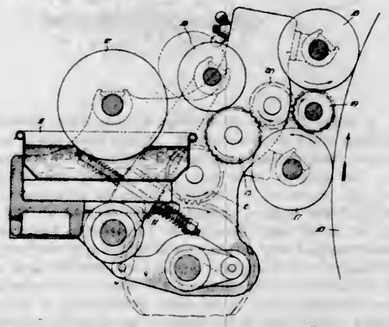
1,472,625. WOOD-HEEL-TURNING MACHINE. EMILE W. BAILLY, Haverhill, Mass. Filed Apr. 24, 1923. Serial No. 634,279. 7 Claims. (Cl. 12—87.)

1. In a heel turning machine, a cutter mounted to rotate about a vertical axis, a heel blank holder mounted at one end to swing horizontally and vertically about vertical and horizontal pivots located adjacent said axis and having a longitudinally extending supporting face arranged to decline from the horizontal as it extends from said pivots, a track arranged to permit said face to rest thereon and support said holder as it is swung horizontally from its initial to its extreme position, said track extending in divergent relation with the path of the point on said face which engages the track when the holder is in its initial position, to vary the point of engagement of the track with said face as the holder is moved horizontally, thereby to cause the horizontal and vertical swinging movements of the holder to be made in a predetermined ratio.



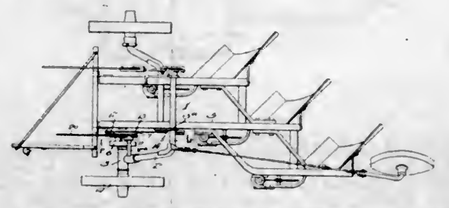
7. In a heel turning machine, a cutter mounted to rotate about a vertical axis, a blank holder mounted at one end to swing horizontally and vertically about vertical and horizontal pivots located adjacent said axis, a track for supporting said holder during its horizontal swinging movement, to cause a predetermined vertical swinging movement thereof, an angular bracket for supporting said track, comprising a base portion and an arm portion on which the track is directly supported, an upright, a clamping screw engaging said base portion and threaded in said upright, a pair of set screws threaded in said base portion above and below said clamping screw, respectively, and engaging said upright to vary the inclination of said bracket and correspondingly vary the inclination of said track from the horizontal, and a vertically disposed screw arranged to engage said bracket to adjust the same vertically.

1,472,626. WATER FOUNTAIN. JOSEPH R. BLAINE, Chicago, Ill., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 24, 1921. Serial No. 494,993. 2 Claims. (Cl. 101—148.)



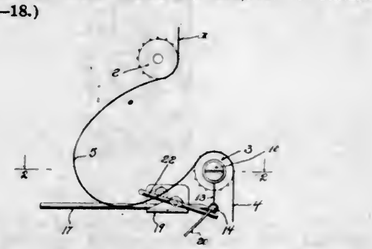
1. In a printing press, the combination of a plate cylinder, a water receptacle, means for conveying water from said receptacle to said cylinder including a plurality of rolls engaging the cylinder and an intermediate roll, water being supplied to one of the cylinder engaging rolls and some water being supplied from said first cylinder engaging roll by said intermediate roll to another cylinder engaging roll whereby water is supplied to and distributed on said cylinder, a gear for driving one of said cylinder engaging rolls, and a separate gear for driving the intermediate roll.

1,472,627. POWER LIFT FOR PLOWS. JOSEPH BODA, Moline, Ill., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Filed Mar. 13, 1919, Serial No. 282,325. Renewed Jan. 15, 1921. Serial No. 437,629. 4 Claims. (Cl. 97—73.)



2. A powerlift plow having plow beams, a crank axle carrying a supporting wheel, lifting mechanism for swinging the axle relative to the plow beams, said mechanism including a clutch mounted on an axis substantially coincident with the axis of the supporting wheel, and controlling means for the clutch including a lever adapted to be momentarily tripped by a cable or the like, said controlling means serving, when the lever is momentarily actuated when the plows are lowered, to operate the clutch to set the lifting mechanism into operation and automatically stop and lock it with the plows in raised position, and means associated with the lifting mechanism for limiting the movement of the lever when it is momentarily actuated with the plows in raised position so that its actuation will unlock the plows, but will not set the lifting mechanism into operation.

1,472,628. AUTOMATIC LOOP SETTER FOR MOVING-PICTURE MACHINES. FRANK BONK, Jr., Ripon, Wis. Filed Jan. 27, 1922. Serial No. 532,342. 3 Claims. (Cl. 88—18.)

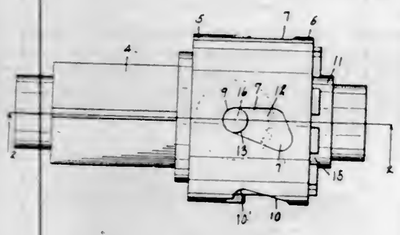


1. In a moving picture machine, a roller over which the loop of the film advances, a drive shaft on which the roller is mounted, a clutch for connecting the roller to the shaft to rotate therewith, means for automatically shipping the clutch when the size of the loop reaches a predetermined minimum, and means for functionally engaging said roller to stop it when the clutch is slipping.

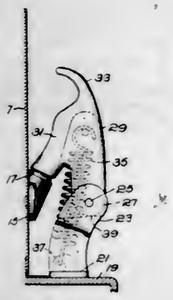
1,472,629. DIFFERENTIAL GEAR FOR AUTOMOBILES. CHARLES C. BOOMSLITER, Grand Rapids, Mich. Filed May 23, 1922. Serial No. 562,952. 4 Claims. (Cl. 74—99.)

1. The combination with a differential gearing and the driving axles therefor, of a differential sleeve enlarged into a cylindrical shell or housing with seats for carrying

the parts, the shell being internally screw-threaded at its outer end and the said housing being slotted at each quarter longitudinally with elongated slots, one adjacent pair having symmetrical laterally-extended loop portions at the outer ends and the opposed adjacent pair having their inner ends expanded, to accommodate the assembling of the differential gearing therein, a differential hub expanded and terminated in a cylindrical housing member adapted to fit within the shell of the main housing member, and a screw ring suitably castellated engaging the threads within the shell for clamping the said housing members together, all coacting substantially as described for the purpose specified.



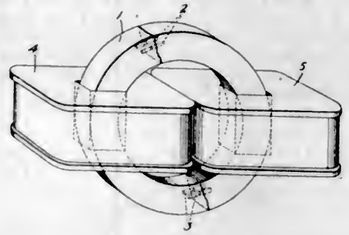
1,472,630. FASTENER FOR AUTOMOBILE HOODS AND THE LIKE. DAVID BOURQUE, Amesbury, Mass., assignor to G. W. J. Murphy Company, Amesbury, Mass., a Corporation of Massachusetts. Filed Dec. 13, 1919. Serial No. 344,541. 3 Claims. (Cl. 292—128.)



1. In a motor vehicle a hood having a depending flap provided with an interior support, upwardly presented diagonal abutments adjacent the lower edge of the flap and means for pressing the flap downwardly and inwardly on its support comprising pivoted latches mounted exteriorly of the hood and having bill portions adapted to close downwardly on said abutments and springs tending to swing the latches about their pivots for holding said latches with the bills in engagement with the abutments.

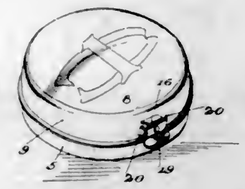
1,472,631. MAGNETIC COIL. HERMAN N. BOWMAN, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 24, 1921. Serial No. 447,499. 5 Claims. (Cl. 171—242.)

1. The method of varying the inductance of a magnetic coil having a core composed of a plurality of parts, and air gaps between the parts, and a plurality of windings on said core, which consists in varying the position of



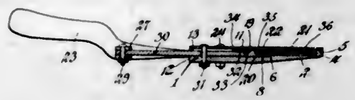
said windings upon said core with relation to said air gaps.

1,472,632. SHOE-POLISH CONTAINER. FRANK P. BUDD, Bonesteel, S. Dak. Filed May 27, 1922. Serial No. 564,012. 3 Claims. (Cl. 220—43.)



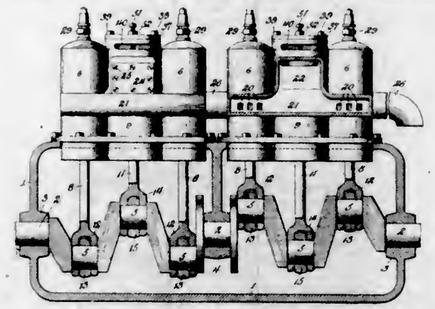
1. The combination of a can, a cover therefor, a tongue formed integrally with the cover and inclusive of upwardly and inwardly directed portions, and a key carried by the upwardly directed portion of said tongue and constituting a means to elevate the cover, the inwardly directed portion of said tongue being adapted to contact with the side of the cover whereby to limit the inward movement of the key.

1,472,633. HEDGE TRIMMER. ROBERT A. CORDELL, Norfolk, Va. Filed May 26, 1922. Serial No. 563,941. 2 Claims. (Cl. 30—11.)



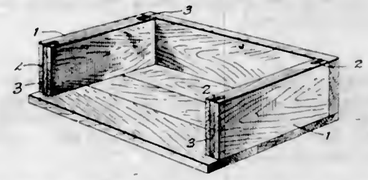
1. A hedge trimmer comprising a base plate, forwardly-extending rigid fingers carried by the base plate at one side and terminating in enlarged heads which are raised above the fingers, said base plate having spaced transverse ribs defining a channel which is arranged transversely of the fingers, spacing beads formed on the base plate, a cutter bar adapted to reciprocate transversely in said channel and having teeth which are shorter than said fingers, a cover plate adapted to rest on said beads and the heads at the ends of the fingers and supported above the cutter bar, said plate conforming in shape to the base plate and to the fingers and having forwardly-extending fingers with enlarged heads to cover the fingers and heads of the base plate, and manually operated means for reciprocating the cutter bar.

1,472,634. EXPLOSION ENGINE. IRA CUNNINGHAM and ROY W. WAY, Covington, Okla. Filed Mar. 15, 1920. Serial No. 365,794. 8 Claims. (Cl. 123—60.)



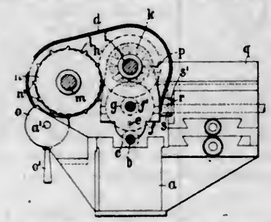
1. A two-cycle engine unit comprising two power cylinders and a pump cylinder cast in one piece, and having a fuel duct leading directly from the pump cylinder to the power cylinders, said fuel duct leading downwardly and outwardly and constituting an intake manifold cast integrally with and upon the communicating side only of the pump and power cylinders.

1,472,635. PACKING CASE OR BOX STRUCTURE. ERNEST STUART DANIELS, Washington, D. C. Filed Feb. 15, 1923. Serial No. 619,304. 5 Claims. (Cl. 217—5.)



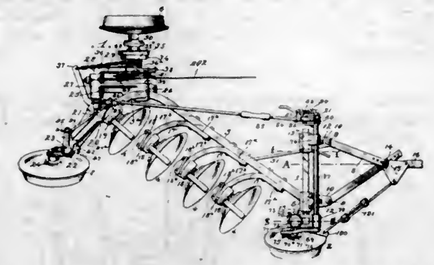
1. A packing case or box constructed with end-pieces of wood, one of said end-pieces having formed in one end thereof a transverse groove extending substantially throughout the width of said end piece, and a strip of wood secured in said groove with the grain of the strip running at an angle crosswise to the grain of said end-piece.

1,472,636. BACKING-OFF LATHE. JOSEF DICKESCHEID, Mainz, Germany, assignor to the Firm; Dr. H. Zehrlaut & Co., Mainz, Germany. Filed Aug. 29, 1921. Serial No. 496,614. 6 Claims. (Cl. 82—19.)



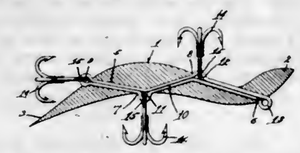
1. A backing-off lathe, comprising, in combination, a driving shaft, a driving wheel on said driving shaft, a saddle adapted to oscillate in regard to said driving shaft, a shaft journaled in said saddle, said shaft being in geared connection with said driving wheel a stud on the free end of said shaft, said stud being adapted to receive the cutter blank to be backed off, a tool carriage arranged opposite said shaft, a cam disc being in geared connection with said driving wheel, and a curve disc adapted to coact with said cam disc.

1,472,637. WHEELED PLOW. HARRY S. DICKINSON, Moline, Ill., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Filed July 25, 1918. Serial No. 246,640. 16 Claims. (Cl. 97—73.)



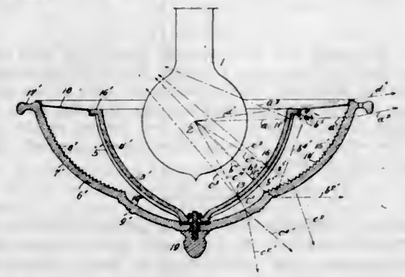
1. In a plow, the combination of a frame adapted to carry plowing devices, a wheel support mounted on the frame and movable relatively thereto to raise and lower the plowing devices, a ground wheel rotatable on said support, means operated by the rotation of the ground wheel for moving said wheel support, a clutch for controlling the operation of said means, a rack bar carried by the wheel support, a locking device for the rack bar mounted on the frame, a controlling lever for the locking device, and a connection between the controlling lever and clutch.

1,472,638. ARTIFICIAL FISH BAIT. RICHARD F. DICKMAN, Bristol, Ind. Filed Oct. 30, 1922. Serial No. 597,890. 2 Claims. (Cl. 43—46.)



2. A bait of the class described having a body in the form of a compound curve with a bore extending longitudinally therethrough in a zig-zag direction with one end opening through the upper face of the body near the tail thereof and the other through its lower face near the head, a wire threaded through said bore with loops projecting at various points, and hooks carried by said loops.

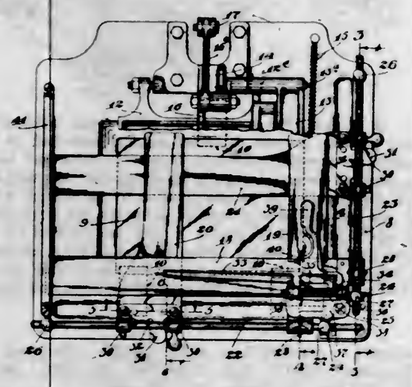
1,472,639. INDIRECT-LIGHTING UNIT. WILLIAM A. DOREY, Newark, Ohio, assignor to Holophane Glass Company, Inc., New York, N. Y., a Corporation of New Jersey. Filed Nov. 6, 1920. Serial No. 422,269. 4 Claims. (Cl. 240—78.)



1. A device for indirect lighting consisting of a light source, an interior upwardly facing reflector having reflecting prisms on its outer surface and a separate shade

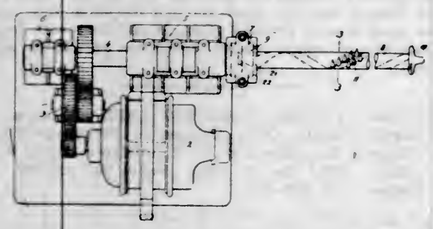
surrounding the same, the reflector being adapted to reflect the major portion of light rays incident thereon upwardly in a zone about the axis of the fixture limited in angles by interference of the fixture and the body of the reflector, and the shade having on its inner surface horizontal light directing prisms adapted to receive and direct light rays transmitted through the reflector at angles to obliterate the shadow formed by the edge of the reflector.

1,472,640. PHOTOPRINTING MASK. GLEN M. DYE, Minneapolis, Minn. Filed June 19, 1919. Serial No. 305,372. 22 Claims. (Cl. 95—79.)



13. A photoprinting device having in combination, a frame, a transparent plate therein constituting a light opening, a mask strip adjustable on said plate and a combined negative clamp and paper guide above said plate adapted to clamp the negative against the mask strip.

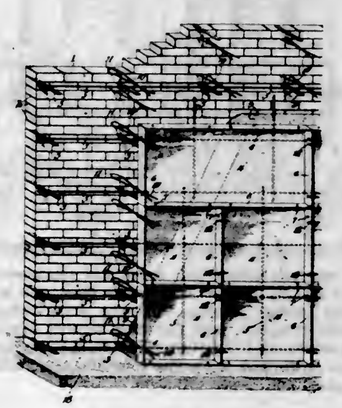
1,472,641. COAL-CUTTING MACHINE AND TOOL. IGO ETRICH, Grunwald, near Munchen, Germany, and Rudolf Wannenmacher, Trautenau, Czechoslovakia. Filed Mar. 28, 1923. Serial No. 628,366. 3 Claims. (Cl. 262—25.)



1. A cutting tool for machines for cutting coal, rock, and the like, comprising a carrier, and a cutting member directed forwardly from said carrier and at an acute angle to the cutting direction and tapering from the carrier forwardly into a point and formed at the side of the carrier with an edge extending from a part near the carrier to the point.

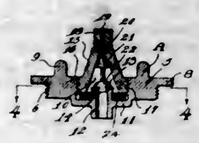
1,472,642. COMPOSITE WALL AND METHOD OF CONSTRUCTING IT. WILLIAM LEWIS EVANS, Jr., Washington, Ind. Filed May 4, 1921. Serial No. 466,843. 11 Claims. (Cl. 72—19.)

11. A composite wall comprising a masonry facing of less thickness than the full thickness of the wall, spacers embedded in said facing and extending inwardly from the latter to the full thickness of the wall, tie wires connected to the masonry wall and extending inwardly therefrom, and a concrete backing in contact with the



facing and embedding the spacers and tie wires and together with the masonry facing constituting the full thickness of the wall.

1,472,643. COMBINED FILLER PLUG AND VALVE. HERBERT D. FLEMING and LEO F. MATTHEWS, New Kensington, and EDGAR C. FLEMING, Renfrew, Pa. Filed Mar. 13, 1922. Serial No. 543,500. 4 Claims. (Cl. 158—50.1.)

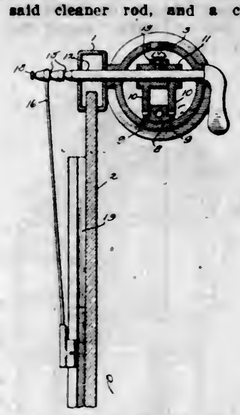


2. In a combined filler plug and pressure valve for fuel tanks, a plug body having a chamber formed in the upper face thereof and communicating with the lower face thereof, the side wall of said chamber being provided with threads, a conical valve casing provided with a valve seat and a port open to the atmosphere, removably associated with the chamber and having threads for engaging the threads formed on the side wall, and a gravity operated valve disposed in the chamber and arranged to fit upon the seat when pressure acts against the lower surface thereof.

1,472,644. WINDSHIELD CLEANER. FRED G. FOLBERTH and WILLIAM M. FOLBERTH, Cleveland, Ohio, assignors to The Folberth Auto Specialty Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed May 11, 1921, Serial No. 468,486. Divided and this application filed Nov. 17, 1921. Serial No. 515,911. 5 Claims. (Cl. 15—253.)

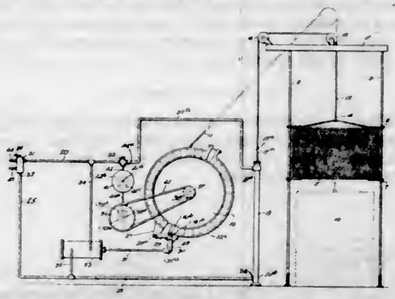
1. In a windshield cleaner, a motor, a cleaner shaft operated by said motor and a cleaner rod adapted to be secured to said shaft, said shaft being provided with a

plurality of openings adjacent its outer end for selective reception of said cleaner rod, and a circumferential



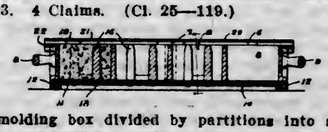
groove arranged outwardly of one of said openings, whereby the section of said shaft outwardly of said groove may be readily removed.

1,472,645. GATE. WILLIAM P. FOLEY and RALPH W. KNUPP, Somerset, Pa. Filed June 7, 1921. Serial No. 475,846. 4 Claims. (Cl. 39—8.)



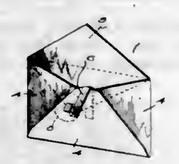
1. A device for the purpose set forth comprising an elevator shaft gate lifting member normally in inoperative position and shifted to such position by the weight of the gate, a cylinder provided with a pressure operated piston connected to said member, conducting pipes opening into said cylinder above and below said piston and each providing for supply and exhaust, a releasable valvular element mounted in one of said pipes for arresting the operation of said piston when the elevator is between landings to prevent the shifting of said member from inoperative position, a valve mechanism for controlling supply and exhaust through said pipes, and means operated from the hoisting mechanism of the elevator when the latter reaches the landing for releasing said valvular element whereby on the operation of said valve mechanism to one position said piston will be shifted to move said member to operative position.

1,472,646. MOLDING FLASK. GEORGE A. GLENN, Lawndale, Pa. Filed June 10, 1922. Serial No. 567,353. 4 Claims. (Cl. 25—119.)



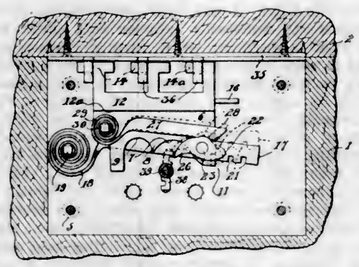
1. A molding box divided by partitions into a series of moulds and having a perforated face covering attached thereto, in combination with a removable bottom frame for providing a dumping clearance.

1,472,647. ENVELOPE CLOSURE. JAMES H. GOODIER, New York, N. Y. Filed June 14, 1921. Serial No. 477,443. 3 Claims. (Cl. 229—79.)



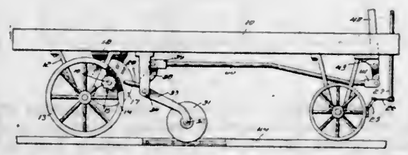
1. An envelope having side flaps, a top flap, and a bottom flap, a tongue secured to the inner side of the bottom flap, and a seal carried by said tongue adapted to be arranged over the overlapping portions of the top flap and bottom flap when the envelope is closed.

1,472,648. LOCK. MICHAL GRABAREK, Marquette, Mich., assignor of one-half to Samuel Novak, Marquette, Mich. Filed Feb. 15, 1923. Serial No. 619,153. 7 Claims. (Cl. 70—27.)



1. In a lock of the type described, a sliding lock bolt, a keeper therefor, a tensioned arm associated with the lock bolt for retaining the same in different positions, said bolt being constructed whereby sliding movements thereof in opposite directions are required prior to shifting to a released position.

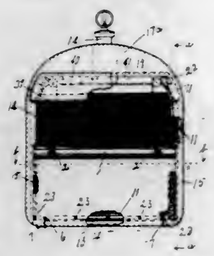
1,472,649. FREIGHT-HANDLING TRUCK. EDWIN B. GRACE and WILLIAM J. LAFFEY, Memphis, Tenn. Filed July 16, 1921, Serial No. 485,242. Renewed Sept. 15, 1923. 2 Claims. (Cl. 104—171.)



1. A power driven truck comprising a wheeled body, an electric motor supported from the under side of said body and operably associated with certain of the wheels thereof for propelling said body, a rock shaft pivotally supported from the under side of said body, a trolley head fixed to and suspended from said shaft and arranged under said body and adapted to electrically connect said motor with a source of supply, and a hand operated lever mechanism extended below said body

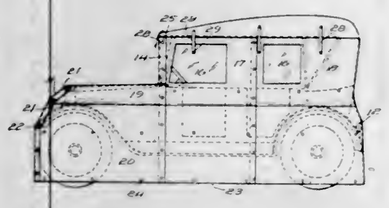
and connected to said shaft for rocking the latter whereby the head will be bodily carried with the shaft and be shifted from and to operative connection with the sources of supply.

1,472,650. RADIATOR COVER. REUBEN FELIX HOFFMAN, Hamilton, Ohio. Filed Mar. 24, 1919. Serial No. 284,729. 5 Claims. (Cl. 257—132.)



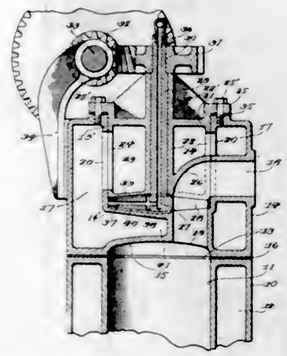
2. In a device of the character specified, the combination with a shield having a front opening, a frame secured to the edges of said shield surrounding said opening, means for detachably securing said shield and its frame upon a radiator, of a curtain having one end secured to said frame, a bar secured to the opposite end of said curtain, winding members in said curtain disposed in its longitudinal direction to maintain the curtain normally wound, a cable having its extremities secured to said curtain bar and normally wound with said curtain and having its remaining portion extending to the dashboard of a vehicle, means upon said shield frame cooperating with means upon the vehicle frame and dashboard for guiding said cable, and coordinating and simultaneously operable equalizing and retention devices upon the dashboard for controlling said cable and curtain, whereby to effect varying degrees of covering and uncovering of said shield opening by said curtain.

1,472,651. AUTOMOBILE COVER OR GARAGE. LEWIS C. HOLLING, St. Louis, Mo. Filed Feb. 9, 1922. Serial No. 535,351. 3 Claims. (Cl. 296—136.)



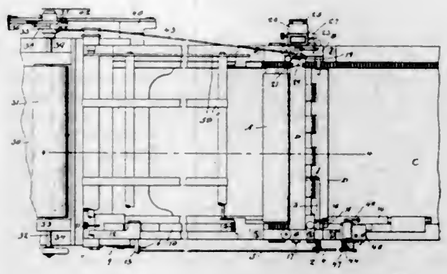
1. A supplementary automobile cover comprising side, front and rear cover members mounted exteriorly to the normal curtain installation of the vehicle and of a length to extend to a level below the axle and running boards of the vehicle to house or cover the exterior of the vehicle and its curtains, means for suspending said members at their upper ends from the top of the vehicle, said front cover member having openings for the headlights and windshield of the vehicle, said rear cover member having an opening for the rear window of the vehicle and an opening for the tail light of the vehicle, and means for detachably connecting said cover members together to maintain them in housing position with respect to the vehicle.

1,472,652. ENGINE VALVE AND CASING. CHARLES C. HUGHES and ROLAND O. BETTERLY, Philadelphia, Pa. Filed Feb. 7, 1922. Serial No. 534,753. 3 Claims. (Cl. 123—80.)



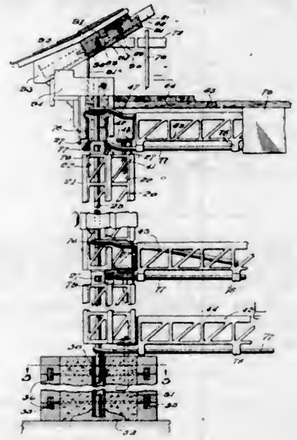
1. The combination with an engine cylinder, having a removable head at the top, a depending cage supported in the head, a removable casing in the cage and having a water jacket therearound, the casing and cage having inlet and exhaust ports and a valve movable in the casing and having ports registering intermittently with the ports of the casing and cage.

1,472,653. COUNTING ATTACHMENT FOR PRINTING PRESSES. JOHN DAVID HUNT, Toronto, Ontario, Canada. Filed June 23, 1922. Serial No. 570,486. 2 Claims. (Cl. 271—56.)



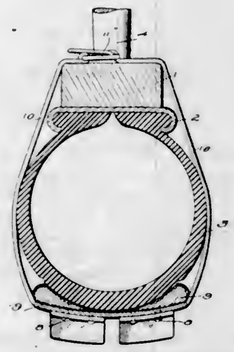
1. In a machine of the class described, the combination with a paper-feed bail; feeding and printing mechanism associated therewith; means whereby said paper-feed bail is pivotally mounted; means co-acting with said bail to dominate the movements thereof; a first conveyor, and a second conveyor embracing a ratchet-wheel-provided spindle, of a counting device; means intermediate said counting device and said paper-feed bail whereby said counting device is actuated as said paper-feed bail moves into its position when the machine is printing; a power-actuated lever mounted on said spindle of said second conveyor; a pawl carried thereby to co-act with said ratchet-wheel; a cam lever mounted on said spindle, and a rod connecting said cam lever with said means intermediate said paper-feed bail and said counting device, the whole adapted to co-operate as set forth.

1,472,654. BUILDING CONSTRUCTION. GEORGE JACKSON, New Haven, Conn. Filed Sept. 12, 1919. Serial No. 323,283. 14 Claims. (Cl. 72—76.)



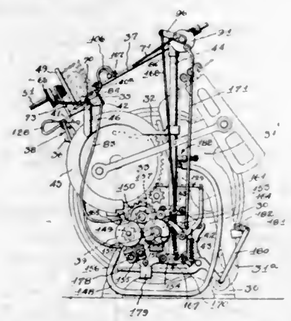
11. A column comprising a plurality of U-shaped ribbed metal sections, means connecting the sections together in stable relation, fire blocks entirely disposed about said sections, and cementitious material disposed intermediate said sections and said fire blocks.

1,472,655. WHEEL ATTACHMENT. JOSEPH KERSHAW, Joplin, Mo. Filed June 29, 1920. Serial No. 392,684. 1 Claim. (Cl. 152—14.)



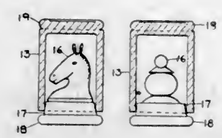
The combination with a vehicle wheel and a tire arranged thereon, said tire being substantially circular in cross section and being provided with a tread portion, of an attachment therefor comprising a plate adapted to be arranged on said tread portion, said plate being curved on a radius materially greater than the curvature of said tread portion, the width of said plate being substantially equal to the width of the tread portion, flexible pads arranged between the tread portion and said plate and shaped to fit snugly therein, gripping lugs secured to the outer face of said plate, said lugs extending partially across said plate, and attaching means therefor comprising straps arranged at each end of the plate and secured thereto, said straps being adapted to extend over the sides of the tire and to be fastened around the felly of the wheel.

1,472,656. PNEUMATIC FEEDING DEVICE FOR PRINTING PRESSES. ABEL KLUGE and ENEVAL KLUGE, St. Paul, Minn., assignors, by mesne assignments, to Brandtjen & Kluge Incorporated, St. Paul, Minn., a Corporation of Minnesota. Filed July 19, 1919. Serial No. 311,992. 37 Claims. (Cl. 101—287.)



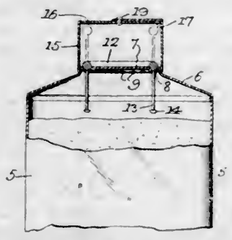
1. The combination with a printing couple of a sheet support, an eccentric, an oscillating feeding arm carried by said eccentric, a grip on the feeding arm, said arm being adapted to take a sheet from the support, deliver it in receiving position to a member of the printing couple and return to starting position, and means for rocking the eccentric to extend the arm at both extremities of its throw and to retract the same at the beginning of its swing therefrom.

1,472,657. GAME. WILLIAM W. LILLARD, Jersey City, N. J. Filed Apr. 14, 1921. Serial No. 461,438. 12 Claims. (Cl. 46—65.)



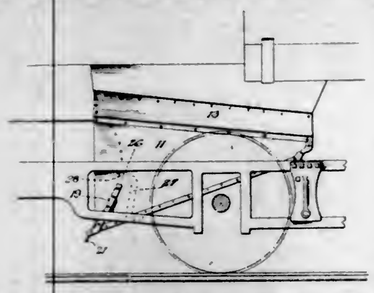
1. In a game played with chessmen, individually marked means for concealing the identities of certain chessmen.

1,472,658. RECEPTACLE FOR HOLDING POWDERED MATERIAL OR THE LIKE. ARTHUR LINDENMAYER, Lansdowne, Pa. Filed May 25, 1923. Serial No. 641,463. 6 Claims. (Cl. 221—62.)



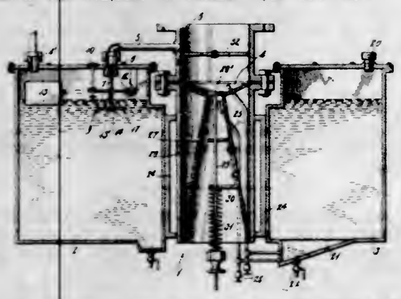
1. A receptacle comprising a body portion embodying a plate having a substantially annular set of apertures, a neck element carried by the body portion and provided with outlet means, a ring-valve mounted within the neck element and adapted to cover the annular set of apertures, and guide pins attached to the ring-valve and slidably engaging the body portion.

1,472,659. LOCOMOTIVE ASH PAN. FRANK ANTHONY MAYER, Washington, D. C. Filed Dec. 27, 1920. Serial No. 433,220. 1 Claim. (Cl. 110—167.)



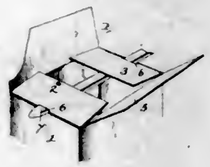
In a locomotive ash pan, the combination of a body having side and bottom walls and a rear end wall and provided with a discharge opening at the rear end of the body, brackets secured to the side walls, a door, a bar secured against the door to extend thereacross and provided at its ends with trunnions journaled upon said brackets swingingly supporting the door for movement to normally close said opening, a stationary arm provided at its upper end with a yoke having spaced members, a lever rigidly secured to one of said trunnions and freely movable between said members, the members being provided with spaced openings, and a locking pin engageable through the openings of said members and through the lever securing the door closed, the openings in said members being adapted to receive the locking pin to hold the arm in different positions of adjustment securing the door in closed position.

1,472,660. VACUUM CARBURETOR. EDWARD LAWRENCE MEISINGER, Clarion, Pa. Filed June 28, 1922. Serial No. 571,335. 2 Claims. (Cl. 158—36.)



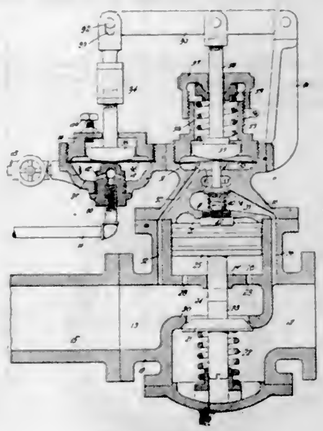
1. A carburetor having a vertical carburetting chamber open at its lower end, and an air inlet leading to said carburetting chamber with a valve for controlling the same, a vacuum supply chamber at one side of said carburetting chamber, a saddle for securing said chamber to the carburetting chamber, a suction pipe leading from the engine manifold above the throttle valve to said vacuum chamber, a float controlled valve for said suction pipe to maintain the level of fuel in said chamber constant, an independent gasoline feeding chamber disposed on the opposite side of said carburetting chamber and spaced therefrom throughout its length, an independent transverse pipe extending transversely of said carburetting chamber and spanning the gap between said vacuum chamber and said fuel feeding chamber for establishing communication between said chambers at the lower ends thereof, a check valve carried by said pipe and disposed within the fuel feeding chamber, and a fuel feeding supply pipe leading from the lower end of said fuel feeding chamber into said carburetting chamber for supplying fuel thereto.

1,472,661. BOX OR CONTAINER AND METHOD OF SEALING SAME. CHARLES CHRISTOPHER MENGEL, Louisville, Ky., assignor to The Mengel Company, Louisville, Ky., a Corporation of New Jersey. Filed July 9, 1919. Serial No. 309,624. 7 Claims. (Cl. 229—47.)



6. As a new article of manufacture, a box or container having a body rectangular in cross section with a closure flap formed at each side as a continuation thereof, two of the oppositely disposed flaps each having a slot or opening formed therein adjacent the line of bend between the flap and the body.

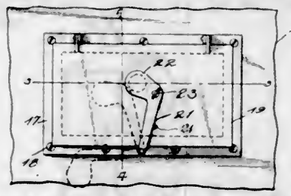
1,472,662. COMBINED PRESSURE REGULATING AND GOVERNING APPARATUS. JULES P. MATZGER, Carlstadt, N. J., assignor to The Leslie Company, Lyndhurst, N. J., a Corporation of New Jersey. Original application filed Jan. 14, 1920, Serial No. 351,352. Patent No. 1,369,690, dated Feb. 22, 1921. Divided and this application filed July 13, 1920. Serial No. 395,986. 3 Claims. (Cl. 137—153.)



1. A device of the character described including a pressure regulating apparatus adapted to control a fluid under pressure, means for adjustably setting the regulator to act at a predetermined pressure, a governing device adapted to be controlled by fluid, an equalizing lever connected to said adjustable regulator means, and an adjustable lagging action between said lever and said governing device.

1,472,663. DOOR WICKET. WALTER JOSEPH BAUER MILLER, Norfolk, Va., assignor to Whaley and Miller Company, Norfolk, Va., a Copartnership composed of Cyrus T. Whaley and Walter J. B. Miller. Filed May 18, 1922. Serial No. 561,870. 2 Claims. (Cl. 20—39.)

1. The combination with a frame; of a wicket hinged to the frame at one side thereof and provided with a judas, a latch arm pivoted to the frame at the side opposite the hinges of the wicket and swinging across the wicket to hold the same from opening, said arm being movable to uncover the wicket and permit opening there-



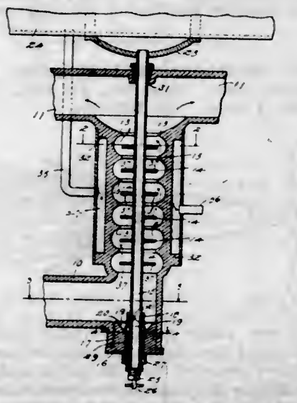
of, and an enlarged end on said arm to cover the judas in one position of the arm.

1,472,664. GOLF-BAG SUPPORT. CHARLES JOHN CUTHBERT MOON, London, England. Filed Mar. 16, 1922. Serial No. 544,313. 4 Claims. (Cl. 150—1.5.)



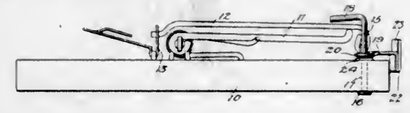
1. A golf-bag support, comprising an attachment to the rim of the bag, a frame hinged to said attachment, a lever pivoted upon said frame and rockable by hinging movement between said attachment and said frame, a rod slidable longitudinally of said frame and connected to said lever, and legs mounted upon said frame, adjacent ends of said legs being connected to said slidable rod, and other ends of said legs spread apart by the sliding of said rod.

1,472,665. FUEL VAPORIZING AND MIXING MECHANISM. FREDERICK D. MOWEN, Plainfield, N. J. Filed June 15, 1922. Serial No. 568,423. 5 Claims. (Cl. 48—180.)



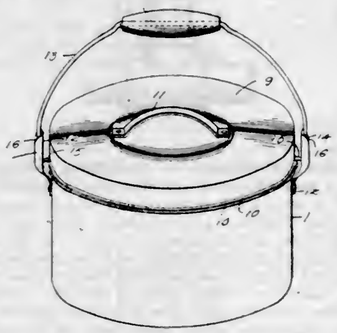
1. A fuel supply mechanism having a conduit to receive carbureted fuel, said conduit having interior baffle flanges, said conduit having exterior shoulders, a drum in engagement with said shoulders to provide a chamoer to receive exhaust products of combustion, a plug at the base of said conduit provided with a well and a bore, a sleeve screw threaded in said plug and having a port in communication with said well, an air inlet tube in said conduit adjustably mounted in said sleeve and having a port to cooperate with said port, a nut screw threaded on said sleeve in said bore, packing intermediate said nut and said sleeve, said tube being slidably mounted in the bore of the conduit, and baffle members extending from said sleeve to cooperate with said baffle flanges.

1,472,666. TESTING AND SAFETY DEVICE FOR TRAPS. THOMAS L. MUNROE, Fall River, Mass. Filed June 24, 1922. Serial No. 570,650. 7 Claims. (Cl. 43—81.)



7. The combination with a trap embodying a base, a movable jaw and a trigger actuated jaw releasing mechanism, of a testing and safety device therefor, comprising an apertured portion in the base, a pin journaled in said apertured portion for rotation and extending upwardy from the base, a fluted portion on said pin above the base, said pin having a head at its lower end engageable with the under side of the base and having an angularly disposed upper end constituting an abutment, a manipulating arm provided on said pin for rotating the same, said arm being apertured at its inner end and forced over the fluted portion of said pin to lock the same against relative rotation, said arm being bent upon itself at its free end to provide a depending stop element engageable with the end of the base for limiting the rotation of the pin whereby to dispose the angular terminal in and out of the path of movement of the movable trap jaw when the same is set or open.

1,472,667. DINNER PAIL. WINFIELD S. NELSON, Commerce, Okla. Filed June 9, 1922. Serial No. 566,998. 2 Claims. (Cl. 220—4.)



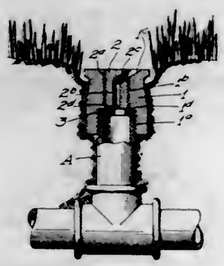
1. A dinner pail comprising a container, a vessel removably fitted within the upper portion of the container and tapering in its length to facilitate removing or placing the vessel in position and having an outer roll or extension at its upper edge to engage over the upper edge of the container to support the vessel therein, and a tray removably fitted within the upper portion of the vessel and having an outer bead or extension to overlap the upper edge of the vessel and support the tray therein.

1,472,668. CAMP STOVE. JAMES A. OLIVER, Kent, Wash. Filed July 7, 1922. Serial No. 573,318. 1 Claim. (Cl. 126—30.)



A collapsible camp stove, comprising a pointed tubular member having an open upper end, a removably secured cap for closing said end provided with a series of perforations, a plurality of separable arms adapted when not in use to be housed within the tubular member and retained entirely within the same by the cap, an end of each arm being angularly bent and insertible in a perforation in the cap, so as to support the arm horizontally in radial position with respect to the tubular member.

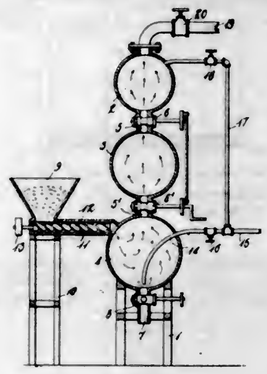
1,472,669. SPRINKLER NOZZLE. LESLIE OVERBAUGH, San Diego, Calif. Filed Apr. 5, 1922. Serial No. 549,755. 4 Claims. (Cl. 299—60.)



1. In a sprinkler nozzle, the combination with a supply line, of a sprinkler head provided with a threaded hole adapted to receive the threaded end of said supply line and another threaded hole concentric with the former, and a sprinkler adjusting member adjustably secured in said last named threaded hole of said sprinkler head, provided with a central hole extending therein from the inner end thereof and communicating with the exterior upper portion of said adjusting member by a narrow diagonal slot terminating at the upper edge of the sprinkler head and substantially in line with said edge.

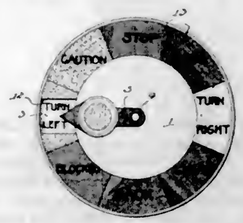
1,472,670. APPARATUS FOR CONCENTRATING ORE. ARTHUR H. PENFIELD, New York, N. Y.. Filed Aug. 11, 1922. Serial No. 581,157. 8 Claims. (Cl. 83—82.)

1. An ore concentrating apparatus having a plurality of suspension compartments, communications between said compartments, means for introducing ore and water to the lower compartment to pass through said communicating compartments wherein the ore settles, means for



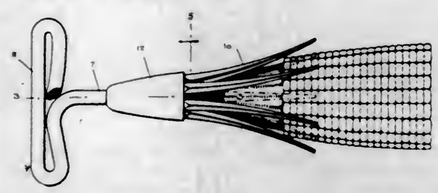
discharging water and gangue from one of the compartments, valves in said communications between said compartments, and means for operating said valves.

1,472,671. DIRECTION SIGNAL. ROBERT F. PFAU, Willmar, Minn. Filed July 24, 1922. Serial No. 577,150. 1 Claim. (Cl. 116—51.)



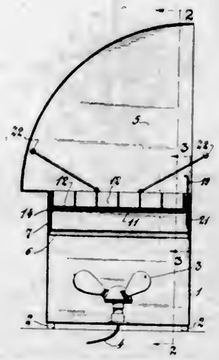
A signal of the class described comprising a casing having a pair of openings therein, a dial on the face of the casing having warning symbols thereon, a rotary member in the casing having colors and symbols thereon for appearing at the openings, a pointer associated with the dial, means for moving the rotary member and the pointer simultaneously so that the pointer will indicate the same symbol as appears in the opening and means for illuminating the warnings on the rotary member.

1,472,672. SEED-CORN SHELLER. FRED A. PREUSS, Humphrey, Nebr. Filed Nov. 21, 1922. Serial No. 602,384. 1 Claim. (Cl. 130—10.)



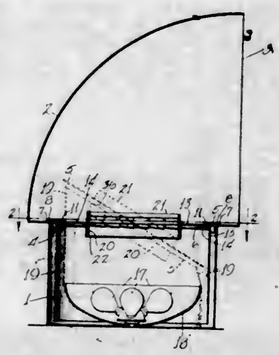
A seed corn sheller having diverging shelling prongs disposed around the axis of the sheller and provided with sharp corners presented inwardly toward said axis to engage the kernels of an ear of corn inserted between said prongs, said prongs being curved away from one another and tapering toward their free ends.

1,472,673. COMBINED EGG CANDLING AND ASSEMBLING DEVICE. WALTER G. REAGAN, Lebanon, Ind. Filed Oct. 6, 1921. Serial No. 505,855. 2 Claims. (Cl. 99—6.)



1. A candling tray having a plurality of compartments therein, a swingable bottom for each compartment, means for moving said bottoms into opened position, said means being adapted to lock said bottoms in opened position.

1,472,674. COMBINED EGG CANDLING AND ASSEMBLING DEVICE. WALTER G. REAGAN, Lebanon, Ind. Filed Jan. 3, 1922. Serial No. 526,824. 4 Claims. (Cl. 99—6.)



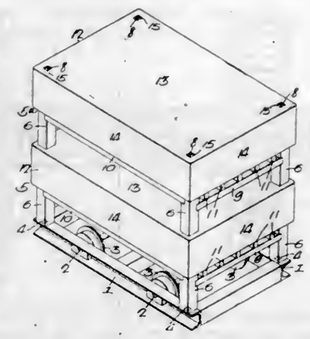
1. A device of the type described comprising a casing open at its upper end, a hood carried by said casing, a ring carried by said casing and being adapted to be swung with respect to said casing, and a turntable carried by said ring, said turntable being adapted to carry a tray.

1,472,675. FERTILIZER. MILTON C. REED, Reeds, Mo. Filed Nov. 15, 1921. Serial No. 515,317. 2 Claims. (Cl. 71—9.)

1. The herein described insecticide and fertilizer, comprising tobacco and sulfur.

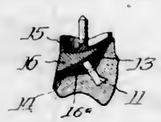
2. The herein described insecticide and fertilizer, comprising tobacco, sodium nitrate, potassium nitrate, phosphate, calcium hydroxide, wood ashes and sulfur.

1,472,676. TRUCK FOR DRYING POTTERY, ETC. THOMAS H. RHOADS, Philadelphia, Pa., assignor to Proctor & Schwartz, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 3, 1923. Serial No. 629,715. 3 Claims. (Cl. 34—17.)



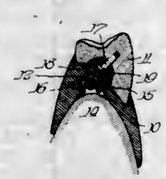
1. The combination of a tray having slats thereon to support the articles to be dried; and a flanged cover extending over the articles and to a point at, or near, the upper surface of the tray, so that heated air, in circulation, will pass up between the slots and the upper portions of the articles will be protected.

1,472,677. TOOTH AND PROCESS OF PREPARING THE SAME. ULYSSES M. RICHARDSON, Chicago, Ill., assignor of one-half to James B. Crowley, Chicago, Ill. Filed Apr. 17, 1922. Serial No. 554,256. 4 Claims. (Cl. 32—9.)



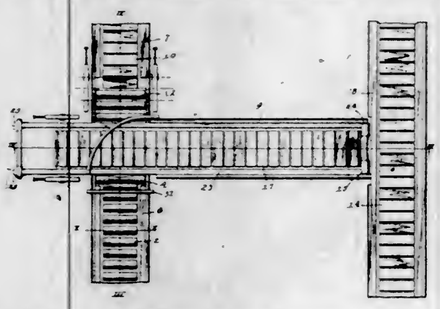
1. In an artificial tooth, the combination of a porcelain body having a grooved under surface, a single pin seated in the body and extending substantially perpendicularly from said surface at the center thereof, a sheet of precious metal fitted to said surface and having a portion occupying said groove whereby the sheet is prevented from rotation about the pin as a center, and solder covering said sheet of metal and filling said groove.

1,472,678. TOOTH CONSTRUCTION. ULYSSES M. RICHARDSON, Chicago, Ill., assignor of one-half to James B. Crowley, Chicago, Ill. Filed Apr. 17, 1922. Serial No. 554,257. 1 Claim. (Cl. 32—12.)



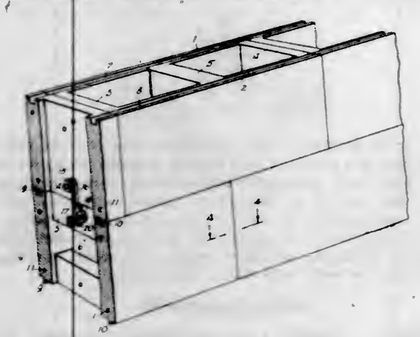
An artificial tooth having a ridge-lap or mounting surface provided with a cavity extending from said surface into the body of the tooth, and a headed pin secured in said body to project from the wall of said cavity at a pronounced angle to the vertical axis of the tooth, the headed end of said pin being substantially flush with said mounting surface.

1,472,679. TRAVELING CONVEYER WITH GRAVITY ROLLERS. GUSTAV R. RODDY, Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 9, 1921. Serial No. 476,282. 10 Claims. (Cl. 198—105.)



1. In conveying apparatus, the combination of an endless traveling conveyer provided with an adjustable turning wheel at one of its ends, a plurality of rollers, located opposite the end of the conveyer at which is the adjustable turning wheel and forming, in effect, a continuation of the conveyer, the roller nearest the conveyer being removable to permit the endless conveyer to be adjusted toward the rollers by movement of its turning wheel, and a second conveyer located beyond the said rollers and cooperating therewith to form a continuous run for the material being conveyed.

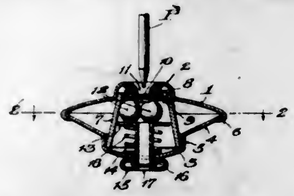
1,472,680. CONCRETE BLOCK CONSTRUCTION. MARIO ROFFINO, New York, N. Y. Filed Dec. 12, 1922. Serial No. 606,426. 7 Claims. (Cl. 72—41.)



6. A joint construction for a plurality of walls, which includes a wall disposed in one level, a pair of walls disposed in an adjacent level, said pair of walls abutting the first-mentioned wall, means for clamping said pair of walls together, and means connecting one of said pair of walls with the first-mentioned wall.

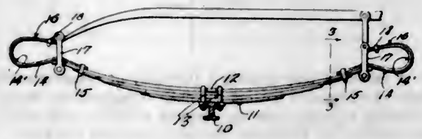
1,472,681. PIN AND LIKE SECURING DEVICE. LEVI J. ROY, Providence, R. I. Filed Feb. 28, 1923. Serial No. 621,782. 8 Claims. (Cl. 24—255.)

1. In a device of the type set forth a shell having a top formed with a centrally perforated dome of concavo-convex cross-section, a bottom having an upwardly extending wall formed with an annular portion secured to the top, a cone-shaped sleeve having its base end seated on the bottom and against said wall thereof and having its upper end engaged on the interior of the dome, a centrally perforated plate slidable in the sleeve, a coil spring in the dome engaging the plate, a hollow stem having a flanged head, a series of balls engaged with the sleeve and with said stem head and plate, the outer end of the stem extending through the bottom of the shell, a finger



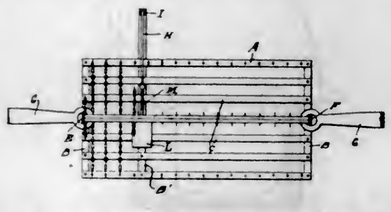
piece on said outer end of the stem for operating the latter and a coil spring surrounding the stem and seated on the shell bottom and engaged against the head of the stem.

1,472,682. VEHICLE SPRING. GUSTAV R. SAHLSTROM, Sheridan, Wyo. Filed July 26, 1922. Serial No. 577,675. 4 Claims. (Cl. 267—46.)



1. A vehicle spring comprising a main laminated spring portion, a shackle engaged beneath each end of the main spring, auxiliary spring portions secured to the ends of the main spring portion and having their ends directed upwardly and inwardly and connected with the said shackle.

1,472,683. BEAVER TRAP. THEODORE H. SCHEFFER, Puyallup, and LEO K. COUCH, Olympia, Wash., assignors to Assistant Secretary of Agriculture of United States of America. Filed Feb. 5, 1923. Serial No. 617,158. 1 Claim. (Cl. 43—63.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

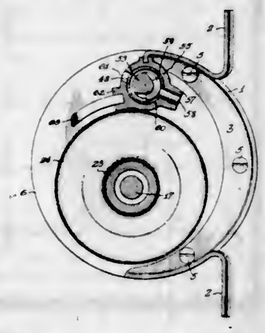


A trap comprising a substantially rectangular base member composed of cross-bar grating, posts attached to opposite ends of said base, a pair of U-shaped jaws pivotally mounted on said posts, springs for actuating said jaws, trigger means attached to the base near one end thereof and adapted to releasably hold said jaws in set position, and a flexible netting attached to said jaws and to the edges of said base for enclosing the area above said base when the jaws are moved to closed position.

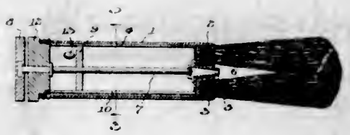
1,472,684. LEVEL WIND REEL. WILLIAM SCHMID, Coldwater, Mich. Original application filed Feb. 18, 1921, Serial No. 446,142. Renewed Apr. 6, 1923. Divided and this application filed Apr. 29, 1922. Serial No. 557,287. 7 Claims. (Cl. 242—84.4.)

3. The combination with a reel frame, and heads carried thereby, of a stationary sleeve carried by said heads with its ends set in from the peripheral edges of said

heads, a screw shaft rotatable in said sleeve, a follower adapted to be moved by said shaft and having a portion projecting from one side of said sleeve, a head slidable on said sleeve against said frame and fixed relative to said follower by the projecting portion thereof, and a guide member carried by said head and projecting in an opposite direction from that of the follower projecting portion.



1,472,685. BRUSH. AUGUST SCHUMACHER, Flushing, N. Y. Filed Apr. 29, 1922. Serial No. 557,290. 1 Claim. (Cl. 15—137.)



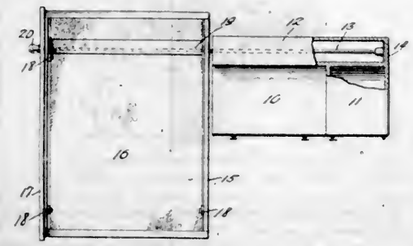
A brush of the class described comprising a hollow handle, bristles at one end of the handle, said bristles being arranged to form a space at the center thereof, a cylinder located in the handle and having a filling opening therein which is covered by the handle when the parts are in assembled position, a nozzle carried by the cylinder and projecting into the space formed by the bristles, a screw cap for the cylinder, a screw shaft rotatably mounted in the cylinder and passing through the cap, a handle on the outer end of the shaft, a disc within the cylinder and through which the shaft passes, a rod in the cylinder engaging a notch in the disc for preventing rotary movement of the disc and screw threads on the cylinder and hollow handle for detachably connecting them together.

1,472,686. MOUNTING LAMP SHADE. S. ROBERT SCHWARTZ and AUGUST BOSTROEM, New York, N. Y., assignors to said Schwartz. Filed Nov. 17, 1920. Serial No. 424,681. 14 Claims. (Cl. 240—73.)



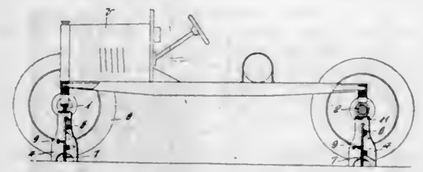
1. In a lamp, a shade having at one end a hole whereby this end may be pivotally mounted and at its other end a slot whereby the shade may be mounted pivotally without preventing axial movement nor movement transverse to the axis, and a hole in the shade adapted to receive means which will prevent the above-mentioned transverse movement without destroying the freedom of movement in other directions.

1,472,687. COMBINATION FURNITURE. HARRY SCOTT, Toledo, Ohio. Filed July 19, 1922. Serial No. 576,057. 1 Claim. (Cl. 5—170.)



The combination with an article of furniture having a compartment in the rear thereof of dimensions commensurate with the height and width of the article, and one end opening through one side of the article, a rod secured within the compartment and extending horizontally therein and through the open end thereof, and a bed frame having a transverse member slidably receiving the rod whereby the bed frame is capable of pivotal movement into and out of vertical position with respect to the open end of the compartment and the side of the article, and slidable movement into and out of the compartment, one side of the bed frame having a panel for closing the end of the compartment to conceal the bed when therewithin.

1,472,688. SUPPORT. HOLLIS J. SÉVIGNY, Sanford, Me. Filed Apr. 6, 1922. Serial No. 550,198. 2 Claims. (Cl. 248—41.)



1. An automobile jack comprising a main section and an auxiliary section hingedly connected thereto, the upper end of said main section being bifurcated, forming a recessed seat for the reception of an axle of the automobile, elevating blocks adapted to be detachably secured within said recessed seat, the opposite ends of said blocks being bifurcated whereby they may engage the bifurcated upper ends of said main section for retaining the blocks in place, substantially as and for the purpose specified.

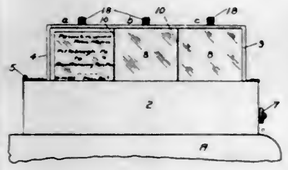
1,472,689. CUSHION GRIP FOR STEERING WHEELS. WILLIAM C. SKILES, Jackson, Mich. Filed Feb. 26, 1920, Serial No. 361,443. Renewed Aug. 20, 1923. 1 Claim. (Cl. 74—33.)



A grip ring for steering wheels consisting of a cross-sectionally crescent-shaped body provided with an inner concaved seat for receiving the periphery of a steering

wheel rim and tapered in thickness toward its lateral edges to merge the exterior surface thereof into the adjacent portions of the surface of said wheel rim.

1,472,690. FARE-RECORDING MECHANISM. CHAME D. SKINNER, New Kensington, Pa. Filed Aug. 7, 1922. Serial No. 580,215. 4 Claims. (Cl. 232—12.)

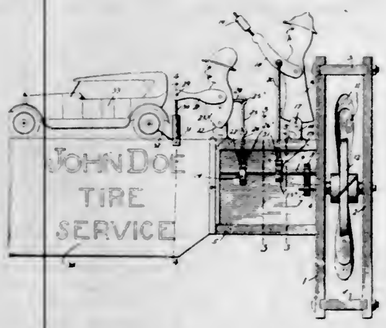


1. A double sided visible ticket receiver having outermost oppositely located ticket receivers each provided with a slotted opening, a lower ticket collecting holder, a hinged door between each ticket receiver and the holder, and door opening and closing mechanism between the receivers.

1,472,691. NITROSTARCH EXPLOSIVE. WALTER O. SNELLING, Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y., a Corporation of New York. Filed Oct. 14, 1922. Serial No. 594,592. 3 Claims. (Cl. 52—11.)

1. An explosive comprising nitrostarch and lead nitrate.

1,472,692. ADVERTISING APPARATUS. WILLIAM H. SNIDER, Welcome, N. C. Filed Feb. 16, 1923. Serial No. 619,434. 2 Claims. (Cl. 40—139.)



1. In an apparatus of the class described, a supporting structure including a casing having a shaft extending therethrough, a wind wheel mounted outside said casing and geared to rotate said shaft, cams carried by said shaft, movable figures mounted on said casing, rods connected with said figures and having heads engaged with said cams whereby the rotation of the shaft will actuate the figures.

1,472,693. HEAT REGULATOR FOR OVENS. HARRY S. SPLITHOFF, Chicago, Ill., assignor of one-half to Roberts Portable Oven Company, Chicago, Ill. Filed Mar. 3, 1922. Serial No. 540,818. 2 Claims. (Cl. 126—275.)

1. In combination with an oven and its decks, brackets connected with the side edges of each deck, a plate hinged to each bracket, a handle connected with each plate and extending through the front of the oven and means for holding the handle in a position with the

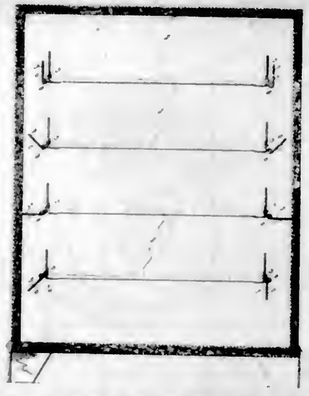
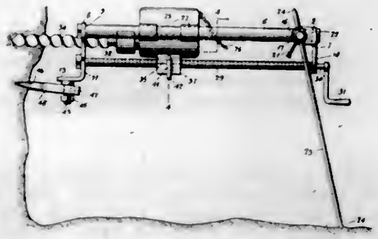


plate closing the space between the deck and the side wall of the oven or for holding the plate in fully open position or partly open position.

1,472,694. DRILL MOUNTING. FRANKLIN B. SPRY, Plymouth, Pa. Filed Aug. 21, 1922. Serial No. 583,320. 1 Claim. (Cl. 255—54.)

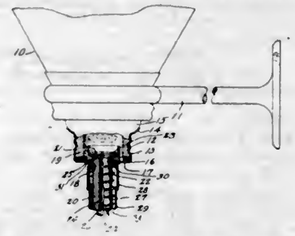


A drill mounting of the class specified, comprising a frame having end cross heads each provided with upwardly and outwardly inclined arms and a depending body, guide rods secured in the upper divergent terminals of the inclined arms, the depending body of the front cross head continuing into a downward projection terminating in a right-angular foot having a forwardly projecting horizontal member with a depending pin rigidly held therein, a motor carrying drill accessories freely slidable on the guide rods, a hand operated screw extending through the openings of the depending boss of the cross heads, the lower portion of the motor being provided with means to separably engage the said screw, vertically and laterally adjustable legs associated with the rear cross head, and a wedge tapered at its front extremity for driving the same into the material to be drilled, the rear extremity of the wedge having an elongated opening extending vertically therethrough for loose attachment to the pin depending from the foot and permitting the said pin to move backwardly and forwardly and also to assume different angular positions in said elongated opening in the rear extremity of the wedge without displacing or resetting the latter.

1,472,695. LIQUID-SOAP DISPENSER. PHILIP H. STAPLEY, Waterbury, Conn., assignor to W. D. Carpenter Company, Syracuse, N. Y., a Corporation of New York. Filed July 22, 1922. Serial No. 576,721. 3 Claims. (Cl. 221—94.)

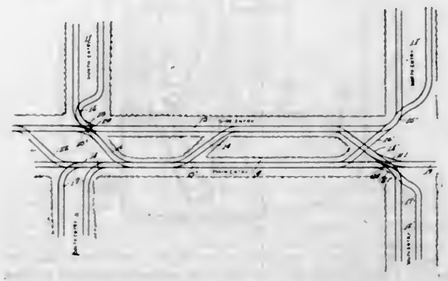
1. In a device of the character described a cap adapted for attachment to a receptacle and provided with an opening, a cup mounted in the cap and having a portion

extending through said opening, a plunger provided with a valve within the cup and mounted to reciprocate in said extension, said plunger having a discharge passage leading from the cup to a point adjacent the outer end of the plunger, a spring surrounding the plunger and



tending to hold the valve in closed position, and a shell surrounding the spring and having an end embracing the extension, the outer end of the extension being clinched over the end of the shell to secure the cup and shell to the cap.

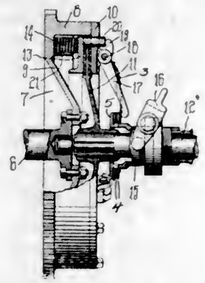
1,472,696. METHOD AND MEANS FOR HANDLING CARS IN MINES. MARION STUFFLEBEAM, St. David, Ill. Filed Apr. 19, 1923. Serial No. 633,202. 1 Claim. (Cl. 104—26.)



In a method and means for handling cars in mines, the combination with a mine including longitudinal parallel entries, lateral entries communicating with the parallel entries and being arranged opposite each other and communicating between the parallel entries, of a railway including tracks extending longitudinally in the parallel entries and past the mouths of the lateral entries, tracks in the lateral entries and having connections with one of the adjacent parallel tracks, communications between the parallel tracks adjacent the lateral entries, and communications between the parallel tracks intermediate the lateral entries.

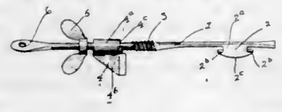
1,472,697. MULTIPLE SPRING CLUTCH. ALFRED T. STURT, New York, N. Y., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Mar. 29, 1920. Serial No. 369,559. 5 Claims. (Cl. 192—68.)

2. In a clutch mechanism of the class described, a rotatable driving member having a peripheral rim, and an inwardly extending annular abutment; a clutch ring located within said rim and movable toward and from said abutment; a plurality of coil springs located just within and spaced about the interior of said rim, and acting upon said clutch ring to force the same toward said abutment; an annular spring retaining member separate from said driving member and located within said rim, and having a plurality of peripheral recesses open at their outer sides and cooperating with the adjacent inner surface of said rim to provide cells or chambers within which said springs lie; a rotatable driven member concentric with ssid driving member and the periphery of which lies between said abutment and said clutch ring; and operating means for moving said clutch ring in opposition to said springs.



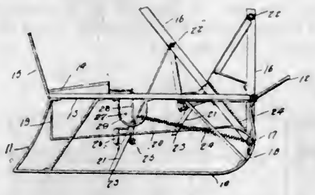
5. In clutch mechanism of the class described, a spring retaining member annular in form, and corrugated to provide a plurality of spring retaining recesses.

1,472,698. DOOR-FASTENING DEVICE. VINCENZO D. TESTA, Akron, Ohio. Filed Oct. 22, 1921. Serial No. 509,453. 2 Claims. (Cl. 292—290.)



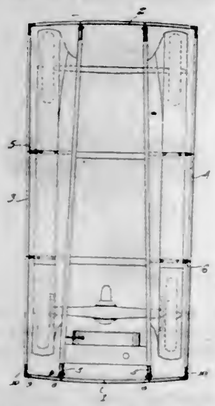
1. In a device of the class described, a stem, the central portion thereof provided with a screw thread, one end portion thereof being flattened, a longitudinally disposed bit projecting at a right angle from said flattened portion at a point adjacent the end thereof, said bit comprising a base having an overhanging head which projects from each end thereof, a bit projecting from said end portion, said bit provided with sharp prongs and adapted when placed in a vertical position to be entered in the opening in the socket plate of said door jamb, said prongs arranged when the stem is swung to a horizontal position to engage the under face of said socket plate and anchor the stem thereto; a wing nut operatively positioned on the said threaded central portion and a swivel jaw mounted on said stem between said nut and said bit substantially as and for the purpose herein set forth.

1,472,699. HAND-PROPELLED SLED. SAM TIBRITH, Toledo, Ohio. Filed Nov. 1, 1922. Serial No. 598,355. 5 Claims. (Cl. 208—158.)



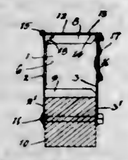
1. A self propelled sled having runners provided with rear standards and connected at their front ends by an arch forming a fender, a transverse fulcrum rod, a centrally open frame surmounting the runners with a seat located at its rear end, longitudinal brace rods extending from the rear of the frame to the fulcrum rod and arranged in parallelism to form guides, hand levers fulcrumed upon said fulcrum rod with their free ends within reach of the occupant of the seat, and terminally spurred push rods pivotally connected to the hand levers and extending downwardly and rearwardly between said guides to engage the surface traversed by the runners.

1,472,700. BUMPER. HENRY M. VICKERY, Los Angeles, Calif. Filed Feb. 16, 1923. Serial No. 619,433. 1 Claim. (Cl. 293—55.)



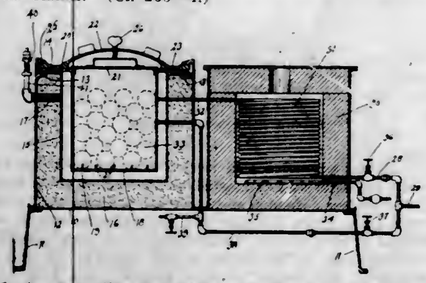
In combination with a motor vehicle, a bumper connected with each end thereof, a bumper yieldingly connected with each of the running boards of the vehicle, the front end of each side bumper inclining upwardly to protect the front wheel and the front fender and the rear of each side bumper being substantially straight and extending across the rear wheel and the rear end of the rear fender.

1,472,701. TOOL BOX. ANTHONY WILLIAM VOGELAAR, Bulyea, Saskatchewan, Canada. Filed Nov. 7, 1921. Serial No. 513,453. 9 Claims. (Cl. 224—29.)



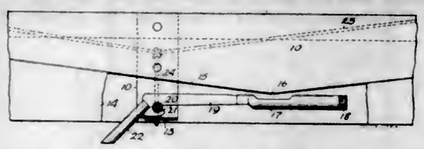
5. An attachment for vehicle tongues comprising a tool box provided with extending flanges disposed to lie on opposite sides of the tongue, said flanges being relatively adjustable to accommodate tongues of varying width therebetween.

1,472,702. ANNEALING APPARATUS. BENJAMIN M. WALPOLE, Providence, R. I., assignor to National Gas Furnace Company, Providence, R. I., a Corporation of Rhode Island. Filed Mar. 11, 1920. Serial No. 364,874. 13 Claims. (Cl. 266—4.)



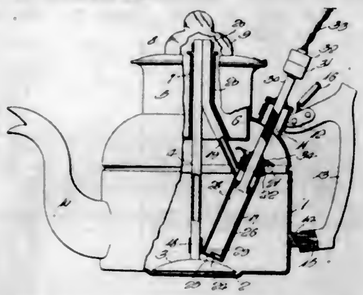
1. An annealing apparatus comprising a work-receiving chamber, and means for introducing a non-oxidizing medium into and causing it to circulate through said chamber for raising its internal temperature to an annealing heat.

1,472,703. AUTOMATIC CONTROL FOR WINDOW SHADES. ROBERT WALSER, Union Hill, N. J. Filed Dec. 16, 1922. Serial No. 607,379. 5 Claims. (Cl. 156—28.)



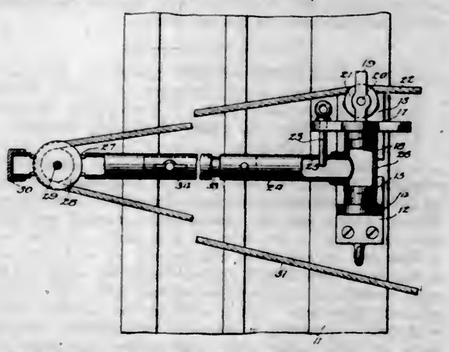
4. A device of the class described including a trough, means to support the same on a window sash, means to hold the shade in a raised position adjacent to said sash, a receptacle adapted to receive rain from said trough, and a pin rockable by said rain receptacle when the latter receives a predetermined quantity of rain, said shade holding means adapted to engage said pin and releasable by the turning thereof with the rocking of the said receptacle.

1,472,704. PERCOLATOR AND ELECTRIC HEATING ATTACHMENT FOR THE SAME. ALFRED WARD, Norfolk, Va. Filed Apr. 20, 1922. Serial No. 555,680. 11 Claims. (Cl. 219—44.)



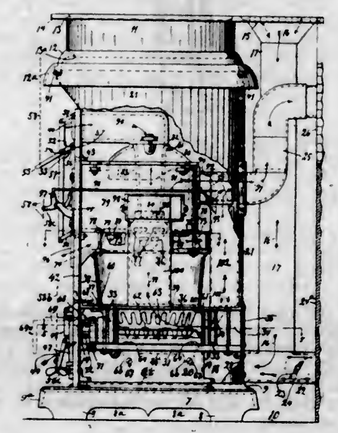
1. A percolator comprising a liquid reservoir, an ingredient carrying cup, a removable percolator tube in the reservoir extending upwardly through the cup, a heater container in the reservoir provided with a port for the passage of liquid, a second percolator tube extending from the heater container through the cup, and a heating element extending into the reservoir and positioned within the heater container.

1,472,705. CLOTHESLINE BRACKET. RALPH WARDHAUGH, New York, N. Y. Filed June 21, 1922. Serial No. 569,820. 3 Claims. (Cl. 68—3.)



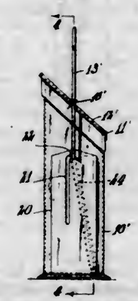
2. A clothesline bracket of the character described, comprising an arm having a T-shaped end and an aperture near said end, a pair of fixtures adapted to be secured to a window frame formed with stud shafts projecting therefrom into said T-shaped end whereby said arm is rotatably supported, a pin carried by one of said fixtures engageable with said arm in said aperture for locking the arm against movement, a pulley carried by said arm for receiving a clothesline, a pulley wheel carried by the upper fixture for guiding the upper run of the clothesline, and a hook carried by the lower fixture for holding the lower run of the clothesline in position.

1,472,706. HOT-AIR FURNACE OR HEATER. FRED WEINECK, St. Paul, Minn. Filed July 5, 1922. Serial No. 572,919. 6 Claims. (Cl. 126—112.)



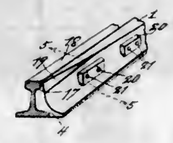
2. In a heating apparatus of the class described, a firepot with a gas and air mixing chamber near above it, an air duct surrounding the mixing chamber and having apertures letting air in laterally from several points of the chamber, and a hinged door letting air into the duct, another hinged door higher up on the apparatus, an air duct leading from the latter door in and downward into the mixing chamber and provided with lateral outlets for air to mingle with the gas in a direction opposite to the air from the circular air duct and means for regulating the opening and closing of said two doors.

1,472,707. SANITARY WASTE RECEPTACLE. THOMAS WEISZ, New York, N. Y. Filed Sept. 21, 1922. Serial No. 589,568. 5 Claims. (Cl. 220—56.)



1. A waste receptacle having an inclined top, a cover hinged thereto, and a bail hinged to the receptacle and having a slidable engagement with said cover, and means for causing said bail to bear on said cover to hold the same closed.

1,472,708. SAFETY SWITCH POINT. LESTER M. WENTLING, Foxburg, Pa., assignor of one-eighth to Glen V. Gibson, West Monterey, Pa., one-eighth to Robert H. Downing, sr., one-eighth to Robert H. Downing, jr., and one-eighth to Alexander Jinkens Downing, all of Foxburg, Pa., one-eighth to Donald G. Jordan, St. Petersburg, Pa., and one-eighth to Albert L. Nevel, Emlenton, Pa. Filed June 4, 1923. Serial No. 643,391. 2 Claims. (Cl. 246—435.)



1. A switch point comprising a body including a tapered portion of a length substantially half the length of the switch point, the inner surface of the tapered portion adjacent the bottom being undercut to engage with and fit the base of the main rail, said tapered portion for half its length having a longitudinal recess angular in cross section to engage with and fit the under part of one side of the ball of the main rail, the outer face of the switch point adjacent the extremity of the ball of said point being provided with a beveled off surface to cause the car wheels to engage with and ride the switch point, said tapered portion adjacent its extremity having enlargements with apertures formed transversely therethrough and through the switch point web to receive fastening means for connecting rods.

1,472,709. ARTIFICIAL TREE. MOSES WIESENFELD, Baltimore, Md. Filed Mar. 16, 1923. Serial No. 625,635. 2 Claims. (Cl. 41—15.)

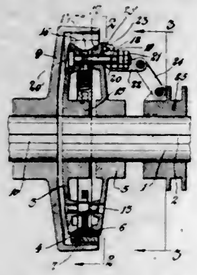


1. An artificial tree or the like in which the foliage is composed of sponge.

1,472,710. CLUTCH. ALEXANDER H. WILSON, Chicago, Ill. Filed Oct. 19, 1921. Serial No. 508,759. 3 Claims. (Cl. 192—76.)

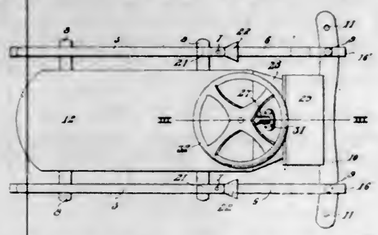
1. In a clutch mechanism, a shaft, a disc rigidly secured to said shaft and having a tapered periphery, a second disc movable toward said first named disc and having a tapered periphery, whereby the peripheries of said discs form a wedge-shaped groove, a ring comprising a plurality of segments having wedge-shaped inner sides adapted to be received in the wedge-shaped groove of said discs, spring means for yieldingly hold-

ing said segments in engagement with said discs, bolts carried by said stationary disc and being slidably received in said movable disc, levers fulcrumed to said



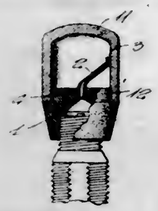
bolts and being adapted to move said movable disc toward said stationary disc, and means for actuating said levers.

1,472,711. SLED. STEFAN ZUKOWSKI, Pascoag, R. I., assignor of forty-five per cent to Ludwik Okoniewski, Pascoag, R. I. Continuation of application Serial No. 538,198, filed Feb. 21, 1922. This application filed Feb. 10, 1923. Serial No. 618,317. 2 Claims. (Cl. 280—22.)



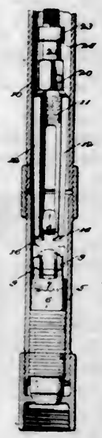
1. In a sled of the type described having a rear portion, a forward portion of the sled pivoted to said rear portion, manually operable means to horizontally swing said forward portion of the sled, and means to limit the horizontal swinging movement of the forward portion of the sled, said last named means including journal members carried by said rear portion and overhanging the rear end of said forward portion.

1,472,712. TIRE-VALVE TESTER. HORACE G. ALTZ and FRED F. FEARHEILEY, East Moline, Ill. Filed Sept. 14, 1922. Serial No. 588,203. 2 Claims. (Cl. 73—51.)



1. A tire valve tester comprising a cap for temporary application to the end of the valve, and a normally elongated flexible tube carried by and disposed on the exterior of said cap, said tube being closed at its outer end and normally drooping laterally under its own weight from its point of connection with the cap, said tube being in communication with the interior of said cap, whereby a slight leak of air from the valve into said cap will right said tube and form thereof a relatively stiff indicating finger.

1,472,713. FISHING TOOL. CHARLES H. BROWN, Breckenridge, Tex. Filed Oct. 29, 1921. Serial No. 511,367. 4 Claims. (Cl. 294—86.)



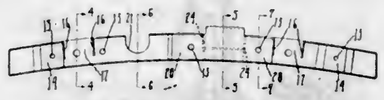
1. A ball valve removing tool for wells comprising a head having a plurality of spring arms converging toward their forward portions and provided on their inner sides with gradually deepened grooves terminating in ball receiving sockets, said arms having means to jump the valve from its seat against the pressure of the column of oil above.

1,472,714. COLLAPSIBLE SOCKET. CHARLES HENRY BROWN, Breckenridge, Tex. Filed Dec. 12, 1921. Serial No. 521,736. 6 Claims. (Cl. 294—102.)



1. A fishing tool comprising a barrel having its intermediate portion provided with an internal abutment, a rod slidable through and guided by said abutment, a plurality of spring arms secured to the forward portion of said rod and having article gripping means, a coiled spring confined between said arms and said abutment, and a sleeve surrounding said spring arms in advance of said barrel and adapted for closing the same.

1,472,715. COMBINED JAMB AND BUFFER FOR AUTOMOBILE DOORS. MARTIN T. CODY, JOHN GRAY, and KINGSTON FORBES, Flint, Mich., assignors to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 8, 1920. Serial No. 372,240. 15 Claims. (Cl. 292—340.)



1. In a vehicle door of the class described and in combination with a door post, a unitary jamb member secured to said door post and toward which the free edge of the door moves as the same is closed; and a yieldable buffer secured to said jamb member and carried thereby, and with which the free edge of the door engages at the end of its closing movement.

1,472,716. PROCESS OF MAKING EMULSIONS. WHEELER P. DAVEY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 27, 1923. Serial No. 621,675. 12 Claims. (Cl. 134—1.)

8. The method which consists in heating an oleaginous material and a solution of an alkali in water to a temperature sufficiently high to produce saponification, evaporating substantially all of the water from said mixture, adding an asphaltic material to said mixture, heating to a temperature sufficiently high to cause said material to become incorporated in said mixture, bringing the temperature of the resulting composition to about 150° C., adding water thereto heating to about 100° C., and stirring to produce an emulsion.

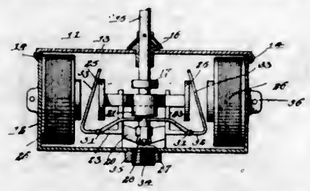
1,472,717. SCALDING APPARATUS FOR TOMATO-PEELING MACHINES. ALFRED I. DU PONT, Wilmington, Del., and HIRAM R. HARDING, Baltimore, Md., assignors to Clean Food Packing Machine Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 25, 1922. Serial No. 531,740. 3 Claims. (Cl. 146—194.)



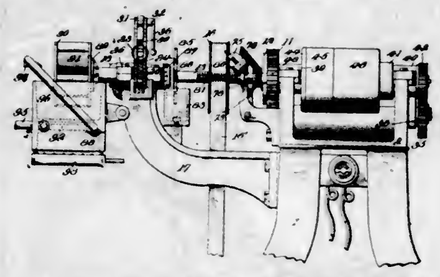
1. A scalding apparatus for fruit and vegetable peeling machines, comprising a housing provided with entrance and exit openings in the end walls and exhaust vents in its top wall, a conveyor belt movable therethrough, steam supply manifolds located within the housing upon either side thereof and positioned respectively above and below the conveyor, branch pipes extending from the manifolds transversely across the chamber of the housing, said pipes being arranged in vertically alined pairs above and below the conveyor and having openings to direct steam jets upon the fruit in transit, and current creating means at said entrance and exit openings to cause the steam to flow inwardly from said openings toward said exhaust vents.

1,472,718. AUTOMOBILE SIGNAL. IGNATIOUS G. HOLLAND and GEORGE A. BROUGHTON, Norfolk, Va. Filed Sept. 26, 1919. Serial No. 326,435. 5 Claims. (Cl. 177—329.)

1. A signal comprising a vertically movable rotatably mounted signal operating rod, means for biasing said rod to and holding it in normal intermediate position including a projection on the rod and a depression in which said projection seats, magnets positioned upon opposite sides of said rod, armatures movable in a path at right angles to the signal rod and operated by said magnets, means between said rod and armature for rotating the latter while permitting its vertical movement, auxiliary armatures and means between said auxiliary armatures and said rod for lifting said projection from said seat prior to the turning of said rod by either of said first named armatures.

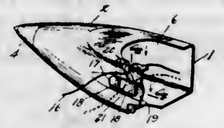


1,472,719. MACHINE FOR MAKING RADIATOR TUBES. GEZA HORVATH, Detroit, Mich. Filed June 9, 1919. Serial No. 302,779. 74 Claims. (Cl. 113—1.)



1. A continuous tube machine for making radiator tubes with extended radiating surfaces, comprising revolving and feeding means for continuously moving and revolving a tube in its passage therethrough, means for winding a strip of metal spirally thereon, and means for subjecting said tube and strip to a soldering bath for securing said strip to said tube.

1,472,720. WEAVING SHUTTLE. ALOIS KLERX, Detroit, Mich., assignor to Peninsular Forging Die & Tool Co., Detroit, Mich., a Corporation of Michigan. Filed Feb. 4, 1922. Serial No. 534,148. 3 Claims. (Cl. 139—219.)

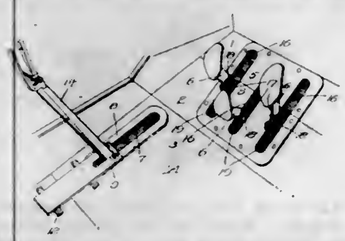


1. A shuttle comprising a hollow metal body having an elongated thread opening in a side wall thereof with a slot in said wall opening into said elongated opening and forming an angular point at one side of the slot, guide means within the body extending across the slot adjacent said point to permit the threading of a thread into the elongated opening and prevent the escape of thread therefrom.

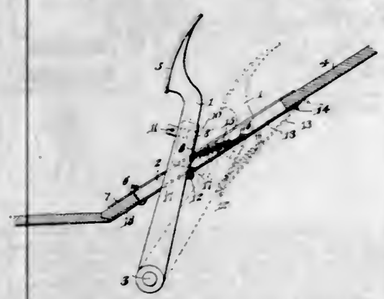
1,472,721. SLOT CLOSURE FOR FORD AUTOMOBILES. ISADORE LEIKER, Hays, Kans. Filed Dec. 11, 1922. Serial No. 606,136. 2 Claims. (Cl. 74—81.)

1. A closure for the clearance slot of a controlling element of a motor vehicle comprising a fixed plate positioned to extend across a portion of the clearance slot

and having its forward end slotted for the passage of the controlling element, a closure plate slidably connected to said fixed plate and normally extending across said clearance slot for closing a portion thereof, said slidable plate having its forward end slotted for the reception of the controlling element, and means mounted on the slotted end of the slidable plate for connecting the controlling element therewith, said fixed plate having the longitudinal marginal portions thereof inturned to provide for slidably connecting the other plate therewith.

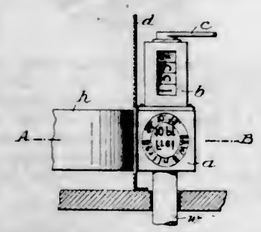


1,472,722. SLOT CLOSURE FOR FORD AUTOMOBILES. ISADORE LEIKER, Hays, Kans. Filed Feb. 2, 1923. Serial No. 616,568. 4 Claims. (Cl. 74—81.)



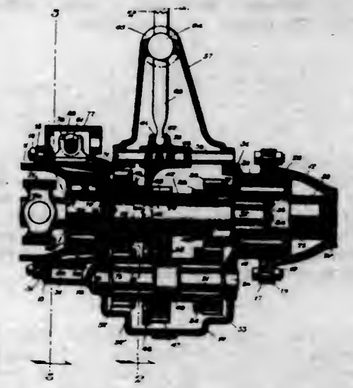
1. A closure for the pedal slot in the control mechanism of a Ford automobile, comprising a plate fixed to the upper face of the deck of the automobile, and another plate slidable along the under face of said deck and hinged to a control pedal to move therewith and participate in the approach and recession of the pedal with respect to said deck.

1,472,723. FRANKING MACHINE. JULIUS LERCHE, Berlin-Zehlendorf, Germany, assignor to Uhrenfabrik vorm. L. Furtwängler Söhne A.-G., Furtwangen i/Baden, Germany. Filed Mar. 25, 1922. Serial No. 546,802. 5 Claims. (Cl. 101—91.)



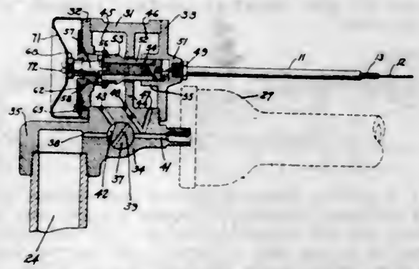
1. In a franking stamp, a stamp head, a counting mechanism non-detachably connected thereto, both being exchangeable together, a part connected with the counting mechanism, and a stationary abutment for retaining the said part during the revolution of the stamp head.

1,472,724. TRANSMISSION MECHANISM. THOMAS J. MCCLOSKEY, Seattle, Wash., assignor to Universal Transmission Company, Seattle, Wash. Filed Jan. 25, 1922. Serial No. 531,706. 8 Claims. (Cl. 74—57.)



1. A transmission gearing comprising a shaft, a second shaft, a third shaft parallel with the first named shaft, a member rotatable with the second shaft, a sleeve slidable on and rotatable with the first named shaft, said member and sleeve having clutch portions to engage one another in one position of said sleeve, gears connecting said member and third shaft, a wheel slidable on the third shaft and geared to and movable with said sleeve, clutch portions between said wheel and third shaft to connect said wheel and third shaft in another position of said sleeve, and a wheel rotatable relatively to the first named shaft geared to the third shaft, the last named wheel and sleeve having clutch portions to engage in still another position of the sleeve.

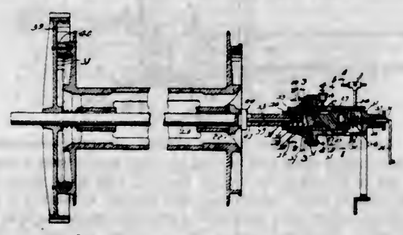
1,472,725. THERMOSTATIC MECHANISM. SILAS MCCLURE, Minneapolis, Minn. Filed Jan. 24, 1923. Serial No. 614,640. 7 Claims. (Cl. 297—14.)



1. In a thermostatic mechanism, the combination of a tubular member adapted to be shaped into a curved or irregular form, a flexible element having a different coefficient of expansion extending longitudinally of and having a running guiding fit within said member, one end of the member and of the element being secured together so that the other portions thereof may have relative movement upon temperature changes, whereby the mechanism may thermostatically function when assuming a curvilinear or irregular path.

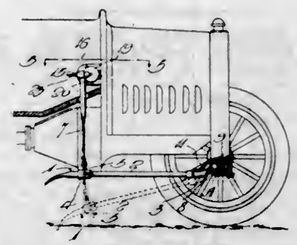
1,472,726. FRICTION DEVICE FOR LOG HANDLERS. JAMES M. MCLAUGHLIN, Portland, Oreg. Filed Nov. 30, 1921. Serial No. 518,889. 3 Claims. (Cl. 192—96.)

1. A friction apparatus for a hoisting drum including a drum shaft and a drum revolubly mounted thereon, a clutch having its members carried respectively by the drum and shaft, a follower operatively connected with the drum to effect longitudinal movement of the latter for the engagement of said clutch members, and means for applying pressure to the follower consisting of a cylinder, a piston keyed to and longitudinally movable in the cylinder and having a thrust bearing against the follower,



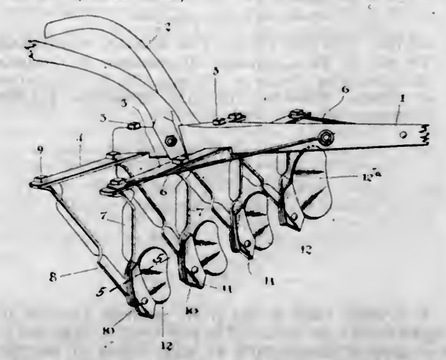
fluid means for imparting endwise pressure to the piston, and manual means for actuating the piston selectively as against said fluid means, and embodying a feed screw connected with the piston, a stuffing box through which the extremity of said feed screw extends, and a crank handle for actuating said feed screw.

1,472,727. AUTOMOBILE CHECK. WILLIAM MCNAMES, Aberdeen, S. Dak. Filed Mar. 9, 1922. Serial No. 542,371. 6 Claims. (Cl. 188—6.)



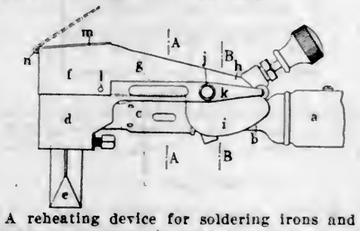
1. A device of the class described comprising an axle clamp, a ground engaging member pivotally connected thereto, said clamp having an opening, and a flat spring having one end off-set and received in said opening, the free end of the spring bearing on said member to maintain it in yieldable engagement with the ground.

1,472,728. PLOW. JAMES EDWARD MCNEIL, Memphis, Tenn. Filed Oct. 8, 1920. Serial No. 415,621. 1 Claim. (Cl. 97—205.)



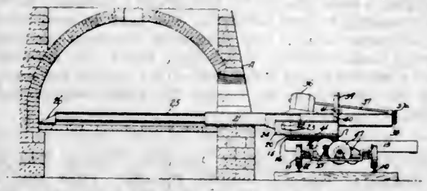
A plow comprising a standard, a share arranged at the forward side of the standard, a wing arranged at one side of the share and having an attaching plate arranged between the share and the standard, and a fastening device connecting the share and the attaching plate to said standard, said wing having its upper and lower portions curved forwardly and rounded, the outer longitudinally extending edge of said wing being curved inwardly between its ends for the passage of dirt.

1,472,729. REHEATING DEVICE FOR SOLDERING IRONS. JULES EUGÈNE MALIVERT, Paris, France, assignor to Société Anonyme des Appareils J. E. Malivert, Paris, France. Filed Dec. 30, 1921. Serial No. 525,916. 7 Claims. (Cl. 158—26.)



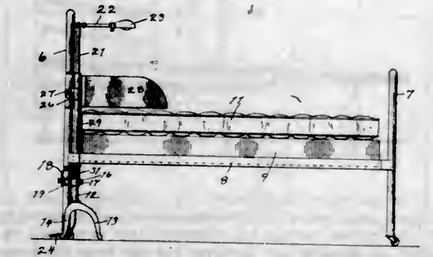
1. A reheating device for soldering irons and similar apparatus, comprising a removable casing which is placed over the iron when the temperature is low, said casing including a combustion chamber at its forward end, and a conduit leading from the combustion chamber to the gasifier and bringing back the combustion products to the gasifier.

1,472,730. COKE-DRAWING MACHINE. RICHARD D. MARTIN, Fort Smith, Ark. Filed Dec. 13, 1921. Serial No. 522,087. 12 Claims. (Cl. 214—23.)



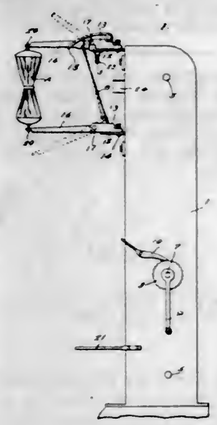
1. In a coke-drawing machine, a truck adapted to travel on a track, a carriage mounted to travel on said truck, coke-drawing means mounted for longitudinal movement on said carriage, means for actuating said coke-drawing means, and propelling means for said carriage independent of said coke-drawing means and its actuating means to impart to said carriage movements in the same directions as the movements given the coke-drawing means by said actuating means.

1,472,731. BED SHIELD. GWYNNE L. MARVIN, Morgan Hill, Calif. Filed Oct. 13, 1922. Serial No. 594,302. 2 Claims. (Cl. 5—330.)



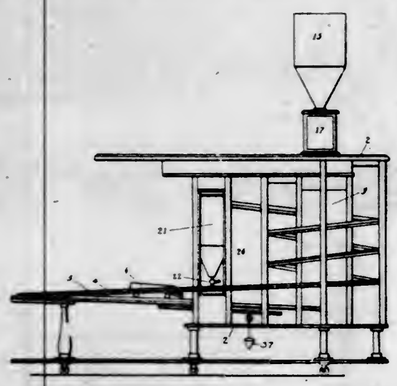
1. In a device of the character described, the combination with a bed, a stand adapted to be secured to said bed, a shield movably supported upon said stand, and spring means for maintaining said shield in contact with the covers of said bed.

1,472,732. MAIL CRANE. JOHN Z. MAST, Denbigh, Va. Filed Dec. 13, 1921. Serial No. 522,046. 1 Claim. (Cl. 258—23.)



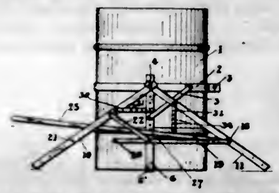
A mail crane comprising a hollow upright, a vertically movable member thereon, sprockets within the upright, a chain passing over the sprockets and connected with the member, a crank shaft carried by the upright, a sprocket thereon engaging the chain, ratchet means associated with the crank shaft for holding the vertically movable member in adjusted position, brackets on the upright, a block pivoted to move about a vertical axis on each bracket, an arm pivoted to each block to move about a horizontal axis, a link connecting the arms together, spring means tending to move the upper arm upwardly and a bracket at the lower part of the upright for engaging the lower arm for moving the arms towards each other.

1,472,733. ADVERTISING DEVICE. DAVID GILLIES MAXWELL, Toronto, Ontario, Canada. Filed Jan. 3, 1922. Serial No. 526,748. 4 Claims. (Cl. 46—37.)



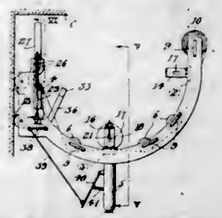
1. In an advertising device, the combination with an inclined track and a car running thereon, of a vertically slidable bucket, means for intermittently weighting the bucket, an elevator for elevating the car from the lower end of the track to the upper end of the track, a second vertically slidable bucket adapted to overbalance the aforementioned bucket when unweighted and means for actuating the elevator upon the second mentioned bucket being actuated.

1,472,734. BARREL STAND. ADAM JOHN MILLER, Platteville, Wis. Filed Aug. 9, 1922. Serial No. 580,781. 2 Claims. (Cl. 248—58.)



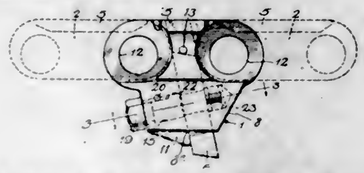
1. In a barrel stand a pair of legs pivotally connected at their upper ends and having at their upper ends a bearing for a trunnion, a second pair of legs also pivotally connected at their upper ends and having a bearing for a trunnion, brace rods connecting the corresponding legs of each pair, clamping means for a barrel carried by the trunnions and means for holding the legs of each pair so connected together that their upper ends carrying the bearings for the trunnions will be in elevated position comprising for each pair of legs a bar pivoted to one of the legs near its lower end and having its other end adapted to detachably engage the other leg, and a link connected at one end to said other leg and at its other end connected to the bar adapted to support the free end of the bar when disengaged from said other leg and to limit the possible separation of the lower ends of the legs.

1,472,735. WALL-PAPERING MACHINE. JAMES V. PIZZINO, Mercer, Pa. Filed Apr. 12, 1922. Serial No. 551,759. 9 Claims. (Cl. 216—6.)



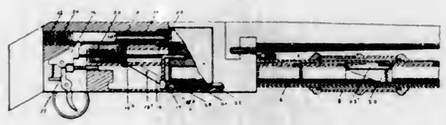
1. A portable wall papering machine comprising a frame having arcuate end bars, connecting strips for the end bars, a cutting block extending between the end bars, a paste containing cylinder selectively mounted over either of the connecting strips, a cutting blade reciprocably mounted upon the frame and associated with the cutting block, and manually operable tensioning means for the strip of paper fed through the machine.

1,472,736. CUTTER CHAIN FOR MINING MACHINES. THOMAS E. PRAY, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 16, 1920. Serial No. 431,250. 9 Claims. (Cl. 262—33.)



1. A chain block having a bit receiving aperture inclined toward the front end of said block, a clamp-receiving aperture substantially at right angles to said bit-receiving aperture and closed to the front face of said block, a bit, a clamp having engagement with said bit, and a nut having threaded engagement with said clamp at the rear face of said block.

1,472,737. FIREARM. THOMAS A. RYAN, Yonkers, N. Y. Filed Aug. 6, 1919. Serial No. 315,701. 6 Claims. (Cl. 42—3.)



1. In a firearm, the combination with a barrel, a firing mechanism cooperating therewith comprising a movable breech-bolt adapted to be driven back by the recoil of a shell upon discharge, actuating springs for said breech bolt and firing pin and a cocking rod connected to the breech-bolt, a shell magazine, and means to convey a loaded shell from said magazine to said barrel and a discharged shell from said barrel and arm comprising a two chambered carrier, an ejecting chamber having an ejecting opening, a shutter for normally closing said opening, connections between said bolt and shutter for operating the shutter and mechanism operated by the movements of said bolt for rotating said carrier through half a revolution at each shot, and additional means for manually retracting the bolt to load and cock the arm.

1,472,738. ALUMINUM-BASE ALLOY AND METHOD OF TREATING IT. ROBERT S. ARCHER and ZAY JEFFRIES, Cleveland, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 20, 1921. Serial No. 523,690. 24 Claims. (Cl. 148—11.)

1. A worked and quenched workable aluminum base alloy having substantially fixed physical properties while maintained at room temperature, free from magnesium and containing not less than about 3.5% copper, the physical properties of the alloy being capable of variable improvement by aging the alloy at a temperature above about 100° C.

1,472,739. ALUMINUM-BASE ALLOY. ROBERT S. ARCHER and ZAY JEFFRIES, Cleveland, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 20, 1921. Serial No. 523,691. 6 Claims. (Cl. 148—11.)

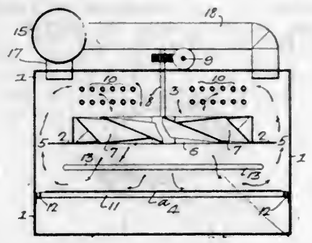
1. A quenched and artificially aged aluminum base alloy free from copper except as an impurity, and containing magnesium and not less than about 0.5% silicon, the alloy being hard and having high tensile strength.

1,472,740. ALUMINUM-BASE ALLOY. ROBERT S. ARCHER and ZAY JEFFRIES, Cleveland, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 29, 1921. Serial No. 525,802. 8 Claims. (Cl. 148—11.)

1. An aluminum base alloy containing about 4.5% copper, 0.5% magnesium, 0.75% silicon, the alloy having been quenched from a temperature above about 500° C. and artificially aged at a temperature above about 100° C.

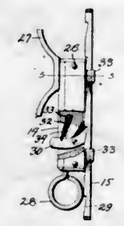
1,472,741. DRIER. ELWOOD B. AYRES, Philadelphia, Pa., assignor to Proctor & Schwartz, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 29, 1923. Serial No. 628,639. 3 Claims. (Cl. 34—12.)

1. The combination in a drier, of a casing; a horizontal partition in the casing forming a drying compartment and a circulating compartment, said partition having a fan opening; a circulating fan therein, the partition also having side passages less in area than



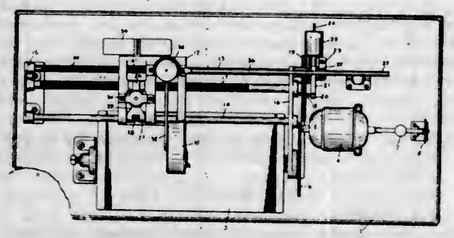
the fan opening so that the air in the drying compartment will be under pressure; and means, in the drying compartment, for supporting the material being dried.

1,472,742. CORD TIGHTENER FOR AWNING OPERATORS. THOMAS BENSON, Washington, D. C. Filed Oct. 8, 1920. Serial No. 415,581. 2 Claims. (Cl. 156—32.)



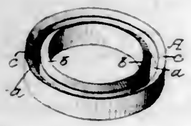
2. A cord tightener, comprising a ratchet rod and a slider mounted thereon, said slider comprising two matching sections, each section being provided with an L-shaped finger and the fingers closing about said rod when the sections are matched, one of said sections being provided with a recess, a spring pressed pawl mounted pivotally within said recess, the other of said sections closing said recess when the sections are matched, a cleat on one of said sections for the attachment of the cord, and a screw eye inserted into the lower end of one of said sections as a handle.

1,472,743. AUTOMATIC SOUND-REPRODUCING INSTRUMENT. SHIRAS A. BLAIR, Indianapolis, Ind. Filed Aug. 25, 1919, Serial No. 319,536. Renewed July 11, 1923. 10 Claims. (Cl. 58—14.)



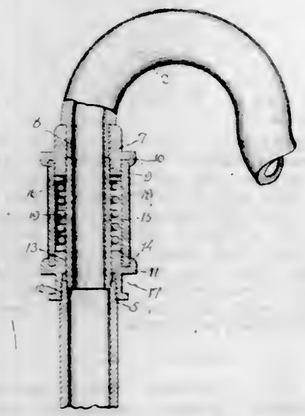
1. An automatic sound reproducing instrument comprising a sound record, a sound reproducing device and electrically operated means for automatically lowering and holding said sound reproducing device in operative position at any predetermined point on said record.

1,472,744. METHOD OF MAKING PACKING RINGS. CHARLES H. BUTLER and HARRY H. JONES, Philadelphia, Pa., assignors to E. F. Houghton & Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 19, 1922. Serial No. 582,947. 1 Claim. (Cl. 69—21.)



The process herein described of making packing rings, said process consisting in first making an annular depression in a piece of material from which the packing ring is to be made, then severing a ring section from the center portion and from the outside excess of material, and finally pressing the ring to shape in which a body portion is formed with inner and outer flanges, the flanges being beveled at their free edges.

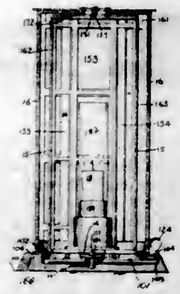
1,472,745. SELF-LOCKING SEAL FOR GAS AND OTHER METERS. PETER CHINZERIS, Atlanta, Ga. Filed Aug. 10, 1921. Serial No. 491,210. 2 Claims. (Cl. 292—317.)



1. A theft guard for gas and other meters consisting in a connection between the service pipe and the meter, having as a part thereof a frangible member, an expansible member, and a member engaging and expanding the expansible member in disconnecting the meter.

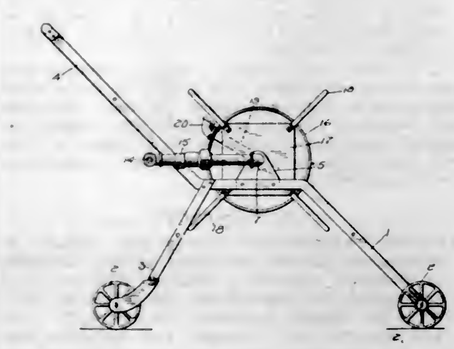
1,472,746. DEVICE FOR THE PROMOTION OF PIETY, RELIGIOUS DEVOTION, AND HIGH IDEALISTIC SENTIMENTS. JOSEPH I. COMBER, Philadelphia, Pa. Filed July 5, 1922. Serial No. 572,982. 5 Claims. (Cl. 40—69.)

1. In a device of the character described, the combination of a stationary base, a rotatable frame thereon, a series of translucent pictures arranged in divers groups, each group extending around said frame in a horizontal line at a different height, a rotatable housing on said base concealing all of said pictures except one of each group, said pictures thus exposed being positioned at equidistant openings around said housing, reading matter of artistic typography permanently impressed upon said housing, means to rotate said frame



in one direction only, means to illuminate said pictures by transmitted light, and means to rotate said housing on said base.

1,472,747. HOSE REEL. IRVIN A. CROCKER, Kankakee, Ill. Filed Mar. 16, 1922. Serial No. 544,150. 1 Claim. (Cl. 299—53.)

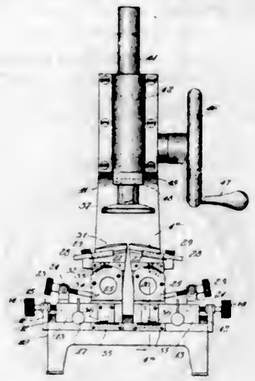


A device of the type described comprising a frame, a crank rotatably carried by said frame, a water pipe carried by said frame and being aligned with the axis of rotation of said crank, a stub pipe rigidly secured to said crank and being rotatably secured to said water pipe, a disc rigidly secured to said stub pipe, a hose carrying cylinder carried by said disc, arms fastened to said disc and extending radially from the sides of said cylinder, and a pipe extending at right angles to said stub pipe and communicating therewith, said pipe terminating adjacent to the outer surface of said cylinder.

1,472,748. DEVICE FOR POSITIONING LENS BLANKS ON BLANK HOLDERS. THEODORE B. DRESCHER, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 20, 1921. Serial No. 509,063. 13 Claims. (Cl. 51—277.)

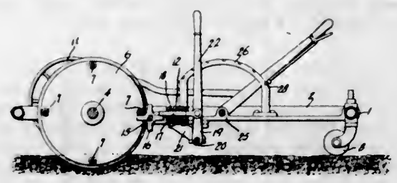
1. A device for positioning lens blanks on a blank holder comprising a plurality of positioning members

provided with blank supporting portions and mounted for relative tilting movement to vary the angular



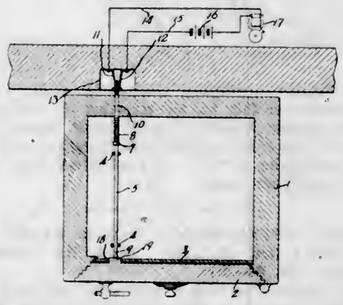
relation between said portions, and a carrier for a blank holder, said carrier being movable toward and from said members to bring the blanks and holder together.

1,472,749. WEEDER. GEORGE W. FAIRBOURN, Salt Lake City, Utah. Filed Jan. 12, 1922. Serial No. 528,749. 10 Claims. (Cl. 97—144.1.)



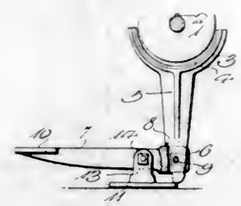
1. In a weeder, weeder bars adapted to be dragged in the ground, cutting elements intermediate the ends of said bars, traction wheels, and means for selectively supporting said weeder on the weeder bars or the traction wheels.

1,472,750. BURGLAR ALARM. JAMES F. GORMAN and FRANK C. GORMAN, New York, N. Y. Filed Dec. 13, 1921. Serial No. 522,102. 5 Claims. (Cl. 177—316.)



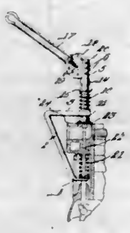
3. A burglar alarm apparatus for containers, which comprises a signalling circuit switch, a wall having a recess in which said switch is located, and a switch-controlling member projecting from said container to engage with the switch and hold it open, said switch normally tending to remain closed when not so engaged.

1,472,751. STOPPING DEVICE FOR FOLDING MACHINES. OMER C. GOULET, Fall River, Mass., assignor of one-half to A. E. Perron, Fall River, Mass. Filed Aug. 31, 1922. Serial No. 585,473. 2 Claims. (Cl. 188—74.)



1. A brake of the character described comprising a treadle pivotally mounted intermediate its length and having one end provided with spaced arms and a brake shoe having a depending standard having its lower end portion pivotally mounted between the arms of said treadle and having a shoulder engaging the upper face of said treadle.

1,472,752. SPRING COMPRESSOR. CHARLES N. GRAVES, Shreveport, La., assignor to The Graves Tool Co., Inc., Shreveport, La., a Corporation of Louisiana. Filed Jan. 14, 1922. Serial No. 529,212. 2 Claims. (Cl. 29—86.3.)

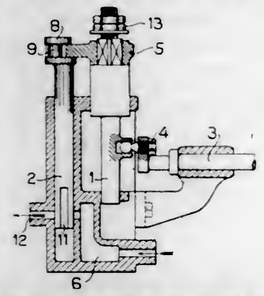


1. An angle frame having its lower end offset to provide a jaw, a second jaw opposite the first mentioned jaw, guide means for the last mentioned jaw, means for adjusting the last mentioned jaw with respect to the first mentioned jaw, a hollow standard on the upper portion of the frame in a line with the jaw, a plunger movable in the standard and through the upper portion of the frame, a swiveled head on the lower end of the plunger below the frame, a roller journaled in the upper end of the plunger, spring means between the frame and plunger influencing the latter outward through the standard, and swingable means adjustably associated with the standard for contacting the roller to move the plunger in an opposite direction.

1,472,753. OIL-DISTRIBUTING DEVICE. OTTO HAJEK, Vienna, Austria, assignor to the Firm of Alex. Friedmann, Vienna, Austria. Filed May 25, 1921. Serial No. 472,611. 5 Claims. (Cl. 184—27.)

4. In an oil pump, in combination, a group of pump plungers having eccentric trunnions thereon, a shaft having its axis arranged longitudinally with respect to

the axes of said plungers, means for reciprocating and oscillating said shaft, and means for transmitting reciprocatory and oscillatory movements from said shaft



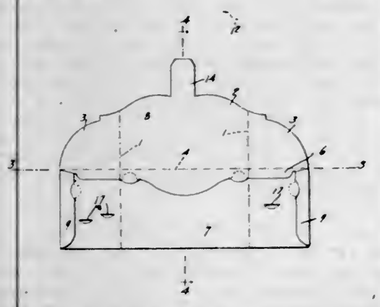
to said plungers, comprising an actuating member which is reciprocated and oscillated by said shaft and operatively engages the eccentric trunnions on said plungers.

1,472,754. LEAF SPRING. EDWARD J. HARVEY, Racine, Wis. Filed July 25, 1921. Serial No. 487,313. 4 Claims. (Cl. 267—47.)



1. A spring, comprising a plurality of superposed upwardly curved leaves of relatively thin material and of varying lengths positioned in stepped formation, a master leaf of thicker material mounted on top of the longer leaf of the thin leaves and having eyed ends, and a single rebound leaf of relatively thick material and of greater length than the length of the shortest thin leaf mounted on the master leaf and curved downwardly to an extent to maintain a continuous pressure on the master leaf under all strains, said leaves forming outer spring sections defined as between the outer ends of the rebound leaf and the outer ends of the master leaf for absorbing slight shocks and an interposed section between the ends of the rebound leaf approximately rigid to slight shocks for absorbing relatively heavier shocks, said sections merging into each other between the adjacent ends of the shorter thin leaf and the rebound leaf.

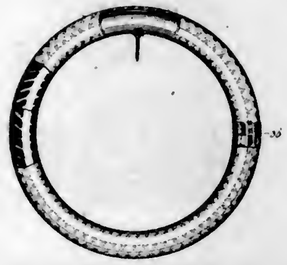
1,472,755. FOLDING CONTAINER. ARTHUR L. HAWES, Freeport, N. Y., assignor to Empire Notion Company, New York, N. Y., a Firm composed of Ben Zion Hauser, Isaac Scheich, and Samuel D. Wallach. Filed Nov. 23, 1921. Serial No. 517,341. 6 Claims. (Cl. 229—87.5.)



1. A container including a blank having transverse fold lines dividing the same into a main body portion, and a wing portion at each side of the body portion,

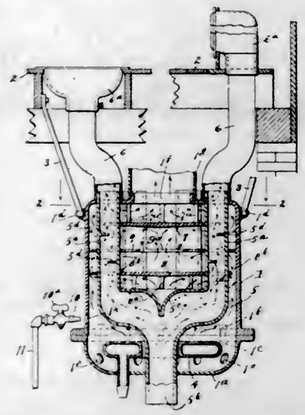
each of said portions being folded to provide an independent pocket, a common flap for covering all of said pockets, and a flat extension foldable over the rear wall of one of the pockets.

1,472,756. METHOD OF MANUFACTURING INNER TUBES FOR VEHICLE TIRES. ALBERT ENNIS HENDERSON, Toronto, Ontario, Canada. Filed June 5, 1919. Serial No. 301,914. 14 Claims. (Cl. 154—14.)



11. The method of making tire tubes comprising forming a tube of rubber, and providng it with overlapping radially separated, oppositely located longitudinal reenforcements at the tread-side and rim-side, vulcanizing it and joining its ends, substantially as set forth.

1,472,757. HEATING SYSTEM. THEODORE A. HOLMBERG, Stamford, Conn. Filed Dec. 29, 1922. Serial No. 609,679. 8 Claims. (Cl. 126—116.)

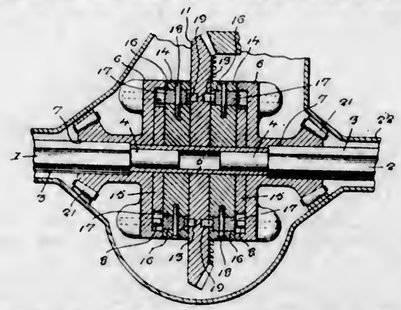


1. A heating apparatus, comprising a flame enclosing generator casing, an air receiving and distributing manifold therein including branch pipes, means in said generator casing for heating said manifold, and means for diverting the products of combustion over and between said branch pipes.

1,472,758. DIFFERENTIAL. SNOE O. HULETT, Corry, Pa. Filed Oct. 11, 1921. Serial No. 506,966. 5 Claims. (Cl. 74—7.)

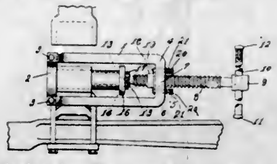
1. In combination with a jack shaft and rear shafts of a motor vehicle, a master wheel driven by the jack shaft, a pair of dog carrying members arranged adjacent the master wheel, means for connecting the said members with the master wheel so that said wheel will have a certain amount of movement independently

of said members, dogs carried by said members and adapted to be moved into reverse and forward positions by the movement of the master wheel, a member



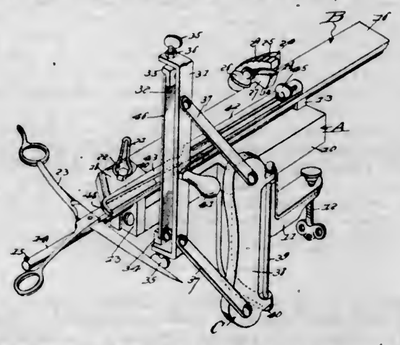
secured to the inner end of each of the rear shafts and spring pressed abutments on each member for engaging the dogs.

1,472,759. BUSHING TOOL. ARTHUR F. HUNTINGTON, Portsmouth, Va. Filed Mar. 31, 1922. Serial No. 548,414. 2 Claims. (Cl. 29—88.2.)



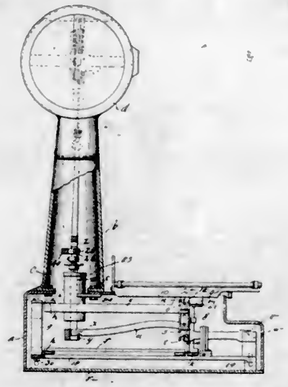
1. In a device for the purpose set forth, a substantially U-shaped frame having a removable end and a screw freely received through its other end, a swiveled head on the inner end of the screw, a handle slidable through the opposite end of the screw, a threaded sleeve in the frame engaged by the screw, spring means holding the sleeve in contact with the end of the frame and preventing the turning of the sleeve on the frame, and said means permitting a limited longitudinal sliding movement of the screw through the frame.

1,472,760. SCISSORS SHARPENER. THOMAS J. JONES, Catlin, Ill.; Esther Pratt Jones, administratrix of said Thomas J. Jones, deceased. Filed July 28, 1922. Serial No. 578,173. 7 Claims. (Cl. 76—82.)



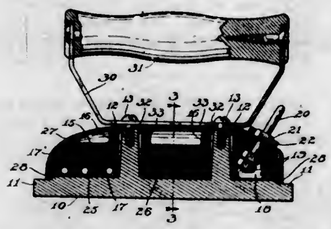
1. A scissors sharpening apparatus having means for supporting a blade and a tool carrier movable in an arcuate path in a plane substantially perpendicular to the plane of the blade support, the blade support consisting of a carrier movable in a path parallel with the plane of a blade supported thereby.

1,472,761. SCALE. BERT W. KING, Detroit, Mich. Filed May 14, 1920. Serial No. 381,246. 24 Claims. (Cl. 265—69.)



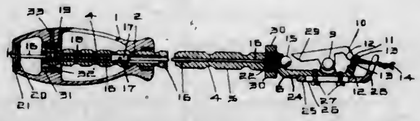
1. In a scale, the combination of a platform, levers for supporting the same, and a thermostat comprising a ribbon arranged to take part of the load and a thermostatic C spring secured to the end of the ribbon for the purpose of moving the ribbon and varying the resistance to the load as the temperature varies.

1,472,762. ELECTRIC IRON. YOUNG MOORE, Indianapolis, Ind., assignor, by mesne assignments, to Liberty Electric Company, a Corporation of Indiana. Filed Sept. 20, 1921. Serial No. 502,061. 15 Claims. (Cl. 219—25.)



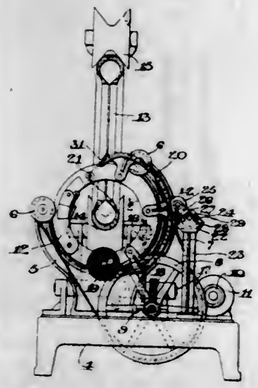
1. An electric iron, comprising a base plate, a molded block of insulating material resting upon such plate, said molded block having a continuous serpentine groove in its under face, said serpentine groove being composed of parts extending generally lengthwise of the iron, a continuous helical coil of wire laid free in such serpentine groove, an open-bottom metal shell enclosing such molded block, and clamping means for clamping said shell to said base with the molded block between them.

1,472,763. WIRE-TYING TOOL. LE DRU R. POMEROY, Toledo, Ohio, assignor, by direct and mesne assignments, to Bates Valve Bag Company, a Corporation of West Virginia. Filed June 19, 1919. Serial No. 305,327. 30 Claims. (Cl. 140—119.)



1. A twisting tool comprising a stem, having a head provided with a pair of separate seats in a common diameter, and a jaw swingable relatively to the head to cooperate with said seats.

1,472,764. TIRE-WRAPPING MACHINE. JOHN SCHERNER, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Aug. 4, 1921. Serial No. 489,845. 5 Claims. (Cl. 242—6.)



1. In a wrapping machine, the combination, with an annular shuttle having an open center to permit the rotation of a tire casing therein, a source of wrapping material mounted on said shuttle, means to support and rotate the tire casing with respect to said shuttle, and means for rotating said shuttle whereby to wrap material about said casing spirally, of a table for the wrapping material carried by the shuttle, said table of substantially twice the length of the cross periphery of the tire casing and means for supplying adhesive to said material while traveling with and over said table.

1,472,765. SASH PULLEY. RUSSELL H. BOWEN, Philadelphia, Pa., assignor to The American Pulley Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 10, 1922. Serial No. 542,621. 13 Claims. (Cl. 16—215.)



1. In a sash pulley or the like, a casing having opposite sides expanded inwardly to form a pair of opposedly stepped and mutually contacting supports, and means connecting the contacting faces of said supports whereby to form a shouldered cylindric axle for a pulley wheel.

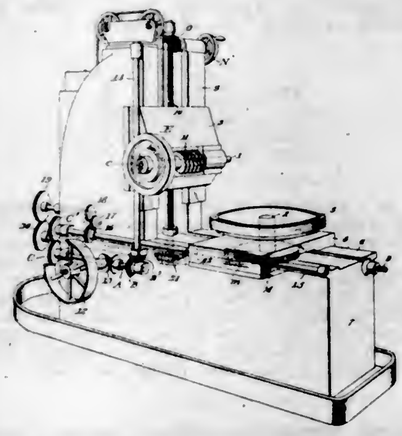
1,472,766. CURTAIN SUPPORT. JAMES FRASER, Edgemoor, Del. Filed Apr. 11, 1922. Serial No. 551,565. 3 Claims. (Cl. 156—21.)

3. A curtain supporting device consisting of wire bent to form a curved portion with an extension at one end, shaped to form a looper curtain engaging hook comprising a stem and a bill which lies at the same side of the stem as the immediately adjacent portion of said curved portion and having its free end substantially closer to said curved portion than is the curtain engaging portion of said hook, the end of said curved portion opposite to that at which said hook extension is formed, being shaped



to form a hook adapted to hook about the stem of the first mentioned hook and thereby convert said closed portion into a closed rod encircling loop.

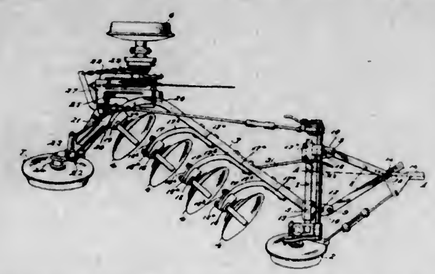
1,472,767. SIMPLIFIED SPUR-HOBBING MACHINE. WILLIAM F. ZIMMERMANN, Maplewood, N. J., assignor to Gould & Eberhardt, Newark, N. J., a Corporation of New Jersey. Filed Sept. 30, 1922. Serial No. 591,565. 16 Claims. (Cl. 90—3.)



1. A hobbing-machine combining a hob-supporting spindle and a work-supporting spindle; a transmission connecting said spindles and consisting of not more than three shafts, two of said shafts being arranged parallel to each other and transversely to one of said spindles, the adjacent ends of said two parallel shafts being directly connected by two change gears of the spur-tooth type, the third shaft of said transmission being arranged transversely to the other spindle and being geared at one end directly to said spindle and at its other end directly to the intermediate one of said two parallel shafts; a prime-mover geared directly to the intermediate shaft whereby the power for driving said spindles will be derived from the respective ends thereof; and means for effecting a progressive relative translation between said spindles in a direction parallel with the work-supporting spindle.

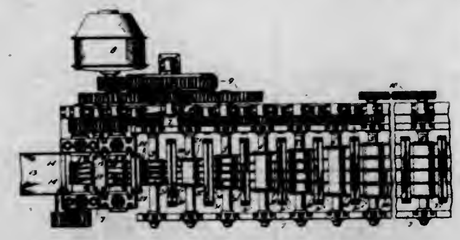
1,472,768. WHEELED PLOW. HARRY S. DICKINSON, Moline, Ill., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Original application filed July 25, 1918, Serial No. 246,640. Divided and this application filed Feb. 14, 1919. Serial No. 276,890. 11 Claims. (Cl. 97—53.)

1. A disk plow having a forward frame adapted to receive the draft, a plow carrying beam connected thereto so as to be adjustable horizontally to different positions relative to the line of draft, a plurality of curved arms



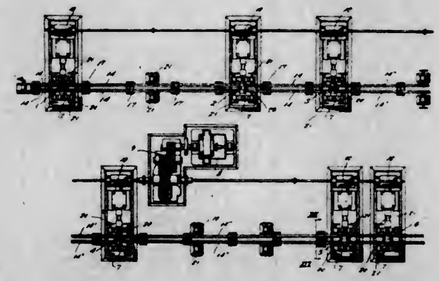
supported by said beam projecting furrow-ward, and disc plows adjustable horizontally along said curved arms to vary the angle of the plows relative to the line of draft.

1,472,769. EXPANDED-METAL MANUFACTURE. HARRY M. NAUGLE and ARTHUR J. TOWNSEND, Canton, Ohio. Filed Apr. 16, 1921. Serial No. 461,806. 43 Claims. (Cl. 164—6.6.)



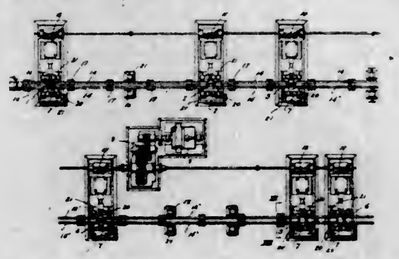
1. The method of expanding metal sheets and the like, which includes slitting the sheet to form bonds and strands, then flattening the bonds and strands to the original plane of the sheet, then longitudinally corrugating the bonds, and then expanding the resultant meshes.

1,472,770. STEEL-JOIST MANUFACTURE. HARRY M. NAUGLE and ARTHUR J. TOWNSEND, Canton, Ohio, assignors, by direct and mesne assignments, to Jones and Laughlin Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 20, 1921. Serial No. 471,295. 18 Claims. (Cl. 164—6.6.)



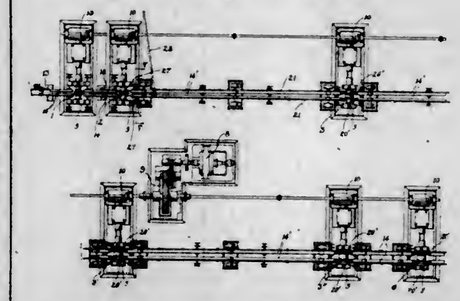
1. The method of expanding the web of a structural shape or the like slit to form bars, which includes the operations of elongating the bars, then laterally deploying the same, and then flattening the bars to the plane of the web.

1,472,771. STEEL-JOIST MACHINE. HARRY M. NAUGLE and ARTHUR J. TOWNSEND, Canton, Ohio, assignors, by direct and mesne assignments, to Jones and Laughlin Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Original application filed May 20, 1921, Serial No. 471,295. Divided and this application filed June 24, 1921. Serial No. 480,143. 15 Claims. (Cl. 164—6.6.)



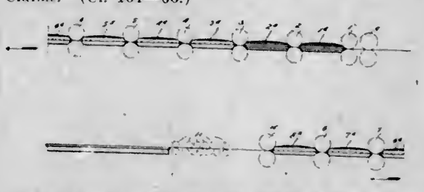
1. Apparatus for expanding the web of a flanged structural shape or the like, including means slitting the web to form bars, means stretching the bars, means laterally deploying the bars, and means flattening the bars into the plane of the web permitting separation of the flanges.

1,472,772. STEEL-JOIST MANUFACTURE. HARRY M. NAUGLE and ARTHUR J. TOWNSEND, Canton, Ohio, assignors, by direct and mesne assignments, to Jones and Laughlin Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 22, 1921. Serial No. 486,880. 21 Claims. (Cl. 164—6.6.)



1. The method of expanding the web of a flanged structural shape or the like, which consists in slitting the web to form bars, and separating the flanges progressively from end to end to longitudinally stretch and laterally incline the bars.

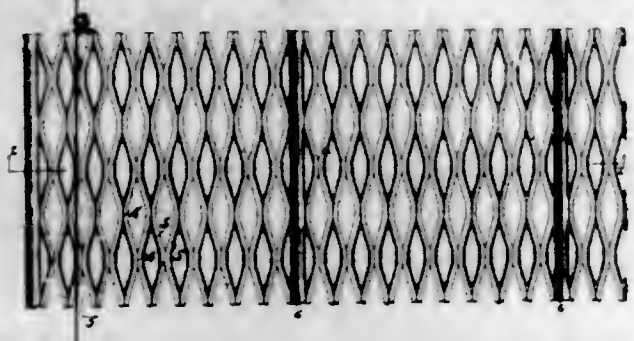
1,472,773. EXPANDED-METAL MANUFACTURE. HARRY M. NAUGLE and ARTHUR J. TOWNSEND, Canton, Ohio. Filed July 27, 1922. Serial No. 577,831. 12 Claims. (Cl. 164—66.)



1. The method of expanding metal sheets and the like cut with parallel rows of interrupted longitudinal slits in staggered relation to form bonds and bars, which consists in reversely corrugating alternate rows of bonds longitudinally and inclining adjacent rows of bars lat-

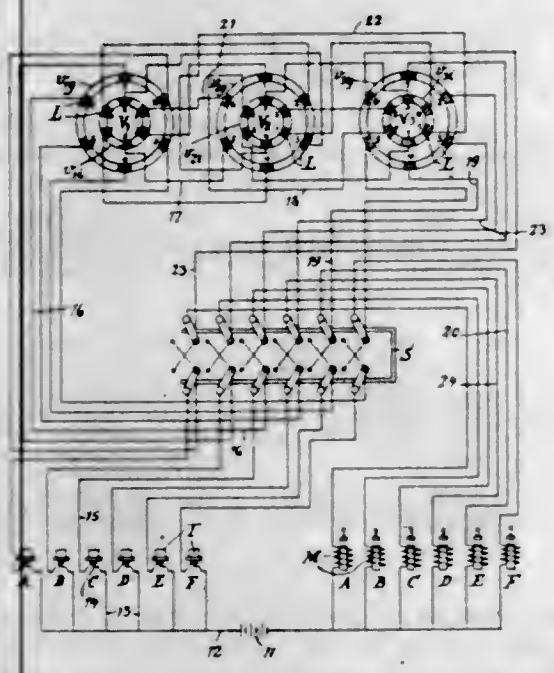
erally, then guiding the corrugations of certain rows of bonds to laterally separate all the bonds and expand the mesh, and then deepening the corrugations and further expanding the mesh by a repetition of like operations.

1,472,774. EXPANDED METAL. HARRY M. NAUGLE and ARTHUR J. TOWNSEND, Canton, Ohio. Original application filed Apr. 16, 1921, Serial No. 461,806. Divided and this application filed Aug. 22, 1922. Serial No. 583,611. 4 Claims. (Cl. 72—117.)



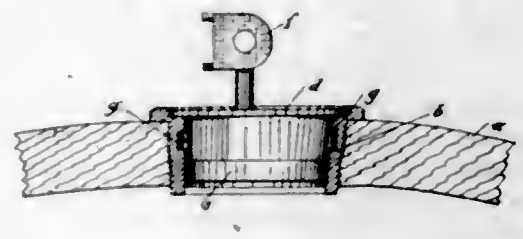
1. Expanded sheet metal having continuous diamond meshes with reversely corrugated bonds and laterally inclined strands in the same plane.

1,472,775. CRYPTOGRAPH. HERMANN AUGUST THORVALD WAHNÖE, Copenhagen, Denmark. Filed Mar. 28, 1923. Serial No. 628,237. 2 Claims. (Cl. 35—13.)



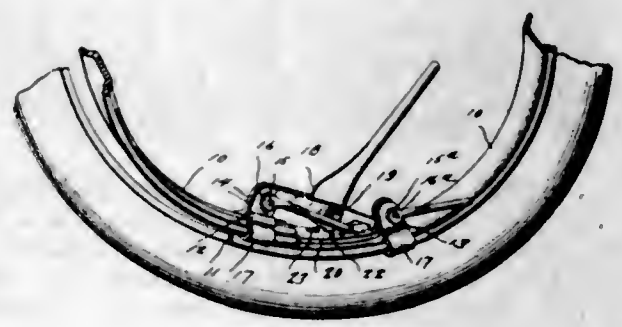
1. An automatic cryptograph apparatus comprising a plurality of alternators, each consisting of an outer annular rotatable body, and an inner body, each body having alternately disposed electrical contacts arranged thereon and in circuit with each other, the said alternators being in series with a key board and type lever actuating means, the operation of the keys closing the circuit to rotate the outer bodies with respect to each other and also with respect to the inner annular body, so as to change their mutual relation thereby effecting a constantly varied mutual transposition of symbols.

1,472,776. BUNG FOR CASKS. ALEXANDER RADÓ, MICHAEL MAYER, and LUDWIG VON EGERHÁZY, Budapest, Hungary. Filed Nov. 30, 1921. Serial No. 519,018. 3 Claims. (Cl. 217—98.)



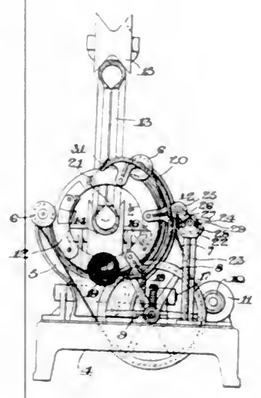
1. A bung for casks comprising a metallic socket fixed in the stave of the cask, a circular groove formed in said socket, a metallic bung inserted in the socket, locking bolts in the interior of the bung adapted to project into said circular groove and a key for operating the locking bolts.

1,472,777. DEMOUNTABLE-RIM TOOL. JOHN BELL STROUD, Pass Christian, Miss. Filed Nov. 20, 1922. Serial No. 602,167. 1 Claim. (Cl. 157—1.)



In a rim tool of the class specified the combination with a clamp to grip one end of a split rim and having rigid substantially right angular arms projecting normally over the other end of the split rim, and a second clamp to grip said other end of the split rim and having a perforated plate pivoted thereto, of a lever pivoted to the projecting arms and having a cam surface for raising one end of the rim radially, and a tooth engageable with the perforations of the plate for shifting the ends of the rim circumferentially for the purpose specified.

1,472,764. TIRE-WRAPPING MACHINE. JOHN SCHENSA, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Aug. 4, 1921. Serial No. 489,845. 5 Claims. (Cl. 242—6.)



1. In a wrapping machine, the combination, with an annular shuttle having an open center to permit the rotation of a tire casing therein, a source of wrapping material mounted on said shuttle, means to support and rotate the tire casing with respect to said shuttle, and means for rotating said shuttle whereby to wrap material about said casing spirally, of a table for the wrapping material carried by the shuttle, said table of substantially twice the length of the cross periphery of the tire casing and means for supplying adhesive to said material while traveling with and over said table.

1,472,765. SASH PULLEY. RUSSELL H. BOWEN, Philadelphia, Pa., assignor to The American Pulley Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 10, 1922. Serial No. 542,621. 13 Claims. (Cl. 16—215.)



1. In a sash pulley or the like, a casing having opposite sides expanded inwardly to form a pair of oppositely stepped and mutually contacting supports, and means connecting the contacting faces of said supports whereby to form a shouldered cylindric axle for a pulley wheel.

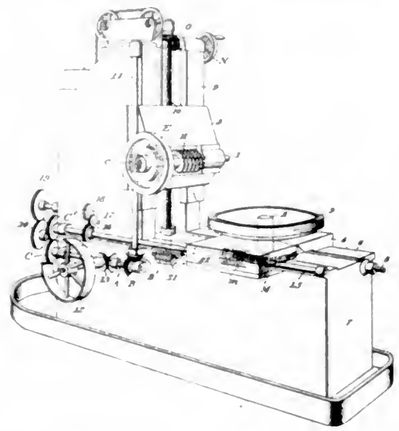
1,472,766. CURTAIN SUPPORT. JAMES FRASER, Edgemoor, Del. Filed Apr. 11, 1922. Serial No. 551,565. 3 Claims. (Cl. 156—21.)

3. A curtain supporting device consisting of wire bent to form a curved portion with an extension at one end, shaped to form a looper curtain engaging hook comprising a stem and a bill which lies at the same side of the stem as the immediately adjacent portion of said curved portion and having its free end substantially closer to said curved portion than is the curtain engaging portion of said hook, the end of said curved portion opposite to that at which said hook extension is formed, being shaped



to form a hook adapted to hook about the stem of the first mentioned hook and thereby convert said closed portion into a closed rod encircling loop.

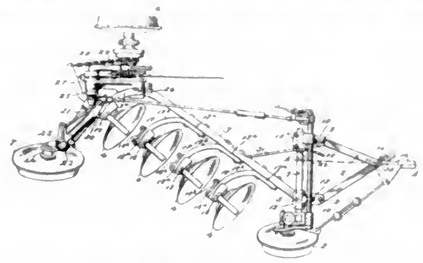
1,472,767. SIMPLIFIED SPUR-HOBBING MACHINE. WILLIAM F. ZIMMERMANN, Maplewood, N. J., assignor to Gould & Eberhardt, Newark, N. J., a Corporation of New Jersey. Filed Sept. 30, 1922. Serial No. 591,565. 16 Claims. (Cl. 90—3.)



1. A hobbing-machine combining a hob-supporting spindle and a work-supporting spindle; a transmission connecting said spindles and consisting of not more than three shafts, two of said shafts being arranged parallel to each other and transversely to one of said spindles, the adjacent ends of said two parallel shafts being directly connected by two change gears of the spur-tooth type, the third shaft of said transmission being arranged transversely to the other spindle and being geared at one end directly to said spindle and at its other end directly to the intermediate one of said two parallel shafts; a prime-mover geared directly to the intermediate shaft whereby the power for driving said spindles will be derived from the respective ends thereof; and means for effecting a progressive relative translation between said spindles in a direction parallel with the work-supporting spindle.

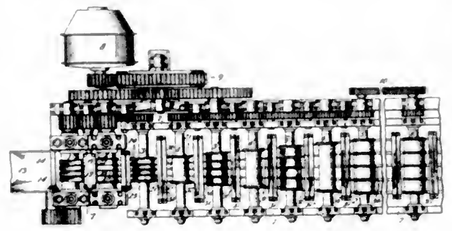
1,472,768. WHEELED PLOW. HARRY S. DICKINSON, Moline, Ill., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Original application filed July 25, 1918, Serial No. 246,640. Divided and this application filed Feb. 14, 1919. Serial No. 276,890. 11 Claims. (Cl. 97—53.)

1. A disk plow having a forward frame adapted to receive the draft, a plow carrying beam connected thereto so as to be adjustable horizontally to different positions relative to the line of draft, a plurality of curved arms



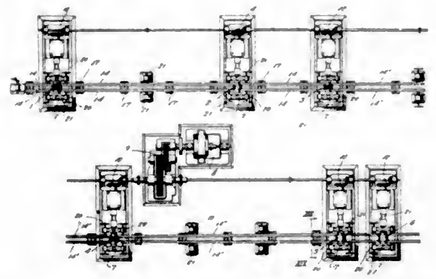
supported by said beam projecting furrow-ward, and disc plows adjustable horizontally along said curved arms to vary the angle of the plows relative to the line of draft.

1,472,769. EXPANDED-METAL MANUFACTURE. HARRY M. NAUGLE and ARTHUR J. TOWNSEND, Canton, Ohio. Filed Apr. 16, 1921. Serial No. 461,806. 43 Claims. (Cl. 164—6.6.)



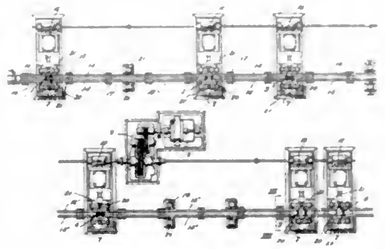
1. The method of expanding metal sheets and the like, which includes slitting the sheet to form bonds and strands, then flattening the bonds and strands to the original plane of the sheet, then longitudinally corrugating the bonds, and then expanding the resultant meshes.

1,472,770. STEEL-JOIST MANUFACTURE. HARRY M. NAUGLE and ARTHUR J. TOWNSEND, Canton, Ohio, assignors, by direct and mesne assignments, to Jones and Laughlin Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 20, 1921. Serial No. 471,295. 18 Claims. (Cl. 164—6.6.)



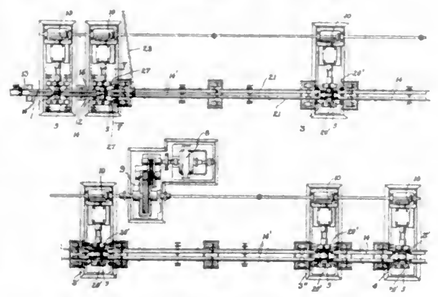
1. The method of expanding the web of a structural shape or the like slit to form bars, which includes the operations of elongating the bars, then laterally deploying the same, and then flattening the bars to the plane of the web.

1,472,771. STEEL-JOIST MACHINE. HARRY M. NAUGLE and ARTHUR J. TOWNSEND, Canton, Ohio, assignors, by direct and mesne assignments, to Jones and Laughlin Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Original application filed May 20, 1921, Serial No. 471,295. Divided and this application filed June 24, 1921. Serial No. 480,143. 15 Claims. (Cl. 164—6.6.)



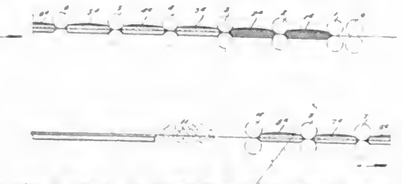
1. Apparatus for expanding the web of a flanged structural shape or the like, including means slitting the web to form bars, means stretching the bars, means laterally deploying the bars, and means flattening the bars into the plane of the web permitting separation of the flanges.

1,472,772. STEEL-JOIST MANUFACTURE. HARRY M. NAUGLE and ARTHUR J. TOWNSEND, Canton, Ohio, assignors, by direct and mesne assignments, to Jones and Laughlin Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 22, 1921. Serial No. 486,880. 21 Claims. (Cl. 164—6.6.)



1. The method of expanding the web of a flanged structural shape or the like, which consists in slitting the web to form bars, and separating the flanges progressively from end to end to longitudinally stretch and laterally incline the bars.

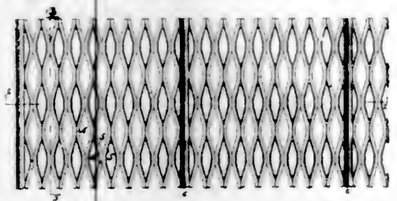
1,472,773. EXPANDED-METAL MANUFACTURE. HARRY M. NAUGLE and ARTHUR J. TOWNSEND, Canton, Ohio. Filed July 27, 1922. Serial No. 577,831. 12 Claims. (Cl. 164—66.)



1. The method of expanding metal sheets and the like cut with parallel rows of interrupted longitudinal slits in staggered relation to form bonds and bars, which consists in reversely corrugating alternate rows of bonds longitudinally and inclining adjacent rows of bars lat-

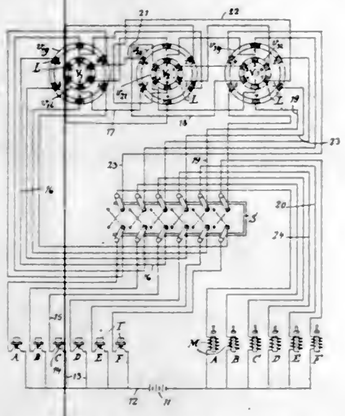
erally, then guiding the corrugations of certain rows of bonds to laterally separate all the bonds and expand the mesh, and then deepening the corrugations and further expanding the mesh by a repetition of like operations.

1,472,774. EXPANDED METAL. HARRY M. NAUGLE and ARTHUR J. TOWNSEND, Canton, Ohio. Original application filed Apr. 16, 1921, Serial No. 461,806. Divided and this application filed Aug. 22, 1922. Serial No. 583,611. 4 Claims. (Cl. 72—117.)



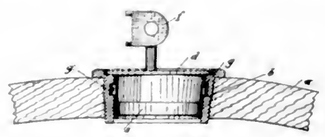
1. Expanded sheet metal having continuous diamond meshes with reversely corrugated bonds and laterally inclined strands in the same plane.

1,472,775. CRYPTOGRAPH. HERMANN AUGUST THORVALD WAHNÖE, Copenhagen, Denmark. Filed Mar. 28, 1923. Serial No. 628,237. 2 Claims. (Cl. 35—13.)



1. An automatic cryptograph apparatus comprising a plurality of alternators, each consisting of an outer annular rotatable body, and an inner body, each body having alternately disposed electrical contacts arranged thereon and in circuit with each other, the said alternators being in series with a key board and type lever actuating means, the operation of the keys closing the circuit to rotate the outer bodies with respect to each other and also with respect to the inner annular body, so as to change their mutual relation thereby effecting a constantly varied mutual transposition of symbols.

1,472,776. BUNG FOR CASKS. ALEXANDER RADÓ, MICHAEL MAYER, and LUDWIG VON EGERHÁZY, Budapest, Hungary. Filed Nov. 30, 1921. Serial No. 519,018. 3 Claims. (Cl. 217—98.)



1. A bung for casks comprising a metallic socket fixed in the stave of the cask, a circular groove formed in said socket, a metallic bung inserted in the socket, locking bolts in the interior of the bung adapted to project into said circular groove and a key for operating the locking bolts.

1,472,777. DEMOUNTABLE-RIM TOOL. JOHN BELL STROUD, Pass Christian, Miss. Filed Nov. 20, 1922. Serial No. 602,167. 1 Claim. (Cl. 157—1.)



In a rim tool of the class specified the combination with a clamp to grip one end of a split rim and having rigid substantially right angular arms projecting normally over the other end of the split rim, and a second clamp to grip said other end of the split rim and having a perforated plate pivoted thereto, of a lever pivoted to the projecting arms and having a cam surface for raising one end of the rim radially, and a tooth engageable with the perforations of the plate for shifting the ends of the rim circumferentially for the purpose specified.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abbott, Hall & Co., also doing business as John Brandland, Ltd., and Venus Packing Co., Boston, Mass. Canned fish. 173,753; Oct. 2; Serial No. 177,580; published July 3, 1923.

Adams, Alfred B., New York, N. Y. Biotherapeutic and opotherapeutic products. 174,002; Oct. 2; Serial No. 176,008; published July 17, 1923.

Adolph Coors Company, The, Golden, Colo. Bakers' sirup used in making bread and similar articles of food made from malt and corn. 173,604; Oct. 2; Serial No. 166,591; published July 3, 1923.

Aeroshade Company, The, Waukesha, Wis. Porch and window shades. 173,675; Oct. 2; Serial No. 178,016; published June 12, 1923.

African & Eastern Trading Co., Inc., New York, N. Y. Cotton piece goods. 174,005; Oct. 2; Serial No. 175,280; published July 17, 1923.

Ainsa, M., & Sons, Inc., El Paso, Tex., assignors to Bowen-Oglesby Milling Company, Independence, Kans. Wheat flour. 173,642; Oct. 2; Serial No. 157,908; published Oct. 10, 1922.

Allen & Lewis, Portland, Oreg. Canned fruits and vegetables. 173,848; Oct. 2; Serial No. 174,379; published July 3, 1923.

Allied Golf Company, Chicago, Ill. Golf clubs. 173,955; Oct. 2; Serial No. 169,272; published July 10, 1923.

Altoona Packing Company, Astoria, Oreg. Canned fish. 173,924; Oct. 2; Serial No. 178,542; published July 17, 1923.

Alys. (See Wildes, Alice S.)

American Agriculturist, Inc., New York, N. Y. Periodical publications. 173,680; Oct. 2; Serial No. 178,204; published July 10, 1923.

American Bleached Goods Company, Inc., New York, N. Y. Cotton poplins in the piece. 173,722; Oct. 2; Serial No. 179,255; published July 10, 1923.

American Bleached Goods Company, Inc., New York, N. Y. Cotton goods in the piece. 174,132; Oct. 2.

American Cutlery Company, Chicago, Ill. Table knives of base metal. 174,102; Oct. 2; Serial No. 140,621; published July 3, 1923.

American Education Press, Inc., Columbus, Ohio. Name of a publication. 173,881; Oct. 2; Serial No. 176,246; published June 12, 1923.

American Fibre Chair Seat Corp., Long Island City, N. Y. Fiber chair seats. 173,769; Oct. 2; Serial No. 177,028; published June 12, 1923.

American Varnish Co., The, Chicago, Ill. Paint enamels. 173,708; Oct. 2; Serial No. 177,982; published June 26, 1923.

American Varnish Co., The, Chicago, Ill. Paint enamels. 173,709; Oct. 2; Serial No. 177,891; published June 26, 1923.

Ansco Company, Binghamton, N. Y. Photographic films. 173,990–7; Oct. 2; Serial No. 178,797–804; published July 10, 1923.

Amsterdam, Peter, doing business as The Amsterrose Co., Philadelphia, Pa., and New York, N. Y. Shaving cream. 173,814; Oct. 2; Serial No. 171,720; published June 5, 1923.

Amsterose Co., The. (See Amsterdam, Peter.)

Anaconda Copper Mining Company, New York, N. Y. Tubes. 173,938; Oct. 2; Serial No. 177,062; published July 10, 1923.

Anchor Sales Service. (See Mason, Robert L.)

Anti-Itis Company. (See Standard Crayon Manufacturing Company.)

Arcadia, The. (See Dilas, Harry.)

Armour and Company, Chicago, Ill. Medicinal preparation used in the treatment of diabetes. 173,987; Oct. 2; Serial No. 178,702; published July 17, 1923.

Associated Editors, Chicago, Ill. Title for cartoons. 173,765; Oct. 2; Serial No. 177,119; published June 12, 1923.

Associated Merchandising Corporation, Newark, N. J., and New York, N. Y. Tape. 173,715; Oct. 2; Serial No. 178,704; published July 3, 1923.

Associated Merchandising Corporation, Newark, N. J., and New York, N. Y. Dress shields. 173,716; Oct. 2; Serial No. 178,705; published July 3, 1923.

Atlantic Mills, Stottville, N. Y. Cotton and woolen piece goods and piece goods of mixed cotton and wool. 173,929; Oct. 2; Serial No. 177,947; published July 17, 1923.

Atlantic Mills, Stottville, N. Y. Woolen piece goods. 173,930; Oct. 2; Serial No. 177,946; published July 17, 1923.

Atlas China Company, The, Niles, Ohio. Chinaware. 174,083; Oct. 2; Serial No. 181,104; published July 10, 1923.

Atlas Hammock Co., New York, N. Y. Couch hammocks and stands therefor. 173,806; Oct. 2; Serial No. 173,048; published July 3, 1923.

Auth, N., Prov. Co., Washington, D. C. Bovine and swinish and mutton meats, hams, sausages, etc. 173,629; Oct. 2; Serial No. 162,092; published July 3, 1923.

Auth, N., Prov. Co., Washington, D. C. Bovine and swinish and mutton meats and meat products. 173,644; Oct. 2; Serial No. 162,093; published July 3, 1923.

Aut-O-Luk Card Co. (See Storgaard, Henry.)

Baker Brush Co., Inc., New York, N. Y. Paintbrushes. 173,736; Oct. 2; Serial No. 178,490; published June 19, 1923.

Baker, Jos. G., Richmond, Va. Cleanser for all kinds of finished surfaces. 174,014; Oct. 2; Serial No. 175,458; published June 5, 1923.

Baldacci, Valentino, doing business as Laboratorio Chimico Farmaceutico V. Baldacci, Pisa, Italy. Pharmaceutical preparations for coughs, whooping cough, etc. 174,112; Oct. 2; Serial No. 170,921; published July 3, 1923.

Ballantyne, D., Brothers & Company, Limited, Peebles, Scotland. Knitted wear for ladies, gentlemen, and children. 173,831; Oct. 2; Serial No. 175,053; published June 26, 1923.

Bancroft, Joseph, & Sons Company, Wilmington, Del. Cotton piece goods. 174,027; Oct. 2; Serial No. 176,440; published June 19, 1923.

Banks, Llewellyn A., doing business as Citrus Growers Cash Association, Los Angeles, Calif. Fresh citrous and deciduous fruits. 173,645; Oct. 2; Serial No. 161,950; published July 3, 1923.

Barash Brothers, Inc., New York, N. Y. Rickrack braid and shirred ribbon elastic. 174,129; Oct. 2; Serial No. 180,738; published July 3, 1923.

Barbour Flax Spinning Co., Paterson, N. J. Hand and machine sewing linen threads. 174,092; Oct. 2; Serial No. 179,984; published July 10, 1923.

Barnhart, Williamson L., New York and Babylon, N. Y. Printed articles and letters upon the subject of salesmanship. 174,017; Oct. 2; Serial No. 175,379; published June 12, 1923.

Barron-Gray Packing Co., San Jose, Calif. Canned fruit and vegetables and dried fruit. 173,931; Oct. 2; Serial No. 177,818; published July 17, 1923.

Bartels, Reinhard E., doing business as Props Manufacturing Co., Lynn, Mass. Combined arch-supporting and heel-locating shank pieces. 174,142; Oct. 2.

Bassick Company, The, Bridgeport, Conn. Door locks. 173,738; Oct. 2; Serial No. 178,324; published June 12, 1923.

Bay Side Canning Company, Alviso, Calif. Tomato hot sauce, canned vegetables, fruits, and fish. 173,625; Oct. 2; Serial No. 165,339; published July 3, 1923.

Bell, James W., & Co., Chicago, Ill. Monthly magazine. 174,012; Oct. 2; Serial No. 175,594; published June 12, 1923.

Be-Neet Manufacturing Co., Inc., New York, N. Y. Hair nets. 174,087; Oct. 2; Serial No. 180,356; published July 10, 1923.

Berger, Louis, doing business as Manhattan Manufacturing Co., New York, N. Y. Office coats, suits, duck trousers, vests, etc. 174,131; Oct. 2.

Bernhard Ulmann Co. Inc. New York, N. Y. Yarns for knitting, etc. 174,023; Oct. 2; Serial No. 176,376; published June 12, 1923.

Bernhard Ulmann Co. Inc., New York, N. Y. Yarns for knitting, crocheting, and art needlework. 174,089; Oct. 2; Serial No. 180,199; published July 10, 1923.

Berthorn Chemical Co., New York, N. Y. Chemical preparation recommended for relief of acids and gases in stomach and intestines. 174,021; Oct. 2; Serial No. 176,320; published June 19, 1923.

Better Pictures Publishing Co., Chicago, Ill. Monthly periodical. 173,877; Oct. 2; Serial No. 175,912; published June 26, 1923.

Beveridge, Melvin H., doing business as Fever Nox Company, Bayles, Calif. Ointments, influenza medicine, laxative tablets, etc. 173,632; Oct. 2; Serial No. 160,240; published July 3, 1923.

Bevis Rock Salt Co., Kansas City, Mo., and Lyons, Kans. Salt. 173,999–174,001; Oct. 2; Serial Nos. 176,109–11; July 17, 1923.

Bickum, Dorothy, New York, N. Y. Brassières. 173,661; Oct. 2; Serial No. 176,159; published June 26, 1923.

Bickum, Dorothy, New York, N. Y. Brassières. 173,832; Oct. 2; Serial No. 174,999; published June 26, 1923.

Bloch, Léon, New York, N. Y. Handkerchiefs. 174,086; Oct. 2; Serial No. 180,413; published July 10, 1923.

Bloom Sublyme Shoe Co., Inc., New York and Brooklyn, N. Y. Boots, shoes, slippers, and sandals. 173,812; Oct. 2; Serial No. 171,524; published July 3, 1923.

Blue-Ribbon Knitting Mills, Inc., Waltham, Mass. Knitted bathing suits. 173,914; Oct. 2; Serial No. 175,063; published July 10, 1923.

Blum, Isaac, New York, N. Y. Cigarettes. 173,681; Oct. 2; Serial No. 178,213; published July 3, 1923.

Bond, Charles, Company, Philadelphia, Pa. Leather loom sundries. 173,733; Oct. 2; Serial No. 178,588; published June 12, 1923.
Bond, Jessie A., doing business as J. & A. Bond, Hamilton, Ontario, Canada. Salve for the relief of eczema, salt rheum, acne, etc. 174,109; Oct. 2; Serial No. 171,061; published July 10, 1923.
Bonded Products Corporation, New York, N. Y. Soap and soap products. 173,758–9; Oct. 2; Serial Nos. 177,352–3; published June 5, 1923.
Bon-Tober Sporting Goods Co., The, Hartford, Conn. Baseballs and baseball gloves. 173,725; Oct. 2; Serial No. 179,394; published July 3, 1923.
Borgfeldt, George, & Co., New York, N. Y. Hair nets. 173,702; Oct. 2; Serial No. 177,120; published June 19, 1923.
Bouillonized Peanut Company. (See Craven, Horace G.)
Boyakin, Raymond, Salt Lake City, Utah. Auto and furniture cleaner. 173,621; Oct. 2; Serial No. 166,036; published June 26, 1923.
Boye Needle Co., The, Chicago, Ill. Key chains. 174,094; Oct. 2; Serial No. 179,773; published July 3, 1923.
Boykin Machinery & Supply Co., Beaumont, Tex. Oil-well machinery and tools. 173,918; Oct. 2; Serial No. 174,062; published July 3, 1923.
Braadland, John, Ltd. (See Abbott, Hall & Co.)
Britex Chemical Products Limited, London, England. Disinfectants. 174,024; Oct. 2; Serial No. 176,397; published June 19, 1923.
British America Nickel Corp'n Ltd., Ottawa, Ontario, Canada. Nickel sulphate. 174,115; Oct. 2; Serial No. 143,977; published July 3, 1923.
British America Nickel Corp'n Ltd., Ottawa, Ontario, Canada. Nickel ammonium sulphate. 174,116; Oct. 2; Serial No. 143,978; published July 3, 1923.
Brooks Chemical Co., New Cumberland, W. Va. Salve for treating sore throat, croup, asthma, etc. 174,029; Oct. 2; Serial No. 176,599; published June 19, 1923.
Brown, C. C., Candy Co., Los Angeles, Calif. Chocolate candy. 173,839; Oct. 2; Serial No. 169,279; published July 3, 1923.
Brown, J. C., Newark, Ohio. Salad dressings. 173,655; Oct. 2; Serial No. 176,446; published June 26, 1923.
Brown, Michael J., Philadelphia, Pa. Fruit presses. 174,108; Oct. 2; Serial No. 166,498; published July 10, 1923.
Buedy Products Co., Chicago, Ill. Furniture polish. 173,742; Oct. 2; Serial No. 178,217; published June 19, 1923.
Buell, George C., & Co. Inc., Rochester, N. Y. Coffee. 173,949; Oct. 2; Serial No. 178,819; published July 17, 1923.
Buffalo Specialty Company, Buffalo, N. Y. Chemical compositions for removing carbon from internal-combustion engines and the like. 173,630; Oct. 2; Serial No. 161,522; published July 3, 1923.
Burns, Frederick M., Mount Vernon, N. Y. Umbrellas and parasols. 173,707; Oct. 2; Serial No. 177,956; published June 19, 1923.
Burrell, D. V., doing business as The Rocky Ford Melon Growers Spray Manufacturing Co., Rocky Ford, Colo. Insecticide. 174,019; Oct. 2; Serial No. 175,297; published July 3, 1923.
Butterfield, Fred, & Co. Inc., New York, N. Y. Ginghams in the piece. 173,624; Oct. 2; Serial No. 165,343; published July 10, 1923.
Butts, J. F., Co., San Francisco, Calif. Canned fruits and vegetables. 173,923; Oct. 2; Serial No. 178,551; published July 17, 1923.
Calcium Products, Incorporated, Chicago, Ill., assignor to Pepsodent Company, Antiseptic, astringent, and deodorizing lotion. 174,022; Oct. 2; Serial No. 176,322; published June 19, 1923.
Caldwell & Company, Nashville, Tenn. Booklets and bonds. 173,802; Oct. 2; Serial No. 173,562; published June 3, 1923.
Caldwell, W. A., Camino, Calif. Fresh deciduous fruits. 173,840; Oct. 2; Serial No. 169,236; published July 3, 1923.
Calvert, Howard R., Medina, Ohio. Shoe and leather polishes. 173,757; Oct. 2; Serial No. 177,358; published June 5, 1923.
Campfire Manufacturing Company, St. Louis, Mo. Devices for supporting cooking utensils, etc., over an open fire. 174,103; Oct. 2; Serial No. 155,737; published July 3, 1923.
Capitol Chemical Company, Somerville, Mass. Stove polish. 173,623; Oct. 2; Serial No. 162,721; published July 10, 1923.
Carneal, Edwin R., New Orleans, La. Beverage sold as a soft drink. 173,944; Oct. 2; Serial No. 179,354; published July 10, 1923.
Caswell, Bonnie R., Wilmington, Del. Motor saltz. 173,912; Oct. 2; Serial No. 175,298; published July 10, 1923.
Causse Manufacturing & Importing Co., Boundbrook, N. J., and New York, N. Y. Pineapple glacé, glacé assorted fruits, crystallized ginger. 173,762; Oct. 2; Serial No. 177,274; published July 3, 1923.
Chandler & Fisher, Limited, Winnipeg, Canada. Surgical ligatures. 174,140; Oct. 2.
Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, etc., silk fabrics in the piece. 174,126; Oct. 2; Serial No. 180,521; published July 10, 1923.
Chesapeake Weaving Mills, Inc., Havre de Grace, Md., and Philadelphia, Pa. Bathing capes. 173,937; Oct. 2; Serial No. 177,121; published July 17, 1923.
Chicago Mercantile Co., Chicago, Ill. Hat linings for ladies' hats. 173,640; Oct. 2; Serial No. 154,679; published May 8, 1923.
Childs Specialty House, Union City, Tenn. Wearing apparel. 173,911; Oct. 2; Serial No. 175,849; published July 10, 1923.
Chinook Packing Co., Chinook, Wash. Canned salmon. 173,844; Oct. 2; Serial No. 172,975; published July 3, 1923.
Chloro Chemical Corporation, New York, N. Y. Liquid medicaments and ointments for antiseptic uses, etc. 174,073; Oct. 2; Serial No. 178,592; published July 10, 1923.
Church Bulletin, Inc., The, New York, N. Y. Church bulletin. 173,611; Oct. 2; Serial No. 158,178; published June 19, 1923.
Ciepiela, Peter, Fall River, Mass. Hand soap. 173,873; Oct. 2; Serial No. 175,850; published June 5, 1923.
Citrus Growers Cash Association. (See Banks, Llewellyn.)
Cleveland Metal Products Company, The, Cleveland, Ohio. Burner drums. 173,870; Oct. 2; Serial No. 176,951; June 19, 1923.
Cluff, William, Company, Wilmington, Del., and San Francisco, Calif. Laundry soap. 173,872; Oct. 2; Serial No. 175,769; published June 26, 1923.
Cole, William H., & Co., Ltd., Painswick, England. Notions and small wares. 173,596; Oct. 2; Serial No. 167,973; published June 12, 1923.
Colgate & Company, Jersey City, N. J. Soaps. 173,810; Oct. 2; Serial No. 171,451; published June 12, 1923.
Colonial Brass Works, Inc., The, New Britain, Conn. Hand valves for gas, steam, and water. 173,686; Oct. 2; Serial No. 177,651; published June 12, 1923.
Colonial Brass Works, Inc., The, New Britain, Conn. Hand valves for gas, steam, and water. 173,752; Oct. 2; Serial No. 177,652; published June 12, 1923.
Columbia Products Company. (See Thoma, Otto.)
Coney-Cone Company, The. (See Goodwin, Harry L.)
Cooknut Corporation, The, Baltimore, Md. Vegetable lard substitute. 173,774; Oct. 2; Serial No. 175,650; published June 26, 1923.
Corrado & Marranzini, New York, N. Y. Olive oil. 173,626; Oct. 2; Serial No. 164,493; published June 5, 1923.
Corso, Vincent M., doing business as The Hare Manufacturing Company, Hartford, Conn. Hair tonics. 173,900; Oct. 2; Serial No. 176,454; published July 10, 1923.
Cosin, Joseph J., doing business as The Cosin Co., New York, N. Y. Powder puffs. 173,700; Oct. 2; Serial No. 177,167; published June 19, 1923.
Cotera, Francisco, doing business as The Cotera Brothers, El Paso, Tex. Coffee. 173,599; Oct. 2; Serial No. 168,208; published July 3, 1923.
Courtney, William P., doing business as Courtney's Red Top Soda Water Co., Oakland, Calif. Soda water. 173,982; Oct. 2; Serial No. 181,062; published July 10, 1923.
Craig, Stephen, Company, Newport, R. I. Prophylactic ointment. 173,663; Oct. 2; Serial No. 176,001; published June 26, 1923.
Craven, Horace G., doing business as Bouillonized Peanut Company, Philadelphia, Pa. Peanuts prepared with meat extract. 173,643; Oct. 2; Serial No. 158,815; published July 10, 1923.
Crawford, Marion L., Malvern, Ohio. Screen scratcher and rubber for use in making bricks, tiles, etc. 173,920; Oct. 2; Serial No. 173,813; published July 3, 1923.
Crawford, McGregor & Canby Company, The, Dayton, Ohio. Golf clubs. 173,813; Oct. 2; Serial No. 171,623; published July 3, 1923.
Crooker & Morse, Inc., Bridgewater, Mass. Boots and shoes. 173,756; Oct. 2; Serial No. 177,428; published July 10, 1923.
Crystal Chemical Co. Inc., The, New York, N. Y. Powder for nursery and toilet use. 174,068; Oct. 2; Serial No. 178,554; published July 10, 1923.
Cunningham, Joseph A., Philadelphia, Pa. Newspaper cartoon sections. 173,717; Oct. 2; Serial No. 178,959; published June 26, 1923.
Dalton Hosiery Mills, Dalton, Ga. Hosiery. 173,897; Oct. 2; Serial No. 176,720; published July 10, 1923.
David, John, New York, N. Y. Suits, jackets, raincoats, etc. 173,792; Oct. 2; Serial No. 174,894; published July 10, 1923.
Davidson, David, Providence, R. I. Pictures. 174,117; Oct. 2; Serial No. 148,932; published June 19, 1923.
Davol Rubber Company, Providence, R. I. Surgeon's gloves. 173,649; Oct. 2; Serial No. 176,721; published June 26, 1923.
Davy, Mary J. A., New York, N. Y. Fasteners made of ribbon or other material for holding in place lingerie ribbons or straps. 173,635; Oct. 2; Serial No. 172,586; published May 29, 1923.
Dean-Hicks Company, The, Grand Rapids, Mich. Magazines published monthly. 173,727; Oct. 2; Serial No. 179,780; published June 26, 1923.
Dearborn Supply Company, Chicago, Ill. Shampoo preparation. 174,048; Oct. 2; Serial No. 177,656; published July 10, 1923.

Dearborn Supply Company, Chicago, Ill. Toilet preparation. 174,049; Oct. 2; Serial No. 177,657; published July 10, 1923.
De Cameron, Inc., New York, N. Y. Perfumes. 174,145; Oct. 2.
De Cameron, Inc., New York, N. Y. Perfumes. 174,151–2; Oct. 2.
Denney & Co., Yakima, Wash. Fresh apples. 173,616; Oct. 2; Serial No. 166,657; published July 3, 1923.
Dennison Manufacturing Co., Framingham, Mass. Crêpe paper. 173,743; Oct. 2; Serial No. 178,093; published June 19, 1923.
Detroit Packing Co., Detroit, Mich. Bacon. 174,135; Oct. 2.
DeWitt, E. C., & Co., Inc., Chicago, Ill. Preparation for removing corns and calli. 174,074; Oct. 2; Serial No. 178,597; published July 10, 1923.
Diamond Food Products Company. (See Sterrick, Harrison D.)
Diamond Laboratories, Inc., The, Seattle, Wash. Hair dressing. 173,868; Oct. 2; Serial No. 176,791; published June 12, 1923.
Dickey, William E., Seneca Falls, N. Y. Automatic pneumatic water-supply system. 173,925; Oct. 2; Serial No. 178,433; published July 10, 1923.
Dietzgen, Eugene, Co., Chicago, Ill. Ruling, detail ruling, railroad, curve, etc., pens. 173,913; Oct. 2; Serial No. 175,136; published July 3, 1923.
Dilas, Harry, doing business as The Arcadia, Bay City, Mich. Candy. 173,889; Oct. 2; Serial No. 176,731; published July 10, 1923.
Diozone Company. (See Merritt, Hiram.)
Doniger & Company Inc., New York, N. Y. Hypodermic syringes. 173,646; Oct. 2; Serial No. 176,957; published May 8, 1923.
Duarte-Monrovia Fruit Exchange, Duarte, Calif. Fresh citrous fruits. 173,781; Oct. 2; Serial No. 175,853; published June 26, 1923.
Dugan & Hudson Co., Rochester, N. Y. Leather shoes. 174,011; Oct. 2; Serial No. 175,599; published July 10, 1923.
Dunhill, Alfred, of London, Inc., New York, N. Y. Pipes, cigar and cigarette holders, and tobacco pouches. 174,098; Oct. 2; Serial No. 179,263; published July 10, 1923.
Duplan Silk Corporation, New York, N. Y. Silk piece goods. 174,079–82; Oct. 2; Serial Nos. 181,257–60; published July 17, 1923.
Dupuis-Rickman Engraving & Embossing Co., Chicago, Ill. Greeting cards. 173,613; Oct. 2; Serial No. 157,560; published June 12, 1923.
Durard Desk Mfg. Co., Los Angeles, Calif. Desks. 173,603; Oct. 2; Serial No. 166,736; published June 12, 1923.
Duryea Manufacturing Company, Bayonne, N. J. Belt dressing. 173,800; Oct. 2; Serial No. 173,742; published June 12, 1923.
Eagle Carburetor Company, The, Cleveland, Ohio. Carburetors and structural parts and fittings therefor. 174,060; Oct. 2; Serial No. 178,434; published July 3, 1923.
Eagle Skirt Company, New York, N. Y. Women's bloomers, pantalets, and petticoats. 173,836; Oct. 2; Serial No. 171,490; published June 26, 1923.
Eberhard Faber Pencil Company, Brooklyn, N. Y. Lead pencils. 173,745; Oct. 2; Serial No. 177,835; published June 19, 1923.
Elgot and Giuntini, New York, N. Y. Maltless soda-fountain sirups for soft drinks. 173,667; Oct. 2; Serial No. 177,659; published July 3, 1923.
Ellis, John S., doing business as Shirland Knitting Mills, Philadelphia, Pa. Knitted coats, jackets, and sweaters. 173,830; Oct. 2; Serial No. 175,076; published June 26, 1923.
Elmer Candy Co., Inc., New Orleans, La. Candy. 173,861; Oct. 2; Serial No. 175,077; published July 3, 1923.
Elmer Candy Co., Inc., New Orleans, La. Candy. 173,867; Oct. 2; Serial No. 175,229; published July 3, 1923.
Ely & Walker Dry Goods Company, doing business as Lincoln Knit Goods Mills, St. Louis, Mo. Sweaters. 173,697; Oct. 2; Serial No. 177,284; published June 19, 1923.
Escondido Citrus Union, Escondido, Calif. Fresh oranges and lemons. 173,789; Oct. 2; Serial No. 177,360; published July 3, 1923.
Euclid Candy Co., The, Cleveland, Ohio. Candy. 17,782; Oct. 2; Serial No. 176,171; published July 3, 1923.
Excella Pattern Company, New York, N. Y. Periodicals. 173,668; Oct. 2; Serial No. 177,661; published June 19, 1923.
Excella Pattern Company, New York, N. Y. Dress patterns. 173,751; Oct. 2; Serial No. 177,660; published June 19, 1923.
Fairbank, N. K., Company, The, New York, N. Y. Common soap. 173,671; Oct. 2; Serial No. 177,905; published June 5, 1923.
Fantea Company, The, Brooklyn, N. Y. Tea. 173,926; Oct. 2; Serial No. 178,335; published July 17, 1923.
Farbwerke vorm. Meister Lucius & Bruning, Hochst-on-the-Main, Germany. Preparations for treatment of fever, polyarthritis, etc. 173,862; Oct. 2; Serial No. 175,078; published July 3, 1923.
Farfaglia, Joseph, & Co., Canastota, N. Y. Cigars and smoking tobacco. 173,954; Oct. 2; Serial No. 176,611; published July 10, 1923.
Fay Hosiery Mills, Inc., Philadelphia, Pa. Hosiery. 173,820; Oct. 2; Serial No. 171,989; published June 26, 1923.
Feeser, A. W., doing business as A. W. Feeser & Co., Westminster, Silver Run, and Taneytown, Md. Canned vegetables. 173,850; Oct. 2; Serial No. 174,615; published July 3, 1923.
Feldman, Leo H., New York City. Package outfit. 173,917; Oct. 2; Serial No. 174,517; published July 10, 1923.
Fellsway Rubber Co., Boston, Mass. Rubber pads for use in the textile and other industries. 173,739; Oct. 2; Serial No. 178,337; published June 12, 1923.
Fessenden Shirt Co., Inc., The, Kingston, N. Y. Men's dress and negligee shirts. 173,961; Oct. 2; Serial No. 171,491; published July 17, 1923.
Fever Nox Company. (See Beveridge, Melvin H.)
Fiction House, Inc., New York and Long Island City, N. Y. Magazines, books, and stories. 173,120; Oct. 2; Serial No. 155,304; published May 29, 1923.
First Texas Chemical Manufacturing Company, Dallas, Tex. Preparation for the treatment of all kinds of chronic bronchitis, phthisis, etc. 174,045; Oct. 2; Serial No. 177,598; published July 10, 1923.
Flanders, A. H., Company, Chicago, Ill. Women's wearing apparel. 173,976; Oct. 2; Serial No. 172,269; published July 17, 1923.
Flash Chemical Company, Cambridge, Mass. Toilet soap. 173,884; Oct. 2; Serial No. 176,334; published June 12, 1923.
Florabelle Dressmakers, Inc., New York, N. Y. Outer skirts. 173,960; Oct. 2; Serial No. 171,310; published July 17, 1923.
Florida Products Company, Inc., New York, N. Y. Maltless carbonated beverages sold as soft drinks. 174,054; Oct. 2; Serial No. 178,032; published July 3, 1923.
Flynn, Anna D., Beach Bluff, Mass. Candy. 173,985; Oct. 2; Serial No. 178,601; published July 17, 1923.
Foamite-Childs Corporation, Utica, N. Y. Fire-extinguishing apparatus. 174,078; Oct. 2; Serial No. 178,884; published July 3, 1923.
Forquer, Bernard B., doing business as Movie Stars Laboratories, Joliet, Ill. Facial cream and rouge, toilet water, shampoo preparation, etc. 173,966; Oct. 2; Serial No. 159,862; published July 17, 1923.
Forster, Thomas E., doing business as T. E. Forster & Co., Neosho, Mo. Cleaning preparation for bathtubs, sinks, porcelain, marble, etc. 174,099; Oct. 2; Serial No. 134,467; published June 12, 1923.
Foster, Robert V. (See Reish, George L., assignor.)
Foster, Samuel M., Company, Fort Wayne, Ind. Dresses and waists. 173,685; Oct. 2; Serial No. 178,600; published July 10, 1923.
Fowler & Slater Co., The, Cleveland, Ohio. Photographic prints. 173,682; Oct. 2; Serial No. 178,380; published July 3, 1923.
Franklin-Caro Company, Inc., Richmond, Va. Chewing gum. 173,620; Oct. 2; Serial No. 101,984; published July 3, 1923.
Freund, Henry, Houston, Tex. Power whistles. 173,696; Oct. 2; Serial No. 177,289; published June 19, 1923.
Fritz Radiator Cement Co., Rhineland, Mo. Product to be used in stopping leaks in cooling systems of automobiles, etc. 174,050; Oct. 2; Serial No. 177,663; published July 10, 1923.
Fromm, Frank H., doing business as F. H. Fromm & Company, Philadelphia, Pa. Canned fish. 173,823; Oct. 2; Serial No. 172,329; published May 15, 1923.
Futrell, Cicero F., Conway, N. C. Preparation for the treatment of piles. 174,066; Oct. 2; Serial No. 178,500; published July 10, 1923.
Garley Steel Company. (See Hird, Roy G.)
Gaspari, Laura, New York, N. Y. Deodorants. 173,825; Oct. 2; Serial No. 175,483; published June 26, 1923.
Gazzoni, A., & C., Il Gerente, Bologna, Italy. Radioactive reconstituent. 174,009; Oct. 2; Serial No. 173,385; published July 17, 1923.
Geib & Schaefer Co., Chicago, Ill. Musical-instrument cases. 174,141; Oct. 2.
Gerson & Breyer, San Francisco, Calif. Hosiery. 173,660; Oct. 2; Serial No. 176,174; published June 19, 1923.
Getz, Vernon C., doing business as The Wonderlay Company, Indianapolis, Ind. Antiseptic drink for chicks. 173,894; Oct. 2; Serial No. 177,292; published July 10, 1923.
Giard, Philip, Shoe Company, Inc., The, Brockton, Mass. Boots and shoes. 173,846; Oct. 2; Serial No. 173,886; published June 12, 1923.
Gibson, Geo. R., Co., New York, N. Y. Toothbrushes. 173,956; Oct. 2; Serial No. 165,791; published July 10, 1923.
Gillen, P. Joseph, doing business as Mentho-Kreosmo Company, Clinton, Ill. Medicinal preparation for pneumonia, flu, colds, etc. 173,893; Oct. 2; Serial No. 177,294; published July 10, 1923.
Gillet & Fils, Villeurbanne, France. Apparatus for permitting the matching of color shades. 173,711; Oct. 2; Serial No. 177,181; published June 26, 1923.

Gimbel Brothers, Inc., New York, N. Y. Table glassware. 174,090; Oct. 2; Serial No. 180,063; published July 10, 1923.

Giocalas, Th., & V. Coylmzoglu, New York, N. Y. Dates. 173,849; Oct. 2; Serial No. 174,438; published July 3, 1923.

Gladding Dry Goods Co., Providence, R. I. Bookcases, beds, book-ends, buffets, benches, desks, etc. 173,607; Oct. 2; Serial No. 158,829; published May 29, 1923.

Goodwin, Harry L., doing business as The Coney Cone Company, assignor to C. G. Rowan, Kansas City, Mo. Ice-cream cones. 173,618; Oct. 2; Serial No. 165,258; published July 3, 1923.

Goodyear Rubber Company, Middletown, Conn. Rubber boots and shoes and arctic overshoes. 173,885; Oct. 2; Serial No. 176,337; published July 10, 1923.

Graham Chemical Company, Greensboro, N. C. Liquid disinfectant. 174,150; Oct. 2.

Graham, Robt. J., Cashmere, Wash. Fresh boxed apples. 173,963; Oct. 2; Serial No. 171,536; published July 17, 1923.

Gray, Arbaces H., doing business as A. B. Gray Company, Sullivan, Ind. Prepared mustard, vinegar, tomato catchup, coffee, etc. 173,933; Oct. 2; Serial No. 177,485; published July 17, 1923.

Greenwald, Friedman & Co., Inc., New York, N. Y. Tailor-made dresses. 173,690; Oct. 2; Serial No. 177,184; published June 19, 1923.

Grosser, Walter C., doing business as Grosser Mfg. Co., Cleveland, Ohio. Faucets, cocks, etc. 173,972; Oct. 2; Serial No. 172,592; published July 10, 1923.

H. & H. Products Company. (See Horner, Mary B.)

H. & S. Products Co., Millville, N. J. Waterproof and antiseptic preparation for the treatment of cuts, cracks, and abrasions of the skin. 174,043; Oct. 2; Serial No. 177,487; published July 10, 1923.

Hagerstown Table Works. (See Miller, Francis H.)

Hall, A. G., doing business as Hall Rod Works, Highland Mills, N. Y. Fishing lines, rods, snelled hooks, and leaders. 173,729; Oct. 2; Serial No. 180,065; published July 3, 1923.

Hare Manufacturing Company. (See Corso, Vincent M.)

Harris, William E., Asheville, N. C. Cleaning and polishing combination for leather goods. 173,882; Oct. 2; Serial No. 176,180; published July 3, 1923.

Hartman, Arthur, New York, N. Y. Shirts. 173,874; Oct. 2; Serial No. 175,867; published July 10, 1923.

Hartman, Arthur, New York, N. Y. Shirts. 173,909; Oct. 2; Serial No. 175,868; published July 10, 1923.

Hartman, Arthur, New York, N. Y. Shirts. 173,910; Oct. 2; Serial No. 175,866; published July 10, 1923.

Hasty, M. A., Richmond, Ind. Candy. 173,856; Oct. 2; Serial No. 175,492; published July 3, 1923.

Hawley Knitting Mills, Inc., New York, N. Y. Knitted outer garments. 173,822; Oct. 2; Serial No. 172,221; published July 10, 1923.

Heidbrink Company, The, Minneapolis, Minn. Medicinal preparation to relieve pain. 173,704; Oct. 2; Serial No. 176,908; published June 26, 1923.

Heidner & Grinnell, Inc., Tacoma, Wash. Toothbrushes, hairbrushes, and nail brushes. 173,706; Oct. 2; Serial No. 178,247; published June 26, 1923.

Heller, B., & Company, Chicago, Ill. Metal polish. 173,815; Oct. 2; Serial No. 171,757; published May 29, 1923.

Heller, B., & Company, Chicago, Ill. Combined coloring and flavoring. 174,006; Oct. 2; Serial No. 174,304; published July 17, 1923.

Heller, B., & Company, Chicago, Ill. Insecticide for killing moths and carpet beetles. 174,010; Oct. 2; Serial No. 174,301; published July 17, 1923.

Heller, B., and Company, Chicago, Ill. Pastry preparation. 174,138; Oct. 2.

Herndon, Marvin, Washington, D. C. Remedy for indigestion and dyspepsia. 173,610; Oct. 2; Serial No. 158,312; published July 11, 1922.

Hikecut Company. (See Van Der Vygh, Frans.)

Hillerich & Bradsby Co., Inc., Louisville, Ky. Baseball bats. 173,941; Oct. 2; Serial No. 180,432; published July 10, 1923.

Hillerich & Bradsby Co., Inc., Louisville, Ky. Baseball bats. 173,943; Oct. 2; Serial No. 180,431; published July 10, 1923.

Hillerich & Bradsby Co., Inc., Louisville, Ky. Baseball bats. 173,983-4; Oct. 2; Serial Nos. 180,434-4; published July 10, 1923.

Hillig, Frederick W., doing business as F. W. Hillig Co., New York, N. Y. Tablecloths, napkins, scarfs, etc. 173,967; Oct. 2; Serial No. 161,549; published July 17, 1923.

Hillig, Frederick W., doing business as F. W. Hillig Co., New York, N. Y. Bed coverings, sheetings, pillowcases, bedspreads, tickings. 173,968; Oct. 2; Serial No. 161,550; published July 17, 1923.

Hird, Roy G., doing business as Garley Steel Company, Chicago, Ill. Steel sheets, bars, plates, and blue annealed. 173,904; Oct. 2; Serial No. 176,127; published July 3, 1923.

Hoey, John, & Co., San Francisco, Calif. Mattresses. 173,766; Oct. 2; Serial No. 177,084; published May 29, 1923.

Hoffman Candy Co., Cleveland, Ohio. Candy bar. 173,942; Oct. 2; Serial No. 178,343; published July 17, 1923.

Hoffman, Herman B., New York, N. Y. Women's undergarments. 173,864; Oct. 2; Serial No. 175,195; published July 10, 1923.

Hoffman, Mrs. Nellie F., Brookings, S. Dak. Medicine for the treatment of hog cholera. 174,067; Oct. 2; Serial No. 178,504; published July 10, 1923.

Holbrook, W. H., Company, Boston, Mass. All-wool textile piece goods. 173,689; Oct. 2; Serial No. 177,489; published June 19, 1923.

Holland Canning Company, Holland, Mich. Canned fruits and vegetables. 173,841; Oct. 2; Serial No. 171,917; published July 3, 1923.

Hollbach, John, Company, Paterson, N. J. Woven mesh fabrics. 174,030; Oct. 2; Serial No. 176,628; published June 12, 1923.

Horner, Mary B., doing business as H. & H. Products Company, Atlanta, Ga. Shampoo cream. 173,986; Oct. 2; Serial No. 178,613; published July 17, 1923.

Houbigant, Inc., New York, N. Y. Perfume, toilet water, face, talcum, and sachet powders, face cream, etc. 174,038; Oct. 2; Serial No. 177,379; published July 10, 1923.

Houtain, Elsie D., Brooklyn, N. Y. Magazine published monthly. 173,728; Oct. 2; Serial No. 179,809; published June 26, 1923.

Howard Hose and Garter Mfg. Co., Los Angeles, Calif. Hosiery and garters. 174,013; Oct. 2; Serial No. 175,557; published July 10, 1923.

Hudson, J. L., Company, The, Detroit, Mich. Shoes made of leather fabric, and combinations thereof. 173,637; Oct. 2; Serial No. 167,917; published June 12, 1923.

Hudson, J. L., Co., The, Detroit, Mich. Men's and young men's outer clothing—viz, suits. 173,979; Oct. 2; Serial No. 171,846; published July 17, 1923.

Hudson Motor Specialties Company, Philadelphia and Frankford, Pa. Transmission or crank casing parts. 174,104; Oct. 2; Serial No. 158,677; published July 3, 1923.

Human Hand Cake Beater Co. (See Swope, John A., jr.)

Hursh, Wm. T., & Conn, Mansfield, Ohio. Vegetable compound and system blood purifier. 173,903; Oct. 2; Serial No. 176,185; published July 10, 1923.

Huyler's, New York, N. Y. Candy. 173,971; Oct. 2; Serial No. 171,172; published July 17, 1923.

Hyman Pickle Co., The, Louisville, Ky. Pickles, catchup, sauerkraut, etc. 174,149; Oct. 2.

Ide, Geo. P., & Co., Inc., Troy, N. Y. Collars for shirts. 173,919; Oct. 2; Serial No. 174,012; published July 10, 1923.

Indianapolis Abattoir Company, Indianapolis, Ind. Hams, shoulders, bacon, sausage, etc. 173,790; Oct. 2; Serial No. 177,380; published July 3, 1923.

Inecto Incorporation, New York, N. Y. Face cream. 173,908; Oct. 2; Serial No. 175,990; published July 10, 1923.

International Chemical Company of America, Wilmington, Del., and Washington, D. C. Insecticide spray. 173,895; Oct. 2; Serial No. 177,129; published June 26, 1923.

International Corset Company, Aurora, Ill. Corsets, brassières, and combination corsets and brassières. 173,834; Oct. 2; Serial No. 174,785; published June 26, 1923.

Interstate Corset Company, New York, N. Y. Corsets and brassières. 173,648; Oct. 2; Serial No. 176,739; published June 26, 1923.

Isaacson, Carl A., Copas, Minn. Coffee. 174,130; Oct. 2.

Italian Macaroni Production Co. (See Molinelli, Charles.)

Jaediker, Henry W., New York, N. Y. Ladies' hats. 173,761; Oct. 2; Serial No. 177,300; published July 3, 1923.

James, John, & Sons Limited, Redditch, England. Needles for hand sewing. 173,677; Oct. 2; Serial No. 178,105; published July 3, 1923.

Johns, William T., doing business as Texas Chemical & Specialty Co., Fort Worth, Tex. Insecticide and deodorant. 173,807; Oct. 2; Serial No. 174,902; published July 10, 1923.

Johnson-Locke Mercantile Co., The, San Francisco, Calif. Canned and dried fruits and vegetables. 173,638; Oct. 2; Serial No. 168,314; published July 3, 1923.

Johnson, Young Hamilton, Parma, Idaho. Potatoes and head lettuce. 173,978; Oct. 2; Serial No. 171,849; published July 17, 1923.

Johnston, Robert A. Company, Milwaukee, Wis. Candies. 174,136; Oct. 2.

Jo-Lo Rug Cleaning Mfg. Co. (See Swayne, Joseph J.)

Joseph Bros., doing business as United Kimono Co., New York, N. Y. Kimonos, bath robes, petticoats, etc. 174,016; Oct. 2; Serial No. 175,398; published July 10, 1923.

Judkins, W. V., & Son, Boston, Mass. Silk ribbons in the piece. 173,750; Oct. 2; Serial No. 177,672; published June 26, 1923.

Juilliard, A. D., & Co., Inc., New York, N. Y. Cotton duck and canvas piece goods. 173,749; Oct. 2; Serial No. 177,673; published June 26, 1923.

Juvenile Shoe Corporation of America, The, Carthage, Mo. Boots and shoes. 173,835; Oct. 2; Serial No. 170,199; published June 26, 1923.

Juvenile Shoe Corporation of America, The, Carthage, Mo. Boots and shoes. 173,837; Oct. 2; Serial No. 170,196; published June 26, 1923.

Juvenile Shoe Corporation of America, The, Carthage, Mo. Boots and shoes. 174,110; Oct. 2; Serial No. 170,198; published June 26, 1923.

Kalasign Company of America. (See Merchants Publishing Company.)

Karlin, Hyman, doing business as H. Karlin Co., New York, N. Y. Olive oil. 173,784; Oct. 2; Serial No. 176,550; published July 3, 1923.

Kaufman-Clifford, Inc., Chicago, Ill. Magazines published monthly. 173,804; Oct. 2; Serial No. 173,331; published June 26, 1923.

Keane Provision Co., Washington, D. C. Sausage and sausage meats. 173,853; Oct. 2; Serial No. 175,085; published July 3, 1923.

Kennard, Victor P., Greenland, N. H. Jellies. 173,860; Oct. 2; Serial No. 176,130; published July 3, 1923.

Kent, Michael W., doing business as Kent Company, Kansas City, Mo. Dentifrice. 173,988; Oct. 2; Serial No. 178,724; published July 17, 1923.

Kerr Turbine Co., Wellsville, N. Y. Turbines and reduction gears. 173,928; Oct. 2; Serial No. 177,978; published July 10, 1923.

Keystone Fruit Products Company, Cincinnati, Ohio. Preserved fruit. 173,945; Oct. 2; Serial No. 177,607; published July 17, 1923.

King, Frank O., Chicago, Ill. Toy dogs. 173,698; Oct. 2; Serial No. 177,229; published June 19, 1923.

Kirschner, M., & Sons, New York, N. Y. Cloaks, suits, dresses. 174,058; Oct. 2; Serial No. 178,346; published July 10, 1923.

Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. 173,710; Oct. 2; Serial No. 179,104; published July 3, 1923.

Klug, William, Brooklyn, N. Y. Ice-cream preparation. 173,851; Oct. 2; Serial No. 174,696; published July 3, 1923.

Knothe Brothers Co., Inc., New York, N. Y. Pyjamas, dress, and negligee shirts, nightshirts, and men's robes. 173,809; Oct. 2; Serial No. 171,422; published July 3, 1923.

Kraft Chemical Company, Oklahoma, Okla. Shoe polish containing a dye. 173,801; Oct. 2; Serial No. 173,651; published June 12, 1923.

L & W Mfg. Company, Vincennes, Ind. Medicine for the treatment of ingrowing toenails. 174,040; Oct. 2; Serial No. 177,445; published July 10, 1923.

Laboratorio Chimico Farmaceutico Moderno Di Granelli Candiani & C., Turin, Italy. Magnesia used for pharmaceutical purposes. 173,779; Oct. 2; Serial No. 175,794; published June 26, 1923.

Laboratorio Chimico Farmaceutico V. Baldacci. (See Baldacci, Valentino.)

Lanman & Kemp, Inc., New York, N. Y. Bowel regulator. 173,665; Oct. 2; Serial No. 175,874; published June 26, 1923.

Lazier, J. F., Mfg. Co., St. Louis, Mo. Nonalcoholic maltless soft drinks. 173,989; Oct. 2; Serial No. 178,745; published July 17, 1923.

Lee, Jackson D., Wyncote, Pa. Powders and tablets to aid digestion and relieve neuralgia and headaches, etc. 173,833; Oct. 2; Serial No. 174,789; published June 26, 1923.

Levring and Company, Incorporated, St. Louis, Mo. Cheese and butter color. 174,061; Oct. 2; Serial No. 178,449; published July 10, 1923.

Lewis, James H., doing business as Lewis Economics Co., Not Inc., Chicago, Ill. Vegetable and mineral compound for neutralizing lactic acids in whipping cream and eggs. 173,855; Oct. 2; Serial No. 175,253; published July 3, 1923.

Liebmann's, S., Sons, Inc., Brooklyn, N. Y. Malt beverage. 173,952; Oct. 2; Serial No. 175,360; published July 10, 1923.

Lilly, Eli, and Company, The, now by change of name Eli Lilly & Company, Indianapolis, Ind. Soap. 173,605; Oct. 2; Serial No. 166,459; published June 26, 1923.

Lilly, Eli, & Company, Indianapolis, Ind. Medicinal ointment. 173,653; Oct. 2; Serial No. 176,559; published June 19, 1923.

Lilly, Eli, and Company, The, now by change of name Eli Lilly & Company, Indianapolis, Ind. Liquid medicinal preparation containing quinine. 174,144; Oct. 2.

Lincoln Knit Goods Mills. (See Ely & Walker Dry Goods Company.)

Lindsay Co-Operative Citrus Association, Lindsay, Calif. Fresh citrous fruits. 173,826; Oct. 2; Serial No. 175,610 published June 26, 1923.

Link, Anton, Chicago, Ill. Combination mop and duster. 173,691; Oct. 2; Serial No. 177,395; published June 19, 1923.

Lionel Corporation, The, New York, N. Y. Electrical toys. 173,957; Oct. 2; Serial No. 163,099; published July 10, 1923.

Listerated Gum Corporation, New York, N. Y. Chewing gum. 173,683; Oct. 2; Serial No. 178,390; published July 10, 1923.

Little, George, Limited, Manchester, England. Bacon, hams, and lard. 173,670; Oct. 2; Serial No. 177,839; published July 10, 1923.

Lord & Taylor, New York, N. Y. Shoes. 173,940; Oct. 2; Serial No. 176,486; published July 17, 1923.

Lorraine Manufacturing Company, Pawtucket, R. I. Cotton goods in the piece. 173,734; Oct. 2; Serial No. 178,749; published June 12, 1923.

Lowney, Walter M., Company, Boston, Mass. Candy. 173,786; Oct. 2; Serial No. 177,235; published July 3, 1923.

Lubbers and Bell Manufacturing Company, Clinton, Iowa. Game. 173,735; Oct. 2; Serial No. 178,753; published June 19, 1923.

Luxite Laboratories, Kansas City, Mo. Pictures printed from camera negatives. 173,755; Oct. 2; Serial No. 177,497; published June 12, 1923.

McDonagh, Wm., & Sons, New York, N. Y. Toilet articles—viz, tooth paste. 173,775; Oct. 2; Serial No. 175,669; published June 26, 1923.

McGovern & McGovern, Seattle, Wash. Canned salmon. 173,771; Oct. 2; Serial No. 176,904; published July 10, 1923.

McKesson & Robbins Inc., New York, N. Y. Brushes. 173,932; Oct. 2; Serial No. 177,502; published July 17, 1923.

Macpherson, John C., doing business as Macpherson's Bakery, La Grande, Oreg. Bread. 174,134; Oct. 2.

Maffitt, Ellen W., doing business as University Pickle Company, St. Louis, Mo. Pickles. 173,808; Oct. 2; Serial No. 171,371; published May 15, 1923.

Majestic Shoe Company, New York, N. Y. Shoes. 173,998; Oct. 2; Serial No. 176,412; published July 17, 1923.

Manchester Handle & Turning Company. (See Shurtz, Thomas M.)

Manhattan Manufacturing Co. (See Berger, Louis.)

Margueritte Laboratories. (See Murphy, Margaret C.)

Martha Maid Manufacturing Company, Incorporated, Chicago, Ill. Children's dresses. 174,059; Oct. 2; Serial No. 178,367; published July 10, 1923.

Mason, Robert L., doing business as Anchor Sales Service, Waterloo, Iowa. Trading certificates. 173,803; Oct. 2; Serial No. 173,518; published May 29, 1923.

Master Rule Mfg. Co. Inc., New York, N. Y. Rules, folding rules, extension rules. 173,939; Oct. 2; Serial No. 177,044; published July 10, 1923.

Matthews, Jas. H., & Company, Pittsburgh, Pa. Forged bodies for hand stamps, fullered forgings, and I forgings. 173,746; Oct. 2; Serial No. 177,792; published published June 12, 1923.

Mathews, William H., doing business as The Mathews Medical Company, San Francisco, Calif. Medical tonic for use in the treatment of anæmia, debility, stomach derangements, etc. 174,041; Oct. 2; Serial No. 177,447; published July 10, 1923.

Matthews, Jas. H., & Company, Pittsburgh, Pa. Steel marking dies. 174,053; Oct. 2; Serial No. 177,791; published July 3, 1923.

Mayol, Frank E., Salt Lake City, Utah. Ice cream and frozen dainties. 173,622; Oct. 2; Serial No. 165,697; published July 3, 1923.

Medoc Distributing Company, New York, N. Y. Pharmaceutical preparations. 173,980; Oct. 2; Serial No. 143,773; published July 17, 1923.

Mentho Kreoamo Company. (See Gillen, P. Joseph.)

Merchants Publishing Company, doing business as Kalasign Company of America, Kalamazoo, Mich. Advertising cards and placards. 173,600; Oct. 2; Serial No. 167,529; published June 26, 1923.

Mercier Bros., The, Concord, N. H. Candied pop corn. 173,854; Oct. 2; Serial No. 175,150; published July 3, 1923.

Merck & Co., New York, N. Y. Saporific. 173,892; Oct. 2; Serial No. 177,312; published July 10, 1923.

Merritt, George W., Company, Inc., Norfolk, Va. Floral antiseptic hair tonic. 174,033; Oct. 2; Serial No. 176,748; published June 19, 1923.

Merritt, George W., Company, Inc., Norfolk, Va. Antiseptic hair grower. 174,034; Oct. 2; Serial No. 176,749; published June 19, 1923.

Merritt, Hiram, doing business as Diozone Company, Newburgh, N. Y. Paste for cleaning false teeth. 173,678; Oct. 2; Serial No. 178,182; published July 3, 1923.

Metz, H. A., & Co., Inc., New York, N. Y. Dyestuffs. 174,069; Oct. 2; Serial No. 178,563; published July 10, 1923.

Michael, John C., Company., Chicago, Ill. Wash dresses and aprons. 173,760; Oct. 2; Serial No. 177,313; published July 10, 1923.

Miller, Francis H., doing business as Hagerstown Table Works, Hagerstown, Md. Household and office furniture. 173,885; Oct. 2; Serial No. 175,203; published May 29, 1923.

Miller & Paine, Inc., Lincoln, Nebr. Candies and candied fruits. 173,890; Oct. 2; Serial No. 176,750; published July 3, 1923.

Miller, Jerome L., doing business as J. L. Miller Knitting Mill, Hazleton, Pa. Ladies' cotton knit underwear. 173,942; Oct. 2; Serial No. 179,946; published July 17, 1923.

Miller's Jacob, Sons Co., Philadelphia, Pa. Knitted and textile-fabric undergarments. 173,821; Oct. 2; Serial No. 172,004; published July 3, 1923.

Milton Manufacturing Company, The, Milton, Pa. Bolts, rivets, and spikes. 173,705; Oct. 2; Serial No. 177,190; published June 12, 1923.

Mme. Irène, New York, N. Y. Corsets. 173,838; Oct. 2; Serial No. 169,361; published Apr. 24, 1923.

Molinelli, Charles, doing business as Italian Macaroni Prouction Co., Rockaway Beach, N. Y. Pot roast, spaghetti, potted beef, tripe stew, etc. 173,782 Oct. 2; Serial No. 176,354; published July 3, 1923.

Morisse Lace & Embroidery Co., St. Louis, Mo. Braids, tassels, passementeries, and garnitures. 173,672; Oct. 2; Serial No. 177,983; published July 3, 1923.

Morisse Lace & Embroidery Co., St. Louis, Mo. Braids, tassels, passementeries, and garnitures. 173,673; Oct. 2; Serial No. 177,984; published July 3, 1923.

Mouquin Restaurant and Wine Company, Limited, The, New York, N. Y. Olive oil, canned fruits and vegetables. 174,031; Oct. 2; Serial No. 176,687; published June 19, 1923.

Mouquin Rt. & Wine Co. Inc., New York, N. Y. Beverages sold as a soft drink. 173,797; Oct. 2; Serial No. 174,405; published July 3, 1923.

Murphy, Margaret C., doing business as Marguerittte Laboratories, Evanston, Ill. Cold and day creams, face powder, rouges, etc. 173,970; Oct. 2; Serial No. 168,426; published July 17, 1923.

Muskegon Motor Specialties Company, Muskegon, Mich. Motor pistons. 173,747; Oct. 2; Serial No. 177,749; published June 12, 1923.

N. Kjaergaard Jensens Tekn. Kem. Fabrik, Copenhagen, Denmark. Rennet, junket tablets, and lactic ferment. 174,118; Oct. 2; Serial No. 154,654; published July 3, 1923.

National Candy Company, doing business as Peckham Candy Factory, St. Louis, Mo., assignor to National Confectioners Association of the United States, Chicago, Ill. Candy. 173,977; Oct. 2; Serial No. 172,549; published July 17, 1923.

National Confectioners Association of the United States. (See National Candy Company, assignor.)

National Food Corporation. (See Sterrick, Harrison D.)

National Record Exchange Company, Iowa City, Iowa. Phonograph-record cabinets. 173,606; Oct. 2; Serial No. 159,717; published June 19, 1923.

National Shirt Shops, Inc., New York, N. Y. Men's suits, coats, trousers, etc. 173,764; Oct. 2; Serial No. 177,194; published July 10, 1923.

Naumkeag Steam Cotton Co., Salem, Mass. Pillowcases. 174,100–1; Oct. 2; Serial Nos. 145,957–8; published July 10, 1923.

Nelson-Kirkwood, Laura, trustee of the estate of W. R. Nelson, deceased, Kansas City, Mo. Newspapers. 173,601; Oct. 2; Serial No. 167,361; published June 12, 1923.

Neuburger & Company, New York, N. Y. Gingham piece goods. 173,723; Oct. 2; Serial No. 179,314; published July 10, 1923.

Never-Stretch Mattress Company, Philadelphia, Pa. Mattresses. 173,871; Oct. 2; Serial No. 175,616; published May 29, 1923.

Newell, Carroll D., New York, N. Y. Yarn. 174,039; Oct. 2; Serial No. 177,420; published July 17, 1923.

New England Confectionery Company, Boston, Mass. Candy. 174,119; Oct. 2; Serial No. 154,810; published July 3, 1923.

Newman, Marcus & Torchia, Cincinnati, Ohio. Frocks. 173,684; Oct. 2; Serial No. 178,455; published July 10, 1923.

Newman, Sigmund, doing business as S. Newman & Company, New York, N. Y. Name of a magazine or publication specializing on subjects pertaining to radio, telegraphy, and telephony. 173,724; Oct. 2; Serial No. 179,380; published June 2, 1923.

Niagara Alkali Company, Niagara Falls, N. Y. Flake lye used as detergent. 173,595; Oct. 2; Serial No. 169,917; published June 26, 1923.

Niagara Shoe Company, Inc., Buffalo, N. Y. Shoes of leather, rubber, and fabric. 174,113; Oct. 2; Serial No. 171,029; published July 3, 1923.

Nicholson, Lloyd E., New York, N. Y. Hosiery. 176,657; Oct. 2; Serial No. 176,275; published June 19, 1923.

Nickel Fabricating Corp., Philipsburg, Pa. Frying pans, saucepans, stock pots, kettles, etc. 173,916; Oct. 2; Serial No. 174,908; published July 3, 1923.

North Star Chemical Works, Inc., Lawrence, Mass. Leather preservatives. 174,121; Oct. 2; Serial No. 155,630; published June 5, 1923.

Northwestern Bell Telephone Company, Des Moines, Iowa, and Omaha, Nebr. Monthly periodical. 173,721; Oct. 2; Serial No. 179,218; published June 26, 1923.

Novack, Harry J., doing business as Colloidal Laboratories, Philadelphia, Pa. Liquid iodine preparation. 174,075; Oct. 2; Serial No. 178,626; published July 10, 1923.

Old Colony Manufacturing Corporation, Taunton, Mass. Cotton yarns. 174,088; Oct. 2; Serial No. 180,237; published July 10, 1923.

Oliver Knitting Company, Philadelphia, Pa. Hosiery. 173,641; Oct. 2; Serial No. 152,443; published Mar. 28, 1923.

Omak Fruit Growers, Omak, Wash. Fresh apples. 174,148; Oct. 2.

Orange Crush Company, Chicago, Ill. Beverages and compounds and concentrates for making the same. 174,146; Oct. 2.

Oregon Brass Works, Portland, Oreg. Journal bearings. 174,057; Oct. 2; Serial No. 178,273; published July 10, 1923.

Oregon Growers Cooperative Association, Salem, Oreg. Canned fruits and vegetables. 173,615; Oct. 2; Serial No. 167,411; published July 3, 1923.

Oregon Growers Cooperative Association, Salem, Oreg. Canned fruits and vegetables. 173,636; Oct. 2; Serial No. 167,412; published July 3, 1923.

Oregon Growers Cooperative Association, Salem, Oreg. Canned fruits. 173,852; Oct. 2; Serial No. 174,851; published July 3, 1923.

Organ-Iron Medicine Company, Omaha, Nebr. Medicine used in cases of stomach, liver, and bladder trouble, etc. 174,062; Oct. 2; Serial No. 178,459; published July 10, 1923.

Organ-Iron Medicine Company, Omaha, Nebr. Medicine used in cases of rheumatism, sciatica, etc. 174,063; Oct. 2; Serial No. 178,460; published July 10, 1923.

Organ-Iron Medicine Company, Omaha, Nebr. Medicine used in cases of kidney and bladder troubles, etc. 174,064; Oct. 2; Serial No. 178,461; published July 10, 1923.

Oriental Notions Company, New York, N. Y. Hair nets. 173,896; Oct. 2; Serial No. 177,019; published June 26, 1923.

Pacific Mills, Lawrence and Boston, Mass. Yarns. 174,028; Oct. 2; Serial No. 176,499; published June 19, 1923.

Pacific Novelty Company, New York, N. Y. Combs and barrettes. 173,772; Oct. 2; Serial No. 176,851; published May 29, 1923.

Palisade Manufacturing Company, The, Yonkers, N. Y. Soap. 173,886; Oct. 2; Serial No. 170,357; published July 10, 1923.

Parfumerie Roger et Gallet, Paris, France. Soaps, soap pastes, and soap powders. 173,796; Oct. 2; Serial No. 174,589; published June 26, 1923.

Parfumerie Roger & Gallet, Paris, France. Soaps, soap pastes, and soap powders. 173,817; Oct. 2; Serial No. 171,867; published June 12, 1923.

Parker-Bridget Company, Washington, D. C. Boys' suits. 173,811; Oct. 2; Serial No. 171,508; published July 10, 1923.

Pastene, P., & Co., Inc., Boston, Mass. Canned peeled tomatoes and tomato sauce. 173,741; Oct. 2; Serial No. 178,278; published June 19, 1923.

Peckham Candy Factory. (See National Candy Company.)

Pendle & Rivett Limited, London, England. Cloth and stuffs of wool and worsted. 174,127; Oct. 2; Serial No. 180,549; published July 10, 1923.

Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Women's hair nets. 174,125; Oct. 2; Serial No. 180,491; published July 10, 1923.

Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Lye. 173,905–6; Oct. 2; Serial Nos. 176,096–7; published July 10, 1923.

Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Lye. 173,907; Oct. 2; Serial No. 176,095; published July 10, 1923.

Pennsylvania Soap Company of Lancaster, Pa. Lancaster, Pa. Soaps. 173,883; Oct. 2; Serial No. 176,277; published June 12, 1923.

Pepsodent Company. (See Calcium Products, Incorporated, assignor.)

Perceval, C., New York, N. Y. Olive oil. 173,770; Oct. 2; Serial No. 176,913; published July 3, 1923.

Perceval, C., New York, N. Y. Canned okra. 173,785; Oct. 2; Serial No. 177,047; published July 3, 1923.

Perfection Biscuit Company, Ft. Wayne, Ind. Biscuits. 173,818; Oct. 2; Serial No. 171,950; published Mar. 20, 1923.

Peterkin Company, The, Baltimore, Md. Candies. 174,007; Oct. 2; Serial No. 174,485; published July 17, 1923.

Peters, M. C., Mill Co., Omaha, Nebr. Poultry and stock feeds. 174,133; Oct. 2.

Phelps, Phoebe, Caramel Co., Boston, Mass. Caramels. 173,787; Oct. 2; Serial No. 177,243; published July 3, 1923.

Philadelphia Quartz Company, Philadelphia, Pa. Publications and printed literature. 173,608; Oct. 2; Serial No. 158,728; published July 3, 1923.

Phillips, Leo F., & Co., New York, N. Y. Beads and bead trimmings. 173,623; Oct. 2; Serial No. 165,599; published July 3, 1923.

Pictogram Company, The. (See Talman, Charles F.)

Planters Nut & Chocolate Company, Wilkes-Barre, Pa. Candy. 173,887; Oct. 2; Serial No. 176,568; published July 3, 1923.

Pleasant Grove Canning Company, Pleasant Grove, Utah. Fresh deciduous and citrous fruits, fresh vegetables, etc. 173,842; Oct. 2; Serial No. 171,951; published July 3, 1923.

Pollak Bros. Company, The, Fort Wayne, Ind. Dresses and waists. 173,866; Oct. 2; Serial No. 175,211; published July 10, 1923.

Polygon Products Co., Boston, Mass. Preparation for cleaning fabric, leather, and woodwork, etc. 173,754; Oct. 2; Serial No. 177,515; published July 3, 1923.

Pom Chemical Co. Inc., The, Lebanon, Pa. Renovating, cleaning, and metal-polishing preparations. 173,969; Oct. 2; Serial No. 168,124; published May 15, 1923.

Powers, Friend & Lichtman, New York, N. Y. Fringes and art needlework. 173,726; Oct. 2; Serial No. 179,426; published July 3, 1923.

Pratt & Whitney Company, New York, N. Y. Caliper gauges. 174,107; Oct. 2; Serial No. 164,452; published July 3, 1923.

President Suspender Company, Shirley, Mass. Garters. 173,602; Oct. 2; Serial No. 166,787; published July 3, 1923.

Primrose Draperies, Inc., New York, N. Y. Bedspreads. 174,124; Oct. 2; Serial No. 180,493; published July 10, 1923.

Prince Macaroni Mfg. Co., Boston, Mass. Sauce, a combination of mushrooms, tomatoes, chicken, and tomato paste. 173,780; Oct. 2; Serial No. 175,808; published June 26, 1923.

Progressive Farmer Co., The, Raleigh, N. C., and Birmingham, Ala. Weekly magazine. 173,888; Oct. 2; Serial No. 176,569; published June 19, 1923.

Props Manufacturing Co. (See Bartels, Reinhard E.)

Pyrnid Products Corporation, Newark, N. J. Mouth-wash preparation. 174,025; Oct. 2; Serial No. 176,428; published June 19, 1923.

Queen City Bottling Company, The, Cincinnati, Ohio. Nonintoxicating fruit beverage and sirup used in preparation of same. 173,609; Oct. 2; Serial No. 158,333; published July 25, 1922.

R. & H. E. Co. (See Schliplin, William.)

R. & R. Underwear, New York, N. Y. Brassières. 173,975; Oct. 2; Serial No. 172,013; published July 17, 1923.

Radio Motion Picture Phon. Corp., Fall River, Mass., and Long Island City, N. Y. Educational appliances embracing cabinets within which are disposed radioreceivers, motion-picture projectors, etc. 173,927; Oct. 2; Serial No. 178,282; published July 10, 1923.

Rampo Ajax Corporation, New York, N. Y. Track switches, switch stands, switch plates, and parts thereof. 173,737; Oct. 2; Serial No. 178,357; published June 12, 1923.

Randles, Charles D., doing business as Randles Mfg. Company, Ogdensburg, N. Y. Uniforms—namely, dresses, aprons, caps, bibs, etc. 173,974; Oct. 2; Serial No. 158,895; published July 17, 1923.

Rash, Warren P., Co., Inc., Middlesboro, Ky. Preparation for neuralgia and headache. 174,046; Oct. 2; Serial No. 177,621; published July 10, 1923.

Rawlings Manufacturing Co., St. Louis, Mo. Baseballs, ball-players' gloves and mits. 173,740; Oct. 2; Serial No. 178,283; published June 19, 1923.

Ray-Maling Co., Inc., Portland, Oreg. Canned fruits. 173,857; Oct. 2; Serial No. 175,809; published July 3, 1923.

Ray-Maling Co., Inc., Portland, Oreg. Canned fruits, berries, and vegetables. 173,858; Oct. 2; Serial No. 175,810; published July 3, 1923.

Ray-Maling Co., Inc., Portland, Oreg. Canned fruits and berries. 173,859; Oct. 2; Serial No. 175,812; published July 3, 1923.

Reed, Ernest A., New York, N. Y. Yarns. 174,095; Oct. 2; Serial No. 179,623; published July 10, 1923.

Reed, Wm., Engineering Company, Louisville, Ky. Oily liquid for impregnating the filling mass of air filters. 173,828; Oct. 2; Serial No. 175,371; published June 26, 1923.

Reese Chemical Company, The, Cleveland, Ohio. Remedy for headache and neuralgia. 174,114; Oct. 2; Serial No. 139,754; published Nov. 8, 1921.

Reiff, Ronald A., Pottstown, Pa. Ladies' knitted underwear. 173,659; Oct. 2; Serial No. 176,216; published June 19, 1923.

Reinhertz, Max I., doing business as Reinherts Mfg. Co., San Francisco, Calif. Men's pants. 173,843; Oct. 2; Serial No. 171,957; published June 12, 1923.

Reish, George L., assignor to R. V. Foster, Mifflinburg, Pa. Leather preservative. 174,018; Oct. 2; Serial No. 175,324; published July 3, 1923.

Relenvalen, D., Cleveland, Ohio. Advertising literature. 174,122; Oct. 2; Serial No. 156,860; published June 12, 1923.

Reliance Manufacturing Company, Chicago, Ill. Men's work shirts. 173,794; Oct. 2; Serial No. 174,753; published July 10, 1923.

Remilier Co., The, New York, N. Y. Face and hand lotion. 174,065; Oct. 2; Serial No. 178,472; published July 10, 1923.

Rex Knitting Co., Little Falls, N. Y. Sweaters and sweater coats. 173,651; Oct. 2; Serial No. 176,570; published June 19, 1923.

Rex Window Advertising Co., Inc., New York, N. Y. Paper and cardboard signs, displays, and billboard sheets. 173,768; Oct. 2; Serial No. 177,051; published June 12, 1923.

Rheinauer-Roth Knitting Mills, Inc., New York, N. Y. Knitted piece goods of wool, worsted, etc. 173,748; Oct. 2; Serial No. 177,693; published June 26, 1923.

Richards, Joseph, Company, Inc., New York, N. Y. Printed books and their component parts. 174,015; Oct. 2; Serial No. 175,407; published June 26, 1923.

Richardson-Marsh Corporation, The, Orlando, Fla. Fresh citrous fruits. 173,950; Oct. 2; Serial No. 178,867; published July 17, 1923.

Rite Form Corset Co. Inc., The, New York, N. Y. Corset steels. 173,863; Oct. 2; Serial No. 175,107; published June 12, 1923.

Roanoke Mills Company, Roanoke Rapids, N. C. Woven cotton fabrics, including cotton flannels. 174,003; Oct. 2; Serial No. 175,439; published July 17, 1923.

Robertson Leather Company, New York, N. Y. Leathers. 173,695; Oct. 2; Serial No. 177,329; published June 19, 1923.

Rockwood Manufacturing Company, The, Indianapolis, Ind. Power-transmission pulleys. 174,153; Oct. 2.

Rocky Ford Melon Growers Spray Manufacturing Co., The. (See Burrell, D. V.)

Roe, William G., Winterhaven, Fla. Fresh citrous fruits. 173,710; Oct. 2; Serial No. 177,410; published July 3, 1923.

Rome Importing Co., New York, N. Y. Olive oil. 173,776; Oct. 2; Serial No. 175,680; published June 26, 1923.

Ross Company, New York, N. Y. Rouge. 174,035; Oct. 2; Serial No. 176,763; published June 19, 1923.

Rowan, C. G. (See Goodwin, Harry L., assignor.)

Rugclenso Mfg. Co., Topeka, Kans. Rug-cleaning compound. 173,631; Oct. 2; Serial No. 160,778; published May 29, 1923.

Ryerson, Joseph T., & Son, Chicago, Ill. Cone-driven and geared-head engine lathes, turret lathes, etc. 173,703; Oct. 2; Serial No. 177,023; published June 19, 1923.

Sachs Bros. and Jalkut, New York, N. Y. Infants' wear. 173,650; Oct. 2; Serial No. 176,655; published June 26, 1923.

Sadler, Robt. J., Shoe Co. Incorporated, New York, N. Y. Shoes. 174,006; Oct. 2; Serial No. 174,978; published July 17, 1923.

Salmon Falls Manufacturing Company, Boston, Mass. Tire fabrics in the piece. 174,097; Oct. 2; Serial No. 179,323; published July 17, 1923.

Salon Viennese, New York, N. Y. Facial oil and ointment. 174,070; Oct. 2; Serial No. 178,570; published July 10, 1923.

Sanderson's Tintine Co., Lincoln, Nebr. Shoe-shining preparation having dyeing properties. 173,763; Oct. 2; Serial No. 177,245; published June 26, 1923.

Sandvikens Jernverks Aktiebolag, Sandviken, Sweden. Saws, hammers, sledges, etc. 174,071; Oct. 2; Serial No. 178,571; published July 3, 1923.

Sandvikens Jernverks Aktiebolag, Sandviken, Sweden. Saws, hammers, sledges, etc. 174,077; Oct. 2; Serial No. 178,872; published July 3, 1923.

Sanford, Chamberlain & Albers Company, Knoxville, Tenn. Salicylic acid, sulphate quinine, domestic ammonia, sirup of squills, etc. 173,827; Oct. 2; Serial No. 175,408; published June 26, 1923.

San-I-Sal Laborntories, Inc., Washington, D. C. Preparation for the prevention of excessive perspiration. 174,044; Oct. 2; Serial No. 177,519; published July 10, 1923.

Sauquoit Toilet Paper Co., Inc., New Hartford, N. Y. Toilet paper and paper towels. 173,662; Oct. 2; Serial No. 176,048; published June 26, 1923.

Schaffner Brothers Company, Erie, Pa. Sausage, boiled ham, etc. 173,614; Oct. 2; Serial No. 169,931; published July 3, 1923.

Schenk, Sylvester J., Avon Lake, Ohio. Fresh eggs. 174,137; Oct. 2.

Schliplin, William, doing business as R. & H. E. Co., Seattle, Wash. Roach-destroying composition. 174,051; Oct. 2; Serial No. 177,697; published July 10, 1923.

Schoiderer & Aug, Inc., New York, N. Y. Men's and young men's suits and overcoats. 173,791; Oct. 2; Serial No. 174,979; published July 10, 1923.

Schrader's, A., Son, Incorporated, Brooklyn, N. Y. Pneumatic valves, valve casings, insides, etc. 173,962; Oct. 2; Serial No. 171,512; published July 10, 1923.

Schultz & Hirsch Co., Chicago, Ill. Box springs, mattresses, and pillows. 173,878; Oct. 2; Serial No. 175,950; published May 29, 1923.

Schwarge, Carl A., doing business as Sindol Co., Woodhaven, N. Y. Face powders and cream, perfumes, toilet waters, etc. 174,076; Oct. 2; Serial No. 178,676; published July 10, 1923.

Schwartz, David, Company, Inc., New York, N. Y. Cotton goods in the piece. 174,128; Oct. 2; Serial No. 180,558; published July 10, 1923.

Scribner's, Charles, Sons, New York, N. Y. Monthly publication. 173,713; Oct. 2; Serial No. 178,631; published June 26, 1923.

Selberling Rubber Company, Akron, Ohio. Soles and heels for boots and shoes. 173,619; Oct. 2; Serial No. 164,564; published June 12, 1923.

Seidenberg, R. J., Co., Buffalo, N. Y. Cigars. 173,674; Oct. 2; Serial No. 178,003; published July 3, 1923.

Sethness Company, Chicago, Ill. Chocolate malted concentrate for the making of a food drink. 173,847; Oct. 2; Serial No. 174,265; published July 3, 1923.

Sethness Company, Chicago, Ill. Beverage sold as a soft drink and sirups for making same. 173,953; Oct. 2; Serial No. 175,681; published July 10, 1923.

Shapleigh Hardware Company, St. Louis, Mo. Baby baths, coffee and rice boilers, bowls, etc. 174,106; Oct. 2; Serial No. 162,358; published July 3, 1923.

Shaw, Frederick G., Brooklyn, N. Y. Cream to be applied to the skin as an insect repellent. 173,899; Oct. 2; Serial No. 176,505; published July 10, 1923.

Sheffer, Max B., Card Co., Chicago, Ill. Sets of pictures. 173,634; Oct. 2; Serial No. 172,404; published May 29, 1923.

Shirland Knitting Mills. (See Ellis, John S.)

Shoninger-Heinshelmer Manufacturing Co., Chicago, Ill. Juniors' and misses' cloaks, capes, and suits. 173,819; Oct. 2; Serial No. 171,964; published July 3, 1923.

Shurtz, Thomas M., doing business as Manchester Handle & Turning Company, Manchester, Mich. Baseball bats. 173,690; Oct. 2; Serial No. 177,458; published June 19, 1923.
Shute, Bruce T., Sacramento, Calif. Fresh deciduous fruits. 173,880; Oct. 2; Serial No. 176,221; published July 3, 1923.
Simplicity Sales Company, Seattle, Wash. Loose-leaf books of accounting and packages of pages therefor. 173,744; Oct. 2; Serial No. 178,068; published June 19, 1923.
Sindol Co. (See Schwarze, Carl A.)
Skratch Manufacturing Co., Los Angeles, Calif. Ointment for itching scalp, itching eczema, seven-year itch, etc. 173,778; Oct. 2; Serial No. 175,744; published June 26, 1923.
Sloman, Ernest G., San Francisco, Calif. Card game. 173,936; Oct. 2; Serial No. 177,143; published July 17, 1923.
Snow Cloud Ammonia Company, Boston, Mass. Ammonia. 173,777; Oct. 2; Serial No. 175,683; published June 26, 1923.
Société Rodier, Paris, France. Piece goods of silk, cotton, and wool and mixtures. 174,084; Oct. 2; Serial No. 180,506; published July 10, 1923.
Société Rodier, Paris, France. Piece goods of silk, cotton, and wool and mixtures. 174,085; Oct. 2; Serial No. 180,504; published July 10, 1923.
Stafford, George A., doing business as G. A. Stafford & Co., New York, N. Y. Woven cotton fabrics in the piece. 173,981; Oct. 2; Serial No. 135,737; published July 17, 1923.
Stanard, O. L., Dry Goods Co., Huntington, W. Va. Hair nets. 174,096; Oct. 2; Serial No. 179,491; published July 10, 1923.
Standard Crayon Manufacturing Company, doing business as Anti-Itis Company, Danvers, Mass. Medicinal preparation for inflammatory, congested, and painful conditions where local treatment is indicated. 173,824; Oct. 2; Serial No. 175,627; published June 26, 1923.
Standard Drug Company, Los Angeles, Calif. Preparation used in the treatment of general debility, lost vitality, etc. 174,037; Oct. 2; Serial No. 176,290; published June 19, 1923.
Standard Oil Company, San Francisco, Calif. Harness and sole-leather oil. 173,597–8; Oct. 2; Serial No. 167,833–4; published June 5, 1923.
Standard Oil Company of New York, New York, N. Y. Floor oilers, yarn mops, dust cloths, etc. 173,688; Oct. 2; Serial No. 177,576; published June 19, 1923.
Standard Syrup Company, St. Louis, Mo. Fruit preserves, honey, and mincemeat. 173,666; Oct. 2; Serial No. 177,631; published July 3, 1923.
Standard Tent & Awning Company, The, doing business as The Standard Garment Company, Toledo, Ohio. Men's working pants, overalls, jumpers, etc. 173,915; Oct. 2; Serial No. 174,943; published July 10, 1923.
Standard Ultramarine Co., The, Huntington, W. Va. Laundry blue. 174,032; Oct. 2; Serial No. 176,699; published June 19, 1923.
Standard Ultramarine Co., The, Huntington, W. Va. Ultramarine blue. 174,111; Oct. 2; Serial No. 170,907; published Mar. 20, 1923.
Star Fish & Oyster Co., The, Mobile, Ala. Sea food. 173,799; Oct. 2; Serial No. 174,156; published July 3, 1923.
Staset Company, The. (See Warner, Selden G.)
Steel Products Company, The, Cleveland, Ohio. Poppet valves for internal-combustion engines. 174,055–6; Oct. 2; Serial Nos. 178,069–70; published July 3, 1923.
Steele, Jesse A., doing business as Steele Bros., Oakland, Calif. Artificially-prepared mineral water. 173,901; Oct. 2; Serial No. 176,292; published July 3, 1923.
Stephens-Bradley Company, Lindale, Ga. Kidney and bladder pills. 174,042; Oct. 2; Serial No. 177,462; published July 10, 1923.
Stern, Merritt Co., Inc., New York, N. Y. Neckties. 173,875–6; Oct. 2; Serial Nos. 175,893–4; published July 10, 1923.
Sterrick, Harrison D., doing business as Diamond Food Products Company and National Food Corporation, Pittsburgh, Pa. Combination of malt extracts for beverage purposes. 173,959; Oct. 2; Serial No. 154,939; published July 10, 1923.
Stevens, J., Arms Company, New York, N. Y. Shotguns. 173,958; Oct. 2; Serial No. 159,189; published July 17, 1923.
Stolz Bros-Davis Company Incorporated, Syracuse, N. Y. Cough mixture. 173,962; Oct. 2; Serial No. 176,227; published July 10, 1923.
Stone, W. C., Emmett, Idaho. Fresh prunes. 173,617; Oct. 2; Serial No. 166,020; published July 3, 1923.
Storgaard, Henry, doing business as Aut-O-Luk Card Co., Yakima, Wash. Card game. 173,714; Oct. 2; Serial No. 178,699; published July 3, 1923.
Strouck, S., & Company, Inc., New York, N. Y. Pile fabric in the piece. 174,026; Oct. 2; Serial No. 176,434; published June 19, 1923.
Sugar Loaf Beverage Co., The, Winona, Minn. Beverage sold as a soft drink. 173,633; Oct. 2; Serial No. 108,728; published Feb. 8, 1921.
Sunset Fruit Co., Lodi, Calif. Fresh grapes. 173,639; Oct. 2; Serial No. 168,387; published July 3, 1923.
Surpass Chemical Co. Inc., Albany, N. Y. Chemical preparation for bleaching material. 173,829; Oct. 2; Serial No. 175,170; published June 26, 1923.
Swayne, Joseph J., doing business as Jo-Lo Rug Cleaning Mfg. Co., Philadelphia, Pa. Compound for cleaning rugs. 173,879; Oct. 2; Serial No. 175,970; published July 10, 1923.
Swope, John A., jr., doing business as Human Hand Cake Beater Co., Union Deposit, Pa. Cake beaters and mixers. 173,934; Oct. 2; Serial No. 177,333; published July 17, 1923.
Taiyo Trading Co., Inc., New York, N. Y. Canned crab meat. 173,891; Oct. 2; Serial No. 176,769; published July 3, 1923.
Talman, Charles F., doing business as The Pictogram Company, Washington, D. C. Informational picture books. 173,767; Oct. 2; Serial No. 177,035; published June 19, 1923.
Taneyhill, Joseph O., New York, N. Y. Crystallized and preserved ginger, chutney, honey, etc. 173,793; Oct. 2; Serial No. 174,757; published July 10, 1923.
Tanner & Poindexter, Atlanta, Ga. Medicinal tablets. 174,004; Oct. 2; Serial No. 175,276; published July 17, 1923.
Tauber, Lipton & Company, Inc., New York, N. Y. Shirts, pyjamas, and nightshirts. 173,921; Oct. 2; Serial No. 173,612; published July 10, 1923.
Taunton Electro-Chemical Company, Taunton, Mass. Soap. 174,020; Oct. 2; Serial No. 175,277; published July 3, 1923.
Taylor, Sterling P., doing business as Taylor Drug Company, Mineral Wells, Tex. Liquid dandruff remover. 174,072; Oct. 2; Serial No. 178,575; published July 10, 1923.
Tebbetts and Garland Store, The, Chicago, Ill. Aluminum teapots. 173,964; Oct. 2; Serial No. 171,599; published July 10, 1923.
Tebbetts and Garland Store, The, Chicago, Ill. Aluminum percolators. 173,965; Oct. 2; Serial No. 171,600; published July 10, 1923.
Texas Chemical & Specialty Co. (See Johns, William T.)
Thoma, Otto, doing business as Columbia Products Company, St. Louis, Mo. Malt extract. 173,951; Oct. 2; Serial No. 179,241; published July 10, 1923.
Thompson, Joseph, Sioux City, Iowa. Hair dressing. 173,694; Oct. 2; Serial No. 177,334; published June 12, 1923.
Tilton & Keeler, Inc., New York, N. Y. Silk and cotton crêpe in the piece. 173,701; Oct. 2; Serial No. 177,149; published June 19, 1923.
Trabulsi, Phillip, doing business as Trabulsi Knit Fabric Co., New York, N. Y. Knitted cravats. 173,712; Oct. 2; Serial No. 177,151; published June 26, 1923.
Tree Lovers Association of America, Aurora, Ill. Monthly periodical. 173,718; Oct. 2; Serial No. 179,015; published June 26, 1923.
Tribune Company, The, Chicago, Ill. Newspaper and newspaper supplements. 173,669; Oct. 2; Serial No. 177,707; published May 29, 1923.
Triple S Service Corporation, Denver, Colo. Granular or powdered antiseptic cleanser for the toilet. 173,798; Oct. 2; Serial No. 174,370; published July 3, 1923.
Trojan Middy Co., Inc., Troy, N. Y. Middies, smocks, and children's dresses. 173,652. Oct. 2; Serial No. 176,582; published June 19, 1923.
Tump, Paul, Milwaukee, Wis. Cleaning powder. 173,795; Oct. 2; Serial No. 174,644; published May 29, 1923.
Turner & Seymour Manufacturing Co., The, Torrington, Conn. Egg beaters. 173,922; Oct. 2; Serial No. 178,580; published July 10, 1923.
Unchokeable Pump, Limited, London, England. Pumps. 173,935; Oct. 2; Serial No. 177,252; published July 10, 1923.
Union Hosiery Company. (See Wallach, David.)
United Fig & Date Co., The, Chicago, Ill. Nuts and nut products. 173,612; Oct. 2; Serial No. 157,701; published July 3, 1923.
United Hosiery Mills Corporation, Chattanooga, Tenn. Hosiery. 173,869; Oct. 2; Serial No. 176,861; published June 19, 1923.
United Kimono Co. (See Joseph Bros.)
United States Overall Manufacturing Company, The, Cincinnati, Ohio. Convertible coats. 173,664; Oct. 2; Serial No. 175,972; published June 19, 1923.
Universal Feature & Specialty Company, Chicago, Ill. Dolls and puzzle games. 173,692; Oct. 2; Serial No. 177,344; published June 19, 1923.
University Pickle Company. (See Mafitt, Ellen W.)
Uswald, Harry, Brooklyn, N. Y. Fur coats, wraps, capes, and neck pieces. 173,973; Oct. 2; Serial No. 155,576; published July 17, 1923.
Vanderbilt, R. T., Company, Inc., New York, N. Y. Chemical compound used as an accelerator in the manufacture of rubber products to hasten the curing of rubber. 173,773; Oct. 2; Serial No. 175,631; published June 26, 1923.
Van Der Vygh, Frans, doing business as Hikecut Company, New York, N. Y. Pocket tool knives. 173,788; Oct. 2; Serial No. 176,343; published June 26, 1923.
Vary Knit Co., Inc., Union Hill, N. J., and New York, N. Y. Knitted wool and cotton goods in the piece. 174,093; Oct. 2; Serial No. 179,836; published July 3, 1923.
Venus Packing Co. (See Abbott, Hall & Co.)

Victori, Joseph, & Co. Inc., New York, N. Y. Food products. 174,147; Oct. 2.
Vita-Sulphur Company, Chicago, Ill. Medicinal preparation for rheumatism, neuritis, sciatica, gout, etc. 174,047; Oct. 2; Serial No. 177,639; published July 10, 1923.
Walker Bros. Co., assignor to Za-Rex Food Products Inc., Boston, Mass. Sirups and extracts for flavoring foods. 173,845; Oct. 2; Serial No. 173,261; published July 3, 1923.
Wallach, David, doing business as Union Hosiery Company, New York, N. Y. Hosiery. 174,036; Oct. 2; Serial No. 176,772; published June 19, 1923.
Warmbirds, Inc., New York, N. Y. Woolens and worsteds in the piece. 173,730; Oct. 2; Serial No. 180,312; published July 10, 1923.
Warner-Patterson Company, Chicago, Ill. Glass for headlights. 174,139; Oct. 2.
Warner, Selden G., doing business as The Staset Company, West Orange, N. J. Diamond tools, diamond engraving and marking tools and drills. 174,154; Oct. 2.
Wasmuth-Endicott Company, Andrews, Ind. Kitchen cabinets. 173,816; Oct. 2; Serial No. 171,774; published June 12, 1923.
Waymart Knitting Mill, Waymart, Pa. Sweater coats. 173,679; Oct. 2; Serial No. 178,199; published July 10, 1923.
Wedrick, William R., Silver Lake, Ind. Onions. 173,946; Oct. 2; Serial No. 177,941; published July 17, 1923.
Weingarten Bros., New York, N. Y. Corsets. 173,805; Oct. 2; Serial No. 173,061; published July 3, 1923.
Welbilt Auto-Body Co., Los Angeles, Calif. Vehicles, particularly automobile bodies. 173,693; Oct. 2; Serial No. 177,338; published June 19, 1923.
West Coast Kalsomine Company, Berkeley, Calif. Calcimine. 174,143; Oct. 2.
West Electric Hair Curler Company, Philadelphia, Pa. hair curlers. 173,731; Oct. 2; Serial No. 180,313; published July 3, 1923.
Whitlock Cordage Co., Jersey City, N. J., and New York, N. Y. Manila rope. 173,647; Oct. 2; Serial No. 176,773; published June 26, 1923.
Wildes, Alice S., doing business as Alys, New York, N. Y. Cigarettes. 173,627; Oct. 2; Serial No. 164,210; published June 27, 1922.
Wilkin & Adler, Inc., New York, N. Y. Ladies' coats and suits. 173,654; Oct. 2; Serial No. 176,519; published June 19, 1923.
Williams Bros. Aircraft Corporation, San Francisco, Calif. Motor-vehicle accelerator. 173,687; Oct. 2; Serial No. 177,579; published June 12, 1923.
Willson Goggles, Inc., Reading, Pa. Lenses for goggles and protection glasses. 174,105; Oct. 2; Serial No. 160,734; published July 4, 1922.
Wilton Manufacturing Company, Inc., New York, N. Y. Cotton piece goods. 174,091; Oct. 2; Serial No. 180,038; published July 3, 1923.
Winarick, Arthur, New York, N. Y. Face powders, face creams, perfumes, etc. 174,052; Oct. 2; Serial No. 177,720; published July 10, 1923.
Wiseman, Carl M., Louisville, Ky. Finger ring and magnifying glasses. 173,898; Oct. 2; Serial No. 176,520; published July 3, 1923.
Witmark, M., & Sons, New York, N. Y. Sheet music. 173,720; Oct. 2; Serial No. 179,122; published June 26, 1923.
Wonderlay Company, The. (See Getz, Vernon C.)
Worumbo Manufacturing Company, Bath, Me. Woolen goods in the piece. 173,732; Oct. 2; Serial No. 180,351; published July 10, 1923.
Wyman, Partridge & Co., Minneapolis, Minn. Underwear. 173,656; Oct. 2; Serial No. 176,307; published June 19, 1923.
Wyman, Partridge & Co., Minneapolis, Minn. Hosiery. 173,658; Oct. 2; Serial No. 176,306; published June 19, 1923.
Yellow Cab Manufacturing Co., Chicago, Ill. Monthly periodical. 173,676; Oct. 2; Serial No. 178,082; published June 12, 1923.
Za-Rex Food Products Inc. (See Walker Bros. Co., assignor.)
Zigelman, M., St. Louis, Mo. Malt sirup. 173,947; Oct. 2; Serial No. 178,083; published July 10, 1923.
Zipp Manufacturing Company, The, Cleveland, Ohio. Nonalcoholic, maltless compound for making beverages and the beverages made therefrom. 174,123; Oct. 2; Serial No. 132,673; published June 21, 1921.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Anderson, C. Richard, Northfield, Minn. Hillcrest Honey. For Extracted-Honey Containers. 26,437; Oct. 2.
Beck, C. M., Company, San Francisco, Calif. Dr. Beck's Lasses Dreams. For Molasses Candy. 26,438; Oct. 2.
Bluebird Pharmacal Co., Cambridge (Boston 40), Mass. Bluebirds For Happiness. For Liver Pills. 26,439; Oct. 2.
Bramu Packing Co., Chicago, Ill. Granola. For Corn Oil. 26,440; Oct. 2.
Bruno, C., & Son, Inc., New York, N. Y. Treasure Chest (Spanish Scenes). For Phonograph Records. 26,441; Oct. 2.
Bruno, C., & Son, Inc., New York, N. Y. Treasure Chest. For Phonograph Records. 26,442; Oct. 2.
Bunte Brothers, Chicago, Ill. Bunte Licorice Tips. For Candy. 26,443; Oct. 2.
Clawson & Wilson Company, Buffalo, N. Y. Big Mike Suspenders. For Men's Suspenders. 26,444; Oct. 2.
Crawford-Rooney-Soderlund, Minneapolis, Minn. The Kristo Board. For a Child's Drawing Board. 26,445; Oct. 2.
Dorr, C., Kansas City, Mo. Dorr's Vim Cleaning Compound. For a Cleaning Compound. 26,446; Oct. 2.
Earl Fruit Co. of the Northwest, San Francisco, Calif. Drake Brand. For Apples. 26,447; Oct. 2.
Ingram, Mrs. Edgar W., Peoria, Ill. Youthtone. For a Cosmetic. 26,448; Oct. 2.
International Salt Company, Inc., New York, N. Y., and Scranton, Pa. Salt. For Salt. 26,449; Oct. 2.
Klar, Adolph, New York, N. Y. Fashionable. For Hair Nets. 26,450; Oct. 2.
Klar, Adolph, New York, N. Y. Viennette. For Hair Nets. 26,451; Oct. 2.
Kronberger's Laboratories, Boston, Mass. Arabello Bitters. For a Medicinal Preparation—Namely, an Appetizing and Digestive Tonic. 26,452; Oct. 2.
Lee, W. E., & Co., Inc., Plant City, Fla. Pretty Baby. For Canned Citrous Fruits. 26,454; Oct. 2.
Logee, E. L., Company, Providence, R. I. Emblems of Distinction. For Emblems and Badges. 26,455; Oct. 2.
Mahnken, George, Washington, Pa. World Over. For Stogies. 26,456; Oct. 2.
Menasha Printing and Carton Company, Menasha, Wis. Model. For Ice Cream. 26,457; Oct. 2.
Milwaukee Paper Box Company, Milwaukee, Wis. Edgemonte. For Boxes Containing Assorted Chocolates. 26,458; Oct. 2.
Milwaukee Paper Box Company, Milwaukee, Wis. Sans Crème. For Boxes Containing Chocolates. 26,459; Oct. 2.
Newark Paraffine & Parchment Paper Co., Newark, N. J.; Columbus, Ohio, and New York, N. Y. Maid-O-Wheat. For Bread. 26,461; Oct. 2.
New York Merchandise Company, New York, N. Y. Victor Rust Proof Spring Snap Fastener. For Snap Fasteners. 26,460; Oct. 2.
Odex Products Company, Chicago, Ill. Odex. For a Foot Medicine for treating the feet. 26,462; Oct. 2.
Robinson Syrup Co. Inc., Cairo, Ga. Robin Brand. For Pure Ribbon Cane Sirup. 26,463; Oct. 2.
S. & M. Lamp Co., Inc., Los Angeles, Calif. S & M Spot-Lite. For Electric Spotlights. 26,453; Oct. 2.
Scott Manufacturing Company, Chicago, Ill. Bilt-E-Z The Boy Builder. For Toy Building Blocks. 26,464; Oct. 2.
The Sweet Clover Dairy Co., Wooster, Ohio. Sweet Clover Creamery Butter. For Creamery Butter. 26,466; Oct. 2.
U. S. Stewart & Bro., Baltimore, Md. Cedar Creek Crab Meat. For Crab Meat. 26,465; Oct. 2.
White, Joseph R., Greenridge, N. Y. J. R. White's Emerald Soft Soap. For Soft Soap. 26,467; Oct. 2.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Brown-Band & Brown, Chicago, Ill. Pyorrhea-Applying Pyro-Pack Cream. For a Medicinal Cream for Treating Teeth. 6,905; Oct. 2.

Copeland, Wilbur F., New York N. Y. Saint Bernards. For a Frankfurter Inclosed and Baked Inside of a Biscuit or Roll. 6,906; Oct. 2.

Forham Company, New York, N. Y. Only One in five is safe. For a Preparation for the Teeth. 6,907; Oct. 2.

Genesee Pure Food Company, The, Le Roy, N. Y. The Big Brother Package. For Jell-O. 6,908; Oct. 2.

Genesee Pure Food Company, The, Le Roy, N. Y. The Luncheon Party. For Jell-O. 6,909; Oct. 2.

Genesee Pure Food Company, The, Le Roy, N. Y. The Children's Grocery Store. For Jell-O. 6,910; Oct. 2.

Genesee Pure Food Company, The, Le Roy, N. Y. The Maid. For Jell-O. 6,911; Oct. 2.

Genesee Pure Food Company, The, Le Roy, N. Y. Cherry Whip. For Jell-O. 6,912; Oct. 2.

Genesee Pure Food Company, The, Le Roy, N. Y. Polly Put the Kettle On. For Jell-O. 6,913; Oct. 2.

Genesee Pure Food Company, The, Le Roy, N. Y. Pineapple Bavarian Cream. For Jell-O. 6,914; Oct. 2.

Genesee Pure Food Company, The, Le Roy, N. Y. The Grocery Boy. For Jell-O. 6,915; Oct. 2.

Hills Bros., San Francisco, Calif. It's real coffee. For Coffee. 6,916; Oct. 2.

Hills Bros., San Francisco, Calif. The recognized standard. For Coffee. 6,917; Oct. 2.

Hills Bros., San Francisco, Calif. Coffee flavor that satisfies. For Coffee. 6,918; Oct. 2.

Hills Bros., San Francisco, Calif. Remember the Man You'll remember the Can. For Coffee. 6,919; Oct. 2.

Hills Bros., San Francisco, Calif. Where the finest coffee flavor comes from. For Coffee. 6,920; Oct. 2.

Hills Bros., San Francisco, Calif. You can get good coffee. For Coffee. 6,921; Oct. 2.

Hills Bros., San Francisco, Calif. Yes people change to and then remain satisfied. For Coffee. 6,922; Oct. 2.

Hills Bros., San Francisco, Calif. It's sunny flavor wins your favor. For Coffee. 6,923; Oct. 2.

Maunion & Arthur Co., Perth Amboy, N. J. Shoot the Plugs Use One 400 Times and More. For Plugs for Cleaning Condenser Tubes. 6,924; Oct. 2.

Paramount Motors Syndicate, Los Angeles, Calif. Paramount. For Automobiles. 6,925; Oct. 2.

Squibb, E. R., & Sons, New York, N. Y. Everywhere, people welcome this better way of keeping their teeth sound and attractive! For Dental Cream. 6,926; Oct. 2.

Thurman, Victor E., Tampa, Fla. We-Fone-U Stores. For Groceries. 6,927; Oct. 2.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abbott, Frederick J., doing business as Crystal Petroleum Products Corporation, Los Angeles, Calif. Lubricating and motor oil and lubricating greases. 182,033; Oct. 2.

Allingham Candy Manufacturing Company, The, Colorado Springs, Colo. Confection. 158,912; Oct. 2.

American Auto Accessories Stores, Wilkes-Barre, Pa. Rubber and fabric tires and tubes for vehicles. 179,579; Oct. 2.

American Briar Pipe Company, Chicago, Ill. Cigar and cigarette holders. 183,685; Oct. 2.

American Fork & Hoe Company, The, Cleveland, Ohio. Reels for hose and the like. 181,714; Oct. 2.

American Lead Pencil Company, New York, N. Y. Pencil clips. 182,482; Oct. 2.

American Manufacturers Foreign Credit Underwriters, Inc., New York, N. Y. Periodical published monthly. 175,120; Oct. 2.

American Safety Razor Corporation, Brooklyn, N. Y. Razors, razor blades. 181,101; Oct. 2.

American Thread Company, The, Jersey City, N. J., and New York, N. Y. Cotton thread and yarn. 183,640; Oct. 2.

Arch Narrow Fabric Company, Auburn, R. I. Braid, braided tapes, elastic laces, etc. 181,470; Oct. 2.

Associated Textile Manufacturers, Inc., New York, N. Y. Manufactured textile fabrics. 174,279; Oct. 2.

Autol Scientific Laboratories. (See Cerny, George A.)

Bamberger, L., & Co., Newark, N. J. Women's dresses. 170,360; Oct. 2.

Banner Silk Knitting Mills, Inc., The, New York, N. Y. Knitted silk fabrics. 183,621; Oct. 2.

Banner Silk Knitting Mills, Inc., The, New York, N. Y. Knitted silk fabrics. 183,901; Oct. 2.

Barber, A. H., & Co., Chicago, Ill., and Plymouth and Dodgeville, Wis. Cheese. 182,040; Oct. 2.

Barber, A. H., & Co., Chicago, Ill., and Plymouth and Dodgeville, Wis. Cheese. 182,042; Oct. 2.

Berg, Charles F., Portland, Oreg. Hosiery. 180,833; Oct. 2.

Berman, Gustave, New York, N. Y. Umbrellas and parasols. 180,834; Oct. 2.

Bishop & Company, Los Angeles, Calif. Cookies. 182,465; Oct. 2.

Black Bros. Flour Mills, Beatrice, Nebr. Wheat flour. 182,396; Oct. 2.

Blackman, Maurice, Philadelphia, Pa. Sirups and non-alcoholic, maltless beverages. 150,588; Oct. 2.

Blankenburg, R., Company, The, Philadelphia, Pa. Cotton goods in the piece. 184,320; Oct. 2.

Blechman, S., & Sons Inc., New York, N. Y. Handkerchiefs, table covers, toweling, etc. 184,159; Oct. 2.

Blum & Bergeron, Houma, La. Dried shrimp. 181,168; Oct. 2.

Bob-o-Link Products Co. (See Schwartz, Paul H.)

Brandon, Lord & Nagle Co., The, New York, N. Y. Weekly publication. 181,726; Oct. 2.

Burnett, Blanche M., Highland Park, Mich. Toy animal figures. 178,709; Oct. 2.

Byrnes, Eugene, Carmel, Calif. Skates, baseballs, bats, etc. 182,130; Oct. 2.

Cantrell & Cochrane, Limited, Dublin, Ireland. Beverages sold as soft drinks. 181,672; Oct. 2.

Canvas Products Company, St. Louis, Mo. Grass catchers. 181,376; Oct. 2.

Carley, Leonard R., Watertown, Conn. Varnish, stains, ready-mixed, paste, or dry fillers and paints. 160,588; Oct. 2.

Cerny, George A., doing business as Autol Scientific Laboratories, Chicago, Ill. Body polish, top dressing, and paint enamel. 181,338; Oct. 2.

Chicago Paper Company, Chicago, Ill. Writing, printing, etc. paper. 171,727; Oct. 2.

Cincinnati Brush & Mop Manufacturing Company. (See Ungerbuehler, Albert L.)

Cohen, Joseph, doing business as The Princeton Club Co., Trenton, N. J. Beverages sold as soft drinks and sirups for making same. 178,331; Oct. 2.

Collins & Aikman Co., Philadelphia, Pa. Velvet, velour, plush, etc. 180,654; Oct. 2.

Commonwealth Color & Chemical Co., Brooklyn, N. Y. Fuel, lighting, heating, and lubricating oils and greases, etc. 179,359; Oct. 2.

Commonwealth Color & Chemical Co., Brooklyn, N. Y. Adhesive gums and sizings. 179,361; Oct. 2.

Consolvo Manufacturing Co., Inc., South Norfolk, Va. Paint and varnish remover. 181,475; Oct. 2.

Cooper, Milton G., Dry Goods Co., Los Angeles, Calif. Dresses, aprons, hosiery, etc. 180,844; Oct. 2.

Corn Products Refining Company, New York, N. Y. Sirup for food purposes. 178,593–6; Oct. 2.

Corticelli Silk Company, Florence, Northampton, Mass. Silk threads and threads of cotton and silk. 184,384; Oct. 2.

Crown Bottling Works. (See May, C. Edward.)

Crystal Chemical Co. (See Thompson, Zola.)

Crystal Petroleum Products Corporation. (See Abbott, Frederick J.)

Dabner, Jess E., Petaluma, Calif. Transparent dressing for painted and varnished surfaces and glass. 183,873; Oct. 2.

Dalley, F. F., Company, Inc., Buffalo, N. Y. Shoe-shining kits. 183,201; Oct. 2.

Davies, Rose & Co., Ltd., Boston, Mass. Flavoring for making beverages. 156,480; Oct. 2.

Defiance Dairy Products Company, The, Defiance, Ohio. Evaporated milk. 174,129; Oct. 2.

Dental Protective Supply Company, Chicago, Ill. Dental alloys and cements. 183,519; Oct. 2.

Detroit Dental Manufacturing Company, Detroit, Mich. Dental tools, instruments, and supplies. 181,592; Oct. 2.

Diamond State Fibre Company, Elsmere, Del., and Bridgeport, Pa. Gear blanks and gear wheels. 183,438; Oct. 2.

Diamond State Fibre Company, Elsmere, Del., and Bridgeport, Pa. Gear blanks and gear wheels. 183,440; Oct. 2.

Diem & Wing Paper Co., The, Cincinnati, Ohio. Wrapping paper. 183,056; Oct. 2.

Donley Brothers Company, The, Cleveland, Ohio. Drain-pipe traps for refrigerators and bathtubs, slop sinks, etc. 178,829; Oct. 2.

Eastern States Farmers' Exchange, Springfield, Mass. Mixed feed for cattle. 182,142; Oct. 2.

Economy Wiping Materials Co., Inc., New York, N. Y. Pieces of fabric used for polishing, cleaning, or dusting. 182,468; Oct. 2.

Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. 184,605; Oct. 2.

Evans, S. W., & Son, Philadelphia, Pa. Umbrella and parasol ribs. 185,009–10; Oct. 2.

Fenton, Arthur G., doing business as The Fenton Wholesale Co., Rochester, N. Y. Flavoring extracts, spices, celery seed, etc. 177,966; Oct. 2.

Finsilver, Still & Moss, Inc., New York, N. Y. Woolen piece goods. 172,589; Oct. 2.

Fitler, Edwin H., Co., The, Philadelphia, Pa. Harvesting and binder twines. 158,765; Oct. 2.

Flamingo Sugar Mills, Inc., Philadelphia, Pa. Sugar. 181,687; Oct. 2.

Flatopn Binder Company. (See Plushkell, August B.)

Fletcher, Robert, & Son, Limited, Stoneclough, near Manchester, England. Uncut cigarette paper. 179,999; Oct. 2.

Florida Products Company, Inc. New York, N. Y. Beverages sold as soft drinks. 182,506; Oct. 2.

Franklin, Charles, Boston, Mass. Sweaters and bathing suits. 180,117; Oct. 2.

Gagnier, George E., doing business as Gagnier Trimming Supply Co., Detroit, Mich. Fiber board and automobile panel material. 183,107–8; Oct. 2.

Garner Print Works & Bleachery, New York, N. Y. Cotton piece goods. 183,109; Oct. 2.

Garred & Krause Drug Co., Walla Walla, Wash. Photographs. 181,390; Oct. 2.

Gaudé, Francis J., Port Allen, La. Series of cartoons. 181,069; Oct. 2.

Gebr. Noelle, Ludenscheid, Germany. Knives, forks, and spoons of aluminum. 178,183; Oct. 2.

Gebs Boot Shop, Pittsburgh, Pa. Boots, shoes, and slippers, hosiery. 180,174; Oct. 2.

Glenco Products Company, Quincy, Ill. Mops. 176,175; Oct. 2.

Glidden Company, The, Cleveland, Ohio. Liquid varnish. 183,378; Oct. 2.

Godel, E., & Sons, Peoria, Ill. Lard. 165,586; Oct. 2.

Goepel, Charles H., jr., Philadelphia, Pa. Hosiery. 183,110; Oct. 2.

Goerdeler, Pearl P., Brooklyn, N. Y. Dolls. 180,536; Oct. 2.

Gong Bell Manufacturing Company, The, East Hampton, Conn. Toys. 165,190; Oct. 2.

Good-Grape Company, The, Chattanooga, Tenn. Beverages and compounds for making same. 178,720; Oct. 2.

Graf, William, doing business as Southwark Beverage & Products Co., Philadelphia, Pa. Malt sirups for beverage purposes. 181,443; Ooct. 2.

Grant, Wm., & Sons, Ltd., Dufftown, Scotland. Scotch whisky. 177,221–2; Oct. 2.

Grant, W. T., Company, New York, N. Y. Safety pins. 181,829; Oct. 2.

Grassmuck, H. O., Co., Los Angeles, Calif. Hosiery, underwear. 180,760; Oct. 2.

Grauert, Ralph W., New York, N. Y. Gold and bronze leaf. 181,391; Oct. 2.

Greasalt Products Corporation, New York, N. Y. Soaps and industrial cleaning compounds. 176,826; Oct. 2.

Guiterman Bros., St. Paul, Minn. Clothing for sport, work, and other wear. 173,354; Oct. 2.

Gunn Furniture Company, The, Grand Rapids, Mich. Counters, cafeteria tables, office tables, dressers, etc. 175,552; Oct. 2.

Haft, Morris W., & Bros. Inc., New York, N. Y. Ladies' outer garments. 183,064; Oct. 2.

Hanlon & Goodman Co., New York, N. Y. Paint, varnish, and calcimine brushes. 179,268; Oct. 2.

Hanselman Candy Company, Kalamazoo, Mich. Ice cream. 159,580; Oct. 2.

Hanzel, Stanley F., doing business as S. F. Hanzel Card Co., Chicago, Ill. Playing cards. 183,065–7; Oct. 2.

Havana Cigar and Tobacco Factories, Ltd., New York, N. Y. Cigars. 177,969–70; Oct. 2.

Hayes & Armstrong Mineral Wells, Tex. Furniture polish. 183,210; Oct. 2.

Hecker-Jones-Jewell Milling Company, New York, N. Y. Wheat flour. 182,805–8; Oct. 2.

Hercules Knitting, Milwaukee, Wis. Sweater coats, knitted caps, woolen hosiery, etc. 180,120; Oct. 2.

Hertz, Robert W., Indianapolis, Ind. Cartoons for publication in newspapers, magazines, etc. 174,900; Oct. 2.

Hickman, Alma P., Joplin, Mo. Cloth and stockinet dolls. 183,382; Oct. 2.

Highland Milling Company, Highland, Ill. Wheat flour. 177,740; Oct. 2.

Hillsdale Baking Company, Hillsdale, Mich. Bread. 182,149–50; Oct. 2.

Ho-Jay Corporation, Rochester, N. Y. Beverage coolers. 182,811; Oct. 2.

Ho-Jay Corporation, Rochester, N. Y. Beverages and sirups used in making same. 182,812; Oct. 2.

Hughes & Bradley Co., Philadelphia, Pa. Woven silk undergarments. 175,450; Oct. 2.

Hughes, Raleigh J., Greensboro, N. C. Building plans and designs. 181,992; Oct. 2.

Ice Poles, Inc., Boston, Mass. Iced confections. 164,760; Oct. 2.

Imlach, John S., Ottawa, Canada. Precision tools. 182,053; Oct. 2.

International Western Electric Company, Incorporated, New York, N. Y. Title of a quarterly publication. 182,973; Oct. 2.

Inter-State Oil Company, Kansas City, Kans. Lubricating oils and greases. 139,971; Oct. 2.

Ivins', J. S., Son, Inc., Philadelphia, Pa. Cookies, cakes and crackers. 181,749; Oct. 2.

Jaburg Bros., New York, N. Y. Food preparation for making cocoa beverage. 172,341; Oct. 2.

Jameson, James W., doing business as Jameson Oil Company, Los Angeles, Calif. Gasoline. 181,995; Oct. 2.

Jersey Silk Mills, New York, N. Y. Silk, silk and wool, etc., piece goods. 182,817; Oct. 2.

Jersey Silk Mills, New York, N. Y. Silk, silk and cotton, etc., piece goods. 182,821; Oct. 2.

Jett & Wood Mercantile Company, The, Wichita, Kans. Canned goods, spices, table sirups, etc. 178,253; Oct. 2.

Joannes Bros. Co., Green Bay, Wis. Canned fruits, vegetables, fish, and meats, dried fruits, fruit preserves, etc. 172,741; Oct. 2.

Johnson, Lawrence V., New York, N. Y. Handkerchiefs. 184,245; Oct. 2.

Johnson Motor Co., South Bend, Ind. Outboard internal-combustion motors for small craft. 183,385; Oct. 2.

Journeymen Barbers' International Union of America, Indianapolis, Ind. Magazines, calendar cards, etc. 175,247; Oct. 2.

Kahn, Emil, doing business as E. Kahn & Company, Chicago, Ill. Potatoes. 181,640; Oct. 2.

Keblor Flour Mills Company, St. Louis, Mo. Wheat flour. 182,419; Oct. 2.

King Lockwood Co., Bristol, Tenn. Overalls and coats. 182,827; Oct. 2.

Kolbert, Edward, & Sons, New York, N. Y. Fur collars and cuffs. 182,248; Oct. 2.

Kranenburg, Firma R. Groningen, Netherlands. Substitutes for white lead. 182,977; Oct. 2.

Lakeland Highlands Citrus Growers Assn., Haskell, Fla. Citrous fruits. 175,724; Oct. 2.

Landis & Gyr A.-G. Zug, Switzerland. Electrical recording measuring instruments. 181,692; Oct. 2.

Landis & Gyr A.-G. Zug, Switzerland. Electrical maximum recording measuring instruments. 181,693; Oct. 2.

Lillie Mill Company, Franklin, Tenn. Wheat flour. 182,758; Oct. 2.

Linnenfabrieken E. J. F. Van Dissel & Zonen Eindhoven, Netherlands. Linen, half-linen, and cotton fabrics. 179,611; Oct. 2.

Lionel Corporation, The, New York, N. Y. Tracks for toy electrical trains. 144,339; Oct. 2.

Lipin, John, doing business as Motor Go Oil Company, Millersville, Md. Lubricating oils and greases and gasoline. 183,630; Oct. 2.

Lysle, J. C., Milling Company, Leavenworth, Kans. Wheat flour. 173,098; Oct. 2.

McConnell Manufacturing Company, Newark, N. J. Hair wavers. 181,204; Oct. 2.

McLaurin-Jones Co., Brookfield, Mass. Coated book paper. 176,844; Oct. 2.

MacLean Drug Company, Chicago, Ill. Knives, shears, scissors, razors, etc. 178,756; Oct. 2.

Madden, D. D., & Co., Inc., Portland, Oreg. Paper used for printing or lithographing bank checks, etc. 182,713; Oct. 2.

Marshall Field & Company, Chicago, Ill. Women's muslin underwear. 181,267; Oct. 2.

Marty, Carl, & Company, Chicago, Ill. Cheese. 181,904; Oct. 2.

May, C. Edward, doing business as Crown Bottling Works, Baltimore, Md. Beverage sold as a soft drink. 178,347; Oct. 2.

Metzler & Comnany, Incorporated, New York, N. Y. Negotiable and registrable bonds. 180,338; Oct. 2.

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Mindlin, Benjamin, Jamaica, N. Y. Publication issued monthly. 180,614; Oct. 2.
Monadnock Beverage Company, Troy, N. H. Nonalcoholic, maltless soft drinks. 183,118; Oct. 2.
Monarch Specialty Manufacturing Co., New York, N. Y. Powder puffs. 182,255; Oct. 2.
Morris, Sloan, Morris & Co., Chicago, Ill. Hosiery, underwear, sweater coats, negligee and work shirts. 182,601; Oct. 2.
Motor Go Oil Company. (See Lipin, John.)
Mupu Citrus Association, Santa Paula, Calif. Fresh citrous fruits. 182,169; Oct. 2.
Mupu Citrus Association, Santa Paula, Calif. Fresh citrous fruits. 182,171; Oct. 2.
Murdock, Victoria, Estate, doing business as The Wichita Eagle, Wichita, Kans. Daily newspaper. 180,514; Oct. 2.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Cookies and small cakes. 182,435; Oct. 2.
National School Supply Association, Chicago, Ill. Magazine published monthly. 181,085; Oct. 2.
Nelson, E. G., & Son, Chicago, Ill. Thousand Island dressing, and mayonnaise dressing. 174,849; Oct. 2.
New Castle Notion Company, New Castle, Pa. Trousers, overalls, shirts, etc. 181,905; Oct. 2.
Nichols Electric Furniture Co., Bennington, Vt. Electrically-equipped serving table. 175,623; Oct. 2.
Northwestern Bakers & Confectioners Co., Minneapolis, Minn. Sirups and fruit and phosphatic acids and coloring extracts and flavorings for beverage purposes. 181,856; Oct. 2.
Nottage Company, The, Los Angeles, Calif. Men's and boys' work shirts, and children's blouses and play suits. 179,422; Oct. 2.
Nottingham Lace Works, Jersey City, N. J., and New York, N. Y. Laces, handkerchiefs, embroideries, and draperies, etc. 179,316; Oct. 2.
"Onyx" Hosiery, Inc., New York, N. Y. Children's hosiery. 182,670; Oct. 2.
Os-Jaco Braided Line Co., Pawtucket, R. I. Fishlines. 182,987; Oct. 2.
Oxford-Print, Boston, Mass. Wooden structure provided with seats in the nature of a merry-go-round. 144,246; Oct. 2.
P. & M. Company, Chicago, Ill. Rail anchors or anti-creepers. 180,738; Oct. 2.
Pabst Corporation, Milwaukee, Wis. Beverage sold as a soft drink. 181,210–11; Oct. 2.
Pabst Corporation, Milwaukee, Wis. Table water and root beer and nonalcoholic, maltless fruit-flavored soft drinks. 181,215; Oct. 2.
Paper Novelty Company, The, Green Bay, Wis. Package of paper napkins. 183,717; Oct. 2.
Pathé-Cinéma, Anciens Établissements Pathé Frères, Paris, France. Cameras, cinematographic projecting lanterns, stereoscopes, etc. 158,442; Oct. 2.
Peck, Elbert C., Los Angeles, Calif. Dry, paste, and ready-mixed paints, oil colors, varnish, etc. 183,499; Oct. 2.
Pennsylvania Textile Mills, Inc., Glen Riddle, Pa., and New York, N. Y. Garments for women. 181,862; Oct. 2.
Phenix Packing Co. (See Rosenberg, Samuel.)
Plushkell, August B., doing business as Flatopn Binder Company, Los Angeles, Calif. Loose-leaf binders. 181,864; Oct. 2.
Popular Products Company. (See Tauch, Werner C.)
Powers, Walter F., Chicago, Ill. Beverages. 165,809; Oct. 2.
Princeton Club Co., The. (See Cohen, Joseph.)
Prym, William, Company, Limited, The, Stolberg, Germany. Bone stilettos, hooks and eyes, corset eyes, snap fasteners, etc. 148,617; Oct. 2.
Quaker Oats Company, The Chicago, Ill. Wheat flour. 177,452; Oct. 2.
Radio-Films, Inc., Hollywood, Calif. Motion-picture films issued weekly. 166,149; Oct. 2.
Robinson, Alice G., Washington, D. C. Monthly publication. 182,719; Oct. 2.
Rockwood Manufacturing Company, The, Indianapolis, Ind. Fillers for power-transmission pulleys. 163,113; Oct. 2.
Rosenberg, Samuel, doing business as Phenix Packing Co., New York, N. Y. Caviar. 178,362; Oct. 2.
Ross & Company, New York, N. Y. Catalogues published annually. 169,327; Oct. 2.
Roth Tobacco Company, Cape Girardeau, Mo. Twist and plug tobacco. 182,006–7; Oct. 2.
Rubinowitz Bros., New York, N. Y. Hosiery and underwear. 182,266; Oct. 2.
Rugby Creamery, Rugby, N. Dak. Butter. 181,779; Oct. 2.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece, 184,520; Oct. 2.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. 184,523; Oct. 2.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. 184,565–6; Oct. 2.
Sauer, N., Milling Company, Cherryvale, Kans. Wheat flour. 153,787; Oct. 2.
Savage, T. R., Company, Bangor, Me. Tea, coffee, canned goods, etc. 179,963; Oct. 2.
Schwartz, Paul H., doing business as Bob-o-Link Products Co., Baltimore, Md. Malt extract. 182,013; Oct. 2.
Schwarzenbach Huber, Company, The, West Hoboken, N. J. Draperies. 181,415; Oct. 2.
See-Moon & Company, Chicago, Ill. Canned goods, preserved and dried fruits, cereals, etc. 164,270; Oct. 2.
Sethness Company, Chicago, Ill. Nonalcoholic, maltless sirup for making a citrous beverage. 173,147; Oct. 2.
Sewall Paint and Glass Company, Kansas City, Mo. Prepared paint. 183,320; Oct. 2.
Shinn, Jeannette C., doing business as J. C. Shinn Co., New York, N. Y. Educational card game. 174,217; Oct. 2.
Simon, J., & Cie., Lyon and Paris, France. Toilet soaps. 150,772; Oct. 2.
Soc. An. Fsco. Cinzano & Cia, Turin, Italy. Wines. 180,246; Oct. 2.
Soc. An. Fsco. Cinzano & Cia, Turin, Italy. Absinthe, brandy, gin, rum, etc. 180,247; Oct. 2.
Societe Vinicole de Champagne, Paris, France. Champagne wine. 165,215; Oct. 2.
Solomon Mfg. Co., St. Louis, Mo. Sport and outing dresses and suits. 178,006; Oct. 2.
Southwark Beverage & Products Co. (See Graf, William.)
Stanley Works, The, New Britain, Conn. Vises, bit braces, breast drills, planes, and parts thereof, etc. 179,432; Oct. 2.
Stein, A., & Company, Chicago, Ill. Dress shields, elastic webbing, shirred elastic ribbon. 183,004; Oct. 2.
Stero Corporation, The, Wilmington, Del. Handmade Chinese wool rugs and hair nets. 184,191; Oct. 2.
Stetson Shirt Co. Inc., New York, N. Y. Men's dress and negligee shirts. 179,834; Oct. 2.
Stoddard Mill & Grain Company, Advance, Mo. Wheat flour. 182,777; Oct. 2.
Stonecypher, George A., Tucson, Ariz. Bread. 165,418; Oct. 2.
Supplee-Wills-Jones Milk Company, Philadelphia, Pa. Raw milk, raw cream, pasteurized milk and cream, etc. 164,457; Oct. 2.
Swingley Bros., Rockford and Freeport, Ill., and Beloit, Wis. Butter. 182,781; Oct. 2.
Tampa Cigar Company, Tampa, Fla. Cigars. 182,115–16; Oct. 2.
Tauch, Werner C., doing business as Popular Products Company, San Antonio, Tex. Powdered polish for automobile bodies and other painted and varnished surfaces. 179,171; Oct. 2.
Tetamore, Henry L., Glendale, N. Y. Wrapping paper. 182,941; Oct. 2.
Thompson, Zola, doing business as Crystal Chemical Co., San Francisco, Calif. Wax for polishing floors, furniture, woodwork, etc. 182,552; Oct. 2.
Thomson Wood Finishing Co., The, Philadelphia, Pa. Paints, enamels, varnishes, etc. 181,873; Oct. 2.
Tingue, Brown & Co., New York, N. Y. Woven cotton feed ribbons for laundry machines. 175,532; Oct. 2.
Tingue Manufacturing Company, Seymour, Conn., and New York, N. Y. Woven pile fabrics of mohair. 183,895; Oct. 2.
Trenton Milling Company, Trenton, Ill. Self-rising wheat flour. 182,729; Oct. 2.
Tyroler, Joseph, New York, N. Y. Picture-projection lamps and parts thereof. 182,524; Oct. 2.
U. S. Mop Company, Inc., The, Toledo, Ohio. Floor mops, hand dusters, floor dusters, wall brushes. 150,170; Oct. 2.
Ungerbuehler, Albert L., doing business as Cincinnati Brush & Mop Manufacturing Company, Cincinnati, Ohio. Brooms. 183,129. Oct. 2.
United Chemical and Organic Products Co., Chicago, Ill. Steam bone mineral meal. 182,190. Oct. 2.
United Chemical and Organic Products Co., Chicago, Ill. Hog feed and meal. 182,191; Oct. 2.
United Hosiery Mills Corporation, Chattanooga, Tenn. Hosiery. 175,971; Oct. 2.
Verband der Schweizerischen Stickwaren-Ausrüstanstalten, St. Gall, Switzerland. Cotton fabrics woven and finished in Switzerland. 183,612; Oct. 2.
Viscose Company, The, Marcus Hook, Pa. Artificial-silk yarns and threads. 184,197; Oct. 2.
Vita Mineral Products Company, Peoria, Ill. Mineral stock food. 177,337; Oct. 2.
Volland, P. F., Co., Chicago, Ill. Fabric toy dogs adapted to be stuffed. 167,342; Oct. 2.
Voss & Stern, New York, N. Y. Silk chiffon cloth. 184,372; Oct. 2.
Ward Baking Company, New York, N. Y. Bread. 182,322; Oct. 2.

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Ward Baking Company, New York, N. Y. Bread. 182,687–8; Oct. 2.
Wholesale Distributors Co., The, Chicago, Ill. Canned fruits, vegetables, milk, chowchow, etc. 157,466; Oct. 2.
Wichita Eagle, The. (See Murdock, Victoria, Estate.)
Wigder, Bernard, doing business as The Wigder Manufacturing Co., Newark, N. J. Manicure implements. 159,341; Oct. 2.
Willis Norton & Co., North Topeka, Kans. Wheat flour. 182,325; Oct. 2.
Wright, Clair G., Kansas City, Mo. Men's underwear union suit. 181,097; Oct. 2.
Wyoming Toy Mfg. Co., Wilkes-Barre, Pa. Toy coaster vehicles. 183,462; Oct. 2.
Zobel, Ernst Company Inc., Brooklyn, N. Y. Protective composition in the nature of a paint for roofs. 163,208; Oct. 2.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Leathers. Robertson Leather Company. 173,695; Oct. 2; Serial No. 177,329; published June 19, 1923.

CLASS 3.

Musical-instrument cases. Gelb & Schaefer Co. 174,141; Oct. 2.

CLASS 4.

Auto and furniture cleaner. R. Boyakin. 173,621; Oct. 2; Serial No. 166,030; published June 26, 1923.
Belt dressing. Duryea Manufacturing Company. 173,800; Oct. 2; Serial No. 173,742; published June 12, 1923.
Cleaning and polishing combination for leather goods. W. E. Harris. 173,882; Oct. 2; Serial No. 176,180; published July 3, 1923.
Cleaning compound for rugs. J. J. Swayne. 173,879; Oct. 2; Serial No. 175,970; published July 10, 1923.
Cleaning powder. P. Tump. 173,795; Oct. 2; Serial No. 174,644; published May 29, 1923.
Cleaning preparation for bathtubs, sinks, porcelain, etc. T. E. Forster. 174,099; Oct. 2; Serial No. 184,467; published June 12, 1923.
Cleanser for all kinds of finished surfaces. J. G. Baker. 174,014; Oct. 2; Serial No. 175,458; published June 5, 1923.
Cleanser for the toilet, Antiseptic. Triple S Service Corporation. 173,798; Oct. 2; Serial No. 174,870; published July 3, 1923.
Cream, Shaving. P. Amsterdam. 173,814; Oct. 2; Serial No. 171,720; published June 5, 1923.
Fasteners made of ribbon or other material. M. J. A. Duvy. 173,635; Oct. 2; Serial No. 172,586; published May 29, 1923.
Leather preservative. G. L. Reish. 174,018; Oct. 2; Serial No. 175,824; published July 3, 1923.
Leather preservatives. North Star Chemical Works, Inc. 174,121; Oct. 2; Serial No. 155,630; published June 5, 1923.
Lye, Flake. Niagara Alkali Company. 173,595; Oct. 2; Serial No. 169,917; published June 26, 1923.
Metal polish. B. Heller & Company. 173,815; Oct. 2; Serial No. 171,757; published May 29, 1923.
Oils, Harness and sole-leather. Standard Oil Company. 173,597–8; Oct. 2; Serial Nos. 167,833–4; published June 5, 1923.
Paste for cleaning false teeth. H. Merritt. 173,678; Oct. 2; Serial No. 178,182; published July 3, 1923.
Polish, Shoe. Kraft Chemical Company. 173,801; Oct. 2; Serial No. 173,651; published June 12, 1923.
Polish, Stove. Capitol Chemical Company. 173,628; Oct. 2; Serial No. 162,721; published July 10, 1923.
Polishes, Shoe and leather. H. R. Calvert. 173,757; Oct. 2; Serial No. 177,358; published June 5, 1923.
Preparation for cleaning. Polygon Products Co. 173,754; Oct. 2; Serial No. 177,515; published July 3, 1923.
Renovating, cleaning, and metal-polishing preparations. Pom Chemical Co. Inc. 173,969; Oct. 2; Serial No. 168,124; published May 15, 1923.
Rug-cleaning compound. Rugclenso Mfg. Co. 173,631; Oct. 2; Serial No. 160,778; published May 29, 1923.
Shoe-shining preparation. Sanderson's Tintine Co. 173,763; Oct. 2; Serial No. 177,245; published June 26, 1923.
Soap. Eli Lilly and Company. 173,605; Oct. 2; Serial No. 166,459; published June 26, 1923.
Soap. Palisade Manufacturing Company. 173,886; Oct. 2; Serial No. 176,357; published July 10, 1923.
Soap. Taunton Electro-Chemical Company. 174,020; Oct. 2; Serial No. 175,277; published July 3, 1923.
Soap and soap products. Bonded Products Corporation. 173,758–9; Oct. 2; Serial Nos. 177,352–3; published June 5, 1923.
Soap, Common. N. K. Fairbank Company. 173,671; Oct. 2; Serial No. 177,905; published June 5, 1923.
Soap, Hand. P. Ciepiela. 173,873. Oct. 2; Serial No. 175,850; published June 5, 1923.
Soap, Laundry. William Cluff Company. 173,872; Oct. 2; Serial No. 175,769; published June 26, 1923.
Soap, Toilet. Flash Chemical Company. 173,884; Oct. 2; Serial No. 176,334; published June 12, 1923.
Soaps. Colgate & Company. 173,810; Oct. 2; Serial No. 171,451; published June 12, 1923.
Soaps. Pennsylvania Soap Company of Lancaster, Pa. 173,883; Oct. 2; Serial No. 176,277; published June 12, 1923.
Soaps, soap pastes, and powders. Parfumerie Roger et Gallet. 173,796; Oct. 2; Serial No. 174,589; published June 26, 1923.
Soaps, soap pastes, and soap powders. Parfumerie Roger & Gallet. 173,817; Oct. 2; Serial No. 171,867; published June 12, 1923.

CLASS 6.

Acid, sulphate quinine, domestic ammonia, sirup of squills, etc., Salicylic. Sanford, Chamberlain & Albers Company. 173,827; Oct. 2; Serial No. 175,408; published June 26, 1923.
Ammonia. Snow Cloud Ammonia Company. 173,777; Oct. 2; Serial No. 175,683; published June 26, 1923.
Biotherapeutic and opotherapeutic products. A. B. Adams. 174,002; Oct. 2; Serial No. 176,008; published July 17, 1923.
Blue, Ultramarine. Standard Ultramarine Co. 174,111; Oct. 2; Serial No. 170,907; published Mar. 20, 1923.
Bowel regulator. Lanman & Kemp, Inc. 173,665; Oct. 2; Serial No. 175,874; published June 26, 1923.
Cement to be used in stopping leaks in cooling systems of automobiles, etc. Fritz Radiator Cement Co. 174,050; Oct. 2; Serial No. 177,663; published July 10, 1923.
Cheese and butter colors. Levring and Company. 174,061; Oct. 2; Serial No. 178,449; published July 10, 1923.
Chemical composition for removing carbon from internal-combustion engines. Buffalo Specialty Company. 173,630; Oct. 2; Serial No. 161,522; published July 3, 1923.
Chemical compound used as an accelerator in the manufacture of rubber products. B. T. Vanderbilt Company. 173,773; Oct. 2; Serial No. 175,631; published June 26, 1923.
Chemical preparation. Berthorn Chemical Co. 174,021; Oct. 2; Serial No. 176,320; published June 19, 1923.
Chemical preparation for bleaching material. Surpass Chemical Co. 173,829; Oct. 2; Serial No. 175,170; published June 26, 1923.
Coloring and flavoring, Combined. B. Heller & Company. 174,008; Oct. 2; Serial No. 174,304; published July 17, 1923.
Cough mixture. Stolz Bros.-Davis Company. 173,902; Oct. 2; Serial No. 176,227; published July 10, 1923.
Cream and rouge, toilet water, etc., Facial. B. B. Forquer. 173,966; Oct. 2; Serial No. 159,862; published July 17, 1923.
Cream, Face. Inecto Incorporation. 173,908; Oct. 2; Serial No. 175,990; published July 10, 1923.
Creams, face powder, rouges, etc., Cold and day. M. C. Murphy. 173,970; Oct. 2; Serial No. 168,426; published July 17, 1923.
Dandruff remover, Liquid. S. P. Taylor. 174,072; Oct. 2; Serial No. 178,575; published July 10, 1923.
Dentifrice. M. W. Kent. 173,988; Oct. 2; Serial No. 178,724; published July 17, 1923.
Deodorants. L. Gaspari. 173,825; Oct. 2; Serial No. 175,483; published June 26, 1923.
Disinfectant. Graham Chemical Company. 174,150; Oct. 2.
Disinfectants. Britex Chemical Products Limited. 174,024; Oct. 2; Serial No. 176,397; published June 19, 1923.
Drink for chicks, Antiseptic. V. C. Getz. 173,894; Oct. 2; Serial No. 177,292; published July 10, 1923.
Dyestuffs. H. A. Metz & Co. 174,069; Oct. 2; Serial No. 178,563; published July 10, 1923.
Hair dressing. Diamond Laboratories, Inc. 173,868; Oct. 2; Serial No. 176,791; published June 12, 1923.
Hair dressing. J. Thompson. 173,694; Oct. 2; Serial No. 177,334; published June 12, 1923.
Hair grower, Antiseptic. George W. Merritt Company. 174,034; Oct. 2; Serial No. 176,749; published June 19, 1923.
Hair tonic, Floral antiseptic. George W. Merritt Company. 174,033; Oct. 2; Serial No. 176,748; published June 19, 1923.
Hair tonics. V. M. Corso. 173,900; Oct. 2; Serial No. 176,454; published July 10, 1923.

Insect repellent. F. G. Shaw. 173,899; Oct. 2; Serial No. 176,505; published July 10, 1923.
Insecticide. D. V. Burrell. 174,019; Oct. 2; Serial No. 175,297; published July 3, 1923.
Insecticide and deodorant. W. T. Johns. 173,807; Oct. 2; Serial No. 174,902; published July 10, 1923.
Insecticide for killing moths and carpet beetles. B. Heller & Company. 174,010; Oct. 2; Serial No. 174,301; published July 17, 1923.
Iodine preparation, Liquid. H. J. Novack. 174,075; Oct. 2; Serial No. 178,626; published July 10, 1923.
Laundry blue. Stanard Ultramarine Co. 174,033; Oct. 2; Serial No. 176,699; published June 19, 1923.
Liquid medicaments and ointments for antiseptic uses etc. Chloro Chemical Corporation. 174,073; Oct. 2; Serial No. 178,592; published July 10, 1923.
Lotion, Antiseptic, astringent, and deodorizing. Calcium Products, Incorporated. 174,022; Oct. 2; Serial No. 176,322; published June 19, 1923.
Lotion, Face and hand. Remiller Co. 174,065; Oct. 2; Serial No. 178,472; published July 10, 1923.
Lye. Pennsylvania Salt Manufacturing Company. 173,905–6; Oct. 2; Serial Nos. 176,096–7; published July 10, 1923.
Lye. Pennsylvania Salt Manufacturing Company. 173,907; Oct. 2; Serial No. 176,095; published July 10, 1923.
Magnesia used for pharmaceutical purposes. Laboratorio Chimico Farmaceutico Moderno Di Granelli Candiani & C. 173,779; Oct. 2; Serial No. 175,794; published June 26, 1923.
Medicinal and laxative tablets. Tanner & Poindexter. 174,004; Oct. 2; Serial No. 175,276; published July 17, 1923.
Medicinal ointment. Eli Lilly & Company. 173,653; Oct. 2; Serial No. 176,559; published June 19, 1923.
Medicinal preparation. Eli Lilly & Company. 174,144; Oct. 2.
Medicinal preparation. Armour and Company. 173,987; Oct. 2; Serial No. 178,702; published July 17, 1923.
Medicinal preparation. Standard Crayon Manufacturing Company. 173,824; Oct. 2; Serial No. 175,627; published June 26, 1923.
Medicinal preparation for pneumonia, etc. P. J. Gillen. 173,893; Oct. 2; Serial No. 177,294; published July 10, 1923.
Medicinal preparation to relieve pain. Heidbrink Company. 173,704; Oct. 2; Serial No. 176,998; published June 26, 1923.
Medicine for the treatment of hog cholera. Mrs. N. F. Hoffman. 174,067; Oct. 2; Serial No. 178,504; published July 10, 1923.
Medicine for the treatment of ingrowing toenails. I. & W Mfg. Company. 174,040; Oct. 2; Serial No. 177,445; published July 10, 1923.
Medicine used in cases of kidney and bladder troubles, etc. Organ-Iron Medicine Company. 174,064; Oct. 2; Serial No. 178,461; published July 10, 1923.
Medicine used in cases of stomach, liver, kidney, and bladder trouble, etc. Organ-Iron Medicine Company. 174,062; Oct. 2; Serial No. 178,459; published July 10, 1923.
Medicine used in cases of rheumatism, sciatica, etc. Organ-Iron Medicine Company. 174,063; Oct. 2; Serial No. 178,460; published July 10, 1923.
Motor saltz. B. R. Caswell. 173,912; Oct. 2; Serial No. 175,298; published July 10, 1923.
Mouth-wash preparation. Pyraid Products Corporation. 174,025; Oct. 2; Serial No. 176,428; published June 19, 1923.
Nickel sulphate. British America Nickel Corp'n Ltd. 174,115; Oct. 2; Serial No. 143,977; published July 3, 1923.
Nickel ammonium sulphate. British America Nickel Corp'n Ltd. 174,116; Oct. 2; Serial No. 143,978; published July 3, 1923.
Oil and ointment, Facial. Salon Viennese. 174,070; Oct. 2; Serial No. 178,570; published July 10, 1923.
Ointment for itching scalp, itching eczema, etc. Skratch Manufacturing Co. 173,778; Oct. 2; Serial No. 175,744; published June 26, 1923.
Ointment, Prophylactic. Stephen Craig Company. 173,663; Oct. 2; Serial No. 176,001; published June 26, 1923.
Ointments, influenza medicine, laxative tablets, etc. M. H. Beveridge. 173,632; Oct. 2; Serial No. 160,240; published July 3, 1923.
Perfume, toilet water, face, talcum, and sachet powders, etc. Houbigant, Inc. 174,038; Oct. 2; Serial No. 177,379; published July 10, 1923.
Perfumes. De Cameron, Inc. 174,145; Oct. 2.
Perfumes. De Cameron, Inc. 174,151–2; Oct. 2.
Pharmaceutical preparations. Medoc Distributing Company. 173,986; Oct. 2; Serial No. 143,773; published July 17, 1923.
Pharmaceutical preparations for coughs, whooping cough, etc. V. Baldarei. 174,112; Oct. 2; Serial No. 170,921; published July 3, 1923.
Pills, Kidney and bladder. Stephens-Bradley Company. 174,042; Oct. 2; Serial No. 177,462; published July 10, 1923.
Powder and cream, perfumes, toilet waters, etc., Face. C. A. Schwarze. 174,076; Oct. 2; Serial No. 178,676; published July 10, 1923.
Powder for nursery and toilet use. Crystal Chemical Co. 174,068; Oct. 2; Serial No. 178,554; published July 10, 1923.
Powders and creams, perfumes, toilet waters, etc., Face. A. Winarick. 174,052; Oct. 2; Serial No. 177,720; published July 10, 1923.
Powders and tablets. J. D. Lee. 173,833; Oct. 2; Serial No. 174,789; published June 26, 1923.
Preparation for neuralgia and headache. Warren P. Rash Co. 174,046; Oct. 2; Serial No. 177,621; published July 10, 1923.
Preparation for removing corns and calli. E. C. De Witt & Co. 174,074; Oct. 2; Serial No. 178,597; published July 10, 1923.
Preparation for the prevention of excessive perspiration. San-I-Sal Laboratories, Inc. 174,044; Oct. 2; Serial No. 177,519; published July 10, 1923.
Preparation for the treatment of all kinds of chronic bronchitis, phthisis, etc. First Texas Chemical Manufacturing Company. 174,045; Oct. 2; Serial No. 177,598; published July 10, 1923.
Preparation for the treatment of cuts, cracks and abrasions of the skin. H. & S. Products Co. 174,043; Oct. 2; Serial No. 177,487; published July 10, 1923.
Preparation for the treatment of piles. C. F. Futrell. 174,066; Oct. 2; Serial No. 178,500; published July 10, 1923.
Preparation for the treatment of rheumatism, neuritis, gout, etc. Vita-Sulphur Company. 174,047; Oct. 2; Serial No. 177,639; published July 10, 1923.
Preparation used in the treatment of general debility, lost vitality, etc. Standard Drug Company. 174,037; Oct. 2; Serial No. 176,290; published June 19, 1923.
Preparation for treatment of fever, polyarthritis, etc. Farbwerke vorm. Meister Lucius & Bruning. 173,862; Oct. 2; Serial No. 175,078; published July 3, 1923.
Radioactive reconstituent. A. Gazzoni & C. Il Gerente. 174,009; Oct. 2; Serial No. 173,885; published July 17, 1923.
Remedy for headache and neuralgia. Reese Chemical Company. 174,114; Oct. 2; Serial No. 139,754; published Nov. 8, 1921.
Remedy for indigestion and dyspepsia. M. Herndon. 173,610; Oct. 2; Serial No. 158,312; published July 11, 1922.
Roach-destroying composition. W. Schilplin. 174,051; Oct. 2; Serial No. 177,697; published July 10, 1923.
Rouge. Ross Company. 174,035; Oct. 2; Serial No. 176,763; published June 19, 1923.
Salt. Bevis Rock Salt Co. 173,999–174,001; Oct. 2; Serial Nos. 176,109–11; published July 17, 1923.
Salve for eczema, salt rheum, acne, etc. J. A. Bond. 174,109; Oct. 2; Serial No. 171,061; published July 10, 1923.
Salve for treating sore throat, croup, etc. Brooks Chemical Co. 174,029; Oct. 2; Serial No. 176,599; published June 19, 1923.
Saporific. Merck & Co. 173,892; Oct. 2; Serial No. 177,312; published July 10, 1923.
Shampoo cream. M. B. Horner. 173,986; Oct. 2; Serial No. 178,613; published July 17, 1923.
Shampoo preparation. Dearborn Supply Company. 174,048; Oct. 2; Serial No. 177,656; published July 10, 1923.
Spray, Insecticide. International Chemical Company of America. 173,895; Oct. 2; Serial No. 177,129; published June 26, 1923.
Toilet preparation. Dearborn Supply Company. 174,049; Oct. 2; Serial No. 177,657; published July 10, 1923.
Tonic for use in the treatment of anæmia, debility, stomach derangements, etc., Medical. W. H. Mathews. 174,041; Oct. 2; Serial No. 177,447; published July 10, 1923.
Tooth paste. Wm. McDonagh & Sons. 173,775; Oct. 2; Serial No. 175,669; published June 26, 1923.
Vegetable compound and system blood purifier. Wm. T. Hursh & Conn. 173,903; Oct. 2; Serial No. 176,185; published July 10, 1923.

CLASS 7.

Rope, Manila. Whitlock Cordage Co. 173,647; Oct. 2; Serial No. 176,773; published June 26, 1923.

CLASS 8.

Pipes, cigar and cigarette holders, and tobacco pouches. Alfred Dunhill of London, Inc. 174,098; Oct. 2; Serial No. 179,263; published July 10, 1923.

CLASS 9.

Shotguns. J. Stevens Arms Company. 173,958; Oct. 2; Serial No. 159,189; published July 17, 1923.

CLASS 13.

Baths, coffee and rice boilers, bowls, etc., Baby. Shapleigh Hardware Company. 174,106; Oct. 2; Serial No. 162,358; published July 3, 1923.
Bolts, rivets, and spikes. Milton Manufacturing Company. 173,705; Oct. 2; Serial No. 177,190; published June 12, 1923.
Cooking utensils, etc., over an open fire. Devices for supporting. Campfire Manufacturing Company. 174,103; Oct. 2; Serial No. 155,737; published July 3, 1923.

Faucets, cocks, etc. W. C. Grosser. 173,972; Oct. 2; Serial No. 172,592; published July 10, 1923.
Key chains. Boye Needle Co. 174,094; Oct. 2; Serial No. 179,773; published July 3, 1923.
Pans, saucepans, stock pots, kettles, etc., Frying. Nickel Fabricating Corp. 173,916; Oct. 2; Serial No. 174,908; published July 3, 1923.
Percolators, Aluminum. Tebbetts and Garland Store. 173,965; Oct. 2; Serial No. 171,600; published July 10, 1923.
Teapots, Aluminum. Tebbetts and Garland Store. 173,964; Oct. 2; Serial No. 171,599; published July 10, 1923.
Tubes. Anaconda Copper Mining Company. 173,938; Oct. 2; Serial No. 177,062; published July 10, 1923.
Valves for gas, steam, and water, Hand. Colonial Brass Works, Inc. 173,686; Oct. 2; Serial No. 177,651; published June 12, 1923.
Valves for gas, steam, and water, Hand. Colonial Brass Works, Inc. 173,752; Oct. 2; Serial No. 177,652; published June 12, 1923.
Valves, valve casings, insides, etc., Pneumatic. A. Schrader's Son, Incorporated. 173,962; Oct. 2; Serial No. 171,512; published July 10, 1923.

CLASS 14.

Stamps, fullered forgings, and I forgings, Forged bodies for hand. Jas. H. Matthews & Company. 173,746; Oct. 2; Serial No. 177,792; published June 12, 1923.
Steel sheets, bars, and plates, and blue annealed. R. G. Hird. 173,904; Oct. 2; Serial No. 176,127; published July 3, 1923.

CLASS 16.

Calcimine. West Coast Kalsomine Company. 174,143; Oct. 2.
Paint enamels. American Varnish Co. 173,708–9; Oct. 2; Serial No. 177,891–2; published June 26, 1923.
Polish, Furniture. Buddy Products Co. 173,742; Oct. 2; Serial No. 178,217; published June 19, 1923.

CLASS 17.

Cigarettes. I. Blum. 173,681; Oct. 2; Serial No. 178,213; published July 3, 1923.
Cigarettes. A. S. Wildes. 173,627; Oct. 2; Serial No. 164,210; published June 27.
Cigars. R. J. Seidenberg Co. 173,674; Oct. 2; Serial No. 178,003; published July 3, 1923.
Cigars and smoking tobacco. Joseph Farfaglia & Co. 173,954; Oct. 2; Serial No. 176,611; published July 10, 1923.

CLASS 19.

Vehicles, particularly automobile bodies. Welbilt Auto-Body Co. 173,693; Oct. 2; Serial No. 177,338; published June 19, 1923.

CLASS 22.

Baseballs and baseball gloves. Bon-Tober Sporting Goods Co. 173,725; Oct. 2; Serial No. 179,394; published July 3, 1923.
Baseballs, ball players' gloves and mitts. Rawlings Manufacturing Co. 173,740; Oct. 2; Serial No. 178,283; published June 19, 1923.
Bats, Baseball. Hillerich & Bradsby Co. 173,941; Oct. 2; Serial No. 180,432; published July 10, 1923.
Bats, Baseball. Hillerich & Bradsby Co. 173,943; Oct. 2; Serial No. 180,431; published July 10, 1923.
Bats, Baseball. Hillerich & Bradsby Co. 173,983–4; Oct. 2; Serial Nos. 180,433–4; published July 10, 1923.
Bats, Baseball. T. M. Shurtz. 173,690; Oct. 2; Serial No. 177,458; published June 19, 1923.
Dolls and puzzle games. Universal Feature & Specialty Company. 173,692; Oct. 2; Serial No. 177,344; published June 19, 1923.
Fishing lines, rods, snelled hooks, and leaders. A. G. Hall. 173,729; Oct. 2; Serial No. 180,065; published July 3, 1923.
Game. Lubbers and Bell Manufacturing Company. 173,735; Oct. 2; Serial No. 178,753; published June 19, 1923.
Game, Card. E. G. Sloman. 173,936; Oct. 2; Serial No. 177,143; published July 17, 1923.
Game, Card. H. Storgaard. 173,714; Oct. 2; Serial No. 178,699; published July 3, 1923.
Golf clubs. Allied Golf Company. 173,955; Oct. 2; Serial No. 169,272; published July 10, 1923.
Golf clubs. Crawford, McGregor & Canby Company. 173,813; Oct. 2; Serial No. 171,623; published July 3, 1923.
Toy dogs. F. O. King. 173,698; Oct. 2; Serial No. 177,229; published June 19, 1923.
Toys, Electrical. Lionel Corporation. 173,957; Oct. 2; Serial No. 163,099; published July 10, 1923.

CLASS 23.

Bearings, Journal. Oregon Brass Works. 174,057; Oct. 2; Serial No. 178,273; published July 10, 1923.
Beaters and mixers, Cake. J. A. Swope, jr. 173,934; Oct. 2; Serial No. 177,333; published July 17, 1923.
Carburetors and structural parts and fittings therefor. Eagle Carburetor Company. 174,060; Oct. 2; Serial No. 178,434; published July 3, 1923.
Diamond tools, diamond engraving and marking tools, and diamond drills. S. G. Warner. 174,154; Oct. 2.
Dies, Steel marking. Jas. H. Matthews & Company. 174,053; Oct. 2; Serial No. 177,791; published July 3, 1923.
Egg beaters. Turner & Seymour Manufacturing Co. 173,922; Oct. 2; Serial No. 178,580; published July 10, 1923.
Engines, Poppet valves for internal-combustion. Steel Products Company. 174,055–6; Oct. 2; Serial Nos. 178,069–70; published July 3, 1923.
Fire-extinguishing apparatus. Foamite-Childs Corporation. 174,078; Oct. 2; Serial No. 178,984; published July 3, 1923.
Fruit presses. M. J. Brown. 174,108; Oct. 2; Serial No. 166,498; published July 10, 1923.
Knives, Pocket tool. F. Van Der Vygh. 173,788; Oct. 2; Serial No. 176,343; published June 26, 1923.
Knives, Table. American Cutlery Company. 174,102; Oct. 2; Serial No. 149,621; published July 3, 1923.
Lathes, milling, and drilling machines, etc. Joseph T. Ryerson & Son. 173,703; Oct. 2; Serial No. 177,023; published June 19, 1923.
Loom sundries, Leather. Charles Bond Company. 173,733; Oct. 2; Serial No. 178,588; published June 12, 1923.
Oil-well machinery and tools. Boykin Machinery & Supply Co. 173,918; Oct. 2; Serial No. 174,062; published July 3, 1923.
Pistons, Motor. Muskegon Motor Specialties Company. 173,747; Oct. 2; Serial No. 177,749; published June 12, 1923.
Pulleys, Power-transmission. Rockwood Manufacturing Company. 174,153; Oct. 2.
Pumps. Unchokeable Pump, Limited. 173,935; Oct. 2; Serial No. 177,252; published July 10, 1923.
Rubber pads for use in the textile and other industries. Fellsway Rubber Co. 173,739; Oct. 2; Serial No. 178,337; published June 12, 1923.
Saws, hammers, sledges, etc. Sandvikens Jernverks Aktiebolag. 174,071; Oct. 2; Serial No. 178,571; published July 3, 1923.
Saws, hammers, sledges, etc. Sandvikens Jernverks Aktiebolag. 174,077; Oct. 2; Serial No. 178,872; published July 3, 1923.
Screen scratcher and rubber. M. L. Crawford. 173,920; Oct. 2; Serial No. 173,813; published July 3, 1923.
Track switches, switch stands, switch plates, and parts thereof. Ramapo Ajax Corporation. 173,737; Oct. 2; Serial No. 178,357; published June 12, 1923.
Transmission or crank casing parts. Hudson Motor Specialties Company. 174,104; Oct. 2; Serial No. 158,677; published July 3, 1923.
Turbines and reduction gears. Kerr Turbine Co. 173,928; Oct. 2; Serial No. 177,978; published July 10, 1923.
Vehicle accelerators, Motor. Williams Bros. Aircraft Corporation. 173,687; Oct. 2; Serial No. 177,579; published June 12, 1923.
Water-supply system, Automatic pneumatic. W. E. Dickey. 173,925; Oct. 2; Serial No. 178,433; published July 10, 1923.
Whistles, Power. H. Freund. 173,696; Oct. 2; Serial No. 177,289; published June 19, 1923.

CLASS 25.

Locks, Door. Bassick Company. 173,738; Oct. 2; Serial No. 178,324; published June 12, 1923.

CLASS 26.

Caliper gauges. Pratt & Whitney Company. 173,107; Oct. 2; Serial No. 164,452; published July 3, 1923.
Color shades, Apparatus for permitting the matching of. Gillet & Fils. 173,711; Oct. 2; Serial No. 177,181; published June 26, 1923.
Educational appliances. Radio Motion Picture Phon. Corp. 173,927; Oct. 2; Serial No. 178,282; published July 10, 1923.
Lenses for goggles and protection glasses. Willson Goggles, Inc. 174,105; Oct. 2; Serial No. 160,734; published July 4, 1922.
Patterns, Dress. Excella Pattern Company. 173,751; Oct. 2; Serial No. 177,660; published June 19, 1923.
Pens. Eugene Dietzgen Co. 173,913; Oct. 2; Serial No. 175,136; published July 3, 1923.
Photographic films. Ansco Company. 173,990–7; Oct. 2; Serial Nos. 178,797–804; published July 10, 1923.
Ring and magnifying glasses, Finger. C. M. Wiseman. 173,898; Oct. 2; Serial No. 176,520; published July 3, 1923.
Rules. Master Rule Mfg. Co. 173,939; Oct. 2; Serial No. 177,044; published July 10, 1923.

CLASS 29.

Brushes. McKesson & Robbins Inc. 173,932; Oct. 2; Serial No. 177,502; published July 17, 1923.
Mop and duster, Combination. A. Link. 173,691; Oct. 2; Serial No. 177,395; published June 19, 1923.
Oilers, yarn mops, dust cloths, and yarn dust brushes, Floor. Standard Oil Company of New York. 173,688; Oct. 2; Serial No. 177,576; published June 19, 1923.
Paintbrushes. Baker Brush Co. 173,736; Oct. 2; Serial No. 178,490; published June 29, 1923.

Powder puffs. A. J. Cosin. 173,700; Oct. 2; Serial No. 177,167; published June 19, 1923.
Toothbrushes. Geo. R. Gibson Co. 173,956; Oct. 2; Serial No. 165,791; published July 10, 1923.
Toothbrushes, hairbrushes, and nailbrushes. Heidner & Grinnell, Inc. 173,706; Oct. 2; Serial No. 178,247; published June 26, 1923.

CLASS 30.

Chinaware. Atlas China Company. 174,083; Oct. 2; Serial No. 181,104; published July 10, 1923.

CLASS 31.

Filters, Oily liquid for impregnating the filling mass of air. Wm. Reed Engineering Company. 173,828; Oct. 2; Serial No. 175,371; published June 26, 1923.

CLASS 32.

Bookcases, beds, book ends, buffets, benches, desks, etc. Gladding Dry Goods Co. 173,607; Oct. 2; Serial No. 158,829; published May 29, 1923.
Cabinets, Kitchen. Wasmuth-Endicott Company. 173,816; Oct. 2; Serial No. 171,774; published June 12, 1923.
Chair seats, Fiber. American Fibre Chair Seat Corporation. 173,769; Oct. 2; Serial No. 177,028; published June 12, 1923.
Desks. Durard Desk Mfg. Co. 173,603; Oct. 2; Serial No. 166,736; published June 12, 1923.
Furniture, Household and office. F. H. Miller. 173,865; Oct. 2; Serial No. 175,203; published May 29, 1923.
Hammocks and stands therefor, Couch. Atlas Hammock Co. 173,806; Oct. 2; Serial No. 178,048; published July 3, 1923.
Mattresses. John Hoey & Co. 173,766; Oct. 2; Serial No. 177,084; published May 29, 1923.
Mattresses. Never-Stretch Mattress Company. 173,871; Oct. 2; Serial No. 175,616; published May 29, 1923.
Shades, Porch and window. Aeroshade Company. 173,675; Oct. 2; Serial No. 178,016; published June 12, 1923.
Springs, mattresses, and pillows, Box. Schultz & Hirsch Co. 173,878; Oct. 2; Serial No. 175,950; published May 29, 1923.

CLASS 33.

Glassware, Table. Gimbel Brothers, Inc. 174,090; Oct. 2; Serial No. 180,063; published July 10, 1923.
Headlight glass. Warner-Patterson Company. 174,139; Oct. 2.

CLASS 34.

Burner drums. Cleveland Metal Products Company. 173,870; Oct. 2; Serial No. 176,951; published June 19, 1923.

CLASS 36.

Phonograph-record cabinets. National Record Exchange Company. 173,606; Oct. 2; Serial No. 159,717; published June 19, 1923.

CLASS 37.

Books of accounting and packages and pages therefor, Loose-leaf. Simplicity Sales Company. 173,744; Oct. 2; Serial No. 178,068; published June 19, 1923.
Paper and paper towels, Toilet. Sauquoit Toilet Paper Co. 173,662; Oct. 2; Serial No. 176,048; published June 26, 1923.
Paper, Crêpe. Dennison Manufacturing Co. 173,743; Oct. 2; Serial No. 178,093; published June 19, 1923.
Pencils, Lead. Eberhard Faber Pencil Company. 173,745; Oct. 2; Serial No. 177,835; published June 19, 1923.

CLASS 38.

Advertising literature. D. Relenvalen. 174,122; Oct. 2; Serial No. 156,860; published June 12, 1923.
Booklets and bonds. Caldwell & Company. 173,802; Oct. 2; Serial No. 173,562; published July 3, 1923.
Books and their component parts, Printed. Joseph Richards Company. 174,015; Oct. 2; Serial No. 175,407; published June 26, 1923.
Books, Informational picture. C. F. Talman. 173,767; Oct. 2; Serial No. 177,055; published June 19, 1923.
Bulletin, Church. Church Bulletin, Inc. 173,611; Oct. 2; Serial No. 158,178; published June 19, 1923.
Cards and placards, Advertising. Merchants Publishing Company. 173,600; Oct. 2; Serial No. 167,529; published June 26, 1923.
Cards, Greeting. Dupuis-Rickman Engraving & Embossing Co. 173,613; Oct. 2; Serial No. 157,560; published June 12, 1923.
Cartoon sections, Newspaper. J. A. Cunningham. 173,717; Oct. 2; Serial No. 178,959; published June 26, 1923.
Cartoons, Title for. Associated Editors. 173,765; Oct. 2; Serial No. 177,119; published June 12, 1923.
Magazine, Monthly. James W. Bell & Co. 174,012; Oct. 2; Serial No. 175,594; published June 12, 1923.
Magazine, Monthly. E. D. Houtain. 173,728; Oct. 2; Serial No. 179,859; published June 26, 1923.
Magazine, Name of a. S. Newman. 173,724; Oct. 2; Serial No. 179,380; published June 26, 1923.
Magazine, Weekly. Progressive Farmer Co. 173,888; Oct. 2; Serial No. 176,569; published June 19, 1923.
Magazines, books, and stories. Fiction House, Inc. 174,120; Oct. 2; Serial No. 155,304; published May 29, 1923.
Magazines, Monthly. Dean-Hicks Company, The. 173,727; Oct. 2; Serial No. 179,780; published June 26, 1923.
Magazines, Monthly. Kaufman-Clifford, Inc. 173,804; Oct. 2; Serial No. 173,331; published June 26, 1923.
Music, Sheet. M. Witmark & Sons. 173,720; Oct. 2; Serial No. 179,122; published June 26, 1923.
Newspaper and newspaper supplements. Tribune Company. 173,669; Oct. 2; Serial No. 177,707; published May 29, 1923.
Newspapers. L. Nelson-Kirkwood. 173,601; Oct. 2; Serial No. 167,361; June 12, 1923.
Paper and cardboard signs, displays, and billboard sheets. Rex Window Advertising Co. 173,768; Oct. 2; Serial No. 177,051; published June 12, 1923.
Periodical, Monthly. Better Pictures Publishing Co. 173,877; Oct. 2; Serial No. 175,912; published June 26, 1923.
Periodical, Monthly. Northwestern Bell Telephone Company. 173,721; Oct. 2; Serial No. 179,218; published June 26, 1923.
Periodical, Monthly. Tree Lovers Association of America. 173,718; Oct. 2; Serial No. 179,015; published June 26, 1923.
Periodical, Monthly. Yellow Cab Manufacturing Co. 173,676; Oct. 2; Serial No. 178,082; published June 12, 1923.
Periodicals. Excella Pattern Company. 173,668; Oct. 2; Serial No. 177,661; published June 19, 1923.
Photographic prints. Fowler & Slater Co. 173,682; Oct. 2; Serial No. 178,380; published July 3, 1923.
Pictures. D. Davidson. 174,117; Oct. 2; Serial No. 148,932; published June 19, 1923.
Pictures printed from camera negatives. Luxite Laboratories. 173,755; Oct. 2; Serial No. 177,497; published June 12, 1923.
Pictures, Sets of. Max B. Sheffer Card Co. 173,634; Oct. 2; Serial No. 172,404; published May 29, 1923.
Printed articles and letters. W. L. Barnhart. 174,017; Oct. 2; Serial No. 175,379; published June 12, 1923.
Publication, Monthly. Charles Scribner's Sons. 173,713; Oct. 2; Serial No. 178,631; published June 26, 1923.
Publication, Name of. American Education Press, Inc. 173,881; Oct. 2; Serial No. 176,246; published June 12, 1923.
Publications and printed literature. Philadelphia Quartz Company. 173,608; Oct. 2; Serial No. 158,728; published July 3, 1923.
Publications, Periodical. American Agriculturalist, Inc. 173,680; Oct. 2; Serial No. 178,204; published July 10, 1923.
Trading certificates. R. L. Mason. 173,803; Oct. 2; Serial No. 173,518; published May 29, 1923.

CLASS 39.

Apparel, Wearing. Childs Specialty House. 173,911; Oct. 2; Serial No. 175,849; published July 10, 1923.
Apparel, Women's wearing. A. H. Flanders Company. 173,976; Oct. 2; Serial No. 172,269; published July 17, 1923.
Bathing capes. Chesapeake Weaving Mills, Inc. 173,937; Oct. 2; Serial No. 177,121; published July 17, 1923.
Bathing suits, Knitted. Blue Ribbon Knitting Mills. 173,914; Oct. 2; Serial No. 175,063; published July 10, 1923.
Bloomers, pantalets, and petticoats, Women's. Eagle Skirt Company. 173,836; Oct. 2; Serial No. 171,490; published June 26, 1923.
Boots and shoes. Crooker & Morse, Inc. 173,756; Oct. 2; Serial No. 177,428; published July 10, 1923.
Boots and shoes. Juvenile Shoe Corporation of America. 173,835; Oct. 2; Serial No. 170,199; published June 26, 1923.
Boots and shoes. Juvenile Shoe Corporation of America. 173,837; Oct. 2; Serial No. 170,196; published June 26, 1923.
Boots and shoes. Juvenile Shoe Corporation of America. 174,110; Oct. 2; Serial No. 170,198; published June 26, 1923.
Boots and shoes. Philip Giard Shoe Company. 173,846; Oct. 2; Serial No. 173,886; published June 12, 1923.
Boots and shoes, Soles and heels for. Seiberling Rubber Company. 173,619; Oct. 2; Serial No. 164,564; published June 12, 1923.
Boots, shoes, slippers, and sandals. Bloom Sublyme Shoe Co. 173,812; Oct. 2; Serial No. 171,524; published July 3, 1923.
Brassières. D. Bickum. 173,661; Oct. 2; 176,159; published June 26, 1923.
Brassières. D. Bickum. 173,832; Oct. 2; Serial No. 174,999; published June 26, 1923.
Brassières. R. & R. Underwear. 173,975; Oct. 2; Serial No. 172,013; published July 17, 1923.
Cloaks, capes, and suits, Juniors' and misses'. Shoninger-Heinsheimer Manufacturing Co. 173,819; Oct. 2; Serial No. 171,964; published July 3, 1923.

Cloaks, suits, dresses. M. Kirschner & Sons. 174,058; Oct. 2; Serial No. 178,346; published July 10, 1923.
Coats and suits, Ladies'. Wilkin & Adler, Inc. 173,654; Oct. 2; Serial No. 176,519; published June 19, 1923.
Coats, Convertible. United States Overall Manufacturing Company. 173,664; Oct. 2; Serial No. 175,972; published June 19, 1923.
Coats, suits, duck trousers, vests, etc., Office. L. Berger. 174,131; Oct. 2.
Collars, Shirt. Geo. P. Ide & Co. 173,919; Oct. 2; Serial No. 174,012; published July 10, 1923.
Corsets. Mme. Irène. 173,838; Oct. 2; Serial No. 169,361; published Apr. 24, 1923.
Corsets. Weingarten Bros. 173,805; Oct. 2; Serial No. 173,061; published July 3, 1923.
Corsets and brassières. Interstate Corset Company. 173,648; Oct. 2; Serial No. 176,739; published June 26, 1923.
Corsets, brassières, and combination corsets and brassières. International Corset Company. 173,834; Oct. 2; Serial No. 174,785; published June 26, 1923.
Cravats, Knitted. P. Trabulsi. 173,712; Oct. 2; Serial No. 177,151; published June 26, 1923.
Dresses and aprons, Wash. John C. Michael Company. 173,760; Oct. 2; Serial No. 177,313; published July 10, 1923.
Dresses and waists. Samuel M. Foster Company. 173,685; Oct. 2; Serial No. 178,600; published July 10, 1923.
Dresses and waists. Pollak Bros. Company. 173,866; Oct. 2; Serial No. 175,211; published July 10, 1923.
Dresses, Children's. Martha Maid Manufacturing Company. 174,059; Oct. 2; Serial No. 178,367; published July 10, 1923.
Dresses, rompers, caps, coats, and hats, Infants'. Sachs Bros. and Jalkut. 173,650; Oct. 2; Serial No. 176,655; published June 26, 1923.
Dresses, Tailor-made. Greenwald, Friedman & Co. 173,699; Oct. 2; Serial No. 177,184; published June 19, 1923.
Frocks. Newman, Marcus & Torchia. 173,684; Oct. 2; Serial No. 178,455; published July 10, 1923.
Fur coats, wraps, capes, and neck pieces. H. Uswald. 173,973; Oct. 2; Serial No. 155,576; published July 17, 1923.
Garments, Knitted outer. Hawley Knitting Mills, Inc. 173,822; Oct. 2; Serial No. 172,221; published July 10, 1923.
Garters. President Suspender Company. 173,602; Oct. 2; Serial No. 166,787; published July 3, 1923.
Hat linings for ladies' hats. Chicago Mercantile Co. 173,640; Oct. 2; Serial No. 154,679; published May 8, 1923.
Hats, Ladies'. H. W. Jaediker. 173,761; Oct. 2; Serial No. 177,300; published July 3, 1923.
Hosiery. Dalton Hosiery Mills. 173,897; Oct. 2; Serial No. 176,720; published July 10, 1923.
Hosiery. Fay Hosiery Mills, Incorporated. 173,820; Oct. 2; Serial No. 171,989; published June 26, 1923.
Hosiery. Gerson & Breyer. 173,660; Oct. 2; Serial No. 176,174; published June 19, 1923.
Hosiery. L. E. Nicholson. 173,657; Oct. 2; Serial No. 176,275; published June 19, 1923.
Hosiery. Oliver Knitting Company. 173,641; Oct. 2; Serial No. 152,443; published Mar. 28, 1923.
Hosiery. United Hosiery Mills Corporation. 173,869; Oct. 2; Serial No. 176,861; published June 19, 1923.
Hosiery. D. Wallach. 174,036; Oct. 2; Serial No. 176,772; published June 19, 1923.
Hosiery. Wyman, Partridge & Co. 173,658; Oct. 2; Serial No. 176,306; published June 19, 1923.
Hosiery and garters. Howard Hose and Garter Mfg. Co. 174,013; Oct. 2; Serial No. 175,557; published July 10, 1923.
Kimonos, bath robes, etc. Joseph Bros. 174,016; Oct. 2; Serial No. 175,398; published July 10, 1923.
Knitted coats, jackets, and sweaters. J. S. Ellis. 173,830; Oct. 2; Serial No. 175,076; published June 26, 1923.
'Knitted underwear, Ladies'. R. A. Reiff. 173,659; Oct 2; Serial No. 176,216; published June 19, 1923.
Knitted wear. D. Ballantyne, Brothers & Company. 173,831; Oct. 2; Serial No. 175,053; published June 26, 1923.
Middies, smocks, and children's dresses. Trojan Middy Co. 173,652; Oct. 2; Serial No. 176,582; published June 10, 1923.
Neckties. Stern, Merritt Co. 173,875–6; Oct. 2; Serial No. 175,893–4; published July 10, 1923.
Pants, Men's. M. I. Reinhertz. 173,843; Oct. 2; Serial No. 171,957; published June 12, 1923.
Pants, overalls, jumpers, etc., Men's working. Standard Tent & Awning Company. 173,915; Oct. 2; Serial No. 174,943; published July 10, 1923.
Pyjamas, shirts, nightshirts, and men's robes. Knothe Brothers Co. 173,809; Oct. 2; Serial No. 171,422; published July 3, 1923.
Rubber boots and shoes and arctic overshoes. Goodyear Rubber Company. 173,885; Oct. 2; Serial No. 176,337; published July 10, 1923.
Shirts. A. Hartman. 173,874; Oct. 2; Serial No. 175,867; published July 10, 1923.
Shirts. A. Hartman. 173,909; Oct. 2; Serial No. 175,868; published July 10, 1923.
Shirts. A. Hartman. 173,910; Oct. 2; Serial No. 175,866; published July 10, 1923.
Shirts, Men's. Fessenden Shirt Co. 173,961; Oct 2; Serial No. 171,491; published July 17, 1923.
Shirts, Men's work. Reliance Manufacturing Company. 173,794; Oct. 2; Serial No. 174,753; published July 10, 1923.
Shirts, pyjamas, nightshirts. Tauber, Lipton & Company. 173,921; Oct. 2; Serial No. 173,612; published July 10, 1923.
Shoes. J. L. Hudson Company. 173,637; Oct. 2; Serial No. 167,917; published June 12, 1923.
Shoes. Lord & Taylor. 173,940; Oct. 2; Serial No. 176,486; published July 17, 1923.
Shoes. Majestic Shoe Company. 173,998; Oct. 2; Serial No. 176,412; published July 17, 1923.
Shoes. Niagara Shoe Company. 174,113; Oct. 2; Serial No. 171,029; published July 3, 1923.
Shoes. Robt. J. Sadler Shoe Co. 174,006; Oct. 2; Serial No. 174,978; published July 17, 1923.
Shoes, Leather. Dugan & Hudson Co. 174,011; Oct. 2; Serial No. 175,599; published July 10, 1923.
Skirts, Outer. Florabelle Dressmakers, Inc. 173,960; Oct. 2; Serial No. 171,310; published July 17, 1923.
Suits and overcoats. Scholderer & Aug, Inc. 173,791; Oct. 2; Serial No. 174,979; published July 10, 1923.
Suits, Boys'. Parker-Bridget Company. 173,811; Oct. 2; Serial No. 171,508; published July 10, 1923.
Suits, coats, trousers, etc., Men's. National Shirt Shops, Inc. 173,764; Oct. 2; Serial No. 177,194; published July 10, 1923.
Suits, jackets, raincoats, etc. J. David. 173,792; Oct. 2; Serial No. 174,894; published July 10, 1923.
Suits, Men's and young men's. J. L. Hudson Co. 173,979; Oct. 2; Serial No. 171,846; published July 17, 1923.
Sweater coats. Waymart Knitting Mill. 173,679; Oct. 2; Serial No. 178,199; published July 10, 1923.
Sweaters. Ely & Walker Dry Goods Company. 173,697; Oct 2; Serial No. 177,284; published June 19, 1923.
Sweaters and sweater coats. Rex Knitting Co. 173,651; Oct. 2; Serial No. 176,570; published June 19, 1923.
Undergarments. Jacob Miller's Sons Co. 173,821; Oct. 2; Serial No. 172,004; published July 3, 1923.
Undergarments, Women's. H. B. Hoffman. 173,864; Oct. 2; Serial No. 175,195; published July 10, 1923.
Underwear. Wyman, Partridge & Co. 173,656; Oct. 2; Serial No. 176,307; published June 19, 1923.
Underwear, Ladies' cotton knit. J. L. Miller. 173,942; Oct. 2; Serial No. 179,946; published July 17, 1923.
Uniforms. C. D. Randles. 173,974; Oct. 2; Serial No. 158,895; published July 17, 1923.

CLASS 40.

Beads and bead trimmings. Leo F. Phillips & Co. 173,623; Oct. 2; Serial No. 165,599; published July 3, 1923.
Braids, tassels, etc. Morisse Lace & Embroidery Co. 173,672; Oct. 2; Serial No. 177,983; published July 3, 1923.
Braids, tassels, passementeries, and garniture. Morisse Lace & Embroidery Co. 173,673; Oct. 2; Serial No. 177,984; published July 3, 1923.
Combs and barrettes. Pacific Novelty Company. 173,772; Oct. 2; Serial No. 176,851; published May 29, 1923.
Corset steels. Rite Form Corset Co. 173,863; Oct. 2; Serial No. 175,107; published June 12, 1923.
Dress shields. Associated Merchandising Corporation. 173,716; Oct. 2; Serial No. 178,705; published July 3, 1923.
Dress shields. J. B. Kleinert Rubber Company. 173,719; Oct. 2; Serial No. 179,104; published July 3, 1923.
Fringes and art needlework. Powers, Friend & Lichtman. 173,726; Oct. 2; Serial No. 179,426; published July 3, 1923.
Hair curlers. West Electric Hair Curler Company. 173,731; Oct. 2; Serial No. 180,313; published July 3, 1923.
Needles for hand sewing. John James & Sons Limited. 173,677; Oct. 2; Serial No. 178,105; published July 3, 1922.
Notions and small wares. William H. Cole & Co. 173,596; Oct. 2; Serial No. 167,973; published June 12, 1923.
Package outfit. L. H. Feldman. 173,917; Oct. 2; Serial No. 174,517; published July 10, 1923.
Rickrack braid and shirred ribbon elastic. Barash Brothers, Inc. 174,129; Oct. 2; Serial No. 180,738; published July 3, 1923.
Tape. Associated Merchandising Corporation. 173,715; Oct. 2; Serial No. 178,704; published July 3, 1923.

CLASS 41.

Umbrellas and parasols. F. M. Burns. 173,707; Oct. 2; Serial No. 177,956; published June 19, 1923.

CLASS 42.

Bed coverings, sheetings, pillowcases, etc. F. W. Hillig. 173,968; Oct. 2; Serial No. 161,550; published July 17, 1923.
Bedspreads. Primrose Draperies, Inc. 174,124; Oct. 2; Serial No. 180,493; published July 10, 1923.

Cloth and stuffs of wool and worsted. Pendle & Rivett Limited. 174,127; Oct. 2; Serial No. 180,549; published July 10, 1923.
Cotton and woolen piece goods and mixtures of the same in the piece. Atlantic Mills. 173,929; Oct. 2; Serial No. 177,947; published July 17, 1923.
Cotton duck and canvas piece goods. A. D. Juilliard & Co. 173,749; Oct. 2; Serial No. 177,673; published June 26, 1923.
Cotton fabrics in the piece, Woven. G. A. Stafford. 173,981; Oct. 2; Serial No. 135,737; published July 17, 1923.
Cotton fabrics, Woven. Roanoke Mills Company. 174,003; Oct. 2; Serial No. 175,439; published July 17, 1923.
Cotton goods in the piece. Lorraine Manufacturing Company. 173,734; Oct. 2; Serial No. 178,749; published June 12, 1923.
Cotton goods in the piece. David Schwartz Company. 174,128; Oct. 2; Serial No. 180,558; published July 10, 1923.
Cotton piece goods. African & Eastern Trading Co. 174,005; Oct. 2; Serial No. 175,230; published July 17, 1923.
Cotton piece goods. American Bleached Goods Company. 174,132; Oct. 2.
Cotton piece Goods. Joseph Bancroft & Sons Company. 174,027; Oct. 2; Serial No. 176,440; published June 19, 1923.
Cotton piece goods. Wilton Manufacturing Company. 174,091; Oct. 2; Serial No. 180,038; published July 3, 1923.
Gingham piece goods. Neuberger & Company. 173,723; Oct. 2; Serial No. 179,314; published July 10, 1923.
Ginghams in the piece. Fred Butterfield & Co. 173,624; Oct. 2; Serial No. 165,343; published July 10, 1923.
Hair nets. Be-Neet Manufacturing Co. 174,087; Oct. 2; Serial No. 180,356; published July 10, 1923.
Hair nets. George Borgfeldt & Co. 173,702; Oct. 2; Serial No. 177,120; published June 19, 1923.
Hair nets. Oriental Notions Company. 173,896; Oct. 2; Serial No. 177,019; published June 26, 1923.
Hair nets. O. K. Standard Dry Goods Co. 174,096; Oct. 2; Serial No. 179,491; published July 10, 1923.
Hair nets, Women's. J. C. Penney Company. 174,125; Oct. 2; Serial No. 180,491; published July 10, 1923.
Handkerchiefs. L. Bloch. 174,086; Oct. 2; Serial No. 180,413; published July 10, 1923.
Knitted piece goods. Rheinauer-Roth Knitting Mills, Inc. 173,748; Oct. 2; Serial No. 177,693; published June 26, 1923.
Knitted wool and cotton goods in the piece. Vary Knit Co. 174,093; Oct. 2; Serial No. 179,836; published July 3, 1923.
Pile fabric in the piece. S. Stroock & Company. 174,026; Oct. 2; Serial No. 176,434; published June 19, 1923.
Pillow cases. Naumkeag Steam Cotton Co. 174,100–1; Oct. 2; Serial Nos. 145,957–8; published July 10, 1923.
Poplins in the piece, Cotton. American Bleached Goods Company. 173,722; Oct. 2; Serial No. 179,255; published July 10, 1923.
Silk and cotton crêpe in the piece. Tilton & Keeler, Inc. 173,701; Oct. 2; Serial No. 177,149; published June 19, 1923.
Silk, cotton, etc., piece goods. Société Rodier. 174,084; Oct. 2; Serial No. 180,506; published July 10, 1923.
Silk, cotton, etc., piece goods. Société Rodier. 174,085; Oct. 2; Serial No. 180,504; published July 10, 1923.
Silk fabrics in the piece. Cheney Brothers. 174,126; Oct. 2; Serial No. 180,521; published July 10, 1923.
Silk piece goods. Duplan Silk Corporation. 174,079–82; Oct. 2; Serial Nos. 181,257–60; published July 17, 1923.
Silk ribbons in the piece. W. V. Judkins & Son. 173,750; Oct. 2; Serial No. 177,672; published June 26, 1923.
Tablecloths, napkins, scarfs, etc. F. W. Hillig. 173,967; Oct. 2; Serial No. 161,549; published July 17, 1923.
Tire fabrics in the piece. Salmon Falls Manufacturing Company. 174,007; Oct. 2; Serial No. 179,323; published July 17, 1923.
Wool textile piece goods, All-. W. H. Holbrook Company. 173,689; Oct. 2; Serial No. 177,489; published June 19, 1922.
Woolen goods in the piece. Worumbo Manufacturing Company. 173,732; Oct. 2; Serial No. 180,351; published July 10, 1923.
Woolen piece goods. Atlantic Mills. 173,930; Oct. 2; Serial No. 177,946; published July 17, 1923.
Woolens and worsteds in the piece. Warmbirds, Inc. 173,730; Oct. 2; Serial No. 180,312; published July 10, 1923.
Woven mesh fabrics. John Hollbach Company. 174,030; Oct. 2; Serial No. 176,628; published June 12, 1923.

CLASS 43.

Threads, Sewing. Barbour Flax Spinning Co. 174,092; Oct. 2; Serial No. 179,984; published July 10, 1923.
Yarn. C. D. Newell. 174,039; Oct. 2; Serial No. 177,420; published July 17, 1923.
Yarns. Bernhard Ulmann Co. 174,023; Oct. 2; Serial No. 176,376; published June 12, 1923.
Yarns. Pacific Mills. 174,028; Oct. 2; Serial No. 176,499; published June 19, 1923.
Yarns. E. A. Reed. 174,095; Oct. 2; Serial No. 179,623; published July 10, 1923.
Yarns, Cotton. Old Colony Manufacturing Corporation. 174,088; Oct. 2; Serial No. 180,237; published July 10, 1923.
Yarns for knitting, crocheting, and art needlework. Bernhard Ulmann Co. 174,089; Oct. 2; Serial No. 180,199; published July 10, 1923.

CLASS 44.

Boots and shoes. Combined arch-supporting and heel-locating shank pieces for. R. E. Bartels. 174,142; Oct. 2.
Surgeons' gloves. Davol Rubber Company. 173,649; Oct. 2; Serial No. 176,721; published June 26, 1923.
Surgical ligatures. Chandler & Fisher, Limited. 174,140; Oct. 2.
Syringes, Hypodermic. Doniger & Company. 173,646; Oct. 2; Serial No. 176,957; published May 8, 1923.

CLASS 45.

Beverage and sirups used in making same, Fruit. Queen City Bottling Company. 173,609; Oct. 2; Serial No. 158,333; published July 25, 1923.
Beverage compound and the beverages made therefrom. Zipp Manufacturing Company. 174,123; Oct. 2; Serial No. 132,673; published June 21, 1921.
Beverage sold as a soft drink. E. E. Carneal. 173,944; Oct. 2; Serial No. 179,354; published July 10, 1923.
Beverage sold as a soft drink. Sugar Loaf Beverage Co. 173,633; Oct. 2; Serial No. 108,728; published Feb. 8, 1921.
Beverage sold as a soft drink and sirups for making same. Sethness Company. 173,953; Oct. 2; Serial No. 175,681; published July 10, 1923.
Beverages and compounds and concentrates for making the same. Orange Crush Company. 174,146; Oct. 2.
Bverages sold as a soft drink. Mouquin Rt. & Wine Co. 173,797; Oct. 2; Serial No. 174,405; published July 3, 1923.
Beverages sold as soft drinks, Maltless carbonated. Florida Products Company. 174,054; Oct. 2; Serial No. 178,032; published July 3, 1923.
Drinks, Nonalcoholic, maltless soft. J. F. Lazier Mfg. Co. 173,989; Oct. 2; Serial No. 178,745; published July 17, 1923.
Sirups for soft drinks, Maltless soda-fountain. Elgot & Giuntini. 173,667; Oct. 2; Serial No. 177,659; published July 3, 1923.
Soda water. W. P. Courtney. 173,982; Oct. 2; Serial No. 181,062; published July 10, 1923.
Water, Artificially-prepared mineral. J. A. Steele. 173,901; Oct. 2; Serial No. 176,292; published July 3, 1923.

CLASS 46.

Apples, Fresh. Denney & Co. 173,616; Oct. 2; Serial No. 166,657; published July 3, 1923.
Apples, Fresh. Omak Fruit Growers. 174,148; Oct. 2.
Apples, Fresh boxed. R. J. Graham. 173,963; Oct. 2; Serial No. 171,536; published July 17, 1923.
Bacon. Detroit Packing Co. 174,135; Oct. 2.
Bacon, hams, and lard. George Little Limited. 173,670; Oct. 2; Serial No. 177,839; published July 10, 1923.
Biscuits. Perfection Biscuit Company. 173,818; Oct. 2; Serial No. 171,950; published Mar. 20, 1923.
Bread. J. C. Macpherson. 174,134; Oct. 2.
Candies. Robert A. Johnston Company. 174,136; Oct. 2.
Candies. Peterkin Company. 174,007; Oct. 2; Serial No. 174,485; published July 17, 1923.
Candies and candied fruits. Miller & Paine, Inc. 173,890; Oct. 2; Serial No. 176,750; published July 3, 1923.
Candy. H. Dilas. 173,889; Oct. 2; Serial No. 176,731; published July 10, 1923.
Candy. Elmer Candy Co. 173,861; Oct. 2; Serial No. 175,077; published July 3, 1923.
Candy. Elmer Candy Co. 173,867; Oct. 2; Serial No. 175,229; published July 3, 1923.
Candy. Euclid Candy Co. 173,782; Oct. 2; Serial No. 176,171; published July 3, 1923.
Candy. A. D. Flynn. 173,985; Oct. 2; Serial No. 178,601; published July 17, 1923.
Candy. M. A. Hasty. 173,856; Oct. 2; Serial No. 175,492; published July 3, 1923.
Candy. Huyler's. 173,971; Oct. 2; Serial No. 171,172; published July 17, 1923.
Candy. Walter M. Lowney Company. 173,786; Oct. 2; Serial No. 177,235; published July 3, 1923.
Candy. National Candy Company. 173,977; Oct. 2; Serial No. 172,549; published July 17, 1923.
Candy. New England Confectionery Company. 174,119; Oct. 2; Serial No. 154,810; published July 3, 1923.
Candy. Planters Nut & Chocolate Company. 173,887; Oct. 2; Serial No. 176,568; published July 3, 1923.
Candy bar. Hoffman Candy Co. 173,948; Oct. 2; Serial No. 178,343; published July 17, 1923.
Candy, Chocolate. C. C. Brown Candy Co. 173,839; Oct. 2; Serial No. 169,279; published July 3, 1923.

Canned and dried fruits and vegetables. Johnson-Locke Mercantile Co. 173,638; Oct. 2; Serial No. 168,314; published July 3, 1923.
Canned crab meat. Taiyo Trading Co. 173,891; Oct. 2; Serial No. 176,769; published July 3, 1923.
Canned fish. Abbott, Hall & Co. 173,753; Oct. 2; Serial No. 177,580; published July 3, 1923.
Canned fish. Altoona Packing Company. 173,924; Oct. 2; Serial No. 178,542; published July 17, 1923.
Canned fish. F. H. Fromm. 173,823; Oct. 2; Serial No. 172,329; published May 15, 1923.
Canned fruit and vegetables and dried fruit. Barron-Gray Packing Co. 173,931; Oct. 2; Serial No. 177,818; published July 17, 1923.
Canned fruits. Oregon Growers Cooperative Association. 173,852; Oct. 2; Serial No. 174,851; published July 3, 1923.
Canned fruits. Ray-Maling Co. 173,857; Oct. 2; Serial 175,809; published July 3, 1923.
Canned fruits and berries. Ray-Maling Co. 173,859; Oct. 2; Serial No. 175,812; published July 3, 1923.
Canned fruits and vegetables. Allen & Lewis. 173,848; Oct. 2; Serial No. 174,379; published July 3, 1923.
Canned fruits and vegetables. J. F. Butts Co. 173,923; Oct. 2; Serial No. 178,551; published July 17, 1923.
Canned fruits and vegetables. Holland Canning Company. 173,841; Oct. 2; Serial No. 171,917; published July 3, 1923.
Canned fruits and vegetables. Oregon Growers Cooperative Association. 173,615; Oct. 2; Serial No. 167,411; published July 3, 1923.
Canned fruits and vegetables. Oregon Growers Cooperative Association. 173,636; Oct. 2; Serial No. 167,412; published July 3, 1923.
Canned fruits, berries, and vegetables. Ray-Maling Co. 173,858; Oct. 2; Serial No. 175,810; published July 3, 1923.
Canned okra. C. Perceval. 173,785; Oct. 2; Serial No. 177,047; published July 3, 1923.
Canned peeled tomatoes and tomato sauce. P. Pastene & Co. 173,741; Oct. 2; Serial No. 178,278; published June 19, 1923.
Canned salmon. Chinook Packing Co. 173,844; Oct. 2; Serial No. 172,975; published July 3, 1923.
Canned salmon. McGovern & McGovern. 173,771; Oct. 2; Serial No. 176,904; published July 10, 1923.
Canned vegetables. A. W. Feeser. 173,850; Oct. 2; Serial No. 174,615; published July 3, 1923.
Caramels. Phoebe Phelps Caramel Co. 173,787; Oct. 2; Serial No. 177,243; published July 3, 1923.
Chocolate malted concentrate. Sethness Company. 173,847; Oct. 2; Serial No. 174,265; published July 3, 1923.
Coffee. George C. Buell & Co. 173,949; Oct. 2; Serial No. 178,819; published July 17, 1923.
Coffee. F. Cotera. 173,599; Oct. 2; Serial No. 168,208; published July 3, 1923.
Coffee. C. A. Isaacson. 174,130; Oct. 2.
Dates. Th. Giocalas & V. Coyimzoglu. 173,849; Oct. 2; Serial No. 174,438; published July 3, 1923.
Eggs, Fresh. S. J. Schenk. 174,137; Oct. 2.
Feeds, Poultry and stock. M. C. Peters Mill Co. 174,133; Oct. 2.
Flour, Wheat. M. Ainsa & Sons. 173,642; Oct. 2; Serial No. 157,908; Oct. 10, 1922.
Fruit, Preserved. Keystone Fruit Products Company. 173,945; Oct. 2; Serial No. 177,607; published July 17, 1923.
Fruit preserves, honey, and mincemeat. Standard Syrup Company. 173,666; Oct. 2; Serial No. 177,631; published July 3, 1923.
Fruits, Fresh citrous. Duarte-Monrovia Fruit Exchange. 173,781; Oct. 2; Serial No. 175,853; published June 26, 1923.
Fruits, Fresh citrous. Lindsay Co-operative Citrus Association. 173,826; Oct. 2; Serial No. 175,610; published June 26, 1923.
Fruits, Fresh citrous. Richardson-Marsh Corporation. 173,950; Oct. 2; Serial No. 178,867; published July 17, 1923.
Fruits, Fresh citrous. W. G. Roe. 173,710; Oct. 2; Serial No. 177,410; published July 3, 1923.
Fruits, Fresh citrous and deciduous. L. A. Banks. 173,645; Oct. 2; Serial No. 161,959; published July 3, 1923.
Fruits, Fresh deciduous. W. A. Caldwell. 173,840; Oct. 2; Serial No. 169,236; published July 3, 1923.
Fruits, Fresh deciduous. B. T. Shute. 173,880; Oct. 2; Serial No. 176,221; published July 3, 1923.
Fruits, fresh vegetables, etc., Fresh deciduous and citrous. Pleasant Grove Canning Company. 173,842; Oct. 2; Serial No. 171,951; published July 3, 1923.
Fruits, Preserved candied. Joseph Victori & Co. 174,147; Oct. 2.
Ginger, chutney, honey, etc. J. O. Taneyhill. 173,793; Oct. 2; Serial No. 174,757; published July 10, 1923.
Grapes, Fresh. Sunset Fruit Co. 173,639; Oct. 2; Serial No. 168,387; published July 3, 1923.
Gum, Chewing. Franklin-Caro Company. 173,620; Oct. 2; Serial No. 101,984; published July 3, 1923.
Gum, Chewing. Listerated Gum Corporation. 173,683; Oct. 2; Serial No. 178,399; published July 10, 1923.
Hams, shoulders, bacon, sausage, etc. Indianapolis Abattoir Company. 173,790; Oct. 2; Serial No. 177,380; published July 3, 1923.
Ice cream and frozen dainties. F. E. Mayol. 173,622; Oct. 2; Serial No. 165,697; published July 3, 1923.
Ice-cream cones. H. L. Goodwin. 173,618; Oct. 2; Serial No. 165,258; published July 3, 1923.
Ice-cream preparation. W. Klug. 173,851; Oct. 2; Serial No. 174,696; published July 3, 1923.
Jellies. V. P. Kennard. 173,860; Oct. 2; Serial No. 176,130; published July 3, 1923.
Lard substitute, Vegetable. Cooknut Corporation. 173,774; Oct. 2; Serial No. 175,650; published June 26, 1923.
Meats and meat products. N. Auth Prov. Co. 173,629; Oct. 2; Serial No. 162,092; published July 3, 1923.
Meats and meat products. N. Auth Prov. Co. 173,644; Oct. 2; Serial No. 162,093; published July 3, 1923.
Mustard, vinegar, tomato catchup, coffee, etc., Prepared. A. B. Gray. 173,933; Oct. 2; Serial No. 177,485; published July 17, 1923.
Nuts and nut products. United Fig & Date Co. 173,612; Oct. 2; Serial No. 157,701; published July 3, 1923.
Oil and canned fruits and vegetables, Olive. Mouquin Restaurant and Wine Company. 174,031; Oct. 2; Serial No. 176,687; published June 19, 1923.
Oil, Olive. Corrado & Marranzini. 173,626; Oct. 2; Serial No. 164,493; published June 5, 1923.
Oil, Olive. H. Karlin. 173,784; Oct. 2; Serial No. 176,550; published July 3, 1923.
Oil, Olive. C. Perceval. 173,770; Oct. 2; Serial No. 176,913; published July 3, 1923.
Oil, Olive. Rome Importing Co. 173,776; Oct. 2; Serial No. 175,680; published June 26, 1923.
Onions. W. R. Wedrick. 173,946; Oct. 2; Serial No. 177,941; published July 17, 1923.
Oranges and lemons, Fresh. Escondido Citrus Union. 173,789; Oct. 2; Serial No. 177,369; published July 3, 1923.
Pastry preparation. B. Heller and Company. 174,138; Oct. 2.
Peanuts prepared with meat extract. H. G. Craven. 173,643; Oct. 2; Serial No. 158,815; published July 10, 1923.
Pickles. E. W. Maffitt. 173,808; Oct. 2; Serial No. 171,371; published May 15, 1923.
Pickles, catchup, sauerkraut, etc. Hyman Pickle Co. 174,149; Oct. 2.
Pineapple glacé, glacé assorted fruits, and crystallized ginger. Causse Manufacturing & Importing Co. 173,762; Oct. 2; Serial No. 177,274; published July 3, 1923.
Pop corn, Candied. Mercier Bros. 173,854; Oct. 2; Serial No. 175,150; published July 3, 1923.
Potatoes and head lettuce. Johnson, Young & Hamilton. 173,978; Oct. 2; Serial No. 171,849; published July 17, 1923.
Prunes, Fresh. W. C. Stone. 173,617; Oct. 2; Serial No. 166,020; published July 3, 1923.
Rennet, junket tablets, and lactic ferment. N. Kjaergaard Jensens Tekn. Kem. Fabrik. 174,118; Oct. 2; Serial No. 154,654; published July 3, 1923.
Roast, spaghetti, potted beef, tripe, stew, etc., Pot. C. Molinelli. 173,783; Oct. 2; Serial No. 176,354; published July 3, 1923.
Salad dressings. J. C. Brown. 173,655; Oct. 2; Serial No. 176,446; published June 26, 1923.
Sauce, a combination of mushrooms, tomatoes, chicken, and tomato paste. Prince Macaroni Mfg. Co. 173,780; Oct. 2; Serial No. 175,808; published June 26, 1923.
Sausage and sausage meats. Keane Provision Co. 173,853; Oct. 2; Serial No. 175,085; published July 3, 1923.
Sausage, boiled ham, etc. Schaffner Brothers Company. 173,614; Oct. 2; Serial No. 169,931; published July 3, 1923.
Sea food. Star Fish & Oyster Co. 173,799; Oct. 2; Serial No. 174,156; published July 3, 1923.
Sirup, Bakers'. Adolph Coors Company. 173,604; Oct. 2; Serial No. 166,591; published July 3, 1923.
Sirups and extracts for flavoring foods. Walker Bros. Co. 173,845; Oct. 2; Serial No. 173,261; published July 3, 1923.
Tea. Fantea Company. 173,926; Oct. 2; Serial No. 178,335; published July 17, 1923.
Tomato hot sauce, canned vegetables, fruits, and fish. Bay Side Canning Company. 173,625; Oct. 2; Serial No. 165,339; published July 3, 1923.
Vegetable and mineral compound for neutralizing lactic acids in whipping cream and eggs. J. H. Lewis. 173,855; Oct. 2; Serial No. 175,253; published July 3, 1923.

CLASS 48.

Beverage, Malt. S. Liebmann's Sons, Inc. 173,952; Oct. 2; Serial No. 175,360; published July 10, 1923.
Malt extract. O. Thoma. 173,951; Oct. 2; Serial No. 179,241; published July 10, 1923.
Malt extracts for beverage purposes, Combination of. H. D. Sterrick. 173,959; Oct. 2; Serial No. 154,939; published July 10, 1923.
Sirup, Malt. M. Zigelman. 173,947; Oct. 2; Serial No. 178,083; published July 10, 1923.

ALPHABETICAL LIST OF LABELS.

Arabello Bitters. For a Medicinal Preparation—Namely, an Appetizing Digestive Tonic. Kronberger's Laboratories. 26,452; Oct. 2.
Big Mike Suspenders. For Men's Suspenders. Clawson & Wilson Company. 26,444; Oct. 2.
Bilt-E-Z The Boy Builder. For Toy Building Blocks. Scott Manufacturing Company. 26,464; Oct. 2.
Bluebirds for Happiness. For Liver Pills. Bluebird Pharmacal Co. 26,439; Oct. 2.
Bunte Licorice Tips. For Candy. Bunte Brothers. 26,443; Oct. 2.
Cedar Creek Crab Meat. For Crab Meat. U. S. Stewart & Bro. 26,465; Oct. 2.
Dorr's Vim Cleaning Compound. For a Cleaning Compound. C. Dorr. 26,446; Oct. 2.
Dr. Beck's Lasses Dreams. For Molasses Candy. C. M. Beck Company. 2,438; Oct. 2.
Drake Brand. For Apples. Earl Fruit Co. of the Northwest. 26,447; Oct. 2.
Edgemonte. For Boxes Containing Assorted Chocolates. Milwaukee Paper Box Company. 26,458; Oct. 2.
Emblems of Distinction. For Emblems and Badges. E. L. Logee Company. 26,455; Oct. 2.
Fashionable. For Hair Nets. A. Klar. 26,450; Oct. 2.
Granola. For Corn Oil. Bramu Packing Co. 26,440; Oct. 2.
Hillcrest Honey. For Extracted-Honey Containers. C. R. Anderson. 26,437; Oct. 2.
J. R. White's Emerald Soft Soap. For Soft Soap. J. R. White. 26,467; Oct. 2.
Maid-O-Wheat. For Bread. Newark Paraffine & Parchment Paper Co. 26,461; Oct. 2.
Model. For Ice Cream. Menasha Printing and Carton Company. 26,457; Oct. 2.
Odex. For a Foot Medicine for Treating the Feet. Odex Products Company. 26,462; Oct. 2.
Pretty baby. For Canned Citrous Fruits. W. E. Lee & Co. 26,454; Oct. 2.
Robin Brand. For Pure Ribbon Cane Sirup. Robinson Syrup Co. 26,463; Oct. 2.
S & M Spot-Lite. For Electric Spotlights. S. & M. Lamp Co. 26,463; Oct. 2.
Salt. For Salt. International Salt Company. 26,449; Oct. 2.
Sans Crème. For Boxes Containing Chocolates. Milwaukee Paper Box Company. 26,459; Oct. 2.
Sweet Clover Creamery Butter. For Creamery Butter. Sweet Clover Dairy Co. 26,466; Oct. 2.
The Kristo Board. For a Child's Drawing Board. Crawford-Rooney-Soderlund. 26,445; Oct. 2.
Treasure Chest. For Phonograph Records. C. Bruno & Son, Inc. 26,442; Oct. 2.
Treasure Chest (Spanish Scenes). For Phonograph Records. C. Bruno & Son, Inc. 26,441; Oct. 2.
Victor Rust Proof Spring Snap Fastener. For Snap Fasteners. New York Merchandise Company. 26,460; Oct. 2.
Viennette. For Hair Nets. A. Klar. 26,461; Oct. 2.
World Over. For Stogies. G. Mahnken. 26,456; Oct. 2.
Youthtone. For a Cosmetic. Mrs. E. W. Ingram. 26,448; Oct. 2.

ALPHABETICAL LIST OF PRINTS.

Cherry Whip. For Jell-O. Genesee Pure Food Company. 6,912; Oct. 2.
Coffee flavor that satisfies. For Coffee. Hills Bros. 6,918; Oct. 2.
Everywhere, people welcome this better way of keeping their teeth sound and attractive! For Dental Cream. E. R. Squibb & Sons. 6,926; Oct. 2.
It's real coffee. For Coffee. Hills Bros. 6,916; Oct. 2.
It's sunny flavor wins your favor. For Coffee. Hills Bros. 6,923; Oct. 2.
Only One in five is safe. For a Preparation for the Teeth. Forhan Company. 6,907; Oct. 2.
Paramount. For Automobiles. Paramount Motor Syndicate. 6,925; Oct. 2.
Pineapple Bavarian Cream. For Jell-O. Genesee Pure Food Company. 6,914; Oct. 2.
Polly Put The Kettle On. For Jell-O. Genesee Pure Food Company. 6,913; Oct. 2.
Pyorrhea-Applying Pyro-Pack Cream. For a Medicinal Cream for Treating Teeth. Brown-Brand & Brown. 6,905; Oct. 2.
Remember the Man You'll remember the Can. For Coffee. Hills Bros. 6,919; Oct. 2.
Saint Bernards. For a Frankfurter Inclosed and Baked Inside of a Biscuit or Roll. W. F. Copeland. 6,906; Oct. 2.
Shoot the Plugs Use One 400 Times And More. For Plugs for Cleaning Condenser Tubes. Mannion & Arthur Co. 6,924; Oct. 2.
The Big Brother Package. For Jell-O. Genesee Pure Food Company. 6,908; Oct. 2.
The Children's Grocery Store. For Jell-O. Genesee Pure Food Company. 6,910; Oct. 2.
The Grocery Boy. For Jell-O. Genesee Pure Food Company. 6,915; Oct. 2.
The Luncheon Party. For Jell-O. Genesee Pure Food Company. 6,909; Oct. 2.
The Maid. For Jell-O. Genesee Pure Food Company. 6,911; Oct. 2.
The recognized standard. For Coffee. Hills Bros. 6,917; Oct. 2.
We-Fone-U Stores. For Groceries. V. E. Thurman. 6,927; Oct. 2.
Where the finest coffee flavor comes from. For Coffee. Hills Bros. 6,920; Oct. 2.
Yes people change to and then remain satisfied. For Coffee. Hills Bros. 6,922; Oct. 2.
You can get good coffee. For Coffee. Hills Bros. 6,921; Oct. 2.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 2.

Reels for hose. American Fork & Hoe Company. 181,714; Oct. 2.

CLASS 4.

Soaps and industrial cleaning compounds. Greasalt Products Corporation. 176,826; Oct. 2.
Soaps, Toilet. J. Simon & Cie. 150,772; Oct. 2.

CLASS 5.

Gums and sizings, Adhesive. Commonwealth Color & Chemical Co. 179,361; Oct. 2.

CLASS 7.

Twines, Harvesting and binder. Edwin H. Fitler Co. 158,765; Oct. 2.

CLASS 8.

Cigar and cigarette holders. American Briar Pipe Company. 183,685; Oct. 2.

CLASS 13.

Drain-pipe traps, slop sinks, etc. Donley Brothers Company. 178,829; Oct. 2.

CLASS 14.

Gold and bronze leaf. R. W. Grauert. 181,391; Oct. 2.
Rail anchors or anticreepers. P. & M. Company. 180,238; Oct. 2.

CLASS 15.

Gasoline. J. W. Jameson. 181,995; Oct. 2.
Oil and greases. F. J. Abbott. 182,033; Oct. 2.
Oils and greases and gasoline, Lubricating. J. Lipin. 183,630; Oct. 2.
Oils and greases, Lubricating. Inter-State Oil Company 139,971; Oct. 2.
Oils, etc., Fuel, lighting, heating, and lubricating. Commonwealth Color & Chemical Co. 179,359; Oct. 2.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 16.

Dressing for painted and varnished surfaces and glass, Transparent. J. E. Dabner. 183,873; Oct. 2.
Lead, Substitutes for white. Tirma R. Kranenburg. 182,977; Oct. 2.
Paint and varnish removers. Consolvo Manufacturing Co. 181,475; Oct. 2.
Paint, Prepared. Sewall Paint and Glass Company. 183,320; Oct. 2.
Paints, enamels, varnishes, etc. Thomson Wood Finishing Co. 181,873; Oct. 2.
Paints, oil colors, varnish, etc. E. C. Peck. 183,499; Oct. 2.
Polish, Furniture. Hayes & Armstrong. 183,210; Oct. 2.
Polish, Powdered. W. C. Tauch. 179,171; Oct. 2.
Polish, top dressing, paint enamel, Body. G. A. Cerny. 181,338; Oct. 2.
Protective composition in the nature of a paint for roofs. Ernst Zobel Company. 163,208; Oct. 2.
Varnish, Liquid. Glidden Company. 183,378; Oct. 2.
Varnish, stains, ready-mixed, paste, or dry fillers and paints. L. R. Carley. 160,588; Oct. 2.
Wax for polishing. Z. Thompson. 182,552; Oct. 2.

CLASS 17.

Cigars. Havana Cigar and Tobacco Factories, Ltd. 177,969–70; Oct. 2.
Cigars. Tampa Cigar Company. 182,115–16; Oct. 2.
Tobacco. Roth Tobacco Company. 182,006–7; Oct. 2.

CLASS 22.

Cards, Playing. S. F. Hanzel. 183,065–7; Oct. 2.
Dolls. P. P. Goerdeler. 180,536; Oct. 2.
Dolls, Cloth and stockinet. A. P. Hickman. 183,382; Oct. 2.
Fishlines. Os-Jaco Braided Line Co. 182,987; Oct. 2.
Game, Educational card. J. C. Shinn. 174,217; Oct. 2.
Merry-go-round. Oxford-Print. 144,246; Oct. 2.
Skates, baseballs, golf balls, etc. E. Byrnes. 182,130; Oct. 2.
Toy animal figures. B. M. Burnett. 178,709; Oct. 2.
Toy coaster vehicles. Wyoming Toy Mfg. Co. 183,462; Oct. 2.
Toy dogs, Fabric. P. F. Volland Co. 167,342; Oct. 2.
Toy electrical trains, Tracks for. Lionel Corporation. 144,339; Oct. 2.
Toys. Gong Bell Manufacturing Company. 165,190; Oct. 2.

CLASS 23.

Gear blanks and wheels. Diamond State Fibre Company. 183,438; Oct. 2.
Gear blanks and wheels. Diamond State Fibre Company. 183,440; Oct. 2.
Grass catchers. Canvas Products Company. 181,376; Oct. 2.
Knives, forks, spoons, Aluminum. Gebr. Noelle. 178,183; Oct. 2.
Knives, shears, razors, etc. MacLean Drug Company. 178,756; Oct. 2.
Motors for small craft, Outboard internal-combustion. Johnson Motor Co. 183,385; Oct. 2.
Pulleys, Fillers for power-transmission. Rockwood Manufacturing Company. 163,113; Oct. 2.
Razors and razor blades. American Safety Razor Corporation. 181,101; Oct. 2.
Vises, bit braces, breast drills, planes, and parts thereof, etc. Stanley Works. 179,432; Oct. 2.

CLASS 26.

Cameras, cinematographic projecting lanterns, stereoscopes, etc. Pathé-Cinéma, Anciens Établissements Pathé Frères. 158,442; Oct. 2.
Electrical maximum recording measuring instruments. Landis & Gyr A.-G. 181,693; Oct. 2.
Electrical recording measuring instruments. Landis & Gyr A.-G. 181,692; Oct. 2.
Lamps and parts thereof, Picture-projection. J. Tyroler. 182,524; Oct. 2.
Picture films, Motion-. Radio-Films, Inc. 166,149; Oct. 2.
Precision tools. J. S. Imlach. 182,053; Oct. 2.

CLASS 29.

Brooms. A. L. Ungerbuehler. 183,129; Oct. 2.
Brushes, Paint, varnish, and calcimine. Hanlon & Goodman Co. 179,268; Oct. 2.
Mops. Glenco Products Company. 176,175; Oct. 2.
Mops, dusters, wall brushes, Floor. U. S. Mop Company. 150,170; Oct. 2.
Polishing, cleaning, or dusting, Pieces of fabric used for. Economy Wiping Materials Co. 182,468; Oct. 2.
Powder puffs. Monarch Specialty Manufacturing Co. 182,255; Oct. 2.
Shoe-shining kits. F. F. Dalley Company. 183,201; Oct. 2.

CLASS 31.

Beverage coolers. Ho-Jay Corporation. 182,811; Oct. 2.

CLASS 32.

Counters, cafeteria tables, dressers, etc. Gunn Furniture Company. 175,552; Oct. 2.
Table, Electrically-equipped serving. Nichols Electric Furniture Co. 175,623; Oct. 2.

CLASS 35.

Tires and tubes for vehicles. American Auto Accessories Stores. 179,579; Oct. 2.

CLASS 37.

Binders, Loose-leaf. A. B. Plushkell. 181,864; Oct. 2.
Fiber board and automobile panel material. G. E. Gagnier. 183,107–8; Oct. 2.
Paper, Coated book. McLaurin-Jones Co. 176,844; Oct. 2.
Paper napkins, Package of. Paper Novelty Company. 183,717; Oct. 2.
Paper, Uncut cigarette. Robert Fletcher & Son, Limited. 179,999; Oct. 2.
Paper used for printing or lithographing bank checks, etc. D. D. Madden & Co. 182,713; Oct. 2.
Paper, Wrapping. Diem & Wing Paper Co. 183,056. Oct. 2.
Paper, Wrapping. H. L. Tetamore. 182,941; Oct. 2.
Paper, Writing, printing, etc. Chicago Paper Company. 171,727; Oct. 2.
Pencil clips. American Lead Pencil Company. 182,462; Oct. 2.

CLASS 38.

Bonds. Metzler & Company. 180,338; Oct. 2.
Building plans and designs. R. J. Hughes. 181,992; Oct. 2.
Cartoons. R. W. Hertz. 174,900; Oct. 2.
Cartoons, Series of. F. J. Gaudé. 181,069; Oct. 2.
Catalogues. Ross & Company. 169,327; Oct. 2.
Magazine, Monthly. National School Supply Association. 181,085; Oct. 2.
Magazines, Calendar cards, etc. Journeymen Barbers' International Union of America. 175,247; Oct. 2.
Newspaper. Victoria Murdock Estate. 180,514; Oct. 2.
Periodicals. American Manufacturers Foreign Credit Underwriters, Inc. 175,120; Oct. 2.
Photographs. Garred & Krause Drug Co. 181,390; Oct. 2.
Publication, Monthly. B. Mindlin. 180,614; Oct. 2.
Publication, Monthly. A. G. Robinson. 182,719; Oct. 2.
Publication, Title of quarterly. International Western Electric Company. 182,973; Oct. 2.
Publication, Weekly. Bragdon, Lord & Nagle Co. 181,726; Oct. 2.

CLASS 39.

Boots, shoes, and slippers. Gebs Boot Shop. 180,174; Oct. 2.
Clothing. Guiterman Bros. 173,354; Oct. 2.
Dresses and suits. Solomon Mfg. Co. 178,906; Oct. 2.
Dresses, aprons, hosiery, etc. Milton G. Cooper Dry Goods Co. 180,844; Oct. 2.
Dresses, Women's. L. Bamberger & Co. 170,360; Oct. 2.
Fur collars and cuffs. Edward Kolbert & Sons. 182,248; Oct. 2.
Garments, Ladies' outer. Morris W. Haft & Bros. Inc. 183,064; Oct. 2.
Garments, Women's. Pennsylvania Textile Mills, Inc. 181,862; Oct. 2.
Hosiery. C. F. Berg. 180,833; Oct. 2.
Hosiery. C. H. Goepel, jr. 183,110; Oct. 2.
Hosiery. United Hosiery Mills Corporation. 175,971; Oct. 2.
Hosiery and underwear. Rubinowitz Bros. 182,266; Oct. 2.
Hosiery, Children's. "Onyx" Hosiery Inc. 182,670. Oct. 2.
Hosiery, underwear. H. O. Grassmuck Co. 180,760; Oct. 2.
Hosiery, underwear, sweater coats, shirts. Morris, Sloan, Morris & Co. 182,601; Oct. 2.
Overalls and coats. King Lockwood Co. 182,827; Oct. 2.
Shirts and children's blouses and play suits, Men's and boys' work. Nottage Company. 179,422; Oct. 2.
Shirts, Dress and negligee. Stetson Shirt Co. 179,834; Oct. 2.
Sweater coats, knitted caps, woolen hosiery, etc. Hercules Knitting Co. 180,120; Oct. 2.
Sweaters and bathing suits. C. Franklin. 180,117; Oct. 2.
Trousers, overalls, shirts, etc. New Castle Notion Company. 181,905; Oct. 2.
Undergarments, Woven silk. Hughes & Bradley Co. 175,450; Oct. 2.
Underwear union suit. C. G. Wright. 181,097; Oct. 2.
Underwear, Women's. Marshall Field & Company. 181,267; Oct. 2.

CLASS 40.

Braid, braided tapes, elastic laces, etc. Arch Narrow Fabric Company. 181,470; Oct. 2.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Dress shields, elastic webbing, shirred elastic ribbon. A. Stein & Company. 183,004; Oct. 2.
Hair wavers. McConnell Manufacturing Company. 181,204; Oct. 2.
Pins, Safety. W. T. Grant Company. 181,829; Oct. 2.
Stilettoes, hooks and eyes, snap fasteners, etc., Bone. William Prym Company. 148,617; Oct. 2.

CLASS 41.

Umbrella and parasol ribs. S. W. Evans & Son. 185,009–10; Oct. 2.
Umbrellas and parasols. G. Berman. 180,834; Oct. 2.

CLASS 42.

Cotton fabrics woven and finished in Switzerland. Verband der Schweizerischen Stückwaren-Ausrüstanstalten. 183,612; Oct. 2.
Cotton goods in the piece. R. Blankenburg Company. 184,320; Oct. 2.
Cotton piece goods. Garner Print Works & Bleachery. 183,109; Oct. 2.
Draperies. Schwarzenbach Huber Company. 181,415; Oct. 2.
Handkerchiefs. L. V. Johnson. 184,245; Oct. 2.
Handkerchiefs, table covers, toweling, etc. S. Blechman & Sons Inc. 184,159; Oct. 2.
Knitted silk fabrics. Banner Silk Knitting Mills, Inc. 183,621; Oct. 2.
Knitted silk fabrics. Banner Silk Knitting Mills, Inc. 183,901; Oct. 2.
Laces, handkerchiefs, embroideries, draperies, etc. Nottingham Lace Works. 179,316; Oct. 2.
Laundry machines. Woven cotton feed ribbons for. Tingue, Brown & Co. 175,532; Oct. 2.
Linen, half-linen, and cotton fabrics. Linnenfabrieken E. J. F. Van Dissel & Zonen. 179,611; Oct. 2.
Pile fabrics. Tingue Manufacturing Company. 183,895; Oct. 2.
Pile fabrics in the piece. Salt's Textile Manufacturing Company. 184,520; Oct. 2.
Pile fabrics in the piece. Salt's Textile Manufacturing Company. 184,521; Oct. 2.
Pile fabrics in the piece. Salt's Textile Manufacturing Company. 184,565–6; Oct. 2.
Rugs and hair nets. Handmade Chinese wool. Stero Corporation. 184,191; Oct. 2.
Silk, artificial-silk, etc., piece goods. Jersey Silk Mills. 182,817; Oct. 2.
Silk chiffon cloth. Voss & Stern. 184,372; Oct. 2.
Silk piece goods. Empire Silk Company. 184,605; Oct. 2.
Silk, silk and artificial-silk, etc., piece goods. Jersey Silk Mills. 182,821; Oct. 2.
Textile fabrics. Associated Textile Manufacturers, Inc. 174,279; Oct. 2.
Velvet, plush, etc., Collins & Aikman Co. 180,654; Oct. 2.
Woolen piece goods. Finsilver, Still & Moss, Inc. 172,589; Oct. 2.

CLASS 43.

Thread and yarn, Cotton. American Thread Company. 183,640; Oct. 2.
Threads and threads of cotton and silk, Silk. Corticelli Silk Company. 184,384; Oct. 2.
Yarns and threads, Artificial-silk. Viscose Company. 184,197; Oct. 2.

CLASS 44.

Dental alloys and cements. Dental Protective Supply Company. 183,519; Oct. 2.
Dental tools, instruments, and supplies. Detroit Dental Manufacturing Company. 181,592; Oct. 2.
Manicure implements. B. Wigder. 159,341; Oct. 2.

CLASS 45.

Beverage sold as a soft drink. C. E. May. 178,347; Oct. 2.
Beverage sold as a soft drink. Pabst Corporation. 181,210–11; Oct. 2.
Beverages. Cantrell & Cochrane, Limited. 181,672; Oct. 2.
Beverages. W. P. Powers. 165,809; Oct. 2.
Beverages and compounds for making same. Good-Grape Company. 178,720; Oct. 2.
Beverages and syrups used in making same. Ho-Jay Corporation. 182,812; Oct. 2.
Beverages sold as soft drinks. Florida Products Company. 182,506; Oct. 2.
Beverages sold as soft drinks and syrups for making same. J. Cohen. 178,331; Oct. 2.
Drinks, Soft. Monadnock Beverage Company. 183,118; Oct. 2.
Flavoring for making beverages. Davies, Rose & Co. 156,480; Oct. 2.
Syrup for making a citrous beverage. Sethness Company. 173,147; Oct. 2.
Syrups, acids, etc., for beverage purposes. Northwestern Bakers & Confectioners Co. 181,856; Oct. 2.
Syrups and nonalcoholic, maltless beverages. M. Blackman. 150,588; Oct. 2.
Water and root beer and fruit-flavored soft drinks, Table. Pabst Corporation. 181,215; Oct. 2.

CLASS 46.

Bread. Hillsdale Baking Company. 182,149–50; Oct. 2.
Bread. G. A. Stonecypher. 185,418; Oct. 2.
Bread. Ward Baking Company. 182,322; Oct. 2.
Bread. Ward Baking Company. 182,687–8; Oct. 2.
Butter. Rugby Creamery. 181,779; Oct. 2.
Butter. Swingley Bros. 182,781; Oct. 2.
Canned fruits and vegetables, chow-chow, etc. Wholesale Distributors Co. 157,466; Oct. 2.
Canned fruits, vegetables, fish, and meats, dried fruits, fruit preserves, etc. Joannes Bros. Co. 172,741; Oct. 2.
Canned goods, cereals, etc. See-Moon & Company. 164,270; Oct. 2.
Canned goods, spices, etc. Jett & Wood Mercantile Company. 178,253; Oct. 2.
Caviar. S. Rosenberg. 178,362; Oct. 2.
Cheese. A. H. Barber & Co. 182,040; Oct. 2.
Cheese. A. H. Barber & Co. 182,042; Oct. 2.
Cheese. Carl Marty & Company. 181,904; Oct. 2.
Confection. Allingham Candy Manufacturing Company. 158,912; Oct. 2.
Cookies. Bishop & Company. 182,465; Oct. 2.
Cookies and small cakes. National Biscuit Company. 182,435; Oct. 2.
Cookies, cakes, and crackers. J. S. Ivins' Son, Inc. 181,749; Oct. 2.
Feed and meal, Hog. United Chemical and Organic Products Co. 182,191; Oct. 2.
Feed, Cattle. Eastern States Farmers' Exchange. 182,142; Oct. 2.
Flavoring extracts, spices, celery seed, etc. A. G. Fenton. 177,966; Oct. 2.
Flour, Self-rising wheat. Trenton Milling Company. 182,729; Oct. 2.
Flour, Wheat. Black Bros. Flour Mills. 182,396; Oct. 2.
Flour, Wheat. Hecker-Jones-Jewell Milling Company. 182,805–8; Oct. 2.
Flour, Wheat. Highland Milling Company. 177,740; Oct. 2.
Flour, Wheat. Kehlor Flour Mills Company. 182,419; Oct. 2.
Flour, Wheat. Lillie Mill Company. 182,758; Oct. 2.
Flour, Wheat. J. C. Lysle Milling Company. 173,098; Oct. 2.
Flour, Wheat. Quaker Oats Company. 177,452; Oct. 2.
Flour, Wheat. N. Sauer Milling Company. 153,787; Oct. 2.
Flour, Wheat. Stoddard Mill & Grain Company. 182,777; Oct. 2.
Flour, Wheat. Willis Norton & Co. 182,325; Oct. 2.
Food, Mineral stock. Vita Mineral Products Company. 177,337; Oct. 2.
Food preparation for making cocoa beverage. Jaburg Bros. 172,341; Oct. 2.
Fruits, Citrous. Lakeland Highlands Citrus Growers Assn. 175,724; Oct. 2.
Fruits, Fresh citrous. Mupu Citrus Association. 182,169; Oct. 2.
Fruits, Fresh citrous. Mupu Citrus Association. 182,171; Oct. 2.
Ice cream. Hanselman Candy Company. 159,580; Oct. 2.
Iced confections. Ice Poles, Inc. 164,760; Oct. 2.
Lard. E. Godel & Sons. 165,586; Oct. 2.
Meal, Steam bone mineral. United Chemical and Organic Products Co. 182,190; Oct. 2.
Milk, cream, buttermilk. Supplee-Wills-Jones Milk Company. 164,457; Oct. 2.
Milk, Evaporated. Defiance Dairy Products Company. 174,129; Oct. 2.
Potatoes. E. Kahn. 181,640; Oct. 2.
Shrimp, Dried. Blum & Bergeron. 181,168; Oct. 2.
Sirup, Corn Products Refining Company. 178,593–6; Oct. 2.
Sirup, Malt. W. Graf. 181,443; Oct. 2.
Sugar. Flamingo Sugar Mills, Inc. 181,687; Oct. 2.
Tea, coffee, canned goods, etc. T. R. Savage Company. 179,963; Oct. 2.
Thousand Island and mayonnaise dressings. E. G. Nelson & Son. 174,849; Oct. 2.

CLASS 47.

Wine, Champagne. Societe Vinicole de Champagne. 165,215; Oct. 2.
Wines. Soc. An. Fsco. Cinzano & Cia. 180,246; Oct. 2.

CLASS 48.

Malt extract. P. H. Schwartz. 182,013; Oct. 2.

CLASS 49.

Absinthe, brandy, gin, etc. Soc. An. Fsco. Cinzano & Cia. 180,247; Oct. 2.
Whisky, Scotch. Wm. Grant & Sons, Ltd. 177,221–2; Oct. 2.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 2D DAY OF OCTOBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Aagaard, Chester S., Chicago, Ill. Paper. Des. 63,062; Oct. 2.
Aba, Eugene, Los Angeles, Calif. Electrotherapeutic apparatus. 1,469,471; Oct. 2.
Aberle, Edward, West Nutley, N. J. Loose-leaf binder. 1,469,573; Oct. 2.
Abrams, Ida C., New Haven, Conn. Sink pan. 1,469,371; Oct. 2.
Abzug, Nathan. (See Silberhartz, J., and Abzug.)
Adamy, Harry D., assignor to Merchants Gold Stamp Company, Wilkes-Barre, Pa. Trading stamp. Des. 63,063; Oct. 2.
Adcock, Mary K., Winchester, Ky. Window attachment. 1,469,241; Oct. 2.
Adreon, Robert E., St. Louis, Mo., and C. P. Cass, Berkeley, Calif., assignors to The American Brake Company, St. Louis, Mo. Slack adjuster. 1,469,571; Oct. 2.
Adreon, Robert E., St. Louis, Mo., and C. P. Cass, Berkeley, Calif., assignors to The American Brake Company, St. Louis, Mo. Slack adjuster. 1,469,572; Oct. 2.
Adriance Machine Works, Inc. (See Ross, Hugh M., assignor.)
Air Reduction Company, Incorporated. (See Napolitan, Francis J., assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Kubler, Johann, assignor.)
Aktiengesellschaft de Maschimenfabriken Escher Wyss & Cie. (See Weishäupl, Joseph, assignor.)
Albright, Nell T., assignor to Kokomo Automotive Mfg. Co., Kokomo, Ind. Windshield wing. 1,469,372; Oct. 2.
Aldobilt Company. (See Harrington, Clinton O., assignor.)
Allan, Alexander, Middletown, R. I. Salvaging method and apparatus. 1,469,574; Oct. 2.
Allan, James M., et al. (See Creigh, John I., assignor.)
Allard, George M., Spokane, Wash. Gate mechanism. 1,469,351; Oct. 2.
Alsfasser, Joseph, Chicago, Ill. Pressed-metal fastening bracket for pipe-damper regulators. 1,469,375; Oct. 2.
American Atomized Fuel Company. (See Gentine, Howard I., assignor.)
American Brake Company, The. (See Adreon, R. E., and Cass, assignors.)
American Fabrics Company. (See Hodgkins, Albert A., assignor.)
American Laundry Machinery Company, The. (See Waream, C. E., and Benjamin, assignors.)
American Telephone and Telegraph Company. (See Deardorff, Ralph W., assignor.)
American Telephone and Telegraph Company. (See Hamilton, Baxter P., assignor.)
American Wringer Company Inc. (See Keltie, George R., assignor.)
Anderson, Harry T., Butler, assignor to Standard Steel Car Company, Pittsburgh, Pa. Door-locking mechanism. 1,469,352; Oct. 2.
Anderson, Jasper R., Fargo, N. Dak. Necktie holder. Des. 63,064; Oct. 2.
Anthony, Thomas P., Edgewater Park, N. J. Pipe manufacture. 1,469,206; Oct. 2.
Aquazone Laboratories, Inc. (See Brazelle, Benjamin, assignor.)
Arena, Fernando, Sao Paulo, Brazil. Machine for the manufacture of piping and the like by centrifugal castings. 1,469,242; Oct. 2.
Armbruster, Charles E. H., Denver, Colo. Reflectoscope. 1,469,411; Oct. 2.
Armbruster, Charles E. H., Denver, Colo. Dynamic phoroptometers. 1,469,412; Oct. 2.
Arnal, Albert E., Paris, France. Artificial arm. 1,469,431; Oct. 2.
Ashley, Frank M. (See Trust, H., and Ashley.)
Asserson, Henry R., New York, N. Y. Concrete pile and the like. 1,469,611; Oct. 2.
Aston, James, assignor to A. M. Byers Company, Pittsburgh, Pa. Manufacture of wrought iron. 1,469,373; Oct. 2.
Aston, James, assignor to A. M. Byers Company, Pittsburgh, Pa. Making wrought iron. 1,469,374; Oct. 2.
Attractive Publicity, Limited. (See Parkinson, Richard H., assignor.)
Automotive Accessories, Inc. (See Hubbard, Burtt J., assignor.)
B. O. T. Mfg. Co. (See Florey, Tilghman J., assignor.)
Bachert, Adam. (See Newhard, Monte W., assignor.)
Backscheider, Nicholas A., Clifton, Ky. Ignition timer. 1,469,243; Oct. 2.
Baehr, George, Coraopolis, Pa. Feed-control device for die rolls. 1,469,575; Oct. 2.
Bahr, August T. J., Murphysboro, Ill., assignor of one-fourth to R. A. Hatfield, one-fourth to J. J. Gallagher, three-eighths to F. Heiberg, and one-eighth to C. Franks, St. Louis, Mo. Three-way faucet. 1,469,612; Oct. 2.
Bailey, George A., Manning, Iowa. Animal poke. 1,469,492; Oct. 2.
Bailey, Joseph K., assignor to Bayco Decoy Company, Inc., New Orleans, La. Decoy duck. 1,469,613; Oct. 2.
Bangert, Adolph, Union Hill, N. J. Combination tool. 1,469,472; Oct. 2.
Bard, Everett, Water Valley, Ky. Jar-cover crimper. 1,469,403; Oct. 2.
Barnett, Gertrude, San Francisco, Calif. Teapot. Des. 63,065; Oct. 2.
Bartels, Carl P. (See Goldsmith, G. M., and Bartels.)
Bartholomew, John R., Berkeley, Calif., assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Automotive brake mechanism. 1,469,551; Oct. 2.
Barton, Charles N., Indianapolis, Ind. Cutting link for coal-cutting chains. 1,469,576; Oct. 2.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 1,469,244; Act. 2.
Battaline, Palmer R., Hartford, Conn. Tire spreader. 1,469,473; Oct. 2.
Bauersfeld, Walther, assignor to the Firm of Carl Zeiss, Jena, Germany. Compensating device for cinematographs. 1,469,474; Oct. 2.
Bauwens, Seraphine F., Chicago, Ill., assignor to Wirebounds Patents Company. Wire-joining tool. 1,469,711; Oct. 2.
Baxter, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting machine. 1,469,245; Oct. 2.
Bayco Decoy Company. (See Bailey, Joseph K., assignor.)
Beeby, Frank F., assignor to Cement-Gun Construction Company, Chicago, Ill. Conserving and repairing chimneys. 1,469,712; Oct. 2.
Bender, George W., assignor to Mudge & Company, Chicago, Ill. Ventilator. 1,469,577; Oct. 2.
Benevento, Giuseppe S., Donora, Pa. Hand-embroidery implement. 1,469,353; Oct. 2.
Benjamin & Johnes. (See Roth, Isidor, assignor.)
Benjamin, Dana H. (See Waream, C. E., and Benjamin.)
Benton, Harry O., Bayonne, N. J., assignor to Standard Development Company. Corking machine. 1,469,614; Oct. 2.
Bernhard, Hans, Berne, Switzerland. Pencil sharpener. 1,469,432; Oct. 2.
Berry, George S., et al. (See Kotzebu, Meinhard H., assignor.)
Bethlehem Steel Company. (See Comstock, George S., jr., assignor.)
Bieler, Oscar, Pittsburgh, Pa. Car-unloading apparatus. 1,469,246; Oct. 2.
Bigby, Louis I. M., and J. R. Meikle, assignors to Thomas Meadows & Co. Limited, London, England. Packing case. 1,469,615; Oct. 2.
Bigelow, Roy S., assignor to Goodman Manufacturing Company, Chicago, Ill. Drier-car-handling apparatus. 1,469,376; Oct. 2.
Blackinton, Ernest D., Groton, and G. E. Smith, Waterford, Conn. Portable cab. 1,469,713; Oct. 2.
Blakeslee, George S., Oak Park, Ill. Washing machine. 1,469,207; Oct. 2.
Blaser, George U., assignor to Kelly Springfield Tire Company, Cumberland, Md. Vehicle tire. Des. 63,097; Oct. 2.
Blessing, Charles B., assignor to Blessing Electric and Manufacturing Company, Chicago, Ill. Casing for fruit-juice extractor. Des. 63,066; Oct. 2.
Blessing Electric and Manufacturing Company. (See Blessing, Charles B., assignor.)
Blood, Harold L., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Lathe-controlling mechanism. 1,469,354; Oct. 2.

Bohlman, Ernest A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Switchboard lamp. 1,469,208; Oct. 2.
Bohrmann, William C., Belvedere, Calif. Abrasive device. 1,469,404; Oct. 2.
Bojtos, Dezsö, Koebling, N. J. Waterproof boot. 1,469,291; Oct. 2.
Boley, Warren, Lodi, Ohio. Cable hanger. 1,469,578; Oct. 2.
Bolger, Edward, New York, N. Y. Oiling device. 1,469,616; Oct. 2.
Bonamy, Edward L. (See Elliott, P. J., and Bonamy.)
Bone, David R., Oglesby, Tex. Apparatus for hydrating lime. 1,469,299; Oct. 2.
Borden, Edward R., assignor to Mudge & Company, Chicago, Ill. Power-transmission device. 1,469,579; Oct. 2.
Bower, Ferdinand A., Flint, assignor to General Motors Corporation, Detroit, Mich. Brake mechanism for motor vehicles. 1,469,247; Oct. 2.
Boyd, John S., assignor to John S. Boyd Co., Inc., Williamstown, Mass. Textile fabric. Des. 63,067; Oct. 2.
Boyd, John S., assignor to John S. Boyd, Inc., Williamstown, Mass. Textile fabric. Des. 63,068; Oct. 2.
Boyd, John S., assignor to John S. Boyd Co., Inc., Williamstown, Mass. Textile fabric. Des. 63,069; Oct. 2.
Boyd, John S., Co. (See Boyd, John S., assignor.)
Boyle, James C., Flint, Mich. Automobile gear-shift control. 1,469,580; Oct. 2.
Brand, James C. (See Chase, L. W., McGeachin, and Brand.)
Braun, Otho N., Montgomery, L. F. Nichols, Handley, and E. L. Underwood, London, W. Va. Mail-bag-delivering apparatus. 1,469,405; Oct. 2.
Brazelle, Benjamin, assignor to Aquazone Laboratories, Inc., Los Angeles, Calif. Supersaturating liquids. 1,469,581; Oct. 2.
Breakey, Arnold, East Orange, N. J., and C. F. Pietsch, Malvern, N. Y. Safety razor. 1,469,715; Oct. 2.
Breslavsky, Hyman, Brooklyn, N. Y. Finger ring. Des. 63,070; Oct. 2.
Brightbill, David, Lebanon, Pa. Sausage-stuffing machine. 1,469,377 Oct. 2.
Broch, Albert T., New York, N. Y. Gas heater. 1,469,714; Oct. 2.
Brock, Richard E., Wooster, Ohio, assignor, by mesne assignments, to Mackintosh-Hemphill Company, Pittsburgh, Pa. Continuous tube rolling mill. Re15,692; Oct. 2.
Brooks, J. B., and Company Limited. (See Lawrence, Arthur H., assignor.)
Brown & Bigelow. (See Kristofek, Frank J., assignor.)
Brown, Charles H., Breckenridge, Tex. Fishing tool. 1,469,493; Oct. 2.
Brown, Harry M., New Kensington, Pa. Car coupling. 1,469,355; Oct. 2.
Brown, Julius A., assignor to E. Loomis, Peekskill, N. Y. Stylus mounting for reproducers. 1,469,451; Oct. 2.
Brown, Julius A., assignor to E. Loomis, Peekskill, N. Y. Spring stylus mounting for phonographs. 1,469,452; Oct. 2.
Brunelli, Domenico, Philadelphia, Pa. Acoustic cabinet. Des. 63,071; Oct. 2.
Bryan, Artis C., Syracuse, N. Y. Lever lock. 1,469,406; Oct. 2.
Bryce Brothers Company. (See McCracken, B., and Pirott, assignors.)
Bryden, John A., assignor of one-third to U. R. McCutchen and one-third to J. A. Hall, Springfield, Ill. Liquid-dispensing apparatus. 1,469,617; Oct. 2.
Buck, Porter A., et al. (See Jermin, Frank, assignor.)
Buckler, Carl W., Lexington, Ky. Fireplace heater. 1,469,494; Oct. 2.
Bucknam, Worthy C. (See Buzzaird, R. B., and Bucknam.)
Budd Wheel Company. (See Ragsdale, Earl J. W., assignor.)
Buedingen, Robert, Rochester, N. Y. Container cover. 1,469,618; Oct. 2.
Bunker, Carey E., Oregon, Mo. Umbrella rib and stretcher and attaching means therefor. 1,469,495; Oct. 2.
Burdette, Richard S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Registering thermostat. 1,469,552; Oct. 2.
Burdick, John S., Stratford, Conn. Curtain construction. 1,469,356; Oct. 2.
Buresch, Edward G., assignor to Resistollite Appliance Co., Chicago, Ill. Ignition system. 1,469,582; Oct. 2.
Burger, Martin, assignor of one-half to G. E. Romano, Cleveland, Ohio. Pottery-forming machine. 1,469,378; Oct. 2.
Bushnell, Charles S., Sydney, New South Wales, Australia, assignor to General Railway Signal Company, Gates, N. Y. Automatic train-control system. 1,469,248; Oct. 2.
Butterfield, Fred, & Co. Inc. (See Vandergaw, E. B., and Heinrich, assignors.)
Butts, L. N., et al. (See Kotzebue, Meinhard H., assignor.)
Buzzaird, Raleigh B., Washington, D. C., and W. C. Bucknam, Jersey City, N. J., assignors, by mesne assignments, to Davis Automatic Equipment Corporation, New York, N. Y. Coin-controlled lock. 1,469,553; Oct. 2.
Byers, A. M., Company. (See Aston, James, assignor.)
Byrd, Charlie T., Atlanta, Ga. Ice creeper. 1,469,619; Oct. 2.
Callard, Robert P., Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass-drawing mechanism. 1,469,379; Oct. 2.
Callard, Robert P., Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Drawing continuous sheet glass. 1,469,380; Oct. 2.
Camel Company. (See Dobson, Albert, assignor.)
Cammell Laird & Company Limited, et al. (See Creigh, John L., assignor.)
Campbell, Charles R., Erie, Pa. Lip-pressure-correcting device for wind instruments. 1,469,583; Oct. 2.
Candee, Andrew H., Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,469,210; Oct. 2.
Candee, L., & Company. (See McCrohan, John A., assignor.)
Carroll, Orlando, Catonsville, Md. Transmission lock. 1,469,620; Oct. 2.
Case, Francis M., Cleveland, assignor to Federal Porcelain Company, Carey, Ohio. Tube-forming machine. 1,469,584; Oct. 2.
Case, Mason, Los Angeles, Calif. Doll or statuette. Des. 63,072; Oct. 2.
Cass, Christopher P. (See Adreon, R. E., and Cass.)
Castleman, Frank M., Rotherham, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Raising and lowering coal chutes. 1,469,357; Oct. 2.
Cement-Gun Construction Company. (See Beeby, Frank F., assignor.)
Chase, Leon W., W. R. McGeachin, and J. C. Brand, assignors to Chase Plow Company, Lincoln, Nebr. Two-row lister. 1,469,751; Oct. 2.
Chase, Leon W., W. R. McGeachin, and J. C. Brand, assignors to Chase Plow Company, Lincoln, Nebr. Two-row lister. 1,469,752; Oct. 2.
Chase Plow Company. (See Chase, L. W., McGeachin, and Brand, assignors.)
Chaviara, John N. (See Gill, J. F., and Chaviara.)
Chervin, Solomon, San Francisco, Calif. Window. 1,469,621; Oct. 2.
Christensen, Robert M., Racine, Wis. Radiator core. 1,469,407; Oct. 2.
Christie, Charles H., Butler, Pa. Door for glass-pot furnaces. 1,469,358; Oct. 2.
Christopher, William F., Auburn, Iowa. Folding animal-operating trough. 1,469,496; Oct. 2.
Clark, William N., Fayette, Mo. Automobile extractor. 1,469,249; Oct. 2.
Clerico, Dominick, Yonkers, N. Y. Valve-spring lifter for automobile and other engines. 1,469,453; Oct. 2.
Clough, Lee E. (See Dirkson, J. W., and Clough.)
Cole, Alexander, Lymm, England. Fiber-board and like box. 1,469,622; Oct. 2.
Colombani, Colomban, Bondy, assignor to J. M. A. Darlin, Paris, France. Spring clip. 1,469,623; Oct. 2.
Columbia Graphophone Manufacturing Company. (See Yerkes, Hulbert A., assignor.)
Comstock, George S., jr., Steelton, assignor to Bethlehem Steel Company, Bethlehem, Pa. Apparatus for handling pulverulent material. 1,469,311; Oct. 2.
Conant, Albert B., Newton Center, and L. A. House, Boston, Mass. Fluid-governed electric switch. 1,469,497; Oct. 2.
Connecticut Telephone & Electric Co., The. (See Donle, Harold P., assignor.)
Conrad, Nicholas J., assignor to Schweitzer & Conrad, Chicago, Ill. Switch. 1,469,381; Oct. 2.
Cooper, William H., Seattle, Wash. Apparatus for removing timbers from sawmill carriages. 1,469,498; Oct. 2.
Coulter, Lemuel P., Huntington Park, Calif. Gas burner. 1,469,716; Oct. 2.
Cox, Millard F., Louisville, Ky., assignor to Union Metal Products Company, Chicago, Ill. Release rigging for railway-car couplers. 1,469,292; Oct. 2.
Cramer, Allen D., assignor of one-half to A. E. Cramer, Pleasant Valley, Iowa. Onion-set-distributing machine. 1,469,293; Oct. 2.
Cramer, Arthur E. (See Cramer, Allen D., assignor.)
Cranz, James M., Buffalo, N. Y. Tire tread. Des. 63,073; Oct. 2.
Craw, George R., Fort Wayne, Ind. Service cabinet. 1,469,359; Oct. 2.
Creamer, Dorothy A., et al., executors. (See King, John F.)
Creigh, John L., assignors of one-third to Cammell Laird & Company Limited, and one-third to J. M. Allan, Sheffield, England. Hydraulic press and the like. 1,469,499; Oct. 2.
Crisenberry, Benjamin F., assignor of two-thirds to M. L. White, Indianapolis, Ind. Syringe. 1,469,764; Oct. 2.
Croft, Hiram D. (See Perkins, J. L., Croft, and Sickles.)

Crouse, John L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Spring quill-arm-supporting device. 1,469,211; Oct. 2.
Crowder, Havy Q. R., Chicago, Ill. Drawing sheet and making same. 1,469,554; Oct. 2.
Crowley, Joseph P., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Making sheet glass. 1,469,382; Oct. 2.
Crowley, Joseph P., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method of and apparatus for producing continuous sheet glass. 1,469,383; Oct. 2.
Crown Cork and Seal Company of Baltimore City, The. (See Goebel, George, assignor.)
Crown Cork and Seal Company of Baltimore City, The. (See Huntley, George J., assignor.)
Cullen, James K., assignor to Niles-Bement-Pond Company, New York, N. Y. Clamp and grip chuck. 1,469,360; Oct. 2.
Cumfer, Harry A., Chicago, Ill., assignor, by mesne assignments, of one-half to The Flintkote Company, Boston, Mass. Apparatus for making roofing products. 1,469,555; Oct. 2.
Cunningham, Cornelius F., Canton, Mass. Cap for tire-valve tube. 1,469,250; Oct. 2.
Cutting, Francis R., Oakland, Calif. Arch supporter. 1,469,717; Oct. 2.
Cygnet Mfg. Co., Inc. (See Rahling, Henry D., assignor.)
Daman, Arthur C., Denver, Colo. Drier. 1,469,294; Oct. 2.
Damrow Brothers Company. (See Damrow, Edward C., assignor.)
Damrow, Edward C., assignor to Damrow Brothers Company, Fond du Lac, Wis. Manufacture of brick cheese. 1,469,251; Oct. 2.
Damrow, Edward C., assignor to Damrow Brothers Company, Fond du Lac, Wis. Continuous cheese press. 1,469,252; Oct. 2.
Danley, James B., St. Johns, Mich. Battery poultry coop. 1,469,384; Oct. 2.
Danz, Eugene P., St. Paul, Minn. Earring. Des. 63,098; Oct. 2.
Darlin, Jean M. A. (See Colombani, Colomban, assignor.)
Davis Automatic Equipment Corporation. (See Buzzaird, R. B., and Bucknam, assignors.)
Davis, Elwood R., West Haven, assignor to Winchester Repeating Arms Company, New Haven, Conn. Making bell guides. 1,469,296; Oct. 2.
Davis, Luther E., Syracuse, N. Y. Radiocabinet. 63,099; Oct. 2.
Dayton Steel Foundry Company, The. (See Walther, George, assignor.)
Dean, Mark, Boonville, N. Y. Vise. 1,469,454; Oct. 2.
Dean, Michael, Webster, Pa. Antiskid device. 1,469,312; Oct. 2.
Deardorff, Ralph W., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Carrier telegraph circuits. 1,469,253; Oct. 2.
Deardorff, Ralph W., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Carrier telegraph circuits. 1,469,254; Oct. 2.
Decorative Arts League. (See Muller, John, assignor.)
Decorative Arts League. (See Muller, O. P., and Popoff, assignors.)
Deetrick, James W., executor. (See Hill, Benjamin.)
De Long, Charles E., Springfield, Ill. Truing jewel settings. 1,469,500; Oct. 2.
De los Monteros, Jorge Espinosa, Madrid, Spain. Leak-closing device for ships. 1,469,624; Oct. 2.
De Pew, Clarence E., Springfield, Ill. Collapsible silent-bidding auction easel. 1,469,212; Oct. 2.
Detroit Torch and Manufacturing Company. (See Horn, Edward J., assignor.)
Dirkson, John W., Kent, and L. E. Clough, Akron, Ohio, assignors to The Mason Tire and Rubber Company. Stitcher wheel and guard. 1,469,753; Oct. 2.
Dirkson, John W., Kent, and L. E. Clough, Akron, Ohio, assignors to The Mason Tire and Rubber Company. Core chuck. 1,469,754; Oct. 2.
Dobson, Albert, St. Lambert, Quebec, Canada, assignor, by mesne assignments, to Camel Company, Chicago, Ill. Combination door fastener. 1,469,719; Oct. 2.
Dodge, Carrie E., administratrix. (See Dodge, Horace L.)
Dodge, Horace L., deceased, Buffalo, N. Y.; C. E. Dodge, administratrix. Dishwashing machine. 1,469,625; Oct. 2.
Dodge, Lyman E., and N. D. Preston, Rochester, assignors to General Railway Signal Company, Gates, N. Y. Automatic train-control system. 1,469,408; Oct. 2.
Dollin, Edgar N., Syracuse, N. Y. Fire extinguisher. 1,469,501; Oct. 2.
Doman, Lewis B., East Syracuse, N. Y. Air-cooling system for internal-combustion engines. 1,469,409; Oct. 2.
Donle, Harold P., assignor to The Connecticut Telephone & Electric Co. Inc., Meriden, Conn. Adapter. 1,469,295; Oct. 2.
Dorsey, Farnum F., assignor to North East Electric Company, Rochester, N. Y. Brush rigging. 1,469,720; Oct. 2.
Dorsey, John W., Winnipeg, Manitoba, Canada. Electric heating system. 1,469,626; Oct. 2.
Dostal, Leo, Kladno, Czechoslovakia. Roll of rolling mills. 1,469,410; Oct. 2.
Douglass, William E., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Constant-current transformer. 1,469,213; Oct. 2.
Draper Corporation. (See Stimpson, Edward S., assignor.)
Draper Corporation. (See Stimpson, Wallace I., assignor.)
Dreyfus, William, assignor to West Disinfecting Company, New York, N. Y. Formaldehyde fumigator. 1,469,214; Oct. 2.
Du Bois, Louis T. (See Nelson, A., and Du Bois.)
Dubyk, Theodor, Passaic, N. J. Rack. 1,469,455; Oct. 2.
Duff Patents Company Incorporated. (See Treat, Francis H., assignor.)
Duff, Thomas F., assignor of one-third to M. Tonn, Spokane, Wash. Line-casting machine. 1,469,361; Oct. 2.
Duffner, Leonard J., Lynchburg, Va. Sanding apparatus for vehicles. 1,469,627; Oct. 2.
Duncan Electric Manufacturing Company. (See Harris, Jesse, assignor.)
Dundas, Roy C., Los Angeles, and R. T. Howes, Santa Maria, Calif., assignors to S. E. Company. Treatment of oil shale. 1,469,628; Oct. 2.
Dwight & Lloyd Sintering Company. (See Lloyd, Richard L., assignor.)
Dyer, Newell V., Holbrook, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method of and apparatus for finishing the edges of sheet material. 1,469,255; Oct. 2.
Eddy, Everett H. (See Eddy, Le Roy C. and E. H.)
Eddy, Le Roy C. and E. H., Warren, Pa. Ironing-board-supporting means. 1,469,629; Oct. 2.
Eddy, Nelson M., et al. (See Jermin, Frank, assignor.)
Edlund, Henry J., Burlington, Vt., assignor, by mesne assignments, to The Fuller Brush Company, Hartford, Conn. Broom. Des. 63,074; Oct. 2.
Edwards, Albert, Brooklyn, N. Y. Ironing board. 1,469,456; Oct. 2.
Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Handling hot-metal strip and apparatus therefor. 1,469,721; Oct. 2.
Egg, Harold, Billingshurst, England. Device for producing relative translational movement. 1,469,630; Oct. 2.
Ehrlich, Albert H., St. Joseph, Mo. Refrigerator or cold-storage room. 1,469,631; Oct. 2.
Elbertz, Frank V., Kokomo, Ind. Traction-wheel drive gearing. 1,469,433; Oct. 2.
Elliott, Patrick J., and E. L. Bonamy, Newcastle, Wash. Mine-car coupler. 1,469,434; Oct. 2.
Ellison, Forrest L., Exeter, N. H. Turned shoe. 1,469,256; Oct. 2.
Ericson, Carl E. and J. M., El Campo, Tex. Type cleaner for typewriting machines. 1,469,632; Oct. 2.
Ericson, John M. (See Ericson, Carl E. and J. M.)
Ervin, James M., Detroit, Mich. Sheet-metal shovel. 1,469,215; Oct. 2.
Escoto, Carlos J., Habana, Cuba. Protective cover for automobile tires. 1,469,633; Oct. 2.
Eversman, Lewis W., Julesburg, Colo. Automatic beveling machine. 1,469,502; Oct. 2.
Fanslow, Benjamin O., assignor to New Era Mfg. Company, New York, N. Y. Check protector. 1,469,634; Oct. 2.
Fardy, John A., Brooklyn, N. Y. Gas meter. 1,469,216; Oct. 2.
Farkas, Frank F. (See Snyder, W. H., and Farkas.)
Faultless Caster Company. (See Smithfield, E. A., and Noelting, assignors.)
Feasler, George J., Baltimore, Md., assignor to Wright's Automatic Tobacco Packing Machine Company, Durham, N. C. Tobacco-measuring machine. 1,469,635; Oct. 2.
Federal Porcelain Company. (See Case, Francis M., assignor.)
Feinberg, Maurice M., New York, N. Y. Sign. Des. 63,100; Oct. 2.
Ferguson, Clayton C., Jersey City, N. J. Signal device. 1,469,636; Oct. 2.
Firestone Tire and Rubber Company, The. (See MacDonald, Frank J., assignor.)
Firestone Tire and Rubber Company, The. (See Stevens, Horace D., assignor.)
Fischer, George J., Long Island City, N. Y. Exposure attachment for cameras. 1,469,435; Oct. 2.
Fleming, Marvin G., Kansas City, Kans. Type cabinet. 1,469,385; Oct. 2.
Fletcher, Harvey, assignor to Western Electric Company, Incorporated, New York, N. Y. Testing system. 1,469,271; Oct. 2.
Flint, William H., Birmingham, Ala. Calking machine for pipe joints. 1,469,297; Oct. 2.
Flintkote Company, The. (See Cumfer, Harry A., assignor.)
Florey, Tilghman J., Washington, assignor to B. O. T. Mfg. Co., Trenton, N. J. Closet-seat bumper. 1,469,503; Oct. 2.
Fornia, Milton G., Carbonado, Wash. Baby walker or exerciser. 1,469,436; Oct. 2.
Forssman, Villehad H., Cologne, Germany. Treatment of wood material and the product thereof. 1,469,362; Oct. 2.

Forster, Hugh C., assignor of one-half to A. Pucker, Kansas City, Mo. Invisible belt coupling. 1,469,257; Oct. 2.
Franco, Ernest, Philadelphia, Pa. Pastry shell. Des. 63,075; Oct. 2.
Franks, Charles, et al. (See Bahr, August T. J., assignor.)
Fredrickson, Fred, Chicago, Ill. Collar-button attachment or guard. 1,469,437; Oct. 2.
Fuller Brush Company. (See Edlund, Henry J., assignor.)
Galbraith, David G., Mineral Wells, Tex. Clamp for holding files, bundles, and such like. 1,469,299; Oct. 2.
Galbraith, David G., Mineral Wells, Tex. Tie fastener. 1,469,298; Oct. 2.
Gallagher, James J., et al. (See Bahr, August T. J., assignor.)
Ga Nung, Howard D. (See Smiley, W. E., and Ga Nung.)
Garrison, Orlando, Dayton, Ohio. Gear-grinding machine. 1,469,504; Oct. 2.
Gearhart, Roy E., O. D. Stewart and L. A. Heckel, Kansas City, Mo. Vacuum-clothes-cleaner casing. Des. 63,076; Oct. 2.
Geistert, Albert G., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Clutch and brake lever supporting bracket. 1,469,258; Oct. 2.
General Motors Company. (See Short, Charles R., assignor.)
General Motors Corporation. (See Bower, Ferdinand A., assignor.)
General Motors Corporation. (See Geistert, Albert G., assignor.)
General Motors Corporation. (See Krotz, Alvaro S., assignor.)
General Motors Corporation. (See Lambert, Brazil E., assignor.)
General Motors Corporation. (See Minch, Walter B., assignor.)
General Railway Signal Company. (See Bushnell, Charles S., assignor.)
General Railway Signal Company. (See Dodge, L. E., and Preston, assignors.)
General Railway Signal Company. (See Richmond, Carl A., assignor.)
Gentine, Howard I., assignor to American Atomized Fuel Company, Shelbyville, Ill. Furnace. 1,469,313; Oct. 2.
Gershovitz, Barnett, Canton, Ohio. Dump wagon. 1,469,637; Oct. 2.
Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches. (See Mayer, E., and Leib, assignors.)
Gibson, Charles E., New York, N. Y. Doll. Des. 63,077; Oct. 2.
Giddings, William D., Fort Pierre, S. Dak. Drawbar for vehicles. 1,469,505; Oct. 2.
Gill, James F., and J. N. Chaviara, Liverpool, England. Electrical apparatus for the local and distant repetition of movements. 1,469,438; Oct. 2.
Gilliam, Charles E., Centralia, Mo. Automobile pulling device. 1,469,506; Oct. 2.
Gillig, Chester and L., San Francisco, Calif. Vehicle top. 1,469,331; Oct. 2.
Gillig, Leo. (See Gillig, Chester and L.)
Glaeser, Walter, Brooklyn, assignor to Potash Extraction Corporation, New York, N. Y. Extraction of potassium compounds. 1,469,507; Oct. 2.
Globe Automatic Sprinkler Company. (See Rowley, Arthur C., assignor.)
Goebel, George, assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Machine for feeding crowns and the like. 1,469,556; Oct. 2.
Goebel, George, assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Crown feeding and assembling apparatus. 1,469,557; Oct. 2.
Goldsmith, Gustave M., and C. P. Bartels, assignors to The Mosler Safe Company, Hamilton, Ohio. Pressure system for safe or vault doors and the like. 1,469,638; Oct. 2.
Goldsmith, Gustave M., and C. P. Bartels, assignors to The Mosler Safe Company, Hamilton, Ohio. Pressure system for safe or vault doors and the like. 1,469,639; Oct. 2.
Good, Robert, Washington, Pa. Manufacture of glassware. 1,469,457; Oct. 2.
Goodman Manufacturing Company. (See Bigelow, Ray S., assignor.)
Goodrich, B. F., Company, The. (See Robertson, Samuel B., assignor.)
Goodrich, B. F., Company, The. (See Tew, James D., assignor.)
Goodwin, Angier L., executor. (See Tozier, Charles C.)
Goodyear Tire & Rubber Company. (See Burdette, Richard S., assignor.)
Gordon, William R., assignor to North East Electric Company, Rochester, N. Y. Pneumatic press follower. 1,469,722; Oct. 2.
Gosselin, Alphonse J., Rochester, N. Y. Broiler. 1,469,508; Oct. 2.
Gotzhein, Joseph, Brooklyn, N. Y. Nut skinning. 1,469,332; Oct. 2.
Graff, Oscar, Philadelphia, Pa. Head gauge for hatters. 1,469,640; Oct. 2.
Grayson, J. H., Manufacturing Company, The. (See Grayson, John H., assignor.)
Grayson, John H., assignor to The J. H. Grayson Manufacturing Company, Athens, Ohio. Gas heater. 1,469,509; Oct. 2.
Greenwood, Wallace W., assignor to Norton Company, Worcester, Mass. Segmental abrasive wheel. 1,469,723; Oct. 2.
Grimes, Thaddeus S., assignor to S. G. Simons, Columbus, Ga. Nut-cracking machine. 1,469,641; Oct. 2.
Gruhn, Adolph, Macon, Ga. Roller-rubbing washer. 1,469,314; Oct. 2.
Gunlocke Chair Co. (See Gunlocke, W. H., and Pike, assignors.)
Gunlocke, William H., Wayland, N. Y., and G. J. Pike, Grand Rapids, Mich., assignors to The W. H. Gunlocke Chair Co., Wayland, N. Y. Chair. Des. 63,078; Oct. 2.
Hadaway, William S., jr., New Rochelle, N. Y. Kinetic heat insulation. 1,469,458; Oct. 2.
Hale, Joshua B., assignor to Textile Engineering Company, Providence, R. I. Braiding-machine body structure. 1,469,217; Oct. 2.
Hall, James A., et al. (See Bryden, John A., assignor.)
Hall, Samuel N. (See Layne, M. E., and Hall.)
Halladay, Lewis P., Decatur, Ill. Bumper. 1,469,591; Oct. 2.
Halladay, Lewis P., Decatur, Ill. Bumper. 1,469,592; Oct. 2.
Hamilton, Baxter P., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Carrier telegraph circuits. 1,469,259; Oct. 2.
Hamilton, Baxter P., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Carrier telegraph circuits. 1,469,260; Oct. 2.
Hammond, John H., jr. (See Trenor, Albert D., assignor.)
Hanke, Laurence F., and W. J. Stinson, Chicago, Ill. Game. 1,469,301; Oct. 2.
Hanney, Angus F., Chicago, Ill. Laundry appliance. 1,469,300; Oct. 2.
Hansard, Hugh H., Montreal, Quebec, Canada. Wrist support. 1,469,315; Oct. 2.
Happensack, Edward F., assignor to The O. P. Schriver Company, Cincinnati, Ohio. Mill and press. 1,469,724; Oct. 2.
Harley-Davidson Motor Co. (See Harley, William S., assignor.)
Harley, William S., assignor to Harley-Davidson Motor Co., Milwaukee, Wis. Rivet remover. 1,469,594; Oct. 2.
Harriman National Bank of the City of New York, trustee. (See Vassell, Anthony, assignor.)
Harrington, Clinton O., assignor to Aldobilt Company, Chicago, Ill. Multiple bond for signal-service track-circuit rails. 1,469,302; Oct. 2.
Harris, Jesse, assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Induction wattmeter. 1,469,558; Oct. 2.
Hartshorn, Willis N., assignor to Racine Confectioners' Machinery Company, Racine, Wis. Candy-making machine. 1,469,316; Oct. 2.
Hast, Alfred. (See Olson, A., and Hast.)
Hatashita, Sezo, Detroit, Mich. Rear axle and wheel. 1,469,593; Oct. 2.
Hatfield, Raymond A., et al. (See Bahr, August T. J., assignor.)
Hathaway, Edgar F., Wellesley, assignor to Shawmut Engineering Company, Dorchester, Mass. Grinding mechanism for the shear blades of tuft-fabric looms. 1,469,755; Oct. 2.
Haulbrook, Robert W., Maysville, Ga. Adjustable lint and brush board. 1,469,413; Oct. 2.
Hauser & Weil. (See Hauser, Leopold, assignor.)
Hauser, Leopold, assignor to L. Hauser and S. Weil, New York, N. Y., Copartners doing business as Hauser & Weil. Hand bag. 1,469,476; Oct. 2.
Havener, Arthur R., Wayland, Mass., assignor to Judson L. Thomson Mfg. Co. Machine for punching and riveting sheet material. 1,469,261; Oct. 2.
Hayes Manufacturing Company. (See Richard, Joseph O., assignor.)
Haynes, Pierre E., Buffalo, N. Y., assignor to The Linde Air Products Company. Apparatus for transporting gases. 1,469,756; Oct. 2.
Hayward, Charles O., Ravenna, Mich. Holder device. 1,469,317; Oct. 2.
Heckel, Louis A. (See Gearhart, R. E., Stewart, and Heckel.)
Heiberg, Fred, et al. (See Bahr, August T. J., assignor.)
Heineke, John C., Springfield, Ill. Foot accelerator. 1,469,559; Oct. 2.
Heinemann, George. (See Remsen, William H., assignor.)
Heinrich, Jules. (See Vandergaw, E. B., and Heinrich.)
Helenek, George J., New York, N. Y. Display stand. 1,469,725; Oct. 2.
Henry Trust, Park Ridge, N. J., and F. M. Ashley, Brooklyn, N. Y.; said Ashley assignor to J. Trust, Park Ridge, N. J.; J. Trust, administratrix. Shredding machine. 1,469,369; Oct. 2.
Henry Trust, Park Ridge, N. J., and F. M. Ashley, Brooklyn, N. Y.; said Ashley assignor to J. Trust, Park Ridge, N. J.; J. Trust, administratrix. Mixing and beating machine. 1,469,370; Oct. 2.
Herbein, George W., San Francisco, Calif. Printing ink. 1,469,414; Oct. 2.
Herman Tire Building Machine Company, The. (See Hermann, Walter H., assignor.)
Hermann, Walter H., Lancaster, assignor to The Herman Tire Building Machine Company, Columbus, Ohio. Tire-building machine (horizontal adjustment). 1,469,272; Oct. 2.

Hersberg, Walter F., Chicago, Ill. Photographic development gauge. 1,469,415; Oct. 2.
Hess, Arthur, and S. L. Marsh, Los Angeles, Calif. Floor drain. 1,469,303; Oct. 2.
Hewel, Frank B., Akron, Ohio. Truck hoist. 1,469,642; Oct. 2.
Hick, Harry J., assignor to The Hykon Manufacturing Company, Alliance, Ohio. Battery clamp. 1,469,595; Oct. 2.
Hill, Benjamin, deceased, Cleveland, Ohio, J. W. Deetrick, executor. Frying pan. 1,469,318; Oct. 2.
Hochenauer, Joseph, Pueblo, Colo. Cutter for forage and grain grinders. 1,469,510; Oct. 2.
Hodgkins, Albert A., Bridgeport, Conn., assignor to The American Fabrics Company. Featherstitch braid or similar article. Des. 63,079; Oct. 2.
Hofer, Hans F., Nagoya, Japan. Wasteless skein. 1,469,416; Oct. 2.
Hofmann, Adolph W. (See Stearns, A. L., and Hofmann.)
Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Ribbon spool for typewriters. 1,469,386; Oct. 2.
Holden, Joseph B., Syracuse, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,469,477; Oct. 2.
Hoodwin, J. W., Company. (See Hoodwin, Joseph W., assignor.)
Hoodwin, Joseph W., assignor to J. W. Hoodwin Company, Chicago, Ill. Tray. 1,469,596; Oct. 2.
Hooper, Charles L., Rochester, assignor to Vacuum Oil Company, New York, N. Y. Filling machine. 1,469,218; Oct. 2.
Hoover Company, The. (See Hoover, Howard E., assignor.)
Hoover, Howard E., Chicago, Ill., assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio. Suction-cleaner handle. 1,469,597; Oct. 2.
Horn, Edward J., Royal Oak, assignor to Detroit Torch and Manufacturing Company, Detroit, Mich. Fire pot. 1,469,598; Oct. 2.
Hoss, Wilhelm. (See Möller, E., and Hoss.)
House, Leonard A. (See Conant, A. B., and House.)
Hovey, William L., Flint, Mich. Combined brush and polisher. 1,469,643; Oct. 2.
Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Candle-plate body for lighting fixtures. Des. 63,101; Oct. 2.
Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Spindle for lighting fixtures. Des. 63,102; Oct. 2.
Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Ceiling plate for lighting fixtures. Des. 63,103; Oct. 2.
Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Plate for lighting fixtures. Des. 63,104; Oct. 2.
Howes, Raymond T. (See Dundas, R. C., and Howes.)
Hubbard, Burtt J., assignor to Automotive Accessories, Inc., Kokomo, Ind. Windshield-wing construction. 1,469,387; Oct. 2.
Hubbell, Harvey, Incorporated. (See Newton, William J., assignor.)
Huebner, Ferdinand P., Cameron, Tex. Hydraulic cotton press. 1,469,511; Oct. 2.
Hughes, Frederick G., assignor to The New Departure Manufacturing Company, Bristol, Conn. Shaft coupling. 1,369,304; Oct. 2.
Huntley, George J., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Packaging apparatus. 1,469,560; Oct. 2.
Hutchison, C. Edwin. (See Underwood, Henry V., assignor.)
Hutchison, Harley E., Hotchkiss, Colo. Container. 1,469,512; Oct. 2.
Hutchison, Miller R., West Orange, N. J. Signal recording and transcribing method and apparatus. 1,469,561; Oct. 2.
Hykon Manufacturing Company, The. (See Hick, Harry J., assignor.)
Hymel, Laeonce F., New Orleans, La. Permutation switch. 1,469,651; Oct. 2.
Igoe Brothers. (See Tubbs, Earl D., assignor.)
Igranic Electric Company Limited. (See Wright, Stanley R., assignor.)
Industrial Research Corporation. (See Myers, Don D., assignor.)
Ingersoll, Homer H., St. Louis, Mo. Upholstering machine. 1,469,513; Oct. 2.
International Motor Company. (See Manville, Keith R., assignor.)
International Precipitation Company. (See Möller, E., and Hoss, assignors.)
Isidor, Joseph S., Newark, N. J., assignor to The R. Neumann Hardware Co. Bag-frame fastener. 1,469,478; Oct. 2.
Jaegel, Frans X. (See Reim, Reinhold J., assignor.)
James, William E., assignor of one-third to N. B. Lee and one-third to L. Walker, Beards Fork, W. Va. Safety device. 1,469,652; Oct. 2.
Jankus, Jack C., assignor to Woman's Institute of Domestic Arts & Sciences, Inc., Scranton, Pa. Dress or garment form. 1,469,653; Oct. 2.
Jermin, Frank, assignor of one-third to himself, one-third to P. A. Buck, and one-third to N. M. Eddy, Alpena, Mich. Thermostatic switching device for electric irons. 1,469,727; Oct. 2.
Jeschke, Bruno, Oakland, Calif. Arch support. 1,469,417; Oct. 2.
Johnson, John E., and C. H. Oslund, assignors to The O & J Machine Company, Worcester, Mass. Neck-wiping device. 1,469,599; Oct. 2.
Johnston, Howard H., Edgewood, and D. C. Peabody, Turtle Creek, Pa., assignors to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,469,219; Oct. 2.
Juergensen, Peter, Des Moines, Iowa. Lemon squeezer. 1,469,514; Oct. 2.
Kammerdiner, James A., Montebello, Calif. Rotary jar. 1,469,305; Oct. 2.
Karitzky, John. (See Pleister, H. W., and Karitzky.)
Karitzky, John, Garwood, N. J., assignor to H. B. Newhall, executor of H. B. Newhall, sr., deceased. Bolt anchor. 1,469,668; Oct. 2.
Kasdan, Nathan, New York, and D. Pollack, Brooklyn, assignors to Majestic Machine & Tool Co., Inc., New York, N. Y. Combination vanity article. 1,469,562; Oct. 2.
Kauffman, Elias A., Chicago, Ill. Pliers. 1,469,306; Oct. 2.
Kauser, Elsie B., administratrix. (See Kauser, George W.)
Kauser, George W., deceased, Chicago, Ill., E. B. Kauser, administratrix. Camera. 1,469,273; Oct. 2.
Keck, Max, Crescent Springs, Ky. Machine for rolling metal. 1,469,726; Oct. 2.
Kehoe, William E., San Francisco, Calif. Frame or easel for displaying cards, pictures, and like articles. Des. 63,080; Oct. 2.
Kellogg Switchboard and Supply Company. (See Bohlman, Ernest A., assignor.)
Kelly Springfield Tire Company. (See Blaser, George U., assignor.)
Kelly, William M., Jersey City, N. J. Printing press. 1,469,515; Oct. 2.
Keltie, George R., Woonsocket, R. I., assignor, by mesne assignments to American Wringer Company, Inc. Sandpapering roll. 1,469,307; Oct. 2.
Kemp, Robert, Washington, D. C., assignor to Westinghouse Electric & Manufacturing Company. Structural element and making the same. 1,469,220; Oct. 2.
Kemper, Thomas M., Crecy, Tex. Picture frame. Des. 63,081; Oct. 2.
Kent, Thomas F., New York, N. Y. Burner. 1,469,479; Oct. 2.
Kershaw, Edwin T., Denver, Colo. Internal-combustion engine. 1,469,319; Oct. 2.
King, Clifford G., Providence, R. I. Display card. Des. 63,105; Oct. 2.
King, John F., deceased, by M. B. King, executor, and D. A. Creamer, executrix, Kalamazoo, Mich. Means for washing and cleaning golf balls. 1,469,274; Oct. 2.
King, Merrill B., et al., executors. (See King, John F.)
Kirchgessner, Joseph A., Buffalo, N. Y. Holding device for embroidery work. 1,469,516; Oct. 2.
Kirschbraun, Lester, Evanston, Ill. Making emulsified compositions. 1,469,563; Oct. 2.
Kirschbraun, Lester. (See Rahr, C. E., and Kirschbraun.)
Kobbé, William H., New York, N. Y., assignor to Texas Gulf Sulphur Company, Bay City, Tex. Burning sulphur. 1,469,644; Oct. 2.
Kobbé, William H., New York, N. Y., assignor to Texas Gulf Sulphur Company, Bay City, Tex. Sulphur burner. 1,469,645; Oct. 2.
Kokomo Automotive Mfg. Co. (See Albright, Neil T., assignor.)
Koppers Company, The. (See Van Ackeren, Joseph, assignor.)
Kotzebue, Meinhard H., assignor of one-half to G. S. Berry and one-half to L. N. Butts, Tulsa, Okla. Electric clipper. 1,469,654; Oct. 2.
Kowitz, Herman H. (See Sinkula, F. J., and Kowitz.)
Kramer, Andrew A., Kansas City, Mo. Tank roof. 1,469,321; Oct. 2.
Kramer, Andrew A., Kansas City, Mo. Vehicle body. 1,469,320; Oct. 2.
Krisher, Bartlett, North Manchester, Ind. Clothes hamper. Des. 63,106; Oct. 2.
Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, Minn. Cream separator. 1,469,221; Oct. 2.
Kronenbitter, Frank E., Maywood, Ill. Grease gun. 1,469,308; Oct. 2.
Krotz, Alvaro S., Janesville, Wis., assignor to General Motors Corporation, Detroit, Mich. Tractor cultivator attachment. 1,469,262; Oct. 2.
Kubler, Johann, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Apparatus for operating direct-current three-main supply circuits by means of metal vapor rectifiers. 1,469,418; Oct. 2.
Kyle, George S., deceased; S. E. Kyle, Chambersburg, Pa., administratrix. Planisphere. 1,469,664; Oct. 2.
Kyle, Sarah E., administratrix. (See Kyle, George S.)
La Chapelle, Fred N., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting shoes. 1,469,222; Oct. 2.
Lacy, John H., Boston, Mass. Safety razor. 1,469,309; Oct. 2.

Ladd, James B., Ardmore, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Casting-ladle mechanism. 1,469,223; Oct. 2.

Ladd, James B., Ardmore, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Casting-ladle mechanism. 1,469,224; Oct. 2.

Ladd, James B., Ardmore, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Casting-ladle mechanism. 1,469,225; Oct. 2.

Laidlaw, James D., Leith, Edinburgh, Scotland. Machine for cutting or breaking down masses of pulverulent material, such as artificial manure. 1,469,718; Oct. 2.

Lambert, Brazil E., Flint, assignor to General Motors Corporation, Detroit, Mich. Upholstery for seat backs. 1,469,263; Oct. 2.

Langhammer, Paul, assignor to Package Machinery Company, Springfield, Mass. Precision lathe. 1,469,226; Oct. 2.

Langley, Ilma G. and W. S., Youngstown, Ohio. Floss ring. 1,469,363; Oct. 2.

Langley, William S. (See Langley, Ilma G. and W. S.)

Lawrence, Arthur H., assignor to J. B. Brooks and Company Limited, Birmingham, England. Cycle, motor-cycle, and analogous saddles. 1,469,227; Oct. 2.

Layne, Mahlon E., and S. N. Hall, Los Angeles, Calif.; said Hall assignor to said Layne. Pump mechanism. 1,469,419; Oct. 2.

Leak, Edward C., Reno, Nev. Brush grubber and leveler. 1,469,517; Oct. 2.

Lee, Nathaniel B., et al. (See James, William E., assignor.)

Leech, Abner Y., jr., Washington, D. C. Firing mechanism. 1,469,663; Oct. 2.

Leib, August. (See Mayer, E., and Leib.)

Leibing, William E., and L. G. Taggart, Oakland, Calif. Manufacturing excelsior pads. 1,469,420; Oct. 2.

Leightham, Edward J., Conshohocken, Pa. Water-level signal. 1,469,518; Oct. 2.

Leiper, John, assignor to New York Mills Corporation, New York Mills, N. Y. Textile fabric. Des. 63,082; Oct. 2.

Lejeune, Charles, Woluwe-St. Lambert, near Brussels, assignor to J. Lejeune, Brussels, Belgium. Control valve. 1,469,228; Oct. 2.

Lejeune, Jules. (See Lejeune, Charles, assignor.)

Lenz, Frederick J., Minneapolis, Minn. Valve-casing cap. 1,469,421; Oct. 2.

Leopold, George O., assignor to North Bro's M'f'g Co., Philadelphia, Pa. Socket wrench. 1,469,662; Oct. 2.

Levy, William P., Salinas, Calif. Tensioning device for cloth-folding machines. 1,469,728; Oct. 2.

Lewis, Thomas A. (See Powel, Henry C., assignor.)

Libbey-Owens Sheet Glass Company. (See Callard, Robert P., assignor.)

Libbey-Owens Sheet Glass Company, The. (See Crowley, Joseph P., assignor.)

Lignite Pressed Steel Coal Company, The. (See Neumaier, John E., assignor.)

Lile, Adiel O., Corbin, Kans. Coupling. 1,469,671; Oct. 2.

Lilly Dental Products Company. (See Lilly, Oswell W., assignor.)

Lilly, Oswell W., assignor to Lilly Dental Products Company, Welch, W. Va. Compound for treating Vincent's stomatitis. 1,469,322; Oct. 2.

Linde Air Products Company, The. (See Haynes, Pierre E., assignor.)

Lindhorst, George H. W., Grace, Mont. Tire. 1,469,670; Oct. 2.

Lister, John T., Wellington, Ohio. Hose. 1,469,519; Oct. 2.

Liversidge, Horace P., Bala, Pa. Fuse-box construction. 1,469,439; Oct. 2.

Lloyd, Richard L., assignor to Dwight & Lloyd Sintering Company, New York, N. Y. Cleaning device for ore-sintering machines. 1,469,520; Oct. 2.

Lloyd, Richard L., assignor to Dwight & Lloyd Sintering Company, New York, N. Y. Sinter-machine drive mechanism. 1,469,521; Oct. 2.

Lockwood, Lee W., Minneapolis, Minn. Timer extension. 1,469,440; Oct. 2.

Longo, Joseph, assignor of one-half to P. Luongo, Cannonsburg, Pa. Plate-holding frame for bosh. 1,469,323; Oct. 2.

Loomis, Ernest. (See Brown, Julius A., assignor.)

Lovejoy, Fredrick B. (See Rittmeyer, L. C., and Lovejoy.)

Lovejoy, Ralph M., Meredith, N. H. Frame for vehicles. 1,469,310; Oct. 2.

Lower, Nathan M. (See Osborne, L. E., and Lower.)

Löbeck, Hilding, Herserud, Sweden. Regenerative braking system for electrically-driven vehicles. 1,469,264; Oct. 2.

Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Stahl, Karl, assignor.)

Lukens, Gabriel L., Decatur, assignor to J. Moister, De Land, Ill. Steering-wheel lock. 1,469,655; Oct. 2.

Luongo, Pasquale. (See Longo, Joseph, assignor.)

Luscher, Oscar, New London, Conn. Cloth-trimming device. 1,469,422; Oct. 2.

Lutz, Martin H., jr., Nelsonville, Ohio. Piston for internal-combustion engines. 1,469,656; Oct. 2.

McArthur, Emmett A., Rodeo, Calif. Vanity case. 1,469,524; Oct. 2.

McAvoy, John A., Chicago, Ill., assignor, by mesne assignments, to Stewart Manufacturing Corporation, Wilmington, Del. Auto window frame. 1,469,229; Oct. 2.

McBee Binder Company, The. (See McBee, Charles F., assignor.)

McBee, Charles F., assignor to The McBee Binder Company, Athens, Ohio. Locking device for loose-leaf files or binders. 1,469,388; Oct. 2.

McCoy, Elijah, assignor of one-half to G. W. Moulden, Detroit, Mich. Vehicle wheel tire. Des. 63,107; Oct. 2.

McCracken, Berel, and C. Pirott, assignors to Bryce Brothers Company, Mount Pleasant, Pa. Glass. Des. 63,108; Oct. 2.

McCrohan, John A., assignor to L. Candee & Company, New Haven, Conn. Calender. 1,469,658; Oct. 2.

McCune, Joseph C., Orange, N. J., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure-brake device. 1,469,585; Oct. 2.

McCutchen, Uriah R., et al. (See Bryden, John A., assignor.)

McFadden, Glenn E., Lakewood, Ohio, assignor to Alfred Vester Sons, Inc., Providence, R. I. Top for pan for lighting fixtures. Des. 63,109; Oct. 2.

McGarvey, Virginia M., Brunswick, Ga. Reversible cushion. 1,469,523; Oct. 2.

McGeachin, William R. (See Chase, L. W., McGeachin, and Brand.)

McGraw, Thomas H., jr., Oakmont, Pa. Flow-controlling means for steam boilers. 1,469,389; Oct. 2.

McGregor, Alexander G., Warren, Ariz. Apparatus for charging reverberatory furnaces. 1,469,327; Oct. 2.

McGuire, William G., Hollywood, Calif. Window-sash stop. 1,469,659; Oct. 2.

McKeraban, George, Pittsburgh, Pa. Jet-operated air compressor. 1,469,364; Oct. 2.

McQuaid, John J., Brooklyn, and N. W. Samuels, New York, N. Y. End-thrust ball bearing. 1,469,424; Oct. 2.

Maccarone, Florentino, Rochester, N. Y. Heel attachment for shoes. 1,469,324; Oct. 2.

MacDonald, Frank J., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Stock-cutting apparatus. 1,469,325; Oct. 2.

MacKaye, James, Cambridge, Mass. Centrifugal separating apparatus. 1,469,230; Oct. 2.

MacKaye, James, Cambridge, Mass. Centrifugal separating apparatus. 1,469,522; Oct. 2.

MacKenzie, George A., Bay City, Mich. Downdraft furnace. 1,469,600; Oct. 2.

Mackintosh-Hemphill Company. (See Brock, Richard E., assignor.)

Magwood, John C. P., London, England. Apparatus for playing race games. 1,469,657; Oct. 2.

Mahr, Julius A., assignor to Mahr Manufacturing Company, Minneapolis, Minn. Liquid and gaseous fuel burner. 1,469,326; Oct. 2.

Mahr Manufacturing Company. (See Mahr, Julius A., assignor.)

Majestic Machine & Tool Co. (See Kasdan, N., and Pollack, assignors.)

Manchester, John, North Loup, Nebr. Poultry perch. 1,469,441; Oct. 2.

Manville, Keith R., Brooklyn, assignor to International Motor Company, New York, N. Y. Rocker-arm mounting for internal-combustion engines. 1,469,480; Oct. 2.

Marbury, Ralph E., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bearing for coil regulators. 1,469,231; Oct. 2.

Marotta, Gabriel, assignor of one-half to J. Marotta, Seattle, Wash. Friction clutch. 1,469,564; Oct. 2.

Marotta, John. (See Marotta, Gabriel, assignor.)

Marsh, John H., Swinton, Manchester, England. Yarn clearer and cleaner. 1,469,423; Oct. 2.

Marsh, Samuel L. (See Hess, A., and Marsh.)

Mason Tire and Rubber Company, The. (See Dirkson, J. W., and Clough, assignors.)

Matson, Thomas, Chicago, Ill. Combined china cabinet and refrigerator. 1,469,601; Oct. 2.

Mauck, Victor, Norristown, Pa. Shell-forming mechanism. 1,469,565; Oct. 2.

Maybach, Karl, assignor to the Firm Maybach-Motorenbau Gesellschaft mit beschrankter Haftung, Friedrichshafen, Germany. Vehicle brake. 1,469,232; Oct. 2.

Maybach-Motorenbau Gesellschaft mit beschrankter Haftung. (See Maybach, Karl, assignor.)

Mayer, Emil, and A. Leib, assignors to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Circuit arrangement for receiving radioenergy. 1,469,328; Oct. 2.

Meadows, Thomas, & Co. Limited. (See Bigby, L. I. M., and Meikle, assignors.)

Mehanna, Willis E., Bussey, Iowa. Gate hinge. 1,469,425; Oct. 2.

Meikle, James R. (See Bigby, L. I. M., and Meikle.)

Merchants Gold Stamp Company. (See Adamy, Harry D., assignor.)

Merrill Company, The. (See Nordstrom, Sven J., assignor.)

Messer, Adolf, Frankfort-on-the-Main, Germany. Carbon cartridge adapted to be used as initial igniter. 1,469,442; Oct. 2.

Messer, Peter J., Olean, N. Y. Vehicle signal. 1,469,481; Oct. 2.

Messina, Angelo C. and J., Pittsburgh, Pa. Lock. 1,469,233; Oct. 2.

Messina, Joseph. (See Messina, Angelo C. and J.)

Meyer, Harry R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Starting mechanism for automobiles. 1,469,234; Oct. 2.

Meyer, Lorenz L., Wentworth, S. Dak. Manure loader. 1,469,660; Oct. 2.

Midwest Engine Corporation. (See Wait, Henry H., assignor.)

Migita, Tosuke, New York, N. Y. Lacing means for brogues, leggings, and the like. 1,469,661; Oct. 2.

Miller, Abraham, New York, N. Y. Chandelier. Des. 63,110; Oct. 2.

Miller, Fred J., Bellevue, Pa. Locking receptacle. 1,469,390; Oct. 2.

Miller, James R., Pittsburgh, Pa. Reclaiming used oil. 1,469,426; Oct. 2.

Miller, John H., MacDunn, W. Va. Car-controlled trolley-line cut-out. 1,469,672; Oct. 2.

Minch, Walter B., Jackson, assignor to General Motors Corporation, Detroit, Mich. Wheel. 1,469,265; Oct. 2.

Mittan, Clyde R., Virginia, Nebr. Fruit-jar wrench. 1,469,427; Oct. 2.

Moister, John. (See Lukens, Gabriel L., assignor.)

Möller, Erwin, Brackwede, and W. Hoss, Bad Homburg, Germany, assignors to International Precipitation Company, Los Angeles, Calif. Apparatus for electrical precipitation of suspended particles from gases. 1,469,175; Oct. 2.

Molten, Louis A., Hoboken, N. J. Closure for containers. 1,469,235; Oct. 2.

Moore, Benjamin S., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Locomotive frame. 1,469,236; Oct. 2.

Moore, Giles S. (See Moore, Otto, assignor.)

Moore, Otto, assignor of one-half to G. S. Moore, Frankfort, Ind. Trolley wheel. Re15,693; Oct. 2.

Moraine, Elza H., Guthrie Center, Iowa. Automatic sugar sacker. 1,469,673; Oct. 2.

Morgan Construction Company. (See Edwards, Victor E., assignor.)

Morse Chain Company. (See Morse, Frank L., assignor.)

Morse, Frank L., Ithaca, N. Y., assignor to Morse Chain Company. Power chain. 1,469,391; Oct. 2.

Mosler Safe Company, The. (See Goldsmith, G. M., and Bartels, assignors.)

Moss, Austin D., Sistersville, W. Va. Combination chair, swing, and hammock. 1,469,674; Oct. 2.

Moulden, George W. (See McCoy, Elijah, assignor.)

Moulton, Harley C., Dorchester, Mass., assignor, by mesne assignments, to L. M. Stein, Chicago, Ill. Work-presenting mechanism for sewing machines. 1,469,675; Oct. 2.

Moulton, Harley C., Dorchester, Mass., assignor, by mesne assignments, to L. M. Stein, Chicago, Ill. Feeding mechanism for sewing machines. 1,469,676; Oct. 2.

Mudge & Company (See Bender, George W., assignor.)

Mudge & Company. (See Borden, Edward R., assignor.)

Mudge & Company. (See Vanatta, Jean K., assignor.)

Müller, Eugen L., Berlin, Germany. Safety razor. 1,469,237; Oct. 2.

Muller, John, Flushing, N. Y., assignor to Decorative Arts League, Jersey City, N. J. Umbrella stand. Des. 63,083; Oct. 2.

Muller, Olga P., and A. P. Popoff, Flushing, N. Y., assignors to Decorative Arts League, Jersey City, N. J. Lamp. Des. 63,111; Oct. 2.

Murphy, Walter P. (See Nicholas, Charles W., assignor.)

Myers, Don D., assignor to Industrial Research Corporation, Toledo, Ohio. Method and machine for refrigeration. 1,469,729; Oct. 2.

Nadolney, Otto, Nanticoke, Pa. Hinge. 1,469,525; Oct. 2.

Napolitan, Francis J., Springfield, Mass., assignor, by mesne assignments, to Air Reduction Company, Incorporated, New York, N. Y. Oxyacetylene torch. 1,469,392; Oct. 2.

Naren, Llewelyn A., Fresno, Calif. Tire rack for automobiles. Re15,695; Oct. 2.

National Aniline & Chemical Company. (See Nelson, Ralph A., assignor.)

Naylor, Frederick B., Allentown, N. J. Chicken feeder. 1,469,677; Oct. 2.

Needham, Jane E., Brooklyn, N. Y. Spool holder. 1,469,266; Oct. 2.

Nelson, Alvin, and L. T. Du Bois, Vallejo, Calif. Emergency brake. 1,469,428; Oct. 2.

Nelson, Ralph A., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Production of hydrazanisol. 1,469,586; Oct. 2.

Neumaier, John E., assignor to The Lignite Pressed Coal Company, Dayton, Ohio. Molding press. 1,469,429; Oct. 2.

Neumann, R., Hardware Co., The. (See Isidor, Joseph S., assignor.)

Neupert, Clarence W., Buffalo, N. Y. Pump. 1,469,365; Oct. 2.

New Departure Manufacturing Company, The. (See Hughes, Frederick G., assignor.)

New Era Mfg. Company. (See Fanslow, Benjamin O., assignor.)

New York Mills Corporation. (See Leiper, John, assignor.)

Newell, John, Scarsdale, N. Y. Concrete wall block. 1,469,678; Oct. 2.

Newhall, Henry B., executor. (See Karitsky, John, assignor.)

Newhall, Henry B., executor. (See Pleister, H. W., and Karitska, assignors.)

Newhall, Henry B., formerly known as H. Newhall, jr. (See Pleister, Henry W., assignor.)

Newhall, Henry B. (See Pleister, Henry W., assignor.)

Newhard, Monte W., assignor of one-half to A. Bachert, Reading, Pa. Fender. 1,469,679; Oct. 2.

Newlin, James C., Haverford, Pa. Shoe-tree. 1,469,238; Oct. 2.

Newton, William J., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Fixture-hook fitting. 1,469,587; Oct. 2.

Nicholas, Charles W., Tarentum, Pa., assignor to W. P. Murphy, Chicago, Ill. Coupler release rigging. 1,469,430; Oct. 2.

Nic olas, James A., Egan, S. Dak. Mail box. 1,469,730; Oct. 2.

Nichols, Lloyd F. (See Braun, O. N., Nichols, and Underwood.)

Niles-Pement-Pond Company. (See Blood, Harold L., assignor.)

Niles-Pement-Pond Company. (See Cullen, James K., assignor.)

Noelting, William H. (See Smithfield, E. A., and Noelting.)

Nolan, James A., Bowerston, Ohio. Feeding and weighing device. 1,469,680; Oct. 2.

Noll Aluminum Heel Co. (See Noll, William, assignor.)

Noll, William, assignor to Noll Aluminum Heel Co., Chicago, Ill. Metal heel. 1,469,681; Oct. 2.

Nordstrom, Even J., assignor of one-half to The Merrill Company, San Francisco, Calif. Valve. 1,469,762; Oct. 2.

North Bro's M'f'g Co. (See Leopold, George O., assignor.)

North East Electric Company. (See Dorsey, Farnum F., assignor.)

North East Electric Company. (See Gordon, William R., assignor.)

North East Electric Company. (See Sullivan, Raymond H., assignor.)

North, Thomas J., Louisville, Ky. Trousers supporter. 1,469,682; Oct. 2.

Norton Company. (See Greenwood, Wallace W., assignor.)

O & J Machine Company, The. (See Johnson, J. E., and Oslund, assignors.)

O'Connor, Maurice, Alameda, Calif. Resilient wheel. 1,469,393; Oct. 2.

Olson, Axel, and A. Hast, St. Paul, Minn.; said Hast assignor to said Olson. Door attachment. 1,469,683; Oct. 2.

Olson, Axel, and A. Hast, St. Paul, Minn.; said Hast assignor to said Olson. Knife sharpener. 1,469,684; Oct. 2.

Olson, Samuel, & Company. (See Olson, Samuel, assignor.)

Olson, Samuel, assignor to Samuel Olson & Company, Chicago, Ill. Automatic feeder for elevators. 1,469,329; Oct. 2.

Onwiler, Paul E., Billings, Mont. Electrical heating device. 1,469,588; Oct. 2.

O'Rourke, Frank J., Whitestone, N. Y. Douche can and indicator therefor. 1,469,486; Oct. 2.

Orr, Robert J., Woodhaven, assignor of one-half to S. Scammacca, Brooklyn, N. Y. Typewriting machine. 1,469,482; Oct. 2.

Osborne, Lonnie E., and N. M. Lower, Bellevue, Pa. Locomotive booster. 1,469,526; Oct. 2.

Oslund, Charles H. (See Johnson, J. E., and Oslund.)

Ostrander, Orra A., Kirkwood, N. Y. Tail holder for cattle. 1,469,239; Oct. 2.

Ouderkirk, Charles W., Mount Pleasant, Mich. Shaft coupling. 1,469,527; Oct. 2.

Owens, John, Washington, D. C. Metal hose. 1,469,528; Oct. 2.

Package Machinery Company. (See Langhammer, Paul, assignor.)

Page, Victor W., Kew Gardens, New York, N. Y. Spring mounting. 1,469,731; Oct. 2.

Palmer, Charles G., Newark, N. J. Gravity latch. 1,469,590; Oct. 2.

Palmer, Charles G., Newark, N. J. Socket wrench. 1,469,589; Oct. 2.

Palmer, Frederick H., Cleveland, Ohio. Automobile cradle. 1,469,366; Oct. 2.

Palmer, William C., Davenport, Iowa. Device for testing the recuperative power in a gun. 1,469,240; Oct. 2.

Parker, Fred. (See Schilling, John M., assignor.)

Parkinson, Richard H., assignor to Attractive Publicity, Limited, London, England. Winding mechanism for endless bands or films for cinematographs or other machines. 1,469,483; Oct. 2.

Pashby, John C., Lynn, Mass. Nailing machine. 1,469,529; Oct. 2.

Peabody, Donald C. (See Johnston, H. H., and Peabody.)

Perkins Appliance Company. (See Perkins, J. L., Croft, and Sickles, assignors.)

Perkins, Julian L., West Springfield, and H. D. Croft and F. W. Sickles, assignors to Perkins Appliance Company, Springfield, Mass. Machine for and method of broaching gears. 1,469,602; Oct. 2.
Perkins, Richard E., Boston, Mass. Smoking pipe. 1,469,685; Oct. 2.
Perlmann, Schal & Stern. (See Schüler, E. Otto, assignor.)
Peters, John W., Roslyn, N. Y. Lawn mower. 1,469,603; Oct. 2.
Petersen, Anker, Winthrop, Mass. Braiding die. 1,469,530; Oct. 2.
Peterson, Herman L. E., Rockford, Ill. Razor-blade holder. 1,469,604; Oct. 2.
Petry, Nicholas A., Philadelphia, Pa. Cut-out mechanism. 1,469,686; Oct. 2.
Pfaltzgraff, Hattie M., Atlantic City, N. J. Abdominal support. 1,469,687; Oct. 2.
Piercy, Millard F., Baltimore, Md. Toy. 1,469,605; Oct. 2.
Pietsch, Charles F. (See Breakey, A., and Pietsch.)
Pike, George J. (See Gunlocke, W. H., and Pike.)
Pirott, Celester. (See McCracken, B., and Pirott.)
Pitkin, Arthur F., Schenectady, N. Y. Stay bolt for steam boilers. 1,469,688; Oct. 2.
Pleister, Henry W., Westfield, and J. Karitzky, Garwood, N. J.; said Pleister assignor to H. B. Newhall and said Karitzky assignor to H. B. Newhall, executor of H. B. Newhall, sr., deceased. Bolt anchor. 1,469,665; Oct. 2.
Pleister, Henry W., Westfield, and J. Karitzky, Garwood, assignors to H. B. Newhall, Plainfield, N. J., executor of H. B. Newhall, sr., deceased. Bolt anchor. 1,469,666; Oct. 2.
Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall. Bolt anchor. 1,469,667; Oct. 2.
Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, formerly known as H. B. Newhall, jr. Bolt anchor. 1,469,669; Oct. 2.
Pollack, Daniel. (See Kasdan, N., and Pollack.)
Popoff, Andrew P. (See Mullier, O. P., and Popoff.)
Port Townsend Camera Co. (See Torka, F., and Redders, assignors.)
Potash Extraction Corporation. (See Glaeser, Walter, assignor.)
Powel, Henry C., London, England, assignor to T. A. Lewis, New York, N. Y. Device for the promoting and controlling of the circulation of water in water-tube boilers. 1,469,531; Oct. 2.
Powers, Fred W., assignor to The Powers Regulator Company, Chicago, Ill. Pilot-burner control. 1,469,394; Oct. 2.
Powers Regulator Company, The. (See Powers, Fred W., assignor.)
Pratt & Whitney Company. (See Thacher, John J., assignor.)
Preston, Neil D. (See Dodge, L. E., and Preston.)
Priem, Samuel F., Shawano, Wis. Hat holder. 1,469,532; Oct. 2.
Prius, Joseph S., Barcelona, Spain. Hydraulic press. 1,469,689; Oct. 2.
Pucker, Adolph. (See Foster, Hugh C., assignor.)
Pulig, Philip W., Philadelphia, Pa. Motor-meter-illuminating device. 1,469,694; Oct. 2.
Pulson, William L., Randolph, Mass. Apparatus for oiling stamped materials. 1,469,695; Oct. 2.
Quigley, Thomas W., Syracuse, N. Y. Grave urn. 1,469,459; Oct. 2.
Racine Confectioners' Machinery Company. (See Hartshorn, Willis N., assignor.)
Raez, Niklas, St. Joseph, Mo. Combination tool. 1,469,696; Oct. 2.
Ragsdale, Earl J. W., Norristown, assignor to Budd Wheel Company, Philadelphia, Pa. Brake-actuating mechanism for steering wheels. 1,469,484; Oct. 2.
Rahling, Henry D., assignor to Cygnet Mfg. Co., Inc., Buffalo, N. Y. Wrench. 1,469,533; Oct. 2.
Rahr, Chester E., Boston, Mass., and L. Kirschbraun, Chicago, Ill. Waterproof product and making same. 1,469,606; Oct. 2.
Rand, James H., North Tonawanda, N. Y. Index device. 1,469,534; Oct. 2.
Ratliff, William, Montreal, Quebec, Canada. Helicopter. 1,469,330; Oct. 2.
Redders, Paul H. C. (See Torka, F., and Redders.)
Reim, Reinhold J., assignor of one-half to F. X. Jaegel, Hayward, Calif. Shoe. 1,469,697; Oct. 2.
Rembold, Victor, Kiel, Germany. Removing the pistons from piston engines. 1,469,267; Oct. 2.
Rembold, Victor, Kiel, Germany. Engine-reversing shaft in explosion motors. 1,469,443; Oct. 2.
Remington Accounting Machine Corporation. (See Seiweck, Carl A., assignor.)
Remington Typewriter Company. (See Holden, Joseph B., assignor.)
Remsen, William H., assignor of one-half to G. Heinemann, Kansas City, Mo. Truck hoist. 1,469,732; Oct. 2.
Resistolite Appliance Co. (See Buresch, Edward G., assignor.)
Richard, Joseph O., assignor to Hayes Manufacturing Company, Detroit, Mich. Jig for marking and drilling fenders. 1,469,395; Oct. 2.
Richards, George A., jr., Providence, R. I. Toll collecting mechanism. 1,469,535; Oct. 2.
Richmond, Carl A., New York, N. Y., assignor to The General Railway Signal Company. Speed-control apparatus for railway cars. 1,469,268; Oct. 2.
Riley, John B., Ridgely, Tenn. Adjustable axle. 1,469,698; Oct. 2.
Risley, Clayton E., Hamilton, N. Y. Packing box for potted plants. 1,469,536; Oct. 2.
Rittmeyer, Louis C., and F. B. Lovejoy, Cincinnati, Ohio. Ball thrust and roller bearing. 1,469,537; Oct. 2.
Rivetta, Giovanni, Paris, France, assignor to Sept Cinema Camera Distributors, Inc., New York, N. Y. Magazine box for cinematographic or photographic apparatus. 1,469,485; Oct. 2.
Robertson, Samuel B., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Pneumatic tire. Des. 63,112; Oct. 2.
Robin, Philip T., New York, N. Y. Transmission unit. 1,469,538; Oct. 2.
Romano, Gaetano E. (See Burger, Martin, assignor.)
Rose, David C., Fort Montgomery, N. Y. Emergency wheel lock. 1,469,269; Oct. 2.
Ross, David E., La Fayette, Ind. Variable-speed transmission gearing. 1,469,333; Oct. 2.
Ross, Hugh M., Woodhaven, assignor to Adriance Machine Works, Inc., Brooklyn, N. Y. Seaming machine. 1,469,334; Oct. 2.
Roth, Isidor, Brooklyn, N. Y., assignor to Benjamin & Johnes. Corset and similar garment. 1,469,335; Oct. 2.
Rothschild, Max, New York, N. Y., assignor to Susquehanna Silk Mills. Textile fabric. Des. 63,084; Oct. 2.
Rowan, Harry B., North Attleboro, Mass., assignor to Whiting & Davis Company. Mesh bag. Des. 63,085; Oct. 2.
Rowan, Harry B., North Attleboro, Mass., assignor to Whiting & Davis Company. Mesh bag. Des. 63,086; Oct. 2.
Rowan, Harry B., North Attleboro, Mass., assignor to Whiting & Davis Company. Mesh bag. Des. 63,087; Oct. 2.
Rowan, Harry B., North Attleboro, Mass., assignor to Whiting & Davis Company. Mesh bag. Des. 63,088; Oct. 2.
Rowland, Charles L., Carbondale, Pa. Protector for valves of containers. 1,469,646; Oct. 2.
Rowley, Arthur C., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa. Sprinkler guard. 1,469,336; Oct. 2.
Roy Watch Case Co. (See Stearns, A. L., and Hofman, assignors.)
Ruegger, Eduard, Zurich, Switzerland. Hollow inclosed float. 1,469,647; Oct. 2.
Ryan, Michael W., and M. Uttendorfer, Seattle, Wash. Radiator meter. 1,469,444; Oct. 2.
Ryan, Michael W. and M. Uttendorfer, Seattle, Wash. Radiator meter. 1,469,445; Oct. 2.
Salamon, Rudolf, New York, N. Y. Window lock and alarm. 1,469,446; Oct. 2.
Samuels, Nicholas W. (See McQuaid, J. J., and Samuels.)
Sanborn, Edgar M., Oakland, Calif. Backing alarm and signal for automobiles. 1,469,337; Oct. 2.
Scammacca, Stephen. (See Orr, Robert J., assignor.)
Schadewald, Henry M., Philadelphia, Pa. Haircloth loom. 1,469,338; Oct. 2.
Schedler, John, Philadelphia, Pa. Bottle stopper. 1,469,487; Oct. 2.
Schilling, John M., assignor to F. Parker, Chicago, Ill. Sign. 1,469,396; Oct. 2.
Scholl, William M., Chicago, Ill. Device for giving foot comfort. 1,469,607; Oct. 2.
Schreible, Joseph, Chicago, Ill. Absolute alcohol. 1,469,447; Oct. 2.
Schram, Bernard, Paterson, N. J. Warping machine. 1,469,339; Oct. 2.
Schriver, O. P., Company, The. (See Happensack, Edward F., assignor.)
Schiller, E. Otto, Falkenstein, Germany, assignor to Perlmann, Schal & Stern, New York, N. Y. Machine embroidery. Des. 63,089; Oct. 2.
Schweitzer & Conrad. (See Conrad, Nicholas J., assignor.)
Schwenck, Frederick W., Cincinnati, Ohio. Decanter. Des. 63,090; Oct. 2.
Seavey, Elmer S., Johnstown, Pa. Flexible joint. 1,469,448; Oct. 2.
S. E. Company. (See Dundas, R. C., and Howes, assignors.)
Security Trust Company. (See Williams, Harvey D., assignor.)
Sept Cinema Camera Distributors, Inc. (See Rivetta, Giovanni, assignor.)
Seybold, Charles and W. L. Valiquette, assignors to The Seybold Machine Company, Dayton, Ohio. Paper-trimming machine. 1,469,733; Oct. 2.
Seybold Machine Company, The. (See Seybold, C., and Valiquette, assignors.)
Shaw, Louis E., East Orange, N. J., assignor to Williams Motors Inc., New York, N. Y. Disk wheel. 1,469,699; Oct. 2.
Shawmut Engineering Company. (See Hathaway, Edgar F., assignor.)

Sheldon, Lewis W., Brooklyn, N. Y. Power-transmission device. 1,469,700; Oct. 2.
Short, Charles R., assignor to General Motors Company, Detroit, Mich. Guide member for valve-operating mechanism of internal-combustion engines. 1,469,270; Oct. 2.
Shortell, William P., Poughkeepsie, N. Y. Poultry feeder. 1,469,340; Oct. 2.
Shupe, William S., Philadelphia, Pa. Heater. 1,469,648; Oct. 2.
Sibley, Edward L., 2d, assignor to Edward L. Sibley Manufacturing Company, Incorporated, Bennington, Vt. Blanking out eyelets. 1,469,757; Oct. 2.
Sibley, Edward L., Manufacturing Company. (See Sibley, Edward L., 2d, assignor.)
Sickles, Frank W. (See Perkins, J. L., Croft, and Sickles.)
Sieweck, Carl A., assignor to Remington Accounting Machine Corporation, New York, N. Y. Calculating machine. 1,469,488; Oct. 2.
Silander, Arthur E., Berlin, Germany. Brush-making machine. 1,469,449; Oct. 2.
Silberhartz, Jacob and N. Abzug, New York, N. Y. Gas fixture with detachable shade. 1,469,539; Oct. 2.
Simmchen, Wilhelm, Aussig-Kleische-on-the-Elbe, Czechoslovakia. Letting-off mechanism for looms. 1,469,701; Oct. 2.
Simons, Frank E., Los Angeles, Calif. Orchard heater. 1,469,540; Oct. 2.
Simons, Sidney G. (See Grimes, Thaddeus S., assignor.)
Sinkula, Francis J., and H. H. Kowitz, Pembine, Wis. Hand rest for fishing reels. 1,469,649; Oct. 2.
Sitter, Paul J., Oshkosh, Wis. Combination pipe and cigarette holder. 1,469,276; Oct. 2.
Sitter, Paul J., Oshkosh, Wis. Combination cigar and cigarette holder. 1,469,277; Oct. 2.
Sitter, Paul J., Oshkosh, Wis. Advertising attachment for cigar and cigarette holders. 1,469,278; Oct. 2.
Sietto, Henry, Templeton, Calif. Vegetable and fruit peeling device. 1,469,650; Oct. 2.
Slinger, Jessie M., Riverside, Calif. Flower stand. Des. 63,113; Oct. 2.
Smiley, William E., Cazenovia, and H. D. Ga Nung, Syracuse, N. Y.; said Ga Nung assignor to said Smiley. Pinch bar. 1,469,367; Oct. 2.
Smithfield, Emil A., and W. H. Noelting, assignors to Faultless Caster Company, Evansville, Ind. Truck caster wheel. 1,463,397; Oct. 2.
Smith, George E. (See Blackington, E. D., and Smith.)
Smith, John G., Muswell Hill, London, England. Lamp, searchlight, and the like. 1,469,690; Oct. 2.
Snider, T. A., Preserve Company, The. (See Street, Wade L., assignor.)
Snyder, Charles F., Pittsburgh, Pa. Facing or cutting tool. 1,469,279; Oct. 2.
Snyder, Ward H., and F. F. Farkas, Chicago, Ill. Diaphragm. 1,469,763; Oct. 2.
Soderberg, Mary P., Portland, Oreg. Cutter or mixer. 1,469,691; Oct. 2.
Soltys, John, Detroit, Mich. Article support. 1,469,692; Oct. 2.
Soulé, Edward, Brooklyn, N. Y. Direction-signal casing. Des. 63,091; Oct. 2.
Spencer, George M., St. Louis, Mo. Air-cleaning attachment for automobile carburetors, air compressors, air-brake systems, etc. 1,469,702; Oct. 2.
Spencer, Richard J., Chattanooga, Tenn. Bronzing machine. 1,469,341; Oct. 2.
Stahl, Karl, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Tensile-stress-determining device. 1,469,280; Oct. 2.
Staley, Joseph H., Columbus, Ind. Motor stand. 1,469,734; Oct. 2.
Standard Cap & Seal Corporation. (See Tevander, Olof N., assignor.)
Standard Development Company. (See Benton, Harry O., assignor.)
Standard Steel Car Company. (See Anderson, Harry T., assignor.)
Standefer, John D., and J. H. Stidham, Dooley, Va. Washing machine. 1,469,541; Oct. 2.
Stansfield, Norwood V., Baltimore, Md. Bag seal. 1,469,703; Oct. 2.
St. Cloud, Virgil, Raleigh, N. C. Doorcheck. 1,469,693; Oct. 2.
Stearns, Albert L., New York, and A. W. Hofmann, Brooklyn, assignors to Roy Watch Case Co., New York, N. Y. Watchcase filler ring. 1,469,735; Oct. 2.
Stein, Lawrence M. (See Moulton, Harley C., assignor.)
Steiner, Leopold, New York, N. Y., assignor to Leopold Steiner Mfg. Co. Apparatus for preparing anæsthetics. 1,469,608; Oct. 2.
Steiner, Leopold Mfg. Co. (See Steiner, Leopold, assignor.)
Stevens, Horace D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Method and apparatus for vulcanizing inner-tube splices. 1,469,342; Oct. 2.
Stevens, William H., New York, N. Y. Garter. 1,469,281; Oct. 2.
Stewart, Edgar C. (See Stewart, Ulysses S., assignor.)
Stewart Manufacturing Corporation. (See McAvoy, John A., assignor.)
Stewart, Owen D. (See Gearhart, R. E., Stewart, and Heckel.)
Stewart, Ulysses S., assignor of one-half to E. C. Stewart, Baltimore, Md. Sectional bin. 1,469,609; Oct. 2.
Stidham, James H. (See Standefer, J. D., and Stidham.)
Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Warp stop mechanism for looms. 1,469,758; Oct. 2.
Stimpson, Wallace I., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. 1,469,759; Oct. 2.
Stinson, Warren J. (See Hanke, L. F., and Stinson.)
Stone, John H., Edgewood, R. I. Hair comb. 1,469,450; Oct. 2.
Storms, John P., Enid, Okla. Door. 1,469,542; Oct. 2.
Storz, Charles R., Brooklyn, N. Y. Scissors. 1,469,283; Oct. 2.
Storz, Leon A., Worcester, Mass. Casting machine. 1,469,282; Oct. 2.
Strachan, George I. and J. L., Muir, Mich. Shingle. 1,469,543; Oct. 2.
Strachan, J. Lee. (See Strachan, George I. and J. L.)
Straub, John, Ashley, N. Dak. Cuspidor. 1,469,704; Oct. 2.
Strawn, Ervin E., Des Moines, Iowa. Brake and tension device. 1,469,284; Oct. 2.
Street, Wade L., assignor to The T. A. Snider Preserve Company, Chicago, Ill. Automatic can-opening machine. 1,469,398; Oct. 2.
Strizzi, Giovanni, New Castle, Pa. Crushing and separating machine. 1,469,460; Oct. 2.
Strong, Ernest G., assignor to Timken Roller Bearing Company, Canton, Ohio. Plug gauge. 1,469,343; Oct. 2.
Sullivan, Raymond H., assignor to North East Electric Company, Rochester, N. Y. Storage-battery system. 1,469,736; Oct. 2.
Susquehanna Silk Mills. (See Rothschild, Max, assignor.)
Swalm, Lindlan J., Washington, D. C. Inking mechanism for plate-printing machines. 1,469,544; Oct. 2.
Tackler, Samuel, New York, N. Y. Snap button. Des. 63,114; Oct. 2.
Taft, George F., Boston, Mass. Shield for automobile headlights. 1,469,545; Oct. 2.
Taggart, Leroy C. (See Leibing, W. E., and Taggart.)
Teisen, Theodor, Birmingham, England. Furnace. 1,469,461; Oct. 2.
Tennis, Joseph P., Seattle, Wash. Safety appliance. 1,469,462; Oct. 2.
Tevander, Olof N., assignor to Standard Cap & Steel Corporation, Chicago, Ill. Impregnating apparatus. 1,469,737; Oct. 2.
Tew, James D., Hudson, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Pneumatic tire. Des. 63,115; Oct. 2.
Texas Gulf Sulphur Company. (See Kobbé, William H., assignor.)
Textile Engineering Company. (See Hale, Joshua B., assignor.)
Thacher, John J., Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Drill-lubricating pump. 1,469,368; Oct. 2.
Thomson, Judson L., Mfg. Co. (See Havener, Arthur R., assignor.)
Thompson, Francis S., Stanley, Ky. Mower. 1,469,546; Oct. 2.
Thompson, George, New York, N. Y. Gun rest for sportsmen. 1,469,285; Oct. 2.
Timken Roller Bearing Company. (See Strong, Ernest G., assignor.)
Tonintti, Frank E., Forest Park, Ill. Legging. 1,469,286; Oct. 2.
Toun, Max. (See Duff, Thomas F., assignor.)
Torchia, Joseph, Cincinnati, Ohio. Bloomers. 1,469,287; Oct. 2.
Torka, Frank, and P. H. C. Redders, assignors to Port Townsend Camera Co., Port Townsend, Wash. Focusing attachment for folding cameras. 1,469,547; Oct. 2.
Tozier, Charles C., Wrentham, Mass.; A. L. Goodwin, executor. Stove. 1,469,463; Oct. 2.
Treat, Francis H., Cleveland, Ohio, assignor to Duff Patents Company, Incorporated, Pittsburgh, Pa. Gas producer. 1,469,399; Oct. 2.
Trenor, Albert D., assignor to J. H. Hammond, jr., Gloucester, Mass. Helm-limiting device. Re15,694; Oct. 2.
Trust, Josephine, administratrix. (See Trust, H., and Ashley.)
Trust, Josephine. (See Trust, H., and Ashley, assignors.)
Tschudy, Heinrich, Ennenda, Switzerland. Drawing frame for spinning machinery. 1,469,548; Oct. 2.
Tubbs, Earl D., New York, N. Y., assignor to Igoe Brothers, Newark, N. J. Flexible shaft coupling. 1,469,738; Oct. 2.
Turner, George S., New Brunswick, N. J. Puncturing attachment for collapsible tubes. 1,469,739; Oct. 2.
Underwood, Elmer L. (See Braun, O. N., Nichols, and Underwood.)
Underwood, Henry V., assignor of one-third to C. E. Hutchison, Mount Holly, N. C. Can-turning mechanism. 1,469,740; Oct. 2.
Union Metal Products Company. (See Cox, Millard F., assignor.)
Union Switch & Signal Company. (See Castleman, Frank M., assignor.)
United Last Company. (See Wegner, Fred, assignor.)
United Shoe Machinery Corporation. (See Bates, Arthur, assignor.)

United Shoe Machinery Corporation. (See Baxter, William C., assignor.)
United Shoe Machinery Corporation. (See Dyer, Newell V., assignor.)
United Shoe Machinery Corporation. (See La Chapelle, Fred N., assignor.)
United States Cast Iron Pipe & Foundry Company. (See Ladd, James B., assignor.)
Ursino, Pasquale, Seattle, Wash. Track surfacer and cleaner. 1,469,464; Oct. 2.
Ustynik, Gustav, Wharton, Tex. Toy gun. 1,469,610; Oct. 2.
Uttendorfer, Michael. (See Ryan, M. W., and Uttendorfer.)
Vacuum Oil Company. (See Hooper, Charles L., assignor.)
Valiquette, William L. (See Seybold, C., and Valiquette.)
Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. 1,469,491; Oct. 2.
Vanatta, Jean K., assignor to Mudge & Company, Chicago, Ill. Motor car. 1,469,741; Oct. 2.
Vandergaw, Edward B., Brooklyn, and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 63,092; Oct. 2.
Vandergaw, Edward B., Brooklyn, and J. Heinrich, assignors to Fred Butterfield & Co., Inc., New York, N. Y. Flocked voile fabric. Des. 63,093; Oct. 2.
Vandewater, Fred F., Hornell, N. Y. Railway classification signal. 1,469,549; Oct. 2.
Vanwinkle, Wilbur J., Union, N. Y. Toy. 1,469,705; Oct. 2.
Vasselli, Anthony, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Means for distorting tubes. 1,469,489; Oct. 2.
Velton, Steve J., Houston, Tex. Superheating oil burner. 1,469,465; Oct. 2.
Vermeire, Isidore F., Brussels, Belgium. Production of creosote mixture for impregnating wood. 1,469,466; Oct. 2.
Vester, Alfred Sons, Inc. (See Howell, Hamilton T., assignor.)
Vester, Alfred, Sons, Inc. (See McFadden, Glenn E., assignor.)
Vetter, Friedrich, Amsterdam, Netherlands. Motor-cycle saddle or seat. 1,469,742; Oct. 2.
Vos, Calvin, New York, N. Y. Treating molten metals. 1,469,706; Oct. 2.
Wadsworth, Philip. (See Whiting, J., and Wadsworth.)
Wagenbach, Anton, Elberfeld, Germany. Shears for iron and similar materials. 1,469,467; Oct. 2.
Wait, Henry H., Anderson., assignor, by mesne assignments, to Midwest Engine Corporation, Indianapolis, Ind. Multistage turbine. 1,469,707; Oct. 2.
Walker, Lenard, et al. (See James, William E., assignor.)
Walters, Gustav, Middletown, Conn. Fountain brush. 1,469,708; Oct. 2.
Walther, George, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Wheel. 1,469,288; Oct. 2.
Walton, George W., Mission, Tex. Stropping device. 1,469,468; Oct. 2.
Ware, Walter, Chicago, Ill. Roller. 1,469,344; Oct. 2.
Waream, Charles E., Cincinnati, and D. H. Benjamin, Cleveland Heights, assignors to The American Laundry Machinery Company, Cincinnati, Ohio. Shirt-ironing board. 1,469,743; Oct. 2.
Washburn, Frederick C., New Bedford, Mass. Pin board. 1,469,550; Oct. 2.
Waterman, Ellen, administratrix. (See Waterman, Fay L.)
Waterman, Fay L., deceased. Endicott, N. Y.; E. Waterman, administratrix. Screen. 1,469,490; Oct. 2.
Wegner, Fred, Fairport, N. Y., assignor, by mesne assignments, to United Last Company, Auburn, Me. Last for making footwear. 1,469,289; Oct. 2.
Weiland, Charles, New York, N. Y. Belt or collar. 1,469,345; Oct. 2.
Weisglass, Samuel, Brooklyn, N. Y. Crib corner lock. 1,469,745; Oct. 2.
Welshäupl, Joseph, assignor to the Firm Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie, Zurich, Switzerland. Manufacturing turbine rotors. 1,469,586; Oct. 2.
Welch, John R., deceased: V. M. Welch, executrix., assignor to V. M. Welch, Muncie, Ind. Metallic vehicle wheel. 1,469,746; Oct. 2.
Welch, Viola M., executrix. (See Welch, John R.)
Welch, Viola M. (See Welch, John R., assignor.)
Wessale, Edward, Waconia, Minn. Process of and apparatus for preparing cane for extraction. 1,469,744; Oct. 2.
Westall, John, Fall River, Mass. Overflow-controlled safety device for oil burners. 1,469,346; Oct. 2.
West Disinfecting Company. (See Dreyfus, William, assignor.)
Western Electric Company. (See Fletcher, Harvey, assignor.)
Westin, Alvin E., Seattle, Wash. Expansive file tray. 1,469,347; Oct. 2.
Westinghouse Air Brake Company. (See Bartholomew, John R., assignor.)
Westinghouse Air Brake Company, The. (See McCune, Joseph C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Candee, Andrew H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Crouse, John L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Douglass, William E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Johnston, H. H., and Peabody, assignors.)
Westinghouse Electric & Manufacturing Company. (See Kemp, Robert, assignor.)
Westinghouse Electric & Manufacturing Company. (See Marbury, Ralph E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Meyer, Harry R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Moore, Benjamin S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wilson, Arthur L., assignor.)
Whitehorn, Arthur R., Downers Grove, Ill. Direct-current-relay compensating coil. 1,469,400; Oct. 2.
Whiting & Davis Company. (See Rowan, Harry B., assignor.)
Whiting, Jasper, Boston, and P. Wadsworth, Milton, Mass. Container. 1,469,567; Oct. 2.
Wickberg, Godfrey, Seattle, Wash. Toothbrush. 1,469,348; Oct. 2.
Willett, Leon E., Detroit, Mich. Automobile steering-gear lock. 1,469,401; Oct. 2.
Williams, Celia M., Hammon, Okla. Mop. 1,469,568; Oct. 2.
Williams, Harvey D., Wallingford, Conn., assignor, by mesne assignments, to Security Trust Company, Detroit, Mich. Toothed gear. 1,469,290; Oct. 2.
Williams Motors Inc. (See Shaw, Louise E., assignor.)
Wilson, Arthur L., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radio control system. 1,469,349; Oct. 2.
Winchester Repeating Arms Company. (See Davis, Elwood R., assignor.)
Winslow, Marion H., Terre Haute, Ind. Platform scale. 1,469,402; Oct. 2.
Winter, Edwin M., Brooklyn, N. Y. Hot die for plastic molding. 1,469,747; Oct. 2.
Wirebounds Patents Company. (See Bauwens, Seraphine F., assignor.)
Wirth-Frey, Elias, Aarau, Switzerland. Evaporation and apparatus therefor. 1,469,475; Oct. 2.
Wolf, Ernest A. P., New York, N. Y. Loose-leaf binder and filler therefor. 1,469,748; Oct. 2.
Woman's Institute of Domestic Arts & Sciences, Inc. (See Jankus, Jack C., assignor.)
Wood, Christopher E., Roxborough, Philadelphia, Pa. Door for grain cars. 1,469,350; Oct. 2.
Woodrug, Albert N., New York, N. Y. Copyholder. 1,469,749; Oct. 2.
Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
Wootton, Herbert D., London, England. Cameras more particularly for use in aerial photography. 1,469,569; Oct. 2.
Wright, Maurice J., Boise, Idaho. Ash tray. Des. 63,094; Oct. 2.
Wright, Stanley R., Rawdon, near Leeds, assignor to Igranic Electric Company Limited, London, England. Method of and means for applying the insulation of high-tension coils. 1,469,469; Oct. 2.
Wright, Stanley R., Rawdon, near Leeds, assignor to Igranic Electric Company Limited, London, England. Variable reciprocating transverse mechanism. 1,469,470; Oct. 2.
Wright's Automatic Tobacco Packing Machine Company. (See Feasler, George J., assignor.)
Wuyts, Henri, Brussels, Belgium. Preparation of artificial resins and oleoresins. 1,469,709; Oct. 2.
Wyatt, Frank A., Indiana, Pa. Lamp stand. Des. 63,116; Oct. 2.
Yelf, Henry H., Southsea, England. Instructional dummy practice-keyboard apparatus. 1,469,750; Oct. 2.
Yerkes, Hulbert A., Forest Hills, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Phonograph cabinet. Des. 63,095; Oct. 2.
Yerkes, Hulbert A., Forest Hills, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Phonograph cabinet. Des. 63,096; Oct. 2.
Young, Ralph L., Odell, Nebr. Lubricating device. 1,469,760; Oct. 2.
Yunck, John A., South Orange, N. J. Ingot of refractory metals and making same. 1,469,761; Oct. 2.
Zabel, Bruno. (See Zabel, Charles, assignor.)
Zabel, Charles, Coraopolis, assignor to B. Zabel, Pittsburgh, Pa. Mechanical toy. 1,469,710; Oct. 2.
Zeiss, Carl. (See Bauersfeld, Walther, assignor.)
Zepka, Ludwig R., Cleveland, Ohio. Theft signal. 1,469,570; Oct. 2.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 2D DAY OF OCTOBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abdominal support. H. M. Pfaltzgraff. 1,469,687; Oct. 2.
Abrasive device. W. C. Bohrmann. 1,469,404; Oct. 2.
Abrasive wheel, Segmental. W. W. Greenwood. 1,469,723; Oct. 2.
Accelerator, Foot. J. C. Heineke. 1,469,559; Oct. 2.
Adapter. H. P. Donle. 1,469,295; Oct. 2.
Air compressor, Jet-operated. G. McKeraban. 1,469,364; Oct. 2.
Alcohol, Absolute. J. Schneible. 1,469,447; Oct. 2.
Anæsthetics, Apparatus for preparing. L. Steiner. 1,469,608; Oct. 2.
Antiskid device. M. Dean. 1,469,312; Oct. 2.
Arch support. B. Jeschke. 1,469,417; Oct. 2.
Arch supporter. F. R. Cutting. 1,469,717; Oct. 2.
Arm, Artificial. A. E. Arnal. 1,469,431; Oct. 2.
Article support. J. Soltys. 1,469,692; Oct. 2.
Ash tray. M. J. Wright. Des. 63,094; Oct. 2.
Automobile carburetors, air compressors, air brake systems, etc., Air-cleaning attachment for. G. M. Spencer. 1,469,702; Oct. 2.
Automobile cradle. F. H. Palmer. 1,469,366; Oct. 2.
Automobile extractor. W. N. Clark. 1,469,249; Oct. 2.
Automobile gear-shift control. J. C. Boyle. 1,469,580; Oct. 2.
Automobile pulling device. C. E. Gillam. 1,469,506; Oct. 2.
Automobile starting mechanism. H. R. Meyer. 1,469,234; Oct. 2.
Automobile steering-gear lock. L. E. Willett. 1,469,401; Oct. 2.
Automobiles, Backing alarm and signal for. E. M. Sanborn. 1,469,337; Oct. 2.
Axle, Adjustable. J. R. Riley. 1,469,698; Oct. 2.
Axle and wheel, Rear. S. Hatashita. 1,469,593; Oct. 2.
Baby walker or exerciser. M. G. Fornia. 1,469,436; Oct. 2.
Bag: *See*—
  Hand bag.
Bag-frame fastener. J. S. Isidor. 1,469,478; Oct. 2.
Ball thrust and roller bearing. L. C. Rittmeyer and F. B. Lovejoy. 1,469,537; Oct. 2.
Bar: *See*—
  Pinch bar. Vehicle drawbar.
Battery clamp. H. J. Hick. 1,469,595; Oct. 2.
Bearing, End-thrust ball. J. J. McQuaid and N. W. Samuels. 1,469,424; Oct. 2.
Bearing for coil regulators. R. E. Marbury. 1,469,231; Oct. 2.
Bell guides, Making. E. R. Davis. 1,469,296; Oct. 2.
Belt coupling, Invisible. H. C. Foster. 1,469,257; Oct. 2.
Belt or collar. C. Weiland. 1,469,345; Oct. 2.
Bin: *See*—
  Sectional bin.
Binder and filler therefor, Loose-leaf. E. A. P. Wolf. 1,469,748; Oct. 2.
Binder, Loose-leaf. E. Aberle. 1,469,573; Oct. 2.
Block: *See*—
  Concrete wall block.
Bloomers. J. Torchia. 1,469,287; Oct. 2.
Board: *See*—
  Ironing board. Pin board.
Boilers, Device for the promoting and controlling of the circulation of water in water-tube. H. C. Powel. 1,469,531; Oct. 2.
Bolt anchor. J. Karitzky. 1,469,668; Oct. 2.
Bolt anchor. H. W. Pleister. 1,469,667; Oct. 2.
Bolt anchor. H. W. Pleister and J. Karitzky. 1,469,665–6; Oct. 2.
Bottle stopper. J. Schedler. 1,469,487; Oct. 2.
Box: *See*—
  Mail box.
Braid or similar article, Featherstitch. A. A. Hodgkins. Des. 63,079; Oct. 2.
Braiding die. A. Petersen. 1,469,530; Oct. 2.
Braiding-machine body structure. J. B. Hale. 1,469,217; Oct. 2.
Brake: *See*—
  Emergency brake. Vehicle brake.
Brake and tension device. E. E. Strawn. 1,469,284; Oct. 2.
Brake device, Fluid-pressure-. J. C. McCune. 1,469,585; Oct. 2.
Brake mechanism, Automotive. J. R. Bartholomew. 1,469,551; Oct. 2.
Brogues, leggings, and the like, Lacing means for. T. Migita. 1,469,661; Oct. 2.
Broiler. A. J. Gosselin. 1,469,508; Oct. 2.
Bronzing machine. R. J. Spencer. 1,469,341; Oct. 2.
Broom. H. J. Edlund. Des. 63,074; Oct. 2.
Brush and polisher, Combined. W. L. Hovey. 1,469,643; Oct. 2.
Brush, Fountain. G. Walters. 1,469,708; Oct. 2.
Brush rigging. F. F. Dorsey. 1,469,720; Oct. 2.
Brush-making machine. A. E. Silander. 1,469,449; Oct. 2.
Brush, Tooth. G. Wickberg. 1,469,348; Oct. 2.
Bumper. L. P. Halladay. 1,469,591–2; Oct. 2.
Burner: *See*—
  Gas burner. Oil burner.
Burner. T. F. Kent. 1,469,479; Oct. 2.
Button attachment or guard, Collar. F. Fredrickson. 1,469,437; Oct. 2.
Button, Snap. S. Tackler. Des. 63,114; Oct. 2.
Cab, Portable. E. D. Blackinton and G. E. Smith. 1,469,713; Oct. 2.
Cabinet, Acoustic. D. Brunelli. Des. 63,071; Oct. 2.
Cabinet and refrigerator, Combined china. T. Matson. 1,469,601; Oct. 2.
Cabinet, Service. G. R. Craw. 1,469,359; Oct. 2.
Cabinet, Type. M. G. Fleming. 1,469,385; Oct. 2.
Cable hanger. W. Boley. 1,469,578; Oct. 2.
Calculating machine. C. A. Sieweck. 1,469,488; Oct. 2.
Calender. J. A. McCrohan. 1,469,658; Oct. 2.
Camera. G. W. Kauser. 1,469,273; Oct. 2.
Camera, more particularly for use in aerial photography. H. D. Wootton. 1,469,569; Oct. 2.
Cameras, Exposure attachment for. G. J. Fischer. 1,469,435; Oct. 2.
Cameras, Focusing attachment for folding. F. Torka and P. H. C. Redders. 1,469,547; Oct. 2.
Candy-making machine. W. N. Hartshorn. 1,469,316; Oct. 2.
Cane for extraction, Process of and apparatus for preparing. E. Wessale. 1,469,744; Oct. 2.
Can-opening machine, Automatic. W. L. Street. 1,469,398; Oct. 2.
Can-turning mechanism. H. V. Underwood. 1,469,740; Oct. 2.
Car coupler, Mine-. P. J. Elliott and E. Bonamy. 1,469,434; Oct. 2.
Car couplers, Release rigging for railway. M. F. Cox. 1,469,292; Oct. 2.
Car coupling. H. M. Brown. 1,469,355; Oct. 2.
Car-handling apparatus, Drier-. R. S. Bigelow. 1,469,376; Oct. 2.
Car, Motor. J. K. Vanatta. 1,469,741; Oct. 2.
Car-unloading apparatus. O. Bieler. 1,469,246; Oct. 2.
Cars, Door for grain. C. E. Wood. 1,469,350; Oct. 2.
Cars, Speed-control apparatus for railway. C. A. Richmond. 1,469,268; Oct. 2.
Card, Display. C. G. King. Des. 63,105; Oct. 2.
Cartridge adapted to be used as initial igniter, Carbon. A. Messer. 1,469,442; Oct. 2.
Case: *See*—
  Packing case. Vanity case.
Casting machine. L. A. Storz. 1,469,282; Oct. 2.
Cattle, Tail holder for. O. A. Ostrander. 1,469,239; Oct. 2.
Chain, Power. F. L. Morse. 1,469,391; Oct. 2.
Chair. W. H. Gunlocke and G. J. Pike. Des. 63,078; Oct. 2.
Chair, swing, and hammock, Combination. A. D. Moss. 1,469,674; Oct. 2.
Chandelier. A. Miller. Des. 63,110; Oct. 2.
Check protector. B. O. Fanslow. 1,469,634; Oct. 2.
Cheese, Manufacture of brick. E. C. Damrow. 1,469,251; Oct. 2.
Cheese press, Continuous. E. C. Damrow. 1,469,252; Oct. 2.
Chicken feeder. F. B. Naylor. 1,469,677; Oct. 2.
Chimneys, Conserving and repairing. F. F. Beeby. 1,469,712; Oct. 2.
Chuck, Clamp and grip. J. K. Cullen. 1,469,360; Oct. 2.
Chuck, Core. J. W. Dirkson and L. E. Clough. 1,469,754; Oct. 2.
Chutes, Raising and lowering coal. F. M. Castleman. 1,469,357; Oct. 2.

Circuits by means of metal vapor rectifiers, Apparatus for operating direct-current three-main supply. J. Kubler. 1,469,418; Oct. 2.
Cigar and cigarette holder, Combination. P. J. Sitter. 1,469,277; Oct. 2.
Cigar and cigarette holders, Advertising attachment for. P. J. Sitter. 1,469,278; Oct. 2.
Cinematographic or photographic apparatus, Magazine box for. G. Rivetta. 1,469,485; Oct. 2.
Cinematographs, Compensating device for. W. Bauersfeld. 1,469,474; Oct. 2.
Cinematographs or other machines, Winding mechanism for endless bands or films for. R. H. Parkinson. 1,469,483; Oct. 2.
Clamp: *See*—
Battery clamp.
Cleaner handle, Suction-. H. E. Hoover. 1,469,597; Oct. 2.
Clip: *See*—
Spring clip.
Clipper, Electric. M. H. Kotzebue. 1,469,654; Oct. 2.
Closet-seat bumper. T. J. Florey. 1,469,503; Oct. 2.
Cloth-folding machines, Tensioning device for. W. P. Levy. 1,469,726; Oct. 2.
Cloth-trimming device. O. Luscher. 1,469,422; Oct. 2.
Clothes-cleaner casing, Vacuum-. R. E. Gearhart, O. D. Stewart, and L. A. Heckel. Des. 63,076; Oct. 2.
Clutch and brake lever supporting bracket. A. G. Geistert. 1,469,258; Oct. 2.
Clutch, Friction. G. Marotta. 1,469,564; Oct. 2.
Coal-cutting chains, Cutting link for. C. N. Barton. 1,469,576; Oct. 2.
Coin-controlled lock. R. B. Buzzaird and W. C. Bucknam. 1,469,553; Oct. 2.
Coking retort oven. J. van Ackeren. 1,469,491; Oct. 2.
Comb: *See*—
Hair comb.
Combination tool. A. Bangert. 1,469,472; Oct. 2.
Compound for treating Vincent's stomatitis. O. W. Lilly. 1,469,322; Oct. 2.
Concrete pile and the like. H. R. Asserson. 1,469,611; Oct. 2.
Concrete wall block. J. Newell. 1,469,678; Oct. 2.
Container. H. R. Hutchison. 1,469,512; Oct. 2.
Container. J. Whiting and P. Wadsworth. 1,469,567; Oct. 2.
Container cover. R. Buedingen. 1,469,618; Oct. 2.
Containers, Closure for. L. A. Molten. 1,469,235; Oct. 2.
Coop, Battery poultry. J. B. Danley. 1,469,384; Oct. 2.
Copyholder. A. N. Woodruff. 1,469,749; Oct. 2.
Corking machine. H. O. Benton. 1,469,614; Oct. 2.
Corset and similar garment. I. Roth. 1,469,335; Oct. 2.
Cotton press, Hydraulic. F. P. Heubner. 1,469,511; Oct. 2.
Coupler release rigging. C. W. Nicholas. 1,469,430; Oct. 2.
Coupling: *See*—
Car coupling. Shaft coupling.
Coupling. A. O. Lile. 1,469,671; Oct. 2.
Cream separator. F. J. Kristofek. 1,469,221; Oct. 2.
Creosote mixture for impregnating wood, Production of. I. F. Vermeire. 1,469,466; Oct. 2.
Crib corner lock. S. Weisglass. 1,469,745; Oct. 2.
Crown feeding and assembling apparatus. G. Goebel. 1,469,557; Oct. 2.
Crowns and the like, Machine for feeding. G. Goebel. 1,469,556; Oct. 2.
Crushing and separating machine. G. Strizzi. 1,469,460; Oct. 2.
Cultivator attachment, Tractor. A. S. Krotz. 1,469,262; Oct. 2.
Current transformed, Constant-. W. E. Douglass. 1,469,213; Oct. 2.
Current relay compensating, Direct-. A. R. Whitehorn. 1,469,400; Oct. 2.
Curtain construction. J. S. Burdick. 1,469,356; Oct. 2.
Cushion: *See*—
Reversible cushion.
Cuspidor. J. Straub. 1,469,704; Oct. 2.
Cut-out mechanism. N. A. Petry. 1,469,686; Oct. 2.
Cutter or mixer. M. P. Soderberg. 1,469,691; Oct. 2.
Cutting machine. W. C. Baxter. 1,469,245; Oct. 2.
Decanter. F. W. Schwenck. Des. 63,090; Oct. 2.
Decoy duck. J. K. Bailey. 1,469,613; Oct. 2.
Diaphragm. W. H. Snyder and F. F. Farkas. 1,469,763; Oct. 2.
Die: *See*—
Braiding die.
Die rolls, Feed-control device for. G. Baehr. 1,469,575; Oct. 2.
Dishwashing machine. H. L. Dodge. 1,469,625; Oct. 2.
Disk wheel. L. E. Shaw. 1,469,699; Oct. 2.
Display stand. G. J. Helenek. 1,469,725; Oct. 2.
Doll. C. E. Gibson. Des. 63,077; Oct. 2.
Doll or statuette. M. Case. Des. 63,072; Oct. 2.
Door. J. P. Storms. 1,469,542; Oct. 2.
Door attachment. A. Olson and A. Hast. 1,469,683; Oct. 2.
Door fastener, Combination. A. Dobson. 1,469,719; Oct. 2.
Door-locking mechanism. H. T. Anderson. 1,469,352; Oct. 2.
Doorcheck. V. St. Cloud. 1,469,693; Oct. 2.
Douche can and indicator therefor. F. J. O'Rourke. 1,469,486; Oct. 2.
Downdraft furnace. G. A. MacKenzie. 1,469,600; Oct. 2.
Drain, Floor. A. Hess and S. L. Marsh. 1,469,303; Oct. 2.
Drawing sheet and making same. H. Q. R. Crowder. 1,469,554; Oct. 2.
Dress or garment form. J. C. Jankus. 1,469,653; Oct. 2.
Drier. A. C. Danian. 1,469,294; Oct. 2.
Earring. E. P. Danz. Des. 63,098; Oct. 2.
Easel, Collapsible silent-bidding auction. C. E. De Pew. 1,469,212; Oct. 2.
Electric switch, Fluid-governed. A. B. Conant and L. A. House. 1,469,497; Oct. 2.
Electrical apparatus for the local and distant repetition of movements. J. F. Gill and J. N. Chaviara. 1,469,438; Oct. 2.
Electrical precipitation of suspended particles from gases, Apparatus for. E. Möller and W. Hoss. 1,469,275; Oct. 2.
Electrotherapeutic apparatus. E. Aba. 1,469,471; Oct. 2.
Elevators, Automatic feeder for. S. Olson. 1,469,329; Oct. 2.
Embroidery implement, Hand-. G. S. Benevento. 1,469,353; Oct. 2.
Embroidery, Machine. E. O. Schüler. Des. 63,089; Oct. 2.
Embroidery work, Holding device for. J. A. Kirchgessner. 1,469,516; Oct. 2.
Emergency brake. A. Nelson and L. T. Dubois. 1,469,428; Oct. 2.
Emulsified compositions, Making. L. Kirschbraun. 1,469,563; Oct. 2.
Engine: *See*—
Internal-combustion engine.
Engines, Air-cooling system for internal-combustion. L. B. Doman. 1,469,409; Oct. 2.
Engines, Removing the pistons from piston. V. Rembold. 1,469,267; Oct. 2.
Engines, Rocker-arm mounting for internal-combustion. K. R. Manville. 1,469,480; Oct. 2.
Engines, Valve-spring lifter for automobile and other. D. Clerico. 1,469,453; Oct. 2.
Evaporation and apparatus therefor. E. Wirth-Frey. 1,469,475; Oct. 2.
Extractor: *See*—
Automobile extractor.
Eyelets, Blanking out. E. L. Sibley, 2d. 1,469,757; Oct. 2.
Facing or cutting tool. C. F. Snyder. 1,469,279; Oct. 2.
Faucet, Three-way. A. T. J. Bahr. 1,469,612; Oct. 2.
Feeder, Chicken. F. B. Naylor. 1,469,677; Oct. 2.
Feeder, Poultry. W. P. Shorteli. 1,469,340; Oct. 2.
Feeding and weighing device. J. A. Nolan. 1,469,680; Oct. 2.
Fender. M. W. Newhard. 1,469,679; Oct. 2.
Fenders, Jig for marking and drilling. J. O. Richard. 1,469,395; Oct. 2.
Fiber-board and like box. A. Cole. 1,469,622; Oct. 2.
File tray, Expansive. A. E. Westin. 1,469,347; Oct. 2.
Files, bundles, and such like, Clamp for holding. D. G. Galbraith. 1,469,299; Oct. 2.
Files or binders, Locking device for loose-leaf. C. F. McBee. 1,469,388; Oct. 2.
Filling machine. C. L. Hooper. 1,469,218; Oct. 2.
Finger ring. H. Breslavsky. Des. 63,070; Oct. 2.
Fire pot. E. J. Horn. 1,469,598; Oct. 2.
Fire extinguisher. E. N. Dollin. 1,469,501; Oct. 2.
Fireplace heater. C. W. Buckler. 1,469,494; Oct. 2.
Firing mechanism. A. Y. Leech, jr. 1,469,663; Oct. 2.
Fishing-reel hand rest. F. J. Sinkula and H. H. Kowitz. 1,469,649; Oct. 2.
Fishing tool. C. H. Brown. 1,469,493; Oct. 2.
Flexible joint. E. S. Seavey. 1,469,448; Oct. 2.
Float, Hollow inclosed. E. Ruegger. 1,469,647; Oct. 2.
Floss ring. I. G. and W. S. Langley. 1,469,363; Oct. 2.
Flower stand. J. M. Slinger. Des. 63,113; Oct. 2.
Foot comfort, Device for giving. W. M. Scholl. 1,469,607; Oct. 2.
Footwear, Last for making. F. Wegner. 1,469,289; Oct. 2.
Forage and grain grinders, Cutter for. J. Hochenauer. 1,469,510; Oct. 2.
Formaldehyde fumigator. W. Dreyfus. 1,469,214; Oct. 2.
Frame: *See*—
Auto window frame. Vehicle frame.
Locomotive frame.
Frame or easel for displaying cards, pictures, and like articles. W. E. Kehoe. Des. 63,080; Oct. 2.
Fruit-jar wrench. C. R. Mittan. 1,469,427; Oct. 2.
Fruit-juice extractor, Casing for. C. B. Blessing. Des. 63,066; Oct. 2.
Frying pan. B. Hill. 1,469,318; Oct. 2.
Furnace: *See*—
Downdraft furnace.
Furnace. H. I. Gentine. 1,469,313; Oct. 2.
Furnace. T. Teisen. 1,469,461; Oct. 2.
Furnaces, Apparatus for charging reverberatory. A. G. McGregor. 1,469,327; Oct. 2.
Furnaces, Door for glass-pot. C. H. Christie. 1,469,358; Oct. 2.
Fuse-box construction. H. P. Liversidge. 1,469,439; Oct. 2.

Game. L. F. Hanke and W. J. Stinson. 1,469,301; Oct. 2.
Games, Apparatus for playing race. J. C. P. Magwood. 1,469,657; Oct. 2.
Garter. W. H. Stevens. 1,469,281; Oct. 2.
Gas burner. L. P. Coulter. 1,469,716; Oct. 2.
Gas fixture with detachable shade. J. Silberhartz and N. Abzug. 1,469,539; Oct. 2.
Gas heater. A. T. Broch. 1,469,714; Oct. 2.
Gas heater. J. H. Grayson. 1,469,509; Oct. 2.
Gas meter. J. A. Fardy. 1,469,216; Oct. 2.
Gas producer. P. H. Treat. 1,469,399; Oct. 2.
Gases, Apparatus for transporting. P. E. Haynes. 1,469,756; Oct. 2.
Gate mechanism. G. M. Allard. 1,469,351; Oct. 2.
Gauge: *See*—
Plug gauge.
Gear-grinding machine. O. Garrison. 1,469,504; Oct. 2.
Gear, Toothed. H. D. Williams. 1,469,290; Oct. 2.
Gears, Machine for and method of broaching. J. L. Perkins, H. D. Croft, and F. W. Sickles. 1,469,602; Oct. 2.
Gearing, Variable-speed transmission. D. E. Ross. 1,469,333; Oct. 2.
Glass. B. McCracken and C. Pirott. Des. 63,108; Oct. 2.
Glass, Drawing continuous sheet. R. P. Callard. 1,469,380; Oct. 2.
Glass-drawing mechanism, Sheet-. R. P. Callard. 1,469,379; Oct. 2.
Glass, Making sheet. J. P. Crowley. 1,469,382; Oct. 2.
Glass, Method of and apparatus for producing continuous sheet. J. P. Crowley. 1,469,383; Oct. 2.
Glassware, Manufacture of. R. Good. 1,469,457; Oct. 2.
Golf balls, Means for washing and cleaning. J. F. King. 1,469,274; Oct. 2.
Grubber and leveler, Brush. E. C. Leak. 1,469,517; Oct. 2.
Gun, Grease. F. E. Kronenbitter. 1,469,308; Oct. 2.
Gun rest for sportsmen. G. Thompson. 1,469,285; Oct. 2.
Gun, Testing the recuperative power in a. W. C. Palmer. 1,469,240; Oct. 2.
Hair comb. J. H. Stone. 1,469,450; Oct. 2.
Hamper, Clothes. B. Krisher. Des. 63,106; Oct. 2.
Hand bag. L. Hauser. 1,469,476; Oct. 2.
Handle: *See*—
Cleaner handle.
Hanger: *See*—
Cable hanger.
Hat holder. S. F. Priem. 1,469,532; Oct. 2.
Hatters, Head gauge for. O. Graff. 1,469,640; Oct. 2.
Headlight shield, Automobile. G. F. Taft. 1,469,545; Oct. 2.
Heater: *See*—
Fireplace heater. Orchard heater.
Gas heater.
Heater. W. S. Shupe. 1,469,648; Oct. 2.
Heating device, Electrical. P. E. Onwiler. 1,469,588; Oct. 2.
Heating system, Electric. J. W. Dorsey. 1,469,626; Oct. 2.
Heel attachment for shoes. F. Maccarone. 1,469,324; Oct. 2.
Heel, Metal. W. Noll. 1,469,681; Oct. 2.
Helicopter. W. Ratliff. 1,469,330; Oct. 2.
Helm-limiting device. A. D. Trenor. Re15,694; Oct. 2.
Hinge. O. Nadolney. 1,469,525; Oct. 2.
Hinge, Gate. W. E. Mehanna. 1,469,425; Oct. 2.
Holder device. C. O. Hayward. 1,469,317; Oct. 2.
Hook fitting, Fixture-. W. J. Newton. 1,469,587; Oct. 2.
Hose. J. T. Lister. 1,469,519; Oct. 2.
Hose, Metal. J. Owens. 1,469,528; Oct. 2.
Hydraulic press. J. I. Crelgh. 1,469,499; Oct. 2.
Hydraulic press. J. S. Prius. 1,469,689; Oct. 2.
Hydrazanisol production. R. A. Nelson. 1,469,586; Oct. 2.
Ice creeper. C. T. Byrd. 1,469,619; Oct. 2.
Ignition system. E. G. Buresch. 1,469,582; Oct. 2.
Ignition timer. N. A. Backscheider. 1,469,243; Oct. 2.
Impregnating apparatus. O. N. Tevander. 1,469,737; Oct. 2.
Index devic. J. H. Rand. 1,469,534; Oct. 2.
Ingot of refractory metals and making same. J. A. Yunck. 1,469,761; Oct. 2.
Ink, Printing. G. W. Herbein. 1,469,414; Oct. 2.
Insulation, Kinetic heat. W. S. Hadaway, jr. 1,469,458; Oct. 2.
Insulation of high-tension coils, Method of and means for applying the. S. R. Wright. 1,469,469; Oct. 2.
Internal-combustion engine. E. T. Kershaw. 1,469,319; Oct. 2.
Irons, Thermostatic switching device for electric. F. Jermin. 1,469,727; Oct. 2.
Ironing board. A. Edwards. 1,469,456; Oct. 2.
Ironing board, Shirt-. C. E. Waream. 1,469,743; Oct. 2.
Ironing-board-supporting means. L. C. and E. H. Eddy. 1,469,629; Oct. 2.
Jar: *See*—
Rotary jar.
Jar-cover crimper. E. Bard. 1,469,403; Oct. 2.
Jewel settings, Truing. C. E. De Long. 1,469,500; Oct. 2.
Joint: *See*—
Flexible joint.
Keyboard apparatus, Instructional dummy practice-. H. H. Yelf. 1,469,750; Oct. 2.
Ladle mechanism, Casting-. J. B. Ladd. 1,469,223–5; Oct. 2.
Lamp. O. P. Muller and A. P. Popoff. Des. 63,111; Oct. 2.
Lamp, searchlight, and the like. J. G. Smith. 1,469,690; Oct. 2.
Lamp stand. F. A. Wyatt. Des. 63,116; Oct. 2.
Lamp, Switchboard. E. A. Bohlman. 1,469,208; Oct. 2.
Lasting machine. A. Bates. 1,469,244; Oct. 2.
Latch, Gravity. C. G. Palmer. 1,469,590; Oct. 2.
Lathe-controlling mechanism. H. L. Blood. 1,469,354; Oct. 2.
Lathe, Precision. P. Langhammer. 1,469,226; Oct. 2.
Laundry appliance. A. F. Hanney. 1,469,300; Oct. 2.
Legging. F. E. Tontutti. 1,469,286; Oct. 2.
Lemon squeezer. P. Juergensen. 1,469,514; Oct. 2.
Leveling machine, Automatic. L. W. Eversman. 1,469,502; Oct. 2.
Lever lock. A. C. Bryan. 1,469,406; Oct. 2.
Lighting-fixture spindle. H. T. Howell. Des. 63,102; Oct. 2.
Lighting-fixture plate. H. T. Howell. Des. 63,104; Oct. 2.
Lighting fixtures, Candle-plate body for. H. T. Howell. Des. 63,101; Oct. 2.
Lighting fixtures, Ceiling plate for. H. T. Howell. Des. 63,103; Oct. 2.
Lighting fixtures, Top for pan for. G. E. McFadden. Des. 63,109; Oct. 2.
Lime, Apparatus for hydrating. D. R. Bone. 1,469,209; Oct. 2.
Line-casting machine. T. F. Duff. 1,469,361; Oct. 2.
Lint and brush board, Adjustable. R. W. Haulbrook. 1,469,413; Oct. 2.
Liquid and gaseous fuel burner. J. A. Mahr. 1,469,326; Oct. 2.
Liquid-dispensing apparatus. J. A. Bryden. 1,469,617; Oct. 2.
Liquids, Supersaturating. B. Brazelle. 1,469,581; Oct. 2.
Lister, Two-row. L. W. Chase, W. R. McGeachin and J. C. Brand. 1,469,751–2; Oct. 2.
Lock: *See*—
Automobile steering-gear lock.
Coin-controlled lock. Steering-wheel lock.
Crib corner lock. Transmission lock.
Lever lock. Wheel lock.
Lock. A. C. and J. Messina. 1,469,233; Oct. 2.
Locomotive booster. L. E. Osborne and N. M. Lower. 1,469,526; Oct. 2.
Locomotive frame. B. S. Moore. 1,469,236; Oct. 2.
Loom. Haircloth. H. M. Schadewald. 1,469,338; Oct. 2.
Looms, Feeler mechanism for. W. I. Stimpson. 1,469,759; Oct. 2.
Looms, Grinding mechanism for the shear blades of tuft-fabric. E. F. Hathaway. 1,469,755; Oct. 2.
Looms, Letting-off mechanism for. W. Simmchen. 1,469,701; Oct. 2.
Looms, Warp stop mechanism for. E. S. Stimpson. 1,469,758; Oct. 2.
Lubricating device. R. I. Young. 1,469,760; Oct. 2.
Mail-bag-delivering apparatus. O. N. Braun, L. F. Nichols, and E. L. Underwood. 1,469,405; Oct. 2.
Mail box. J. A. Nicholas. 1,469,730; Oct. 2.
Manure loader. L. L. Meyer. 1,469,660; Oct. 2.
Mesh bag. H. B. Rowan. Des. 63,085–8; Oct. 2.
Metal-rolling machine. M. Keck. 1,469,726; Oct. 2.
Metal strip and apparatus therefor, Handling hot-. V. E. Edwards. 1,469,721; Oct. 2.
Metals, Treating molten. C. Vos. 1,469,706; Oct. 2.
Meter: *See*—
Gas meter. Radiator meter.
Mill and press. E. F. Happensack. 1,469,724; Oct. 2.
Mixing and beating machine. H. Trust and F. M. Ashley. 1,469,370; Oct. 2.
Molding press. J. E. Neumaier. 1,469,429; Oct. 2.
Mop. C. M. Williams. 1,469,568; Oct. 2.
Motor-control system. A. H. Candee. 1,469,210; Oct. 2.
Motor-control system. H. H. Johnston and D. C. Peabody. 1,469,219; Oct. 2.
Motor-cycle saddle or seat. F. Vetter. 1,469,742; Oct. 2.
Motor-meter-illuminating device. P. W. Pulig. 1,469,694; Oct. 2.
Motor stand. J. H. Staley. 1,469,734; Oct. 2.
Motors, Engine-reversing shaft in explosion. V. Rembold. 1,469,443; Oct. 2.
Mower. F. S. Thompson. 1,469,546; Oct. 2.
Mower, Lawn. J. W. Peters. 1,469,603; Oct. 2.
Nailing machine. J. C. Pashby. 1,469,529; Oct. 2.
Neck-wiping device. J. E. Johnson and C. H. Oslund. 1,469,599; Oct. 2.
Necktie holder. J. R. Anderson. Des. 63,064; Oct. 2.
Nut-cracking machine. T. S. Grimes. 1,469,641; Oct. 2.
Nut skinning. J. Gotzhein. 1,469,332. Oct. 2.
Oil burner, Superheating. S. J. Velton. 1,469,465; Oct. 2.
Oil burners, Overflow-controlled safety device for. J. Westall. No. 1,469,346; Oct. 2.
Oil, Reclaiming used. J. R. Miller. 1,469,426; Oct. 2.
Oil shale, Treatment of. R. C. Dundas and R. T. Howes. 1,469,628; Oct. 2.
Oiling device. E. Bolger. 1,469,616; Oct. 2.
Onion-set-distributing machine. A. D. Cramer. 1,469,293; Oct. 2.
Orchard heater. F. E. Simons. 1,469,540; Oct. 2.

Packaging apparatus. G. J. Huntley. 1,469,560; Oct. 2.
Packing box for potted plants. C. E. Risley. 1,469,536; Oct. 2.
Packing case. L. I. M. Bigby and J. R. Meikle. 1,469,615; Oct. 2.
Pads, Manufacturing excelsior. W. E. Leibing and L. C. Taggart. 1,469,420; Oct. 2.
Pan: *See*—
Frying pan. Sink pan.
Paper. C. S. Aagaard. Des. 63,062; Oct. 2.
Paper-trimming machine. C. Seybold and W. L. Valliquette. 1,469,733; Oct. 2.
Pastry shell. E. Franco. Des. 63,075; Oct. 2.
Permutation switch. L. F. Hymel. 1,469,651; Oct. 2.
Phonograph cabinet. H. A. Yerkes. Des. 63,095–6; Oct. 2.
Phonographs, Spring stylus mounting for. J. A. Brown. 1,469,452; Oct. 2.
Photographic development gauge. W. F. Herzberg. 1,469,415; Oct. 2.
Phoroptometer, Dynamic. C. E. H. Armbruster. 1,469,412; Oct. 12.
Picture frame. T. M. Kemper. Des. 63,081; Oct. 2.
Pilot-burner control. F. W. Powers. 1,469,394; Oct. 2.
Pin board. F. C. Washburn. 1,469,550; Oct. 2.
Pinch bar. W. E. Smiley and H. D. Ga Nung. 1,469,367; Oct. 2.
Pipe: *See*—
Smoking pipe.
Pipe and cigarette holder, Combination. P. J. Sitter. 1,469,276; Oct. 2.
Pipe joints, Calking machine for. W. H. Flint. 1,469,297; Oct. 2.
Pipe manufacturer. T. P. Anthony. 1,469,206; Oct. 2.
Piping and the like, by centrifugal casting, Machine for the manufacture of. F. Arens. 1,469,242; Oct. 2.
Piston for internal-combustion engines. M. H. Lutz, jr. 1,469,656; Oct. 2.
Planispheres. G. S. Kyle. 1,469,664; Oct. 2.
Plastic molding, Hot die for. E. M. Winter. 1,469,747; Oct. 2.
Plate-holding frame for bosh. J. Longo. 1,469,323; Oct. 2.
Pliers. E. A. Kaufman. 1,469,306; Oct. 2.
Plug gauge. E. G. Strong. 1,469,343; Oct. 2.
Pneumatic press follower. W. R. Gordon. 1,469,722; Oct. 2.
Poke, Animal. G. A. Bailey. 1,469,492; Oct. 2.
Pot: *See*—
Fire pot.
Potassium compounds, Extraction of. W. Glaeser. 1,469,507; Oct. 2.
Pottery-forming machine. M. Burger. 1,469,378; Oct. 2.
Poultry perch. J. Manchester. 1,469,441; Oct. 2.
Power-transmission device. E. R. Borden. 1,469,579; Oct. 2.
Power-transmission device. L. W. Sheldon. 1,469,700; Oct. 2.
Press: *See*—
Cheese press. Molding press.
Cotton press. Printing press.
Hydraulic press.
Printing machines, Inking mechanism for plate-. L. J. Swaim. 1,469,544; Oct. 2.
Printing press. W. M. Kelly. 1,469,515; Oct. 2.
Pulverulent material, Apparatus for handling. G. S. Comstock, jr. 1,469,311; Oct. 2.
Pulverulent material, such as artificial manure, Machine for cutting or breaking down masses of. J. D. Laidlaw. 1,469,718; Oct. 2.
Pump. C. W. Neupert. 1,469,365; Oct. 2.
Pump, Drill-lubricating. J. J. Thacher. 1,469,368; Oct. 2.
Pump mechanism. M. E. Layne and S. N. Hall. 1,469,419; Oct. 2.
Rack. T. Dubyk. 1,469,455; Oct. 2.
Radiator core. R. M. Christensen. 1,469,407; Oct. 2.
Radiator meter. M. W. Ryan and M. Uttendorfer. 1,469,444–5; Oct. 2.
Radio control system. A. L. Wilson. 1,469,349; Oct. 2.
Radiocabinet. L. E. Davis. Des. 63,099; Oct. 2.
Radioenergy, Circuit arrangement for receiving. E. Mayer and A. Leib. 1,469,328; Oct. 2.
Railway classification signal. F. F. Vandewater. 1,469,549; Oct. 2.
Razor-blade holder. H. L. E. Peterson. 1,469,604; Oct. 2.
Razor, Safety. A. S. Breakey and C. F. Pietsch. 1,469,715; Oct. 2.
Razor, Safety. J. H. Lacy. 1,469,309; Oct. 2.
Razor, Safety. E. L. Müller. 1,469,237; Oct. 2.
Receptacle, Locking. F. J. Miller. 1,469,390; Oct. 2.
Reciprocating traverse mechanism, Variable. S. R. Wright. 1,469,470; Oct. 2.
Reflectoscope. C. E. H. Armbruster. 1,469,411; Oct 2.
Refrigeration, Method and machine for. D. D. Myers. 1,469,729; Oct. 2.
Refrigerator or cold-storage room. A. H. Ehrlich. 1,469,631; Oct. 2.
Regulators, Pressed-metal fastening bracket for pipe-damper. J. Alsfasser. 1,469,375; Oct. 2.
Reproducers, Stylus mounting for. J. A. Brown. 1,469,451; Oct. 2.
Resilient wheel. M. O'Connor. 1,469,393; Oct. 2.
Resins and oleoresins, Preparation of artificial. H. Wuyts. 1,469,709; Oct. 2.
Ring: *See*—
Floss ring. Watchcase filler ring.
Rivet remover. W. S. Harley. 1,469,594; Oct. 2.
Roller. W. Ware. 1,469,344; Oct. 2.
Roller-rubbing washer. A. Gruhn. 1,469,314; Oct. 2.
Rolling mills, Roll of. L. Dostal. 1,469,410; Oct. 2.
Roofing product, Apparatus for making. H. A. Cumfer. 1,469,555; Oct. 2.
Rotary jar. J. A. Kammerdiner. 1,469,305; Oct. 2.
Reversible cushion. V. M. McGarvey. 1,469,523; Oct. 2.
Saddle, Cycle, motor-cycle, and analogous. A. H. Lawrence. 1,469,227; Oct. 2.
Safe or vault doors, and the like, Pressure system for. G. M. Goldsmith and C. P. Bartels. 1,469,638–9; Oct. 2.
Safety appliance. J. P. Tennis. 1,469,462; Oct. 2.
Safety device. W. E. James. 1,469,652; Oct. 2.
Salvaging method and apparatus. A. Allan. 1,469,574; Oct. 2.
Sandpapering roll. G. R. Keltie. 1,469,307; Oct. 2.
Sash stop, Window-. W. G. McGuire. 1,469,659; Oct. 2.
Sausage-stuffing machine. D. Brightbill. 1,469,377; Oct. 2.
Sawmill carriages, Apparatus for removing timbers from. W. H. Cooper. 1,469,498; Oct. 2.
Scale, Platform. M. H. Winslow. 1,469,402; Oct. 2.
Scissors. C. R. Storz. 1,469,283; Oct. 2.
Screen. F. L. Waterman. 1,469,490; Oct. 2.
Seal, Bag. N. V. Stansfield. 1,469,703; Oct. 2.
Seaming machine. H. M. Ross. 1,469,334; Oct. 2.
Sectional bin. U. S. Stewart. 1,469,609; Oct. 2.
Separating apparatus, Centrifugal. J. MacKaye. 1,469,230; Oct. 2.
Separating apparatus, Centrifugal. J. MacKaye. 1,469,522; Oct. 2.
Separator: *See*—
Cream separator.
Sewing-machine feeding mechanism. H. C. Moulton. 1,469,676; Oct. 2.
Sewing machines, Work-presenting mechanism for. H. C. Moulton. 1,469,675; Oct. 2.
Shaft coupling. F. G. Hughes. 1,469,304; Oct. 2.
Shaft coupling. C. W. Onderkirk. 1,469,527; Oct. 2.
Shaft coupling, Flexible. E. D. Tubbs. 1,469,738; Oct. 2.
Sharpener, Knife. A. Olson and A. Hast. 1,469,684; Oct. 2.
Sharpener, Pencil. H. Bernhard. 1,469,432; Oct. 2.
Shears for iron and similar materials. A. Wagenbach. 1,469,467; Oct. 2.
Sheet material, Machine for punching and riveting. A. R. Havener. 1,469,261; Oct. 2.
Sheet material, Method of and apparatus for finishing the edges of. N. V. Dyer. 1,469,255; Oct. 2.
Sheet-metal shovel. J. M. Ervin. 1,469,215; Oct. 2.
Shell-forming mechanism. V. Mauck. 1,469,565; Oct. 2.
Shingle. G. I. and J. L. Strachan. 1,469,543; Oct. 2.
Ships, Leak-closing device for. J. Espinosa de los Monteros. 1,469,624; Oct. 2.
Shoe. R. J. Reim. 1,469,697; Oct. 2.
Shoe-tree. J. C. Newlin. 1,469,238; Oct. 2.
Shoe, Turned. F. L. Ellison. 1,469,256; Oct. 2.
Shoes, Lasting. F. N. La Chapelle. 1,469,222; Oct. 2.
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Shredding machine. H. Trust and F. M. Ashley. 1,469,369; Oct. 2.
Sign. M. M. Feinberg. Des. 63,100; Oct. 2.
Sign. J. M. Schilling. 1,469,396; Oct. 2.
Signal: *See*—
Railway classification signal. Vehicle signal.
Theft signal. Water-level signal.
Signal casing, Direction-. E. Soulé. Des. 63,091; Oct. 2.
Signal device. C. C. Ferguson. 1,469,636; Oct. 2.
Signal recording and transcribing method and apparatus. M. R. Hutchison. 1,469,561; Oct. 2.
Sink pan. I. C. Abrams. 1,469,371; Oct. 2.
Sinter-machine drive mechanism. R. L. Lloyd. 1,469,521; Oct. 2.
Sintering machines, Cleaning device for ore-. R. L. Lloyd. 1,469,520; Oct. 2.
Skein, Wasteless. H. F. Hofer. 1,469,416; Oct. 2.
Slack adjuster. R. E. Adreon and C. P. Cass. 1,469,571–2; Oct. 2.
Smoking pipe. R. E. Perkins. 1,469,685; Oct. 2.
Socket wrench. C. G. Palmer. 1,469,589; Oct. 2.
Socket wrench. G. O. Leopold. 1,469,662; Oct. 2.
Spinning machinery, Drawing frame for. H. Tschudy. 1,469,548; Oct. 2.
Spool holder. J. E. Needham. 1,469,266; Oct. 2.
Spring clip. C. Colombani. 1,469,623; Oct. 2.
Spring-mounting. V. W. Pagé. 1,469,731; Oct. 2.
Spring quill-arm-supporting device. J. L. Crouse. 1,469,211; Oct. 2.
Sprinkler guard. A. C. Rowley. 1,469,336; Oct. 2.
Stamp, Trading. H. D. Adamy. Des. 63,063; Oct. 2.
Stamped materials, Apparatus for oiling. W. L. Pulson. 1,469,695; Oct. 2.
Stand: *See*—
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Staybolt for steam boilers. A. F. Pitkin. 1,469,688; Oct. 2.

Steam boilers, Flow-controlling means for. T. H. McGraw, jr. 1,469,389; Oct. 2.
Steering-wheel lock. G. L. Lukens. 1,469,655; Oct. 2.
Steering wheels, Brake-actuating mechanism for. E. J. W. Ragsdale. 1,469,484; Oct. 2.
Stitcher wheel and guard. J. W. Dirkson and L. E. Clough. 1,469,753; Oct. 2.
Stock-cutting apparatus. F. J. MacDonald. 1,469,325; Oct. 2.
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Bottle stopper.
Storage-battery system. R. H. Sullivan. 1,469,736; Oct. 2.
Stove. C. C. Tozier. 1,469,463; Oct. 2.
Stropping device. G. W. Walton. 1,469,468; Oct. 2.
Structural element and making the same. R. Kemp. 1,469,220; Oct. 2.
Sugar sacker, Automatic. E. H. Moraine. 1,469,673; Oct. 2.
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Switch. N. J. Conrad. 1,469,381; Oct. 2.
Syringe. B. F. Crisenberry. 1,469,764; Oct. 2.
Tank roof. A. A. Kramer. 1,469,321; Oct. 2.
Teapot. G. Barnett. Des. 63,065; Oct. 2.
Telegraph circuits, Carrier. R. W. Deardorff. 1,469,253–4; Oct. 2.
Telegraph circuits, Carrier. B. P. Hamilton. 1,469,259–60; Oct. 2.
Tensile-stress-determining device. K. Stahl. 1,469,280; Oct. 2.
Testing system. H. Fletcher. 1,469,271; Oct. 2.
Textile fabric. J. S. Boyd. Des. 63,067–9; Oct. 2.
Textile fabric. J. Leiper. Des. 63,082; Oct. 2.
Textile fabric. M. Rothschild. Des. 63,084; Oct. 2.
Theft signal. L. R. Zepka. 1,469,570; Oct. 2.
Thermostat, Registering. R. S. Burdette. 1,469,552; Oct. 2.
Tie fastener. D. G. Galbraith. 1,469,298; Oct. 2.
Timer extension. L. W. Lockwood. 1,469,440; Oct. 2.
Tire. G. H. W. Lindhorst. 1,469,670; Oct. 2.
Tire-building machine (horizontal adjustment). W. H. Hermann. 1,469,272; Oct. 2.
Tire, Pneumatic. S. B. Robertson. Des. 63,112; Oct. 2.
Tire, Pneumatic. J. D. Tew. Des. 63,115; Oct. 2.
Tire rack for automobiles. L. A. Nares. Re15,695; Oct. 2.
Tire spreader. P. R. Battaline. 1,469,473; Oct. 2.
Tire tread. J. M. Cranz. Des. 63,073; Oct. 2.
Tire-valve tubes, Cap for. C. F. Cunningham. 1,469,250; Oct. 2.
Tire, Vehicle. G. U. Blaser. Des. 63,097; Oct. 2.
Tire, Vehicle wheel. E. McCoy. Des. 63,107; Oct. 2.
Tires, Protective cover for automobile. C. J. Escoto. 1,469,633; Oct. 2.
Toll-collecting mechanism. G. A. Richards, jr. 1,469,535; Oct. 2.
Torch, Oxyacetylene. F. J. Napolitan. 1,469,392; Oct. 2.
Toy. M. F. Piercy. 1,469,605; Oct. 2.
Toy. W. J. Vanwinkle. 1,469,705; Oct. 2.
Toy gun. G. Ustynik. 1,469,610; Oct. 2.
Toy, Mechanical. C. Zabel. 1,469,710; Oct. 2.
Tool, Combination. N. Raez. 1,469,696; Oct. 2.
Track-circuit rails, Multiple bond for signal-service. C. O. Harrington. 1,469,302; Oct. 2.
Track surface and cleaner. P. Ursino. 1,469,464; Oct. 2.
Traction-wheel drive gearing. F. V. Elbertz. 1,469,433; Oct. 2.
Train-control system, Automatic. C. S. Bushnell. 1,469,248; Oct. 2.
Train-control system, Automatic. L. E. Dodge and N. D. Preston. 1,469,408; Oct. 2.
Translational movement, Device for producing relative. H. Egg. 1,469,630; Oct. 2.
Transmission lock. O. Carroll. 1,469,620; Oct. 2.
Transmission unit. P. T. Robin. 1,469,538; Oct. 2.
Tray. J. W. Hoodwin. 1,469,596; Oct. 2.
Tree: *See*—
Shoe-tree.
Trolley-line cut-out, Car-controlled. J. H. Miller. 1,469,672; Oct. 2.
Trolley wheel. O. Moore. Re15,693; Oct. 2.
Trough, Folding animal-operating. W. F. Christopher. 1,469,496; Oct. 2.
Trousers supporter. T. J. North. 1,469,682; Oct. 2.
Truck caster wheel. E. A. Smithfield and W. H. Noelting. 1,469,397; Oct. 2.
Truck hoist. F. R. Hewel. 1,496,642; Oct. 2.
Truck hoist. W. H. Remsen. 1,469,732; Oct. 2.
Tobacco-measuring machine. G. J. Feasler. 1,469,635; Oct. 2.
Tube-forming machine. F. M. Case. 1,469,584; Oct. 2.
Tube rolling mill, Continuous. R. E. Brock. Re15,692; Oct. 2.
Tube splices, Method and apparatus for vulcanizing inner-. H. D. Stevens. 1,469,342; Oct. 2.
Tubes, Means for distorting. A. Vasselli. 1,469,489; Oct. 2.
Tubes, Puncturing attachment for collapsible. G. S. Turner. 1,469,739; Oct. 2.
Turbine, Multistage. H. H. Wait. 1,469,707; Oct. 2.
Turbine rotors, Manufacturing. J. Weishäupl. 1,469,566; Oct. 2.
Typewriters, Ribbon spool for. O. A. Hokanson. 1,469,386; Oct. 2.
Typewriting machine. J. B. Holden. 1,469,477; Oct. 2.
Typewriting machine. R. J. Orr. 1,469,482; Oct. 2.
Typewriting machines, Type cleaner for. C. E. and J. M. Ericson. 1,469,632; Oct. 2.
Umbrella rib and stretcher and attaching means therefor. C. E. Bunker. 1,469,495; Oct. 2.
Umbrella stand. J. Muller. Des. 63,083; Oct. 2.
Upholstery for seat backs. B. E. Lambert. 1,469,263; Oct. 2.
Upholstering machine. H. H. Ingersoll. 1,469,513; Oct. 2.
Urn, Grave. T. W. Quigley. 1,469,459. Oct. 2.
Valve. S. J. Nordstrom. 1,469,762; Oct. 2.
Valve-casing cap. F. J. Lenz. 1,469,421; Oct. 2.
Valve, Control. C. Lejeune. 1,469,228; Oct. 2.
Valve-operating mechanisms of internal-combustion engines, Guide member for. C. R. Short. 1,469,270; Oct. 2.
Valves of containers, Protector for. C. L. Rowland. 1,469,646; Oct. 2.
Vanity article, Combination. N. Kasdan and D. Pollack. 1,469,562; Oct. 2.
Vanity case. E. A. McArthur. 1,469,524; Oct. 2.
Vegetable and fruit peeling device. H. Sletto. 1,469,650; Oct. 2.
Vehicle body. A. A. Kramer. 1,469,320; Oct. 2.
Vehicle brake. K. Maybach. 1,469,232; Oct. 2.
Vehicle drawbar. W. D. Giddings. 1,469,505; Oct. 2.
Vehicle frame. R. M. Lovejoy. 1,469,310; Oct. 2.
Vehicle sanding apparatus. L. J. Duffner. 1,469,627; Oct. 2.
Vehicle signal. P. J. Messer. 1,469,481; Oct. 2.
Vehicle top. C. and L. Gillig. 1,469,331; Oct. 2.
Vehicle wheel, Metallic. J. R. Welch. 1,469,746; Oct. 2.
Vehicles, Brake mechanism for motor. F. A. Bower. 1,469,247; Oct. 2.
Vehicles, Regenerative braking system for electrically-driven. H. Lilbeck. 1,469,264; Oct. 2.
Ventilator. G. W. Bender. 1,469,577; Oct. 2.
Vise. M. Dean. 1,469,454; Oct. 2.
Voile fabric, Flocked. E. B. Vandergaw and J. Meinrich. Des. 63,092–3; Oct. 2.
Wagon, Dump. B. Gershovitz. 1,469,637; Oct. 2.
Warping machine. B. Schram. 1,469,339; Oct. 2.
Washer: *See*—
Roller-rubbing washer.
Washing machine. G. S. Blakeslee. 1,469,207; Oct. 2.
Washing machine. J. D. Standefer and J. H. Stidham. 1,469,541; Oct. 2.
Watchcase filler ring. A. L. Stearns and A. W. Hofmann. 1,469,735; Oct. 2.
Water-level signal. E. J. Leightham. 1,469,518; Oct. 2.
Waterproof boot. D. Bojtos. 1,469,291; Oct. 2.
Waterproof product and making same. C. E. Rahr and L. Kirschbraun. 1,469,606; Oct. 2.
Wattmeter, Induction. J. Harris. 1,469,558; Oct. 2.
Wheel: *See*—
Abrasive wheel. Trolley wheel.
Disk wheel. Truck caster wheel.
Resilient wheel. Vehicle wheel.
Wheel. W. B. Minch. 1,469,265; Oct. 2.
Wheel. G. Walther. 1,469,288; Oct. 2.
Wheel lock, Emergency. D. C. Rose. 1,469,269; Oct. 2.
Wind instruments, Lip-pressure-correcting device for. C. R. Campbell. 1,469,583; Oct. 2.
Window. S. Cherwin. 1,469,621; Oct. 2.
Window attachment. M. K. Adcock. 1,469,241; Oct. 2.
Window frame, Auto. J. A. McAvoy. 1,469,229; Oct. 2.
Window lock and alarm. R. Salamon. 1,469,446; Oct. 2.
Windshield wing. N. T. Albright. 1,469,372; Oct. 2.
Windshield-wing construction. B. J. Hubbard. 1,469,387; Oct. 2.
Wire-joining tool. S. F. Bauwens. 1,469,711; Oct. 2.
Wood material and product thereof, Treatment of. V. H. Forssman. 1,469,362; Oct. 2.
Wrench: *See*—
Fruit-jar wrench. Socket wrench.
Wrench. H. D. Rahling. 1,469,533; Oct. 2.
Wrist support. H. H. Hansard. 1,469,315; Oct. 2.
Wrought iron, Making. J. Aston. 1,469,374; Oct. 2.
Wrought iron, Manufacture of. J. Aston. 1,469,373; Oct. 2.
Yarn clearer and cleaner. J. H. Marsh. 1,469,423; Oct. 2.

CLASSIFICATION OF PATENTS

ISSUED OCTOBER 2, 1923.

NOTE.—First number=class, second number=subclass, third number=patent number.

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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A. L. T. Rustic Company, Belvedere, Ill. Ornamental stonework articles. 174,258; Oct. 9; Serial No. 177,518; published July 10, 1923.

Albemarle Paper Mfg. Co., The, Richmond, Va. Matrix paper, stereotype and kraft wrapping paper. 174,250; Oct. 9; Serial No. 162,280; published Aug. 8, 1922.

Alderman, Fairchild Company, Rochester, N. Y. Game. 174,187; Oct. 9; Serial No. 181,050; published July 17, 1923.

Alert Manufacturing Company. (See Haeseler, Charles H.)

Allan-Diffenbaugh Wrench & Tool Co., Baraboo, Wis. Pliers and wrenches. 174,308; Oct. 9.

Allen, Edward E., Mfg. Co., Chicago, Ill. Wood paste filler, oil colors, enamel, etc. 174,279; Oct. 9; Serial No. 179,078; published July 10, 1923.

American Lady Corset Company, Detroit, Mich. Corsets, corset waists, brassières, hose supporters, etc. 174,170; Oct. 9; Serial No. 179,916; published July 17, 1923.

Amory, Browne & Co., Boston, Mass. Textile cotton fabrics. 174,192; Oct. 9; Serial No. 181,103; published July 17, 1923.

Ansco Company, Binghamton, N. Y. Photographic films. 174,183–4; Oct. 9; Serial No. 178,806–7; published July 10, 1923.

Ansco Company, Binghamton, N. Y. Photographic films. 174,186; Oct. 9; Serial No. 178,805; published July 10, 1923.

Arabol Manufacturing Co., The, New York, N. Y. Powdered vegetable glues. 174,208–9; Oct. 9; Serial No. 179,641–2; published July 10, 1923.

Artists Brush and Color Corporation, New York, N. Y. Artists' materials. 174,266; Oct. 9; Serial No. 175,454; published July 10, 1923.

Atlantic Elevator Company, Inc., Philadelphia, Pa. Hoisting rope and cable. 174,218; Oct. 9; Serial No. 181,051; published July 10, 1923.

Banner Silk Knitting Mills, Inc., The, New York, N. Y. Knitted silk fabrics. 174,157; Oct. 9; Serial No. 180,781; published July 17, 1923.

Banner Silk Knitting Mills, Inc., The, New York, N. Y. Knitted silk fabrics. 174,185; Oct. 9; Serial No. 180,784; published July 17, 1923.

Barsa Corporation, The, New York, N. Y. Kimonos, breakfast gowns, etc. 174,274; Oct. 9; Serial No. 178,021; published July 10, 1923.

Bartow Beverages, Inc., Nashville, Tenn. Ginger ale. 174,223; Oct. 9; Serial No. 180,832; published July 10, 1923.

Beck & Truelove, Jackson, Miss., assignor to Hi-Power Company of New Jersey, Hoboken, N. J. Recharging fluid for storage batteries. 174,307; Oct. 9.

Becker Paper Corporation, New York, N. Y. Writing and bond paper. 174,276; Oct. 9; Serial No. 178,208; published July 17, 1923.

Bernd, G., Company, Macon, Ga. Horse collars. 174,217; Oct. 9; Serial No. 181,053; published July 10, 1923.

Beverage Extract Company, Chicago, Ill. Beverage sold as soft drink and a compound for making same. 174,179; Oct. 9; Serial No. 179,513; published July 17, 1923.

"Big Four" Chemical Products Co. (See Milgram, Morris M.)

Blum & Mittenthal, New York, N. Y. Ladies' hand bags. 174,243; Oct. 9; Serial No. 179,847; published July 10, 1923.

Botany Worsted Mills, Passaic, N. J. Worsted yarn fabric known as reps. 174,165–6; Oct. 9; Serial Nos. 179,987–8; published July 17, 1923.

Bownes, Frank, Company, Inc., Lynn, Mass. Varnish. 174,216; Oct. 9; Serial No. 181,054; published July 10, 1923.

Brown, George G., New York, N. Y. Carburetors. 174,173; Oct. 9; Serial No. 179,774; published July 17, 1923.

Brownstein-Louis Co., Los Angeles, Calif. Shirts, pyjamas, nightgowns. 174,293; Oct. 9.

Burns, Jabez, & Sons, New York, N. Y. Roasters and parts and supplies for same. 174,160; Oct. 9; Serial No. 180,325; published July 17, 1923.

Butler, J. W., Paper Co., The, Chicago, Ill. Print, book, bond, and writing paper, etc. 174,222; Oct. 9; Serial No. 180,838; published July 10, 1923.

Butler, J. W., Paper Co., The, Chicago, Ill. Papers, bristol board, cardboard. 174,242; Oct. 9; Serial No. 179,926; published July 17, 1923.

Cahill & Malone, doing business as Everite Patch Company, Toledo, Ohio. Tire-repair compounds, adhesives, etc. 174,205; Oct. 9; Serial No. 179,708; published July 10, 1923.

California Table Fruit Co., Reedley, Calif. Fresh grapes. 174,311; Oct. 9.

Chadwick-Boston Lead Company, Boston, Mass. White lead. 174,267; Oct. 9; Serial No. 175,344; published July 10, 1923.

Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics of silk. 174,193; Oct. 9; Serial No. 181,061; published July 17, 1923.

Chester Knitting Mills, St. Louis, Mo. Hosiery. 174,268; Oct. 9; Serial No. 174,654; published July 10, 1923.

Chicago Flexible Shaft Company, Chicago, Ill. Electric toaster grills. 174,305; Oct. 9.

Chipman Knitting Mills, Easton, Pa. Hosiery. 174,262; Oct. 9; Serial No. 177,359; published July 10, 1923.

Cohn Hall Marx Co., New York, N. Y. Cotton piece goods. 174,202; Oct. 9; Serial No. 180,963; published July 17, 1923.

Colonial Works, Brooklyn, N. Y. Paste paint and ready-mixed paint. 174,238; Oct. 9; Serial No. 180,097; published July 3, 1923.

Colson Company, The, Elyria, Ohio. Children's three-wheeled vehicles. 174,303; Oct. 9.

Cooper, H. H., & Co., Inc., Utica, N. Y. Suits, topcoats, and ulsters for men. 174,270; Oct. 9; Serial No. 174,560; published July 10, 1923.

Corticelli Silk Company, Florence, Northampton, Mass. Silk fabrics. 174,158; Oct. 9; Serial No. 180,590; published July 17, 1923.

Dillon, Charles G., New York, N. Y. Beverage sold as a soft drink and sirups for making the same. 174,177; Oct. 9; Serial No. 179,590; published July 17, 1923.

Duplan Silk Corporation, New York, N. Y. Silk piece goods. 174,188–9; Oct. 9; Serial Nos. 181,255–6; published July 17, 1923.

Eastman Kodak Company, Rochester, N. Y. Photographic shutters. 174,199; Oct. 9; Serial No. 180,846; published July 10, 1923.

Eddy, D., and Sons Company, Boston, Mass. Refrigerating apparatus. 174,241; Oct. 9; Serial No. 179,994; published July 3, 1923.

Einstein, J., Inc., New York, N. Y. Cotton, duck, and canvas piece goods. 174,156; Oct. 9; Serial No. 180,793; published July 17, 1923.

Electric Furnace Company, The, Salem, Ohio. Electric melting, heating, and heat-treating furnaces. 174,298; Oct. 9.

Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. 174,191; Oct. 9; Serial No. 181,178; published July 17, 1923.

Everite Patch Company. (See Cahill & Malone.)

Farnsworth Mills Inc., The, Central Village, Conn. Woolen piece goods. 174,203; Oct. 9; Serial No. 180,969; published July 17, 1923.

Fort Howard Paper Company, Green Bay, Wis. Toilet paper, paper napkins, towels, and tablecloths. 174,220–1; Oct. 9; Serial Nos. 180,971–2; published July 17, 1923.

Fox River Paper Company, Appleton, Wis. Writing paper. 174,219; Oct. 9; Serial No. 180,975; published July 17, 1923.

Fox River Paper Company, Appleton, Wis. Writing paper. 174,232; Oct. 9; Serial No. 180,533; published July 10, 1923.

French Mfg. Co. (See Smuckler, K.)

Garner Gin Company, Inc., Houston, Tex. Machines for breaking, opening, etc., cotton and other fibrous materials. 174,304; Oct. 9.

Gestetner, D., Limited, London, England. Duplicating apparatus and accessories thereto, etc. 174,275; Oct. 9; Serial No. 178,175; published July 10, 1923.

Gleckner, W. W., & Sons Co., Canton, Pa. Harness, collars, saddlery, and parts thereof. 174,282; Oct. 9; Serial No. 179,267; published July 10, 1923.

Golding Fabrics Corporation, New York, N. Y. Fabrics made of silk. 174,190; Oct. 9; Serial No. 181,183; published July 17, 1923.

Golding Fabrics Corporation, New York, N. Y. Fabrics made of silk. 174,200; Oct. 9; Serial No. 180,859; published July 17, 1923.

Goldman, Harry W., doing business as The Harry W. Goldman Co., Baltimore, Md. Middy blouses, ladies', children's, and misses' dresses, knickers, boys' suits, etc. 174,260; Oct. 9; Serial No. 177,484; published July 3, 1923.

Gruen Watch Company, The, Cincinnati, and Time Hill, Cincinnati, Ohio. Watches, watchcases, and watch movements. 174,290–1; Oct. 9.

Haeseler, Charles H., doing business as Alert Manufacturing Company, Philadelphia, Pa. Condiment containers. 174,244; Oct. 9; Serial No. 172,834; published July 3, 1923.

Heidelberg, Wolff & Co., New York, N. Y. Overcoats, raincoats, smoking jackets, house coats, etc. 174,175; Oct. 9; Serial No. 179,722; published July 17, 1923.

Herman, John C., & Company, Harrisburg, Pa. Cigars. 174,176; Oct. 9; Serial No. 179,599; published July 17, 1923.

Hillerich & Bradsby Co., Inc., Louisville, Ky. Baseball bats. 174,159; Oct. 9; Serial No. 180,430; published July 17, 1923.
Hi-Power Company of New Jersey. (See Beck & Truelove.)
Hirshfeld, Jacob B., doing business as J. B. Hirshfeld & Co., Inc., New York, N. Y. Knitted and nainsook underwear, hosiery, and sweaters. 174,264; Oct. 9; Serial No. 176,184; published July 17, 1923.
Hudson Cloak & Suit Store, Paterson, N. J.; Bridgeport, New Haven, and Hartford, Conn.; Boston, Mass.; Rochester, N. Y.; and Washington, D. C. Ladies' suits, coats, gowns, etc. 174,309; Oct. 9.
Hutton, Asbury B., Philipsburg, Pa. Grease compound for lubricating purposes. 174,240; Oct. 9; Serial No. 180,009; published July 10, 1923.
I. C. Refrigeration Co., New York, N. Y. Refrigeration cabinets. 174,233; Oct. 9; Serial No. 180,477; published July 17, 1923.
Indiana Indestructible Paint Co., Chicago, Ill. Dry, ready-mixed, and paste paint. 174,255; Oct. 9; Serial No. 146,555; published Aug. 8, 1922.
Ironall Factories Co., The, Cincinnati, Ohio. Overalls, coats, pants, jumpers, combination one-piece suits, and pantaloons for men and play suits for children. 174,248; Oct. 9; Serial No. 164,707; published July 3, 1923.
Joliet Manufacturing Company, Joliet, Ill. Corn shellers. 174,162; Oct. 9; Serial No. 180,223; published July 17, 1923.
Jones, George C., Incorporated, New York, N. Y. Fertilizer. 174,228; Oct. 9; Serial No. 180,704; published July 10, 1923.
Joseph, S., & Son, Co., Philadelphia, Pa. Ready-mixed paints, varnishes, fillers, and shellacs. 174,235; Oct. 9; Serial No. 180,285; published July 10, 1923.
Kafka, David A., doing business as Midwest Auto Specialty Mfg. Co., St. Paul, Minn. Oil gauges. 174,204; Oct. 9; Serial No. 181,029; published July 10, 1923.
Katten, Arthur A., Co., New Orleans, La. Children's overalls. 174,300; Oct. 9.
Knitwear Manufacturing Co., Inc., Brooklyn, N. Y. Knitted sweaters and dress skirts. 174,252; Oct. 9; Serial No. 157,431; published July 3, 1923.
Levi Strauss & Co., San Francisco, Calif. Men's, youths', and boys' shirts. 174,254; Oct. 9; Serial No. 153,477; published July 3, 1923.
Lewis-Wise Co., Inc., New York, N. Y. Men's robes. 174,272; Oct. 9; Serial No. 179,873; published July 17, 1923.
Lovinger-Schwartz Co., The, Cleveland, Ohio. Ladies' dresses. 174,288; Oct. 9; Serial No. 179,414; published July 10, 1923.
McKee, William, Minneapolis, Minn. Beverage sold as a soft drink. 174,171; Oct. 9; Serial No. 179,876; published July 17, 1923.
Mallas Cravis Co., New York, N. Y. Women's and misses' dresses. 174,265; Oct. 9; Serial No. 176,029; published July 10, 1923.
Meigs & Co. Inc., Boston, Mass., and Bridgeport, Conn. Overcoats. 174,286; Oct. 9; Serial No. 179,376; published July 10, 1923.
Miami Optical Co. (See Smith, Noel.)
Midwest Auto Specialty Mfg. Co. (See Kafka, David A.)
Migel, J. A., Inc., North Bergen, N. J., and New York, N. Y. Silk and wool fabrics and mixtures thereof in the piece. 174,259; Oct. 9; Serial No. 177,505; published May 29, 1923.
Milgram, Morris M., doing business as "Big Four" Chemical Products Co., Indiana Harbor, Ind. Shampoo. 174,314; Oct. 9.
Millidale Textile Corporation, New York, N. Y. Cotton piece goods. 174,155; Oct. 9; Serial No. 181,032; published July 17, 1923.
Miller Brothers Company, Chattanooga, Tenn. Hosiery. 174,280; Oct. 9; Serial No. 179,158; published July 10, 1923.
Miller, Elmer F., San Francisco, Calif. Paint remover. 174,247; Oct. 9; Serial No. 166,747; published July 10, 1923.
Miller's Book Store, Inc., Atlanta, Ga. Fountain pens. 174,287; Oct. 9; Serial No. 179,377; published July 3, 1923.
Miller's, Jacob, Sons Co., Philadelphia, Pa. Cotton, silk, linen, etc., goods in the piece. 174,195; Oct. 9; Serial No. 181,036; published July 17, 1923.
Miller's, Jacob, Sons Co., Philadelphia, Pa. Cotton, silk, linen, etc., goods in the piece. 174,196–7; Oct. 9; Serial Nos. 181,033–4; published July 17, 1923.
Milwaukee Air Power Pump Company, Milwaukee, Wis. Pneumatic water pumping and supply systems and apparatus therefor. 174,295–6; Oct. 9.
Moore, Benjamin, & Co., Jersey City, N. J., and Brooklyn, N. Y. Varnish. 174,227; Oct. 9; Serial No. 180,769; published July 10, 1923.
Nack, Anthony W., Washington, D. C. Gloves, hosiery, and underwear. 174,249; Oct. 9; Serial No. 164,660; published Feb. 13, 1923.
National Electric Products Corporation, Chicago, Ill. Refrigerators and parts and refrigerating systems. 174,263; Oct. 9; Serial No. 177,140; published July 3, 1923.
Neuss, Hesslein & Co., Inc., New York, N. Y. Printed, bleached, gray, etc., cotton piece goods. 174,201; Oct. 9; Serial No. 180,882; published July 17, 1923.
Noeating Pin Ticket Company, Incorporated, Mount Vernon, N. Y. Paper clips. 174,225; Oct. 9; Serial No. 180,805; published July 10, 1923.
Optical Specialty Manufacturing Company, Southbridge, Mass. Ophthalmic mountings and parts thereof. 174,178; Oct. 9; Serial No. 179,548; published July 10, 1923.
Osterwell Bros. Inc., Newark, N. J. Trunks. 174,226; Oct. 9; Serial No. 180,771; published July 10, 1923.
Otis Chemical Company, (Not Inc.), Chicago, Ill. Lubricating compounds and greases. 174,215; Oct. 9; Serial No. 181,087; published July 10, 1923.
Page & Shaw, Incorporated, Cambridge, Mass. Transparent containers for food products. 174,213; Oct. 9; Serial No. 179,424; published July 3, 1923.
Peerless Mfg. Co., The, Toilet paper. 174,207; Oct. 9; Serial No. 179,679; published July 10, 1923.
Pung-Chow Company, Inc., New York, N. Y. Games and parts thereof. 174,168–9; Oct. 9; Serial Nos. 179,955–6; published July 17, 1923.
Reid Bros., Inc., San Francisco, Calif., and Seattle, Wash. Metal and wood aseptic furniture. 174,246; Oct. 9; Serial No. 168,790; published July 3, 1923.
Richmond Hosiery Mills, Rossville, Ga. Hosiery. 174,253; Oct. 9; Serial No. 154,760; published May 22, 1923.
Richter Card & Paper Co., Inc., New York, N. Y. Announcements. 174,281; Oct. 9; Serial No. 179,224; published July 3, 1923.
Ringler, William A., Philadelphia, Pa. Receipt books and filing cards for bookkeeping purposes. 174,251; Oct. 9; Serial No. 160,434; published July 10, 1923.
Robischon Corporation, New York, N. Y. Hosiery. 174,210; Oct. 9; Serial No. 179,557; published July 10, 1923.
Rome Wire Company, Rome, N. Y. Reenforced insulated electric cables. 174,302; Oct. 9.
Rubber & Celluloid Products Company, doing business as Rubberset Company, Newark, N. J. Shaving brushes. 174,167; Oct. 9; Serial No. 179,962; published July 17, 1923.
Rubberset Company. (See Rubber & Celluloid Products Company.)
Safelock Co., Inc., The, Cleveland, Ohio. Locks for automobile steering wheels. 174,292; Oct. 9.
Safe-T-Stat Co., The, Philadelphia, Pa. Thermoelectric temperature indicators. 174,163; Oct. 9; Serial No. 180,143; published July 10, 1923.
Sanderson, Arthur N., West Springfield, Mass. Automobile, piano, and furniture polish. 174,239; Oct. 9; Serial No. 180,082; published July 3, 1923.
Schrader's, A., Son, Incorporated, Brooklyn, N. Y. Fluid-pressure gauges, indicators, etc. 174,164; Oct. 9; Serial No. 180,084; published July 10, 1923.
Schrader's, A., Son, Incorporated, Brooklyn, N. Y. Ice bags and syringe fixtures. 174,236; Oct. 9; Serial No. 180,243; published July 10, 1923.
Schuster Company, The, Cleveland, Ohio. Beverages and syrups for making same. 174,301; Oct. 9.
Sewall Paint & Glass Company, Kansas City, Mo. Varnishes, varnish stain, enamels, etc. 174,224; Oct. 9; Serial No. 180,814; published July 10, 1923.
Shapiro, Louis, doing business as Louis Shapiro & Co., New York, N. Y. Men's ready-made suits and overcoats. 174,257; Oct. 9; Serial No. 177,626; published July 10, 1923.
Shapiro, Louis, doing business as Louis Shapiro & Co., New York, N. Y. Men's ready-made suits and overcoats. 174,272; Oct. 9; Serial No. 177,627; published July 10, 1923.
Simon, N., & Co., Chicago, Ill. Apron dresses. 174,174; Oct. 9; Serial No. 179,748; published July 17, 1923.
Simpson, Wm., Sons & Co., Philadelphia, Pa. Cotton goods in the piece. 174,289; Oct. 9.
Sipe, James B., & Company, Pittsburgh, Pa., Primer paint for metal surfaces. 174,283; Oct. 9; Serial No. 179,325; published July 3, 1923.
Sipe, James B., & Company, Pittsburgh, Pa. Paste paint. 174,284; Oct. 9; Serial No. 179,326; published July 3, 1923.
Sipe, James B., & Company, Pittsburgh, Pa. Paint oil to be added to paint. 174,285; Oct. 9; Serial No. 179,331; published July 3, 1923.
Smith, Noel, doing business as Miami Optical Co., Miami, Fla. Lenses, eyeglasses, and spectacles. 174,198; Oct. 9; Serial No. 180,815; published July 10, 1923.
Smith Oil & Refining Company, Rockford, Ill. Cutting oil. 174,231; Oct. 9; Serial No. 180,629; published July 10, 1923.
Smuckler, K., doing business as French Mfg. Co., Los Angeles, Calif. Automobile and piano polish. 174,256; Oct. 9; Serial No. 173,939; published July 3, 1923.
Stamper & Kaiser, New York, N. Y. Hosiery. 174,273; Oct. 9; Serial No. 177,630; published July 10, 1923.
Star Can Opener Company, San Francisco, Calif. Can openers. 174,161; Oct. 9; Serial No. 180,307; published July 17, 1923.
Steelcraft Corporation of America, Cleveland, Ohio. Safes. 174,182; Oct. 9; Serial No. 179,890; published July 10, 1923.

Stein, S., & Co., New York, N. Y. Woolen cloths in the piece. 174,294; Oct. 9.
Steinfeld, Inc., New York, N. Y. Ice-cream freezers. 174,278; Oct. 2; Serial No. 178,574; published July 17, 1923.
Superior Athletic Underwear Company, The, Piqua, Ohio. Union and combination suits, undershirts, underdrawers. 174,269; Oct. 9; Serial No. 174,642; published July 10, 1923.
Sweet-Orr & Co., Inc., Wappingers Falls and New York, N. Y. Pants, Norfolk jackets, coats, and vests. 174,271; Oct. 9; Serial No. 174,221; published July 3, 1923.
Taylor, Clapp & Beall, New York, N. Y. Cotton piece goods. 174,194; Oct. 9; Serial No. 181,048; published July 17, 1923.
Taylor Instrument Companies, Rochester, N. Y. Barometers. 174,180; Oct. 9; Serial No. 179,495; published July 10, 1923.
Thomas, Elizabeth M., doing business as E. M. Thomas Company, St. Louis, Mo. Ladies' and misses' dresses. 174,206; Oct. 9; Serial No. 179,688; published July 10, 1923.
Thommen's Inc., Philadelphia, Pa. Cake. 174,297; Oct. 9.
Tighe, Loretta F., New York, N. Y. Corsets, brassières, corselettes. 174,306; Oct. 9.
United Hosiery Mills Corporation, Chattanooga, Tenn. Hosiery. 174,312; Oct. 9.
United States Hosiery Co., Reading, Pa. Hosiery. 174,310; Oct. 9.
Van Ess Laboratories, Inc., Chicago, Ill. Massage preparations or tonics for the treatment of the head and scalp. 174,214; Oct. 9; Serial No. 166,487; published May 29, 1923.
Vortex Mfg. Co., The, Chicago, Ill. Metal holders for paper dishes and dispensing receptacles for paper dishes. 174,234; Oct. 9; Serial No. 180,311; published July 3, 1923.
Washington Manufacturing Co., Nashville, Tenn. Work shirts and overalls. 174,211; Oct. 9; Serial No. 179,502; published July 10, 1923.
Wendling, George X., San Francisco, Calif. Box shooks. 174,277; Oct. 9; Serial No. 178,318; published July 3, 1923.
Westphono Incorporated, St. Paul, Minn. Combination library table and phonograph, phonographs, etc. 174,313; Oct. 9.
Whiting Paper Company, Holyoke, Mass. Writing papers, mailing envelopes, and printing papers. 174,237; Oct. 9; Serial No. 180,161; published July 3, 1923.
Wilber, M., Dyer Company, The, New York, N. Y. Pyjamas. 174,212; Oct. 9; Serial No. 179,463; published July 10, 1923.
Williams & Robechaud, Milwaukee, Wis. Auto locks. 174,181; Oct. 9; Serial No. 180,570; published July 10, 1923.
Wise-McClung Manufacturing Company, The, New Philadelphia, Ohio. Electric suction cleaner. 174,299; Oct. 9.
Wish, Fred A., Incorporated, New York, N. Y. Stationery. 174,229; Oct. 9; Serial No. 180,641; published July 10, 1923.
Wish, Fred A., Incorporated, New York, N. Y. Metal and paper fancy containers and boxes. 174,230; Oct. 9; Serial No. 180,638; published July 3, 1923.
Wright, G. F., Steel & Wire Company, Worcester, Mass. Wire rope and clothesline. 174,245; Oct. 9; Serial No. 169,510; published July 10, 1923.
Wuest, Andrew A., Cincinnati, Ohio. Boys' and girls' hosiery. 174,261; Oct. 9; Serial No. 177,419; published July 10, 1923.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Bardell, J. C., doing business as Bardell Art Printing Co., San Francisco, Calif. Bardell Fototone Miniatures. For Miniature Post Cards. 26,468; Oct. 9.
Barnard, Paul J., doing business as Paul Jackson Barnard Company, Los Angeles, Calif. Capt. Jack's Sand Ship. For Toys—Namely, Miniature Ships. 26,469; Oct. 9.
Boyd, C. G., doing business as C. G. Boyd Drug & Chemical Company, Chattanooga, Tenn. Sinco. For an Herb Remedy. 26,470; Oct. 9.
Boyd, C. G., doing business as C. G. Boyd Drug & Chemical Company, Chattanooga, Tenn. Cinco. For an Herb Remedy. 26,471; Oct. 9.
Canada Dry Ginger Ale, Inc., New York, N. Y. Canada Dry (Map Design). For Ginger Ale. 26,472; Oct. 9.
Canada Dry Ginger Ale, Inc., New York, N. Y. A Pale Ginger Ale of Exceptional Quality. For Ginger Ale. 26,473; Oct. 9.
Canada Dry Ginger Ale, Inc., New York, N. Y. Canada Dry (Leaf Design). For Ginger Ale. 26,474; Oct. 9.
Canada Dry Ginger Ale, Inc., New York, N. Y. Canada Dry (Imitation of Coat of Arms against a Background of Blue, Yellow, Pink, and Green Design.) For Ginger Ale. 26,475; Oct. 9.
Canada Dry Ginger Ale, Inc., New York, N. Y. Canada Dry (Imitation of Coat of Arms against a Blue Background Design.) For Ginger Ale. 26,476; Oct. 9.
Crawford Farms, Incorporated, Millbrook, N. Y. Tastum. For a Sandwich Made of Milk Crackers and Cheese. 26,477; Oct. 9.
Elliot, James F., Courtland, Calif. Delta. For Fresh Pears. 26,478; Oct. 9.
France Milling Company, Cobleskill, N. Y. Gold Medal Buckwheat and Wheat Flour. For Buckwheat and Wheat Flour. 26,479; Oct. 9.
Freeman, I. A., Kansas City, Mo. Lago Pure Crushed Fruit Laxative. For a Laxative Preparation. 26,480; Oct. 9.
Kazbek Company, Inc., Jersey City, N. J. Kazbek Complexion Clay. For Complexion Clays. 26,481; Oct. 9.
Knowlan Candy Co., Green Bay, Wis. Kayseeco. For Boxes Containing Assorted Chocolates. 26,482; Oct. 9.
Maltop Company. (See Rudhard, J. W.)
Noble and Noble, New York, N. Y. Treasure Island. For a Child's Game. 26,483; Oct. 9.
Noble and Noble, New York, N. Y. Game of Treasure Island. For the Cover of the Game Box. 26,484; Oct. 9.
Noble and Noble, New York, N. Y. Game of Cinderella. For the Cover of the Game Box. 26,485; Oct. 9.
Noble and Noble, New York, N. Y. Game of Alice In Wonderland. For the Cover of the Game Box. 26,486; Oct. 9.
Rudhard, J. W., doing business as Maltop Company, Buffalo, N. Y. Toddy. For a Food Drink Consisting of Powdered Malt, Milk, Cocoa, and Sugar. 26,487; Oct. 9.
Stoll & Edwards Co. Inc., New York, N. Y. Game of Black Sambo. For a Box Containing a Game. 26,488; Oct. 9.
Waximac Co., Roslindale, Mass. Waximac. For a Polish for Automobiles, Furniture, and Floors. 26,489; Oct. 9.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

A/S Biyantfabrikken Viking, Copenhagen, Denmark. Pencils. 183,131; Oct. 9.
Abrams, Joseph, San Francisco, Calif. Shampoo. 178,368; Oct. 9.
Advance Wood Turning Co., Chicago, Ill. Electric floor and table lamps. 164,150–1; Oct. 9.
Alden Speare's Sons Co., The, Chicago, Ill. Laundry nets or bags. 180,306; Oct. 9.
Altman, B., & Co., New York, N. Y. Children's dresses. 184,051; Oct. 9.
American Chemical Manufacturing Co., The, Denver, Colo. Uric-acid solvent and blood purifier. 164,996; Oct. 9.
Andrews, H. P., Paper Company, New York, N. Y. Paper suitable for making copies from stencil impressions. 171,402; Oct. 9.
Andrews, H. P., Paper Company, New York, N. Y. Paper suitable for making copies from stencil impressions. 171,406; Oct. 9.
Appel-Hall, Philadelphia, Pa. Sweaters, cardigan jackets, bathing suits. 184,054; Oct. 9.
Arlt, Anna H., Brooklyn, N. Y. Rouge. 179,512; Oct. 9.
Atlas Furniture Company, Jamestown, N. Y. Sofas, dressers, tables, etc. 175,050; Oct. 9.
Bach, James J., doing business as Io Thyro Chocolate Company, Milwaukee, Wis. Goiter preventive. 180,736; Oct. 9.
Baldwin Company, The, Cincinnati, Ohio. Pianos, player pianos, and piano players. 180,264; Oct. 9.
Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 176,593–4; Oct. 9.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 181,165; Oct. 9.
Beckley-Ralston Co., Chicago, Ill. Radioadapters for connecting radio receiving sets to amplifying chambers of phonographs. 163,608; Oct. 9.
Betterton-Rupert Coffee Co., Ashland, Ky. Roasted peanuts. 183,904; Oct. 9.
Birchfield, Charles A., New York, N. Y. Radio receiving apparatus and parts thereof. 181,009; Oct. 9.
Boue Soeurs, New York, N. Y. Perfumes. 181,171; Oct. 9.
Bourjois, A., & Co., Inc., assignor to M. Tecla & Co., New York, N. Y. Face powder. 112,292; Oct. 9.
Byford, Horace, Seattle, Wash. Waterproofing liquid. 177,425; Oct. 9.
California Bottling Association, San Francisco, Calif. Alkaline nonpurgative table water. 183,694; Oct. 9.
California Physicians Laboratories, Oakland, Calif. Bacterial sugar used in the treatment of various pulmonary diseases. 177,725; Oct. 9.
Cal-Met Mfg. Co., Oakland, Calif. Sheet-metal products. 161,034; Oct. 9.
Canadian Consolidated Corporation, Limited, St. Catharines, Ontario, Canada. Copper-clad leading-in wire for electrical purposes. 160,860; Oct. 9.
Canuet Frères, Paris, France. Beads and metal spangles. 184,018; Oct. 9.
Chicago Beverage Co., Chicago, Ill. Beverages sold as soft drinks and sirups used in the preparation of same. 184,712; Oct. 9.
Christie-Williams Co., Trenton, N. J. Electric-lighting brackets and ceiling fixtures. 180,362; Oct. 9.
Cincinnati Lamp & Bracket Company, The, (now by change of name The Cino Auto Products Company), Cincinnati, Ohio. Spotlights. 152,987; Oct. 9.
Cino Auto Products Company, The. (See Cincinnati Lamp & Bracket Company.)
Claresa Chemical Works. (See Smith, J. Elmer.)
Crippen & Reid, Baltimore, Md. Boys' suits. 183,198; Oct. 9.
Cullander Machinery Co., Belzoni, Miss. Cotton trampers. 182,334; Oct. 9.
Cumberland Chemical Co., Nashville, Tenn. Tonic for treating nervous debility and diseases of the nerves. 178,225; Oct. 9.
Cusack, Thomas, Company, Chicago, Ill. Electrically-illuminated signs. 177,217; Oct. 9.
Danziger-Jones, Inc., New York, N. Y. Radio receiving sets. 179,364; Oct. 9.
Delano, Potter & Company, Inc., Boston, Mass. Tea. 183,559; Oct. 9.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Pencils. 123,798; Oct. 9.
Dodge, A. M., Inc., Stuart and Lake Worth, Fla. Beverages sold as soft drinks. 183,443; Oct. 9.
Dormer Brothers Company, The, Cincinnati, Ohio. Hosiery. 184,068; Oct. 9.
Dryol Corporation, The, Atlanta, Ga. Powdered greasing compound to be applied to bread pans, etc. 184,395; Oct. 9, 1923.
Duophone Syndicate Limited, The, London, England. Talking machines. 181,015; Oct. 9.
Eastern Specialty Company, The, Philadelphia, Pa. Electrical instruments for central-station uses. 176,792; Oct. 9.
Electrad Corporation of America, New York, N. Y. Variable resistance units. 179,091; Oct. 9.
Ellison, John B., & Sons, Philadelphia, Pa. Wool, worsted, cotton, or mixtures piece goods. 182,536; Oct. 9.
Etablissements Poulenc Frères, Paris, France. Chemical product used to convey vaccines. 173,758; Oct. 9.
Fansteel Products Company, Inc., North Chicago, Ill. Battery chargers. 182,966; Oct. 9.
Ferné, Gabriel, Paris, France. Preparation for the treatment of syphilis. 179,464; Oct. 9.
Fortuna Water Company. (See Meyer, Edmund.)
Fox, J. G., Seattle, Wash. Ginger ale. 184,967; Oct. 9.
Friedman Bros. & Sons Neckwear Co. Inc., New York, N. Y. Ties, cravats. 183,144; Oct. 9.
Friedrich, John, Philadelphia, Pa. Ginger ale, sarsaparilla, and root beer. 184,817; Oct. 9.
Gabriel, C. O., & Sons, Columbus Junction, Iowa. Preparation for removing rust. 164,161; Oct. 9.
Grauert, Ralph W., doing business as R. W. Grauert Co., New York, N. Y. Bronze, aluminum, black, white, and color stamping leaf for use on hot press. 176,340; Oct. 9.
Hadfield, John W., Co., Philadelphia, Pa. Hosiery. 179,791; Oct. 9.
Hagler, Norman M., doing business as Hagler-Allen Mfg. Company, Duquoin, Ill. Insecticide powders. 181,394; Oct. 9.
Hamilton, L. R., Reedley, Calif. Fresh grapes. 184,611; Oct. 9.
Hoye, Daniel J., Detroit, Mich. Insulating separator for electrical conductors. 183,653; Oct. 9.
Hunt, Hatch & Co., Oakland, Calif. Fresh fruit and fresh asparagus. 165,137; Oct. 9.
Hurtado, Pablo, doing business as Hurtado Lemonol Co., Toledo, Ohio. Powdered preparation for making of soft drinks. 185,124; Oct. 9.
Icy-Hot Bottle Company, Cincinnati, Ohio. Bottles, jars, carafes, jugs, etc. 167,636; Oct. 9.
Icy-Hot Bottle Company, The, Cincinnati, Ohio. Plates, cups, jugs, and dishes. 167,637; Oct. 9.
Inabine Company, The, Corsicana, Tex. Liquid preparation for the treatment of kidney, bladder, and rheumatism troubles. 177,001; Oct. 9.
Io Thyro Chocolate Company. (See Bach, James J.)
Jablonower, Benjamin, New York, N. Y. Writing ink and ink powders, ink capsules, and tablets. 180,478; Oct. 9.
Jersey Silk Mills, New York, N. Y. Silk, etc., piece goods. 182,819; Oct. 9.
Kayline Company. (See Klein, Benjamin F.)
Kellum Company, The, Kansas City, Mo. Coffee. 184,136; Oct. 9.
Kennedy, Colin B., Company, The, St. Louis, Mo. Radio receiving sets and parts thereof. 180,705; Oct. 9.
Klein, Benjamin F., doing business as Kayline Company, Cleveland, Ohio. Electric-light fixtures. 181,530; Oct. 9.
Klein, Benjamin F., doing business as Kayline Company, Cleveland, Ohio. Electric-lighting fixtures. 181,531; Oct. 9.
L. & M. System Clothes, Inc., New York, N. Y. Overcoats and suits. 179,733; Oct. 9.
Lagerholm, Fred E., doing business as The Rodex Company, Charlotte, N. C. Rat exterminator. 163,586; Oct. 9.
Lam-Té Mfg. Co., Oklahoma, Okla. Shaving lotions. 166,142; Oct. 9.
Landis Machine Company, Waynesboro, Pa. Cutter heads, thread-cutting machines, and cutters therefor. 182,593; Oct. 9.
Larkin Co. Inc., Buffalo, N. Y. Medicated ointments or salves for external use. 179,942; Oct. 9.
Leonard, Charles R., doing business as C. R. Leonard Company, Seattle, Wash. Carbon paper. 179,007; Oct. 9.
Lewis, Edgar P., Boston, Mass. Hard candies. 180,707; Oct. 9.
Lola Manufacturing Co., Inc., doing business as Lola Gingham Mills, Stanley, N. C. Colored cotton piece goods, bleached and dyed-in-the-yarn cotton piece goods. 181,197; Oct. 9.
Louisiana Broom Manufacturers Association, New Orleans, La. Brooms. 173,517; Oct. 9.
McHarg, Sidney, Calexico, Calif. Cantaloupes and lettuce. 167,409; Oct. 9.
McLaurin-Jones Co., Brookfield, Mass. Chocolate-dipping paper. 183,715; Oct. 9.
McLaurin-Jones Co., Brookfield, Mass. Proofing paper. 183,716; Oct. 9.
Maline Mills Company, The, Winston-Salem, N. C. Knit and woven underwear. 182,252; Oct. 9.
Mavis Hosiery Company Inc., New York, N. Y. Stockings. 184,034; Oct. 9.
Mayer, L. S., Gesellschaft mit beschränkter Haftung, Frankfort-on-the-Main, Germany. Jewelry, etc. 171,278; Oct. 9.
Meyer, Edmund, doing business as Fortuna Water Company, San Francisco, Calif. Mineral water. 183,393; Oct. 9.
Migel, J. A., Inc., North Bergen, N. J., and New York, N. Y. Silk velvets in the piece. 181,840; Oct. 9.
Northwestern Distributing Co., Billings, Mont. Coffee. 178,456; Oct. 9.
Ohio Brass Company, The, Mansfield, Ohio. Ears, clamps, and hangers for suspending and supporting trolley wires, etc. 182,547; Oct. 9.
Osakeyhtio Birger Hallman, Ltd., Kuopio, Finland. Matches. 182,927; Oct. 9.
Pioneer Radio Corporation, Galesburg, Ill. Variometers and variocouplers. 182,606; Oct. 9.
Premier Electric Company, Chicago, Ill. Audiofrequency transformers. 183,162; Oct. 9.
Qualtop Beverages Inc., Rochester, N. Y. Beverages sold as soft drinks and sirups for making the same. 185,188; Oct. 9.
Rae-Lite Mfg. Co., The, Baltimore, Md. Electric parking lamps. 182,769; Oct. 9.
Reid, Murdoch & Co., Chicago, Ill. Tea. 183,854–5; Oct. 9.
Reid, Murdoch & Co., Chicago, Ill. Tea. 183,940; Oct. 9.
Rodex Company, The. (See Lagerholm, Fred E.)
Rodgers, John M., doing business as Rodgers' Bottling Co., Vallejo, Calif. Beverages sold as soft drinks and sirups for making the same. 185,189; Oct. 9.
Rogers Electric Company, Inc., Miles City, Mont. Electrical curling irons. 167,830; Oct. 9.
Rogers Peet Company, New York, N. Y. Men's and boys' overcoats and suits. 183,231; Oct. 9.
Rubber Process Corporation, Detroit, Mich. Chemical compound. 180,944; Oct. 9.
San Dimas Lemon Association, San Dimas, Calif. Fresh citrous fruits. 184,296–7; Oct. 9.
San Dimas Lemon Association, San Dimas, Calif. Fresh citrous fruits. 184,299; Oct. 9.
Schmidt & Ault Paper Co., York, Pa. Box board. 183,505; Oct. 9.
Scott & Fetzer Company, The, Cleveland, Ohio. Electric sweepers and cleaners. 176,504; Oct. 9.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Scott & Fetzer Company, The, Cleveland, Ohio. Nonelectric sweepers and cleaners. 180,559; Oct. 9.
Sleeper Radio Corporation, New York, N. Y. Radio receiving sets and parts thereof. 182,271; Oct. 9.
Smillo, Daniel, New York, N. Y. Pearls, necklaces, bracelets, and earrings. 176,578; Oct. 9.
Smith, J. Elmer, doing business as Claresa Chemical Works, Irwin, Pa. Rust removers, rouge, face powder, etc. 175,528; Oct. 9.
South Chicago Wholesale Grocery and Produce Company, Inc., South Chicago, Ill. Canned fruits, vegetables, and fish. 181,784; Oct. 9.
Spayde, Harry E., and Edward B. Raup, Sunbury, Pa. Medicine for disorders of the digestive tract. 176,923; Oct. 9.
Sterling Iron Works, Inc., Stockton, Calif. Electrically-operated deep-well and turbine pumps. 177,114; Oct. 9.
Susquehanna Silk Mills, New York, N. Y. All-silk piece goods. 181,154; Oct. 9.
Susquehanna Silk Mills, New York, N. Y. Silk and wool mixed piece goods. 181,155; Oct. 9.
Symmes, Whitman, San Francisco, Calif. Electrical outlet fixtures. 183,349–50; Oct. 9.
Tecla, M., & Co. (See Bourjois, A., & Co., assignor.)
Tozer, Beatrice C. A., London, England. Face creams, lotions, rouges, etc. 175,576; Oct. 9.
U. S. Distribution Co., Saginaw, Mich. Sheet rubber and textile rubber patches. 179,175; Oct. 9.
United Chemical and Organic Products Co., Chicago, Ill. Gelatin. 182,189; Oct. 9.
Van der Heyden a Hauzeur, L., Paris, France. Organs, pianos, harps, and parts of such instruments. 147,279; Oct. 9.
Van Sands, Walter, doing business as Vantone Company, New York, N. Y. Phonograph-needle holders for sound boxes. 178,418; Oct. 9.
Van Sands, Walter, doing business as Vantone Company, New York, N. Y. Phonograph-needle holders for sound boxes. 178,482; Oct. 9.
Vantone Company. (See Van Sands, Walter.)
Vereinigte Freiburger Uhrenfabriken A.-G. incl. vorm. Gustav Becker, Freiburg, Germany. Clocks, clock works, and parts thereof. 180,253; Oct. 9.
Wahl Company, The, Chicago, Ill. Leads and lead containers. 145,483; Oct. 9.
Wallace, James G., New York, N. Y. Tablets for use in aiding indigestion, influenza, etc. 181,095; Oct. 9.
Walnut Growers Spray Manufacturing Company, Los Angeles, Calif. Insecticide. 165,434; Oct. 9.
Williamson Heater Company, The, Cincinnati, Ohio. Heated cabinet laundry driers. 180,730; Oct. 9.
Williamson Heater Company, The, Cincinnati, Ohio. Heated cabinet laundry driers. 180,821; Oct. 9.
Wish, Fred A., Incorporated, New York, N. Y. Handkerchiefs and cotton goods in the piece. 182,636; Oct. 9.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 2.

Box shooks. G. X. Wendling. 174,277; Oct. 9; Serial No. 178,318; published July 3, 1923.
Containers and boxes, Metal and paper fancy. Fred A. Wish Incorporated. 174,230; Oct. 9; Serial No. 180,638; published July 3, 1923.
Containers, Condiment. C. H. Haesseler. 174,244; Oct. 9; Serial No. 172,834; published July 3, 1923.
Containers for food products, Transparent. Page & Shaw, Inc. 174,213; Oct. 9; Serial No. 179,424; published July 3, 1923.
Dishes and dispensing receptacles for paper dishes. Metal holders for paper. Vortex Mfg. Co. 174,234; Oct. 9; Serial No. 180,311; published July 3, 1923.
Stonework articles, Ornamental. A. L. T. Rustic Company. 174,258; Oct. 9; Serial No. 177,518; published July 10, 1923.

CLASS 3.

Hand bags, Ladies'. Blum & Mittenthal. 174,243; Oct. 9; Serial No. 179,847; published July 10, 1923.
Harness, collars, saddlery, and parts thereof. W. W. Gleckner & Sons Co. 174,282; Oct. 9; Serial No. 179,267; published July 10, 1923.
Horse collars. G. Bernd Company. 174,217; Oct. 9; Serial No. 181,053; published July 10, 1923.
Trunks. Osterweil Bros. Inc. 174,226; Oct. 9; Serial No. 180,771; published July 10, 1923.

CLASS 5.

Gines, Powdered vegetable. Arabol Manufacturing Co. 174,208–9; Oct. 9; Serial No. 179,641–2; published July 10, 1923.
Tire-repair compounds, adhesives, etc. Cahill & Malone. 174,205; Oct. 9; Serial No. 179,708; published July 10, 1923.

CLASS 6.

Batteries, Recharging fluid for storage. Beck & Truelove. 174,307; Oct. 9.
Massage preparations or tonics for the head and scalp. Van Ess Laboratories, Inc. 174,214; Oct. 9; Serial No. 166,487; published May 29, 1923.
Shampoo. M. M. Milgram. 174,314; Oct. 9.

CLASS 7.

Rope and cable, Hoisting. Atlantic Elevator Company. 174,218; Oct. 9; Serial No. 181,051; published July 10, 1923.
Wire rope and clothesline. G. F. Wright Steel & Wire Company. 174,245; Oct. 9; Serial No. 169,510; published July 10, 1923.

CLASS 10.

Fertilizer. George C. Jones Incorporated. 174,228; Oct. 9; Serial No. 180,704; published July 10, 1923.

CLASS 15.

Grease compound for lubricating purposes. A. B. Hutton. 174,240; Oct. 9; Serial No. 180,009; published July 10, 1923.
Lubricating compounds and greases. Otis Chemical Company. 174,215; Oct. 9; Serial No. 181,087; published July 10, 1923.
Oil, Cutting. Smith Oil & Refining Company. 174,231; Oct. 9; Serial No. 180,629; published July 10, 1923.

CLASS 16.

Artists' materials. Artists Brush and Color Corporation. 174,266; Oct. 9; Serial No. 175,454; published July 10, 1923.
Lead, White. Chadwick-Boston Lead Company. 174,267; Oct. 9; Serial No. 175,344; published July 10, 1923.
Oil paint. James B. Sipe & Company. 174,285; Oct. 9; Serial No. 179,331; published July 3, 1923.
Paint for metal surfaces, Primer. James B. Sipe & Company. 174,283; Oct. 9; Serial No. 179,325; published July 3, 1923.
Paint, Paste. James B. Sipe & Company. 174,284; Oct. 9; Serial No. 179,326; published July 3, 1923.
Paint, Paste and ready-mixed. Colonial Works. 174,238; Oct. 9; Serial No. 180,097; published July 3, 1923.
Paint remover. E. F. Miller. 174,247; Oct. 9; Serial No. 166,747; published July 10, 1923.
Paints. Indiana Indestructible Paint Co. 174,255; Oct. 9; Serial No. 146,555; published Aug. 8, 1923.
Paints, varnishes, fillers, and shellacs, Ready-mixed. S. Joseph & Son Co. 174,235; Oct. 9; Serial No. 180,285; published July 10, 1923.
Polish, Automobile and piano. K. Smuckler. 174,256; Oct. 9; Serial No. 173,939; published July 3, 1923.
Polish, Automobile, piano, and furniture. A. N. Sanderson. 174,239; Oct. 9; Serial No. 180,082; published July 3, 1923.
Varnish. Frank Bownes Company. 174,216; Oct. 9; Serial No. 181,054; published July 10, 1923.
Varnish. Benjamin Moore & Co. 174,227; Oct. 9; Serial No. 180,769; published July 10, 1923.
Varnishes, varnish stain, enamels, etc. Sewall Paint & Glass Company. 174,224; Oct. 9; Serial No. 180,814; published July 10, 1923.
Wood paste filler, oil colors, enamel, etc. Edward E. Allen Mfg. Co. 174,279; Oct. 9; Serial No. 179,078; published July 10, 1923.

CLASS 17.

Cigars. John C. Herman & Company. 174,176; Oct. 9; Serial No. 179,599; published July 17, 1923.

CLASS 21.

Cables, Insulated electric. Rome Wire Company. 174,302; Oct. 9.
Cleaners, Electric suction. Wise-McClung Manufacturing Company. 174,299; Oct. 9.
Furnaces, Electric. Electric Furnace Company. 174,298; Oct. 9.
Grills, Electric toaster. Chicago Flexible Shaft Company. 174,305; Oct. 9.

CLASS 22.

Bats, Baseball. Hillerich & Bradsby Co. 174,159; Oct. 9; Serial No. 180,430; published July 17, 1923.
Game, Alderman. Fairchild Company. 174,187; Oct. 9; Serial No. 181,050; published July 17, 1923.
Games and parts thereof. Pung-Chow Company. 174,168–9; Oct. 9; Serial Nos. 179,955–6; published July 17, 1923.
Vehicles, Children's. Colson Company. 174,303; Oct. 9.

CLASS 23.

Can openers. Star Can Opener Company. 174,161; Oct. 9; Serial No. 180,307; published July 17, 1923.
Carburetors. G. C. Brown. 174,173; Oct. 9; Serial No. 179,774; published July 17, 1923.
Corn shellers. Joliet Manufacturing Company. 174,162; Oct. 9; Serial No. 180,223; published July 17, 1923.
Cotton and other fibrous materials, Machines for breaking, separating, etc. Garner Gin Company. 174,304; Oct. 9.
Pliers and wrenches. Allan-Piffenbaugh Wrench & Tool Co. 174,308; Oct. 9.
Roasters and parts and supplies for same. Jabez Burns & Sons. 174,160; Oct. 9; Serial No. 180,325; published July 17, 1923.
Water pumping and supply systems and apparatus therefor, Pneumatic. Milwaukee Air Power Pump Company. 174,295–6; Oct. 9.

CLASS 25.

Automobile steering-wheel locks. Safelock Co. 174,202; Oct. 9.
Locks, Auto. Williams & Robeschaud. 174,181; Oct. 9; Serial No. 180,570; published July 10, 1923.
Safes. Steelcraft Corporation of America. 174,182; Oct. 9; Serial No. 179,890; published July 10, 1923.

CLASS 26.

Barometers. Taylor Instrument Companies. 174,180; Oct. 9; Serial No. 179,495; published July 10, 1923.
Gauges, indicators, etc., Fluid-pressure. A. Schrader's Son, Incorporated. 174,164; Oct. 9; Serial No. 180,084; published July 10, 1923.
Gauges, Oil. D. A. Kafka. 174,204; Oct. 9; Serial No. 181,029; published July 10, 1923.
Lenses, eyeglasses and spectacles. N. Smith. 174,198; Oct. 9; Serial No. 180,815; published July 10, 1923.
Ophthalmic mountings and parts thereof. Optical Specialty Manufacturing Company. 174,178; Oct. 9; Serial No. 179,548; published July 10, 1923.
Photographic films. Ansco Company. 174,183–4; Oct. 9; Serial Nos. 178,806–7; published July 10, 1923.
Photographic films. Ansco Company. 174,186; Oct. 9; Serial No. 178,805; published July 10, 1923.
Photographic shutters. Eastman Kodak Company. 174,199; Oct. 9; Serial No. 180,846; published July 10, 1923.
Temperature indicators, Thermoelectric. Safe-T-Stat Co. 174,163; Oct. 9; Serial No. 180,143; published July 10, 1923.

CLASS 27.

Watches, watchcases, and watch movements. Gruen Watch Company. 174,290–1; Oct. 9.

CLASS 29.

Brushes, Shaving. Rubber & Celluloid Products Company. 174,167; Oct. 9; Serial No. 179,962; published July 17, 1923.

CLASS 31.

Ice-cream freezers. Steinfeld Inc. 174,278; Oct. 9; Serial No. 178,574; published July 17, 1923.
Refrigerating apparatus. D. Eddy and Sons Co. 174,241; Oct. 9; Serial No. 179,994; published July 3, 1923.
Refrigeration cabinets. I. C. Refrigeration Co. 174,233; Oct. 9; Serial No. 180,477; published July 17, 1923.
Refrigerators and parts, refrigerating systems. National Electric Products Corporation. 174,263; Oct. 9; Serial No. 177,140; published July 3, 1923.

CLASS 36.

Table and phonograph, phonographs, etc., Combination library. Westphono Incorporated. 174,313; Oct. 9.

CLASS 37.

Announcements. Richter Card & Paper Co. 174,281; Oct. 9; Serial No. 179,224; published July 3, 1923.
Books and filing cards for bookkeeping purposes, Receipt. W. A. Ringler. 174,251; Oct. 9; Serial No. 160,434; published July 10, 1923.
Duplicating apparatus and accessories thereto, etc. D. Gestetner Limited. 174,275; Oct. 9; Serial No. 178,175; published July 10, 1923.
Paper, bristol board, and cardboard. J. W. Butler Paper Co. 174,222; Oct. 9; Serial No. 180,838; published July 10, 1923.
Paper clips. Nonsting Pin Ticket Company. 174,225; Oct. 9; Serial No. 180,805; published July 10, 1923.
Paper, Matrix, stereotype, and Kraft wrapping. Albemarle Paper Mfg. Co. 174,250; Oct. 9; Serial No. 162,280; published Aug. 8, 1922.
Paper, paper napkins, towels, and tablecloths, Toilet. Fort Howard Paper Company. 174,220–1; Oct. 9; Serial Nos. 180,971–2; published July 17, 1923.
Paper, Toilet. Peerless Mfg. Co. 174,207; Oct. 9; Serial No. 179,679; published July 10, 1923.
Paper, Writing. Fox River Paper Company. 174,219; Oct. 9; Serial No. 180,975; published July 17, 1923.
Paper, Writing. Fox River Paper Company. 174,232; Oct. 9; Serial No. 180,533; published July 10, 1923.
Paper, Writing and bond. Becker Paper Corporation. 174,276; Oct. 9; Serial No. 178,208; published July 17, 1923.
Papers and mailing envelopes, Writing and printing. Whiting Paper Company. 174,237; Oct. 9; Serial No. 180,161; published July 3, 1923.
Papers, bristol board, cardboard. J. W. Butler Paper Co. 174,242; Oct. 9; Serial No. 179,926; published July 17, 1923.
Pens, Fountain. Miller's Book Store, Inc. 174,287; Oct. 9; Serial No. 179,377; published July 3, 1923.
Stationery. Fred A. Wish, Incorporated. 174,220; Oct. 9; Serial No. 180,641; published July 10, 1923.

CLASS 39.

Blouses, ladies', children's, and misses' dresses, knickers, boys' suits, bloomers, overshirts, etc., Middy. H. W. Goldman. 174,260; Oct. 9; Serial No. 177,484; published July 3, 1923.
Corsets, corset waists, brassières, etc. American Lady Corset Company. 174,170; Oct. 9; Serial No. 179,916; published July 17, 1923.
Corsets, etc. L. F. Tighe. 174,306; Oct. 9.
Dresses, Apron. N. Simon & Co. 174,174; Oct. 9; Serial No. 179,748; published July 17, 1923.
Dresses, Ladies'. Lovinger-Schwartz Co. 174,288; Oct. 9; Serial No. 179,414; published July 10, 1923.
Dresses, Ladies' and misses'. E. M. Thomas. 174,206; Oct. 9; Serial No. 179,688; published July 10, 1923.
Dresses, Women's, and misses'. Mallas Cravis Co. 174,265; Oct. 9; Serial No. 176,029; published July 10, 1923.
Gloves, hosiery, and underwear. A. W. Nack. 174,249; Oct. 9; Serial No. 164,660; published Feb. 13, 1923.
Hosiery. Chester Knitting Mills. 174,268; Oct. 9; Serial No. 174,654; published July 10, 1923.
Hosiery. Chipman Knitting Mills. 174,262; Oct. 9; Serial No. 177,359; published July 10, 1923.
Hosiery. Miller Brothers Company. 174,280; Oct. 9; Serial No. 179,158; published July 10, 1923.
Hosiery. Richmond Hosiery Mills. 174,253; Oct. 9; Serial No. 154,760; published May 22, 1923.
Hosiery. Robischon Corporation. 174,210; Oct. 9; Serial No. 179,557; published July 10, 1923.
Hosiery. Stamper & Kaiser. 174,273; Oct. 9; Serial No. 177,630; published July 10, 1923.
Hosiery. United States Hosiery Co. 174,310; Oct. 9.
Hosiery. United Hosiery Mills Corporation. 174,312; Oct. 9.
Hosiery, Boys' and girls'. A. A. Wuest. 174,261; Oct. 9; Serial No. 177,419; published July 10, 1923.
Kimonos, breakfast gowns, etc. Barsa Corporation. 174,274; Oct. 9; Serial No. 178,021; published July 10, 1923.
Overalls, Children's. Arthur A. Katten Co. 174,300; Oct. 9.
Overalls, coats, pants, jumpers, etc. Ironall Factories Co. 174,248; Oct. 9; Serial No. 164,707; published July 3, 1923.
Overcoats. Meigs & Co. 174,286; Oct. 9; Serial No. 179,376; published July 10, 1923.
Overcoats, raincoats, house coats, etc. Heidelberg, Wolff & Co. 174,175; Oct. 9; Serial No. 179,722; published July 17, 1923.
Pants, Norfolk jackets, coats, and vests. Sweet-Orr & Co. 174,271; Oct. 9; Serial No. 174,221; published July 3, 1923.
Pyjamas. M. Wilber Dyer Company. 174,212; Oct. 9; Serial No. 179,463; published July 10, 1923.
Robes. Lewis-Wise Co. 174,172; Oct. 9; Serial No. 179,873; published July 17, 1923.
Shirts and overalls, Work. Washington Manufacturing Co. 174,211; Oct. 9; Serial No. 179,502; published July 10, 1923.
Shirts, Men's, youths', and boys'. Levi Strauss & Co. 174,254; Oct. 9; Serial No. 153,477; published July 3, 1923.
Shirts, pyjamas, nightgowns. Brownstein-Louis Co. 174,293; Oct. 9.
Suits and overcoats, Men's. L. Shapiro. 174,257; Oct. 9; Serial No. 177,626; published July 10, 1923.
Suits and overcoats, Men's, ready-made. L. Shapiro. 174,272; Oct. 9; Serial No. 177,627; published July 10, 1923.
Suits, coats, gowns, etc., Ladies'. Hudson Cloak & Suit Store. 174,309; Oct. 9.
Suits, topcoats, and ulsters, Men's. H. H. Cooper & Co. 174,270; Oct. 9; Serial No. 174,560; published July 10, 1923.
Sweaters and dress skirts, Knitted. Knitwear Manufacturing Co. 174,252; Oct. 9; Serial No. 157,431; published July 3, 1923.
Underwear, hosiery, and sweaters. J. B. Hirshfeld. 174,264; Oct. 9; Serial No. 176,184; published July 17, 1923.
Union and combination suits, undershirts, underdrawers. Superior Athletic Underwear Company. 174,269; Oct. 9; Serial No. 174,642; published July 10, 1923.

CLASS 42.

Cotton, duck, and canvas piece goods. J. Einstein, Inc. 174,156; Oct. 9; Serial No. 180,793; published July 17, 1923.
Cotton fabrics, Textile. Amory, Browne & Co. 174,192; Oct. 9; Serial No. 181,103; published July 17, 1923.
Cotton piece goods. Cohn Hall Marx Co., 174,202; Oct. 9; Serial No. 180,963; published July 17, 1923.

Cotton piece goods. Millidale Textiles Corporation. 174,155; Oct. 9; Serial No. 181,032; published July 17, 1923.
Cotton piece goods. Wm. Simpson, Sons & Co. 174,289; Oct. 9.
Cotton piece goods. Taylor, Clapp & Beall. 174,194; Oct. 9; Serial No. 181,048; published July 17, 1923.
Cotton piece goods, Printed, bleached, grny, etc. Neuss, Hesslein & Co. 174,201; Oct. 9; Serial No. 180,882; published July 17, 1923.
Cotton, silk, linen, etc., goods in the piece. Jacob Miller's Sons Co. 174,195; Oct. 9; Serial No. 181,036; published July 17, 1923.
Cotton, silk, linen, etc., goods in the piece. Jacob Miller's Sons Co. 174,196–7; Oct. 9; Serial Nos. 181,033–4; published July 17, 1923.
Knitted silk fabrics. Banner Silk Knitting Mills, Inc. 174,157; Oct. 9; Serial No. 180,781; published July 17, 1923.
Knitted silk fabrics. Banner Silk Knitting Mills, Inc. 174,185; Oct. 9; Serial No. 180,784; published July 17, 1923.
Silk and wool fabrics and mixtures thereof in the piece. J. A. Migel, Inc. 174,259; Oct. 9; Serial No. 177,505; published May 29, 1923.
Silk fabrics. Corticelli Silk Coupnay. 174,158; Oct. 9; Serial No. 180,590; published July 17, 1923.
Silk fabrics. Golding Fabrics Corporation. 174,190; Oct. 9; Serial No. 181,183; published July 17, 1923.
Silk fabrics. Golding Fabrics Corporation. 174,200; Oct. 9; Serial No. 180,859; published July 17, 1923.
Silk fabrics in the piece. Cheney Brothers. 174,193; Oct. 9; Serial No. 181,061; published July 17, 1923.
Silk piece goods. Duplan Silk Corporation. 174,188–9; Oct. 9; Serial Nos. 181,255–6; published July 17, 1923.
Silk piece goods. Empire Silk Company. 174,191; Oct. 9; Serial No. 181,178; published July 17, 1923.
Woolen cloths in the piece. S. Stein & Co. 174,294; Oct. 9.
Woolen piece goods. Farnsworth Mills Inc. 174,203; Oct. 9; Serial No. 180,969; published July 17, 1923.
Worsted yarn fabric known as reps. Botany Worsted Mills. 174,165–6; Oct. 9; Serial Nos. 179,987–8; published July 17, 1923.

CLASS 44.

Furniture, Aseptic. Reid Bros., Inc. 174,246; Oct. 9; Serial No. 168,790; published July 3, 1923.
Ice bags and syringe fixtures. A. Schrader's Son, Incorporated. 174,236; Oct. 9; Serial No. 180,243; published July 10, 1923.

CLASS 45.

Beverage sold as a soft drink. W. McKee. 174,171; Oct. 9; Serial No. 179,876; published July 17, 1923.
Beverage sold as a soft drink and a compound for making same. Beverage Extract Company. 174,179; Oct. 9; Serial No. 179,513; published July 17, 1923.
Beverage sold as a soft drink and sirups for making the same. C. G. Dillon. 174,177; Oct. 9; Serial No. 179,590; published July 17, 1923.
Beverages and sirups. Schuster Company. 174,301; Oct. 9.
Ginger ale. Bartow Beverages, Inc. 174,223; Oct. 9; Serial No. 180,832; published July 10, 1923.

CLASS 46.

Cake. Thommen's Inc. 174,297; Oct. 9.
Grapes, Fresh. California Table Fruit Co. 174,311; Oct. 9.

ALPHABETICAL LIST OF LABELS.

A Pale Ginger Ale of Exceptional Quality. For Ginger Ale. Canada Dry Ginger Ale, Inc. 26,473; Oct. 9.
Bardell Fototone Miniatures. For Miniature Post Cards. J. C. Bardell. 26,468; Oct. 9.
Canada Dry (Imitation of Coat of Arms Against a Background of Blue, Yellow, Pink, and Green Design). For Ginger Ale. Canada Dry Ginger Ale, Inc. 26,475; Oct. 9.
Canada Dry (Imitation of Coat of Arms Against a Blue Background Design.) For Ginger Ale. Canada Dry Ginger Ale, Inc. 26,476; Oct. 9.
Canada Dry (Leaf Design). For Ginger Ale. Canada Dry Ginger Ale, Inc. 26,474; Oct. 9.
Canada Dry (Map Design). For Ginger Ale. Canada Dry Ginger Ale, Inc. 26,472; Oct. 9.
Capt. Jack's Sand Ship. For Toys—Namely, Miniature Ships. P. J. Barnard. 26,469; Oct. 9.
Cinco. For an Herb Remedy. C. G. Boyd. 26,471; Oct. 9.
Delta. For Fresh Pears. J. F. Elliot. 26,478; Oct. 9.
Game Of Alice In Wonderland. For the Cover of the Game Box. Noble and Noble. 26,486; Oct. 9.
Game Of Black Sambo. For a Box Containing a Game. Stoll & Edwards Co. 26,488; Oct. 9.
Game of Cinderella. For the Cover of the Game Box. Noble and Noble. 26,485; Oct. 9.
Game of Treasure Island. For the Cover of the Game Box. Noble and Noble. 26,484; Oct. 9.
Gold Medal Buckwheat and Wheat Flour. For Buckwheat and Wheat Flour. France Milling Company. 26,479; Oct. 9.
Kayseeco. For Boxes Containing Assorted Chocolates. Knowlan Candy Co. 26,482; Oct. 9.
Kazbek Complexion Clay. For Complexion Clays. Kazbek Company. 26,481; Oct. 9.
Lago Pure Crushed Fruit Laxative. For a Laxative Preparation. I. A. Freeman. 26,480; Oct. 9.
Sinco. For an Herb Remedy. C. G. Boyd. 26,470; Oct. 9.
Tastum. For a Sandwich Made of Milk Crackers and Cheese. Crawford Farms, Incorporated. 26,477; Oct. 9.
Toddy. For a Food Drink Consisting of Powdered Malt, Milk, Cocoa, and Sugar. J. W. Rudhard. 26,487; Oct. 9.
Treasure Island. For a Child's Game. Noble and Noble. 26,483; Oct. 9.
Waximac. For a Polish for Automobiles, Furniture, and Floors. Waximac Co. 26,489; Oct. 9.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 6.

Bacterial sugar used in the treatment of various pulmonary diseases. California Physicians Laboratories. 177,725; Oct. 9.
Chemical compound. Rubber Process Corporation. 180,944; Oct. 9.
Chemical product used to convey vaccines. Etablissements Poulenc Frères. 173,758; Oct. 9.
Creams, lotions, rouges, etc., Face. B. C. A. Tozer. 175,576; Oct. 9.
Goiter preventive. J. J. Bach. 180,736; Oct. 9.
Insecticide. Walnut Growers Spray Manufacturing Company. 165,434; Oct. 9.
Insecticide powders. N. M. Hagler. 181,894; Oct. 9.
Lotions, Shaving. Lam-Té Mfg. Co. 166,142; Oct. 9.
Medicine for disorders of the digestive tract. Harry E. Spayde and Edward B. Raup. 176,923; Oct. 9.
Ointments or salves, Medicated. Larkin Co. 179,942; Oct. 9.
Perfumes. Boue Soeurs. 181,171; Oct. 9.
Powder, Face. A. Bourjois & Co. 112,292; Oct. 9.
Preparation for removing rust. C. O. Gabriel & Sons. 164,161; Oct. 9.
Preparation for the treatment of kidney, bladder, and rheumatism troubles. Inabine Company. 177,001; Oct. 9.
Preparation for the treatment of syphilis. G. Ferné. 179,464; Oct. 9.
Rat exterminator. F. E. Lagerholm. 163,586; Oct. 9.
Rouge. A. H. Arlt. 179,512; Oct. 9.
Rust removers, rouge, etc. J. E. Smith. 175,528; Oct. 9.
Shampoo. J. Abrams. 178,368; Oct. 9.
Tablets for aiding indigestion, influenza, etc. J. G. Wallace. 181,095; Oct. 9.
Tonic for treating nervous debility and diseases of the nerves. Cumberland Chemical Co. 178,225; Oct. 9.
Uric-acid solvent and blood purifier. American Chemical Manufacturing Co. 164,996; Oct. 9.
Waterproofing liquid. H. Byford. 177,425; Oct. 9.

CLASS 9.

Matches. Osakeyhtio Birger Halman, Ltd. 182,927; Oct. 9.

CLASS 11.

Ink and ink powders, ink capsules and tablets. B. Jablonower. 180,478; Oct. 9.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Paper, Carbon. C. R. Leonard. 179,007; Oct. 9.
Stamping leaf for use on hot press. R. W. Grauert. 176,340; Oct. 9.

CLASS 21.

Battery charges. Fansteel Products Company. 182,966; Oct. 9.
Curling irons, Electrical. Rogers Electric Company. 167,830; Oct. 9.
Electric-light fixtures. B. F. Klein. 181,530; Oct. 9.
Electric-lighting brackets and ceiling fixtures. Christie-Williams Co. 180,362; Oct. 9.
Electric-lighting fixtures. B. F. Klein. 181,531; Oct. 9.
Electrical conductors, Insulating separator for. D. J Hoye. 183,653; Oct. 9.
Electrical instruments for central-station uses. Eastern Specialty Company. 176,792; Oct. 9.
Electrical outlet fixtures. W. Symmes. 183,349–50; Oct. 9.
Lamps, Electric. Advance Wood Turning Co. 164,150–1; Oct. 9.
Lamps, Electric parking. Rae-Lite Mfg. Co. 182,769; Oct. 9.
Pumps, Electrically-operated deep-well and turbine. Sterling Iron Works. 177,114; Oct. 9.
Radio receiving apparatus and parts thereof. C. A. Birchfield. 181,009; Oct. 9.
Radio receiving sets. Danziger-Jones, Inc. 179,364; Oct. 9.
Radio receiving sets and parts thereof. Colin B. Kennedy Company. 180,705; Oct. 9.
Radio receiving sets and parts thereof. Sleeper Radio Corporation. 182,271; Oct. 9.
Radioadapters. Beckley-Ralston Co. 163,608; Oct. 9.
Resistance units, Variable. Electrad Corporation of America. 179,091; Oct. 9.
Sheet-metal products. Cal-Met Mfg. Co. 161,034; Oct. 9.
Signs, Electrically-illuminated. Thomas Cusack Company. 177,217; Oct. 9.
Spotlights. Cincinnati Lamp & Bracket Company. 152,987; Oct. 9.
Sweepers and cleaners, Electric. Scott & Fetzer Company. 176,504; Oct. 9.
Transformers, Audiofrequency. Premier Electric Company. 183,162; Oct. 9.
Trolley wires, etc., Ears, clamps, and hangers for suspending and supporting. Ohio Brass Company. 182,547; Oct. 9.
Variometers and variocouplers. Pioneer Radio Corporation. 182,606; Oct. 9.
Wire for electrical purposes, Copper-clad leading-in. Canadian Consolidated Corporation. 160,860; Oct. 9.

CLASS 23.

Cotton trampers. Cullander Machinery Co. 182,334; Oct. 9.
Cutter heads, thread-cutting machines, and cutters therefor. Landis Machine Company. 182,593; Oct. 9.
Sweepers and cleaners, Nonelectric. Scott & Fetzer Company. 180,559; Oct. 9.

CLASS 24.

Laundry driers, Heated cabinet. Williamson Heater Company. 180,730; Oct. 19.
Laundry driers, Heated cabinet. Williamson Heater Company. 180,821; Oct. 9.
Laundry nets or bags. Alden Speare's Sons Co. 180,306; Oct. 9.

CLASS 27.

Clocks, clock works, and parts thereof. Vereinigte Freiburger Uhrenfabriken A.-G. incl. vorm. Gustav Becker. 180,253; Oct. 9.

CLASS 28.

Bottles, jars, jugs, etc. Icy-Hot Bottle Company. 167,636; Oct. 9.
Jewelry, etc. L. S. Mayer, Gesellschaft mit beschrankter Haftung. 171,278; Oct. 9.
Pearls, necklaces, bracelets, and earrings. D. Smilo. 176,578; Oct. 9.

CLASS 29.

Brooms. Louisiana Broom Manufacturers Association. 173,517; Oct. 9.

CLASS 30.

Plates, cups, jugs, and dishes. Icy-Hot Bottle Company. 167,637; Oct. 9.

CLASS 32.

Sofas, divans, wardrobes, etc. Atlas Furniture Company. 175,050; Oct. 9.

CLASS 35.

Rubber and textile rubber patches, Sheet. U. S. Distribution Co. 179,175; Oct. 9.

CLASS 36.

Organs, pianos, harps, and parts of such instruments. L. van der Heyden a Hauzeur. 147,279; Oct. 9.
Phonograph-needle holders for sound boxes. W. Van Sands. 178,418; Oct. 9.
Phonograph-needle holders for sound boxes. W. Van Sands. 178,482; Oct. 9.
Pianos, player pianos, and piano players. Baldwin Company. 180,264; Oct. 9.
Talking machines. Duophone Syndicate Limited. 181,015; Oct. 9.

CLASS 37.

Box board. Schmidt & Ault Paper Co. 183,505; Oct. 9.
Leads and lead containers. Wahl Company. 145,483; Oct. 9.
Paper, Chocolate-dipping. McLaurin-Jones Co. 183,715; Oct. 9.
Paper, Proofing. McLaurin-Jones Co. 183,716; Oct. 9.
Paper suitable for making copies from stencil impressions. H. P. Andrews Paper Company. 171,402; Oct. 9.
Paper suitable for making copies from stencil impressions. H. P. Andrews Paper Company. 171,406; Oct. 9.
Pencils. A/S Blyantfabrikken Viking. 183,131; Oct. 9.
Pencils. Joseph Dixon Crucible Company. 123,798; Oct. 9.

CLASS 39.

Dresses, Children's. B. Altman & Co. 184,051; Oct. 9.
Hosiery. Bear Brand Hosiery Co. 176,593–4; Oct. 9.
Hosiery. Bear Brand Hosiery Co. 181,165; Oct. 9.
Hosiery. Dormer Brothers Company. 184,068; Oct. 9.
Hosiery. John W. Hadfield Co. 179,791; Oct. 9.
Knit and woven underwear. Maline Mills Company. 182,252; Oct. 9.
Overcoats and suits. L. & M. System Clothes, Inc. 179,733; Oct. 9.
Overcoats and suits, Men's and boys'. Rogers Peet Company. 183,231; Oct. 9.
Stockings. Mavis Hosiery Company. 184,034; Oct. 9.
Suits, Boys'. Crippen & Reid. 183,198; Oct. 9.
Sweaters, cardigan jackets, bathing suits. Appel-Hall. 184,054; Oct. 9.
Ties, cravats. Friedman Bros. & Sons Neckwear Co. 183,144; Oct. 9.

CLASS 40.

Beads and metal spangles. Canuet Frères. 184,018; Oct. 9.

CLASS 42.

Cotton piece goods, bleached and dyed-in-the-yarn cotton piece goods, Colored. Lola Manufacturing Co. 181,197; Oct. 9.
Handkerchiefs and cotton goods in the piece. Fred A. Wish, Incorporated. 182,636; Oct. 9.
Silk and wool mixed piece goods. Susquehanna Silk Mills. 181,155; Oct. 9.
Silk, artificial-silk, etc., piece goods. Jersey Silk Mills. 182,819; Oct. 9.
Silk piece goods, All-. Susquehanna Silk Mills. 181,154; Oct. 9.
Velvets in the piece, Silk. J. A. Migel, Inc. 181,840; Oct. 9.
Wool, etc., goods in the piece. J. B. Ellison & Sons. 182,536; Oct. 9.

CLASS 45.

Beverages sold as soft drinks. A. M. Dodge, Inc. 183,443; Oct. 9.
Beverages sold as soft drinks and sirups for making the same. Qualtop Beverages Inc. 185,188; Oct. 9.
Beverages sold as soft drinks and sirups for making the same. J. M. Rodgers. 185,189; Oct. 9.
Beverages sold as soft drinks and sirups used in the preparation of same. Chicago Beverage Co. 184,712; Oct. 9.
Drinks, Powdered preparation for making soft. P. Hurtado. 185,124; Oct. 9.
Ginger ale. J. G. Fox. 184,967; Oct. 9.
Ginger ale, sarsaparilla, and root beer. J. Friedrich. 184,817; Oct. 9.
Water, Alkaline nonpurgative table. California Bottling Association. 183,694; Oct. 9.
Water, Mineral. E. Meyer. 183,393; Oct. 9.

CLASS 46.

Candies, Hard. E. P. Lewis. 180,707; Oct. 9.
Canned goods. South Chicago Wholesale Grocery and Produce Company. 181,784; Oct. 9.
Cantaloupes and lettuce. S. McIlarg. 167,409; Oct. 9.
Coffee. Kellum Company. 184,136; Oct. 9.
Coffee. Northwestern Distributing Co. 178,456; Oct. 9.
Fruits and asparagus, Fresh. Hunt, Hatch & Co. 165,137; Oct. 9.
Fruits, Fresh citrous. San Dimas Lemon Association. 184,296–7; Oct. 9.
Fruits, Fresh citrous. San Dimas Lemon Association. 184,299; Oct. 9.
Gelatin. United Chemical and Organic Products Co. 182,189; Oct. 9.
Grapes, Fresh. L. R. Hamilton. 184,611; Oct. 9.
Greasing compound to be applied to bread pans, etc. Dryol Corporation. 184,395; Oct. 9.
Peanuts, Roasted. Betterton-Rupert Coffee Co. 183,904; Oct. 9.
Tea. Delano, Potter & Company. 183,559; Oct. 9.
Tea. Reid, Murdoch & Co. 183,854–5; Oct. 9.
Tea. Reid, Murdoch & Co. 183,940; Oct. 9.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 9TH DAY OF OCTOBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A. & J. Manufacturing Co., The. (See Kail, Charles E., assignor.)
Abbott, Charles M., Watertown, Mass. Dispensing device. 1,470,131; Oct. 9.
Abel, Joseph C., Brooklyn, N. Y., assignor to American Car and Foundry Company, St. Louis, Mo. Tank-car valve-operating mechanism. 1,470,340; Oct. 9.
Abraham, Thomas M., Manquin, Va. Accelerator. 1,470,419; Oct. 9.
Achilli, Ruth, Columbus, Ohio. Apron. 1,470,341; Oct. 9.
Adams, Arthur A., Brookline, and F. A. Emery, Wellesley Hills, Mass. Counter. 1,469,932; Oct. 9.
Adams, Frederick. (See Anderson, C. C., and Adams.)
Adams, William W., Washington, D. C. Indicator for punching machines. 1,470,519; Oct. 9.
Addograph Company. (See Crawley, Mansfield C., assignor.)
Adler, Charles, jr., Baltimore, Md. Railway-crossing signal. 1,470,043; Oct. 9.
Aeolian Company, The. (See Head, Robert, assignor.)
Affel, Herman A., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Carrier-transmission-routing arrangement. 1,469,869; Oct. 9.
Ahlvin, John E., Joliet, Ill. Jamb fastening. 1,470,251; Oct. 9.
Ahrens, Herman C., Cincinnati, Ohio. Sausage-stuffing apparatus. 1,470,371; Oct. 9.
Aitken, Andrew W., assignor to The Buffalo-Springfield Roller Company, Springfield, Ohio. Road roller. 1,470,315; Oct. 9.
Alcock, Frederick A., Armadale, near Melbourne, Victoria, Australia. Combined talking-machine cabinet and writing desk. 1,470,133; Oct. 9.
Allen, George W. H. (See Collins, W. D., and Allen.)
Allen Filter Company, The. (See Mull, Edgar P., assignor.)
Allen, Joseph W., Clairton, Pa. Pressure regulator. 1,469,871; Oct. 9.
Allen, Ogiesby, jr., Chicago, Ill. Washing machine. 1,469,980; Oct. 9.
Allen, Robert C., Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine blading. 1,469,870; Oct. 9.
Allen, Victor M., Waverly, N. Y. Ventilating window shade. 1,470,044; Oct. 9.
Allen, Walter B., Attleboro, Mass. Sanitary drinking device. 1,469,771; Oct. 9.
Allison Coupon Company. (See Jones, G. F., and Allison, assignors.)
Allison, John H. (See Jones, G. F., and Allison.)
Altenkirk, Frank J., St. Louis, Mo. Rubber heel. 1,470,045; Oct. 9.
American Can Company. (See Butler, William F., assignor.)
American Car and Foundry Company. (See Abel, Joseph C., assignor.)
American Car and Foundry Company. (See Baird, William S., assignor.)
American Car and Foundry Company. (See Kassler, Adolph, assignor.)
American Car and Foundry Company. (See Roa, William J., assignor.)
American Car and Foundry Company. (See Willoughby, Victor R., assignor.)
American Car and Foundry Company. (See Yent, Albert G., assignor.)
American Fastener Company. (See Kiessling, Max F., assignor.)
American Hardware Corporation. (See Telch, Ernest L., assignor.)
American Lithographic Company. (See Dietsche, Adolph, jr., assignor.)
American Sheet and Tin Plate Company. (See McIlvried, Howard G., assignor.)
American Steel and Wire Company of New Jersey, The. (See Boley, Ernst, assignor.)
American Telephone and Telegraph Company. (See Hamilton, Baxter, P., assignor.)
American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)
Anderson, Cameron C., and F. Adams, Windsor, Ontario, Canada. Fumigator. 1,469,872; Oct. 9.
Anderson, Ernst G. K., assignor, by mesne assignments, to Appleton Electric Co., Chicago, Ill. Spot extension lamp. 1,469,981; Oct. 9.
Anderson, Ernst G. K., Chicago, Ill., assignor, by mesne assignments, to Appleton Electric Co. Mounting for universal spotlamps. 1,469,982; Oct. 9.
Anderson, Gideon, assignor to The West Gravitiser Corporation, New York, N. Y. Tilting table. 1,470,132; Oct. 9.
Anderson, John N., Lawrence, Mass. Driver for spinning spools. 1,469,983; Oct. 9.
Anderson, Victor C., Minneapolis, Minn. Bucksaw frame. 1,470,372; Oct. 9.
Anderson, William M., Boyceville, Wis. Cow-tail holder. 1,470,046; Oct. 9.
Anderson, William P. (See Bryce, J. W., and Anderson.)
Anti-Corrosion Engineering Company. (See Musselman, Joseph F., assignor.)
Appleton Electric Co. (See Anderson, Ernst G. K., assignor.)
Armstrong, Percy A. E., Loudonville, N. Y. Means for preventing displacement of rollers in roller bearings. 1,469,991; Oct. 9.
Arnold, Satterlee T., assignor to Southern Textile Machinery Company, Paducah, Ky. Electric sadiron. 1,470,047; Oct. 9.
Arntz, Lew, Des Moines, Iowa. Button structure. 1,470,342; Oct. 9.
Ashby, Allen B., Bonners Ferry, Idaho. Forwarding envelope. 1,470,051; Oct. 9.
Asher, W. L., administrator. (See Van Slyke, Moses.)
Askin, Thomas B. H., Denver, Colo., and G. H. Ruggles, Inspiration, Ariz., assignors to F. E. Marcy, Los Angeles, Calif. Ball-mill lining. 1,470,420; Oct. 9.
Astley, James F., Camden, N. J. Wrench. 1,470,421; Oct. 9.
Atherton, Faxon D., jr., San Francisco, Calif. Copying device. 1,470,134; Oct. 9.
Atwood Machine Company. (See Cushman, J. E., and Stanton, assignors.)
Aumiller, Jacob, Mifflinburg, Pa. Pipe-lifting implement. 1,469,911; Oct. 9.
Auto Vacuum Freezer Company. (See White, Norman H., assignor.)
Automatic Company. (See Richardson, Rodney G., assignor.)
Automatic Electric Company. (See Korthäuer, Theodor, assignor.)
Automatic Electric Company. (See Owen, William W., assignor.)
Automatic Electric Company. (See Ray, A. J., and Obergfell, assignors.)
Autosales Corporation. (See Grover, Albert D., assignor.)
Aymar, Gordon C., assignor to Danya, Inc., New York, N. Y. Jar. Des. 63,117; Oct. 9.
Babcock & Wilcox Company, The. (See Jacobus, D. S., and Wolff, assignors.)
Bacon, Raymond F., New York, C. H. Kidwell, New Brighton, N. Y., and P. H. Bascom, Boundbrook, N. J., assignors, by mesne assignments, to Van Heusen Products, Inc. Fabric-treating machine. 1,469,765; Oct. 9.
Baird, William S., Elmhurst, N. Y., assignor to American Car and Foundry Company, St. Louis, Mo. Clasp-brake rigging. 1,470,343; Oct. 9.
Bake Ice Machine Company. (See Hoeschen, Henry A., assignor.)
Baker, Floyd, Cicero, assignor to Sears, Roebuck & Co., Chicago, Ill. Ironing table. 1,410,252; Oct. 9.
Baldwin, Loui H., Oklahoma, Okla. Expansive underreamer. 1,470,316; Oct. 9.
Ballweg, John H., Portland, Oreg. Lamp. 1,470,135; Oct. 9.
Banting, Frederick G., C. H. Best, Toronto, Ontario, and J. B. Collip, Edmonton, Alberta, assignors to the Governors of the University of Toronto, Toronto, Ontario, Canada. Extract obtainable from the mammalian pancreas or from the related glands in fishes, useful in the treatment of diabetes mellitus, and preparing it. 1,469,994; Oct. 9.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Means for and method of applying antioffset material to freshly-printed sheets. 1,470,344; Oct. 9

Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Means for and method of applying antioffset material to freshly-printed sheets. 1,470,345; Oct. 9.
Barker, Thomas J., Kansas City, Mo. Rubber-tire core. 1,470,048; Oct. 9.
Barley, Albert C., Kalamazoo, Mich. Windshield. 1,469,873; Oct. 9.
Barlough, Stephen L., Saginaw, Mich. Reversing device for motor cycles. 1,469,984; Oct. 9.
Barna, Andrew, jr., Chicago, Ill. Cigar or cigarette lighter. 1,469,912; Oct. 9.
Barnes, Harold S. (See Bonneville, J. H., and Barnes.)
Barrett Company, The. (See Craver, Augustus E., assignor.)
Barrier, Raymond, Lubbock, Tex. Reeling device. 1,470,373; Oct. 9.
Barrows, Robert Y., Inc. (See Barrows, Robert Y., assignor.)
Barrows, Robert Y., Rutherford, N. J., assignor to Robert Y. Barrows, Inc. Receptacle. 1,470,049; Oct. 9.
Bascom, Perry H. (See Bacon, R. F., Kidwell, and Bascom.)
Bassett, Charles H., Bridgeport, Conn. Lathe dog. 1,470,346; Oct. 9.
Bateman and Companies. (See Willis, L., and Woodworth, assignors.)
Bath, John, Worcester, Mass. Mechanism for grinding taps. 1,469,965; Oct. 9.
Baudino, John, Herrin, Ill. Combined cap and anti-splash device for gasoline tanks. 1,470,136; Oct. 9.
Baxter, Ernest W. Van Wert, Ohio. Accelerator for automobiles. 1,470,211; Oct. 9.
Beach, H. D., Company, The. (See Pfous, Frank, assignor.)
Beardsley, George A., East Orange, and D. Wardell, Newark, N. J., assignors to Hazel-Atlas Glass Company, Wheeling, W. Va. Vacuumizing machine. 1,469,874; Oct. 9.
Beauregard, Leander P., Chicopee, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Calendering rubber. 1,469,875; Oct. 9.
Beddingfield, William T., Meridian, Miss. Automobile drive gear. 1,470,317; Oct. 9.
Behrend, Bernard A., Brookline, Mass. Speed-changing mechanism. 1,470,050; Oct. 9.
Belcia, Ross I., Ged, La. Engine-controlled clutch-releasing means. 1,470,272; Oct. 9.
Bell, John E. (See Grace, Lynn J., assignor.)
Benner, Harry P. (See Egloff, G., and Benner.)
Benner, Stanley J., and C. V. J. Diehl, Hazleton, Pa. Chain-link construction. 1,470,318; Oct. 9.
Bennett, George R., Pittsburgh, Pa. Mining machine. 1,470,520; Oct. 9.
Benoit & Mathieu. (See Benoit, Mathieu, and Duchesne, assignors.)
Benoit, Antonio, J. L. Mathieu, and H. H. Duchesne, assignors to Benoit & Mathieu, Montreal, Quebec, Canada. Amplifier. 1,469,876; Oct. 9.
Benvie, Herbert, Meriden, Conn. Switch for electric irons. 1,470,323; Oct. 9.
Bergman, Edward, New York, N. Y., assignor to C. Brandes, Incorporated. Tool for assembling spool heads on electromagnet cores. 1,470,212; Oct. 9.
Berngartt, Bernard M. and M. M., Baltimore, Md. Dust cap for valve stems. 1,470,319; Oct. 9.
Berngartt, Maurice M. (See Berngartt, Bernard M. and M. M.)
Berry, Herbert H., London, England. Imitation fire. 1,470,253; Oct. 9.
Best, Charles H. (See Banting, F. G., Best, and Collip.)
Bethlehem Steel Company. (See Schenck, Charles, assignor.)
Bethlehem Steel Company. (See Wilder, Ralph E., assignor.)
Biersdorf, Mathew F., Los Angeles, Calif. Liquid sprayer. 1,470,111; Oct. 9.
Bishop, Adelmer A., deceased, Racine, Wis.; E. M. Bishop, administratrix. Truck. 1,470,254; Oct. 9.
Bishop, Emma M., administratrix. (See Bishop, Adelmer A.)
Black, Walter M., Eaton, Ind. Float valve. 1,470,213; Oct. 9.
Blackburn, Jasper, St. Louis, Mo. Push plug for electric sockets. 1,469,913; Oct. 9.
Blades, Robert, Chicago, Ill. Skinning knife. 1,470,255; Oct. 9.
Blair, Robert S., Sound Beach, Conn. Nonslipping device. 1,469,766; Oct. 9.
Blair, William L., Chicago, Ill. Bookrest. 1,470,052; Oct. 9.
Bloom, Edgar J., Tiffin, Ohio. Force pump. 1,470,347; Oct. 9.
Blum, Joseph K., Greenburgh, assignor to K.-B. Pulverizer Company, New York, N. Y. Disintegrator. 1,469,877; Oct. 9.
Blumenthal, Maurice, Brooklyn, N. Y. Tire wrapper. 1,470,188; Oct. 9.
Bockisch, Heinrich, deceased, Poughkeepsie, by G. W. Gittins, administrator, assignor to Welte-Mignon Corporation, New York, N. Y. Note sheet for automatic musical instruments. 1,470,550; Oct. 9.
Bockisch, Heinrich, deceased, Poughkeepsie, by G. W. Gittins, administrator, assignor to Welte-Mignon Corporation, New York, N. Y. Starting device for synchronizers. 1,470,551; Oct. 9.
Bogle, John C., Oak Park, assignor to Frank B. Cook Company, Chicago, Ill. Fuse. 1,469,767; Oct. 2.
Bolander, Louis P., assignor to L. Ph. Bolander & Son, San Francisco, Calif. Counterbalanced flagpole. 1,470,320; Oct. 9.
Bolander, L. Ph., & Son. (See Bolander, Louis P., assignor.)
Boley, Ernst, Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey. Continuously cleaning and drawing wire. 1,470,374; Oct. 9.
Boley, Ernst, Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey. Continuous-wire-drawing bench. 1,470,375; Oct. 9.
Bolger, Robert S., assignor to International Motor Company, New York, N. Y. Aerial extension ladder. 1,470,139; Oct. 9.
Bolier, George C., Loomis, and E. Clarenbach, Gridley, Calif. Spoke tightener. 1,470,137; Oct. 9.
Bomar, Harry J. (See Wagnon, W. P., and Bomar.)
Bonneville, Joseph H., Stamford, Conn., and H. S. Barnes, Yonkers, N. Y. Manifolding envelopes. 1,469,878; Oct. 9.
Booth, Wallace W., Brooklyn, N. Y. Auxiliary closure for doorways of freight cars. 1,469,914; Oct. 9.
Booth, William N., Detroit, Mich. Metallic felly for vehicle wheels. 1,469,768; Oct. 9.
Booth, William N., Detroit, Mich. Metallic felly and rim for vehicle wheels. 1,469,769; Oct. 9.
Borden Company, The. (See Charland, Louis J., assignor.)
Borough, Willard L. (See Lorraine, D. G., and Borough.)
Bostedo, Louis G., Chicago, Ill. Oil-burning furnace. 1,469,770; Oct. 9.
Boston Pencil Pointer Company. (See Wilson, Allen P., assignor.)
Bott, Wister P., Bernice, La. Dispensing apparatus. 1,469,879; Oct. 9.
Boudeman, Dallas, jr., Kalamazoo, Mich. Shock absorber. 1,469,915; Oct. 9.
Bowden, Junius A., Los Angeles, Calif., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Dust-cap spring. 1,469,880; Oct. 9.
Bowden, Junius A., Los Angeles, Calif., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Spring means for dust caps. 1,469,881; Oct. 9.
Bowden, Junius A., Los Angeles, Calif., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Spring insert for dust caps. 1,469,882; Oct. 9.
Bowes, Walter H., Stamford, Conn. Postmarking and stamp-canceling machine. 1,470,231; Oct. 9.
Bowlus, George G., Burkittsville, Md. Salve or ointment. 1,470,422; Oct. 9.
Bowman, Forest G. (See Vance, C. D., and Bowman.)
Boyd, Harold A. (See Boyd, Thomas A. and H. A.)
Boyd, Thomas A. and H. A., Shettleston, near Glasgow, Scotland. Cop and pirn winding machine. 1,469,986; Oct. 9.
Boynton, Alexander, San Antonio, Tex. Flowing device for oil wells. 1,470,053; Oct. 9.
Brach, L. S. (See Knapp, Jacob, assignor.)
Brady, Walter L., Dehue, W. Va. Trolley-wire hanger. 1,470,423; Oct. 9.
Brakers, John D., St. Louis Park, assignor of fifty-one one-hundredths to G. B. J. Massey, Minneapolis, Minn. Bait-casting device. 1,469,883; Oct. 9.
Brandes, C., Incorporated. (See Bergman, Edward, assignor.)
Bried, Julien A., Oakland, Calif., assignor to H. C. White Company, North Bennington, Vt. Velocipede driving part. 1,469,884; Oct. 9.
Britzwein, Christian F., assignor of one-half to C. H. Voss, St. Louis, Mo. Fishing-line float. 1,469,885; Oct. 9.
Brogden, Thomas W. E., Dungannon, Ireland. Springing of road vehicles and the like. 1,470,424; Oct. 9.
Brooks, Robert A., Chicago, Ill. Flushing apparatus. 1,469,891; Oct. 9.
Broughton, Walter C., Kansas City, Mo. Roof structure. 1,470,054; Oct. 9.
Brown Company. (See Byers, Horace G., assignor.)
Brown Company. (See Cox, John T., assignor.)
Brown Company. (See Ebie, E., and Richter, assignors.)
Brown Company. (See Richter, G. A., and McMurtrie, assignors.)
Brown Company. (See Richter, G. A., and Wightman, assignors.)
Brown Company. (See Richter, George A., assignor.)
Brown, Thomas E., jr. (See Brown, Thomas E. and T. E., jr.)
Brown, Thomas E., New York, and T. E. Brown, jr., Yonkers, N. Y. Bascule bridge. 1,470,140; Oct. 9.
Brueckner, Julius R., assignor to Gibb Instrument Company, Detroit, Mich. Alternating-current transformer. 1,470,214; Oct. 9.
Bruhn, Christian N., Cedar Falls, Iowa. Egg crate. 1,470,215; Oct. 9.
Bryant Electric Company, The. (See Goodridge, Gilbert W., assignor.)

Bryce, James W., Binghamton, N. Y., assignor, by mesne assignments, to Dayton Scale Company, Dayton, Ohio. Weighing scale. 1,469,987; Oct. 9.
Bryce, James W., Bloomfield, and W. P. Anderson, Bogota, N. J., assignors to International Time Recording Company, Endicott, N. Y. Recorder. 1,469,988; Oct. 9.
Bryson, Charles W., assignor to H. L. Wadsworth, Cleveland, Ohio. Sand-mixing device. 1,469,886; Oct. 9.
Bryson, Walter D., Ridley Park, Pa., assignor to Fibre Container Company. Folding box. 1,470,141; Oct. 9.
Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)
Buffalo-Springfield Roller Company, The. (See Aitken, Andrew W., assignor.)
Burch Plow Works Company, The. (See Fike, Joseph L., assignor.)
Burgess, Walter E., Rutherford, N. J., assignor to The Central Foundry Company, New York, N. Y. Sand ejector for flasks. 1,469,888; Oct. 9.
Burleigh, Earmon N. Pittsburgh, assignor of one-half to H. G. Frazier, Carnegie, Pa. Electric alarm clock. 1,469,887; Oct. 9.
Burn, Robinson S., Birmingham, England. Valve for pneumatic tires. 1,470,271; Oct. 9.
Burr, Arthur H., Omaha, Nebr. Radiator attachment. 1,469,916; Oct. 9.
Burt, Harry B., Youngstown, Ohio. Making frozen confections. 1,470,524; Oct. 9.
Burt, Harry B., Youngstown, Ohio. Apparatus for making frozen confections. 1,470,525; Oct. 9.
Busch, Charles H. (See Gall, J. F., and Busch.)
Busch, Louis W., Toledo, Ohio. Fork. 1,470,142; Oct. 9.
Bush Electric Company, The. (See Bush, Hazel B., assignor.)
Bush, Hazel B., Bedford, Ohio, assignor to The Bush Electric Company, Cleveland, Ohio. Lineman's guard. 1,469,989; Oct. 9.
Buterbaugh, John H., Johnstown, Pa. Portable drill. 1,470,143; Oct. 9.
Butler, Robert S., Joplin, Mo. Rail clamp. 1,470,055; Oct. 9.
Butler, William F., Hillside, N. J., assignor to American Can Company, New York, N. Y. Extracting water from pulp gaskets. 1,470,216; Oct. 9.
Byers, Horace G., Montclair, N. J., assignor to Brown Company, Berlin, N. H. Catalyst and making same. 1,470,552; Oct. 9.
Cade, Charles W., Bellevue, assignor to McKinney Manufacturing Company, Pittsburgh, Pa. Truck. 1,470,526; Oct. 9.
Callies, Carl L., Wetaskiwin, Alberta, Canada. Rail-joint-locking device. 1,470,056; Oct. 9.
Caltex Company, The. (See Ostenberg, Zeno, assignor.)
Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Color photography. 1,469,811; Oct. 9.
Card, Lewis O., Somerville, Mass. Dental root-canal point. 1,469,992; Oct. 9.
Carey, James P., New York, N. Y. Hair-growth-removing implement for nostrils and ears. 1,470,527; Oct. 9.
Caron, Telesphore E., and M. Raiche, Kankakee, Ill. Sterilizer and irrigator. 1,470,145; Oct. 9.
Carr, George J., et al., trustees. (See Heslewood, W. R., and Mocine, assignors.)
Carrier Engineering Corporation. (See Carrier, Willis H., assignor.)
Carrier, Willis H., assignor to Carrier Engineering Corporation, New York, N. Y. Method of and apparatus for adding moisture to powdered materials. 1,469,993; Oct. 9.
Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. 1,469,812; Oct. 9.
Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. 1,469,813; Oct. 9.
Carroll, Tyler P., and E. Graff, Seattle, Wash. Reaming device. 1,470,144; Oct. 9.
Carter, Lester L., Palo Alto, Calif. Valve. 1,470,057; Oct. 9.
Cavicchioli, Dante, New York, N. Y. Toy shooter. 1,469,990; Oct. 9.
Central Foundry Company, The. (See Burgess, Walter E., assignor.)
Chaffee, Emory L., Belmont, assignor to J. H. Hammond, jr., Gloucester, Mass. Receiving system for radiant energy. 1,469,889; Oct. 9.
Chambers, Edward, Winchester, England. Trousers presser. 1,470,376; Oct. 9.
Chambers, John E., Shelbyville, Ind. Cooking stove. 1,469,890; Oct. 9.
Chapman, Earle E., assignor to Miller-Chapman Company, Los Angeles, Calif. Auto theft signal. 1,469,772; Oct. 9.
Charland, Louis J., Richmond, Vt., assignor to The Borden Company, New York, N. Y. Can-soldering machine. 1,470,146; Oct. 9.
Chase Companies, Inc. (See Recker, Adolph C., assignor.)
Christy, Frank W., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiving machine. 1,469,892; Oct. 9.
Church, Edgar D., assignor to Jackson & Church Company, Saginaw, Mich. Automatic feeder for jointers. 1,469,995; Oct. 9.
Church, Mary M., executrix. (See Church, Walter F.)
Church, Walter F., deceased, Greeley, Colo.; M. M. Church, executrix. Eye shade for windshields. 1,470,553; Oct. 9.
Clapp, George W., New Rochelle, N. Y., assignor to The Dentists' Supply Company. Means for selection of artificial teeth. 1,469,893; Oct. 9.
Clapp, Solon F., Temple, Tex. Ballast-dressing machine. 1,470,058; Oct. 2.
Clarenbach, Edward. (See Bolier, G. C. L., and Clarenbach.)
Clark, Bernard E., et al. (See Walper, Curry O., assignor.)
Clark, Robert G., assignor to Paragon Can & Cap Company, Inc., Brooklyn, N. Y. Bottle-capping machine. 1,470,348; Oct. 9.
Clark, Robert G., assignor to Paragon Can & Cap Company, Inc., Brooklyn, N. Y. Bottle-capping machine. 1,470,349; Oct. 9.
Clarke, Clem S., Shreveport, La. Casing head. 1,469,894; Oct. 9.
Claus, Carl, Philadelphia, Pa. Display device. 1,470,217; Oct. 9.
Clawson, William, San Francisco, Calif. Knife. 1,470,147; Oct. 9.
Clay, Samuel B., St. Louis, Mo. Blank holder and ejecting device for bolt machines. 1,470,256; Oct. 9.
Cleary, Alfred J. (See Lougheed, Victor, assignor.)
Cleveland Graphite Bronze Company, The. (See Johnson, C. W., and Myers, assignors.)
Coe, John P., Hastings-on-Hudson, N. Y., assignor to Morgan & Wright. Preventing transmigration of vulcanizing agent in rubber. 1,469,895; Oct. 9.
Cohen, Leon, St. Louis, Mo. Combined sweatband and bandeau. 1,469,996; Oct. 9.
Cohn, Albert. (See Debs, Louis H., assignor.)
Collins, William D., Pasadena, Calif., and G. W. H. Allen, Cazenovia, N. Y. Electric switch. 1,470,059; Oct. 9.
Collip, James B. (See Banting, F. G., Best, and Collip.)
Colstad, Charles N., Norfolk Downs, Mass. Shock absorber. 1,470,148; Oct. 9.
Combest, Thomas E., Van Nuys, Calif. Potato-frying device. 1,470,521. Oct. 9.
Contant, William A., assignor to F. B. Pease Company, Rochester, N. Y. Grading machine. 1,470,060; Oct. 9.
Cook, Frank B., Company. (See Bogle, John C., assignor.)
Cooper, Bert, Albuquerque, N. Mex. Clutch mechanism. 1,470,321; Oct. 9.
Cornwall, Frederick R., deceased; M. B. Cornwall, executrix, assignor, by mesne assignments, to M. B. Cornwall, St. Louis, Mo. Monorail system. 1,469,997; Oct. 9.
Cornwall, Frederick R., deceased; M. B. Cornwall, executrix, assignor, by mesne assignments, to M. B. Cornwall, St. Louis, Mo. Monorail carrier. 1,469,998; Oct. 9.
Cornwall, May B., executrix. (See Cornwall, Frederick R.)
Cornwall, May B. (See Cornwall, Frederick R., assignor.)
Costanz, Charles, Brooklyn, N. Y. Lamp globe. Des. 63,118; Oct. 9.
Cottam, John B., Montecito, Calif. Beehive hood and condition indicator. 1,470,112; Oct. 9.
Cottrell, C. B., & Sons Company. (See Barber, Howard, M., assignor.)
Coulter, Fred E., Stratford, Iowa. Folding binder reel. 1,470,061; Oct. 9.
Court, Arthur L., San Francisco, Calif. Ore concentration. 1,470,350; Oct. 9.
Cox, John T., assignor to Brown Company, Berlin, N. H. Apparatus for treating edible fats. 1,469,896; Oct. 9.
Cox, John W., Baraboo, Wis. Combined bell and buzzer. 1,470,062; Oct. 9.
Cox, William G., assignor, by mesne assignments, to The Eaton Axle and Spring Company, Cleveland, Ohio. Resilient guard for automobiles. 1,469,999; Oct. 9.
Cox, William G., assignor, by mesne assignments, to The Eaton Axle and Spring Company, Cleveland, Ohio. Flexible bumper. 1,470,000; Oct. 9.
Cox, William S., College Park, Ga. Insecticide. 1,469,773; Oct. 9.
Coyle, David W., Pasadena, Calif. Advertising sign. 1,470,522; Oct. 9.
Cramer, William. (See Jacobs, I. M., and Cramer.)
Craver, Augustus E., Buffalo, N. Y., assignor to The Barrett Company. Dyestuff prepared from orthoxylylaldehyde. 1,470,554; Oct. 9.
Craver, Augustus E., Buffalo, N. Y., assignor to The Barrett Company. Dyestuff prepared from orthoxylylaldehyde. 1,470,555; Oct. 9.
Crawley, Mansfield C., Groton, N. Y., assignor to Addograph Company, Los Angeles, Calif. Typewriting machine. 1,469,774; Oct. 9.
Crawley, Mansfield C., Rutherford, N. J., assignor to Addograph Company, Los Angeles, Calif. Typewriting machine. 1,469,775; Oct. 9.
Crawley, Mansfield C., Groton, N. Y., assignor to Addograph Company, Los Angeles, Calif. Typewriting machine. 1,469,776; Oct. 9.
Crawley, Mansfield C., Groton, N. Y., assignor to Addograph Company, Los Angeles, Calif. Typewriting machine. 1,469,777; Oct. 9.
Crawley, Mansfield C., Groton, N. Y., assignor to Addograph Company, Los Angeles, Calif. Typewriting machine. 1,469,778; Oct. 9.

Crompton & Knowles Loom Works. (See Jenckes, Lawrence B., assignor.)

Crompton & Knowles Loom Works. (See Mann, Joseph S., assignor.)

Cross, Samuel C., Washington, D. C. Apparatus for storing eggs. 1,469,897; Oct. 9.

Curren, Arthur J., Elyria, Ohio. Automatic telephone-dial support. 1,469,779; Oct. 9.

Curtis, Thomas J., Los Angeles, Calif. Means for operating dampers. 1,470,425; Oct. 9.

Cushman, Joseph E., and N. C. Stanton, assignors to Atwood Machine Company, Stonington, Conn. Stop motion for spinning machinery. 1,470,351; Oct. 9.

Danstrup, Hans E., assignor of one-half to J. Harrison, Brooklyn, N. Y. Double-acting reciprocating pump. 1,470,426; Oct. 9.

Danya, Inc. (See Aymar, Gordon C., assignor.)

Davis, Benjamin H., Boston, Mass. Reenforced and safety sealed-box construction and manufacturing. 1,470,063; Oct. 9.

Davis, Gilbert G. and M. J., Vancouver, British Columbia, Canada. Log raft. 1,470,064; Oct. 9.

Davis, James H., Clairton, Pa. Car-door-locking mechanism. 1,470,149; Oct. 9.

Davis, Joseph W., Ansted, W. Va. Safety holder for mine squibs and detonators. 1,470,150; Oct. 9.

Davis, Matthew J. (See Davis, Gilbert G. and M. J.)

Davis, Morris A., Los Angeles, Calif. Piston ring. 1,470,113; Oct. 9.

Davis, William, assignor to The William D. Davis Machine Company, Philadelphia, Pa. Automatic mail-bag catcher and deliverer. 1,470,427; Oct. 9.

Davis, William D., Machine Company, The. (See Davis, William, assignor.)

Davison, John W., Mattoon, Ill. Lens. 1,469,931; Oct. 9.

Dawson, George H., Cambridge, Mass., assignor to Library Bureau. Index-card support. 1,470,257; Oct. 9.

Dayton Scale Company. (See Bryce, James W., assignor.)

Dayton Scale Company. (See Locke, Edward B., assignor.)

Dean, William W., Wilmette, Ill., assignor to Efficiency Electric Corporation, New York, N. Y. Electrical phonograph driving mechanism. 1,469,780; Oct. 9.

Debs, Louis H., assignor of one-half to A. Cohn, Chicago, Ill. Clamp for baking pans and the like. 1,470,273; Oct. 9.

Debs, Louis H., assignor of one-half to A. Cohn, Chicago, Ill. Baking pan. 1,470,274; Oct. 9.

Diehl, Clinton V. J. (See Banner, S. J., and Diehl.)

De Maine, Ernest M., Alexandria, Va. Recoil-controlling device. 1,469,918; Oct. 9.

Dennen, Philip H., assignor of thirty-nine one-hundredths to T. F. Lynch and ten one-hundredths to W. R. Lynch, Denver, Colo. Collapsible baby carriage. 1,470,151; Oct. 9.

Dentists' Supply Company, The. (See Clapp, George W., assignor.)

Denton, Benjamin A., Morganton, N. C. Handle. 1,470,152; Oct. 9.

De Roiboul, Michel, Paris, France. Electric furnace. 1,470,195; Oct. 9.

De Rouen, Gus, Eldorado, Ark. Coupling clamp. 1,470,485; Oct. 9.

Descombes, Etienne B., Paris, France. Latch for doors of motor vehicles. 1,470,001; Oct. 9.

Dessau, Morland M., London, England. Hand rubber for washing or cleaning purposes. 1,469,917; Oct. 9.

Devner, L. C., et al. (See Owen, James E., assignor.)

Dickerson, Byram S., Mattoon, Ill. Draft gear for trains. 1,470,153; Oct. 9.

Dickson, John B. (See Geer, W. C., and Dickson.)

Dietsche, Adolph, jr., assignor to American Lithographic Company, New York, N. Y. Display device. 1,470,218; Oct. 9.

Dix, George E., Durand, Ill. Heating apparatus. 1,469,898; Oct. 9.

Donnell, Lloyd H., Ann Arbor, Mich. Sound amplifier. 1,469,899; Oct. 9.

Donnianni, James and J., Danbury, Conn. Educational and amusement device. 1,469,919; Oct. 9.

Donnianni, Joseph. (See Donnianni, James and J.)

Dorsey, John W., Winnipeg, Manitoba, Canada. Commutation of dynamo-electric machines. 1,470,428; Oct. 9.

Downer, Lee H., Hopewell, Va. Perpetual calendar. 1,470,065; Oct. 9.

Draughon, Robert V., Waco, Tex. Combined match case and cigarette-paper holder. 1,470,154; Oct. 9.

Drew, Frank C., San Francisco, Calif. Signal for motor-driven vehicles. 1,470,155; Oct. 9.

Dubbs, Carbon P., Wilmette, assignor to Universal Oil Products Company, Chicago, Ill. Gas diaphragm. 1,470,352; Oct. 9.

Dubiller, William. (See Lowenstein, Fritz, assignor.)

Duchesne, Henri H. (See Benoit, A., Mathieu, and Duchesne.)

Duckett, James A., Columbus, Ohio. Vending machine. 1,470,232; Oct. 9.

Duffy, Harry E., St. Paul, assignor of five one-hundredths to A. F. Janiesch, Sleepy Eye, and four-tenths to P. E. Rick, St. Paul, Minn. Automobile elevating jack. 1,470,581; Oct. 9.

Dumars, Gerald, New York, N. Y., assignor of one-half to P. Wing, Westport, Conn. Character transfer device. 1,470,066; Oct. 9.

Dunbar, William E., Jacksonville, Fla. Swivel bracket. 1,470,429; Oct. 9.

Duplex Engine Governor Company. (See Tabb, Warner T., assignor.)

Duriron Company, Inc., The. (See Schenck, Pierce D., assignor.)

Dutchak, John, Hyde Park, Mass. Spring heel. 1,469,920; Oct. 9.

Dutchak, John, Hyde Park, Mass. Fountain pen. 1,469,921; Oct. 9.

Eastman Kodak Company. (See Capstaff, John G., assignor.)

Eastman Kodak Company. (See Carroll, Stewart J., assignor.)

Eastman Kodak Company. (See Folmer, William F., assignor.)

Eastman Kodak Company. (See Lovejoy, Frank W., assignor.)

Eastman Kodak Company. (See Matthews, Irving C., assignor.)

Eastman Kodak Company. (See Robertson, John A., assignor.)

Eastman Kodak Company. (See Seel, Paul C., assignor.)

Eastman Kodak Company. (See Sherman, Frank C., assignor.)

Eastman Kodak Company. (See Tessier, Julien, assignor.)

Eastman Kodak Company. (See Webb, William R., assignor.)

Eaton Axle and Spring Company, The. (See Cox, William G., assignor.)

Ebie, Elwood, and G. A. Richter, assignors to Brown Company, Berlin, N. H. Bleaching celluiosic material. 1,470,556; Oct. 9.

Efficiency Electric Corporation. (See Dean, William W., assignor.)

Egloff, Gustav, and H. P. Benner, Independence, Kans., assignors to Universal Oil Products Company, Chicago, Ill. Apparatus for treating oil. 1,470,353; Oct. 9.

Ehrlich, Herman, Chicago, Ill. Spool holder. 1,470,258; Oct. 9.

Ehrman, Bertha, St. Louis, Mo. Spring clamp. 1,470,259; Oct. 9.

Electro Steel Products Corporation. (See Lachman, Maurice, assignor.)

Elias, Joan J. M., Banjoemas, Java. Machine for planting cuttings. 1,470,067; Oct. 9.

Ellison, Michael C., Huttons, England. Telephone amplifier system. 1,470,430; Oct. 9.

Emerson, Joseph W., Salida, Colo. Hardened water-repellent gypsum plaster and producing the same. 1,470,260; Oct. 9.

Emerson Phonograph Company, Inc. (See Emerson, Victor H., assignor.)

Emerson, Victor H., assignor to Emerson Phonograph Company, Inc., New York, N. Y. Laminated phonograph record and producing same. 1,469,781; Oct. 9.

Emery, Frank A. (See Adams, A. A., and Emery.)

Englander, Benjamin B., assignor to The Englander Spring Bed Company, Brooklyn, N. Y. Hammock. 1,469,782; Oct. 9.

Englander Spring Bed Company. (See Englander, Benjamin B., assignor.)

Eremeeff, Ivan I., Dayton, Ohio. Movable hangar for large aircraft. 1,470,557; Oct. 9.

Erickson, Wilhelmina M., et al. (See Jaeger, Carl, assignor.)

Erwin, Shannon A., Orcutt, Calif. Sucker-rod overshot fishing tool. 1,470,114; Oct. 9.

Essington, Harry M., Chicago, Ill. Storage-battery lamp and means for operating same. 1,469,783; Oct. 9.

Evans, George R., Fresno, Calif. Air cooler. 1,470,156; Oct. 9.

Evans, Peter D., Dayton, Ohio. Door-controlling mechanism. 1,470,431; Oct. 9.

Evans, William T., Mitchell, Nebr. Lantern. 1,470,432; Oct. 9.

Farley, William E., El Reno, Okla. Lubricator. 1,470,068; Oct. 9.

Farr, Frederick G., New York, N. Y. Controlling valve for hydraulic oil storage and distribution systems. 1,470,233; Oct. 9.

Federal Signal Company. (See Hailes, William D., assignor.)

Fellows Gear Shaper Company, The. (See Miller, Edward W., assignor.)

Ferrari, Lorenzo, Oakland, Calif. Aeroplane. 1,470,275; Oct. 9.

Fibre Containing Company. (See Bryson, Walter D., assignor.)

Fike, Joseph L., Shelby, assignor to The Burch Plow Works Company, Crestline, Ohio. Stone spreader. 1,470,157; Oct. 9.

Findlay, Donald M. (See Moloney, P. J., and Findlay.)

Firestone Tire and Rubber Company, The. (See Kepler, Winfred R., assignor.)

First Wisconsin Trust Company, trustee. (See Smith, Reuben S., assignor.)

Fisher, Clarence F., Lancaster, Kans. Antiskid chain. 1,470,069; Oct. 9.

Fisk Rubber Company, The. (See Beauregard, Leander P., assignor.)

Fisk Rubber Company, The. (See Marquette, Melvon A., assignor.)

Fitzgerald, William J., Beloit, Wis. Concrete-working machine. 1,470,002; Oct. 9.

Fleckenstein, John A., assignor to Limousine Body Company, Kalamazoo, Mich. Door and wall panel for vehicles. 1,469,922; Oct. 9.

Fleming, Willis M., Holyoke, Mass., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Pump. 1,470,220; Oct. 9.

Flentjen, Auguste, Geneva, Switzerland. Lock screw. 1,470,528; Oct. 9.

Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-cut-film holder. 1,469,814; Oct. 9.

Forsyth, George H., Chicago, Ill. Disk-wheel assembly. 1,470,222; Oct. 9.

Fowler, Charles, Tomkins Cove, N. Y. Insect catcher. 1,470,435; Oct. 9.

Franklin, William T., et al. (See Jaeger, Carl, assignor.)

Frazier, Henry G. (See Burleigh, Ermon N., assignor.)

Frederick, Harry A., Chicora, Pa. Wireless tie insulator. 1,470,322; Oct. 9.

Freed, Edward G. (See Hopkinson, J., and Freed.)

Freeman, James M., Washoe, Mont. Loading apparatus. 1,470,221; Oct. 9.

Fretschel, Adolph, Almena, Wis. Battery connection. 1,470,433; Oct. 9.

Frey, Elmer E., Long Beach, assignor to Los Angeles Book Machine Company, Los Angeles, Calif. Machine for making books. 1,470,070; Oct. 9.

Frezza, Rocco, Trenton, N. J. Making trousers. 1,470,434; Oct. 9.

Frog Switch & Manufacturing Company, The. (See Pemberton, Edward L., assignor.)

Fuhr, Albert B., Macomb, Ill. Resilient vehicle wheel. 1,470,071; Oct. 9.

Fuller, Albert W., Laurel, Mont. Ditch-cutting machine. 1,469,951; Oct. 9.

Fuller, Claud E., New York, N. Y. Gravity conveyer. 1,470,558; Oct. 9.

Funk, Richard W., Bellefonte, Pa. Trolley wheel. 1,469,784; Oct. 9.

Furman, John W., Point Township, Northumberland County, Pa. Vermin-killing device for plants. 1,470,436; Oct. 9.

Gabrielson, Carl, Syracuse, N. Y. Snap gauge. 1,469,953; Oct. 9.

Gagne, Gideon R., assignor to A. O. Smith Corporation, Milwaukee, Wis. Running board for automobiles. 1,469,785; Oct. 9.

Gahm, Frank, assignor of one-half to W. H. McCormick, Streator, Ill. Attaching means for automobile bumpers. 1,470,003; Oct. 9.

Gahm, Frank, Streator, Ill. Vehicle seat. 1,470,004; Oct. 9.

Gail, John F., Evanston, Ill., and C. H. Busch, assignor to Simmons Company, Kenosha, Wis. Bedstead corner lock. 1,470,072; Oct. 9.

Galloway, Thomas, Superior, Wis. Mechanical hoist. 1,469,900; Oct. 9.

Gardella, August, Princeton, N. J. Swimming device. 1,470,437; Oct. 9.

Gardham, George A., Highland Park, assignor of one-half to A. C. Webster, Detroit, Mich. Stamp and method of forming the same. 1,470,354; Oct. 9.

Garrison, Orlando, Dayton, Ohio. Chuck. 1,470,158; Oct. 9.

Gasolene Corporation. (See Greenstreet, Charles J., assignor.)

Gaspar, Leandro O., Manor, Calif. Camper's kit. 1,470,439; Oct. 9.

Gaylor, Cline. (See Love, B., and Gaylor.)

Geer, William C., and J. B. Dickson, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Method and composition for treating fibrous material. 1,470,073; Oct. 9.

Gem Hammock and Fly Net Company, The. (See Kootz, William and A. C., assignors.)

General Electric Company. (See Schuchardt, Rudolph F., assignor.)

General Electric Company. (See Steenstrup, Christian, assignor.)

General Electric Company. (See Traver, Oliver C., assignor.)

George, Henry C., Philadelphia, Pa. Window. 1,470,223; Oct. 9.

Gerber, Dwight, assignor to National Valve & Manufacturing Company, Pittsburgh, Pa. Pipe support and anchor. 1,470,529; Oct. 9.

Gibb Instrument Company. (See Brueckner, Julius R., assignor.)

Gibson, Francis W., West Roxbury, Mass. Display stand. 1,470,159; Oct. 9.

Gilson, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Turbine blading. 1,469,901; Oct. 9.

Gilson, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Blading. 1,469,902; Oct. 9.

Gittins, George W., administrator. (See Bockisch, Heinrich.)

Glaudel, George, Los Angeles, assignor of one half to G. L. Mitchell, Santa Monica, Calif. Clamp. 1,470,115; Oct. 9.

Gluckman, Charles, New York, N. Y. Handle. 1,470,355; Oct. 9.

Gogay, Henry R., Columbus, Ohio, assignor to Solar-Sturges Mfg. Co. Self-closing receptacle. 1,469,952; Oct. 9.

Golden, Asher, New York, N. Y. Stamp affixer. 1,470,438; Oct. 9.

Gomez, Gines P., Miami, Ariz. Compressed-air drill. 1,470,074; Oct. 9.

Good Inventions Co. (See Good, John, assignor.)

Good, John, Brooklyn, assignor to Good Inventions Co., New York, N. Y. Method and means for starting combustion engines. 1,469,903; Oct. 9.

Goodman, Siegfried, Livingston Manor, N. Y. Resilient support for tires. 1,469,904; Oct. 9.

Goodrich, B. F., Company., The. See Geer, W. C, and Dickson, assignors.)

Goodrich, Howard, Omaha, Nebr. Cosmetic chest. Des. 63,119; Oct. 9.

Goodridge, Hilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Fuse. 1,470,440; Oct. 9.

Gordon, Frank E., Sheffield, England. Teapot and like vessel. 1,470,224; Oct. 9.

Gordon, Iphus H., and C. E. Miles, Lyndonville, Vt. Latch for vehicle doors. 1,470,075; Oct. 9.

Gorman, Henry B., Cambridge, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe. 1,469,831; Oct. 9.

Governors of the University of Toronto. See Banting, F. G., Best, and Collip, assignors.)

Governors of the University of Toronto (See Moloney, P. J., and Findlay, assignors.)

Grace, Lynn J., assignor of one-half to J. E. Bell, Chicago, Ill. Edge setter and burnisher. 1,470,076; Oct. 9.

Graff, Edward. (See Carroll, T. P., and Graff.)

Graham, Joseph F., Brooklyn, N. Y. Pyjamas. 1,470,356; Oct. 9

Grasselli Chemical Company, The. (See Wallach, Roger N., assignor.)

Gravell, James H., Elkins Park, Pa., assignor to Thomson Electric Welding Company, Boston, Mass. Chain-link welding. 1,470,160; Oct. 9.

Gray, George E., Compton, Calif. Apparatus and process for condensing casing-head gas and the like. 1,470,116; Oct. 9.

Gray, George A. (See Johnson, P., and Gray.)

Gray, John R., Goose Creek, assignor of one-half to E. Leach, Bexar County, Tex. Pipe tongs. 1,470,161; Oct. 9.

Green, Warren T., St. Louis, Mo., assignor to The Mengel Company, Louisville, Ky. Toy vehicle. 1,470,441; Oct. 9.

Greenbaum, Fannie. (See Greenbaum, Harry M., assignor.)

Greenbaum, Harry M., assignor to F. Greenbaum, Cleveland, Ohio. Pocket coin holder. 1,470,357; Oct. 9.

Greenbaum, Harry M., assignor to F. Greenbaum, Cleveland, Ohio. Pocket coin holder. 1,470,358; Oct. 9.

Greenstreet, Charles J., St. Louis, Mo., assignor to Gasolene Corporation. Removing carbon from metal pipes. 1,470,359; Oct. 9.

Grosjean, James E., Lima, Ohio. Making vulcanized products. 1,470,442; Oct. 9.

Grover, Albert D., New York, N. Y., assignor to Autosales Corporation. Coin-controlled mechanism for vending machines. 1,470,234; Oct. 9.

Gruss, Francis J., San Francisco, Calif. Sanitary dental handpiece cover. 1,470,162; Oct. 9.

Haas, Joseph F. (See Landeweer, H., and Haas.)

Haack, William F., Berwyn, Ill. Lead pencil. 1,469,786; Oct. 9.

Haack, William F., Berwyn, Ill. Lead pencil. 1,469,787; Oct. 9.

Hafer, Myron L., and J. H. Rosenberg, Philadelphia, Pa. Locking device for savings deposit boxes. 1,470,360; Oct. 9.

Hagan, Chester A., New York, N. Y. Window lock. 1,470,005; Oct. 9.

Haight, Arthur M., Jackson, Mich. Signal lock for automobiles. 1,470,443; Oct. 9.

Haight, Harry V., Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J. Plate-valve unloader. 1,470,077; Oct. 9.

Hailes, William D., assignor to Federal Signal Company, Albany, N. Y. Alternating-current relay. 1,470,566; Oct. 9.

Hall, Bicknell, Abington, assignor to Hall Co., Boston, Mass. Variable-speed mechanism. 1,470,560; Oct. 9.

Hall, Bicknell, Abington, assignor to Hall Co., Boston, Mass. Variable-speed mechanism. 1,470,561; Oct. 9.

Hall, Bicknell, Abington, assignor to Hall Co., Boston, Mass. Variable-speed mechanism. 1,470,562; Oct. 9.

Hall, Bicknell, Abington, assignor to Hall Co., Boston, Mass. Transmission mechanism. 1,470,564; Oct. 9.

Hall, Bicknell, Abington, assignor to Hall Co., Boston, Mass. Transmission mechanism. 1,470,565; Oct. 9.

Hall, Bicknell, Taunton, assignor to Hall Co., Boston, Mass. Speed-varying mechanism. 1,470,559; Oct. 9.

Hall, Bicknell, Taunton, assignor to Hall Co., Boston, Mass. Variable-speed mechanism. 1,470,563; Oct. 9.
Hall, Charles S., Los Angeles, Calif. Aircraft propeller. 1,470,163; Oct. 9.
Hall Co. (See Hall, Bicknell, assignor.)
Hall, Ray E., Chicago, Ill., assignor to Hall Research Corporation. Circuit-controlling means. 1,469,905; Oct. 9.
Hall Research Corporation. (See Hall, Ray E., assignor.)
Halleck, Frank A., Oak Park, Ill., assignor to Sullivan Machinery Company. Forging-machine device. 1,470,444; Oct. 9.
Halterman, James R., Miles City, Mont. Grinding bar. 1,470,164; Oct. 9.
Hamilton, Baxter P., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Selective circuits for Multiplex signaling. 1,469,832; Oct. 9.
Hammond, John H., jr. (See Chaffee, Emory L., assignor.)
Haney, Edwin H., Los Angeles, Calif. Lubricating system for automobiles. 1,470,165; Oct. 9.
Hansen, Augie L., Evanston, Ill. Tufting needle. 1,469,906; Oct. 9.
Hanson, Bengt M. W., Hartford, Conn. Chuck. 1,469,833; Oct. 9.
Hare, Charles N., Los Angeles, Calif. Ocean compressed-air power. 1,470,361; Oct. 9.
Harrington, Lorretta C., St. Paul, Minn. Bracket. 1,470,261; Oct. 9.
Harrison, Joseph. (See Danstrup, Hans E., assignor.)
Hart, Henry R., Montclair, N. J. Playing ball. 1,469,907; Oct. 9.
Hasbrouck, Matthew F., New York, N. Y. Swimming-pool locker construction. 1,470,567; Oct. 9.
Hastings, Herbert, Rochester, N. Y. Oil gauge. 1,469,933; Oct. 9.
Hathaway, Junius B., and A. R. McDiarmid, Brandon, Manitoba, Canada. Steering tongue. 1,469,834; Oct. 9.
Hawkins, Clement C., Port Neches, Tex., assignor to The Texas Company, New York, N. Y. Molding asphalt. 1,470,008; Oct. 9.
Hawley, George W., Bridgeport, Conn., assignor to The Kny-Scheerer Corporation of America. Self-freeing orthopedic table. 1,470,362; Oct. 9.
Hazard, Merlin C., Huntington Beach, Calif. Combination rope socket and jar. 1,470,445; Oct. 9.
Hazel-Atlas Glass Company. (See Beardsley, G. A., and Wardell, assignors.)
Hazelbaker, Harry D., Portsmouth, Ohio. Tire-inflating device. 1,470,448; Oct. 9.
Head, Robert, Yonkers, N. Y., assignor to The Aeolian Company. Transposer for automatic pianos and the like. 1,470,364; Oct. 9.
Head, Robert, Yonkers, N. Y., assignor to The Aeolian Company. Transposing tracker bar. 1,470,363; Oct. 9.
Heller, Benjamin, Chicago, Ill. Sealing closed containers. 1,469,923; Oct. 9.
Hellenthal, Karl, deceased, Chicago, Ill.; E. F. Link and M. Reinel, executors. Vehicle suspension means. 1,469,788; Oct. 9.
Hellwarth, Russell O., Celina, Ohio. Transmission mechanism. 1,470,078; Oct. 9.
Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,470,568; Oct. 9.
Henriksen, Oscar, Argyle, Minn. Ventilator. 1,470,262; Oct. 9.
Herbst, Jacob, San Francisco, Calif. Sheet-metal heating stove. 1,470,365; Oct. 9.
Herr, Herbert T., Merion, Pa., assignor to Westinghouse Electric and Manufacturing Company. Elastic-fluid turbine. 1,469,908; Oct. 9.
Herr, Herbert T., Philadelphia, Pa., assignor to Westinghouse Electric and Manufacturing Company. Turbine blading. 1,469,909; Oct. 9.
Heslewood, William R., and H. F. Mocine, Oakland, Calif., assignors to H. F. Mocine, W. R. Heslewood, G. J. Carr, and E. B. Kimball, trustees of the M. and H. Piston Ring Company. Piston ring. 1,470,263; Oct. 9.
Heslewood, William R., et al., trustees. (See Heslewood, W. R., and Mocine, assignors.)
Hess, Edward B., Manhattan Beach, assignor to Royal Typewriter Company, inc., New York, N. Y. Typewriting machine. 1,469,934; Oct. 9.
Hinerman, John G., Aleppo, Pa. Demountable rim. 1,470,569; Oct. 9.
Hodgson, Harriette E., New York, N. Y. Fixed signal system for protecting danger points on railways. 1,470,009; Oct. 9.
Hoeschen, Henry A., assignor of one-half to Baker Ice Machine Company, Omaha, Nebr. Thermostatic switch. 1,470,079; Oct. 9.
Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Oil stove. 1,469,789; Oct. 9.
Hogue, Charles L., Oakland, Calif. Hook for eyeglass chains. 1,470,264; Oct. 9.
Hohmann, Charles, Jersey City, N. J. Measuring triangle. 1,470,530; Oct. 9.
Hohnbach, Robert, Chicago, Ill. Valve-facing tool 1,469,935; Oct. 9.
Hokanson, Helge, Washington, N. J. Time-controlled switch. 1,470,323; Oct. 9.
Hokanson, Martin, Duluth, Minn. Apparatus for classifying granular materials. 1,470,531; Oct. 9.
Holdinghausen, William A., Clovis, N. Mex. Engine. 1,469,836; Oct. 9.
Hole, Morris C., assignor of one-half to D. B. Willcuts, McKittrick, Calif. Pumping jack. 1,470,080; Oct. 9.
Holland, Dudley, Duluth, Minn. Chest and container. 1,470,166; Oct. 9.
Holland, Frank E., Corpus Christi, Tex. Hemstitching attachment for sewing machines. 1,469,936; Oct. 9.
Holmes, Arthur S., Oshkosh, Wis. Workholding attachment for milling machines. 1,470,265; Oct. 9.
Holmes, Harry N., Oberlin, Ohio. Removal of scale and rust from iron and steel. 1,470,225; Oct. 9.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,470,570; Oct. 9.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,470,571; Oct. 9.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,470,572; Oct. 9.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,470,573; Oct. 9.
Hopedale Manufacturing Company. (See Northrop, Jonas, assignor.)
Hopedale Manufacturing Company. (See Tucker, Charles N.)
Hopkinson, Joseph and E. G. Freed, assignors to International Scale Company, Dayton, Ohio. Portable scale. 1,470,010; Oct. 9.
House, Henry A., jr., Buffalo, N. Y. Filling apparatus. 1,470,235; Oct. 9.
Hubbell, Geo. H. (See Watts, Ruffey E., assignor.)
Hunt, Chester, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making heels. 1,469,835; Oct. 9.
Hunter, Samuel, Bellevue, Pa. Removable body for automobiles. 1,470,324; Oct. 9.
Huntington, Charles M., East Randolph, N. Y. Washing machine. 1,469,837; Oct. 9.
Huntting, Samuel E., Almaeda, Calif. Pump. 1,470,081; Oct. 9.
Husher, Thomas S., Boston, Mass. Steam-shovel attachment. 1,470,532; Oct. 9.
Huston, George H., Cincinnati, Ohio. Automatic draft regulator. 1,470,325; Oct. 9.
Hutchinson, Alexander W., Boston, Mass. Tank control for motor vehicles. 1,469,937; Oct. 9.
Hysko, Hipolit H., Detroit, Mich. Bell-trap floor drain. 1,469,790; Oct. 9.
Ianni, Emidio, New Derry, Pa. Rail joint. 1,470,167; Oct. 9.
Ing, Camillo Olivetti & C. (See Modigliani, Gino, assignor.)
Ingersoll, Howard L., White Plains, N. Y. Booster motor for locomotives. 1,470,082; Oct. 9.
Ingersoll-Rand Company. (See Haight, Harry V., assignor.)
Ingersoll-Rand Company. (See McIntyre, James K., assignor.)
Inter-State Optical Corporation. (See Kirkegaard, Georg, assignor.)
International Motor Company. (See Bolger, Robert S., assignor.)
International Scale Company. (See Hopkinson, J., and Freed, assignors.)
International Scale Company. (See Osgood, L. A., and Wolf, assignors.)
International Scale Company. (See Wolf, Elmer E., assignor.)
International Time Recording Company. (See Bryce, J. W., and Anderson, assignors.)
Jackson & Church Company. (See Church, Edgar D., assignor.)
Jackson, C. Hewlett. (See Moore, Lonnie M., assignor.)
Jacobs, Isidor M., and W. Cramer, assignors to Truck Tractor & Manufacturing Company, St. Louis, Mo. Belt-fastening device. 1,469,924; Oct. 9.
Jacobs, St. Charles, Coney Island, Brooklyn, N. Y. Traveling swing. 1,469,910; Oct. 9.
Jacobus, David S., Jersey City, N. J., and J. Wolff, East Cleveland, Ohio, assignors to The Babcock & Wilcox Company, Bayonne, N. J. Steam boiler. 1,470,006; Oct. 9.
Jacoby, Charles B., Nanticoke, Pa. Combination tool. 1,469,838; Oct. 9.
Jaeger, Carl, Minneapolis, assignor of one-half to W. T. Franklin, one-eighth to A. G. Walter, St. Paul, and one-tenth to W. M. Erickson, Minneapolis, Minn. Mechanical refrigerator. 1,470,574; Oct. 9.
Jagielski, Michael, Grand Rapids, Mich. Animal-releasing device. 1,469,791; Oct. 9.
Janet Garment Company. (See Stephens, Dana M., assignor.)
Janiesch, Anna F., et al. (See Duffy, Harry E., assignor.)
Jenelck, Stephen, assignor to G. A. Schanze, Cleveland, Ohio. Starting device for internal-combustion engines. 1,470,447; Oct. 9.
Jenckes, Lawrence B., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Friction release for Axminster looms. 1,470,007; Oct. 9.
Jepsen, Hans H., San Francisco, Calif. Scribing instrument. 1,470,168; Oct. 9.

Johnesse, Frank E., Boise, Idaho. Pan concentrator. 1,470,011; Oct. 9.
Johns-Manville, Incorporated. (See Walsh, Joseph H., assignor.)
Johnson, Carl W., East Cleveland, and J. L. Myers, Cleveland Heights, assignors to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Installing bushings. 1,469,793; Oct. 9.
Johnson, Lawrence E., Melrose, assignor to Victor Shoe Machinery Co. of 1919, Lynn, Mass. Rough rounder and channeling machine. 1,470,083; Oct. 9.
Johnson, Nels A., Jamestown, N. Y. Removable-blade screw driver. 1,469,792; Oct. 9.
Johnson, Peter, and G. A. Gray, Arlington, N. J. Unbreakable antiglare lens. 1,470,448; Oct. 9.
Johnson, Victor S., assignor to The Mantle Lamp Company of America, Chicago, Ill. Heat-insulated vessel. 1,470,366; Oct. 9.
Johnston, Walter R., Vallejo, Calif. Can-turning device for washing machines. 1,470,533; Oct. 9.
Jones, Arthur D., Des Moines, Iowa. Metal post. 1,470,367; Oct. 9.
Jones, George F., and J. H. Allison, Indianapolis, Ind., assignors to Allison Coupon Company. Coupon book. 1,470,012; Oct. 9.
K.-B. Pulverizer Company. (See Blum, Joseph K., assignor.)
Kail, Charles E., assignor to The A. & J. Manufacturing Co., Binghamton, N. Y. Egg beater. 1,470,169; Oct. 9.
Kail, Charles E., assignor to The A. & J. Manufacturing Co., Binghamton, N. Y. Egg beater. 1,470,170; Oct. 9.
Kaminski, Paul, Berlin-Pankow, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, Germany. Electric signaling system. 1,470,368; Oct. 9.
Kaminski, Paul, Berlin-Pankow, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Teleadjuster for guns and the like. 1,470,369; Oct. 9.
Kasley, Alexander T., Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine. 1,469,925; Oct. 9.
Kassler, Adolph, assignor to American Car and Foundry Company, New York, N. Y. Door-latching means. 1,470,370; Oct. 9.
Kawashima, Kiyoshi, Mitsugi-gun, Japan. Manufacture of a coating for cloths for aeroplane wings or planes and the like. 1,469,839; Oct. 9.
Keiper, Jacob. (See Keiper, Stephen J., assignor.)
Keiper, Stephen J., New York, assignor of one-half to J. Keiper, Staten Island, N. Y. Tube squeezer. 1,470,534; Oct. 9.
Kellogg, Leroy D., Deerfield, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. 1,469,794; Oct. 9.
Kellogg Switchboard and Supply Company. (See Kellogg, Leroy D., assignor.)
Kelloway, Charles J., Wilmington, N. C. Railway-switch-operating means. 1,470,226; Oct. 9.
Kennedy, Albert H., Rockport, Ind. Mathematical apparatus. 1,469,954; Oct. 9.
Kennedy, George C., Waterloo, Iowa. Combination container. 1,469,938; Oct. 9.
Kepler, Winfred R., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire-repairing tool. 1,470,575; Oct. 9.
Keppler, Arthur C., South Bend, Ind. Signal-arm-actuating device. 1,470,013; Oct. 9.
Kidwell, Cleo H. (See Bacon, R. F., Kidwell, and Bascom.)
Klessling, Max F., assignor to American Fastener Company, Waterbury, Conn. Snap fastener. 1,470,267; Oct. 9.
Kimball, E. B., et al., trustees. (See Heslewood, W. R., and Mocine, assignors.)
Kimberling, Webb, Norton, Va. Pole-raising apparatus. 1,470,377; Oct. 9.
Kinsthetic Process Co. (See Thomas, William I., assignor.)
Kirchner, Henry W., St. Louis, Mo. Interchangeable-unit carrier. 1,470,266; Oct. 9.
Kirkegaard, Georg, assignor to Inter-State Optical Corporation, Brooklyn, N. Y. Lens-grooving machine. 1,469,926; Oct. 9.
Kirkland, Carroll M., Seattle, Wash., assignor to Miller Saw Trimmer Company, Pittsburgh, Pa. Paper-feeding device for printing presses. 1,470,588; Oct. 9.
Klawans, Harry I., Chicago, Ill. Mop material. 1,469,940; Oct. 9.
Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Lighting unit. 1,470,227; Oct. 9.
Kleinlogel, Adolf, Darmstadt, Germany. Manufacturing artificial building materials. 1,470,378; Oct. 9.
Knapp, Jacob, assignor to L. S. Brach, Newark, N. J. Alcohol torch. 1,469,795; Oct. 9.
Knight, Herbert C., Lynn, Mass. Load-supporting means for motor vehicles. 1,470,171; Oct. 9.
Knight, Herbert M., Montclair, N. J. Highway construction. 1,469,939; Oct. 9.
Knowland, Richard G., Boston, Mass. Deoxidizing water. 1,470,084; Oct. 9.
Knowlton, Cutler D., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Feed mechanism. 1,469,840; Oct. 9.
Kny-Scheerer Corporation of America, The. (See Hawley, George W., assignor.)
Koch, Lydia B. (See Thompson, Clarence L., assignor.)
Kochanski, Joseph, Chicago, Ill. Overcoat. 1,470,449; Oct. 9.
Kochanski, Joseph, Chicago, Ill. Overcoat. 1,470,450; Oct. 9.
Kolb, Fred A., Newark, N. J. Decorating leather or similar material. 1,470,535; Oct. 9.
Kootz, Arthur C. (See Kootz, William and A. C.)
Kootz, William, and A. C., assignors to The Gem Hammock and Fly Net Company, Milwaukee, Wis. Mop. 1,470,014; Oct. 9.
Korthäuer, Theodor, Siemensstadt, near Berlin, Germany, assignor to Automatic Electric Company, Chicago, Ill. Telephone-exchange system. 1,470,451; Oct. 9.
Kosman, Josef, Maspeth, N. Y. Draft-controlling damper. 1,470,326; Oct. 9.
Kraft, Henry P., Ridgewood, N. J. Tire valve. 1,469,927; Oct. 9.
Kresser, Leo, Springfield, Mass. Oil burner. 1,470,379; Oct. 9.
Kreutz, Vernon C., assignor of one-half to E. B. Wheat, Portland, Oreg. Automatic percolator. 1,470,584; Oct. 9.
Kuen, Charles W., Chicago, Ill. Receiver support for sound amplifiers. 1,469,941; Oct. 9.
Kuhn, Thomas F., Elkhart, Ind. Corn cutting and shocking machine. 1,470,085; Oct. 9.
Kusterle, Frank, assignor to Simmons Company, Kenosha, Wis. Corner fastening. 1,470,015; Oct. 9.
Kutsche, Alfred P., and A. A. Winter, Milwaukee, Wis. Window-sash lock. 1,470,380; Oct. 9.
Kutsche, Arthur H., Monroe, Mich. Spring wheel. 1,470,452; Oct. 9.
Labachotte, Roy G., Porterville, Calif. Automatic lock for release valves. 1,470,173; Oct. 9.
Labombarde, Elie W., Nashua, N. H. Paper drinking cup and making same. 1,470,172; Oct. 9.
Lachman, Maurice, assignor to Electro Steel Products Corporation, New York, N. Y. Metal pole. 1,470,174; Oct. 9.
Lafreniere, Ell, Westfield, Mass. Grapple. 1,470,327; Oct. 9.
Laise, Clemens A., Weehawken, N. J. Refractory metal product and making same. 1,470,175; Oct. 9.
Lake, Christopher J., Bridgeport, Conn. Aircraft. 1,469,796; Oct. 9.
Lake Laboratories Company. (See Trotter, George C., assignor.)
Lamb, Harry, New Westminster, Canada, assignor to Swift & Company, Chicago, Ill. Filling machine. 1,470,381; Oct. 9.
Lambie, Arthur M. (See Lambie, Frederick W., assignor.)
Lambie, Frederick W., Minneapolis, Minn., assignor to A. M. Lambie, Chicago, Ill. Velocipede. 1,470,576; Oct. 9.
Lance, Ernst G., Detroit, assignor of one-half to O. C. Russ, Lake Odessa, Mich. Window fastener. 1,470,382; Oct. 9.
Landeweer, Henry, and J. F. Haas, Chicago, Ill. Curtain holder for automobile curtains. 1,470,454; Oct. 9.
Landis, Irwin D., assignor to Universal Conveyor Co., South Bend, Ind. Pivotal dump bucket. 1,470,086; Oct. 9.
Lang, John W., Redondo Beach, Calif. Chair. 1,470,455; Oct. 9.
Lange, Ernest A., Claresholm, Alberta, Canada. Container bandle. 1,470,536; Oct. 9.
Langos, Otto A. (See Russell, F. C., and Langos.)
Langhlin, J. Page, Holdings Company. (See Rossignol, Aaron T., assignor.)
Lauth, Jacob, Chicago, Ill. Clutch mechanism. 1,470,268; Oct. 9.
La Valley, Wallace, Hancock, N. Y. Animal trap. 1,470,453; Oct. 9.
Lawlor, Simeon C., Chicago, Ill. Wringing apparatus. 1,469,942; Oct. 9.
Lawrence, William, Harcourt, Iowa. Combination scoop board and end gate. 1,470,269; Oct. 9.
Lawrie, Harold N. (See White, U. B., and Lawrie.)
Lazar, Leon, New York, N. Y. Adjustable spotlight for dental chairs. 1,469,841; Oct. 9.
Lazar, Leon, New York, N. Y. Adjustable spotlight for dental chairs. 1,469,928; Oct. 9.
Leach, Ed. (See Gray, John R., assignor.)
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Loop-strap-securing device for automobile tops. 1,469,929; Oct. 9.
Lemke, William H., Harlan, Iowa. Garment hanger. 1,470,456; Oct. 9.
Lesher, Eugene E., Braddock, N. Dak. Motor sleigh. 1,470,087; Oct. 9.
Leslie, John W., Evanston, Ill. Preparing goods for shipment. 1,469,797; Oct. 9.
Lewis, Frank E. (See Woodward, J. W., and Lewis.)
Lewis, Lloyd V. (See McCann, R. A., and Lewis.)
Liale, John L., Redlands, Calif. Ironing board. 1,470,457; Oct. 9.
Library Bureau. (See Dawson, George H., assignor.)

Liebknecht, Otto, Frankfort-on-the-Main, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Reenforced platinum anode for production of persalts. 1,470,577; Oct. 9.

Light, Ralph A., and J. W. Price, jr., assignors to The United States Metallic Packing Company, Philadelphia, Pa. Making metallic rings and packing-ring blank. 1,470,537; Oct. 9.

Limousine Body Company. (See Fleckenstein, John A., assignor.)

Lindbloom, Albert C., Chicago, Ill. Packing device for valve stems. 1,470,276; Oct. 9.

Link, Emil F., et al., executors. (See Hellenthal, Karl.)

Lister, Edwin, executor. (See Lister, Joseph.)

Lister, Joseph, deceased, Chicago, Ill.; E. Lister, executor. Rendering process. 1,470,228; Oct. 9.

Livingston, Frank S., assignor to Snow Manufacturing Company, Los Angeles, Calif. Double-lever gate lock. 1,470,270; Oct. 9.

Livingston, Thomas P., North Augusta, S. C. Automatic window shade. 1,469,842; Oct. 9.

Llewellyn, George E., Eau Claire, Wis., assignor, by mesne assignments, to Sanitary Novelties Company. Collapsible bottle holder. 1,470,383; Oct. 9.

Lloyd, Amsey P., Elkhart, Ind. Wood binder. 1,469,843; Oct. 9.

Locke, Edward R., Detroit, Mich., assignor, by mesne assignments, to Dayton Scale Company, Dayton, Ohio. Weighing scale. 1,470,016; Oct. 9.

Lockert, George H., Elmwood, Okla. Animal poke. 1,470,458; Oct. 9.

Loftus, Andrew B., Archibald, Pa. Automatic regulator. 1,470,277; Oct. 9.

Long, Charlie, Lincoln, Nebr. Combination cattle and hog watering fountain. 1,470,384; Oct. 9.

Lonsinger, Charles L., Walhonding, Ohio. Pontoon-supported derrick. 1,470,459; Oct. 9.

Lorraine, David G., Los Angeles, and W. L. Borough, Fullerton, Calif. Adjustable-flow nipple. 1,470,460; Oct. 9.

Los Angeles Book Machine Company. (See Frey, Elmer E., assignor.)

Lougheed, Victor, assignor to A. J. Cleary, San Francisco, Calif. Wing for flying machines. 1,470,017; Oct. 9.

Love, Benson, and C. Gaylor, Woolrich, Pa. Check valve. 1,470,018; Oct. 9.

Lovejoy, Frank W., assignor to Eastman Kodak Company, Rochester, N. Y. Making composite films. 1,469,815; Oct. 9.

Lowenstein, Fritz, deceased; J. C. Wait, administrator, assignor to W. Dubilier, New York, N. Y. Wireless communication. 1,470,088; Oct. 9.

Lynch, Joseph F., Stockton, Calif. Direction signal for automobiles. 1,470,236; Oct. 9.

Lynch, Thomas F., et al. (See Dennen, Philip H., assignor.)

Lynch, William R., et al. (See Dennen, Philip H., assignor.)

Lynds, Fred H., North Attleboro, Mass., assignor to Whiting & Davis Company. Support for link-mesh fabric. 1,470,019; Oct. 9.

McCann, Ronald A., Swissvale, and L. V. Lewis, Edgewood Borough, assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,469,799; Oct. 9.

McCleary, Alfred W., Des Moines, Iowa. Holder for swinging doors. 1,469,800; Oct. 9.

McCormick, Wallace H. (See Gahm, Frank, assignor.)

McCoy, William H. (See Scully, J., and McCoy.)

McCulloch, Herbert V., Minneapolis, Minn. Identification clamp. 1,470,280; Oct. 9.

McDiarmid, Alfred R. (See Hathaway, J. B., and McDiarmid.)

McIlvried, Howard G., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Doubler. 1,469,846; Oct. 9.

McIntosh, George A., Chelmsford, Mass. Metallic bobbin, spool, and the like. 1,469,930; Oct. 9.

McIntyre, James K., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Centrifugal pump. 1,470,022; Oct. 9.

McKenney, Walter A., Corinna, Me. Attachment for sprayers. 1,469,801; Oct. 9.

McKinney Manufacturing Company. (See Cade, Charles W., assignor.)

McLeroth, T. B., (Tubes) Limited. (See McLeroth, Thomas B., assignor.)

McLeroth, Thomas B., assignor to T. B. McLeroth (Tubes) Limited, London, England. Air tube for pneumatic tires. 1,470,239; Oct. 9.

McMurtrie, Douglas H. (See Richter, G. A., and McMurtrie.)

McNaughton, Hart H., Maryville, Tenn. Pulverizing machine. 1,470,177; Oct. 9.

Maclean, James M., Vancouver, British Columbia, Canada. Means for vaporizing liquid fuel. 1,470,461; Oct. 9.

MacRae, Nelson, Wilmington, N. C. Game. 1,470,117; Oct. 9.

Macura, Mike, Hastings-on-Hudson, N. Y. Burglar alarm. 1,469,943; Oct. 9.

Maiden, Leonard L., Detroit, Mich. Engine. 1,470,462; Oct. 9.

Malewig, Peter, and J. Wallace, Chicago, Ill. Typographic numbering machine. 1,470,278; Oct. 9.

Maltby, Arthur T., Chicago, Ill. Resilient wheel for vehicles. 1,470,089; Oct. 9.

Manchester, Henry C., Scranton, Pa. Oil cup for crosshead guides. 1,470,176; Oct. 9.

Mann, Joseph S., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Shuttle-guide block for narrow-ware looms. 1,469,844; Oct. 9.

Manning, Fred W., Chicago, Ill. Drainage plate for filters. 1,470,463; Oct. 9.

Manning, Rollo G., Ambridge, Pa. Rail clamp. 1,470,090; Oct. 9.

Mantle Lamp Company of America, The. (See Johnson, Victor S., assignor.)

Marcussen, Jacob S., Copenhagen, Denmark. Tabulator for typewriters. 1,470,464; Oct. 9.

Marcy, Frank E. (See Askin, T. B. H., and Ruggles, assignors.)

Marquette, Melvon A., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Manufacture of bead fillers. 1,470,465; Oct. 9.

Martel, Edgar J., Laconia, N. H. Steering-wheel switch control. 1,470,237; Oct. 9.

Martell, Albert A., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Floating reamer. 1,470,020; Oct. 9.

Martin, Alfred M., Chicago, Ill. Record-card-filing device. 1,469,708; Oct. 9.

Martin Automatic Fishing Reel Company. (See Maury, Alfred D., assignor.)

Maslen, Frank A., et al. (See Walper, Curry O., assignor.)

Massey, George B. J. (See Brakers, John D., assignor.)

Mathes, Robert C., assignor to Western Electric Company, Incorporated, New York, N. Y. Repeater system. 1,470,238; Oct. 9.

Mathieu, Joseph L. (See Benoit, A., Mathieu, and Duchesne.)

Matthews, Irving C., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether composition. 1,469,816; Oct. 9.

Maury, Alfred D., Ilion, assignor to Martin Automatic Fishing Reel Company, Mohawk, N. Y. Automatic fishing reel. 1,469,845; Oct. 9.

Mayo, Charles M., Indianapolis, Ind. Forming receptacles. 1,470,021; Oct. 9.

Meade, Grover H., San Jose, Calif. Route indicator. 1,470,385; Oct. 9.

Mellenthin, Edwin E., Waukesha, Wis. Governor for electric motor drives. 1,469,802; Oct. 9.

Melson, Jonathan C., Providence, R. I. Automatic attachment for fire-extinguisher systems. 1,470,178; Oct. 9.

Melville, Thomas A., Jerome, Ariz. Elevator interlock. 1,470,279; Oct. 9.

Mengel Company, The. (See Green, Warren T., assignor.)

Merrill, Moses C., Buxton Center, Me. Measuring rule. 1,469,944; Oct. 9.

Messenger, Jack E., Des Moines, Iowa. Spring for chocker valves. 1,470,583; Oct. 9.

Messick, Turner B. (See Packer, M. L., and Messick.)

Metzger, Samuel J. T., Williamsport, Pa. Flush-valve construction. 1,470,179; Oct. 9.

Michelson, Julius, Boston, Mass. Milling attachment for planers. 1,470,091; Oct. 9.

Miles, Clarence E. (See Gordon, I. H., and Miles.)

Miller-Chapman Company. (See Chapman, Earle E., assignor.)

Miller, Edward, Columbus, Ohio, assignor to C. J. Root, Terre Haute, Ind. Glass-feeding mechanism. 1,470,023; Oct. 9.

Miller, Edward W., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Gear-shaping machine with side-trimming attachment. 1,470,229; Oct. 9.

Miller, Henry, Milwaukee, Wis. Lock for fillister-head screws. 1,470,386; Oct. 9.

Miller, Henry G., Shafter, and M. M. Selzer, Oakland, Calif. Auto hitching post. 1,470,198; Oct. 9.

Miller, Robert N., Altoona, Pa. Jack. 1,470,180; Oct. 9.

Miller, Russell F., Akron, Ohio. Tire tread. Des. 63,122; Oct. 9.

Miller Saw Trimmer Company. (See Kirkland, Carroll M., assignor.)

Miller, William, Manchester, England. Skirt marker. 1,470,538; Oct. 9.

Millers Falls Company. (See Ryther, Henry A., assignor.)

Mintz, Julius, New York, N. Y. Shifter-clamping device. 1,470,181; Oct. 9.

Misiak, Wlodzimierz, New York, N. Y. Dumb-waiter signal. 1,470,466; Oct. 9.

Mitchell, George L. (See Glaudel, George, assignor.)

Mocine, Harry F., et al, trustees. (See Heslewood, W. R., and Mocine, assignors.)

Mocine, Harry F. (See Heslewood, W. R., and Mocine.)

Modigliani, Gino, assignor to Ing. Camillo Olivetti & C., Ivrea, Italy. Magneto-electric machine. 1,470,092; Oct. 9.

Modigliani, Gino, assignor to Ing. Camillo Olivetti & C., Ivrea, Italy. Magneto-electric machine. 1,470,093; Oct. 9.

Mohlman, George F., assignor of one-half to E. H. Molstad, Edmonton, Alberta, Canada. Frying and roasting pan cover. 1,470,281; Oct. 9.

Moloney, Peter J., and D. M. Findlay, assignors to the Governors of the University of Toronto, Toronto, Ontario, Canada. Preparing an extract, obtainable from the mammalian pancreas or from the related glands of fishes, useful in the treatment of diabetes mellitus. 1,470,024; Oct. 9.

Molstad, Edward H. (See Mohlman, George F., assignor.)

Moneuse, Alphonse F., New Rochelle, N. Y. Water heater. 1,469,803; Oct. 9.

Montegut, Sylvie, Paris, France. Carton. Des. 63,123; Oct. 9.

Moore, Lonnie M., assignor of one-half to C. H. Jackson, Hopkinsville, Ky. Combined curtain rod and shade bracket. 1,470,578; Oct. 9.

Morgan & Wright. (See Coe, John P., assignor.)

Morgan, Jesse A., San Diego, Calif. Vehicle sign. 1,470,387; Oct. 9.

Morrison, John A., Spokane, Wash. Exit light. 1,469,946; Oct. 9.

Morsdoff, Richard, West Hoboken, N. J. Cutting tool. 1,469,945; Oct. 9.

Moyer, Fredellia H., Johnstown, Pa. Demountable rim for vehicle wheels. 1,470,240; Oct. 9.

Mudd, Rolla E., Chicago, Ill. Liquid-reserve device. 1,469,947; Oct. 9.

Muehlbaecher, Edward, Los Angeles, Calif. Finishing art goods. 1,470,182; Oct. 9.

Mull, Edgar P., Toledo, Ohio, assignor to The Allen Filter Company, Toledo, Ohio. Water cooler. 1,470,094; Oct. 9.

Murphy, David S., Fort Wayne, Ind. Heating apparatus. 1,470,241; Oct. 9.

Murray, Roland J., Fredericton, New Brunswick, Canada. Rim tool. 1,470,095; Oct. 9.

Musselman, Joseph F., Bronxville, assignor to Anti-Corrosion Engineering Company, New York, N. Y. Liquid-treating system. 1,469,804; Oct. 9.

Musselman, Joseph F., Bronxville, assignor to Anti-Corrosion Engineering Company, New York, N. Y. Heat exchanger. 1,469,805; Oct. 9.

Myers, James L. (See Johnson, C. W., and Myers.)

Myers, John F., Detroit, Mich. Piston packing ring. 1,470,096; Oct. 9.

Nabors, William C., Mansfield, La. Tractor trailer. 1,470,328; Oct. 9.

National Valve & Manufacturing Company. (See Gerber, Dwight, assignor.)

Neff, August E., assignor to Phoenix Trimming Company, Chicago, Ill. Fringe for rugs and the like and making the same. 1,470,097; Oct. 9.

Nelson, Victor E., Strathmore, Mich. Packing ring. 1,470,585; Oct. 9.

Newman, George W., Chicago, Ill., assignor to Wilson Jones Loose Leaf Company. Producing loose-leaf-binders covers. 1,470,282; Oct. 9.

Nicholas, Oley G., Los Angeles, Calif. Concrete-building form. 1,470,467; Oct. 9.

Northrop, Jonas, Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Picker-stick check for looms. 1,470,539; Oct. 9.

Noville, Carl E., New York, N. Y. Apparatus for simulating moving pictures. 1,470,468; Oct. 9.

Nybakken, Ingebret, Minot, N. Dak. Oil can. 1,470,469; Oct. 9.

Obergfell, Herbert F. (See Ray, A. J., and Obergfell.)

O'Brien, William C., Baltimore, Md. Take-up for flatiron conductors. 1,470,183; Oct. 9.

Offield, James R., trustee. (See Ruby, George H. A., assignor.)

Ogden, Ralph E., Mountainville, N. Y., assignor to The Orsbee Company, Inc. Bolt anchor. 1,469,950; Oct. 9.

Ohio State Stove & Mfg. Co., The. (See Packer, M. L., and Messick, assignors.)

Ohl, Michael C., Denver, Colo. Traffic signal for automobiles. 1,469,806; Oct. 9.

Opitz, John L., Clarinda, Iowa. Rear-axle extension device for tractors. 1,470,283; Oct. 9.

Orr, James W., Kansas City, Mo. Emergency brake for motor vehicles. 1,470,098; Oct. 9.

Orsbee Company, The. (See Ogden, Ralph E., assignor.)

Osbourn, Millard P., Philadelphia, Pa. Pump. 1,470,099; Oct. 9.

Osgood, Louis A., Dayton, and E. E. Wolf, Springfield, assignors to International Scale Company, Dayton, Ohio. Counting device for scales. 1,470,025; Oct. 9.

Ostenberg, Zeno, assignor to The Caltex Company, San Jose, Calif. Coating machine. 1,470,540; Oct. 9.

Overton, Robert M., Waterloo, Iowa. Clothes-drying device. 1,470,242; Oct. 9.

Owen, James E., Edgeley, N. Dak., assignor of one-third to L. C. Devner and one-third to J. M. Silberstein, St. Paul, Minn. Wrench. 1,470,026; Oct. 9.

Owen, William W., Oak Park, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. 1,469,847; Oct. 9.

Pacheco, Joseph, Somerville, Mass. Musical-instrument tone amplifier. 1,469,948; Oct. 9.

Packer, Mortimer L., Columbus, Ohio, and T. B. Messick, Indianapolis, Ind., assignors to The Ohio State Stove & Mfg. Co., Columbus, Ohio. Heater. Des. 63,120; Oct. 9.

Palmer, Harry B., Morristown, N. J. Method and apparatus for absorbing radium emanation. 1,470,027; Oct. 9.

Palmeter, John R., Jamestown, N. Y. Wrench. 1,470,184; Oct. 9.

Panico, Francesco, Brooklyn, N. Y. Overhead piano cabinet. 1,470,243; Oct. 9.

Pansch, Herbert H. (See Sorensen, C. V., and Pansch.)

Paragon Can & Cap Company. (See Clark, Robert G., assignor.)

Pardey, Frank B., Warren, R. I. Anchor. 1,470,185; Oct. 9.

Parker, Calvin S., London, Ontario, Canada. Ditching apparatus. 1,470,028; Oct. 9.

Parker, Henry M., New Orleans, La. Well-screen washer. 1,469,949; Oct. 9.

Pas, Arie J., Jeannette, Pa. Scale guard and marker. 1,470,470; Oct. 9.

Pass & Seymour, Inc. (See Thompson, Don N., assignor.)

Pease, F. B., Company. (See Contant, William A., assignor.)

Pedersen, John D., Jackson, Wyo. Firearm. 1,470,029; Oct. 9.

Pemberton, Edward L., New York, N. Y., assignor to The Frog Switch & Manufacturing Company, Carlisle, Pa. Dipper tooth. 1,469,808; Oct. 9.

Peters, Frederick, Newark, and W. Thiedge, Elizabeth, N. J. Clasp. 1,470,471; Oct. 9.

Peterson, Christen J., Oak Park, Ill. Mat marking. 1,470,186; Oct. 9.

Pettis, Clifton D., New York, N. Y. Brake shoe. 1,470,472; Oct. 9.

Pettis, Clifton D., New York, N. Y. Brake shoe. 1,470,473; Oct. 9.

Pettis, Clifton D., New York, N. Y. Back for brake shoes. 1,470,474; Oct. 9.

Pettis, Clifton D., New York, N. Y. Brake shoe. 1,470,475; Oct. 9.

Pettis, Clifton D., New York, N. Y. Brake shoe. 1,470,476; Oct. 9.

Pettis, Clifton D., New York, N. Y. Brake shoe. 1,470,477; Oct. 9.

Pettis, Clifton D., New York, N. Y. Brake shoe. 1,470,478; Oct. 9.

Pettis, Clifton D., New York, N. Y. Brake shoe. 1,470,479; Oct. 9.

Pettis, Clifton D., New York, N. Y. Brake shoe. 1,470,480; Oct. 9.

Pfeiffer, Jacob. (See Rohdiek, John, assignor.)

Pfous, Frank, assignor to The H. D. Beach Company, Coschocton, Ohio. Rocking safety-match holder. Des. 63,121; Oct. 9.

Phillips, James E., New York, N. Y. Dumb-waiter lock. 1,470,541; Oct. 9.

Phoenix Trimming Company. (See Neff, August E., assignor.)

Piper, Herbert H., Jackson, Mo. Dust shield and collector for automobiles. 1,470,244; Oct. 9.

Pitou, Eugene, New York, N. Y. Window-washing apparatus. 1,470,388; Oct. 9.

Pittsburgh Lamp, Brass & Glass Company. (See Steffen, Adolf, assignor.)

Poling, May E., Phoenix, Ariz. Fireplace front. 1,470,542; Oct. 9.

Pooler, Thomas E., Pueblo, Colo. Digger. 1,470,284; Oct. 9.

Popps, George, Massena, N. Y. Hook. 1,470,481; Oct. 9.

Porter, Will R., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Tool handle. 1,470,100; Oct. 9.

Potter Drug & Chemical Corporation. (See Simpson, Louis H., assignor.)

Prat, Georges J., Paris, France. Induced and suction draft device. 1,470,187; Oct. 9.

Price, Joseph W., jr. (See Light, R. A., and Price.)

Priebe, Herman C., Blue Island, Ill. Friction draft gear. 1,470,285; Oct. 9.

Priebe, Herman C., Blue Island, Ill. Draft gear. 1,470,286; Oct. 9.

Priebe, Herman C., Blue Island, Ill. Draft gear. 1,470,287; Oct. 9.

Priebe, Herman C., Blue Island, Ill. Draft gear. 1,470,288; Oct. 9.

Pritchard, Alexander, Evergreen, N. Y. Horseshoe attachment. 1,470,101; Oct. 9.

Pryde, David E., Hoquium, Wash. Photographic washing tank. 1,470,188; Oct. 9.

Pym, Charles F., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 1,469,848; Oct. 9.

Rachard, Gommaire, New York, N. Y. Twin-head boring bar. 1,470,289; Oct. 9.

Rahm, Fred, Louisville, Ky. Valve. 1,470,102; Oct. 9.

Raiche, Denis M. (See Caron, T. E., and Raiche.)

Raiche, Vilmarie, St. Felix de Kingsey, Quebec, Canada. Nest attachment. 1,470,103; Oct. 9.

Ramsey, Ralph H., Ardmore, Okla. Well-drilling rig. 1,470,329; Oct. 9.

Ratcliffe, Thomas, Wagoner, Okla. Fishing tool for oil wells. 1,470,482; Oct. 9.

Rathsburg, Hans, Furth, Germany. Priming composition and producing the same. 1,470,104; Oct. 9.

Ray, Arthur J., Chicago, and H. F. Obergfell, Austin, assignors to Automatic Electric Company, Chicago, Ill. Automatic telephone system. 1,469,809; Oct. 9.

Bay, Eugene J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiving machine. 1,469,849; Oct. 9.
Recker, Adolph C., Oakville, assignor to Chase Companies Inc., Waterbury, Conn. Insulated suspension stem for electric-lighting fixtures. 1,470,189; Oct. 9.
Redden, Eugene E., Springfield, Mass. Tire. 1,470,105; Oct. 9.
Redfern, Alfred E. (See Redfern, Winifred V. and A. E.)
Redfern, Winifred V. and A. E., Victoria, British Columbia, Canada. Line-space and carriage-return lever and pad for typewriters. 1,470,190; Oct. 9.
Reid, William, Newark, N. J. Ship-propulsion apparatus. 1,470,191; Oct. 9.
Reiling, August W., Fort Wayne, Ind. Safe. 1,469,810; Oct. 9.
Reilly, Francis B., Regina, Saskatchewan, Canada. Building construction. 1,469,955; Oct. 9.
Reinel, Martin, et al., executors. (See Hellenthal, Karl.)
Reilstab, Ludwig, Zeist, Netherlands, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Radio pilot-cable system. 1,470,389; Oct. 9.
Rennerfelt, Ivar, Djursholm, Sweden. Electrically melting metals and in an electric furnace. 1,469,817; Oct. 9.
Ricardo, Harry R., London, England. Fuel-admission device for internal-combustion engines. 1,469,956; Oct. 9.
Rich, Charles H., Woolrich, Pa. Fire-fighting tool. 1,469,957; Oct. 9.
Richards, Alfred E. (See Ricks, F., and Richards.)
Richardson, Rodney G., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. 1,469,807; Oct. 9.
Richman, Charles S., and E. O. Fechner, San Francisco, Calif. Turbine-flue cleaner. 1,470,219; Oct. 9.
Richter, George A., assignor to Brown Company, Berlin, N. H. Apparatus for and method of recovering waste gases. 1,469,958; Oct. 9.
Richter, George A., and G. E. Wightman, assignors to Brown Company, Berlin, N. H. Cooling and absorbing system for sulphur dioxide. 1,469,959; Oct. 9.
Richter, George A., and D. H. McMurtrie, assignors to Brown Company, Berlin, N. H. Treating black liquor produced in the manufacture of sulfate pulp. 1,469,960; Oct. 9.
Rick, Paul E., et al. (See Duffy, Harry E., assignor.)
Ricker, Floyd H., Los Angeles, Calif. Brake for self-propelling vehicles. 1,470,192; Oct. 9.
Ricks, Fred, and A. E. Richards, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Skiving machine. 1,469,850; Oct. 9.
Riesner, Frank, Oriska, N. Dak. Reverse-valve mechanism. 1,470,483; Oct. 9.
Roa, William J., St. Louis, Mo., assignor to American Car and Foundry Company, New York, N. Y. General-service railway car. 1,470,390; Oct. 9.
Roberts, George S., Bend, Oreg. Valve-spring-compressing machine. 1,470,543; Oct. 9.
Robertson, John A., assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture-film reel. 1,469,818; Oct. 9.
Robinson, Dean Kees, Baltimore, Md. Pivot lathe for watchmakers. 1,470,544; Oct. 9.
Robinson, Glenn P., Philadelphia, Pa. Roller-setting apparatus for printing presses. 1,470,194; Oct. 9.
Robinson, Herman P., Bristol, Tenn. Steam chest and balance slide valve therefor. 1,470,193; Oct. 9.
Rockwell, Edward A., Kew Gardens, N. Y., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Pressure-feed system for internal-combustion engines. 1,470,484; Oct. 9.
Roessler & Hasslacher Chemical Company, The. (See Liebknecht, Otto, assignor.)
Rohdiek, John, assignor to J. Pfeiffer, New York, N. Y. Container. 1,470,579; Oct. 9.
Rolaff, Walter G. E., Belleville, Ill. Rotary compressor. 1,470,030; Oct. 9.
Rood, Edward J., Webster City, Iowa. Feeding device. 1,469,961; Oct. 9.
Root, Chapman J. (See Miller, Edward, assignor.)
Rose, William H., Jersey City, N. J. Container. 1,470,031; Oct. 9.
Rose, William H., Jersey City, N. J. Container. 1,470,032; Oct. 9.
Rosenberg, Jules H. (See Hafer, M. L., and Rosenberg.)
Rosenfeld, Louis, Baltimore, Md. Measuring and dispensing apparatus. 1,470,330; Oct. 9.
Rossignol, Aaron T., Washington, D. C., assignor, by mesne assignments, to J. Page Laughlin Holdings Company, Huntington, Pa. Reamer. 1,470,545; Oct. 9.
Roth, Edward W., Hartford, Conn. Laundry drier. 1,469,962; Oct. 9.
Roy, Lloyd V. (See Saunders, W. M., and Roy.)
Royal Typewriter Company Inc. (See Hess, Edward B., assignor.)
Ruby, George H. A., Grand Rapids, Mich., assignor to J. R. Offield, trustee, Chicago, Ill. Plaster-block-making machine. 1,469,819; Oct. 9.
Ruby, George H. A., Fort Dodge, Iowa, assignor to J. R. Offield, trustee, Chicago, Ill. Plaster-block machine. 1,469,820; Oct. 9
Ruggles, Guy H. (See Askin, T. B. H., and Ruggles.)
Ruhmann, Jacob M., San Antonio, Tex. Hose coupling. 1,470,196; Oct 9.
Russ, Otto C. (See Lance, Ernst G., assignor.)
Russell Electric Company. (See Russell, T. C., and Langos, assignors.)
Russell, Thomas C., and O. A. Langos, assignors to Russell Electric Company, Chicago, Ill. Wire-bending machine. 1,470,106; Oct. 9.
Russell, Zachary E., Sauk Rapids, Minn. Advertising-card holder. 1,470,486; Oct. 9.
Ruthven, Alfred L., Buffalo, assignor to Simplex Train Control Co. Inc., Rochester, N. Y. Combination automatic and manually-operable air brake, power control, and alarm system. 1,470,107; Oct. 9.
Ruthven, Alfred L., assignor to Simplex Train Control Company, Inc., Rochester, N. Y. Simplex train control. 1,470,108; Oct. 9.
Ruthven, Alfred L., assignor to Simplex Train Control Company, Inc., Rochester, N. Y. Electromagnetic train control. 1,470,109; Oct. 9.
Ruthven, Alfred L., Rochester, N. Y. Insulated rail joint. 1,470,110; Oct. 9.
Ryan, John J., Hopkins, Minn. Coaster wagon. 1,469,821; Oct. 9.
Ryan, Mathew F., Florence, Mass. Sand-filter valve. 1,470,290; Oct. 9.
Ryther, Henry A., Montague, assignor to Millers Falls Company, Millers Falls, Mass. Chuck. 1,470,197; Oct. 9.
S. S. White Dental Manufacturing Company, The. (See Porter, Will R., assignor.)
Saart Brothers Company. (See Veillette, Alfred, assignor.)
Sacter, Harold. (See Stone, N. P., and Saeter.)
Sanchez, Leo C., Cumanayagua, Cuba. Bookstand attachment for beds. 1,470,487; Oct. 9.
Sanford, Hugh W., Knoxville, Tenn. Railway car. 1,470,391; Oct. 9.
Sanitary Novelties Company. (See Llewellyn, George E., assignor.)
Sartakoff, Jack D., New York, N. Y. Water-feeding apparatus for storage batteries. 1,469,963; Oct. 9.
Saul, John, Jersey City, N. J. Roof edging. 1,470,331; Oct. 9.
Saunders, Wendell M., Reading, and L. V. Roy, Beverly, Mass. Fruit-jar sealing-ring opener. 1,470,488; Oct. 9.
Sauzedde, Claude, Detroit, Mich. Wire wheel construction. 1,469,822; Oct. 9.
Sawdon, Joseph, Quincy, Ill. Duplex envelope. 1,470,291; Oct. 9.
Schaefer, Ferdinand A., Raspeburg, Md. Resilient wheel. 1,470,118; Oct. 9.
Schaefer, Frederic, Pittsburgh, Pa. Connecting bar. 1,470,119; Oct. 9.
Schaefer, Frederic, Pittsburgh, Pa. Connecting rod. 1,470,120; Oct. 9.
Schaefer, Frederic, Pittsburgh, Pa. Railway-brake hanger. 1,470,121; Oct. 9.
Schanze, Gustavus A. (See Jencick, Stephen, assignor.)
Schenck, Charles, assignor to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. 1,469,964; Oct. 9.
Schenck, Pierce D., Dayton, Ohio., assignor to The Duriron Company Inc. Radiator. 1,470,033; Oct. 9.
Scheunert, Ewald, Silver Creek, Wis. Silo elevator. 1,470,292; Oct. 9.
Schilling, Harry A., New York, N. Y. Pocket medicine receptacle. 1,470,547; Oct. 9.
Schmeiske, William F., Binghamton, N. Y. Flower holder. 1,469,823; Oct. 9.
Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Turbine. 1,469,965; Oct. 9.
Schmitt, George P., Oakland, Calif. Gas-heated radiator. 1,470,293; Oct. 9.
Schrader's, A., Son, Incorporated. (See Bowden, Junius A., assignor.)
Schreier, Herman, Sheboygan, Wis. Ventilator hood for windows. 1,470,392; Oct. 9.
Schuchardt, Rudolph F., Chicago, Ill., assignor to General Electric Company. Meter. Re15,697; Oct. 9.
Schuh, John J., Altoona, Pa. Ladder clamp. 1,470,489; Oct. 9.
Schuler, Edward, Springfield, Ill. Paper-hanger's sectional plank. 1,470,122; Oct. 9.
Schulte, Frank W., Clarksburg, W. Va. Power trip. 1,470,332; Oct. 9.
Schupp, Arthur A., assignor to Wilcox Motor & Manufacturing Co., Saginaw, Mich. Making poppet valves. 1,470,034; Oct. 9.
Schwartz, Nathan, Newark, N. J. Producing knit fabrics. 1,470,490; Oct. 9.
Schweinert, Maximilian C., West Hoboken, N. J. Tire valve. 1,469,966; Oct. 9.
Scudder, Frederick J., Long Island, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,470,035; Oct. 9.
Scully, James and W. B. McCoy, Sullivan, Ind. Attachment for hood clamps of automobiles. 1,469,851; Oct. 9.
Sears, Roebuck & Co. (See Baker, Floyd, assignor.)
Sears, Roebuck and Co. (See Hoffman, Rudolph, assignor.)
Sedvick, John, Seattle, Wash. Scaffold hanger. 1,469,967; Oct. 9.

Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Preparing alkali cellulose. 1,469,824; Oct. 9.
Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether composition. 1,469,825; Oct. 9.
Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether composition. 1,469,826; Oct. 9.
Sell, Emanuel W., Cleveland, Ohio. Nut lock. 1,470,294; Oct. 9.
Selzer, Max M. (See Miller, H. G., and Selzer.)
Shapiro & Aronson, Inc. (See Klein, Max, assignor.)
Sheer, Henry M., Quincy, Ill. Brooder. 1,470,491; Oct. 9.
Sheiden, Charles W., Diagonal, Iowa. Hog ring. 1,470,295; Oct. 9.
Sherman, Frank C., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-print-washing machine. 1,470,586; Oct. 9.
Shilling, Lorenzo D., Kalispell, Mont. Blow-out boot for pneumatic tires. 1,470,546; Oct. 9.
Shirk, Fremont W. (See Shirk, Peter R., and F. W.)
Shirk, Peter R. and F. W., Ephrata, Pa. Cutter. 1,470,492; Oct. 9.
Show, John D., New York, N. Y. Snubber. 1,470,493; Oct. 9.
Siemens & Halske Aktiengesellschaft. (See Kaminski, Paul, assignor.)
Siemens & Halske, Aktiengesellschaft. (See Reilstab, Ludwig, assignor.)
Sievert, Christ, Calio, N. Dak. Quack-grass digger. 1,470,393; Oct. 9.
Signode System, Inc. (See Treat, Sidney W., assignor.)
Silberstein, J. M., et al. (See Owen, James E., assignor.)
Silvestri, Giulio, Rodaun, near Vienna, Austria. Connection for connecting rods of reciprocatory engines acting on a common crank. 1,469,827; Oct. 9.
Simmons Company. (See Gall, J. F., and Busch, assignors.)
Simmons Company. (See Kusterle, Frank, assignor.)
Simplex Train Control Company. (See Ruthven, Alfred L., assignor.)
Simpson, Louis H., assignor to Potter Drug & Chemical Corporation, Malden, Mass. Machine for cutting soap or other plastic material. 1,469,852; Oct. 9.
Slater, Albert G., Miles City, Mont. Direction indicator. 1,470,494; Oct. 9.
Slider, George, Baltimore, Md. Cylinder washing machine. 1,470,245; Oct. 9.
Small, Adina, New York, N. Y. Cooking utensil. 1,470,199; Oct. 9.
Smallwood, Alfred, London, England. Conveying apparatus. 1,470,394; Oct. 9.
Smith, A. O., Corporation. (See Gagne, Gideon R., assignor.)
Smith, Abraham L., assignor of one-half to O. M. Smith, New York, N. Y. Catamenial-sack supporter. 1,470,395; Oct. 9.
Smith, Asher R., Laredo, Tex. Garden-hose support. 1,470,123; Oct. 9.
Smith, Edward M., Los Angeles, Calif. Sand wheel for oil wells. 1,469,828; Oct. 9.
Smith, Harry B., Brooklyn, N. Y. Paper-box construction. 1,470,396; Oct. 9.
Smith, Harry B., Brooklyn, N. Y. Paper-box construction. 1,470,397; Oct. 9.
Smith, Harry B., Brooklyn, N. Y. Semiloose-wrapped box. 1,470,398; Oct. 9.
Smith, Orilla M. (See Smith, Abraham L., assignor.)
Smith, Reuben S., Milwaukee, Wis., assignor, by mesne assignments, to First Wisconsin Trust Company, trustee. Flexible die for bending thin metal plates in the direction of their width. 1,470,399; Oct. 9.
Smith, William, and P. J. Spillane, Houston, Pa. Tongs. 1,470,400; Oct. 9.
Snow Manufacturing Company. (See Livingston, Frank S., assignor.)
Snyder, Augustus E., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Package and method of packing fragile article. 1,470,200; Oct. 9.
Solar-Sturges Mfg. Co. (See Gogny, Henry R., assignor.)
Solar-Sturges Mfg. Co. (See Walker, James, assignor.)
Soliday, Harry J., St. Louis, Mo. Heel pad. 1,469,968; Oct. 9.
Somerville, George, Denver, Colo. Foot scraper for automobiles. Des. 63,124; Oct. 9.
Somes, Walter F., Jamaica Plain, Mass. Packing for turbine shafts and the like. 1,470,587; Oct. 9.
Sorensen, Chris V., and H. H. Pansch, Racine, Wis. Brick silo. 1,470,401; Oct. 9.
Sosnoskey, Stanley, Phoenixville, Pa. Switchman's rod. 1,470,495; Oct. 9.
Southern Textile Machinery Company. (See Arnold, Satterlee T., assignor.)
Sparks, Fred E., Akron, Ohio. Burglar alarm. 1,469,969; Oct. 9.
Sparks, Hamilton B., Terre Haute, Ind. Stovepipe anchor, flue thimble, and flue stopper. 1,469,970; Oct. 9.
Specht, H. Mortimer, Pelham, N. Y. Vehicle wheel. 1,470,333; Oct. 9.
Spillane, Patrick J. (See Smith, W., and Spillane.)
Spohrer, Gregory J., East Orange, N. J. Electric motor-driven compressor. 1,470,548; Oct. 9.
Sprackien, Paul H., Oakland, Calif. Compensating hinge joint for artificial limbs. 1,470,201; Oct. 9.
Stanton, Norman C. (See Cushman, J. E., and Stanton.)
Stedman, John F., Tigard, Oreg. Tool-supporting stand. 1,470,296; Oct. 9.
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Diaphragm for elastic-fluid turbines and making same. 1,470,497; Oct. 9.
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid-turbine rotor and making same. 1,470,498; Oct. 9.
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. 1,470,499; Oct. 9.
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. 1,470,500; Oct. 9.
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Making blade rings for elastic-fluid turbines. 1,470,501; Oct. 9.
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Making blade rings for elastic-fluid turbines. 1,470,502; Oct. 9.
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Making blade rings. 1,470,503; Oct. 9.
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Bucket wheel and making same. 1,470,504; Oct. 9.
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. 1,470,505; Oct. 9.
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Manufacturing turbine elements. 1,470,506; Oct. 9.
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Making rotor elements for elastic-fluid turbines. 1,470,507; Oct. 9.
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Manufacturing turbine elements. 1,470,508; Oct. 9.
Steffen, Adolf, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Lamp standard. Des. 63,125; Oct. 9.
Stein, Isaac and S., Revere, Mass. Heel lining for boots and shoes. 1,469,853; Oct. 9.
Stein, Samuel. (See Stein, Isaac and S.)
Steinmeyer, Hermann, New York, N. Y. Pocket file. case 1,470,549; Oct. 9.
Stensgaard, Conrad P. and R. L., Pomona, Calif. Fruit carrier. 1,470,334; Oct. 9.
Stensgaard, Robert L. (See Stensgaard, Conrad P. and R. L.)
Stephens, Dana M., assignor to Janet Garment Company, Charlotte, N. C. Producing fullness in the seat of underwear. 1,470,580; Oct. 9.
Stephens, Samuel, and Wickersham Quoin Company. (See Stephens, Samuel, assignor.)
Stephens, Samuel, Somerville, assignor to Samuel Stephens and Wickersham Quoin Company, Boston, Mass. Printer's quoin. 1,470,297; Oct. 9.
Sternheimer, Nathan, Richmond, Va. Envelope. 1,470,335; Oct. 9.
Stevens, Alton E., Providence, R. I. Selector rack for automatic telephone systems. 1,470,202; Oct. 9.
Stewart-Warner Speedometer Corporation. (See Rockwell, Edward A., assignor.)
Stone, Ernest V., Taft, Calif. Vehicle wheel. 1,470,496; Oct. 9.
Stone, Nathan P., and H. Saeter, Fosston, Minn. Fruit-jar holder. 1,470,203; Oct. 9.
Stoner, Jack M., assignor of one-half to T. K. Stoner, Chicago, Ill. Shock absorber for vehicles. 1,470,036; Oct. 9.
Stoney, John T. and R. E., Cleveland, Ohio. Molding machine. 1,470,402; Oct. 9.
Stoney, Raymond E. (See Stoney, John T. and R. E.)
Stoner, Thomas K. (See Stoner, Jack M., assignor.)
Straight, Halver R., Adel, Iowa. Building construction. 1,470,298; Oct. 9.
Stransky, Leo G., Pukwana, S. Dak. Combined pressure cap and gauge device. 1,470,509; Oct. 9.
Stricker, William, Kansas City, Mo. Inhaler. 1,470,124; Oct. 9.
Stuan, Richard P., Lincoln, Ill. Trip for grain binders. 1,470,299; Oct. 9.
Stuart, George J., Pittsburgh, Pa. Compound regulating valve. 1,469,854; Oct. 9.
Sullivan Machinery Company. (See Halleck, Frank A., assignor.)
Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
Summers, Bertrand S., Port Huron, Mich. Manufacturing flax fiber for spinning. 1,469,971; Oct. 9.
Swantees, Samuel F., St. Louis, Mo. Ribbed underflap for undergarments. 1,469,972; Oct. 9.
Swarts, Ira T., assignor to Swartz Electric Company, Indianapolis, Ind. Fuel-supplying means. 1,470,204; Oct. 9.
Swartz Electric Company. (See Swarts, Ira T., assignor.)
Swift & Company. (See Lamb, Harry, assignor.)
Szarvasy, Emerich, Budapest, Hungary. Graphitizing preformed carbon bodies. 1,470,300; Oct. 9.

Tabb, Warner T., assignor to Duplex Engine Governor Company, Inc., Brooklyn, N. Y. Valve. 1,470,037; Oct. 9.
Tafarella, Mary. (See Weyandt, J. M., and Tafarella.)
Taft-Pierce Manufacturing Company, The. (See Martell, Albert A., assignor.)
Talbert, Charles S., deceased, Long Beach, Calif.; L. R. Talbert, executor. Game. 1,470,125; Oct. 9.
Talbert, L. R., executor. (See Talbert, Charles S.)
Talbert, Lee R., Los Angeles, Calif. Key lock. 1,470,126; Oct. 9.
Tappen, Arthur G., and A. V. Wallentine, Madison, Wis. Shock absorber. 1,470,301; Oct. 9.
Tardie, Alfred F., Riverside, R. I. Carbon-monoxide burner. 1,470,336; Oct. 9.
Taylor, Edwin, Edwardsville, Kans. Belt connector. 1,470,510; Oct. 9.
Taylor, Horace F., jr., Buffalo, N. Y. Vehicle signal. 1,470,127; Oct. 9.
Fechner, Ernest O. (See Richman, C. S., and Fechner.)
Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Reversible lock. 1,469,829; Oct. 9.
Tessier, Julien, assignor to Eastman Kodak Company, Rochester, N. Y. Operating handle for motion picture cameras. 1,469,830; Oct. 9.
Texas Company, The. (See Hawkins, Clement C., assignor.)
Thalken, Frank R., Coney Island, Brooklyn, N. Y. Portable jumping tree. 1,470,403; Oct. 9.
Thiedge, William. (See Peters, F., and Thiedge.)
Thomas, William L., New York, N. Y., assignor to Kinesthetic Process Co., Inc. Balanced golf ball. 1,470,302; Oct. 9.
Thompson, Clarence L., Elmhurst, assignor to L. B. Koch, New York, N. Y. Cinematographic projector. 1,470,404; Oct. 9.
Thompson, Don N., Syracuse, assignor to Pass & Seymour, Inc., Solvay, N. Y. Electric fitting. 1,470,128; Oct. 9.
Thompson, Louis N., Moore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Turbine blading. 1,469,973; Oct. 9.
Thompson Electric Welding Company. (See Gravell, James H., assignor.)
Thordarson, Chester H., Chicago, Ill. Terminal connector for electrical windings. 1,470,337; Oct. 9.
Tichenor, Elmore D., Detroit, Mich. Toothbrush shield and dentifrice holder. 1,470,129; Oct. 9.
Tomasek, Frank, Chicago, Ill. Automobile bumper. 1,469,855; Oct. 9.
Toothaker, Victor, East Aurora, N. Y. Lamp stand. Des. 63,126; Oct. 9.
Topfner, Peter, Detroit, Mich. Trousers protector. 1,470,511; Oct. 9.
Traufler, Wallace A., Toledo, Ohio. Belt shifter. 1,469,856; Oct. 9.
Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,470,582; Oct. 9.
Treat, Sidney W., assignor to Signode System, Inc., Chicago, Ill. Box-strapping device. 1,469,857; Oct. 9.
Tromba, Marius E., Brooklyn, N. Y. Condensing lens. 1,470,512; Oct. 9.
Trotter, George C., assignor to Lake Laboratories Company, Elkhart Lake, Wis. Phonograph. 1,470,303; Oct. 9.
Truck Tractor & Manufacturing Company. (See Jacobs, I. M., and Cramer, assignors.)
Tryer, L. M. (See Woolen, Alfred, assignor.)
Tucker, Charles N., New Bedford, assignor to Hopedale Manufacturing Company, Milford, Mass. Picker-stick check motion. 1,470,513; Oct. 9.
Tuckey, Harry A., San Francisco, Calif. Electrical contact device. 1,470,304; Oct. 9.
Ubl, William, assignor of one-half to H. B. Wardin, Rochester, N. Y. Fountain pen. 1,470,405; Oct. 9.
Underwood Typewriter Company. (See Helmond, William F., assignor.)
Union Switch & Signal Company. (See McCann, R. A., and Lewis, assignors.)
United Shoe Machinery Corporation. (See Christy, Frank W., assignor.)
United Shoe Machinery Corporation. (See Gorman, Henry B., assignor.)
United Shoe Machinery Corporation. (See Hunt, Chester, assignor.)
United Shoe Machinery Corporation. (See Knowlton, Cutler D., assignor.)
United Shoe Machinery Corporation. (See Pym, Charles F., assignor.)
United Shoe Machinery Corporation. (See Ray, Eugene J., assignor.)
United Shoe Machinery. (See Ricks, F., and Richards, assignors.)
United States Metallic Packing Company, The. (See Light, R. A., and Price, assignors.)
Universal Conveyor Co. (See Landis, Irwin D., assignor.)
Universal Oil Products Company. (See Dubbs, Carbon P., assignor.)
Universal Oil Products Company. (See Egloff, G., and Benner, assignors.)
Vagge, Mario J., Nashua, N. H. Valve-spring-lifting tool. 1,469,974; Oct. 9.
Vance, Carl D., and F. G. Bowman, Dayton, Ohio. Door construction. 1,470,038; Oct. 9.
Van Heusen, John M., Boston, Mass. Garment. 1,469,858; Oct. 9.
Van Heusen Products, Inc. (See Bacon, R. F., Kidwell, and Bascom, assignors.)
Van Slyke, Joseph. (See Van Slyke, Moses, assignor.)
Van Slyke, Moses, deceased; W. L. Asher, administrator, assignor of one-half to J. Van Slyke, Clarksville, Iowa. Burial vault. 1,470,130; Oct. 9.
Veillette, Alfred, assignor to Saart Brothers Company, Attleboro, Mass. Buckle. 1,469,859; Oct. 9.
Victor Shoe Machinery Co. of 1919. (See Johnson, Lawrence E., assignor.)
Voges, Ernest, San Antonio, Tex. Razor-blade sharpener. 1,470,514; Oct. 9.
Vogt, Carl, Denver, Colo. Ash bucket. 1,470,205; Oct. 9.
Voss, Charles H. (See Britzwein, Christian F., assignor.)
Wadsworth, Howard L. (See Bryson, Charles W., assignor.)
Wagenhals, William G., Saginaw, Mich. Drum for washing machines. 1,469,975; Oct. 9.
Wagnon, William P., Portland Oreg., and H. J. Bomar, Tacoma, Wash. File-sharpening machine. 1,470,206; Oct. 9.
Wagoner, Charles B., Rochester, N. Y. Chimney cap. 1,470,305; Oct. 9.
Wait, John C., administrator. (See Lowenstein, Fritz.)
Walker, James, Columbus, Ohio, assignor to Solar-Sturges Mfg. Co. Wastecan. 1,470,207; Oct. 9.
Wallace, Joseph. (See Malewig, P., and Wallace.)
Wallace, Thomas P., Memphis, Tenn. Treating cotton-seed in handling, cleaning, and delinting. 1,470,339; Oct. 9.
Wallach, Roger N., New York, N. Y., assignor to The Grasselli Chemical Company. Making 2-3 oxy-naphthoic acid. 1,470,039; Oct. 9.
Wallentine, Axel V. (Tappen, A. G., and Wallentine.)
Walper, Curry O., assignor of one-third to F. A. Maslen and one-third to B. E. Clark, Detroit, Mich. Work-holding stand. 1,469,860; Oct. 9.
Walsh, Joseph H., Reading, Mass., assignor to Johns-Manville Incorporated, New York, N. Y. Art of and apparatus for drying materials. 1,470,306; Oct. 9
Walsh, Joseph P., Vancouver, British Columbia, Canada. Dry kiln. 1,469,976; Oct. 9.
Walter, A. G., et al. (See Jaeger, Carl, assignor.)
Wardell, Daniel. (See Beardsley, G. A., and Wardell.)
Wardell, Robert D., Detroit, Mich. Holder for lightning units. 1,470,208; Oct. 9.
Wardin, Halford B. (See Uhl, William, assignor.)
Watkins, Frederick B., Los Angeles, Calif. Signaling device. 1,470,406; Oct. 9.
Watson, Charles P., New York, N. Y. Method and moving-picture film for analyzing motion. 1,470,407; Oct. 9.
Wattellier, René C., Samois-sur-Seine, France. Fuel economizer for explosion engines. 1,469,861; Oct. 9.
Watts, Ruffey E., assignor of one-half to Geo. H. Hubbell, Trenton, Mo. Floor jack. 1,470,515; Oct. 9.
Way, John H., Philadelphia, Pa. Riveting apparatus. 1,469,864; Oct. 9.
Weaver, Clayton B., deceased; P. Weaver, executrix, Philadelphia, Pa. Rivet. 1,469,977; Oct. 9.
Weaver, Phebe, executrix. (See Weaver, Clayton B.)
Webb, William R., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. 1,469,862; Oct. 9.
Webb, William R., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. 1,469,863; Oct. 9.
Webster, Arvin C. (See Gardham, George A., assignor.)
Weller, Frederick H., Cincinnati, Ohio. Line fastener. 1,470,408; Oct. 9.
Welte-Mignon Corporation. (See Bockisch, Heinrich, assignor.)
Wesolowski, Jerry E., Buffalo, N. Y. Automatic signal for railway crossings. 1,470,338; Oct. 9.
West Gravitiser Corporation, The. (See Anderson, Gideon, assignor.)
Western Electric Company. (See Mathes, Robert C., assignor.)
Western Electric Company. (See Scudder, Frederick J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Allen, Robert C., assignor.)
Westinghouse Electric and Manufacturing Company. (See Gilson, Christian, assignor.)
Westinghouse Electric and Manufacturing Company. (See Herr, Herbert T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kasley, Alexander T., assignor.)
Westinghouse Electric and Manufacturing Company. (See Schmidt, Henry F., assignor.)
Westinghouse Electric and Manufacturing Company. (See Thompson, Louis N., assignor.)
Westinghouse Lamp Company. (See Snyder, Augustus E., assignor.)
Weyandt, Jennie M., and M. Tafarella, Cleveland, Ohio. Artificial plant. 1,470,516; Oct. 9.
Wheat, Edwin B. (See Kreutz, Vernon C., assignor.)
White, H. C., Company. (See Bried, Julien A., assignor.)

White, Noah R., Delta, Colo. Pump coupling. 1,470,209; Oct. 9.
White, Norman H., Brookline, Mass., assignor to Auto Vacuum Freezer Company, Inc., New York, N. Y. Cover attachment. 1,470,210; Oct. 9.
White, Union B., and H. N. Lawrie, Washington, D. C. Margin indicator. 1,469,978; Oct. 9.
Whitehead, Leo S., Akron, Ohio. Attachable grip handle. 1,470,040; Oct. 9.
Whiting & Davis Company. (See Lynds, Fred H., assignor.)
Wightman, Gordon E. (See Richter, G. A., and Wightman.)
Wilco Machine Company, The. (See Wilms, Hermann, assignor.)
Wilcox, Merrill M., Saginaw, Mich. Tappet. 1,470,409; Oct. 9.
Wilcox, Merrill M., Saginaw, Mich. Tappet. 1,470,410; Oct. 9.
Wilcox, Merrill M., assignor to Wilcox Motor Parts & Manufacturing Co., Saginaw, Mich. Tappet. 1,470,411; Oct. 9.
Wilcox, Merrill M., Saginaw, Mich. Tappet. 1,470,412; Oct. 9.
Wilcox, Merrill M., Saginaw, Mich. Making valves. 1,470,413; Oct. 9.
Wilcox, Merrill M., assignor to Wilcox Motor Parts & Manufacturing Co., Saginaw, Mich. Making poppet valves. 1,470,041; Oct. 9.
Wilcox Motor & Manufacturing Co. (See Schupp, Arthur A., assignor.)
Wilcox Motor Parts & Manufacturing Co. (See Wilcox, Merrill M., assignor.)
Wilder, Ralph E., Bethlehem, Pa., assignor, by mesne assignments, to Bethlehem Steel Company. Truck frame. Re15,696; Oct. 9.
Wilicuts, Dee B. (See Hole, Morris C., assignor.)
Willen, Joseph, Chicago, Ill. Belt. 1,469,865; Oct. 9.
Williams, George, Santa Ana, Calif. Timer. 1,470,230; Oct. 9.
Williams, William E., Holywell, Wales. Mold for casting brake blocks and the like. 1,470,307; Oct. 9.
Willis, Leland, and O. F. Woodworth, Grenloch, N. J., assignors to Bateman and Companies, Incorporated, Wilmington, Del. Spray bar. 1,470,246; Oct. 9.
Willoughby, Victor R., Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Cam sheave for brakes. 1,470,414; Oct. 9.
Willoughby, Victor R., Ridgewood, N. J., assignor to American and Foundry Company, New York, N. Y. Car construction. 1,470,415; Oct. 9.
Wills, Ernest W., Great Kills, N. Y. Container. 1,470,248; Oct. 9.
Wilms, Hermann, assignor to The Wilco Machine Company, St. Louis, Mo. Nut-cracking machine. 1,470,247; Oct. 9.
Wilms, Lee W. V., Chicago, Ill. Shiftable closing means for automobiles. 1,470,308; Oct. 9.
Wilson, Allen P., assignor to Boston Pencil Pointer Company, Waltham, Mass. Cutter for pencil sharpener. 1,470,416; Oct. 9.
Wilson Jones Loose Leaf Covers. (See Newman, George W., assignor.)
Wilson, Otto E., Peru, Ind. Wheel. 1,470,517; Oct. 9.
Wilson, William G., Bridgeport, Conn. Catch for doors and the like. 1,469,979; Oct. 9.
Wimmer, John G., Lockport, Ill. Furnace. 1,470,309; Oct. 9.
Winchell, Ernest E., Seattle, Wash. Wheel and gear remover. 1,470,310; Oct. 9.
Wing, Paul. (See Dumars, Gerald, assignor.)
Winter, Arthur A. (See Kutsche, A. C., and Winter.)
Wintle, Henry, Jackman, Me. Shears or scissors. 1,470,417; Oct. 9.
Wirth, John, New York, N. Y. Shampooing and hair-washing apparatus. 1,470,311; Oct. 9.
Witten, William S., Chicago, Ill. Gate latch. 1,470,249; Oct. 9
Witten, William S., Chicago, Ill. Lock and latch. 1,470,250; Oct. 9.
Wolf, Elmer E. (See Osgood, L. A., and Wolf.)
Wolf, Elmer E., Springfield, assignor to International Scale Company, Dayton, Ohio. Disk bearing for scales and other mechanisms. 1,470,042; Oct. 9.
Wolff, John. (See Jacobus, D. S., and Wolff.)
Woodrow, Oliver B., Newton, Iowa. Releasing device for wringers. 1,470,312; Oct. 9.
Woodward, Jesse W., and F. E. Lewis, Shreveport, La. Bottle cooler. 1,469,866; Oct. 9.
Woodworth, Olin F. (See Willis, L., and Woodworth.)
Woolen, Alfred, assignor of one-half to L. M. Tryer, Okmulgee, Okla. Piston-ring squeezer. 1,470,313; Oct. 9.
Worthington Pump and Machinery Corporation. (See Fleming, Willa M., assignor.)
Wright, David Z., Childress, Tex. Cotton-cleaning machine. 1,470,314; Oct. 9.
Yarnell, Harold A., Escondido, Calif. Battery separator. 1,470,518; Oct. 9.
Yent, Albert G., Jeffersonville, Ind., assignor to American Car and Foundry Company, New York, N. Y. Hydrocarbon burner. 1,470,418; Oct. 9
Youlen, Elsie A., Los Angeles, Calif. Shopping bag. Des. 63,127; Oct. 9.
Young, Carl, Chicago, Ill. Wheel. 1,469,867; Oct. 9.
Zukoski, Edmund L., St. Louis, Mo. Detachable lifter. 1,469,868; Oct. 9.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 9TH DAY OF OCTOBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Accelerator. T. M. Abraham. 1,470,419; Oct. 9.
Acid, Making 2-3 oxy-naphthoic. R. N. Wallach. 1,470,039; Oct. 9.
Aeroplane. L. Ferrari. 1,470,275; Oct. 9.
Aeroplane wings or planes and the like, Manufacture of a coating for cloths for. K. Kawashima. 1,469,839; Oct. 9.
Air brake, power control and alarm system, Combination automatic and manually-operable. A. L. Ruthven. 1,470,107; Oct. 9.
Air cooler. G. R. Evans. 1,470,156; Oct. 9.
Air drill, Compressed-. G. P. Gomez. 1,470,074; Oct. 9.
Air power, Ocean compressed-. C. N. Hare. 1,470,361; Oct. 9.
Aircraft. C. J. Lake. 1,469,796; Oct. 9.
Aircraft, Movable hangar for large. I. I. Eremeeff. 1,470,557; Oct. 9.
Aircraft propeller. C. S. Hall. 1,470,163; Oct. 9.
Alarm: *See*—
Burglar alarm.
Alkali cellulose, Preparing. P. C. Seel. 1,469,824; Oct. 9.
Alphalt, Molding. C. C. Hawkins. 1,470,008; Oct. 9.
Amplifier. A. Benoit, J. L. Mathieu, and H. H. Duchesne. 1,469,876; Oct. 9.
Anchor. F. B. Pardey. 1,470,185; Oct. 9.
Animal-releasing device. M. Jagielski. 1,469,791; Oct. 9.
Animal trap. W. La Valley. 1,470,453; Oct. 9.
Antiskid chain. C. F. Fisher. 1,470,069; Oct. 9.
Apron. R. Achilli. 1,470,341; Oct. 9.
Art goods, Finishing. E. Muehlbaecher. 1,470,182; Oct. 9.
Ash bucket. C. Vogt. 1,470,205; Oct. 9.
Auto theft signal. E. E. Chapman. 1,469,772; Oct. 9.
Auomatic regulator. A. B. Loftus. 1,470,277; Oct. 9.
Automobile accelerator. E. W. Baxter. 1,470,211; Oct. 9.
Automobile bumper. F. Tomasek. 1,469,855; Oct. 9.
Automobile bumpers, Attaching means for. F. Gahm. 1,470,003; Oct. 9.
Automobile curtains, Curtain holder for. H. Landeweer and J. F. Haas. 1,470,454; Oct. 9.
Automobile drive gear. W. T. Beddingfield. 1,470,317; Oct. 9.
Automobile elevating jack. H. E. Duffy. 1,470,581; Oct. 9.
Automobile foot scraper. G. Somerville. Des. 63,124; Oct. 9.
Automobile running board. G. R. Gagne. 1,469,785; Oct. 9.
Automobile signal lock. A. M. Haight. 1,470,443; Oct. 9.
Automobile tops, Loop-strap-securing device for. J. Ledwinka. 1,469,929; Oct. 9.
Automobile traffic signal. M. C. Ohl. 1,469,806; Oct. 9.
Automobiles, Attachment for hood clamps of. J. Scully and W. B. McCoy. 1,469,851; Oct. 9.
Automobiles, Direction signal for. J. F. Lynch. 1,470,236; Oct. 9.
Automobiles, Dust shield and collector for. H. H. Piper. 1,470,244; Oct. 9.
Automobiles, Lubricating system for. E. H. Haney. 1,470,165; Oct. 9.
Automobiles, Removable body for. S. Hunter. 1,470,324; Oct. 9.
Automobiles, Resilient guard for. W. G. Cox. 1,469,999; Oct. 9.
Automobiles, Shiftable closing means for. L. W. V. Wilms. 1,470,308; Oct. 9.
Bait-casting device. J. D. Brakers. 1,469,883; Oct. 9.
Baking pan. L. H. Debs. 1,470,274; Oct. 9.
Baking pans and the like, Clamp for. L. H. Debs. 1,470,273; Oct. 9.
Ball, Balanced golf. W. I. Thomas. 1,470,302; Oct. 9.
Ball, Playing. H. R. Hart. 1,469,907; Oct. 9.
Ballast-dressing machine. S. F. Clapp. 1,470,058; Oct. 9.
Bar: *See*—
Boring bar. Spray bar.
Connecting bar. Tracker bar.
Grinding bar.
Batteries, Water-feeding apparatus for storage. J. D. Sartakoff. 1,469,963; Oct. 9.
Battery connection. A. Fretschel. 1,470,433; Oct. 9.
Battery lamp and means for operating same, Storage-. H. M. Essington. 1,469,783; Oct. 9.
Battery separator. H. A. Yarnell. 1,470,518; Oct. 9.
Bead filiers, Manufacture of. M. A. Marquette. 1,470,465; Oct. 9.
Bearing for scales and other mechanisms, Disk. E. E. Wolf. 1,470,042; Oct. 9.
Bearings, Means for preventing displacement of rollers in roller. P. A. E. Armstrong. 1,469,991; Oct. 9.
Beds, Bookstand attachment for. L. C. Sanches. 1,470,487; Oct. 9.
Bedstead corner lock. J. F. Gail and C. H. Busch. 1,470,072; Oct. 9.
Beehive hood and condition indicator. J. B. Cottam. 1,470,112; Oct. 9.
Bell and buzzer, Combined. J. W. Cox. 1,470,062; Oct. 9.
Belt. J. Willen. 1,469,865; Oct. 9.
Belt connector. E. Taylor. 1,470,510; Oct. 9.
Belt-fastening device. I. M. Jacobs and W. Cramer. 1,469,924; Oct. 9.
Belt shifter. W. A. Traufler. 1,469,856; Oct. 9.
Bench: *See*—
Wire-drawing bench.
Binder covers, Producing loose-leaf. G. W. Newman. 1,470,282; Oct. 9.
Binder, Wood. A. P. Lloyd. 1,469,843; Oct. 9.
Binding reel, Folding. F. E. Coulter. 1,470,061; Oct. 9.
Blading. C. Gilson. 1,469,902; Oct. 9.
Board: *See*—
Automobile running board. Ironing board.
Bobbin, spool, and the like, Metallic. G. A. McIntosh. 1,469,930; Oct. 9.
Boiler: *See*—
Steam boiler.
Bolt anchor. R. E. Ogden. 1,469,950; Oct. 9.
Bolt machines, Blank holder and ejecting device for. S. B. Clay. 1,470,256; Oct. 9.
Book, Coupon. G. F. Jones and J. H. Allison. 1,470,012; Oct. 9.
Book-making machine. E. E. Frey. 1,470,070; Oct. 9.
Bookrest. W. L. Blair. 1,470,052; Oct. 9.
Boring bar, Twin-head. G. Rachard. 1,470,289; Oct. 9.
Bottle-capping machine. R. G. Clark. 1,470,348–9; Oct. 9.
Bottle cooler. J. W. Woodward and F. E. Lewis. 1,469,866; Oct. 9.
Bottle holder, Collapsible. G. E. Llewellyn. 1,470,383; Oct. 9.
Box: *See*—
Folding box. Wrapped box.
Box construction and manufacturing, Reenforced and safety. B. H. Davis. 1,470,063; Oct. 9.
Box-strapping device. S. W. Treat. 1,469,857; Oct. 9.
Bracket: *See*—
Swivel bracket.
Bracket. L. C. Harrington. 1,470,261; Oct. 9.
Brake rigging, Clasp-. W. S. Baird. 1,470,343; Oct. 9.
Brake shoe. C. D. Pettis. 1,470,472–3; Oct. 9.
Brake shoe. C. D. Pettis. 1,470,475–80; Oct. 9.
Brake-shoe back. C. D. Pettis. 1,470,474; Oct. 9.
Brakes, Cam sheave for. V. R. Willoughby. 1,470,414; Oct. 9.
Bridge, Bascule. T. E. Brown and T. E. Brown, jr. 1,470,140; Oct. 9.
Brooder. H. M. Sheer. 1,470,491; Oct. 9.
Bucket, Pivotal dump. I. D. Landis. 1,470,086; Oct. 9.
Bucket wheel and making same. C. Steenstrup. 1,470,504; Oct. 9.
Buckle. A. Veillette. 1,469,859; Oct. 9.
Bucksaw frame. V. C. Anderson. 1,470,372; Oct. 9.
Building construction. F. B. Reilly. 1,469,955; Oct. 9.
Building construction. H. R. Straight. 1,470,298; Oct. 9.
Building materials, Manufacturing artificial. A. Kleinlogel. 1,470,378; Oct. 9.
Burglar alarm. M. Macura. 1,469,943; Oct. 9.
Burglar alarm. F. E. Sparks. 1,469,969; Oct. 9.
Burner: *See*—
Carbon-monoxide burner. Oil burner.
Hydrocarbon burner.
Bushings, Installing. C. W. Johnson and J. L. Myers. 1,469,793; Oct. 9.
Button structure. L. Arntz. 1,470,342; Oct. 9.
Calendar, Perpetual. L. H. Downer. 1,470,065; Oct. 9.
Cameras, Operating handle for motion-picture. J. Tessier. 1,469,830; Oct. 9.

Camper's kit. L. O. Gaspar. 1,470,439; Oct. 9.
Can: *See*—
Oil can.
Can-soldering machine. L. J. Charland. 1,470,146; Oct. 9.
Car construction. V. R. Willoughby. 1,470,415; Oct. 9.
Car-door-locking mechanism. J. H. Davis. 1,470,149; Oct. 9.
Car, General-service railway. W. J. Roa. 1,470,390; Oct. 9.
Car, Railway. H. W. Sanford. 1,470,391; Oct. 9.
Cars, Auxiliary closure for doorways of freight. W. W. Booth. 1,469,914; Oct. 9.
Carbon bodies, Graphitizing preformed. E. Szarvasy. 1,470,300; Oct. 9.
Carbon from metal pipes, Removing. C. J. Greenstreet. 1,470,359; Oct. 9.
Carbon-monoxide burner. A. F. Tardie. 1,470,336; Oct. 9.
Card-filing device, Record-. A. M. Martin. 1,469,798; Oct. 9.
Card holder, Advertising-. Z. E. Russell. 1,470,486; Oct. 9.
Carriage, Collapsible baby. P. H. Dennen. 1,470,151; Oct. 9.
Carrier: *See*—
Fruit carrier. Unit carrier.
Monorail carrier.
Carrier-transmission-routing arrangement. H. A. Affel. 1,469,869; Oct. 9.
Carton. S. Montegut. Des. 63,123; Oct. 9.
Case: *See*—
File case.
Casing head. C. S. Clarke. 1,469,894; Oct. 9.
Casting brake blocks and the like, Mold for. W. E. Williams. 1,470,307; Oct. 9.
Catalyst and making same. H. G. Byers. 1,470,552; Oct. 9.
Catamenial-sack supporter. A. L. Smith. 1,470,395; Oct. 9.
Cellulose-ether composition. I. C. Matthews. 1,469,816; Oct. 9.
Cellulose-ether composition. P. C. Seel. 1,469,825–6; Oct. 9.
Cellulose-ether solvent and composition. S. J. Carroll. 1,469,812–13; Oct. 9.
Cellulose-ether solvent and composition. W. R. Webb. 1,469,862–3; Oct. 9.
Cellulosic material, Bleaching. E. Ebie and G. A. Richter. 1,470,556; Oct. 9.
Chain hook, Eyeglass-. C. L. Hogue. 1,470,264; Oct. 9.
Chain-link construction. S. J. Benner and C. V. J. Diehl. 1,470,318; Oct. 9.
Chain-link welding. J. H. Gravell. 1,470,160; Oct. 9.
Chair. J. W. Lang. 1,470,455; Oct. 9.
Chest and container. D. Holland. 1,470,166; Oct. 9.
Chimney cap. C. B. Wagoner. 1,470,305; Oct. 9.
Chuck. O. Garrison. 1,470,158; Oct. 9.
Chuck. B. M. W. Hanson. 1,469,833; Oct. 9.
Chuck. H. A. Ryther. 1,470,197; Oct. 9.
Cigar or cigarette lighter. A. Barna, jr. 1,469,912; Oct. 9.
Cinematographic projector. C. L. Thompson. 1,470,404; Oct. 9.
Circuit-breaker system, Automatic reclosing. O. C. Traver. 1,470,582; Oct. 9.
Circuit-controlling means. R. P. Hall. 1,469,905; Oct. 9.
Clamp: *See*—
Coupling clamp. Rail clamp.
Identification clamp. Spring clamp.
Ladder clamp.
Clamp. G. Glaudel. 1,470,115; Oct. 9.
Clasp. F. Peters and W. Thiedge. 1,470,471; Oct. 9.
Cleaner: *See*—
Turbine-flue cleaner.
Clock, Electric alarm. E. N. Burleigh. 1,469,887; Oct. 9.
Clothes-drying device. R. M. Overton. 1,470,242; Oct. 9.
Clutch mechanism. B. Cooper. 1,470,321; Oct. 9.
Clutch mechanism. J. Lauth. 1,470,268; Oct. 9.
Coating machine. Z. Ostenberg. 1,470,540; Oct. 9.
Coin holder, Pocket. H. M. Greenbaum. 1,470,357–8; Oct. 9.
Combination tool. C. B. Jacoby. 1,469,838; Oct. 9.
Compressing machine, Valve-spring-. G. S. Roberts. 1,470,543; Oct. 9.
Compressor, Electric motor-driven. G. J. Spohrer. 1,470,548; Oct. 9.
Compressor, Rotary. W. G. E. Rolaff. 1,470,030; Oct. 9.
Concrete building form. O. G. Nicholas. 1,470,467; Oct. 9.
Concrete-working machine. W. J. Fitzgerald. 1,470,002; Oct. 9.
Confections, Making frozen. H. B. Burt. 1,470,524–5; Oct. 9.
Connecting bar. F. Schaefer. 1,470,119; Oct. 9.
Connecting rod. F. Schaefer. 1,470,120; Oct. 9.
Container. J. Rohdiek. 1,470,579; Oct. 9.
Container. W. H. Rose. 1,470,031–2; Oct. 9.
Container. E. W. Wills. 1,470,248; Oct. 9.
Container handle. E. A. Lange. 1,470,536; Oct. 9.
Containers, Combination. G. C. Kennedy. 1,469,938; Oct. 9.
Containers, Sealing closed. B. Heller. 1,469,923; Oct. 9.
Conveying apparatus. A. Smallwood. 1,470,394; Oct. 9.
Cooking utensil. A. Small. 1,470,199; Oct. 9.
Cooler: *See*—
Air cooler. Water cooler.
Bottle cooler.
Copying device. F. D. Atherton, jr. 1,470,134; Oct. 9.
Corn, cutting and shocking machine. T. F. Kuhn. 1,470,085; Oct. 9.
Corner fastening. F. Kusterle. 1,470,015; Oct. 9.
Cosmetic chest. H. Goodrich. Des. 63,119; Oct. 9.
Cotton-cleaning machine. D. Z. Wright. 1,470,314; Oct. 9.
Cottonseed in handling, cleaning, and delinting, Treating. T. P. Wallace. 1,470,339; Oct. 9.
Coupling: *See*—
Hose coupling. Pump coupling.
Coupling clamp. G. De Rouen. 1,470,485; Oct. 9.
Counter. A. A. Adams and F. A. Emery. 1,469,932; Oct. 9.
Cover attachment. N. H. White. 1,470,210; Oct. 9.
Cow-tail holder. W. M. Anderson. 1,470,046; Oct. 9.
Crosshead guides, Oil cup for. H. C. Manchester. 1,470,176; Oct. 9.
Current relay, Alternating-. W. D. Hailes. 1,470,566; Oct. 9.
Current transformer, Alternating-. J. R. Brueckner. 1,470,214; Oct. 9.
Curtain rod and shade bracket, Combined. L. M. Moore. 1,470,578; Oct. 9.
Cutter. P. R. and F. W. Shirk. 1,470,492; Oct. 9.
Cutting tool. R. Morsdoff. 1,469,845; Oct. 9.
Cuttings, Machine for planting. J. J. M. Elias. 1,470,067; Oct. 9.
Damper, Draft-controlling. J. Kosman. 1,470,326; Oct. 9.
Dampers, Means for operating. T. J. Curtis. 1,470,425; Oct. 9.
Dental chairs, Adjustable spotlight for. L. Lazar. 1,469,841; Oct. 9.
Dental chairs, Adjustable spotlight for. L. Lazar. 1,469,928; Oct. 9.
Dental handpiece cover, Sanitary. F. J. Gruss. 1,470,162; Oct. 9.
Dental root-canal point. L. O. Card. 1,469,992; Oct. 9.
Detachable lifter. E. L. Zukoski. 1,469,868; Oct. 9.
Dies for bending thin metal plates in the direction of their width, Flexible. R. S. Smith. 1,470,399; Oct. 9.
Digger: *See*—
Grass digger.
Digger. T. E. Pooler. 1,470,284; Oct. 9.
Dipper tooth. E. L. Pemberton. 1,469,808; Oct. 9.
Direction indicator. A. G. Slater. 1,470,494; Oct. 9.
Disintegrator. J. K. Blum. 1,469,877; Oct. 9.
Disk-wheel assembly. G. H. Forsyth. 1,470,222; Oct. 9.
Dispensing apparatus. W. P. Bott. 1,469,879; Oct. 9.
Dispensing device. C. M. Abbott. 1,470,131; Oct. 9.
Display device. C. Claus. 1,470,217; Oct. 9.
Display device. A. Dietsche, jr. 1,470,218; Oct. 9.
Display stand. F. W. Gibson. 1,470,159; Oct. 9.
Ditch-cutting machine. A. W. Fuller. 1,469,951; Oct. 9.
Ditching apparatus. C. S. Parker. 1,470,028; Oct. 9.
Door-controlling mechanism. P. D. Evans. 1,470,431; Oct. 9.
Door construction. C. D. Vance and F. G. Bowman. 1,470,038; Oct. 9.
Door-latching means A. Kassler. 1,470,370; Oct. 9.
Doors and the like, Catch for. W. G. Wilson. 1,469,979; Oct. 9.
Doors, Holder for swinging. A. W. McCleary. 1,469,800; Oct. 9.
Doubler. H. G. McIlvried. 1,469,846; Oct. 9.
Draft device, Induced and suction. G. J. Prat. 1,470,187; Oct. 9.
Draft regulator, Automatic. G. H. Huston. 1,470,325; Oct. 9.
Drain, Bell-trap floor. H. H. Hysko. 1,469,790; Oct. 9.
Drier: *See*—
Laundry drier.
Drill: *See*—
Air drill. Portable drill.
Drying materials, Art of and apparatus for. J. H. Walsh. 1,470,306; Oct. 9.
Dumb-waiter lock. J. E. Phillips. 1,470,541; Oct. 9.
Dumb-waiter signal. W. Misiak. 1,470,466; Oct. 9.
Dust-cap spring. J. A. Bowden. 1,469,880; Oct. 9.
Dust caps, Spring insert for. J. A. Bowden. 1,469,882; Oct. 9.
Dust caps, Spring means for. J. A. Bowden. 1,469,881; Oct. 9.
Dyestuff prepared from orthoxylylaldehyde. A. E. Craver. 1,470,554–5; Oct. 9.
Edge setter and burnisher. L. J. Grace. 1,470,076; Oct. 9.
Educational and amusement device. J. and J. Donnianni. 1,469,919; Oct. 9.
Egg beater. C. E. Kail. 1,470,169–70; Oct. 9.
Egg crate. C. N. Bruhn. 1,470,215; Oct. 9.
Eggs, Apparatus for storing. S. C. Cross. 1,469,897; Oct. 9.
Electric fitting. D. N. Thompson. 1,470,128; Oct. 9.
Electric furnace. M. de Roiboul. 1,470,195; Oct. 9.
Electric irons, Switch for. H. Benvie. 1,470,523; Oct. 9.
Electric machine, Magneto-. G. Modigliani. 1,470,092–3; Oct. 9.

Electric machines. Commutation of dynamo-. J. W. Dorsey. 1,470,428; Oct. 9.
Electric sockets, Push plug for. J. Blackburn. 1,469,913; Oct. 9.
Electric switch. W. D. Collins and G. W. H. Allen. 1,470,059; Oct. 9.
Electrical contact device. H. A. Tuckey. 1,470,304; Oct. 9.
Electrical windings, Terminal connector for. C. H. Thordarson. 1,470,337; Oct. 9.
Electromagnet cores, Tool for assembling spool heads on. E. Bergman. 1,470,212; Oct. 9.
Elevator: *See*—
Silo elevator.
Elevator interlock. T. A. Melville. 1,470,279; Oct. 9.
Engine. W. A. Holdinghausen. 1,469,836; Oct. 9.
Engine. L. L. Maiden. 1,470,462; Oct. 9.
Engine-controlled clutch-releasing means. R. I. Belcia. 1,470,272; Oct. 9.
Engines acting on a common crank, Connection for connecting rods of reciprocatory. G. Silvestri. 1,469,827; Oct. 9.
Engines, Fuel admission device for internal-combustion. H. R. Ricardo. 1,469,956; Oct. 9.
Engines, Fuel economizer for explosion. R. C. Wattellier. 1,469,861; Oct. 9.
Engines, Method and means for starting combustion. J. Good. 1,469,903; Oct. 9.
Engines, Pressure-feed system for internal-combustion. E. A. Rockwell. 1,470,484; Oct. 9.
Engines, Starting device for internal-combustion. S. Jencick. 1,470,447; Oct. 9.
Envelope. N. Sternheimer. 1,470,335; Oct. 9.
Envelope, Duplex. J. Sawdon. 1,470,291; Oct. 9.
Envelope, Forwarding. A. B. Ashby. 1,470,051; Oct. 9.
Envelopes, Manifolding. J. H. Bonneville and H. S. Barnes. 1,469,878; Oct. 9.
Exit light. J. A. Morrison. 1,469,946; Oct. 9.
Extract obtainable from the mammalian pancreas or from the related glands in fishes, useful in the treatment of diabetes mellitus, and preparing it. F. G. Banting, C. H. Best, and J. B. Collip. 1,469,994; Oct. 9.
Extract obtainable from the mammalian pancreas or from the related glands of fishes, useful in the treatment of diabetes mellitus, Preparing an. P. J. Moloney and D. M. Findlay. 1,470,024; Oct. 9.
Fabric-treating machine. R. F. Bacon, C. H. Kidwell, and P. H. Bascom. 1,469,765; Oct. 9.
Fats, Apparatus for treating edible. J. T. Cox. 1,469,896; Oct. 9.
Feed mechanism. C. D. Knowlton. 1,469,840; Oct. 9.
Feeder for jointers, Automatic. E. D. Church. 1,469,995; Oct. 9.
Feeding device. E. J. Rood. 1,469,961; Oct. 9.
Felly and rim for vehicle wheels, Metallic. W. N. Booth. 1,469,769; Oct. 9.
Felly for vehicle wheels, Metallic. W. N. Booth. 1,469,768; Oct. 9.
Fibrous material, Composition for treating. W. C. Geer and J. B. Dickson. 1,470,073; Oct. 9.
File case, Pocket. H. Steinmeyer. 1,470,549; Oct. 9.
Filling apparatus. H. A. House, jr. 1,470,235; Oct. 9.
Filling machine. H. Lamb. 1,470,381; Oct. 9.
Film, Making composite. F. W. Lovejoy. 1,469,815; Oct. 9.
Filters, Drainage plate for. F. W. Manning. 1,470,463; Oct. 9.
Fire-extinguisher systems, Automatic attachment for. J. C. Meloon. 1,470,178; Oct. 9.
Fire-fighting tool. C. H. Rich. 1,469,957; Oct. 9.
Fire, Imitation. H. H. Berry. 1,470,253; Oct. 9.
Firearm. J. D. Pedersen. 1,470,029; Oct. 9.
Fireplace front. M. E. Poling. 1,470,542; Oct. 9.
Fishing-line float. C. F. Britzwein. 1,469,885; Oct. 9.
Fishing reel, Automatic. A. D. Maury. 1,469,845; Oct. 9.
Fishing tool, Sucker-rod overshot. S. A. Erwin. 1,470,114; Oct. 9.
Flagpole, Counterbalanced. L. P. Bolander. 1,470,320; Oct. 9.
Flasks, Sand ejector for. W. E. Burgess. 1,469,888; Oct. 9.
Flatiron conductors, Take-up for. W. C. O'Brien. 1,470,183; Oct. 9.
Flax fiber for spinning, Manufacturing. B. S. Summers. 1,469,971; Oct. 9.
Flexible bumper. W. G. Cox. 1,470,000; Oct. 9.
Floor jack. R. E. Watts. 1,470,515; Oct. 9.
Flower holder. W. F. Schmeiske. 1,469,823; Oct. 9.
Flushing apparatus. R. A. Brooks. 1,469,891; Oct. 9.
Flying machines, Wing for. V. Lougheed. 1,470,017; Oct. 9.
Folding box. W. D. Bryson. 1,470,141; Oct. 9.
Forging-machine device. F. A. Halleck. 1,470,444; Oct. 9.
Fork. L. W. Busch. 1,470,142; Oct. 9.
Frame: *See*—
Bucksaw frame. Truck frame.
Fruit carrier. C. P. and R. L. Stensgaard. 1,470,334; Oct. 9.
Fuel-supplying means. I. T. Swartz. 1,470,204; Oct. 9.
Fumigator. C. C. Anderson and F. Adams. 1,469,872; Oct. 9.
Furnace: *See*—
Electric furnace. Oil-burning furnace.
Furnace. J. G. Wimmer. 1,470,309; Oct. 9.
Fuse. J. C. Bogle. 1,469,767; Oct. 9.
Fuse. G. W. Goodridge. 1,470,440; Oct. 9.
Game. N. MacRae. 1,470,117; Oct. 9.
Game. C. S. Talbert. 1,470,125; Oct. 9.
Garment. J. M. Van Heusen. 1,469,858; Oct. 9.
Garment hanger. W. H. Lemke. 1,470,456; Oct. 9.
Gas and the like, Apparatus and process for condensing casing-head G. E. Gray. 1,470,116; Oct. 9.
Gas diaphragm. C. P. Dubbs. 1,470,352; Oct. 9.
Gases, Apparatus for and method of recovering waste. G. A. Richter. 1,469,958; Oct. 9.
Gasoline tanks, Combined cap and antisplash device for. J. Baudino. 1,470,136; Oct. 9.
Gate lock, Double-lever. F. S. Livingston. 1,470,270; Oct. 9.
Gauge: *See*—
Oil gauge. Snap gauge.
Gear, Draft. H. C. Priebe. 1,470,286–8; Oct. 9.
Gear, Friction draft. H. C. Priebe. 1,470,285; Oct. 9.
Gear-shaping machine with side-trimming attachment. E. W. Miller. 1,470,229; Oct. 9.
Glass-feeding mechanism. E. Miller. 1,470,023; Oct. 9.
Goods for shipment, Preparing. J. W. Leslie. 1,469,797; Oct. 9.
Grading machine. W. A. Contant. 1,470,060; Oct. 9.
Grain binders, Trip for. R. P. Stuan. 1,470,299; Oct. 9.
Granular material, Apparatus for classifying. M. Hokanson. 1,470,531; Oct. 9.
Grapple. E. Lafreniere. 1,470,327; Oct. 9.
Grass digger, Quack-. C. Sievert. 1,470,393; Oct. 9.
Gravity conveyer. C. E. Fuller. 1,470,558; Oct. 9.
Grinding bar. J. R. Halterman. 1,470,164; Oct. 9.
Grinding taps, Mechanism for. J. Bath. 1,469,985; Oct. 9.
Grip handle, Attachable. L. S. Whitehead. 1,470,040; Oct. 9.
Guns and the like, Teleadjuster for. P. Kaminski. 1,470,369; Oct. 9.
Hair-growth-removing implement for nostrils and ears. J. P. Carey. 1,470,527; Oct. 9.
Hammock. B. B. Englander. 1,469,782; Oct. 9.
Handle: *See*—
Container handle. Tool handle.
Grip handle.
Handle. B. A. Denton. 1,470,152; Oct. 9.
Handle. C. Gluckman. 1,470,355; Oct. 9.
Hanger: *See*—
Garment hanger. Scaffold hanger.
Railway-brake hanger. Trolley-wire hanger.
Heat exchanger. J. F. Musselman. 1,469,805; Oct. 9.
Heater: *See*—
Water heater.
Heater. M. L. Packer and T. B. Messick. Des. 63,120; Oct. 9.
Heating apparatus. G. E. Dix. 1,469,898; Oct. 9.
Heating apparatus. D. S. Murphy. 1,470,241; Oct. 9.
Heel lining for boots and shoes. I. and S. Stein. 1,469,853; Oct. 9.
Heel pad. H. J. Solliday. 1,469,968; Oct. 9.
Heel, Spring. J. Dutchak. 1,469,920; Oct. 9.
Heels, Making. C. Hunt. 1,469,835; Oct. 9.
Highway construction. H. M. Knight. 1,469,939; Oct. 9.
Hitching post, Auto. H. G. Miller and M. M. Selzer. 1,470,198; Oct. 9.
Hog ring. C. W. Shelden. 1,470,295; Oct. 9.
Hoist, Mechanical. T. Galloway. 1,469,900; Oct. 9.
Hook: *See*—
Chain hook.
Hook. G. Popps. 1,470,481; Oct. 9.
Horseshoe attachment. A. Pritchard. 1,470,101; Oct. 9.
Hose coupling. J. M. Ruhmann. 1,470,196; Oct. 9.
Hose supports, Garden-. A. R. Smith. 1,470,123; Oct. 9.
Hydrocarbon burner. A. G. Yent. 1,470,418; Oct. 9.
Identification clamp. H. V. McCulloch. 1,470,280; Oct. 9.
Index-card support. G. H. Dawson. 1,470,257; Oct. 9.
Indicator: *See*—
Direction indicator. Route indicator.
Margin indicator.
Inhaler. W. Stricker. 1,470,124; Oct. 9.
Insect catcher. C. Fowler. 1,470,435; Oct. 9.
Insecticide. W. S. Cox. 1,469,773; Oct. 9.
Insulated rail joint. A. L. Ruthven. 1,470,110; Oct. 9.
Insulated suspension stem for electric-lighting fixtures. A. C. Recker. 1,470,189; Oct. 9.
Insulated vessel, Heat-. V. S. Johnson. 1,470,366; Oct. 9.
Ironing board. J. L. Llale. 1,470,457; Oct. 9.
Ironing table. F. Baker. 1,470,252; Oct. 9.
Jack: *See*—
Automobile elevating jack. Pumping jack.
Floor jack.
Jack. R. N. Miller. 1,470,180; Oct. 9.
Jamb fastening. J. E. Ahlvin. 1,470,251; Oct. 9.
Jar. G. C. Aymar. Des. 63,117; Oct. 9.
Jar holder, Fruit-. N. P. Stone and H. Saeter. 1,470,203; Oct. 9.
Jar sealing-ring opener, Fruit-. W. M. Saunders and L. V. Roy. 1,470,488; Oct. 9.
Joint: *See*—
Insulated rail joint. Rail joint.

Jumping tree, Portable. F. R. Thalken. 1,470,403; Oct. 9.
Key lock. L. R. Talbert. 1,470,126; Oct. 9.
Kiln, Dry. J. P. Walsh. 1,469,976; Oct. 9.
Knife. W. Clawson. 1,470,147; Oct. 9.
Knife, Skinning. R. Blades. 1,470,255; Oct. 9.
Knit fabrics, Producing. N. Schwartz. 1,470,490; Oct. 9.
Ladder, Aerial extension. R. S. Bolger. 1,470,139; Oct. 9.
Ladder clamp. J. J. Schuh. 1,470,489; Oct. 9.
Lamp. J. H. Ballweg. 1,470,135; Oct. 9.
Lamp globe. C. Costanz. Des. 63,118; Oct. 9.
Lamp stand. V. Toothaker. Des. 63,126; Oct. 9.
Lamp standard. A. Steffen. Des. 63,125; Oct. 9.
Lamp, Spot and extension. E. G. K. Anderson. 1,469,981; Oct. 9.
Lantern. W. T. Evans. 1,470,432; Oct. 9.
Lasting machine. C. F. Pym. 1,469,848; Oct. 9.
Latch for doors of motor vehicles. E. B. Descombes. 1,470,001; Oct. 9.
Latch, Gate. W. S. Witten. 1,470,249; Oct. 9.
Latch, Vehicle door. I. H. Gordon and C. E. Miles. 1,470,075; Oct. 9.
Lathe dog. C. H. Bassett. 1,470,346; Oct. 9.
Lathe for watchmakers, Pivot. D. K. Robinson. 1,470,544; Oct. 9.
Laundry drier. E. W. Roth. 1,469,962; Oct. 9.
Leather or similar material, Decorating. F. A. Kolb. 1,470,535; Oct. 9.
Lens. J. W. Davison. 1,469,931; Oct. 9.
Lens, Condensing. M. E. Tromba. 1,470,512; Oct. 9.
Lens-grooving machine. G. Kirkegaard. 1,469,926; Oct. 9.
Lens, Unbreakable. P. Johnson and G. A. Gray. 1,470,448; Oct. 9.
Lifter: *See*—
Detachable lifter.
Light: *See*—
Exit light.
Lighting unit. M. Klein. 1,470,227; Oct. 9.
Lighting-unit holder. R. D. Wardell. 1,470,208; Oct. 9.
Limbs, Compensating hinge joint for artificial. P. H. Spracklen. 1,470,201; Oct. 9.
Line fastener. F. H. Weller. 1,470,408; Oct. 9.
Lineman's guard. H. B. Bush. 1,469,989; Oct. 9.
Liquid fuel, Means for vaporizing. J. M. Maclean. 1,470,461; Oct. 9.
Liquid-reserve device. R. E. Mudd. 1,469,947; Oct. 9.
Liquid sprayer. M. F. Biersdorf. 1,470,111; Oct. 9.
Liquid-treating system. J. F. Musselman. 1,469,804; Oct. 9.
Loading apparatus. J. M. Freeman. 1,470,221; Oct. 9.
Lock: *See*—
Automobile signal lock. Key lock.
Bedstead corner lock. Nut lock.
Dumb-waiter lock. Reversible lock.
Elevator interlock. Window lock.
Gate lock. Window-sash lock.
Lock and latch. W. S. Witten. 1,470,250; Oct. 9.
Lock for fillister-head screws. H. Miller. 1,470,386; Oct. 9.
Lock screw. A. Flentjen. 1,470,528; Oct. 9.
Locomotives, Booster motor for. H. L. Ingersoll. 1,470,082; Oct. 9.
Looms, Friction release for Axminster. L. B. Jenckes. 1,470,007; Oct. 9.
Looms, Picker-stick check for. J. Northrop. 1,470,539; Oct. 9.
Looms, Shuttle-guide block for narrow-ware. J. S. Mann. 1,469,844; Oct. 9.
Lubricator. W. E. Farley. 1,470,068; Oct. 9.
Mail-bag catcher and deliverer, Automatic. W. Davis. 1,470,427; Oct. 9.
Marrin indicator. U. B. White and H. N. Lawrie. 1,469,978; Oct. 9.
Mat marking. C. J. Peterson. 1,470,186; Oct. 9.
Match case and cigarette-paper holder, Combination. R. V. Draughon. 1,470,154; Oct. 9.
Match holder, Rocking safety-. F. Pfous. Des. 63,121; Oct. 9.
Mathematical apparatus. A. H. Kennedy. 1,469,954; Oct. 9.
Measuring and dispensing apparatus. L. Rosenfeld. 1,470,330; Oct. 9.
Measuring triangle. C. Hohmann. 1,470,530; Oct. 9.
Medicine receptacle, Pocket. H. A. Schilling. 1,470,547; Oct. 9.
Mesh fabric, Support for link-. F. H. Lynds. 1,470,019; Oct. 9.
Metal wheel. C. Schenck. 1,469,964; Oct. 9.
Metals and in an electric furnace, Electrically melting. L. Rennerfelt. 1,469,817; Oct. 9.
Meter. R. F. Schuchardt. Re15,697; Oct. 9.
Mill lining, Ball-. T. B. H. Askin and G. H. Ruggles. 1,470,420; Oct. 9.
Milling machines, Workholding attachment for. A. S. Holmes. 1,470,265; Oct. 9.
Mine squibs and detonators, Safety holder for. J. W. Davis. 1,470,150; Oct. 9.
Mining machine. G. R. Bennett. 1,470,590; Oct. 9.
Mining machine. M. P. Holmes. 1,470,570–3; Oct. 9.
Moisture to powdered materials, Method of and apparatus for adding. W. H. Carrier. 1,469,993; Oct. 9.
Molding machine. J. T. and R. E. Stoney. 1,470,402; Oct. 9.
Monorail system. F. R. Cornwall. 1,469,997; Oct. 9.
Monorail carrier. F. R. Cornwall. 1,469,998; Oct. 9.
Mop. W. and A. C. Kootz. 1,470,014; Oct. 9.
Mop material. H. I. Klawans. 1,469,940; Oct. 9.
Motor cycles, Reversing device for. S. L. Barlough. 1,469,984; Oct. 9.
Motor drives, Governor for electric. E. E. Mellenthin. 1,469,802; Oct. 9.
Musical instruments, Note sheet for automatic. H. Bockisch. 1,470,550; Oct. 9.
Musical-instrument tone amplifier. J. Pacheco. 1,469,948; Oct. 9.
Needle, Tufting. A. L. Hansen. 1,469,906; Oct. 9.
Nest attachment. V. Raiche. 1,470,103; Oct. 9.
Nipple, Adjustable flow. D. G. Lorraine. 1,470,460; Oct. 9.
Nonslipping device. R. S. Blair. 1,469,766; Oct. 9.
Nut-cracking machine. H. Wilms. 1,470,247; Oct. 9.
Nut lock. E. W. Sell. 1,470,294; Oct. 9.
Oil, Apparatus for treating. G. Egloff and H. P. Benner. 1,470,353; Oct. 9.
Oil burner. L. Kresser. 1,470,379; Oct. 9.
Oil-burning furnace. L. G. Bostedo. 1,469,770; Oct. 9.
Oil can. I. Nybakken. 1,470,469; Oct. 9.
Oil gauge. H. Hastings. 1,469,933; Oct. 9.
Ore concentration. A. L. Court. 1,470,350; Oct. 9.
Orthopedic table, Self-freeing. G. W. Hawley. 1,470,362; Oct. 9.
Overcoat. J. Kochanski. 1,470,449–50; Oct. 9.
Package and packing fragile articles. A. E. Snyder. 1,470,200; Oct. 9.
Packing for turbine shafts and the like. W. F. Somes. 1,470,587; Oct. 9.
Packing ring. V. E. Nelson. 1,470,585; Oct. 9.
Pad: *See*—
Heel pad.
Pan: *See*—
Baking pan.
Pan concentrator. F. E. Johnesse. 1,470,011; Oct. 9.
Pan cover, Frying and roasting. G. F. Mohlman. 1,470,281; Oct. 9.
Paper-box construction. H. B. Smith. 1,470,396–7; Oct. 9.
Paper drinking cup and making same. E. W. Labombarde. 1,470,172; Oct. 9.
Paper-feeding device for printing presses. C. M. Kirkland. 1,470,588; Oct. 9.
Paper-hanger's sectional plank. E. Schuler. 1,470,122; Oct. 9.
Pen, Fountain. J. Dutchak. 1,469,921; Oct. 9.
Pen, Fountain. W. Uhl. 1,470,405; Oct. 9.
Pencil, Lead. W. F. Haack. 1,469,786–7; Oct. 9.
Percolator, Automatic. V. C. Kreutz. 1,470,584; Oct. 9.
Phonograph. G. C. Trotter. 1,470,303; Oct. 9.
Phonograph-driving mechanism, Electrical. W. W. Dean. 1,469,780; Oct. 9.
Phonograph record and producing same, Laminated. V. H. Emerson. 1,469,781; Oct. 9.
Photographic-cut-film holder. W. F. Folmer. 1,469,814; Oct. 9.
Photographic-print-washing machine. F. C. Sherman. 1,470,586; Oct. 9.
Photographic washing tank. D. E. Pryde. 1,470,188; Oct. 9.
Photography, Color. J. G. Capstaff. 1,469,811; Oct. 9.
Piano cabinet, Overhead. F. Panico. 1,470,243; Oct. 9.
Pianos and the like, Transposer for automatic. R. Head. 1,470,364; Oct. 9.
Picker-stick check motion. C. N. Tucker. 1,470,513; Oct. 9.
Picture film for analyzing motion, Method and moving-. C. F. Watson. 1,470,407; Oct. 9.
Picture-film reel, Motion-. J. A. Robertson. 1,469,818; Oct. 9.
Pictures, Apparatus for simulating moving. C. E. Noville. 1,470,468; Oct. 9.
Pipe-lifting implement. J. Aumiller. 1,469,911; Oct. 9.
Pipe support and anchor. D. Gerber. 1,470,529; Oct. 9.
Pipe tongs. J. R. Gray. 1,470,161; Oct. 9.
Piston-packing ring. J. F. Myers. 1,470,096; Oct. 9.
Piston ring. M. A. Davis. 1,470,113; Oct. 9.
Piston ring. W. R. Heslewood and H. F. Mocine. 1,470,263; Oct. 9.
Piston-ring squeezer. A. Woolen. 1,470,313; Oct. 9.
Planers, Milling attachment for. J. Michelson. 1,470,091; Oct. 9.
Plant, Artificial. J. M. Weyandt and M. Tafarella. 1,470,516; Oct. 9.
Plaster and producing same, Hardened water-repellent gypsum. J. W. Emerson. 1,470,260; Oct. 9.
Plaster-block machine. G. H. A. Ruby. 1,469,820; Oct. 9.
Plaster-block-making machine. G. H. A. Ruby. 1,469,819; Oct. 9.
Platinum anode for production of persalts, Reenforced. O. Liebknecht. 1,470,577; Oct. 9.
Poke, Animal. G. H. Lockert. 1,470,458; Oct. 9.
Pole, Metal. M. Lachman. 1,470,174; Oct. 9.
Pole-raising apparatus. W. Kimberling. 1,470,377; Oct. 9.
Pontoon-supporting derrick. C. L. Lonsinger. 1,470,459; Oct. 9.

Portable drill. J. H. Buterbaugh. 1,470,143; Oct. 9.
Post: *See*—
Auto hitching post.
Post, Metal. A. D. Jones. 1,470,367; Oct. 9.
Postmarking and stamp-canceling machine. W. H. Bowes. 1,470,231; Oct. 9.
Potato-frying device. T. E. Combest. 1,470,521; Oct. 9.
Power trip. F. W. Schulte. 1,470,332; Oct. 9.
Pressure cap and gauge device, Combined. L. G. Stransky. 1,470,509; Oct. 9.
Pressure regulator. J. W. Allen. 1,469,871; Oct. 9.
Priming composition and producing the same. H. Rathsburg. 1,470,104; Oct. 9.
Printed sheets, Means for and method of applying anti-offset material to freshly-. H. M. Barber. 1,470,344–5; Oct. 9.
Printer's quoin. S. Stephens. 1,470,297; Oct. 9.
Printing presses, Roller-setting apparatus for. G. P. Robinson. 1,470,194; Oct. 9.
Pulp gaskets, Extracting water from. W. F. Butler. 1,470,216; Oct. 9.
Pulverizing machine. H. H. McNaughton. 1,470,177; Oct. 9.
Pump. W. M. Fleming. 1,470,220; Oct. 9.
Pump. S. E. Huntting. 1,470,081; Oct. 9.
Pump. M. P. Osbourn. 1,470,099; Oct. 9.
Pump, Centrifugal. J. K. McIntyre. 1,470,022; Oct. 9.
Pump coupling. N. R. White. 1,470,209; Oct. 9.
Pump, Double-acting reciprocating. H. E. Danstrup. 1,470,426; Oct. 9.
Pump, Force. E. J. Bloom. 1,470,347; Oct. 9.
Pumping jack. M. C. Hole. 1,470,080; Oct. 9.
Punching machines, Indicator for. W. W. Adams. 1,470,519; Oct. 9.
Pyjamas. J. F. Graham. 1,470,356; Oct. 9.
Radiant energy, Receiving system for. E. L. Chaffee. 1,469,889; Oct. 9.
Radio pilot-cable system. L. Rellstab. 1,470,389; Oct. 9.
Radiator. P. D. Schenck. 1,470,033; Oct. 9.
Radiator attachment. A. H. Burr. 1,469,916; Oct. 9.
Radiator, Gas-heated. G. P. Schmitt. 1,470,293; Oct. 9.
Radium emanation, Method and apparatus for absorbing. H. B. Palmer. 1,470,027; Oct. 9.
Raft, Log. G. G. and M. J. Davis. 1,470,064; Oct. 9.
Rail clamp. R. B. Butler. 1,470,055; Oct. 9.
Rail clamp. R. G. Manning. 1,470,090; Oct. 9.
Rail joint. E. Ianni. 1,470,167; Oct. 9.
Rail-joint-locking device. C. L. Callies. 1,470,056; Oct. 9.
Railway-brake hanger. F. Schaefer. 1,470,121; Oct. 9.
Railway-crossing signal. C. Adler, jr. 1,470,043; Oct. 9.
Railway crossings, Automatic signal for. J. E. Wesolowski. 1,470,338; Oct. 9.
Railway-switch operating means. C. J. Kelloway. 1,470,226; Oct. 9.
Railway-traffic-controlling apparatus. R. A. McCann and L. V. Lewis. 1,469,799; Oct. 9.
Railways, Fixed signal system for protecting danger points on. H. E. Hodgson. 1,470,009; Oct. 9.
Reamer. A. T. Rossignol. 1,470,545; Oct. 9.
Reamer, Floating. A. A. Martell. 1,470,020; Oct. 9.
Reaming device. T. P. Carroll and E. Graff. 1,470,144; Oct. 9.
Receptacle. R. Y. Barrows. 1,470,049; Oct. 9.
Receptacle, Self-closing. H. R. Gogay. 1,469,952; Oct. 9.
Receptacles, Forming. C. M. Mayo. 1,470,021; Oct. 9.
Recoil-controlling device. E. M. De Maine. 1,469,918; Oct. 9.
Recorder. J. W. Bryce and W. P. Anderson. 1,469,988; Oct. 9.
Reel: *See*—
Binding reel. Fishing reel.
Reeling device. R. Barrier. 1,470,373; Oct. 9.
Refractory metal product and making same. C. A. Laise. 1,470,175; Oct. 9.
Refrigerator, Mechanical. C. Jaeger. 1,470,574; Oct. 9.
Regulator: *See*—
Automatic regulator. Pressure regulator.
Draft regulator.
Rendering process. J. Lister. 1,470,228; Oct. 9.
Repeater system. R. C. Mathes. 1,470,238; Oct. 9.
Resilient wheel. F. A. Schaefer. 1,470,118; Oct. 9.
Reversible lock. E. L. Teich. 1,469,829; Oct. 9.
Rim, Demountable. J. O. Hinerman. 1,470,569; Oct. 9.
Rim tool. R. J. Murray. 1,470,095; Oct. 9.
Ring: *See*—
Hog ring. Piston ring.
Rings and packing-ring blank, Making metallic. R. A. Light and J. W. Price, jr. 1,470,537; Oct. 9.
Rings, Making blade. C. Steenstrup. 1,470,503; Oct. 9.
Rivet. C. B. Weaver. 1,469,977; Oct. 9.
Riveting apparatus. J. H. Way. 1,469,864; Oct. 9.
Road roller. A. W. Aitken. 1,470,315; Oct. 9.
Rod: *See*—
Connecting rod. Switchman's rod.
Roller: *See*—
Road roller.
Roof edging. J. Saul. 1,470,331; Oct. 9.
Roof structure. W. C. Broughton. 1,470,054; Oct. 9.
Rope socket and jar. M. C. Hazard. 1,470,445; Oct. 9.
Rough rounder and channeling machine. L. E. Johnson. 1,470,083; Oct. 9.
Route indicator. G. H. Meade. 1,470,385; Oct. 9.
Rubber, Calendering. L. P. Beauregard. 1,469,875; Oct. 9.
Rubber for washing or cleaning purposes, Hand. M. M. Dessau. 1,469,917; Oct. 9.
Rubber heel. F. J. Altenkirk. 1,470,045; Oct. 9.
Rubber, Preventing transmigration of vulcanizing agent in. J. P. Coe. 1,469,895; Oct. 9.
Rugs and the like and making the same, Fringe for. A. E. Neff. 1,470,097; Oct. 9.
Rule, Measuring. M. C. Merrill. 1,469,944; Oct. 9.
Sadiron, Electric. S. T. Arnold. 1,470,047; Oct. 9.
Safe. A. W. Reiling. 1,469,810; Oct. 9.
Salve or ointment. G. G. Bowlus. 1,470,422; Oct. 9.
Sand-mixing device. C. W. Bryson. 1,469,886; Oct. 9.
Sanitary drinking device. W. B. Allen. 1,469,771; Oct. 9.
Sausage-stuffing apparatus. H. C. Ahrens. 1,470,371; Oct. 9.
Savings deposit boxes, Locking device for. M. L. Hafer and J. H. Rosenberg. 1,470,360; Oct. 9.
Scaffold hanger. J. Sedvick. 1,469,967; Oct. 9.
Scale and rust from iron and steel, Removal of. H. N. Holmes. 1,470,225; Oct. 9.
Scale guard and marker. A. J. Pas. 1,470,470; Oct. 9.
Scale, Portable. J. Hopkinson and E. G. Freed. 1,470,010; Oct. 9.
Scale, Weighing. J. W. Bryce. 1,469,987; Oct. 9.
Scale, Weighing. E. B. Locke. 1,470,016; Oct. 9.
Scales, Counting device for. L. A. Osgood and E. E. Wolf. 1,470,025; Oct. 9.
Scoop board and end gate, Combination. W. Lawrence. 1,470,269; Oct. 9.
Screw driver, Removable-blade. N. A. Johnson. 1,469,792; Oct. 9.
Scribing instrument. H. H. Jepsen. 1,470,168; Oct. 9.
Seat: *See*—
Vehicle seat.
Separator: *See*—
Battery separator.
Sewing machines, Hemstitching attachment for. F. F. Hollard. 1,469,936; Oct. 9.
Shade, Automatic window. T. P. Livingston. 1,469,842; Oct. 9.
Shade, Ventilating window. V. M. Allen. 1,470,044; Oct. 9.
Shampooing and hair-washing apparatus. J. Wirth. 1,470,311; Oct. 9.
Sharpener, Razor-blade. E. Voges. 1,470,514; Oct. 9.
Sharpeners, Cutter for pencil. A. P. Wilson. 1,470,416; Oct. 9.
Sharpening machine, File-. W. P. Wagnon and H. J. Bomar. 1,470,266; Oct. 9.
Shears or scissors. H. Wintle. 1,470,417; Oct. 9.
Shifter-clamping device. J. Mintz. 1,470,181; Oct. 9.
Ship-propulsion apparatus. W. Reid. 1,470,191; Oct. 9.
Shock absorber. D. Boudeman, Jr. 1,469,915; Oct. 9.
Shock absorber. C. N. Colstad. 1,470,148; Oct. 9.
Shock absorber. A. G. Tappen and A. V. Wallentine. 1,470,301; Oct. 9.
Shock absorber for vehicles. J. M. Stoner. 1,470,036; Oct. 9.
Shoe. H. B. Gorman. 1,469,831; Oct. 9.
Shopping bag. E. A. Youlen. Des. 63,127; Oct. 9.
Shovel attachment, Steam-. T. S. Husher. 1,470,532; Oct. 9.
Sign, Advertising. D. W. Coyle. 1,470,522; Oct. 9.
Signal: *See*—
Auto theft signal. Railway-crossing signal.
Automobile traffic signal. Vehicle signal.
Dumb-waiter signal.
Signal-arm-actuating device. A. C. Keppler. 1,470,013; Oct. 9.
Signaling device. F. B. Watkins. 1,470,406; Oct. 9.
Signaling, Selective circuits for multiplex. B. P. Hamilton. 1,469,832; Oct. 9.
Signaling system, Electric. P. Kaminski. 1,470,368; Oct. 9.
Silo, Brick. C. V. Sorensen and H. H. Pansch. 1,470,401; Oct. 9.
Silo elevator. E. Schepnert. 1,470,292; Oct. 9.
Skirt marker. W. Miller. 1,470,538; Oct. 9.
Skiving machine. F. W. Christy. 1,469,892; Oct. 9.
Skiving machine. E. J. Ray. 1,469,849; Oct. 9.
Skiving machine. F. Ricks and A. E. Richards. 1,469,850; Oct. 9.
Sleigh, Motor. E. E. Lesher. 1,470,087; Oct. 9.
Snap fastener. M. F. Kiessling. 1,470,267; Oct. 9.
Snap gauge. C. Gabrielson. 1,469,953; Oct. 9.
Snubber. J. D. Shaw. 1,470,493; Oct. 9.
Soap or other plastic material, Machine for cutting. L. H. Simpson. 1,469,852; Oct. 9.
Sound amplifier. L. H. Donnell. 1,469,899; Oct. 9.
Sound amplifiers, Receiver support for. C. W. Kuen. 1,469,941; Oct. 9.
Speed-changing mechanism. B. A. Behrend. 1,470,050; Oct. 9.
Speed mechanism, Variable-. B. Hall. 1,470,559; Oct. 9.
Speed mechanism, Variable-. B. Hall. 1,470,560–3; Oct. 9.
Speed-varying mechanism. B. Hall. 1,470,559–62; Oct. 9.
Spinning machinery, Stop motion for. J. E. Cushman and N. C. Stanton. 1,470,351; Oct. 9.
Spoke tightener. G. C. Boller and E. Clarenbach. 1,470,137; Oct. 9.

Spool holder. H. Ehrlich. 1,470,258; Oct. 9.
Spools, Driver for spinning. J. N. Anderson. 1,469,983; Oct. 9.
Spotlamps, Mounting for universal. E. G. K. Anderson. 1,469,982; Oct. 9.
Spray bar. L. Willis and O. F. Woodworth. 1,470,246; Oct. 9.
Sprayer attachment. W. A. McKenney. 1,469,801; Oct. 9.
Spring: *See*—
Dust-cap spring.
Spring clamp. B. Ehrman. 1,470,259; Oct. 9.
Spring wheel. A. H. Kutsche. 1,470,452; Oct. 9.
Stamp affixer. A. Golden. 1,470,438; Oct. 9.
Stamp and forming the same. G. A. Gardham. 1,470,354; Oct. 9.
Stand: *See*—
Display stand. Tool-supporting stand.
Steam boiler. D. S. Jacobus and J. Wolf. 1,470,006; Oct. 9.
Steam chest and balance slide valve therefor. H. P. Robinson. 1,470,193; Oct. 9.
Steering tongue. J. B. Hathaway and A. R. McDiarmid. 1,469,834; Oct. 9.
Steering-wheel switch control. E. J. Martel. 1,470,237; Oct. 9.
Sterilizer and irrigator. T. E. Caron and D. M. Raiche. 1,470,145; Oct. 9.
Stone spreader. J. L. Fike. 1,470,157; Oct. 9.
Stove, Cooking. J. E. Chambers. 1,469,890; Oct. 9.
Stove, Oil. R. Hoffman. 1,469,789; Oct. 9.
Stove, Sheet-metal heating. J. Herbst. 1,470,365; Oct. 9.
Stovepipe anchor, flue thimble, and flue stopper. H. B. Sparks. 1,469,970; Oct. 9.
Sulphate pulp, Treating black liquor produced in the manufacture of. G. A. Richter and D. H. McMurtrie. 1,469,960; Oct. 9.
Sulphur dioxide, Cooling and absorbing system for. G. A. Richter and G. E. Wightman. 1,469,959; Oct. 9.
Sweatband and bandeau, Combined. L. Cohen. 1,469,996; Oct. 9.
Swimming device. A. Gardella. 1,470,437; Oct. 9.
Swimming-pool locker construction. M. F. Hasbrouck. 1,470,567; Oct. 9.
Swing: *See*—
Traveling swing.
Switch: *See*—
Electric switch. Time-controlled switch.
Thermostatic switch.
Switchman's rod. S. Sosnoskey. 1,470,495; Oct. 9.
Swivel bracket. W. E. Dunbar. 1,470,429; Oct. 9.
Synchronizers, Starting device for. H. Bockisch. 1,470,551; Oct. 9.
Table: *See*—
Ironing table. Tilting table.
Orthopedic table.
Talking-machine cabinet and writing desk, Combined. F. A. Alcock. 1,470,133; Oct. 9.
Tank: *See*—
Photographic washing tank.
Tappet. M. M. Wilcox. 1,470,409–12; Oct. 9.
Teapot and like vessel. F. E. Gordon. 1,470,224; Oct. 9.
Teeth, Means for selection of artificial. G. W. Clapp. 1,469,893; Oct. 9.
Telephone amplifier system. M. C. Ellison. 1,470,430; Oct. 9.
Telephone-dial support, Automatic. A. J. Curren. 1,469,779; Oct. 9.
Telephone-exchange system. T. Korthäuer. 1,470,451; Oct. 9.
Telephone-exchange system. F. J. Scudder. 1,470,035; Oct. 9.
Telephone systems. L. D. Kellogg. 1,469,794; Oct. 9.
Telephone system, Automatic. W. W. Owen. 1,469,847; Oct. 9.
Telephone system, Automatic. A. J. Ray and H. F. Obergfell. 1,469,809; Oct. 9.
Telephone system, Automatic. R. G. Richardson. 1,469,807; Oct. 9.
Telephone systems, Selector rack for automatic. A. E. Stevens. 1,470,202; Oct. 9.
Thermostatic switch. H. A. Hoeschen. 1,470,079; Oct. 9.
Tilting table. G. Anderson. 1,470,132; Oct. 9.
Time-controlled switch. H. Hokanson. 1,470,323; Oct. 9.
Timer. G. Williams. 1,470,230; Oct. 9.
Tire. E. E. Redden. 1,470,105; Oct. 9.
Tire core, Rubber-. T. J. Barker. 1,470,048; Oct. 9.
Tire-inflating device. H. D. Hazelbaker. 1,470,446; Oct. 9.
Tire-repairing tool. W. R. Kepler. 1,470,575; Oct. 9.
Tire tread. R. F. Miller. Des. 63,122; Oct. 9.
Tire valve, Pneumatic-. R. S. Burn. 1,470,271; Oct. 9.
Tire valve. H. P. Kraft. 1,469,927; Oct. 9.
Tire valve. M. C. Schweinert. 1,469,966; Oct. 9.
Tire wrapper. M. Blumenthal. 1,470,138; Oct. 9.
Tires, Air tube for pneumatic. T. B. McLeroth. 1,470,239; Oct. 9.
Tires, Blowout boot for pneumatic. L. D. Shilling. 1,470,546; Oct. 9.
Tires, Resilient support for. S. Goodman. 1,469,904; Oct. 9.
Tongs. W. Smith and P. J. Spillane. 1,470,400; Oct. 9.
Tool handle. W. R. Porter. 1,470,100; Oct. 9.
Tool-supporting stand. J. F. Stedman. 1,470,296; Oct. 9.
Toothbrush shield and dentifrice holder. E. D. Tichenor. 1,470,129; Oct. 9.
Torch, Alcohol. J. Knapp. 1,469,795; Oct. 9.
Toy shooter. D. Cavicchioli. 1,469,990; Oct. 9.
Toy vehicle. W. T. Green. 1,470,441; Oct. 9.
Tracker bar, Transposing. R. Head. 1,470,363; Oct. 9.
Tractor trailer. W. C. Nabors. 1,470,328; Oct. 9.
Tractors, Rear-axle extension device for. J. L. Opitz. 1,470,283; Oct. 9.
Train control, Electromagnetic. A. L. Ruthven. 1,470,109; Oct. 9.
Train control, Simplex. A. L. Ruthven. 1,470,108; Oct. 9.
Trains, Draft gear for. B. S. Dickerson. 1,470,153; Oct. 9.
Transfer device, Character-. G. Dumars. 1,470,066; Oct. 9.
Transmission mechanism. B. Hall. 1,470,564–5; Oct. 9.
Transmission mechanism. R. O. Hellwarth. 1,470,078; Oct. 9.
Trap: *See*—
Animal trap.
Traveling swing. S. C. Jacobs. 1,469,910; Oct. 9.
Tree: *See*—
Jumping tree.
Trolley wheel. R. W. Funk. 1,469,784; Oct. 9.
Trolley-wire hanger. W. L. Brady. 1,470,423; Oct. 9.
Trousers, Making. R. Frezza. 1,470,434; Oct. 9.
Trousers presser. E. Chambers. 1,470,376; Oct. 9.
Trousers protector. P. Topfner. 1,470,511; Oct. 9.
Truck. A. A. Bishop. 1,470,254; Oct. 9.
Truck. C. W. Cade. 1,470,526; Oct. 9.
Truck frame. R. E. Wilder. Reissue 15,696; Oct. 9.
Tube squeezer. S. J. Keiper. 1,470,534; Oct. 9.
Turbine. A. T. Kasley. 1,469,925; Oct. 9.
Turbine. H. F. Schmidt. 1,469,965; Oct. 9.
Turbine blading. R. C. Allen. 1,469,870; Oct. 9.
Turbine blading. C. Gilson. 1,469,901; Oct. 9.
Turbine blading. H. T. Herr. 1,469,909; Oct. 9.
Turbine blading. L. N. Thompson. 1,469,973; Oct. 9.
Turbine, Elastic-fluid. H. T. Herr. 1,469,908; Oct. 9.
Turbine, Elastic-fluid. C. Steenstrup. 1,470,499–500; Oct. 9.
Turbine, Elastic-fluid. C. Steenstrup. 1,470,505; Oct. 9.
Turbine elements, Manufacturing. C. Steenstrup. 1,470,506; Oct. 9.
Turbine elements, Manufacturing. C. Steenstrup. 1,470,508; Oct. 9.
Turbine-flue cleaner. C. S. Richman and E. O. Fechner. 1,470,219; Oct. 9.
Turbine rotor and making same, Elastic-fluid. C. Steenstrup. 1,470,498; Oct. 9.
Turbines and making same, Diaphragm for elastic-fluid. C. Steenstrup. 1,470,497; Oct. 9.
Turbines, Making blade rings for elastic-fluid. C. Steenstrup. 1,470,501–2; Oct. 9.
Turbines, Making rotor elements for elastic-fluid. C. Steenstrup. 1,470,507; Oct. 9.
Typewriter tabulator. J. S. Marcussen. 1,470,464; Oct. 9.
Typewriters, Line-space and carriage-return lever and pad for. W. V. and A. E. Redfern. 1,470,190; Oct. 9.
Typewriting machine. M. C. Crawley. 1,469,774–8; Oct. 9.
Typewriting machine. W. F. Helmond. 1,470,568; Oct. 9.
Typewriting machine. E. B. Hess. 1,469,934; Oct. 9.
Typographic numbering machine. P. Malewig and J. Wallace. 1,470,278; Oct. 9.
Undergarments, Ribbed underflap for. S. F. Swantees. 1,469,972; Oct. 9.
Underreamer, Expansive. L. H. Baldwin. 1,470,316; Oct. 9.
Underwear, Producing fullness in the seat of. D. M. Stephens. 1,470,580; Oct. 9.
Unit carrier, Interchangeable-. H. W. Kirchner. 1,470,266; Oct. 9.
Vacuumizing machine. G. A. Beardsley and D. Wardell. 1,469,874; Oct. 9.
Valve. L. L. Carter. 1,470,057; Oct. 9.
Valve. F. Rahm. 1,470,102; Oct. 9.
Valve. W. T. Tabb. 1,470,037; Oct. 9.
Valve, Check. B. Love and C. Gaylor. 1,470,018; Oct. 9.
Valve, Compound regulating. G. J. Stuart. 1,469,854; Oct. 9.
Valve, Compound regulating. G. J. Stuart. 1,469,855; Oct. 9.
Valve construction, Flush-. S. J. T. Metzger. 1,470,179; Oct. 9.
Valve-facing tool. R. Hohnbach. 1,469,935; Oct. 9.
Valve, Float. W. M. Black. 1,470,213; Oct. 9.
Valve for hydraulic oil storage and distribution systems, Controlling. F. G. Farr. 1,470,233; Oct. 9.
Valve mechanism, Reverse-. F. Riesner. 1,470,483; Oct. 9.
Valve-operating mechanism, Tank-car. J. C. Abel. 1,470,340; Oct. 9.
Valve, Sand-filter. M. F. Ryan. 1,470,290; Oct. 9.
Valve-spring-lifting tool. M. J. Vagge. 1,469,974; Oct. 9.
Valve stems, Dust cap for. B. M. and M. M. Berngartt. 1,470,319; Oct. 9.
Valve stems, Packing device for. A. C. Lindbloom. 1,470,276; Oct. 9.

Valve unloader, Plate-. H. V. Haight. 1,470,077; Oct. 9.
Valves, Automatic lock for release. R. G. Labachotte. 1,470,173; Oct. 9.
Valves, Making. M. M. Wilcox. 1,470,413; Oct. 9.
Valves, Making poppet. A. A. Schupp. 1,470,034; Oct. 9.
Valves, Making poppet. M. M. Wilcox. 1,470,041; Oct. 9.
Valves, Spring for choker. J. E. Messenger. 1,470,583; Oct. 9.
Vault, Burial. M. Van Slyke. 1,470,130; Oct. 9.
Vehicle seat. F. Gahm. 1,470,004; Oct. 9.
Vehicle sign. J. A. Morgan. 1,470,387; Oct. 9.
Vehicle signal. H. F. Taylor, jr. 1,470,127; Oct. 9.
Vehicle suspension means. K. Hellenthal. 1,469,788; Oct. 9.
Vehicle wheel. H. M. Specht. 1,470,333; Oct. 9.
Vehicle wheel. E. V. Stone. 1,470,496; Oct. 9.
Vehicle wheel, Resilient. A. B. Fuhr. 1,470,071; Oct. 9.
Vehicle wheel, Resilient. A. T. Maltby. 1,470,089; Oct. 9.
Vehicles and the like, Springing of road. T. W. E. Brogden. 1,470,424; Oct. 2.
Vehicles, Brake for self-propelling. F. H. Ricker. 1,470,192; Oct. 9.
Vehicles, Door and wall panel for. J. A. Fleckenstein. 1,469,922; Oct. 9.
Vehicles, Emergency brake for motor. J. W. Orr. 1,470,098; Oct. 9.
Vehicles, Load-snpporting means for motor. H. C. Knight. 1,470,171; Oct. 9.
Vehicles, Signal for motor-driven. F. C. Drew. 1,470,155; Oct. 9.
Vehicles, Tank control for motor. A. W. Hutchinson. 1,469,937; Oct. 9.
Velocipede. F. W. Lambie. 1,470,576; Oct. 9.
Velocipede driving part. J. A. Bried. 1,469,884; Oct. 9.
Vending machine. J. A. Duckett. 1,470,232; Oct. 9.
Vending machines, Coin-controlled mechanism for. A. D. Grover. 1,470,234; Oct. 9.
Ventilator. O. Henriksen. 1,470,262; Oct. 9.
Vermin-killing device for plants. J. W. Furman. 1,470,436; Oct. 9.
Vulcanized products, Making. J. E. Grosjean. 1,470,442; Oct. 9.
Wagon, Coaster. J. J. Ryan. 1,469,821; Oct. 9.
Washer: *See*—
Well-screen washer.
Washing machine. O. Allen, jr. 1,469,980; Oct. 9.
Washing machine. C. M. Huntington. 1,469,837; Oct. 9.
Washing machine, Cylinder. G. Slider. 1,470,245; Oct. 9.
Washing machines, Can-turning device for. W. R. Johnston. 1,470,533; Oct. 9.
Washing machines, Drum for. W. G. Wagenhals. 1,469,975; Oct. 9.
Wastecan. J. Walker. 1,470,207; Oct. 9.
Water cooler. E. P. Mull. 1,470,094; Oct. 9.
Water, Deoxidizing. R. G. Knowland. 1,470,084; Oct. 9.
Water heater. A. F. Moneuse. 1,469,803; Oct. 9.
Watering fountain, Combination cattle and hog. C. Long. 1,470,384; Oct. 9.
Well-drilling rig. R. H. Ramsey. 1,470,329; Oct. 9.
Well-screen washer. H. M. Parker. 1,469,949; Oct. 9.
Wells, Fishing tool for oil. T. Ratcliffe. 1,470,482; Oct. 9.
Wells, Flowing device for oil. A. Boynton. 1,470,053; Oct. 9.
Wells, Sand wheel for oil. E. M. Smith. 1,469,828; Oct. 9.
Wheel: *See*—
Metal wheel. Trolley wheel.
Resilient wheel. Vehicle wheel.
Spring wheel.
Wheel. O. E. Wilson. 1,470,517; Oct. 9.
Wheel. C. Young. 1,469,867; Oct. 9.
Wheel and gear remover. E. E. Winchell. 1,470,310; Oct. 9.
Wheel construction, Wire. C. Sauzedde. 1,469,822; Oct. 9.
Wheels, Demountable rim for vehicle. F. H. Moyer. 1,470,240; Oct. 9.
Winding machine, Cop and pirn. T. A. and H. A. Boyd. 1,469,986; Oct. 9.
Window. H. C. George. 1,470,223; Oct. 9.
Window fastener. E. G. Lance. 1,470,382; Oct. 9.
Window lock. C. A. Hagan. 1,470,005; Oct. 9.
Window-sash lock. A. P. Kutsche and A. A. Winter. 1,470,380; Oct. 9.
Window-washing apparatus. E. Piton. 1,470,388; Oct. 9.
Windows, Ventilator hood for. H. Schreier. 1,470,392; Oct. 9.
Windshield. A. C. Barley. 1,469,873; Oct. 9.
Windshields, Eyeshade for. W. F. Church. 1,470,553; Oct. 9.
Wire-bending machine. T. C. Russell and O. A. Langos. 1,470,106; Oct. 9.
Wire, Continuously cleaning and drawing. E. Boley. 1,470,374; Oct. 9.
Wire-drawing bench, Continuous. E. Boley. 1,470,375; Oct. 9.
Wireless communication. F. Lowenstein. 1,470,088; Oct. 9.
Wireless tie insulator. H. A. Frederick. 1,470,322; Oct. 9.
Work-holding stand. C. O. Walper. 1,469,860; Oct. 9.
Wrapped box, Semiloose-. H. B. Smith. 1,470,398; Oct. 9.
Wrench. J. F. Astley. 1,470,421; Oct. 9.
Wrench. J. E. Owen. 1,470,026; Oct. 9.
Wrench. J. R. Palmeter. 1,470,184; Oct. 9.
Wringers, Releasing device for. O. B. Woodrow. 1,470,312; Oct. 9.
Wringing apparatus. S. C. Lawlor. 1,469,942; Oct. 9.

CLASSIFICATION OF PATENTS

ISSUED OCTOBER 9, 1923.

NOTE.—First number=class, second number=subclass, third number=patent number.

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182: 1,470,107
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489: 1,470,495
248— 5: 1,470,296
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250— 8: 1,470,068
19: 1,469,905
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251— 25: 1,470,460
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144: 1,470,018
253— 3: 1,470,219
69: 1,469,908
70: 1,469,965
77: 1,469,870
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254— 17: 1,470,515
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89: 1,470,581
103: 1,470,180
254— 185: 1,469,900
255— 76: 1,470,316
256— 54: 1,470,367
257— 25: 1,469,916
86: 1,469,896
151: 1,470,033
167: 1,469,898
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246: 1,469,803
258— 13: 1,470,427
259— 131: 1,470,169
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144: 1,469,886
260— 68: 1,470,554
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152: 1,469,824
262— 6: 1,470,520
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265— 30: 1,470,025
69: 1,470,010
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267— 1: 1,470,583
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160: 1,469,801
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294— 17: 1,470,327
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73: 1,470,085
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1,470,482
115: 1,470,400
295— 42: 1,470,391
296— 24: 1,470,254
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45: 1,470,308
59: 1,470,269
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85: 1,469,873
97: 1,470,553
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140: 1,470,454
299— 17: 1,469,771
39: 1,470,246
140: 1,470,111
301— 6: 1,469,964
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30: 1,470,240
56: 1,469,822
63: 1,470,222
1,470,333
67: 1,469,769
81: 1,470,137
303— 80: 1,470,173
304— 16: 1,470,388
19: 1,469,967
38: 1,470,122

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abbott, Frederick J., doing business as Crystal Petroleum Products Corporation, Los Angeles, Calif. Motor fuels. 174,418; Oct. 16; Serial No. 180,406; published July 17, 1923.

Abbott Laboratories, Chicago, Ill. Preparation for the prevention and treatment of sunburn. 174,510; Oct. 16; Serial No. 179,914; published July 24, 1923.

Aktiengesellschaft für chemische Produkte vormals H. Scheidemandel, Berlin, Germany. Pharmaceutical preparations for promoting the growth of human hair. 174,404; Oct. 16; Serial No. 171,566; published July 17, 1923.

Allied Factories Corporation, Kansas City, Mo. Household electrical devices. 174,441; Oct. 16; Serial No. 177,118; published June 19, 1923.

American Asphalt Paint Co., Chicago, Ill. Ready-mixed paint. 174,494; Oct. 16; Serial No. 178,017; published July 17, 1923.

American Chain Company, Inc., New York, N. Y., and Bridgeport, Conn. Antiskid chains for vehicle wheels. 174,342; Oct. 16; Serial No. 155,005; published June 6, 1922.

American Electric Equipment Co., Inc., New York, N. Y. Portable electric lamps and parts thereof, brackets, etc. 174,410; Oct. 16; Serial No. 175,754; published July 10, 1923.

American Insecticide Co., The, Lima, Ohio. Insecticide. 174,320; Oct. 16; Serial No. 177,758; published July 10, 1923.

American Wholesale Corporation (Baltimore Bargain House), Baltimore, Md. Mouth harmonicas. 174,389; Oct. 16; Serial No. 172,816; published June 19, 1923.

Atlas Specialty Manufacturing Company, Chicago, Ill. Fabric covers for automobile accessories. 174,463; Oct. 16; Serial No. 174,057; published July 17, 1923.

Bachmann, Jacob, doing business as J. Bachmann & Co., New York, N. Y. Leather belting. 174,438; Oct. 16; Serial No. 177,760; published July 3, 1923.

Baltimore Bargain House, Baltimore and Cumberland, Md. Shoe lasts, blind awnings, animal traps, rubber cloth, etc. 174,459; Oct. 16; Serial No. 117,795; published June 26, 1923.

Banos, V., & Co. Inc., Brooklyn, N. Y. Food product. 174,516; Oct. 16; Serial No. 177,948; published July 24, 1923.

Barber Asphalt Paving Company, The, Philadelphia, Pa. Asphalt and paving materials containing asphalt. 174,450; Oct. 16; Serial No. 163,965; published July 3, 1923.

Barber Asphalt Company, The, Philadelphia, Pa. Fire wagons, surface heaters, stationary and portable melting kettles. 174,469; Oct. 16; Serial No. 170,748; published June 26, 1923.

Barnett, I. H., & Brother, New York, N. Y. Men's dress, negligee, and work shirts. 174,380; Oct. 16; Serial No. 162,099; published Oct. 3, 1922.

Baur, Anton J., doing business as Baur Chemical Company, Pittsburgh, Pa. Salve. 174,544; Oct. 16.

Beardsley, Robert, doing business as Beardsley Studios, Chicago, Ill. Lamp shades of fibrous material. 174,396; Oct. 16; Serial No. 174,997; published July 17, 1923.

Berco Medicine Co. (See Gilbert, Henry S.)

Berdan Company, The, Toledo, Ohio. Coffee and tea. 174,372; Oct. 16; Serial No. 167,864; published Mar. 6, 1923.

Biltmore Industries. (See Grove Park Inn, Inc.)

Bird, Mellen T., doing business as T. Bird & Co., Boston, Mass. Correspondence paper, cards, envelopes, etc. 174,425; Oct. 16; Serial No. 179,846; published June 19, 1923.

Bishop, Arthur W., doing business as King & Winston Products Co., St. Louis, Mo. Pile balm and tablets for disorders of the liver and bowels. 174,360; Oct. 16; Serial No. 176,710; published July 10, 1923.

Bolduc, George J., doing business as G. J. Bolduc & Company, Portland, Oreg. Cough drops and lozenges. 174,356; Oct. 16; Serial No. 177,032; published July 10, 1923.

Bornn, Frank, doing business as Bornn Distilling Company, New York, N. Y. Preparation for bathing and massaging. 174,393; Oct. 16; Serial No. 174,425; published July 17, 1923.

Bosworth Line Co., Inc., East Homer, N. Y. Fishing lines. 174,541; Oct. 16.

Botany Worsted Mills, Passaic, N. J. Wool pile fabric. 174,506; Oct. 16; Serial No. 180,358; published July 24, 1923.

Botany Worsted Mills, Passaic, N. J. Brocaded wool pile fabric. 174,507; Oct. 16; Serial No. 180,359; published July 24, 1923.

Bradt, Gustavus H., San Francisco, Calif. Canned berries and fruits. 174,533; Oct. 16.

Brine, James W., Company, Boston, Mass. Hip and kidney pads, elastic bandages, etc. 174,388; Oct. 16; Serial No. 172,578; published July 17, 1923.

Brooklyn Metal Stamping Co., Brooklyn, N. Y. Radio-frequency transformers. 174,540; Oct. 16.

Brown, C. D., & Co., Inc., Rochester, N. Y. Finished upper-leather calfskins. 174,481–2; Oct. 16; Serial Nos. 178,160–1; published July 17, 1923.

Brown, Jervis D., Los Angeles, Calif. Ointment for treatment of nervous itching and as a general healing ointment. 174,395; Oct. 16; Serial No. 174,765; published July 17, 1923.

Brown & Schler Company, Grand Rapids, Mich. Storage batteries. 174,433; Oct. 16; Serial No. 178,816; published June 26, 1923.

Bruno, C., & Son, Inc., New York, N. Y. Musical instruments. 174,315; Oct. 16; Serial No. 177,543; published June 12, 1923.

Bruns, A., & Sons, Brooklyn, N. Y. Furniture-moving pads, tents, tarpaulin, awnings, etc. 174,439; Oct. 16; Serial No. 177,544; published July 3, 1923.

Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Rubber and fabric tires. 174,437; Oct. 16; Serial No. 177,951; published July 17, 1923.

Buchanan, E. Everett, jr., doing business as Rose Cerate Company, Elmira, N. Y. Antiseptic salve. 174,545; Oct. 16.

C. V. & R. Batigne, New York, N. Y. Positive projection slides and motion-picture films. 174,490; Oct. 16; Serial No. 176,664; published July 24, 1923.

Cabot, Godfrey L., Inc., Boston, Mass. Carbon black. 174,488; Oct. 16; Serial No. 176,065; published July 17, 1923.

Chadwin, Leo L., doing business as Protection Tire & Rubber Company, Philadelphia, Pa. Rubber tires and inner tubes. 174,431; Oct. 16; Serial No. 179,030; published July 3, 1923.

Chase Foundry and Manufacturing Company, The, Columbus, Ohio. Elevating and conveying, special factory, charging, etc. trucks and cars. 174,448; Oct. 16; Serial No. 165,668; published July 3, 1923.

Cincinnati Wholesale Grocery Company, The, Cincinnati, Ohio. Canned peas and tomatoes. 174,525; Oct. 16; Serial No. 177,360; published July 24, 1923.

Cluett, Peabody & Company, Inc., Troy, N. Y. Collars. 174,365; Oct. 16; Serial No. 176,451; published July 17, 1923.

Cohen Company Inc., The, Richmond, Va. Women's silk hosiery. 174,508; Oct. 16; Serial No. 180,271; published July 24, 1923.

Columbus McKinnon Chain Company, The, Columbus, Ohio. Tire chains. 174,497; Oct. 16; Serial No. 179,031; published July 24, 1923.

Continental Fibre Company, The, Newark, Del. Composite material. 174,392; Oct. 16; Serial No. 174,236; published July 17, 1923.

Crystal Petroleum Products Corporation. (See Abbott, Frederick J.)

Cumberland Chemical Co., Nashville, Tenn. Tablets and a salve for hemorrhoids. 174,479; Oct. 16; Serial No. 178,167; published July 10, 1923.

Cumberland Chemical Co., Nashville, Tenn. Tonic compound. 174,480; Oct. 16; Serial No. 178,166; published July 10, 1923.

Cunningham, Elmer T., San Francisco, Calif. Radio apparatus. 174,343; Oct. 16; Serial No. 153,200; published June 26, 1923.

Cunningham, Elmer T., San Francisco, Calif. Thermionic detector, amplifier, and oscillator tubes. 174,432; Oct. 16; Serial No. 178,957; published June 26, 1923.

De Forest Radio Telephone and Telegraph Company, Jersey City, N. J. Radio telephone and telegraph apparatus. 174,446; Oct. 16; Serial No. 167,229; published June 26, 1923.

De Forest Radio Telephone & Telegraph Company, Jersey City, N. J. Radio telephone and telegraph receiving sets and transmitting sets and parts. 174,411; Oct. 16; Serial No. 175,472; published June 26, 1923.

Detroit Lubricator Company, Detroit, Mich. Metal valves for pipe lines and the like. 174,509; Oct. 16; Serial No. 179,929; published July 24, 1923.

Deutsche Gold und Silber Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany. Chemical preparations used against plant pests and seed afflictions. 174,373; Oct. 16; Serial No. 167,842; published July 17, 1923.

Didriksen, Johan, Christiania, Norway. Cod-liver oil. 174,520; Oct. 16; Serial No. 175,715; published July 24, 1923.

Douglas, Harry A., doing business as H. A. D. Sales & Engineering Co., Not Incorporated, Bronson, Mich. Electric connectors, connecting plugs, wiring outfits, etc. 174,458; Oct. 16; Serial No. 142,829; published June 26, 1923.

Drabek, Charles, doing business as Painters Supply Co., Cleveland, Ohio. Paints, varnishes, paint enamels. 174,377; Oct. 16; Serial No. 165,858; published July 17, 1923.

Durwyllan Co., Inc., Paterson, N. J. Transmission lining for Ford cars. 174,535; Oct. 16.

Dyestuffs & Chemicals, Incorporated, St. Louis, Mo. Coloring matter for butter. 174,359; Oct. 16; Serial No. 176,790; published July 17, 1923.

Edrul Company, Cincinnati, Ohio. Chemicals consisting of a tooth paste, mouth wash, etc. 174,478; Oct. 16, Serial No. 178,258; published July 17, 1923.

Edwards, Frank M., Milwaukee, Wis. Trees, plants, shrubs, and bushes. 174,414; Oct. 16; Serial No. 178,831; published July 17, 1923.

Electric Heat Unit Co., St. Louis, Mo. Electrical soldering irons. 174,426; Oct. 16; Serial No. 179,402; published June 26, 1923.

Ellis Resilient Wheel Corporation, Seattle, Wash. Wheels of automobiles and industrial cars. 174,477; Oct. 16; Serial No. 178,239; published July 17, 1923.

Eshborn, Samuel, New York, N. Y. Phonographs and phonograph accessories. 174,391; Oct. 16; Serial No. 173,702; published June 26, 1923.

Eskilstuna Stålpressnings Aktiebolag, Eskilstuna, Sweden. Metal lamp shades. 174,461; Oct. 16; Serial No. 174,361; published June 26, 1923.

Esperson, Niels, doing business as Mid-Continet Clay Company, Peru, Kans. Building bricks and roofing tile. 174,466; Oct. 16; Serial No. 171,586; published July 3, 1923.

Essential Oil Company, New York City, N. Y. Essential oils. 174,329; Oct. 16; Serial No. 178,030; published July 10, 1923.

Ethicus Prompt Treatment Kit, Inc., New York, N. Y. Preparation for the relief of headache, pain, etc. 174,317; Oct. 16; Serial No. 177,729; published July 10, 1923.

Etna Radio Co. Inc., New York, N. Y. Loud-speaking telephones, telephone receivers, transmitters, plugs, jacks, etc. 174,440; Oct. 16; Serial No. 177,218; published June 19, 1923.

Euclid Crane and Hoist Company, The, Euclid, Ohio. Electric traveling cranes, hoists, trolleys, and monorail trolleys. 174,530; Oct. 16.

Everett Knitting Works, Lebanon, N. H. Misses' and children's knitted underwear and sleeping suits. 174,324; Oct. 16; Serial No. 177,904; published July 17, 1923.

Everett Knitting Works, Lebanon, N. H. Infants' knitted underwear, wrappers, and bands. 174,325; Oct. 16; Serial No. 177,903; published July 17, 1923.

Farbwerke vorm. Meister Lucius & Brüning, Hochst-on-the-Main, Germany. Chemical products for industrial, scientific, and photographic purposes. 174,376; Oct. 16; Serial No. 165,584; published July 10, 1923.

Finkhousen, Frank W., Fort Wayne, Ind. Electrically-operated vacuum brushes. 174,539; Oct. 16.

Flexible Steel Lacing Co., Chicago, Ill. Guards for electric lamps. 174,428; Oct. 16; Serial No. 179,190; published June 26, 1923.

Ford Motor Company, Highland Park, Mich. Motor cars. 174,471; Oct. 16; Serial No. 170,014; published July 17, 1923.

Friedlander, Percy, and A. Solomon, Chicago, Ill. Hosiery. 174,347; Oct. 16; Serial No. 141,265; published Mar. 14, 1922.

Garneau, Jos., Co., Inc., The, New York, N. Y. Canned fish. 174,519; Oct. 16; Serial No. 175,080; published July 24, 1923.

Gerson & Breyer, San Francisco, Calif. Men's women's, and children's hosiery. 174,491; Oct. 16; Serial No. 177,374; published July 24, 1923.

Giant Umbrella Co. (See Grossman, Jacob.)

Gilbert Bros. & Co., Inc., Baltimore, Md. Preparation for the treatment of headache, neuralgia, neuritis, colds, etc. 174,341; Oct. 16; Serial No. 155,094; published Mar. 28, 1922.

Gilbert, Henry S., doing business as Berco Medicine Co., Louisville, Ky. Female general tonics. 174,318; Oct. 16; Serial No. 177,733; published July 10, 1923.

Gillen-Cole Co., Portland, Oreg. Asbestos mats. 174,467; Oct. 16; Serial No. 171,312; published July 3, 1923.

Gloria Light Co., Chicago, Ill. Kerosene-gas-making appliances. 174,408; Oct. 16; Serial No. 171,123; published July 17, 1923.

Goethel, Alfred C., Co., The, Milwaukee, Wis. Sheet-metal sectional rowboats. 174,405; Oct. 16; Serial No. 176,617; published July 17, 1923.

Golden, Robert, New York, N. Y. Spotlights and light projectors. 174,430; Oct. 16; Serial No. 179,145; published June 26, 1923.

Goldman, I., doing business as Goldman's, San Francisco and Oakland, Calif. Ladies' suits, coats, dresses, etc. 174,547; Oct. 16.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Airships, balloons, kites, aviation and aeronautical accessories. 174,449; Oct. 16; Serial No. 164,498; published July 3, 1923.

Gorton-Pew Fisheries Company, Gloucester, Mass. Potatoes and salt fish combined for fish cakes. 174,518; Oct. 16; Serial No. 177,909; published July 24, 1923.

Gotham Corporation, The, New York, N. Y. Preparation for the treatment of constipation and its symptoms. 174,355; Oct. 16; Serial No. 177,040; published July 10, 1923.

Grant, W. T., Company, Lynn, Mass., and New York, N. Y. Electric hair-curling irons. 174,367; Oct. 16; Serial No. 175,656; published June 12, 1923.

Griffin, William R., West Norwood, N. J. Moth-preventive. 174,374; Oct. 16; Serial No. 167,720; published July 17, 1923.

Grossman, Jacob, doing business as Giant Umbrella Co., New York, N. Y. Umbrellas and parasols. 174,366; Oct. 16; Serial No. 176,342; published July 10, 1923.

Grove Park Inn, Inc., doing business as Biltmore Industries, Asheville, N. C. Woolen homespun textile fabrics in the piece. 174,528; Oct. 16.

H. A. D. Sales & Engineering Co., Not Incorporated. (See Douglas, Harry A.)

H. K. H. Silk Co., The, Watertown, Conn. Pure and artificial silk threads. 174,529; Oct. 16.

Haldy, George P., Cedar Rapids, Iowa. Preparation for the hair and scalp. 174,319; Oct. 16; Serial No. 177,737; published July 10, 1923.

Hall & Sons. (See Union Piano Company.)

Hall, Thralls & Co., Hymera, Ind. Shampoo, scalp and hair oils, dandruff ointment, skin lotion. 174,368; Oct. 16; Serial No. 175,555; published July 10, 1923.

Hammer-Bray Company, Oakland, Calif. Cookstoves, ranges, etc. 174,454; Oct. 16; Serial No. 160,604; published July 3, 1923.

Harrisburg Coal Mining Company, Chicago, Ill. Coal. 174,444; Oct. 16; Serial No. 176,624; published July 17, 1923.

Hartmann Trunk Company, Racine, Wis. Waterproof cloth or fabric which forms the outside covering for trunks. 174,457; Oct. 16; Serial No. 147,289; published June 26, 1923.

Haynes, George A., Inc., Boston, Mass. Caps or closures for receptacles. 174,460; Oct. 16; Serial No. 180,762; published July 3, 1923.

Heathcote, Edward, New York, N. Y. Hosiery, underwear, sweaters, gloves, and mittens. 174,364; Oct. 16; Serial No. 176,465; published July 17, 1923.

Hickey-Freeman Co., Rochester, N. Y. Overcoats and topcoats. 174,352; Oct. 16; Serial No. 177,377; published July 17, 1923.

Hollander, Isadore, doing business as Hollander Chemical Works, Bayonne, N. J. Insecticides. 174,402; Oct. 16; Serial No. 178,388; published July 17, 1923.

Home Lighting Equipment Corporation, New York, N. Y. Portable electrical lamps, parts thereof, etc. 174,409; Oct. 16; Serial No. 175,792; published July 10, 1923.

Hood, H. P., & Sons, Inc., Boston, Mass. Confection comprising a frozen edible material covered with a coating of hardened chocolate. 174,338; Oct. 16; Serial No. 158,234; published Dec. 5, 1922.

Hornung, Ernest W., doing business as The Hubbell Manufacturing Co., Cleveland, Ohio. Glass curtain lights and frames for automobiles. 174,445; Oct. 16; Serial No. 169,904; published July 17, 1923.

Horst, Amos L., New York, N. Y. Hosiery. 174,362; Oct. 16; Serial No. 176,547; published July 17, 1923.

Houze, L. J., Convex Glass Company, Point Marion, Pa. Sheet glass. 174,500; Oct. 16; Serial No. 181,397; published July 24, 1923.

Hrejsa, Joseph F., Chicago, Ill. Laxative preparations. 174,326; Oct. 16; Serial No. 177,972; published July 17, 1923.

Hubbell Manufacturing Co., The. (See Hornung, Ernest W.)

Hydrox Corporation, Wilmington, Del. Ice cream. 174,526; Oct. 16; Serial No. 177,783; published July 24, 1923.

Independent Drug Company, Jacksonville, Fla. Water bottles, fountain syringes, etc. 174,420; Oct. 16; Serial No. 181,279; published July 17, 1923.

Indra Pearl Co., Inc., The, New York, N. Y. Pearls. 174,424; Oct. 16; Serial No. 171,219; published Jan. 2, 1923.

Jeanne Tournier, Inc., New York, N. Y. Hosiery and knitted underwear. 174,538; Oct. 16.

Jenquins Laboratories, The, Chicago, Ill. Cod-liver-oil pills. 174,476; Oct. 16; Serial No. 178,252; published July 10, 1923.

Johnston, R. F., Paint Company, The, Cincinnati, Ohio. Decorating outfits. 174,443; Oct. 16; Serial No. 176,631; published July 3, 1923.

Kaletzky, Louis, Syracuse, N. Y. Medicine for rheumatism and backache. 174,400; Oct. 16; Serial No. 178,344; published July 17, 1923.

Kann, William L., Pittsburgh, Pa. Lumber, both finished and unfinished. 174,412; Oct. 16; Serial No. 174,661; published June 26, 1923.

Kellogg Company, Battle Creek, Mich. Coffeelike beverage. 174,517; Oct. 16; Serial No. 177,914; published July 24, 1923.

Kenny, C. D., Company, Baltimore, Md. Coffee. 174,515; Oct. 16; Serial No. 178,257; published July 24, 1923.

Keynote Manufacturing Co. Inc., Indianapolis, Ind. Septic tanks. 174,363; Oct. 16; Serial No. 176,480; published July 17, 1923.

King & Winston Products Co. (See Bishop, Arthur W.)

Kistler Leather Company, South Boston, Mass. Leather. 174,407; Oct. 16; Serial No. 175,991; published July 3, 1923.

Klein Chocolate Company, Elizabethtown, Pa. Chocolate. 174,348; Oct. 16; Serial No. 140,895; published Mar. 1, 1921.

Kleinschmidt Electric Co., Inc., Long Island City, N. Y. Telegraph apparatus. 174,371; Oct. 16; Serial No. 168,894; published June 12, 1923.

Koblenzer, Sidney J., doing business as M. Koblenzer & Son, New York, N. Y. Shirts, pyjamas, underwear, hats, hose, etc. 174,498; Oct. 16; Serial No. 179,153; published July 24, 1923.

Krippendorf-Tuttle White Cliffs Products Co., The, Cincinnati, Ohio. Ground limestone, chalk whiting, chalk, asphalt filler, and whiting. 174,406; Oct. 16; Serial No. 176,482; published July 3, 1923.

La Fleur Laboratories. (See Levy, Simeon S.)

Larkin, John C., New York, N. Y. Hosiery. 174,339; Oct. 16; Serial No. 155,895; published July 18, 1922.

Larson-Sorahan Co., Inc., Salem, Oreg. Furniture and automobile polish. 174,492; Oct. 16; Serial No. 177,563; published July 17, 1923.

Lebwohl & Mindich, New York, N. Y. Tobacco, cigar, and cigarette boxes. 174,375; Oct. 16; Serial No. 166,950; published July 17, 1923.

Lehman Bros., New York, N. Y. Silver-plated articles. 174,351; Oct. 16; Serial No. 177,891; published May 29, 1923.

Levy, Simeon S., doing business as La Fleur Laboratories, Cleveland, Ohio. Hair dressing. 174,322; Oct. 16; Serial No. 177,854; published July 10, 1923.

Lilly, Eli, & Company, The (now by change of name Eli Lilly & Company), Indianapolis, Ind. Medical preparation. 174,383; Oct. 16; Serial No. 159,212; published July 17, 1923.

Lyon & Healy, assignor to Lyon & Healy, Inc., Chicago, Ill. Musical instruments, merchandise, and goods. 174,345; Oct. 16; Serial No. 144,290; published June 12, 1923.

Lyradion Manufacturing Company, Mishawaka, Ind. Phonographs both alone and in combination with radio receiving sets. 174,321; Oct. 16; Serial No. 177,790; published June 26, 1923.

Lyradion Manufacturing Company, Mishawaka, Ind. Radio receiving sets, loud speakers, batteries, amplifying horns, etc. 174,370; Oct. 16; Serial No. 175,091; published June 26, 1923.

McEvoy, Joseph H., Houston, Tex. Well screens and well strainers. 174,485–6; Oct. 16; Serial No. 175,564–5; published July 24, 1923.

McKoin, Ida, Guthrie, Okla. Hair grower. 174,323; Oct. 16; Serial No. 177,858; published July 17, 1923.

Macy, R. H., & Co., Inc., New York, N. Y. Aprons. 174,394; Oct. 16; Serial No. 174,524; published July 17, 1923.

Manning, Maxwell & Moore, Inc., New York, N. Y. Copper-nickel-alloy castings. 174,493; Oct. 16; Serial No. 177,565; published July 24, 1923.

Marshall Field & Company, Chicago, Ill. Jewelry. 174,382; Oct. 16; Serial No. 161,539; published Feb. 20, 1923.

Marshall Field & Company, Chicago, Ill. Nail files, toilet tweezers, nail and cuticle nippers. 174,419; Oct. 16; Serial No. 181,270; published July 17, 1923.

Marshall Field & Company, Chicago, Ill. Cotton voile in the piece. 174,531; Oct. 16.

Marshall-Gerken Company, The, Toledo, Ohio. Electrical binding posts. 174,464; Oct. 16; Serial No. 173,775; published June 12, 1923.

Marshall-Wells Company, Duluth, Minn. Paint and shaving brushes. 174,503; Oct. 16; Serial No. 181,135; published July 24, 1923.

Martha Maid Manufacturing Company, Incorporated, Chicago, Ill. Cotton, silk, wool, and linen underwear of knitted and textile fabric for females. 174,331; Oct. 16; Serial No. 178,084; published July 17, 1923.

Martin, C. J., Austin, Tex. Poultry medicine for the treatment of blackhead, etc. 174,423; Oct. 16; Serial No. 170,943; published Aug. 7, 1923.

Master Builders Company, The, Cleveland, Ohio. Preparations to be incorporated with mortar, cement, etc., for the purpose of coloring, hardening, etc., the setting. 174,470; Oct. 16; Serial No. 170,148; published July 3, 1923.

Maxwell, R. G., & Co., London, England, and Hawick, Scotland. Piece goods of wool, worsted, or hair. 174,499; Oct. 16; Serial No. 181,605; published July 24, 1923.

Mengo Products Company, Pittsburgh, Pa. Adhesive patches. 174,456; Oct. 16; Serial No. 150,871; published June 26, 1923.

Mid-Continent Clay Company. (See Esperson, Niels.)

Mihalovitch Co., The, Cincinnati, Ohio. Rubbing and massage alcohol, skin cleanser, hair tonic, and after-shaving lotion. 174,475; Oct. 16; Serial No. 178,267; published July 17, 1923.

Miller, George M., Brooklyn, N. Y. Liquid, cream, and pomade hair dressings. 174,358; Oct. 16; Serial No. 176,905; published July 17, 1923.

Moomaw, Paul W., Okemah, Okla. Liver pills. 174,524; Oct. 16; Serial No. 177,097; published July 24, 1923.

Nathan and Cohen Co., Inc., New York, N. Y. Cotton piece goods. 174,536; Oct. 16.

New Method Die & Cut-Out Co., Inc., Boston, Mass. Cardboard easels for supporting advertising cards. 174,502; Oct. 16; Serial No. 181,304; published July 24, 1923.

Northern Equipment Company, Erie, Pa. Feed-water regulators and pump governors. 174,511; Oct. 16; Serial No. 178,625; published July 24, 1923.

Northern Paper Mills, Green Bay, Wis. Toilet paper. 174,504; Oct. 16; Serial No. 180,717; published July 24, 1923.

Northwestern Yeast Company, Chicago, Ill. Yeast vitamine product used as a tonic. 174,353; Oct. 16; Serial No. 177,318; published July 17, 1923.

Nu-Ka-Na Remedy Co. (See Rett, William F.)

Ortho Manufacturing Company, Inc., New York, N. Y. Liquid dentifrice, a pharmaceutical preparation. 174,474; Oct. 16; Serial No. 178,276; published July 10, 1923.

Owen, C. M., Los Angeles, Calif. Tablets, lotions, silver-nitrate sticks, capsicum plasters, powders, etc. 174,514; Oct. 16; Serial No. 178,277; published July 24, 1923.

Pabst Corporation, Milwaukee, Wis. Cereal beverage and beer. 174,537; Oct. 16.

Pabst Corporation, Milwaukee, Wis. Malt cereal beverages sold as a soft drink. 174,542; Oct. 16.

Paine & Williams Company, The, Cleveland, Ohio. Rubber matting. 174,436; Oct. 16; Serial No. 178,060; published July 3, 1923.

Painters Supply Co. (See Drabek, Charles.)

Palmer, Walter C., doing business as W. R. Palmer & Co., Cincinnati, Ohio. Mops. 174,549; Oct. 16.

Parfumerie Lubin. (See Prot, Paul, & Cie.)

Parks & Bohne, Inc., St. Louis, Mo. Automobile transmission bands. 174,442; Oct. 16; Serial No. 176,645; published June 26, 1923.

Peak, William C., Chicago, Ill. Phonograph records. 174,422; Oct. 16; Serial No. 170,209; published June 26, 1923.

Perceval, C., New York, N. Y. Candy. 174,523; Oct. 16; Serial No. 177,048; published July 24, 1923.

Pneulec Machine Company Limited, The, Birmingham, England. Molding machines, core-making machines, sand mixing and conveying machines, etc. 174,513; Oct. 16; Serial No. 178,356; published July 24, 1923.

Pound, George H., doing business as Tress Laboratories, Los Angeles, Calif. Hair tonic. 174,473; Oct. 16; Serial No. 178,280; published July 10, 1923.

Powner, Charles T. Co., The, Chicago, Ill. Books and magazines. 174,543; Oct. 16.

Procter and Gamble Company, The, Cincinnati, Ohio. Glycerin. 174,327; Oct. 16; Serial No. 177,998; published July 17, 1923.

Prot, Paul, & Cie., doing business as Parfumerie Lubin, Paris, France. Perfumes, toilet waters, face powder, etc. 174,421; Oct. 16; Serial No. 170,086; published July 10, 1923.

Protection Tire & Rubber Company. (See Chadwin, Leo L.)

Pure Oil Company, Columbus, Ohio. Cylinder oil. 174,332; Oct. 16; Serial No. 178,121; published July 17, 1923.

Pure Oil Company, Columbus, Ohio. Lubricating oil for hand separators. 174,333; Oct. 16; Serial No. 178,123; published July 17, 1923.

Pure Oil Company, Columbus, Ohio. Graphite farm-machinery oil. 174,334; Oct. 16; Serial No. 178,124; published July 17, 1923.

Pure Oil Company, Columbus, Ohio. Farm-machinery-lubricating oil. 174,335; Oct. 16; Serial No. 178,125; published July 17, 1923.

Pure Oil Company, Columbus, Ohio. Axle grease. 174,336; Oct. 16; Serial No. 178,133; published July 17, 1923.

Pure Oil Company, Columbus, Ohio. Hard oil. 174,337; Oct. 16; Serial No. 178,134; published July 17, 1923.

Ragbag Sisters Company, The, Grand Rapids, Mich. Statuettes. 174,413; Oct. 16; Serial No. 174,638; published June 26, 1923.

Ray-Maling Co. Inc., Portland, Oreg. Canned fruits, berries, and vegetables. 174,487; Oct. 16; Serial No. 175,811; published July 24, 1923.

Rayward Engineering and Manufacturing Co., Philadelphia, Pa. Mechanical motive pedal control devices. 174,496; Oct. 16; Serial No. 179,012; published July 24, 1923.

Reese Chemical Company, The, Cleveland, Ohio. Remedy for the treatment of goiter. 174,401; Oct. 16; Serial No. 178,359; published July 17, 1923.

Respro Inc., Providence, R. I. Electrical insulating material. 174,452; Oct. 16. Serial No. 162,199; published June 26, 1923.

Rett, William F., doing business as Nu-Ka-Na Remedy Co., Roselle, N. J. Medicine known as a blood purifier and body builder. 174,472; Oct. 16; Serial No. 178,284; published July 17, 1923.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Cigarette paper. 174,501; Oct. 16; Serial No. 181,349; published July 24, 1923.

Rheumatism Company. (See Sheftel, Michael W.)

Richmond Cedar Works, Richmond, Va. Ice-cream freezers. 174,316; Oct. 16; Serial No. 177,694; published June 5, 1923.

Ridge, William F., doing business as Ridged Grip Company, Akron, Ohio. Grips for steering wheels of automobiles, etc. 174,462; Oct. 16; Serial No. 174,261; published July 17, 1923.

Ritter, Harry E., and Mary V. Gordon, Selinsgrove, Pa. Cancer salve. 174,357; Oct. 16; Serial No. 176,917; published July 10, 1923.

Röhm & Haas Aktiengesellschaft, Darmstadt, Germany. Glue and gelatine used in the manufacture of glue. 174,378; Oct. 16; Serial No. 164,196; published July 17, 1923.

Rose Cerate Company. (See Buchanan, E. Everett, jr.)

Safety Car Heating & Lighting Company, The, Orange, N. J., and New Haven, Conn. Electric-lighting systems for use on railroad passenger cars, electric fans, water coolers, and storage batteries. 174,453; Oct. 16; Serial No. 160,978; published June 26, 1923.

San Antonio Drug Co., San Antonio, Tex. Sirup for the relief of coughs, colds, and bronchitis. 174,361; Oct. 16; Serial No. 176,656; published July 10, 1923.

Sandvikens Jernverks Aktiebolag, Sandviken, Sweden. Springs and coil springs, hot-rolled and cold-drawn seamless steel tubing. 174,512; Oct. 16; Serial No. 178,572; published July 24, 1923.

Sanitary Grocery Co. Inc., Washington, D. C. Coffee. 174,384; Oct. 16; Serial No. 168,942; published Feb. 27, 1923.

Sar-A-Lee Company, The, Cleveland, Ohio. Food product used as a sandwich filler. 174,532; Oct. 16.

Schmidt-Holland Inc., New York, N. Y. Gut and metal strings for stringed musical instruments. 174,381; Oct. 16; Serial No. 161,652; published June 26, 1923.

Schoedinger, F. O., Columbus, Ohio. Roofing paint and paint enamel for furniture. 174,386; Oct. 16; Serial No. 172,185; published July 17, 1923.

Security Cement & Lime Co., Hagerstown, Md. Ground and hydrated lime. 174,447; Oct. 16; Serial No. 165,760; published July 3, 1923.

Seymour Manufacturing Company, The, Seymour, Conn. Metal electrodes. 174,408; Oct. 16; Serial No. 175,951; published June 26, 1923.

Sheffel, Michael W., doing business as Rheumatism Company, Stigler, Okla. Liniment for rheumatism, bruises, etc. 174,354; Oct. 16; Serial No. 177,111; published July 10, 1923.

Siren Mills Corporation, Chicago, Ill. Powder used in making chocolate sauces or sirups for food purposes. 174,521; Oct. 16; Serial No. 176,102; published July 24, 1923.

Slomon, Ira L., New York, N. Y. Glue products. 174,385; Oct. 16; Serial No. 171,555; published July 17, 1923.

Snow, Livingston, doing business as Livingston Snow Company, Quitman, Ga. Peanut butter. 174,527; Oct. 16; Serial No. 177,877; published July 24, 1923.

Societe Anonyme Parfumerie Violet, Paris, France. Perfumes, toilet waters, face, talcum, and sachet powders, etc. 174,484; Oct. 16; Serial No. 178,144; published July 17, 1923.

Sonnenschein, J., Hop Company, Inc., New York, N. Y. Hops. 174,390; Oct. 16; Serial No. 173,148; published July 17, 1923.

Southern Specialty Company, Thomasville, Ga. Insecticide. 174,397-8; Oct. 16; Serial Nos. 178,292-3; published July 10, 1923.

St. Firo Remedy Co., Newark, N. J. Healing creams for eczema. 174,346; Oct. 16; Serial No. 143,464; published July 17, 1923.

Standard Oil Company of New York, New York, N. Y. Petroleum oil. 174,387; Oct. 16; Serial No. 172,242; published July 17, 1923.

Standard Oil Company of New York, New York, N. Y. Petroleum jelly. 174,483; Oct. 16; Serial No. 178,146; published July 10, 1923.

Stein, Samuel F., Williamsport, Pa. Telephone instruments. 174,429; Oct. 16; Serial No. 179,971; published June 26, 1923.

Supplee-Biddle Hardware Company, Philadelphia, Pa. Phonographs, talking machines, and reproducers, horns, etc. 174,349; Oct. 16; Serial No. 140,683; published June 19, 1923.

Swartz Brothers, Chicago, Ill. Automobile and cycle tire boots and patches and patching material for rubber tires. 174,455; Oct. 16; Serial No. 158,900; published June 26, 1923.

Tarara, Paul L., St. Paul, Minn. Antiseptic foot powder. 174,330; Oct. 16; Serial No. 178,072; published July 17, 1923.

Teagle Company, The, Cleveland, Ohio. Telephone adapters for coupling telephone receivers to sound amplifiers. 174,427; Oct. 16; Serial No. 179,337; published June 26, 1923.

Thomas, Lillian S., doing business as Froidevaux Cie., New York, N. Y. Deodorant. 174,379; Oct. 16; Serial No. 163,011; published Aug. 22, 1922.

Tissuepkt Underwear Company, Indianapolis, Ind. Underwear. 174,546; Oct. 16.

Tramsak, John, Cleveland, Ohio. Preparation for the treatment of tuberculosis. 174,522; Oct. 16; Serial No. 177,026; published July 24, 1923.

Tress Laboratories. (See Pound, George H.)

Turner & Seymour Manufacturing Co., The, Torrington, Conn. Metal curtain rods. 174,505; Oct. 16; Serial No. 180,456; published July 24, 1923.

U. S. Tool Company, Inc., Newark, N. Y. Apparatus and appurtenances used in radiotelephony. 174,435; Oct. 16; Serial No. 178,783; published June 26, 1923.

Union Piano Company, doing business as Hall & Sons, Chicago, Ill. Pianos. 174,548; Oct. 16.

Union Steel Products Company Limited, The, Albion, Mich. Pie, cooky, and bread rack trucks, proof-box, doughtrough, etc., trucks. 174,328; Oct. 16; Serial No. 178,008; published July 17, 1923.

Union Sugar Company, San Francisco, Calif. Beet, cane, and maple sugar. 174,495; Oct. 16; Serial No. 178,310; published July 24, 1923.

United States Bronze Powder Works, Inc., New York, N. Y. Bronze powders and bronzing liquids. 174,489; Oct. 16; Serial No. 176,230; published July 24, 1923.

Voluma Corporation, The, Baltimore, Md. Talking machines, reproducers, recorders, and needles for talking machines, and parts thereof. 174,340; Oct. 16; Serial No. 155,328; published June 19, 1923.

Wardwell, Edward H., New York, N. Y. Shell. 174,369; Oct. 16; Serial No. 175,331; published July 17, 1923.

Warren & Bailey Co., Los Angeles, Calif. Belting, hose, packing. 174,465; Oct. 16; Serial No. 172,246; published July 17, 1923.

Washington County Canning Company, Eastport, Me. Canned blueberries. 174,534; Oct. 16.

Webster, William A., Company, The, Memphis, Tenn. Aspirin. 174,344; Oct. 16; Serial No. 152,294; published July 17, 1923.

Westcott, Slade and Balcom Company, Providence, R. I. Boat paint. 174,463; Oct. 16; Serial No. 178,647; published July 17, 1923.

Wickes Boiler Company, The, Saginaw, Mich. Steel boilers. 174,451; Oct. 16; Serial No. 162,860; published July 3, 1923.

Williams, Thomas S., Republic, Wash. Preparation for the removal of dandruff and the treatment of scalp and skin diseases. 174,415; Oct. 16; Serial No. 179,636; published July 17, 1923.

Willow Weaving Co. Inc., New York, N. Y. Cravats. 174,416; Oct. 16; Serial No. 179,576; published July 17, 1923.

Willson Goggles, Inc., Reading, Pa. Ophthalmic mountings and parts thereof. 174,417; Oct. 16; Serial No. 180,403; published July 17, 1923.

Wilson Brothers, Chicago, Ill. Hosiery. 174,350; Oct. 16; Serial No. 135,121; published July 17, 1923.

Wire Wheel Corporation of America, Buffalo, N. Y. Metal disk for motor vehicles and parts thereof. 174,434; Oct. 16; Serial No. 178,793; published July 17, 1923.

Wizard Lightfoot Appliance Company, St. Louis, Mo. Zinc-oxide pads. 174,399; Oct. 16; Serial No. 178,322; published July 10, 1923.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

American Manufacturing Co., Buffalo, N. Y. Varnole. For a Liquid for Cleaning and Preserving the Luster on Automobiles and Furniture. 26,490; Oct. 16.

American Printing Company, Fall River, Mass. Supertwist. For Cotton Piece Goods. 26,491; Oct. 16.

King, Frank O., Chicago, Ill. Skeezix. For Candy. 26,492; Oct. 16.

Maryland Pharmaceutical Company, The, Baltimore, Md. Rem. For a Medicine for Coughs. 26,493; Oct. 16.

Modesty Shadow Panel Co., New York, N. Y. Modesty Shadow Panel. For Undergarments for Women. 26,494; Oct. 16.

Moe-Bridges Company, Milwaukee, Wis. Wrought Iron Fixture. For Lighting Fixtures. 26,495; Oct. 16.

Moe-Bridges Company, Milwaukee, Wis. Solid Brass Fixture. For Lighting Fixtures. 26,496; Oct. 16.

Moe-Bridges Company, Milwaukee, Wis. Lamp. For Lamps. 26,497; Oct. 16.

Odorono Company, The, Cincinnati, Ohio. The every day under arm toilette. For a Vanishing-Cream Deodorant. 26,498; Oct. 16.

Valecia Evaporated Milk Co., Madison, Wis. Vap. For Sterilized Evaporated Pure Skimmed Milk. 26,499; Oct. 16.

Ward Baking Company, New York, N. Y. Ward's Diabetost Bread. For Bread. 26,500; Oct. 16.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Baby Lincoln Auto Co., San Antonio, Tex. Baby Lincoln. A Distinctive Motor Car. For Motor Cars. 6,928; Oct. 16.

Cream of Wheat Co., Minneapolis, Minn. Fifty-Fifty. For Wheat Breakfast Food. 6,929; Oct. 16.

Cream of Wheat Co., Minneapolis, Minn. A baby specialist's advice about the first solid food. For Wheat Breakfast Food. 6,930; Oct. 16.

Gude, O. J., Company, N. Y., New York, N. Y. A Good Complexion Comes From Within. For Bottled Milk. 6,931; Oct. 16.

Hills Bros., San Francisco, Calif. Correct taste strength & Flavor. For Coffee. 6,932; Oct. 16.

Karp, Joseph H., New York, N. Y. Bleacho For Bleaching Hair—Use Bleacho. For Hair Preparations. 6,933; Oct. 16.

Smith, Allen A., Company, The, Toledo, Ohio. 2/5. For Lumber. Also Doors, Windows, and Interior Finish. 6,934; Oct. 16.

Squibb, E. R., & Sons, New York, N. Y. The importance of One Short Word. For Drugs. 6,935; Oct. 16.

Squibb, E. R., & Sons, New York, N. Y. No one appreciates a pure talcum as does the nurse. For Talcum Powder. 6,936; Oct. 16.

Squibb, E. R., & Sons, New York, N. Y. Different from All Others. For Dental Cream. 6,937; Oct. 16.

Squibb, E. R., & Sons, New York, N. Y. A Message to Nurses. For Nursery Powder. 6,938; Oct. 16.

Squibb, E. R., & Sons, New York, N. Y. Squibb's Dental Cream. For Dental Cream. 6,939; Oct. 16.

Squibb, E. R., & Sons, New York, N. Y. Your whole life long—Acid-Erosion threatens at The Danger Line. For Dental Cream. 6,940; Oct. 16.

Squibb, E. R., & Sons, New York, N. Y. Dental Authorities say—Fight Acid-Erosion at "The Danger Line". For Dental Cream. 6,941; Oct. 16.

Squibb, E. R., & Sons, New York, N. Y. Acid-Erosion at The Danger Line. For Dental Cream. 6,942; Oct. 16.

Squibb, E. R., & Sons, New York, N. Y. Like no other talcum ever made! For Talcum. 6,943; Oct. 16.

Will & Baumer Candle Co. Inc., Syracuse, N. Y. Candles. For Candles. 6,944; Oct. 16.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abraham & Straus, Inc., New York, N. Y. Bobsleds. 181,580; Oct. 16.

Abrasive Company, Bridesburg, Philadelphia, Pa. Abrasive material for impregnating cement and composition floors, etc. 165,978; Oct. 16.

Ajello, Michele, Co. Inc., Brooklyn, N. Y. Canned olive oil. 179,448; Oct. 16.

Alloway Brothers, Nashville, Tenn. Butter, live and dressed poultry, and eggs. 181,100; Oct. 16.

Ambrite Products Company, Centralia, Wash. Cleaning and polishing compound for automobiles, etc. 182,530; Oct. 16.

American Mills Company, Atlanta, Ga. Wrapping twine. 184,808; Oct. 16.

American Wholesale Corporation, Baltimore and Cumberland, Md. Pyjamas and nightshirts. 128,994; Oct. 16.

Anderson Hosiery Mills, Anderson, S. C. Hosiery. 184,155; Oct. 16.

Aridor Company, The, Chicago, Ill. Air conditioning and cooling devices for use in show cases, etc. 179,511; Oct. 16.

Arnold, Cheney & Co., Inc., New York, N. Y. Cotton piece goods. 174,164; Oct. 16.

Asp Faysol Company, New York, N. Y. Mud salve and mud pack and mud-pack beautifier. 182,372; Oct. 16.

Associated Fruit Co., Los Angeles, Calif. Fresh grapes, citrons fruits, and cantaloupes. 182,645; Oct. 16.

Atkins, E. C., & Company, Indianapolis, Ind. Rubber belting. 180,577-8; Oct. 16.

Auto Specialties Manufacturing Co., San Francisco, Calif., and St. Joseph, Mich. Shock absorbers for automobiles. 154,718; Oct. 16.

Automatic Curtain Co. (See Warren, Clyde W.)

Baker, Hamilton & Pacific Company, San Francisco, Calif. Belt dressing, composite neat's-foot oil, pure neat's-foot oil, and razor strops. 184,955; Oct. 16.

Bankers Discount Corporation, Astoria, Oreg. Canned salmon. 180,828; Oct. 16.

Bantam Products Ltd., The, Farnley, Leeds, England. Tea and coffee. 179,580; Oct. 16.

Barden, Clifford A., Oberlin and Wakeman, Ohio. Seed corn. 181,928; Oct. 16.

Barker, C. B., & Co. Ltd., New York, N. Y. Sewing machine needles and machine knitting needles. 177,949; Oct. 16.

Barley Motor Car Company, Kalamazoo, Mich. Taxicabs. 182,123; Oct. 16.

Barnsdall Refining Company, Tulsa, Okla. Motor fuel oil. 153,234; Oct. 16.

Bates, C. J., & Son, Chester, Conn. Manicure files. 175,294; Oct. 16.

Battle Creek Food Company, The, Battle Creek, Mich. Special carbohydrate antitoxic food. 180,463; Oct. 16.

Baumgarten, Julius, & Söhne Vereinigte Papierwarenfabriken Kommanditgesellschaft. Letter papers and envelopes. 178,158; Oct. 16.

Beaumont, R. H., Company, Philadelphia, Pa. Screens for granular materials. 181,929; Oct. 16.

Beck, Wm. & Chas., Inc., Lawrence, Mass. Linen fire hose. 176,873; Oct. 16.

Beck, Wm. & Chas., Inc., Lawrence, Mass. Linen fire hose. 176,875; Oct. 16.

Bender, Edwin S., doing business as The Credo Check Company, Orange Cove, Calif. Checks. 184,707; Oct. 16.

Bishop & Babcock Company, The, Cleveland, Ohio. Thermostatic regulating or control valves. 180,095; Oct. 16.

Block, Sam'l M., New York, N. Y. Hair nets. 183,689; Oct. 16.

Blum, Simon, Incorporated, New York, N. Y. Men's and boys' sheep-lined coats and vests. 180,415; Oct. 16.

Bottomley, Margaret A., Fall River, Mass. Candy, ice cream, nut meats, etc. 159,995; Oct. 16.

Bowman, George H., Company, The, Cleveland, Ohio. Aluminum percolators. 183,643; Oct. 16.

Boyd, Abraham L., Sacramento, Calif. Candies and other sugar products. 173,697; Oct. 16.

Brighton Canning Company, Brighton, Iowa. Catchup and canned vegetables. 180,836; Oct. 16.

Bryant, Ernest R., Boston, Mass. Friction tape and splicing compound. 184,380; Oct. 16.

Butler, J. W., Paper Co., The, Chicago, Ill. Envelopes and paper for making same. 182,128; Oct. 16.

Butts & Miller Co. Inc., New York, N. Y. Egg and poultry cases. 183,136; Oct. 16.

California Toy Co. (See Fritz, Charles.)

Calumet Packing Co., Sheboygan, Wis. Canned peas. 167,383; Oct. 16.

Candy Sales Corporation, Brooklyn, N. Y. Chocolate-covered mints, chocolate-covered coconut cream bars, etc. 183,361; Oct. 16.

Canterbury Candy Makers, Inc., Seattle, Wash. Candy confections. 182,651; Oct. 16.

Carson Pirie Scott & Co., Chicago, Ill. Mercerized cotton batiste. 184,595; Oct. 16.

Carter Dry Goods Co., Louisville, Ky. Linoleum and oiled cloth. 183,517; Oct. 16.

Chase Companies, Inc., The, Waterbury, Conn. Brass pipe. 183,250; Oct. 16.

Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics. 185,202; Oct. 16.

Chertoff, Noah, New York, N. Y. Silk thread. 184,234; Oct. 16.

Club Aluminum Company, The, Cleveland, Ohio. Aluminum saucepans, roasters, casseroles, waffle molds, etc. 182,087; Oct. 16.

Cohen, Abraham, Baltimore, Md. Shortening. 147,093; Oct. 16.

Cohen, Joseph H., & Sons, New York, N. Y. Clothing for men. 181,246; Oct. 16.

Cola Genus Company, Jacksonville, Fla. Candy. 182,332; Oct. 16.

Colonial Works, Brooklyn, N. Y. Wall-paper size. 179,586; Oct. 16.

Columbia Tire Corporation, Portland, Oreg. Pneumatic and solid rubber tires for automobiles and rubber inner tubes for pneumatic tires. 182,136; Oct. 16.

Commonwealth Color & Chemical Co., Brooklyn, N. Y. Paint colors, sizings, etc. 179,360; Oct. 16.

Corn Products Refining Company, New York. Edible oil. 180,272; Oct. 16.

Corticelli Silk Company, The, Florence, Northampton, Mass. Hosiery. 184,385; Oct. 16.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Corticelli Silk Company, The, Florence, Northampton, Mass. Silk fabric. 184,388–9; Oct. 16.
Corticelli Silk Company, The, Florence, Northampton, Mass. Silk fabrics. 184,391; Oct. 16.
Crane, Clarence A., doing business as Crane Chocolate Company, Cleveland, Ohio. Candy. 183,023; Oct. 16.
Crawford McGregor & Canby Company, The, Dayton, Ohio. Golf clubs. 183,556; Oct. 16.
Credo Check Company, The. (See Bender, Edwin S.)
Cumpson-Doelman, Inc., Buffalo, N. Y. Canned vegetables, cocoa, rice, etc. 179,520; Oct. 16.
Curtis Emma E., Melrose, Mass. Semiliquid or viscous preparation for use as a frosting, icing, etc. 180,753; Oct. 16.
Dalley, F. F., Company, Inc., Buffalo, N. Y. Shoe polish and dressing. 183,140; Oct. 16.
Dalley, F. F., Company, Inc., Buffalo, N. Y. Shoe polish and dressing. 183,200; Oct. 16.
De Laney, Paul, Co. Inc., The, Brocton, N. Y. Fruit jams, preserves, jellies, marmalades, etc. 175,773; Oct. 16.
Denzer & Nathan, Inc., New York, N. Y. Cotton fabrics. 184,437–8; Oct. 16.
Dextra Manufacturing Co., Detroit, Mich. Vehicle jacks. 165,787; Oct. 16.
Diem & Wing Paper Co., The, Cincinnati, Ohio. Wrapping paper. 184,654; Oct. 16.
Diem & Wing Paper Co., The, Cincinnati, Ohio. Writing paper. 184,655; Oct. 16.
Diem & Wing Paper Co., The, Cincinnati, Ohio. Wrapping paper. 184,658; Oct. 16.
Door, Arthur E., & Co. Inc., Boston, Mass. Hams and bacons. 159,852; Oct. 16.
Druggists' Supply Corporation, New York, N. Y. Pencils. 184,070; Oct. 16.
Dual-Use Company, Knoxville, Tenn. Combined letter sheet and advertising folder. 182,503; Oct. 16.
Duluth Paper and Stationery Co., Duluth, Minn. Crape, toilet, and wrapping paper, tablets, and notebooks. 181,437; Oct. 16.
Eavenson, J., & Sons Incorporated, Philadelphia, Pa., and Camden, N. J. Soap. 183,263; Oct. 16.
Edwards, Perc, doing business as Standard Engineering & Lubricating Co., New York, N. Y. Leather lubricator or dressing. 182,237; Oct. 16.
Eglington, Ferdinand, Walsall, England. Bits, stirrups, spurs, etc. 180,368; Oct. 16.
Eiband, Ernest A., New Braunfels, Tex. Cushion for vehicles. 181,518; Oct. 16.
Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. 185,179; Oct. 16.
Erwin Cotton Mills Co., The, West Durham, N. C. Denims in the piece. 137,451; Oct. 16.
Evans and Barnhill, Inc., San Francisco, Calif. Farming implements. 182,407; Oct. 18.
Evansville Packing Company, The, Evansville, Ind. Hams, bacon, sausage, lard, etc. 179,931; Oct. 16.
Everett, Heaney & Co. Inc., New York, N. Y. Cotton print cloth in the piece. 170,571; Oct. 16.
F. & L. Tobacco Products Company. (See Zook, Charles A. B.)
Faber, A. W., Stein, near Nuremberg, Germany. Lead pencils, pencil holders, colored pencils, chalk, etc. 168,961; Oct. 16.
Fair, The, Chicago, Ill. Writing paper and envelopes. 182,793; Oct. 16.
Fairbanks, Douglas, Los Angeles, Calif. Racket game. 183,624; Oct. 16.
Fansteel Products Company, Inc., North Chicago, Ill. Poppet valves. 181,522; Oct. 16.
Farley Harvey Company, The, Boston, Mass. Linen and cotton cloths and woolen blankets. 183,203; Oct. 16.
Farley Harvey Company, The, Boston, Mass. Linen and cotton cloths and woolen blankets. 183,206; Oct. 16.
Farley Harvey Company, The, Boston, Mass. Linen and cotton cloths. 184,965; Oct. 16.
Federal Paper Board Company, Inc., Bogota, N. J. Paperboard for boxing and wrapping purposes. 184,443; Oct. 16.
Ford, John A., Chicago, Ill. Dry cleaner. 183,795; Oct. 16.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 185,112–13; Oct. 16.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 185,115–17; Oct. 16.
Fraser, Mary, Candies, Inc., doing business as Mary Fraser Candy Studio, Los Angeles, Calif. Candies. 179,366; Oct. 16.
Fritz, Charles, doing business as California Toy Co., Berkeley, Calif. Kites. 185,013; Oct. 16.
Frye, Robert B., Pueblo, Colo. Chemical composition for destroying rodents and other animal pests. 182,340; Oct. 16.
Furst-McNess Company, Freeport, Ill. Hard-water soap. 183,266; Oct. 16.
General Tobacco Company, Louisville, Ky., and Chicago, Ill. Cigarettes, cigars, and smoking tobacco. 184,334; Oct. 16.
General Tobacco Company, Louisville, Ky., and Chicago, Ill. Cigars, smoking and leaf tobacco. 184,336; Oct. 16.
Gibson, Geo. R., & Co., New York, N. Y. Tooth, complexion, and hand brushes. 184,496; Oct. 16.
Glibert, S. L., & Co. Inc., New York, N. Y. Knitted bathing suits, sweaters, jackets, and scarfs. 184,241; Oct. 16.
Glob-Artco. (See Ungar, Irwin K.)
Goldie Fruittine Co. (See Weinstein, Goldie.)
Goodyear Tire & Rubber Company, The, Akron, Ohio. Automobiles and motor trucks, etc. 168,483; Oct. 16.
Goodyear Tire & Rubber Company of California, Los Angeles, Calif. Elastic vehicle tires, auto tire flaps, reliners, strap-on boots. 144,811; Oct. 16.
Gorham Manufacturing Company, Providence, R. I. Jewelry and powder-puff boxes, vanity cases, desk sets, etc. 152,250; Oct. 16.
Graham, Rowe & Company, Inc., New York, N. Y. Salt cake. 182,375; Oct. 16.
Granite Cordage Company, Granite Falls and Hickory, N. C. Cords, twines, ropes, and lines. 185,578; Oct. 16.
Grant, W. T., Company, New York, N. Y. Safety pins. 181,830–1; Oct. 16.
Great Northern Fur Dyeing and Dressing Company. (See Pierini, Attilio.)
Gude Brothers, Kieffer Company, New York, N. Y. Butter. 174,441; Oct. 16.
Handipak Company, Salt Lake City, Utah. Auto road [illegible]s. 180,864; Oct. 16.
Harrington & Waring, New York, N. Y. Hosiery. 181,277; Oct. 16.
Haywood Publishing Company, La Fayette, Ind. Shipping tags. 184,448; Oct. 16.
Heidelberg, Wolff & Co., New York, N. Y. Overcoats, raincoats, sport suits, etc. 179,724; Oct. 16.
Heidelberg, Wolff & Co., New York, N. Y. Overcoats, smoking jackets, golf suits, etc. 179,726; Oct. 16.
Herron, James H., Company, The, Cleveland, Ohio. Welding metal. 183,449–50; Oct. 16.
Heywood-Wakefield Company, Gardner, Mass. Bookcases, bedsteads, buffets, bureaus, etc. 171,459; Oct. 16.
Hijos de Ybarra, Seville, Spain. Olive oil. 182,501; Oct. 16.
Hillerich & Bradsby Co., Inc., Louisville, Ky. Baseball bats. 184,728; Oct. 16.
Hoffman, Samuel L., doing business as S. L. Hoffman & Co., New York, N. Y. Ginghams in the piece. 182,377; Oct. 16.
Hoffmaster, Harry E., Toledo, Ohio. General scouring preparation. 164,107; Oct. 16.
Hold-Pack Mfg Co. (See Morgan, Walter E.)
Holder, A. R., Abilene, Tex. Jelly soap. 182,971; Oct. 16.
Hooven & Allison Company, The, Xenia, Ohio. Java hemp-fiber rope. 159,868; Oct. 16.
Horlick's Malted Milk Company, Racine, Wis. Malted milk. 181,526; Oct. 16.
Hospital Specialty Co., The, Cleveland, Ohio. Sanitary napkins. 183,833; Oct. 16.
Howe Chain Company, Muskegon, Mich. Drive chains. 183,834; Oct. 16.
Hind & Harrison Plush Co., The, Clarks Mills and New York, N. Y. Plushes in the piece. 183,211; Oct. 16.
Hinton, Frank, Decatur, Ill. Soap paste. 181,396; Oct. 16.
Huntington Laboratories, Inc., Huntington, Ind. Liquid soap. 184,732–3; Oct. 16.
Hygienic Manufacturing Company, Chicago, Ill. Soaps. 181,400; Oct. 16.
Inwood Fruit Growers Club, Inwood, W. Va. Fresh apples. 172,333; Oct. 16.
Jacksonville Cracker Works, Jacksonville, Fla. Bakery and confectionery products. 181,751; Oct. 16.
Jacobs, H., & Sons, Inc., New York, N. Y. Sateen, cotton, and silk mixed piece goods and cotton piece goods. 183,526; Oct. 16.
Jameson, James W., doing business as Jameson Oil Company, Los Angeles, Calif. Gasoline. 181,996; Oct. 16.
Jath's Camphorub Company, Omaha, Nebr. Medicinal compound. 179,044; Oct. 16.
Julian Petroleum Corporation, Wilmington, Del., and Los Angeles, Calif. Gasoline, lubricating oils and greases. 184,406; Oct. 16.
Kanner, Samuel, doing business as Kanner Skirt Co., New York, N. Y. Skirts. 174,662; Oct. 16.
Kansas City Pure Food Co., Kansas City, Mo. Ice-cream cones. 160,887; Oct. 16.
Karaghensian, A. & M., Inc., New York, N. Y. Textile rugs. 184,912; Oct. 16.
Katz, B., & Son, New York, N. Y. Shopping bags. 185,467; Oct. 16.
Kearns Coal Company, The, Cincinnati, Ohio. Coal. 182,246; Oct. 16.
Keedy, Pfaff & Co., Inc., Baltimore, Md. Knitted underwear, hosiery, and neckties. 182,754; Oct. 16.
Keet & Roundtree Dry Goods Co., Springfield, Mo. Overalls, work shirts, jumpers, coats, and pants. 182,975; Oct. 16.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Kesting, Harry A., Kansas City, Mo. Pop corn. 182,420; Oct. 16.
Keystone Macaroni Manufacturing Company, Lebanon, Pa. Macaroni products. 181,129; Oct. 16.
Keystone Macaroni Manufacturing Company, Lebanon, Pa. Macaroni products. 181,131–3; Oct. 16.
Kopf Bros. Co., The, New Haven, Conn. Grapefruit. 183,451; Oct. 16.
Kops Bros., New York, N. Y. Corsets, brassières, and underwear. 184,247–8; Oct. 16.
Laminated Shim Company, Inc., Long Island City, N. Y. Shims and shim stock. 178,617; Oct. 16.
Le Boeuf Fountain Pen Company, Inc., Springfield, Mass. Fountain pens. 184,672; Oct. 16.
Lever Brothers Company, Cambridge, Mass. Soap. 182,855; Oct. 16.
Lijm-en-Gelatinefabriek-Delft, Delft, Netherlands. Gelatin used as a food or as ingredient of foods. 173,332; Oct. 16.
Litewear Manufacturing Company, Montgomery, Ala. Men's and boys' underwear of textile materials. 175,934; Oct. 16.
Litolff, Richard, doing business as Henry Litolff's Verlag, Brunswick, Germany. Sheet music and music books. 177,134; Oct. 16.
Lloyd Manufacturing Company, The, Menominee, Mich. Baby carriages, sulkies, and strollers. 149,089; Oct. 16.
McCormick, J. S., Company, The, Pittsburgh, Pa. Corn binder. 179,810; Oct. 16.
McDermott, John A., Chicago, Ill. Soap. 183,309; Oct. 16.
Madison, James, San Francisco, Calif. Canned fish. 175,611; Oct. 16.
Magnus, Joseph E., doing business as Puritan Malt Extract Co. (Not Inc.), Chicago, Ill. Malt extracts. 150,363; Oct. 16.
Mallinson, H. R., & Co. Inc., New York, N. Y. Clothing. 176,085; Oct. 16.
MalVaz Malt Extract Company, Chicago, Ill. Malt extracts for food purposes. 180,481; Oct. 16.
Mann, Clyde A., Chicago, Ill. Almanac and yearbook. 176,269; Oct. 16. 1923.
Marchiony, Italo, Hoboken, N. J. Ice-cream cones. 184,971; Oct. 16.
Marshall Field & Company, Chicago, Ill. Hosiery. 181,269; Oct. 16.
May Hosiery Mills, Inc., Burlington, N. C. Hosiery. 180,544; Oct. 16.
Meigs, Charles A., Fort Wayne, Ind. Ophthalmic lenses, eyeglasses, and spectacles. 183,076; Oct. 16.
Mercury Mills, Limited, Hamilton, Ontario, Canada. Knitted underwear. 181,137; Oct. 16.
Mine and Smelter Supply Company, The, Denver, Colo. Ore-mill and concentrating-table parts. 158,790; Oct. 16.
Minnesota Valley Canning Company, Le Sueur, Minn. Canned vegetables. 181,300; Oct. 16.
Morgan, Walter E., doing business as Hold-Pack Mfg. Co., Dayton, Tenn. Metal fasteners. 183,310; Oct. 16.
Motor Wheel Corporation, Lansing, Mich. Wheels for automobile vehicles. 177,191; Oct. 16.
Mount Mansfield Maple Merchants. (See Pike, Frederick M.)
Mudge & Company, Chicago, Ill. Railway gasoline motor cars. 180,445; Oct. 16.
Mudge & Company, Chicago, Ill. Railway gasoline motor cars. 180,448; Oct. 16.
Mudge & Company, Chicago, Ill. Railway gasoline motor cars. 180,451; Oct. 16.
Mueller Metals Company, Port Huron, Mich. Nonferrous metal tubing. 156,103; Oct. 16.
Mueller Metals Company, Port Huron, Mich. Castings of nonferrous metals. 183,662; Oct. 16.
National Hair Goods Co., New York, N. Y. Wigs. 182,764; Oct. 16.
National Packing Corporation, Ogden, Utah. Canned vegetables, fruits, tomato purée, and tomato catchup. 180,878; Oct. 16.
Nekoosa-Edwards Paper Company, The, Port Edwards, Wis. Wrapping paper. 184,746; Oct. 16.
Nelke Corporation, The, Philadelphia, Pa. Dolls. 183,936; Oct. 16.
New York Mackintosh Clothing Company, New York, N. Y. Raincoats. 167,734; Oct. 16.
Nichols Underwear Corporation, The, Bridgeport, Conn. Corsets, brassières, combination corsets and brassières, etc. 184,144; Oct. 16.
Northern Institute Co., The, Cleveland, Ohio. Instruction books, pamphlets, or folders. 180,488; Oct. 16.
Northern Paper Mills, Green Bay, Wis. Toilet paper. 184,350; Oct. 16.
Northern Paper Mills, Green Bay, Wis. Toilet paper. 184,352; Oct. 16.
Northern Paper Mills, Green Bay, Wis. Toilet paper. 184,354–5; Oct. 16.
Northern Paper Mills, Green Bay, Wis. Toilet paper. 184,358; Oct. 16.
Northern Paper Mills, Green Bay, Wis. Toilet paper. 184,360; Oct. 16.
Nunnally Company, The, Atlanta, Ga. Candies. 177,103; Oct. 16.
Oemler, Augustus, Savannah, Ga. Canned shrimp. 180,807; Oct. 16.
Orkin, William S., doing business as W. S. Orkin & Company, Boston, Mass. Pearls. 181,696; Oct. 16.
Packard Motor Car Company, Detroit, Mich. Tire covers. 180,385; Oct. 16.
Padin Brothers, New York, N. Y. Dress, negligee, and work shirts. 176,688; Oct. 16.
Parker-Bridget Company, Washington, D. C. Men's hose. 182,929; Oct. 16.
Parr, Joseph A., Manchester, N. H. Medicinal preparation for cough, sore throat, etc. 182,439; Oct. 16.
Partridge, Singer & Baldwin, Inc., Wilmington, Del., and New York, N. Y. Automobile transmission. 160,300; Oct. 16.
Pelican Bay Lumber Company, Klamath Falls, Oreg. Box shooks. 184,361–2; Oct. 16.
Peninsular Paper Company, Ypsilanti, Mich. Cover paper. 183,939; Oct. 16.
Perfection Rubber Company, The, Cleveland, Ohio. Rubber dolls. 184,363; Oct. 16.
Pickaninny Company, The, Baltimore, Md. Emulsion of pure olive oil and raisin juice. 182,223; Oct. 16.
Pierini, Attilio, doing business as Great Northern Fur Dyeing and Dressing Company, Brooklyn, N. Y. Skins and pelts. 178,768; Oct. 16.
Pike, Frederick M., doing business as Mount Mansfield Maple Merchants, Stowe, Vt. Maple sugar. 179,883; Oct. 16.
Pioneer Suspender Company, Philadelphia, Pa. Belt buckles. 180,191; Oct. 16.
Portage Shoe Mfg. Company, Portage, Wis. Shoe and leather preservative and dressing. 184,294; Oct. 16.
Portland Cordage Co., The, Portland, Oreg. Rope and twine. 184,100; Oct. 16.
Portland Cordage Co., The, Portland, Oreg. Twine. 185,187; Oct. 16.
Pray Candy Company, Inc., New York, N. Y. Candy. 146,591; Oct. 16.
Purdy, Fred A., New York, N. Y. Machines for printing, issuing, and auditing tickets. 167,896; Oct. 16.
Puritan Knitting Mills, Philadelphia, Pa. Sweaters, scarfs, bathing suits, etc. 177,690; Oct. 16.
Puritan Malt Extract Co. (See Magnus, Joseph E.)
R. & W. Products Co., Milwaukee, Wis. Dessert pudding powders. 162,267; Oct. 16.
Randazzo Macaroni Mfg. Co., St. Louis, Mo. Macaroni, spaghetti, noodles, etc. 156,862; Oct. 16.
Rannou, Alexandre & Cie., Marseille, France. Dates. 174,847; Oct. 16.
Red Mill Hosiery Company, Inc., Philadelphia, Pa. Hosiery, underwear, sweaters, and neckties. 182,770; Oct. 16.
Reed, Howard, Marysville, Calif. Fresh pears. 161,579; Oct. 16.
Remington Salt Company, Ithica, N. Y. Salt. 182,317; Oct. 16.
Renovatol Company, Philadelphia, Pa. Preparation adapted to be applied to brake bands, brake drums, clutches, belts, etc. 182,673; Oct. 16.
Rhodes, James H., & Company, Chicago, Ill. Pumice stone. 182,856–8; Oct. 16.
Richards-Scheble Candy Co., The, Hutchinson, Kans. Candy. 182,771; Oct. 16.
Roberts, Elbert C., doing business as E. C. Roberts Chemical Company, Newport News, Va. General household cleansing preparation, laundry soap, and soap chips. 175,270; Oct. 16.
Robertson Bleachery & Dye Works, Incorporated, The, New Milford, Conn. Cotton piece goods. 183,802–3; Oct. 16.
Roberston, Stelling Corporation, New York, N. Y. Automobiles, automobile chassis, and automobile accessories. 177,999; Oct. 16.
Robertson, Theo. B., Products Company, Chicago, Ill. Soap. 179,429; Oct. 16.
Roe, William G., Winterhaven, Fla. Fresh citrous fruits. 177,408; Oct. 16.
Rogers Candy Company, Meridian, Miss. Candy. 182,612–14; Oct. 16.
Rombro Brothers, Baltimore, Md. Work shirts. 183,633; Oct. 16.
Rose, E. B., Co., The, East Stroudsburg, Pa. Washing powder. 173,212; Oct. 16.
Rosenberg, M. H., & Co., New York, N. Y. Cotton piece goods. 172,806; Oct. 16.
Rosenthal, Robert, & Co., Inc., New York, N. Y. Silk and artificial-silk piece goods. 167,489; Oct. 16.
Royal Underwear Company, Reading, Pa. Women's knitted underwear. 183,670; Oct. 16.
Samstag & Hilder Bros., Inc., New York, N. Y. Hair nets. 184,798; Oct. 16.
Samuels, J., and Brother, Incorporated, Providence, R. I. Suits, overcoats, sweaters, hats, and caps for boys. 174,411; Oct. 16.
Sanderson, Arthur & Sons Limited, London, England. Cretonnes or printed fabrics. 181,617; Oct. 16.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Saulpaugh, Albert, doing business as Saulpaughs Candy Kitchen, Catskill, N. Y. Candy. 181,912; Oct. 16.
Schoellkopf Co., The, Dallas, Tex. Tanned harness, skirting, collar, etc., leather. 151,102; Oct. 16.
Schottland, A., Inc., Paterson, N. J. Cotton and silk crapes in the piece. 184,799–800; Oct. 16.
Scovil, Cora L., New York, N. Y. Aprons. 182,936; Oct. 16.
Sellers, Ben F., Yakima, Wash. Fresh apples and pears. 182,618; Oct. 16.
Sellmayer, Ludwig, doing business as L. Sellmayer & Sons, Baltimore, Md. Lard and lard substitutes and compounds. 179,696; Oct. 16.
Service Equipment Co., Inc., New York, N. Y. Sheetings and pillowcases. 183,237; Oct. 16.
Setaro, Joseph, Millbrook, N. Y. Dandruff remedy and hair dressing. 182,225; Oct. 16.
Snowolene Holding Company, Los Angeles, Calif. Petroleum product used for cleansing purposes. 184,088; Oct. 16.
Societe Francaise des Produits de Beaute, Paris, France. Perfumes, toilet water, face powder, etc. 182,385; Oct. 16.
Standard Engineering Lubricating Co. (See Edwards, Perc.)
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Candles. 165,826; Oct. 16.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Candles. 165,828; Oct. 16.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Candles. 165,830; Oct. 16.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Candles. 165,834; Oct. 16.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Petroleum jelly. 171,662; Oct. 16.
Standard Oil Company of New York, New York, N. Y. Candles. 183,045; Oct. 16.
Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum. 183,893; Oct. 16.
Stanley Works, The, New Britain, Conn. Butts, hinges, basps, latches, etc. 182,619; Oct. 16.
Stanley Works, The, New Britain, Conn. Hinges. 184,218–20; Oct. 16.
Stephenson, Nick S., doing business as Nick Stephenson & Co., Chicago, Ill. Cigarette paper. 184,771; Oct. 16.
Stevens Paper Mills, Inc., The, Windsor, Conn. Lightweight fiber board. 182,891; Oct. 16.
Stevens Paper Mills, Inc., The, Windsor, Conn. Paper for mechanical drawings. 182,893; Oct. 16.
Stewart-Warner Speedometer Corporation, Chicago, Ill. Instruments for indicating the temperature of internal-combustion engines and other mechanisms. 163,187; Oct. 16.
Stickel Company, Inc., The, Rochester, N. Y. Eyelash crimpers. 184,310; Oct. 16.
Stifel, J. L., & Sons, Wheeling, W. Va. Cotton piece goods. 184,367; Oct. 16.
Sweetman Company, Inc., The, St. Louis, Mo. Wax chewing gum. 161,587; Oct. 16.
Taunton Pearl Works, Inc., Taunton, Mass. Cuff and collar buttons, scarf pins, brooches, etc. 182,387; Oct. 16.
Taverner & Fricke, Los Angeles, Calif. Wrapping paper, toilet and wax paper. 185,163; Oct. 16.
Taylor, Thos. P., Co., The, Bridgeport, Conn. Children's waists and underwear of knitted or textile fabrics. 184,222; Oct. 16.
Tissue Company, The, Saugerties, N. Y. Paper napkins. 183,896; Oct. 16.
Trident Traders, Inc., New York, N. Y. Animal products—namely, wool, hides, and skins. 182,021; Oct. 16.
Ungar, Irwin K., doing business as GlobArtco, Cincinnati, Ohio. Calendars, mailing cards, cut-out novelties. 164,206; Oct. 16.
Union Cutlery Co. Inc., Olean, N. Y. Knives, razors, and shears. 179,341; Oct. 16.
Union Cutlery Co. Inc., Olean, N. Y. Razor strops and hones. 181,623; Oct. 16.
United Brush Manufactories, New York, N. Y. Artists' paintbrushes. 185,390; Oct. 16.
United Chemical Companies, Kansas City, Mo. Preparation for cleansing and bleaching toilet bowls. 180,726; Oct. 16.
United States Playing Card Company, The, East Norwood, Cincinnati, Ohio. Playing cards. 184,269–71; Oct. 16.
Van Camp Sea Food Company, Los Angeles, Calif. Canned olives, grapefruit, pimientos, and spinach. 182,685; Oct. 16.
Vlachos, George, New York, N. Y. Preserved figs, sundried raisins, shelled nuts, etc. 180,913; Oct. 16.
Vogel's, F., Son and Company, Chicago, Ill. Aprons, dresses. 176,585; Oct. 16.
Wallerstein Bros., Paducah, Ky. Men's, boys', and children's suits, overcoats, and raincoats. 182,686; Oct. 16.
Warren, Clyde W., doing business as Automatic Curtain Co., Sauk Rapids, Minn. Porch shades. 179,905; Oct. 16.
Warren, Clyde W., doing business as Automatic Curtain Co., Sauk Rapids, Minn. Porch shades. 179,907; Oct. 16.
Warren Gear Products Company, Warren, Pa. Automobile transmission mechanisms. 162,232; Oct. 16.
Webber, Elwin C., doing business as Webber and Company, Los Angeles, Calif. Confection forming a sandwich. 180,035; Oct. 16.
Weinstein, Goldie, doing business as Goldie Fruittine Co., New York, N. Y. Beverage. 182,632; Oct. 16.
Western Pump Company, Davenport, Iowa. Liquid pumps, pumping systems, and parts of same. 157,788; Oct. 16.
Weston, Clifford L., doing business as C. L. Weston Co., Plainfield, N. J. Pure-fruit jelly compound. 182,731; Oct. 16.
Whitbeck, Laura K., Syracuse, N. Y. Textile underwear. 183,428; Oct. 16.
Whiting & Davis Company, Plainville, Mass. Mesh bags. 179,979; Oct. 16.
Wishnevitz, Jacob, New York, N. Y. Boys' and men's suits and overcoats. 179,251; Oct. 16.
Wolf, Joseph E., doing business as J. E. Wolf Advertising Co., Boston, Mass. Printing, stamping, embossing, lithographing, and engraving work in connection with stationery. 144,209; Oct. 16.
Woodward & Bowman, Norwood, Mass. Creepers, rompers, suits, and dresses. 176,393; Oct. 16.
World Color Printing Company, The, St. Louis, Mo. Title for cartoons. 182,390–1; Oct. 16.
Wortendyke Manufacturing Co., Richmond, Va. Paper bags. 183,546; Oct. 16.
Worthy Manufacturing Company, Chicago, Ill. Work shirts. 184,313; Oct. 16.
Zook, Charles A. B., doing business as F. & I. Tobacco Products Company, Lancaster, Pa. Fertilizers. 184,884; Oct. 16.
Zook, Charles A. B., doing business as F. & I. Tobacco Products Company, Lancaster, Pa. Fertilizers. 184,886; Oct. 16.
Zurkow & Graff, New York, N. Y. Men's and boys' overcoats, coats, vests, and trousers. 181,664; Oct. 16.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Calfskins, Finished upper-leather. C. D. Brown & Co. 174,481–2; Oct. 16; Serial Nos. 178,160–1; published July 17, 1923.
Coal. Harrisburg Coal Mining Company. 174,444; Oct. 16; Serial No. 176,624; published July 17, 1923.
Hops. J. Sonnenschein Hop Company. 174,390; Oct. 16; Serial No. 173,148; published July 17, 1923.
Leather. Kistler Leather Company. 174,407; Oct. 16; Serial No. 175,991; published July 3, 1923.
Shell. E. H. Wardwell. 174,369; Oct. 16; Serial No. 175,331; published July 17, 1923.
Trees, plants, shrubs, and bushes. F. M. Edwards. 174,414; Oct. 16; Serial No. 178,831; published July 17, 1923.

CLASS 2.

Boxes, Tobacco, cigar, and cigarette. Lebwohl & Mindich. 174,375; Oct. 16; Serial No. 166,950; published July 17, 1923.
Tanks, Septic. Keynote Manufacturing Co. 174,363; Oct. 16; Serial No. 176,480; published July 17, 1923.

CLASS 5.

Glue and gelatins. Röhm & Haas Aktiengesellschaft. 174,378; Oct. 16; Serial No. 164,196; published July 17, 1923.
Glue products. I. I. Sloman. 174,385; Oct. 16; Serial No. 171,555; published July 17, 1923.

CLASS 6.

Alcohol, skin cleanser, hair tonic, etc., Rubbing and massage. Mihalovitch Co. 174,475; Oct. 16; Serial No. 178,267; published July 17, 1923.
Aspirin. William A. Webster Company. 174,344; Oct. 16; Serial No. 152,294; published July 17, 1923.
Balm and tablets for disorders of the liver and bowels, Pile. A. W. Bishop. 174,360; Oct. 16; Serial No. 176,710; published July 10, 1923.

Butter coloring. Dyestuffs & Chemicals, Incorporated. 174,359; Oct. 16; Serial No. 176,790; published July 17, 1923.
Chemical preparations. Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. 174,373; Oct. 16; Serial No. 167,842; published July 17, 1923.
Chemical products. Farbwerke vorm. Meister Lucius & Brüning. 174,376; Oct. 16; Serial No. 165,584; published July 10, 1923.
Cod-liver oil. J. Didrichsen. 174,520; Oct. 16; Serial No. 175,715; published July 24, 1923.
Cough drops and lozenges. G. J. Bolduc. 174,356; Oct. 16; Serial No. 177,032; published July 10, 1923.
Creams for eczema, Healing. St. Firo Remedy Co. 174,346; Oct. 16; Serial No. 143,464; published July 17, 1923.
Dentifrice, Liquid. Ortho Manufacturing Company. 174,474; Oct. 16; Serial No. 178,276; published July 10, 1923.
Deodorant. L. S. Thomas. 174,379; Oct. 16; Serial No. 163,011; published Aug. 22, 1922.
Glycerin. Procter and Gamble Company. 174,327; Oct. 16; Serial No. 177,998; published July 17, 1923.
Hair dressing. S. S. Levy. 174,322; Oct. 16; Serial No. 177,854; published July 10, 1923.
Hair dressings, Liquid, cream, and pomade. G. M. Miller. 174,358; Oct. 16; Serial No. 176,905; published July 17, 1923.
Hair grower. I. McKoin. 174,323; Oct. 16; Serial No. 177,858; published July 17, 1923.
Hair tonic. G. H. Pound. 174,473; Oct. 16; Serial No. 178,280; published July 10, 1923.
Insecticide. American Insecticide Co. 174,320; Oct. 16; Serial No. 177,758; published July 10, 1923.
Insecticide. Southern Specialty Company. 174,397–8; Oct. 16; Serial Nos. 178,292–3; published July 10, 1923.
Insecticides. I. Hollander. 174,402; Oct. 16; Serial No. 178,388; published July 17, 1923.
Laxative preparations. J. F. Hrejsa. 174,326; Oct. 16; Serial No. 177,972; published July 17, 1923.
Liniment. M. W. Sheffiel. 174,354; Oct. 16; Serial No. 177,111; published July 10, 1923.
Medical preparation. Eli Lilly & Company. 174,383; Oct. 16; Serial No. 159,212; published July 17, 1923.
Medicine for rheumatism and backache. L. Kaletzky. 174,400; Oct. 16; Serial No. 178,344; published July 17, 1923.
Medicine known as a blood purifier and body builder. W. F. Rett. 174,472; Oct. 16; Serial No. 178,284; published July 17, 1923.
Medicine, Poultry. C. J. Martin. 174,423; Oct. 16; Serial No. 170,943; published Aug. 7, 1923.
Moth preventive. W. R. Griffin. 174,374; Oct. 16; Serial No. 167,720; published July 17, 1923.
Oils, Essential. Essential Oil Company. 174,329; Oct. 16; Serial No. 178,030; published July 10, 1923.
Ointment for nervous itching and a general healing ointment. J. D. Brown. 174,395; Oct. 16; Serial No. 174,765; published July 17, 1923.
Perfumes, toilet waters, face powder, etc. Paul Prot & Cie. 174,421; Oct. 16; Serial No. 170,086; published July 10, 1923.
Perfumes, toilet waters, face powders, etc. Societe Anonyme Parfumeric Violet. 174,484; Oct. 16; Serial No. 178,144; published July 17, 1923.
Petroleum jelly. Standard Oil Company of New York. 174,483; Oct. 16; Serial No. 178,146; published July 10, 1923.
Pills, Cod-liver-oil. Jenquins Laboratories. 174,476; Oct. 16; Serial No. 178,252; published July 10, 1923.
Pills, Liver. P. W. Moomaw. 174,524; Oct. 16; Serial No. 177,097; published July 24, 1923.
Powder, Antiseptic foot. P. L. Tarara. 174,330; Oct. 16; Serial No. 178,072; published July 17, 1923.
Preparation for bathing and massaging. F. Bornn. 174,393; Oct. 16; Serial No. 174,425; published July 17, 1923.
Preparation for the hair and scalp. G. P. Haldy. 174,319; Oct. 16; Serial No. 177,737; published July 10, 1923.
Preparation for the prevention and treatment of sunburn. Abbott Laboratories. 174,510; Oct. 16; Serial No. 179,914; published July 24, 1923.
Preparation for the relief of headache, pain, etc. Ethicus Prompt Treatment Kit, Inc. 174,317; Oct. 16; Serial No. 177,729; published July 10, 1923.
Preparation for the removal of dandruff, and treatment of scalp and skin diseases. T. S. Williams. 174,415; Oct. 16; Serial No. 179,636; published July 17, 1923.
Preparation for the treatment of headache, neuralgia, neuritis, cold, etc. Gilbert Bros. & Co. 174,341; published Mar. 28, 1922.
Preparation for the treatment of tuberculosis. J. Tramsak. 174,522; Oct. 16; Serial No. 177,026; published July 24, 1923.
Preparation for the hair. Aktiengesellschaft für chemische Produkte vormals H. Scheidemandel. 174,404; Oct. 16; Serial No. 171,566; published July 17, 1923.
Preparations for treatment of constipation and its symptoms. Gotham Corporation. 174,355; Oct. 16; Serial No. 177,040; published July 10, 1923.
Remedy for the treatment of goiter. Reese Chemical Company. 174,401; Oct. 16; Serial No. 178,359; published July 17, 1923.
Salve. A. J. Baur. 174,544; Oct. 16.
Salve, Antiseptic. E. E. Buchanan, jr. 174,545; Oct. 16.
Salve, Cancer. Harry E. Ritter and Mary V. Gordon. 174,357; Oct. 16; Serial No. 176,917; published July 10, 1923.
Shampoo, scalp, and hair oils, etc. Hall, Thralls & Co. 174,368; Oct. 16; Serial No. 175,555; published July 10, 1923.
Sirups for the relief of coughs, colds, and bronchitis. San Antonio Drug Co. 174,361; Oct. 16; 176,656; published July 10, 1923.
Tablets and salve for hemorrhoids. Cumberland Chemical Co. 174,479; Oct. 16; Serial No. 178,167; published July 10, 1923.
Tablets, lotions, silver-nitrate sticks, capsicum plasters, powders, etc. C. M. Owen. 174,514; Oct. 16; Serial No. 178,277; published July 24, 1923.
Tonic compound. Cumberland Chemical Co. 174,480; Oct. 16; Serial No. 178,166; published July 10, 1923.
Tonics, Female general. H. S. Gilbert. 174,318; Oct. 16; Serial No. 177,733; published July 10, 1923.
Tooth paste, mouth wash, gum massage, etc. Edral Company. 174,478; Oct. 16; Serial No. 178,238; published July 17, 1923.
Yeast vitamine product. Northwestern Yeast Company. 174,353; Oct. 16; Serial No. 177,318; published July 17, 1923.
Zinc-oxide pads. Wizard Lightfoot Appliance Company. 174,399; Oct. 16; Serial No. 178,322; published July 10, 1923.

CLASS 8.

Cigarette paper. R. J. Reynolds Tobacco Company. 174,501; Oct. 16; Serial No. 181,349; published July 24, 1923.

CLASS 12.

Asphalt and paving materials containing asphalt. Barber Asphalt Paving Company. 174,450; Oct. 16; Serial No. 163,965; published July 3, 1923.
Bricks and roofing tile, Building. N. Esperson. 174,466; Oct. 16; Serial No. 171,586; published July 3, 1923.
Lime, Ground and hydrated. Security Cement & Lime Co. 174,447; Oct. 16; Serial No. 165,760; published July 3, 1923.
Limestone, chalk whiting, chalk, asphalt filler, and whiting, Ground. Krippendorf-Tuttle White Cliffs Products Co. 174,406; Oct. 16; Serial No. 176,482; published July 3, 1923.
Lumber. W. L. Kann. 174,412; Oct. 16; Serial No. 174,661; published June 26, 1923.
Material, Composite. Continental Fibre Company. 174,392; Oct. 16; Serial No. 174,236; published July 17, 1923.
Preparations to be incorporated with mortar, cement, etc., for the purpose of coloring, hardening, etc., the setting. Master Builders Company. 174,470; Oct. 16; Serial No. 170,148; published July 3, 1923.

CLASS 13.

Antiskid chains for vehicle wheels. American Chain Company. 174,342; Oct. 16; Serial No. 155,005; published June 6, 1922.
Curtain rods, Metal. Turner & Seymour Manufacturing Co. 174,505; Oct. 16; Serial No. 180,456; published July 24, 1923.
Screens and strainers, Well. J. H. McEvoy. 174,485–6; Oct. 16; Serial Nos. 175,564–5; published July 24, 1923.
Springs and coil springs, seamless steel tubing. Sandvikens Jernverks Aktiebolag. 174,512; Oct. 16; Serial No. 178,572; published July 24, 1923.
Tire chains. Columbus McKinnon Chain Company. 174,497; Oct. 16; Serial No. 179,031; published July 24, 1923.
Valves for pipe lines and the like, Metal. Detroit Lubricator Company. 174,509; Oct. 16; Serial No. 179,929; published July 24, 1923.
Water regulators and pump governors, Feed-. Northern Equipment Company. 174,511; Oct. 16; Serial No. 178,625; published July 24, 1923.

CLASS 14.

Castings, Copper-nickel-alloy. Manning, Maxwell & Moore, Inc. 174,493; Oct. 16; Serial No. 177,565; published July 24, 1923.

CLASS 15.

Fuels, Motor. F. J. Abbott. 174,418; Oct. 16; Serial No. 180,406; published July 17, 1923.
Grease, Axle. Pure Oil Company. 174,336; Oct. 16; Serial No. 178,133; published July 17, 1923.
Oil, Cylinder. Pure Oil Company. 174,332; Oct. 16; Serial No. 178,121; published July 17, 1923.
Oil, Farm-machinery-lubricating. Pure Oil Company. 174,335; Oct. 16; Serial No. 178,125; published July 17, 1923.
Oil for hand separators, Lubricating. Pure Oil Company. 174,333; Oct. 16; Serial No. 178,123; published July 17, 1923.

Oil, Graphite farm-machinery. Pure Oil Company. 174,334; Oct. 16; Serial No. 178,124; published July 17, 1923.
Oil, Hard. Pure Oil Company. 174,337; Oct. 16; Serial No. 178,134; published July 17, 1923.
Oil, Petroleum. Standard Oil Company of New York. 174,387; Oct. 16; Serial No. 172,242; published July 17, 1923.

CLASS 16.

Bronze powders and bronzing liquids. United States Bronze Powder Works, Inc. 174,489; Oct. 16; Serial No. 176,230; published July 24, 1923.
Carbon black. Godfrey L. Cabot, Inc. 174,488; Oct. 16; Serial No. 176,065; published July 17, 1923.
Paint and paint enamel for furniture, Roofing. F. O. Schoedinger. 174,386; Oct. 16; Serial No. 172,185; published July 17, 1923.
Paint, Boat. Westcott, Slade and Balcom Company. 174,403; Oct. 16; Serial No. 178,647; published July 17, 1923.
Paint, Ready-mixed. American Asphalt Paint Co. 174,494; Oct. 16; Serial No. 178,017; published July 17, 1923.
Paints, varnishes, paint enamels. C. Drabek. 174,377; Oct. 16; Serial No. 165,858; published July 17, 1923.
Polish, Furniture and automobile. Larson-Sorahan Co. 174,492; Oct. 16; Serial No. 177,563; published July 17, 1923.

CLASS 19.

Airships, balloons, kites, aviation and aeronautical accessories. Goodyear Tire & Rubber Company. 174,449; Oct. 16; Serial No. 164,498; published July 3, 1923.
Automobile accessories, Fabric covers for. Atlas Specialty Manufacturing Company. 174,463; Oct. 16; Serial No. 174,057; published July 17, 1923.
Automobiles and other vehicles, Grips for steering wheels of. W. F. Ridge. 174,462; Oct. 16; Serial No. 174,261; published July 17, 1923.
Automobiles, Glass curtain lights and frames for. E. W. Hornung. 174,445; Oct. 16; Serial No. 169,904; published July 17, 1923.
Cars, Motor. Ford Motor Company. 174,471; Oct. 16; Serial No. 170,014; published July 17, 1923.
Rowboats, Sheet-metal sectional. Alfred C. Goethel Co. 174,405; Oct. 16; Serial No. 176,617; published July 17, 1923.
Trucks. Chase Foundry and Manufacturing Company. 174,448; Oct. 16; Serial No. 165,668; published July 3, 1923.
Trucks, Pie, cooky, and bread rack, proof-box, etc. Union Steel Products Company. 174,328; Oct. 16; Serial No. 178,008; published July 17, 1923.
Vehicles and parts thereof, Metal disk for motor. Wire Wheel Corporation of America. 174,434; Oct. 16; Serial No. 178,793; published July 17, 1923.
Wheels of automobiles and industrial cars. Ellis Resilient Wheel Corporation. 174,477; Oct. 16; Serial No. 178,239; published July 17, 1923.

CLASS 21.

Batteries, Storage. Brown & Sehler Company. 174,433; Oct. 16; Serial No. 178,816; published June 26, 1923.
Brushes, Electrically-operated vacuum. F. W. Finkhousen. 174,539; Oct. 16.
Cranes, hoists, trolleys, Electric traveling. Euclid Crane and Hoist Company. 174,530; Oct. 16.
Electric connectors, wiring outfits, etc. H. A. Douglas. 174,458; Oct. 16; Serial No. 142,829; published June 26, 1923.
Electric lighting systems for use on railroad passenger cars, electric fans, water coolers, and storage batteries. Safety Car Heating & Lighting Company. 174,453; Oct. 16; Serial No. 160,978; published June 26, 1923.
Electrical devices, Household. Allied Factories Corporation. 174,441; Oct. 16; Serial No. 177,118; published June 19, 1923.
Electrodes, Metal. Seymour Manufacturing Company. 174,408; Oct. 16; Serial No. 175,951; published June 26, 1923.
Hair-curling irons, Electric. W. T. Grant Company. 174,397; Oct. 16; Serial No. 175,656; published June 12, 1923.
Insulating material, Electrical. Respro Inc. 174,452; Oct. 16; Serial No. 162,199; published June 26, 1923.
Lamps, Guards for electric. Flexible Steel Lacing Co. 174,428; Oct. 16; Serial No. 179,190; published June 26, 1923.
Lamps, parts thereof, etc., Portable electric. American Electric Equipment Co. 174,410; Oct. 16; Serial No. 175,754; published July 10, 1923.
Lamps, parts thereof, etc., Portable electric. Home Lighting Equipment Corporation. 174,409; Oct. 16; Serial No. 175,792; published July 10, 1923.
Posts, Electrical binding. Marshall-Gerken Company. 174,464; Oct. 16; Serial No. 173,775; published June 12, 1923.
Radio apparatus. E. T. Cunningham. 174,343; Oct. 16; Serial No. 153,200; published June 26, 1923.
Radio frequency transformers. Brooklyn Metal Stamping Co. 174,540; Oct. 16.
Radio receiving sets, loud speakers, batteries, amplifying horns, etc. Lyradion Manufacturing Company. 174,370; Oct. 16; Serial No. 175,091; published June 26, 1923.
Radio telephone and telegraph apparatus. De Forest Radio Telephone and Telegraph Company. 174,446; Oct. 16; Serial No. 167,229; published June 26, 1923.
Radio telephone and telegraph receiving sets and transmitting sets and parts. De Forest Radio Telephone & Telegraph Company. 174,411; Oct. 16; Serial No. 175,472; published June 26, 1923.
Radiotelephony, Apparatus and appurtenances used in. U. S. Tool Company. 174,435; Oct. 16; Serial No. 178,783; published June 26, 1923.
Soldering iron, Electrical. Electric Heat Unit Co. 174,426; Oct. 16; Serial No. 179,402; published June 26, 1923.
Spotlights and light projectors. R. Golden. 174,430; Oct. 16; Serial No. 179,145; published June 26, 1923.
Telegraph apparatus. Kleinschmidt Electric Co. 174,371; Oct. 16; Serial No. 168,894; published June 12, 1923.
Telephone adapters for coupling telephone receivers to sound amplifiers. Teagle Company. 174,427; Oct. 16; Serial No. 179,337; published June 26, 1923.
Telephone instruments. S. F. Stein. 174,429; Oct. 16; Serial No. 179,971; published June 26, 1923.
Telephones, telephone receivers, transmitters, plugs, etc., Loud-speaking. Etna Radio Co. 174,440; Oct. 16; Serial No. 177,218; published June 19, 1923.
Thermionic detector, amplifier, and oscillator tubes. E. T. Cunningham. 174,432; Oct. 16; Serial No. 178,957; published June 26, 1923.

CLASS 22.

Fishing lines. Bosworth Line Co. 174,541; Oct. 16.

CLASS 23.

Molding and core making machines, vibrators, etc. Pneulec Machine Company. 174,513; Oct. 16; Serial No. 178,356; published July 24, 1923.
Pedal control devices, Mechanical motive. Rayward Engineering and Manufacturing Co. 174,496; Oct. 16; Serial No. 179,012; published July 24, 1923.

CLASS 26.

Ophthalmic mountings and parts thereof. Willson Goggles, Inc. 174,417; Oct. 16; Serial No. 180,403; published July 17, 1923.
Slides and motion-picture films, Positive projection. C. V. & R. Batigne. 174,490; Oct. 16; Serial No. 176,664; published July 24, 1923.

CLASS 28.

Jewelry. Marshall Field & Company. 174,382; Oct. 16; Serial No. 161,539; published Feb. 20, 1923.
Pearls. Indra Pearl Co. 174,424; Oct. 16; Serial No. 171,219; published Jan. 2, 1923.
Silver-plated articles. Lehman Bros. 174,351; Oct. 16; Serial No. 177,391; published May 29, 1923.

CLASS 29.

Brushes, Paint and shaving. Marshall-Wells Company. 174,503; Oct. 16; Serial No. 181,135; published July 24, 1923.
Mops. W. C. Palmer. 174,549; Oct. 16.

CLASS 31.

Ice-cream freezers. Richmond Cedar Works. 174,316; Oct. 16; Serial No. 177,694; published June 5, 1923.

CLASS 33.

Glass, Sheet. L. J. Houze Convex Glass Company. 174,500; Oct. 16; Serial No. 181,397; published July 24, 1923.

CLASS 34.

Boilers, Steel. Wickes Boiler Co. 174,451; Oct. 16; Serial No. 162,860; published July 3, 1923.
Cookstoves, ranges, etc. Hammer-Bray Company. 174,454; Oct. 16; Serial No. 160,604; published July 3, 1923.
Fire wagons, surface heaters, and melting kettles. Barber Asphalt Company. 174,469; Oct. 16; Serial No. 170,748; published June 26, 1923.
Kerosene-gas-making appliances. Gloria Light Co. 174,468; Oct. 16; Serial No. 171,123; published July 17, 1923.
Lamp shades, Metal. Eskilstuna Stålpressnings Aktiebolag. 174,461; Oct. 16; Serial No. 174,361; published June 26, 1923.
Lamp shades of fibrous material. R. Beardsley. 174,396; Oct. 16; Serial No. 171,997; published July 17, 1923.

CLASS 35.

Automobile and cycle tire boots and patches and patching material for rubber tires. Swartz Brothers. 174,455; Oct. 16; Serial No. 158,900; published June 26, 1923.
Automobile transmission bands. Parks & Bohne, Inc. 174,442; Oct. 16; Serial No. 176,645; published June 26, 1923.
Belting, hose, packing. Warren & Bailey Co. 174,465; Oct. 16; Serial No. 172,246; published July 17, 1923.

Belting, Leather. J. Bachmann. 174,438; Oct. 16; Serial No. 177,760; published July 3, 1923.
Cars, Transmission lining for Ford. Durwyllan Co. 174,535; Oct. 16.
Patches, Adhesive. Mengo Products Company. 174,456; Oct. 16; Serial No. 150,871; published June 26, 1923.
Tires and inner tubes, Rubber. L. L. Chadwin. 174,431; Oct. 16; Serial No. 179,030; published July 3, 1923.
Tires, Rubber and fabric. Brunswick-Balke-Collender Company. 174,437; Oct. 16; Serial No. 177,951; published July 17, 1923.

CLASS 36.

Harmonicas, Mouth. American Wholesale Corporation (Baltimore Bargain House). 174,389; Oct. 16; Serial No. 172,816; published June 19, 1923.
Musical instruments. C. Bruno & Son, Inc. 174,215; Oct. 16; Serial No. 177,543; published June 12, 1923.
Musical instruments, merchandise, and goods. Lyon & Healy. 174,345; Oct. 16; Serial No. 144,290; published June 12, 1923.
Musical instruments, Strings for stringed. Schmidt-Holland Inc. 174,381; Oct. 16; Serial No. 161,652; published June 26, 1923.
Phonograph records. W. C. Peak. 174,422; Oct. 16; Serial No. 170,209; published June 26, 1923.
Phonographs. Lyradion Manufacturing Company. 174,321; Oct. 16; Serial No. 177,790; published June 26, 1923.
Phonographs and phonograph accessories. S. Eshborn. 174,391; Oct. 16; Serial No. 173,702; published June 26, 1923.
Phonographs, talking machines, and reproducers, horns, etc. Supplee-Biddle Hardware Company. 174,349; Oct. 16; Serial No. 140,683; published June 19, 1923.
Pianos. Union Piano Company. 174,548; Oct. 16.
Talking machines, reproducers, recorders, etc. Voluma Corporation. 174,340; Oct. 16; Serial No. 155,328; published June 19, 1923.

CLASS 37.

Easels for supporting advertising cards, Cardboard. New Method Die & Cut-Out Co. 174,502; Oct. 16; Serial No. 181,304; published July 24, 1923.
Paper, cards, envelopes, etc., Correspondence. M. T. Bird. 174,425; Oct. 16; Serial No. 179,846; published June 19, 1923.
Paper, Toilet. Northern Paper Mills. 174,504; Oct. 16; Serial No. 180,717; published July 24, 1923.

CLASS 38.

Books and magazines. Charles T. Powner Co. 174,543; Oct. 16.

CLASS 39.

Aprons. R. H. Macy & Co. 174,394; Oct. 16; Serial No. 174,524; published July 17, 1923.
Collars. Cluett, Peabody & Company. 174,365; Oct. 16; Serial No. 176,451; published July 17, 1923.
Cravats. Willow Weaving Co. 174,416; Oct. 16; Serial No. 179,576; published July 17, 1923.
Hosiery. Gerson & Breyer. 174,491; Oct. 16; Serial No. 177,374; published July 24, 1923.
Hosiery. A. L. Horst. 174,362; Oct. 16; Serial No. 176,547; published July 17, 1923.
Hosiery. J. C. Larkin. 174,339; Oct. 16; Serial No. 155,895; published July 18, 1922.
Hosiery. Percy Friedlander and Albert Solomon. 174,347; Oct. 16; Serial No. 141,265; published Mar. 14, 1922.
Hosiery. Wilson Brothers. 174,350; Oct. 16; Serial No. 135,121; published July 17, 1923.
Hosiery and underwear. Jeanne Tournier, Inc. 174,538; Oct. 16.
Hosiery, underwear, sweaters, gloves, and mittens. E. Heathcote. 174,364; Oct. 16; Serial No. 176,465; published July 17, 1923.
Hosiery, Women's silk. Cohen Company. 174,508; Oct. 16; Serial No. 180,271; published July 24, 1923.
Overcoats and topcoats. Hickey-Freeman Co. 174,352; Oct. 16; Serial No. 177,377; published July 17, 1923.
Shirts, Men's dress, negligee, and work. I. H. Barnett & Brother. 174,380; Oct. 16; Serial No. 162,099; published Oct. 3, 1922.
Shirts, pyjamas, underwear, etc. S. J. Kohlenzer. 174,498; Oct. 16; Serial No. 179,153; published July 24, 1923.
Suits, coats, dresses, etc., Ladies'. I. Goldman. 174,547; Oct. 16.
Underwear. Tissuepkt Underwear Company. 174,546; Oct. 16.
Underwear and sleeping suits, misses' and children's knitted. Everett Knitting Works. 174,324; Oct. 16; Serial No. 177,904; published July 17, 1923.
Underwear of knitted and textile fabric for females. Martha Maid Manufacturing Company. 174,331; Oct. 16; Serial No. 178,084; published July 17, 1923.
Underwear, wrappers, and bands, Infants' knitted. Everett Knitting Works. 174,325; Oct. 16; Serial No. 177,903; published July 17, 1923.

CLASS 41.

Umbrellas and parasols. J. Grossman. 174,366; Oct. 16; Serial No. 176,342; published July 10, 1923.

CLASS 42.

Cotton piece goods. Nathan and Cohen Co. 174,536; Oct. 16.
Piece goods of wool, worsted, or hair. R. G. Maxwell & Co. 174,499; Oct. 16; Serial No. 181,605; published July 24, 1923.
Textile fabrics in the piece. Grove Park Inn, Inc. 174,528; Oct. 16.
Voile in the piece, Cotton. Marshall Field & Company. 174,531; Oct. 16.
Wool pile fabric. Botany Worsted Mills. 174,506–7; Oct. 16; Serial Nos. 180,358–9; published July 24, 1923.

CLASS 43.

Threads, Pure and artificial silk. H. K. H. Silk Co. 174,529; Oct. 16.

CLASS 44.

Bottles, fountain syringes, etc., Water. Independent Drug Company. 174,420; Oct. 16; Serial No. 181,279; published July 17, 1923.
Nail files, toilet tweezers, nail and cuticle nippers. Marshall Field & Company. 174,419; Oct. 16; Serial No. 181,270; published July 17, 1923.
Pads, elastic bandages, etc., Hip and kidney. James W. Brine Company. 174,388; Oct. 16; Serial No. 172,578; published July 17, 1923.

CLASS 46.

Beverage, Coffeelike. Kellogg Company. 174,517; Oct. 16; Serial No. 177,914; published July 24, 1923.
Candy. C. Perceval. 174,523; Oct. 16; Serial No. 177,048; published July 24, 1923.
Canned berries and fruits. G. H. Bradt. 174,533; Oct. 16.
Canned blueberries. Washington County Canning Company. 174,534; Oct. 16.
Canned fish. Jos. Garneau Co. 174,519; Oct. 16; Serial No. 175,080; published July 24, 1923.
Canned fruits, berries, and vegetables. Ray-Maling Co. 174,487; Oct. 16; Serial No. 175,811; published July 24, 1923.
Canned peas and tomatoes. Cincinnati Wholesale Grocery Company. 174,525; Oct. 16; Serial No. 177,360; published July 24, 1923.
Chocolate. Klein Chocolate Company. 174,348; Oct. 16; Serial No. 140,895; published Mar. 1, 1921.
Coffee. C. D. Kenny Company. 174,515; Oct. 16; Serial No. 178,257; published July 24, 1923.
Coffee. Sanitary Grocery Co. 174,384; Oct. 16; Serial No. 168,942; published Feb. 27, 1923.
Coffee and tea. Berdan Company. 174,372; Oct. 16; Serial No. 167,864; published Mar. 6, 1923.
Confection. H. P. Hood & Sons, Inc. 174,338; Oct. 16; Serial No. 158,234; published Dec. 5, 1923.
Fish cakes. Gorton-Pew Fisheries Company. 174,518; Oct. 16; Serial No. 177,909; published July 24, 1923.
Food product. V. Banos & Co. 174,516; Oct. 16; Serial No. 177,948; published July 24, 1923.
Food product used as a sandwich filler. Sar-A-Lee Company. 174,532; Oct. 16.
Ice cream. Hydrox Corporation. 174,526; Oct. 16; Serial No. 177,783; published July 24, 1923.
Peanut butter. L. Snow. 174,527; Oct. 16; Serial No. 177,877; published July 24, 1923.
Sauces or sirups, Powder used in making chocolate. Siren Mills Corporation. 174,521; Oct. 16; Serial No. 176,102; published July 24, 1923.
Sugar, Beet, cane, and maple. Union Sugar Company. 174,495; Oct. 16; Serial No. 178,310; published July 24, 1923.

CLASS 48.

Beverage and beer, Cereal. Pabst Corporation. 174,537; Oct. 16.
Beverages sold as a soft drink. Pabst Corporation. 174,542; Oct. 16.

CLASS 50.

Asbestos mats. Gillen-Cole Co. 174,467; Oct. 16; Serial No. 171,312; published July 3, 1923.
Bottles, jars, etc., Caps or closures for. George A. Haynes, Inc. 174,460; Oct. 16; Serial No. 180,762; published July 3, 1923.
Decorating outfits. R. F. Johnston Paint Company. 174,443; Oct. 16; Serial No. 176,631; published July 3, 1923.
Furniture moving pads, tents, tarpaulins, and awnings, etc. A. Bruns & Sons. 174,439; Oct. 16; Serial No. 177,544; published July 3, 1923.
Rubber matting. Paine & Williams Company. 174,436; Oct. 16; Serial No. 178,060; published July 3, 1923.
Shoe lasts, blind awnings, animal traps, etc. Baltimore Bargain House. 174,459; Oct. 16; Serial No. 117,793; published June 26, 1923.
Statuettes. Ragbag Sisters Company. 174,413; Oct. 16; Serial No. 174,638; published June 26, 1923.
Trunks, Waterproof cloth or fabric which forms the outside covering for. Hartmann Trunk Company. 174,457; Oct. 16; Serial No. 147,289; published June 26, 1923.

ALPHABETICAL LIST OF LABELS.

Lamp. For Lamps. Moe-Bridges Company. 26,497; Oct. 16.
Modesty Shadow Panel. For Undergarments for Women. Modesty Shadow Panel Co. 26,494; Oct. 16.
Rem. For a Medicine for Coughs. Maryland Pharmaceutical Company. 26,493; Oct. 16.
Skeezix. For Candy. F. O. King. 26,492; Oct. 16.
Solid Brass Fixture. For Lighting Fixtures. Moe-Bridges Company. 26,496; Oct. 16.
Supertwist. For Cotton Piece Goods. American Printing Company. 26,491; Oct. 16.
The every day under arm toilette. For a Vanishing-Cream Deodorant. Odorono Company. 26,498; Oct. 16.
Vap. For Sterilized Evaporated Pure Skimmed Milk. Valecia Evaporated Milk Co. 26,499; Oct. 16.
Varnole. For a Liquid for Cleaning and Preserving the Luster on Automobiles and Furniture. American Manufacturing Co. 26,490; Oct. 16.
Ward's Diabetost Bread. For Bread. Ward Baking Company. 26,500; Oct. 16.
Wrought Iron Fixture. For Lighting Fixtures. Moe-Bridges Company. 26,495; Oct. 16.

ALPHABETICAL LIST OF PRINTS.

A baby specialist's advice about the first solid food. For Wheat Breakfast Food. Cream of Wheat Co. 6,930; Oct. 16.
A Good Complexion Comes From Within. For Bottled Milk. O. J. Gude Company, N. Y. 6,931; Oct. 16.
A Message to Nurses. For Nursery Powder. E. R. Squibb & Sons. 6,938; Oct. 16.
Acid-Erosion at The Danger Line. For Dental Cream. E. R. Squibb & Sons. 6,942; Oct. 16.
Baby Lincoln. A Distinctive Motor Car. For Motor Cars. Baby Lincoln Auto Co. 6,928; Oct. 16.
Bleacho For Bleaching Hair—Use Bleacho. For Hair Preparations. J. H. Karp. 6,933; Oct. 16.
Candles. For Candles. Will & Baumer Candle Co. 6,944; Oct. 16.
Correct taste strength & Flavor. For Coffee. Hills Bros. 6,932; Oct. 16.
Dental Authorities say—Fight Acid-Erosion at "The Danger Line." For Dental Cream. E. R. Squibb & Sons. 6,941; Oct. 16.
Different from All Others. For Dental Cream. E. R. Squibb & Sons. 6,937; Oct. 16.
Fifty-Fifty. For Wheat Breakfast Food. Cream of Wheat Co. 6,929; Oct. 16.
Like no other talcum ever made! For Talcum. E. R. Squibb & Sons. 6,943; Oct. 16.
No one appreciates a pure talcum as does the nurse. For Talcum Powder. E. R. Squibb & Sons. 6,936; Oct. 16.
Squibb's Dental Cream. For Dental Cream. E. R. Squibb & Sons. 6,939; Oct. 16.
The importance of One Short Word. For Drugs. E. R. Squibb & Sons. 6,935; Oct. 16.
2/5. For Lumber, Also Doors, Windows, and Interior Finish. Allen A. Smith Company. 6,934; Oct. 16.
Your whole life long—Acid-Erosion threatens at The Danger Line. For Dental Cream. E. R. Squibb & Sons. 6,940; Oct. 16.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 1.

Cement and composition floors, etc., Abrasive material for impregnating. Abrasive Company. 165,978; Oct. 16.
Coal. Kearns Coal Company. 182,246; Oct. 16.
Core binder. J. S. McCormick Company. 179,810; Oct. 16.
Corn. Seed. C. A. Barden. 181,928; Oct. 16.
Leather. Schoellkopf Co. 151,102; Oct. 16.
Skins and pelts. A. Pierini. 178,768; Oct. 16.
Wool, hides, and skins. Trident Traders, Inc. 182,021; Oct. 16.

CLASS 2.

Bags, Shopping. B. Katz & Son. 185,467; Oct. 16.
Box shooks. Pelican Bay Lumber Company. 184,361–2; Oct. 16.
Egg and poultry cases. Butts & Miller Co. 183,136; Oct. 16.
Paper bags. Wortendyke Manufacturing Co. 183,546; Oct. 16.

CLASS 3.

Bits, stirrups, spurs, etc. F. Eglington. 180,368; Oct. 16.

CLASS 4.

Belt dressing, Composite neat's-foot oil, pure neat's-foot oil, and razor strop. Baker, Hamilton & Pacific Company. 184,955; Oct. 16.
Cleaner, Dry. J. A. Ford. 183,795; Oct. 16.
Cleansing preparation, laundry soap, and soap chips, General household. E. C. Roberts. 175,270; Oct. 16.
Lubricator or dressing, Leather. P. Edwards. 182,237; Oct. 16.
Petroleum product. Snowolene Holding Company. 184,688; Oct. 16.
Polish and dressing, Shoe. F. F. Dalley Company. 183,140; Oct. 16.
Polish and dressing, Shoe. F. F. Dalley Company. 183,200; Oct. 16.
Preparation adapted to be applied to brake bands, brake drums, clutches, belts, etc. Renovatol Company. 182,673; Oct. 16.
Preparation for cleansing and bleaching toilet bowls. United Chemical Companies. 180,726; Oct. 16.
Pumice stone. James H. Rhodes & Company. 182,856–8; Oct. 16.
Razor strops and hones. Union Cutlery Co. 181,623; Oct. 16.
Scouring preparation, General. H. E. Hoffmaster. 164,107; Oct. 16.
Shoe and leather preservative and dressing. Portage Shoe Mfg. Company. 184,294; Oct. 16.
Soap. J. Eavenson & Sons, Incorporated. 183,263; Oct. 16.
Soap. Lever Brothers Company. 182,855; Oct. 16.
Soap. J. A. McDermott. 183,309; Oct. 16.
Soap. Theo. B. Robertson Products Company. 179,429; Oct. 16.
Soap, Hard-water. Furst-McNess Company. 183,266; Oct. 16.
Soap, Jelly. A. R. Holder. 182,971; Oct. 16.
Soap, Liquid. Huntington Laboratories, Inc. 184,732–3; Oct. 16.
Soap paste. F. Hinton. 181,396; Oct. 16.
Soaps. Hygienic Manufacturing Company. 181,400; Oct. 16.
Washing powder. E. B. Rose Co. 173,212; Oct. 16.

CLASS 5.

Paper size, Wall-. Colonial Works. 179,586; Oct. 16.
Tape and splicing compound, Friction. E. R. Bryant. 184,380; Oct. 16.

CLASS 6.

Chemical composition. R. B. Frye. 182,340; Oct. 16.
Dandruff remedy and hair dressing. J. Setaro. 182,225; Oct. 16.
Medicinal compound. Jath's Camphorub Company. 179,044; Oct. 16.
Medicinal preparation. J. A. Parr. 182,439; Oct. 16.
Oil and raisin juice, Emulsion of pure olive. Pickaninny Company. 182,223; Oct. 16.
Perfumes, toilet water, face powder, etc. Societe Francaise des Produits de Beaute. 182,385; Oct. 16.
Salt. Remington Salt Company. 182,317; Oct. 16.
Salt cake. Graham, Rowe & Company. 182,375; Oct. 16.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Salve and mud pack and mud-pack beautifier, Mud. Asp Faysol Company. 182,372; Oct. 16.

CLASS 7.

Cords, twines, ropes, and lines. Granite Cordage Company. 185,578; Oct. 16.
Rope and twine. Portland Cordage Co. 184,100; Oct. 16.
Rope, Java hemp-fiber. Hooven & Allison Company. 159,868; Oct. 16.
Twine. Portland Cordage Co. 185,187; Oct. 16.
Twine, Wrapping. American Mills Company. 184,808; Oct. 16.

CLASS 8.

Cigarette paper. N. S. Stephenson. 184,771; Oct. 16.

CLASS 10.

Fertilizers. C. A. B. Zook. 184,884; Oct. 16.
Fertilizers. C. A. B. Zook. 184,886; Oct. 16.

CLASS 13.

Butts, hinges, latches, etc. Stanley Works. 182,619; Oct. 16.
Chains, Drive. Howe Chain Company. 183,834; Oct. 16.
Hinges. Stanley Works. 184,218–20; Oct. 16.
Metal fasteners. W. E. Morgan. 183,310; Oct. 16.
Percolators, Aluminum. George H. Bowman Company. 183,643; Oct. 16.
Pipe, Brass. Chase Companies. 183,250; Oct. 16.
Saucepans, roasters, casseroles, waffle molds, etc., Alumtnum. Club Aluminum Company. 182,087; Oct. 16.
Tubing, Nonferrous metal. Mueller Metals Company. 156,103; Oct. 16.

CLASS 14.

Castings of nonferrous metals. Mueller Metals Company. 183,662; Oct. 16.
Shims and shim stock. Laminated Shim Company. 178,617; Oct. 16.
Welding metal. James H. Herron Company. 183,449–50; Oct. 16.

CLASS 15.

Candles. Standard Oil Company. 165,826; Oct. 16.
Candles. Standard Oil Company. 165,828; Oct. 16.
Candles. Standard Oil Company. 165,830; Oct. 16.
Candles. Standard Oil Company. 165,834; Oct. 16.
Candles. Standard Oil Company of New York. 183,045; Oct. 16.
Gasoline. J. W. Jameson. 181,996; Oct. 16.
Gasoline, lubricating oils and greases. Julian Petroleum Corporation. 184,406; Oct. 16.
Oil, Motor fuel. Barnsdall Refining Company. 153,234; Oct. 16.
Petroleum and products of petroleum. Standard Oil Company of New York. 183,893; Oct. 16.
Petroleum jelly. Standard Oil Company. 171,662; Oct. 16.

CLASS 16.

Cleaning and polishing compound. Ambrite Products Company. 182,530; Oct. 16.
Colors, etc., Paint Commonwealth Color & Chemical Co. 179,360; Oct. 16.

CLASS 17.

Cigarettes, cigars, and smoking tobacco. General Tobacco Company. 184,334; Oct. 16.
Cigars, smoking and leaf tobacco. General Tobacco Company. 184,336; Oct. 16.

CLASS 19.

Automobile vehicles, Wheels for. Motor Wheel Corporation. 177,191; Oct. 16.
Automobiles and motor trucks, etc. Goodyear Tire & Rubber Company. 169,483; Oct. 16.
Automobiles, chassis, and accessories. Robertson, Stelling Corporation. 177,999; Oct. 16.
Bobsleds, Abraham & Straus, Inc. 181,580; Oct. 16.
Carriages, sulkies, and strollers, Baby. Lloyd Manufacturing Company. 149,089; Oct. 16.
Cars, Railway gasoline motor. Mudge & Company. 180,445; Oct. 16.
Cars, Railway gasoline motor. Mudge & Company. 180,448; Oct. 16.
Cars, Railway gasoline motor. Mudge & Company. 180,451; Oct. 16.
Shock absorbers for automobiles. Auto Specialties Manufacturing Co. 154,718; Oct. 16.
Taxicabs. Barley Motor Car Company. 182,123; Oct. 16.
Vehicle cushion. E. A. Elband. 181,518; Oct. 16.

CLASS 20.

Linoleum and oiled cloth. Carter Dry Goods Co. 183,517; Oct. 16.

CLASS 22.

Bats, Baseball. Hillerich & Bradsby Co. 184,728; Oct. 16.
Cards, Playing. United States Playing Card Company. 184,269–71; Oct. 16.
Dolls. Nelke Corporation. 183,936; Oct. 16.
Game, Racket. D. Fairbanks. 183,624; Oct. 16.
Golf clubs. Crawford McGregor & Canby Company. 183,556; Oct. 16.
Kites. C. Fritz. 185,013; Oct. 16.
Rubber dolls. Perfection Rubber Company. 184,363; Oct. 16.

CLASS 23.

Automobile transmission. Partridge, Singer & Baldwin, Inc. 160,300; Oct. 16.
Automobile transmission mechanism. Warren Gear Products Company. 162,232; Oct. 16.
Farming implements. Evans and Barnhill, Inc. 182,407; Oct. 16.
Knives, razors, and shears. Union Cutlery Co. 179,341; Oct. 16.
Needles, Sewing-machine and machine knitting. C. B. Barker & Co. 177,949; Oct. 16.
Ore-mill and concentrating-table parts. Mine and Smelter Supply Company. 158,790; Oct. 16.
Pumps, pumping systems, and parts of same, Liquid. Western Pump Company. 157,788; Oct. 16.
Screens for granular materials. R. H. Beaumont Company. 181,929; Oct. 16.
Valves, Poppet. Fansteel Products Company. 181,522; Oct. 16.
Vehicle jacks. Dextra Manufacturing Co. 165,787; Oct. 16.

CLASS 26.

Engines, etc., Instruments for indicating the temperature of internal-combustion. Stewart-Warner Speedometer Corporation. 163,187; Oct. 16.
Lenses, eyeglasses, and spectacles, Ophthalmic. C. A. Meigs. 183,076; Oct. 16.
Printing, issuing, and auditing tickets, Machines for. F. A. Purdy. 167,896; Oct. 16.
Valves, Thermostatic regulating or control. Bishop & Babcock Company. 180,095; Oct. 16.

CLASS 28.

Bags, Mesh. Whiting & Davis Company. 179,979; Oct. 16.
Buckles, Belt. Pioneer Suspender Company. 180,191; Oct. 16.
Buttons, scarf pins, etc., Cuff and collar. Taunton Pearl Works, Inc. 182,387; Oct. 16.
Jewelry and powder-puff boxes, vanity cases, etc. Gorham Manufacturing Company. 152,250; Oct. 16.
Pearls. W. S. Orkin. 181,696; Oct 16

CLASS 29.

Brushes, Artists' paint. United Brush Manufactories. 185,390; Oct. 16.
Brushes, Tooth, complexion, and hand. Geo. R. Gibson & Co. 184,496; Oct. 16.

CLASS 31.

Air conditioning and cooling devices. Aridor Company 179,511; Oct. 18.

CLASS 32.

Bookcases, bedsteads, buffets, bureaus, etc. Heywood-Wakefield Company. 171,459; Oct. 16.
Shades, Porch. C. W. Warren. 179,905; Oct. 16.
Shades, Porch. C. W. Warren. 179,907; Oct. 16.

CLASS 35.

Fire hose, Linen. Wm. & Chas. Beck, Inc. 176,873; Oct. 16.
Fire hose, Linen. Wm. & Chas. Beck, Inc. 176,875; Oct. 16.
Rubber belting. E. C. Atkins & Company. 180,577–8; Oct. 16.
Tire covers. Packard Motor Car Company. 180,385; Oct. 16.
Tires for automobiles and rubber inner tubes for pneumatic tires. Columbia Tire Corporation. 182,136; Oct. 16.
Tires, reliners, etc. Goodyear Tire & Rubber Company of California. 144,811; Oct. 16.

CLASS 37.

Checks. E. S. Bender. 184,707; Oct. 16.
Envelopes and paper for making same. J. W. Butler Paper Co. 182,128; Oct. 16.
Fiber board. Stevens Paper Mills, Inc. 182,891; Oct. 16.
Letter sheet and advertising folders, Combined. Dual-Use Company. 182,503; Oct. 16.
Paper and envelopes and crape paper, Letter. Julius Baumgarten & Söhne Vereinigte Papierwarenfabriken Kommanditgesellschaft. 178,158; Oct. 16.
Paper and envelopes, Writing. The Fair. 182,793; Oct. 16.
Paper, Cover. Peninsular Paper Company. 183,939; Oct. 16.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Paper for mechanical drawings. Stevens Paper Mills, Inc. 182,893; Oct. 16.
Paper napkins. Tissue Company. 183,896; Oct. 16.
Paper, Toilet. Northern Paper Mills. 184,350; Oct. 16.
Paper, Toilet. Northern Paper Mills. 184,352; Oct. 16.
Paper, Toilet. Northern Paper Mills. 184,354–5; Oct. 16.
Paper, Toilet. Northern Paper Mills. 184,358; Oct. 16.
Paper, Toilet. Northern Paper Mills. 184,360; Oct. 16.
Paper, Wrapping. Diem & Wing Paper Co. 184,654; Oct. 16.
Paper, Wrapping. Diem & Wing Paper Co. 184,658; Oct. 16.
Paper, Wrapping. Nekoosa-Edwards Paper Company. 184,746; Oct. 16.
Paper, Wrapping, toilet, and wax. Taverner & Fricke. 185,163; Oct. 16.
Paper, Writing. Diem & Wing Paper Co. 184,655; Oct. 16.
Papers, tablets, notebooks, Crape, etc. Duluth Paper and Stationery Co. 181,437; Oct. 16.
Paperboard. Federal Paper Board Company. 184,443; Oct. 16.
Pencils. Druggists' Supply Corporation. 184,070; Oct. 16.
Pencils, pencil holders, etc., Lead. A. W. Faber. 168,961; Oct. 16.
Pens, Fountain. Le Boeuf Fountain Pen Company. 184,672; Oct. 16.
Printing, stamping, etc., work in connection with stationery. J. E. Wolf. 144,209; Oct. 16.
Shipping tags. Haywood Publishing Company. 184,448; Oct. 16.

CLASS 38.

Almanac and yearbook. C. A. Mann. 176,269; Oct. 16.
Books, pamphlets or folders, Instruction. Northern Institute Co. 180,488; Oct. 16.
Calendars, mailing cards, cut-out novelties. I. K. Ungar. 164,206; Oct. 16.
Cartoons, Title for. World Color Printing Company. 182,390–1; Oct. 16.
Maps, Auto road. Handipak Company. 180,864; Oct. 16.
Music and music books, Sheet. R. Litolff. 177,134; Oct. 16.

CLASS 39.

Aprons. C. L. Scovil. 182,936; Oct. 16.
Aprons, dresses. F. Vogel's Son and Company. 176,585; Oct. 16.
Clothing. H. R. Mallinson & Co. 176,085; Oct. 16.
Clothing for men. Joseph H. Cohen & Sons. 181,246; Oct. 16.
Coats and vests, Men's and boys' sheep-lined. Simon Blum, Incorporated. 180,415; Oct. 16.
Corsets brassières, and underwear. Kops Bros. 184,247–8; Oct. 16.
Corsets, brassières, combination corsets and brassières, etc. Nichols Underwear Corporation. 184,144; Oct. 16.
Creepers, rompers, suits and dresses, Children's. Woodward & Bowman. 176,393; Oct. 16.
Hose, Men's. Parker-Bridget Company. 182,929; Oct. 16.
Hosiery. Anderson Hosiery Mills. 184,155; Oct. 16.
Hosiery. Corticelli Silk Company. 184,385; Oct. 16.
Hosiery. Harrington & Waring. 181,277; Oct. 16.
Hosiery. Marshall Field & Company. 181,269; Oct. 16.
Hosiery. May Hosiery Mills, Inc. 180,544; Oct. 16.
Hosiery, underwear, sweaters, and neckties. Red Mill Hosiery Company. 182,770; Oct. 16.
Knitted bathing suits, sweaters, jackets, and scarfs. S. L. Gilbert & Co. 184,241; Oct. 16.
Knitted underwear, hosiery, and neckties. Keedy, Pfaff & Co. 182,754; Oct. 16.
Overalls, shirts, jumpers, coats, and pants. Keet & Roundtree Dry Goods Co. 182,975; Oct. 16.
Overcoats, coats, vests, trousers. Zurkow & Graff. 181,664; Oct. 16.
Overcoats, raincoats, sport suits, etc. Heidelberg, Wolff & Co. 179,724; Oct. 16.
Overcoats, smoking jackets, golf suits, etc. Heidelberg, Wolff & Co. 179,726; Oct. 16.
Pyjamas and nightshirts. American Wholesale Corporation. 128,994; Oct. 16.
Raincoats. New York Mackintosh Clothing Company. 167,734; Oct. 16.
Shirts. Padin Brothers. 176,688; Oct. 16.
Shirts, Work. Rombro Brothers. 183,633; Oct. 16.
Shirts, Work. Worthy Manufacturing Company. 184,313; Oct. 16.
Skirts. S. Kanner. 174,662; Oct. 16.
Suits and overcoats. J. Wishnevitz. 179,251; Oct. 16.
Suits, overcoats, and raincoats, Men's boys', and children's. Wallerstein Bros. 182,686; Oct. 16.
Suits, overcoats, sweaters, hats, and caps, Boys'. J. Samuels and Brother, Incorporated. 174,411; Oct. 16.
Sweaters, scarfs, bathing suits, etc. Puritan Knitting Mills. 177,690; Oct. 16.
Underwear. Mercury Mills, Limited. 181,137; Oct. 16.
Underwear, Men's and boys'. Litewear Manufacturing Company. 175,934; Oct. 16.
Underwear, Textile. L. K. Whitbeck. 183,428; Oct. 16.
Underwear, Women's knitted. Royal Underwear Company. 183,670; Oct. 16.
Waists and underwear, Children's. Thos. P. Taylor Co. 184,222; Oct. 16.

CLASS 40.

Eyelash crimpers. Stickel Company. 184,310; Oct. 16.
Pins, Safety. W. T. Grant Company. 181,830–1; Oct. 16.
Wigs. National Hair Goods Co. 182,764; Oct. 16.

CLASS 42.

Batiste, Mercerized cotton. Carson Pirie Scott & Co. 184,595; Oct. 16.
Cotton fabrics. Denzer & Nathan, Inc. 184,437–8; Oct. 16.
Cotton piece goods. Arnold, Cheney & Co. 174,164; Oct. 16.
Cotton piece goods. Robertson Bleachery & Dye Works, Incorporated. 183,802–3; Oct. 16.
Cotton piece goods. M. H. Rosenberg & Co. 172,806; Oct. 16.
Cotton piece goods. J. L. Stifel & Sons. 184,367; Oct. 16.
Cotton print cloth in the piece. Everett, Heaney & Co. 170,571; Oct. 16.
Crapes in the piece, Cotton and silk. A. Schottland Inc. 184,799–800; Oct. 16.
Cretonnes or printed fabrics. Arthur Sanderson & Sons Limited. 181,617; Oct. 16.
Denims in the piece. Erwin Cotton Mills Co. 137,451; Oct. 16.
Ginghams in the piece. S. L. Hoffman. 182,377; Oct. 16.
Hair nets. S. M. Block. 183,689; Oct. 16.
Hair nets. Samstag & Hilder Bros., Inc. 184,798; Oct. 16.
Linen and cotton cloths. Farley Harvey Company. 184,965; Oct. 16.
Linen and cotton cloths and woolen blankets. Farley Harvey Company. 183,203; Oct. 16.
Linen and cotton cloths and woolen blankets. Farley Harvey Company. 183,206; Oct. 16.
Plushes in the piece. Hind & Harrison Plush Co. 183,211; Oct. 16.
Rugs, Textile. A. & M. Karagheusian, Inc. 184,912; Oct. 16.
Sateen, cotton, and silk mixed piece goods and cotton piece goods. H. Jacobs & Sons Inc. 183,526; Oct. 16.
Sheetings and pillowcases. Service Equipment Co. 183,237; Oct. 16.
Silk and artificial-silk piece goods. Robert Rosenthal & Co. 167,489; Oct. 16.
Silk fabrics. Cheney Brothers. 185,202; Oct. 16.
Silk fabrics. Corticelli Silk Company. 184,388–9; Oct. 16.
Silk fabrics. Corticelli Silk Company. 184,391; Oct. 16.
Silk piece goods. Empire Silk Company. 185,179; Oct. 16.
Woolen piece goods. Forstmann & Huffmann Company. 185,112–3; Oct. 16.
Woolen piece goods. Forstmann & Huffmann Company. 185,115–17; Oct. 16.

CLASS 43.

Thread, Silk. N. Chertoff. 184,234; Oct. 16.

CLASS 44.

Manicure files. C. J. Bates & Son. 175,294; Oct. 16.
Sanitary napkins. Hospital Specialty Co. 183,833; Oct. 16.

CLASS 46.

Apples and pears, Fresh. B. F. Sellers. 182,618; Oct. 16.
Apples, Fresh. Inwood Fruit Growers Club. 172,333; Oct. 16.
Beverage. G. Weinstein. 182,632; Oct. 16.
Butter. Gude Brothers, Kieffer Company. 174,441; Oct. 16.
Butter, poultry, and eggs. Alloway Brothers. 181,100; Oct. 16.
Candies. Mary Fraser Candies, Inc. 179,366; Oct. 16.
Candies. Nunnally Company. 177,103; Oct. 16.
Candies and other sugar products. A. L. Boyd. 173,697; Oct. 16.
Candy. Cola Gems Company. 182,332; Oct. 16.
Candy. C. A. Crane. 183,023; Oct. 16.
Candy. Fray Candy Company. 146,591; Oct. 16.
Candy. Richards-Schedle Candy Co. 182,771; Oct. 16.
Candy. Rogers Candy Company. 182,612–4; Oct. 16.
Candy. A. Saulpaugh. 181,912; Oct. 16.
Candy confections. Canterbury Candy Makers, Inc. 182,651; Oct. 16.
Candy, ice cream, nut meats. M. A. Bottomley. 159,995; Oct. 16.
Canned fish. J. Madison. 175,611; Oct. 16.
Canned olive oil. Michele Ajello Co. 179,448; Oct. 16.
Canned olives, grapefruit, pimentos, and spinach. Van Camp Sea Food Company. 182,685; Oct. 16.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Canned peas. Calumet Packing Co. 167,383; Oct. 16.
Canned salmon. Bankers Discount Corporation. 180,828; Oct. 16.
Canned shrimp. A. Oemler. 180,807; Oct. 16.
Canned vegetables. Minnesota Valley Canning Company. 181,300; Oct. 16.
Canned vegetables, cocoa, rice, etc. Cumpson-Doelman, Inc. 179,520; Oct. 16.
Canned vegetables, fruits, etc. National Packing Corporation. 180,878; Oct. 16.
Catchup and canned vegetables. Brighton Canning Company. 180,836; Oct. 16.
Confection. E. C. Webber. 180,035; Oct. 16.
Cookies, cakes, crackers, and candies. Jacksonville Cracker Works. 181,751; Oct. 16.
Dates. Alexandre Rannou & Cie. 174,874; Oct. 16.
Dessert pudding powders. R. & W. Products Co. 162,267; Oct. 16.
Figs, sun-dried raisins, shelled nuts, etc., Preserved. G. Vlachos. 180,913; Oct. 16.
Food, Special carbohydrate antitoxic. Battle Creek Food Company. 180,463; Oct. 16.
Fruits, Fresh citrous. W. G. Roe. 177,408; Oct. 16.
Gelatin used as a food or as ingredient of foods. Lijmen-Gelatinefabriek-Delft. 173,332; Oct. 16.
Grapefruit. Kopf Bros. Co. 183,451; Oct. 16.
Grapes, citrous fruits, and cantaloupes, Fresh. Associated Fruit Co. 182,645; Oct. 16.
Gum, Wax chewing. Sweetman Company. 161,587; Oct. 16.
Hams and bacons. Arthur E. Door & Co. 159,852; Oct. 16.
Hams, bacon, sausage, lard, etc. Evansville Packing Company. 179,931; Oct. 16.
Ice-cream cones. Kansas City Pure Food Co. 160,887; Oct. 16.
Ice-cream cones. I. Marchiony. 184,971; Oct. 16.
Jams, preserves, jellies, etc., Fruit. Paul De Laney Co. 175,773; Oct. 16.
Jelly compound, Pure-fruit. C. L. Weston. 182,731; Oct. 16.
Lard and lard substitutes and compounds. L. Sellmayer. 170,696; Oct. 16.
Macaroni products. Keystone Macaroni Manufacturing Company. 181,129; Oct. 16.
Macaroni products. Keystone Macaroni Manufacturing Company. 181,131–3; Oct. 16.
Macaroni, spaghetti, noodles, etc. Randazzo Macaroni Mfg. Co. 156,862; Oct. 16.
Malt extracts for food purposes. MalVaz Malt Extract Company. 180,481; Oct. 16.
Milk, Malted. Horlick's Malted Milk Company. 181,526; Oct. 16.
Mints, cream bars, etc., Chocolate-covered. Candy Sales Corporation. 183,361; Oct. 16.
Oil, Edible. Corn Products Refining Company. 180,272; Oct. 16.
Oil, Olive. Hijos de Ybarra. 182,501; Oct. 16.
Pears, Fresh. H. Reed. 161,579; Oct 16.
Popcorn. H. A. Kesting. 182,420; Oct 16.
Preparation for use as a frosting, icing, etc. E. E. Curtis. 180,753; Oct. 16.
Shortening. A. Cohen. 147,093; Oct. 16.
Sugar, Maple. F. M. Pike. 179,883; Oct. 16.
Tea and coffee. Bantam Products Ltd. 179,580; Oct. 16.

CLASS 48.

Malt extracts. J. E. Magnus. 150,363; Oct. 16.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF OCTOBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Adams, Elliot Q., Berkeley, Calif., by mesne assignments dedicated to the People of the United States for their free use and enjoyment. Machine used for sublimation. 1,470,950; Oct. 16.

Adams, Frank A., Rochester, assignor to B. C. Olney, Rome, and J. O. Dailey, Rochester, N. Y. Clothes-washing machine. 1,470,671; Oct. 16.

Adams, Harold S. (See Shepard, M. G., and Adams.)

Adamson, William M., New Brighton, N. Y. Separating device. 1,471,131; Oct. 16.

Ahlering, Frederick E., Port Reading, N. J. Fountain shaving brush. 1,470,903; Oct. 16.

Allen, Charles R., assignor to The Ashtabula Bow Socket Company, Ashtabula, Ohio. Foldable vehicle top. 1,470,589; Oct. 16.

Allen, Charles R., assignor to The Ashtabula Bow Socket Company, Ashtabula, Ohio. Top for vehicles and the like. 1,470,590; Oct. 16.

Ambrose, Joseph, assignor to Michigan Smelting and Refining Company, Detroit, Mich. Die-casting machine. 1,470,672; Oct. 16.

Ambursen, Nils F., Pittsburgh, Pa., assignor to Uni-Form Company. Mold form. 1,470,673; Oct. 16.

Amies, Joseph H., Philadelphia, Pa. Preparing a cementitious composition. 1,470,674; Oct. 16.

American Arch Company. (See Himmelright, Raleigh, assignor.)

American Arch Company. (See Neff, John P., assignor.)

American Arch Company. (See Parish, Le Grand, assignor.)

American Bosch Magneto Corporation. (See Rosner, Adolph, assignor.)

American Cast Iron Pipe Company. (See Moore, William D., assignor.)

American Coach and Body Company, The. (See Roslund, Walter, assignor.)

American Liquid Meter Company. (See Cade, Enos B., assignor.)

American Optical Company. (See Laabs, Max A., assignor.)

American Optical Company. (See Maynard, A. E., and Gunning, assignors.)

American Optical Company. (See Schumacher, Elmer L., assignor.)

American Slicing Machine Co. (See Campbell, William J., assignor.)

American Steel Foundries. (See Carsendin, Charles A., assignor.)

American Telephone and Telegraph Company. (See Bailey, Rand S., assignor.)

American Telephone and Telegraph Company. (See Branson, David E., assignor.)

American Telephone and Telegraph Company. (See Martin, William H., assignor.)

American Writing Paper Company. (See Armstrong, James H. A., assignor.)

Andersen, Andrew C., T. P. Archer, and P. W. Seiler, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Bolt. 1,470,951; Oct. 16.

Anderson, Albert & J. M., Manufacturing Company. (See Anderson, Alf E., assignor.)

Anderson, Alf E., Milton, assignor to Albert & J. M. Anderson Manufacturing Company, Boston, Mass. Trolley-wire support. 1,471,132; Oct. 16.

Anderson, Niels K., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Temperature relay. 1,470,676; Oct. 16.

Andresen, Viggo V. J., Copenhagen, Denmark. Dentifrice. 1,470,794; Oct. 16.

Andrew, Leroy S. (See Bronson, George E., assignor.)

Archer, Thomas P. (See Andersen, A. C., Archer, and Seiler.)

Armour, John C., Montreal, Quebec, Canada. Portable electric lamp. 1,471,133; Oct. 16.

Armstrong, James H. A., Holyoke, Mass., assignor to American Writing Paper Company. Making paper having the appearance of hand-made paper. 1,470,675; Oct. 16.

Ash, Charles S., Geneva, N. Y. Making wheel hubs. 1,471,134; Oct. 16.

Ashtabula Bow Socket Company, The. (See Allen, Charles R., assignor.)

Atlas Devices Company, Incorporated. (See Dinsfel, W. H., and Weigele, assignors.)

Austin, F. C., Machinery Company. (See Olsen, Halften E., assignor.)

Avery, W. & T., Limited. (See Gilbert, Arthur S., assignor.)

Babbitt, Earl H., Edgewater, Colo. Medicinal compound for cows. 1,470,795; Oct. 16.

Babcock & Wilcox Company, The. (See Jacobus, David S., assignor.)

Babic, Steven. (See Pochila, Franz, assignor.)

Bachman, Harry L., assignor to The Weinman Pump Manufacturing Co., Columbus, Ohio. Steam-heating system. 1,470,796; Oct. 16.

Bailey, Rand S., Montclair, N. J., assignor to American Telephone and Telegraph Company. Telephone-exchange system. 1,470,611; Oct. 16.

Baker, Thomas W., Lewiston, Idaho. Floor or wall ground. 1,470,797; Oct. 16.

Barnett, William, Portland, Oreg. Automobile lock. 1,470,662; Oct. 16.

Ballard, Albert M., Yale, Okla., assignor to Sun Oil Company, Philadelphia, Pa. Oil and gas separator. 1,471,088; Oct. 16.

Ballard, Herbert T., Norristown, Pa. Knitting machine. 1,470,677; Oct. 16.

Ballard, Herbert T., Norristown, Pa. Knitting-machine head. 1,470,678; Oct. 16.

Balsillie, John G., Melbourne, Australia. Reflector for use in light projectors. 1,470,798; Oct. 16.

Banes, Walter D., Germantown, Pa., assignor to General Pressed Metal Company. Actuating device. 1,470,910; Oct. 16.

Barnett, Robert K., Philadelphia, Pa. Elevator conveyer. 1,470,663; Oct. 16.

Barnhart, Curtis E., Auburn, Nebr. Automatic air coupler. 1,471,231; Oct. 16.

Barry, John M., Belfast, Ireland. Glare screen for vehicles. 1,470,800; Oct. 16.

Bartlett, Fred C., Cromwell, Iowa. Crate. 1,471,232; Oct. 16.

Bartlett, William A., Baltimore, Md. Trolley. 1,471,135; Oct. 16.

Bartman, Daniel, Larned, Kans. Poultry roost. 1,470,799; Oct. 16.

Barnch, Samuel, New York, N. Y. Antirattling device for vehicles. 1,470,952; Oct. 15.

Bassler, Edwin M., Milwaukee, Wis. Paper-making machine. 1,470,953; Oct. 16.

Bates, Samuel A., St. Louis, Mo. Surgical appliance. 1,470,707; Oct. 16.

Bauman, Carl, Pine Island, Minn. Locomotive. 1,471,089; Oct. 16.

Beardsley, Robert, Chicago, Ill. Imitation parchment board and making the same. 1,471,021; Oct. 16.

Beardsley, Robert, Chicago, Ill. Shade holder. 1,471,022; Oct. 16.

Beatty, William E., Bayside, assignor to Western Electric Company, Incorporated, New York, N. Y. Repeating method and system. 1,470,954; Oct. 16.

Béhar, Manoël F., U. S. Army. Gun and ammunition therefor. 1,470,591; Oct. 16.

Belleville Casket Co. (See Blen, William J., assignor.)

Bellringer, Sidney M., assignor to Wayne Tool Manufacturing Company, Waynesboro, Pa. Reamer. 1,470,679; Oct. 16.

Bender, Lonnie S., Kansas City, Mo. Animal trap. 1,471,090; Oct. 16.

Bennington Scale Mfg. Co. (See Tyler, Warren C., assignor.)

Bennett, Frank S., Schenectady, N. Y., assignor to General Electric Company. Governing mechanism. 1,471,315; Oct. 16.

Bennett Injector Company. (See Wood, A. J., assignor.)

Berg, Dana, Fort Collins, Colo. Sound box for phonographs. 1,471,233; Oct. 16.

Berry, Reni S. (See Rushton, E. T., and Berry.)

Berthet, Georges V. M., Paris, France. Foot arch. 1,470,592; Oct. 16.

Beskow, Bernhard M., Miami, Fla. Golf-stroke register. 1,470,904; Oct. 16.

Bessesen, Alfred N., Minneapolis, Minn. Fluid-pressure device. 1,471,091; Oct. 16.

Bethlehem Steel Company. (See Entwisle, E. F., Howell, and Leach, assignors.)

Blen, William J., assignor to Belleville Casket Co., Belleville, Ill. Burial casket. 1,471,023; Oct. 16.

Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Plug receptacle. 1,470,956; Oct. 16.
Blaha, Ludwig, Lyndhurst, N. J. Attachment for sound reproducing devices. 1,471,092; Oct. 16.
Blake, Robert A., et al., legal representatives. (See Capell, George M.)
Blanchard, George N., assignor to Colmar Burner Co., San Francisco, Calif. Furnace. 1,470,680; Oct. 16.
Bliss, Donald M., assignor to H. B. Sherman Manufacturing Co., Battle Creek, Mich. Combined bushing-retaining screw and lubricator. 1,470,801; Oct. 16.
Bliss, William L., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. 1,471,093; Oct. 16.
Blood, Bryant H., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Gauge. 1,470,802; Oct. 16.
Bloss, Walter R., Muscle Shoals, Ala. Crane hook. 1,471,094; Oct. 16.
Blue Island Specialty Company. (See Montag, Christopher, F., assignor.)
Blum, George W., San Francisco, Calif. Camera. 1,470,708; Oct. 16.
Boardman, Sidney R., Los Angeles, Calif. Washing machine. 1,471,234; Oct. 16.
Boddie, Clarence A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Voltage-regulator system. 1,470,682; Oct. 16.
Boddie, Clarence A., Pittsburgh, and R. E. Cullings, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Regulator system. 1,470,681; Oct. 16.
Boehm, Rudolph A., assignor to Rickert-Shafer Company, Erie, Pa. Screw-cutting machine. 1,470,683; Oct. 16.
Böhle, Karl, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Press for producing hollow bodies. 1,470,593; Oct. 16.
Bonelli, George A., Kingman, Ariz. Spiral-wire-forming device. 1,471,235; Oct. 16.
Bonetto, Domenico, Roanoke, Ill. Fluid-motor system. 1,471,095; Oct. 16.
Booth, Wilfred E., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical-wave transmission system. 1,470,955; Oct. 16.
Borleis, August, Raspeburg, Baltimore, Md. Scissors sharpener. 1,471,136; Oct. 16.
Bowers, Edward, Paducah, Ky. Roller-skate wheel. 1,471,236; Oct. 16.
Bowman, Louis G., Chicago, Ill. Drill-guide attachment for chucks. 1,471,137; Oct. 16.
Brand, Frederick F., Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. 1,471,096; Oct. 16.
Branson, David E., Danville, Ind., assignor to American Telephone and Telegraph Company. Secret signaling system. 1,470,594; Oct. 16.
Brock, Edward L., administrator. (See Brock, Matthias.)
Brock, Matthias, deceased, Boston, by E. L. Brock, Beverly, Mass., administrator, assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-bottoming machine. 1,470,595; Oct. 16.
Brogdex Company. (See Haworth, Albert, assignor.)
Bronson, George E., Beacon Falls, assignor of thirty per cent to L. S. Andrew, Naugatuck, Conn. Collapsible form. 1,470,612; Oct. 16.
Brothers, Eli, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Relasting machine. 1,470,613; Oct. 16.
Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. 1,471,305; Oct. 16.
Brown, Chauncey D., Warrenton, Va. Brake mechanism for automobiles. 1,470,905; Oct. 16.
Brown, Daniel H. (See Royal, R. R., and Brown.)
Brown, Leo B. (See Lewis, F. J., and Brown.)
Brown, Obediah H., Oxford, N. J. Tire guard. 1,471,237; Oct. 16.
Brown, Robert S., London, England. Closure for bottles, tins, jars, containers, and receptacles. 1,471,139; Oct. 16.
Brown, Robert S., London, England. Closure for bottles, tins, jars, containers, and receptacles. 1,471,140; Oct. 16.
Brown, Theophilus, assignor to Deere & Company, Moline, Ill. Motor cultivator. 1,471,138; Oct. 16.
Brulotte, Leonidas J., Toronto, Ontario, Canada. Pulley. 1,471,097; Oct. 16.
Brush, Alanson P., Detroit, Mich. Steering-wheel brake. 1,470,803; Oct. 16.
Buch, Paul H., and H. M. Groff, Trenton, N. J. Refrigerating apparatus. 1,471,008; Oct. 16.
Buckingham, Earle, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Oil pump. 1,470,804; Oct. 16.
Budd Wheel Company. (See Ibach, Emil, assignor.)
Bueter, Joseph H., Fort Madison, Iowa. Shock absorber. 1,470,906; Oct. 16.
Bullinger, Frederic H., Yonkers, N. Y., assignor to Ward Leonard Electric Company. Automatic controller. 1,470,907; Oct. 16.
Bugno, Charles F. (See Harbaugh, H. E., Bugno, and Spaeth.)
Burdick, John S., Stratford, Conn. Lock. 1,470,805; Oct. 16.
Burke, Arthur D., Stillwater, Okla. Gelatin tester. 1,470,806; Oct. 16.
Burkhard, Charles, New York, N. Y. Storage-battery filler. 1,471,238; Oct. 16.
Burrow, Frank V., Los Angeles, Calif. Merry-go-round steeplechase. 1,470,911; Oct. 16.
Cade, Enos B., assignor to American Liquid Meter Company, Portland, Oreg. Meter for fluids. 1,470,684; Oct. 16.
Calabrese, Frank, Chicago, Ill. Ventilator. 1,470,685; Oct. 16.
Calhoon, Zeddock, Luton, Iowa. Vehicle power jack. 1,470,808; Oct. 16.
Campbell, William J., Indianapolis, Ind., assignor to American Slicing Machine Co., Chicago, Ill. Slicing machine. 1,470,614; Oct. 16.
Capell, George M., deceased, Passenham, near Stony Stratford, R. A. Blake, London, and K. M. Dawes, commonly called Capell, St. Lawrence, Isle of Wight, England, legal representatives. Centrifugal fan. 1,471,141; Oct. 16.
Caplan, James H., Boston, Mass. Tool for demountable rims. 1,471,099; Oct. 16.
Carpenter, Walter W., Charleston, S. C. Paste-tube cap. 1,470,686; Oct. 16.
Carr, Adelbert E., Kodiak, Alaska. Fish boner. 1,470,807; Oct. 16.
Carroll, George P. (See Hapgood, Cyrus H., assignor.)
Carscadin, Charles A., assignor to American Steel Foundries, Chicago, Ill. Yoke for draft gears. 1,470,809; Oct. 16.
Catanzaro, John, Framingham, Mass. Life preserver. 1,470,908. Oct. 16.
Cavicchi, Ercole, Quincy, Mass. Rotary grinding or polishing tool. 1,470,957; Oct. 16.
Champion Blower & Forge Company. (See Long, Charles B., assignor.)
Chandler, Elbert G., Portland, Oreg. Railway truck. 1,470,958; Oct. 16.
Chapman, Albert B., et al. (See Ehmke, Albert E., assignor.)
Chapman, Frank H., assignor to Toledo Scale Company, Toledo, Ohio. Pivot bearing. 1,470,665; Oct. 16.
Chapman, Frank, Winamac, Ind., assignor of one-fourth to S. Chapman and one-fourth to W. Chapman. Water motor. 1,470,909; Oct. 16.
Chapman, Sylvester, et al. (See Chapman, Frank, assignor.)
Chapman, Wilbert, et al. (See Chapman, Frank, assignor.)
Charlton, Harold, Chicago, Ill. Tumbler lock. 1,470,810; Oct. 16.
Chase, Henry A., Newtonville, assignor to I. C. Decatur, Malden, and L. W. Mustard, jr., Wellesley Hills, Mass. Resetting counter. 1,471,306; Oct. 16.
Cheney, William G., Marlboro, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Assembling and lasting machine. 1,470,615; Oct. 16.
Cherry, Lester A., Kenmore, N. Y., assignor, by mesne assignments, to Manley & Barlow, Corry, Pa. Registering meter. 1,471,100; Oct. 16.
Chesnutt, John L., Long Beach, Calif. Swivel caster. 1,471,307; Oct. 16.
Chicago Shoe Machinery Company. (See Miller, Charles F., assignor.)
Chicago Vitreous Enamel Product Company. (See Hogenson, William, assignor.)
Christie, John, North Carlton, and A. R. Lang, Elsternwick, Victoria, Australia. Form for molding concrete and like structures. 1,471,239; Oct. 16.
Clarke, Charles E., assignor of one-third to B. F. Stitt and one-third to T. F. Flood, Columbus, Ohio. Valve grinder. 1,470,687; Oct. 16.
Cleary, Edwin, deceased, by A. Hutchison, administrator, London, England. Gas and liquid contact device. 1,471,101; Oct. 16.
Cleland, Robert J., assignor to Kibbe Brothers Company, Springfield, Mass. Display device. 1,470,688; Oct. 16.
Clossmann, Julius, Vienna, Austria. Switch device. 1,471,242; Oct. 16.
Clossmann, Julius, and H. Halberstadt, Vienna, Austria. Arc-preventing device. 1,471,240; Oct. 16.
Clossmann, Julius, and H. Halberstadt, Vienna, Austria. Automatic electric-circuit breaker. 1,471,241; Oct. 16.
Coeuille, Jules F., Paris, France. Electric soldering iron. 1,470,912; Oct. 16.
Coffin, Herbert L., New York, N. Y. Airplane. 1,471,243; Oct. 16.
Cole, Don, assignor to Stromberg Motor Devices Company, Chicago, Ill. Carburetor. 1,470,616; Oct. 16.
Colmar Burner Company. (See Blanchard, George N., assignor.)
Compagnie D'Applications Mecaniques. (See Rouanet, Louis, assignor.)
Compton, John H., London, England. Expressive-touch action for organs and like instruments. 1,471,318; Oct. 16.
Conaghan, Victor L., Wichita, Kans. Oil-well underreamer. 1,471,102; Oct. 16.
Conlon, Walter J. (See Dienner, John A., assignor.)

Connell, Edwin L., assignor to The Van Dorn Electric Tool Company, Cleveland, Ohio. Electric switch. 1,471,308; Oct. 16.
Connor, Arthur, Chicago, Ill. Plug for ice and hot-water bags. 1,471,103; Oct. 16.
Cook, Albert E., Evanston, and T. Van Tuyl, Kankakee, Ill.; said Van Tuyl assignor to said Cook. Extensible frame for combination motor vehicles. 1,470,811; Oct. 16.
Cook, Carl B., Haddonfield, assignor to Charles K. Cook Company, Incorporated, Camden, N. J. Cardcase. 1,470,709; Oct. 16.
Cook, Charles K., Company. (See Cook, Carl B., assignor.)
Cook, Russell D., Salt Lake City, Utah. Burial casket. 1,471,244; Oct. 16.
Cook, Senat T., Cowgill, Mo. Ditcher and grader. 1,470,959; Oct. 16.
Cooper, Abraham, Brooklyn, N. Y. Bridge arm for lighting fixtures. Des. 63,128; Oct. 16.
Corno Mills Company, The. (See Russell, Clarence E., assignor.)
Cornwell, Elmer E. and J. H. McCrendy, Okmulgee, Okla. Burner. 1,471,104; Oct. 16.
Cossey, John C. G. (See Mitchell, J., and Cossey.)
Cotton, Arthur F. R., London, England. Gramophone. 1,470,812; Oct. 16.
Cox, John L., Philadelphia, Pa. Armor plate and making same. 1,470,813; Oct. 16.
Cox, Reginald E., Torrance, Calif. Ball-bearing swivel sucker-rod joints. 1,471,105; Oct. 16.
Cox, Reginald E., Mexia, Tex. Sucker-rod coupling. 1,471,106; Oct. 16.
Cox, William G., assignor, by mesne assignments, to The Eaton Axle and Spring Company, Cleveland, Ohio. Spring buffer or bumper. 1,470,960; Oct. 16.
Cowles, C., and Company. (See Hart, Franklin H., assignor.)
Cowling, Harry G. (See Osterdahl, L., and Cowling.)
Craig, Frederick E., Lawrence, Mass. Elastic tire. 1,470,913; Oct. 16.
Craine, Charles L., assignor of one-half to E. C. Smith, Meadville, Pa. Arch support. 1,470,618; Oct. 16.
Crell, Albert P., Grand Rapids, Mich. Bumper support for automobiles. 1,470,814; Oct. 16.
Cross, Alva A., Detroit, Mich. Wrench. 1,471,142; Oct. 16.
Cressey, Steve, San Pedro, Calif. Reversing mechanism. 1,471,245; Oct. 16.
Creveling, John L., Auburn, N. Y. Power transmission. 1,470,961; Oct. 16.
Cromwell, John C., Cleveland, Ohio. Universal joint. 1,471,143; Oct. 16.
Crouse-Hinds Company. (See Bissell, Carl H., assignor.)
Crozier, Charles, Honolulu, Hawaii. Sling. 1,470,815; Oct. 16.
Cullings, Roswell E. (See Boddie, C. A., and Cullings.)
Cummings, Charles H. (See Cummings, George A., assignor.)
Cummings, George A., assignor of one-half to C. H. Cummings, Spokane, Wash. Direction indicator. 1,470,617; Oct. 16.
Cunningham, Orval J., Kansas City, Mo. Therapeutic apparatus. 1,471,144; Oct. 16.
Curtain Supply Company, The. (See Whitmore, Edward E., assignor.)
Curtin, David F., Chicago, Ill. Pocket pencil holder. 1,470,816; Oct. 16.
Cutler-Hammer Mfg. Co., The. (See Meuer, George J., assignor.)
Dailey, J. O., et al. (See Adams, Frank A., assignor.)
Dahlene, Andrew, San Diego, Calif. Multiple oil-gas generator and distributor. 1,470,817; Oct. 16.
Daniels, Ernest S., Washington, D. C. Automatic grooving and strip-inserting machine. 1,471,246; Oct. 16.
Darling, Lewis A., assignor to Electric Service Supplies Company, Philadelphia, Pa. Controlling valve. 1,471,107; Oct. 16.
David, Ernest, Maywood, assignor of one-half to L. Wachtel, Chicago, Ill. Antiglare guard for headlights. 1,471,024; Oct. 16.
Davis & Furber Machine Company. (See Godfrey, Oscar M., assignor.)
Davis, Jacob E., Ironton, Ohio. Clay back for gas heaters. 1,470,586; Oct. 16.
Davis, Lawrence C., Cedar Falls, Iowa, assignor to Dentabrush Company. Sanitary toothbrush. 1,470,710; Oct. 16.
Davies, Samuel, Briton Ferry, Wales. Tin-plate brauning or grease-removing machine. 1,471,108; Oct. 16.
Dawes Kathleen M., commonly called Capell, et al, legal representatives. (See Capell, George M.)
Day, Emory C., Laguna Beach, Cal. Universal handle for surgical instruments. 1,470,914; Oct. 16.
Day, William A., assignor of one-half to H. V. Saltzgaber, Bellingham, Wash. Hand clamp. 1,470,706; Oct. 16.
Dayton Manufacturing Company, The. (See Wilcke, O. C. F., and Kirby, jr., assignors.)
Dean, William F., assignor to Golun Fur Novelty Co., Johnstown, N. Y. Powder puff. 1,471,145; Oct. 16.
Dean, William W., Lowell, Mass., assignor to The Efficiency Electric Corporation, New York, N. Y. Phonograph stop mechanism. 1,471,146; Oct. 16.
Decatur, Irving C., et al. (See Chase, Henry A., assignor.)
Decorative Arts League. (See Muller, O. P., and Popoff, assignors.)
Deere & Company. (See Brown, Theophilus, assignor.)
Deere & Company. (See McKahin, Herbert B., assignor.)
Delahaye, Herman, Destelbergen, near Ghent, Belgium. Manufacturing viscose with a view to the manufacture of artificial silk and like products not liable to lose their resistance by contact with water. 1,470,711; Oct. 16.
De Luxe Brush Company, The. (See Lauterbach, Alexander B., assignor.)
Demmler, Paul E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Cleaning apparatus. 1,470,712; Oct. 16.
Denny, James J., and R. B. Watson, Cobalt, Ontario, Canada. Rotary pulverizer. 1,470,597; Oct. 16.
Dentabrush Company. (See Davis, Lawrence C., assignor.)
De Olaneta, Harold, assignor to Winchester Repeating Arms Company, New Haven, Conn. Dry cell. 1,470,915; Oct. 16.
Dessau, Morland M., London, England. Pillow, marine life-saving belt, and the like. 1,470,598; Oct. 16.
Detroit Lubricator Company. (See Lanning, John G., assignor.)
De Villiers, Peter G. T., Pretoria, Transvaal, assignor of one-half to A. Rogers-Jenkins, Durban, Natal, Union of South Africa. Coin slot. 1,470,599; Oct. 16.
De Waid, John V., Philadelphia, Pa. Water-level indicator. 1,470,916; Oct. 16.
Dibble, Carl W., and M. Phillips, Portland, Oreg., assignors of one-fifth to J. T. Loofbourow, one-fifth to J. G. Meeks, and one-fifth to E. D. Howe. Stencilling machine. 1,470,962; Oct. 16.
Dick, David S., Hawarden, Iowa. Hog oiler. 1,471,109; Oct. 16.
Dickinson, John D. (See Mulford, F. B., and Dickinson.)
Di Cristo, Ralph, Natick, R. I., assignor to Draper Corporation, Hopedale, Mass. Picker check. 1,470,821; Oct. 16.
Dienner, John A., Chicago, assignor to W. J. Conlon, Cicero, Ill. Reversing mechanism. 1,471,148; Oct. 16.
Dienner, John A., Chicago, Ill. Toy. 1,471,147; Oct. 16.
Dietz, Emil, Indianapolis, Ind. Swivel for truck wheels. 1,471,247; Oct. 16.
Dingwell, Samuel E., Violet, Nebr. Automobile tire chain. 1,471,248; Oct. 16.
Dinspel, William H., New York, N. Y., and E. Weigele, Bergenfield, N. J., assignors to Atlas Devices Company, Incorporated, New York, N. Y. Pneumatic-dispatch apparatus. 1,470,600; Oct. 16.
Disbrow, Clarkson A., New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Renewable insulation for rail joints. 1,470,822; Oct. 16.
Diven, Jennie E., Oakland, Calif. Thermos container. 1,470,713; Oct. 16.
Doane, Frank R., Vandalia, Mich. Stove or furnace attachment. 1,470,601; Oct. 16.
D'Olier, Henry, jr., Bridgeport, Conn. Illuminating fixture gauge. 1,470,870; Oct. 16.
Donner, Philip C., Summit, N. J. Pelt or skin dehairing machine. 1,470,714; Oct. 16.
Dorey, William A., Newark, Ohio, assignor to Holophane Glass Company, Incorporated, New York, N. Y. Refractor. 1,470,602; Oct. 16.
Dorrance, Donald D., Scotts, Mich. Cooking utensil. 1,470,963; Oct. 16.
Dose, Charles C., Seattle, Wash., assignor to Perfeclite Manufacturing Co. Lighting fixture. 1,470,964; Oct. 16.
Doutney, George, Brooklyn, N. Y. Safety envelope. 1,470,715; Oct. 16.
Downey, John F., assignor to Universal Ash Tray Company, Inc., Providence, R. I. Ash tray. Re15698; Oct. 16.
Drake, Robert Z., Omaha, Nebr. Lumber moving and storage means. 1,471,149; Oct. 16.
Draper Corporation. (See Brown, Carl D., assignor.)
Draper Corporation. (See Di Cristo, Ralph, assignor.)
Dryer, William P., Schenectady, N. Y., assignor to General Electric Company. Valve gear. 1,471,316; Oct. 16.
Du Boise, Rhesa G., East Orange, N. J. Golf-cup device. 1,470,603; Oct. 16.
Duplex Engine Governor Company. (See Tabb, Warner T., assignor.)
Dziewoński, Karol, Cracow, Poland. Preparation of dyestuffs. 1,471,150; Oct. 16.
Earle, Henry, Warren, Mass. Spark plug. 1,471,249; Oct. 16.
Early, Bartholomew F., Lowell, Mass. Lug strap for looms. 1,471,110; Oct. 16.
Eaton Axle and Spring Company, The. (See Cox, William G., assignor.)
Ebell, Werner, Nenruppin, Germany. Warp-tensioning device for looms. 1,470,716; Oct. 16.
Eckert, John, Milwaukee, Wis. Gear-wheel-forging dies and making same. 1,470,818; Oct. 16.
Eder, Franz, New Rochelle, N. Y., assignor to River and Rail Transportation Company, St. Louis, Mo. Automatically-locking flat car for containers. 1,471,111; Oct. 16.

Eder, Harold R., Pittston, Pa. Mud lug. 1,470,819; Oct. 16.
Efficiency Electric Corporation. (See Dean, William W., assignor.)
Ehmke, Albert E., assignor of one-third to C. W. Ehmke and one-third to A. B. Chapman, Silver Creek, N. Y. Spark plug for explosive engines. 1,471,309; Oct. 16.
Ehmke, Charles W., et al. (See Ehmke, Albert E., assignor.)
Electric Service Supplies. (See Darling, Lewis A., assignor.)
Electric Water Sterilizer and Ozone Company. (See Hartman, Harry B., assignor.)
Elliott, Harold F. (See Pratt, H., Elliott, and Murphy.)
Ellis, Frederic R., Hyde Park, assignor to B. F. Sturtevant Company, Boston, Mass. Apparatus for cooling air. 1,471,112; Oct. 16.
Elmen, Gustaf W., Leonia, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission system. 1,470,965; Oct. 16.
Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. 1,471,317; Oct. 16.
Entwisle, Edward F., F. E. Howells, and L. L. Leach, Steelton, assignors to Bethlehem Steel Company, Bethlehem, Pa. Apparatus for handling and treating rails. 1,471,250; Oct. 16.
Erdahl, Henry. (See Erdahl, Selmer and H.)
Erdahl, Selmer and H., Britton, S. Dak. Bearing. 1,470,966; Oct. 16.
Erlandson, Julia. (See Johnson, Swan, assignor.)
Evaniuk, Michael, Tottenville, N. Y. Cutting machine. 1,471,025; Oct. 16.
Evans, Edwin B., Providence, R. I., assignor to Waite, Evans Company, Rosary. Des. 63,129; Oct. 16.
Everts Angle Razor Corporation. (See Everts, Walter W., assignor.)
Everts, Walter W., assignor to Everts Angle Razor Corporation, New York, N. Y. Safety razor. 1,471,114; Oct. 16.
Ewell, Charles O., Dyer, Tenn. Shipping crate. 1,471,113; Oct. 16.
Falk, James W., Little Falls, Minn. Tie. 1,471,251; Oct. 16.
Falvet, Felix E., Paris, France. High-speed tool and making the same. 1,471,252; Oct. 16.
Farmer, Clyde C., Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Angle-cock device. 1,471,115; Oct. 16.
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Door and brake control equipment. 1,471,116; Oct. 16.
Farrell, A. M. (See Farrell, John J., assignor.)
Farrell, John J., Lawrence, Mass., assignor to A. M. Farrell, Philadelphia, Pa. Locking device. 1,470,823; Oct. 16.
Ferrodesherbeuse Schenchzer Societe Anonyme. (See Scheuchzer, Auguste, assignor.)
Fiedler, Louis, assignor to Benjamin Gross Company, Inc., New York, N. Y. Finger ring or article of similar nature. Des. 63,130; Oct. 16.
Fiek, Walter H., New York, N. Y., assignor to The Rosenthal China Corporation. Plate or similar articles. Des. 63,131; Oct. 16.
Fiek, Walter H., New York, N. Y., assignor to The Rosenthal China Corporation. Plate or similar article. Des. 63,132; Oct. 16.
Fields, Gordon B., Jacksonville, Fla. Type-slug-casting apparatus. 1,471,253; Oct. 16.
Fisk Rubber Company, The. (See Shaw, Myron R., assignor.)
Fix, Frank, Irwin, Pa., assignor to Westinghouse Electric and Manufacturing Company. Safety knife switch. 1,470,717; Oct. 16.
Flood, Thomas F., et al. (See Clarke, Charles E., assignor.)
Flory Carry Iron Company. (See Rink, George W., assignor.)
Forbes, Archibald W., Santo Domingo, Santo Domingo Republic, West Indies. Ball or roller bearing. 1,471,254; Oct. 16.
Forbes Lithograph Manufacturing Company. (See Kohl, William H., assignor.)
Forsyth, Albert E., Greenbush, Ontario, Canada. Gear. 1,470,718; Oct. 16.
Foss, James L., Los Angeles, Calif. Derrick hook. 1,471,117; Oct. 16.
Fowler, Preston, Gordon, Nebr. Auxiliary air valve. 1,471,255; Oct. 16.
Fox, Lewis D., Fort Worth, Tex. Automobile title abstract and identification system. 1,470,604; Oct. 16.
Frank, Benjamin M., New York, assignor to Greenpoint Metallic Bed Co., Brooklyn, N. Y. Ornament for bedstead frames. Des. 63,142; Oct. 16.
Frank, Benjamin M., New York, assignor to Greenpoint Metallic Bed Co., Brooklyn, N. Y. Ornament for bedstead frames. Des. 63,143; Oct. 16.
Frank, Benjamin M., New York, assignor to Greenpoint Metallic Bed Co., Brooklyn, N. Y. Ornament for bedstead frames. Des. 63,144; Oct. 16.
Frank, Benjamin M., New York, assignor to Greenpoint Metallic Bed Co., Brooklyn, N. Y. Ornament for bedstead frames. Des. 63,145; Oct. 16.
Frank, Benjamin M., New York, assignor to Greenpoint Metallic Bed Co., Brooklyn, N. Y. Ornament for bedstead frames. Des. 63,146; Oct. 16.
Franklin Railway Supply Company. (See Peters, Frank R., assignor.)
Fraser, Warren F., Westboro, Mass. Grinding machine. 1,470,605; Oct. 16.
Frederick, John C., Bethlehem, Pa. Sprayer. 1,471,256; Oct. 16.
Freeman, Edgar H., Trenton, N. J., assignor to E. H. Freeman Electric Company. Electrical connector device. 1,470,824; Oct. 16.
Freeman Electric Company, E. H. (See Freeman, Edgar H., assignor.)
French, Laurence E., Sebastopol, Calif. Fuel-vaporizing system. 1,470,967; Oct. 16.
Fried. Krupp Aktiengesellschaft. (See Bohle, Karl, assignor.)
Fritz, Lewis, Chicago, Ill. Brush. 1,470,825; Oct. 16.
Funnell, Christopher E. (See Garrett, A. O., Funnell, and Hoffman.)
Gage, Samuel, Holloway, London, England, assignor to The London General Omnibus Company, Limited, Broadway, Westminster, England. Passenger vehicle. 1,471,151; Oct. 16.
Gambill, William M., Merkel, Tex. Impression and cast retainer. 1,470,826; Oct. 16.
Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for plying up tire fabric. Re15,699; Oct. 16.
Gannon, John H., Tucson, Ariz. Liquid-fuel purifier. 1,470,719; Oct. 16.
Garey, George E., Downs, Kans. Bearing burning-in attachment. 1,470,722; Oct. 16.
Gargan, Charles L., and J. E. Leinen, assignors to C. D. Leonard, Rochester, N. Y. Stovepipe damper. 1,470,619; Oct. 16.
Garrett, Arthur O., San Diego, C. E. Funnell, and W. L. Hoffman, Los Angeles, Calif. Slotting machine. 1,470,721; Oct. 16.
Garren, George S., Oak Park, assignor to Sargent Company, Chicago, Ill. Water gauge. 1,470,720; Oct. 16.
Gearitts, Mae H., Marinette, Wis. Percolator-handle protector. 1,471,257; Oct. 16.
General Electric Company. (See Bennett, Frank S., assignor.)
General Electric Company. (See Braud, Frederick F., assignor.)
General Electric Company. (See Dreyer, William P., assignor.)
General Electric Company. (See Emmet, William L. R., assignor.)
General Electric Company. (See Hobart, Henry M., assignor.)
General Electric Company. (See Ver Planck, William E., assignor.)
General Electric Company. (See Warren, Henry E., assignor.)
General Petroleum Corporation. (See Prutzman, P. W., and von Bibra, assignors.)
General Pressed Metal Company. (See Banes, Walter D., assignor.)
George, Charles H., Framington, Mass. Ventilating attachment for windows. 1,470,606; Oct. 16.
Gething, Enoch, assignor of one-half to G. F. Tetlow, Manchester, England. Attachment for securing the work to the tables of planing, milling, and like machines. 1,471,118; Oct. 16.
Gilbert, Arthur S., assignor to W. & T. Avery, Limited, Birmingham, England. Residue weigher. 1,470,829; Oct. 16.
Giles, William H., Burton-upon-Trent, England. Horseshoe. 1,471,119; Oct. 16.
Gilliles, William R., assignor to Union Asbestos & Rubber Company, Chicago, Ill. Heat-insulating tape. 1,470,723; Oct. 16.
Ginsberg, Louis, Minneapolis, Minn. Pencil-point protector. 1,470,724; Oct. 16.
Gwatkin, Benjamin. (See Randall, Roland V. and V. E., assignors.)
Glines, Mae, Chicago, Ill. Douche apparatus and toilet attachment. 1,471,258; Oct. 16.
Goddard, Frederick M., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Selectively-operated circuit-controlling device. 1,470,725; Oct. 16.
Godfrey-Evans, Lewis T., West Norwood, London, England. Carburetor for internal-combustion engines. 1,470,820; Oct. 16.
Godfrey, Oscar M., assignor to Davis & Furber Machine Company, North Andover, Mass. Machine for picking and burring wool, etc. 1,470,827; Oct. 16.
Going, George G., Middletown, Conn., assignor, by mesne assignments, to The Noiseless Typewriter Company. Typewriting machine. 1,471,152; Oct. 16.
Going, George G., Middletown, Conn., assignor, by mesne assignments, to The Noiseless Typewriter Company, Inc. Typewriting machine. 1,471,153; Oct. 16.
Goldman, Sigmund L., Chicago, Ill. Bottle cover. 1,471,120; Oct. 16.
Goldich, Morris L. (See Levitt, Nathan V., assignor.)
Golum Fur Novelty Co. (See Dean, William F., assignor.)

Gooch, Stapleton D., Plant City, Fla. Producing fertilizer. 1,470,968; Oct. 16.
Good, Edward E., Bluffton, Ohio. Gear puller. 1,471,259; Oct. 16.
Goodrich, B. F., Company, The. (See Gammeter, John R., assignor.)
Goodrich, B. F., Company, The. (See Nied, Fred A., assignor.)
Gorman, John W., East Syracuse, N. Y. Side bumper for vehicles. 1,470,828; Oct. 16.
Goss, Herbert C., Beach Haven, Pa. Battery cabinet. 1,470,917; Oct. 16.
Graham, James P., Kansas City, Mo. Wall hanger for plumbing fixtures. 1,471,154; Oct. 16.
Grant, Frank, Westfield, Mass. Jack. 1,470,830; Oct. 16.
Grasnick, Louis W., New York, N. Y. Suspenders. 1,471,121; Oct. 16.
Grassier, Annie. (See Stone, Charles S., assignor.)
Gratt, Emil, assignor to Oscar C., Wertheimer, Watertown, Wis. Vehicle tire. 1,470,726; Oct. 16.
Greaves, Alfred J., Peckham, London, England. Device for facilitating the carving of meat, poultry, and the like. 1,471,122; Oct. 16.
Green, Joshua, Hove, England. Gramophone. 1,470,831; Oct. 16.
Greene, Mary B., New Orleans, La. Making artificial flowers. 1,470,969; Oct. 16.
Greenbaum, Henry L. (See Simon, Leo, assignor.)
Greenpoint Metallic Bed Co. (See Frank, Benjamin M., assignor.)
Greiner, Otto R., Pequannock, N. J. Gas torch. 1,471,123; Oct. 16.
Greunke, William H. (See Richards, Alexander J., assignor.)
Griffin, Fred L., Bozeman, Mont. Combination stepladder and stool. 1,471,155; Oct. 16.
Grimmer, Austin S., Brooklyn, N. Y. Bill holder. 1,470,918; Oct. 16.
Griswold, Albert A., Providence, R. I. Roll-roofing fastener. 1,471,156; Oct. 16.
Groff, Angus R., Birmingham, Ala. Front-fender brace. 1,470,970; Oct. 16.
Groff, Howard M. (See Buch, P. H., and Groff.)
Gross, Benjamin, assignor to Benjamin Gross Company, Inc., New York, N. Y. Finger ring or article of similar nature. Des. 63,133; Oct. 16.
Gross, Benjamin, Company. (See Fiedler, Louis, assignor.)
Gross, Benjamin, Company. (See Gross, Benjamin, assignor.)
Grossenbacher, Ernest, Fajardo, P. R. Automatic regulator. 1,470,971; Oct. 16.
Gruber, Frank A., assignor to Wire Wheel Corporation of America, Buffalo, N. Y. Wheel. 1,471,157; Oct. 16.
Gruss, Lucien R., assignor to Pneumatic Cushion Co., San Francisco, Calif. Vehicle frame suspension. 1,470,972; Oct. 12.
Gunn, William A., Grand Rapids, Mich. Making desk or like tops. 1,471,026; Oct. 16.
Gunning, William A. (See Maynard, A. E., and Gunning.)
Haas, Hermann, Lennep, Germany. Drying apparatus. 1,470,919; Oct. 16.
Halberstadt, Heinrich. (See Clossman, J., and Halberstadt.)
Hale, Joshua B., assignor to Textile Engineering Company, Providence, R. I. Braiding-machine carrier. 1,470,920; Oct. 16.
Hall, Eric E., Chicago, Ill. Ceiling and floor construction. 1,470,727; Oct. 16.
Hall, Eric E., Chicago, Ill. Suspended ceiling. 1,470,728; Oct. 16.
Hall, Eric E., Chicago, Ill. Form for concrete works. 1,470,729; Oct. 16.
Hall, Thomas. (See Owen, A. B., and Hall.)
Hancock, William J., Idaho Springs, Colo. Fluid-pressure liquid-pumping device. 1,470,973; Oct. 16.
Handl, Egon, Amsterdam, Netherlands. Means for connecting ferro or reenforced concrete piles to wooden piles. 1,471,124; Oct. 16.
Hanford, Orrin A., Pasadena, Calif. Hand tool for opening bottles and cans. 1,471,027; Oct. 16.
Hanker, Frederic C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric regulator system. 1,470,730; Oct. 16.
Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,470,666; Oct. 16.
Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,470,667; Oct. 16.
Hapgood, Cyrus H., New York, N. Y., assignor to G. P. Carroll, Hartford, Conn. Refrigerating machine. 1,471,125; Oct. 16.
Harbaugh, Harry E., C. F. Buquo, and G. F. Spaeth, Cincinnati, Ohio; said Buquo and said Spaeth assignors to said Harbaugh. Moving-picture-film protector. 1,470,975; Oct. 16.
Hardinge Brothers, Inc. (See Hardinge, Franklin, assignor.)
Hardinge, Franklin, assignor to Hardinge Brothers, Inc., Chicago, Ill. Valve. 1,470,974; Oct. 16.
Hartford Rubber Works Company, The. (See Steinle, William J., assignor.)
Harrington, William F., Toledo, Ohio, assignor to The Willys-Overland Company. Change-speed gearing for automobiles. 1,470,976; Oct. 16.
Harris, Hiram D., Norcross, Ga. Window shade and curtain support. 1,470,833; Oct. 16.
Harris, Rutherford B., Oceanpark, Calif. Lock-fold expanding indexing ticket file. 1,470,832; Oct. 16.
Harper Bean Limited. (See Hey, G., and Wilding, assignors.)
Hart, Franklin H., assignor to C. Cowles and Company, New Haven, Conn. Vehicle door handle. 1,471,126; Oct. 16.
Hartman, Harry B., assignor to Electric Water Sterilizer and Ozone Company, Scottdale, Pa. Mixer for ozone water-purifying apparatus. 1,471,260; Oct. 16.
Hartner, Fritz, Homburg, Germany. Manufacturing a mortar-forming material from anhydrite. 1,470,731; Oct. 16.
Harvey, Hubbell, Incorporated. (See Newton, William J., assignor.)
Hasselbach, Albert E., Detroit, Mich. Electric heater. 1,470,834; Oct. 16.
Hathaway, Harlow H., El Paso, Tex. Article for producing keys in cement work. 1,470,835; Oct. 16.
Hayes, Harvey C., New London, Conn., assignor to Submarine Signal Company, Portland, Me. Sound detection. 1,470,733; Oct. 16.
Haworth, Albert, assignor to Brogdex Company, Winterhaven, Fla. Apparatus for treating fruit and the like. 1,470,732; Oct. 16.
Hazell, John S., assignor to Unchokeable Pump, Limited, London, England. Impeller for centrifugal pumps. 1,470,607; Oct. 16.
Heath, Sidney J., Johnson City, N. Y. Counter-molding machine. 1,471,261; Oct. 16.
Heer, Otto F., Ontario, Calif. Pipe mold. 1,471,262; Oct. 16.
Heimstädt, Oskar, Vienna, Austria. Stereoscopic eyepiece for microscopes. 1,470,670; Oct. 16.
Heintz, Ernest E., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Torsion-spring tension regulator. 1,470,977; Oct. 16.
Helcher, William C., Akron, Ohio. Pouring spout for vessels. 1,470,978; Oct. 16.
Helke, Benjamin, Glencoe, Ill. Violin bridge. 1,470,734; Oct. 16.
Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Testing machine for piston rings and the like. 1,470,668; Oct. 16.
Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,470,669; Oct. 16.
Henke, John, New Haven, Conn. Smokestick. 1,471,127; Oct. 16.
Hercules Products Company. (See Rushton, E. T., and Berry, assignors.)
Hey, George, St. Margarets-on-Thames, and J. A. Wilding, London, England, assignor to Harper Bean Limited, London, England. Multiple-spindle drill head. 1,470,735; Oct. 16.
Hilaire, Rodolphe S., Montreal, Quebec, Canada. Gas cock. 1,470,979; Oct. 16.
Hill, Reuben, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Lead-measuring machine for gauges. 1,470,836; Oct. 16.
Hillbom, Henrik, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Teapot or similar article. Des. 63,134; Oct. 16.
Himmelright, Raleigh J., Englewood, N. J., assignor to American Arch Company. Fire-box arch and arch brick. 1,470,736; Oct. 16.
Hindahl, David. (See Hoscelt, W. J., and Hindahl.)
Hine, Tredick K., Newington, Conn. Fitting-up bolt. 1,470,608; Oct. 16.
Hiser, Charles H., assignor to The Springfield Metallic Casket Company, Springfield, Ohio. Burial case. Des. 63,147; Oct. 16.
Hiser, Charles H., assignor to The Springfield Metallic Casket Company, Springfield, Ohio. Ear for handles for burial cases. Des. 63,148; Oct. 16.
Hobart, Henry M., Schenectady, N. Y., assignor to General Electric Company. Electrical apparatus. 1,471,263; Oct. 16.
Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Oil stove. 1,470,738; Oct. 16.
Hoffman, William L. (See Garrett, A. O., Funnell, and Hoffman.)
Hofstatter, William J., assignor of one-half to H. E. Resener, Toledo, Ohio. Composition shingle. 1,470,837; Oct. 16.
Hodge, Karl. (See Johnson, Carl W., assignor.)
Hodgdon, Lewis S., Bangor, Me. Price-exhibiting device. 1,470,609; Oct. 16.
Hodgkins, Charles H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Starting mechanism for automobiles. 1,470,737; Oct. 16.
Hogenson, William, Chicago, assignor to Chicago Vitreous Enamel Product Company, Cicero, Ill. Charging fork for enameling furnaces. 1,471,028; Oct. 16.
Holland, Joseph L., Shepparton, Victoria, Australia. Grading machine principally for fruit. 1,471,128; Oct. 16.
Holmes, Lawrence, Los Angeles, Calif. Adjustable power earth auger. 1,470,838; Oct. 16.
Holmes, Thomas J., Chicago, Ill. Journal lubricator. 1,470,739; Oct. 16.

Holophane Glass Company. (See Dorey, William A., assignor.)
Holt, Daniel S., Mittineague, Mass. Recording mechanism. 1,471,129; Oct. 16.
Holt, Harold E. S., Farnborough, England. Parachute apparatus. 1,470,610; Oct. 16.
Hooper, James P., Ruxton, Md. Padding. 1,471,029; Oct. 16.
Hornberger, Willis R., East Cleveland, Ohio. Hinge. 1,471,158; Oct. 16.
Hoscelt, William J., and D. Hindahl, assignors to Rodger Ballast Car Company, Chicago, Ill. Dump-car construction. 1,470,980; Oct. 16.
Hosch, Greene C., assignor to The Measuregraph Company, St. Louis, Mo. Auxiliary chart computing machine. 1,470,839; Oct. 16.
Hosch, Greene C., assignor to The Measuregraph Company, St. Louis, Mo. Indicating means for measuring machines. 1,470,840; Oct. 16.
Hose, Titus S., Little Falls, N. Y. Polishing wheel. 1,470,740; Oct. 16.
Hottel, Louis W., Chicago, Ill. Pneumatic tire. Des. 63,135; Oct. 16.
House, Henry A., jr., Springfield, Mass., assignor to Wire Wheel Corporation of America, Buffalo, N. Y. Forming nipple sockets in wheel rims. 1,471,160; Oct. 16.
House, Henry A., jr., assignor to Wire Wheel Corporation of America, Buffalo, N. Y. Wheel. 1,471,161; Oct. 16.
Howard, James H., Los Angeles, Calif. Tire-inflating apparatus for automobiles. 1,471,264; Oct. 16.
Howe, E. D., et al. (See Dibble, C. W., and Phillips.)
Howe Scale Company. (See Sonander, Andrew, assignor.)
Howell, Frank R. (See Entwisle, E. F., Howell, and Leach.)
Howie, Kenneth, assignor to Wildman Mfg. Co., Norristown, Pa. Take-up mechanism for knitting machines. 1,470,741; Oct. 16.
Howie, Thomas, and A. J. Jackson, Battle Creek, Mich. Joint member for screen frames and the like. 1,471,159; Oct. 16.
Huber, Andrew, Sterling, Ill. Coaster. 1,470,921; Oct. 16.
Hudson, Norman H. (See Sarrey, P., and Hudson.)
Hugh, Percy G. H., Southend, England. Brake mechanism for motor vehicles. 1,470,620; Oct. 16.
Hughen, James C., Winnfield, La. Barber-cloth pin. 1,471,265; Oct. 16.
Hughes, Frank C., Oak Park, Ill. Apparatus for throwing liquids. 1,471,130; Oct. 16.
Hulse, Edison G., assignor to Kelly-Springfield Tire Company, Cumberland, Md. Resilient tire. 1,470,922; Oct. 16.
Hume, Joseph P. (See Rooney, W. T., and Hume.)
Hundeby, Martin L., San Francisco, Calif. Protective casing for tires. 1,471,266; Oct. 16.
Hunter, Samuel B., Tacoma, Wash. Money-changing machine. 1,470,841; Oct. 16.
Hutchison, Alfred, administrator. (See Cleary, Edwin.)
Hyams Harry T., De Kalb, Tex. Fish lure. 1,470,842; Oct. 16.
Hydraulic Steel Company, The. (See Kranz, Harry W., assignor.)
Iacobacci, Domenico, Cleveland, Ohio. Multiple-speed drive mechanism. 1,471,162; Oct. 16.
Ibach, Emil, assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Metal wheel. 1,470,742; Oct. 16.
Ibach, Peter, Koenigswinter, Germany. Switch-actuating device. 1,471,163; Oct. 16.
Ikle, Charles F., New York, N. Y. Embroidered fabric. Des. 63,136; Oct. 16.
Impol, Woldmar H., New York, N. Y. Sign holder. 1,471,164; Oct. 16.
Industrial Controller Company. (See Van Valkenburg, Hermon L., assignor.)
Ingalls, Perry E., Chicago, Ill. Hypodermic-needle base. 1,470,981; Oct. 16.
Ingersoll-Rand Company. (See Jimerson, Francis A., assignor.)
Ingersoll-Rand Company. (See Jones, Joseph W., assignor.)
Ingle, Arthur H. (See Trosch, Alfred, assignor.)
Ingram, Joseph A., Atlantic City, N. J. Machine for rolling piston rings. 1,470,743; Oct. 16.
International Postal Supply Company, The. (See Reoch, George H., assignor.)
Israel, Lester L. (now by judicial change of name Lester L. Jones), New York, N. Y. Radioreception. 1,471,165; Oct. 16.
Israel, William, Wilkes-Barre, Pa. Lamp-supporting attachment for miners' caps. 1,470,923; Oct. 16.
Jackson, Arthur. (See Howie, T., and Jackson.)
Jackson Compressor Company, The. (See Jackson, Henry O., assignor.)
Jackson, Henry O., Denver, Colo., assignor to The Jackson Compressor Company. Stuffing box. 1,470,621; Oct. 16.
Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam boiler. 1,470,744; Oct. 15.
Jammer, Jacob S., assignor to Western Electric Company, Incorporated, New York, N. Y. Repeater circuits. 1,470,982; Oct. 16.
Jankus, Jack C. (See Otto, S., and Jankus.)
Jayne, Nellie F., Brooklyn, N. Y. Lifeboat. 1,470,983; Oct. 16.
Jimerson, Francis A., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid-actuated tie tamper. 1,470,622; Oct. 16.
Johnson, Bengt A., Duluth, Minn. Holding device. 1,470,843; Oct. 16.
Johnson, Carl W., Onaway, Mich., assignor of one-half to K. Hodge, Poughkeepsie, N. Y. Steering wheel. 1,470,623; Oct. 16.
Johnson, Charles E., Muskegon, Mich. Automatic piston-ring lathe. 1,471,032; Oct. 16.
Johnson, Charles E., Muskegon, Mich. Mechanism for machining out-of-round piston-ring castings. 1,471,030; Oct. 16.
Johnson, Charles E., Muskegon, Mich. Molding machine. 1,471,033; Oct. 16.
Johnson, Edgar D., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling circuits. 1,470,984; Oct. 16.
Johnson, Hans, Port Jefferson Station, N. Y. Sewage-disposal apparatus. 1,470,745; Oct. 16.
Johnson, Johan H., Salt Lake City, Utah. Educational appliance. 1,470,845; Oct. 16.
Johnson, Kenneth S., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,470,985; Oct. 16.
Johnson, Kenneth S., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Means and method for signaling. 1,470,986; Oct. 16.
Johnson, Otto, Jamestown, N. Y. Curtain rod. 1,470,844; Oct. 16.
Johnson, Swan, assignor of one-half to J. Erlandson, Richwood, W. Va. Friction fire escape. 1,470,746; Oct. 16.
Johnston, George H., assignor to Lover Top and Converter Company, Inc., Buffalo, N. Y. Automobile top. 1,470,624; Oct. 16.
Johnston, Greenhow, Richmond, Va. Revolving shutter for moving-picture-projecting machines. 1,471,031; Oct. 16.
Jones, Charles A., Sewickley, Pa. Headlight. 1,471,166; Oct. 16.
Jones, Joseph W., Corning, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Plate valve. 1,470,625; Oct. 16.
Jones, Lester L. (See Israel, Lester L.)
Jones, Paul K., Clinton, Mo. Shock absorber. 1,471,267; Oct. 16.
Jordan, Robert E., jr., Halls, Tenn. Rope clamp. 1,471,034; Oct. 16.
Josted, Carl M., Milwaukee, Wis. Radiator circulating system. 1,470,846; Oct. 16.
Juley, Joseph P., Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Coin collector. 1,470,747; Oct. 16.
Jung, Henry, Bloomer, Wis. Fruit protector. 1,471,167; Oct. 16.
Jury, Alfred E., Rutherford, N. J., assignor to Morgan & Wright, Tire and fabric therefor. 1,470,924; Oct. 16.
Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Ignition switch. Re15,700; Oct. 16.
Kamenstein, Meyer, New York, N. Y. Cash box. 1,470,749; Oct. 16.
Kaminski, Paul, Berlin-Pankow, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Apparatus for the long-distance adjustment of guns and the like. 1,470,748; Oct. 16.
Karns, Walter E., assignor of one-eighth to M. A. Wallace, Indianapolis, Ind. Gas producing and cooling device. 1,470,847; Oct. 16.
Karns, Walter E., Cincinnati, Ohio, assignor of one-eighth to M. A. Wallace, Indianapolis, Ind. Producing gas. 1,470,848; Oct. 16.
Katz, Benjamin, Oakland, Calif. Headrest for automobile seats and the like. 1,471,168; Oct. 16.
Kaufmann, Joseph, Pittsburgh, Pa. Garment pocket. 1,470,987; Oct. 16.
Kaye, Frederick, Ashton-upon-Mersey, England. Apparatus for the production of designs in paper, millboard, vegetable leather substitute, and linoleum substitute. 1,471,169; Oct. 16.
Kaye, Frederick, Ashton-upon-Mersey, England. Apparatus for the production of designs in paper, millboard, vegetable leather substitute, and linoleum substitute. 1,471,170; Oct. 16.
Keenan, Annie R., Pittsburgh, Pa. Detachable trimming for low shoes. 1,471,035; Oct. 16.
Kellogg Switchboard and Supply Company. (See Kaisling, William, assignor.)
Kelly-Springfield Tire Company. (See Hulse, Edison G., assignor.)
Kelly-Springfield Tire Company. (See Slauson, Harold W., assignor.)
Kelly, Walter E., Highland Park, Mich. Detachable tire carrier. 1,471,268; Oct. 16.
Kendall, Donald S. (See Novotny, E. E., and Kendall.)
Kibbe Brothers Company. (See Cleeland, Robert J., assignor).
Kirby, John, jr. (See Wilcke, O. C. F., and Kirby.)
Klappert, Bessie, Whitestone Landing, N. Y. Convertible garment. 1,470,849; Oct. 16.

Klauser, William C., Hartford, Conn. Shipping receptacle. 1,470,750; Oct. 16.
Klein, Eugene, S. Klein, and M. Klein, South Pasadena, Calif. Coat hanger. 1,470,925; Oct. 16.
Klein, Fred E. (See Rosenthal, Morris G., assignor.)
Klein, Morris. (See Klein, E., S., and M.)
Klein, Samuel. (See Klein, E., S., and M.)
Klug & Smith Company. (See Klug, Lebrecht J., assignor.)
Klug, Lebrecht J., assignor to Klug & Smith Company, Milwaukee, Wis. Traffic-regulator signal casing. Des. 63,137; Oct. 16.
Kluth, Charles F., Wibaux, Mont. Grain saver. 1,471,269; Oct. 16.
Knapp, William F., Denver, Colo. Hasp lock. 1,470,751; Oct. 16.
Knell, Charles H., Verona, assignor to Verona Tool Works, Pittsburgh, Pa. Anticreeping device for railway rails. 1,471,171; Oct. 16.
Knight, Lewis F., Simpson, Kans. Metal air-check-valve. 1,471,172; Oct. 16.
Knudsen, Carl H., Brooklyn, N. Y., assignor to The Knudsen Motor Corporation, Wilmington, Del. Internal-combustion engine. 1,470,752; Oct. 16.
Knudsen, Carl H., Brooklyn, N. Y., assignor to The Knudsen Motor Corporation, Wilmington, Del. Piston construction. 1,470,753; Oct. 16.
Knudsen Motor Corporation, The. (See Knudsen, Carl H., assignor.)
Knudsen, Peter M., New York, N. Y. Skylight. 1,470,926; Oct. 16.
Koerner, Ewald, Dresden, Germany, assignor to United Cigarette Machine Co., Inc., Lynchburg, Va. Device for regulating the cut of rod-forming cigarette machines. 1,470,927; Oct. 16.
Kohl, William H., Melrose, assignor to Forbes Lithograph Manufacturing Company, Boston, Mass. Display stand. 1,471,310; Oct. 16.
Komorous, Joseph, Riverside, assignor to Parisian Novelty Company, Chicago, Ill. Support for thermometers. 1,471,037; Oct. 16.
Komorous, Joseph, Riverside, assignor to Parisian Novelty Company, Chicago, Ill. Thermometer. 1,471,036; Oct. 16.
Komusin, Helene, geb. Liedtke, Berlin, Germany. Rolling stamp with counting device for various printing purposes. 1,470,928; Oct. 16.
Kranz, Harry W., assignor to The Hydraulic Steel Company, Cleveland, Ohio. Disk wheel. 1,470,626; Oct. 16.
Kühne, Georg A. R., assignor to the Firm of Maschinen- und Wellenlager Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Liner, bush, and the like for bearings and pedestals. 1,470,754; Oct. 16.
Kuller, John A., Brooklyn, N. Y. Terminal for electric conductor wires. 1,471,173; Oct. 16.
Kurtz, Maurice L. (See Miller, M., and Kurtz.)
Kuzell, Charles R., Clarkdale, Ariz. Making iron and steel from smelter slags. 1,471,270; Oct. 16.
Laabs, Max A., assignor to American Optical Company, Southbridge, Mass. Spacing member used in forming bifocal lenses. 1,470,988; Oct. 16.
Largy, James F., assignor to J. W. Murkland Company, Barton, Vt. Automatic shellacking machine. 1,470,850; Oct. 16.
Lamplugh, Henry A., Tyseley, near Birmingham, England. Handlebar for cycles and motor cycles. 1,470,627; Oct. 16.
Landey, Arney, Grand Rapids, Minn. Pressure gauge. 1,471,174; Oct. 16.
Lane, Victor E., assignor to Michigan Smelting and Refining Company, Detroit, Mich. Die-casting machine. 1,470,755; Oct. 16.
Lang, Alexander R. (See Christie, J., and Lang.)
Lankenau Hospital. (See Miller, Albert G., assignor.)
Lanning, John G., assignor to Detroit Lubricator Company, Detroit, Mich. Fuelizer. 1,470,756; Oct. 16.
Latour, Marius, Paris, France. Device for high-frequency signaling. 1,470,628; Oct. 16.
Lauterbach, Alexander B., Philadelphia, Pa., assignor to The De Luxe Brush Company, Wilmington, Del. Safety razor. 1,470,757; Oct. 16.
Lawhead, William T., Cainesville, Mo. Hog-trough guard. 1,470,629; Oct. 16.
Lawson, David L., Orby, Calif. Lubricating device. 1,471,038; Oct. 16.
Lawrence, Jessie B., La Crosse, Wis. Garment. 1,470,851; Oct. 16.
Leach, Lester L. (See Entwisle, E. F., Howell, and Leach.)
Lee, Alexander F., Cambridge, Mass. Broiler. 1,471,039; Oct. 16.
Leinen, Joseph E. (See Gargan, C. L., and Leinen.)
Lennartson, John A., St. Paul, Minn. Crate. 1,471,040; Oct. 16.
Lennartz, Garfield P. (See Lords, T. J., and Lennartz.)
Leonard, Charles D. (See Gargan, C. L., and Leinen, assignors.)
Le Tourneau, Robert G., Stockton, Calif. Scraper. 1,470,853; Oct. 16.
Levitt, Nathan Y., assignor of one-half to M. L. Goldich, Philadelphia, Pa. Bunion shield. 1,471,041; Oct. 16.
Lewis, Alonza E., Ingersoll, Ontario, Canada. Resilient heel. 1,471,042; Oct. 16.
Lewis, Frank J., and L. B. Brown, Huntsville, Ala. Convertible furniture. 1,471,175; Oct. 16.
Lewis, Fred K., Ashtabula, Ohio. Top for vehicles and the like. 1,470,852; Oct. 16.
Lindgren, Bror J., assignor to Niagara Machine & Tool Works, Buffalo, N. Y. Machine for bending pipes. 1,471,176; Oct. 16.
Linke, Oscar W. (See Steiert, A. F., and Linke.)
Little, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Rheostat. 1,470,758; Oct. 16.
Lively, Marion L., Atlanta, Ga. Rat trap. 1,470,854; Oct. 16.
London General Omnibus Company, The. (See Gage, Samuel, assignor.)
Long, Charles R., assignor to Champion Blower & Forge Company, Lancaster, Pa. Drill chuck. 1,471,271; Oct. 16.
Loofbourow, J. T., et al. (See Dibble, C. W., and Phillips, assignors.)
Lords, Thaddeus J., and G. P. Lennartz, assignors to Sears, Roebuck and Co., Chicago, Ill. Roofing machine. 1,471,043; Oct. 16.
Lorenson, Carl, Davenport, assignor to Lorenson Harvester Company, La Claire, Iowa. Mower. 1,470,989; Oct. 16.
Lorenson Harvester Company. (See Lorenson, Carl, assignor.)
Lorimer, John W., San Francisco, Calif. Control lever. 1,471,272; Oct. 16.
Lott, William O., Columbus, Ohio. Brake shoe. 1,471,273; Oct. 16.
Loundagin, Lawson, A., Crane, Oreg. Holder for magneto contacts. 1,470,993; Oct. 16.
Lover, Edward, assignor to Lover Top & Converter Co., Inc., Buffalo, N. Y. Convertible inclosure for vehicles. 1,470,689; Oct. 16.
Lover, Edward, assignor to Lover Top and Converter Co. Inc., Buffalo, N. Y. Convertible enclosure for vehicles. 1,470,690; Oct. 16.
Lover Top & Converter Co. (See Lover, Edward, assignor.)
Lover Top and Converter Company, Inc. (See Johnston, George H., assignor.)
Lovejoy, Orson A. (See Ovenshire, Elijah A., assignor.)
Lovejoy, Ralph M., Meredith, N. H. Frame for automobiles. 1,471,044; Oct. 16.
Lucas, Francis F., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Manufacturing insulating material. 1,470,990; Oct. 16.
Ludwig, George, assignor to R. Williamson & Company, Chicago, Ill. Chandelier. 1,470,855; Oct. 16.
Lundberg, Bernhard, Chicago, Ill. Card-display frame. 1,470,856; Oct. 16.
Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,470,991; Oct. 16.
Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,470,992; Oct. 16.
Lupo, Joseph, jr., New York, N. Y. Nail buffer. 1,470,857; Oct. 16.
Lyon, Leonidas N., Houston, Tex. Door fastener. 1,471,177; Oct. 16.
McAllister, John E. (See Patton, J. F., and McAllister.)
McBerty, Frank R., Evanston, Ill., assignor, by mesne assignments, to Western Electric Company, Incorporated. Automatic telephone-exchange system. 1,470,664; Oct. 16.
McCarley, Clark V., Toledo, Ohio. Device for feeding moist air and steam to carburetors. 1,470,692; Oct. 16
McConnell, Lert, Grand River, Iowa. Combined damper and spark-deflecting device. 1,470,930; Oct. 16.
McCredie, Reid J., Buffalo, N. Y. Dimmer for headlights. 1,471,046; Oct. 16.
McCroskey, Harry E. (See McConnell, A. B., and McCroskey.)
McKahin, Herbert B., assignor to Deere & Company, Moline, Ill. Marker device for planters. 1,471,182; Oct. 16.
McKinley, Charles W., assignor to The Willys-Overland Company, Toledo, Ohio. Tire or wheel carrier. 1,470,996; Oct. 16.
McIntosh, Frederick P., East Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph recorder. 1,470,633; Oct. 16.
McConnell, Andrew B., and H. E. McCroskey, Omaha, Nebr. Recording attachment for scales. 1,471,181; Oct. 16.
McCrary, Pierce R., Lakeland, Fla., assignor of one-half to C. H. R. Woodward, Portsmouth, N. H. Motor-driven plow. 1,471,180; Oct. 16.
McCready, Joseph H. (See Cornwell, E. E., and McCready.)
McCullough, Frank S., San Francisco, Calif. Egg case. 1,471,311; Oct. 16.
Maginnes, Joseph R., Sandy City, Utah. Scraper. 1,471,178; Oct. 16.
Malan, Gordon T., assignor to A. Mecky Company, Philadelphia, Pa. Coaster brake with back-pedaling device. 1,471,274; Oct. 16.
Mahr, Julius A., Minneapolis, Minn. Supplemental cover for baby-carriage hoods. 1,470,630; Oct. 16.
Manley & Barlow. (See Cherry, Lester A., assignor.)

Manning, Maxwell & Moore. (See Williston, Belvin T., assignor.)
Marion, Edonard A., Paris, France. Ribbon-holding device. 1,470,631; Oct. 16.
Marotz, Max, Ashton, assignor of one-half to A. H. Wilkie, Idaho Falls, Idaho. Grain drill. 1,471,179; Oct. 16.
Marshall, Charles H., jr., Wilmerding, Pa., assignor to Westinghouse Electric & Manufacturing Company. Recording device. 1,470,691; Oct. 16.
Martin, William H., New York, N. Y., assignor to American Telephone and Telegraph Company. Equallizing transmission. 1,470,632; Oct. 16.
Maschinen- und Wellenlager Gesellschaft mit beschränkter Haftung. (See Kühne, Georg A. R., assignor.)
Mason, James B., jr., Nashville, Tenn. Toilet articles. 1,470,994; Oct. 16.
Maupin, Dexter W., and R. C. Teegarden, Boulder, Colo. Pipe coupler. 1,471,045; Oct. 16.
Maxwell, Maxwell C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock structure. 1,470,858; Oct. 16.
Maynard, Albert E., and W. A. Gunning, Southbridge, Mass., assignors to American Optical Company. Edging machine. 1,470,995; Oct. 16.
Measuregraph Company, The. (See Hosch, Green C, assignor.)
Mecky, A., Company. (See Malan, Gordon T., assignor.)
Meed, James E., Palestine, W. Va. Combined cover and spout for vessels. 1,470,693; Oct. 16.
Meed, James E., Palestine, W. Va. Saw-setting tool. 1,470,694; Oct. 16.
Meeks, J. G., et al. (See Dibble, C. W., and Phillips, assignors.)
Melero, Luciano, Owensmouth, Calif. Animal trap. 1,471,047; Oct. 16.
Menger, August, San Antonio, Tex. Automatic battery water-supplying device. 1,471,048; Oct. 16.
Metal Forms Corporation. (See Trester, Herault A., assignor.)
Metcalf, Florence D. (See Rogers, Joseph S., assignor.)
Metzger, Myer, Chicago, Ill. Food-display cover. 1,470,859; Oct. 16.
Meuer, George J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. 1,470,860; Oct. 16.
Meyer, Henry C., Black Jack, Mo. Tying machine. 1,470,861; Oct. 16.
Meyer, Peter, St. Paul, Minn. Liquid brake. 1,471,186; Oct. 16.
Michigan Smelting and Refining Company. (See Ambrose, Joseph, assignor.)
Michigan Smelting and Refining Company. (See Lane, Victor E., assignor.)
Miles, Arthur, Kansas City, Mo. Means for repairing tubes. 1,471,184; Oct. 16.
Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company. Structural-steel frame for dynamo-electric machines. 1,470,695; Oct. 16.
Mills, Herbert S. (See Sandell, Henry K., assignor.)
Miller, Albert G., assignor to Lankenau Hospital, Philadelphia, Pa. Shield for electrical apparatus. 1,471,183; Oct. 16.
Miller, Charles F., assignor to Chicago Shoe Machinery Company, Chicago, Ill. Leather-stitching machine. 1,470,997; Oct. 16.
Miller, Louis A., assignor to Winchester Repeating Arms Co., New Haven, Conn. Handlamp switch. 1,471,185; Oct. 16.
Miller, Murry, New York, N. Y., and M. L. Kurtz, Bogota, N. J. Hand bag. Des. 63,138; Oct. 16.
Minnick, William L., jr. (See Summer, W. C., and Minnick.)
Minville, Wilfrid J., Manville, R. I. Loom heddle frame. 1,470,862; Oct. 16.
Mitchell, John, and J. C. G. Cossey, London, England. Coupling for railway and like vehicles. 1,471,049; Oct. 16.
Mitton-Braley Aeroplane Control Company. (See Mitton, Robert E., assignor.)
Mitton, Robert E., assignor to Mitton-Braley Aeroplane Control Company, Salt Lake City, Utah. Aeroplane control. 1,470,998; Oct. 16.
Miyazaki, Koji. (See Yokosawa, K., and Miyazaki.)
Moneuse, Elie J., Palisade, N. J. Toaster. 1,471,275; Oct. 16.
Montag, Christopher F., assignor to Blue Island Specialty Company, Blue Island, Ill. Box. 1,471,050; Oct. 16.
Montgomery Ward & Co. (See Zint, Frank W., assignor.)
Moore, William D., assignor to American Cast Iron Pipe Company, Birmingham, Ala. Centrifugal refractory mold and prepating the same. 1,471,053; Oct. 15.
Moore, William D., assignor to American Cast Iron Pipe Company, Birmingham, Ala. Method of and apparatus for centrifugally casting metal bodies. 1,471,052; Oct 16.
Moore, William D., assignor to American Cast Iron Pipe Company, Birmingham, Ala. Mold-facing device. 1,471,051; Oct.
Moore, William D., assignor to American Cast Iron Pipe Company, Birmingham, Ala. Producing centrifugal castings with a protective coating. 1,471,054; Oct. 16.
Morgan & Wright. (See Jury, Alfred E., assignor.)
Morganstern, Alice, New York, N. Y. Bloomers. 1,470,999; Oct. 16.
Morgner, Carl G., Chicago, Ill. Window screen. 1,471,187; Oct. 16.
Morris, Fred C., assignor of one-half to A. A. Rector, San Francisco, Calif. Brake-band silencing pad. 1,470,864; Oct. 16.
Morse, Clyde V., Galesburg, Ill. Pump. 1,470,863; Oct. 16.
Muehlberg, Karl O., Manitowoc, Wis. Apparatus for resurfacing bearings. 1,470,635; Oct. 16.
Mulford, Frank B., St. Louis, Mo., and J. D. Dickinson, Chicago, Ill.; said Dickinson assignor to said Mulford. Computing mechanism. 1,471,000; Oct. 16.
Muller, Olga P., and A. P. Popoff, Flushing, N. Y., assignors to Decorative Arts League, Jersey City, N. J. Andiron. Des. 63,139; Oct. 16.
Murkland, J. W., Company. (See Largy, James F., assignor.)
Murphy, Eugene B. (See Pratt, H., Elliott, and Murphy.)
Mustard, Lewis W., jr., et al. (See Chase, Henry A., assignor.)
Musted, George G., Glasgow, Scotland. Clamp. 1,471,188; Oct. 16.
Myers, F. E., & Brother Company, The. (See Myers, Philip A., assignor.)
Myers, Hubert A., assignor to The Hubert A. Myers Company, Toledo, Ohio. Method and apparatus for forming sheet glass. 1,471,189; Oct. 16.
Myers, Hubert A., assignor to The Hubert A. Myers Company, Toledo, Ohio. Producing soft ferrous metal castings. 1,471,190; Oct. 16.
Myers, Hubert A., Company, The. (See Myers, Hubert A., assignor.)
Myers, Philip A., assignor to The F. E. Myers & Brother Company, Ashland, Ohio. Power head for operating piston rods of pumps. 1,470,634; Oct. 16.
National Company. (See Ready, William A., assignor.)
National Metal Molding Company. (See Phillips, George E., assignor.)
Naugatuck Chemical Company, The. (See Shepard, M. G., and Adams, assignors.)
Neff, John P., East Orange, N. J., assignor to American Arch Company. Fire-box arch and arch bricks therefor. 1,470,697; Oct. 16.
Neiley, Jewett F., Endicott, N. Y. Stamping attachment for hide splitters. 1,471,192; Oct. 16.
Nelson, Andrew J., Milwaukee, Wis. Coupling. 1,471,055; Oct. 16.
Nelson, Andrew J., and E. M. Nelson, St. Paul, Minn. Boat-propelling device. 1,470,865; Oct. 16.
Nelson, Elmer M. (See Nelson, Andrew J. and E. M.)
Nelson, Harry W., Chicago, Ill. Therapeutic lamp. 1,470,698; Oct. 16.
Niagara Machine & Tool Works. (See Lingdren, Bror J., assignor.)
Nicholson, Samuel W., assignor to The Willys-Overland Company, Toledo, Ohio. Seat construction. 1,471,001; Oct. 16.
Nicolson, Alexander M., assignor to Western Electric Company, Incorporated, New York, N. Y. Television. 1,470,696; Oct. 16.
Niebler, Hilda A., Racine, Wis. Display cap hanger. 1,471,191; Oct. 16.
Nied, Fred A., Akron, Ohio., assignor to The B. F. Goodrich Company, New York, N. Y. Pneumatic tire. Des. 63,140; Oct. 16.
Nevins, Vergil O. (See Nevins, Verna A. and V. O.)
Nevins, Verna A. and V. O., Hooker, Okla. Guard for gasoline lamps. 1,471,193; Oct. 16.
New Jersey Patent Company. (See McIntosh, Frederick P., assignor.)
Newhouse, Frank, Denver, Colo. Advertising frame. 1,470,866; Oct. 16.
Newsom, John F., Palo Alto, Calif. Time-controlled electric switch. 1,470,867; Oct. 16.
Newton, William J., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Switch. 1,470,868; Oct. 16.
Noble, Albert E., Anniston, Ala. Car truck. 1,470,869; Oct. 16.
Noiseless Typewriter Company, The. (See Going, George G., assignor.)
Nolan, Edmund, and C. W. Walters, Detroit, Mich. Grease-gun filler. 1,471,056; Oct. 16.
Nordman, Anna C., Kirkwood, Mo. Detachable fusee and torpedo holder for railway lanterns. 1,471,194; Oct. 16.
Nordström, Otto, Sundsvall, Sweden. Recovering valuable products from gases. 1,471,276; Oct. 16.
Normandin, Louis A., Swansea Center, Mass. Power attachment for automobiles. 1,470,636; Oct. 16.
Northern, Joseph B., Dallas, Tex. Radiator cap for motor vehicles. 1,471,195; Oct. 16.
Novotny, Emil E., Logan, Pa., and D. S. Kendall, Glen Ridge, N. J., assignors to J. S. Stokes, Huntingdon Valley Post Office, Pa. Acetylene-aldehyde fusible resin. 1,470,637; Oct. 16.
O'Bannon Company. (See Smith, Paul S., assignor.)
Oil Products Appliance Co. (See Wyckoff, Andrew D., assignor.)
Olney, B. C., et al. (See Adams, Frank A., assignor.)

Olsen, Halften E., Chicago, Ill., assignor, by mesne assignments, to F. C. Austin Machinery Company. Controller for street sprinklers or flushers. 1,470,699; Oct. 16.
Osterdahl, Lennart, and H. G. Cowling, Fairfax, Wash. Crosscut saw. 1,470,871; Oct. 16.
Otto, Stuart, and J. C. Jankus, Scranton, Pa.; said Jankus assignor to said Otto. Absorbing still for refrigerating apparatus. 1,470,638; Oct. 16.
Owen, Alden B., and T. Hall, Ridgway, Pa. Field frame. 1,471,196; Oct. 16.
Ovenshire, Elijah A., assignor, by mesne assignments, of one-half to O. A. Lovejoy, Los Angeles, Calif. Educational game appliance. 1,470,872; Oct. 16.
Oxley, John H., Haverhill, Mass. Sheet-metal bin. 1,471,197; Oct. 16.
Parisian Novelty Company. (See Komorous, Joseph, assignor.)
Parish, Le Grand, Mountainview, N. J., assignor to American Arch Company, New York, N. Y. Locomotive fire box. 1,470,700; Oct. 16.
Parks, Fred M., Murraysville, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. 1,470,759; Oct. 16.
Parker, Charles A., jr., Columbia, Tenn. Automobile cook stove. 1,471,198; Oct. 16.
Parker, Frank B., Robinson, Kans. Wrench for automobile parts. 1,471,277; Oct. 16.
Parys, Andy, Mount Vernon, Ohio. Glass machinery. 1,471,002; Oct. 16.
Patton, James F., and J. E. McAllister, Cleveland, Ohio; said McAllister assignor to said Patton. Milling machine for continuous milling. 1,470,873; Oct. 16.
Peller, Charles, Okmulgee, Okla. Hose attachment. 1,470,639; Oct. 16.
Pelletier, John B., Old Forge, N. Y. Fishing Reel. 1,470,640; Oct. 16.
Pelton, Clyde S., Cleveland Heights, assignor to The Perfection Heater and Manufacturing Company, Cleveland, Ohio. Heater for motor-propelled vehicles. 1,471,312; Oct. 16.
People of the United States. (See Adams, Elliot Q.)
People of the United States, The. (See Sherman, J. M., and Shaw.)
Perfecilte Manufacturing Co. (See Dose, Charles C., assignor.)
Perfection Heater and Manufacturing Company. (See Pelton, Clyde S., assignor.)
Perkins, Alfred J., Hamburg, N. Y. Shock absorber. 1,470,931; Oct. 16.
Perlick, Lee F., Los Angeles, Calif. Miter box. 1,471,003; Oct. 16.
Perras, Harmidos, Dayville, Conn. Sewing machine. 1,470,932; Oct. 16.
Perrault, Rodolphe, Montreal, Quebec, Canada. Demountable rim for automobiles. 1,471,278; Oct. 16.
Peters, Frank R., New York, N. Y., assignor to Franklin Railway Supply Company. Mounting for locomotive booster motors. 1,470,760; Oct. 16.
Peters, Frank R., New York, N. Y., assignor to Franklin Railway Supply Company. Locomotive booster motor-controlling mechanism. 1,470,761; Oct. 16.
Petersen, Albert O., Slater, Wyo. Weather strip for doors. 1,470,874; Oct. 16.
Phelan, Louis A. M., Chicago, Ill. Switch. 1,471,199; Oct. 16.
Phillips, George E., Baden, assignor to National Metal Molding Company, Pittsburgh, Pa. Manufacture of flexible metallic tubing, armored cable, and like products. 1,471,057; Oct. 16.
Phillips, Leonard D., Eagle Point, Wis. Wrench. 1,471,200; Oct. 16.
Phillips, Marion. (See Dibble, C. W., and Phillips.)
Plauson, Hermann, Hamburg, Germany. Manufacture of acetaldehyde of acetic acid. 1,471,058; Oct. 16.
Plauson, Hermann, Hamburg Germany. Manufacture of rubber and ebonite substitutes. 1,471,059; Oct. 16.
Pochila, Franz, assignor of one-half to S. Babic, Duqesne, Pa. Surface-dressing machine. 1,470,641; Oct. 16.
Pollock, William B., Company, The. (See Reilly, Edgar J., assignor.)
Popoff, Andrew P. (See Muller, O. P., and Popoff.)
Pneumatic Cushion Co. (See Gruss, Lucien R., assignor.)
Pratt & Whitney Company. (See Blood, Bryant H., assignor.)
Pratt & Whitney Company. (See Buckingham, Earle, assignor.)
Pratt & Whitney Company. (See Hill, Reuben, assignor.)
Pratt, Haraden, San Francisco, H. F. Elliott, Palo Alto, and E. B. Murphy, Burlingame, assignors to A. Taylor, San Francisco, Calif. Radiotelegraph signaling system. 1,471,319; Oct. 16.
Prutzman, Paul W., and C. J. von Bibra, assignors to General Petroleum Corporation, Los Angeles, Calif. Producing and material for the treatment of oils. 1,471,201; Oct. 16.
Pugliese, Angelo, New York, N. Y. Nonskid tread for vehicle wheels. 1,471,202; Oct. 16.
Raggis, Joe, Los Angeles, Calif. Cover support for motor vehicles. 1,471,279; Oct. 16.
Rail Joint Company, The. (See Disbrow, Clarkson, A., assignor.)
Randall, Roland V. and V. E., Battle Creek Mich., assignors of one-third to B. Gwatkin. Railway tie. 1,471,060; Oct. 16.
Randall, Victor E., Battle Creek, Mich. Railway tie. 1,471,203; Oct. 16.
Randall, Victor E. (See Randall, Roland V. and V. E.)
Ready, William A., Brookline, assignor to National Company, Cambridge, Mass. Clamp support. 1,470,642; Oct. 16.
Rector, Adam A. (See Morris, Fred C., assignor.)
Reekers, Andrew, Portland, Oreg. Trolling spoon. 1,471,280; Oct. 16.
Reeves, Orwell C., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,470,643; Oct. 16.
Reid, James C., Cleveland, and W. C. Taylor, East Cleveland, Ohio. Toe-plate fastener. 1,471,004; Oct. 16.
Reid, John, London, England. Furnace. 1,470,876; Oct. 16.
Reid, John, London, England. Furnace front. 1,470,875; Oct. 16.
Reilly, Edgar J., assignor to The William B. Pollock Company, Youngstown, Ohio. Hot-metal car. 1,471,205; Oct. 16.
Reineman, Edwin A., Pittsburgh, Pa. Lock. 1,471,061; Oct. 16.
Remsnider, George, Belleville, Ill. Stencil-cutting machine. 1,471,204; Oct. 15.
Rencan, Jesse L., Paris, Tex. Combination self-lubricating and germicidal razor hone. 1,470,762; Oct. 16.
Reoch, George H., assignor to The International Postal Supply Company, Brooklyn, N. Y. Printing die. 1,470,644; Oct. 16.
Resener, Harry E. (See Hofstatter, William J., assignor.)
Reynolds, Bismarck, Kansas City, Mo. Window lock. 1,471,206; Oct. 16.
Riblett, Victor T., Shinnston, W. Va. Fine tool. 1,471,062; Oct. 16.
Richards, Alexander J., assignor of one-half to W. H. Greunke, Chicago, Ill. Individual pie container. 1,470,763; Oct. 16.
Rickert-Shafer Company. (See Boehm, Rudolph A., assignor.)
Richter, Charles, New York, N. Y. Chandelier bracket. Des. 63,149; Oct. 16.
Richter, Charles, New York, N. Y. Chandelier bracket. Des. 63,150; Oct. 16.
Riddle, Napoleon B., St. Francisville, La. Sanitary individual saliva ejector. 1,471,207; Oct. 16.
Ries, Elmer F., Harrison Pike, Cincinnati, assignor to M. Schmidt, trustee, for himself, E. F. Ries, E. Neubacher, T. O. Bumiller, and S. Trietsch, Cincinnati, Ohio. Polishing machine. 1,471,281; Oct. 16.
Rinaldi, Nicola. (See Trutta, Cesare, assignor.)
Rink, George W., Cranford, N. J., assignor to Flory Carry Iron Company, St. Louis, Mo. Striking plate and coupler carrier for railway cars. 1,470,877; Oct. 16.
River and Rail Transportation Company. (See Eder, Franz, assignor.)
Roake, Stephen A., Bloomfield, N. J. Bridge construction. 1,471,282; Oct. 16.
Roberts, John J., Louisville, Ky. Portable reciprocating power tool. 1,470,645; Oct. 16.
Roberts, William T. B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,470,646; Oct. 16.
Robinson, Roy H., Chicago, Ill. Tennis racket. 1,470,878; Oct. 16.
Rockoff, Bernard I. and E., Chicago, Ill. Multiple lamp socket. 1,471,208; Oct. 16.
Rockoff, Elias. (See Rockoff, Bernard I. and E.)
Rodger Ballast Car Company. (See Hoscelt, W. J., and Hindahl, assignors.)
Rodriguez, Ramon M., New York, N. Y. Vanity case. 1,470,647; Oct. 16.
Rogers-Jenkins, Arthur. (See de Villiers, Peter G. T., assignor.)
Rogers, Joseph A., Rumney Depot, N. H. Spark plug. 1,471,283; Oct. 16.
Rogers, Joseph S., Greenville, Ala., assignor, by mesne assignments, of one-half to F. D. Metcalf, Johnson City, Tenn. Double plow. 1,470,879; Oct. 16.
Rognile, Fred, Churchs Ferry, N. Dak. Trench mortar. 1,471,063; Oct. 16.
Roncati, Joseph S., Los Angeles, Calif. Trolley wheel. 1,471,064; Oct. 16.
Rooney, William T., and H. P. Hume, Los Angeles, Calif. Front-wheel angle indicator. 1,471,209; Oct. 16.
Rosen, Abraham W., New York, N. Y. Electrical switch. 1,471,210; Oct. 16.
Rossboom, Alfred B., Chicago, Ill. Tobacco moistener. 1,470,880; Oct. 16.
Rosenthal China Corporation, The. (See Fiek, Walter H., assignor.)
Rosenthal, Morris G., assignor of one-half to F. E. Klein, Cincinnati, Ohio. Laundry tag. 1,471,284; Oct. 16.
Roslund, Walter, assignor to The American Coach and Body Company, Cleveland, Ohio. Vehicle window and guard. 1,470,764; Oct. 16.
Rosner, Adolph, assignor to American Bosch Magneto Corporation, Springfield, Mass. Trip lever for oscillating magnetos. 1,470,933; Oct. 16.
Ross, Hollis R., Buffalo, N. Y. Toy airplane. 1,470,934; Oct. 16.
Rouanet, Louis, Ivry-Port, assignor to Compagne D'Applications Mecaniques, Paris, France. Gauge. 1,471,211; Oct. 16.
Royal, Robert R., and D. H. Brown, McComb, Miss. Wheel-quartering gauge. 1,471,285; Oct. 16.

Rush, Allan C., Los Angeles, Calif. Observation, amusement, and utility tower. 1,470,935; Oct. 16.

Rushton, Elmer T., and R. S. Berry, Los Angeles, Calif., assignors to Hercules Products Company, St. Joseph, Mich. Tool for expanding and contracting split wheel rims. 1,471,066; Oct. 16.

Rumbaugh, William B., Bellingham, Wash. Rail joint. 1,471,065; Oct. 16.

Russell, Clarence E., Kirkwood, Mo., assignor, by mesne assignments, to The Corno Mills Company, East St. Louis, Ill. Capping machine. 1,470,881; Oct. 16.

Ryan, John H., Kalamazoo, Mich. Satin white and process of manufacture. 1,470,765; Oct. 16.

Safety Car Heating & Lighting Company, The. (See Tabb, Warner T., assignor.)

Sager Company, J. H. (See Sager, James H., assignor.)

Sager, James H., assignor to J. H. Sager Company, Rochester, N. Y. Bumper. 1,470,648; Oct. 16.

Saginaw Ladder Co., The. (See Stevens, Charles C., assignor.)

Saltzgaber, Harry V. (See Day, William A., assignor.)

Sample, Henry C., Chicago, Ill. Lifter for culinary utensils. 1,471,065; Oct. 16.

Sandell, Henry K., Chicago, Ill., assignor to H. S. Mills. Dynamo-electric machine. 1,471,067; Oct. 16.

Sanner, John A., Page, W. Va. Rail joint. 1,471,068; Oct. 16.

Sargent Company. (See Garren, George S., assignor.)

Sarrey, Paschal and N. H. Hudson, Stoughton, Mass. Advertising device. 1,470,936; Oct. 16.

Sauer, Lena, Hamilton, Ohio. Egg beater and cream whip. 1,470,882; Oct. 16.

Schaffer, Henry J., assignor to J. Schaffer, Brooklyn, N. Y. Sheet-metal container. 1,470,766; Oct. 16.

Schaffer, Jacob. (See Schaffer, Henry J., assignor.)

Schaper, Gustav A., New York, N. Y. Emergency boiler-tube repair plug. 1,470,767; Oct. 16.

Schenchzer, Auguste, assignor to Ferrodesherbeuse Scheuchzer Societe Anonyme, Renens, near Lausanne, Switzerland. Machine for removing weeds from railway roadbeds. 1,470,768; Oct. 16.

Schiff, Herbert, New York, N. Y. Automobile transmission lock. 1,471,212; Oct. 16.

Schling, Max, New York, N. Y. Seed sower. 1,471,291; Oct. 16.

Schmid, Julius, Montgomery, N. Y. Compact carrier. 1,470,884; Oct. 16.

Schmidt, Max, trustee. (See Ries, Elmer F., assignor.)

Schmidt, Robert, Boston, Mass. Chair. 1,471,006; Oct. 16.

Schmidt, Robert, Boston, Mass. Chair. 1,471,007; Oct. 16.

Schmitt, Henry, Detroit, Mich. Piston. 1,471,008; Oct. 16.

Schou, Frank W., Lincoln, Nebr., assignor to V. Schou, Dodge City, Kans. Keyhole guard. 1,470,937; Oct. 16.

Schou, Vane. (See Schou, Frank W., assignor.)

Schuh, Charles H., Brooklyn, N. Y. Cathode for the electrolytic refining of metal. 1,470,883; Oct. 16.

Schumacher, Elmer L., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,471,009; Oct. 16.

Sciortino, Joseph, Youngstown, Ohio. Jar or bottle clamp. 1,471,069; Oct. 16.

Scranton Silk Machine Company. (See Sloat, Karl, assignor.)

Sears, Roebuck and Co. (See Hoffman, Rudolph, assignor.)

Sears, Roebuck and Co. (See Lords, T. J., and Lenmartz, assignors.)

Seiler, Paul W. (See Andersen, A. C., Archer, and Seiler.)

Selvig, John N., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Spinning tool and machine. 1,471,010; Oct. 16.

Semery, Jean M. C., Paris, France. Pneumatic wheel. 1,470,938; Oct. 16.

Severns, William, Chicago, Ill. Mop-cutting machine. 1,470,649; Oct. 16.

Sharpe, Elmer, Hamilton, Ontario, Canada. Passenger-car signal. 1,471,286; Oct. 16.

Shaw, Louis E., East Orange, N. J., assignor to Williams Motors Inc., New York, N. Y. Oil-circulating system. 1,470,769; Oct. 16.

Shaw, Myron R., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Rubber tire. 1,471,070; Oct. 16.

Shaw, Roscoe H. (See Sherman, J. M., and Shaw.)

Shepard, Morris G., New York, N. Y., and H. S. Adams, Naugatuck, Conn., assignors to The Naugatuck Chemical Company. Manufacture of formaldehyde condensation products of aliphatic amines and products obtained thereby. 1,471,213; Oct. 16.

Sherman, Charles H., North Attleboro, Mass. Bracelet. Des. 63,141; Oct. 16.

Sherman, H. B., Manufacturing Company. (See Bliss, Donald M., assignor.)

Sherman, James M., Washington, D. C., and R. H. Shaw, Chicago, Ill., dedicated, by mesne assignments, to the People of the United States. Production of propionates and propionic acid. 1,470,885; Oct. 16.

Sherman, John Q., Dayton, Ohio. Flat-bed manifolding device. 1,471,287; Oct. 16.

Sherman, John Q., Dayton, Ohio. Manifolding paper. 1,471,288; Oct. 16.

Sherman, John Q., Dayton, Ohio. Manifolding machine. 1,471,289; Oct. 16.

Sherwin, George E., Milwaukee, Wis. Clothesline reel. 1,470,886; Oct. 16.

Sieben, George S., Oak Bluffs, Mass. Saw frame or holder. 1,471,214; Oct. 16.

Sieck & Drucker, Inc. (See Sieck, William, jr., assignor.)

Sieck, William, jr., assignor to Sieck & Drucker, Inc., Chicago, Ill. Apparatus for treating liquids or solids with gases. 1,470,887; Oct. 16.

Siedentopf, Henry, assignor to the Firm of Carl Zeiss, Jena, Germany. Tube extension for microscopes. 1,470,770; Oct. 16.

Siemens & Halske Aktiengesellschaft. (See Kaminski, Paul, assignor.)

Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Thallmayer, Ludwig, assignor.)

Sigman, Meyer, Cleveland, Ohio. Rain-water-pipe trap. 1,471,215; Oct. 16.

Siio, Hitosi, Nisikasugai Gun, Japan. Synchronous dynamo-electric machine. 1,470,939; Oct. 16.

Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. 1,470,771; Oct. 16.

Simon, Leo, assignor to H. L. Greenbaum, New York, N. Y. Paste for etching glass. 1,470,772; Oct. 16.

Slauson, Harold W., Hartsdale, assignor to Kelly-Springfield Tire Company, New York, N. Y. Graphic display chart. 1,470,652; Oct. 16.

Sloat, Karl, deceased; L. E. Sloat, administratrix, assignor to Scranton Silk Machine Company, Scranton, Pa. Stop motion. 1,471,292; Oct. 16.

Sloat, Louise E., administratrix. (See Sloat, Karl.)

Small, Byron C., Morris, Ill. Clutch control and governor. 1,470,773; Oct. 16.

Smedley, Victor C., Denver, Colo. Dental impression tray. 1,470,888; Oct. 16.

Smith, Burns L., Syracuse, N. Y. Vehicle wheel. 1,471,011; Oct. 16.

Smith, Edward C. (See Craine, Charles L., assignor.)

Smith, Joseph H., Chicago, Ill. Radiator-cap attachment. 1,471,071; Oct. 16.

Smith, Paul S., assignor, by mesne assignments, to O'Bannon Company, West Barrington, R. I. Method and apparatus for coating and drying fabric and other material. 1,470,650; Oct. 16.

Smith, Willard C. (See Warren, N. J., and Smith, assignors.)

Snook, Homer C., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum pump. 1,471,012; Oct. 16.

Snyder, Charles S., Philadelphia, Pa. Heater. 1,470,940; Oct. 16.

Soenksen, James C., Aurora, Ill. Advertising-sign display equipment for passenger cars. 1,471,216; Oct. 16.

Sonander, Andrew, assignor to Howe Scale Company, Rutland, Vt. Automatic scale. 1,471,072; Oct. 16.

Souder, Howell W., Tamaqua, Pa. Automatic winding means for clock mechanisms. 1,471,314; Oct. 16.

Spaeth, George F. (See Harbaugh, H. E., Buquo, and Spaeth.)

Speed, James B., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmitting device. 1,471,013; Oct. 16.

Spence, William J., Lynn, Mass. Portable lamp. 1,470,774; Oct. 16.

Springfield Metallic Casket Company. (See Hiser, Charles H., assignor.)

Staude, Edwin G., Minneapolis, Minn. Automatic brake control for power-propelled vehicles. 1,470,701; Oct. 16.

Steiert, Alois F., and O. W. Linke, Philadelphia, Pa. Floor polisher. 1,471,217; Oct. 16.

Steiner, Frank M., Minneapolis, Minn., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,470,941; Oct. 16.

Steiner, Frank M., Minneapolis, Minn., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,470,942; Oct. 16.

Steiner, Frank M., Minneapolis, Minn., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,470,943; Oct. 16.

Steiner, Frank M., Minneapolis, Minn., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,470,944; Oct. 16.

Steiner Sales Company. (See Steiner, Frank M., assignor.)

Steinle, William J., Flushing, N. Y., assignor to The Hartford Rubber Works Company. Apparatus for manufacturing tire casings. 1,470,889; Oct. 16.

Stehmetz, Joseph A., Philadelphia, Pa. Disk wheel. 1,471,014; Oct. 16.

Stephens, Percy W., Chicago, Ill. Fuel-reserve system. 1,470,775; Oct. 16.

Stevens, Charles C., assignor to The Saginaw Ladder Co., Saginaw, Mich. Ladder. 1,471,290; Oct. 16.

Stevens, Robert H., near Newalla, Okla. Boll-weevil exterminator. 1,470,945; Oct. 16.

Stevenson, Charles H., assignor to Winchester Repeating Arms Company, New Haven, Conn. Flash-light switch. 1,470,776; Oct. 16.

Stewart-Warner Speedometer Corporation. (See Wheeler, Leonard H., assignor.)

Stewart, William C., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. 1,470,651; Oct. 16.

Stitt, Benton F., et al. (See Clarke, Charles E., assignor.)

Stokes, John S. (See Novotny, Emil E., and Kendall, assignors.)

Stone, Charles S., Bremerton, assignor of one-half to A. Grassier, Seattle, Wash. Adjustable magnifier. 1,470,890; Oct. 16.

Stromberg Motor Devices Company. (See Cole, Don, assignor.)

Stuart, David, Berlin, N. H. Bedplate for beater engines. 1,471,218; Oct. 16.

Sturgis, Charles H., Granville, Ill. Strainer. 1,471,293; Oct. 16.

Sturk, Edwald E., Portland, Me. Sled. 1,470,891; Oct. 16.

Sturtevant, B. F., Company. (See Ellis, Frederic R., assignor.)

Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)

Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air separator. 1,470,892; Oct. 16.

Sullivan, Francis C., Braddock, Pa. Portable clothes drier. 1,470,653; Oct. 16.

Submarine Signal Company. (See Hayes, Harvey C., assignor.)

Sumner, Charles H., Terre Haute, Ind. Truss. 1,470,654; Oct. 16.

Summer, Walter C., and W. L. Minick, jr., Waynesboro, Pa. Combined toilet fan and hair drier. 1,471,294; Oct. 16.

Sun Oil Company. (See Ballard, Albert M., assignor.)

Sutton, Louis D., Portland, Oreg. Roasting pan. 1,417,219; Oct. 16.

Sweeley, Everett M., Boise, Idaho. Cartridge. 1,470,655; Oct. 16.

Sweet, Jeremiah B., Hutchinson, Kans. Shaker. 1,470,893; Oct. 16.

Tabb, Warner T., New York, N. Y., assignor to The Safety Car Heating & Lighting Company. Art and apparatus for lighting. 1,470,777; Oct. 16.

Tabb, Warner T., assignor to Duplex Engine Governor Company, Inc., Brooklyn, N. Y. Operating gear. 1,470,778; Oct. 16.

Tangye, Roy M., Denver, Colo. Carburetor. 1,471,220; Oct. 16.

Tartrais, Eugène H., Maisons-Lafitte, France. Pump for feeding liquid-fuel engines and like purposes. 1,471,221; Oct. 16.

Tatje, Herman, Brooklyn, N. Y. Saw for linter machines. 1,470,779; Oct. 16.

Taylor, Augustus. (See Pratt, H., Elliott, and Murphy, assignors.)

Taylor, William C. (See Reid, J. C., and Taylor.)

Taylor, William M., Mecklenburg County, Va. Wave motor. 1,471,222; Oct. 16.

Teegarden, Raymond C. (See Maupin, D. W., and Teegarden.)

Ternstedt Manufacturing Company. (See Andersen, A. C., Archer, and Seiler, assignors.)

Ternstedt Manufacturing Company. (See Heintz, Ernest E., assignor.)

Tetlow, George F. (See Gething, Enoch, assignor.)

Textile Engineering Company. (See Hale, Joshua B., assignor.)

Thallmayer, Ludwig, Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Balancing of the weight of ropes. 1,470,780; Oct. 16.

Thomas, Phillips, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Rolled condenser. 1,470,781; Oct. 16.

Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake equipment. 1,471,073; Oct. 16.

Throop, Newton A., Chicago, Ill. Vacuum cleaner. 1,470,894; Oct. 16.

Thornton, Ray, New Bedford, Mass. Section beam. 1,470,946; Oct. 16.

Thorp, James M., Alameda, Calif. Six-wheel propelling mechanism for motor vehicles. 1,471,295; Oct. 16.

Tidy, Benjamin H., Brantford, Ontario, Canada. Window-shade-roller mechanism. 1,470,782; Oct. 16.

Toledo Scale Company. (See Chapman, Frank H., assignor.)

Toledo Scale Company. (See Hapgood, Clarence H., assignor.)

Toledo Scale Company. (See Hem, Halvor O., assignor.)

Toledo Scale Company. (See Reeves, Orwell C., assignor.)

Tomlinson, George, Gallatin, Mo. Collapsible trestle. 1,471,223; Oct. 16.

Tompkins, Philip W., San Francisco, Calif. Liquid sampler. 1,471,015; Oct. 16.

Traube, Wilhelm, Berlin, Germany. Production of ethyl chloride. 1,470,656; Oct. 16.

Traum, John, Coshocton, Ohio. Apparatus for vulcanizing tire casings. 1,470,657; Oct. 16.

Trester, Herault A., assignor to Metal Forms Corporation, Milwaukee, Wis. Road form. 1,471,074; Oct. 16.

Trosch, Alfred, assignor to A. H. Ingle, Rochester, N. Y. Power traverse and feed mechanism for planers. 1,471,296; Oct. 16.

Trutta, Cesare, assignor of one-half to N. Rinaldi, New York, N. Y. Food cutter. 1,471,313; Oct. 16.

Tunnicliffe, Charles T., Ann Arbor, Mich. Washing machine. 1,470,702; Oct. 16.

Tyler, Warren C., East Orange, N. J., assignor to Bennington Scale Mfg. Co., Inc., Bennington, Vt. Power-transmission mechanism. 1,470,947; Oct. 16.

U. S. Light & Heat Corporation. (See Bliss, William L., assignor.)

Unchokeable Pump, Limited. (See Hazell, John S., assignor.)

Uni-Form Company. (See Amburgen, Nils F., assignor.)

Union Asbestos & Rubber Company. (See Gillies, William R., assignor.)

United Cigarette Machine Co. (See Koerner, Ewald, assignor.)

United Shoe Machinery Corporation. (See Brock, Matthias, assignor.)

United Shoe Machinery Corporation. (See Brothers, Eli, assignor.)

United Shoe Machinery Corporation. (See Cheney, William G., assignor.)

United Shoe Machinery Corporation. (See Roberts, William T. B., assignor.)

United Shoe Machinery Corporation. (See Stewart, William C., assignor.)

United Shoe Machinery Corporation. (See Yeaton, Harry L., assignor.)

Universal Ash-Tray Company. (See Downey, John H., assignor.)

Vandervoort, Milford T., assignor to Wolverine Brass Works, Grand Rapids, Mich. Automatic closing valve. 1,470,895; Oct. 16.

Van Dorn Electric Tool Company, The. (See Connell, Edwin L., assignor.)

Van Hoose, James B., Springfield, Mo. Locked exhaust valve. 1,471,075; Oct. 16.

Van Horn, Alfred R., deceased, Philadelphia, Pa.; J. S. Van Horn, executrix. Automatic electric generating system. 1,470,948; Oct. 16.

Van Horn, Jennie S., executrix. (See Van Horn, Alfred R.)

Van Tuyl, Thomas. (See Cook, A. E., and Van Tuyl.)

Van Valkenburg, Hermon L., assignor to Industrial Controller Company, Milwaukee, Wis. Starting switch. 1,470,896; Oct. 16.

Verona Tool Works. (See Knell, Charles H., assignor.)

Ver Planck, William E., Schenectady, N. Y., assignor to General Electric Company. Valve gear. 1,471,076; Oct. 16.

Villavicencio, Miguel A., Caracas, Venezuela. Coffee-drying machine. 1,470,703; Oct. 16.

Vincent, Ernest P., New York, N. Y. Kitchen utensil. 1,470,783; Oct. 16.

Vogt Bros. & Squier Company. (See Vogt, Clarence, assignor.)

Vogt, Charles, Chicago, Ill. Locking device. 1,471,077; Oct. 16.

Vogt, Clarence, Wenonah, N. J., assignor to Vogt Bros. & Squier Company, Philadelphia, Pa. Cut-out for vehicle motors. 1,471,078; Oct. 16.

Voltz, Albert G., Tulsa, Okla. Hack saw. 1,470,897; Oct. 16.

Von Bibra, Carl J. (See Prutzman, P. W., and von Bibra.)

Vons, John, Lakewood, Ohio. Steering wheel. 1,470,784; Oct. 16.

Wachtel, Louis. (See David, Ernest, assignor.)

Wacker, Frederick G., Chicago, Ill. Closure for receptacles. 1,471,079; Oct. 16.

Wadsworth, Lawrence H., London, England. Electrically-operated switch and the like. 1,471,080; Oct. 16.

Wagner, Albert, assignor to The Wemb Company, Cincinnati, Ohio. Auxiliary air valve for internal-combustion engines. 1,470,785; Oct. 16.

Wait, Henry H., Chicago, Ill., assignor to The Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. 1,470,786; Oct. 16.

Waite, Evans Company. (See Evans, Edwin B.)

Waite, Harry F., New York, N. Y. Vibrating buckey diaphragm for scattered X-ray radiation. 1,471,081; Oct. 16.

Walker Manufacturing Company. (See Walker, Willard F., assignor.)

Walker, Willard T., assignor to Walker Manufacturing Company, Racine, Wis. Display stand. Des. 63,151; Oct. 16.

Wall, Joseph F., Westfield, N. J. Window screen. 1,470,658; Oct. 16.

Wallace, M. A. (See Karns, Walter E., assignor.)

Wallace, R., & Sons Mfg. Co. (See Hillbom, Henrik, assignor.)

Walters, Charles W. (See Nolan, E., and Walters.)

Wansing, John, Meta, Mo. Plow hitch. 1,471,297; Oct. 16.

Ward, Leonard, Electric Company. (See Bullinger, Frederic H., assignor.)

Warren, Henry E., Ashland, Mass., assignor to General Electric Company. Time switch. 1,471,082; Oct. 16.

Warren, Nelson J., and W. C. Smith, Sioux City, Iowa. Oil-vapor burner. 1,470,787; Oct. 16.

Watson, Rolla B. (See Denny, J. J., and Watson.)

Wayne Tool Manufacturing Company. (See Bellringer, Sidney M., assignor.)

Weaver, William I., Camden, N. J. Padding for the covering of flatwork ironers. 1,471,224; Oct. 16.
Webb, Aubrey B., Cunningham, assignor of one-half to R. O. Willingham, jr., Bardwell, and J. W. Webb, Cunningham, Ky. Foldable egg crate. 1,470,898; Oct. 16.
Webb, John W., et al. (See Webb, Aubrey B., assignor.)
Weeks, Paul T., Caldwell, N. J., assignor to Westinghouse Lamp Company. Ballast tube. 1,470,788; Oct. 16.
Wegenaar, Louis A., Brooklyn, N. Y. Sifter top for containers. 1,471,298; Oct. 16.
Weigele, Edmund. (See Dinafel, W. H., and Weigele.)
Weinman Pump Manufacturing Co., The. (See Bachman, Harry L., assignor.)
Weis, Andrew L., assignor to The Weis Fibre Container Corporation, Monroe, Mich. Making paper or other articles. 1,471,225; Oct. 16.
Weis Fibre Container Corporation, The. (See Weis, Andrew L., assignor.)
Weisinger, Abraham, Newark, N. J. Taximeter. 1,470,949; Oct. 16.
Wells, George F., San Francisco, Calif. Electrical waffle iron. 1,470,899; Oct. 16.
Wemb Co., The. (See Wagner, Albert, assignor.)
Wertheimer, Oscar C. (See Gratt, Emil, assignor.)
West Manufacturing Company. (See West, Merle J., assignor.)
West, Merle J., assignor to West Manufacturing Company, Milwaukee, Wis. Display and dispensing device. 1,470,900; Oct. 16.
Westerfield, Granville G., Indianapolis, Ind. Multifluid carbureter. 1,470,659; Oct. 16.
Western Electric Company. (See Beatty, William E., assignor.)
Western Electric Company. (See Booth, Wilfred E., assignor.)
Western Electric Company. (See Elmen, Gustaf W., assignor.)
Western Electric Company. (See Goddard, Frederick M., assignor.)
Western Electric Company. (See Jammer, Jacob S., assignor.)
Western Electric Company. (See Johnson, Edgar D., assignor.)
Western Electric Company. (See Johnson, Kenneth S., assignor.)
Western Electric Company. (See Juley, Joseph P., assignor.)
Western Electric Company. (See Lucas, Francis F., assignor.)
Western Electric Company. (See Lundell, Alben E., assignor.)
Western Electric Company. (See McBerty, Frank R., assignor.)
Western Electric Company. (See Nicolson, Alexander M., assignor.)
Western Electric Company. (See Selvig, John N., assignor.)
Western Electric Company. (See Snook, Homer C., assignor.)
Western Electric Company. (See Speed, James B., assignor.)
Western Electric Company. (See Williams, Samuel B., jr., assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Air Brake Company, The. (See Thomas, Thomas H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Andersen, Niels K., assignor.)
Westinghouse Electric & Manufacturing Company. (See Boddie, C. A., and Cullings, assignors.)
Westinghouse Electric & Manufacturing Company. (See Boddie, Clarence A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Demmler, Paul E., assignor.
Westinghouse Electric and Manufacturing Company. (See Fix, Frank, assignor.)
Westinghouse Electric & Manufacturing Company. (See Hanker, Frederick C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hodgkins, Charles H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Little, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Parks, Fred M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Simmon, Karl A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Marshall, Charles H., jr., assignor.)
Westinghouse Electric & Manufacturing Company. (See Mills, Chester B., assignor.)
Westinghouse Electric and Manufacturing Company. (See Walt, Henry H., assignor.)
Westinghouse Lamp Company. (See Weeks, Paul T., assignor.)
Wheeler, Leonard H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum feed device. 1,470,704; Oct. 16.
Whisler, John, Gibson, Iowa. Clutch. 1,471,226; Oct. 16.
Whitehead, Thomas C., Detroit, Mich. Tractor wheel. 1,470,901; Oct. 16.
Whitmore, Edward E., assignor to The Curtain Supply Company, Chicago, Ill. Metal shade roller. 1,470,789; Oct. 16.
Wiens, Herman P., York, Nebr. Tire tightener. 1,470,791; Oct. 16.
Wilcox, James G., Bradley, Wis. Spindle-bolt protector. 1,471,227; Oct. 16.
Wilcke, Otto C. F., and J. Kirby, jr., assignors to The Dayton Manufacturing Company, Dayton, Ohio. Shade holder. 1,470,790; Oct. 16.
Wilding, James A. (See Hey, G., and Wilding.)
Wildman Mfg. Co. (See Howie, Kenneth, assignor.)
Wilkie, A. H. (See Marotz, Max, assignor.)
Will, Victor R., Lodi, Calif. Safety device for automobiles. 1,471,016; Oct. 16.
Williams, Edgar R., Addington, Christchurch, New Zealand. Change-speed gear. 1,471,228; Oct. 16.
Williams, Edward H., Eureka, Calif. Combined stop and handle for bore-cleaning rods. 1,471,300; Oct. 16.
Williams, Henry C., Altoona, Pa. Door stop. 1,471,299; Oct. 16.
Williams, Lucas B., Hattiesburg, Miss. Fireplace construction. 1,470,793; Oct. 16.
Williams Motors Inc. (See Shaw, Louis E., assignor.)
Williams, Samuel B., jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,471,017; Oct. 16.
Williams, Samuel B., jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,471,018; Oct. 15.
Williamson, Bartlett R., San Francisco, Calif. Knockdown basket. 1,470,792; Oct. 16.
Williamson, R., & Company. (See Ludwig, George, assignor.)
Willingham, Charles F., Dallas, Tex. Automatic overflow alarm. 1,470,902; Oct. 16.
Willingham, Robert O., jr., et al. (See Webb, Aubrey B., assignor.)
Williston, Belvin T., Somerville, Mass., assignor to Manning, Maxwell & Moore, Inc., New York, N. Y. Check valve. 1,471,229; Oct. 16.
Willys-Overland Company, The. (See Harrington, William F., assignor.)
Willys-Overland Company, The. (See McKinley, Charles W., assignor.)
Willys-Overland Company, The. (See Nicholson, Samuel W., assignor.)
Wilson, Samuel H., Glasgow, Scotland. Anatomical articulator for dental use. 1,471,019; Oct. 16.
Winchester Repeating Arms Company. (See de Olaneta, Harold, assignor.)
Winchester Repeating Arms Co. (See Miller, Louis A., assignor.)
Winchester Repeating Arms Company. (See Stevenson, Charles H., assignor.)
Wingard, Andrew R. and G., Tacoma, Wash. Refrigerated display case. 1,471,083; Oct. 16.
Wingard, Gunnar. (See Wingard, Andrew R. and G.)
Winterhalder, Grace E., Kamloops, British Columbia, Canada. Suspender connection to stockings. 1,471,301; Oct. 16.
Wire Wheel Corporation of America. (See Gruber, Frank A., assignor.)
Wire Wheel Corporation of America. (See House, Henry A., jr., assignor.)
Wolf, Ferd, St. Louis, Mo. Feed-water-level regulator. 1,470,660; Oct. 16.
Wolter, Antone E., Everett, Wash. Automobile signal. 1,471,084; Oct. 16.
Wolverine Brass Works. (See Vandervoort, Milford T., assignor.)
Wood, A. J., Greenville, assignor to Bennett Injector Company, Muskegon, Mich. Barrel-attaching device for grease guns or the like. 1,471,085; Oct. 16.
Woodward, Christopher H. R. (See McCrary, Pierce R., assignor.)
Wright, Herbert C. and W. J., Oak Lake, Manitoba, Canada. Manure remover and spreader. 1,471,302; Oct. 16.
Wright, William D., Lynchburg, Va. Advertising device. 1,471,303; Oct. 16.
Wright, William J. (See Wright, Herbert C. and W. J.)
Wyckoff, Andrew D., Oak Park, assignor to Oil Products Appliance Co., Maywood, Ill. Liquid-dispensing device. 1,471,230; Oct. 16.
Yale & Towne Manufacturing Company, The. (See Maxwell, Maxwell C., assignor.)
Yeaton, Harry L., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of molded-counter turned shoes. 1,470,661; Oct. 16.
Yokosawa, Katsuichi, and K. Miyazaki, Los Angeles, Calif.; said Yokosawa assignor to said Miyazaki. Flytrap. 1,471,086; Oct. 16.
Young, Joseph F., Morristown, N. J. Safety portable scaffold. 1,471,304; Oct. 16.
Yu Chen Lai, New York, N. Y. Sesame flour and making the same. 1,470,929; Oct. 16.
Zahner, Edward J., Laporte, Ind. Metallic door. 1,471,020; Oct. 16.
Zalkind, Philip, New York, N. Y. Container. 1,470,705; Oct. 16.
Zeiss, Firm of Carl. (See Siedentopf, Henry, assignor.)
Zint, Frank W., Springfield, assignor to Montgomery Ward & Co., Inc., Chicago, Ill. Feed mechanism for manure spreaders. 1,471,087; Oct. 16.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF OCTOBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Acetaldehyde or acetic acid, Manufacture of. H. Plauson. 1,471,058; Oct. 16.
Acid, Production of propionates and propionic. J. M. Sherman and R. H. Shaw. 1,470,885; Oct. 16.
Actuating device. W. D. Banes. 1,470,910; Oct. 16.
Advertising device. P. Sarrey and N. H. Hudson. 1,470,936; Oct. 16.
Advertising device. W. D. Wright. 1,471,303; Oct. 16.
Advertising frame. F. Newhouse. 1,470,866; Oct. 16.
Aeroplane control. R. E. Mitton. 1,470,998; Oct. 16.
Air, Apparatus for cooling. F. R. Ellis. 1,471,112; Oct. 16.
Air coupler, Automatic. C. Barnhart. 1,471,231; Oct. 16.
Air separator. T. J. Sturtevant. 1,470,892; Oct. 16.
Airplane. H. L. Coffin. 1,471,243; Oct. 16.
Alarm: *See*—
  Overflow alarm.
Andiron. O. P. Muller and A. P. Popoff. Des. 63,139; Oct. 16.
Animal trap. L. S. Bender. 1,471,090; Oct. 16.
Animal trap. L. Melero. 1,471,047; Oct. 16.
Arc-preventing device. J. Clossmann and H. Halberstadt. 1,471,240; Oct. 16.
Arch support. C. L. Craine. 1,470,618; Oct. 16.
Armor plate and making same. J. L. Cox. 1,470,813; Oct. 16.
Ash tray. J. F. Downey. Re15,698; Oct. 16.
Assembling and lasting machine. W. G. Cheney. 1,470,615; Oct. 16.
Auger, Adjustable power earth. L. Holmes. 1,470,838; Oct. 16.
Automatic controller. F. H. Bullinger. 1,470,907; Oct. 16.
Automatic regulator. E. Grossenbacher. 1,470,971; Oct. 16.
Automobile change-speed gearing. W. F. Harrington. 1,470,976; Oct. 16.
Automobile frame. R. M. Lovejoy. 1,471,044; Oct. 16.
Automobile lock. W. Barnett. 1,470,662; Oct. 16.
Automobile parts, Wrench for. F. B. Parker. 1,471,277; Oct. 16.
Automobile power attachment. L. A. Normandin. 1,470,636; Oct. 16.
Automobile seats and the like, Headrest for. B. Katz. 1,471,168; Oct. 16.
Automobile signal. A. E. Wolter. 1,471,084; Oct. 16.
Automobile starting mechanism. C. H. Hodgkins. 1,470,737; Oct. 16.
Automobile title-abstract and identification system. L. D. Fox. 1,470,604; Oct. 16.
Automobile top. G. H. Johnston. 1,470,624; Oct. 16.
Automobile transmission lock. H. Schiff. 1,471,212; Oct. 16.
Automobiles, Brake mechanism for. C. D. Brown. 1,470,905; Oct. 16.
Automobiles, Bumper support for. A. P. Crell. 1,470,814; Oct. 16.
Automobiles, Demountable rim for. R. Perrault. 1,471,278; Oct. 16.
Automobiles, Safety device for. V. R. Will. 1,471,016; Oct. 16.
Ball-bearing swivel sucker-rod joint. R. E. Cox. 1,471,105; Oct. 16.
Ballast tube. P. T. Weeks. 1,470,788; Oct. 16.
Barber-cloth pin. J. C. Hughen. 1,471,265; Oct. 16.
Basket, Knockdown. B. R. Williamson. 1,470,792; Oct. 16.
Battery cabinet. H. C. Goss. 1,470,917; Oct. 16.
Battery water-supplying device, Automatic. A. Menger. 1,471,048; Oct. 16.
Beam, Section. R. Thornton. 1,470,946; Oct. 16.
Bearing. S. and H. Erdahl. 1,470,966; Oct. 16.
Bearing, Ball or roller. A. W. Forbes. 1,471,254; Oct. 16.
Bearing burning-in attachment. G. E. Garey. 1,470,722; Oct. 16.
Bearing, Pivot. F. H. Chapman. 1,470,665; Oct. 16.
Bearings and pedestals, Liner, bush, and the like for. G. A. R. Kühne. 1,470,754; Oct. 16.
Bearings, Apparatus for resurfacing. K. O. Muehlberg. 1,470,635; Oct. 16.
Bed manifolding device, Flat-. J. Q. Sherman. 1,471,287; Oct. 16.
Bedstead-frame ornament. B. M. Frank. Des. 63,142–6; Oct. 16.
Bill holder. A. S. Grimmer. 1,470,918; Oct. 16.
Bin: *See*—
  Sheet-metal bin.
Bloomers. A. Morganstern. 1,470,999; Oct. 16.
Boat-propelling device. A. J. and E. M. Nelson. 1,470,865; Oct. 16.
Boiler: *See*—
  Steam boiler.
Boiler-tube repair plug, Emergency. G. A. Schaper. 1,470,767; Oct. 16.
Boll-weevil exterminator. R. H. Stevens. 1,470,945; Oct. 16.
Bolt. A. C. Anderson, T. P. Archer, and P. W. Seiler. 1,470,951; Oct. 16.
Bolt, Fitting-up. T. K. Hine. 1,470,608; Oct. 16.
Bottle cover. S. L. Goldman. 1,471,120; Oct. 16.
Bottles and cans, Hand tool for opening. O. A. Hanford. 1,471,027; Oct. 16.
Bottles, tins, jars, containers, and receptacles, Closure for. R. S. Brown. 1,481,139–40; Oct. 16.
Box: *See*—
  Cash box. Miter box.
  Locomotive fire box. Stuffing box.
Box. C. F. Montag. 1,471,050; Oct. 16.
Brace: *See*—
  Fender brace.
Bracelet. C. H. Sherman. Des. 63,141; Oct. 16.
Braiding-machine carrier. J. B. Hale. 1,470,920; Oct. 16.
Brake: *See*—
  Liquid brake. Steering-wheel brake.
Brake-band silencing pad. F. C. Morris. 1,470,864; Oct. 16.
Brake shoe. W. O. Lott. 1,471,273; Oct. 16.
Bridge construction. S. A. Roake. 1,471,282; Oct. 16.
Broiler. A. F. Lee. 1,471,039; Oct. 16.
Brush. L. Fritz. 1,470,825; Oct. 16.
Brush, Fountain shaving. F. E. Ahlering. 1,470,903; Oct. 16.
Bumper. J. H. Sager. 1,470,648; Oct. 16.
Bunion shield. N. Y. Levitt. 1,471,041; Oct. 16.
Burial case. C. H. Hiser. Des. 63,147; Oct. 16.
Burial cases, Ear for handles for. C. H. Hiser. Des. 63,148; Oct. 16.
Burner: *See*—
  Oil-vapor burner.
Burner. E. E. Cornwell and J. H. McCready. 1,471,104; Oct. 16.
Bushing retaining screw and lubricator, Combined. D. M. Bliss. 1,470,801; Oct. 16.
Cabinet, Towel. F. M. Steiner. 1,470,941–4; Oct. 16.
Camera. G. W. Blum. 1,470,708; Oct. 16.
Cap hanger, Display. H. A. Niebler. 1,471,191; Oct. 16.
Capping machine. C. E. Russell. 1,470,881; Oct. 16.
Car construction, Dump-. W. J. Hoscelt and D. Hindahl. 1,470,980; Oct. 16.
Car for containers, Automatically-locking flat. F. Eder. 1,471,111; Oct. 16.
Car, Hot-metal. E. J. Reilly. 1,471,205; Oct. 16.
Car signal, Passenger-. E. Sharpe. 1,471,286; Oct. 16.
Car truck. A. E. Noble. 1,470,869; Oct. 16.
Cars, Advertising-sign display equipment for passenger. J. C. Soenksen. 1,471,216; Oct. 16.
Cars, Striking plate and coupler carrier for railway. G. W. Rink. 1,470,877; Oct. 16.
Carburetor. D. Cole. 1,470,616; Oct. 16.
Carburetor. R. M. Tangye. 1,471,220; Oct. 16.
Carburetor for internal-combustion engines. L. T. Godfrey-Evans. 1,470,820; Oct. 16.
Carburetor, Multifluid. G. G. Westerfield. 1,470,659; Oct. 16.
Carburetors, Device for feeding moist air and steam to. C. V. McCarley. 1,470,692; Oct. 16.
Card-display frame. B. Lundberg. 1,470,856; Oct. 16.
Cardcase. C. B. Cook. 1,470,709; Oct. 16.
Carriage hoods, Supplemental cover for baby-. J. A. Mahr. 1,470,630; Oct. 16.
Carrier: *See*—
  Braiding-machine carrier. Tire carrier.
  Compact carrier.
Cartridge. E. M. Sweeley. 1,470,655; Oct. 16.
Case: *See*—
  Egg case. Vanity case.
  Refrigerated display case.
Cash box. M. Kamenstein. 1,470,749; Oct. 16.
Casket, Burial. W. J. Blen. 1,471,023; Oct. 16.
Casket, Burial. R. D. Cook. 1,471,244; Oct. 16.
Caster, Swivel. J. L. Chesnutt. 1,471,307; Oct. 16.
Casting metal bodies, Method of and apparatus for centrifugally. W. D. Moore. 1,471,052; Oct. 16.
Castings, Mechanism for machining out-of-round piston ring. C. E. Johnson. 1,471,030; Oct. 16.

Castings, Producing soft ferrous metal. H. A. Myers. 1,471,190; Oct. 16.
Castings with protective coating, Producing centrifugal. W. D. Moore. 1,471,054; Oct. 16.
Cathode for the electrolytic refining of metal. C. H. Schuh. 1,470,883; Oct. 16.
Ceiling and floor construction. E. E. Hall. 1,470,727; Oct. 16.
Ceiling, Suspended. E. E. Hall. 1,470,728; Oct. 16.
Cell, Dry. H. de Olaneta. 1,470,915; Oct. 16.
Cementitious composition, Preparing a. J. H. Amies. 1,470,674; Oct. 16.
Cementwork, Article for producing keys in. H. H. Hathaway. 1,470,835; Oct. 16.
Chair. R. Schmidt. 1,471,006–7; Oct. 16.
Chandelier. G. Ludwig. 1,470,855; Oct. 16.
Chandelier bracket. C. Richter. Des. 63,149–50; Oct. 16.
Chart, Graphic display. H. W. Slauson. 1,470,652; Oct. 16.
Chucks, Drill-guide attachment for. L. G. Bowman. 1,471,137; Oct. 16.
Cigarette machines, Device for regulating the cut of rod-forming. E. Koerner. 1,470,927; Oct. 16.
Circuit-controlling device, Selectively-operated. F. M. Goddard. 1,470,725; Oct. 16.
Circuits, Repeater. J. S. Jammer. 1,470,982; Oct. 16.
Circuits, Signaling. E. D. Johnson. 1,470,984; Oct. 16.
Clamp: *See*—
Hand clamp. Rope clamp.
Clamp. G. G. Musted. 1,471,188; Oct. 16.
Clamp support. W. A. Ready. 1,470,642; Oct. 16.
Cleaner: *See*—
Vacuum cleaner.
Cleaning apparatus. P. E. Demmler. 1,470,712; Oct. 16.
Cleaning rods, Combined stop and handle for bore-. E. H. Williams. 1,471,300; Oct. 16.
Clock mechanisms, Automatic winding means for. H. W. Souder. 1,471,314; Oct. 16.
Clothes drier, Portable. F. C. Sullivan. 1,470,653; Oct. 16.
Clothesline reel. G. E. Sherwin. 1,470,886; Oct. 16.
Clutch. J. Whisler. 1,471,226; Oct. 16.
Clutch control and governor. B. C. Small. 1,470,773; Oct. 16.
Coaster. A. Huber. 1,470,921; Oct. 16.
Coaster brake with back-pedaling device. G. T. Malan. 1,471,274; Oct. 16.
Coat hanger. E., S., and M. Klein. 1,470,925; Oct. 16.
Coating and drying fabric and other material, Method and apparatus for. P. S. Smith. 1,470,650; Oct. 16.
Cock device, Angle-. C. C. Farmer. 1,471,115; Oct. 16.
Cock, Gas. R. S. Hilaire. 1,470,979; Oct. 16.
Coffee-drying machine. M. A. Villavicencio. 1,470,703; Oct. 16.
Coin collector. J. P. Juley. 1,470,747; Oct. 16.
Coin slot. P. G. T. de Villiers. 1,470,599; Oct. 16.
Compact carrier. J. Schmid. 1,470,884; Oct. 16.
Computing machine, Auxiliary chart. G. C. Hosch. 1,470,839; Oct. 16.
Computing mechanism. F. B. Mulford and J. D. Dickinson. 1,471,000; Oct. 16.
Concrete and like structures, Form for molding. J. Christie and A. R. Lang. 1,471,239; Oct. 16.
Concrete piles to wooden piles, Means for connecting ferro or reenforced. E. Handl. 1,471,124; Oct. 16.
Concrete work, Form for. E. E. Hall. 1,470,729; Oct. 16.
Condenser, Rolled. P. Thomas. 1,470,781; Oct. 16.
Container. P. Zalkind. 1,470,705; Oct. 16.
Container, Sheet-metal. H. J. Schaffer. 1,470,766; Oct. 16.
Containers, Sifter top for. L. A. Wegenaar. 1,471,298; Oct. 16.
Control apparatus. K. A. Simmon. 1,470,771; Oct. 16.
Control, System of. F. M. Parks. 1,470,759; Oct. 16.
Cooking utensil. D. D. Dorrance. 1,470,963; Oct. 16.
Cookstove, Automobile. C. A. Parker, jr. 1,471,198; Oct. 16.
Counter-molding machine. S. J. Heath. 1,471,261; Oct. 16.
Counter, Resetting. H. A. Chase. 1,471,306; Oct. 16.
Coupling: *See*—
Sucker-rod coupling.
Coupling. A. J. Nelson. 1,471,055; Oct. 16.
Crane hook. W. R. Bloss. 1,471,094; Oct. 16.
Crate. F. C. Bartlett. 1,471,232; Oct. 16.
Crate. J. A. Lenhartson. 1,471,040; Oct. 16.
Crate, Shipping. C. O. Ewell. 1,471,113; Oct. 16.
Culinary utensils, Lifter for. H. C. Sample. 1,471,005; Oct. 16.
Cultivator, Motor. F. Brown. 1,471,138; Oct. 16.
Curtain rod. O. Johnson. 1,470,844; Oct. 16.
Cutter: *See*—
Food cutter.
Cutting machine. M. Evaniuk. 1,471,025; Oct. 16.
Cycles and motor cycles, Handlebars for. H. A. Lamplugh. 1,470,627; Oct. 16.
Damper and spark-deflecting device, Combined. L. McConnell. 1,470,930; Oct. 16.
Damper, Stovepipe. C. L. Gargan and J. E. Leinen. 1,470,619; Oct. 16.
Dental impression tray. V. C. Smedley. 1,470,888; Oct. 16.
Dental use, Anatomical articulator for. S. H. Wilson. 1,471,019; Oct. 16.
Dentifrice. V. V. J. Andresen. 1,470,794; Oct. 16.
Derrick hook. J. L. Foss. 1,471,117; Oct. 16.
Desk or like tops, Making. W. A. Gunn. 1,471,026; Oct. 16.
Die: *See*—
Printing die.
Die-casting machine. J. Ambrose. 1,470,672; Oct. 16.
Die-casting machine. V. E. Lane. 1,470,755; Oct. 16.
Direction indicator. G. A. Cummings. 1,470,617; Oct. 16.
Disk wheel. H. W. Kranz. 1,470,626; Oct. 16.
Disk wheel. J. A. Steinmetz. 1,471,014; Oct. 16.
Dispatch apparatus, Pneumatic-. W. H. Dinspel and E. Weigele. 1,470,600; Oct. 16.
Display and dispensing device. M. J. West. 1,470,900; Oct. 16.
Display device. R. J. Cleeland. 1,470,688; Oct. 16.
Display stand. W. H. Kohl. 1,471,310; Oct. 16.
Display stand. W. T. Walker. Des. 63,151; Oct. 16.
Ditcher and grader. S. T. Cook. 1,470,959; Oct. 16.
Door and brake control equipment. C. C. Farmer. 1,471,116; Oct. 16.
Door fastener. L. N. Lyon. 1,471,177; Oct. 16.
Door, Metallic. E. J. Zahner. 1,471,020; Oct. 16.
Door stop. H. C. Williams. 1,471,299; Oct. 16.
Douche apparatus and toilet attachment. M. Glines. 1,471,258; Oct. 16.
Drier: *See*—
Clothes drier.
Drill: *See*—
Grain drill.
Drill chuck. C. B. Long. 1,471,271; Oct. 16.
Drive mechanism, Multiple-speed. D. Iacobacci. 1,471,162; Oct. 16.
Drying apparatus. H. Haas. 1,470,919; Oct. 16.
Dyestuffs, Preparation of. K. Dziewonski. 1,471,150; Oct. 16.
Edging machine. A. E. Maynard and W. A. Gunning. 1,470,995; Oct. 16.
Educational appliance. J. H. Johnson. 1,470,845; Oct. 16.
Egg beater and cream whip. L. Sauer. 1,470,882; Oct. 16.
Egg case. F. S. McCullough. 1,471,311; Oct. 16.
Egg crate, Foldable. A. B. Webb. 1,470,898; Oct. 16.
Electric-circuit breaker, Automatic. J. Clossmann and H. Halberstadt. 1,471,241; Oct. 16.
Electric-conductor wires, Terminal for. J. A. Kuller. 1,471,173; Oct. 16.
Electric generating system, Automatic. A. R. Van Horn. 1,470,948; Oct. 16.
Electric heater. A. E. Hasselbach. 1,470,834; Oct. 16.
Electric machine, Dynamo-. H. K. Sandell. 1,471,067; Oct. 16.
Electric machine, Dynamo-. H. H. Wait. 1,470,786; Oct. 16.
Electric machines, Structural-steel frame for dynamo-. C. B. Mills. 1,470,695; Oct. 16.
Electric regulator system. F. C. Hanker. 1,470,759; Oct. 16.
Electric switch. E. L. Connell. 1,471,308; Oct. 16.
Electric switch. G. J. Meier. 1,470,860; Oct. 16.
Electric switch, Time-controlled. J. F. Newsom. 1,470,867; Oct. 16.
Electrical apparatus. F. F. Brand. 1,471,096; Oct. 16.
Electrical apparatus. H. M. Hobert. 1,471,263; Oct. 16.
Electrical apparatus, Shield for. A. G. Miller. 1,471,183; Oct. 16.
Electrical connector device. E. H. Freeman. 1,470,824; Oct. 16.
Electrical distribution, System of. W. L. Bliss. 1,471,093; Oct. 16.
Electrical switch. A. W. Rosen. 1,471,210; Oct. 16.
Electrical-wave transmission system. W. E. Booth. 1,470,955; Oct. 16.
Electrically-operated switch and the like. L. H. Wadsworth. 1,471,080; Oct. 16.
Elevator conveyer. R. K. Barnett. 1,470,663; Oct. 16.
Embroidered fabric. C. F. Ikle. Des. 63,136; Oct. 16.
Engine: *See*—
Internal-combustion engine.
Engines and like purposes, Pump for feeding liquid-fuel. E. H. Tartrais. 1,471,221; Oct. 16.
Engines, Bedplate for beater. D. Stuart. 1,471,218; Oct. 16.
Engines, Spark plug for explosive. A. E. Ehmke. 1,471,309; Oct. 16.
Envelope, Safety. G. Doutney. 1,470,715; Oct. 16.
Ethyl chloride, Production of. W. Traube. 1,470,656; Oct. 16.
Fan, Centrifugal. G. M. Capell. 1,471,141; Oct. 16.
Fender brace, Front-. A. R. Groff. 1,470,970; Oct. 16.
Fertilizer, Producing. S. D. Gooch. 1,470,968; Oct. 16.
Field frame. A. B. Owen and T. Hall. 1,471,196; Oct. 16.
File, Lock-fold expanding indexing ticket. R. B. Harris. 1,470,832; Oct. 16.
Finger ring or article of similar nature. B. Gross. Des. 63,133; Oct. 16.
Finger ring or similar article. L. Fiedler. Des. 63,130; Oct. 16.
Fire-box arch and arch brick. R. J. Himmelright. 1,470,736; Oct. 16.
Fire-box arch and arch bricks therefor. J. P. Neff. 1,470,697; Oct. 16.
Fire escape, Friction. S. Johnson. 1,470,746; Oct. 16.
Fireplace construction. L. B. Williams. 1,470,793; Oct. 16.

Fish boner. A. E. Carr. 1,470,807; Oct. 16.
Fish lure. H. T. Hyams. 1,470,842; Oct. 16.
Fishing reel. J. B. Pelletier. 1,470,640; Oct. 16.
Fixture gauge, Illuminating. H. D'Oller, jr. 1,470,870; Oct. 16.
Flash-light switch. C. H. Stevenson. 1,470,776; Oct. 16.
Floor or wall ground. T. W. Baker. 1,470,797; Oct. 16.
Floor polisher. A. F. Steiert and O. W. Linke. 1,471,217; Oct. 16.
Flour and making the same, Sesame. Yu Chen Lai. 1,470,929; Oct. 16.
Flowers, Making artificial. M. B. Greene 1,470,969; Oct. 16.
Flue tool. V. T. Riblett. 1,471,062; Oct. 16.
Fluid-actuated tie tamper. F. A. Jimerson. 1,470,622; Oct. 16.
Fluid meter. E. B. Cade. 1,470,684; Oct. 16.
Fluid-motor system. D. Bonetto. 1,471,095; Oct. 16.
Fluid-pressure brake equipment. T. H. Thomas. 1,471,073; Oct. 16.
Fluid-pressure device. A. N. Bessesen. 1,471,091; Oct. 16.
Flytrap. K. Yokosawa and K. Miyazaki. 1,471,086; Oct. 16.
Food cutter. C. Trutta. 1,471,313; Oct. 16.
Food-display cover. M. Metzger. 1,470,859; Oct. 16.
Foot arch. G. V. M. Berthet. 1,470,592; Oct. 16.
Form, Collapsible. G. E. Bronson. 1,470,612; Oct. 16.
Formaldehyde condensation products of aliphatic amines and products obtained thereby, M. G. Shepard and H. S. Adams. 1,471,213; Oct. 16.
Fruit and the like, Apparatus for treating. A. Haworth. 1,470,732; Oct. 16.
Frame: *See*—
Advertising frame. Field frame.
Automobile frame. Loom heddle frame.
Card-display frame.
Fruit protector. H. Jung. 1,471,167; Oct. 16.
Fuel-reserve system. P. W. Stephens. 1,470,775; Oct. 16.
Fuel-vaporizing system. L. E. French. 1,470,967; Oct. 16.
Fuelizer. J. G. Lanning. 1,470,756; Oct. 16.
Furnace. G. N. Blanchard. 1,470,680; Oct. 16.
Furnace. J. Reid. 1,470,876; Oct. 16.
Furnace front. J. Reid. 1,470,875; Oct. 16.
Furnaces, Charging fork for enameling. W. Hogenson. 1,471,028; Oct. 16.
Furniture, Convertible. F. J. Lewis and L. B. Brown. 1,471,175; Oct. 16.
Game appliance, Educational. E. A. Ovenshire. 1,470,872; Oct. 16.
Garment. J. B. Lawrence. 1,470,851; Oct. 16.
Garment, Convertible. B. Klappert. 1,470,849; Oct. 16.
Garment pocket. J. Kaufmann. 1,470,987; Oct. 16.
Gas and liquid contact device. E. Cleary. 1,471,101; Oct. 16.
Gas generator and distributor, Multiple oil-. A. Dahlene. 1,470,817; Oct. 16.
Gas, Producing. W. E. Karns. 1,470,848; Oct. 16.
Gas producing and cooling device. W. E. Karns. 1,470,847; Oct. 16.
Gas torch. O. R. Greiner. 1,471,123; Oct. 16.
Gases, Recovering valuable products from. O. Nordström. 1,471,276; Oct. 16.
Gauge: *See*—
Fixture gauge. Water gauge.
Pressure gauge. Wheel-quartering gauge.
Gauge. B. H. Blood. 1,470,802; Oct. 16.
Gauge. L. Rouanet. 1,471,211; Oct. 16.
Gear. A. E. Forsyth. 1,470,718; Oct. 16.
Gear, Change-speed. E. R. Williams. 1,471,228; Oct. 16.
Gear, Operating. W. T. Tabb. 1,470,778; Oct. 16.
Gear puller. E. E. Good. 1,471,259; Oct. 16.
Gear-wheel forging dies and making same. J. Eckert. 1,470,818; Oct. 16.
Gears, Yoke for draft. C. A. Carscadin. 1,470,809; Oct. 16.
Gelatin tester. A. D. Burke. 1,470,806; Oct. 16.
Glass machinery. A. Parys. 1,471,002; Oct. 16.
Glass, Method and apparatus for forming sheet. H. A. Myers. 1,471,189; Oct. 16.
Glass, Paste for etching. L. Simon. 1,470,772; Oct. 16.
Golf-cup device. R. G. Du Bois. 1,470,603; Oct. 16.
Golf-stroke register. B. M. Beskow. 1,470,904; Oct. 16.
Governing mechanism. F. S. Bennett. 1,471,315; Oct. 16.
Grading machine principally for fruit. J. L. Holland. 1,471,128; Oct. 16.
Grain drill. M. Marotz. 1,471,179; Oct. 16.
Grain saver. C. F. Kluth. 1,471,269; Oct. 16.
Gramophone. A. F. R. Cotton. 1,470,812; Oct. 16.
Gramophone. J. Green. 1,470,831; Oct. 16.
Grinding machine. W. F. Fraser. 1,470,605; Oct. 16.
Grinding or polishing tool, Rotary. E. Cavicchi. 1,470,957; Oct. 16.
Grooving and strip-inserting machine, Automatic. E. S. Daniels. 1,471,246; Oct. 16.
Gun and ammunition therefor. M. F. Béhar. 1,470,591; Oct. 16.
Gun filler, Grease-. E. Nolan and C. W. Walters. 1,471,056; Oct. 16.
Guns and the like, Apparatus for the long-distance adjustment of. P. Kaminski. 1,470,748; Oct. 16.
Guns or the like, Barrel-attaching device for grease. A. J. Wood. 1,471,085; Oct. 16.
Hand bag. M. Miller and M. L. Kurtz. Des. 63,138; Oct. 16.
Hand clamp. W. A. Day. 1,470,706; Oct. 16.
Handclamp switch. L. A. Miller. 1,471,185; Oct. 16.
Handle: *See*—
Vehicle door handle.
Hanger: *See*—
Cap hanger. Coat hanger.
Hasp lock. W. F. Knapp. 1,470,751; Oct. 16.
Headlight. C. A. Jones. 1,471,166; Oct. 16.
Headlight dimmer. R. J. McCredie. 1,471,046; Oct. 16.
Headlights, Antiglare guard for. E. David. 1,471,024; Oct. 16.
Heat-insulating tape. W. R. Gillies. 1,470,723; Oct. 16.
Heater: *See*—
Electric heater.
Heater. C. S. Snyder. 1,470,940; Oct. 16.
Heaters, Clay back for gas. J. E. Davis. 1,470,596; Oct. 16.
Heating system, Steam-. H. L. Bachman. 1,470,796; Oct. 16.
Heel, Resilient. A. E. Lewis. 1,471,042; Oct. 16.
Hide splitters, Stamping attachment for. J. F. Nelley. 1,471,192; Oct. 16.
High-frequency signaling, Device for. M. Latour. 1,470,628; Oct. 16.
Hinge. W. R. Hornberger. 1,471,158; Oct. 16.
Hog oiler. D. S. Dick. 1,471,109; Oct. 16.
Hog-trough guard. W. T. Lawhead. 1,470,629; Oct. 16.
Holding device. B. A. Johnson. 1,470,843; Oct. 16.
Hollow bodies, Press for producing. K. Böhle. 1,470,593; Oct. 16.
Hook: *See*—
Crane hook. Derrick hook.
Horseshoe. W. H. Giles. 1,471,119; Oct. 16.
Hose attachment. C. Peller. 1,470,639; Oct. 16.
Hubs, Making wheel. C. S. Ash. 1,471,134; Oct. 16.
Hypodermic-needle base. P. E. Ingalls. 1,470,981; Oct. 16.
Ignition switch. W. Kaisling. Re15,700; Oct. 16.
Impression and cast retainer. W. M. Gambill. 1,470,826; Oct. 16.
Indicator: *See*—
Direction indicator. Wheel angle indicator.
Water-level indicator.
Insulating material, Manufacturing. F. F. Lucas. 1,470,990; Oct. 16.
Insulation for rail joints, Renewable. C. A. Disbrow. 1,470,822; Oct. 16.
Internal-combustion engine. C. H. Knudsen. 1,470,752; Oct. 16.
Iron: *See*—
Soldering iron.
Iron and steel from smelter slags, Making. C. R. Kuzell. 1,471,270; Oct. 16.
Ironers, Padding for the covering of flat-work. W. I. Weaver. 1,471,224; Oct. 16.
Jack: *See*—
Vehicle power jack.
Jack. F. Grant. 1,470,830; Oct. 16.
Jar or bottle clamp. J. Sciortino. 1,471,069; Oct. 16.
Joint: *See*—
Rail joint. Universal joint.
Journal lubricator. T. J. Holmes. 1,470,739; Oct. 16.
Keyhole guard. F. W. Schou. 1,470,937; Oct. 16.
Kitchen utensil. E. P. Vincent. 1,470,783; Oct. 16.
Knife switch, Safety. F. Fix. 1,470,717; Oct. 16.
Knitting machine. H. T. Ballard. 1,470,677; Oct. 16.
Knitting-machine head. H. T. Ballard. 1,470,678; Oct. 16.
Knitting machines, Take-up mechanism for. K. Howie. 1,470,741; Oct. 16.
Ladder. C. C. Stevens. 1,471,290; Oct. 16.
Lamp, Portable. W. J. Spence. 1,470,774; Oct. 16.
Lamp, Portable electric. J. C. Armour. 1,471,133; Oct. 16.
Lamp socket, Multiple. B. I. and E. Rockoff. 1,471,208; Oct. 16.
Lamp, Therapeutic. H. W. Nelson. 1,470,698; Oct. 16.
Lamps, Guard for gasoline. V. A. and V. O. Nevins. 1,471,193; Oct. 16.
Lanterns, Detachable fusee and torpedo holder for railway. A. C. Nordman. 1,471,194; Oct. 16.
Lathe, Automatic piston-ring. C. E. Johnson. 1,471,032; Oct. 16.
Laundry tag. M. G. Rosenthal. 1,471,284; Oct. 16.
Lead-measuring machine for gauges. R. Hill. 1,470,836; Oct. 16.
Leather-stitching machine. C. F. Miller. 1,470,997; Oct. 16.
Lenses, Spacing member used in forming bifocal. M. A. Laabs. 1,470,988; Oct. 16.
Lever, Control. J. W. Lorimer. 1,471,272; Oct. 16.
Life preserver. J. Catanzaro. 1,470,908; Oct. 16.
Lifeboat. N. F. Jayne. 1,470,983; Oct. 16.
Lighting, Art and apparatus for. W. T. Tabb. 1,470,777; Oct. 16.
Lighting fixture. C. C. Dose. 1,470,964; Oct. 16.
Lighting fixtures, Bridge arm for. A. Cooper. Des. 63,128; Oct. 16.
Linter machines, Saw for. H. Tatje. 1,470,779; Oct. 16.
Liquid brake. P. Meyer. 1,471,186; Oct. 16.
Liquid-dispensing device. A. D. Wyckoff. 1,471,230; Oct. 16.
Liquid-fuel purifier. J. H. Gannon. 1,470,719; Oct. 16.

Liquid sampler. P. W. Tompkins. 1,471,015; Oct. 16.
Liquids, Apparatus for throwing. F. C. Hughes. 1,471,130; Oct. 16.
Liquids or solids with gases, Apparatus for treating. W. Sieck, jr. 1,470,887; Oct. 16.
Lock: *See*—
Automobile lock. Hasp lock.
Automobile transmission lock. Tumbler lock.
Window lock.
Lock. J. S. Burdick. 1,470,805; Oct. 16.
Lock. E. A. Reineman. 1,471,061; Oct. 16.
Lock structure. M. C. Maxwell. 1,470,858; Oct. 16.
Locking device. J. J. Farrell. 1,470,823; Oct. 16.
Locking device. C. Vogt. 1,471,077; Oct. 16.
Locomotive. C. Bauman. 1,471,089; Oct. 16.
Locomotive booster motor-controlling mechanism. F. R. Peters. 1,470,761; Oct. 16.
Locomotive booster motors, Mounting for. F. R. Peters. 1,470,760; Oct. 16.
Locomotive fire box. P. L. Parish. 1,470,700; Oct. 16.
Loom heddle frame. W. J. Minville. 1,470,862; Oct. 16.
Looms, Feeler mechanism for. C. D. Brown. 1,471,305; Oct. 16.
Looms, Lug strap for. B. F. Early. 1,471,110; Oct. 16.
Looms, Warp-tensioning device for. W. Ebell. 1,470,716; Oct. 16.
Lubricating device. D. L. Lawson. 1,471,038; Oct. 16.
Lubricator: *See*—
Journal lubricator.
Lug, Mud. H. R. Eder. 1,470,819; Oct. 16.
Lumber moving and storage means. R. Z. Drake. 1,471,149; Oct. 16.
Magneto contacts, Holder for. L. A. Loundagin. 1,470,993; Oct. 16.
Magnetos, Trip lever for oscillating. A. Rosner. 1,470,933; Oct. 16.
Magnifier, Adjustable. C. S. Stone. 1,470,890; Oct. 16.
Manifolding machine. J. Q. Sherman. 1,471,289; Oct. 16.
Manure remover and spreader. H. C. and W. J. Wright. 1,471,302; Oct. 16.
Manure spreaders, Feed mechanism for. F. W. Zint. 1,471,087; Oct. 16.
Measuring machines, Indicating means for. G. C. Hosch. 1,470,540; Oct. 16.
Meat, poultry, and the like, Device for facilitating the carving of. A. J. Greaves. 1,471,122; Oct. 16.
Medicinal compound for cows. E. H. Babbitt. 1,470,795; Oct. 16.
Merry-go-round steeplechase. F. V. Burrow. 1,470,911; Oct. 16.
Metal wheel. E. Ibach. 1,470,742; Oct. 16.
Meter: *See*—
Fluid meter. Registering meter.
Microscopes, Stereoscopic eyepiece for. O. Heimstädt. 147,670; Oct. 16.
Microscopes, Tube extension for. H. Siedentopf. 1,470,770; Oct. 16.
Milling machine for continuous milling. J. F. Patton and J. E. McAllister. 1,470,873; Oct. 16.
Miners' caps, Lamp-supporting attachment for. W. Israel. 1,470,923; Oct. 16.
Miter box. L. F. Perlick. 1,471,003; Oct. 16.
Mold: *See*—
Pipe mold.
Mold-facing device. W. D. Moore. 1,471,057; Oct. 16.
Mold form. N. F. Ambursen. 1,470,673; Oct. 16.
Molding machine. C. E. Johnson. 1,471,033; Oct. 16.
Money-changing machine. S. B. Hunter. 1,470,841; Oct. 16.
Mop-cutting machine. W. Severns. 1,470,649; Oct. 16.
Mortar-forming material from anhydrite, Manufacturing. F. Hartner. 1,470,731; Oct. 16.
Motor: *See*—
Water motor. Wave motor.
Mower. C. Lorenson. 1,470,989; Oct. 16.
Multiple-spindle drill head. G. Hey and J. A. Wilding. 1,470,735; Oct. 16.
Nail buffer. J. Lupo, jr. 1,470,857; Oct. 16.
Nonskid tread for vehicle wheels. A. Pugliese. 1,471,202; Oct. 16.
Oil and gas separator. A. M. Ballard. 1,471,088; Oct. 16.
Oil-circulating system. L. E. Shaw. 1,470,769; Oct. 16.
Oil-vapor burner. N. J. Warren and W. C. Smith. 1,470,787; Oct. 16.
Oils, Producing and material for the treatment of. P. W. Prutzman and C. J. von Bibra. 1,471,201; Oct. 16.
Ophthalmic mounting. E. L. Schumacher. 1,471,009; Oct. 16.
Organs and like instruments, Expressive-touch action for. J. H. Compton. 1,471,318; Oct. 16.
Overflow alarm, Automatic. C. F. Willingham. 1,470,902; Oct. 16.
Pad: *See*—
Brake-band silencing pad.
Padding. J. P. Hooper. 1,471,029; Oct. 16.
Pan: *See*—
Roasting pan.
Paper having the appearance of handmade paper, Making. J. H. A. Armstrong. 1,470,675; Oct. 16.
Paper-making machine. E. M. Bassler. 1,470,953; Oct. 16.
Paper manifolding. J. Q. Sherman. 1,471,288; Oct. 16.
Paper, millboard, vegetable leather substitute, and linoleum substitute, Apparatus for the production of designs in. F. Kaye. 1,471,169–70; Oct. 16.
Paper or other articles, Making. A. L. Weis. 1,471,225; Oct. 16.
Parachute apparatus. H. E. S. Holt. 1,470,610; Oct. 16.
Parchment board and making the same, Imitation. R. Bardsley. 1,471,021; Oct. 16.
Paste-tube cap. W. W. Carpenter. 1,470,686; Oct. 16.
Pelt or skin dehairing machine. P. C. Donner. 1,470,714; Oct. 16.
Pencil holder, Pocket. D. F. Curtin. 1,470,816; Oct. 16.
Pencil-point protector. L. Ginaberg. 1,470,724; Oct. 16.
Percolator-handle protector. M. H. Geartts. 1,471,257; Oct. 16.
Phonograph recorder. F. P. McIntosh. 1,470,633; Oct. 16.
Phonograph stop mechanism. W. W. Dean. 1,471,146; Oct. 16.
Phonographs, Sound box for. D. Berg. 1,471,233; Oct. 16.
Picker check. R. Di Cristo. 1,470,821; Oct. 16.
Picture-film projector, Moving-. H. E. Harbaugh, C. F. Buquo, and G. F. Spaeth. 1,470,975; Oct. 16.
Picture-projecting machines, Revolving shutter for moving-. G. Johnston. 1,471,031; Oct. 16.
Pie container, Individual. A. J. Richards. 1,470,763; Oct. 16.
Pillow, marine life-saving belt, and the like. M. M. Dessau. 1,470,598; Oct. 16.
Pin: *See*—
Barber-cloth pin.
Pipe coupler. D. W. Maupin and R. C. Teegarden. 1,471,045; Oct. 16.
Pipe mold. O. F. Heer. 1,471,262; Oct. 16.
Pipes, Machine for bending. B. J. Lindgren. 1,471,176; Oct. 16.
Piston. H. Schmitt. 1,471,008; Oct. 16.
Piston construction. C. H. Knudsen. 1,470,753; Oct. 16.
Piston-ring-testing machine. H. O. Hem. 1,470,668; Oct. 16.
Piston rings, Machine for rolling. J. A. Ingram. 1,470,743; Oct. 16.
Piston rods or pumps, Power head for operating. P. A. Myers. 1,470,634; Oct. 16.
Planing, milling, and like machines, Attachment for securing the work to the tables of. E. Gething. 1,471,118; Oct. 16.
Planters, Marker device for. H. B. McKahin. 1,471,182; Oct. 16.
Plate or similar article. W. H. Fick. Des. 63,131–2; Oct. 16.
Plow, Double. J. S. Rogers. 1,470,879; Oct. 16.
Plow hitch. J. Wansing. 1,471,297; Oct. 16.
Plow, Motor-driven. P. R. McCrary. 1,471,180; Oct. 16.
Plug receptacle. C. H. Bissell. 1,470,956; Oct. 16.
Plumbing fixtures, Wall hanger for. J. P. Graham. 1,471,154; Oct. 16.
Pneumatic wheel. J. M. C. Semery. 1,470,938; Oct. 16.
Polishing machine. E. F. Ries. 1,471,281; Oct. 16.
Polishing wheel. T. S. Hose. 1,470,740; Oct. 16.
Poultry roost. D. Bartman. 1,470,799; Oct. 16.
Powder puff. W. F. Dean. 1,471,145; Oct. 16.
Power tool, Portable reciprocating. J. J. Roberts. 1,470,645; Oct. 16.
Power transmission. J. L. Creveling. 1,470,961; Oct. 16.
Power-transmission mechanism. W. C. Tyler. 1,470,947; Oct. 16.
Power traverse and feed mechanism for planers. A. Trosch. 1,471,296; Oct. 16.
Pressure gauge. A. Landey. 1,471,174; Oct. 16.
Price-exhibiting device. L. S. Hodgdon. 1,470,609; Oct. 16.
Printing die. G. H. Reoch. 1,470,644; Oct. 16.
Printing purposes, Rolling stamp with counting device for various. H. Komusin, geb. Liedtke. 1,470,928; Oct. 16.
Puller: *See*—
Gear puller.
Pulley. L. J. Brulotte. 1,471,097; Oct. 16.
Pulverizer, Rotary. J. J. Denny and R. B. Watson. 1,470,597; Oct. 16.
Pump. C. V. Morse. 1,470,863; Oct. 16.
Pump, Oil. E. Buckingham. 1,470,804; Oct. 16.
Pump, Vacuum. H. C. Snook. 1,471,012; Oct. 16.
Pumps, Impeller for centrifugal. J. S. Hazell. 1,470,607; Oct. 16.
Pumping device, Fluid-pressure liquid-. W. J. Hancock. 1,470,973; Oct. 16.
Racket, Tennis. R. H. Robinson. 1,470,878; Oct. 16.
Radiator-cap attachment. J. H. Smith. 1,471,071; Oct. 16.
Radiator circulating system. C. M. Josted. 1,470,846; Oct. 16.
Radioreception. L. L. Israel. 1,471,165; Oct. 16.
Radiotelegraph signaling system. H. Pratt, H. F. Elliott, and E. B. Murphy. 1,471,319; Oct. 16.
Rail joint. W. B. Rumbaugh. 1,471,065; Oct. 16.
Rail joint. J. A. Sanner. 1,471,068; Oct. 16.
Rails, Apparatus for handling and treating. E. F. Entwisle, F. E. Howells, and L. L. Leach. 1,471,250; Oct. 16.
Railway rails, Anticreeping device for. C. H. Knell. 1,471,171; Oct. 16.
Railway roadbeds, Machine for removing weeds from. A. Scheuchzer. 1,470,768; Oct. 16.

Railway tie. R. V. and V. E. Randall. 1,471,060; Oct. 16.
Railway tie. V. E. Randall. 1,471,203; Oct. 16.
Railway truck. E. G. Chandler. 1,470,958; Oct. 16.
Rat trap. M. L. Lively. 1,470,854; Oct. 16.
Razor bone, Combination self-lubricating and germicidal. J. L. Reneau. 1,470,762; Oct. 16.
Razor, Safety. W. W. Everts. 1,471,114; Oct. 16.
Razor, Safety. A. B. Lauterbach. 1,470,757; Oct. 16.
Reamer. S. M. Bellringer. 1,470,679; Oct. 16.
Receptacles, Closure for. F. G. Wacker. 1,471,079; Oct. 16.
Recording device. C. H. Marshall, jr. 1,470,691; Oct. 16.
Recording mechanism. D. S. Holt. 1,471,129; Oct. 16.
Reel: *See*—
Clothesline reel. Fishing reel.
Reflector for use in light projectors. J. G. Balsillie. 1,470,798; Oct. 16.
Refractor. W. A. Dorey. 1,470,602; Oct. 16.
Refractory mold and preparing the same, Centrifugal. W. D. Moore. 1,471,053; Oct. 16.
Refrigerated display case. A. R. and G. Wingard. 1,471,083; Oct. 16.
Refrigerating apparatus. P. H. Buch and H. M. Groff. 1,471,098; Oct. 16.
Refrigerating apparatus, Absorbing still for. S. Otto and J. C. Jankus. 1,470,638; Oct. 16.
Refrigerating machine. C. H. Hapgood. 1,471,125; Oct. 16.
Register: *See*—
Golf-stroke register.
Registering meter. L. A. Cherry. 1,471,100; Oct. 16.
Regulator: *See*—
Automatic regulator. Water-level regulator.
Torsion-spring tension regulator.
Regulator system. C. A. Boddie and R. E. Cullings. 1,470,681; Oct. 16.
Rheostat. G. M. Little. 1,470,758; Oct. 16.
Relasting machine. E. Brothers. 1,470,613; Oct. 16.
Repeating method and system. W. E. Beatty. 1,470,954; Oct. 16.
Resin, Acetylene-aldehyde fusible. E. E. Novotny and D. S. Kendall. 1,470,637; Oct. 16.
Reversing mechanism. S. Cressey. 1,471,245; Oct. 16.
Reversing mechanism. J. A. Dienner. 1,471,148; Oct. 16.
Ribbon-holding device. E. A. Marion. 1,470,631; Oct. 16.
Rims, Tool for demountable. J. H. Caplan. 1,471,699; Oct. 16.
Road form. H. A. Trester. 1,471,074; Oct. 16.
Roasting pan. L. D. Sutton. 1,471,219; Oct. 16.
Rod: *See*—
Curtain rod.
Roller: *See*—
Shade roller.
Roofing fastener, Roll-. A. A. Griswold. 1,471,156; Oct. 16.
Roofing machine. T. J. Lords and G. P. Lennartz. 1,471,043; Oct. 16.
Rope clamp. R. E. Jordan, jr. 1,471,034; Oct. 16.
Ropes, Balancing of the weight of. L. Thallmayer. 1,470,780; Oct. 16.
Rosary. E. B. Evans. Des. 63,129; Oct. 16.
Rubber and ebonite substitutes, Manufacture of. H. Plauson. 1,471,059; Oct. 16.
Saliva ejector, Sanitary individual. N. B. Riddle. 1,471,207; Oct. 16.
Saw, Crosscut. L. Osterdahl and H. G. Cowling. 1,470,871; Oct. 16.
Saw frame or holder. G. S. Sieben. 1,471,214; Oct. 16.
Saw, Hack. A. G. Voltz. 1,470,897; Oct. 16.
Saw-setting tool. J. E. Meed. 1,470,694; Oct. 16.
Scaffold, Safety portable. J. F. Young. 1,471,304; Oct. 16.
Scale, Automatic. A. Sonander. 1,471,072; Oct. 16.
Scale, Weighing. C. H. Hapgood. 1,470,666–7; Oct. 16.
Scale, Weighing. H. O. Hern. 1,470,669; Oct. 16.
Scale, Weighing. O. C. Reeves. 1,470,643; Oct. 16.
Scales, Recording attachment for. A. R. McConnell and H. E. McCroskey. 1,471,181; Oct. 16.
Scraper. R. G. Le Tourneau. 1,470,853; Oct. 16.
Scraper. J. R. Maginnes. 1,471,178; Oct. 16.
Screen: *See*—
Window screen.
Screen frames and the like, Joint member for. T. Howie and A. J. Jackson. 1,471,159; Oct. 16.
Screw-cutting machine. R. A. Boehm. 1,470,683; Oct. 16.
Seat construction. S. W. Nicholson. 1,471,001; Oct. 16.
Seed sower. M. Schling. 1,471,291; Oct. 16.
Separating device. W. M. Adamson. 1,471,131; Oct. 16.
Separator: *See*—
Air separator.
Sewage-disposal apparatus. H. Johnson. 1,470,745; Oct. 16.
Sewing machine. H. Perras. 1,470,932; Oct. 16.
Sewing machine. W. T. B. Roberts. 1,470,646; Oct. 16.
Shade and curtain support, Window. H. D. Harris. 1,470,833; Oct. 16.
Shade holder. R. Beardsley. 1,471,022; Oct. 16.
Shade holder. L. C. F. Wilcke and J. Kirby, jr. 1,470,790; Oct. 16.
Shade-roller mechanism, Window-. B. H. Tidy. 1,470,782; Oct. 16.
Shade roller, Metal. E. E. Whitmore. 1,470,789; Oct. 16.
Shaker. J. B. Sweet. 1,470,893; Oct. 16.
Sharpener, Scissors. A. Borleis. 1,471,136; Oct. 16.
Sheet-metal bin. J. H. Oxley. 1,471,197; Oct. 16.
Shellacking machine, Automatic. J. F. Largy. 1,470,850; Oct. 16.
Shingle, Composition. W. J. Hofstatter. 1,470,837; Oct. 16.
Shipping receptacle. W. C. Klauser. 1,470,750; Oct. 16.
Shock absorber. J. H. Bueter. 1,470,906; Oct. 16.
Shock absorber. P. K. Jones. 1,471,267; Oct. 16.
Shock absorber. A. J. Perkins. 1,470,931; Oct. 16.
Shoe-buttoning machine. M. Brock. 1,470,595; Oct. 16.
Shoes, Detachable trimming for low. A. R. Keenan. 1,471,035; Oct. 16.
Shoes, Making. W. C. Stewart. 1,470,657; Oct. 16.
Shoes, Manufacture of molded-counterturned. H. L. Yeaton. 1,470,661; Oct. 16.
Sign holder. W. H. Impol. 1,471,164; Oct. 16.
Signal: *See*—
Automobile signal. Car signal.
Signaling, Means and method for. K. S. Johnson. 1,470,986; Oct. 16.
Signaling system, Secret. D. E. Branson. 1,470,594; Oct. 16.
Signaling system. K. S. Johnson. 1,470,985; Oct. 16.
Silk and like products not liable to lose their resistance by contact with water, Manufacturing viscose, with a view to the manufacture of artificial. H. Delahaye. 1,470,711; Oct. 16.
Skate wheel, Roller-. E. Bowers. 1,471,236; Oct. 16.
Skylight. P. M. Knudsen. 1,470,926; Oct. 16.
Sled. E. E. Sturk. 1,470,891; Oct. 16.
Slicing machine. W. J. Campbell. 1,470,614; Oct. 16.
Sling. C. Crozier. 1,470,815; Oct. 16.
Slotting machine. A. O. Garrett, C. E. Funnell, and W. L. Hoffman. 1,470,721; Oct. 16.
Smokestick. J. Henke. 1,471,127; Oct. 16.
Soldering iron, Electric. J. F. Coeuille. 1,470,912; Oct. 16.
Sound detection. H. C. Hayes. 1,470,733; Oct. 16.
Sound-reproducing device, Attachment for. L. Blaha. 1,471,092; Oct. 16.
Spark plug. H. Earle. 1,471,249; Oct. 16.
Spark plug. J. A. Rogers. 1,471,283; Oct. 16.
Speed tool and making the same, High-. F. E. Falvet. 1,471,252; Oct. 16.
Spindle-bolt protector. J. G. Wilcox. 1,471,227; Oct. 16.
Spinning tool and machine. J. N. Selvig. 1,471,010; Oct. 16.
Spout for vessels, Pouring. W. C. Helcher. 1,470,978; Oct. 16.
Sprayer. J. C. Frederick. 1,471,256; Oct. 16.
Spring buffer or bumper. W. G. Cox. 1,470,960; Oct. 16.
Sprinklers or flushers, Controller for street. H. E. Olsen. 1,470,699; Oct. 16.
Stand: *See*—
Display stand.
Starting switch. H. L. Van Valkenburg. 1,470,896; Oct. 16.
Steam boiler. D. S. Jacobus. 1,470,744; Oct. 16.
Steering wheel. C. W. Johnson. 1,470,623; Oct. 16.
Steering wheel. J. Vons 1,470,784; Oct. 16.
Steering-wheel brake. A. P. Brush. 1,470,803; Oct. 16.
Stencil-cutting machine. G. Remnsnider. 1,471,204; Oct. 16.
Stenciling machine. C. W. Dibble and M. Phillips. 1,470,962; Oct. 16.
Stepladder and stool, Combination. F. L. Griffin. 1,471,155; Oct. 16.
Stop motion. K. Sloat. 1,471,292; Oct. 16.
Storage-battery filler. C. Burkhard. 1,471,238; Oct. 16.
Stove, Oil. R. Hoffman. 1,470,738; Oct. 16.
Stove or furnace attachment. F. R. Doane. 1,470,601; Oct. 16.
Strainer. C. H. Sturgis. 1,471,293; Oct. 16.
Stuffing box. H. O. Jackson. 1,470,621; Oct. 16.
Sublimation, Machine used for the process of. E. Q. Adams. 1,470,950; Oct. 16.
Sucker-rod coupling. R. E. Cox. 1,471,106; Oct. 16.
Surface-dressing machine. F. Pochila. 1,470,641; Oct. 16.
Surgical appliance. S. A. Bates. 1,470,707; Oct. 16.
Surgical instruments, Universal handle for. E. C. Day. 1,470,914; Oct. 16.
Suspender connection to stockings. G. E. Winterhalder. 1,471,301; Oct. 16.
Suspenders. L. W. Grasnick. 1,471,121; Oct. 16.
Switch: *See*—
Electric switch. Knife switch.
Electrical switch. Starting switch.
Flash-light switch. Time switch.
Handlamp switch.
Switch. W. J. Newton. 1,470,868; Oct. 16.
Switch. L. A. M. Phelan. 1,471,199; Oct. 16.
Switch-actuating device. P. Ibach. 1,471,163; Oct. 16.
Switch device. J. Clossmann. 1,471,242; Oct. 16.
Synchronous dynamo-electric machine. H. Sito. 1,470,939; Oct. 16.
Taximeter. A. Weisinger. 1,470,949; Oct. 16.
Teapot or similar article. H. Hillbom. Des. 63,134; Oct. 16.
Telephone-exchange system. R. S. Bailey. 1,470,611; Oct. 16.
Telephone-exchange system. A. E. Lundell. 1,470,991–2; Oct. 16.

Telephone-exchange system. S. B. Williams, jr. 1,471,017–18; Oct. 16.
Telephone-exchange system, Automatic. F. R. McBerty. 1,470,664; Oct. 16.
Television. A. M. Nicolson. 1,470,696; Oct. 16.
Temperature relay. N. K. Anderson. 1,470,676; Oct. 16.
Therapeutic apparatus. O. J. Cunningham. 1,471,144; Oct. 16.
Thermometer. J. Komorous. 1,471,036; Oct. 16.
Thermometers, Support for. J. Komorous. 1,471,037; Oct. 16.
Thermos container. J. E. Diven. 1,470,713; Oct. 16.
Tie: *See*—
Railway tie.
Tie. J. W. Falk. 1,471,251; Oct. 16.
Time switch. H. R. Warren. 1,471,082; Oct. 16.
Tin-plate branning or grease-removing machine. S. Davies. 1,471,108; Oct. 16.
Tire and fabric therefor. A. E. Jury. 1,470,924; Oct. 16
Tire carrier, Detachable. W. E. Kelly. 1,471,268; Oct. 16.
Tire casings, Apparatus for manufacturing. W. J. Steinle 1,470,889; Oct. 16.
Tire casings, Apparatus for vulcanizing. J. Traum 1,470,657; Oct. 16.
Tire chain, Automobile. S. E. Dingwell. 1,471,248; Oct. 16.
Tire, Elastic. F. E. Craig. 1,470,913; Oct. 16.
Tire fabric, Apparatus for plying up. J. R. Gammeter. Re15,699; Oct. 16.
Tire guard. O. H. Brown. 1,471,237; Oct. 16.
Tire-inflating apparatus for automobiles. J. H. Howard. 1,471,264; Oct. 16.
Tire or wheel carrier. C. W. McKinley. 1,470,996; Oct. 16.
Tire, Pneumatic. L. W. Hottel. Des. 63,135; Oct. 16.
Tire, Pneumatic. F. A. Nied. Des. 63,140; Oct. 16.
Tire, Resilient. E. G. Hulse. 1,470,922; Oct. 16.
Tire, Rubber. M. R. Shaw. 1,471,070; Oct. 16.
Tire tightener. H. P. Wiens. 1,470,791; Oct. 16.
Tire, Vehicle. E. Gratt. 1,470,726; Oct. 16.
Tires, Protective casing for. M. L. Hundeby. 1,471,266; Oct. 16.
Toaster. E. J. Monpeuse. 1,471,275; Oct. 16.
Tobacco moistener. A. B. Roseboom. 1,470,880; Oct. 16.
Toe-plate fastener. J. C. Reid and W. C. Taylor. 1,471,004; Oct. 16.
Toilet article. J. B. Mason, jr. 1,470,994; Oct. 16.
Toilet fan and hair drier, Combined. W. C. Summer and W. L. Minick, jr. 1,471,294; Oct. 16.
Toothbrush, Sanitary. L. C. Davis. 1,470,710; Oct. 16.
Torsion-spring tension regulator. E. E. Heintz. 1,470,977; Oct. 16.
Tower, Observation, amusement, and utility. A. C. Rush. 1,470,935; Oct. 16.
Toy. J. A. Dienner. 1,471,147; Oct. 16.
Toy airplane. H. R. Ross. 1,470,934; Oct. 16.
Tractor wheel. T. C. Whitehead. 1,470,901; Oct. 16.
Traffic-regulator signal casing. L. J. Klug. Des. 63,137; Oct. 16.
Transmission, Equalizing. W. H. Martin. 1,470,632; Oct. 16.
Transmission system. G. W. Elmen. 1,470,965; Oct. 16.
Transmitting device. J. B. Speed. 1,471,013; Oct. 16.
Trap: *See*—
Animal trap.
Rat trap.
Water-pipe trap.
Trench mortar. F. Rognile. 1,471,063; Oct. 16.
Trestle, Collapsible. G. Tomlinson. 1,471,223; Oct. 16.
Trolley. W. A. Bartlett. 1,471,135; Oct. 16.
Trolley wheel. J. S. Roncati. 1,471,064; Oct. 16.
Trolley-wire support. A. E. Anderson. 1,471,132; Oct. 16.
Trolling spoon. A. Reekers. 1,471,280; Oct. 16.
Truss. C. H. Sumner. 1,470,654; Oct. 16.
Tube: *See*—
Ballast tube.
Tubes, Means for repairing. A. Miles. 1,471,184; Oct. 16.
Tubing, armored cable, and like products, Manufacture of flexible metallic. G. E. Phillips. 1,471,057; Oct. 16.
Tumbler lock. H. Charlton. 1,470,810; Oct. 16.
Turbine, Elastic-fluid. W. L. R. Emmet. 1,471,317; Oct. 16.
Tying machine. H. C. Meyer. 1,470,861; Oct. 16.
Type-alug-casting apparatus. G. B. Fields. 1,471,253; Oct. 16.
Typewriting machine. G. G. Going. 1,471,152–3; Oct. 16.
Univeral joint. J. C. Cromwell. 1,471,143; Oct. 16.
Vacuum cleaner. N. A. Throop. 1,470,894; Oct. 16.
Vacuum feed device. L. H. Wheeler. 1,470,704; Oct. 16.
Valve. F. Hardinge. 1,470,974; Oct. 16.
Valve, Automatic closing. M. T. Vandervoort. 1,470,895; Oct. 16.
Valve, Auxiliary air. P. Fowler. 1,471,255; Oct. 16.
Valve, Check. B. T. Williston. 1,471,229; Oct. 16.
Valve, Controlling. L. A. Darling. 1,471,107; Oct. 16.
Valve for internal-combustion engines, Auxiliary air. A. Wagner. 1,470,785; Oct. 16.
Valve gear. W. P. Dryer. 1,471,316; Oct. 16.
Valve gear. W. E. Ver Planck. 1,471,076; Oct. 16.
Valve grinder. C. E. Clarke. 1,470,687; Oct. 16.
Valve, Locked exhaust. J. B. Van Hoose. 1,471,075; Oct. 16.
Valve, Metal air-check. L. F. Knight. 1,471,172; Oct. 16.
Valve, Plate. J. W. Jones. 1,470,625; Oct. 16.
Vanity case. R. M. Rodriguez. 1,470,647; Oct. 16.
Vehicle antirattling device. S. Baruch. 1,470,962; Oct. 16.
Vehicle door handle. F. H. Hart. 1,471,126; Oct. 16.
Vehicle frame suspension. L. R. Gruss. 1,470,972; Oct. 16.
Vehicle motors, Cut-out for. C. Vogt. 1,471,078; Oct. 16.
Vehicle, Passenger. S. Gage. 1,471,151; Oct. 16.
Vehicle power jack. Z. Calhoon. 1,470,808; Oct. 16.
Vehicle top. C. R. Allen. 1,470,590; Oct. 16.
Vehicle top, Foldable. C. R. Allen. 1,470,589; Oct. 16.
Vehicle wheel. B. L. Smith. 1,471,011; Oct. 16.
Vehicle, window and guard. W. Roslund. 1,470,764; Oct. 16.
Vehicles and the like, Top for. F. K. Lewis. 1,470,852; Oct 16.
Vehicles, Automatic brake control for power-propelled. E. G. Staude. 1,470,701; Oct. 16.
Vehicles, Brake mechanism for motor. P. G. Hugh. 1,470,620; Oct. 16.
Vehicles, Convertible inclosure for. E. Lover. 1,470,689–90; Oct. 16.
Vehicles, Coupling for railway and like. J. Mitchell and J. C. G. Cossey. 1,471,049; Oct. 16.
Vehicles, Cover support for motor. J. Raggis. 1,471,279; Oct. 16.
Vehicles, Extensible frame for combination motor. A. E. Cook and T. Van Tuyl. 1,470,811; Oct. 16.
Vehicles, Glare screen for. J. M. Barry. 1,470,800; Oct. 16.
Vehicles, Heater for motor-propelled. C. S. Pelton. 1,471,312; Oct. 16.
Vehicles, Radiator cap for motor. J. B. Northern. 1,471,195; Oct. 16.
Vehicles, Side bumper for. J. W. Gorman. 1,470,828; Oct. 16.
Vehicles, Six-wheel propelling mechanism for motor. J. M. Thorp. 1,471,295; Oct. 16.
Ventilator. F. Calabrese. 1,470,685; Oct. 16.
Vessels, Combined cover and spout for. J. E. Meed. 1,470,693; Oct. 16.
Violin bridge. B. Bielke. 1,470,734; Oct. 16.
Voltage-regulator system. C. A. Boddie. 1,470,682; Oct. 16.
Waffle iron, Electrical. G. F. Wells. 1,470,899; Oct. 16.
Washing machine. S. R. Boardman. 1,471,234; Oct 16.
Washing machine. C. T. Tunnicliffe. 1,470,702; Oct. 16.
Washing machine, Clothes. F. A. Adams. 1,470,671; Oct. 16.
Water bags, Plug for ice and hot. A. Connor. 1,471,103; Oct. 16.
Water gauge. G. S. Garren. 1,470,720; Oct. 16.
Water-level indicator. J. V. De Wald. 1,470,916; Oct. 16.
Water-level regulator, Feed-. F. Wolf. 1,470,660; Oct. 16.
Water motor. F. Chapman. 1,470,909; Oct. 16.
Water-pipe trap, Rain-. M. Sigman. 1,471,215; Oct. 16.
Water-purifying apparatus, Mixer for ozone. H. B. Hartman. 1,471,260; Oct. 16.
Wave motor. W. M. Taylor. 1,471,222; Oct. 16.
Weather strip for doors. A. O. Petersen. 1,470,874; Oct. 16.
Weigher, Residue. A. S. Gilbert. 1,470,829; Oct. 16.
Well underreamer, Oil-. V. L. Conaghan. 1,471,102; Oct. 16.
Wheel: *See*—
Disk wheel.
Metal wheel.
Pneumatic wheel.
Polishing wheel.
Skate wheel.
Steering wheel.
Tractor wheel.
Trolley wheel.
Vehicle wheel.
Wheel. F. A. Gruber. 1,471,157; Oct. 16.
Wheel. H. A. House, jr. 1,471,161; Oct. 16.
Wheel angle indicator, Front-. W. T. Rooney and J. P. Hume. 1,471,209; Oct. 16.
Wheel-quartering gauge. R. R. Royal and D. H. Brown. 1,471,285; Oct. 16.
Wheel rims, Forming nipple sockets in. H. A. House, jr. 1,471,160; Oct. 16.
Wheel rims, Tool for expanding and contracting split. E. T. Rushton and R. S. Berry. 1,471,066; Oct. 16.
Wheels, Swivel for truck. E. Dietz. 1,471,247; Oct. 16.
White and process of manufacture, Satin. J. H. Ryan. 1,470,765; Oct. 16.
Window lock. B. Reynolds. 1,471,206; Oct. 16.
Window screen. C. G. Morgner. 1,471,187; Oct. 16.
Window screen. J. F. Wall. 1,470,658; Oct. 16.
Windows, Ventilating attachment for. C. H. George. 1,470,606; Oct. 16.
Wire-forming device, Spiral-. G. A. Bonelli. 1,471,235; Oct. 16.
Wool, etc., Machine for picking and burring. O. M. Godfrey. 1,470,827; Oct. 16.
Wrench. A. A. Cress. 1,471,142; Oct. 16.
Wrench. L. D. Phillips. 1,471,200; Oct. 16.
X-ray radiation, Vibrating buckey diaphragm for scattered. H. F. Waite. 1,471,081; Oct. 16.

CLASSIFICATION OF PATENTS

ISSUED OCTOBER 16, 1923.

NOTE.—First number=class, second number=subclass, third number=patent number.

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29—	1: 1,470,722		118: 1,470,638	92—	2: 1,471,276		108: 1,470,601		36: 1,470,789		60: 1,470,776
	1,470,743	64—	10: 1,470,754		22: 1,471,218		116: 1,470,680		38: 1,470,658		1,471,185
	85: 1,471,259		24: 1,470,739		39: 1,471,169		1,470,940	157—	1: 1,471,066		67: 1,470,868
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	1,471,114		37: 1,471,254	93—	55: 1,470,881		292: 1,470,619	158—	27.4: 1,471,123		87: 1,470,907
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	6: 1,470,826		89: 1,471,143	94—	31: 1,471,074		153: 1,471,041		42: 1,470,738		116: 1,471,241
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	33: 1,471,207		45: 1,470,893	96—	13: 1,470,920		221: 1,470,861		59: 1,470,817		144: 1,471,240
33—	133: 1,470,840	66—	4: 1,471,029	97—	206: 1,470,879		320: 1,470,914		106: 1,471,104		146: 1,471,242
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34—	5: 1,470,703		46: 1,470,810		10: 1,470,929		38: 1,470,927	170—	5: 1,471,095		29: 1,470,917
	19: 1,470,653		1,470,858	101—	3: 1,471,192		51: R. 15,698		84: 1,470,909		38: 1,470,915
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	48: 1,470,650		1,470,823		126: 1,470,962		78: 1,470,857	171—	119: 1,470,682		17: 1,471,050
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35—	9: 1,470,845		129: 1,470,784		375: 1,470,644		83: 1,470,647		1,471,067		56: 1,470,994
	12: 1,470,632	71—	7: 1,470,968	102—	12: 1,470,591		1,470,884		228: 1,470,786	208—	115: 1,470,627
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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A. & P. Products Corporation, The, Jersey City, N. J. Canned salmon. 174,657–8; Oct. 23; Serial Nos. 179,696–7; published July 31, 1923.

A. Gazzoni & C., Bologna, Italy. Preparation for coughs. 174,827; Oct. 23; Serial No. 175,600; published Aug. 7, 1923.

Acheson Manufacturing Company, Rankin, Pa. Pipe and rent fittings, traps, etc. 174,550; Oct. 23; Serial No. 163,211; published July 24, 1923.

Adamson, Charles E., Wabash, Ind. Stoves, baking and annealing ovens, heaters, etc. 174,615; Oct. 23; Serial No. 179,125; published July 24, 1923.

Aeroil Burner Company, Inc., Union Hill, N. J. Oil-burning appliances. 174,659; Oct. 23; Serial No. 169,840; published July 17, 1923.

Aetna Life Insurance Company, Hartford, Conn. Monthly periodical. 174,870; Oct. 23; Serial No. 180,318; published July 31, 1923.

All Saints Cigar Co., Tampa, Fla. Cigars. 174,875; Oct. 23; Serial No. 180,165; published July 31, 1923.

Alta Clothing Company, Boston, Mass. Men's and youths' overcoats, raincoats, suit coats, suits, vests, and trousers. 174,644; Oct. 23; Serial No. 181,234; published Aug. 7, 1923.

American Arch Company, New York, N. Y. Fire and other brick. 174,558; Oct. 23; Serial No. 158,967; published July 17, 1923.

American Electric Equipment Co., Inc., New York, N. Y. Portable electric lamps and parts thereof, etc. 174,698; Oct. 23; Serial No. 175,755; published July 10, 1923.

American Electric Equipment Co., Inc., New York, N. Y. Portable electric lamps and parts thereof, etc. 174,699; Oct. 23; Serial No. 175,758; published July 10, 1923.

American Kreuger & Toll Corporation, New York, N. Y. Pharmaceutical preparation used for the treatment of foot and mouth diseases, etc., and disinfectant. 174,825; Oct. 23; Serial No. 174,719; published Aug. 7, 1923.

American Mutual Liability Insurance Company of Boston, Boston, Mass. Monthly publication. 174,840; Oct. 23; Serial No. 178,019; published July 31, 1923.

American Range & Foundry Company, also doing business as Minnesota Stove Company, Minneapolis, Minn. Electric stoves and ranges. 174,718; Oct. 23; Serial No. 173,551; published July 24, 1923.

Anchorage Packing Co., Seattle, Wash. Canned salmon. 174,687; Oct. 23; Serial No. 179,918; published July 31, 1923.

Archer, Lenah B., Navarre, Ohio. Alloy made from nickel ore for forging steel. 174,762; Oct. 23; Serial No. 168,288; published July 31, 1923.

Art Needle Mfg. Co., Inc., New York, N. Y. Hand embroidery needles. 174,928; Oct. 23.

Asbestos-, Limited, New York, N. Y. Ready-mixed paints. 174,853; Oct. 23; Serial No. 177,262; published June 19, 1923.

Atlanta Barbers Supply Company, Atlanta, Ga. Combination cold cream and face powder, deodorant, etc. 174,705; Oct. 23; Serial No. 176,592; published July 24, 1923.

Atlas Shear Co., The, Bridgeport, Conn. Shears and scissors. 174,723; Oct. 23; Serial No. 174,281; published July 24, 1923.

Axxo Chemical Co., New York, N. Y. Detergent in the nature of a water softener and soap. 174,812; Oct. 23; Serial No. 180,957; published July 24, 1923.

B & L Metal Stamping Co., Inc., New York, N. Y. Metal parts and fittings for electric-lighting fixtures, also complete electric-lighting fixtures. 174,577; Oct. 23; Serial No. 164,489; published July 24, 1923.

Baird-North Company, Providence, R. I. Watches. 174,885; Oct. 23; Serial No. 181,715; published July 24, 1923.

Baker, Hamilton and Pacific Company, San Francisco, Calif. Garden hose. 174,768; Oct. 23; Serial No. 170,359; published July 31, 1923.

Baldwin Tool Works, Parkersburg, W. Va. Shovels, spades, scoops, posthole diggers, etc. 174,760; Oct. 23; Serial No. 166,636; published Aug. 7, 1923.

Barash Bros., Inc., New York, N. Y. Ric-rac braid. 174,767; Oct. 23; Serial No. 170,269; published July 24, 1923.

Barr, Morris A., Valley Forge, Pa. Semiprecious stones. 174,891; Oct. 23; Serial No. 179,844; published July 10, 1923.

Barrett Company, The, New York, N. Y. Ready felt roofing. 174,747; Oct. 23; Serial No. 168,508; published July 17, 1923.

Bartholomew Battery & Supply Co., doing business as Bartholomew Battery Co., St. Louis, Mo. Secondary electrical batteries. 174,779; Oct. 23; Serial No. 157,020; published Apr. 3, 1923.

Bassett Jewelry Co., The, Providence, R. I. Pocket-knives. 174,915; Oct. 23.

Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 174,833; Oct. 23; Serial No. 176,319; published Aug. 7, 1923.

Beck, Wm. & Chas., Inc., Lawrence, Mass. Linen fire hose. 174,810; Oct. 23; Serial No. 177,950; published June 5, 1923.

Begley Mechanical Corporation, New York, N. Y. Automobile stop and direction indicators. 174,787; Oct. 23; Serial No. 144,309; published July 24, 1923.

Berger, Harry, doing business as Harry Berger Shirt Company, New York, N. Y. Men's and boys' shirts. 174,844; Oct. 23; Serial No. 177,763; published July 31, 1923.

Bessell Louis, New York, N. Y. Earrings, finger rings, pendants, scarf pins, etc. 174,852; Oct. 23; Serial No. 177,266; published July 24, 1923.

Bethlehem Fabricators, Inc., Bethlehem, Pa. Structural members. 174,750; Oct. 23; Serial No. 167,795; published July 17, 1923.

Big State Co. (See Hollis, Paul S.)

Block Gas Mantle Company, The, Youngstown, Ohio. Gas and gasoline mantles. 174,805; Oct. 23; Serial No. 180,651; published July 24, 1923.

Block, Leopold, doing business as Buffalo Jewelry Manufacturing Company, Buffalo, N. Y. Finger rings and neck chains. 174,777; Oct. 23; Serial No. 171,893; published July 24, 1923.

Block-Walsh Corporation, New York, N. Y. Table board game. 174,638; Oct. 23; Serial No. 181,010; published July 31, 1923.

Bonded Products Corporation, New York, N. Y. Soap and securing compounds. 174,873; Oct. 23; Serial No. 150,206; published July 24, 1923.

Booth-Cochran Co., San Diego, Calif. Preparation for removing callil and corns from the feet. 174,761; Oct. 23; Serial No. 167,796; published Aug. 7, 1923.

Botany Worsted Mills, Passaic, N. J. Worsted yarn fabric known as "reps." 174,588; Oct. 23; Serial No. 179,989; published July 24, 1923.

Bowman, John M., Lanark, Ill. Preparation for use in the treatment of hog cholera, and a vermifuge preparation. 174,642; Oct. 23; Serial No. 181,172; published July 31, 1923.

Boyd Packing Company. (See Patrick-Young Company.)

Boyriven, A., New York, N. Y. Automobile upholstery fabrics. 174,757; Oct. 23; Serial No. 165,120; published July 24, 1923.

Brach, L. S., Manufacturing Co., Newark, N. J. Radio head sets, radiodetectors, radiocrystals, etc. 174,594; Oct. 23; Serial No. 178,892; published July 24, 1923.

Brine, James W., Company, Boston, Mass. Surveying linemen's measuring outfits. 174,674; Oct. 23; Serial No. 172,580; published July 24, 1923.

Brine, James W., Company, Boston, Mass. Score books. 174,678; Oct. 24; Serial No. 172,730; published July 24, 1923.

Brine, James W., Boston, Mass. Flags, banners, pennants, etc. 174,821; Oct. 23; Serial No. 172,581; published July 24, 1923.

Brooks, George W., Topeka, Kans. Blackboards. 174,740; Oct. 23; Serial No. 149,884; published July 24, 1923.

Brown & Bigelow, St. Paul, Minn. Signs made of metal and celluloid. 174,557; Oct. 23; Serial No. 160,745; published July 17, 1923.

Brown, Geo. K., Co., Inc., Chattanooga, Tenn. Ice cream. 174,576; Oct. 23; Serial No. 164,576; published July 17, 1923.

Brunc Radio Corporation, New York, N. Y. Radio sending and receiving sets. 174,773; Oct. 23; Serial No. 171,442; published July 31, 1923.

Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Rubber and fabric tires. 174,569; Oct. 23; Serial No. 177,952; published July 24, 1923.

Buffalo Jewelry Manufacturing Company. (See Block, Leopold.)

Buffalo Weaving & Belting Co., Buffalo, N. Y. Brake lining. 174,923; Oct. 23.

Burroughs, Herbert D., Atlanta, Ga. Gasoline. 174,668; Oct. 23; Serial No. 170,751; published July 24, 1923.

Busy Bee Candy Company, St. Louis, Mo. Candy and cakes. 174,775; Oct. 23; Serial No. 171,829; published July 31, 1923.

C. G. Spring Company, The, Kalamazoo, Mich. Bumpers. 174,590–2; Oct. 23; Serial Nos. 179,705–7; published July 17, 1923.

Cadet Knitting Company, Philadelphia, Pa. Sweater coats. 174,586; Oct. 23; Serial No. 180,417; published July 24, 1923.

California Almond Packers, Inc., Sacramento and North Sacramento, Calif. Salted almonds. 174,630; Oct. 23; Serial No. 179,585; published July 31, 1923.

California Canneries Co., San Francisco, Calif. Canned fruits and vegetables. 174,894; Oct. 23; Serial No. 178,221; published Aug. 14, 1923.

Campbell Manufacturing Co., The, Rochester, N. Y. Patching paste. 174,883; Oct. 23; Serial No. 181,631; published July 31, 1923.
Canton Forge & Axle Company, Canton, Ohio. Tools, and particularly rail-anchor wrenches. 174,639; Oct. 23; Serial No. 181,059; published July 31, 1923.
Canvas Products Company, St. Louis, Mo. Tents, tarpaulins, wagon covers, etc. 174,720; Oct. 23; Serial No. 174,065; published July 17, 1923.
Canvas Products Company, St. Louis, Mo. Tents, tarpaulins, wagon covers, etc. 174,721; Oct. 23; Serial No. 174,068; published July 17, 1923.
Carleton Dry Goods Company, St. Louis, Mo. Shirts, nightgowns, and pyjamas. 174,585; Oct. 23; Serial No. 180,585; published July 24, 1923.
Carney, Linwood S., Boston, Mass. Nonalcoholic, maltless vegetable extract for soft-drink purposes. 174,865; Oct. 23; Serial No. 180,467; published July 31, 1923.
Central Radio Laboratories, Milwaukee, Wis. Radio signaling apparatus and parts thereof. 174,599; Oct. 23; Serial No. 178,164; published July 24, 1923.
Certain-Teed Products Corporation, Baltimore, Md., and St. Louis, Mo. Ready-mixed paints for interior surfaces. 174,643; Oct. 23; Serial No. 181,174; published uly 31, 1923.
Champion Appliance Manufacturing Company, Inc., Yonkers, N. Y. Clothes-washing machines and clothes wringers. 174,835; Oct. 23; Serial No. 176,399; published une 12, 1923.
Checks, Clara B., doing business as Cheeks & Co., New York, N. Y. Face wash or lotion. 174,927; Oct. 23.
Chore-Utensils Corporation of America, The, Orange, N. J. Dish, bottle, and pot mops. 174,561; Oct. 23; Serial No. 181,380; published July 24, 1923.
Clar, Ernst, St. Georgental, Czechoslovakia. Rhinestones and chatons. 174,710; Oct. 23; Serial No. 172,862; published July 10, 1923.
Cleveland Radio Manufacturing Company, The, Cleveland, Ohio. Radio sets and coupling coils, condensers, detectors, etc. 174,727; Oct. 23; Serial No. 162,667; published July 24, 1923.
Clnett, Peabody & Company, Inc., Troy, N. Y. Collars. 174,834; Oct. 23; Serial No. 176,326; published Aug. 7, 1923.
Cohn & Rosenberger, Inc., New York, N. Y. Bracelets and earrings. 174,570; Oct. 23; Serial No. 178,224; published July 10, 1923.
Cole, Albert J., doing business as Three-In-One Lantern Company, Denver, Colo. Electric lanterns. 174,707; Oct. 23; Serial No. 177,036; published July 10, 1923.
Colfax Fruit Growers Assn., Colfax, Calif. Fresh deciduous fruits. 174,624; Oct. 23; Serial No. 179,459; published July 31, 1923.
Colgate & Company, Jersey City, N. J. Perfumes and toilet waters. 174,679–82; Oct. 23; Serial No. 179,776–9; published July 31, 1923.
Colsman, Carl, doing business as Colsman & Co., Werdohl, Germany. Household and kitchen utensils made of aluminum. 174,755; Oct. 23; Serial No. 165,528; published July 24, 1923.
Commonwealth Color & Chemical Co., Brooklyn, N. Y. Printing inks. 174,620; Oct. 23; Serial No. 179,357; published July 24, 1923.
Concentrated Products Corporation, Carlstadt, N. J., and New York, N. Y. Laundry soap. 174,863; Oct. 23; Serial No. 180,527; published July 31, 1923.
Consolidated Rendering Co., Boston, Mass. Tallow used in making soap. 174,931; Oct. 23.
Continental Mills, Inc., Philadelphia and Germantown, Pa. Woolen fabrics in the piece. 174,634–5; Oct. 23; Serial No. 181,731–2; published Aug. 7, 1923.
Consolidated Textile Corporation, New York, N. Y. Unbleached sheeting. 174,819; Oct. 23; Serial No. 172,031; published July 24, 1923.
Consolidated Textile Corporation, New York, N. Y. Cotton piece goods. 174,881; Oct. 31; Serial No. 181,558; published Aug. 7, 1923.
Continental Watch and Jewelry Co. (See Goldin, Meyer.)
Cooke, Harry S., doing business as Presto Fire Extinguisher Company, Beacon, N. Y. Dry-powder tube fire extinguisher. 174,618; Oct. 23; Serial No. 179,295; published July 24, 1923.
Cuthbert, Richard G., doing business as Globe Radio Mfg. Co., New York, N. Y. Radio receiving and transmitting sets. 174,719; Oct. 23; Serial No. 173,956; published July 10, 1923.
Cutter Electrical and Manufacturing Company, The, Philadelphia, Pa. Electrical switches, circuit breakers. 174,688; Oct. 23; Serial No. 179,928; published July 31, 1923.
Dae Health Laboratories. (See International Consolidated Chemical Corporation.)
Dalton Hosiery Mills, Dalton, Ga. Hosiery. 174,841; Oct. 23; Serial No. 177,832; published July 31, 1923.
Davies, Rose & Co., Ltd., Boston, Mass. Extracts and flavorings for food purposes. 174,746; Oct. 23; Serial No. 168,517; published July 24, 1923.
Deagan, J. C., Inc. Xylophones. 174,862; Oct. 23; Serial No. 180,529; published July 24, 1923.
Deane Plaster Co., The, Yonkers, N. Y. Medicated and surgical plasters, kidney and medicated plasters. 174,771; Oct. 23; Serial No. 171,154; published Aug. 7, 1923.
Deemer & Company, Wilkes-Barre, Pa. Writing ink, typewriter ribbons, carbon paper, etc. 174,667; Oct. 23; Serial No. 171,206; published June 19, 1923.
De Haen, E., A. G., Seelze, Germany. Chemicals for general laboratory work, etc. 174,776; Oct. 23; Serial No. 171,832; published Aug. 7, 1923.
Dern Food Company, The, Colorado Springs, Colo. Coffee. 174,684; Oct. 23; Serial No. 179,857; published July 31, 1923.
Diamond Mills Paper Company, New York, N. Y. Toilet paper. 174,560; Oct. 23; Serial No. 181,387; published July 24, 1923.
Dinhofer Bros. Inc., New York, N. Y. Watchcases. 174,702; Oct. 23; Serial No. 176,168; published June 26, 1923.
Dobbs & Co., New York, N. Y. Caps, hats, gloves, neckwear, fur coats, suits, etc. 174,832; Oct. 23; Serial No. 178,257; published Aug. 7, 1923.
Doerr, Carl F., New York, N. Y. Glass cutter. 174,913; Oct. 23.
Domestic Electric Company, The, Cleveland, Ohio. Radio apparatus. 174,661; Oct. 23; Serial No. 169,626; published July 10, 1923.
Doscher, Charles A., doing business as The Eagle Products Company, Rochester, N. Y. Coffee. 174,924; Oct. 23.
Dougherty, W. F. & Sons, Incorporated, Philadelphia, Pa. Coal and gas combination ranges and broilers and warming closets. 174,568; Oct. 23; Serial No. 177,774; published July 17, 1923.
Duesenberg Automobile & Motors Co., Inc., Indianapolis, Ind. Pleasure motor cars and racing cars. 174,917; Oct. 23.
Dunn, Eli H., doing business as Eli Laboratory and E. H. Dunn & Co., Kansas City, Mo. Medical products. 174,820; Oct. 23; Serial No. 172,086; published Aug. 7, 1923.
Eagle Products Company, The. (See Doscher, Charles A.)
Eckelkamp, John, doing business as Parkview Electric Company, St. Louis, Mo. Electric time switches, light flashes, transformers, motors, etc. 174,567; Oct. 23; Serial No. 177,689; published July 10, 1923.
Eisenstadt Manufacturing Company, St. Louis, Mo. Bracelets, wristlets, neck chains, watch chains, etc. 174,889; Oct. 23; Serial No. 180,211; published July 10, 1923.
Eli Laboratory. (See Dunn, Eli H.)
Emeterio, Flores, New York, N. Y. Spanish paprika and spices. 174,793; Oct. 23; Serial No. 174,567; published July 24, 1923.
Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. 174,631; Oct. 23; Serial No. 179,663; published July 31, 1923.
English, Geo., jr., & Co., Shamokin, Pa. Hosiery and knitted underwear. 174,818; Oct. 23; Serial No. 180,847; published Aug. 7, 1923.
Etched Products Corporation, Long Island City, N. Y. Metallic hot-dish plaques. 174,830; Oct. 23; Serial No. 176,075; published July 24, 1923.
Evans, Mrs. C. H., Wichita Falls, Tex. Salad dressing. 174,792; Oct. 23; Serial No. 174,430; published June 19, 1923.
Excelsior Motor Mfg. and Supply Co., Chicago, Ill. Motor cycles and bicycles. 174,752; Oct. 23; Serial No. 167,718; published July 17, 1923.
Fahys, Joseph, & Company, New York, N. Y. Watchcases. 174,565; Oct. 23; Serial No. 177,597; published June 19, 1923.
Federal Rubber Company of Illinois, The, Chicago, Ill., and Cudahy, Wis. Casings and tires made wholly or partly of rubber. 174,552–6; Oct. 23; Serial Nos. 161,416–20; published Oct. 31, 1922.
Federal Rubber Company of Illinois, The, Chicago, Ill., and Cudahy, Wis. Tires made wholly or in part of rubber. 174,896; Oct. 23; Serial No. 178,336; published June 5, 1923.
Feinberg, David, Company, doing business as Snappee Co., Chelsea, Mass. Spring covers and grease boots. 174,604; Oct. 23; Serial No. 177,286; published July 17, 1923.
Felsenfeld, Jack J., New York, N. Y. Pearls, real and artificial. 174,888; Oct. 23; Serial No. 180,332; published July 10, 1923.
Fitzpatrick, Thomas J., Gloversville, N. Y. Bread. 174,782; Oct. 23; Serial No. 153,036; published July 24, 1923.
Flexlume Corporation, Buffalo, N. Y. Electrically-illuminated signs. 174,765; Oct. 23; Serial No. 169,630; published July 24, 1923.
Frankenberg, Morgan & Singleton, New York, N. Y. Woolen cloth. 174,804; Oct. 23; Serial No. 180,659; published July 31, 1923.
Freund, Freund & Company, New York, N. Y. Nankins and tickings in the piece. 174,902; Oct. 23; Serial No. 178,835; published July 31, 1923.
Fruhauf Bros. & Co., New York, N. Y. Men's and young men's outer garments. 174,836; Oct. 23; Serial No. 176,460; published Aug. 7, 1923.
Fulcra-Tan Company, assignor to Geltan Company, New York, N. Y. Tanning materials. 174,695; Oct. 23; Serial No. 180,118; published July 31, 1923.
G & H Products Co. (See Gleich, Valentine A.)
Garfield Worsted Mills, Garfield, N. J. Knitted woolen piece goods. 174,899; Oct. 23; Serial No. 178,604; published July 31, 1923.

Geltan Company. (See Fulcra-Tan Company.)
General Phonograph Corporation, New York, N. Y. Needles for talking machines and phonographs. 174,919; Oct. 23.
Georgene, Madame, Inc., New York, N. Y. Dolls. 174,691; Oct. 23; Serial No. 180,003; published July 31, 1923.
Germany, Mary, doing business as Mrs. Mary Germany, Dallas, Tex. Salad dressing. 174,701; Oct. 23; Serial No. 176,119; published July 24, 1923.
Ginsberg, R., & Bro., New York, N. Y. Ladies' hair nets. 174,882; Oct. 23; Serial No. 181,563; published Aug. 7, 1923.
Gleich, Valentine A., doing business as G & H Products Co., Columbus, Ohio. Writing inks. 174,700; Oct. 23; Serial No. 175,784; published June 26, 1923.
Globe Radio Manufacturing Co. (See Cuthbert, Richard G.)
Goldberg, G., & Sons, New York, N. Y. Stationery. 174,922; Oct. 23.
Goldblum, Theodore, doing business as Stanley Drug Company, Philadelphia, Pa. Medicine for general debility, nervous prostration, etc. 174,845; Oct. 23; Serial No. 177,736; published July 31, 1923.
Goldin, Meyer, doing business as Continental Watch and Jewelry Co., Chicago, Ill. Watch movements and watchcases. 174,824; Oct. 23; Serial No. 173,887; published July 24, 1923.
Gorton-Pew Fisheries Company, Gloucester, Mass. Salt codfish. 174,601; Oct. 23; Serial No. 177,910; published July 24, 1923.
Goshen Churn & Ladder Company, The, Goshen, Ind. Ladders. 174,772; Oct. 23; Serial No. 171,315; published July 24, 1923.
Gottlieb, Joseph, New York, N. Y. Watches, watch movements, and parts thereof. 174,632; Oct. 23; Serial No. 179,665; published July 24, 1923.
Grant, W. T., Company, New York, N. Y. Candy. 174,769; Oct. 23; Serial No. 170,881; published Aug. 14, 1923.
Graphoto Company, Boston, Mass. Coated glass plates for etching, drawing, and hand negatives. 174,581; Oct. 23; Serial No. 163,387; published July 24, 1923.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Cottonseed oil for frying, cooking, etc. 174,609; Oct. 23; Serial No. 176,106; published July 24, 1923.
Griffing Manufacturing Co., The, Norwalk, Conn. Braids, tinsel braids, cord edge, tubular, soutache, etc., braids. 174,843; Oct. 23; Serial No. 177,776; published July 31, 1923.
Guarantie Company, The. (See Kahil, Abraham A.)
Haines Manufacturing Corporation, Rochester, N. Y. Automobile accessories. 174,595; Oct. 23; Serial No. 178,841; published July 17, 1923.
Ham Boiler Corporation, New York, N. Y. Metallic cooking utensils. 174,662; Oct. 23; Serial No. 170,138; published Mar. 20, 1923.
Hamilton Rubber Manufacturing Company, Trenton, N. J. Fruit-jar rubbers. 174,817; Oct. 23; Serial No. 180,862; published July 31, 1923.
Hardinge Company, Inc., New York, N. Y. Ball and pebble mills. 174,921; Oct. 23.
Harlan, O. A., & Co., San Jose, Calif. Dried fruits and canned fruits and vegetables. 174,625; Oct. 23; Serial No. 179,469; published July 31, 1923.
Hay, Carl A., doing business as Newton Ice Cream Company, Newton, Kans. Ginger ale and beverages sold as soft drinks. 174,866; Oct. 23; Serial No. 180,428; published July 31, 1923.
Hayman, Leon, doing business as Hayman's Hair Shop. Hair dyes and colorings for eyebrows and lashes. 174,738; Oct. 23; Serial No. 159,581; published Aug. 7, 1923.
Hecht & Mendes Incorporated, New York, N. Y. Cotton fabrics, cotton and silk mixed fabrics, cotton and wool mixed fabrics, etc. 174,897; Oct. 23; Serial No. 178,560; published July 31, 1923.
Heller, B., & Company, Chicago, Ill. Garlic flavoring compound. 174,715; Oct. 23; Serial No. 172,990; published July 24, 1923.
Herrmann, Adolph S., New York, N. Y. Tablecloths, sheets, pillowcases, nankins. 174,753; Oct. 23; Serial No. 167,082; published May 22, 1923.
Highland Lake Paper Company, Walpole, Mass. Sheathing, waterproof building and roofing paper, tar felt, and asphalt shingles. 174,597; Oct. 23; Serial No. 178,611; published July 17, 1923.
Hillbern Thrift Corporation, Chicago, Ill. Printed books. 174,838; Oct. 23; Serial No. 176,626; published July 31, 1923.
Hillyard, Newton S., doing business as Hillyard Chemical Company, St. Joseph, Mo. Disinfectant. 174,861; Oct. 23; Serial No. 180,600; published Aug. 7, 1923.
Hockaday Company, The, Chicago, Ill. Wall-finishes and reducers. 174,689; Oct. 23; Serial No. 179,940; published July 3, 1923.
Hoffman, Elic A., doing business as E. A. Hoffman Candy Co., Los Angeles, Calif. Candy. 174,791; Oct. 23; Serial No. 174,393; published July 24, 1923.
Hohner, M., New York, N. Y. Mouth harmonicas. 174,874; Oct. 23; Serial No. 180,180; published July 24, 1923.
Hollis, Paul S., doing business as Big State Co., Fort Worth, Tex. Nonalcoholic maltless beverage powder used for making soft drinks. 174,676; Oct. 23; Serial No. 172,380; published July 24, 1923.
Houze, L. J., Convex Glass Company, Point Marion, Pa. Sheet glass. 174,652; Oct. 23; Serial No. 181,398; published July 31, 1923.
Howard Stove & Furnace Co., Ralston, Nebr. Heating furnaces. 174,860; Oct. 23; Serial No. 180,603; published July 24, 1923.
Hub Hosiery Mills, Boston, Mass. Infants' hose. 174,612; Oct. 23; Serial No. 179,730; published July 24, 1923.
Hughes, Herbert E., Cincinnati, Ohio. Collection of motto cards. 174,605; Oct. 23; Serial No. 177,127; published June 12, 1923.
Humberstone, C. C., doing business as Monarch Packing & Supply Co., Chicago, Ill. Compressed asbestos-fiber sheet packing. 174,696; Oct. 23; Serial No. 180,122; published July 31, 1923.
Index Visible, Inc., New Haven, Conn. Card indexes, index cards, cases, cabinets, etc. 174,783; Oct. 23; Serial No. 148,279; published July 24, 1923.
Indianapolis Abattoir Company, Indianapolis, Ind. Hams, bacons, sausages, shoulders, etc. 174,858; Oct. 23; Serial No. 176,629; published July 31, 1923.
Industrial Oil Co. Inc. East Providence, R. I. Gasoline. 174,653; Oct. 23; Serial No. 181,447; published July 31, 1923.
Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Hose composed of rubber and fabric. 174,813–14; Oct. 23; Serial Nos. 180,933–4; published July 31, 1923.
International Consolidated Chemical Corporation, Inc., doing business as Dae Health Laboratories, New York, N. Y. Medicinal preparation for intestinal disorders. 174,803; Oct. 23; Serial No. 180,702; published Aug. 7, 1923.
Irving Engineering Sales Co., Chicago, Ill. Radiator shutters for internal-combustion engines. 174,751; Oct. 23; Serial No. 167,722; published July 17, 1923.
Jennison-Wright Co., The, Toledo, Ohio. Floors and pavements, coatings, mastics, etc., for floors and pavements. 174,788; Oct. 23; Serial No. 131,736; published July 17, 1923.
Jennison-Wright Co., The, Toledo, Ohio. Pavements and floors and materials therefor. 174,789; Oct. 23; Serial No. 131,735; published July 17, 1923.
Jevne, H., Co., Los Angeles, Calif. Coffee. 174,726; Oct. 23; Serial No. 162,744; published Aug. 7, 1923.
Johnson, William H., New York, N. Y., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Paper, pencils, pens, etc. 174,580; Oct. 23; Serial No. 163,987; published July 24, 1923.
Justa Mfg. Co., Hugo, Okla. Washing compound. 174,640; Oct. 23; Serial No. 181,125; published July 24, 1923.
Ka-Nix Sales Co. (See Warnick, Edward A.)
Kahil, Abraham A., doing business as The Guarantie Company, New York, N. Y. Neckties, scarfs, and sweaters. 174,850; Oct. 23; Serial No. 177,492; published July 31, 1923.
Kahles, Charles W., Queens, N. Y. Cartoon feature. 174,829; Oct. 23; Serial No. 175,871; published July 31, 1923.
Kaldasz, Satie, Philadelphia, Pa. Laxative. 174,872; Oct. 23; Serial No. 180,224; published July 31, 1923.
Kant-Skore Piston Company, The, Cincinnati, Ohio. Pistons. 174,737; Oct. 23; Serial No. 152,207; published May 16, 1922.
Kaplan, Harry E., doing business as H. E. Kaplan & Co., Chicago, Ill. Finger rings. 174,887; Oct. 23; Serial No. 180,435; published July 10, 1923.
Katagi, Tamekichi, Seattle, Wash. Electrical stop and direction signal light systems for vehicles. 174,785; Oct. 23; Serial No. 145,110; published July 24, 1923.
Kaufman, Fred, New York, N. Y. Watches and parts thereof. 174,683; Oct. 23; Serial No. 179,796; published July 24, 1923.
Kelly, Douglas & Co., Vancouver, British Columbia, Canada. Tea. 174,732; Oct. 23; Serial No. 159,755; published Mar. 6, 1923.
Kerite Insulated Wire & Cable Company, Inc., The, Seymour, Conn., and New York, N. Y. Insulated wire and cables. 174,600; Oct. 23; Serial No. 178,106; published July 24, 1923.
King, George W., Boston, Mass. Edible vegetable fats and oils. 174,579; Oct. 23; Serial No. 164,111; published July 24, 1923.
Kings County Packing Co., Armona, Calif. Canned fruits. 174,748; Oct. 23; Serial No. 168,042; published July 24, 1923.
Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. 174,910; Oct. 23; Serial No. 179,105; published July 31, 1923.
Klosner, Morris, doing business as Klosner Improved Apparatus Company, New York, N. Y. Electric switches, telephone-control switches, amplifier-control switches, etc. 174,794; Oct. 23; Serial No. 174,579; published July 24, 1923.
Knitted Textiles Corporation, Allentown, Pa. Fabrics knitted of worsted, worsted and fiber silk, and all fiber silk. 174,636; Oct. 23; Serial No. 181,752; published Aug. 7, 1923.

Koetter, William H., doing business as Koetter Manufacturing Co., Peoria, Ill. Carbon remover for gasoline engines. 174,878; Oct. 23; Serial No. 180,126; published July 31, 1923.

Kohnstamm, H., & Co., Inc., New York, N. Y. Washing powder. 174,868; Oct. 23; Serial No. 180,375; published July 24, 1923.

Larson, Clifford M., Chicago, Ill. Liquid gauges, gauges for measuring the relative change in gravities of liquids, etc. 174,839; Oct. 23; Serial No. 178,049; published July 31, 1923.

Lazell Perfumer, Newburgh, N. Y. Rouge and powder compact package. 174,665; Oct. 23; Serial No. 179,390; published July 24, 1923.

Legion Publishing Corporation, New York, N. Y. Magazine section. 174,831; Oct. 23; Serial No. 176,196; published July 31, 1923.

Le Roye, Ltd., Chicago, Ill. Liquid preparation for keeping curl in hair. 174,574; Oct. 23; Serial No. 179,541; published July 24, 1923.

Lever Brothers Company, Cambridge, Mass. Soap. 174,859; Oct. 23; Serial No. 180,610; published July 24, 1923.

Levey Printing Company, Indianapolis, Ind. Periodical magazine. 174,717; Oct. 23; Serial No. 173,503; published June 26, 1923.

Levitan, Hyman, Boston, Mass. Artificial pearls. 174,564; Oct. 23; Serial No. 177,306; published July 10, 1923.

Levring & Company, Inc., St. Louis, Mo. Rennet extract, rennet tablets, and lactic-acid ferment. 174,572; Oct. 23; Serial No. 178,450; published July 24, 1923.

Lewis, G. B., Company, Watertown, Wis. Beehives. 174,926; Oct. 23.

Lightfoot Schultz Company, Hoboken, N. J. Soaps. 174,911; Oct. 23; Serial No. 179,108; published July 24, 1923.

Lincoln Record Corporation, New York, N. Y. Phonograph records. 174,877; Oct. 23; Serial No. 180,133; published July 24, 1923.

Lindsley, Benjamin F., doing business as The Perfection Bed Spring Company, Mansfield, Ohio. Bed springs. 174,828; Oct. 23; Serial No. 175,801; published July 31, 1923.

Lissauer & Company. (See Mirabeau, Marcel M.)

Lovejoy Manufacturing Company, Boston, Mass. Hydraulic shock absorber for automobiles. 174,563; Oct. 23; Serial No. 177,091; published July 17, 1923.

Lovejoy Manufacturing Company, Boston, Mass. Hydraulic shock absorber for automobiles. 174,708; Oct. 23; Serial No. 177,090; published July 17, 1923.

Lowenstein, L., & Son, doing business as National Feather & Pillow Company, Nashville, Tenn. Pillows containing feathers. 174,559; Oct. 23; Serial No. 157,491; published July 3, 1923.

Lund, George, doing business as George Lund Company, New York, N. Y. Dolls and animals cut-outs to be filled with sand. 174,641; Oct. 23; Serial No. 181,134; published July 31, 1923.

Lustroil Co. (See Nicomede, Joe.)

McCann, Eugene B., doing business as Mutual Benefit Association, New York, N. Y. Coupons for the purchase of merchandise. 174,823; Oct. 23; Serial No. 173,776; published July 31, 1923.

Mahr Manufacturing Company, Minneapolis, Minn. Oil-burning equipment, furnaces, torches, etc. 174,671; Oct. 23; Serial No. 172,683; published July 17, 1923.

Manchester Board & Paper Co., Inc., Richmond, Va. Cloth boards. 174,914; Oct. 23.

Marchiony Brothers, Inc., New York, N. Y. Ice cream, flavored ice, ice-cream bricks, etc. 174,918; Oct. 23.

Marquette Manufacturing Company, St. Paul, Minn. Luggage carriers, shock absorbers, combined fender braces and bumpers. 174,837; Oct. 23; Serial No. 176,561; published July 24, 1923.

Marshall Field & Company, Chicago, Ill. Wool and wool and silk mixture yarn. 174,645; Oct. 23; Serial No. 181,262; published Aug. 7, 1923.

Marshall Field & Company, Chicago, Ill. Muslin in the piece. 174,646; Oct. 23; Serial No. 181,263; published Aug. 7, 1923.

Marshall Field & Company, Chicago, Ill. Wool and wool and silk mixture yarn. 174,647; Oct. 23; Serial No. 181,266; published Aug. 7, 1923.

Marshall Field & Company, Chicago, Ill. Wool and wool and silk mixture yarn. 174,648; Oct. 23; Serial No. 181,268; published Aug. 7, 1923.

Marshall Field & Company, Chicago, Ill. Scissors, shears, and pocketknives. 174,851; Oct. 23; Serial No. 177,371; published July 31, 1923.

Marshall-Wells Company, Duluth, Minn. Coal and gas ranges, coal, gas, wood, and oil heaters, gasoline cookstoves and hot-air furnaces. 174,903; Oct. 23; Serial No. 178,855; published July 24, 1923.

Marvin, E. W., Company, Troy, N. Y. Nurses' collars, cuffs, aprons, caps, bibs, uniforms, etc. 174,796; Oct. 23; Serial No. 174,845; published July 24, 1923.

Meinhardt, Jacob A., doing business as J. A. Meinhardt Company, Chicago, Ill. Mops, mopsticks, and bathtub cleaners. 174,896; Oct. 23; Serial No. 180,876; published July 24, 1923.

Mercedes Buro Maschinen- und Waffen-Werke. (See Mez, Gustav.)

Metz, H. A., & Co., Inc., New York, N. Y. Preparation for removing starch and sizing from textiles. 174,802; Oct. 23; Serial No. 180,713; published Aug. 7, 1923.

Meyer, Bacharach & Friedheim, New York, N. Y. Neckties. 174,722; Oct. 23; Serial No. 174,183; published July 24, 1923.

Mez, Gustav, doing business as Mercedes Buro Maschinen- und Waffen-Werke, Benshausen, Post Mehlis, in Thuringia, Germany. Adding and calculating machines and parts thereof, etc. 174,724–5; Oct. 23; Serial No. 162,938–9; published July 31, 1923.

Military Order of The Cootie, New York and Brooklyn, N. Y. Hats, caps, tassels, and aprons. 174,754; Oct. 23; Serial No. 166,315; published July 24, 1923.

Miller, Alton L., doing business as Charles N. Miller Co., Boston, Mass. Candy. 174,626; Oct. 23; Serial No. 179,479; published July 31, 1923.

Miller & Van Winkle, Inc., Brooklyn, N. Y. Springs for general use. 174,758; Oct. 23; Serial No. 165,501; published July 31, 1923.

Miller, G. L., & Company, Inc., Wilmington, Del., and New York, N. Y. Bonds, certificates, booklets, stories. 174,826; Oct. 23; Serial No. 175,367; published July 31, 1923.

Minot, Hooper & Co., New York, N. Y. Cotton drilling in the piece. 174,801; Oct. 23; Serial No. 180,714; published July 31, 1923.

Mirabeau, Marcel M., doing business as Lissauer & Company, New York, N. Y. Jewelry. 174,697; Oct. 23; Serial No. 175,507; published July 10, 1923.

Modern Exterminating Co. (See Schoen, Seymour S.)

Mogul Electric Company, Seattle, Wash. Batteries. 174,770; Oct. 23; Serial No. 171,135; published July 31, 1923.

Monarch Corporation, The, Pittsburgh, Pa. Dehydrators and parts of dehydrators. 174,895; Oct. 23; Serial No. 178,268; published July 24, 1923.

Monarch Packing & Supply Co. (See Humberstone, C. C.)

Montgomery, Wm., & Co., Philadelphia, Pa. Sarsaparilla, ginger ale, cream soda, etc. 174,892; Oct. 23; Serial No. 179,811; published July 24, 1923.

Morrill, Geo. H., Co., Norwood, Mass. Printing ink. 174,786; Oct. 23; Serial No. 156,499; published July 10, 1923.

Munning, A. P., & Co., Matawan, N. J. Lime polishing compositions. 174,616; Oct. 23; Serial No. 179,214; published July 24, 1923.

Munter, Charles, New York, N. Y. Corsets, waist corsets, brassières, and men's, women's, and children's undergarments. 174,854–5; Oct. 23; Serial Nos. 177,192–3; published Aug. 7, 1923.

Munzer, Ida, Inc., New York, N. Y. Women's and children's textile underwear. 174,795; Oct. 23; Serial No. 174,586; published July 24, 1923.

Murray Company, The, Boston, Mass. Nonalcoholic, maltless sirup and extracts for beverage purposes. 174,637; Oct. 23; Serial No. 180,983; published July 31, 1923.

Muscente, Fausto A., doing business as Snow Cake Mfg. Co., Providence, R. I. Edible ice-cream containers. 174,709; Oct. 23; Serial No. 172,758; published July 24, 1923.

Mutual Benefit Association. (See McCann, Eugene B.)

National Nut Products Co., Inc., New York, N. Y. Salted nut meats. 174,912; Oct. 23; Serial No. 179,109; published July 31, 1923.

National Screw and Manufacturing Company, The, Cleveland, Ohio. Electric-lamp fixtures, electric motors and fans. 174,593; Oct. 23; Serial No. 179,418; published July 24, 1923.

Nature's Rival Company, Chicago, Ill. Brassières. 174,756; Oct. 23; Serial No. 165,406; published July 24, 1923.

Neptune Battery Co., New York, N. Y. Electric batteries. 174,582; Oct. 23; Serial No. 163,283; published Sept. 26, 1922.

New Hampshire Co-Operative Marketing Association, Inc., Manchester, N. H. Fresh eggs. 174,781; Oct. 23; Serial No. 153,101; published July 24, 1923.

New Jersey Zinc Company, The, Newark and Franklin, N. J. Zinc oxide. 174,809; Oct. 23; Serial No. 180,615; published Aug. 7, 1923.

Newton Ice Cream Company. (See Hay, Carl A.)

Nicholson's Raincoat Co., Limited, St. Albans, England. Waterproofed fabrics in the piece. 174,704; Oct. 23; Serial No. 176,497; published July 17, 1923.

Nicomede, Joe, doing business as Lustroil Co., Altoona, Pa. Polish for restoring the polish of musical instruments. 174,778; Oct. 23; Serial No. 169,317; published July 24, 1923.

Nissly Swiss Chocolate Company, Inc., Florin, Pa. Milk and almond chocolate. 174,925; Oct. 23.

Nitrate Agencies Company, New York, N. Y. Fertilizers. 174,864; Oct. 23; Serial No. 180,486; published July 10, 1923.

Nix Produce Company, Hastings, Fla. Irish potatoes. 174,743; Oct. 23; Serial No. 165,300; published June 5, 1923.

Norwalk Tire & Rubber Company, The, Norwalk, Conn. Elastic vehicle tires. 174,619; Oct. 23; Serial No. 179,315; published July 31, 1923.

Nu-Type Mfg. Company, The, Chicago, Ill. Mechanical pencils. 174,929; Oct. 23.

O. & T. Electric Corporation, New York, N. Y. Radio detector and amplifier tubes. 174,587; Oct. 23; Serial No. 180,293; published July 24, 1923.

Oertel Roofing Manufacturing Company, now by change of name, Stormcote Roofing Corporation, East St. Louis, Ill. Roofing materials. 174,551; Oct. 23; Serial No. 162,442; published July 17, 1923.

Oil Country Specialties Manufacturing Co., The, Coffeyville, Kans. Oil-well swabs, stuffing boxes, jereckl jets, wire-line sockets, and tongs. 174,797; Oct. 23; Serial No. 174,850; published July 24, 1923.

Orangevale Fruit Growers Exchange, Orangevale Colony, Calif. Fresh and deciduous fruits. 174,763; Oct. 23; Serial No. 168,782; published Aug. 14, 1923.

Pacific Radio Publishing Co., Inc., San Francisco, Calif. Monthly publication. 174,728; Oct. 23; Serial No. 161,747; published July 31, 1923.

Packard Motor Car Company of New York, New York, N. Y. Rubber tubes for pneumatic tires. 174,849; Oct. 23; Serial No. 177,510; published July 31, 1923.

Parker Brothers, Portland, Me., and Salem, Mass. Indoor table game. 174,800; Oct. 23; Serial No. 180,721; published July 31, 1923.

Parkview Electric Company. (See Eckelkamp, John.)

Patrick-Young Company, also doing business as Boyd Packing Company, Richmond, Va. Smoked hams and bacon. 174,633; Oct. 23; Serial No. 179,677; published July 31, 1923.

Peerless Confection Company, Chicago, Ill. Candies. 174,660; Oct. 23; Serial No. 169,605; published July 24, 1923.

Peerless Mfg. Co., The, Norristown, Pa. Toilet paper. 174,575; Oct. 23; Serial No. 179,678; published July 10, 1923.

Pennsylvania Lubricating Company, Pittsburgh, Pa. Lubricating oils and greases. 174,898; Oct. 23; Serial No. 178,566; published July 31, 1923.

Philadelphia Storage Battery Co., Philadelphia, Pa. Batteries and battery parts and supplies. 174,566; Oct. 23; Serial No. 177,617; published July 10, 1923.

Picard, Henri, New York, N. Y. Hats and caps. 174,730–1; Oct. 23; Serial Nos. 160,428–9; published July 31, 1923.

Pohlmann, Herman G., Chicago, Ill. Writing paper. 174,930; Oct. 23.

Poole Engineering and Machine Company, Baltimore and Woodberry, Baltimore, Md. Power and hand operated washing machines. 174,573; Oct. 23; Serial No. 179,428; published June 12, 1923.

Preserving Mushroom Co., Cleveland, Ohio. Salad dressing. 174,706; Oct. 23; Serial No. 176,693; published June 19, 1923.

Prouty-Bowler Soap Co., Des Moines, Iowa. Soap and soap flakes. 174,901; Oct. 23; Serial No. 178,771; published July 24, 1923.

Pure Oil Co., The, Columbus, Ohio. Gasoline. 174,920; Oct. 23.

Ragnet, P., Fils & J. Viennes, Troyes, France. Underwear and hosiery. 174,713–14; Oct. 23; Serial Nos. 172,957–8; published May 22, 1923.

Rajah Radio Guild, University City, Mo. Radio receiving sets and parts thereto. 174,876; Oct. 23; Serial No. 180,142; published July 31, 1923.

Reeves Coal and Dock Co., Minneapolis, Minn. Coal. 174,578; Oct. 23; Serial No. 164,194; published July 17, 1923.

Reiffman-Corn Inc., New York, N. Y. Vests for outer wear for men. 174,842; Oct. 23; Serial No. 177,801; published July 31, 1923.

Rey-Del-Rey Candy Co., Philadelphia, Pa. Candy. 174,669; Oct. 23; Serial No. 172,044; published July 24, 1923.

Richardson & Boynton Co., New York, N. Y. Warm-air furnace. 174,617; Oct. 23; Serial No. 179,222; published July 24, 1923.

Roberts, Lewis, Inc., Newark, N. J. Printing inks. 174,900; Oct. 23; Serial No. 178,629; published July 24, 1923.

Roper, Geo. D., Corporation, Rockford, Ill. Compilation and card index of recipes, and printed recipes. 174,857; Oct. 23; Serial No. 176,654; published July 31, 1923.

Rosen & Listengart, Brooklyn, N. Y. Phonographs and parts thereof. 174,627; Oct. 23; Serial No. 179,558; published July 24, 1923.

Rosenwald & Weil Inc., Chicago Ill. Wearing apparel for men and women. 174,816; Oct. 23; Serial No. 180,892; published Aug. 7, 1923.

Rubber Service Laboratories Company, The, Akron Ohio. Compound used in the curing of rubber articles. 174,774; Oct. 23; Serial No. 171,470; published Aug. 7, 1923.

Rubsam, J., Co., Inc., New York, N. Y. Pills and tablets for regulating menstrual functions. 174,744; Oct. 23; Serial No. 169,138; published July 24, 1923.

Russ, E. F., Company, Boston, Mass. Glue. 174,884; Oct. 23; Serial No. 181,700; published July 31, 1923.

Sanderson, Arthur N., West Springfield, Mass. Gold and silver polish. 174,693; Oct. 23; Serial No. 180,083; published July 24, 1923.

Sanford Riley Stoker Company, Worcester, Mass. Underfeed stokers. 174,649; Oct. 23; Serial No. 181,314; published July 24, 1923.

Saturn Mfg. & Sales Co. Inc., New York, N. Y. Electric and radio telephone jacks, plugs, and connections. 174,666; Oct. 23; Serial No. 171,473; published July 10, 1923.

Sawdey & Hunt, Los Angeles, Calif. Fresh lettuce and cantaloupes. 174,685; Oct. 23; Serial No. 179,884; published July 31, 1923.

Schlueter Manufacturing Company, St. Louis, Mo. Washboilers and galvanized washtubs. 174,711; Oct. 23; Serial No. 172,904; published June 12, 1923.

Schoedinger, F. O., Columbus, Ohio. Steel rules, zigzag rules, dividers, measuring tapes, etc. 174,670; Oct. 23; Serial No. 172,180; published July 24, 1923.

Schoedinger, F. O., Columbus, Ohio. Stove dampers, soldering furnaces, pipes, elbows, etc. 174,672; Oct. 23; Serial No. 172,183; published July 17, 1923.

Schoedinger, F. O., Columbus, Ohio. Soldering coppers, punches, chisels, rivet sets, etc. 174,673; Oct. 23; Serial No. 172,182; published July 24, 1923.

Schoedinger, F. O., Columbus, Ohio. Eaves-trough hangers, nails, rivets, brackets, bolts, and chains. 174,677; Oct. 23; Serial No. 172,184; published July 24, 1923.

Schoen, Seymour S., doing business as Modern Exterminating Co., New York, N. Y. Liquid for exterminating vermin. 174,808; Oct. 23; Serial No. 180,623; published Aug. 7, 1923.

Schulze, Louis, doing business as Success Pharmacal Co., Baltimore, Md. Remedy for toothache and neuralgia and medicinal preparation for removing corns. 174,867; Oct. 23; Serial No. 180,302; published July 31, 1923.

Schwartz, Chas., & Son, Washington, D. C. Watch movements. 174,745; Oct. 23; Serial No. 168,732; published June 26, 1923.

Sherman, Samuel, New York, N. Y. Traveling-bags, suitcases, brief cases, trunks, pocketbooks. 174,811; Oct. 23; Serial No. 144,882; published Oct. 11, 1921.

Sigler Bros. Co., The, Cleveland, Ohio. Jewelry. 174,749; Oct. 23; Serial No. 167,853; published July 24, 1923.

Smart, David, Chicago, Ill. Title of monthly magazine. 174,606; Oct. 23; Serial No. 177,112; published June 19, 1923.

Smith, Arthur G., doing business as The Spic Company, Chicago, Ill. Toilet powder. 174,871; Oct. 23; Serial No. 180,304; published July 31, 1923.

Smith Oil & Refining Company, Rockford, Ill. Lubricating oils and greases. 174,807; Oct. 23; Serial No. 180,628; published July 10, 1923.

Snap-On Wrench Company, Milwaukee, Wis. Screw drivers. 174,798; Oct. 23; Serial No. 180,776; published July 31, 1923.

Snappee Co. (See Feinberg, David, Company.)

Snell & Atherton, Inc., Brockton, Mass. Nippers. 174,815; Oct. 23; Serial No. 180,901; published July 31, 1923.

Snow Cake Mfg. Co. (See Muscente, Fausto A.)

Société Worth. (See Worth, Jean C.)

Spic Company, The. (See Smith, Arthur G.)

Stack Heater Company, Boston, Mass. Direct and indirect water heaters, instantaneous water heaters, etc. 174,735; Oct. 23; Serial No. 155,277; published July 24, 1923.

Stanley Drug Company. (See Goldblum, Theodore.)

Star Electric Motor Co., Newark, N. J. Electric motors, generators, and fans. 174,738–9; Oct. 23; Serial Nos. 152,036–7; published July 24, 1923.

Stern, C., & Mayer, Inc., New York, N. Y. Scarfs, neckties, cravats, and reefers. 174,621–2; Oct. 23; Serial Nos. 179,436–7; published Aug. 7, 1923.

Sterrett & Fleming, Incorporated, Washington, D. C. Used and secondhand motor vehicles. 174,608; Oct. 23; Serial No. 176,369; published July 17, 1923.

Stewart, John K., & Sons, Inc., Amsterdam, N. Y. Undershirts, underdrawers, and union suits made of knitted fabric for men. 174,847; Oct. 23; Serial No. 177,633; published Aug. 7, 1923.

Stormcote Roofing Corporation. (See Oertel Roofing Manufacturing Company.)

Stowe & Woodward Company, Newton, and Newton Upper Falls, Mass. Rubber-covered rolls for paper mills, tanneries, bleacheries, etc. 174,893; Oct. 23; Serial No. 178,198; published July 31, 1923.

Success Pharmacal Co. (See Schulze, Louis.)

Summerfield Company, Boston, Mass. Stoves. 174,904; Oct. 23; Serial No. 178,883; published July 24, 1923.

Supreme Orient O. O. H. & P., Schenectady, N. Y. Lapel buttons. 174,741; Oct. 23; Serial No. 145,596; published July 24, 1923.

Susanna Cocroft Laboratories Inc., New York, N. Y. Soap. 174,799; Oct. 23; Serial No. 180,751; published July 24, 1923.

Sutermeister, Lowell A., Dayton, Ohio. Ice-cream portion. 174,712; Oct. 23; Serial No. 172,912; published July 24, 1923.

Taiyo Trading Co., Inc., New York, N. Y. Canned crab meat. 174,607; Oct. 23; Serial No. 176,580; published July 24, 1923.

Tappan Stove Co., The, Mansfield, Ohio. Electric ranges and stoves. 174,675; Oct. 23; Serial No. 172,449; published July 10, 1923.

Tetralin-Gesellschaft mit beschränkter Haftung, Berlin, Germany. Soaps, liquids, powders, and pastes for cleaning, and a metal-polishing preparation. 174,742; Oct. 23; Serial No. 142,046; published July 24, 1923.

The -B-X- Saw Co., Boston, Mass. Hack saws. 174,611; Oct. 23; Serial No. 179,843; published July 24, 1923.
Thomas, D. W., Incorporated, Seattle, Wash. Artificial pearls. 174,890; Oct. 23; Serial No. 179,975; published July 10, 1923.
Three-In-One Lantern Company. (See Cole, Albert J.)
Tin Decorating Company of Baltimore, The, Baltimore, Md. Mechanical and other toys. 174,907; Oct. 23; Serial No. 179,068; published July 31, 1923.
Tin Decorating Company of Baltimore, The. (See Johnson, William H.)
Todd, Clarence S., doing business as Todd Drain-A-Tub Co., Kansas City, Mo. Rinsing and bluing tubs. 174,703; Oct. 23; Serial No. 176,295; published June 12, 1923.
Torsion Test Piston Ring Corporation, Newark, N. J. Piston rings. 174,686; Oct. 23; Serial No. 179,894; published July 31, 1923.
Tribune Company, The, Chicago, Ill. Heading for a newspaper column. 174,759; Oct. 23; Serial No. 166,413; published July 31, 1923.
Troy Milk Products Company, East Troy, Wis. Evaporated milk. 174,916; Oct. 23.
Tryon Mills of Vermont, Bennington, Vt. Men's undershirts, underdrawers, and union suits. 174,846; Oct. 23; Serial No. 177,636; published Aug. 7, 1923.
Turner, F. & H., Limited, Wallington, England, and Helmond, Netherlands. Cocoa and chocolate. 174,784; Oct. 23; Serial No. 147,745; published Aug. 15.
Tycer, Warren I., Roseville, Ohio. Earthenware utensils. 174,694; Oct. 23; Serial No. 180,088; published July 31, 1923.
Ullman, Sigmund, Company, New York, N. Y. Inks, blacks, etc. 174,734; Oct. 23; Serial No. 156,473; published July 24, 1923.
Union Oil Company of California, Los Angeles, Calif. Transmission oils and greases. 174,656; Oct. 23; Serial No. 181,547; published July 31, 1923.
Union Oil Company of California, Los Angeles, Calif. Transmission oils and greases. 174,879; Oct. 23; Serial No. 181,548; published July 31, 1923.
United Alloy Steel Corporation, New York, N. Y., and Canton, Ohio. Black and galvanized steel, rust-resisting and anticorrosive iron, etc. 174,736; Oct. 23; Serial No. 154,898; published July 31, 1923.
United Autographic Register Co., Chicago, Ill. Loose-leaf binders and leaves thereof. 174,663; Oct. 23; Serial No. 169,993; published July 24, 1923.
United Mills Company Inc., Louisville, Ky. Men's, women's, and children's hosiery. 174,650; Oct. 23; Serial No. 181,325; published Aug. 7, 1923.
Universal Theatres Concession Co., Chicago, Ill. Candy. 174,908; Oct. 23; Serial No. 179,070; published July 31, 1923.
Universal Theatres Concession Co., Chicago, Ill. Candy. 174,909; Oct. 23; Serial No. 179,072; published July 31, 1923.
Universe Corporation, Chicago, Ill. Refrigerators. 174,562; Oct. 23; Serial No. 181,156; published July 24, 1923.
Upco Manufacturing and Sales Company, The, Cincinnati, Ohio. Spark timers for internal-combustion engines. 174,906; Oct. 23; Serial No. 179,017; published July 31, 1923.
Viquesney, Ernest M., Spencer, Ind. Images, bric-a-brac, statuary, etc. 174,766; Oct. 23; Serial No. 170,228; published July 17, 1923.
Vita Food Company, The, Chicago, Ill. Maltless chocolate cereal beverages. 174,848; Oct. 23; Serial No. 177,529; published July 31, 1923.
Vitrefrax Company, Inc., The, Los Angeles, Calif. Refractory linings for forges, smelters, etc., refractory cements, etc. 174,664; Oct. 23; Serial No. 170,416; published July 17, 1923.
Voorhees Rubber Mfg. Co., Jersey City, N. J. Rubber hose. 174,729; Oct. 23; Serial No. 160,731; published July 31, 1923.
Vos, Arthur, New York, N. Y. Paper weights and desk ornaments. 174,603; Oct. 23; Serial No. 177,530; published July 24, 1923.
Warnick, Edward A., doing business as Ka-Nix Sales Co., Birmingham, Ala. Tooth paste. 174,869; Oct. 23; Serial No. 180,536; published July 31, 1923.
Warren Products Company Inc., The, New York, N. Y. Textile-material silk, linen, wool, cotton, or a mixture of same. 174,596; Oct. 23; Serial No. 178,685; published July 24, 1923.
Wasserman, A. F., Memphis, Tenn. Soap. 174,628; Oct. 23; Serial No. 179,574; published July 24, 1923.
Wearite Storage Battery Co., Philadelphia, Pa. Storage batteries. 174,690; Oct. 23; Serial No. 179,976; published July 31, 1923.
Wechsler Barber Silk Company, Inc., New York, N. Y. Silk piece goods. 174,654; Oct. 23; Serial No. 181,506; published Aug. 7, 1923.
Weideman Company, The, Cleveland, Ohio. Coffee. 174,710; Oct. 23; Serial No. 173,309; published July 24, 1923.
West Electric Hair Curler Company, Philadelphia, Pa. Hair nets. 174,589; Oct. 23; Serial No. 179,838; published July 24, 1923.
West, Mabel, doing business as Westnell Company, Houston, Tex. Liquid mouth wash for use in the treatment of pyorrhea, etc. 174,692; Oct. 23; Serial No. 180,036; published July 31, 1923.
Western Electric Company, Incorporated, New York, N. Y. Title to a monthly publication. 174,905; Oct. 23; Serial No. 178,941; published July 31, 1923.
Western Sausage & Provision Co., Inc., New York, N. Y. Tomato paste. 174,623; Oct. 23; Serial No. 179,442; published July 31, 1923.
Westland Oil Company, Scobey, Mont. Gasoline, kerosene, and lubricating oils and greases. 174,764; Oct. 23; Serial No. 169,612; published Feb. 27, 1923.
White Products Company, Chicago, Ill. Automobile windshield wipers. 174,786; Oct. 23; Serial No. 144,757; published July 24, 1923.
White, Robert E., Absecon, N. J. Cement and concrete blocks, bricks, and building units. 174,598; Oct. 23; Serial No. 178,200; published July 17, 1923.
White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Dental spotlights and lamps for the same. 174,610; Oct. 23; Serial No. 180,158; published July 24, 1923.
Whitely Exerciser Company, New York, N. Y. Punching-bag platforms and apparatus. 174,614; Oct. 23; Serial No. 179,121; published July 31, 1923.
Whitt, Louella, Malvern, Iowa. Disinfectant. 174,856; Oct. 23; Serial No. 177,059; published July 31, 1923.
Williams, Arthur A., doing business as Arthur Williams Shoe Company, Holliston, Mass. Leather used in manufacturing and repairing shoes. 174,571; Oct. 23; Serial No. 178,421; published July 17, 1923.
Wilson Tea Co., Inc., Seattle, Wash. Coffee. 174,602; Oct. 23; Serial No. 177,885; published July 24, 1923.
Wilson Welder & Metals Company, Inc., New York, N. Y. Electric welding machines, cables, resistance units, etc. 174,790; Oct. 23; Serial No. 118,198; published July 10, 1923.
Wilton Manufacturing Company, Inc., New York, N. Y. Cotton piece goods. 174,655; Oct. 23; Serial No. 181,507; published Aug. 7, 1923.
Wish, Fred A., Incorporated, New York, N. Y. Hosiery, sleeping garments, bibs, and aprons. 174,583; Oct. 23; Serial No. 180,642; published July 24, 1923.
Wish, Fred A., Incorporated, New York, N. Y. Bath soap. 174,806; Oct. 23; Serial No. 180,639; published July 24, 1923.
Wittnauer, A., Co., New York, N. Y. Watches. 174,651; Oct. 23; Serial No. 181,327; published July 24, 1923.
Wolverine Lubricants Co. of New York, New York, N. Y. Lubricating oils. 174,613; Oct. 23; Serial No. 179,504; published July 24, 1923.
Worth, Jean C., assignor to Société Worth, Paris, France. Perfumes. 174,822; Oct. 23; Serial No. 172,630; published Aug. 7, 1923.
Wyman, Partridge & Co., Minneapolis, Minn. Work and negligee shirts. 174,880; Oct. 23; Serial No. 181,550; published Aug. 7, 1923.
Zieser & Kling, St. Louis, Mo. Ladies' and misses' coats and suits. 174,584; Oct. 23; Serial No. 180,643; published July 24, 1923.
Zinsmeister, J., & Sons, Incorporated, Louisville, Ky. Coffee. 174,629; Oct. 23; Serial No. 179,577; published July 31, 1923.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Suebla, Edward J., Chicago, Ill. **Lezak Malt Extract.** For Malt Extract. 26,501; Oct. 23.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abbott, Samuel B., Columbus, Miss. Preparation for treatment of pyorrhea. 182,491; Oct. 23.
Acme Wire Company, The, New Haven, Conn. Insulated electric wire. 183,241; Oct. 23.
Albany Perforated Wrapping Paper Co., Albany, N. Y. Toilet paper and paper towels. 184,889; Oct. 23.
Aluminum Sales Co. Inc., New York, N. Y. Kitchen utensils. 142,379; Oct. 23.
American Crayon Company, The, Sandusky, Ohio. Water colors. 184,488; Oct. 23.
American Drafting Furniture Co., Inc., Rochester, N. Y. Drafting tables and boards and attachments for same, etc. 138,746; Oct. 23.
American Magnesium Corporation, Niagara Falls, N. Y. Magnesium and magnesium alloys. 182,492; Oct. 23.
American Metal Cap Company, Brooklyn, N. Y. Metal caps and closures. 181,628; Oct. 23.
American Wholesale Corporation (Baltimore Bargain House), Baltimore, Md. Sanitary napkins. 183,954; Oct. 23.
Anaconda Copper Mining Company, New York, N. Y. Metals and alloys and ingots, castings, etc. 165,112; Oct. 23.
Anchor Company, The. (See Goldstein, Abraham S.)
Animated Miniature Theatre Corp., The, New York, N. Y. Miniature theaters in the nature of an advertising device. 175,830; Oct. 23.
Apex Electric Manufacturing Company, The, Cleveland, Ohio. Electrical cookers. 183,430; Oct. 23.
Associated Oil Company, San Francisco, Calif. Kerosene. 177,064; Oct. 23.
Atkins, E. C., & Company, Indianapolis, Ind. Leather and rubber belting. 180,576; Oct. 23.
Automatic Curtain Co. (See Warren, Clyde W.)
Bandman, Albert, doing business as Metsan Dental Mfg. Co., New York, N. Y. Hypodermic needles. 184,890; Oct. 23.
Barber Asphalt Paving Company, The, Philadelphia, Pa. Ready-mixed metal roof paint, industrial paint, etc. 168,349; Oct. 23.
Baxter Bros. Co., The, Brunswick, Me. Canned vegetables. 182,559; Oct. 23.
Beecham, Emma, doing business as Beechams Laboratory, Oscawana-on-Hudson, N. Y. Perfume, toilet waters, face powders, etc. 170,362; Oct. 23.
Benedict, T. N., Mfg. Co., East Syracuse, N. Y. Silver-plated table and hollow ware, etc. 167,670; Oct. 23.
Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical-lighting-fixture units. 166,277; Oct. 23.
Benzo-Gas Motor Fuel Company, Kansas City, Mo. Lubricant for machinery. 167,512; Oct. 23.
Bernhard Ulmann Co., Inc., New York, N. Y. Yarns and threads of wool, worsteds, cotton, silk, etc. 184,698; Oct. 23.
Betterton-Rupert Coffee Co., Ashland, Ky. Coffee. 179,771; Oct. 23.
Billard, Pierre, Paris, France. Medicinal vaporizing device. 167,594; Oct. 23.
Blue Bird Food Company. (See Sanborn, Margaret R.)
Blue Ribbon Products Co. (See Childs, John D.)
Boncilla Laboratories, Incorporated. (See Crown Chemical Company.)
Briggs, John J., Indianapolis, Ind. Building stone, limestone, lime, cement, etc. 176,665; Oct. 23.
Burnham-Munger-Root Dry Goods Company, Kansas City, Mo. Cotton piece goods. 183,358; Oct. 23.
Butchart, Cuthbert S., Company, Inc., Rye, N. Y. Golf clubs. 168,453; Oct. 23.
C. & A. Drug Co., Elmer, N. J. Medicine used for sprains, bruises, bites, etc. 167,066; Oct. 23.
Campbell, Joseph, Company, assignor to Campbell Soup Company, Camden, N. J. Canned tomatoes, corn, peas, and beans. 172,370; Oct. 23.
Cantol Wax Company, Bloomington, Ind. Wax polishes. 184,493; Oct. 23.
Chaufouraux Glass Company, St. Louis, Mo. Photographic-dry-plate glass and picture glass. 181,728; Oct. 23.
Chemical Products Company. (See Smith, Raymond W.)
Chickamauga Cedar Company, Stevenson, Ala. Cedar products manufactured into rough and finished lumber for building construction. 183,095; Oct. 23.
Childs, John D., doing business as Blue Ribbon Products Co., Reading, Pa. Malt sirup for beverages. 180,419; Oct. 23.
Closure Service Corporation, Brooklyn, N. Y. Metal caps for bottles and jars. 181,248; Oct. 23.
Combs, Guy A., doing business as Standard Paint Manufacturing Co., Minneapolis, Minn. Paints, varnishes, paint enamels, stains. 183,554; Oct. 23.
Cook & Swan Company, Inc., New York, N. Y. Animal, fish, and vegetable oil for industrial purposes. 179,658; Oct. 23.
Corl, John B., doing business as United States Remedy Co., Jacksonville, Fla. Disinfectants. 181,013; Oct. 23.
Corse, G. H., jr., doing business as George H., Corse, Jr & Co., San Francisco, Calif. Canned fruits. 184,436; Oct. 23.
County Golf Company, The. (See Hill, Wilfrid.)
Cox, Abram, Stove Company, Philadelphia, Pa. Gas and coal stoves, ranges, and furnaces. 181,733; Oct. 23.
Crampton, John, & Co., Ltd., Manchester, England. Canned fish, preserved fruits, and vegetables. 183,255; Oct. 23.
Crown Chemical Company, The, (now by change of name Boncilla Laboratories, Incorporated), Indianapolis, Ind. Facial-pack cold cream, vanishing cream, face powder, etc. 176,669; Oct. 23.
Crown Chemical Company, The (now by change of name Boncilla Laboratories, Incorporated), Indianapolis, Ind. Facial pack. 176,670; Oct. 23.
Day, S. A., Manufacturing Company, The, Buffalo, N. Y. Paints and anticorrosive solutions for preserving iron, steel, and other metals. 184,601; Oct. 23.
Dean, N. E., Courtland, Calif. Fresh deciduous fruits—namely, pears. 184,602; Oct. 23.
Della Porta, Gennaro, New York, N. Y. Liquid hair tonic. 182,522; Oct. 23.
Delphie Specialty Manufacturing Company, Detroit, Mich. Electric clothes washers. 180,469; Oct. 23.
Denver Gas and Electric Light Company, Denver, Colo. Roofing and building paper, waterproofing cement, etc. 119,973; Oct. 23.
Dering, Fredericks M., Chicago, Ill. Wall boards. 182,571; Oct. 23.
Dolph, John C., Company, Newark, N. J. Varnish. 178,716; Oct. 23.
Donnelly Machine Co. Inc., Brockton, Mass. Electric flatirons. 182,573; Oct. 23.
Dowd, J. C., & Co., Inc., New York, N. Y. Receptacles. 183,469; Oct. 23.
Dunhill, Alfred, of London, Inc., New York, N. Y. Pipes, cigar and cigarette holders, and tobacco pouches. 179,265; Oct. 23.
DX Instrument Company. (See Hipple, Solomon R., assignor.)
Egyptian Lacquer Manufacturing Company, The, New York, N. Y. Lacquers, lacquer thinners, and enamels. 179,187; Oct. 23.
Electric Regulator Mfg. Corp., New York, N. Y. Compression rheostats, lamp sockets, electric flatirons, etc. 181,439; Oct. 23.
Electrical Specialty Company, Columbus, Ohio. Electrical apparatus. 151,150; Oct. 23.
El Rey Club Tamale & Enchilada Corporation. (See Griebnow, Frederick W.)
Emporium, The, San Francisco, Calif. Hair nets. 184,441; Oct. 23.
Erbar, Samuel M., doing business as Seroline Remedy Co., Red Wing, Minn. Preparation for the treatment of piles. 176,734; Oct. 23.
Evens & Howard Fire Brick Co., St. Louis, Mo. Fire brick. 179,995; Oct. 23.
Fine, M., & Sons, New York, N. Y. Work and negligee shirts. 182,656; Oct. 23.
Florasynth Laboratories, New York and Unionport, N. Y. Flavoring extract for food purposes. 179,192; Oct. 23.
Flynt, J. G., Tobacco Co., Winston-Salem, N. C. Tobacco. 183,563; Oct. 23.
Frankel Bros., New York, N. Y. Men's caps, sweaters, shoes, negligee shirts, and hosiery. 181,984; Oct. 23.
Frasher, Lee, East Lynn, W. Va. Preparation for use in treating diphtheria, etc. 182,241; Oct. 23.
Friedman & Friedman, Brooklyn, N. Y. Pyjamas. 159,354; Oct. 23.
Gartside's Iron Rust Soap Co., Philadelphia, Pa. Laundry blue. 180,534; Oct. 23.
General Water Heater Corporation, Los Angeles, Calif. Water heaters. 180,857; Oct. 23.
Glasser, H. W., Tobacco Products Co. (See Jaeger-Kunnert Co.)
Gold Medal Water-Proofing Co., assignor to Waterproofed Products Company, Oakland, Calif. Compound to be used in place of red-lead putty. 168,882; Oct. 23.
Goldstein, Abraham S., doing business as The Anchor Company. Individually-packed crystals (galena) for radio sets. 179,466; Oct. 23.
Granitface Company Inc., Brooklyn, N. Y. Stucco. 170,281-2; Oct. 23.

Graves, Frank B., Co., Albany, N. Y. Absorbent cotton. 179,367; Oct. 23.
Griebnow, Frederick W., doing business as El Rey Club Tamale & Enchilada Corporation, San Francisco, Calif. Fresh and canned tamales and enchiladas. 162,403; Oct. 23.
Heldfond, Samuel M., doing business as Heldfond Drug Company and Raymo Company, Portland, Oreg. Liquid antiseptic. 181,278; Oct. 23.
Hibben, John H., Dry Goods Co., The, Cincinnati, Ohio. Hosiery, knitted underwear, and leather and fabric gloves. 181,395; Oct. 23.
Highland Cordage Company, Highland and Hickory, N. C. Cords, twines, ropes, and lines. 185,583; Oct. 23.
Hill Manufacturing Co., Lewiston, Me., assignor to Hill Manufacturing Co., Boston, Mass. Cotton piece goods. 182,658; Oct. 23.
Hill Manufacturing Co., Lewiston, Me., assignor to Hill Manufacturing Co., Boston, Mass. Cotton fabrics. 182,659; Oct. 23.
Hill, Wilfrid, doing business as The County Golf Company, Birmingham, England. Golf balls. 175,393; Oct. 23.
Hipple, Solomon R., Williamsport, assignor to DX Instrument Company, Harrisburg, Pa. Rheostats. 173,047; Oct. 23.
Holt Manufacturing Co., Paterson, N. J. Terry toweling. 184,499; Oct. 23.
Houdaille Company, The, New York, N. Y. Automobile shock absorber. 161,625–6; Oct. 23.
International Dry Goods Co., Boston, Mass. Sweaters, union suits, shirts, etc. 182,753; Oct. 23.
Ireland Bros. Inc., New York, N. Y. Linen goods in the piece, handkerchiefs, and household goods manufactured from linen. 161,256; Oct. 23.
Jaeger-Kunnert Co., also doing business as H. W. Glasser Tobacco Products Co., Dubuque, Iowa. Smoking and chewing tobacco. 185,021; Oct. 23.
Jelenko, J. F., & Co., New York, N. Y. Dental golds, solders, plates, disks, etc. 185,593; Oct. 23.
Johann Schmidt Oblatenfabrik, Nuremberg, Germany. Wafers to be used for lining bakers' ware, apparatus for baking wafers. 165,572; Oct. 23.
Johnson Gas Appliance Company, Cedar Rapids, Iowa. Gas appliances. 176,348; Oct. 23.
Judge & Nagle, Philadelphia, Pa. Cigars. 182,311; Oct. 23.
Julian, C. C., Los Angeles, Calif. Gasoline, lubricating oils, and greases. 184,403–4; Oct. 23.
Kentucky Independent Oil Company, The, Covington, Ky. Lubricating motor oil. 184,285; Oct. 23.
Keystone Macaroni Manufacturing Company, Lebanon, Pa. Macaroni products. 181,130; Oct. 23.
Kinney Brothers, Binghamton, N. Y. Butter. 103,894; Oct. 23.
Kline, Edward A., doing business as E. A. Kline & Co., New York, N. Y. Tobacco products. 182,591; Oct. 23.
La Minnuette Trading Co. (See Schneider, Aaron.)
Lane Bryant, New York, N. Y. Outer and inner garments. 159,974; Oct. 23.
Lane Bryant, New York, N. Y. Outer and inner garments. 160,356; Oct. 23.
Lane, J. H., & Co., New York, N. Y. Fustian. 168,319; Oct. 23.
Lincoln Brothers, New York, N. Y. Cigars. 184,342; Oct. 23.
Linden, John O., Albuquerque, N. Mex. Massage appliance. 184,251; Oct. 23.
Lloyd, Milby W., doing business as Lloyd Tobacco Company, Ocala, Fla. Cigars. 185,302; Oct. 23, 1923.
Louvon Laboratory, Brooklyn, N. Y. Medicinal preparation for the treatment of burns, cuts, etc. 182,250; Oct. 23.
Lubri-Gaiters Limited, Montreal, Quebec, Canada. Casings, coverings, and holders for oil and grease for automobile springs and parts. 182,421; Oct. 23.
Lumb Knitting Company, Pawtucket, R. I. Infants' patented buttonless shirts. 156,496; Oct. 23.
MacKenzie's, Duncan, Sons Co., Trenton, N. J. Ferrous metals. 182,352; Oct. 23.
Malloy, Samuel J., New York, N. Y. Pharmaceutical preparations. 182,544; Oct. 23.
Marathon Tire & Rubber Company, Cuyahoga Falls, Ohio. Golf balls and golf-stick grips. 149,922; Oct. 23.
Marinette Electric Corporation, Marinette, Wis. Phones for use with radio and telephone apparatus. 182,353; Oct. 23.
Marshall Field & Company, Chicago, Ill. Writing paper. 146,536; Oct. 23.
Marshall Field & Company, Chicago, Ill. Muslin in the piece. 181,265; Oct. 23.
Master Tire & Rubber Co., The, Dayton, Ohio. Rubber tires. 175,726; Oct. 23.
Meade Rubber Company, Stoughton, Mass. Rubberized cloth. 174,173; Oct. 23.
Metalon Products Corporation, New York, N. Y. Metal paint, lacquer, powder, and casting composition. 184,088; Oct. 23.
Metsan Dental Mfg. Co. (See Bandman, Albert.)
Mildrum, W. W., Jewel Co., The, East Berlin, Conn. Fishing-rod mountings. 183,489; Oct. 23.
Mineral Products, Inc., Los Angeles, Calif. Roofing materials, composition flooring, stucco, artificial stone. 180,382; Oct. 23.
Mody, Frederick W., Manchester, England. Tobacco pipes. 179,160; Oct. 23.
Murphy, Edwin M., Macon, Miss. Medicinal preparation for use in the treatment of malaria and chills. 177,920; Oct. 23.
Murphy Iron Works, Detroit, Mich. Coal-burning furnaces and castings and coal-feeding stokers. 157,380; Oct. 23.
Neptune Products Company, New York, N. Y. Belt for prevention of nausea. 185,257; Oct. 23.
Northwestern Bakers & Confectioners Co., Minneapolis, Minn. Petroleum oil and slab oils, vegetable and mineral. 181,857; Oct. 23.
Ohio Brass Company, The, Mansfield, Ohio. Ears, clamps, hangers, and brackets, for suspending and supporting trolley wires, etc. 182,669; Oct. 23.
Olympia Canning Company, Olympia, Wash. Canned fruits. 178,271; Oct. 23.
Opitz Manufacturing Company, Milwaukee, Wis. Automobile radiators. 172,291; Oct. 23.
Owen, Percy W., doing business as Southern Feed Co., Birmingham, Ala. Cow, horse, mule, and hen feed. 180,489; Oct. 23.
Pacific By-Products Co., San Jose, Calif. Carbonizing compound. 163,000; Oct. 23.
Packard Motor Car Company of New York, New York, N. Y. Tire carriers. 182,521; Oct. 23.
Pan American Petroleum & Transport Company, Wilmington, Del. Gasoline. 184,620; Oct. 23.
Pandora Co., The. (See Sandra Laboratories, Inc.)
Paraffine Companies, Inc., The, San Francisco, Calif. Composition for coating roofs. 161,450; Oct. 23.
Paragon Cement Products Co., St. Louis, Mo. Cement products. 180,809; Oct. 23.
Pelican Bay Lumber Company, Klamath Falls, Oreg. Lumber, laths, moldings, sidings. 180,079; Oct. 23.
Pennsylvania Range Boiler Co., Philadelphia, Pa. Range boilers. 182,484; Oct. 23.
Pentucket Novelty Company. (See Pickett, Charles E.)
Pepsin Syrup Co., Monticello, Ill. Preparation for the treatment of digestive disorders. 184,148; Oct. 23.
Perth Amboy Chemical Works, Perth Amboy, N. J., and New York, N. Y. Formaldehyde. 181,410; Oct. 23.
Pesci, Alfonso J., Chicago, Ill. Furniture and automobile polish. 169,776; Oct. 23.
Pfeiffer, Frederick, St. Louis, Mo. Foot-arch supports 179,819; Oct. 23.
Philadelphia Storage Battery Co., Philadelphia, Pa. Electrolytes. 180,942; Oct. 23.
Philipps Aktien-Gesellschaft, Frankfort-on-the-Main, Germany. Boxes for music-note-roll ribbons and music note sheets. 150,287; Oct. 23.
Pickett, Charles E., doing business as Pentucket Novelty Company, Haverhill, Mass. Toy carts, coasters, wheelbarrows, scooters, and wagons. 177,196; Oct. 23.
"Prodor" Fabrique de Produits Organiques S. A., Geneva, Switzerland. Clay, tile, and terra-cotta pipes and conduits, columns, struts, etc. 171,954; Oct. 23.
Pure Oil Co., The, Columbus, Ohio. Gasoline. 164,003; Oct. 23.
Purity Ice Cream Company, Tulsa, Okla. Ice cream. 170,543; Oct. 23.
Rapoport, Maurice, & Co., New York, N. Y. Balls, bats, golf clubs, tennis rackets, etc. 183,502; Oct. 23.
Raymo Company. (See Heldfond, Samuel M.)
Red Chief Polish Manufacturing Company, New Orleans, La. Polish for automobiles, furniture, etc. 160,204; Oct. 23.
Red Foot Products Company, Inc., Detroit, Mich. Medicinal preparations. 179,742; Oct. 23.
Republic Iron & Steel Company, Youngstown, Ohio. Iron and steel. 183,994; Oct. 23.
Roebling's, John A., Sons Co., Trenton, N. J. Wire rope. 185,380; Oct. 23.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Women's, children's, and infants' coats, cloaks, wraps, capes, etc. 165,311; Oct. 23.
Sanborn, Margaret R., doing business as Blue Bird Food Company, Chicago, Ill. Salad dressings. 162,070; Oct. 23.
San Dimas Lemon Association, San Dimas, Calif. Fresh citrous fruits. 184,300; Oct. 23.
Sandra Laboratories, Inc., doing business as The Pandora Co., Newark, N. J. Toilet preparation for the skin. 182,486; Oct. 23.
San Joaquin Grocery Co., Fresno, Calif. Sulphur. 182,267; Oct. 23.
Savvas, John H., New York, N. Y. Olive oil. 182,011; Oct. 23.
Schering & Glatz, Inc., New York, N. Y. Phloridzin preparation for diagnostic purposes. 182,270; Oct. 23.
Schneider, Aaron, doing business as La Minnuette Trading Co., New York, N. Y. Rouges, face powders, compact, etc. 180,895; Oct. 23.

Schreyer & Co., Nuremberg, Germany. Fabric toy fixtures of all kinds. 179,824; Oct. 23.
Schwartz, L., & Sons, New York, N. Y. Ladies' coats and suits. 181,499; Oct. 23.
Schweitzer "Cocontina" Co., Limited, Holloway, London, England. Cocoa. 168,622; Oct. 23.
Scofield, Evans and Company, Chicago, Ill. Liquid floor finishing and maintenance preparations. 181,914; Oct. 23.
Scott, Grover C., Pittsburgh, Pa. Paste pigment in oil. 183,995; Oct. 23.
Scott Paper Company, Chester, Pa. Toilet paper. 185,623; Oct. 23.
Seroline Remedy Co. (See Erbar, Samuel M.)
Shaffer, Cleve T., San Francisco, Calif. Net game similar to tennis. 183,000; Oct. 23.
Sheip and Vandegrift, Inc., Philadelphia, Pa. Radio amplifier horns. 181,572; Oct. 23.
Shurtt Hosiery Company, Not Inc., The, Chicago, Ill. Hosiery. 180,195; Oct. 23.
Singh, Wassan, Portland, Oreg. Herb hair cream and massage cream. 145,923; Oct. 23.
"Smallex," Chicago, Ill. Inunction for the treatment of rheumatism. 154,155; Oct. 23.
Smith, Raymond W., doing business as Chemical Products Company, St. Louis, Mo. Eye remedy preparation for the treatment of sore, granulated, inflamed, etc., conditions of the eye or lids. 179,686; Oct. 23.
Southern Feed Co. (See Owen, Percy W.)
Standard Carbon Company, Monroe, La. Carbon black. 181,917; Oct. 23.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Candles. 165,831–3; Oct. 23.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Cylinder oil. 184,309; Oct. 23.
Standard Paint Manufacturing Co. (See Combs, Guy A.)
Stern, L., & Co., New York, N. Y. Lingual bars. 185,387; Oct. 23.
Sternau, S., & Co. Inc., New York, N. Y. Cooking stands, stoves, etc. 151,812; Oct. 23.
St. Maurice Paper Company, Limited, Montreal, Quebec, Canada. Paper pulp. 164,724; Oct. 23.
Stonewall Cotton Mills, The, Stonewall, Miss. Chambray, cheviot and denims in the piece. 183,415; Oct. 23.
Talento, Maria, Palermo, Italy. Medical compound for lung diseases and diseases of the bones and blood. 153,419; Oct. 23.
Townley Metal and Hardware Company, Kansas City, Mo. Carpenters' pencils. 185,633; Oct. 23.
Tryon Toy-Makers. (See Vance, Eleanor P., and Charlotte L. Yale.)
U. S. Hame Company, Buffalo, N. Y.; Chicago, Ill.; Cleveland, Ohio; and Detroit, Mich. Commercial-motor-vehicle bodies. 180,633; Oct. 23.
United States Remedy Co. (See Cori, John B.)
Vance, Eleanor P., and Charlotte L. Yale, doing business as Tryon Toy-Makers, Tryon, N. C. Children's toys. 182,080; Oct. 23.
Voorhees Rubber Mfg. Co., Jersey City, N. J. Hose made wholly or partly of rubber or rubber composition. 161,514; Oct. 23.
Wahl Refractory Products Co., The, Fremont, Ohio. High-temperature cement. 183,014; Oct. 23.
Wanamaker, John, New York, New York, N. Y. Perfumes, sachets, toilet water, etc. 182,321; Oct. 23.
Warren, Clyde W., doing business as Automatic Curtain Co., Sauk Rapids, Minn. Porch shades. 179,906; Oct. 23.
Waterproofed Products Company. (See Gold Medal Water-Proofing Co., assignor.)
Webers, Milwaukee, Wis. Candy. 159,826; Oct. 23.
Western Steel & Chemical Co. Inc., Chicago, Ill. Oil mops. 182,730; Oct. 23, 1923.
Whiting, Harris E., doing business as Whiting Leather Belting Company, Long Island City, N. Y. Leather belting. 179,977; Oct. 23.
Wicks & Greenman, Utica, N. Y. Boys' clothing. 174,351; Oct. 23.
Wilcox Mofflin Limited, Sydney, New South Wales, Australia. Hides, skins, tallow, and wool. 171,113; Oct. 23.
Willcomb, George, Company, Boston, Mass. Cotton piece goods. 167,282; Oct. 23.
Wonder Portable Dishwasher Company, Oakland, Calif. Electrical dishwashing machines. 182,454; Oct. 23.
Y-P Laboratories. (See Yeager, George.)
Yardsmore Golf Club Manufacturing Company, New York, N. Y. Golf clubs and golf-club heads. 173,268; Oct. 23.
Yeager, George, doing business as Y-P Laboratories, Cincinnati, Ohio. Medicinal preparation for sore throat and irritated tonsils. 179,762; Oct. 23.
Young Inventions Inc., New York, N. Y. Hosiery. 167,750; Oct. 23.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Coal. Reeves Coal and Dock Co. 174,578; Oct. 23; Serial No. 164,194; published July 17, 1923.
Leather. A. A. Williams. 174,571; Oct. 23; Serial No. 178,421; published July 17, 1923.

CLASS 2.

Rouge and powder compact package. Lazell Perfumer. 174,665; Oct. 23; Serial No. 170,300; published July 24, 1923.

CLASS 4.

Codfish, Salt. Gorton-Pew Fisheries Company. 174,601; Oct. 23; Serial No. 177,910; published July 24, 1923.
Detergent. Axxo Chemical Co. 174,812; Oct. 23; Serial No. 180,957; published July 24, 1923.
Lime polishing compositions. A. P. Munning & Co. 174,616; Oct. 23; Serial No. 179,214; published July 24, 1923.
Polish, Gold and silver. A. N. Sanderson. 174,693; Oct. 23; Serial No. 180,083; published July 24, 1923.
Soap. Lever Brothers Company. 174,859; Oct. 23; Serial No. 180,610; published July 24, 1923.
Soap. Susanna Crocroft Laboratories Inc. 174,799; Oct. 23; Serial No. 180,751; published July 24, 1923.
Soap. A. F. Wasserman. 174,628; Oct. 23; Serial No. 179,574; published July 24, 1923.
Soap and scouring compounds. Bonded Products Corporation. 174,873; Oct. 23; Serial No. 180,206; published July 24, 1923.
Soap and soap flakes. Prouty-Bowler Soap Co. 174,901; Oct. 23; Serial No. 178,771; published July 24, 1923.
Soap, Bath. Fred A. Wish, Incorporated. 174,806; Oct. 23; Serial No. 180,639; published July 24, 1923.
Soap, Laundry. Concentrated Products Corporation. 174,863; Oct. 23; Serial No. 180,527; published July 31, 1923.
Soaps. Lightfoot Schultz Company. 174,911; Oct. 23; Serial No. 179,108; published July 24, 1923.
Soaps, liquids, powders, pastes, for cleaning, and a metal-polishing preparation. Tetralin-Gesellschaft mit beschränker Haftung. 174,742; Oct. 23; Serial No. 142,046; published July 24, 1923.
Tallow used in making soap. Consolidated Rendering Co. 174,931; Oct. 23.
Washing compound. Justa Mfg. Co. 174,640; Oct. 23; Serial No. 181,125; published July 24, 1923.
Washing powder. H. Kohnstamm & Co. 174,868; Oct. 23; Serial No. 180,375; published July 24, 1923.

CLASS 5.

Glue. E. F. Russ Company. 174,884; Oct. 23; Serial No. 181,700; published July 31, 1923.
Paste, Patching. Campbell Manufacturing Co. 174,883; Oct. 23; Serial No. 181,631; published July 31, 1923.

CLASS 6.

Chemicals for general laboratory work, etc. E. de Haen A.-G. 174,776; Oct. 23; Serial No. 171,832; published Aug. 7, 1923.
Cough preparation. A. Gazzoni & C. 174,827; Oct. 23; Serial No. 175,600; published Aug. 7, 1923.
Cream and face powder, deodorant, etc., Combination cold. Atlanta Barbers Supply Company. 174,705; Oct. 23; Serial No. 176,592; published July 24, 1923.
Disinfectant. N. S. Hillyard. 174,861; Oct. 23; Serial No. 180,600; published Aug. 7, 1923.
Disinfectant. L. Whitt. 174,856; Oct. 23; Serial No. 177,059; published July 31, 1923.
Engines, Carbon remover for gasoline. W. H. Koetter. 174,878; Oct. 23; Serial No. 180,126; published July 31, 1923.
Hair dyes and colorings for eyebrows and lashes. L. Haymann. 174,733; Oct. 23; Serial No. 159,581; published Aug. 7, 1923.
Laxatives. S. Kaidasz. 174,872; Oct. 23; Serial No. 180,224; published July 31, 1923.

Liquid for exterminating vermin. S. S. Schoen. 174,808; Oct. 23; Serial No. 180,623; published Aug. 7, 1923.
Medical product. E. H. Dunn. 174,820; Oct. 23; Serial No. 172,086; published Aug. 7, 1923.
Medicinal preparation for intestinal disorders. International Consolidated Chemical Corporation. 174,803; Oct. 23; Serial No. 180,702; published Aug. 7, 1923.
Medicine for general debility, nervous prostration, etc. T. Goldblum. 174,845; Oct. 23; Serial No. 177,736; published July 31, 1923.
Mouth wash, Liquid. M. West. 174,692; Oct. 23; Serial No. 180,036; published July 31, 1923.
Perfumes. J. C. Worth. 174,822; Oct. 23; Serial No. 172,630; published Aug. 7, 1923.
Perfumes and toilet waters. Colgate & Company. 174,679–82; Oct. 23; Serial Nos. 179,776–9; published July 31, 1923.
Pharmaceutical preparation used for the treatment of foot and mouth diseases and disinfectant. American Kreuger & Toll Corporation. 174,825; Oct. 23; Serial No. 174,719; published Aug. 7, 1923.
Pills and tablets for regulating menstrual functions. J. Rubsam Co. 174,744; Oct. 23; Serial No. 169,138; published July 24, 1923.
Plasters, Medicated and surgical, kidney, and medicated. Deane Plaster Co. 174,771; Oct. 23; Serial No. 171,154; published Aug. 7, 1923.
Powder, Toilet. A. G. Smith. 174,871; Oct. 23; Serial No. 180,304; published July 31, 1923.
Preparation for keeping curl in hair, Liquid. Le Roye, Ltd. 174,574; Oct. 23; Serial No. 179,541; published July 24, 1923.
Preparation for removing calli and corns from the feet. Booth-Coabran Co. 174,761; Oct. 23; Serial No. 167,796; published Aug. 7, 1923.
Preparation for removing starch and sizing from textiles. H. A. Metz & Co. 174,802; Oct. 23; Serial No. 180,713; published Aug. 7, 1923.
Preparation for use in the treatment of hog cholera, and a vermifuge preparation. J. M. Bowman. 174,642; Oct. 23; Serial No. 181,172; published July 31, 1923.
Remedy for toothache and neuralgia and preparation for removing corns. L. Schulze. 174,867; Oct. 23; Serial No. 180,392; published July 31, 1923.
Rubber articles, Compound used in the curing of. Rubber Service Laboratories Company. 174,774; Oct. 23; Serial No. 171,470; published Aug. 7, 1923.
Tanning materials. Fulcra-Tan Company. 174,695; Oct. 23; Serial No. 180,118; published July 31, 1923.
Tooth paste. C. A. Warnick. 174,869; Oct. 23; Serial No. 180,336; published July 31, 1923.
Wash or lotion, Face. C. B. Cheeks. 174,927; Oct. 23.
Zinc oxide. New Jersey Zinc Company. 174,809; Oct. 23; Serial No. 180,615; published Aug. 7, 1923.

CLASS 10.

Fertilizers. Nitrate Agencies Company. 174,864; Oct. 23; Serial No. 180,486; published July 10, 1923.

CLASS 11.

Ink, Printing. Geo. H. Morrill Co. 174,780; Oct. 23; Serial No. 156,499; published July 10, 1923.
Ink, typewriter ribbons, carbon paper, etc., Writing. Deemer & Company. 174,667; Oct. 23; Serial No. 171,206; published June 19, 1923.
Inks, blacks, etc. Sigmund Ullman Company. 174,734; Oct. 23; Serial No. 156,473; published July 24, 1923.
Inks, Printing. Commonwealth Color & Chemical Co. 174,620; Oct. 23; Serial No. 179,357; published July 24, 1923.
Inks, Printing. Lewis Roberts, Inc. 174,900; Oct. 23; Serial No. 178,629; published July 24, 1923.
Inks, Writing. V. A. Gleich. 174,700; Oct. 23; Serial No. 175,784; published June 26, 1923.

CLASS 12.

Brick, Fire and other. American Arch Company. 174,558; Oct. 23; Serial No. 158,967; published July 17, 1923.
Cement and concrete blocks, bricks, and building units. R. E. White. 174,598; Oct. 23; Serial No. 178,200; published July 17, 1923.
Floors and pavements, coatings, mastics, etc., for same. Jennison-Wright Co. 174,788; Oct. 23; Serial No. 131,736; published July 17, 1923.
Paper, tar felt, and asphalt shingles, Sheathing, etc. Highland Lake Paper Company. 174,597; Oct. 23; Serial No. 178,611; published July 17, 1923.
Pavements and floors and materials therefor. Jennison-Wright Co. 174,789; Oct. 23; Serial No. 131,735; published July 17, 1923.
Refractory linings for forges, smelters, etc., Refractory bricks, cements, etc. Vitrefrax Company. 174,664; Oct. 23; Serial No. 170,416; published July 17, 1923.
Roofing materials. Oertel Roofing Manufacturing Company. 174,531; Oct. 23; Serial No. 162,442; published July 17, 1923.
Roofing, Ready felt. Barrett Company. 174,747; Oct. 23; Serial No. 168,508; published July 17, 1923.
Structural members. Bethlehem Fabricators, Inc. 174,750; Oct. 23; Serial No. 167,795; published July 17, 1923.

CLASS 13.

Cooking utensils, Metallic. Ham Boiler Corporation. 174,662; Oct. 23; Serial No. 170,138; published Mar. 20, 1923.
Eaves-trough hangers, nails, rivets, brackets, etc. F. O. Schoedinger. 174,677; Oct. 23; Serial No. 172,184; published July 24, 1923.
Household and kitchen utensils made of aluminum. C. Colsman. 174,755; Oct. 23; Serial No. 165,528; published July 24, 1923.
Pipe and vent fittings, traps, etc. Acheson Manufacturing Company. 174,550; Oct. 23; Serial No. 163,211; published July 24, 1923.
Springs. Miller & Van Winkle, Inc. 174,758; Oct. 23; Serial No. 165,501; published July 31, 1923.

CLASS 14.

Alloy made from nickel ore for forging steel. L. B. Archer. 174,762; Oct. 23; Serial No. 168,288; published July 31, 1923.
Steel, iron, metal sheets. United Alloy Steel Corporation. 174,736; Oct. 23; Serial No. 154,895; published July 31, 1923.

CLASS 15.

Gasoline. H. D. Burroughs. 174,668; Oct. 23; Serial No. 170,751; published July 24, 1923.
Gasoline. Industrial Oil Co. 174,653; Oct. 23; Serial No. 181,447; published July 31, 1923.
Gasoline. Pure Oil Co. 174,920; Oct. 23.
Gasoline, kerosene, and lubricating oils and greases. Westland Oil Company. 174,764; Oct. 23; Serial No. 169,612; published Feb. 27, 1923.
Oils and greases, Lubricating. Pennsylvania Lubricating Company. 174,898; Oct. 23; Serial No. 178,566; published July 31, 1923.
Oils and greases, Lubricating. Smith Oil & Refining Company. 174,807; Oct. 23; Serial No. 180,628; published July 10, 1923.
Oils and greases, Transmission. Union Oil Company of California. 174,656; Oct. 23; Serial No. 181,547; published July 31, 1923.
Oils and greases, Transmission. Union Oil Company of California. 174,879; Oct. 23; Serial No. 181,548; published July 31, 1923.
Oils, Lubricating. Wolverine Lubricants Co. of New York. 174,613; Oct. 23; Serial No. 179,504; published July 24, 1923.

CLASS 16.

Paints, Ready-mixed. Asbestos, Limited. 174,853; Oct. 23; Serial No. 177,262; published June 19, 1923.
Paints, Ready-mixed. Certain-Teed Producta Corporation. 174,643; Oct. 23; Serial No. 181,174; published July 31, 1923.
Polish for restoring the polish of musical instruments. J. Nicomede. 174,778; Oct. 23; Serial No. 169,317; published July 24, 1923.
Wall finishes and reducers. Hockaday Company. 174,689; Oct. 23; Serial No. 179,940; published July 3, 1923.

CLASS 17.

Cigars. All Saints Cigar Co. 174,875; Oct. 23; Serial No. 180,165; published July 31, 1923.

CLASS 19.

Automobile accessories. Haines Manufacturing Corporation. 174,595; Oct. 23; Serial No. 178,841; published July 17, 1923.
Bumpers. C. G. Spring Company. 174,590–2; Oct. 23; Serial Nos. 179,705–7; published July 17, 1923.
Cars, Pleasure motor and racing. Duesenberg Automobile & Motors Co. 174,917; Oct. 23.
Engines, Radiator shutters for internal-combustion. Irving Engineering-Sales Co. 174,751; Oct. 23; Serial No. 167,722; published July 17, 1923.
Luggage carriers, shock absorbers, combined fender braces and bumpers. Marquette Manufacturing Company. 174,837; Oct. 23; Serial No. 176,561; published July 24, 1923.
Motor cycles and bicycles. Excelsior Motor Mfg. and Supply Co. 174,752; Oct. 23; Serial No. 167,718; published July 17, 1923.
Shock absorbers for automobiles, Hydraulic. Lovejoy Manufacturing Company. 174,563; Oct. 23; Serial No. 177,091; published July 17, 1923.
Shock absorbers for automobiles, Hydraulic. Lovejoy Manufacturing Company. 174,708; Oct. 23; Serial No. 177,090; published July 17, 1923.
Spring covers and grease boots. David Feinberg Company. 174,604; Oct. 23; Serial No. 177,286; published July 17, 1923.
Vehicles, Used and secondhand motor. Sterrett & Fleming, Incorporated. 174,608; Oct. 23; Serial No. 176,369; published July 17, 1923.

CLASS 21.

Batteries. Mogul Electric Company. 174,770; Oct. 23; Serial No. 171,135; published July 31, 1923.
Batteries and battery parts and supplies. Philadelphia Storage Battery Co. 174,566; Oct. 23; Serial No. 177,617; published July 10, 1923.

Batteries, Electric. Neptune Battery Co. 174,582; Oct. 23; Serial No. 163,283; published Sept. 26, 1922.
Batteries, Secondary electrical. Bartholomew Battery & Supply Co. 174,779; Oct. 23; Serial No. 157,020; published Apr. 3, 1923.
Batteries, Storage. Wearite Storage Battery Co. 174,690; Oct. 23; Serial No. 179,976; published July 31, 1923.
Electric-lighting fixtures, also complete electric-lighting fixtures, Metal parts and fittings for. B & L Metal Stamping Co. 174,577; Oct. 23; Serial No. 164,489; published July 24, 1923.
Electric time switches, light flashes, transformers, etc. J. Eckelkamp. 174,567; Oct. 23; Serial No. 177,689; published July 10, 1923.
Engines, Spark timers for internal-combustion. Upco Manufacturing and Sales Company. 174,906; Oct. 23; Serial No. 179,017; published July 31, 1923.
Insulated wire and cables. Kerite Insulated Wire & Cable Company. 174,600; Oct. 23; Serial No. 178,106; published July 24, 1923.
Lamp fixtures, motors, and fans, Electric. National Screw and Manufacturing Company. 174,593; Oct. 23; Serial No. 179,418; published July 24, 1923.
Lamps and parts thereof, etc., Portable electric. American Electric Equipment Co. 174,698; Oct. 23; Serial No. 175,755; published July 10, 1923.
Lamps, parts thereof, etc., Portable electric. American Electric Equipment Co. 174,699; Oct. 23; Serial No. 175,758; published July 10, 1923.
Lanterns, Electric. A. J. Cole. 174,707; Oct. 23; Serial No. 177,036; published July 10, 1923.
Motors, generators, and fans, Electric. Star Electric Motor Co. 174,738–9; Oct. 23; Serial Nos. 152,036–7; published July 24, 1923.
Radio apparatus, Domestic Electric Company. 174,661; Oct. 23; Serial No. 169,626; published July 10, 1923.
Radio detector and amplifier tubes. O. & T. Electric Corporation. 174,587; Oct. 23; Serial No. 180,293; published July 24, 1923.
Radio head sets, radiodetectors, radiocrystals, etc. L. S. Brach Manufacturing Co. 174,594; Oct. 23; Serial No. 178,892; published July 24, 1923.
Radio receiving and transmitting sets. R. G. Cuthbert. 174,719; Oct. 23; Serial No. 173,956; published July 10, 1923.
Radio receiving sets and parts thereto. Rajah Radio Guild. 174,876; Oct. 23; Serial No. 180,142; published July 31, 1923.
Radio sending and receiving sets. Bruno Radio Corporation. 174,773; Oct. 23; Serial No. 171,442; published July 31, 1923.
Radio sets and coupling coils, condensers, detectors, etc. Cleveland Radio Manufacturing Company. 174,727; Oct. 23; Serial No. 162,667; published July 24, 1923.
Radio signaling apparatus and parts thereof. Central Radio Laboratories. 174,599; Oct. 23; Serial No. 178,164; published July 24, 1923.
Ranges and stoves, Electric. Tappan Stove Co. 174,675; Oct. 23; Serial No. 172,449; published July 10, 1923.
Signs. Flexlume Corporation. 174,765; Oct. 23; Serial No. 169,630; published July 24, 1923.
Stoves and ranges, Electric. American Range & Foundry Company. 174,718; Oct. 23; Serial No. 173,551; published July 24, 1923.
Switches and resistance control parts, Electric, telephone, and amplifier control, etc. M. Klosner. 174,794; Oct. 23; Serial No. 174,579; published July 24, 1923.
Switches, circuit breakers, Electrical. Cutter Electrical and Manufacturing Company. 174,688; Oct. 23; Serial No. 179,928; published July 31, 1923.
Telephone jacks, plugs, and connections. Saturn Mfg. & Sales Co. 174,666; Oct. 23; Serial No. 171,473; published July 10, 1923.
Vehicles, Electrical stop and direction signal light systems for. T. Katagi. 174,785; Oct. 23; Serial No. 145,110; published July 24, 1923.
Washing machines, Power and hand operated. Poole Engineering and Machine Company. 174,573; Oct. 23; Serial No. 179,428; published June 12, 1923.
Welding machines, cables, etc., Electric. Wilson Welder & Metals Company. 174,790; Oct. 23; Serial No. 118,198; published July 10, 1923.

CLASS 22.

Dolls. Madame Georgene, Inc. 174,691; Oct. 23; Serial No. 180,003; published July 31, 1923.
Dolls and animals, cut-outs. G. Lund. 174,641; Oct. 23; Serial No. 181,134; published July 31, 1923.
Game, Indoor table. Parker Brothers. 174,800; Oct. 23; Serial No. 180,721; published July 31, 1923.
Game, Table board. Block-Walsh Corporation. 174,638; Oct. 23; Serial No. 181,010; published July 31, 1923.
Punching bag platform and apparatus. Whitely Exerciser Company. 174,614; Oct. 23; Serial No. 179,121; published July 31, 1923.
Toys. Tin Decorating Company of Baltimore. 174,907; Oct. 23; Serial No. 179,068; published July 31, 1923.

CLASS 23.

Automobile stop and direction indicators. Begley Mechanical Corporation. 174,787; Oct. 23; Serial No. 144,309; published July 24, 1923.

Ball and pebble mills. Hardinge Company. 174,921; Oct. 23.
Fire extinguisher, Dry-powder tube. H. S. Cooke. 174,618; Oct. 23; Serial No. 179,295; published July 24, 1923.
Flags, banners, pennants, etc. James W. Brine Company. 174,821; Oct. 23; Serial No. 172,581; published July 24, 1923.
Glass cutter. C. F. Doerr. 174,913; Oct. 23.
Needles, Hand embroidery. Art Needle Mfg. Co. 174,928; Oct. 23.
Nippers. Snell & Atherton, Inc. 174,815; Oct. 23; Serial No. 180,901; published July 31, 1923.
Oil-well swabs, stuffing boxes, etc. Oil Country Specialties Manufacturing Co. 174,797; Oct. 23; Serial No. 174,850; published July 24, 1923.
Pistons. Kant-Skore Piston Company. 174,737; Oct. 23; Serial No. 152,207; published May 16, 1922.
Pocket knives. Bassett Jewelry Co. 174,915; Oct. 23.
Rubber-covered rolls for paper mills, tanneries, bleacheries, etc. Stowe & Woodward Company. 174,893; Oct. 23; Serial No. 178,198; published July 31, 1923.
Saws, Hack. The B-X Saw Co. 174,611; Oct. 23; Serial No. 179,843; published July 24, 1923.
Scissors, shears, and pocketknives. Marshall Field & Company. 174,851; Oct. 23; Serial No. 177,371; published July 31, 1923.
Screw drivers. Snap-On Wrench Company. 174,798; Oct. 23; Serial No. 180,776; published July 31, 1923.
Shears and scissors. Atlas Shear Co. 174,723; Oct. 23; Serial No. 174,281; published July 24, 1923.
Shovels, spades, scoops, etc. Baldwin Tool Works. 174,760; Oct. 23; Serial No. 166,636; published Aug. 7, 1923.
Soldering coppers, punches, chisels, etc. F. O. Schoedinger. 174,673; Oct. 23; Serial No. 172,182; published July 24, 1923.
Tools. Canton Forge & Axle Company. 174,639; Oct. 23; Serial No. 181,059; published July 31, 1923.

CLASS 24.

Clothes-washing machines and clothes wringers. Champion Appliance Manufacturing Company. 174,835; Oct. 23; Serial No. 176,399; published June 12, 1923.
Tubs, Rinsing and bluing. C. S. Todd. 174,703; Oct. 23; Serial No. 176,295; published June 12, 1923.
Washboilers and galvanized washtubs. Schlueter Manufacturing Co. 174,711; Oct. 23; Serial No. 172,904; published June 12, 1923.

CLASS 26.

Adding and calculating machines and parts thereof, etc. G. Mez. 174,724–5; Oct. 23; Serial No. 162,938–9; published July 31, 1923.
Gauges. C. M. Larson. 174,839; Oct. 23; Serial No. 178,049; published July 31, 1923.
Glass plates for etching, etc., Coated. Graphoto Company. 174,581; Oct. 23; Serial No. 163,387; published July 24, 1923.
Measuring outfits, Surveying linemen's. James W. Brine Company. 174,674; Oct. 23; Serial No. 172,580; published July 24, 1923.
Rules, dividers, etc., Steel and zigzag. F. O. Schoedinger. 174,670; Oct. 23; Serial No. 172,180; published July 24, 1923.

CLASS 27.

Watchcases. Dinhofer Bros. Inc. 174,702; Oct. 23; Serial No. 176,168; published June 26, 1923.
Watchcases. Joseph Fahys & Company. 174,565; Oct. 23; Serial No. 177,597; published June 19, 1923.
Watch movements. Chas. Schwartz & Son. 174,745; Oct. 23; Serial No. 168,732; published June 26, 1923.
Watch movements and watchcases. M. Goldin. 174,824; Oct. 23; Serial No. 173,887; published July 24, 1923.
Watches. Baird-North Company. 174,885; Oct. 23; Serial No. 181,715; published July 24, 1923.
Watches. A. Wittnauer Co. 174,651; Oct. 23; Serial No. 181,327; published July 24, 1923.
Watches and parts thereof. F. Kaufman. 174,683; Oct. 23; Serial No. 179,796; published July 24, 1923.
Watches, watch movements, and parts thereof. J. Gottlieb. 174,632; Oct. 23; Serial No. 179,665; published July 24, 1923.

CLASS 28.

Bracelets and earrings. Cohn & Rosenberger, Inc. 174,570; Oct. 23; Serial No. 178,224; published July 10, 1923.
Bracelets, wristlets, neck chains, etc. Eisenstadt Manufacturing Company. 174,889; Oct. 23; Serial No. 180,211; published July 10, 1923.
Earrings, finger rings, pendants, scarf pins, etc. L. Bessell. 174,852; Oct. 23; Serial No. 177,266; published July 24, 1923.
Jewelry. M. M. Mirabeau. 174,697; Oct. 23; Serial No. 175,507; published July 10, 1923.
Jewelry. Sigler Bros. Co. 174,749; Oct. 23; Serial No. 167,853; published July 24, 1923.
Pearls. J. J. Felsenfeld. 174,888; Oct. 23; Serial No. 180,332; published July 10, 1923.
Pearls, Artificial. H. Levitan. 174,564; Oct. 23; Serial No. 177,306; published July 10, 1923.

Pearls, Artificial. D. W. Thomas, Incorporated. 174,890; Oct. 23; Serial No. 179,975; published July 10, 1923.
Rhinestones and chatons. E. Ciar. 174,710; Oct. 23; Serial No. 172,862; published July 10, 1923.
Rings and neck chains, Finger. L. Block. 174,777; Oct. 23; Serial No. 171,893; published July 24, 1923.
Rings, Finger. H. E. Kaplan. 174,887; Oct. 23; Serial No. 180,435; published July 10, 1923.
Semiprecious stones. M. A. Barr. 174,891; Oct. 23; Serial No. 179,844; published July 10, 1923.

CLASS 29.

Automobile windshield wipers. White Products Company. 174,786; Oct. 23; Serial No. 144,757; published July 24, 1923.
Mops, Dish, bottle, and pot. Chore-Utensils Corporation of America. 174,561; Oct. 23; Serial No. 181,380; published July 24, 1923.
Mops, mopsticks, and bathtub cleaners. J. A. Meinhardt. 174,886; Oct. 23; Serial No. 180,876; published July 24, 1923.

CLASS 30.

Earthenware utensils. W. I. Tycer. 174,694; Oct. 23; Serial No. 180,088; published July 31, 1923.

CLASS 31.

Refrigerators. Universe Corporation. 174,562; Oct. 23; Serial No. 181,156; published July 24, 1923.

CLASS 32.

Bedsprings. B. F. Lindsley. 174,828; Oct. 23; Serial No. 175,801; published July 31, 1923.
Pillows. L. Lowenstein & Son. 174,559; Oct. 23; Serial No. 157,491; published July 3, 1923.

CLASS 33.

Glass, Sheet. L. J. House Convex Glass Company. 174,652; Oct. 23; Serial No. 181,398; published July 31, 1923.

CLASS 34.

Dampers, soldering furnaces, etc., Stove. F. O. Schoedinger. 174,672; Oct. 23; Serial No. 172,183; published July 17, 1923.
Dehydrators and parts of dehydrators. Monarch Corporation. 174,893; Oct. 23; Serial No. 178,268; published July 24, 1923.
Furnaces, etc., Oil-burning equipment. Mahr Manufacturing Company. 174,671; Oct. 23; Serial No. 172,683; published July 17, 1923.
Furnaces, Heating. Howard Stove & Furnace Co. 174,860; Oct. 23; Serial No. 180,603; published July 24, 1923.
Furnaces, Warm-air. Richardson & Boynton Co. 174,617; Oct. 23; Serial No. 179,222; published July 24, 1923.
Mantles, Gas and gasoline. Block Gas Mantle Company. 174,805; Oct. 23; Serial No. 180,651; published July 24, 1923.
Oil-burning appliances. Aeroil Burner Company. 174,659; Oct. 23; Serial No. 169,840; published July 17, 1923.
Ranges and boilers, etc., Coal and gas combination. W. F. Dougherty & Sons, Incorporated. 174,568; Oct. 23; Serial No. 177,774; published July 17, 1923.
Ranges, heaters, stoves, and furnaces. Marshall-Wells Company. 174,903; Oct. 23; Serial No. 178,855; published July 24, 1923.
Stokers, Underfeed. Sanford Riley Stoker Company. 174,649; Oct. 23; Serial No. 181,314; published July 24, 1923.
Stoves. Summerfield Company. 174,904; Oct. 23; Serial No. 178,883; published July 24, 1923.
Stoves, ovens, heaters, etc. C. B. Adamson. 174,615; Oct. 23; Serial No. 179,125; published July 24, 1923.
Water heaters. Stack Heater Company. 174,735; Oct. 23; Serial No. 155,277; published July 24, 1923.

CLASS 35.

Bags, suitcases, trunks, etc., Traveling. S. Sherman. 174,811; Oct. 23; Serial No. 144,882; published Oct. 11, 1921.
Brake lining. Buffalo Weaving & Belting Co. 174,923; Oct. 23.
Hose. Ingersoll-Rand Company. 174,813–14; Oct. 23; Serial Nos. 180,933–4; published July 31, 1923.
Hose. Voorhees Rubber Mfg. Co. 174,729; Oct. 23; Serial No. 160,731; published July 31, 1923.
Hose, Garden. Baker, Hamilton and Pacific Company. 174,768; Oct. 23; Serial No. 170,359; published July 31, 1923.
Hose, Linen fire. Wm. & Chas. Beck, Inc. 174,810; Oct. 23; Serial No. 177,950; published June 5, 1923.
Packing, Compressed asbestos-fiber sheet. C. C. Humberstone. 174,695; Oct. 23; Serial No. 180,122; published July 31, 1923.
Piston rings. Torsion Test Piston Ring Corporation. 174,686; Oct. 23; Serial No. 179,894; published July 31, 1923.
Rubber or part-rubber casings and tires. Federal Rubber Company of Illinois. 174,552–6; Oct. 23; Serial Nos. 161,416–20; published Oct. 31, 1922.
Rubbers, Fruit-jar. Hamilton Rubber Manufacturing Company. 174,817; Oct. 23; Serial No. 180,862; published July 31, 1923.
Tires. Federal Rubber Company of Illinois. 174,896; Oct. 23; Serial No. 178,336; published June 5, 1923.
Tires, Elastic vehicle. Norwalk Tire & Rubber Company. 174,619; Oct. 23; Serial No. 179,315; published July 31, 1923.
Tires, Rubber and fabric. Brunswick-Balke-Collender Company. 174,569; Oct. 23; Serial No. 177,952; published July 24, 1923.
Tires, Rubber tubes for pneumatic. Packard Motor Car Company of New York. 174,849; Oct. 23; Serial No. 177,510; published July 31, 1923.

CLASS 36.

Harmonicas, Mouth. M. Hohner. 174,874; Oct. 23; Serial No. 180,180; published July 24, 1923.
Phonograph records. Lincoln Record Corporation. 174,877; Oct. 23; Serial No. 180,133; published July 24, 1923.
Phonographs and parts thereof. Rosen & Listengart. 174,627; Oct. 23; Serial No. 179,558; published July 24, 1923.
Talking-machine and phonograph needles. General Phonograph Corporation. 174,919; Oct. 23.
Xylophones. J. C. Deagan, Inc. 174,862; Oct. 23; Serial No. 180,529; published July 24, 1923.

CLASS 37.

Binders and leaves therefor, Loose-leaf. United Autographic Register Co. 174,663; Oct. 23; Serial No. 169,993; published July 24, 1923.
Books, Score. James W. Brine Company. 174,678; Oct. 23; Serial No. 172,730; published July 24, 1923.
Card indexes, index cards, cases, cabinets, etc. Index Visible, Inc. 174,783; Oct. 23; Serial No. 148,279; published July 24, 1923.
Cloth boards. Manchester Board & Paper Co. 174,914; Oct. 23.
Paper, pencils, pens, etc. W. H. Johnson. 174,580; Oct. 23; Serial No. 163,987; published July 24, 1923.
Paper, Toilet. Diamond Mills Paper Company. 174,560; Oct. 23; Serial No. 181,387; published July 24, 1923.
Paper, Toilet. Peerless Mfg. Co. 174,575; Oct. 23; Serial No. 179,678; published July 10, 1923.
Paper weights and desk ornaments. A. Vos. 174,603; Oct. 23; Serial No. 177,530; published July 24, 1923.
Paper, Writing. H. G. Pohlmann. 174,930; Oct. 23.
Pencils, Mechanical. Nu-Type Mfg. Company. 174,929; Oct. 23.
Stationery. G. Goldberg & Sons. 174,922; Oct. 23.

CLASS 38.

Bonds, certificates, booklets, stories. G. L. Miller & Company. 174,826; Oct. 23; Serial No. 175,367; published July 31, 1923.
Books, Printed. Hilbern Thrift Corporation. 174,838; Oct. 23; Serial No. 176,626; published July 31, 1923.
Cards, Collection of motto. H. E. Hughes. 174,606; Oct. 23; Serial No. 177,127; published June 12, 1923.
Cartoon feature. C. W. Kahles. 174,829; Oct. 23; Serial No. 175,871; published July 31, 1923.
Coupons for the purchase of merchandise. E. B. McCann. 174,823; Oct. 23; Serial No. 173,776; published July 31, 1923.
Magazine, Periodical. Levey Printing Company. 174,717; Oct. 23; Serial No. 173,503; published June 26, 1923.
Magazine section. Legion Publishing Corporation. 174,831; Oct. 23; Serial No. 176,196; published July 31, 1923.
Magazine, Title of monthly. D. Smart. 174,606; Oct. 23; Serial No. 177,112; published June 19, 1923.
Newspaper column, Heading for. Tribune Company. 174,759; Oct. 23; Serial No. 166,413; published July 31, 1923.
Periodical, Monthly. Aetna Life Insurance Company. 174,870; Oct. 23; Serial No. 180,318; published July 31, 1923.
Publication, Monthly. American Mutual Liability Insurance Company of Boston. 174,840; Oct. 23; Serial No. 178,019; published July 31, 1923.
Publication, Monthly. Pacific Radio Publishing Co. 174,728; Oct. 23; Serial No. 161,747; published July 31, 1923.
Publication title. Western Electric Company. 174,905; Oct. 23; Serial No. 178,941; published July 31, 1923.
Recipes and printed recipes, Compilation and card index of. Geo. D. Roper Corporation. 174,857; Oct. 23; Serial No. 176,654; published July 31, 1923.

CLASS 39.

Apparel for men and women, Wearing. Rosenwald & Weil Inc. 174,816; Oct. 23; Serial No. 180,892; published Aug. 7, 1923.
Brassières. Nature's Rival Company. 174,756; Oct. 23; Serial No. 165,406; published July 24, 1923.
Caps, hats, gloves, fur coats, etc. Dobbs & Co. 174,832; Oct. 23; Serial No. 176,257; published Aug. 7, 1923.
Collars. Cluett, Peabody & Company. 174,834; Oct. 23; Serial No. 176,326; published Aug. 7, 1923.
Collars, cuffs, aprons, caps, bibs, uniforms, etc., Nurses'. E. W. Marvin Company. 174,796; Oct. 23; Serial No. 174,845; published July 24, 1923.

Coats and suits, Ladies' and misses'. Zieser & Kling. 174,584; Oct. 23; Serial No. 180,643; published July 24, 1923.
Corsets, waist corsets, brassières, and undergarments. C. Munter. 174,854–5; Oct. 23; Serial Nos. 177,192–3; published Aug. 7, 1923.
Garments, Men's and young men's outer. Fruhauf Bros. & Co. 174,836; Oct. 23; Serial No. 176,460; published Aug. 7, 1923.
Hats and caps. H. Picard. 174,730–1; Oct. 23; Serial Nos. 160,428–9; published July 31, 1923.
Hats, caps, tassels, and aprons. Military Order of The Cootie. 174,754; Oct. 23; Serial No. 166,315; published July 24, 1923.
Hose, Infants'. Hub Hosiery Mills. 174,612; Oct. 23; Serial No. 179,730; published July 24, 1923.
Hosiery. Bear Brand Hosiery Co. 174,833; Oct. 23; Serial No. 176,319; published Aug. 7, 1923.
Hosiery. Dalton Hosiery Mills. 174,841; Oct. 23; Serial No. 177,832; published July 31, 1923.
Hosiery. United Mills Company. 174,650; Oct. 23; Serial No. 181,325; published Aug. 7, 1923.
Hosiery and knitted underwear. Geo. English, Jr., & Co. 174,818; Oct. 23; Serial No. 180,847; published Aug. 7, 1923.
Hosiery, sleeping garments, bibs, and aprons. Fred A. Wish, Incorporated. 174,583; Oct. 23; Serial No. 180,642; published July 24, 1923.
Neckties. Meyer, Bacharach & Friedheim. 174,722; Oct. 23; Serial No. 174,183; published July 24, 1923.
Neckties, scarfs, and sweaters. A. A. Kahll. 174,850; Oct. 23; Serial No. 177,492; published July 31, 1923.
Overcoats, raincoats, suit coats, suits, vests, and trousers, Men's and youths.' Alta Clothing Company. 174,644; Oct. 23; Serial No. 181,234; published Aug. 7, 1923.
Scarfs, neckties, cravats, reefers. C. Stern & Mayer, Inc. 174,621–2; Oct. 23; Serial Nos. 179,436–7; published Aug. 7, 1923.
Shirts, Men's and boys'. H. Berger. 174,844; Oct. 23; Serial No. 177,763; published July 31, 1923.
Shirts, nightgowns, and pyjamas. Carleton Dry Goods Company. 174,585; Oct. 23; Serial No. 180,585; published July 24, 1923.
Shirts, Work and negligee. Wyman, Partridge & Co. 174,880; Oct. 23; Serial No. 181,550; published Aug. 7, 1923.
Sweater coats. Cadet Knitting Company. 174,586; Oct. 23; Serial No. 180,417; published July 24, 1923.
Undershirts, underdrawers, and union suits for men. John K. Stewart & Sons. 174,847; Oct. 23; Serial No. 177,633; published Aug. 7, 1923.
Undershirts, underdrawers, and union suits, Men's. Tryon Mills of Vermont. 174,846; Oct. 23; Serial No. 177,636; published Aug. 7, 1923.
Underwear and hosiery. P. Raguet Fils & J. Vignes. 174,713–4; Oct. 23; Serial Nos. 172,957–8; published May 22, 1923.
Underwear, Women's and children's textile. Ida Munzer, Inc. 174,795; Oct. 23; Serial No. 174,586; published July 24, 1923.
Vests for men. Reiffman-Corn Inc. 174,842; Oct. 23; Serial No. 177,801; published July 31, 1923.

CLASS 40.

Braid, Ric-rac. Barash Bros., Inc. 174,767; Oct. 23; Serial No. 170,209; published July 24, 1923.
Braids. Griffing Manufacturing Co. 174,843; Oct. 23; Serial No. 177,776; published July 31, 1923.
Dress shields. I. B. Kleinert Rubber Company. 174,910; Oct. 23; Serial No. 179,105; published July 31, 1923.

CLASS 42.

Cotton, silk, wool, etc., fabrics. Hecht & Mendes Incorporated. 174,897; Oct. 23; Serial No. 178,560; published July 31, 1923.
Cotton piece goods. Consolidated Textile Corporation. 174,881; Oct. 31; Serial No. 181,558; published Aug. 7, 1923.
Cotton piece goods. Wilton Manufacturing Company. 174,655; Oct. 23; Serial No. 181,507; published Aug. 7, 1923.
Drilling in the piece, Cotton. Minot, Hooper & Co. 174,801; Oct. 23; Serial No. 180,714; published July 31, 1923.
Hair nets. West Electric Hair Curler Company. 174,589; Oct. 23; Serial No. 179,838; published July 24, 1923.
Hair nets, Ladies'. R. Ginsberg & Bro. 174,882; Oct. 23; Serial No. 181,563; published Aug. 7, 1923.
Knitted woolen piece goods. Garfield Worsted Mills. 174,899; Oct. 23; Serial No. 178,604; published July 31, 1923.
Knitted worsted and fiber-silk fabrics. Knitted Textiles Corporation. 174,636; Oct. 23; Serial No. 181,752; published Aug. 7, 1923.
Muslin in the piece. Marshall Field & Company. 174,646; Oct. 23; Serial No. 181,263; published Aug. 7, 1923.
Nankins and tickings in the piece. Freund, Freund & Company. 174,902; Oct. 23; Serial No. 178,835; published July 31, 1923.
Sheeting, Unbleached. Consolidated Textile Corporation. 174,819; Oct. 23; Serial No. 172,031; published July 24, 1923.
Silk piece goods. Empire Silk Company. 174,631; Oct. 23; Serial No. 179,663; published July 31, 1923.
Silk piece goods. Wechsler Barber Silk Company. 174,854; Oct. 23; Serial No. 181,506; published Aug. 7, 1923.
Tablecloths, sheets, pillowcases, napkins. A. S. Herrmann. 174,753; Oct. 23; Serial No. 167,082; published May 22, 1923.
Textile material. Warren Products Company. 174,596; Oct. 23; Serial No. 178,685; published July 24, 1923.
Upholstery, Automobile. A. Boyriven. 174,757; Oct. 23; Serial No. 165,120; published July 24, 1923.
Woolen cloth. Frankenberg, Morgan & Singleton. 174,804; Oct. 23; Serial No. 180,659; published July 31, 1923.
Woolen fabrics in the piece. Continental Mills, Inc. 174,634–5; Oct. 23; Serial Nos. 181,731–2; published Aug. 7, 1923.
Worsted yarn fabric. Botany Worsted Mills. 174,588; Oct. 23; Serial No. 179,989; published July 24, 1923.

CLASS 43.

Yarn, Wool and wool and silk mixture. Marshall Field & Company. 174,645; Oct. 23; Serial No. 181,262; published Aug. 7, 1923.
Yarn, Wool and wool and silk mixture. Marshall Field & Company. 174,647; Oct. 23; Serial No. 181,266; published Aug. 7, 1923.
Yarn, Wool and wool and silk mixture. Marshall Field & Company. 174,648; Oct. 23; Serial No. 181,268; published Aug. 7, 1923.

CLASS 44.

Dental spotlights and lamps for the same. S. S. White Dental Manufacturing Company. 174,610; Oct. 23; Serial No. 180,158; published July 24, 1923.

CLASS 45.

Beverage powder used for making soft drinks. P. S. Hollis. 174,676; Oct. 23; Serial No. 172,380; published July 24, 1923.
Beverages, Maltless chocolate cereal. Vita Food Company. 174,848; Oct. 23; Serial No. 177,529; published July 31, 1923.
Extract for soft drink purposes, Vegetable. L. S. Carney. 174,865; Oct. 23; Serial No. 180,467; published July 31, 1923.
Ginger ale and beverages sold as soft drinks. C. A. Hay. 174,860; Oct. 23; Serial No. 180,428; published July 31, 1923.
Sarsaparilla, ginger ale, cream soda, etc. Wm. Montgomery & Co. 174,892; Oct. 23; Serial No. 179,811; published July 24, 1923.
Sirup and extracts for beverage purposes. Murray Company. 174,637; Oct. 23; Serial No. 180,983; published July 31, 1923

CLASS 46.

Almonds, Salted. California Almond Packers, Inc. 174,630; Oct. 23; Serial No. 179,585; published July 31, 1923.
Bread. T. J. Fitzpatrick. 174,782; Oct. 23; Serial No. 153,036; published July 24, 1923.
Candies. Peerless Confection Company. 174,660; Oct. 23; Serial No. 169,605; published July 24, 1923.
Candy. W. T. Grant Company. 174,769; Oct. 23; Serial No. 170,881; published Aug. 14, 1923.
Candy. E. A. Hoffman. 174,791; Oct. 23; Serial No. 174,393; published July 24, 1923.
Candy. A. L. Miller. 174,626; Oct. 23; Serial No. 179,479; published July 31, 1923.
Candy. Rey-Del-Rey Candy Co. 174,669; Oct. 23; Serial No. 172,044; published July 24, 1923.
Candy and cakes. Busy Bee Candy Company. 174,775; Oct. 23; Serial No. 171,829; published July 31, 1923.
Candy. Universal Theatres Concession Co. 174,908; Oct. 23; Serial No. 179,070; published July 31, 1923.
Candy. Universal Theatres Concession Co. 174,909; Oct. 23; Serial No. 179,072; published July 31, 1923.
Canned crab meat. Taiyo Trading Co. 174,607; Oct. 23; Serial No. 176,580; published July 24, 1923.
Canned fruits. Kings County Packing Co. 174,748; Oct. 23; Serial No. 168,042; published July 24, 1923.
Canned fruits and vegetables. California Canneries Co. 174,894; Oct. 23; Serial No. 178,221; published Aug. 14, 1923.
Canned salmon. A & P Products Corporation. 174,657–8; Oct. 23; Serial No. 179,696–7; published July 31, 1923.
Canned salmon. Anchorage Packing Co. 174,687; Oct. 23; Serial No. 179,918; published July 31, 1923.
Chocolate, Milk and almond. Nissly Swiss Chocolate Company. 174,925; Oct. 23.
Cocoa and chocolate. F. & H. Turner Limited. 174,784; Oct. 23; Serial No. 147,745; published Aug. 15, 1923.
Coffee. Dern Food Company. 174,684; Oct. 23; Serial No. 179,857; published July 31, 1923.
Coffee. C. A. Doscher. 174,924; Oct. 23.
Coffee. H. Jevne Co. 174,726; Oct. 23; Serial No. 162,744; published Aug. 7, 1923.
Coffee. Weideman Company. 174,716; Oct. 23; Serial No. 173,809; published July 24, 1923.
Coffee. Wilson Tea Co. 174,602; Oct. 23; Serial No. 177,885; published July 24, 1923.
Coffee. J. Zinsmeister & Sons, Inc. 174,629; Oct. 23; Serial No. 179,577; published July 31, 1923.

Eggs, Fresh. New Hampshire Co-Operative Marketing Association, Inc. 174,781; Oct. 23; Serial No. 153,101; published July 24, 1923.
Extracts and flavorings for food purposes. Davies, Rose & Co. 174,746; Oct. 23; Serial No. 168,517; published July 24, 1923.
Fruits and canned fruits and vegetables, Dried. O. A. Harlan & Co. 174,625; Oct. 23; Serial No. 179,469; published July 31, 1923.
Fruits, Fresh and deciduous. Orangevale Fruit Growers Exchange. 174,763; Oct. 23; Serial No. 168,782; published Aug. 14, 1923.
Fruits, Fresh deciduous. Colfax Fruit Growers Assn. 174,624; Oct. 23; Serial No. 179,459; published July 31, 1923.
Garlic flavoring compound. B. Heller & Company. 174,715; Oct. 23; Serial No. 172,990; published July 24, 1923.
Hams and bacon, Smoked. Patrick-Young Company. 174,633; Oct. 23; Serial No. 179,677; published July 31, 1923.
Hams, bacons, sausages, etc. Indianapolis Abbatoir Company. 174,858; Oct. 23; Serial No. 176,629; published July 31, 1923.
Ice cream. Geo. K. Brown Co. 174,576; Oct. 23; Serial No. 164,576; published July 17, 1923.
Ice-cream containers, Edible. F. A. Muscente. 174,709; Oct. 23; Serial No. 172,758; published July 24, 1923.
Ice cream, flavored ice, ice-cream bricks, etc. Marchiony Brothers, Inc. 174,918; Oct. 23.
Ice-cream portion. L. A. Sutermeister. 174,712; Oct. 23; Serial No. 172,912; published July 24, 1923.
Lettuce and cantaloupes, Fresh. Sawdey & Hunt. 174,685; Oct. 23; Serial No. 179,884; published July 31, 1923.
Milk, Evaporated. Troy Milk Products Company. 174,916; Oct. 23.
Nut meats, Salted. National Nut Products Co. 174,912; Oct. 23; Serial No. 179,109; published July 31, 1923.
Oil for frying, cooking, etc., Cottonseed. Great Atlantic and Pacific Tea Company. 174,609; Oct. 23; Serial No. 176,106; published July 24, 1923.
Paprika and spices, Spanish. E. Flores. 174,793; Oct. 23; Serial No. 174,567; published July 24, 1923.
Potatoes, Irish. Nix Produce Company. 174,743; Oct. 23; Serial No. 165,300; published June 5, 1923.
Rennet extract and tablets and lactic-acid ferment. Levring & Company. 174,572; Oct. 23; Serial No. 178,450; published July 24, 1923.
Salad dressing. Mrs. C. H. Evans. 174,792; Oct. 23; Serial No. 174,430; published June 19, 1923.
Salad dressing. M. Germany. 174,701; Oct. 23; Serial No. 176,119; published July 24, 1923.
Salad dressing. Preserving Mushroom Co. 174,706; Oct. 23; Serial No. 176,693; published June 19, 1923.
Tea. Kelly, Douglas & Co. 174,732; Oct. 23; Serial No. 159,755; published Mar. 6, 1923.
Tomato paste. Western Sausage & Provision Co. 174,623; Oct. 23; Serial No. 179,442; published July 31, 1923.
Vegetable fats and oils, Edible. G. W. King. 174,579; Oct. 23; Serial No. 164,111; published July 24, 1923.

CLASS 50.

Beehives. G. B. Lewis Company. 174,926; Oct. 23.
Blackboards. G. W. Brooks. 174,740; Oct. 23; Serial No. 149,884; published July 24, 1923.
Buttons, Lapel. Supreme Orient O. O. H. & P. 174,741; Oct. 23; Serial No. 145,596; published July 24, 1923.
Images, bric-a-brac, statuary, etc. E. M. Viquesney. 174,766; Oct. 23; Serial No. 170,228; published July 17, 1923.
Ladders. Goshen Churn & Ladder Company. 174,772; Oct. 23; Serial No. 171,315; published July 24, 1923.
Plaques, Metallic bot-dish. Etched Products Corporation. 174,830; Oct. 23; Serial No. 176,075; published July 24, 1923.
Signs. Brown & Bigelow. 174,557; Oct. 23; Serial No. 160,745; published July 17, 1923.
Tents, tent flies, tarpaulins, etc. Canvas Products Company. 174,720; Oct. 23; Serial No. 174,065; published July 17, 1923.
Tents, tent flies, tarpaulins, etc. Canvas Products Company. 174,721; Oct. 23; Serial No. 174,068; published July 17, 1923.
Waterproofed fabrics in the piece. Nicholson's Raincoat Co. 174,704; Oct. 23; Serial No. 176,497; published July 17, 1923.

ALPHABETICAL LIST OF LABELS.

Lezak Malt Extract. For Malt Extract. E. J. Suehla. 26,501; Oct. 23.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 1.

Hides, skins, tallow, and wool. Wilcox Moffin Limited. 171,113; Oct. 23.
Paper pulp. St. Maurice Paper Company. 164,724; Oct. 23.

CLASS 2.

Music-note-roll ribbons and sheets, Boxes for. Philipps Aktien-Gesellschaft. 150,287; Oct. 23.
Receptacles. J. C. Dowd & Co. 183,469; Oct. 23.

CLASS 6.

Antiseptic, Liquid. S. M. Heldfond. 181,278; Oct. 23.
Blue, Laundry. Cartside's Iron Rust Soap Co. 180,534; Oct. 23.
Carbonizing compound. Pacific By-Products Co. 163,000; Oct. 23.
Cream, vanishing cream, face powder, etc., Facial-pack cold. Crown Chemical Company. 176,669; Oct. 23.
Disinfectants. J. B. Cori. 181,013; Oct. 23.
Electrolytes. Philadelphia Storage Battery Co. 180,942; Oct. 23.
Eye remedy preparation for the treatment of sore, granulated, inflamed, etc., conditions of the eye or lids. R. W. Smith. 179,686; Oct. 23.
Facial pack. Crown Chemical Company. 176,670; Oct. 23.
Formaldehyde. Perth Amboy Chemical Works. 181,410; Oct. 23.
Hair and massage cream, Herb. W. Singh. 145,923; Oct. 23.
Hair tonic, Liquid. G. Della Porta. 182,522; Oct. 23.
Inunction for the treatment of rheumatism. "Smallex." 154,155; Oct. 23.
Medical compound for relief of lung disease, etc. M. Talento. 153,419; Oct. 23.
Medicinal preparation. G. Yeager. 179,762; Oct. 23.
Medicinal preparation for treatment of burns, cuts, etc. Louvon Laboratory. 182,250; Oct. 23.
Medicinal preparation for use in the treatment of malaria and chills. E. M. Murphy. 177,920; Oct. 23.
Medicinal preparations. Red Foot Products Company. 179,742; Oct. 23.
Medicine used for sprains, bruises, bites, etc. C. & A. Drug Co. 167,066; Oct. 23.
Perfume, toilet waters, face powders, etc. E. Beecham. 170,362; Oct. 23.
Perfumes, sachets, toilet waters, etc. John Wanamaker, New York. 182,321; Oct. 23.
Pharmaceutical preparations. S. J. Malloy. 182,544; Oct. 23.
Phloridzin preparation. Schlering & Glatz, Inc. 182,270; Oct. 23.
Preparation for the treatment of digestive disorders. Pepsin Syrup Co. 184,148; Oct. 23.
Preparation for the treatment of piles. S. M. Erbar. 176,734; Oct. 23.
Preparation for treatment of pyorrhea. S. B. Abbott. 182,491; Oct. 23.
Preparation for use in treating diphtheria, etc. L. Frasher. 182,241; Oct. 23.
Rouges, face powders, compact, etc. A. Schneider. 180,895; Oct. 23.
Sulphur. San Joaquin Grocery Co. 182,267; Oct. 23.
Toilet preparation for the skin. Sandra Laboratories, Inc. 182,486; Oct. 23.

CLASS 7.

Cords, twines, ropes, and lines. Highland Cordage Company. 185,583; Oct. 23.
Wire rope. John A. Roebling's Sons Co. 185,380; Oct. 23.

CLASS 8.

Pipes, cigar and cigarette holders, and tobacco pouches. Alfred Dunhill of London, Inc. 179,265; Oct. 23.
Pipes, Tobacco. F. W. Mody. 179,160; Oct. 23.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 12.

Brick, Fire. Evens & Howard Fire Brick Co. 179,995; Oct. 23.
Building stone, limestone, lime, cement, etc. J. J. Briggs. 176,665; Oct. 23.
Cedar products, Tennessee red-. Chickamauga Cedar Co. 183,095; Oct. 23.
Cement, High-temperature. Wahl Refractory Products Co. 183,014; Oct. 23.
Cement products. Paragon Cement Products Co. 180,809; Oct. 23.
Lumber, laths, moldings, sidings. Pelican Bay Lumber Company. 180,079; Oct. 23.
Pipes and conduits, columns, etc. Clay, tile, and terra-cotta. "Prodor" Fabrique de Produits Organiques S. A. 171,954; Oct. 23.
Roofing and building paper, tar in plastic form, waterproofing cement, etc. Denver Gas and Electric Light Company. 119,973; Oct. 23.
Roofing materials, composition flooring, stucco, artificial stone. Mineral Products, Inc. 180,382; Oct. 23.
Roofs, Composition for coating. Paraffine Companies. 161,450; Oct. 23.
Stucco. Granitface Company. 170,281–2; Oct. 23.
Wall board. F. M. Dering. 182,571; Oct. 23.

CLASS 13.

Kitchen utensils. Aluminum Sales Co. 142,379; Oct. 23.

CLASS 14.

Iron and steel. Republic Iron & Steel Company. 183,994; Oct. 23.
Magnesium and magnesium alloys. American Magnesium Corporation. 182,492; Oct. 23.
Metals and alloys, Ingots, castings, etc. Anaconda Copper Mining Company. 165,112; Oct. 23.
Metals, Ferrous. Duncan MacKenzie's Sons Co. 182,352; Oct. 23.

CLASS 15.

Candles. Standard Oil Company. 165,831–3; Oct. 23.
Gasoline. Pan American Petroleum & Transport Company. 184,620; Oct. 23.
Gasoline. Pure Oil Co. 164,003; Oct. 23.
Gasoline, lubricating oils, and greases. C. C. Julian. 184,403–4; Oct. 23.
Kerosene. Associated Oil Company. 177,064; Oct. 23.
Lubricant for machinery. Benzo-Gas Motor Fuel Company. 167,512; Oct. 23.
Oil, Cylinder. Standard Oil Company. 184,309; Oct. 23.
Oil, Lubricating motor. Kentucky Independent Oil Co. 184,285; Oct. 23.
Oils, Petroleum and slab. Northwestern Bakers & Confectioners Co. 181,857; Oct. 23.

CLASS 16.

Carbon black. Standard Carbon Company. 181,917; Oct. 23.
Colors, Water. American Crayon Company. 184,488; Oct. 23.
Floor finishing and maintenance preparations, Liquid. Scofield, Evans and Company. 181,914; Oct. 23.
Lacquers, thinners, and enamels. Egyptian Lacquer Manufacturing Company. 179,187; Oct. 23.
Oil, Animal, fish, and vegetable. Cook & Swan Company. 179,658; Oct. 23.
Paint, lacquer, powder, and casting composition, Metal Metalon Products Corporation. 184,088; Oct. 23.
Paints and anticorrosive solutions. S. A. Day Manufacturing Company. 184,601; Oct. 23.
Paints, mineral spirits. Barber Asphalt Paving Company. 168,349; Oct. 23.
Paints, varnishes, etc. G. A. Combs. 183,554; Oct. 23.
Pigment in oil, Paste. G. C. Scott. 183,995; Oct. 23.
Polish for automobiles, furniture, etc. Red Chief Polish Manufacturing Company. 166,264; Oct. 23.
Polish, Furniture and automobile. A. J. Pesci. 169,776; Oct. 23.
Polishes, Wax. Cantol Wax Company. 184,493; Oct. 23.
Putty, Compound to be used in place of red-lead. Gold Medal Water-Proofing Co. 168,882; Oct. 23.
Varnish. J. C. Dolph Company. 178,716; Oct. 23.

CLASS 17.

Cigars. Judge & Nagle. 182,311; Oct. 23.
Cigars. Lincoln Brothers. 184,342; Oct. 23.
Cigars. M. W. Lloyd. 185,302; Oct. 23.
Tobacco. J. G. Flynt Tobacco Co. 183,563; Oct. 23.
Tobacco. Jaeger Kunnert Co. 185,021; Oct. 23.
Tobacco products. E. A. Kline. 182,591; Oct. 23.

CLASS 19.

Automobile radiators. Opitz Manufacturing Company. 172,291; Oct. 23.
Oil and grease, Casings, coverings, and holders for. Lubri-Gaiters Limited. 182,421; Oct. 23.
Shock absorber, Automobile. Houdaille Company. 161,625–6; Oct. 23.
Tire carriers. Packard Motor Car Company of New York. 182,521; Oct. 23.
Vehicle bodies, Commercial-motor-. U. S. Hame Company. 180,633; Oct. 23.

CLASS 21.

Cookers, Electrical. Apex Electrical Manufacturing Company. 183,430; Oct. 23.
Dishwashing machines, Electrical. Wonder Portable Dishwasher Company. 182,454; Oct. 23.
Electrical apparatus. Electrical Specialty Company. 151,150; Oct. 23.
Flatirons, Electric. Donnelly Machine Co. 182,573; Oct. 23.
Insulated electric wire. Acme Wire Company. 183,241; Oct. 23.
Lighting fixture units, Electrical. Benjamin Electric Manufacturing Company. 166,277; Oct. 23.
Radio amplifier horns. Sheip and Vandegrift, Inc. 181,572; Oct. 23.
Radio and telephone apparatus, Phones for use with. Marinette Electric Corporation. 182,353; Oct. 23.
Radio sets, Individually-packed crystals (galena) for. A. S. Goldstein. 179,466; Oct. 23.
Rheostats. S. R. Hipple. 173,047; Oct. 23.
Rheostats, lamp sockets, electric flatirons, etc., Compression. Electric Regulator Mfg. Corp. 181,439; Oct. 23.
Trolley wires, etc., Ears, clamps, etc., for. Ohio Brass Company. 182,669; Oct. 23.

CLASS 22.

Balls and golf-stick grips, Golf. Marathon Tire & Rubber Company. 149,922; Oct. 23.
Balls, bats, etc. Maurice Rapoport & Co. 183,502; Oct. 23.
Balls, Golf. W. Hill. 175,393; Oct. 23.
Fishing-rod mountings. W. W. Mildrum Jewel Co. 183,480; Oct. 23.
Game similar to tennis, Net. C. T. Shaffer. 183,000; Oct. 23.
Golf clubs. Cuthbert S. Butchart Company. 168,453; Oct. 23.
Golf clubs and golf-club heads. Yardsmore Golf Club Manufacturing Company. 173,268; Oct. 23.
Toy carts, coasters, wheelbarrows, etc. C. E. Pickett. 177,196; Oct. 23.
Toy fixtures of all kinds, Fabric. Schreyer & Co. 179,824; Oct. 23.
Toys. Eleanor P. Vance and Charlotte L. Yale. 182,980. Oct. 23.

CLASS 24.

Clothes washers, Electric. Delphie Specialty Manufacturing Company. 180,469; Oct. 23.

CLASS 26.

Tables and boards, and attachments for same, photo-retouching desks, etc., Drafting. American Drafting Furniture Co. 138,746; Oct. 23.

CLASS 28.

Silver-plated table and hollow-ware, etc. T. N. Benedict Mfg. Co. 167,670; Oct. 23.

CLASS 29.

Mops, Oil. Western Steel & Chemical Co. 182,730; Oct. 23.

CLASS 32.

Shades, Porch. C. W. Warren. 179,906; Oct. 23.

CLASS 33.

Photographic-dry-plate glass and picture glass. Chaufouraux Glass Company. 181,728; Oct. 23.

CLASS 34.

Boilers, Range. Pennsylvania Boiler Co. 182,484; Oct. 23.
Cooking stands, stoves, teakettle-heating outfits, etc. S. Sternau & Co. 151,812; Oct. 23.
Furnaces and furnace castings and coal-feeding stokers, Coal-burning. Murphy Iron Works. 157,380; Oct. 23.
Gas appliance. Johnson Gas Appliance Company. 176,348; Oct. 23.
Stoves, ranges, and furnaces, Gas and coal. Abram Cox Stove Company. 181,733; Oct. 23.
Water heaters. General Water Heater Corporation. 180,857; Oct. 23.

CLASS 35.

Belting, Leather. H. E. Whiting. 179,977; Oct. 23.
Belting, Leather and rubber. E. C. Atkins & Company. 180,576; Oct. 23.
Rubber hose. Voorhees Rubber Mfg. Co. 161,514; Oct. 23.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Tires, Rubber. Master Tire & Rubber Co. 175,726; Oct. 23.

CLASS 37.

Paper and paper towels, Toilet. Albany Perforated Wrapping Paper Co. 184,889; Oct. 23.
Paper, Toilet. Scott Paper Company. 185,623; Oct. 23.
Paper, Writing. Marshall Field & Company. 146,536; Oct. 23.
Pencils, Carpenters'. Townley Metal and Hardware Company. 185,633; Oct. 23.

CLASS 39.

Caps, sweaters, shoes, negligee shirts, and hosiery, Men's. Frankel Bros. 181,984; Oct. 23.
Clothing, Boys'. Wicks & Greenman. 174,351; Oct. 23.
Coats and suits, Ladies'. L. Schwartz & Sons. 181,499; Oct. 23.
Coats, cloaks, wraps, suits, etc. Salt's Textile Manufacturing Company. 165,311; Oct. 23.
Garments, Outer and inner. Lane Bryant. 159,974; Oct. 23.
Garments, Outer and inner. Lane Bryant. 160,356; Oct. 23.
Hosiery. Shurfit Hosiery Company. 180,195; Oct. 23.
Hosiery. Young Inventions Inc. 167,750; Oct. 23.
Hosiery, knitted underwear, and gloves. John H. Hibben Dry Goods Co. 181,395; Oct. 23.
Pyjamas. Friedman & Friedman. 159,354; Oct. 23.
Shirts, Infants'. Lumb Knitting Company. 156,496; Oct. 23.
Shirts, Work and negligee. M. Fine & Sons. 182,656; Oct. 23.
Sweaters, union suits, shirts, etc. International Dry Goods Co. 182,753; Oct. 23.

CLASS 42.

Chambray, cheviot, and denims in the piece. Stonewall Cotton Mills. 183,415; Oct. 23.
Cotton fabrics. Hill Manufacturing Co. 182,659; Oct. 23.
Cotton piece goods. Burnham-Munger-Root Dry Goods Company. 183,358; Oct. 23.
Cotton piece goods. Hill Manufacturing Co. 182,658; Oct. 23.
Cotton piece goods. George Willcomb Company. 167,282; Oct. 23.
Fustian. J. H. Lane & Co. 168,319; Oct. 23.
Hair nets. The Emporium. 184,441; Oct. 23.
Linen goods in the piece, handkerchiefs, etc. Ireland Bros. Inc. 161,256; Oct. 23.
Muslin in the piece. Marshall Field & Company. 181,265; Oct. 23.
Toweling, Terry. Holt Manufacturing Co. 184,490; Oct. 23.

CLASS 43.

Yarns and threads. Bernhard Ulmann Co. 184,698; Oct. 23.

CLASS 44.

Arch supports, Foot-. F. Pfeiffer. 179,819; Oct. 23.
Belt for prevention of nausea. Neptune Products Company. 185,257; Oct. 23.
Cotton, Absorbent. Frank B. Graves Co. 179,367; Oct. 23.
Dental golds, solders, plates, disks, etc. J. F. Jelenko & Co. 185,593; Oct. 23.
Hypodermic needles. A. Bandman. 184,890; Oct. 23.
Lingual bars. J. Stern & Co. 185,387; Oct. 23.
Massage appliance. J. O. Linden. 184,251; Oct. 23.
Medicinal vaporizing device. P. Billard. 167,594; Oct. 23.
Napkins, Sanitary. American Wholesale Corporation (Baltimore Bargain House). 183,954; Oct. 23.

CLASS 46.

Butter. Kinney Brothers. 103,894; Oct. 23.
Candy. Webers. 159,826; Oct. 23.
Canned fish, preserved fruits, and vegetables. John Crampton & Co. 183,255; Oct. 23.
Canned fruits. G. H. Corse, jr. 184,426; Oct. 23.
Canned fruits. Olympia Canning Company. 178,271; Oct. 23.
Canned tomatoes, corn, peas, and beans. Joseph Campbell Company. 172,370; Oct. 23.
Canned vegetables. Baxter Bros. Co. 182,559; Oct. 23.
Cocoa. Schweitzer "Cocoatina" Co. 168,622; Oct. 23.
Coffee. Betterton-Rupert Coffee Co. 179,771; Oct. 23.
Feed, Cow, horse, mule, and hen. P. W. Owen. 180,489; Oct. 23.
Flavoring extract for food purposes. Florasynth Laboratories. 179,192; Oct. 23.
Fruits, Fresh citrous. San Dimas Lemon Association. 184,300; Oct. 23.
Ice cream. Purity Ice Cream Company. 170,543; Oct. 23.
Macaroni products. Keystone Macaroni Manufacturing Company. 181,130; Oct. 23.
Oil, Olive. J. H. Savvas. 182,011; Oct. 23.
Pears, Fresh. N. E. Dean. 184,602; Oct. 23.
Salad dressings. M. R. Sanborn. 162,070; Oct. 23.
Tamales and enchiladas, Fresh and canned. F. W. Griebnow. 162,403; Oct. 23.

CLASS 48.

Sirup, Malt. J. D. Childs. 180,419; Oct. 23.

CLASS 50.

Bottles and jars, Metal caps for. Closure Service Corporation. 181,248; Oct. 23.
Metal caps and closures. American Metal Cap Company. 181,628; Oct. 23.
Rubberized cloth. Meade Rubber Company. 174,173; Oct. 23.
Theaters in the nature of an advertising device, Miniature. Animated Miniature Theatre Corp. 175,830; Oct. 23.
Wafers to be used for lining bakers' ware, etc. Johann Schmidt Oblatenfabrik. 165,572; Oct. 23.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 23D DAY OF OCTOBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Acme Electrotype Company. (See Herr, Henry A., assignor.)
Acme Knitting Machine & Needle Company. (See Stewart, Albert E., assignor.)
Adams, Clarence F., Dayton, Ohio. Electrolytic gas cell. 1,471,641; Oct. 23.
Adams, John Q., Muskegon, Mich. Device for facing automobile valve seats and the like. 1,471,471; Oct. 23.
Addison, John. (See Eckart, George F., assignor.)
Addiss, Nathaniel A. (See Spangler, John H., assignor.)
Agostini, Louis, Paris, France. Method and means for squeezing tubes of paper containing hair curlers and employed in the art of undulation. 1,471,582; Oct. 23.
Ahlburg, Frank, assignor to Electric Fruit Marking Co., San Francisco, Calif. Fruit-marking machine. 1,471,440; Oct. 23.
Aland, Richard C., assignor of one-half to H. H. Knepper, Detroit, Mich. Oil-refining device. 1,471,374; Oct. 23.
Alchemic Gold Company. (See McElroy, W. J., and Clarke, assignors.)
Alliance Machine Company, The. (See Clark, Harold W., assignor.)
Almy, Charles A. (See Light, Henry B., assignor.)
American Can Company. (See Miller, Henry, assignor.)
American Fabrics Company, The. (See Page, Samuel H., assignor.)
American Fabrics Company, The. (See Philips, Hans A., assignor.)
American Optical Company. (See Pellow, Arthur, assignor.)
American Optical Company. (See Sangren, Harry A., assignor.)
American Optical Company. (See Tillyer, E. D., and Parsons, assignors.)
American Telephone and Telegraph Company. (See Clark, Alva B., assignor.)
American Telephone and Telegraph Company. (See Dietze, Eginhard, assignor.)
American Telephone and Telegraph Company. (See Martin, William H., assignor.)
Andersen, Anders S., West Palm Beach, Fla. Cable-lubricating device. 1,471,583; Oct. 23.
Anderson, Carl G., Boston, assignor to J. E. Swanson, Jamaica Plain, Mass. Making dies. 1,471,472; Oct. 23.
Anderson, Newton M., assignor, by mesne assignments, to T. Bemis, sr., T. Bemis, jr., and R. Bemis, trustees of Anderson Steam Vulcanizer Company, Indianapolis, Ind. Vulcanizer. Re15,701; Oct. 23.
Andrade, Cipriano, jr., New York, N. Y. Differential. 1,471,642; Oct. 23.
Antisell, Frank L., Perth Amboy, N. J. Pump or prime mover. 1,471,320; Oct. 23.
Arbes, Peter J., Ada, Minn. Pants presser. 1,471,676; Oct. 23.
Arensberg, Charles F. C., et al. (See Vogt, Clarence C., assignor.)
Arentz, Hjalmar, Hellerup, Denmark. Machine for the cleansing of the bottoms and sides of floating ships. 1,471,935; Oct. 23.
Arieskie, William S., Pittston, Pa. Air brake. 1,471,815; Oct. 23.
Art Novelty Manufacturing Company. (See Eyman, Frank H., assignor.)
Aste, Anthony L., Brooklyn, N. Y. Device for use in shining shoes. 1,471,816; Oct. 23.
Atkins, Cora P., West Hartford, Conn. Parcel carrier. 1,471,817; Oct. 23.
Atkinson, Christopher C., Hawkinsville, Ga. Railway-crossing signal. 1,471,877; Oct. 23.
Atwater Kent Manufacturing Company. (See Kingsford, Russell T., assignor.)
Atwood, Leonard, Boston, Mass. Internal-combustion engine. 1,471,321; Oct. 23.
Austin, Robert, Baltimore, Md. Identification clip for phonograph records. 1,471,716; Oct. 23.
Autokal Syndicate Limited. (See Russell-Clarke, Edward, assignor.)
Autowhirl Corporation. (See Lancaster, S. C., and Hjermstad, assignors.)
Axlirod, Meyer, assignor to Axlirod Power Transmission Company, Philadelphia, Pa. Friction-drive controlling mechanism. 1,471,717; Oct. 23.
Axlirod Power Transmission Company. (See Axlirod, Meyer, assignor.)
Axtell, Jay M., Fort Worth, Tex. Self-lubricating pitman rod. 1,471,818; Oct. 23.
Badowski, Alfred, Charleston, W. Va. Pressure gauges for pneumatic tires. 1,471,323; Oct. 23.
Badowski, Alfred, Charleston, W. Va., assignor, by mesne assignments, to Tiregage Valve Corporation, Charleston, W. Va. Pressure gauge for tires. 1,471,322; Oct. 23.
Badowski, Alfred, Charleston, W. Va., assignor to Tirometer Valve Corporation of America, Charleston, W. Va. Tire-stem pressure gauge. 1,471,324; Oct. 23.
Badowski, Alfred, Charleston, W. Va., assignor to Tirometer Valve Corporation of America, Charleston, W. Va. Tire-stem pressure gauge. 1,471,325; Oct. 23.
Bailey, John M., Pittsburgh, Pa. Spectacles. 1,471,996; Oct. 23.
Baillot, Georges, Embourg, near Liege, Belgium. Four-cylinder compound locomotive. 1,471,677; Oct. 23.
Baisi, Joseph, assignor of one-half to A. Melli, New York, N. Y. Drive and coaster brake construction. 1,471,538; Oct. 23.
Baker, John H., York, Pa. Tobacco cutting and separating machine. 1,471,936; Oct. 23.
Baker, Linnaeus E., assignor to Wayne Tank & Pump Company, Fort Wayne, Ind. Stop mechanism. 1,471,995; Oct. 23.
Ball, Frederic J., Brooklyn, N. Y. Mixer. 1,471,643; Oct. 23.
Ballantine, Norman S. (See Lamb, William A., assignor.)
Ballinger, Albert E. (See Ballinger, George W. and A. E.)
Ballinger, George W., and A. E., Upland, Ind. Table. 1,471,678; Oct. 23.
Bandman, Albert, New York, N. Y. Syringe. 1,471,644; Oct. 23.
Barker, Percy E., assignor to The Van Dorn Iron Works Company, Cleveland, Ohio. Dump truck. 1,471,511; Oct. 23.
Barnes, Samuel C. (See Nalley, William L., assignor.)
Barr, Edward B., assignor of one-half to G. T. Warhurst, Newton, Kans. Locomotive exhaust nozzle. 1,471,584; Oct. 23.
Bartlett, Kent W., Hammond, Ind. Apparatus for softening water. 1,471,718; Oct. 23.
Bassick Company, The. (See Herold, Walter F., assignor.)
Bassick Company The. (See Moore, Raymond G., assignor.)
Bauschard, John H., Erie, Pa. Catch basin. 1,471,819; Oct. 23.
Bayot, Jose M., Urbana, Ill. Intermittent circuit-closing switch. 1,471,512; Oct. 23.
Beach, Chester H., Racine, Wis., assignor to Wisconsin Electric Company. Valve grinder. 1,471,769; Oct. 23.
Beadle, Ella M., Lyons, N. Y. Combined hemmer and tucker. 1,471,719; Oct. 23.
Beam, Edwin C., Newark, N. J., assignor to Motor Starter & Air Pump Company. Compressor. 1,471,820; Oct. 23.
Beckwith, Louis I. (See Towle, James M., assignor.)
Bell, Harvey W., Ardsley-on-Hudson, and H. L. Hoyt, jr., Great Neck, N. Y., assignors to The Beloyt Corporation, Dover, Del. Spring shackle. 1,471,473; Oct. 23.
Bell, Louis, West Newton, assignor to E. N. Goding, trustee, Newton, Mass. Dual supplementing headlight. 1,471,679; Oct. 23.
Beilliss and Morcom, Limited. (See Holliday, Peter A., assignor.)
Beloyt Corporation, The. (See Bell, H. W., and Hoyt, assignor.)
Bemis, Ruth, et al., trustees. (See Anderson, Newton M., assignor.)
Bemis, Thomas, jr., et al. trustees. (See Anderson, Newton M., assignor.)
Berg, Oliver J., Oak Park, Ill. Dispensing device for liquids. 1471,441; Oct. 23.
Bernau, Frederick W., assignor to Ellis Adding Typewriter Company, Newark, N. J. Locking means for accumulator controls. 1,471,770; Oct. 23.
Bernstein, Maurice, San Francisco, Calif. Reenforced plastic container. 1,471,680; Oct. 23.
Bessette, Francis P., Wichita, Kans. Screen-door insect brush and destroyer. 1,471,585; Oct. 23.
Besta, Adalbert, and H. Lent, Duisburg-Ruhrort, Germany. Method of and system for utilizing heat. 1,471,821; Oct. 23.

Bethlehem Foundry & Machine Company. (See Lehman, John G., assignor.)
Betz, Charles, St. Louis, Mo. Wall-board seam and fastening strip. 1,471,442; Oct. 23.
Bickell, George H., Brookline, assignor to The Holtzer-Cabot Electric Company, Roxbury, Mass. Electric gong. 1,471,878; Oct. 23.
Billings, Cecil M., Brooklyn, N. Y., assignor to Delmore Manufacturing Co. Inc., New York, N. Y. Motor vehicle. 1,471,879; Oct. 23.
Bingham, Joseph Lurgan, assignor to W. Heney, Belfast, Ireland. Sewing machine. 1,471,720; Oct. 23.
Bishop & Babcock Company. (See Patton, Hal T., assignor.)
Blacet, Duke N. A. (See Griffiths, F. J., and Blacet.)
Blocker, Preston B., Silver City, N. Mex. Tire chain. 1,471,586; Oct. 23.
Boggio, Guisto, Royalton, Ill. Bottle closure. 1,471,937; Oct. 23.
Bonham, Charles, San Francisco, Calif. Sash-cord fastener. 1,471,938; Oct. 23.
Borromite Company of America, The. (See Lee, Yong K., assignor.)
Bossi, Enea, assignor to Self Feeding Vaporizer Corporation, New York, N. Y. Intake manifold for internal-combustion engines. 1,471,822; Oct. 23.
Boswell, William C., Baltimore, Md. Electric sadiron. 1,471,823; Oct. 23.
Bourlier, Emile R., Louisville, Ky. Metal front for automobile and truck bodies. 1,471,771; Oct. 23.
Bourn, Stephen W., Providence, R. I. Forming outsole for rubber footwear. 1,471,587; Oct. 23.
Bourn, Stephen W., Providence, R. I. Machine for making outsoles for rubber footwear. 1,471,588; Oct. 23.
Bové, Ramon, New York, N. Y. Hair-waving appliance. 1,471,880; Oct. 23.
Bové, Ramon, New York, N. Y. Hair-waving appliance. 1,471,881; Oct. 23.
Bowe, Charles F., assignor of forty-eight one-hundredths to J. M. Wilson, Canton, Ohio. Rail chair. 1,471,772; Oct. 23.
Bowen, Clinton A., assignor to Corning Glass Works, Corning, N. Y. Glass-melting pot. 1,471,824; Oct. 23.
Bowen, Herbert N., Lakeview, Minn. Screen holder. 1,471,773; Oct. 23.
Bowman, Glenn F., et al. (See Vogt, Clarence C., assignor.)
Bowman, William S., Orangeville, Pa. Game apparatus. 1,471,375; Oct. 23.
Bowser, James G., Columbus, Kans. Constructing mats. 1,471,376; Oct. 23.
Boyer, Charles A., Winona Lake, Ind. Fishing reel. 1,471,377; Oct. 23.
Bracht, George H., Cleveland, Ohio. Interchangeable steel-type holder. 1,471,443; Oct. 23.
Bradley, Richard S., Los Angeles, Calif. Reflector and lamp support. 1,471,939; Oct. 23.
Brandt, James J. C., Sydney, New South Wales, Australia. Apparatus for firing furnaces with powdered fuel. 1,471,681; Oct. 23.
Brassington, William B., Port Richmond, N. Y. Valve. 1,471,444; Oct. 23.
Breese, Charles F., Dayton, Ohio. Field engine starter. 1,471,379; Oct. 23.
Briddell, Charles D., Crisfield, Md. Producing oyster tongs. 1,471,378; Oct. 23.
Bried, Julien A., Oakland, Calif. Friction-clutch mechanism. 1,471,721; Oct. 23.
Bright, Fred W., Murfreesboro, Tenn. Ensilage follower. 1,471,940; Oct. 23.
Brock, Nicholas V. D. (See Irwin, C. W., and Brock.)
Bronnert, Emile, Mulhouse, France. Manufacture of viscose silk. 1,471,513; Oct. 23.
Brooks, George S., Gary, Ind. Retort volatilization of zinc. 1,471,774; Oct. 23.
Brooks, Herbert C., Clapham, London, assignor of one-half to H. F. Warbey, Highfield, Esher, Surrey, England. Machine for applying adhesive medium to envelopes, wrappers, and the like. 1,471,722; Oct. 23.
Brooks, Winfred M., South Orange, N. J. Sealing means. 1,471,445; Oct. 23.
Brower, Charles H., Philadelphia, Pa. Truck. 1,471,446; Oct. 23.
Brown, Claude R., Santa Ana, Calif. Releasing device for well tools. 1,471,775; Oct. 23.
Brunhoeber, George H., assignor of one-half to J. Fletcher, Ponca City, Okla. Water trap. 1,471,941; Oct. 23.
Bryden-Neversilp Company. (See Paff, John, assignor.)
Buckeye Twist Drill Company, The. (See Mulac, Anthony A., assignor.)
Buckley, Lorenzo C. (See Mason, A. G., and Buckley.)
Burchett, Roy, Selling, Okla. Vacuum governor. 1,471,380; Oct. 23.
Burger, Joseph. (See Evans, Sylvester, assignor.)
Burgess Battery Company. (See Schulte, Walter B., assignor.)
Burghart, Thomas N., Philadelphia, Pa. Locking device for automobiles. 1,471,447; Oct. 23.
Burnet, Carter B., South Norfolk, Va., assignor of one-half to W. W. Slaymaker, Philadelphia, Pa. Portable electric lantern. 1,471,682; Oct. 23.
Burns, Bradford W., et al. (See Diehl, George M., assignor.)
Burroughs, Charles W., Montreal, Quebec, Canada. Gripper. 1,471,448; Oct. 23.
Burton Page Company, The. (See Trimand, Peter A., assignor.)
Burtz, William E., Columbia, Pa. Mop head. 1,471,942; Oct. 23.
Butler, Benjamin and W., Dukinfield, England. Stop-cock or valve. 1,471,825; Oct. 23.
Butler, Wilfred. (See Butler, Benjamin and W.)
Bzowy, Mike, assignor of one-half to J. Panocha, Stanley, Wis. Shoe-cleaning device. 1,471,826; Oct. 23.
Cahill, Moses M., Litchfield, Conn. Rapid milk cooler. 1,471,449; Oct. 23.
Caldwell, Henry C., Buffalo, N. Y. Mixer for gas burners. 1,471,381; Oct. 23.
California Almond Growers Exchange. (See Fowler, A. M., and Caulfeild, assignors.)
Carlson, Carl E., Brooklyn, N. Y. Demountable brake band. 1,471,882; Oct. 23.
Carlson, Charles T., Canton, Ohio. Utensil hinge. 1,471,776; Oct. 23.
Carman, James R., Beaver Dam, Ky. Nailless horseshoe. 1,471,827; Oct. 23.
Carr Fastener Company. (See Carr, Fred S., assignor.)
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. 1,471,828; Oct. 23.
Carson, Henry A., St. Joseph, Mo. Power transmission. 1,471,589; Oct. 23.
Carter, Samuel W., Washington, D. C. Propeller. 1,471,590; Oct. 23.
Carver Cotton Gin Company. (See McLean, Robert W., assignor.)
Caskey-Dupree Manufacturing Company, The. (See Kunkle, Bayard D., assignor.)
Caulfeild, William H. (See Fowler, A. M., and Caulfeild.)
Cavanaugh, Andrew F., Dayton, Ohio. Automobile lock. 1,471,382; Oct. 23.
Chadwick, Lee S., Shaker Heights, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Automatically-adjusted wick stop for oil burners. 1,471,539; Oct. 23.
Chadwick, Lee S., Shaker Heights, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Automatic wick stop for oil burners. 1,471,540; Oct. 23.
Chadwick, Lee S., Shaker Heights, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Automatic wick adjustment for liquid-fuel burners. 1,471,541; Oct. 23.
Chadwick, Lee S., Shaker Heights, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Automatic wick stop. 1,471,542; Oct. 23.
Chadwick, Lee S., Shaker Heights, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Wick-stop mechanism for oil burners. 1,471,543; Oct. 23.
Chamberlain, Walter W., Watertown, N. Y. Nonskidding device. 1,471,544; Oct. 23.
Chambers, Marcus S., London, England. Puzzle. 1,471,943; Oct. 23.
Chance, Thomas M., Philadelphia, Pa. Agglomerating or cementing granular materials. 1,471,645; Oct. 23.
Chance, Thomas M., Philadelphia, Pa. Agglomerating or cementing granular material. 1,471,646; Oct. 23.
Chance, Thomas M., Philadelphia, Pa. Composition of matter produced by agglomerating or cementing granular materials. 1,471,647; Oct. 23.
Chandler, Homer P., assignor to The Ohio Brass Company, Mansfield, Ohio. Conductor support. 1,471,545; Oct. 23.
Chandler, Homer P., assignor to The Ohio Brass Company, Mansfield, Ohio. Conductor support. 1,471,546; Oct. 23.
Chapman, James, Auckland Park, Johannesburg, Transvaal, and W. F. R. Reynolds, Johannesburg, Transvaal, South Africa. Sluice valve. 1,471,944; Oct. 23.
Charles, Harold, and I. A. Jacobs, Leederville, near Perth, Western Australia, Australia. Machine for dispensing beverages from the bulk. 1,471,945; Oct. 23.
Cheshro, William C., St. Joseph, Mo. Automatic impression tripper for printing presses. 1,471,946; Oct. 23.
Chevalier, John F. (See Griswold, Albert A., assignor.)
Chilowsky, Constantin, and P. Langevin, Paris, France. Production of submarine signals and the location of submarine objects. 1,471,547; Oct. 23.
Clark, Alva B., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Method of and means for measuring unbalance. 1,471,383; Oct. 23.
Clark, Chester A., Oakland, Calif. Tire changer. 1,471,591; Oct. 23.
Clark, Harold W., assignor to The Alliance Machine Company, Alliance, Ohio. Brake. 1,471,997; Oct. 23.
Clarke, Ira M., assignor to New Martinsville Glass Mfg. Co., New Martinsville, W. Va. Ash tray. Des. 63,152; Oct. 23.
Clarke, John. (See McElroy, W. J., and Clarke.)
Claussen, Martin, San Francisco, Calif. Electric lamp. 1,471,384; Oct. 23.
Clement, Charles G., assignor to Highway Trailer Company, Edgerton, Wis. Extensible trailer. 1,471,549; Oct. 23.
Clement, Charles G., assignor to Highway Trailer Company, Edgerton, Wis. Two-wheeled trailer. 1,471,548; Oct. 23.

Cleveland Metal Products Company, The. (See Chadwick, Lee S., assignor.)
Clulee, Stephen J., Attleboro, Mass. Temple-bar construction. 1,472,014; Oct. 23.
Coberly, Clarence J., Los Angeles, Calif. Motion-picture film. 1,471,592; Oct. 23.
Coburn, Richard G., Chicago, Ill. Sand-blast nozzle. 1,472,015; Oct. 23.
Cockbill, Frederick C., Kings Heath, Birmingham, and J. H. V. Grimes, Moseley, Birmingham, England. Caking device. 1,472,022; Oct. 23.
Cohen, Anchel, Pittsburgh, Pa. Sanitary garbage receptacle. 1,471,648; Oct. 23.
Collier, William H., Painesville, Ohio. Mechanism for synchronizing mechanical movements. 1,471,450; Oct. 23.
Conlan, David, jr., Brooklyn, N. Y. Binder. 1,471,550; Oct. 23.
Converse, Francis B., assignor to The Norwalk Tire and Rubber Company, Norwalk, Conn. Tire tread and applying the same. 1,471,829; Oct. 23.
Cooley, Frank N. and G. R., Seattle, Wash.; said G. R. Cooley assignor to said Frank N. Cooley. Pneumatic-tire-inflating apparatus. 1,471,777; Oct. 23.
Cooley, George R. (See Cooley, Frank N. and G. R.)
Coolidge, George B., Rockford, Ill. Automatic steering attachment for motor vehicles. 1,471,883; Oct. 23.
Cope, Frank T., Alliance, Ohio. Combined light and horn switch. 1,471,778; Oct. 23.
Copland, James P., Hudson, Ohio. Welding electrode. 1,471,326; Oct. 23.
Corey, Melvin M., Sweetgrass, Mont. Gate-closing device. 1,471,830; Oct. 23.
Corn Products Refining Company. (See Newkirk, William B., assignor.)
Cornelius, Clarence, Seattle, Wash. Shingling seat or bracket. 1,471,947; Oct. 23.
Corning Glass Works. (See Bowen, Clinton A., assignor.)
Corning Glass Works. (See Gage, Henry P., assignor.)
Corning Glass Works. (See Pascucci, Emilio, assignor.)
Corset, Lucien A. M., Paris, France. Indicator with mechanical transmission to a distance. 1,471,831; Oct. 23.
Courtney, Thomas L., et al. (See McNab, Norman S., assignor.)
Cowlishaw, Walker & Company (1920) Limited. (See Moore, Matthew S., assignor.)
Cox, Jesse C., and J. W. McClung, Anderson, Ind. Thumb protector. 1,471,948; Oct. 23.
Crane, Leslie, assignor of one-half to F. R. Patch Manufacturing Company, Rutland, Vt. Suspension jack for gang saws. 1,471,650; Oct. 23.
Crane, Leslie, assignor of one-half to F. R. Patch Manufacturing Company, Rutland, Vt. Sway-bar bearing for gang saws. 1,471,649; Oct. 23.
Crescent Machine Company, The. (See Wilderson, Clinton G., assignor.)
Crimp, Alfred A., Chicago, Ill. Socket wrench. 1,471,451; Oct. 23.
Critchley, Harold S. B., London, England. Suitcase. 1,471,385; Oct. 23.
Crockett, David B., Charleston, W. Va. Device for stopping leaks in pipes. 1,471,386; Oct. 23.
Crompton & Knowles Loom Works. (See Whitmore, Charles M., assignor.)
Crozier, Elmer L., Dayton, Ohio. Aeroplane. 1,471,327; Oct. 23.
Cummings, Alfred H. (See Fish, G. C., and Cummings.)
Curley, Robert S. (See Whittier, J. K., and Curley.)
Curtis, Francis J., Sharon, Pa. Tire-cutting implement. 1,471,686; Oct. 23.
Dahlstrom, John, Pittsburgh, Pa. Shock absorber. 1,471,474; Oct. 23.
Daniel, Joseph S. (See Willis, M. C., and Daniel.)
Dasco Import Co. Inc. (See Oppenheim, Julius, assignor.)
Daubert, Harry S., Amarillo, Tex. Railway equipment. 1,471,452; Oct. 23.
Davis, Elmer A., Chicago, Ill. Clamping and supporting tool. 1,471,593; Oct. 23.
Davis, Harvey N., Cambridge, Mass., assignor to Research Corporation, New York, N. Y. Separating the constituents of air and other gaseous mixtures. 1,471,832; Oct. 23.
Davis, Harvey N., Cambridge, Mass., assignor to Research Corporation, New York, N. Y. Apparatus for rectification of air. 1,471,833; Oct. 23.
Deckop, Charles J. (See Karge, Maxwell R., assignor.)
Defibaugh, Mark A., assignor to H. B. Sherman Manufacturing Co., Battle Creek, Mich. Electric-motor terminal connection. 1,471,834; Oct. 23.
Defrancisco, Sebastiano. (See Martire, V., Defrancisco, Mesaino, and Lombardo.)
De Grasse, George F., Brooklyn, N. Y. Clothes drier. 1,471,328; Oct. 23.
Delmore Manufacturing Co. Inc. (See Billings, Cecil M., assignor.)
Dement, Robert R., Hamilton, Ohio. Ink composition. 1,471,884; Oct. 23.
Demuth, Alfred M., Chicago, Ill. Receptacle for removing liquids from vessels. 1,471,475; Oct. 23.
Demuth, Alfred M., Chicago, Ill. Receptacle for removing liquids from vessels. 1,471,476; Oct. 23.
Dental Products Company. (See Shearer, William L., assignor.)
Dessau, Morland M., London, England. Floating toy. 1,471,885; Oct. 23.
Dessau, Morland M., London, England. Toy balloon. 1,471,886; Oct. 23.
Det Norske Aktieselskab Elektrokemisk Industri. (See Sem, Mathias O., assignor.)
Dettra, John C., Oakes, Pa. Hedge trimmer. 1,471,453; Oct. 23.
Detwiler, Herbert E., York, Pa. Antiskid-chain hook. 1,471,835; Oct. 23.
De Vaney, William H., Toledo, Ohio. Molding machine. 1,471,651; Oct. 23.
Diamond, Israel, Washington, D. C. Mold for poured structures. 1,471,387; Oct. 23.
Diederich, Paul E., assignor to Motor Products Corporation, Detroit, Mich. Visor attachment for windshields. 1,471,723; Oct. 23.
Diehl, George M., Wabash, Ind., assignor to W. A. Reed and B. W. Burns, Chicago, Ill. Coin-controlled calendar. 1,471,836; Oct. 23.
Dies, Charles A., Chicago, Ill. Adjustable wrench. 1,471,837; Oct. 23.
Diescher, S., & Sons. (See Diescher, Samuel E., assignor.)
Diescher, Samuel E., Wilkinsburg, Pa., assignor to S. Diescher & Sons. Boiler installation. 1,470,030; Oct. 23.
Dietze, Eginhard, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Signaling circuit. 1,471,388; Oct. 23.
Dillehunt, Samuel B. (See Gobberdiel, Peter P., assignor.)
Dinsmoor, Paul A. (See Saylor, H. A., Peck, and Dinsmoor.)
Di Trapani, Salvatore, and J. Fecarotta, Detroit, Mich. Coffeepot. 1,471,389; Oct. 23.
Dixon, Joseph, Crucible Company. (See Mix, Frederick H., assignor.)
Dolan, Edward J., and P. Tatore, New York, N. Y. Apparatus for raising and lowering materials. 1,471,454; Oct. 23.
Doranski, Julius T., Chicago, Ill. Vehicle tire. 1,471,949; Oct. 23.
Dorney, William, and M. Quint, Hays, Kans. Excavator. 1,471,887; Oct. 23.
Downey, James. (See Downey, Millard J., M. M., and J.)
Downey, Maurice M. (See Downey, Millard J., M. M., and J.)
Downey, Millard J., M. M., and J., Chicago, Ill. Spark plug. 1,471,390; Oct. 23.
Dreuning, Benjamin F., Cumberland, Md. Railway switch-point clamp. 1,471,950; Oct. 23.
Dressler, Charles E., New York, N. Y. Polygraph. 1,472,016; Oct. 23.
Driganti, Charles J., Cambridge, assignor of one-half to C. Gardini, Somerville, Mass. Valve-grinding apparatus. 1,471,779; Oct. 23.
Driscoll, Daniel W., New York, N. Y., assignor to Driscoll Patents Company, Wilmington, Del. Variable-speed transmissions. 1,471,998; Oct. 23.
Driscoll Patents Company. (See Driscoll, Daniel W., assignor.)
Duffy, Marie B., Toledo, Ohio. Window guard. 1,471,477; Oct. 23.
Du Nah, George W., Pasadena, Calif. Glove-drying machine. 1,471,652; Oct. 23.
Duncan, Arthur L., assignor of one-third to E. H. Duncan and one-third to C. E. Forry, Oakland, Calif. Apparatus for preparing fruit for canning. 1,471,838; Oct. 23.
Duncan, E. H., et al. (See Duncan, Arthur L., assignor.)
Dunlop, Robert R., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Rheostat. 1,471,391; Oct. 23.
Dunnebacke, Julius N. (See Schutt, Henry A., and Dunnebacke.)
Du Pont, E. I., de Nemours & Company. (See Mansa, Walter A., assignor.)
Dwight & Lloyd Sintering Company. (See Lloyd, Richard L., assignor.)
Dyer, William H., Douglas Township, Montcalm County, assignor of one-half to E. Raymond, Entrican, Mich. Automobile timer. 1,471,999; Oct. 23.
Eagle, Frederick, assignor to Empire Biscuit Co., Brooklyn, N. Y. Display cover for containers. 1,471,781; Oct. 23.
Eastman Kodak Company. (See Sentou, C. A., and Jacquet, assignors.)
Eckart, George F., Covington, Ky., assignor of one-half to J. Addison, Chicago, Ill. Rotary brush. 1,471,782; Oct. 23.
Edlich, Paul, Delawanna, N. J. Process and device for finishing textile fabrics and the like. 1,471,551; Oct. 23.
Edmands, Walter S., Boston, Mass. Surgical baker. 1,471,329; Oct. 23.
Edwards, Richard C., Oakland, Calif. Releasing device for lifeboats and other similar craft. 1,471,552; Oct. 23.

Elder, Matthew L., Pittsfield, Mass., assignor to General Electric Company. Radiating casing for electrical apparatus. 1,471,388; Oct. 23.
Electric Auto-Lite Corporation. (See Post, Truman W., assignor.)
Electric Auto-Lite Corporation. (See Saxon, Herman R., assignor.)
Electric Fruit Marking Co. (See Ahlburg, Frank, assignor.)
Electric Welding Machine Company. (See Lorenz, Samuel E., assignor.)
Elliott, Alexander T., Los Angeles, Calif. Extraction of metals from ores. 1,471,514; Oct. 23.
Ellis Adding Typewriter Company. (See Bernau, Frederick W., assignor.)
Emery, Frank M., Kennebunk, assignor to Gove Motor Company, Biddeford, Me. Internal-combustion engine. 1,471,783; Oct. 23.
Emmons, Harold H. (See Sweet, Ernest E., assignor.)
Empire Biscuit Co. (See Eagle, Frederick, assignor.)
Engelhard, Frank, deceased, F. H. Engelhard, and W. A. Engelhard, Springfield, Mass.; said F. H. Engelhard and W. A. Engelhard, executors. Hot-water boiler. 1,471,784; Oct. 23.
Engelhard, Frederick H. (See Engelhard, Frank, F. H., and W. A.)
Engelhard, William A. (See Engelhard, Frank, F. H., and W. A.)
Ensten, Louis H., Cleveland, Ohio. Headwear. 1,471,724; Oct. 23.
Epling, Giles T., Welch, W. Va. Mouth adjuster. 1,471,839; Oct. 23.
Erickvam, Ole, Prairie Farm, Wis. Safety knife for trimming shoe soles. 1,471,889; Oct. 23.
Ernst, Frederick C., New York, N. Y. Electric door opener. 1,471,455; Oct. 23.
Errett, Thomas A., Seattle, Wash., assignor, by mesne assignments, to Modern Torch Co., Inc. Oxyacetylene welding and cutting torch. 1,471,456; Oct. 23.
Eskilson, Sven A., assignor to Svenska Aktiebolaget Gasaccumulator, Stockholm, Sweden. Cooking apparatus for gas, liquid fuel, or electricity. 1,471,840; Oct. 23.
Eullitt, Ira M., Springfield, Ohio. Lock for automobiles. 1,471,515; Oct. 23.
Evans, Alfred H., New York, N. Y. Collapsible concrete mold. 1,471,951; Oct. 23.
Evans, Sylvester, Woodhaven, assignor to J. Burger, Brooklyn, N. Y. Shoes and making the same. 1,472,017; Oct. 23.
Evans, Thomas B. C., Hawley, Minn. Cabinet. 1,471,594; Oct. 23.
Eyman, Frank H., Oak Park, assignor to Art Novelty Manufacturing Company, Chicago, Ill. Seal press. 1,471,687; Oct. 23.
Eyman, Frank H., Oak Park, assignor to Art Novelty Manufacturing Company, Chicago, Ill. Seal press. 1,471,688; Oct. 23.
Farmer, Albert J., Chicago, Ill. Grease gun. 1,471,330; Oct. 23.
Fecarotta, Jack. (See Di Trapani, S., and Fecarotta.)
Feigelman, Herman A., Paterson, N. J., assignor to D. L. Fleisher, Brooklyn, N. Y. Folding paper box. 1,471,478; Oct. 23.
Fell, Elwood R., assignor to H. J. Flet, Philadelphia, Pa. Steering mechanism. 1,471,553; Oct. 23.
Fernald, Adelbert, Boston, Mass. Orthodontic appliance. 1,471,785; Oct. 23.
Ferris, Frank E., Detroit, Mich., assignor to Societe du Carburateur, Lyon, France. Stop lever. 1,472,000; Oct. 23.
Flet, Harvey J. (See Fell, Elwood R., assignor.)
Fischli, Fritz, Nafels, Switzerland. Hand embroidering machine. 1,471,689; Oct. 23.
Fish, Grant C., and A. H. Cummings, Chico, Calif. Paint-spraying apparatus. 1,471,690; Oct. 23.
Fisk Rubber Company, The. (See Little, Thomas P., assignor.)
Fitzgerald, William H. J., Braintree, Mass. Cutting die. 1,471,653; Oct. 23.
Flannery, M. Markham, et al. (See Flannery, William C., assignor.)
Flannery, William C., Elk Ridge, Md., assignor of seventy-five per cent to M. M. Flannery and twenty-five per cent to C. C. Hines, Washington, D. C. Concrete building. 1,471,841; Oct. 23.
Fleisher, David L. (See Feigelman, Herman A., assignor.)
Fleming, Stuart, Owen Sound, Ontario, Canada. Zinc-plate cylinder for offset lithographing presses. 1,471,392; Oct. 23.
Fletcher, John. (See Brunhoeber, George H., assignor.)
Ford, Charles T., Washington, D. C. Making containers. 1,471,952; Oct. 23.
Forry, Charles E., et al. (See Duncan, Arthur L., assignor.)
Fosheim, Anton, and A. Simons, Grand Haven, Mich. Refrigerator. 1,471,516; Oct. 23.
Fournier, Albert A., Ottawa, Ontario, Canada. Shirt construction. 1,471,457; Oct. 23.
Fournier, Albert A., Ottawa, Ontario, Canada. Soft cuff. 1,471,596; Oct. 23.
Fowler, Albert M., and W. H. Caulfeild, Fairoaks, Calif., assignors to California Almond Growers Exchange, San Francisco, Calif. Almond bleacher and sulphur feeder. 1,471,597; Oct. 23.
Fox, Ray M., Los Angeles, Calif. Automobile foot-steering device. 1,471,393; Oct. 23.
Frederick, Edwin E., Winterhaven, Fla. Demountable rim. 1,471,595; Oct. 23.
French, Henry G., Schenectady, N. Y., assignor to General Electric Company. Protective device. 1,471,890; Oct. 23.
Frimand, Peter A., Miami, Fla., assignor to The Burton Page Company, Chicago, Ill. Milking. 1,471,394; Oct. 23.
Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Match receptacle. 1,471,331; Oct. 23.
Fuller, Olive R., Los Angeles, Calif. Auto wheel. 1,471,786; Oct. 23.
Fulton Iron Works Company. (See Hildebrand, Reinhard, assignor.)
Gacopetta, Domenick, Norwalk, Conn. Combined tail light and license-marker illuminator. 1,471,554; Oct. 23.
Gage, Henry P., assignor to Corning Glass Works, Corning, N. Y. War-zone driving light. 1,471,842; Oct. 23.
Gage, Raymond W., Jackson, Mich. Cylinder-reboring machine. 1,471,458; Oct. 23.
Gaines, Florence E. (See Wheeler, Wellington B., assignor.)
Gallagher, Patrick J. F., Marlboro, N. Y. Fruit basket. 1,471,953; Oct. 23.
Gallagher, Richard D., Chicago, Ill. Guard-rail clamp. 1,471,555; Oct. 23.
Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-painting machine. 1,471,787; Oct. 23.
Gardini, Cesare. (See Driganti, Charles J., assignor.)
Gardner, William R., assignor to Independent Gasaver Corporation, New York, N. Y. Gas-burner attachment. 1,471,788; Oct. 23.
Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Fluid-pressure motor. 1,471,691; Oct. 23.
Garwood, William C., Dayton, Ohio. Auto lamp-dimmer attachment. 1,471,395; Oct. 23.
Gelstharp, Frederick, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company. Process and apparatus for producing spectacle blanks. 1,471,725; Oct. 23.
General Electric Company. (See Elder, Matthew L., assignor.)
General Electric Company. (See French, Henry G., assignor.)
General Electric Company. (See Hamilton, W. S. H., and Krape, assignors.)
General Electric Company. (See Hepperlen, John A., assignor.)
General Electric Company. (See Jacobs, Harry M., assignor.)
General Electric Company. (See Lemp, Hermann, assignor.)
General Electric Company. (See Otis, Albert N., assignor.)
General Lighting Fixture Co. (See Wangersheim, Edgar A., assignor.)
Giese, Walter J., Power, Mont. Charge-condition apparatus for internal-combustion engines. 1,471,598; Oct. 23.
Glider, Andrew, Grand Rapids, Mich. Bedstead construction. 1,471,556; Oct. 23.
Ginn, Percy E. (See Johnson, Harry L., assignor.)
Ginty, Charles L., Lockport, N. Y. Change-speed cone pulley. 1,471,726; Oct. 23.
Gleissner, Anton G., Milwaukee, Wis. Collapsible trailer. 1,471,479; Oct. 23.
Gobberdiel, Peter P., assignor to S. B. Dillehunt, Decatur, Ill. Tourist's guide. 1,471,481; Oct. 23.
Goding, Edward N., trustee. (See Bell, Louis, assignor.)
Gomez, Joseph, Jacksonville, Ill. Culinary device. 1,471,727; Oct. 23.
Goodrich, B. F., Company, The. (See Gammeter, John R., assignor.)
Goodman Manufacturing Company. (See Packer, Glenn W., assignor.)
Goss, Charles E. (See Goss, G. W., Goss, and Roshon.)
Goss, George W., C. E. Goss, and C. O. Roshon, Baltimore, Ohio. Fuel tank. 1,471,482; Oct. 23.
Gough, Charles M., East St. Louis, Ill. Pressing pad. 1,471,891; Oct. 23.
Gove, Henry H., assignor to Gove Motor Company, Biddeford, Me. Internal-combustion engine. 1,471,789; Oct. 23.
Gove Motor Company. (See Emery, Frank M., assignor.)
Gove Motor Company. (See Gove, Henry H., assignor.)
Graef, Carl L., Hawthorne, N. J., assignor of one-half to H. Kind, New York, N. Y. Burglar alarm. 1,471,843; Oct. 23.
Graef, Carl L., Hawthorne, N. J., assignor of one-half to H. Kind, New York, N. Y. Door-knob alarm. 1,471,844; Oct. 23.
Graf, Hans, assignor to Polygraphische Gesellschaft, Laupen-Berne, Switzerland. Writing machine. 1,471,654; Oct. 23.
Greenawalt, William E., Denver, Colo. Apparatus for treating liquids with gases. 1,471,332; Oct. 23.
Greene, John S., Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I. Film-roll box. 1,471,728; Oct. 23.

Greenway, Thomas H., Valley, Wash. Poison holder for rodents. 1,471,954; Oct. 23.
Grieve, Richard P., Detroit, Mich. Valve for internal-combustion engines. 1,471,955; Oct. 23.
Griffiths, Frederick J., and D. N. A. Blacet, Massillon, Ohio. Steel manufacture. 1,471,655; Oct. 23.
Griley, Theodore D., Baltimore, Ohio. Means for raising and lowering beater rolls. 1,471,480; Oct. 23.
Grimes, James H. V. (See Cockbill, F. C., and Grimes.)
Griswold, Albert A., Providence, R. I., assignor of one-half to J. F. Chevalier, Brookline, Mass. Ridge or hip flexible shingle. 1,471,396; Oct. 23.
Groat, Jules H. (See Lane, J. J., and Groat.)
Grochil, Joseph A., New York, N. Y. Bead-sewing machine. 1,471,892; Oct. 23.
Grondahl, Lars O., Pittsburgh, Pa. Focusing and directing headlights. 1,471,790; Oct. 23.
Guild, Andrew. (See McGuire, N. B., and Guild.)
Guild, Andrew W., Houston, Tex. Rotary harrow. 1,471,692; Oct. 23.
Guinzburg, Victor, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Powder-puff holder. 1,471,729; Oct. 23.
Günther, Gottfried, Schwenningen-on-the-Neckar, Germany. Combined clock and letter balance. 1,471,956; Oct. 23.
Hageman, Aaron M., Bloomfield, N. J., and J. M. Kovachy, Cleveland, Ohio, assignors to Westinghouse Lamp Company. Etching compound. 1,471,466; Oct. 23.
Hahne, William C., Elgin, Ill. Electric power device. 1,471,957; Oct. 23.
Hakey, Eli, Swanton, Vt. Pipe wrench. 1,471,958; Oct. 23.
Halferty, Peter F., Aberdeen, Wash. Fly hook. 1,471,959; Oct. 23.
Hall, Charles S., Los Angeles, Calif. Aircraft. 1,471,656; Oct. 23.
Hallauer, Carl H., Los Angeles, Calif. Charge-forming device. 1,471,557; Oct. 23.
Hamburg, George, New York, N. Y. Talking-machine horn. 1,471,459; Oct. 23.
Hamilton-Grapes, George, Balwyn, Melbourne, Victoria, Australia. Carburation of air for internal-combustion engines. 1,471,599; Oct. 23.
Hamilton, William S. H., and Rudolph D. Krape, Schenectady, N. Y., assignors to General Electric Company. System and apparatus for power transmission and regenerative braking. 1,471,893; Oct. 23.
Hampton, Leon N., assignor to Western Electric Company, Incorporated, New York, N. Y. Brake for rolling ladders. 1,471,657; Oct. 23.
Hanna, John T., Hudson, Wis. Treating milk or cream. 1,471,460; Oct. 23.
Hanrahan, Joseph F., Chicago, Ill. Dry kiln. 1,471,602; Oct. 23.
Hanselmann, Charles. (See Rodgers, John F., assignor.)
Harmon, Richard J., Binghamton, N. Y. Cold chisel. 1,471,461; Oct. 23.
Harris, Carl C., Orange, Mass., assignor to Rivet-O Manufacturing Company, Stamp-pad box. Re15,702; Oct. 23.
Harris, Daniel C., Virginia, Minn. Lock nut. 1,471,462; Oct. 23.
Harris, Ford W., Los Angeles, Calif. Three-aspect signal. 1,471,791; Oct. 23.
Harris, William E., Long Beach, Calif. Locking device. 1,471,693; Oct. 23.
Hart Grain Weigher Co. (See Hartley, Arthur J., assignor.)
Hartley, Arthur J., assignor to Hart Grain Weigher Co., Peoria, Ill. Feeder. 1,471,894; Oct. 23.
Hartsough, Ralph B., Minneapolis, Minn. Method of and means for vaporizing hydrocarbon fuels. 1,471,600; Oct. 23.
Haskin, Joseph J., Stockton, Calif. Gear-shift mechanism. 1,471,730; Oct. 23.
Hasty, Leroy, San Diego, Calif. Milk-can punch. 1,471,601; Oct. 23.
Headson, Frank A., Milwaukee, Wis. Speed-changing power-transmission mechanisms for paper-making machines and other similar machines. 1,471,603; Oct. 23.
Heap, Robert S., Ightenhill, Burnley, England. Rotary perforated beam apparatus for dyeing and otherwise treating yarn with fluids. 1,471,658; Oct. 23.
Helander, Ernst G., Philadelphia, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Annealing furnace. 1,471,659; Oct. 23.
Heller, Isaak, Brooklyn, N. Y. Waistband buttonhole strip. 1,471,604; Oct. 23.
Heitzel, Francis O., Warren, Ohio. Hold-tight rail connection. 1,472,018; Oct. 23.
Hemenway, John F. (See Wright, Rea P., assignor.)
Hendricks, Elmer E., Klamath Falls, Oreg. Spring shackle. 1,471,845; Oct. 23.
Henry, William. (See Bingham, Joseph, assignor.)
Henry, Joseph B., Germantown, Ohio. Receptacle or container. 1,471,960; Oct. 23.
Hepperlen, John A., East Orange, N. J., assignor to General Electric Company. System and apparatus for motor control. 1,472,001; Oct. 23.
Herold, Walter F., Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster. 1,471,660; Oct. 23.
Herr, Henry A., assignor to Acme Electrotype Company, Chicago, Ill. Workholder for cutting or dressing machines. 1,471,333; Oct. 23.
Highway Trailer Company. (See Clement, Charles G., assignor.)
Hildebrand, Reinhard, Webster Groves, assignor to Fulton Iron Works Company, St. Louis, Mo. Valve-controlling device for internal-combustion engines; 1,471,463; Oct. 23.
Himmelsbach, William F., assignor to Kelly Lubricator Corporation, Syracuse, N. Y. Ball-feeding vacuum lubricator. 1,471,464; Oct. 23.
Hindshaw Engineering & Development Co. (See Hindshaw, Henry H., assignor.)
Hindshaw, Henry H., assignor to Hindshaw Engineering & Development Co., St. Paul, Minn. Heat-insulating material. 1,471,846; Oct. 23.
Hines, C. Calvert, et al. (See Flannery, William C., assignor.)
Hines, Joseph H., Philadelphia, Pa. Applying vitreous and waterproofing coating to brick and burnt-clay articles. 1,471,792; Oct. 23.
Hinton, Sebastian, Winnetka, assignor to Junglegym, Inc., Chicago, Ill. Climbing structure. 1,471,465; Oct. 23.
Hitch, John E., Cincinnati, Ohio. Heat and cold insulating receptacle and apparatus for supporting and finishing the same. 1,472,019; Oct. 23.
Hjermstad, Christian O. (See Lancaster, S. C., and Hjermstad.)
Hoe, R., and Co. (See Schmidt, Louis A., assignor.)
Hoener, Samuel T., Slater, Mo. Driving and steering mechanism for cultivators. 1,471,397; Oct. 23.
Hoff, Tony, L. C. Shelton, and A. MacMillan, Butte, Mont. Riveting tool. 1,471,605; Oct. 23.
Holmes, William H., Mount Vernon, N. Y. Filing system. 1,472,020; Oct. 23.
Holt, Henry M., New York, N. Y. Automobile towing frame. 1,472,003; Oct. 23.
Holt, Walter E., Loris, S. C. Window sash. 1,472,002; Oct. 23.
Holliday, Peter A., assignor to Belliss and Morcom Limited, Edgbaston, Birmingham, Warwick, England. Internal-combustion engine. 1,471,847; Oct. 23.
Holmdahl, Charles, Kellogg, Iowa. Combination pump jack and speed-reducing mechanism. 1,471,606; Oct. 23.
Holtzer-Cabot Electric Company, The. (See Bickell, George H., assignor.)
Holvay, Susie T., Watts, Calif. Oven. 1,471,961; Oct. 23.
Hooser, John W., Dallas, Tex. Well tool. 1,471,607; Oct. 23.
Hopkins, Gordon, assignor to National Box Company, Chicago, Ill. Form for use in making box blanks. 1,471,558; Oct. 23.
Hopper, Moe, Kansas City, Mo. Display stand. 1,471,834; Oct. 23.
Hornbeck, Charles H., Appleton, assignor to Kimberly-Clark Company, Neenah, Wis. Color dropper. 1,471,731; Oct. 23.
Horne, George A., Plainfield, N. J. Process and apparatus for multiple-stage compression for refrigeration. 1,471,732; Oct. 23.
Houskeeper, William G., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum pump. 1,471,661; Oct. 23.
Houskeeper, William G., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum pump. 1,471,662; Oct. 23.
Howard, Charles H. (See Jackson, P. T., and Howard.)
Howson, Charles T., Silver Creek, N. Y. Coffee roaster. 1,471,663; Oct. 23.
Hoyt, Hazen L., jr. (See Bell, H. W. and Hoyt.)
Hubbard, Hubert T., Detroit, Mich. T-square. 1,471,467; Oct. 23.
Huebner, William C., Buffalo, N. Y. Method of and means for preparing cylinders of offset printing machines. 1,471,895; Oct. 23.
Hummel, August C., Cincinnati, Ohio, assignor to A. Kimball Co., New York, N. Y. Tag for textile fabric. 1,471,483; Oct. 23.
Humphreys, Charles A., Chicago, Ill. Bill fold. 1,471,484; Oct. 23.
Hutchinson, Henry B. (See Richards, E. H., and Hutchinson.)
Icre, Baptiste, New York, N. Y. Propeller for vessels. 1,471,896; Oct. 23.
Ihamuotila, Karl R., Helsingfors, Finland. Electricity counter. 1,471,664; Oct. 23.
Independent Gasaver Corporation. (See Gardner, William R., assignor.)
Inglis, Henry B., Dayton, Ohio. Gun mount with remote control. 1,471,398; Oct. 23.
International Harvester Company. (See Moxey, James A., assignor.)
Irwin, Clifton W., Los Angeles, and N. V. D. Brock, Santa Ana, Calif.; said Irwin assignor to said Brock. Press. 1,471,608; Oct. 23.
Isaacsen, Albert J., Salt Lake City, Utah. Tag holder. 1,471,485; Oct. 23.
Isbell, Charles A., Pasadena, assignor of one-half to W. E. Miller, Los Angeles, Calif. Theft alarm. 1,471,738; Oct. 23.

Israel, Eli, Wilkes-Barre, Pa. Carbide container. 1,471,793; Oct. 23.
Jackson Company, The. (See Jackson, Maxey, assignor.)
Jackson, Maxey, Portland, Oreg., assignor to The Jackson Company, Emmett, Idaho. Lumber elevator. 1,471,468; Oct. 23.
Jackson, Patrick T., Cambridge, and C. H. Howard, Saugus, assignors to Paper Products Machine Company, Boston, Mass. Machine for applying reenforcing filaments to fabrics. 1,472,021; Oct. 23.
Jacobs, Harry M., Schenectady, N. Y., assignor to General Electric Company. Battery-charging system. 1,471,897; Oct. 23.
Jacobs, Ivern A. (See Charles, H., and Jacobs.)
Jacquet, Etienne. (See Sentou, C. A., and Jacquet.)
James, William B., Los Angeles, Calif. Container for toilet creams and the like. 1,471,735; Oct. 23.
Jamison, Mrs. W. K., et al., trustees. (See Mathewson, S. B., and Jamison, assignors.)
Jamison, Walter K., et al., trustees. (See Mathewson, S. B., and Jamison, assignors.)
Jansen, Peter N., Philadelphia, Pa. Vehicular extension support. 1,471,734; Oct. 23.
Jeffrey Manufacturing Company, The. (See Dunlop, Robert R., assignor.)
Jeffrey Manufacturing Company, The. (See Joy, Joseph F., assignor.)
Jenkins, Alexander F., Baltimore, Md. Welding and cutting torch. 1,471,694; Oct. 23.
Jennings, John. (See Kay, J., and Jennings.)
Jewett, Arthur C., New Haven, Conn., assignor to Winchester Repeating Arms Company. Dry cell. 1,471,486; Oct. 23.
Johnson, Axel, Oakland, Calif. Operating means for casement windows. 1,471,736; Oct. 23.
Johnson, Edgar D., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system and operating the same. 1471,335; Oct. 23.
Johnson, Harry L., Jamaica Plain, assignor to P. E. Ginn, Boston, Mass. Wax-wrapping machine. 1,471,487; Oct. 23.
Johnson, Maxwell O., Waipio, and R. H. Lowrie, Honolulu, Hawaii. Pineapple-trimming machine. 1,471,336; Oct. 23.
Johnson, Paul A., Denver, Colo. Illuminated indicator. 1,471,337; Oct. 23.
Johnson, Sigurd W., assignor of one-half to E. O. Turnquist, Minneapolis, Minn. Portable scaffold. 1,471,848; Oct. 23.
Jolly, John A., Long Beach, Calif. Automatic water drain for oil tanks. 1,471,737; Oct. 23.
Jones, Christopher C., Chipley, Ga. Mold form. 1,472,004; Oct. 23.
Jones, Fred W. (See Lundgren, Fred, assignor.)
Jones, John W., Auckland, New Zealand. Guard for motor vehicles and the like. 1,472,005; Oct. 23.
Jones, Llewllyn, Muncie, Ind. Method and apparatus for the reduction of impurities contaminating molten metals. 1,472,006; Oct. 23.
Jones, Shepard, Tarentum, Pa. Tea and coffee pot. 1,472,007; Oct. 23.
Jorgensen, Emil, Des Moines, Iowa. Fastener for window screens. 1,471,609; Oct. 23.
Joy, Joseph F., Belle Vernon, Pa., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Protective device. 1,471,610; Oct. 23.
Junglegym, Inc. (See Hinton, Sebastian, assignor.)
Kaczmarski, Bronislaw, Detroit, Mich. Beet topper. 1,471,738; Oct. 23.
Kahl, Charles N., Jacksonville, Ill. Hydraulic clutch. 1,471,338; Oct. 23.
Kalsling, Frank W., jr., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Ammeter. 1,471,849; Oct. 23.
Kammerhoff, Meno, Orange, N. J. Battery holder. 1,471,739; Oct. 23.
Kardos, Emanuel, Newark, N. J. Detinning tin scrap and the like. 1,471,469; Oct. 23.
Karge, Maxwell R., Phoenix, assignor, by mesne assignments, to C. J. Deckop, Buffalo, N. Y. Cushion shaft coupling. 1,471,488; Oct. 23.
Kay, Joseph, Stockport, and J. Jennings, London, assignors to Premier Private Telephone Company Limited, Stockport, England. Telephone. 1,471,696; Oct. 23.
Kee, Charles L., Portsmouth, Va. Advertising device. 1,471,665; Oct. 23.
Keeler, Alonzo R., Altona, Ill. Corn husker and the like. 1,471,898; Oct. 23.
Keith, George, and W. A. Whatmough, London, England. Liquid-fuel vaporizer. 1,471,470; Oct. 23.
Kelth, Hugh, jr., et al. (See McNab, Norman S., assignor.)
Kellebrew, Tom V., Hamburg, Ark. Hay press. 1,471,399; Oct. 23.
Kellem, Walter H., Cecilia, Ky. Automatic train-stop and speed-control device. 1,471,611; Oct. 23.
Kelley, Emmor B., and G. A. Stewart, jr., South Brownsville, Pa. Auto lift. 1,471,695; Oct. 23.
Kellogg Switchboard and Supply Company. (See Kalsling, Frank W., jr., assignor.)
Kelly Lubricator Corporation. (See Himmelsbach, William F., assignor.)
Kemker, John H., et al. (See Tullis, Harley A., assignor.)
Kennedy, Robert M., Pittsburgh, Pa. Liquid-fuel burner. 1,471,666; Oct. 23.
Kentrup, Clemens to, Exeland, Wis. Vehicle lock. 1,471,962; Oct. 23.
Kimball, A., Co. (See Hummel, August C., assignor.)
Kimberly-Clark Company. (See Hornbeck, Charles H., assignor.)
Kimes, Robert H., and O. F. Schmidt, assignors to Ohmer Fare Register Company, Dayton, Ohio. Recording device for motor vehicles. 1,471,850; Oct. 23.
Kind, Hermann. (See Graef, Carl L., assignor.)
Kingsbury, George P., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical elements. 1,471,400; Oct. 23.
Kingsford, Russell T., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa. Armature winding. 1,471,851; Oct. 23.
Kinoshita, Yokichi, Boston, Mass. Dumping-truck apparatus. 1,471,339; Oct. 23.
Kirlin, Otis M., Watertown, S. Dak. Scale. 1,471,518; Oct. 23.
Kleiman, Dirk A., Ogden, Utah. Changeable exhibitor for cars. 1,472,008; Oct. 23.
Kleinert, I. B., Rubber Company. (See Guinzburg, Victor, assignor.)
Kline, Everett C., assignor to The Laminated Metal Products Company, Cincinnati, Ohio. Lock and lock mounting. 1,471,517; Oct. 23.
Kline, Everett C., assignor to The Laminated Metal Products Company, Cincinnati, Ohio. Lock and lock mounting. 1,471,740; Oct. 23.
Knauf, Paul W., Cynwyd, assignor to Schutte and Koerting Company, Philadelphia, Pa. Fan blower. 1,471,559; Oct. 23.
Knepper, Harry H. (See Aland, Richard C., assignor.)
Knight, James B., El Paso, Tex. Apparatus for conserving gas, oil, and other fluids. 1,472,009; Oct. 23.
Knight, Julian G., Brooklyn, N. Y. Outlet or junction box. 1,471,340; Oct. 23.
Knudsen, Knud J., Chicago, Ill. Door and window step. 1,471,852; Oct. 23.
Koenig, August, assignor of one-half to W. Koenig, Murphysboro, Ill. Mail box. 1,471,899; Oct. 23.
Koenig, William. (See Koenig, August, assignor.)
Kollmorgen, William J., and R. L. Zerby, South Bend, Ind. Periodical publication. 1,471,489; Oct. 23.
Koos, Lawrence E., Toledo, Ohio. Commutator for dynamo-electric machines. 1,472,023; Oct. 23.
Koppers Development Corporation, The. (See Koppers, Heinrich, assignor.)
Koppers, Heinrich, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation, Pittsburgh, Pa. Desulphurization of iron and steel. 1,471,401; Oct. 23.
Kosatka, Frank V., and E. Stepkal, Cicero, Ill. Hairpin. 1,471,612; Oct. 23.
Kourtzman, Per A., Vartan, near Stockholm, Sweden. Rail joint. 1,471,613; Oct. 23.
Kovachy, Julius M. (See Hageman, A. M., and Kovachy.)
Krape, Rudolph D. (See Hamilton, W. S. H., and Krape.)
Krikava, James W., Myrtle, Minn. Binder. 1,472,010; Oct. 23.
Krump, Nic, Chicago, Ill. Automatically-opening switch. 1,471,490; Oct. 23.
Kubeš, František, Prague-Nusle, Czechoslovakia. Apparatus for making sugar fondant. 1,471,697; Oct. 23.
Kunkle, Bayard D., Springfield, Mass., assignor to The Caskey-Dupree Manufacturing Company. Switch mechanism for automobiles. 1,471,741; Oct. 23.
Labombarde, Elie W., Nashua, N. H. Double-wall box and making the same. 1,471,491; Oct. 23.
La Duke, Emery E., Salt Lake City, Utah. Liquid clarifier. 1,471,614; Oct. 23.
Lagergren, Andrew, Altoona, Pa. Combination tool. 1,471,963; Oct. 23.
Lamb, Sidney R., New York, N. Y. Time calculator. 1,471,341; Oct. 23.
Lamb, William A., assignor of one-half to N. S. Ballantine, Denver, Colo. Shale retort. 1,471,492; Oct. 23.
Laminated Metal Products Company, The. (See Kline, Everett C., assignor.)
Lancaster, Samuel C., and C. O. Hjermstad, Portland, Oreg., assignors to Autowhirl Corporation, Chicago, Ill. Garage or other building. 1,472,031; Oct. 23.
Lane, John J., and J. H. Groat, St. Paul, Minn. Automobile lock. 1,471,742; Oct. 23.
Langevin, Paul. (See Chilowsky, C., and Langevin.)
Langford, George W., Ann Arbor, Mich. Snubber. 1,471,560; Oct. 23.
Larson, Joseph E., Seattle, Wash. Derrick. 1,471,853; Oct. 23.
Lawrence Paper Manufacturing Company. (See Saylor, H. A., Peck, and Dinsmoor, assignors.)
Leas, Bert E., Luverne, Minn. Rake. 1,471,964; Oct. 23.
Leblanc, Charles L. A. M., assignor to Société Anonyme pour l'Exploitation des Procédés Maurice Leblanc-Vickers, Paris, France. Balancing disturbing forces and couples which are produced in a reciprocating engine. 1,472,012; Oct. 23.
Lee, Y. K., assignor to The Borromite Company of America, Chicago, Ill. Base-exchange silicate and preparing the same. 1,472,011; Oct. 23.

Le Fever, Frank, Fulton, N. Y. Breech-loading single-barrel gun. 1,471,900; Oct. 23.
Leffingwell, William H., Newark, N. J. Device for demonstrating lighting effects. 1,471,615; Oct. 23.
Legate, William H., Hartford, Conn. Internal-combustion engine. 1,471,743; Oct. 23.
Lehman, John G., assignor to Bethlehem Foundry & Machine Company, Bethlehem, Pa. Temperature control of kettles by zones. Re15,703; Oct. 23.
Leister, William H., assignor to The United Machinery Company, Westminster, Md. Corn-husking machine. 1,471,616; Oct. 23.
Lemp, Hermann, Erie, Pa., assignor to General Electric Company. Synchronizing of shafts. 1,471,901; Oct. 23.
Lennartz, Garfield F. (See Lords, T. J., and Lennartz.)
Lent, Heinrich. (See Besta, A., and Lent.)
Leven, Charles, London, England. Apparatus for obtaining practice in golf or other games or physical exercises. 1,471,794; Oct. 23.
Lewellyn, John A., Toledo, Ohio. Wire-enameling machine. 1,472,024; Oct. 23.
Lewis, Frank, Warren, Ohio. Metal tip for shoe laces. 1,471,965; Oct. 23
Lifschitz, Charles W. (See Nelson, Louis, assignor.)
Light, Henry B., assignor of one-half to C. A. Almy, San Quentin, Calif. Heel. 1,471,966; Oct. 23.
Lindberg, John E., Chicago, Ill. Electric switch. 1,471,903; Oct. 23.
Lindenthal, H. M., & Sons. (See Lindenthal, Henry M., assignor.)
Lindenthal, Henry M., assignor to H. M. Lindenthal & Sons, Chicago, Ill. Coat and the like. 1,471,902; Oct. 23.
Lippis, Ben, Chandler, Colo. Drilling machine. 1,471,904; Oct. 23.
Litot, Bernard E., Wilkinsburg, Pa. Washing machine. 1,471,667; Oct. 23.
Little, Thomas P., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Applying cord fabric to cores. 1,471,905; Oct. 23.
Lloyd, Richard L., assignor to Dwight & Lloyd Sintering Company, New York, N. Y. Pallet mechanism for ore-sintering machines. 1,471,402; Oct. 23.
Loft Incorporated. (See Wallace, Harvey R., assignor.)
Logan, Lloyd, Arlington, Mass. Means for controlling processes of production. 1,471,342; Oct. 23.
Lombardo, Nicodemus. (See Martire, V., Defrancisco, Messino, and Lombardo.)
Longren, Albin K., Topeka, Kans. Forming curved bodies from fiber sheets. 1,471,906; Oct. 23.
Lords, Thaddeus J., and G. P. Lennartz, assignors to Sears, Roebuck and Co., Chicago, Ill. Roofing machine. 1,471,493; Oct. 23.
Lorenz, Samuel E., assignor to Electric Welding Machine Company, Detroit, Mich. Angle drill. 1,471,343; Oct. 23.
Loudin, Henri, Quebec, Quebec, Canada. Insect-repellent composition. 1,471,344; Oct. 23.
Lowrie, Robert H. (See Johnson, M. O., and Lowrie.)
Lubow, Mitchell J., New York, N. Y. Electric-fixture canopy. 1,471,494; Oct. 23.
Lucke, Charles E., New York, N. Y., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Door check and closer. 1,471,744; Oct. 23.
Lumley, Wilfrid, Conneaut, Ohio. Globe holder for lighting fixtures. 1,471,561; Oct. 23.
Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,471,617; Oct. 23.
Lundgren, Fred, Los Angeles, Calif., assignor of one-half to F. W. Jones, Nashville, Tenn. Intake manifold. 1,471,745; Oct. 23.
Lyndon, Edward, New York, N. Y. Headlight lens. 1,471,668; Oct. 23.
McCain, William E., Erie, Pa. Ditching machine. 1,471,498; Oct. 23.
McClintock, William, New York, N. Y. Fire-hose rack. 1,471,499; Oct. 23.
McClintock, William, New York, N. Y. Hose rack. 1,471,500; Oct. 23.
McCloy, John H., Pittsburgh, Pa. Coupling. 1,471,520; Oct. 23.
McClung, John W. (See Cox, Jesse C., and McClung.)
McCord, Arthur W., Washington, D. C. Soap-dispensing device. 1,471,621; Oct. 23.
McCullough, Frederick S., assignor to G. L. Martin, Cleveland, Ohio. Radiotelegraphy. 1,471,406; Oct. 23.
McElroy, John L., San Antonio, Tex. Safety hair cutter. 1,471,970; Oct. 23.
McElroy, Roy H., assignor to R. H. McElroy, receiver for The Bohmann Iron Works Co., Dayton, Ohio. Clay-working machinery. 1,471,405; Oct. 23.
McElroy, Roy H., receiver. (See McElroy, Roy H., assignor.)
McElroy, William J., New York, and J. Clarke, Manhasset, assignors, by mesne assignments, to Alchemic Gold Company, Inc., New York, N. Y. Printing ink. 1,471,746; Oct. 23.
McGuire, Norman B., Wahiawa, Oahu, and A. Guild, Honolulu, Hawaii. Machine for laying mulches. 1,471,796; Oct. 23.
McKeown, William A., Columbus, Ohio. Low-water alarm for steam boilers. 1,471,564; Oct. 23.
McLean, Robert W., Bridgewater, assignor to Carver Cotton Gin Company, East Bridgewater, Mass. Saw-gumming machine. 1,472,013; Oct. 23.
McNab, Norman S., Melbourne, assignor to T. L. Courtney and H. Keith, junior, Wychitella, Victoria, Australia. Motor-car-spring mechanism. 1,471,622; Oct. 23.
McNeal, Annie R., New York, N. Y. Typewriter attachment. 1,471,407; Oct. 23.
MacMillan, Alexander. (See Hoff, T., Shelton, and MacMillan.)
Machlet, Adolph W., Elizabeth, N. J. Furnace. 1,471,618; Oct. 23.
Madaus, Gerhard, Bonn, Germany. Apparatus for applying volatile substances to the human body. 1,472,032; Oct. 23.
Madigan, John W., Connellsville, Pa. Cement batch box, carrier, and dump. 1,471,403; Oct. 23.
Mahlmann, Sophy, Baltimore, Md. Eye shade. 1,471,967; Oct. 23.
Malcom, Robert, Chicago, Ill. Eye protector. 1,471,562; Oct. 23.
Mallery, Arlington H., Syracuse, N. Y. Heater. 1,471,519; Oct. 23.
Manss, Walter A., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Blue sulphur dye. 1,471,854; Oct. 23.
Mantha, William L., Bayport, N. Y. Apparatus for truing hub-flange seats. 1,471,795; Oct. 23.
Marheine, Frederick W., Spokane, Wash. Convertible chair. 1,471,495; Oct. 23.
Marquis, Amédée, London, England. Combined blowpipe and soldering iron. 1,471,620; Oct. 23.
Marston, Howard F., et al., trustees. (See Mathewson, S. B., and Jamison, assignors.)
Martel, Edgar J., and R. G. Sanders, Laconia, N. H. Switch support. 1,471,496; Oct. 23.
Martin, Glenn L. (See McCullough, Frederick S., assignor.)
Martin, James V., Garden City, N. Y. Vehicle shock absorber. 1,471,968; Oct. 23.
Martin, Jesse C., jr. (See Roberts, J. T., and Martin.)
Martin, John L., jr., Newport News, Va. Internal-combustion engine. 1,471,497; Oct. 23.
Martin, Richard, Swansea, and J. I. Richards, Ystalyfera, near Swansea, Wales. Apparatus for use in the treatment of pulverulent or granular materials with gases. 1,471,619; Oct. 23.
Martin, William H., New York, N. Y., assignor to American Telephone and Telegraph Company. Signaling circuit. 1,471,404; Oct. 23.
Martire, Vincent, S. Defrancisco, L. Messino, and N. Lombardo, Gloversville, N. Y. Automobile brake. 1,471,780; Oct. 23.
Mason, Albert G., and L. C. Buckley, Lisbon, assignors to The R. Thomas & Sons Company, East Liverpool, Ohio. Machine for heading porcelain tubes and the like. 1,471,907; Oct. 23.
Mather, Percy, London, England. Relief valve for tanks or receptacles. 1,471,855; Oct. 23.
Mathewson, Mrs. S. B., et al., trustees. (See Mathewson, S. B., and Jamison, assignors.)
Mathewson, Stanley B., and W. K. Jamison, Springfield, Ohio, assignors to W. K. Jamison, S. B. Mathewson, H. F. Marston, Mrs. W. K. Jamison, and Mrs. S. B. Mathewson, trustees of the Lecar Carbon Company, a trust estate. Carbonizing compound and making and using it. 1,471,563; Oct. 23.
Mathewson, Stanley B., et al., trustees. (See Mathewson, S. B., and Jamison, assignors.)
May, Lena O. (See May, William H., assignor.)
May, William H., assignor to L. O. May, Atlanta, Ga. Piston. 1,471,969; Oct. 23.
Mazza, Guido, Turin, Italy. Reciprocating electric motor. 1,471,698; Oct. 23.
Measuregraph Company, The. (See Wheeler, John L., assignor.)
Medusa Concrete Waterproofing Company. (See Newberry, Spencer B., assignor.)
Mee, William J., et al. (See Tullis, Harley A., assignor.)
Meigs, Curtis C., Bala, Pa. Artificial silk and making the same. 1,471,699; Oct. 23.
Meininghaus, Ewald, Lancaster, N. Y. Target apparatus. 1,471,521; Oct. 23.
Melli, Ambrogio. (See Baisi, Joseph, assignor.)
Mergenthaler Linotype Company. (See Kingsbury, George P., assignor.)
Mergenthaler Linotype Company. (See Pierson, Edwin W., assignor.)
Mergott, J. E., Company, The. (See Fuller, Franz A., assignor.)
Merrill, Cortez, and C. M. Wegner, Oelwein, Iowa. Automobile clock frame. 1,471,797; Oct. 23.
Merrill, Sidney B., assignor to The E. W. Vanduzen Company, Cincinnati, Ohio. Gong. 1,471,798; Oct. 23.
Mertz, Albert, Dayton, Ohio. Internal-combustion engine. 1,471,408; Oct. 23.
Messino, Liborio. (See Martire, V., Defrancisco, Messino, and Lombardo.)
Meyer, Jay S., Philadelphia, Pa. Refrigerator. 1,471,503; Oct. 23.
Michaelson, Henry G., assignor to The Rockford Showcase & Fixture Company, Rockford, Ill. Showcase. 1,471,908; Oct. 23.

Mierzwinski, Stanislaw, Trenton, N. J. Canoe-propelling device. 1,471,747; Oct. 23.
Miles, George F., New York, N. Y. Windshield construction. 1,471,858; Oct. 23.
Miller, Dorr, Toledo, Ohio. Tool for assembling or disassembling gears or cams and their axles. 1,471,502; Oct. 23.
Miller, Henry, assignor to American Can Company, San Francisco, Calif. Method and apparatus for lubricating punching dies. 1,471,669; Oct. 23.
Miller, Henry D., Oklahoma, Okla. Automobile step. 1,471,972; Oct. 23.
Miller, Leslie E., Knoxville, Tenn. Window and showcase display racks. 1,471,900; Oct. 23.
Miller Rubber Company, The. (See Steele, Charles W., assignor.)
Miller, Victor A., St. Paul, Minn. Rotary brush. 1,471,748; Oct. 23.
Miller, William D., Mount Carmel, Ill. Revolving telescoping derrick. 1,471,971; Oct. 23.
Miller, William R. (See Isbell, Charles A., assignor.)
Milton, John L., Cleveland, Ohio. Air cleaner. 1,471,565; Oct. 23.
Milton, John L., Cleveland, Ohio, assignor to Motor Ignition & Devices Company. Electrical ignition system for internal-combustion engines. 1,471,345; Oct. 23.
Minder, Emil E., Wisdom, Mont. Hook. 1,471,973; Oct. 23.
Mitchell, Clyde B., Minneapolis, Minn. Straightedge device for use in trimming sheet material. 1,471,522; Oct. 23.
Mix, Frederick B., Brooklyn, N. Y., assignor to Joseph Dixon Crucible Company, Jersey City, N. J. Display case. 1,471,974; Oct. 23.
Modern Torch Co. (See Errett, Thomas A., assignor.)
Mohr, George F., Victor, Iowa. Watch mechanism. 1,471,623; Oct. 23.
Monroe, Edward R., Bay City, Mich. Body and limb developer. 1,471,749; Oct. 23.
Moore, Fred M., Sacramento, Calif. Piston ring. 1,471,700; Oct. 23.
Moore, Matthew S., assignor to Cowlishaw, Walker & Company (1920) Limited, London, England. Coal cutter. 1,471,975; Oct. 23.
Moore, Raymond G., assignor to The Bassick Company, Bridgeport, Conn. Door latch. 1,471,523; Oct. 23.
Moore, Wilbert P., Worland, Wyo. Spark-plug tester. 1,471,976; Oct. 23.
Morrell, David S., Oldtown, Me. Article holder. 1,471,799; Oct. 23.
Morton, Gust O., Rockford, Ill. Length-determining device for drying forms. 1,471,501; Oct. 23.
Morton, Henry E., Muskegon, Mich. Magnetic chuck. 1,471,624; Oct. 23.
Motor Ignition & Devices Company. (See Milton, John L., assignor.)
Motor Products Corporation. (See Diederich, Paul E., assignor.)
Motor Starter & Air Pump Company. (See Beam, Edwin C., assignor.)
Moulton, Adrian, Devonport, Auckland, New Zealand. Collapsible crate or case. 1,471,524; Oct. 23.
Moxey, James A., Chicago, Ill., assignor to International Harvester Company. Adjustable reach bar. 1,471,346; Oct. 23.
Mulac, Anthony A., assignor to The Buckeye Twist Drill Company, Alliance, Ohio. Drill shank and sleeve socket. 1,471,702; Oct. 23.
Mulligan, Gerald J., Columbus, Ohio. Container. 1,471,910; Oct. 23.
Murphy, John J., Chicago, Ill. Motor fuel. 1,471,566; Oct. 23.
Mutrix, Charles L., New Orleans, La. Steering-gear lock. 1,471,409; Oct. 23.
Myer, Claus D., assignor to Myer Flush Valve Co., Inc., West Hoboken, N. J. Flush valve. 1,471,504; Oct. 23.
Myer Flush Valve Co. (See Myer, Claus D., assignor.)
Nalley, William L., assignor of one-half to S. C. Barnes, Hagerstown, Md. Water-supply system. 1,471,800; Oct. 23.
National Box Company. (See Hopkins, Gordon, assignor.)
National Transit Pump & Machine Company. (See Sharp, Jefferson, M., assignor.)
Neal, Russell E., St. Louis, Mo. Combination work glove. 1,471,801; Oct. 23.
Neff, Abner R., Long Beach, Calif. Can opener. 1,471,857; Oct. 23.
Nelson, John, Ottawa, Kans. Shock absorber for railway crossings. 1,471,701; Oct. 23.
Nelson, Louis, assignor to C. W. Lifschitz, New York, N. Y. Die press. 1,471,858; Oct. 23.
Neumeyer, Horace F., Macungie, Pa. Fuel saver and decarbonizer. 1,471,411; Oct. 23.
New Liberty Washing Machine Company. (See Waite, Carlton K., assignor.)
New Martinsville Glass Mfg. Co. (See Clarke, Ira M., assignor.)
Newberry, Andrew W., executor. (See Newberry, Spencer B.)
Newberry, Spencer B., deceased, Cleveland, Ohio; A. W. Newberry, executor, assignor to Medusa Concrete Waterproofing Company, Cleveland, Ohio. Making waterproofing for concrete and the product thereby produced. 1,471,410; Oct. 23.
Newkirk, William B., Edgewater, N. J., assignor to Corn Products Refining Company. Making grape sugar. 1,471,347; Oct. 23.
Nicholson, Niels C., assignor to Seattle-Astoria Iron Works, Seattle, Wash. Fish-dressing machine. 1,471,567; Oct. 23.
Niermeyer, Henry W., Utica, N. Y. Stopping device for knitting machines. 1,471,802; Oct. 23.
Nitrum Aktiengesellschaft. (See Siebert, Werner, assignor.)
Norwalk Tire and Rubber Company, The. (See Converse, Francis B., assignor.)
Odom, John S., Hiawatha, Kans. Automobile bed. 1,471,703; Oct. 23.
Ogden, J. Edward. (See Ogden, R. E., and Tomkinson, assignors.)
Ogden, Ralph E., Mountainville, N. Y., and C. C. Tomkinson, Plainfield, N. J., assignors to J. E. Ogden, Mountainville, N. Y. Bolt anchor. 1,471,911; Oct. 23.
Ohio Brass Company, The. (See Chandler, Homer P., assignor.)
Ohmer Fare Register Company. (See Kimes, R. H., and Schmidt, assignors.)
Ohmer, John F. (See Ohmer, John F., jr., assignor.)
Ohmer, John F., jr., assignor to J. F. Ohmer, Dayton, Ohio. Speed recorder. 1,471,977; Oct. 23.
Olsen, John K., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Combined compression spring and spring-bar bumper. 1,471,568; Oct. 23.
Optel, Royal W., Cuero, Tex. Portable grinding machine. 1,471,412; Oct. 23.
Oppenheim, Julius, assignor to Dasco Import Co. Inc., New York, N. Y. Match case. 1,471,912; Oct. 23.
Opsahl, Harry L., Minneapolis, Minn. Indicator and signal. 1,471,625; Oct. 23.
Otis, Albert N., Schenectady, N. Y., assignor to General Electric Company. Electric heater. 1,471,913; Oct. 23.
Pachmayr, Anna M., Los Angeles, Calif. Toothbrush. 1,471,626; Oct. 23.
Packer, Glenn W., assignor to Goodman Manufacturing Company, Chicago, Ill. Scraper. 1,471,627; Oct. 23.
Paff, John, Allentown, Pa., assignor to Bryden-Neversiip Company, New Brunswick, N. J. Horseshoe and calk therefor. 1,472,025; Oct. 23.
Page, Samuel H., Stratford, Conn., assignor to The American Fabrics Company, Stratford, Conn. Lace. Des. 63,153; Oct. 23.
Page, Samuel H., Stratford, Conn., assignor to The American Fabrics Company, Stratford, Conn. Lace. Des. 63,154; Oct. 23.
Page, Samuel H., Stratford, Conn., assignor to The American Fabric Company. Lace. Des. 63,155; Oct. 23.
Page, Samuel H., Stratford, Conn., assignor to The American Fabrics Company. Lace. Des. 63,156; Oct. 23.
Page, Victor W., New York, N. Y. Brake structure. 1,471,914; Oct. 23.
Page, Victor W., New York, N. Y. Differential. 1,471,915; Oct. 23.
Palmer, Wayne F., Washington, D. C. Submarine mine. 1,471,628; Oct. 23.
Palmeter, John R., Jamestown, N. Y. Wrench. 1,471,413; Oct. 23.
Palizza, Giuseppe, Providence, R. I. Manifold mixer for gas engines. 1,471,704; Oct. 23.
Panocha, Joe. (See Bzowy, Mike, assignor.)
Paper Products Machine Company. (See Jackson, P. T., and Howard, assignors.)
Parkes, Bertrand A., assignor to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Drying machine. 1,471,803; Oct. 23.
Parrella, Antonio, Washington, D. C. Insect guard. 1,471,630; Oct. 23.
Parry, Irene A., Seattle, Wash. Dough mixer. 1,471,629; Oct. 23.
Parsons, Harold K. (See Tillyer, E. D., and Parsons.)
Pascucci, Emilio, assignor to Corning-Glass Works, Corning, N. Y. Making mold plungers. 1,471,804; Oct. 23.
Patch, F. R., Manufacturing Company. (See Crane, Leslie, assignor.)
Pattison, William L., Rosedale, Kans. Stair. 1,471,569; Oct. 23.
Patton, Hal T., assignor to Bishop & Babcock Company, Cleveland, Ohio. Automatic control mechanism for electric switches. 1,471,859; Oct. 23.
Paulus, Charles L., Dayton, Ohio. Charging device for machine guns. 1,471,348; Oct. 23.
Paulus, Charles L. (See Russell, H. O., and Paulus.)
Pavola, Alfred, New York, N. Y. Window lock and guard. 1,471,525; Oct. 23.
Payne, Albert E. H., Kildare, Ireland. Bicycle and the like. 1,471,505; Oct. 23.
Pearsons, George T., New York, N. Y. Fire extinguisher. 1,471,750; Oct. 23.
Pease, Durell O., Hampden, Mass. Apron-roughener for condensers. 1,471,414; Oct. 23.
Peck, Arthur S. (See Saylor, H. A., Peck, and Dinsmoor.)
Pellow, Arthur, assignor to American Optical Company, Southbridge, Mass. Lens. 1,471,351; Oct. 23.
Pelterie, Robert E., Paris, France. Internal-combustion and fluid-pressure engine. 1,471,860; Oct. 23.
Perkins, Thomas F., Atlanta, Tex. Toller. 1,471,349; Oct. 23.

Perrault, Oscar L., Albany, N. Y. Valve-actuating mechanism for internal-combustion engines. 1,471,861; Oct. 23.
Perry, William C., Kansas City, Mo. Motor fuel. 1,471,916; Oct. 23.
Persson, Martin A., Malmo, Sweden. Electric switch. 1,471,631; Oct. 23.
Peterson, John L., Grand Rapids, Mich. Curtain fastener. 1,471,570; Oct. 23.
Phelps, Stephen B., Pittsburgh, Pa. Dowel pin and cup for mounting patterns. 1,471,978; Oct. 23.
Philadelphia Drying Machinery Company, The. (See Parkes, Bertrand A., assignor.)
Philips, Hans A., Stratford, Conn., assignor to The American Fabrics Company. Lace. Des. 63,157; Oct. 23.
Photostat Corporation. (See Greene, John S., assignor.)
Piaser, Abraham, Elmhurst, assignor to Rosenwasser Bros. Inc., Astoria, Long Island, N. Y. Safety device for power presses. 1,471,350; Oct. 23.
Pickin, Rowland O., Los Angeles, Calif. Rotary drill bit. 1,471,526; Oct. 23.
Pierson, Edwin W., Newark, N. J., assignor to Mergenthaler Linotype Company. Typographical machine. 1,471,352; Oct. 23.
Pihl, Albert, Murray, Utah. Fruit-jar wrench. 1,471,353; Oct. 23.
Pines Manufacturing Company. (See Willis, George M., assignor.)
Pittsburgh Plate Glass Company. (See Gelstharp, Frederick, assignor.)
Platt, William H., Hamilton, Ohio. Jar holder. 1,471,415; Oct. 23.
Polygraphische Gesellschaft. (See Graf, Hans, assignor.)
Pool, Charles R. P., Dallas, Tex. Lift for gin breasts. 1,471,416; Oct. 23.
Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Distributing apparatus. 1,471,354; Oct. 23.
Porter, Hollis P., Tulsa, Okla. Apparatus for treating fresh petroleum. 1,471,705; Oct. 23.
Porter, Louis N. (See Porter, Winfred S., assignor.)
Porter, Winfred S., assignor of one-half to L. N. Porter, Blair, Nebr. Incubator. 1,471,805; Oct. 23.
Post, Truman, W., New York, N. Y., assignor to Electric Auto-Lite Corporation, Toledo, Ohio. Headlight. 1,471,355; Oct. 23.
Premier Private Telephone Company. (See Kay, J., and Jennings, assignors.)
Prince-Smith, Prince, and D. Waterhouse, Keighley, England. Flier. 1,471,988; Oct. 23.
Proctor, Jennie M., Pittsburgh, Pa. Hair-straightening brush. 1,471,527; Oct. 23.
Products Protection Corporation, The. (See Smith, Franklin S., assignor.)
Quint, Michael. (See Dorney, W., and Quint.)
Raaz, Frank H., El Campo, Tex. Plow. 1,471,706; Oct. 23.
Rangnow Brothers. (See Rangnow, Otto, assignor.)
Rangnow, Otto, assignor to himself and Rangnow Brothers, Philadelphia, Pa. Tray for wardrobe trunks. 1,471,806; Oct. 23.
Rankin, Harry D., Oakland, assignor of seven-tenths to L. Sloss, San Francisco, Calif. Decomposing, transposing, dissolving, or rendering soluble difficultly-soluble bodies. 1,471,751; Oct. 23.
Rateau, Auguste C. E., Paris, France. Means to maintain a suitable pressure in the liquid-fuel-storage tanks of airplanes. 1,471,417; Oct. 23.
Rawcliffe, Leslie C., Foxboro, Mass. Cream extractor. 1,471,528; Oct. 23.
Raymond, Emma. (See Dyer, William H., assignor.)
Reed, Warren A., et al. (See Diehl, George M., assignor.)
Reggio, Christy, Richmond Hill, N. Y., assignor of one-half to H. C. Stockman, Englewood, N. J. Shoe and making shoes. 1,471,917; Oct. 23.
Reid, Marcellus, Cleveland, Ohio. Disk wheel. 1,471,356; Oct. 23.
Reinhold, John J., Marietta, Pa. Phonograph record. 1,471,862; Oct. 23.
Research Corporation. (See Davis, Harvey N., assignor.)
Reynolds, Joseph S., Santa Barbara, Calif. Automatic road and surface scraper. Re15,704; Oct. 23.
Reynolds, William F. R. (See Chapman, J., and Reynolds.)
Richards, Eric H., and H. B. Hutchinson, Harpenden, England. Manufacture of nitrogenous fertilizers and the utilization of nitrogen-bearing solutions. 1,471,979; Oct. 23.
Richards, John I. (See Martin, R., and Richards.)
Rieckmann, Max H., Holyoke, Mass. Coffee extractor. 1,471,752; Oct. 23.
Riegger, Hans, Berlin-Pankow, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Electrical change-over apparatus. 1,471,863; Oct. 23.
Rivet-O Manufacturing Company. (See Harris, Carl C., assignor.)
Roberts, John T., and J. C. Martin, jr., San Francisco, Calif. Forming interlocking bricks. 1,471,506; Oct. 23.
Roberts, Thomas L., jr., Pittsfield, Mass. Fare indicator. 1,471,918; Oct. 23.
Robinson, Emery M., River Rouge, Mich. Poultry feeder. 1,471,919; Oct. 23.
Robinson, Harvey J. D., Trochu, Alberta, Canada. Demountable rim for automobile wheels. 1,471,707; Oct. 23.
Rockford Showcase & Fixture Company, The. (See Michaelson, Henry G., assignor.)
Rodgers, John F., assignor of one-half to C. Hanselmann, Brooklyn, N. Y. Tuning transformer. 1,471,418; Oct. 23.
Rogers, Edbert, Flint, Mich. Shipping device. 1,471,753; Oct. 23.
Rood, Fletcher C., Walla Walla, Wash. Flushing mechanism for toilets. 1,471,920; Oct. 23.
Roosevelt, James A. and L. C., San Antonio, Tex. Filter. 1,471,807; Oct. 23.
Roosevelt, Lloyd C. (See Roosevelt, James A. and L. C.)
Root, Lemma J., Seattle, Wash. Fluid brake. 1,471,921; Oct. 23.
Rosenblum, Albert M., Chicago, Ill. Artificial tooth with anchoring means therefor. 1,471,754; Oct. 23.
Rosenwasser Bros. Inc. (See Piaser, Abraham, assignor.)
Roshon, Charles O. (See Goss, G. W., Goss, and Roshon.)
Ross, Percy, Liverpool, England. Indirect lighting. 1,471,922; Oct. 23.
Routin, Joseph L., Paris, France. Electrical apparatus for indicating and repeating movements at a distance. 1,471,708; Oct. 23.
Rountree, H. W., & Brother Trunk & Bag Co. (See Rountree, Henry W., assignor.)
Rountree, Henry W., assignor to H. W. Rountree & Brother Trunk & Bag Co., Richmond, Va. Wardrobe-trunk lock. 1,471,419; Oct. 23.
Ruben, Samuel, New York, N. Y. Electrical impulse indicator. 1,471,357; Oct. 23.
Rubin, Adolph, St. Louis, Mo. Punching machine. 1,471,571; Oct. 23.
Rumney, Fred A., Cambridge, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-inserting machine. 1,471,358; Oct. 23.
Russ, John D., assignor of one-half to W. N. Russ, Spencer, W. Va. Undercreamer. 1,471,808; Oct. 23.
Russ, Wirt N. (See Russ, John D., assignor.)
Russell-Clarke, Edward, deceased, by F. M. Russell-Clarke, executrix, London, assignor to Autokal Syndicate Limited, London, England. Calculating machine. 1,471,683; Oct. 23.
Russell-Clarke, Edward, deceased, by F. M. Russell-Clarke, executrix, London, assignor to Autokal Syndicate Limited, London, England. Calculating machine. 1,471,684; Oct. 23.
Russell-Clarke, Edward, deceased, by F. M. Russell-Clarke, executrix, London, assignor to Autokal Syndicate Limited, London, England. Calculating machine. 1,471,685; Oct. 23.
Russell-Clarke, Frances M., executrix. (See Russell-Clarke, Edward.)
Russell, Donald W., Jefferson, Iowa. Shade or curtain holding fixture. 1,472,026; Oct. 23.
Russell, Herbert O., Detroit, Mich., and C. L. Paulus, Dayton, Ohio. Automatic advance for synchronizing gun control. 1,471,359; Oct. 23.
Ruzicka, Anton, Cleveland, Ohio. Machine for making press studs or fasteners. 1,471,420; Oct. 23.
Ryan, Albert J., Cincinnati, Ohio. Felt-treating machine. 1,471,980; Oct. 23.
Rydberg, Gunnar H., Auburn, R. I. Shade shield. 1,471,572; Oct. 23.
Sacks, George P. (See White, George S., assignor.)
Saco-Lowell Shops. (See Whittier, J. K., and Curley, assignors.)
Sager, John W. (See Thronsen, S., and Sager.)
Sahl, Harry W. (See Wigness, C. R., and Sahl.)
Salyer, Harry M., Bloomfield, N. J. Pneumatic control. 1,472,027; Oct. 23.
Sanders, Robert G. (See Martel, E. J., and Sanders.)
Sangren, Harry A., assignor to American Optical Company, Southbridge, Mass. Strap fastener for eyeglasses. 1,471,360; Oct. 23.
Sargent, Arthur G., New Haven, Conn. Tire-mileage indicator. 1,471,981; Oct. 23.
Sarles, Sylvia B., Hillsboro, N. Dak. Flour sifter. 1,471,361; Oct. 23.
Sartakoff, Jack D., Long Island City, N. Y. Storage-battery filler. 1,471,362; Oct. 23.
Savage, Alfred J., Wolverton, England. Hand tool for cultivating and scarifying land. 1,471,982; Oct. 23.
Saxegaard, Andreas, Christiania, Norway. Apparatus for household cooking. 1,471,573; Oct. 23.
Saxon, Herman R., assignor, by mesne assignments, to Electric Auto-Lite Corporation, Toledo, Ohio. Non-glaring headlight. 1,471,923; Oct. 23.
Saylor, Henry A., A. S. Peck, and P. A. Dinsmoor, assignors to Lawrence Paper Manufacturing Company, Lawrence, Kans. Box-sealing machine. 1,471,924; Oct. 23.
Scarborough, Henry. (See Steere, Clarence E., assignor.)
Schaechterle, Henry, Fullerton, Nebr. Collapsible rim. 1,471,925; Oct. 23.
Schäfer, Josef, Dortmund, Germany. Recovering by-products from gases generated by the dry distillation of combustibles. 1,471,926; Oct. 23.
Schleier, Harry H., Meadows, Idaho. Automobile. 1,471,363; Oct. 23.
Schirmer, Waldo P., Lakewood, Ohio. Apparatus for dispensing liquids. 1,471,529; Oct. 23.

Schmid, George, New York, N. Y. Cuff link. 1,471,809; Oct. 23.

Schmidt, Louis A., Brooklyn, assignor to R. Hoe and Co., New York, N. Y. Folding mechanism. 1,471,755; Oct. 23.

Schmidt, Oscar F. (See Kimes, R. H., and Schmidt.)

Schoener, Herman. (See Welte, Joseph J., assignor.)

Schorrath, Edward, Milwaukee, Wis. Pliers. 1,471,531; Oct. 23.

Schrock, Roy, Enid, Okla. Letter box. 1,471,364; Oct. 23.

Schroeder, William, jr., Brooklyn, N. Y. Industrial truck. 1,471,709; Oct. 23.

Schulte, Walter H., Madison, Wis., assignor to Burgess Battery Company. Wave signaling system. 1,471,756; Oct. 23.

Schürer, Eugen, Cologne-Mulheim, Germany. Self-induction coil for loading telephone cables. 1,471,632; Oct. 23.

Schutt, Henry A., and J. N. Dunnebacke, Grand Rapids, Mich. Conveyer. 1,471,927; Oct. 23.

Schutte and Koerting Company. (See Knauf, Paul W., assignor.)

Scovill Manufacturing Company. (See Woods, Clinton E., assignor.)

Sears, Roebuck and Co. (See Lords, T. J., and Lennartz, assignors.)

Seattle-Astoria Iron Works. (See Nicholson, Niels C., assignor.)

Self Feeding Vaporizer Corporation. (See Bossi, Enea, assignor.)

Sem, Mathias O., Christiania, Norway, assignor to Det Norske Aktieselskab Elektrokemisk Industri, Christiania, Norway. Producing porous material. 1,471,421; Oct. 23.

Sentou, Camille A., and E. Jacquet, Fort Lee, N. J., assignors, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Scraping machine. 1,471,864; Oct. 23.

Shanahan, Thomas B., Rochester, N. Y. Nonglare reflector for headlights. 1,471,710; Oct. 23.

Sharp, Jefferson M., assignor to National Transit Pump & Machine Company, Oil City, Pa. Engine. 1,472,028; Oct. 23.

Shearer, Vance, New York, N. Y. Ignition timer for internal-combustion engines. 1,471,865; Oct. 23.

Shearer, William L., Omaha, Nebr., assignor to Dental Products Company, Chicago, Ill. Bone-cutting forceps. 1,471,422; Oct. 23.

Sheeler, Daniel A., Grantan, Wis. Removable mold for concrete walls. 1,471,574; Oct. 23.

Sheets, Kenney L., Mount Vernon, Wash. Cabinet. 1,471,532; Oct. 23.

Shelton, Landon C. (See Hoff, T., Shelton, and Mac Millan.)

Sherman, H. B., Manufacturing Co. (See Defibaugh, Mark A., assignor.)

Shipley, Caleb W., Cincinnati, Ohio. Belt tire. 1,471,533; Oct. 23.

Siebert, Werner, Laufenburg, Aargau, Switzerland, assignor to Nitrum Aktiengesellschaft, Zurich, Switzerland. Obtaining nitrite from nitrous fumes produced in electric-arc furnaces. 1,471,711; Oct. 23.

Siemens & Halske Aktiengesellschaft. (See Riegger, Hans, assignor.)

Simons, Andrew. (See Fosheim, A., and Simons.)

Simons, Orval G., Weldon, Tex. Automobile spindle mounting. 1,471,575; Oct. 23.

Simpson, Albert E., Bury, England. Drill. 1,471,866; Oct. 23.

Sittig, Lewis P., River Forest, Ill. Child's garden. 1,471,530; Oct. 23.

Skinner, Iva R., Hazel, N. Y. Hairpin. 1,471,576; Oct. 23.

Slaymaker, William W. (See Burnet, Carter B., assignor.)

Sloss, Louis. (See Rankin, Harry D., assignor.)

Smythe, Edwin H., Evanston, Ill. Window screen. 1,471,534; Oct. 23.

Smith, Frank W., Portland, Me. Sterilizer. 1,471,670; Oct. 23.

Smith, Franklin S., Philadelphia, Pa., assignor to The Products Protection Corporation, New York, N. Y. Treating grain in bulk by electricity. 1,471,423; Oct. 23.

Smith, George K., New York, N. Y. Oversuit or overalls. 1,471,507; Oct. 23.

Smith, Oliver P., Portland, Oreg. Bag-filling apparatus. 1,471,928; Oct. 23.

Snyder & Black, Incorporated. (See Sommers, Bela L., assignor.)

Société Anonyme pour l'Exploitation des Procédés Maurice Leblanc-Vickers. (See Leblanc, Charles L. A. M., assignor.)

Societe du Carburateur. (See Ferris, Frank E., assignor.)

Sohnle, Friedrich, Newark, N. J. Case for holding brushes. 1,471,712; Oct. 23.

Sommers, Bela L., Tuckahoe, assignor to Snyder & Black, Incorporated, New York, N. Y. Collapsible display device. 1,471,369; Oct. 23.

Soss, Arthur, Utica, Nebr. Auxiliary clutch for motor vehicles. 1,471,577; Oct. 23.

Spengler, John H., Bemidji, assignor to N. A. Addiss, Minneapolis, Minn. Collapsible box for shipment of eggs and other articles. 1,471,508; Oct. 23.

Stadniczek, John, Elizabeth, N. J. Razor strop. 1,471,713; Oct. 23.

Stearns, Harry D., San Francisco, Calif. Display and serving rack. 1,471,578; Oct. 23.

Steele, Charles W., assignor to The Miller Rubber Company, Akron, Ohio. Ball-varnishing machine. 1,471,424; Oct. 23.

Steely, Charles R., Corsicana, Tex. Advertising device. 1,471,810; Oct. 23.

Steere, Clarence E., assignor to H. Scarborough, Milwaukee, Wis. Can-filling machine. 1,471,867; Oct. 23.

Stepkal, Edward. (See Kosatka, F. V., and Stepkal.)

Stewart, Albert E., assignor to Acme Knitting Machine & Needle Company, Franklin, N. H. Needle cylinder. 1,471,633; Oct. 23.

Stewart, George A., jr. (See Kelley, E. H., and Stewart.)

Stewart-Warner Speedometer Corporation. (See Olsen, John K., assignor.)

Stewart-Warner Speedometer Corporation. (See Wheeler, Leonard H., assignor.)

Stockman, Henry C. (See Reggio, Christy, assignor.)

Stockman, Watson B., Chester, Pa. Diluting device for internal-combustion engines. 1,471,983; Oct. 23.

Sullivan Machinery Company. (See Gartin, Elmer G., assignor.)

Sutton, Harry A., and R. S. Van Atta, Dayton, Ohio. Cannon tunnel mount. 1,471,366; Oct. 23.

Svenska Aktiebolaget Gasaccumulator. (See Eskilson, Sven A., assignor.)

Swanson, Charles V., Velva, N. Dak. Ventilator. 1,471,811; Oct. 23.

Swanson, John E. (See Anderson, Carl G., assignor.)

Swartz, Charles L., Philadelphia, Pa. Dropping attachment for bottles. 1,471,868; Oct. 23.

Sweet, Ernest E., assignor, by mesne assignments, to H. H. Emmons, Detroit, Mich. Apparatus for distilling volatile impurities from the lubricating oil of internal-combustion engines. 1,471,984; Oct. 23.

Tannenberg, August O., Oakland, Calif. Process and apparatus for producing fiber from palm leaves. 1,471,535; Oct. 23.

Tatore, Paschal. (See Dolan, E. J., and Totore.)

Tedford, William L., Paris, France. Chafing plate. 1,471,425; Oct. 23.

Teevin, Andrew P., Detroit, Mich. Disk wheel. 1,471,812; Oct. 23.

Thiriot, André G., Chalons-sur-Marne, France. Casing for typewriting machines. 1,471,757; Oct. 23.

Thompson, Riley M., Pendleton, Oreg. Headlight-operating mechanism. 1,471,426; Oct. 23.

Thomson, James A., Mildura, Victoria, Australia. Foot-operated accelerator for motor vehicles. 1,471,579; Oct. 23.

Thrift, Homer C., Burkburnett, Tex. Apparatus for screwing together and unscrewing pipe joints and the like. 1,471,367; Oct. 23.

Thronsen, Sigurd, and J. W. Sager, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Semiautomatic winding machine. 1,471,634; Oct. 23.

Tillyer, Edgar D., and H. K. Parsons, assignors to American Optical Company, Southbridge, Mass. Ophthalmic lens. 1,471,368; Oct. 23.

Tiregage Valve Corporation. (See Badowski, Alfred, assignor.)

Tirometer Valve Corporation of America. (See Badowski, Alfred, assignor.)

Thomas, R., & Sons Company, The. (See Mason, A. G., and Buckley, assignors.)

Todd, William J., Denver, Colo. Lawn-cleaning machine. 1,471,929; Oct. 23.

Toledo Pipe Threading Machine Company, The. (See Vasper, William W., assignor.)

Tomkinson, Charles C. (See Ogden, R. E., and Tomkinson.)

Tower, Clarence E., New Haven, Conn. Flash-light holder. 1,471,985; Oct. 23.

Towle, James M., West Somerville, assignor of one-half to L. I. Beckwith, Boston, Mass. Automatic hose coupling. 1,471,427; Oct. 23.

Trohon, William G., East Danvers, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Bobbin-case-retaining device. 1,471,930; Oct. 23.

Trout, Harry R., Pottstown, Pa. Adjustable washtray leg. 1,471,931; Oct. 23.

Tucker, Ralph H., Los Angeles, Calif. Apparatus for ejecting fluids from wells. 1,471,758; Oct. 23.

Tucker, William E., assignor to G. X. Wendling, San Francisco, Calif. Foldable case. 1,471,428; Oct. 23.

Tullis, Harley A., Ocean Park, assignor of one-half to J. H. Kemker and one-half to W. J. Mee, Los Angeles, Calif. Locking tube for loose-leaf ledgers. 1,471,759; Oct. 23.

Turner, Harry G., Chicago, Ill. Engfaving machine. 1,471,869; Oct. 23.

Turnquist, Edwin O. (See Johnson, Sigurd W., assignor.)

Tust, Gustav, San Francisco, Calif. Ship-propelling device. 1,471,870; Oct. 23.

United Machinery Company, The. (See Leister, William H., assignor.)

United Shoe Machinery Corporation. (See Pope, Joseph H., assignor.)

United Shoe Machinery Corporation. (See Rumney, Fred A., assignor.)

United Shoe Machinery Corporation. (See Trohon, William G., assignor.)

United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)

United States Cast Iron Pipe & Foundry Company. (See Helander, Ernst G., assignor.)

Ursino, Pasquale, Seattle, Wash. Railway-track ballast grading and surfacing machine. 1,471,760; Oct. 23.

Van Atta, Robert S. (See Sutton, H. A., and Van Atta.)

Van Dorn, Herbert E., Chicago, Ill. Reinforced car end. 1,471,932; Oct. 23.

Van Dorn Iron Works Company, The. (See Barker, Percy E., assignor.)

Vanduzen, E. W. Company, The. (See Merrill, Sidney B., assignor.)

Van Etten, William V., Everett, Wash. Dirigible headlight. 1,471,635; Oct. 23.

Van Horn, William S., Cleveland, Ohio. Scraper for ironing machines. 1,471,813; Oct. 23.

Veith, Frank A., Erie, Pa. Drill device. 1,471,714; Oct. 23.

Vennes, Harald J., assignor to Western Electric Company, Incorporated, New York, N. Y. Artificial line. 1,471,636; Oct. 23.

Viola, Victor, New York, N. Y. Window cleaner. 1,471,871; Oct. 23.

Voelker, George W., Woonsocket, R. I. Attachment for suction-applying members of vacuum cloth hydro-extractors. 1,471,671; Oct. 23.

Voges, Edwin, Riesel, Tex. Insect traps. 1,471,986; Oct. 23.

Vogt, Clarence C., assignor of three-fourths to G. F. Bowman, Oakmont, and one-fourth to C. F. C. Arensberg, Pittsburgh, Pa. Mucin-dissolving agent. 1,471,987; Oct. 23.

Vosper, William W., assignor to The Toledo Pipe Threading Machine Company, Toledo, Ohio. Pipe-cutting apparatus. 1,471,872; Oct. 23.

Wade, Charles N., Paterson, N. J. Transfer-printing machine. 1,471,369; Oct. 23.

Wahl, Leo J., Sterling, Ill. Clipper. 1,471,536; Oct. 23.

Waite, Carlton K., Minneapolis, assignor to New Liberty Washing Machine Company, St. Paul, Minn. Reversing mechanism for washing machines. 1,471,873; Oct. 23.

Walker, Charles P., Columbus, Ga. Mail distributor. 1,471,370; Oct. 23.

Wallace, Harvey R., Brooklyn, assignor to Loft Incorporated, New York, N. Y. Candy-coating machine. 1,471,429; Oct. 23.

Walton, Joseph S., Los Angeles, Calif. Tire. 1,471,580; Oct. 23.

Wangersheim, Edgar A., assignor to General Lighting Fixture Co., Chicago, Ill. Lighting fixture. Des. 63,158; Oct. 23.

Wangersheim, Edgar A., assignor to General Lighting Fixture Co., Chicago, Ill. Lighting fixture. Des. 63,159; Oct. 23.

Wangersheim, Edgar A., assignor to General Lighting Fixture Co., Chicago, Ill. Lighting fixture. Des. 63,160; Oct. 23.

Wangersheim, Edgar A., assignor to General Lighting Fixture Co., Chicago, Ill. Lighting fixture. Des. 63,161; Oct. 23.

Wangersheim, Edgar A., assignor to General Lighting Fixture Co., Chicago, Ill. Lighting fixture. Des. 63,162; Oct. 23.

Warbey, Harold F. (See Brooks, Herbert C., assignor.)

Warhurst, George T. (See Barr, Edward B., assignor.)

Waterhouse, David (See Prince-Smith, P., and Waterhouse.)

Wayne Oil Tank and Pump Company. (See Wood, Carver, assignor.)

Wayne Tank & Pump Company. (See Baker, Linnaeus E., assignor.)

Weaver, Floyd C., Washington, D. C. Grinding machine. 1,471,430; Oct. 23.

Weaver, Floyd C., Washington, D. C. Grinding machine. 1,471,431; Oct. 23.

Wegner, Charles M. (See Merrill, C., and Wegner.)

Wehrli, Bruno, Kilchberg, Switzerland. Photographic-printing device. 1,471,672; Oct. 23.

Weidenbach, Herman A., Buffalo, N. Y. Rotary pump. 1,471,761; Oct. 23.

Weiford, George W., jr., Philadelphia, Pa. Device for testing electric circuits. 1,471,432; Oct. 23.

Weis, Henry T., Fairmont, W. Va. Convertible rake. 1,471,989; Oct. 23.

Weller, George L., Elyria, Ohio. Meter. 1,471,814; Oct. 23.

Welte, Joseph J., St. Paul, assignor to H. Schoener, St. Cloud, Minn. Roll writing tablet. 1,471,673; Oct. 23.

Weltner, Akos, Youngstown, Ohio. Abbreviating machine. 1,471,637; Oct. 23.

Wendling, George X. (See Tucker, William E., assignor.)

Wentz, Jere L., Passaic, N. J. Truck. 1,471,762; Oct. 23.

Wentz, Jere L., Passaic, N. J. Elevating and positioning machine. 1,471,763; Oct. 23.

Wert, Cyrus S., Kendallville, Ind. Forming faced concrete blocks. 1,471,990; Oct. 23.

Wertheimer, Leo, Buffalo, N. Y. Coffee urn. 1,471,933; Oct. 23.

West, Francis E., Alma, Mich. Camping outfit. 1,471,433; Oct. 23.

Western Electric Company. (See Hampton, Leon N., assignor.)

Western Electric Company. (See Houskeeper, William G., assignor.)

Western Electric Company. (See Johnson, Edgar D., assignor.)

Western Electric Company. (See Lundell, Alben E., assignor.)

Western Electric Company. (See Thronsen, S., and Sager, assignors.)

Western Electric Company. (See Vennes, Harald J., assignor.)

Western Electric Company. (See Whiting, Donald F., assignor.)

Westinghouse Lamp Company. (See Hageman, A. M., and Kovachy, assignors.)

Whatmough, Wilfred A. (See Keith, G., and Whatmough.)

Wheeler, John L., assignor to The Measuregraph Company, St. Louis, Mo. Resetting mechanism. 1,471,434; Oct. 23.

Wheeler, Leonard H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum feed device. 1,471,371; Oct. 23.

Wheeler, Wellington B., assignor of one-half to F. E. Gaines, Los Angeles, Calif. Dirigible-balloon drive and control. 1,471,764; Oct. 23.

White, Charles D., Norwich, Conn. Protector for spinning rings. 1,471,934; Oct. 23.

White, George S., Washington, D. C., assignor to G. P. Sacks, Bradley Hills, Md. Flush valve for milk-agitating tanks. 1,471,991; Oct. 23.

Whitehead, Thomas, Queensbury, England. Driving apparatus for ring spinning, doubling, and twisting machinery. 1,471,674; Oct. 23.

Whiting, Donald F., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,471,638; Oct. 23.

Whiting, Donald F., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,471,639; Oct. 23.

Whitmore, Charles M., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Pattern chain roll for looms. 1,471,715; Oct. 23.

Whittier, John K., and R. S. Curley, assignors to Saco-Lowell Shops, Lowell, Mass. Vertical opener for cleaning cotton. 1,471,435; Oct. 23.

Widger, Frank V., Chicago, Ill. Continuous reversing drive. 1,471,509; Oct. 23.

Wigness, Cornelius R., and H. W. Sahl, Harlan, Iowa. Motor stand. 1,471,992; Oct. 23.

Wilderson, Clinton, G., assignor to The Crescent Machine Company, Leetonia, Ohio. Mortising and boring machine. 1,471,993; Oct. 23.

Wills, Marion C., Platte City, and J. S. Daniel, Kansas City, Mo. Chain connector. 1,471,537; Oct. 23.

Willis, George M., assignor to Pines Manufacturing Company, Chicago, Ill. Radiator shutter control. 1,471,510; Oct. 23.

Wilson, Emma M., executrix. (See Wilson, James S.)

Wilson, James M. (See Bowe, Charles P., assignor.)

Wilson, James S., deceased, Chelsea, Mass.; E. M. Wilson, executrix. Circular loom. 1,472,029; Oct. 23.

Wilson, Robert E., Cambridge, Mass. Evaporating process and apparatus. 1,471,765; Oct. 23.

Wilson, William E., Akron, Ohio. Putty clip. 1,471,675; Oct. 23.

Winchester Repeating Arms Company. (See Jewett, Arthur C., assignor.)

Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stock-cutting machine. 1,471,372; Oct. 23.

Wisconsin Electric Company. (See Beach, Chester H., assignor.)

Witte, Elizabeth, administratrix. (See Witte, Louis A.)

Witte, Louis A., deceased, Metuchen Borough, N. J.; E. Witte, administratrix. Tunnel kiln. 1,471,875; Oct. 23.

Wolfe, James H., Calgary, Alberta, Canada. Stand for use in combination with a golf bag or the like. 1,471,766; Oct. 23.

Wood, Carver, assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Oil filter. 1,471,994; Oct. 23.

Wood, Helen, Cleveland, Ohio. Primary educational appliance. 1,471,437; Oct. 23.

Wood, William H., Cleveland, Ohio. Headlight for vehicles. 1,471,767; Oct. 23.

Woodward, William L., Lakewood, Ohio. Making seamless tubes rich in zinc. 1,471,373; Oct. 23.

Woods, Clinton E., assignor to Scovill Manufacturing Company, Waterbury, Conn. Phonograph. 1,471,436; Oct. 23.

Wortmann, Edward, New York, N. Y. Paper-folding machine. 1,471,874; Oct. 23.

Wright, Norman R., Easton, Pa. Let-off mechanism for looms. 1,471,438; Oct. 23.

Wright, Ray, Jackson, Miss. Seed pan. 1,471,581; Oct. 23.

Wright, Rea P., Washington, D. C., assignor to John F. Hemenway, New York, N. Y. Pressure release for clothes wringers. 1,471,640; Oct. 23.

Wright, William A., Lompoc, Calif. Hair-trimming gauge. 1,471,768; Oct. 23.

Yale & Towne Manufacturing Company, The. (See Lucke, Charles E., assignor.)

Zerby, Rayborn L. (See Kollmorgen, W. J., and Zerby.)

Zetterbaum, Sol, New York, N. Y. Route indicator. 1,471,439; Oct. 23.

Zukoski, Edmund L., St. Louis, Mo. Concrete and making same. 1,471,876; Oct. 23.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 23D DAY OF OCTOBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abbreviating machine. A. Weltner. 1,471,637; Oct. 23.
Adjustable wrench. C. A. Dies. 1,471,837; Oct. 23.
Advertising device. C. L. Kee. 1,471,665; Oct. 23.
Advertising device. C. R. Steely. 1,471,810; Oct. 23.
Aeroplane. E. L. Crozier. 1,471,327; Oct. 23.
Air and other gaseous mixtures, Separating the constituents of. H. N. Davis. 1,471,832; Oct. 23.
Air, Apparatus for rectification of. H. N. Davis. 1,471,833; Oct. 23.
Air brake. W. S. Arleskie. 1,471,815; Oct. 23.
Air cleaner. J. L. Milton. 1,471,565; Oct. 23.
Aircraft. C. S. Hall. 1,471,656; Oct. 23.
Airplanes, Means to maintain a suitable pressure in the liquid-fuel-storage tanks of. A. C. E. Rateau. 1,471,417; Oct. 23.
Alarm: *See*—
  Burglar alarm. Theft alarm.
  Door-knob alarm.
Almond bleacher and sulphur feeder. A. M. Fowler and W. H. Caulfeild. 1,471,597; Oct. 23.
Ammeter. F. W. Kaisling, jr. 1,471,849; Oct. 23.
Angle drill. S. E. Lorenz. 1,471,343; Oct. 23.
Annealing furnace. E. G. Helander. 1,471,659; Oct. 23.
Antiskid chain hook. H. E. Detwiler. 1,471,835; Oct. 23.
Armature winding. R. T. Kingsford. 1,471,851; Oct. 23.
Article holder. D. S. Morrell. 1,471,799; Oct. 23.
Ash tray. I. M. Clarke. Des. 63,152; Oct. 23.
Aspect signal, Three-. F. W. Harris. 1,471,791; Oct. 23.
Automatic train-stop and speed-control device. W. H. Kellem. 1,471,611; Oct. 23.
Auto lift. E. H. Kelley and G. A. Stewart, jr. 1,471,695; Oct. 23.
Auto wheel. O. R. Fuller. 1,471,786; Oct. 23.
Automobile. H. H. Schieler. 1,471,363; Oct. 23.
Automobile and truck bodies, Metal front for. E. B. Bourlier. 1,471,771; Oct. 23.
Automobile bed. J. S. Odom. 1,471,703; Oct. 23.
Automobile brake. V. Martire, S. Defrancisco, L. Messino, and N. Lombardo. 1,471,780; Oct. 23.
Automobile clock frame. C. Merrill and C. M. Wegner. 1,471,797; Oct. 23.
Automobile foot steering device. R. M. Fox. 1,471,393; Oct. 23.
Automobile lock. A. F. Cavanaugh. 1,471,382; Oct. 23.
Automobile lock. I. M. Eulitt. 1,471,515; Oct. 23.
Automobile lock. J. J. Lane and J. H. Groat. 1,471,742; Oct. 23.
Automobile locking device. T. W. Burghart. 1,471,447; Oct. 23.
Automobile spindle mounting. O. G. Simons. 1,471,575; Oct. 23.
Automobile step. H. D. Miller. 1,471,972; Oct. 23.
Automobile timers. W. H. Dyer. 1,471,999; Oct. 23.
Automobile towing frame. H. M. Holt. 1,472,003; Oct. 23.
Automobile valve seats, Device for facing. J. Q. Adams. 1,471,471; Oct. 23.
Automobiles, Switch mechanism for. B. D. Kunkle. 1,471,741; Oct. 23.
Bag-filling apparatus. O. P. Smith. 1,471,928; Oct. 23.
Ball-varnishing machine. C. W. Steele. 1,471,424; Oct. 23.
Balloon drive and control, Dirigible-. W. B. Wheeler. 1,471,764; Oct. 23.
Bar: *See*—
  Reach bar.
Bar construction, Temple-. S. J. Clulee. 1,472,014; Oct. 23.
Basin, Catch. J. H. Bauschard. 1,471,819; Oct. 23.
Basket, Fruit. P. J. F. Gallagher. 1,471,953; Oct. 23.
Battery-charging system. H. M. Jacobs. 1,471,897; Oct. 23.
Battery holder. M. Kammerhoff. 1,471,739; Oct. 23.
Bearing for gang saws, Sway-bar. L. Crane. 1,471,649; Oct. 23.
Beater rolls, Means for raising and lowering. T. D. Griley. 1,471,480; Oct. 23.
Bedstead construction. A. Gilder. 1,471,556; Oct. 23.
Beet topper. B. Kaczmarski. 1,471,738; Oct. 23.
Beverages from the bulk, Machine for dispensing. H. Charles and I. A. Jacobs. 1,471,945; Oct. 23.
Bicycle and the like. A. E. H. Payne. 1,471,505; Oct. 23.
Bill fold. C. A. Humphreys. 1,471,484; Oct. 23.
Binder. D. Conlan, jr. 1,471,550; Oct. 23.

Binder. J. W. Krikava. 1,472,010; Oct. 23.
Bit: *See*—
  Drill bit.
Blowpipe and soldering iron, Combined. A. Marquis. 1,471,620; Oct. 23.
Bobbin-case-retaining device. W. G. Trohon. 1,471,930; Oct. 23.
Body and limb developer. E. R. Monroe. 1,471,749; Oct. 23.
Boiler: *See*—
  Water boiler.
Boiler installation. S. E. Diescher. 1,472,030; Oct. 23.
Boilers, Low-water alarm for steam. W. A. McKeown. 1,471,564; Oct. 23.
Bolt anchor. R. E. Ogden and C. C. Tomkinson. 1,471,911; Oct. 23.
Bottle closure. G. Boggio. 1,471,937; Oct. 23.
Bottles, Dropping attachment for. C. L. Swartz. 1,471,868; Oct. 23.
Box: *See*—
  Film-roll box. Paper box.
  Letter box. Stamp-pad box.
  Mail box.
Box blanks, Form for use in making. G. Hopkins. 1,471,558; Oct. 23.
Box for shipment of eggs and other articles, Collapsible. J. H. Spangler. 1,471,508; Oct. 23.
Brake: *See*—
  Air brake. Fluid brake.
  Automobile brake.
Brake. H. W. Clark. 1,471,997; Oct. 23.
Brake band, Demountable. C. E. Carlson. 1,471,882; Oct. 23.
Brake structure. V. W. Page. 1,471,914; Oct. 23.
Brick and burnt-clay articles, Applying vitreous and waterproofing coating to. J. H. Hines. 1,471,792; Oct. 23.
Bricks, Forming interlocking. J. T. Roberts and J. C. Martin, jr. 1,471,506; Oct. 23.
Brush, Hair-straightening. J. M. Proctor. 1,471,527; Oct. 23.
Brush-holding case. F. Sohnle. 1,471,712; Oct. 23.
Brush, Rotary. G. F. Eckart. 1,471,782; Oct. 23.
Brush, Rotary. V. A. Miller. 1,471,748; Oct. 23.
Burglar alarm. C. L. Graef. 1,471,843; Oct. 23.
Burner: *See*—
  Liquid-fuel burner.
Buttonhole strip, Waistband. I. Heller. 1,471,604; Oct. 23.
Cabinet. T. B. C. Evans. 1,471,594; Oct. 23.
Cabinet. K. L. Sheets. 1,471,532; Oct. 23.
Cake-icing device. F. C. Cockbill and J. H. V. Grimes. 1,472,022; Oct. 23.
Calculating machine. E. Russell-Clarke. 1,471,683; Oct. 23.
Calculating machine. E. Russell-Clarke. 1,471,684–5; Oct. 23.
Calculator, Time. S. R. Lamb. 1,471,341; Oct. 23.
Calendar, Coin-controlled. G. M. Diehl. 1,471,836; Oct. 23.
Camping outfit. F. E. West. 1,471,433; Oct. 23.
Candy-coating machine. H. R. Wallace. 1,471,429; Oct. 23.
Can-filling machine. C. E. Steere. 1,471,867; Oct. 23.
Can opener. A. R. Neff. 1,471,857; Oct. 23.
Canoe-propelling device. S. Mierzwinski. 1,471,747; Oct. 23.
Cannon tunnel mount. H. A. Sutton and R. S. Van Atta. 1,471,366; Oct. 23.
Carbide container. E. Israel. 1,471,793; Oct. 23.
Carbonizing compound and making and using it. S. B. Mathewson and W. K. Jamison. 1,471,563; Oct. 23.
Car end, Reinforced. H. E. Van Dorn. 1,471,932; Oct. 23.
Car-spring mechanism, Motor-. N. S. McNab. 1,471,622; Oct. 23.
Cars, Changeable exhibitor for. D. A. Kleiman. 1,472,008; Oct. 23.
Carrier: *See*—
  Parcel carrier.
Case: *See*—
  Brush-holding case. Foldable case.
  Display case. Match case.
Caster. W. F. Herold. 1,471,600; Oct. 23.
Cell, Dry. A. C. Jewett. 1,471,486; Oct. 23.

Cement batch box, carrier, and dump. J. W. Madigan. 1,471,403; Oct. 23.
Chain connector. M. C. Wills and J. S. Daniel. 1,471,537; Oct. 23.
Chair: *See*—
  Convertible chair. Rail chair.
Charge-forming device. C. H. Hallauer. 1,471,557; Oct. 23.
Chisel, Cold. R. J. Harmon. 1,471,461; Oct. 23.
Chuck, Magnetic. H. E. Morton. 1,471,624; Oct. 23.
Circuit-closing switch, Intermittent. J. M. Bayot. 1,471,512; Oct. 23.
Clamp: *See*—
  Rail clamp. Railway-switch-point clamp.
Clamping and supporting tool. E. A. Davis. 1,471,593; Oct. 23.
Clarifier, Liquid. E. E. La Duke. 1,471,614; Oct. 23.
Clay-working machinery. R. H. McElroy. 1,471,405; Oct. 23.
Cleaner: *See*—
  Air cleaner. Window cleaner.
Climbing structure. S. Hinton. 1,471,465; Oct. 23.
Clip: *See*—
  Putty clip
Clipper. L. J. Wahl. 1,471,536; Oct. 23.
Clock and letter balance, Combined. G. Günther. 1,471,956; Oct. 23.
Clothes drier. G. F. De Grasse. 1,471,328; Oct. 23.
Clothes wringers, Pressure release for. R. P. Wright. 1,471,640; Oct. 23.
Clutch, Hydraulic. C. N. Kahl. 1,471,338; Oct. 23.
Clutch mechanism, Friction-. J. A. Bried. 1,471,721; Oct. 23.
Coal cutter. M. S. Moore. 1,471,975; Oct. 23.
Coat and the like. H. M. Lindenthal. 1,471,902; Oct. 23.
Coffee extractor. M. H. Rieckmann. 1,471,752; Oct. 23.
Coffeepot. S. Di Trapani and J. Fecarotta. 1,471,389; Oct. 23.
Coffee roaster. C. T. Howson. 1,471,663; Oct. 23.
Coffee urn. L. Wertheimer. 1,471,933; Oct. 23.
Color dropper. C. H. Hornbeck. 1,471,731; Oct. 23.
Compressor. E. C. Beam. 1,471,820; Oct. 23.
Concrete and making same. E. L. Zukoski. 1,471,876; Oct. 23.
Concrete blocks, Forming faced. C. S. Wert. 1,471,900; Oct. 23.
Concrete building. W. C. Flannery. 1,471,841; Oct. 23.
Concrete mold, Collapsible. A. H. Evans. 1,471,951; Oct. 23.
Concrete walls, Removable mold for. D. A. Sheeler. 1,471,574; Oct. 23.
Condensers, Apron roughener for. D. O. Pease. 1,471,414; Oct. 23.
Conductor support. H. P. Chandler. 1,471,545–6; Oct. 23.
Containers. G. J. Mulligan. 1,471,910; Oct. 23.
Containers, Display cover for. F. Eagle. 1,471,781; Oct. 23.
Containers, Making. C. T. Ford. 1,471,952; Oct. 23.
Controls, Locking means for accumulator. F. W. Bernau. 1,471,770; Oct. 23.
Convertible chair. F. W. Marheine. 1,471,495; Oct. 23.
Convertible rake. H. T. Weis. 1,471,989; Oct. 23.
Conveyer. H. A. Schutt and J. N. Dunnebacke. 1,471,927; Oct. 23.
Cooking apparatus for gas, liquid fuel, or electricity. S. A. Eskilson. 1,471,840; Oct. 23.
Cooking, Apparatus for household. A. Saxegaard. 1,471,573; Oct. 23.
Cooler: *See*—
  Milk cooler.
Coupling: *See*—
  Hose coupling. Shaft coupling.
Coupling. J. H. McCloy. 1,471,520; Oct. 23.
Cores, Applying cord fabric to. T. P. Little. 1,471,905; Oct. 23.
Corn husker and the like. A. R. Keeler. 1,471,898; Oct. 23.
Corn-husking machine. W. H. Leister. 1,471,616; Oct. 23.
Cotton, Vertical opener for cleaning. J. K. Whittier and R. S. Curley. 1,471,435; Oct. 23.
Crate or case, Collapsible. A. Moulton. 1,471,524; Oct. 23.
Cream extractor. L. C. Rawcliffe. 1,471,528; Oct. 23.
Creams and the like, Container for toilet. W. B. James. 1,471,735; Oct. 23.
Cuff link. G. Schmid. 1,471,809; Oct. 23.
Cuff, Soft. A. A. Fournier. 1,471,596; Oct. 23.
Culinary device. J. Gomez. 1,471,727; Oct. 23.
Cultivators, Driving and steering mechanism for. S. T. Hoener. 1,471,397; Oct. 23.
Curtain fastener. J. L. Peterson. 1,471,570; Oct. 23.
Cutter: *See*—
  Coal cutter. Hair cutter.
Cutting die. W. H. J. Fitzgerald. 1,471,653; Oct. 23.
Cutting machine, Stock-. E. E. Winkley. 1,471,372; Oct. 23.
Cutting or dressing machines, Workholder for. H. A. Herr. 1,471,333; Oct. 23.
Cylinder, Needle. A. E. Stewart. 1,471,633; Oct. 23.
Decomposing, transposing, dissolving, or rendering soluble difficultly-soluble bodies. H. D. Rankin. 1,471,751; Oct. 23.
Derrick, J. E. Larson. 1,471,853; Oct. 23.
Derrick, Revolving telescoping. W. D. Miller. 1,471,971; Oct. 23.
Die: *See*—
  Cutting die.
Die press. L. Nelson. 1,471,858; Oct. 23.
Dies, Making. C. G. Anderson. 1,471,472; Oct. 23.
Dies, Method and apparatus for lubricating punching. H. Miller. 1,471,669; Oct. 23.
Differential. C. Andrade, jr. 1,471,642; Oct. 23.
Differential. V. W. Page. 1,471,915; Oct. 23.
Disk wheel. M. Reid. 1,471,356; Oct. 23.
Disk wheel. A. P. Teevin. 1,471,812; Oct. 23.
Display and serving rack. H. D. Stearns. 1,471,578; Oct. 23.
Display case. F. H. Mix. 1,471,974; Oct. 23.
Display device, Collapsible. B. I. Sommers. 1,471,365; Oct. 23.
Display racks, Window and showcase. L. E. Miller. 1,471,909; Oct. 23.
Display stand. M. Hopper. 1,471,334; Oct. 23.
Distributing apparatus. J. H. Pope. 1,471,354; Oct. 23.
Ditching machine. W. E. McCain. 1,471,498; Oct. 23.
Door and window stop. K. J. Knudsen. 1,471,852; Oct. 23.
Door check and closer. C. E. Lucke. 1,471,744; Oct. 23.
Door-knob alarm. C. L. Graef. 1,471,844; Oct. 23.
Door opener, Electric. F. C. Ernst. 1,471,455; Oct. 23.
Dough mixer. I. A. Parry. 1,471,629; Oct. 23.
Drier: *See*—
  Clothes drier.
Drill: *See*—
  Angle drill.
Drill. A. E. Simpson. 1,471,866; Oct. 23.
Drill bit, Rotary. R. O. Pickin. 1,471,526; Oct. 23.
Drill device. F. A. Veith. 1,471,714; Oct. 23.
Drill shank and sleeve socket. A. A. Mulac. 1,471,702; Oct. 23.
Drilling machine. B. Lippis. 1,471,904; Oct. 23.
Drive and coaster-brake construction. J. Baisi. 1,471,538; Oct. 23.
Drive, Continuous reversing. F. V. Widger. 1,471,509; Oct. 23.
Driving light, War-zone. H. P. Gage. 1,471,842; Oct. 23.
Dropper: *See*—
  Color dropper.
Drying forms, Length-determining device for. G. O. Morton. 1,471,501; Oct. 23.
Drying machine. B. A. Parkes. 1,471,803; Oct. 23.
Dye, Blue sulphur. W. A. Manss. 1,471,854; Oct. 23.
Dyeing and otherwise treating yarn with fluids, Rotary perforated beam apparatus for. R. S. Heap. 1,471,658; Oct. 23.
Educational appliance, Primary. H. Wood. 1,471,437; Oct. 23.
Electric circuits, Device for testing. G. W. Welford, jr. 1,471,432; Oct. 23.
Electric-fixture canopy. M. J. Lubow. 1,471,494; Oct. 23.
Electric heater. A. N. Otis. 1,471,913; Oct. 23.
Electric machines, Commutator for dynamo. L. E. Koos. 1,472,023; Oct. 23.
Electric motor, Reciprocating. G. Mazza. 1,471,698; Oct. 23.
Electric-motor terminal connection. M. A. Defibaugh. 1,471,834; Oct. 23.
Electric power device. W. C. Hahne. 1,471,957; Oct. 23.
Electric switch. J. F. Lindberg. 1,471,903; Oct. 23.
Electric switch. M. A. Persson. 1,471,631; Oct. 23.
Electrical apparatus for indicating and repeating movements at a distance. J. L. Routin. 1,471,708; Oct. 23.
Electrical apparatus, Radiating casing for. M. L. Elder. 1,471,888; Oct. 23.
Electrical change-over apparatus. H. Riegger. 1,471,863; Oct. 23.
Electrical impulse indicator. S. Ruben. 1,471,357; Oct. 23.
Electricity counter. K. R. Ihamuotila. 1,471,664; Oct. 23.
Electrode, Welding. J. P. Copland. 1,471,326; Oct. 23.
Elevating and positioning machine. J. L. Wentz. 1,471,763; Oct. 23.
Elevator: *See*—
  Lumber elevator.
Embroidering machine, Hand. F. Fischli. 1,471,689; Oct. 23.
Engine: *See*—
  Internal-combustion engine.
Engine. J. M. Sharp. 1,472,028; Oct. 23.
Engine, Balancing disturbing forces and couples which are produced in a reciprocating. C. L. A. M. Leblanc. 1,472,012; Oct. 23.
Engine starter, Field. C. P. Breese. 1,471,379; Oct. 23.
Engines, Carburation of air for internal-combustion. G. Hamilton-Grapes. 1,471,599; Oct. 23.
Engines, Charge-condition apparatus for internal-combustion. W. J. Giese. 1,471,598; Oct. 23.
Engines, Diluting device for internal-combustion. W. B. Stockman. 1,471,983; Oct. 23.
Engines, Electrical ignition system for internal-combustion. J. L. Milton. 1,471,345; Oct. 23.

Engines, Ignition timer for internal-combustion. V. Shearer. 1,471,865; Oct. 23.
Engines, Intake manifold for internal-combustion. E. Bossi. 1,471,822; Oct. 23.
Engines, Manifold mixer for gas. G. Palizza. 1,471,704; Oct. 23.
Engraving machine. H. G. Turner. 1,471,869; Oct. 23.
Ensilage follower. F. W. Bright. 1,471,940; Oct. 23.
Envelopes and the like, Moistener for. E. E. Jenne. 1,472,022; Oct. 23.
Envelopes, wrappers, and the like, Machine for applying adhesive medium to. H. C. Brooks. 1,471,722; Oct. 23.
Etching compound. A. M. Hageman and J. M. Kovachy. 1,471,466; Oct. 23.
Evaporating process and apparatus. R. E. Wilson. 1,471,765; Oct. 23.
Excavator. W. Dorney and M. Quint. 1,471,887; Oct. 23.
Extractor: *See*—
Coffee extractor. Cream extractor.
Eye shade. S. Mahlmann. 1,471,967; Oct. 23.
Eye protector. H. Malcom. 1,471,562; Oct. 23.
Eyeglasses, Strap fastener for. H. A. Sangren. 1,471,360; Oct. 23.
Fabrics, Machine for applying reenforcing filaments to. P. T. Jackson and C. H. Howard. 1,472,021; Oct. 23.
Fan blower. P. W. Knauf. 1,471,559; Oct. 23.
Fare indicator. T. L. Roberts, jr. 1,471,918; Oct. 23.
Fastener-inserting machine. F. A. Rumney. 1,471,358; Oct. 23.
Fastener, Separable. F. S. Carr. 1,471,828; Oct. 23.
Feeder. A. J. Hartley. 1,471,894; Oct. 23.
Feeder, Poultry. E. M. Robinson. 1,471,919; Oct. 23.
Felt-treating machine. A. J. Ryan. 1,471,980; Oct. 23.
Fertilizers and the utilization of nitrogen-bearing solutions, Manufacture of nitrogenous. E. H. Richards and H. B. Hutchinson. 1,471,979; Oct. 23.
Fiber from palm leaves, Process and apparatus for producing. A. O. Tannenberg. 1,471,535; Oct. 23.
Fiber sheets, Forming curved bodies from. A. K. Longren. 1,471,900; Oct. 23.
Filing system. W. H. Holmes. 1,472,020; Oct. 23.
Film-roll box. J. S. Greene. 1,471,728; Oct. 23.
Filter. J. A. and L. C. Roosevelt. 1,471,807; Oct. 23.
Filter, Oil. C. Wood. 1,471,994; Oct. 23.
Fire extinguisher. G. T. Pearsons. 1,471,750; Oct. 23.
Fire-hose rack. W. McClintock. 1,471,499; Oct. 23.
Fish-dressing machine. N. C. Nicholson. 1,471,567; Oct. 23.
Fishing reel. C. A. Boyer. 1,471,377; Oct. 23.
Flash-light holder. C. E. Tower. 1,471,985; Oct. 23.
Flier. P. Prince-Smith and D. Waterhouse. 1,471,988; Oct. 23.
Fluid brake. L. J. Root. 1,471,921; Oct. 23.
Fluid-pressure motor. E. G. Gartin. 1,471,691; Oct. 23.
Fly hook. P. F. Halferty. 1,471,959; Oct. 23.
Foldable case. W. E. Tucker. 1,471,428; Oct. 23.
Folding mechanism. L. A. Schmidt. 1,471,755; Oct. 23.
Forceps, Bone-cutting. W. L. Shearer. 1,471,422; Oct. 23.
Frame: *See*—
Automobile clock frame. Automobile towing frame.
Friction-drive-controlling mechanism. M. Axilrod. 1,471,717; Oct. 23.
Fruit for canning, Apparatus for preparing. A. L. Duncan. 1,471,838; Oct. 23.
Fruit-marking machine. F. Ahlburg. 1,471,440; Oct. 23.
Fuel burners, Automatic wick adjustment for liquid. L. S. Chadwick. 1,471,541; Oct. 23.
Fuel, Motor. J. J. Murphy. 1,471,566; Oct. 23.
Fuel, Motor. W. C. Perry. 1,471,916; Oct. 23.
Fuel saver and decarbonizer. H. F. Neumeyer. 1,471,411; Oct. 23.
Fuel tank. G. W. and C. E. Goss and C. O. Roshon. 1,471,482; Oct. 23.
Fuels, Method of and means for vaporizing hydrocarbon. R. B. Hartsough. 1,471,600; Oct. 23.
Furnace: *See*—
Annealing furnace.
Furnace. A. W. Machlet. 1,471,618; Oct. 23.
Furnaces, Obtaining nitrite from nitrous fumes produced in electric arc. W. Siebert. 1,471,711; Oct. 23.
Furnaces with powdered fuel, Apparatus for firing. J. C. Brand. 1,471,681; Oct. 23.
Game apparatus. W. S. Bowman. 1,471,375; Oct. 23.
Garage or other building. S. C. Lancaster and C. O. Hjermstad. 1,472,031; Oct. 23.
Garbage receptacle, Sanitary. A. Cohen. 1,471,648; Oct. 23.
Garden, Child's. L. P. Sittig. 1,471,530; Oct. 23.
Gas-burner attachment. W. R. Gardner. 1,471,788; Oct. 23.
Gas-burners, Mixer for. H. C. Caldwell. 1,471,381; Oct. 23.
Gas cell, Electrolytic. C. F. Adams. 1,471,641; Oct. 23.
Gas, oil, and other fluids, Apparatus for conserving. J. B. Knight. 1,472,009; Oct. 23.
Gases generated by the dry distillation of combustibles, Recovering by-products from. J. Schäfer. 1,471,926; Oct. 23.
Gate-closing device. M. M. Corey. 1,471,830; Oct. 23.
Gauge: *See*—
Hair-trimming gauge. Tire stem-pressure gauge.
Tire pressure gauge.
Gear-shift mechanism. J. J. Haskin. 1,471,730; Oct. 23.
Gears or cams and their axles, Tool for assembling or disassembling. D. Miller. 1,471,502; Oct. 23.
Gin breasts, Lift for. C. R. P. Pool. 1,471,416; Oct. 23.
Glass-melting pot. C. A. Bowen. 1,471,824; Oct. 23.
Glove, Combination work. R. E. Neal. 1,471,801; Oct. 23.
Glove-drying machine. G. W. Du Nah. 1,471,652; Oct. 23.
Golf bag or the like, Stand for use in combination with a. J. H. Wolfe. 1,471,766; Oct. 23.
Golf or other games or physical exercises, Apparatus for obtaining practice in. C. Leven. 1,471,794; Oct. 23.
Gong. S. B. Merrill. 1,471,798; Oct. 23.
Gong, Electric. G. H. Bickell. 1,471,878; Oct. 23.
Governor, Vacuum. R. Burchett. 1,471,380; Oct. 23.
Grain in bulk by electricity, Treating. F. S. Smith. 1,471,423; Oct. 23.
Granular materials, Agglomerating or cementing. T. M. Chance. 1,471,645–6; Oct. 23.
Granular materials, Composition of matter produced by agglomerating or cementing. T. M. Chance. 1,471,647; Oct. 23.
Grinding machine. F. C. Weaver. 1,471,430–1; Oct. 23.
Grinding machine, Portable. R. W. Opfel. 1,471,412; Oct. 23.
Gripper. C. W. Burroughs. 1,471,448; Oct. 23.
Guide, Tourist's. P. P. Gobberdiel. 1,471,481; Oct. 23.
Gun, Breech-loading single-barrel. F. Le Fever. 1,471,900; Oct. 23.
Gun control, Automatic advance for synchronising. H. O. Russell and C. L. Paulus. 1,471,359; Oct. 23.
Gun, Grease. A. J. Farmer. 1,471,330; Oct. 23.
Gun mount with remote control. H. B. Inglis. 1,471,398; Oct. 23.
Guns, Charging device for machine. C. L. Paulus. 1,471,348; Oct. 23.
Hair curlers and employed in the art of undulation, Method and means for squeezing tubes of paper containing. L. Agostini. 1,471,582; Oct. 23.
Hair cutter, Safety. J. L. McElroy. 1,471,970; Oct. 23.
Hairpin. F. V. Kosatka and E. Stepkal. 1,471,612; Oct. 23.
Hairpin. I. R. Skinner. 1,471,576; Oct. 23.
Hair-trimming gauge. W. A. Wright. 1,471,768; Oct. 23.
Hair-waving appliance. R. Bové. 1,471,880–1; Oct. 23.
Harrow, Rotary. A. W. Guild. 1,471,692; Oct. 23.
Hay press. T. V. Kellebrew. 1,471,390; Oct. 23.
Headlight. T. W. Post. 1,471,355; Oct. 23.
Headlight, Dirigible. W. V. Van Etten. 1,471,635; Oct. 23.
Headlight, Dual supplementing. L. Bell. 1,471,679; Oct. 23.
Headlight for vehicles. W. H. Wood. 1,471,767; Oct. 23.
Headlight lens. E. Lyndon. 1,471,668; Oct. 23.
Headlight, Nonglaring. H. R. Saxon. 1,471,923; Oct. 23.
Headlight-operating mechanism. R. M. Thompson. 1,471,426; Oct. 23.
Headlights, Focusing and directing. L. O. Grondahl. 1,471,790; Oct. 23.
Headlights, Nonglare reflector for. T. B. Shanahan. 1,471,710; Oct. 23.
Headwear. L. H. Ensten. 1,471,724; Oct. 23.
Heat, Method of, and system for utilizing. A. Besta and H. Lent. 1,471,821; Oct. 23.
Heater: *See*—
Electric heater.
Heater. A. H. Mallery. 1,471,519; Oct. 23.
Hedge trimmer. J. C. Dettra. 1,471,453; Oct. 23.
Heel. H. B. Light. 1,471,966; Oct. 23.
Hemmer and tucker, Combined. E. M. Beadle. 1,471,719; Oct. 23.
Hinge, Utensil. C. T. Carlson. 1,471,776; Oct. 23.
Hook: *See*—
Antiskid-chain hook. Fly hook.
Hook. E. E. Minder. 1,471,973; Oct. 23.
Horseshoe and calk therefor. J. Paff. 1,472,025; Oct. 23.
Horseshoe, Nailless. J. R. Carman. 1,471,827; Oct. 23.
Hose coupling, Automatic. J. M. Towle. 1,471,427; Oct. 23.
Hose rack. W. McClintock. 1,471,500; Oct. 23.
Hub-flange seats, Apparatus for truing. W. L. Mantha. 1,471,795; Oct. 23.
Illuminated indicator. P. A. Johnson. 1,471,337; Oct. 23.
Incubator. W. S. Porter. 1,471,805; Oct. 23.
Indicator: *See*—
Electrical-impulse indicator. Route indicator.
Fare indicator. Tire-mileage indicator.
Illuminated indicator.
Indicator and signal. H. L. Opsahl. 1,471,625; Oct. 23.
Indicator with mechanical transmission to a distance. L. A. M. Corset. 1,471,831; Oct. 23.
Ink composition. R. R. Dement. 1,471,884; Oct. 23.
Ink, Printing. W. J. McElroy and J. Clarke. 1,471,746; Oct. 23.
Insect guard. A. Parrella. 1,471,630; Oct. 23.
Insect-repellent composition. H. Loudin. 1,471,344; Oct. 23.
Insect trap. E. Voges. 1,471,986; Oct. 23.
Insulating material, Heat-. H. H. Hindshaw. 1,471,846; Oct. 23.

Insulating receptacle and apparatus for supporting and finishing the same, Heat and cold. J. E. Hitch. 1,472,019; Oct. 23.
Internal-combustion engine. L. Atwood. 1,471,321; Oct. 23.
Internal-combustion engine. F. M. Emery. 1,471,783; Oct. 23.
Internal-combustion engine. H. H. Gove. 1,471,789; Oct. 23.
Internal-combustion engine. P. A. Holliday. 1,471,847; Oct. 23.
Internal-combustion and fluid-pressure engine. R. E. Pelterie. 1,471,860; Oct. 23.
Internal-combustion engine. W. H. Legate. 1,471,743; Oct. 23.
Internal-combustion engine. J. L. Martin, jr. 1,471,497; Oct. 23.
Internal-combustion engine. A. Mertz. 1,471,408; Oct. 23.
Iron and steel, Desulphurization of. H. Koppers. 1,471,401; Oct. 23.
Ironing machines, Scraper for. W. S. Van Horn. 1,471,813; Oct. 23.
Jar holder. W. H. Platt. 1,471,415; Oct. 23.
Jar wrench, Fruit-. A. Pihl. 1,471,353; Oct. 23.
Joint: *See*—
Rail joint.
Kettles by zones, Temperature control of. J. G. Lehman. Re15,703; Oct. 23.
Kiln, Dry. J. F. Hanrahan. 1,471,602; Oct. 23.
Kiln, Tunnel. L. A. Witte. 1,471,875; Oct. 23.
Knife for trimming shoe soles, Safety. O. Erickvam. 1,471,889; Oct. 23.
Knitting machines, Stopping device for. H. W. Niermeyer. 1,471,802; Oct. 23.
Lace. S. H. Page. Des. 63,153–6; Oct. 23.
Lace. H. A. Phillips. Des. 63,157; Oct. 23.
Ladders, Brake for rolling. L. N. Hampton. 1,471,657; Oct. 23.
Lamp-dimmer attachment, Auto. N. C. Garwood. 1,471,395; Oct. 23.
Lamp, Electric. M. Claussen. 1,471,384; Oct. 23.
Land, Hand tool for cultivating and scarifying. A. J. Savage. 1,471,982; Oct. 23.
Lantern, Portable electric. C. B. Burnet. 1,471,682; Oct. 23.
Latch, Door. R. G. Moore. 1,471,523; Oct. 23.
Lawn-cleaning machine. W. J. Todd. 1,471,929; Oct. 23.
Ledgers, Locking tube for loose-leaf. H. A. Tullis. 1,471,759; Oct. 23.
Lens. A. Pellow. 1,471,351; Oct. 23.
Lens, Ophthalmic. E. D. Tillyer and H. K. Parsons. 1,471,368; Oct. 23.
Letter box. R. Schrock. 1,471,364; Oct. 23.
Lever, Stop. F. E. Ferris. 1,472,000; Oct. 23.
Lifeboats and other similar craft, Releasing device for. R. C. Edwards. 1,471,552; Oct. 23.
Light: *See*—
Driving light.
Light and horn switch, Combined. F. T. Cope. 1,471,778; Oct. 23.
Lighting effects, Device for demonstrating. W. H. Lemingwell. 1,471,615; Oct. 23.
Lighting fixture. E. A. Wangersheim. Des. 63,158–62; Oct. 23.
Lighting fixtures, Globe holder for. W. Lumley. 1,471,561; Oct. 23.
Lighting, Indirect. P. Ross. 1,471,922; Oct. 23.
Line, Artificial. H. J. Vennes. 1,471,636; Oct. 23.
Liquid-dispensing device. O. J. Berg. 1,471,441; Oct. 23.
Liquid-fuel burner. R. M. Kennedy. 1,471,666; Oct. 23.
Liquids, Apparatus for dispensing. W. P. Schirmer. 1,471,529; Oct. 23.
Liquids from vessels, Receptacle for removing. A. M. Demuth. 1,471,475–6; Oct. 23.
Liquids with gases, Apparatus for treating. W. E. Greenawalt. 1,471,332; Oct. 23.
Lithographing presses, Zinc-plate cylinder for offset. S. Fleming. 1,471,392; Oct. 23.
Lock: *See*—
Automobile lock. Trunk lock.
Steering-gear lock. Vehicle lock.
Lock and lock mounting. E. C. Kline. 1,471,517; Oct. 23.
Lock and lock mounting. E. C. Kline. 1,471,740; Oct. 23.
Locking device. W. E. Harris. 1,471,693; Oct. 23.
Locomotive, Four-cylinder compound. G. Baillot. 1,471,677; Oct. 23.
Loom, Circular. J. S. Wilson. 1,472,029; Oct. 23.
Looms, Let-off mechanism for. N. R. Wright. 1,471,438; Oct. 23.
Looms, Pattern-chain roll for. C. M. Whitmore. 1,471,715; Oct. 23.
Lubricating device, Cable-. A. S. Andersen. 1,471,583; Oct. 23.
Lubricator: *See*—
Vacuum lubricator.
Lumber elevator. M. Jackson. 1,471,468; Oct. 23.
Mail box. A. Koenig. 1,471,899; Oct. 23.
Mail distributor. C. P. Walker. 1,471,370; Oct. 23.
Manifold, Intake. F. Lundgren. 1,471,745; Oct. 23.
Match case. J. Oppenheim. 1,471,912; Oct. 23.
Match receptacle. F. A. Fuller. 1,471,331; Oct. 23.
Materials with gases, Apparatus for use in the treatment of pulverulent or granular. R. Martin and J. I. Richards. 1,471,619; Oct. 23.
Mats, Constructing. J. G. Bowser. 1,471,376; Oct. 23.
Measuring unbalance, Method of and means for. A. B. Clark. 1,471,383; Oct. 23.
Mechanical movements, Mechanism for synchronizing. W. H. Collier. 1,471,450; Oct. 23.
Metals from ores, Extraction of. A. T. Elliott. 1,471,514; Oct. 23.
Metals, Method and apparatus for the reduction of impurities contaminating molten. L. Jones. 1,472,006; Oct. 23.
Meter. G. L. Weller. 1,471,814; Oct. 23.
Milk-can punch. L. Hasty. 1,471,601; Oct. 23.
Milk cooler, Rapid. M. M. Cahill. 1,471,449; Oct. 23.
Milk or cream, Treating. J. T. Hanna. 1,471,460; Oct. 23.
Milking. P. A. Frimand. 1,471,394; Oct. 23.
Mixer: *See*—
Dough mixer.
Mixer. F. J. Ball. 1,471,643; Oct. 23.
Mold: *See*—
Concrete mold.
Mold form. C. C. Jones. 1,472,004; Oct. 23.
Mold plungers, Making. E. Pascucci. 1,471,804; Oct. 23.
Molding machine. W. H. De Vaney. 1,471,651; Oct. 23.
Mop head. W. E. Burtz. 1,471,942; Oct. 23.
Mortising and boring machine. C. G. Wilderson. 1,471,993; Oct. 23.
Motor: *See*—
Electric motor. Fluid-pressure motor.
Motor control, System and apparatus for. J. A. Hepperlen. 1,472,001; Oct. 23.
Motor stand. C. R. Wigness and H. W. Sahl. 1,471,992; Oct. 23.
Mouth adjuster. G. T. Epling. 1,471,839; Oct. 23.
Mucin-dissolving agent. C. C. Vogt. 1,471,987; Oct. 23.
Mulches, Machine for laying. N. B. McGuire and A. Guild. 1,471,796; Oct. 23.
Nonskidding device. W. W. Chamberlain. 1,471,544; Oct. 23.
Nozzle, Locomotive exhaust. E. B. Barr. 1,471,584; Oct. 23.
Nozzle, Sand-blast. R. G. Coburn. 1,472,015; Oct. 23.
Nut, Lock. D. C. Harris. 1,471,462; Oct. 23.
Oil burners, Automatic wick stop for. L. S. Chadwick. 1,471,540; Oct. 23.
Oil burners, Automatically-adjusted wick stop for. L. S. Chadwick. 1,471,539; Oct. 23.
Oil burners, Wick-stop mechanism for. L. S. Chadwick. 1,471,543; Oct. 23.
Oil of internal-combustion engines, Apparatus for distilling volatile impurities from the lubricating. E. E. Sweet. 1,471,984; Oct. 23.
Oil-refining device. R. C. Aland. 1,471,374; Oct. 23.
Opening switch, Automatically-. N. Krump. 1,471,490; Oct. 23.
Ore-sintering machines, Pallet mechanism for. R. L. Lloyd. 1,471,402; Oct. 23.
Orthodontic appliance. A. Fernald. 1,471,785; Oct. 23.
Outlet or junction box. J. G. Knight. 1,471,340; Oct. 23.
Oven. S. T. Holvay. 1,471,961; Oct. 23.
Oversuit or overalls. G. K. Smith. 1,471,507; Oct. 23.
Pad: *See*—
Pressing pad.
Paint-spraying apparatus. G. C. Fish and A. H. Cummings. 1,471,690; Oct. 23.
Pan: *See*—
Seed pan.
Pants presser. P. J. Arbes. 1,471,676; Oct. 23.
Paper box, Folding. H. A. Feigelman. 1,471,478; Oct. 23.
Paper-folding machine. E. Wortmann. 1,471,874; Oct. 23.
Paper-making machines and other similar machines, Speed-changing power-transmission mechanisms for. F. A. Headson. 1,471,603; Oct. 23.
Parcel carrier. C. P. Atkins. 1,471,817; Oct. 23.
Patterns, Dowel pin and cup for mounting. S. B. Phelps. 1,471,978; Oct. 23.
Petroleum, Apparatus for treating fresh. H. P. Porter. 1,471,705; Oct. 23.
Phonograph. C. E. Woods. 1,471,436; Oct. 23.
Phonograph record. J. J. Reinhold. 1,471,862; Oct. 23.
Phonograph records, Identification clip for. R. Austin. 1,471,716; Oct. 23.
Photographic-printing device. B. Wehrli. 1,471,672; Oct. 23.
Picture film, Motion-. C. J. Coberly. 1,471,592; Oct. 23.
Pineapple-trimming machine. M. O. Johnson and R. H. Lowrie. 1,471,336; Oct. 23.
Pipe-cutting apparatus. W. W. Vosper. 1,471,872; Oct. 23.
Pipe joints and the like, Apparatus for screwing together and unscrewing. H. C. Thrift. 1,471,367; Oct. 23.
Pipe wrench. E. Hakey. 1,471,958; Oct. 23.
Pipes, Device for stopping leaks in. D. B. Crockett. 1,471,386; Oct. 23.
Piston. W. H. May. 1,471,969; Oct. 23.
Piston ring. F. M. Moore. 1,471,700; Oct. 23.
Pitman rod, Self-lubricating. J. M. Axtell. 1,471,818; Oct. 23.

Plastic container, Reenforced. M. Bernstein. 1,471,680; Oct. 23.
Plate, Chafing. W. L. Tedford. 1,471,425; Oct. 23.
Pliers. E. Scherrath. 1,471,531; Oct. 23.
Plow. F. H. Raaz. 1,471,706; Oct. 23.
Pneumatic control. H. M. Salyer. 1,472,027; Oct. 23.
Poison holder for rodenta. T. H. Greenway. 1,471,954; Oct. 23.
Polygraph. C. E. Dressler. 1,472,016; Oct. 23.
Pot: *See*—
Glass-melting pot. Tea and coffee pot.
Powder-puff holder. V. Guinzburg. 1,471,729; Oct. 23.
Power presses, Safety device for. A. Plaser. 1,471,350; Oct. 23.
Power transmission. H. A. Carson. 1,471,589; Oct. 23.
Power transmission and regenerative braking, System and apparatus for. W. S. H. Hamilton and R. D. Krape. 1,471,893; Oct. 23.
Press: *See*—
Die press. Seal press.
Hay press.
Press. C. W. Irwin and N. V. D. Brock. 1,471,608; Oct. 23.
Press studs or fasteners, Machine for making. A. Ruzicka. 1,471,420; Oct. 23.
Pressing pad. C. M. Gough. 1,471,891; Oct. 23.
Printing machine, Transfer-. C. N. Wade. 1,471,369; Oct. 23.
Printing machines, Method of and means for preparing cylinders of offset. W. C. Huebner. 1,471,895; Oct. 23.
Printing presses, Automatic impression tripper for. W. C. Chesbro. 1,471,946; Oct. 23.
Producing porous material. M. O. Sem. 1,471,421; Oct. 23.
Production processes, Means for controlling. L. Logan. 1,471,342; Oct. 23.
Propeller. S. W. Carter. 1,471,590; Oct. 23.
Propeller for vessels. B. Icre. 1,471,896; Oct. 23.
Protective device. H. G. French. 1,471,890; Oct. 23.
Protective device. J. F. Joy. 1,471,610; Oct. 23.
Publication, Periodical. W. J. Kollmorgen and R. L. Zerby. 1,471,489; Oct. 23.
Pulley, Change-speed cone. C. L. Ginty. 1,471,726; Oct. 23.
Pump jack and speed-reducing mechanism, Combination. C. Holmdahl. 1,471,606; Oct. 23.
Pump or prime mover. F. L. Antisell. 1,471,320; Oct. 23.
Pump, Rotary. H. A. Weidenbach. 1,471,761; Oct. 23.
Pump, Vacuum. W. G. Houskeeper. 1,471,661–2; Oct. 23.
Punching machine. A. Rubin. 1,471,571; Oct. 23.
Putty clip. W. E. Wilson. 1,471,675; Oct. 23.
Puzzle. M. S. Chambers. 1,471,943; Oct. 23.
Rack: *See*—
Display and serving rack. Hose rack.
Fire-hose rack.
Radiator shutter control. G. M. Willis. 1,471,510; Oct. 23.
Radiotelegraphy. F. S. McCullough. 1,471,406; Oct. 23.
Rail chair. C. F. Bowe. 1,471,772; Oct. 23.
Rail clamp, Guard-. R. D. Gallagher. 1,471,555; Oct. 23.
Rail connection, Hold-tight. F. O. Heltzel. 1,472,018; Oct. 23.
Rail joint. P. A. Kourtzman. 1,471,613; Oct. 23.
Railway-crossing signal. C. C. Atkinson. 1,471,877; Oct. 23.
Railway crossings, Shock absorber for. J. Nelson. 1,471,701; Oct. 23.
Railway equipment. H. S. Daubert. 1,471,452; Oct. 23.
Railway switch-point clamp. B. F. Drenning. 1,471,950; Oct. 23.
Railway-track ballast grading and surfacing machine. P. Ursino. 1,471,760; Oct. 23.
Raising and lowering material, Apparatus for. E. J. Dolan and P. Tatore. 1,471,454; Oct. 23.
Rake: *See*—
Convertible rake.
Rake. B. E. Laas. 1,471,964; Oct. 23.
Razor strop. J. Stadniczek. 1,471,713; Oct. 23.
Reach bar, Adjustable. J. A. Morey. 1,471,346; Oct. 23.
Reboring machine, Cylinder-. R. W. Gage. 1,471,458; Oct. 23.
Receptacle or container. J. B. Henry. 1,471,960; Oct. 23.
Reel: *See*—
Fishing reel.
Reflector and lamp support. R. S. Bradley. 1,471,939; Oct. 23.
Refrigerator. A. Fosheim and A. Simons. 1,471,516; Oct. 23.
Refrigerator. J. S. Meyer. 1,471,503; Oct. 23.
Refrigeration, Process and apparatus for multiple-stage compression for. G. A. Horne. 1,471,732; Oct. 23.
Resetting mechanism. J. L. Wheeler. 1,471,434; Oct. 23.
Retort, Shale. W. A. Lamb. 1,471,492; Oct. 23.
Rheostat. R. R. Dunlop. 1,471,391; Oct. 23.
Rim, Collapsible. H. Schaechterle. 1,471,925; Oct. 23.
Rim, Demountable. E. E. Frederick. 1,471,595; Oct. 23.
Ring: *See*—
Piston ring.
Ring spinning, doubling, and twisting machinery, Driving apparatus for. T. Whitehead. 1,471,674; Oct. 23.
Riveting tool. T. Hoff, L. C. Shelton, and A. MacMillan. 1,471,605; Oct. 23.
Roaster: *See*—
Coffee roaster.
Rod: *See*—
Pitman rod.
Roofing machine. T. J. Lords and G. P. Lennartz. 1,471,493; Oct. 23.
Route indicator. S. Zetterbaum. 1,471,439; Oct. 23.
Rubber footwear, Forming outsoles for. S. W. Bourn. 1,471,587; Oct. 23.
Rubber footwear, Machine for making outsoles for. S. W. Bourn. 1,471,588; Oct. 23.
Sadiron, Electric. W. C. Boswell. 1,471,823; Oct. 23.
Sash-cord fastener. C. Bonham. 1,471,938; Oct. 23.
Sash, Window. W. E. Holt. 1,472,002; Oct. 23.
Saw-gumming machine. R. W. McLean. 1,472,013; Oct. 23.
Saws, Suspension jack for gang. L. Crane. 1,471,650; Oct. 23.
Scale. O. M. Kirlin. 1,471,518; Oct. 23.
Scaffold, Portable. S. W. Johnson. 1,471,848; Oct. 23.
Scraper. G. W. Packer. 1,471,627; Oct. 23.
Scraper, Automatic road and surface. J. S. Reynolds. Re15,704; Oct. 23.
Scraping machine. C. A. Sentou and E. Jacquet. 1,471,864; Oct. 23.
Screen: *See*—
Window screen.
Screen-door insect brush and destroyer. F. P. Bessette. 1,471,585; Oct. 23.
Screen holder. H. N. Bowen. 1,471,773; Oct. 23.
Seal press. F. H. Eyman. 1,471,687–8; Oct. 23.
Sealing machine, Box-. H. A. Saylor, A. S. Peck and P. A. Dinsmoor. 1,471,924; Oct. 23.
Sealing means. W. M. Brooks. 1,471,445; Oct. 23.
Seat or bracket, Shingling. C. Cornelius. 1,471,947; Oct. 23.
Seed pan. R. Wright. 1,471,581; Oct. 23.
Sewing machine. J. Bingham. 1,471,720; Oct. 23.
Sewing machine, Bead-. J. A. Groehli. 1,471,892; Oct. 23.
Shade or curtain holding fixture. D. W. Russell. 1,472,026; Oct. 23.
Shaft coupling, Cushion. M. R. Karge. 1,471,488; Oct. 23.
Shafts, Synchronizing of. H. Lemp. 1,471,901; Oct. 23.
Shield, Shade. G. H. Rydberg. 1,471,572; Oct. 23.
Shingle, Ridge or hip flexible. A. A. Griswold. 1,471,396; Oct. 23.
Ship-propelling device. G. Tust. 1,471,870; Oct. 23.
Ships, Machine for the cleansing of the bottoms and sides of floating. H. Arentz. 1,471,935; Oct. 23.
Shipping device. E. Rogers. 1,471,753; Oct. 23.
Shirt construction. A. A. Fournier. 1,471,457; Oct. 23.
Shock absorber. J. Dahlstrom. 1,471,474; Oct. 23.
Shock absorber, Vehicle. J. V. Martin. 1,471,968; Oct. 23.
Shoe and making the same. S. Evans. 1,472,017; Oct. 23.
Shoe and making shoes. C. Reggio. 1,471,917; Oct. 23.
Shoe-cleaning device. M. Bzowy. 1,471,826; Oct. 23.
Shoe laces, Metal tip for. F. Lewis. 1,471,965; Oct. 23.
Shoes, Device for use in shining. A. L. Aste. 1,471,816; Oct. 23.
Show case. H. G. Michaelson. 1,471,908; Oct. 23.
Sifter, Flour-. S. B. Sarles. 1,471,361; Oct. 23.
Signal: *See*—
Railway-crossing signal. Three-aspect signal.
Signals and the location of submarine objects, Production of submarine. C. Chilowsky and P. Langevin. 1,471,547; Oct. 23.
Signaling circuit. E. Dietze. 1,471,388; Oct. 23.
Signaling circuit. W. H. Martin. 1,471,404; Oct. 23.
Signaling system and operating the same. E. D. Johnson. 1,471,335; Oct. 23.
Silicate and preparing the same, Base-exchange. Y. K. Lee. 1,472,011; Oct. 23.
Silk and making the same, Artificial. C. C. Meigs. 1,471,699; Oct. 23.
Silk, Manufacture of viscose. E. Bronnert. 1,471,513; Oct. 23.
Snubber. G. W. Langford. 1,471,560; Oct. 23.
Soap-dispensing device. A. W. McCord. 1,471,621; Oct. 23.
Socket wrench. A. A. Crimp. 1,471,451; Oct. 23.
Spark plug. M. J., M. M., and J. Downey. 1,471,390; Oct. 23.
Spark-plug tester. W. P. Moore. 1,471,976; Oct. 23.
Spectacle blanks, Process and apparatus for producing. F. Gelstharp. 1,471,725; Oct. 23.
Spectacles. J. M. Bailey. 1,471,996; Oct. 23.
Speed recorder. J. F. Ohmer, jr. 1,471,977; Oct. 23.
Speed transmissions, Variable-. D. W. Driscoll. 1,471,998; Oct. 23.
Spinning rings, Protector for. C. D. White. 1,471,934; Oct. 23.
Spring and spring-bar bumper, Combined compression. J. K. Olsen. 1,471,568; Oct. 23.

Spring shackle. H. W. Bell and H. L. Hoyt, jr. 1,471,473; Oct. 23.
Spring shackle. E. E. Hendricks. 1,471,845; Oct. 23.
Stair. W. L. Pattison. 1,471,569; Oct. 23.
Stamp-pad box. C. C. Harris. Re15,702; Oct. 23.
Stand: *See*—
Display stand. Motor stand.
Steel manufacture. F. J. Griffiths and D. N. A. Blacet. 1,471,655; Oct. 23.
Steering-gear lock. C. L. Mutrix. 1,471,409; Oct. 23.
Steering mechanism. E. R. Fell. 1,471,553; Oct. 23.
Sterilizer. F. W. Smith. 1,471,670; Oct. 23.
Stopcock or valve. B. and W. Butler. 1,471,825; Oct. 23.
Stop mechanism. L. E. Baker. 1,471,995; Oct. 23.
Storage-battery filler. J. D. Sartakoff. 1,471,362; Oct. 23.
Structures, Mold for poured. I. Diamond. 1,471,387; Oct. 23.
Submarine mine. W. F. Palmer. 1,471,628; Oct. 23.
Sugar fondant, Apparatus for making. F. Kubeš. 1,471,697; Oct. 23.
Sugar, Making grape. W. B. Newkirk. 1,471,347; Oct. 23.
Suitcase. H. S. B. Critchley. 1,471,385; Oct. 23.
Surgical baker. W. S. Edmands. 1,471,329; Oct. 23.
Switch: *See*—
Electric switch. Opening switch.
Switch support. E. J. Martel and R. G. Sanders. 1,471,496; Oct. 23.
Switches, Automatic control mechanism for electric. H. T. Patton. 1,471,859; Oct. 23.
Syringe. A. Baudman. 1,471,644; Oct. 23.
Table. G. W. and A. E. Ballinger. 1,471,678; Oct. 23.
Tablet, Roll writing. J. J. Welte. 1,471,673; Oct. 23.
Tag holder. A. J. Isaacsen. 1,471,485; Oct. 23.
Tail light and license marker illuminator, Combined. D. Gacopetta. 1,471,554; Oct. 23.
Talking-machine horn. G. Hamburg. 1,471,459; Oct. 23.
Tank: *See*—
Fuel tank.
Tanks, Automatic water drain for oil. J. A. Jolly. 1,471,737; Oct. 23.
Target apparatus. E. Meininghaus. 1,471,521; Oct. 23.
Tea and coffee pot. S. Jones. 1,472,007; Oct. 23.
Telephone. J. Kay and J. Jennings. 1,471,696; Oct. 23.
Telephone cables, Self-induction coil for loading. E. Schürer. 1,471,632; Oct. 23.
Telephone-exchange system. A. E. Lundell. 1,471,617; Oct. 23.
Telephone system. D. F. Whiting. 1,471,638–9; Oct. 23.
Textile fabric, Tag for. A. C. Hummel. 1,471,483; Oct. 23.
Textile fabrics, Process and device for finishing. E. Edlich. 1,471,551; Oct. 23.
Theft alarm. C. A. Isbell. 1,471,733; Oct. 23.
Thumb protector. J. C. Cox and J. W. McClung. 1,471,948; Oct. 23.
Tin scrap and the like, Detinning. E. Kardos. 1,471,469; Oct. 23.
Tire. J. S. Walton. 1,471,580; Oct. 23.
Tire, Belt. C. W. Shipley. 1,471,533; Oct. 23.
Tire chain. P. B. Blocker. 1,471,586; Oct. 23.
Tire changer. C. A. Clark. 1,471,591; Oct. 23.
Tire-cutting implement. F. J. Curtis. 1,471,686; Oct. 23.
Tire-inflating apparatus, Pneumatic-. F. N. and G. R. Cooley. 1,471,777; Oct. 23.
Tire-mileage indicator. A. G. Sargent. 1,479,981; Oct. 23.
Tire-painting machine. J. R. Gammeter. 1,471,787; Oct. 23.
Tire pressure gage. A. Badowski. 1,471,322; Oct. 23.
Tire tread and applying the same. F. B. Converse. 1,471,829; Oct. 23.
Tire-stem pressure gage. A. Badowski. 1,471,324–5; Oct. 23.
Tire, Vehicle. J. T. Doranski. 1,471,949; Oct. 23.
Tires, Pressure gauge for pneumatic. A. Badowski. 1,471,323; Oct. 23.
Tobacco cutting and separating machine. J. H. Baker. 1,471,936; Oct. 23.
Toilet flushing mechanism. F. C. Rood. 1,471,920; Oct. 23.
Toller. T. F. Perkins. 1,471,349; Oct. 23.
Tongs, Producing oyster. C. D. Briddell. 1,471,378; Oct. 23.
Tool, Combination. A. Lagergren. 1,471,963; Oct. 23.
Toothbrush. A. M. Pachmayr. 1,471,626; Oct. 23.
Tooth with anchoring means therefor, Artificial. A. M. Rosenblum. 1,471,754; Oct. 23.
Torch, Oxyacetylene welding and cutting. T. A. Errett. 1,471,456; Oct. 23.
Torch, Welding and cutting. A. F. Jenkins. 1,471,694; Oct. 23.
Toy balloon. M. M. Dessau. 1,471,886; Oct. 23.
Toy, Floating. M. M. Dessau. 1,471,885; Oct. 23.
Trailer, Collapsible. A. G. Gleissner. 1,471,479; Oct. 23.
Trailer, Extensible. C. G. Clement. 1,471,549; Oct. 23.
Trailer, Two-wheeled. C. G. Clement. 1,471,548; Oct. 23.
Trap: *See*—
Insect trap. Water trap.
Trimmer: *See*—
Hedge trimmer.
Trimming sheet material, Straightedge device for use in. C. H. Mitchell. 1,471,522; Oct. 23.
Truck. C. H. Brower. 1,471,446; Oct. 23.
Truck. J. L. Wentz. 1,471,762; Oct. 23.
Truck apparatus, Dumping-. Y. Kinoshita. 1,471,339; Oct. 23.
Truck, Dump. P. E. Barker. 1,471,511; Oct. 23.
Truck, Industrial. W. Schroeder, jr. 1,471,709; Oct. 23.
Trunk lock, Wardrobe-. H. W. Rountree. 1,471,419; Oct. 23.
Trunks, Tray for wardrobe. O. Rangnow. 1,471,806; Oct. 23.
T-square. H. T. Hubbard. 1,471,467; Oct. 23.
Tubes and the like, Machine for heading porcelain. A. G. Mason and L. C. Buckley. 1,471,907; Oct. 23.
Tubes rich in zinc, Making seamless. W. L. Woodward. 1,471,373; Oct. 23.
Tuning transformer. J. F. Rodgers. 1,471,418; Oct. 23.
Type holder, Interchangeable steel-. G. H. Bracht. 1,471,443; Oct. 23.
Typewriter attachment. A. R. McNeal. 1,471,407; Oct. 23.
Typewriting machines, Casing for. A. G. Thiriot. 1,471,757; Oct. 23.
Typographical elements. G. P. Kingsbury. 1,471,400; Oct. 23.
Typographical machine. E. W. Pierson. 1,471,352; Oct. 23.
Underreamer. J. D. Russ. 1,471,808; Oct. 23.
Vacuum lubricator, Ball-feeding. W. F. Himmelsbach. 1,471,464; Oct. 23.
Vacuum feed device. L. H. Wheeler. 1,471,371; Oct. 23.
Valve. W. B. Brassington. 1,471,444; Oct. 23.
Valve-actuating mechanism for internal-combustion engines. O. L. Perrault. 1,471,861; Oct. 23.
Vacuum cloth hydro-extractors, Attachment for suction-applying members of. G. W. Voelker. 1,471,671; Oct. 23.
Valve-controlling device for internal-combustion engines. R. Hildebrand. 1,471,463; Oct. 23.
Valve, Flush. C. D. Myer. 1,471,504; Oct. 23.
Valve for internal-combustion engines. R. P. Grieve. 1,471,955; Oct. 23.
Valve for milk-agitating tanks, Flush. G. S. White. 1,471,991; Oct. 23.
Valve for tanks or receptacles, Relief. P. Mather. 1,471,855; Oct. 23.
Valve grinder. C. H. Beach. 1,471,769; Oct. 23.
Valve-grinding apparatus. C. J. Driganti. 1,471,779; Oct. 23.
Valve, Sluice. J. Chapman and W. F. R. Reynolds. 1,471,944; Oct. 23.
Vaporizer, Liquid-fuel. G. Keith and W. A. Whstmough. 1,471,470; Oct. 23.
Vehicle guard, Motor-. J. W. Jones. 1,472,005; Oct. 23.
Vehicle lock. C. to Kentrup. 1,471,962; Oct. 23.
Vehicle, Motor. C. M. Billings. 1,471,879; Oct. 23.
Vehicles, Automatic steering attachment for motor. G. B. Coolidge. 1,471,883; Oct. 23.
Vehicles, Auxiliary clutch for motor. A. Soss. 1,471,577; Oct. 23.
Vehicles, Foot-operated accelerator for motor. J. A. Thompson. 1,471,579; Oct. 23.
Vehicles, Recording device for motor. R. H. Kimes and O. F. Schmidt. 1,471,850; Oct. 23.
Vehicular extension support. P. N. Jansen. 1,471,734; Oct. 23.
Ventilator. C. V. Swanson. 1,471,811; Oct. 23.
Volatile substances to the human body, Apparatus for applying. G. Madaus. 1,472,032; Oct. 23.
Vulcanizer. N. M. Anderson. Re15,701; Oct. 23.
Wall-board seam and fastening strip. C. Betz. 1,471,442; Oct. 23.
Wall box and making the same, Double. E. W. Labombarde. 1,471,491; Oct. 23.
Washing machine. B. E. Litot. 1,471,667; Oct. 23.
Washing machines, Reversing mechanism for. C. K. Waite. 1,471,873; Oct. 23.
Washtray leg, Adjustable. H. R. Trout. 1,471,931; Oct. 23.
Watch mechanism. G. P. Mohr. 1,471,623; Oct. 23.
Water boiler, Hot-, F., F. H., and W. A. Engelhard. 1,471,784; Oct. 23.
Water-softening apparatus. K. W. Bartlett. 1,471,718; Oct. 23.
Water-supply system. W. L. Nalley. 1,471,800; Oct. 23.
Water trap. G. H. Brunhoeber. 1,471,941; Oct. 23.
Waterproofing for concrete and the product thereby produced, Making. S. B. Newberry. 1,471,410; Oct. 23.
Wave signaling system. W. B. Schulte. 1,471,756; Oct. 23.
Wax-wrapping machine. H. L. Johnson. 1,471,487; Oct. 23.
Well tool. J. W. Hooser. 1,471,607; Oct. 23.
Well tools, Releasing device for. C. E. Brown. 1,471,775; Oct. 23.
Wells, Apparatus for ejecting fluids from. R. H. Tucker. 1,471,758; Oct. 23.
Wheel: *See*—
Auto wheel. Disk wheel.
Wheels, Demountable rim for automobile. H. J. D. Robinson. 1,471,707; Oct. 23.
Wick stop, Automatic. L. S. Chadwick. 1,471,542; Oct. 23.

Winding machine, Semiautomatic. S. Thronsen and J. W. Sager. 1,471,634; Oct. 23.
Window cleaner. V. Viola. 1,471,871; Oct. 23.
Window guard. M. B. Duffy. 1,471,477; Oct. 23.
Window lock and guard. A. Pavola. 1,471,525; Oct. 23.
Window screen. E. H. Smythe. 1,471,534; Oct. 23.
Window screens, Fastener for. E. Jorgensen. 1,471,609; Oct. 23.
Windows, Operating means for casement. A. Johnson. 1,471,736; Oct. 23.
Windshield construction. G. F. Miles. 1,471,856; Oct. 23.
Windshields, Visor attachment for. P. E. Diederich. 1,471,723; Oct. 23.
Wire-enameling machine. J. A. Lewellyn. 1,472,024; Oct. 23.
Wrench: *See*—
Adjustable wrench. Pipe wrench.
Jar wrench. Socket wrench.
Wrench. J. R. Palmeter. 1,471,413; Oct. 23.
Writing machine. H. Graf. 1,471,654; Oct. 23.
Zinc retort volatilization. G. S. Brooks. 1,471,774; Oct. 23.

CLASSIFICATION OF PATENTS

ISSUED OCTOBER 23, 1923.

NOTE.—First number=class, second number=subclass, third number=patent number.

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A-1 Manufacturing Company, Philadelphia, Pa. Metal polish. 175,119; Oct. 30; Serial No. 176,318; published Aug. 7, 1923.

Abbott Laboratories, Chicago, Ill. Butyl aminobenzoate. 175,095; Oct. 30; Serial No. 179,913; published Aug. 7, 1923.

Abelson, L., & Son, New York, N. Y. Boys' suits and coats. 175,213; Oct. 30.

Acheson Harden Co., The, New York, N. Y. Children's handkerchiefs. 174,949; Oct. 30; Serial No. 167,216; published Aug. 14, 1923.

Acme Wire Goods Co. (See Vaughan, George E.)

Adensite Co., Inc., New York, N. Y. Liquid integral used in mixing of building materials. 175,086; Oct. 30; Serial No. 180,317; published Aug. 7, 1923.

Advertising Auto Speedway Co., The, Columbus, Ohio. Miniature automobile race track and cars for use thereon. 175,050; Oct. 30; Serial No. 179,506; published Aug. 7, 1923.

Aetna Life Insurance Company, Hartford, Conn. Monthly periodical. 175,145; Oct. 30; Serial No. 180,319; published Aug. 7, 1923.

Aktiengesellschaft für Tiefbohrtechnik und Maschinenbau vormals Trauzl & Co., Vienna, Austria. Diesel motors and internal-combustion engines. 175,039; Oct. 30; Serial No. 178,422; published Aug. 14, 1923.

Alderman, Fairchild Co., Rochester, N. Y. Game. 174,940; Oct. 30; Serial No. 178,423; published July 17, 1923.

Allen, Horace L., Mfg. Co., Nashville, Tenn. Overalls, pants, and working shirts. 175,190; Oct. 30; Serial No. 175,591; published Aug. 7, 1923.

Allen Hosiery Company, Philadelphia, Pa. Hosiery. 175,214; Oct. 30.

Al-Lon Manufacturing Company Inc., Baltimore, Md. Ironing-board pads and covers, washable mattress covers. 175,129; Oct. 30; Serial No. 180,646; published Aug. 14, 1923.

All Star Hosiery Co. (See Robison, Frank.)

Altoona Packing Company, Astoria, Oreg. Canned fish. 175,273; Oct. 30.

American Cotton Oil Company, The. (See Wilcox, W. J., Lard and Refining Company, assignor.)

American Pickle & Canning Company, Hattiesburg, Miss. Pickles and canned vegetables. 174,997; Oct. 30; Serial No. 172,715; published Aug. 14, 1923.

American Radium Appliance Company, New York, N. Y. Medicinal preparation indicated in chronic inflammations of the mucous membranes. 175,102; Oct. 30; Serial No. 179,699; published Aug. 7, 1923.

American Seeding Machine Company, The, Springfield, Ohio. Seeding implements, particularly grain drills and broadcast seeders. 175,035; Oct. 30; Serial No. 178,654; published Aug. 7, 1923.

American Wholesale Corporation (Baltimore Bargain House), Baltimore, Md. Catalogue issued monthly. 175,057; Oct. 30; Serial No. 179,256; published Aug. 7, 1923.

American Wiremold Company, Hartford, Conn. Braiding and weaving machines. 175,101; Oct. 30; Serial No. 179,703; published Aug. 7, 1923.

American Woolen Company, Rochdale, Mass. Woolen piece goods. 175,174; Oct. 30; Serial No. 181,372; published Aug. 7, 1923.

American Wringer Company, The, Providence, R. I., and New York and Auburn, N. Y., assignor to American Wringer Company Inc., Woonsocket, R. I. Clothes wringers. 24,111; renewed Jan. 23, 1924.

American Wringer Company, The, Providence, R. I., and New York and Auburn, N. Y., assignor to American Wringer Company Inc., Woonsocket, R. I. Clothes wringers. 24,114–16; renewed Jan. 23, 1924.

Anaconda Copper Mining Company, New York, N. Y. Brass, copper, etc., tubes. 175,024; Oct. 30; Serial No. 177,210; published Aug. 7, 1923.

Anaconda Copper Mining Company, New York, N. Y. Finished commutator copper bars and strips. 175,025; Oct. 30; Serial No. 177,209; published June 5, 1923.

Anaconda Copper Mining Company, New York, N. Y. Finished commutator copper bars and strips. 175,109; Oct. 30; Serial No. 177,063; published June 5, 1923.

Anaheim Valencia Growers Ass'n., Anaheim, Calif. Fresh citrous fruits. 175,041; Oct. 30; Serial No. 178,370; published Aug. 7, 1923.

Angle, Charles O., doing business as Angle Mfg. Co., Racine, Wis. Negligee, dress, and sport shirts. 175,216; Oct. 30.

Anita Company, The. (See Rostow, Anna D.)

Apaca Knitting Mills. (See Forstadt, Jacob.)

Appleton Toy & Furniture Co., Appleton, Wis. Porch furniture. 174,959; Oct. 30; Serial No. 161,403; published Aug. 7, 1923.

Aqua-Sulphur Company. (See Sassetti, Joseph.)

Ariel Works Ltd., Birmingham, England. Cycles, motor cycles, automobiles, aeroplanes, and carriages. 174,982; Oct. 30; Serial No. 137,252; published Aug. 14, 1923.

Ashton, James, Baron. (See Lyon, Hall & Co., assignor.)

Associated Manufacturers Co., Milwaukee, Wis. Blackboard erasers. 175,279; Oct. 30.

Asthma-Tab Laboratories, Kansas City, Mo. Preparation for the relief of asthma and hay fever. 175,266; Oct. 30.

Automatic Curtain Co. (See Warren, Clyde W.)

Automatic Recording Safe Co., The, Chicago, Ill. Portable savings banks. 175,154–5; Oct. 30; Serial Nos. 180,825–6; published Aug. 14, 1923.

Baker, Hamilton and Pacific Company, San Francisco, Calif. Adhesive tape. 175,073; Oct. 30; Serial No. 170,356; published Aug. 7, 1923.

Baker, Hamilton and Pacific Company, San Francisco, Calif. Asphalt-saturated roofing felt, building paper, deadening felt, etc. 175,074; Oct. 30; Serial No. 170,353; published Aug. 7, 1923.

Baker, Hamilton and Pacific Company, San Francisco, Calif. Padlocks and key blanks. 175,075; Oct. 30; Serial No. 170,351; published Aug. 7, 1923.

Baldacci, Valentino, doing business as Laboratorio Chimico Farmaceutico V. Baldacci, Pisa, Italy. Hæmostatic preparations. 174,934; Oct. 30; Serial No. 170,888; published July 24, 1923.

Barke-Berger Food Products Co., Toledo, Ohio. Salads, salad dressings, pickles, etc. 175,204; Oct. 30; Serial No. 175,182; published Aug. 14, 1923.

Barley Motor Car Company, Kalamazoo, Mich. Taxicabs. 175,019; Oct. 30; Serial No. 177,349; published Aug. 14, 1923.

Battenfeld Grease & Oil Company, The, Kansas City, Mo. Lubricating grease. 175,262; Oct. 30.

Battle Creek Food Company, The, Battle Creek, Mich. Cereal food beverage. 175,212; Oct. 30.

Bear Mill Manufacturing Company, Inc., New York, N. Y. Cotton broadcloth. 175,053; Oct. 30; Serial No. 179,351; published Aug. 7, 1923.

Bech, Van Sicien & Co., Inc., New York, N. Y. Solidified coal-tar disinfectants. 175,198; Oct. 30; Serial No. 174,815; published Aug. 7, 1923.

Becklin Wrench Company, Inc., Seattle, Wash. Wrenches. 175,256; Oct. 30.

Berendsen Silk Knitting Co., Bangor, Pa. Full-fashioned and novelty hosiery. 175,105; Oct. 30; Serial No. 179,648; published Aug. 14, 1923.

Berger, Harry, doing business as Harry Berger Shirt Company, New York, N. Y. Men's and boys' collars, pyjamas, and shirts. 175,146; Oct. 30; Serial No. 180,741; published Aug. 7, 1923.

Berger, Harry, doing business as Harry Berger Shirt Company, New York, N. Y. Men's and boys' collars, pyjamas, and shirts. 175,148–9; Oct. 30; Serial Nos. 180,742–3; published Aug. 7, 1923.

Biegler, E. N., Manufacturing Co., Chicago, Ill. Plaster-like composition for use as a surfacing for floors, walls, roofs, etc. 175,140; Oct. 30; Serial No. 180,412; published Aug. 7, 1923.

Blake, William H., Jersey City, N. J. Mechanical pencils. 175,169; Oct. 30; Serial No. 181,585; published Aug. 7, 1923.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Cotton and wool upholstery fabrics. 175,187; Oct. 30; Serial No. 175,765; published Aug. 7, 1923.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Cotton and wool upholstery fabrics. 175,188; Oct. 30; Serial No. 175,763; published Aug. 7, 1923.

Bob & Baskind, New York, N. Y. Men's and boys' shirts and boys' blouses. 175,230; Oct. 30.

Bon Ami Company, Inc., The, New York, N. Y. Scouring soap. 175,072; Oct. 30; Serial No. 170,557; published Aug. 7, 1923.

Bonded Products Corporation, New York, N. Y. Soap and soap products. 175,018; Oct. 30; Serial No. 177,354; published Aug. 7, 1923.

Boott Mills, Lowell, Mass. Woven cotton towels and toweling. 175,106; Oct. 30; Serial No. 177,164; published Aug. 7, 1923.

Boss Nut Company, Chicago, Ill. Lock nuts, bolts, rivets, screws. 175,017; Oct. 30; Serial No. 177,355; published Aug. 7, 1923.

Bossong, Joseph C., doing business as J. C. Bossong & Co., New York, N. Y. Hosiery. 175,184; Oct. 30; Serial No. 181,170; published Aug. 7, 1923.

Botany Worsted Mills, Passaic, N. J. Fabric known as worsted rep. 175,177; Oct. 30; Serial No. 181,334; published Aug. 14, 1923.

Boyd, A. C., doing business as Pine-O Chemical Company, Langdale, Ala. Furniture and automobile polish. 175,066; Oct. 30; Serial No. 171,062; published Aug. 14, 1923.

Bradford Dyers' Association, Limited, The, Bradford, England. Cotton and other piece goods. 175,049; Oct. 30; Serial No. 179,583; published Aug. 14, 1923.
Bramblett, J. Thad, Pocasset, Okla. Preparations for the treatment of eczema and other skin diseases, burns, scalds, etc. 175,044; Oct. 30; Serial No. 178,326; published Aug. 7, 1923.
Brigham Company, The, Springfield, Mass. Hosiery. 175,163; Oct. 30; Serial No. 181,056; published Aug. 7, 1923.
Brownhill & Kramer, Philadelphia, Pa. Hosiery. 175,156; Oct. 30; Serial No. 180,837; published Aug. 7, 1923.
Burnham-Munger-Root Dry Goods Co., Kansas City, Mo. Textile underwear. 175,231; Oct. 30.
Burroughs, Harry E., Boston, Mass. Swing couch hammocks. 174,980; Oct. 30; Serial No. 143,533; published Aug. 7, 1923.
Butler, J. W., Paper Company, Chicago, Ill. Book and cover papers and post-card stock. 175,271; Oct. 30.
Byers, John F., Machine Company, The, Ravenna, Ohio. Cranes. 174,976; Oct. 30; Serial No. 151,823; published Aug. 14, 1923.
Byers Machine Company, The, Ravenna, Ohio. Cranes mounted on motor trucks. 175,199; Oct. 30; Serial No. 175,068; published Aug. 14, 1923.
C. & W. Cap Company, Nevada, Iowa. Caps and closures for receptacles and containers. 175,126; Oct. 30; Serial No. 180,688; published Aug. 7, 1923.
C. B. C. Film Sales Corporation, New York, N. Y. Motion pictures. 175,030; Oct. 30; Serial No. 179,025; published Aug. 14, 1923.
California Co-Operative Canneries, San Francisco, Calif. Canned fruits and vegetables. 175,194; Oct. 30; Serial No. 175,844; published Aug. 7, 1923.
California Wall Bed Company, San Francisco, Calif. Concealable beds. 175,144; Oct. 30; Serial No. 180,326; published Aug. 7, 1923.
Camel Chemical Co. Inc., Portland, Oreg. Battery solution. 174,941–2; Oct. 30; Serial Nos. 178,821–2; published July 24, 1923.
Camilla Preparations, Inc., New York, N. Y. Reducing cream. 174,945; Oct. 30; Serial No. 178,893; published July 24, 1923.
Capcoss Co., Inc., The, Martinsville, Va. Medicinal preparation recommended for use in the treatment of rheumatic, neuritic, and sciatic affections, etc. 175,133; Oct. 30; Serial No. 180,583; published Aug. 7, 1923.
Cardinet Candy Company, Oakland, Calif. Candy. 175,253; Oct. 30.
Carolina Cotton & Woolen Mills Company, The, Spray, N. C. Cotton blankets. 175,180–1; Oct. 30; Serial No. 181,243–4; published Aug. 14, 1923.
Carter, Ivy R., Estacada, Oreg. Lamp shades. 175,191; Oct. 30; Serial No. 175,543; published Aug. 14, 1923.
Chat-Less-Ine Company, Springfield, Mass. Nonchatter preparations for automobile bands. 175,205; Oct. 30; Serial No. 175,185; published Aug. 7, 1923.
Chemical Engineering Company (Machester) Limited, The, Manchester, England. Grinding and crushing machinery. 175,129; Oct. 30; Serial No. 180,418; published Aug. 14, 1923.
Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece comprised of silk. 175,173; Oct. 30; Serial No. 181,378; published Aug. 7, 1923.
Cocroft, Susanna, Laboratories Inc., New York, N. Y. Soap. 175,150; Oct. 30; Serial No. 180,750; published Aug. 7, 1923.
Cohn Hall Marx Co., New York, N. Y. Cotton and cotton and silk mixture piece goods. 175,098; Oct. 30; Serial No. 179,853; published Aug. 7, 1923.
Colgate & Company, Jersey City, N. J., and New York, N. Y. Shaving soap. 175,282; Oct. 30.
College Inn Food Products Co., Chicago, Ill. Cooked and canned food products. 175,067; Oct. 30; Serial No. 170,865; published Aug. 14, 1923.
Columbus McKinnon Chain Company, The, Columbus, Ohio. Tire-chain fasteners. 175,167; Oct. 30; Serial No. 181,673; published Aug. 14, 1923.
Compyrin Laboratories. (See Fleming, Harold.)
Consolidated Mining and Smelting Company of Canada, Limited, The Trail, British Columbia, Canada. Lead, zinc, copper, gold, silver, antimony, and iron. 174,968; Oct. 30; Serial No. 158,417; published Aug. 7, 1923.
Corrugated Bar Company, Inc., Buffalo, N. Y. Metal rods, bars, stirrups, etc., for reenforcing concrete, metallic lathing and studding, etc. 174,978; Oct. 30; Serial No. 148,647; published Aug. 14, 1923.
Cramp, William, & Sons Ship & Engine Building Co., The, Philadelphia, Pa. Gears and gear blanks. 174,975; Oct. 30; Serial No. 154,962; published Aug. 14, 1923.
Crescent Washing Machine Company, Incorporated, New Rochelle, N. Y. Dishwashing machines and metal-parts-washing machines. 175,125; Oct. 30; Serial No. 177,168; published Aug. 7, 1923.
Crystaline Salt Co., Boston, Mass., assignor to Remington Salt Company, Ithaca, N. Y. Salt. 24,007; renewed Jan. 9, 1924.
Cultivator Publishing Company, Los Angeles, Calif. Weekly periodicals. 175,138; Oct. 30; Serial No. 180,421; published Aug. 7, 1923.
Davis, G. M., Regulator Company, Chicago, Ill. Regulating valves. 175,257; Oct. 30.
De Bevoise, Chas. R., Co., Newark, N. J. Brassières. 174,964; Oct. 30; Serial No. 159,503; published Aug. 7, 1923.
De Bevoise, Chas. R., Co., Newark, N. J. Brassières. 174,966; Oct. 30; Serial No. 159,502; published Aug. 7, 1923.
Denman Myers Cord Tire Company, The, Warren, Ohio. Tires composed of rubber and fabric. 175,179; Oct. 30; Serial No. 181,252; published Aug. 14, 1923.
Detmer, Bruner & Mason, Inc., New York, N. Y. Spool silk. 175,237; Oct. 30.
De Vito Salvo Hair Tonic Co., Inc., New York, N. Y. Hair tonic and preservative. 175,012; Oct. 30; Serial No. 177,833; published Aug. 7, 1923.
Diamond Cab Sales Corporation, New York, N. Y. Automobile bodies. 175,082; Oct. 30; Serial No. 179,993; published Aug. 14, 1923.
Diamond Match Company, The, Chicago, Ill. Matches. 175,032; Oct. 30; Serial No. 178,914; published Aug. 14, 1923.
Diamond State Fibre Company, Elsmere, Del., and Bridgeport, Pa. Laminated phenolic condensation product made by impregnating materials. 175,089; Oct. 30; Serial No. 180,163; published Aug. 7, 1923.
Donley Brothers Company, Cleveland, Ohio. Fireplace dampers and operating means therefor, fireplace baskets, etc. 175,033; Oct. 30; Serial No. 178,828; published Aug. 7, 1923.
Draper-Maynard Company, The, Plymouth, N. H. Athletic shirts, jerseys, and sweaters. 175,070; Oct. 30; Serial No. 170,632; published Aug. 7, 1923.
Druggists' Supply Corporation, New York, N. Y. Handkerchiefs. 175,172; Oct. 30; Serial No. 181,388; published Aug. 7, 1923.
Dudley Lumber Company Inc., Memphis, Tenn. Logs and rough lumber. 175,037; Oct. 30; Serial No. 178,598; published July 24, 1923.
Durable Products Company, The, Cleveland, Ohio. Semi-liquid asbestos roof coating. 175,195; Oct. 30; Serial No. 175,190; published Aug. 7, 1923.
Earl Fruit Company, Sacramento, Calif. Fresh deciduous fruits. 175,076; Oct. 30; Serial No. 170,010; published Aug. 7, 1923.
El Monte Canning Co., El Monte, Calif. Canned fruits and vegetables. 175,134; Oct. 30; Serial No. 180,531; published Aug. 14, 1923.
Emblem Manufacturing Company, Angola, N. Y. Cycles—namely, bicycles and motor cycles. 175,082; Oct. 30; Serial No. 169,161; published Aug. 7, 1923.
Esmond Mills, The, Esmond, Smithfield, R. I. Woven textile fabrics. 175,176; Oct. 30; Serial No. 181,339; published Aug. 7, 1923.
Evansville Pure Milk Co., Evansville, Ind. Fresh milk, butter, and ice cream. 175,221; Oct. 30.
Ever Ready Chocolate Co., The, Rochester, N. Y. Prepared chocolate. 175,091; Oct. 30; Serial No. 179,977; published Aug. 14, 1923.
Everstyle Hosiery Co., Cedarburg, Wis. Hosiery. 175,160; Oct. 30; Serial No. 180,999; published Aug. 7, 1923.
Fageol Motors Co., Oakland, Calif. Motor trucks, automobiles, and a special type of automotive stage bus. 175,223; Oct. 30.
Fa-Mo Company, Memphis, Tenn. Sweet pickles. 174,946; Oct. 30; Serial No. 167,592; published Aug. 14, 1923.
Faultless Nightwear Corporation (E. Rosenfeld & Co.) (See Rosenfeld, E., & Co., assignor.)
Faure, Alexandre, New York, N. Y. Automobiles and automobile chassis. 175,006; Oct. 30; Serial No. 178,170; published Aug. 7, 1923.
Ferguson, Harry, Evansville, Ind. Plows. 175,186; Oct. 30; Serial No. 175,778; published Aug. 7, 1923.
Finkl, A., & Sons Company, Chicago, Ill. Steel forgings. 175,029; Oct. 30; Serial No. 179,038; published Aug. 7, 1923.
Finkl, A., & Sons Company, Chicago, Ill. Steel forgings. 175,060; Oct. 30; Serial No. 179,189; published Aug. 7, 1923.
Fischer, G. H., & Co., Glendale, N. Y. Variometers and variocouplers. 175,226; Oct. 30.
Fisher, Louis H., Cleveland, Ohio. Shoe polish. 175,118; Oct. 30; Serial No. 176,333; published Aug. 7, 1923.
Fleming, Harold C., also doing business as Compyrin Laboratories, Cedar Rapids, Iowa. Medicinal compound containing acetylsalicylic acid. 174,943; Oct. 30; Serial No. 178,834; published July 24, 1923.
Flexum Products Company, The, Denver, Colo. Cement preparation used as a substitute for glue or other adhesive. 175,013; Oct. 30; Serial No. 177,600; published Aug. 14, 1923.
Foamite-Childs Corporation, Wilmington, Del., and Utica, N. Y. Fire-extinguishing apparatus. 175,059; Oct. 30; Serial No. 179,193; published Aug. 14, 1923.
Ford & Kendig Co., Philadelphia, Pa. Stopcocks and stop and waste cocks and metal pipe unions. 174,984; Oct. 30; Serial No. 129,592; published Aug. 7, 1923.
Forstadt, Jacob, doing business as Apaca Knitting Mills, Philadelphia, Pa. Knitted sweaters, mufflers, golf hose, and bathing suits. 174,996; Oct. 30; Serial No. 172,831; published Aug. 7, 1923.

Fort Howard Paper Company, Green Bay, Wis. Toilet paper, paper napkins, towels, and tablecloths. 175,159; Oct. 30; Serial No. 180,970; published Aug. 7, 1923.
Fort Howard Paper Company, Green Bay, Wis. Toilet paper, paper napkins, towels, and tablecloths. 175,170; Oct. 30; Serial No. 181,442; published Aug. 7, 1923.
Fort Howard Paper Company, Green Bay, Wis. Toilet paper, paper napkins, towels, and tablecloths. 175,263; Oct. 30.
Fountain, Levi W., Philadelphia, Pa. Preparation for removing stains and dirt. 175,016; Oct. 30; Serial No. 177,479; published Aug. 7, 1923.
Frank & Company, Savannah, Ga. Knitted underwear, sweaters, hosiery, caps, etc. 175,143; Oct. 30; Serial No. 180,334; published Aug. 14, 1923.
Frankfurt, Saul E., Cleveland, Ohio. Sanitary napkins and aprons. 174,973; Oct. 30; Serial No. 155,878; published Aug. 14, 1923.
Franklin Knitting Mills, Inc., New York, N. Y. Knitted cloth or fabric. 175,242; Oct. 30.
French, Noyes E., Boston, Mass. Beverages sold as soft drinks and sirups used in preparation of same. 175,206; Oct. 30; Serial No. 181,743; published Aug. 7, 1923.
Friedman Bros. & Sons Neckwear Co. Inc., New York, N. Y. Ties, cravats. 175,023; Oct. 30; Serial No. 177,290; published Aug. 7, 1923.
Friedman, Samuel A., Schenectady, N. Y. Ladies' hats, caps, and waists. 174,999; Oct. 30; Serial No. 172,669; published Aug. 7, 1923.
Frolaset Corset Co., Detroit, Mich. Corsets, corset waists, brassières, bandeaux, etc. 175,022; Oct. 30; Serial No. 177,291; published Aug. 14, 1923.
Frost Superior Fence Co., The, Warren, Ohio. Vegetable crutch. 175,026; Oct. 30; Serial No. 179,143; published Aug. 14, 1923.
Frostilla Company, The. (See Shoemaker, Flora H.)
Fruhauf Bros. & Co., New York, N. Y. Men's and young men's overcoats and suits. 175,115; Oct. 30; Serial No. 176,736; published Aug. 14, 1923.
Gambinossi, Dante, New York, N. Y. Candy. 175,120; Oct. 30; Serial No. 176,265; published Aug. 14, 1923.
Garfinkle, Julius, doing business as Julius Garfinkle & Co., Washington, D. C. Ladies' and misses' silk and cotton underwear of textile fabric. 175,068; Oct. 30; Serial No. 170,814; published Aug. 7, 1923.
Garney, J. W., & Son, assignor to The James W. Garney Estate, Scranton, Pa. Liniments and croup tinctures. 23,703; renewed Oct. 10, 1923.
George Chase Co., The, Cambridge, Mass. Candy. 175,071; Oct. 30; Serial No. 170,563; published Aug. 14, 1923.
George, H. J., Long Beach, Calif. Automobile dog carrier. 175,058; Oct. 30; Serial No. 179,195; published Aug. 7, 1923.
Gibbs, Walter A., trading as W. A. Gibbs & Son, Chester, Pa. Animal traps. 175,225; Oct. 30.
Goetz-Berlin Co. Inc., New York, N. Y. Linings, pocketings, and interlinings of cotton fabrics. 175,193; Oct. 30; Serial No. 175,486; published Aug. 7, 1923.
Golding Fabrics Corporation, New York, N. Y. Fabrics made of silk. 175,183; Oct. 30; Serial No. 181,181; published July 17, 1923.
Goldsmith, Walter A., Co., The, Cleveland, Ohio. Bloomers. 175,165; Oct. 30; Serial No. 181,116; published Aug. 7, 1923.
Goshen Churn & Ladder Company, The, Goshen, Ind. Ladders and step stools. 175,005; Oct. 30; Serial No. 171,314; published Aug. 7, 1923.
Grande Maison de Blanc, Inc., New York, N. Y. Handkerchiefs, lace trimmings, ribbons, etc. 174,937; Oct. 30; Serial No. 175,142; published June 5, 1923.
Grangers Manufacturing Co., Boston, Mass. Whiting for industrial purposes. 175,222; Oct. 30.
Grant, W. T., Company, New York, N. Y. Hammers and hatchets. 175,283; Oct. 30.
Grigsby-Grunow-Hinds Co., Chicago, Ill. Windshield visors for automobiles. 174,947–8; Oct. 30; Serial Nos. 167,390–1; published Aug. 14, 1923.
Grobel, Ewald, Philadelphia, Pa. Hosiery. 174,995; Oct. 30; Serial No. 172,876; published Aug. 7, 1923.
Gropper Knitting Mills, Inc., New York, N. Y. Dress goods and all knit fabrics. 175,077; Oct. 30; Serial No. 169,807; published Aug. 7, 1923.
H. K. H. Silk Co., The, Watertown, Conn. Sewing silk. 175,168; Oct. 30; Serial No. 181,594; published Aug. 14, 1923.
H. K. H. Silk Co., The, Watertown, Conn. Silk threads. 175,233; Oct. 30.
Haloid Company, The, Rochester, N. Y. Sensitized photographic paper. 175,027; Oct. 30; Serial No. 179,097; published Aug. 14, 1923.
Hart, Montgomery L., Inc., New York, N. Y. Linen, ramie, hemp, etc., piece goods. 175,015; Oct. 30; Serial No. 177,488; published Aug. 7, 1923.
Hauser Garrison Dry Goods Co., The, Wichita, Kans. Overalls, work shirts, combination work suits. 175,088; Oct. 30; Serial No. 180,215; published Aug. 14, 1923.
Hawley & Hoops, New York, N. Y. Candy. 175,009; Oct. 30; Serial No. 177,971; published Aug. 14, 1923.
Hayes, Jesse M., doing business as Hayes Fish Company, Bridgeport, Conn. Fresh beef, mutton, veal, lamb, pork, etc. 175,238; Oct. 30.
Hayhurst, William P., Santa Rosa, Calif. Lotion for the skin. 174,938; Oct. 30; Serial No. 175,311; published July 24, 1923.
Hazleton Syrup Company, Hazleton, Pa. Canned malt sirup. 175,277; Oct. 30.
Headex Remedy Co., McKeesport, Pa. Headache capsules. 175,131; Oct. 30; Serial No. 180,599; published Aug. 7, 1923.
Helmet Cap Company, Inc., The, New York, N. Y. Radiator caps. 175,001; Oct. 30; Serial No. 172,532; published Aug. 14, 1923.
Helsbels Company, The. (See Williams, William J.)
Herz & Kory, New York, N. Y. Children's hand bags. 175,014; Oct. 30; Serial No. 177,557; published Aug. 14, 1923.
Hillyard, Newton S., doing business as Hillyard Chemical Company, St. Joseph, Mo. Floor dressing. 175,130; Oct. 30; Serial No. 180,602; published Aug. 14, 1923.
Hoevel Manufacturing Corporation, Jersey City, N. J. Sandblast apparatus and parts thereof and accessories therefor. 174,993; Oct. 30; Serial No. 173,284; published Aug. 7, 1923.
Horrocks-Ibbotson Co., Utica, N. Y. Fishing rods, reels, lines, poles, hooks, etc. 174,991; Oct. 30; Serial No. 173,602; published Aug. 7, 1923.
Hortvet, Julius, St. Paul, Minn. Butter-test bottles. 175,252; Oct. 30.
I. C. Refrigeration Co., New York, N. Y. Automobile and refrigeration trucks and refrigeration railroad cars. 175,136; Oct. 30; Serial No. 180,476; published Aug. 14, 1923.
Indian Star Chemical Co., Jericho, Ark. Face powder, hair straightener, liniment, etc. 174,939; Oct. 30; Serial No. 175,356; published July 24, 1923.
Irwin, Oliver C., assignor to The Superior Ice Company Inc., New York, N. Y. Ice. 175,254; Oct. 30.
J. C. Hub Manufacturing Company, The, Cleveland, Ohio. Various completely-printed jobs, specifically house organs, catalogues, price lists, etc. 175,084; Oct. 30; Serial No. 168,111; published Aug. 7, 1923.
J. & P. Coats (R. I.) Inc., Pawtucket, R. I. Thread and yarn. 175,166; Oct. 30; Serial No. 181,729; published Aug. 7, 1923.
Jennings, O. D., & Company, Chicago, Ill. Weighing scales as well as coin-controlled scales. 175,164; Oct. 30; Serial No. 181,077; published Aug. 14, 1923.
Jenny Lee Frocks Inc., Minneapolis, Minn. Dresses, gowns, suits, wraps, and coats. 175,142; Oct. 30; Serial No. 180,378; published Aug. 14, 1923.
Jewell Belting Company, Hartford and West Hartford, Conn. Leather belts for machinery. 175,069; Oct. 30; Serial No. 170,650; published Aug. 7, 1923.
Johnson, B. L., & Co., Inc., Knoxville, Tenn. Candy. 175,008; Oct. 30; Serial No. 177,975; published Aug. 14, 1923.
Jones, John F., Pomona, Calif. Piston packing rings. 174,967; Oct. 30. Serial No. 158,829; published July 31, 1923.
Jönköpings och Vulcans Tändsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 175,056; Oct. 30; Serial No. 179,273; published Aug. 7, 1923.
Jordan, Geo. M., Vincennes, Ind. Wheat flour. 175,245; Oct. 30.
Jordeau, Jean, Inc., South Orange, N. J., and New York, N. Y. Perspiration deodorant. 175,011; Oct. 30; Serial No. 174,742; published Aug. 7, 1923.
Keller, Matthew F., doing business as Springfield Paint & Varnish Co., Springfield, Ohio. Paints, enamels, colors, etc. 174,981; Oct. 30; Serial No. 137,528; published Aug. 14, 1923.
Kelly Axe Manufacturing Company, Charleston, W. Va. Hammers. 175,128; Oct. 30; Serial No. 180,666; published Aug. 7, 1923.
Kemoshyne Products, Inc., Camden, N. J. Preparation for cleaning and polishing bathtubs, washstands, etc. 174,990; Oct. 30; Serial No. 173,838; published Aug. 7, 1923.
Kendrick, James R., Co. Inc., Philadelphia, Pa. Knitted elastic fabric in the piece. 174,957; Oct. 30; Serial No. 162,678; published Aug. 7, 1923.
Keystone Lubricating Company, Philadelphia, Pa. Grease and oil cups and lubricators. 175,062; Oct. 30; Serial No. 179,005; published Aug. 14, 1923.
Klein, L., Inc., Chicago, Ill. Men's and boys' suits, overcoats, and hats. 174,987; Oct. 30; Serial No. 174,309; published July 17, 1923.
Klein, Samuel, New York, N. Y. Ladies' dresses, coats, and suits. 174,989; Oct. 30; Serial No. 174,081; published Aug. 7, 1923.
Knight, B. B. & R., Inc., Providence, R. I., and New York, N. Y. Nurses' and maids' uniforms, caps, and aprons, men's and boys' shirts, etc. 174,998; Oct. 30; Serial No. 172,682; published Aug. 7, 1923.
Kools Manufacturing Company, Appleton, Wis. Vegetable-paring machines. 175,048; Oct. 30; Serial No. 179,605; published Aug. 14, 1923.
Kwik-Ege Stropper Co. (Not Inc.), Chicago, Ill. Razor-blade-stropping holders. 174,970; Oct. 30; Serial No. 158,129; published Aug. 14, 1923.
Kyograph Photo System. (See Wiggin, J. F.)
La Cie. C. H. Catelli, Limited, Montreal, Quebec, Canada. Alimentary pastes. 174,951; Oct. 30; Serial No. 166,348; published Aug. 14, 1923.
Laclede Brass Works. (See Modra, William.)
Laminated Shim Company, Inc., Long Island City, N. Y. Shims and shim stock. 175,274; Oct. 30.

Landau Cabinet Company, St. Louis, Mo. Upholstered furniture. 175,197; Oct. 30; Serial No. 174,743; published Aug. 7, 1923.

Langford, William S., Baltimore, Md. Power belts for transmission, carrying, and elevating use. 175,227; Oct. 30.

Lapin, Samuel, New York, N. Y. Thread for stringing beads or pearls. 175,265; Oct. 30.

Larkin, Bertha M., Georgetown, Mass. Toy villages and dolls. 175,175; Oct. 30; Serial No. 181,343; published Aug. 7, 1923.

Leach, C. H., Company, Boston, Mass. Oil condensers, heat exchangers, and dephlegmators. 175,078; Oct. 30; Serial No. 169,720; published Aug. 7, 1923.

Lee Brothers Company, San Antonio, Tex. Trousers, overalls, shirts. 175,000; Oct. 30; Serial No. 172,603; published Aug. 7, 1923.

Leib, William A., Co. Inc., New York, N. Y. Sweaters, dresses, and scarfs. 175,114; Oct. 30; Serial No. 176,744; published Aug. 14, 1923.

Leichtman, Calvin, doing business as Leichtman Candy Manufacturing Company, Hazleton, Pa. Candy. 175,124; Oct. 30; Serial No. 175,932; published Aug. 14, 1923.

Lester, George F., San Antonio, Tex. Shirts, union suits, drawers, pyjamas, etc. 175,189; Oct. 30; Serial No. 175,727; published Aug. 7, 1923.

Levey Printing Company, Indianapolis, Ind. Card-index and other filing cabinets, desks, stools, etc. 174,992; Oct. 30; Serial No. 173,510; published Aug. 7, 1923.

Lewis Manufacturing Company, Walpole, Mass. Cheesecloth, crinoline, and bunting in the piece. 174,977; Oct. 30, Serial No. 150,319; published Aug. 7, 1923.

Libbey Glass Manufacturing Co., The, Toledo, Ohio. Glassware. 174,932; Oct. 30; Serial No. 171,807; published July 24, 1923.

Little Cahaba Coal Co., Piper, Ala. Coal. 175,281; Oct. 30.

Long, Leon A., Furman, S. C. Cooked and canned beefsteak. 175,278; Oct. 30.

Longnecker, Fred M., Delta, Ohio. Single-service trays and dishes. 175,264; Oct. 30.

Lorraine Manufacturing Company, Pawtucket, R. I. Cotton and other piece goods. 175,218; Oct. 30.

Lumber Service Corporation, Boston, Mass. Asphalt shingles and roofing. 175,244; Oct. 30.

Lyon, Hall & Co., Baltimore, Md., assignor to James, Baron Ashton, doing business as Jas. Williamson & Son, Lancaster, England. Linoleums and window shades. 23,339; renewed July 11, 1923.

Macy, R. H., & Co., Inc., New York, N. Y. Household furniture. 174,961; Oct. 30; Serial No. 160,296; published Aug. 7, 1923.

Mallory Shirt Co., Inc., New York, N. Y. Dress, negligee, soft, and sport shirts. 175,215; Oct. 30.

Mannesmannröhren-Werke, Dusseldorf, Germany. Bicycles and motorcycles and parts thereof, etc. 174,954; Oct. 30; Serial No. 163,691; published Aug. 14, 1923.

Marks, Samuel H., New York, N. Y. Adhesive pastes. 175,239; Oct. 30.

Marshall Field & Company, Chicago, Ill. Trunks, suitcases, and traveling bags. 175,255; Oct. 30.

Marshall Field & Company, Chicago, Ill. Cotton crape goods in the piece. 175,275; Oct. 30.

Marshall-Wells Company, Duluth, Minn. Carpenters' gauges, plumb bobs, plumbs and levels, etc. 175,038; Oct. 30; Serial No. 178,527; published Aug. 7, 1923.

Martin Cantine Co., The, Saugerties, N. Y. Enameled book paper. 175,251; Oct. 30.

Marvin, Charlotte E., San Francisco, Calif. Jellies, jams, preserves, marmalades, and pickles. 175,122; Oct. 30; Serial No. 176,198; published Aug. 14, 1923.

Mautbe, Friedrich, Gesellschaft mit beschränkter Haftung, Schwenningen, Germany. Clocks. 175,217; Oct. 30.

Maxwell Motor Corporation, Detroit, Mich. Pistons. 174,988; Oct. 30; Serial No. 174,212; published Aug. 7, 1923.

Medina Manufacturing Co., The, Medina, Ohio. Lift jack. 174,956; Oct. 30; Serial No. 163,166; published Aug. 14, 1923.

Migel, J. A., Inc., North Bergen, N. J., and New York, N. Y. Dresses, skirts, wraps, blouses. 175,137; Oct. 30; Serial No. 180,485; published Aug. 14, 1923.

Millus, E., & Co., New York, N. Y. Cotton piece goods. 175,132; Oct. 30; Serial No. 180,545; published Aug. 7, 1923.

Miller's, Jacob, Sons, Co., Philadelphia, Pa. Cotton, silk, linen, etc., piece goods. 175,161; Oct. 30; Serial No. 181,025; published Aug. 14, 1923.

Miltex Cloak & Suit Co., New York, N. Y. Women's cloaks, suits, and coats. 175,123; Oct. 30; Serial No. 176,030; published July 17, 1923.

Mitten Traylor, Inc., Philadelphia, Pa. Self-propelled vehicles, motor coaches, and busses. 175,153; Oct. 30; Serial No. 180,818; published Aug. 14, 1923.

Model Form Company, Chicago, Ill. Dress forms. 175,246; Oct. 30.

Modra, William, doing business as Laclede Brass Works, St. Louis, Mo. Sun visors. 174,965; Oct. 30; Serial No. 167,645; published Aug. 7, 1923.

Moore & Co. Inc., Worcester, Mass. Antacid neutralizing powder. 175,112; Oct. 30; Serial No. 176,906; published Aug. 7, 1923.

Morisse Lace & Embroidery Co., St. Louis, Mo. Embroideries, handkerchiefs, laces, and cotton and silk goods. 175,007; Oct. 30; Serial No. 177,986; published Aug. 7, 1923.

Multibestos Company, Walpole, Mass. Brake lining. 175,141; Oct. 30. Serial No. 180,341; published July 31, 1923.

Mummert Lumber & Tie Co., Chicago, Ill. Engine push poles. 175,021; Oct. 30; Serial No. 177,315; published Aug. 14, 1923.

Munning, A. P., & Co., Matawan, N. J. Cloth polishing wheels. 174,953; Oct. 30; Serial No. 166,192; published Aug. 7, 1923.

Murphey, Edwin M., Macon, Miss. Bluing. 175,269; Oct. 30.

Munter, Charles, New York, N. Y. Corsets, ladies' underwear, etc. 174,986; Oct. 30; Serial No. 174,701; published Aug. 14, 1923.

Myriad Manufacturing Co., New York, N. Y. Fur kerchief for women for summer wear. 175,045; Oct. 30; Serial No. 178,269; published Aug. 7, 1923.

National Screen Service, Inc., New York, N. Y. Motion-picture films. 175,043; Oct. 30; Serial No. 178,353; published Aug. 14, 1923.

Nekritz, Louis, doing business as Perfect Polish Co., Brooklyn, N. Y. Coating in the nature of an enamel or paint. 175,268; Oct. 30.

Nelson, I. R., Co., Newark, N. J. Reels of wire, radio and receiving sets, and wire coils for radio apparatus. 175,228; Oct. 30.

New Jersey Paper Tube Company, Englewood, N. J. Soda straws. 174,972; Oct. 30; Serial No. 156,542; published Aug. 14, 1923.

New York Bed Spring Mfg. Co., Detroit, Mich. Bed springs. 175,147; Oct. 30; Serial No. 180,716; published Aug. 7, 1923.

Nonsuch Manufacturing Co. Limited, The, Toronto, Ontario, Canada. Polishes for metal and boots and shoes. 175,196; Oct. 30; Serial No. 175,207; published Aug. 7, 1923.

Oertel Roofing Manufacturing Company (now by change of name Stormcote Roofing Corporation), East St. Louis, Ill. Rag fiber and asphalt roofing. 174,962; Oct. 30; Serial No. 160,149; published Aug. 7, 1923.

Olympia Canning Company, Olympia, Wash. Canned fruits and berries. 175,272; Oct. 30.

Ormerod, John, & Sons Ltd., Castleton, England. Leather roller skins. 175,185; Oct. 30; Serial No. 181,144; published Aug. 7, 1923.

Osakeyhtio Savo, Ltd., Kuopio, Finland. Matches. 175,003; Oct. 30; Serial No. 171,864; published Aug. 14, 1923.

Our Home Granula Co., assignor to Our Home Granula Company, Danville, N. Y. Cooked granulated wheat. 24,131; renewed Jan. 30, 1924.

Paradiso, Vincenzo G., Passaic, N. J. Pianos. 175,211; Oct. 30.

Parsons, Montgomery H., doing business as Parsons Chemical Company, Dayton, Ohio. Glue for lagging steel pulleys with canvas. 175,241; Oct. 30.

Peerless Confection Company, Chicago, Ill. Candies. 175,079; Oct. 30; Serial No. 169,604; published Aug. 7, 1923.

Peerless Specialty Manufacturing Co. (See Staplin, Wayland D.)

Pennsylvania Textile Mills, Inc., Glen Riddle, Pa., and New York, N. Y. Pile fabrics in the piece. 175,178; Oct. 30; Serial No. 181,307; published Aug. 7, 1923.

Perfect Polish Co. (See Nekritz, Louis.)

Perfection Garment Company, Martinsburg, W. Va. House dresses and aprons. 175,116; Oct. 30; Serial No. 176,692; published Aug. 7, 1923.

Philipsborn's, Inc., Chicago, Ill. Young men's suits and overcoats. 175,203; Oct. 30; Serial No. 175,155; published Aug. 7, 1923.

Pierini, Attilio, New York, N. Y. Furs and pelts. 174,955; Oct. 30; Serial No. 163,173; published Aug. 7, 1923.

Pine-O Chemical Company. (See Boyd, A. C.)

Portland Cordage Co., The, Portland, Oreg. Rope and twine. 175,250; Oct. 30.

Portland Cordage Co., The, Portland, Oreg. Rope and twine. 175,260; Oct. 30.

Pottgieser, Joseph M., Ocean Park, Calif. Medicinal preparation for the treatment of rheumatism, neuritis, etc. 175,100; Oct. 30; Serial No. 179,740; published Aug. 7, 1923.

Priestley, B., & Co., Bradford, England, assignor to B. Priestley & Co., Inc., New York, N. Y. Piece goods. 23,962–3; renewed Jan. 2, 1924.

Priestley, B., & Co., Bradford, England, assignor to B. Priestleys & Co., Inc., New York, N. Y. Piece goods in which silk predominates. 23,991; renewed Jan. 2, 1924.

Prym, William, Company, Limited, The, Stolberg, Germany. Bone stilettos, hooks and eys, corset eyes, snap fasteners, etc. 174,933; Oct. 30; Serial No. 148,615; published July 17, 1923.

Pure Products Syrup Corporation, New York, N. Y. Beverages sold as soft drinks and sirups for making same. 175,224; Oct. 30.

Quaker Lace Company, Philadelphia, Pa. Lace curtains and nets or curtain lace in piece goods. 175,020; Oct. 30; Serial No. 177,326; published Aug. 7, 1923.

Ramapo Ajax Corporation, New York, N. Y. Cast chilled wheels, industrial cars, shop cars, push cars, etc. 175,042; Oct. 30; Serial No. 178,358; published Aug. 7, 1923.

Reichel, Edward A., Co., Milwaukee, Wis. Oils and greases used for lubricating purposes. 174,963; Oct. 30; Serial No. 159,885; published Aug. 7, 1923.

Remington Arms Company, Inc., New York, N. Y. Paper shot shells. 175,229; Oct. 30.

Remington Salt Company. (See Crystaline Salt Co., assignor.)

Rhea Manufacturing Co., Milwaukee, Wis. Wearing apparel—namely, aprons, dresses, and bloomers. 175,117; Oct. 30; Serial No. 176,653; published Aug. 7, 1923.

Ribeiro, Alberto L., Camden, N. J. Folding chairs, tables, and stools. 175,243; Oct. 30.

Richardson, O. W., & Co., Chicago, Ill. Textile rugs and carpets. 175,083; Oct. 30; Serial No. 168,552; published Aug. 14, 1923.

Risdon Manufacturing Company, The, Naugatuck, Conn. Safety pins. 175,200; Oct. 30; Serial No. 175,104; published Aug. 7, 1923.

Robinson, A. M., Company, Atlanta, Ga. Cotton piece goods. 175,135; Oct. 30; Serial No. 180,496; published Aug. 7, 1923.

Robinson-Roders Co., Inc., The, Newark, N. J. Mattresses, pillows, bolsters, and cushions. 174,983; Oct. 30; Serial No. 136,603; published Aug .7, 1923.

Robinson, Wm. C., & Son Co., Baltimore, Md. Lubricating oils. 175,261; Oct. 30.

Rodison, Frank, doing business as All Star Hosiery Co., Birmingham, Ala. Silk hosiery and knitted or woven silk underwear. 175,061; Oct. 30; Serial No. 179,166; published July 10, 1923.

Rosenberg, Albert E., doing business as Sterling Sales Co., St. Louis, Mo. Aluminum mat plate. 175,276; Oct. 30.

Rosenfeld, E., & Co., assignor to Faultless Nightwear Corporation (E. Rosenfeld & Co.), Baltimore, Md. Night robes. 24,202; renewed Feb. 13, 1924.

Rostow, Anna D., doing business as The Anita Company, Newark, N. J. Markers for towels, etc. 175,031; Oct. 30; Serial No. 179,013; published Aug. 14, 1923.

Rubber Service Laboratories Company, The, Akron, Ohio. Hardwood pitch. 175,004; Oct. 30; Serial No. 171,471; published Aug. 14, 1923.

Ruben, Henry, doing business as To-Rain-On Products Co. (Not Inc.), Chicago, Ill. Roof cement. 175,040; Oct. 30; Serial No. 178,409; published Aug. 7, 1923.

Salant & Salant, Inc., New York, N. Y. Men's and boys' shirts, drawers, etc. 175,219–20; Oct. 30.

San-O-Dent Company, The, Spokane, Wash. Cleanser for false teeth. 174,936; Oct. 30; Serial No. 174,865; published July 24, 1923.

Sassetti, Joseph, doing business as Aqua-Sulphur Company, Chicago, Ill. Sulphur solution used in treatment of skin diseases. 175,280; Oct. 30.

Savannah Truckers Exchange, Savannah, Ga. Fresh vegetables. 175,121; Oct. 30; Serial No. 176,219; published Aug. 14, 1923.

Schaeffer & Budenberg Mfg. Co., Brooklyn, N. Y. Thermometers. 175,108; Oct. 30; Serial No. 177,110; published Aug. 7, 1923.

Schneider, Herman, Mount Vernon, New Rochelle, and White Plains, N. Y., and Stamford, Conn. Hosiery, coats, gloves, suits, etc. 174,994; Oct. 30; Serial No. 172,960; published Aug. 7, 1923.

Schwalb, William A., New York, N. Y. Face or wash cloths. 175,151; Oct. 30; Serial No. 180,813; published Aug. 14, 1923.

Scott and Turner, Limited, Newcastle-on-Tyne, England. Medicated preparation for liver ailments. 174,944; Oct. 30; Serial No. 178,874; published July 24, 1923.

Shedaker, Charles E., & Sons, Philadelphia, Pa. Men's and women's woven textile athletic underwear and women's bloomers. 175,047; Oct. 30; Serial No. 179,627; published Aug. 14, 1923.

Shoemaker, Flora H., doing business as The Frostilla Company, Elmira, N. Y. Lotion for the skin. 174,935; Oct. 30; Serial No. 173,445; published July 24, 1923.

Simmons Hardware Company, St. Louis, Mo. Bicycle tires and automobile tubes and casings. 175,081; Oct. 30; Serial No. 169,259; published Aug. 14, 1923.

Sklarek, Albert, Co. Inc., New York, N. Y. Upholstered furniture. 175,111; Oct. 30; Serial No. 176,922; published Aug. 7, 1923.

Smith & Kanzler, Elizabeth, N. J. Asbestos cement. 175,162; Oct. 30; Serial No. 181,047; published Aug. 7, 1923.

Smith Oil & Refining Company, Rockford, Ill. Cleaner and polish for automobiles, furniture, etc. 175,127; Oct. 30; Serial No. 180,627; published Aug. 14, 1923.

South Bend Spark Arrester Co., The, South Bend, Ind. Spark arresters. 175,085; Oct. 30; Serial No. 167,900; published Aug. 14, 1923.

Southern California Dry Goods Company, Gloversville, N. Y. Men's dress, negligee, and work shirts, nightshirts and pyjamas, hosiery, etc. 175,036; Oct. 30; Serial No. 178,634; published Aug. 7, 1923.

Southern Cotton Mills Agency, Inc., Baltimore, Md. Seamless bags. 175,249; Oct. 30.

Spa Knitting Co. Inc., Ballston Spa, N. Y. Sport goods. 175,152; Oct. 30; Serial No. 180,816; published Aug. 7, 1923.

Springfield Paint & Varnish Co. (See Keller, Matthew F.)

Stafford, George A., doing business as G. A. Stafford & Company, New York, N. Y. Woven cotton fabrics in the piece. 174,985; Oct. 30; Serial No. 124,422; published Aug. 14, 1923.

Stambaugh & Rabe, Akron, Ohio, and Auburndale, Fla. Citrous fruits in their natural state. 174,971; Oct. 30; Serial No. 157,637; published Aug. 7, 1923.

Standard Furniture Co., Seattle, Wash. Furniture. 175,234; Oct. 30.

Stanley Works, The, New Britain, Conn. Rules, yardsticks, bevels, etc. 175,063; Oct. 30; Serial No. 179,433; published Aug. 14, 1923.

Stanley Works, The, New Britain, Conn. Rules, yardsticks, bevels, etc. 175,064; Oct. 30; Serial No. 179,435; published Aug. 14, 1923.

Staplin, Wayland D., doing business as Peerless Specialty Manufacturing Co., Wichita, Kans. Tire-puncture compound. 175,258; Oct. 30.

Sterling Sales Co. (See Rosenberg, Albert E.)

Stetson, George A., Boston, Mass. Arch cushions. 175,247–8; Oct. 30.

Stone Medicine Company, The, assignor to Frank Z. Woods, Chicago, Ill. Bronchial wafers, troches and lozenges. 23,987; renewed Jan. 2, 1924.

Stormcote Roofing Corporation. (See Oertel Roofing Manufacturing Company.)

Sumter Brick Works, Sumter, S. C. Bricks. 175,046; Oct. 30; Serial No. 179,629; published Aug. 7, 1923.

Superior Ice Company, The. (See Irwin, Oliver C., assignor.)

Swart, Winter B., Brooklyn, N. Y. Candy. 175,270; Oct. 30.

Swenson Evaporator Company, Harvey, Ill. Evaporators. 175,192; Oct. 30; Serial No. 175,530; published Aug. 14, 1923.

Sylvan Toilet Co., assignor to Albert F. Wood, Detroit, Mich. Cosmetic lotion cream, jelly and soap for the toilet. 24,186; renewed Feb. 6, 1924.

Taylora Silk Emulsion, Inc., New York, N. Y. Silk softener. 175,094; Oct. 30; Serial No. 179,973; published Aug. 7, 1923.

Thornycroft, John I., & Co. Limited, Westminster and London, England. Steam and internal-combustion engines. 175,052; Oct. 30; Serial No. 179,385; published Aug. 7, 1923.

To-Rain-On Products Co. (Not Inc). (See Ruben, Henry.)

Tourist Handbook Pub. Co., Ames, Iowa. Motorist publication. 175,051; Oct. 30; Serial No. 179,386; published Aug. 7, 1923.

Townsend, E. M., & Co., New York, N. Y. Hosiery. 175,002; Oct. 30; Serial No. 172,132; published Aug. 7, 1923.

Tropical Juice Corp., Brooklyn, N. Y. Nonalcoholic, maltless pineapple drink. 175,236; Oct. 30.

True-Tone Radio Mfg. Co. (Not Inc.), Chicago, Ill. Radiotelephone loud-speaker horns, variometers, etc. 175,232; Oct. 30.

Tullidge, George B., Philadelphia, Pa. Castor-oil compound. 175,010; Oct. 30; Serial No. 177,931; published Aug. 7, 1923.

Ulmann, Bernard, Co. Inc., New York, N. Y. Art-needlework package. 175,055; Oct. 30; Serial No. 179,286; published Aug. 7, 1923.

Unico Motor Products Corporation, St. Louis, Mo. Piston or packing rings. 174,952; Oct. 30; Serial No. 166,332; published Aug. 14, 1923.

Union Hardware Company, Torrington, Conn., and New York, N. Y. Ice and roller skates. 23,727; renewed Oct. 17, 1923.

Union Petroleum Company, Philadelphia, Pa. Core oils. 175,210; Oct. 30.

United Lace & Braid Mfg. Co., Cranston, R. I. Shoe, underwear, and blouse lacings, galloons, and braids. 175,097; Oct. 30; Serial No. 179,807; published Aug. 7, 1923.

United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Nails. 175,099; Oct. 30; Serial No. 179,755; published Aug. 7, 1923.

United States Gypsum Company, Chicago, Ill. Calcined gypsum, stucco, and wall plasters. 175,113; Oct. 30; Serial No. 176,863; published Aug. 7, 1923.

Van Camp Packing Company Inc., The, Indianapolis, Ind. Soap. 175,201; Oct. 30; Serial No. 175,115; published Aug. 7, 1923.

Vancouver Cedar Mills, Limited, Vancouver, British Columbia, Canada, and Chicago, Ill. Shingles, siding, and finishing lumber. 175,080; Oct. 30; Serial No. 169,515; published Aug. 14, 1923.

Vandewart Company Incorporated, New York, N. Y. Knitted piece goods. 175,034; Oct. 30; Serial No. 178,784; published Aug. 14, 1923.

Vaughan, George E., doing business as Acme Wire Goods Co., Jersey City, N. J. Paper clips. 175,259; Oct. 30.

Venesta Limited, London, England. Ply wood, veneer, sawed timber, or cork reenforced with sheet metal cemented to surfaces. 175,157; Oct. 30; Serial No. 180,912; published Aug. 7, 1923.

Vickery & Hill Pub. Co., The, Augusta, Me. Monthly magazine. 175,065; Oct. 30; Serial No. 179,440; published Aug. 7, 1923.

Viking Specialty Company, Worcester, Mass. Screw drivers, wrenches, and wrench sets. 174,960; Oct. 30; Serial No. 160,570; published Aug. 7, 1923.

Vulcan Proofing Company, Brooklyn, N. Y. Offset blankets, rubber sheetings, sheet rubber, etc. 175,090; Oct. 30; Serial No. 180,156; published Aug. 14, 1923.
Walker Webbing Co., Providence, R. I. Hair nets. 174,974; Oct. 30; Serial No. 155,725; published Aug. 7, 1923.
Warren, Clyde W., doing business as Automatic Curtain Co., Sauk Rapids, Minn. Porch shades. 175,096; Oct. 30; Serial No. 179,904; published Aug. 7, 1923.
Watts, Ritter and Company, Huntington, W. Va. Men's high-grade dress shirts. 175,202; Oct. 30; Serial No. 175,116; published Aug. 7, 1923.
Western Drop Forge Company, Marion, Ind. Drop forgings. 175,171; Oct. 30; Serial No. 181,429; published Aug. 7, 1923.
Western Paper Box Company, Chicago, Ill. Paper pails. 175,207–9; Oct. 30; Serial Nos. 181,796–8; published Aug. 14, 1923.
Western Shirt Company, The, New York, N. Y. Work shirts. 175,107; Oct. 30; Serial No. 177,156; published Aug. 7, 1923.
White & Bagley Company, The, Worcester, Mass. Lubricating oils and greases. 175,235; Oct. 30.
Whittall, M. J., Associates, Worcester, Mass. Wilton and plush carpets. 174,950; Oct. 30; Serial No. 167,065; published Aug. 14, 1923.
Wickes, Wm. Wirt, & Son, New York, N. Y. Molasses. 175,110; Oct. 30; Serial No. 176,930; published Aug. 14, 1923.
Wiener, Nathan, New York, N. Y. Underwear, brassières, bloomers, petticoats, etc. 175,104; Oct. 30; Serial No. 179,694; published Aug. 14, 1923.
Wiggin, J. F., doing business as Kyograph Photo System, New York, N. Y. Photographs. 174,958; Oct. 30; Serial No. 162,154; published Aug. 7, 1923.
Wilcox, W. J., Lard and Refining Company, The, assignor to The American Cotton Oil Company, Guttenberg, N. J., and New York, N. Y. Hog lard and oil. 23,943; renewed Dec. 26, 1923.
Wile, Frederic W., Washington, D. C. Title for a newspaper column. 175,028; Oct. 30; Serial No. 179,076; published Aug. 7, 1923.
Will & Baumer Candle Co., Inc., Syracuse, N. Y. Stearic acid. 175,103; Oct. 30; Serial No. 179,695; published Aug. 7, 1923.
Williams, August, Perth Amboy, N. J. Candy. 175,093; Oct. 30; Serial No. 179,980; published Aug. 7, 1923.
Williams, J. S., doing business as The Williams Stained Shingle Co., Vancouver, Wash. Stained wooden shingles. 175,158; Oct. 30; Serial No. 180,916; published Aug. 7, 1923.
Williams, William J., assignor to The Heisbeis Company, a trust estate, Chicago, Ill. Electric alarm and signal devices for automobiles and motor trucks. 174,979; Oct. 30; Serial No. 148,469; published Feb. 20, 1923.
Williamson, Jas., & Son. (See Lyon, Hall & Co., assignor.)
Wireless Spitzescope Co., The, San Francisco, Calif. Apparatus for determining by return vibration the distance between two objects. 175,054; Oct. 30; Serial No. 179,290; published Aug. 14, 1923.
Witcombe, McGeachin & Co., New York, N. Y. Printed textile fabrics. 175,240; Oct. 30.
Wolf, Sayer & Heller, Inc., Chicago, Ill. Seasonings for meat products. 175,267; Oct. 30.
Wood, Albert F. (See Sylvan Toilet Co., assignor.)
Woods, Frank Z. (See Stone Medicine Company, assignor.)
Young, Thomas Inc., New York, N. Y. Linen piece goods. 175,182; Oct. 30; Serial No. 181,231; published Aug. 14, 1923.
Zangmaster, John E., Columbus, Ohio. Coated ice-cream products. 174,969; Oct. 30; Serial No. 158,352; published Aug. 14, 1923.
Zeno Company Inc., New York, N. Y. Combination outer suits, knickerbockers, coats, and caps for children. 175,087; Oct. 30; Serial No. 180,257; published Aug. 14, 1923.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Farrelly, Joseph, doing business as Radermo Laboratories, Pelham, N. Y. Genuine Ra-Der-Mo Complexion Cream. For Complexion Cream. 26,502; Oct. 30.
Kelly, Frank S., doing business as Kelly's Japan Polish Co., Chicago, Ill. Jap. An. and a representation of two eyes. For a Polish and Coating for Japanned, Varnished, or Enameled Surfaces. 26,503; Oct. 30.
Milligan, G. D., Company, The, Springfield, Mo. Dixie Rose. For Hair Nets. 26,504; Oct. 30.
Radermo-Laboratories. (See Farrelly, Joseph.)
Rose, Simon B., doing business as S. B. Rose & Co., New York, N. Y. Rose's Pure Honey. For Honey. 26,505; Oct. 30.
United Drug Company, doing business as United Candy Company, Boston, Mass. Kandy Packs. For Candy. 26,506; Oct. 30.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Beiman, D., and Sons, Chicago, Ill. Ring Her At Beiman's. For Jewelry. 6,945; Oct. 30.
Raybestos Company, The, Bridgeport, Conn. The Raybestos Way is the Safe Way. For Brakes and Brake Linings. 6,946; Oct. 30.
Squibb, E. R., & Sons, New York, N. Y. Another great achievement by the Squibb Laboratories. For Dental Cream. 6,947; Oct. 30.
Squibb, E. R., & Sons, New York, N. Y. Now you can Know what your dental cream will do. For Dental Cream. 6,948; Oct. 30.
Squibb, E. R., & Sons, New York, N. Y. Its Points of Advantage. For Solargentum Squibb. 6,949; Oct. 30.
Squibb, E. R., & Sons, New York, N. Y. Pleasant flavor means preferred sales. For Aromatic Squibb. 6,950; Oct. 30.
Squibb, E. R., & Sons, New York, N. Y. Squibb's Healthy Baby Contest. For Nursery Products. 6,951; Oct. 30.
Whyt-E-Naml Specialty Co., Inc., The, New York, N. Y. Sany E Naml. For Enamel Fixtures. 6,952; Oct. 30.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

PUBLISHED FOR OPPOSITION.

Al-Fa-Fa Mfg. Co. (See Geddes & Barnaby.)
Allen, Alma E., doing business as The Allen Company, Cleveland, Ohio. Salves for the hair and scalp. 171,782; Oct. 30.
Aluminum Company of America, Pittsburgh and New Kensington, Pa. Aluminum and aluminum-base alloys. 180,679; Oct. 30.
American Dyewood Company, New York, N. Y. Fire-extinguishing compositions and ingredients thereof. 182,897; Oct. 30.
American Institute of Rational Therapeutics, Chicago, Ill. Electrical outfits for electronic diagnosis. 182,954; Oct. 30.
American Institute of Rational Therapeutics, Chicago, Ill. Treatment outfits for electrotherapeutics. 182,955; Oct. 30.
American Institute of Rational Therapeutics, Chicago, Ill. Electrical outfits for electronic diagnosis and electrotherapeutics. 182,956; Oct. 30.
American La France Fire Engine Company, Inc., Elmira, N. Y. Motor-driven vehicles. 184,052; Oct. 30.
American Manufacturing Company. (See Markt & Hammacher Company.)
American Safety Razor Corporation, Brooklyn, N. Y. Penknives, penknives with detachable blades, razors, etc. 181,666; Oct. 30.
Anglo-American Mill Company. (See Sandefur, Charles O., assignor.)
Armored Trunk Mfg. Co. (See Knell, Louis.)
Asmus Bros., Detroit, Mich. Coffee. 180,733; Oct. 30.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Atkinson, Frederick C., doing business as Knighthood Flour and Cereal Co., Indianapolis, Ind. Wheat flour. 180,462; Oct. 30.
Atlas Knitting Mills, Inc., Union, N. J. Knitted bathing suits, sweaters, and slip-ons. 184,060; Oct. 30.
Automatic Bearing Machine Co., San Jose, Calif. Cylinder heads. 183,686; Oct. 30.
Automatic Electric Company, Chicago, Ill. Automatic telephone systems. 183,133; Oct. 30.
Baca, Pablo, doing business as La Victoria Packing Co., Los Angeles, Calif. Canned chili. 179,348; Oct. 30.
Bacon Banjo Co. Inc., The, Groton, Conn. Banjos. 184,580; Oct. 30.
Bain Wagon Company, The, Kenosha, Wis. Wagons. 183,354; Oct. 30.
Baker, Joseph, Sons and Perkins Limited, London, England. Mixing and coating machines for plastic or semiliquid substances. 181,332; Oct. 30.
Baldwin Radio Electrical Manufacturing Co., Inc., Brooklyn, N. Y. Radio receiving and transmitting sets and parts thereof. 166,344; Oct. 30.
Ballantine, P., & Sons, Newark, N. J. Malt sirup for beverage purposes. 152,881; Oct. 30.
Barbe-McKenzie Corporation, New York, N. Y. Drapery fabrics. 185,197; Oct. 30.
Barnett, Gertrude, San Francisco, Calif. Porcelain teapots. 176,942; Oct. 30.
Battenfeld Grease & Oil Company, The, Kansas City, Mo. Lubricating grease. 184,929; Oct. 30.
Battle Creek Food Company, The, Battle Creek, Mich. Nut cereal food. 175,703; Oct. 30.
Baur, O. P., Conf. Co., The, Denver, Colo. Candy, cakes, shelled nuts, and sandwiches. 171,723; Oct. 30.
Beatrice Creamery Company, Chicago, Ill. Ice cream. 182,734; Oct. 30.
Benjamin & Weil, Inc., New York, N. Y. Ladies' undervests, corset covers, and brassières. 182,289; Oct. 30.
Bennington Wax Paper Company, Bennington, Vt. Wax paper, wax lunch rolls, dry and waxed shredded paper, etc. 179,453; Oct. 30.
Berwind Fuel Company, Minneapolis, Minn. Coal. 183,622; Oct. 30.
Bestyett Food Company. (See Whitsitt, Sarah G.)
Biloxi Packing & Trading Co., Biloxi, Miss. Canned oysters and shrimp. 170,364; Oct. 30.
Blanke, C. F., Candy Company, branch of C. F. Blanke Tea & Coffee Company, St. Louis, Mo. Candy. 181,107–8; Oct. 30.
Blood, John, & Company, Inc., Philadelphia, Pa. Hosiery. 183,817; Oct. 30.
Blu-Blaze Corporation, Chicago, Ill. Alcohol stoves. 182,496; Oct. 30.
Blu-Blaze Corporation, Chicago, Ill. Denatured ethyl alcohol suitable for use in alcohol stoves. 182,497; Oct. 30.
Bob & Baskind, New York, N. Y. Men's and boys' work and dress shirts, boys' waists and blouses, etc. 183,356; Oct. 30.
Boba Drug Co., The. (See Gerke, Robert H.)
Boncilla Laboratories, Incorporated. (See Crown Chemical Company.)
Bonney-Floyd Co., The, Marion Road, Columbus, Ohio. Grinding balls. 164,221; Oct. 30.
Boyce & Veeder Company, Inc., Long Island City, N. Y. Chemical preparation to be added to gasoline and petroleum products for the prevention and removal of carbon deposits. 182,127; Oct. 30.
Brandon Mills, Inc., New York, N. Y. Ornamental fabrics of vulcanized sheet gum rubber. 182,200; Oct. 30.
Breakstone Bros., Inc., New York, N. Y. Cream cheese. 180,958; Oct. 30.
Buerger, Theo. S., & Son, Buffalo, N. Y. Hosiery and knitted underwear. 180,960; Oct. 30.
Callegari, John A., doing business as Callegari Products Co., Chicago, Ill. Malt extract and sirup. 184,710; Oct. 30.
Caminati, John A., doing business as J. A. C. Cheese Manufacturing Co., Chicago, Ill. Cheese, French dressing, mayonnaise, and Thousand Island dressing. 179,259; Oct. 30.
Capital Neckwear Company. (See Rosen, Isidore.)
Cardinet Candy Company, Oakland, Calif. Candy. 179,584; Oct. 30.
Cavanaugh, William D., doing business as Velvet Oil Co., Reno and Oil City, Pa. Medicinal oil. 182,131; Oct. 30.
Central Scientific Company, Chicago, Ill. Pumps, etc. 185,445; Oct. 30.
Central Scientific Company, Chicago, Ill. Filter paper. 185,446; Oct. 30.
Central Scientific Company, Chicago, Ill. Vacuum pumps. 185,448; Oct. 30.
Champion Pneumatic Machinery Company, Chicago, Ill. Air compressors and air and water stands. 183,553; Oct. 30.
Chandler Motor Car Company, The, Cleveland, Ohio. Internal-combustion engines. 172,145; Oct. 30.
Chas. Douglas-Mack Co. Inc., New York, N. Y. Men's and young men's outer clothes. 167,803; Oct. 30.
Chicago Automobile Trade Association, Chicago, Ill. Periodical publications. 180,522–3; Oct. 30.
Chicago Belting Company, Chicago, Ill. Dressing for leather or canvas belts. 181,879; Oct. 30.
Chiklax Chemical Products Co. (See Strully, Jacques M.)
Citrus Producta Company, Chicago, Ill. Maltless-beverage flavors and beverages made therefrom. 184,121; Oct. 30.
City Naval Equipment Co. (See Kassler, Max.)
Clare Food & Relish Company, Philadelphia, Pa. Vegetable relish or sandwich filler. 182,565; Oct. 30.
Cohen, Leon, doing business as United Extract Company, Philadelphia, Pa. Beverages with fruit flavors, ginger ale, cream soda, and root beer. 184,650; Oct. 30.
Cohen, S., & Son, Philadelphia, Pa. Woven jute floor rugs. 184,959; Oct. 30.
Coles, Elizabeth M. N., New York, N. Y. Liquid and soinbie combination of ingredients recommended as a hair grower. 182,400; Oct. 30.
Columbia Carbon Company, The, Dayton, Ohio. Inked ribbons. 185,006; Oct. 30.
Columbus Company, The, Columbus, Ohio. Gauges. 177,897; Oct. 30.
Cook, A. J., & Co., Inc., Memphis, Tenn. Prepared Portland cement stucco finish. 183,555; Oct. 30.
Corticelli Silk Company, The, Florence, Northampton, Mass. Silk, artificial silk, and silk and cotton piece goods. 170,624; Oct. 30.
Coudurier, Fructus & Descher, Lyon, France. Fabrics of silk. 151,613; Oct. 30.
Coykendall, H. G., doing business as Coykendall, Inc., San Francisco, Calif. Dried fruits. 184,599; Oct. 30.
Criterion Laboratories, The. (See Phelps, Walter H.)
Crown Chemical Company, The (now by change of name Boncilla Laboratories, Incorporated), Indianapolis, Ind. Facial pack. 176,671; Oct. 30.
Dickson, Jessie A., doing business as J. A. Dickson Mfg. Co., Gary, Ind. Preparation for use in treating the scalp and promoting the growth of hair. 182,405; Oct. 30.
Dikeman, Carroll H., doing business as Dikeman's Orange Beverage Stores, Washington, D. C. Orange juice, fruit ciders. 182,738–9; Oct. 30.
Domestic Devices Corporation, New York, N. Y. Machine for grinding scissors, etc. 185,512; Oct. 30.
Donnelly Machine Co., Inc., Brockton, Mass. Machinery for use in the shoe, hat, and glove trade. 182,574; Oct. 30.
Dri-Kamp Company. (See Purcell, Isaac S.)
Dubilier Condenser & Radio Corp., New York, N. Y. Connecting plugs for use with radio apparatus. 181,254; Oct. 30.
Dunco Metal Products Co., Los Angeles, Calif. Sheet-metal products, corner irons, plaster bead, etc. 183,471; Oct. 30.
Dutton, James, Philadelphia, Pa. Preparation for treatment of the bowels. 182,705; Oct. 30.
Eastern Specialty Company, The, Philadelphia, Pa. Artificial load transformers, testing switches, etc. 176,887; Oct. 30.
East side Bottling Works, Detroit, Mich. Beverages sold as soft drinks. 182,437; Oct. 30.
Ehrlich, Isadore, doing business as Rockaway Pharmacal Co., New York, N. Y. Preparation to relieve indigestion, heartburn, and gases. 181,113; Oct. 30.
Emery & Beers Company, Inc., assignor to Onyx Hosiery Inc., New York, N. Y. Hosiery. 171,122; Oct. 30.
Eslecok Manufacturing Co., Turners Falls, Mass. Manifold paper. 185,332; Oct. 30.
Etablissements Poulenc Frères, Paris, France. Specific vaccine. 173,743; Oct. 30.
Etablissements Poulenc Frères, Paris, France. Sodium potassium, bismutho tartrate in glucose-aqueous solution. 173,753; Oct. 30.
Etablissements Poulenc Frères, Paris, France. Chemical preparation used as a hypnotic, sedative, or antiepileptic. 173,755; Oct. 30.
Etablissements Poulenc Frères (Société Anonyme), Paris, France. Chemical compound for the treatment of syphilis. 173,756; Oct. 30.
Falina Laboratory, Bridgeport, Conn. Preparation for invigorating and cleaning the scalp. 183,026; Oct. 30.
Farwell, John V., Company, Chicago, Ill. Drapery and upholstery piece goods, curtains, portières, etc. 171,211; Oct. 30.
Ferguson, H. B., Co. Inc., New York, N. Y. Men's and boys' work shirts. 173,270½; Oct. 30.
Ferry, John B., San Francisco, Calif. Vaporizer for internal-combustion motors. 181,826; Oct. 30.
Field Cigar Corporation, Detroit, Mich. Cigars. 177,176; Oct. 30.
Finch, Van Slyck & McConville, St. Paul, Minn. Work shirts. 183,369; Oct. 30.
Findley, William F., Los Angeles, Calif. Combination liquid-soap dispensers and towel racks. 175,239; Oct. 30.
Fitler, Edwin H., Co., The, Philadelphia, Pa. Manila and sisal rope, etc. 158,764; Oct. 30.
Fitler, Edwin H., Co., The, Philadelphia, Pa. Manila and sisal rope, etc. 158,859; Oct. 30.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Flash Chemical Company, Cambridge, Mass. Insecticides and cleaning liquids. 183,027; Oct. 30.
Foley & Company, Chicago, Ill. Cold cream. 182,745; Oct. 30.
Freeman, Louis G., Company, The, Cincinnati, Ohio. Shoe-machinery parts and supplies. 183,106; Oct. 30.
Freihofer Baking Company, Philadelphia, Pa. Cake. 179,787–8; Oct. 30.
Fries & Fries Company, The, Cincinnati, Ohio. Laxative. 182,968–9; Oct. 30.
Fulton Confectionery Company, Boston, Mass. Candy. 182,577; Oct. 30.
Fulton, Emma G., Chicago, Ill. Hair grower. 172,218; Oct. 30.
Geddes & Barnaby, also doing business as Al-Fa-Fa Mfg. Co., Los Angeles, Calif. Laxatives and tonics. 182,579; Oct. 30.
General Asbestos & Rubber Company, Charleston, S. C. Seal and compensating means for piston rings. 170,717; Oct. 30.
General Paint and Varnish Company, Chicago, Ill. Ready-mixed paints, paint enamels, and stains. 183,271; Oct. 30.
General Paint and Varnish Company, Chicago, Ill. Flat wall paint. 183,274; Oct. 30.
General Paint and Varnish Company, Chicago, Ill. Paint enamels, flat wall finish, and varnishes. 183,275; Oct. 30.
General Paint and Varnish Company, Chicago, Ill. Flat wall finish. 183,276; Oct. 30.
General Paint and Varnish Company, Chicago, Ill. Paint enamels, flat wall finish, and varnishes. 183,278; Oct. 30.
General Paint and Varnish Company, Chicago, Ill. Varnish for the cementing of linoleums, etc. 183,279; Oct. 30.
General Paint and Varnish Company, Chicago, Ill. Lemon-oil polish. 183,280; Oct. 30.
General Paint and Varnish Company, Chicago, Ill. Paint and varnish removers. 183,281; Oct. 30.
General Paint and Varnish Company, Chicago, Ill. Varnishes and stains. 183,282; Oct. 30.
General Tobacco Company, Louisville, Ky., and Chicago, Ill. Cigarettes, cigars, and smoking tobacco. 184,332–3; Oct. 30.
General Tobacco Company, Louisville, Ky., and Chicago, Ill. Cigarettes, cigars, and smoking tobacco. 184,335; Oct. 30.
Gerke, Robert H., doing business as The Bobs Drug Co., Marietta, Ohio. Preparation for treating headache, neuralgia, etc. 169,356; Oct. 30.
Gevaert Photo-Producten N. V., Oude-God, near Antwerp, Belgium. Sensitized photographic papers. 184,240; Oct. 30.
Giviemme Company, Philadelphia, Pa. Perfumes, face powders, toilet waters, etc. 182,797; Oct. 30.
Goelier's, M. G., Sons, Circleville, Ohio. Floor brushes. 182,749; Oct. 30.
Gorham Manufacturing Company, Providence, R. I. Knives, forks, spoons, scissors, poultry shears, sharpening steels. 182,249; Oct. 30.
Grangers Manufacturing Co., Boston, Mass. Whiting for use in paint, linoleum, and rubber trades. 182,242–3; Oct. 30.
Granite State Spring Water Co., Atkinson Depot, N. H. Beverage sold as an orange drink and sirup for making the same. 182,302; Oct. 30.
Greene, Tweed & Co., New York, N. Y., and Newark, N. J. Door knockers, door numbers, flaps, hinges, etc. 182,514; Oct. 30.
Greene, Tweed & Co., New York, N. Y. Wrenches and parts thereof. 184,400; Oct. 30.
Grin Co., Inc., The, Los Angeles, Calif. Automobile top dressing, leather dressing, soaps, neat's-foot oil. 184,851; Oct. 30.
Griscom-Russell Company, The, New York, N. Y. Water heaters, fuel-oil heaters, evaporator water heaters. 178,099; Oct. 30.
Guthman, Solomons & Co., Inc., New York, N. Y. Beads. 183,379; Oct. 30.
H. K. H. Silk Co., The, Watertown, Conn. Pure and artificial silk threads. 173,600; Oct. 30.
Haines Manufacturing Corporation, Rochester, N. Y. Automobile accessories. 183,925; Oct. 30.
Hall Baking Co., Buffalo, N. Y. Bread. 180,861; Oct. 30.
Harris, A. W., Oil Company, Providence, R. I. Lubricating oils and greases. 158,084; Oct. 30.
Harris, Isaac F., doing business as Harris Laboratories, Tuckahoe, N. Y. Pharmaceutical and biological products. 165,193; Oct. 30.
Haspel Brothers, New Orleans, La. Men's suits, pants, vests, and coats. 181,746; Oct. 30.
Heckethorn, Nettie E., Casper, Wyo. Hair tonic. 182,810; Oct. 30.
Heidelberg, Wolff & Co., New York, N. Y. Men's and young men's suits, sack suits, overcoats, waistcoats, etc. 183,743; Oct. 30.
Hem-Locked Shade Co., The. (See Smith, Forest C. C.)
Hepburn Company, The, Cleveland, Ohio. Asphalt, including asphalt products designed for roofing, paving, etc. 183,651; Oct. 30.
Hessel, Isadore A., St. Louis, Mo. Fur coats, capes, wraps, and stoles. 170,485; Oct. 30.
Hinsdale Manufacturing Company, Chicago, Ill. Wrenches, wrench and socket wrench sets, and alignment jigs. 183,383; Oct. 30.
Hisey-Wolf Machine Company, The, Cincinnati, Ohio. Locks, particularly for motor vehicles. 183,625; Oct. 30.
Hodgson and Company, Limited, Sydney, New South Wales, Australia. Canned salmon. 180,004–7; Oct. 30.
Hutchinson Manufacturing Co., Inc., Norristown, Pa. Combination woodworking machines. 183,835; Oct. 30.
Igelfors Bruks Aktiebolag, Stockholm, Sweden. Scythes and sickles. 172,275–6; Oct. 30.
Imperial Candy Company, Seattle, Wash. Salted peanuts. 169,302; Oct. 30.
International Milling Company, Minneapolis, Minn. Stock and chicken feed. 176,408; Oct. 30.
International Safety Razor Corp., Bloomfield, N. J. Razors and razor blades. 181,527; Oct. 30.
J. A. C. Cheese Manufacturing Co. (See Caminati, John A.)
James, Percy H., Oklahoma, Okla. Beverage sold as a soft drink. 183,627; Oct. 30.
Jenner, Herbert S., Rochester, N. Y. Beverages sold as soft drinks. 183,384; Oct. 30.
Julin, Albert A., doing business as Julin Importing Company, Chicago, Ill. Hair nets. 184,972; Oct. 30.
Kalifornia Kola Co., Los Angeles, Calif. Candy. 182,590; Oct. 30.
Kampf, H. D., New York, N. Y. =1 sodium hydrosulphite, =2 sodium hydrosulphite, sodium bisulphite, etc. 181,285; Oct. 30.
Kassler, Max, doing business as City Naval Equipment Co., Brooklyn, N. Y. Chest and body protecting garments used as clothing. 179,731; Oct. 30.
Kaufman-Robrlich Knitting Mills, Inc., New York, N. Y. Sweaters and scarfs. 183,836; Oct. 30.
Kellogg Drake & Co., Galesburg, Ill. Cloaks, suits, dresses, and hosiery. 176,836; Oct. 30.
Kerr Chickeries Incorporated, The, Frenchtown, N. J. Eggs. 178,851; Oct. 30.
King Overall Co. Inc., The, Suffolk, Va. Overalls, shirts, underwear, and pyjamas. 183,388; Oct. 30.
Knell, Louis, doing business as Armored Trunk Mfg. Co., Youngstown, Ohio. Trunks. 184,914; Oct. 30.
Knighthood Flour and Cereal Co. (See Atkinson, Frederick C.)
La-Bay' Co. (See Morehouse, L. M.)
Laitman & Laitman, New York, N. Y. Traveling bags, suitcases, brief cases, and trunks. 183,578; Oct. 30.
Lamb, Thomas B., New York, N. Y. Metal containers used for candy, lunch, workboxes, etc. 180,227; Oct. 30.
La Victoria Packing Co. (See Baca, Pablo.)
Lebenson, Robt. J., Corporation, The, New York, N. Y. Cotton piece goods. 182,350; Oct. 30.
Lederer, Herbert B., Corp., New York, N. Y. Gingham piece goods. 179,804; Oct. 30.
Leichner, L., Berlin, Germany. Toilet preparations and theatrical perfumery. 181,402–6; Oct. 30.
Levitz, Mendel, doing business as M. Levitz & Co., Albany, N. Y. Watch movements and watchcases. 185,254; Oct. 30.
Levy & Marcus, New York, N. Y. Scarfs, cravats, neckties. 184,083; Oct. 30.
Lewis & Harris Handwoven Tweed Company Limited, The, Stornaway, Island of Lewis, Scotland. Outer clothing. 171,132; Oct. 30.
Liebovitz, S., & Sons, Inc., New York, N. Y. Shirts. 184,287; Oct. 30.
Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation for the treatment of rheumatism, lumbago, etc. 182,760; Oct. 30.
Linder Bros., New York, N. Y. Women's, misses', and children's cloaks, coats, etc. 185,085; Oct. 30.
Loewy, Morris, doing business as New York Machinery Company, New York, N. Y. Steel equipment and furniture. 174,790; Oct. 30.
Lovell Oil Company, Inc., The, West Fort Lee, N. J. Lemon oil and other oils and polishes. 183,713; Oct. 30.
Luft, George W., Company, Inc., Long Island City, N. Y. Lip stick and rouge. 182,664; Oct. 30.
Lummis & Co., Camden, N. J., and Philadelphia, Pa. Peanuts. 102,565–6; Oct. 30.
M. & V. Tank Company, Wichita Falls, Tex. Storage tanks. 183,527; Oct. 30.
MacLean Drug Company, Chicago, Ill. Mops, brooms, dusters, and brushes. 178,757; Oct. 30.
Markt & Hammacher Company, doing business as American Manufacturing Company, New York, N. Y. Agricultural implements. 171,277; Oct. 30.
Marshall-Wells Company, Duluth, Minn. Hammers, hatchets, saws, planes, etc. 178,528; Oct. 30.
Marshall-Wells Company, Duluth, Minn. Varnish and varnish-stain products. 185,031; Oct. 30.
Max Zeller Söhne, Romanshorn, Switzerland. Remedy used internally for seasickness, etc. 177,793–4; Oct. 30.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

May & Loeb, Inc., New York, N. Y. Ladies' dresses and skirts. 184,175; Oct. 30.
Mead Johnson & Company, Evansville, Ind. Specially-prepared food for infants. 182,598; Oct. 30.
Mentho Sulphur Company, Jersey City, N. J. Medicinal salve for the relief of affections of the skin and scalp. 182,429; Oct. 30.
Metro Pictures Corporation, New York, N. Y. Motion-picture films. 183,453; Oct. 30.
Miller, H. H., Industries Company, The, Canton, Ohio. Bottle filling and capping machines and dairy machinery. 182,168; Oct. 30.
Milliken, John T., & Company, St. Louis, Mo. Germicide and antiseptic mouth wash. 176,563; Oct. 30.
Mintz, Aaron, & Son, Inc., New York, N. Y. Young men's overcoats and suits. 181,138; Oct. 30.
Modern Confectioner Publishing Company, Chicago, Ill. Monthly trade magazine. 162,350½; Oct. 30.
Morehouse, L. M., doing business as La Bay Co., San Francisco, Calif. Bleaching and cleansing facial liquids and creams. 182,665; Oct. 30.
Morrow Manufacturing Co., The, Wellston, Ohio. Shaking screens. 184,346; Oct. 30.
Murray, Charles H., Brooklyn, N. Y. Custards, cakes, egg substitutes, wheat flour, etc. 179,310; Oct. 30.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. 180,233–4; Oct. 30.
National Stamping & Electric Works, Chicago, Ill. Electric vibratory outfits and heating pads, electrical therapeutic batteries. 161,698; Oct. 30.
New Haven Clock Co., The, New Haven, Conn. Clocks. 184,748–51; Oct. 30.
New Haven Knitting Mills, New Haven, Conn. Hosiery. 183,883; Oct. 30.
New York Machinery Company. (See Loewy, Morris.)
New York Vitreous Enamel Products Corporation, Dover, Del., and Flushing, N. Y. Enameled-metal covers for washtubs. 176,643; Oct. 30.
North Dakota Metal Culvert Co., Fargo, N. Dak. Metal culverts and well curbing. 160,021; Oct. 30.
Oest Fruit Co., San Francisco, Calif. Mincemeat. 161,446; Oct. 30.
Oest Fruit Co., San Francisco, Calif. Mincemeat. 161,448; Oct. 30.
Onyx Hosiery Inc. (See Emery & Beers Company.)
Optische Anstalt C. P. Goerz Aktiengesellschaft, Berlin-Friedenau, Germany. Photographic cameras, projecting lanterns, etc. 167,318; Oct. 30.
P. Wolf-Goldman, Inc., New York, N. Y. Underwear, bath robes, nightgowns, slips, kimonos, and buntings. 181,230; Oct. 30.
Pabst Corporation, Milwaukee, Wis. Malt sirup and malt cereal beverages sold as a soft drink. 181,212; Oct. 30.
Pabst Corporation, Milwaukee, Wis. Malt sirup and malt cereal beverages sold as a soft drink. 181,214; Oct. 30.
Pacific Malt & Hops Co. Inc., Brooklyn, N. Y. Malt extract, a sirup for food purposes. 163,001; Oct. 30.
Page, Herbert P., doing business as H. P. Page Co., Boston, Mass. Cement and other petrescent materials, magnesite flooring, and artificial blocks. 183,491; Oct. 30.
Paxtonic Blood Food Co. Inc., Birmingham, Ala. Preparation for the blood. 174,798; Oct. 30.
Peerless Finishing Co. Inc., Los Angeles, Calif. Transparent gum filler. 150,928; Oct. 30.
Phelps, Walter H., doing business as The Criterion Laboratories, Portsmouth, Ohio. Cleaning and polishing materials for furniture, etc. 175,369; Oct. 30.
Phinney-Walker Company, New York, N. Y. Clocks. 185,613–14; Oct. 30.
Precision Speedometer Co., Detroit, Mich. Speedometers and speedometer plates. 183,592; Oct. 30.
Puehrer, Louis, New York, N. Y. Medicine to relieve sore and aching backs, destroy worms, etc. 182,182; Oct. 30.
Purcell, Isaac S., doing business as Dri-Kamp Company, Chicago, Ill. Tents. 179,553; Oct. 30.
Purdy, O. N., jr., Boston, Mass. Wool. 181,774; Oct. 30.
Republic Knitting Mills, Philadelphia, Pa. Knit underwear and athletic suits. 183,316; Oct. 30.
Resnick, Thomas E., Chicago, Ill. Neckwear, mufflers, sweaters, bathing suits, knitted torques. 176,761; Oct. 30.
Rhodes, James H., & Company, Chicago, Ill. Polishing soap and pads of steel wool to be used therewith. 182,859; Oct. 30.
Rockaway Pharmacal Co. (See Ehrlich, Isadore.)
Root, A. I., Company of Texas, San Antonio, Tex. 181,698; Oct. 30.
Rosen, Isidore, doing business as Capital Neckwear Company, New York, N. Y. Collars, scarfs, neckties, and cravats. 182,062; Oct. 30.
Rosenberg, Morris S., New York, N. Y. Horological instruments. 180,240; Oct. 30.
Rubber Service Laboratories Co., The, Akron, Ohio. Compound used in the curing of rubber articles. 182,998; Oct. 30.
Rummel, Hines & Co., Shippensburg, Pa. Overalls, jumpers, shirts, trousers, etc. 183,410; Oct. 30.
Salsberg, Jacob, Inc., New York, N. Y. Ladies' and misses' underwear. 184,265; Oct. 30.
Sandefur, Charles O., doing business as Sandefur's Cereal Mill, assignor to Anglo-American Mill Company, Owensboro, Ky. Cereal scratch and chicken feed for poultry and cereal feed for hogs. 180,301; Oct. 30.
Sandefur's Cereal Mill. (See Sandefur, Charles O.)
San Joaquin Grocery Co., Fresno, Calif. Beverages sold as soft drinks. 182,268; Oct. 30.
Schafuss Corporation, New York, N. Y. Sanitary napkins. 183,166; Oct. 30.
Schlintz Bros. Co., Appleton, Wis. Corn remedy. 182,723; Oct. 30.
Schlintz Bros. Co., Appleton, Wis. Shampoo. 182,724; Oct. 30.
Schlintz Bros. Co., Appleton, Wis. Cough remedy. 182,725; Oct. 30.
Schlorer Delicatessen Co., The, Philadelphia, Pa. Vegetable relish or sandwich filler. 183,234; Oct. 30.
Schmidt & Ault Paper Co., York, Pa. Building paper, sheathing, etc. 183,503; Oct. 30.
Schutze, F., and Company Limited, London, England. Infants' soothers. 180,085; Oct. 30.
Schwartz, Louis, doing business as Z. & S. Middy Company, New York, N. Y. Play suits. 185,382; Oct. 30.
Seaman Paper Company, Chicago, Ill. Enamel book paper. 182,860–1; Oct. 30.
Seaman Paper Company, Chicago, Ill. Ledger paper. 182,862; Oct. 30.
Seaman Paper Company, Chicago, Ill. Uncoated book paper. 182,863; Oct. 30.
Seaman Paper Company, Chicago, Ill. Bristol-board paper. 182,864; Oct. 30.
Seaman Paper Company, Chicago, Ill. Coated cardboard paper. 182,865; Oct. 30.
Seaman Paper Company, Chicago, Ill. Uncoated book paper. 182,866–7; Oct. 30.
Seaman Paper Company, Chicago, Ill. Enameled book paper. 182,868; Oct. 30.
Seaman Paper Company, Chicago, Ill. Writing paper. 182,869; Oct. 30.
Seaman Paper Company, Chicago, Ill. Writing and mimeographing paper. 182,870; Oct. 30.
Seaman Paper Company, Chicago, Ill. Uncoated book paper. 182,871; Oct. 30.
Seaman Paper Company, Chicago, Ill. Manila tag paper. 182,872; Oct. 30.
Seaman Paper Company, Chicago, Ill. Unwatermarked sulphite bond paper. 182,873; Oct. 30.
Seaman Paper Company, Chicago, Ill. Watermarked sulphite bond paper. 182,874; Oct. 30.
Seaman Paper Company, Chicago, Ill. Specially duplex coated paper. 182,875; Oct. 30.
Seaman Paper Company, Chicago, Ill. Enameled book paper. 182,876; Oct. 30.
Seaman Paper Company, Chicago, Ill. Uncoated book paper. 182,877–80; Oct. 30.
Semon Bache & Company, New York, N. Y. Colored glass. 184,920; Oct. 30.
Shapleigh Hardware Company, St. Louis, Mo. Lawn mowers. 183,599; Oct. 30.
Simmons Company, Kenosha, Wis. Bed springs. 183,412; Oct. 30.
Smith, Forest C. C., doing business as The Hem-Locked Shade Co., Luverne, Minn. Window shades. 182,069; Oct. 30.
Soc. An. Fsco. Cinzano & Cia., Turin, Italy. Beverage sold as a soft drink. 183,044; Oct. 30.
Speidel, Immanuel G., doing business as The Sterobrus Co., Buffalo, N. Y. Toothbrush holder. 178,679; Oct. 30.
Staggs, Willie L., doing business as Staggs' Specialty Company, Brookline, Mass. Polish for stoves and nickel, etc. 182,319; Oct. 30.
Standard Oil Company of New York, New York, N. Y. Edible oils. 182,487; Oct. 30.
Stein, S., & Company, New York, N. Y. Woolen piece goods. 184,568; Oct. 30.
Sterobrus Co., The. (See Speidel, Immanuel G.)
Stettner Phonograph Corporation, New York, N. Y. Phonographs. 175,035; Oct. 30.
Stokoe, Chas. L., Wallsend-on-Tyne, England. Automatic alarms and like safety devices for use in connection with power plants. 182,550; Oct. 30.
Story & Clark Piano Co., Chicago, Ill. Pianos. 179,066; Oct. 30.
Strully, Jacques M., doing business as Chiklax Chemical Products Co., Brooklyn, N. Y. Medicinal laxatives. 182,884; Oct. 30.
Sunfield Company, The, Milford, Conn. Gasoline, kerosene, benzine, petroleum, etc. 183,806; Oct. 30.
Tallerday Medicine Company, The, Belvidere and Chicago, Ill. Medicated oil. 182,623; Oct. 30.
Thomsen, August, & Co., Ridgewood, New York, N. Y. Cake-ornamenting and tin pastry tubes, cake-ornamenting sets, etc. 185,389; Oct. 30.
Tissue Company, The, Saugerties, N. Y. Embossed napkins. 183,808; Oct. 30.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Tokheim Oil Tank & Pump Co., Fort Wayne, Ind. Oil and gasoline measuring pumps. 183,323; Oct. 30.
Toledo Dental Supply Co., The. (See Voigt, William A.)
Trimer, Joseph, Company, Chicago, Ill. Preparation for the extermination of flies and mosquitoes. 182,627; Oct. 30.
Trimer, Joseph, Company, Chicago, Ill. Laxative chewing gum. 182,628; Oct. 30.
Turck, Lewis A., Hornell, N. Y. Cake icing. 183,179; Oct. 30.
Turgeon, Joseph A., Providence, R. I. Tool handles. 185,324; Oct. 30.
U. S. Sanitary Specialties Corporation, Chicago, Ill. Soap. 173,543; Oct. 30.
Ullman-Jessel, Inc., New York, N. Y. Ladies' and misses' dresses. 154,774; Oct. 30.
Ungerer & Company, Inc., New York, N. Y. Vanillin. 182,275; Oct. 30.
Union Special Machine Company, Chicago, Ill. Sewing-machine needles. 185,635; Oct. 30.
United Extract Company. (See Cohen, Leon.)
United States Gypsum Company, Chicago, Ill. Land plaster. 167,588; Oct. 30.
United States Music Company, Chicago, Ill. Perforated music rolls. 152,118; Oct. 30.
Velvet Oil Co. (See Cavanaugh, William D.)
Victorsohn, Morris, New York, N. Y. Lever-operated motors. 184,700; Oct. 30.
Victory Manufacturing Co., Niles, Calif. Metal pipe fittings, stopcocks, and double packed stopcocks. 179,505; Oct. 30.
Voigt, William A., doing business as The Toledo Dental Supply Co., Toledo, Ohio. Deodorizing preparation. 180,347; Oct. 30.
Washington Iron Works, Seattle, Wash. Logging and hoisting equipment. 183,613; Oct. 30.
Welsbach Co. of N. E., The, Boston, Mass. Gas hot-water storage heaters. 178,154; Oct. 30.
Wenzel, H., Tent and Duck Co., St. Louis, Mo. Tents. 183,513; Oct. 30.
Whiting, Harris E., doing business as Whiting Leather & Belting Company, Long Island City, N. Y. Leather belting. 179,978; Oct. 30.
Whitsitt, Sarah G., doing business as Bestyett Food Company, Fort Worth, Tex. Salad dressing. 183,616; Oct. 30.
Williamson, Bailey F., Gainesville, Fla. Rock used in the manufacture of artificial stone. 183,727; Oct. 30.
Worcester Bleach & Dye Works Co., Worcester, Mass. Cotton glazed braider thread. 185,642; Oct. 30.
Z. & S. Middy Company. (See Schwartz, Louis.)
Zeiss, Carl, Jena, Germany. Color fitters. 183,048; Oct. 30.
Zellwood Fern Growers Association, Zellwood, Fla. Ferns. 181,049; Oct. 30.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Coal. Little Cahaba Coal Co. 175,281; Oct. 30.
Furs and pelts. A. Pierini. 174,955; Oct. 30; Serial No. 163,173; published Aug. 7, 1923.
Ice. O. C. Irwin. 175,254; Oct. 30.
Logs and rough lumber. Dudley Lumber Company. 175,037; Oct. 30; Serial No. 178,598; published July 24, 1923.
Phenolic condensation product, Laminated. Diamond State Fibre Company. 175,089; Oct. 30; Serial No. 180,163; published Aug. 7, 1923.
Pitch, Hardwood. Rubber Service Laboratories Company. 175,004; Oct. 30; Serial No. 171,471; published Aug. 14, 1923.

CLASS 2.

Bags, Seamless. Southern Cotton Mills Agency, Inc. 175,249; Oct. 30.
Paper pails. Western Paper Box Company. 175,207–9; Oct. 30; Serial Nos. 181,796–8; published Aug. 14, 1923.
Trays and dishes, Single-service. F. M. Longnecker. 175,264; Oct. 30.

CLASS 3.

Handbags, Children's. Herz & Kory. 175,014; Oct. 30; Serial No. 177,557; published Aug. 14, 1923.
Trunks, suitcases, and traveling bags. Marshall Field & Company. 175,255; Oct. 30.

CLASS 4.

Automobile bands. Nonchatter preparations for. Chat-Less-Ine Company. 175,205; Oct. 30; Serial No. 175,185; published Aug. 7, 1923.
Cleanser for false teeth. San-O-Dent Company. 174,936; Oct. 30; Serial No. 174,865; published July 24, 1923.
Cloth polishing wheels. A. P. Munning & Co. 174,953; Oct. 30; Serial No. 166,192; published Aug. 7, 1923.
Cosmetic, lotion cream jelly, and soap for the toilet. Sylvan Toilet Co. 24,186; renewed Feb. 6, 1924.
Metal polish. A-1 Manufacturing Company. 175,119; Oct. 30; Serial No. 176,318; published Aug. 7, 1923.
Polish, Shoe. L. H. Fisher. 175,118; Oct. 30; Serial No. 176,333; published Aug. 7, 1923.
Polishes for metal and boots and shoes. Nonsuch Manufacturing Co. 175,196; Oct. 30; Serial No. 175,207; published Aug. 7, 1923.
Preparation for cleaning and polishing bathtubs, washstands, etc. Kemoshyne Products, Inc. 174,960; Oct. 30; Serial No. 173,838; published Aug. 7, 1923.
Preparation for removing stains and dirt. L. W. Fountain. 175,016; Oct. 30; Serial No. 177,479; published Aug. 7, 1923.
Soap. Susanna Cocroft Laboratories Inc. 175,150; Oct. 30; Serial No. 180,750; published Aug. 7, 1923.
Soap. Van Camp Packing Company. 175,201; Oct. 30. Serial No. 175,115; published Aug. 7, 1923.
Soap and soap products. Bonded Products Corporation. 175,018; Oct. 30; Serial No. 177,354; published Aug. 7, 1923.
Soap, Scouring. Bon Ami Company. 175,072; Oct. 30; Serial No. 170,557; published Aug. 7, 1923.
Soap, Shaving. Colgate & Company. 175,282; Oct. 30.

CLASS 5.

Adhesive pastes. S. H. Marks. 175,239; Oct. 30.
Adhesive tape. Baker, Hamilton and Pacific Company. 175,073; Oct. 30; Serial No. 170,356; published Aug. 7, 1923.
Glue for lagging steel pulleys with canvas. M. H. Parsons. 175,241; Oct. 30.
Glue substitute. Flexum Products Company. 175,013; Oct. 30; Serial No. 177,600; published Aug. 14, 1923.
Oils, Core. Union Petroleum Company. 175,210; Oct. 30.
Tire-puncture compound. W. D. Staplin. 175,258; Oct. 30.

CLASS 6.

Acid, Stearic. Will & Baumer Candle Co. 175,103; Oct. 30; Serial No. 179,695; published Aug. 7, 1923.
Antacid neutralizing powder. Moore & Co. 175,112; Oct. 30; Serial No. 176,906; published Aug. 7, 1923.
Battery solution. Camel Chemical Co. 174,941–2; Oct. 30; Serial Nos. 178,821–2; published July 24, 1923.
Bluing. E. M. Murphey. 175,269; Oct. 30.
Butyl aminobenzoate. Abbott Laboratories. 175,095; Oct. 30; Serial No. 179,913; published Aug. 7, 1923.
Capsules, Headache. Headex Remedy Co. 175,181; Oct. 30; Serial No. 180,599; published Aug. 7, 1923.
Cream, Reducing. Camilla Preparations, Inc. 174,945; Oct. 30; Serial No. 178,893; published July 24, 1923.
Deodorant, Perspiration. Jean Jordeau, Inc. 175,011; Oct. 30; Serial No. 177,742; published Aug. 7, 1923.
Disinfectants, Solidified coal-tar. Bech, Van Sicien & Co. 175,198; Oct. 30; Serial No. 174,815; published Aug. 7, 1923.
Hæmostatic preparations. V. Baldacci. 174,934; Oct. 30; Serial No. 170,888; published July 24, 1923.
Hair tonic and preservative. De Vito Salvo Hair Tonic Co. 175,012; Oct. 30; Serial No. 177,833; published Aug. 7, 1923.
Liniments and croup tinctures. J. W. Garney & Son. 23,703; renewed Oct. 10, 1923.
Lotion for the skin. W. P. Hayhurst. 174,938; Oct. 30; Serial No. 175,311; published July 24, 1923.
Lotion for the skin. F. H. Shoemaker. 174,935; Oct. 30; Serial No. 173,445; published July 24, 1923.
Medicated preparation for liver ailments. Scott and Turner, Limited. 174,944; Oct. 30; Serial No. 178,874; published July 24, 1923.
Medicinal compound containing acetylsalicylic acid. H. C. Fleming. 174,943; Oct. 30; Serial No. 178,834; published July 24, 1923.
Medicinal preparation for external treatment of rheumatism, neuritis, etc. J. M. Pottgieser. 175,100; Oct. 30; Serial No. 179,740; published Aug. 7, 1923.
Medicinal preparation indicated in chronic inflammation of the mucous membranes. American Radium Appliance Company. 175,102; Oct. 30; Serial No. 179,699; published Aug. 7, 1923.
Medicinal preparation recommended for use in the treatment of rheumatic, neuritic, and sciatic affections, etc. Capcoss Co. 175,133; Oct. 30; Serial No. 180,583; published Aug. 7, 1923.
Oil compound, Castor-. G. B. Tullidge. 175,010; Oct. 30; Serial No. 177,931; published Aug. 7, 1923.
Powder, hair straightener, liniment, etc., Face. Indian Star Chemical Co. 174,939; Oct. 30; Serial No. 175,356; published July 24, 1923.

Preparation for the relief of asthma and hay fever. Asthma-Tab Laboratories. 175,266; Oct. 30.
Preparations for the treatment of eczema and other skin diseases, burns, scalds, etc. J. T. Bramblett. 175,044; Oct. 30; Serial No. 178,326; published Aug. 7, 1923.
Salt. Crystaline Salt Co. 24,007; renewed Jan. 9, 1924.
Silk softener. Taylors Silk Emulsion, Inc. 175,089; Oct. 30; Serial No. 179,973; published Aug. 7, 1923.
Silk softener. Taylors Emulsion, Inc. 175,094; Oct. 30; Serial No. 179,973; published Aug. 7, 1923.
Sulphur solution. J. Sassetti. 175,280; Oct. 30.
Wafers, troches, and lozenges, Bronchial. Stone Medicine Company. 23,987; renewed Jan. 2, 1924.

CLASS 7.

Rope and twine. Portland Cordage Co. 175,250; Oct. 30.
Rope and twine. Portland Cordage Co. 175,260; Oct. 30.

CLASS 9.

Matches. Diamond Match Company. 175,032; Oct. 30; Serial No. 178,914; published Aug. 14, 1923.
Matches. Jönköpings och Vulcans Tändsticksfabriksaktiebolag. 175,056; Oct. 30; Serial No. 179,273; published Aug. 7, 1923.
Matches. Osakeyhtio Savo, Ltd. 175,003; Oct. 30; Serial No. 171,864; published Aug. 14, 1923.
Shells, Paper shot. Remington Arms Company. 175,229; Oct. 30.

CLASS 12.

Asphalt shingles and roofing. Lumber Service Corporation. 175,244; Oct. 30.
Bricks. Sumter Brick Works. 175,046; Oct. 30; Serial No. 179,629; published Aug. 7, 1923.
Building materials, Liquid integral used in mixing. Adensite Co. 175,086; Oct. 30; Serial No. 180,317; published Aug. 7, 1923.
Cement, Asbestos. Smith & Kanzler. 175,162; Oct. 30; Serial No. 181,047; published Aug. 7, 1923.
Cement, Roof. H. Ruben. 175,040; Oct. 30; Serial No. 178,409; published Aug. 7, 1923.
Felt, building paper, deadening felt, etc., Asphalt-saturated roofing. Baker, Hamilton and Pacific Company. 175,074; Oct. 30; Serial No. 170,353; published Aug. 7, 1923.
Gypsum, stucco, and wall plasters, Calcined. United States Gypsum Company. 175,113; Oct. 30; Serial No. 176,863; published Aug. 7, 1923.
Metal rods, etc., for reenforcing concrete metallic lathing and studding, etc. Corrugated Bar Company. 174,978; Oct. 30 Serial No. 148,647; published Aug. 14, 1923.
Plasterlike composition for a surfacing for floors, walls, roofs, etc. E. N. Biegler Manufacturing Co. 175,140; Oct. 30; Serial No. 180,412; published Aug. 7, 1923.
Ply wood, veneer, sawed timber, and cork reenforced with sheet metal cemented to surfaces. Venesta Limited. 175,157; Oct. 30; Serial No. 180,912; published Aug. 7, 1923.
Roof coating, Semiliquid asbestos. Durable Products Company. 175,195; Oct. 30; Serial No. 175,190; published Aug. 7, 1923.
Roofing, Rag fiber and asphalt. Oertel Roofing Manufacturing Company. 174,962; Oct. 30; Serial No. 160,149; published Aug. 7, 1923.
Shingles, siding, and finishing lumber. Vancouver Cedar Mills, Limited. 175,080; Oct. 30; Serial No. 169,515; published Aug. 14, 1923.
Shingles, Stained wooden. J. S. Williams. 175,158; Oct. 30; Serial No. 180,916; published Aug. 7, 1923.

CLASS 13.

Nails. United Shoe Machinery Corporation. 175,099; Oct. 30; Serial No. 179,755; published Aug. 7, 1923.
Nuts, bolts, rivets, screws, Lock. Boss Nut Company. 175,017; Oct. 30; Serial No. 177,355; published Aug. 7, 1923.
Stopcocks and stop and waste cocks, etc. Ford & Kendig Co. 174,984; Oct. 30; Serial No. 129,592; published Aug. 7, 1923.
Tire-chain fasteners. Columbus McKinnon Chain Company. 175,167; Oct. 30; Serial No. 181,673; published Aug. 14, 1923.
Tubes, Brass, copper, etc. Anaconda Copper Mining Company. 175,024; Oct. 30; Serial No. 177,210; published Aug. 7, 1923.
Valves, regulating. G. M. Davis Regulator Company. 175,257; Oct. 30.

CLASS 14.

Forgings, Drop. Western Drop Forge Company. 175,171; Oct. 30; Serial No. 181,429; published Aug. 7, 1923.
Lead, zinc, copper, gold, silver, antimony, and iron. Consolidated Mining and Smelting Company of Canada, Limited. 174,968; Oct. 30; Serial No. 158,417; published Aug. 7, 1923.
Shims and shim stock. Laminated Shim Company. 175,274; Oct. 30.
Steel forgings. A. Finkl & Sons Company. 175,029; Oct. 30; Serial No. 179,038; published Aug. 7, 1923.
Steel forgings. A. Finkl & Sons Company. 175,060; Oct. 30; Serial No. 179,189; published Aug. 7, 1923.

CLASS 15.

Grease, Lubricating. Battenfeld Grease & Oil Company. 175,262; Oct. 30.
Oils and greases. Edward A. Reichel Co. 174,963; Oct. 30; Serial No. 159,885; published Aug. 7, 1923.
Oils and greases, Lubricating. White & Bagley Company. 175,235; Oct. 30.
Oils, Lubricating. Wm. C. Robinson & Son Co. 175,261; Oct. 30.

CLASS 16.

Cleaner and polish. Smith Oil & Refining Company. 175,127; Oct. 30; Serial No. 180,627; published Aug. 14, 1923.
Coating in the nature of an enamel or paint. L. Nekritz. 175,268; Oct. 30.
Floor dressing. N. S. Hillyard. 175,130; Oct. 30; Serial No. 180,602; published Aug. 14, 1923.
Paints, enamels, colors, etc. M. F. Keller. 174,981; Oct. 30; Serial No. 137,528; published Aug. 14, 1923.
Polish, Furniture and automobile. A. C. Boyd. 175,066; Oct. 30; Serial No. 171,062; published Aug. 14, 1923.
Whiting. Grangers Manufacturing Co. 175,222; Oct. 30.

CLASS 19.

Automobile and refrigeration trucks and refrigeration railroad cars. I. C. Refrigeration Co. 175,136; Oct. 30; Serial No. 180,476; published Aug. 14, 1923.
Automobile bodies. Diamond Cab Sales Corporation. 175,092; Oct. 30; Serial No. 179,993; published Aug. 14, 1923.
Automobile dog carrier. H. J. George. 175,058; Oct. 30; Serial No. 179,195; published Aug. 7, 1923.
Automobiles and automobile chassis. A. Faure. 175,006; Oct. 30; Serial No. 178,170; published Aug. 7, 1923.
Automobiles, Windshield visors for. Grigsby-Grunow-Hinds Co. 174,947–8; Oct. 30; Serial Nos. 167,390–1; published Aug. 14, 1923.
Bicycles and motor cycles. Emblem Manufacturing Company. 175,082; Oct. 30; Serial No. 169,161; published Aug. 7, 1923.
Bicycles and motor cycles and parts therefor, etc. Mannesmannröhren-Werke. 174,954; Oct. 30; Serial No. 163,691; published Aug. 14, 1923.
Cast chilled wheels, industrial cars, shop cars, push cars, etc. Rampo Ajax Corporation. 175,042; Oct. 30; Serial No. 178,358; published Aug. 7, 1923.
Cycles, motor cycles, automobiles, aeroplanes, carriages. Ariel Works Ltd. 174,982; Oct. 30; Serial No. 137,252; published Aug. 14, 1923.
Plate, Aluminum mat. A. E. Rosenberg. 175,276; Oct. 30.
Poles, Engine push. Mummert Lumber & Tie Co. 175,021; Oct. 30; Serial No. 177,315; published Aug. 14, 1923.
Radiator caps. Helmet Cap Company. 175,001; Oct. 30; Serial No. 172,532; published Aug. 14, 1923.
Taxicabs. Barley Motor Car Company. 175,019; Oct. 30; Serial No. 177,349; published Aug. 14, 1923.
Trucks, automobiles, and stage bus, Motor. Fageol Motors Co. 175,223; Oct. 30.
Vehicles, motor coaches, and busses, Self-propelled. Mitten Traylor, Inc. 175,153; Oct. 30; Serial No. 180,818; published Aug. 14, 1923.
Visors, Sun. W. Modra. 174,965; Oct. 30; Serial No. 167,645; published Aug. 7, 1923.

CLASS 20.

Linoleums and window shades. Lyon, Hall & Co. 23,339; renewed July 11, 1923.

CLASS 21.

Alarm and signal devices, Electric. W. J. Williams. 174,979; Oct. 30; Serial No. 148,469; published Feb. 20, 1923.
Copper bars and strips, Finished commutator. Anaconda Copper Mining Company. 175,025; Oct. 30; Serial No. 177,209; published June 5, 1923.
Copper bars and strips, Finished commutator. Anaconda Copper Mining Company. 175,109; Oct. 30; Serial No. 177,063; published June 5, 1923.
Radiotelephone horns, variometers, etc. True-Tone Radio Mfg. Co. 175,232; Oct. 30.
Variometers and variocouplers. G. H. Fischer & Co. 175,226; Oct. 30.
Wire, radio receiving sets, etc., Reels of. I. R. Nelson Co. 175,228; Oct. 30.

CLASS 22.

Fishing rods, poles, lines, hooks, etc. Horrocks-Ibbotson Co. 174,991; Oct. 30; Serial No. 173,602; published Aug. 7, 1923.
Game, Alderman, Fairchild Co. 174,940; Oct. 30; Serial No. 178,423; published July 17, 1923.
Skates. Union Hardware Company. 23,727; renewed Oct. 17, 1923.
Toy villages and dolls. B. M. Larkin. 175,175; Oct. 30; Serial No. 181,343; published Aug. 7, 1923.
Track and cars for use thereon, Miniature automobile race. Advertising Auto Speedway Co. 175,050; Oct. 30; Serial No. 179,506; published Aug. 7, 1923.

CLASS 23.

Braiding and weaving machines. American Wiremold Company. 175,101; Oct. 30; Serial No. 179,703; published Aug. 7, 1923.
Cranes. John F. Byers Machine Company. 174,976; Oct. 30; Serial No. 151,823; published Aug. 14, 1923.
Cranes mounted on motor trucks. Byers Machine Company. 175,199; Oct. 30; Serial No. 175,068; published Aug. 14, 1923.
Dishwashing machines and metal-parts-washing machines. Crescent Washing Machine Company. 175,125; Oct. 30; Serial No. 177,168; published Aug. 7, 1923.
Engines, Steam and internal-combustion. John I. Thornycroft & Co. Limited. 175,052; Oct. 30; Serial No. 179,385; published Aug. 7, 1923.
Evaporators. Swenson Evaporator Company. 175,192; Oct. 30; Serial No. 175,530; published Aug. 14, 1923.
Fire-extinguishing apparatus. Foamite-Childs Corporation. 175,059; Oct. 30; Serial No. 179,193; published Aug. 14, 1923.
Gears and gear blanks, William Cramp & Sons Ship & Engine Building Co. 174,975; Oct. 30; Serial No. 154,962; published Aug. 14, 1923.
Grease and oil cups and lubricators. Keystone Lubricating Company. 175,062; Oct. 30; Serial No. 179,005; published Aug. 14, 1923.
Grinding and crushing machinery. Chemical Engineering Co. (Manchester) Limited. 175,139; Oct. 30; Serial No. 180,418; published Aug. 14, 1923.
Hammers. Kelly Axe Manufacturing Company. 175,128; Oct. 30; Serial No. 180,666; published Aug. 7, 1923.
Hammers and hatchets. W. T. Grant Company. 175,283; Oct. 30.
Lift jack. Medina Manufacturing Co. 174,956; Oct. 30; Serial No. 163,166; published Aug. 14, 1923.
Oil condensers, heat exchangers, and dephlegmators. C. H. Leach Company. 175,078; Oct. 30; Serial No. 169,720; published Aug. 7, 1923.
Pistons. Maxwell Motor Corporation. 174,988; Oct. 30; Serial No. 174,212; published Aug. 7, 1923.
Plows. H. Ferguson. 175,186; Oct. 30; Serial No. 175,778; published Aug. 7, 1923.
Razor-blade-stropping holders. Kwik-Edge Stropper Co. 174,970; Oct. 30; Serial No. 158,129; published Aug. 14, 1923.
Roller skins, Leather. John Ormerod & Sons Ltd. 175,185; Oct. 30; Serial No. 181,144; published Aug. 7, 1923.
Sand-blast apparatus and parts thereof and accessories therefor. Hoevel Manufacturing Corporation. 174,993; Oct. 30; Serial No. 173,234; published Aug. 7, 1923.
Screw drivers, wrenches, and wrench sets. Viking Specialty Company. 174,960; Oct. 30; Serial No. 160,570; published Aug. 7, 1923.
Seeding implements. American Seeding Machine Company. 175,035; Oct. 30; Serial No. 178,654; published Aug. 7, 1923.
Vegetable-paring machines. Kools Manufacturing Company. 175,048; Oct. 30; Serial No. 179,605; published Aug. 14, 1923.
Wrenches. Becklin Wrench Company. 175,256; Oct. 30.

CLASS 24.

Wringers, Clothes. American Wringer Company. 24,111; renewed Jan. 23, 1924.
Wringers, Clothes. American Wringer Company. 24,114–16; renewed Jan. 23, 1924.

CLASS 25.

Banks, Portable savings. Automatic Recording Safe Co. 175,154–5; Oct. 30; Serial Nos. 180,825–6; published Aug. 14, 1923.
Padlocks and key blanks. Baker, Hamilton and Pacific Company. 175,075; Oct. 30; Serial No. 170,351; published Aug. 7, 1923.

CLASS 26.

Bottles, Butter-test. J. Hortvet. 175,252; Oct. 30.
Distance between two objects, Apparatus for determining. Wireless Spitzenspe Co. 175,054; Oct. 30; Serial No. 179,290; published Aug. 14, 1923.
Gauges, plumb bobs, plumbs and levels, etc., Carpenters' and marking. Marshall-Wells Company. 175,038; Oct. 30; Serial No. 178,527; published Aug. 7, 1923.
Glassware, particularly gauge glass. Libbey Glass Manufacturing Co. 174,932; Oct. 30; Serial No. 171,807; published July 24, 1923.
Photographic paper. Sensitized. Haloid Company. 175,027; Oct. 30; Serial No. 179,097; published Aug. 14, 1923.
Picture films, Motion-. National Screen Service, Inc. 175,043; Oct. 30; Serial No. 178,353; published Aug. 14, 1923.
Pictures, Motion. C. B. C. Film Sales Corporation. 175,030; Oct. 30; Serial No. 179,025; published Aug. 14, 1923.
Rules, wantage and gauging rods, etc. Stanley Works. 175,064; Oct. 30; Serial No. 179,435; published Aug. 14, 1923.
Rules, yardsticks, bevels, etc. Stanley Works. 175,063; Oct. 30; Serial No. 179,433; published Aug. 14, 1923.
Scales, Weighing as well as coin-controlled. O. D. Jennings & Company. 175,164; Oct. 30; Serial No. 181,077; published Aug. 14, 1923.
Thermometers. Schaeffer & Budenberg Mfg. Co. 175,108; Oct. 30; Serial No. 177,110; published Aug. 7, 1923.

CLASS 27.

Clocks. Friedrich Mauthe Gesellschaft mit beschränkter Haftung. 175,217; Oct. 30.

CLASS 28.

Motors and internal-combustion engines, Diesel. Aktiengesellschaft für Tiefbohrtechnik und Maschinenbau vormals Trauzl & Co. 175,039; Oct. 30; Serial No. 178,422; published Aug. 14, 1923.
Thread for stringing beads or pearls. S. Lapin. 175,265; Oct. 30.

CLASS 32.

Bed springs. New York Bed Spring Mfg. Co. 175,147; Oct. 30; Serial No. 180,716; published Aug. 7, 1923.
Beds, Concealable. California Wall Bed Company. 175,144; Oct. 30; Serial No. 180,326; published Aug. 7, 1923.
Cabinets, desks, stools, etc., Filing. Levey Printing Company. 174,992; Oct. 30; Serial No. 173,510; published Aug. 7, 1923.
Chairs, tables, and stools, Folding. A. L. Ribeiro. 175,243; Oct. 30.
Furniture. Standard Furniture Co. 175,234; Oct. 30.
Furniture, Household. R. H. Macy & Co. 174,961; Oct. 30; Serial No. 160,296; published Aug. 7, 1923.
Furniture, Porch. Appleton Toy & Furniture Co. 174,959; Oct. 30; Serial No. 161,403; published Aug. 7, 1923.
Furniture, Upholstered. Landau Cabinet Company. 175,197; Oct. 30; Serial No. 174,743; published Aug. 7, 1923.
Furniture, Upholstered. Albert Sklarek Co. 175,111; Oct. 30; Serial No. 176,922; published Aug. 7, 1923.
Hammocks, Swing couch. H. E. Burroughs. 174,980; Oct. 30; Serial No. 143,533; published Aug. 7, 1923.
Mattresses, pillows, bolsters, and cushions. Robinson-Roders Co. 174,983; Oct. 30; Serial No. 136,603; published Aug. 7, 1923.
Shades, Porch. C. W. Warren. 175,096; Oct. 30; Serial 179,904; published Aug. 7, 1923.

CLASS 34.

Fireplace dampers and operating means therefor, fireplace baskets, etc. Donley Brothers Company. 175,033; Oct. 30; Serial No. 178,828; published Aug. 7, 1923.
Lamp shades. I. R. Carter. 175,191; Oct. 30; Serial No. 175,543; published Aug. 14, 1923.
Spark arresters. South Bend Spark Arrester Co. 175,085; Oct. 30; Serial No. 167,900; published Aug. 14, 1923.

CLASS 35.

Belts for machinery, Leather. Jewell Belting Company. 175,069; Oct. 30; Serial No. 170,650; published Aug. 7, 1923.
Belts, Power. W. S. Langford. 175,227; Oct. 30.
Brake lining. Multibestos Company. 175,141; Oct. 30; Serial No. 180,341; published July 31, 1923.
Piston or packing rings. Unico Motor Products Corporation. 174,952; Oct. 30; Serial No. 166,332; published Aug. 14, 1923.
Piston packing rings. J. F. Jones. 174,967; Oct. 30; Serial No. 158,929; published July 31, 1923.
Tires. Denman Myers Cord Tire Company. 175,179; Oct. 30; Serial No. 181,252; published Aug. 14, 1923.
Tires and automobile tubes and casings, Bicycle. Simmons Hardware Company. 175,081; Oct. 30; Serial No. 169,259; published Aug. 14, 1923.

CLASS 36.

Pianos. V. G. Paradiso. 175,211; Oct. 30.

CLASS 37.

Erasers, Blackboard. Associated Manufacturers Co. 175,279; Oct. 30.
Paper clips. G. E. Vaughan. 175,259; Oct. 30.
Paper, Enameled book. Martin Cantine Co. 175,251; Oct. 30.
Paper, paper napkins, towels, and tablecloths, Toilet. Fort Howard Paper Company. 175,159; Oct. 30; Serial No. 180,970; published Aug. 7, 1923.
Paper, paper napkins, towels, and tablecloths, Toilet. Fort Howard Paper Company. 175,170; Oct. 30; Serial No. 181,442; published Aug. 7, 1923.
Paper, paper napkins, towels, and tablecloths, Toilet. Fort Howard Paper Company. 175,263; Oct. 30.
Papers, and postcard stock, Book and cover. J. W. Butler Paper Company. 175,271; Oct. 30.
Pencils, Mechanical. W. H. Blake. 175,169; Oct. 30; Serial No. 181,585; published Aug. 7, 1923.

CLASS 38.

Catalogues issued monthly. American Wholesale Corporation (Baltimore Bargain House). 175,057; Oct. 30; Serial No. 179,256; published Aug. 7, 1923.

Magazine, Monthly. Vickery & Hill Pub. Co., The. 175,065; Oct. 30; Serial No. 179,440; published Aug. 7, 1923.
Newspaper column, Title for a. F. W. Wile. 175,028; Oct. 30; Serial No. 179,076; published Aug. 7, 1923.
Periodical, Monthly. Aetna Life Insurance Company. 175,145; Oct. 30; Serial No. 180,319; published Aug. 7, 1923.
Periodicals, Weekly. Cultivator Publishing Company. 175,138; Oct. 30; Serial No. 180,421; published Aug. 7, 1923.
Photographs. J. F. Wiggin. 174,958; Oct. 30; Serial No. 162,154; published Aug. 7, 1923.
Printed jobs, specifically house organs, catalogues, price lists, etc., Various completely-. J. C. Hub Manufacturing Company. 175,084; Oct. 30; Serial No. 168,111; published Aug. 7, 1923.
Publication, Motorists'. Tourist Handbook Pub. Co. 175,051; Oct. 30; Serial No. 179,386; published Aug. 7, 1923.

CLASS 39.

Aprons, dresses, and bloomers. Rhea Manufacturing Co. 175,117; Oct. 30; Serial No. 176,653; published Aug. 7, 1923.
Bloomers. Walter A. Goldsmith Co. 175,165; Oct. 30; Serial No. 181,116; published Aug. 7, 1923.
Brassières. Chas. R. De Bevoise Co. 174,964; Oct. 30; Serial No. 159,503; published Aug. 7, 1923.
Brassières. Chas. R. De Bevoise Co. 174,966; Oct. 30; Serial No. 159,502; published Aug. 7, 1923.
Cloaks, suits, and coats, Women's. Miltex Cloak & Suit Co. 175,123; Oct. 30; Serial No. 176,020; published July 17, 1923.
Collars, pyjamas, and shirts, Men's and boys'. H. Berger. 175,146; Oct. 30; Serial No. 180,741; published Aug. 7, 1923.
Collars, pyjamas, and shirts, Men's and boys'. H. Berger. 175,148–9; Oct. 30; Serial Nos. 180,742–3; published Aug. 7, 1923.
Corsets, girdles, belts, etc. Trolaset Corset Co. 175,022; Oct. 30; Serial No. 177,291; published Aug. 14, 1923.
Corsets, ladies' underwear, etc. C. Munter. 174,986; Oct. 30; Serial No. 174,701; published Aug. 14, 1923.
Dresses and aprons, House. Perfection Garment Company. 175,116; Oct. 30; Serial No. 176,692; published Aug. 7, 1923.
Dresses, coats, and suits, Ladies'. S. Klein. 174,989; Oct. 30; Serial No. 174,081; published Aug. 7, 1923.
Dresses, gowns, suits, wraps, and coats. Jenny Lee Frocks Inc. 175,142; Oct. 30; Serial No. 180,378; published Aug. 14, 1923.
Dresses, skirts, wraps, blouses. J. A. Migel, Inc. 175,137; Oct. 30; Serial No. 180,485; published Aug. 14, 1923.
Hats, caps, and waists, Ladies'. S. A. Friedman. 174,999; Oct. 30; Serial No. 172,669; published Aug. 7, 1923.
Fur kerchief for women. Myriad Manufacturing Co. 175,045; Oct. 30; Serial No. 178,269; published Aug. 7, 1923
Hosiery. Allen Hosiery Company. 175,214; Oct. 30.
Hosiery. Berendsen Silk Knitting Co. 175,105; Oct. 30; Serial No. 179,648; published Aug. 14, 1923.
Hosiery. J. C. Bossong. 175,184; Oct. 30; Serial No. 181,170; published Aug. 7, 1923.
Hosiery. Brigham Company. 175,163; Oct. 30; Serial No. 181,056; published Aug. 7, 1923.
Hosiery. Brownhill & Kramer. 175,156; Oct. 30; Serial No. 180,837; published Aug. 7, 1923.
Hosiery. Everstyle Hosiery Co. 175,160; Oct. 30; Serial No. 180,999; published Aug. 7, 1923.
Hosiery. E. Grobel. 174,995; Oct. 30; Serial No. 172,876; published Aug. 7, 1923.
Hosiery. E. M. Townsend & Co. 175,002; Oct. 30; Serial No. 172,132; published Aug. 7, 1923.
Hosiery and underwear, Silk. F. Robison. 175,061; Oct. 30; Serial No. 179,166; published July 10, 1923.
Hosiery, coats, gloves, suits, etc. H. Schneider. 174,994; Oct. 30; Serial No. 172,960; published Aug. 7, 1923.
Knitted sweaters, mufflers, golf hose, and bathing suits. J. Forstadt. 174,996; Oct. 30; Serial No. 172,831; published Aug. 7, 1923.
Night robes. E. Rosenfeld & Co. 24,202; renewed Feb. 13, 1924.
Overalls, pants, working shirts. Horace L. Allen Mfg. Co. 175,190; Oct. 30; Serial No. 175,591; published Aug. 7, 1923.
Overalls, work shirts, and combination work suits. Hauser Garrison Dry Goods Co. 175,088; Oct. 30; Serial No. 180,215; published Aug. 14, 1923.
Overcoats and suits. Frubauf Bros. & Co. 175,115; Oct. 30; Serial No. 176,736; published Aug. 14, 1923.
Shirts. C. O. Angle. 175,216; Oct. 30.
Shirts. Mallory Shirt Co. 175,215; Oct. 30.
Shirts and boys' blouses. Bob & Baskind. 175,230; Oct. 30.
Shirts, drawers, etc. Salant & Salant. 175,219–20; Oct. 30.
Shirts, drawers, pyjamas, etc. G. F. Lester. 175,189; Oct. 30; Serial No. 175,727; published Aug. 7, 1923.
Shirts, jerseys, and sweaters, Athletic. Draper-Maynard Company. 175,070; Oct. 30; Serial No. 170,632; published Aug. 7, 1923.
Shirts, Men's. Watts, Ritter and Company. 175,202; Oct. 30; Serial No. 175,116; published Aug. 7, 1923.
Shirts, pyjamas, hosiery, etc. Southern California Dry Goods Company. 175,036; Oct. 30; Serial No. 178,634; published Aug. 7, 1923.
Shirts, Work. Western Shirt Company. 175,107; Oct. 30; Serial No. 177,156; published Aug. 7, 1923.
Sport goods. Spa Knitting Co. 175,152; Oct. 30; Serial No. 180,816; published Aug. 7, 1923.
Suits and coats, Boys'. L. Abelson & Son. 175,213; Oct. 30.
Suits and overcoats, Young men's. Philipsborn's, Inc. 175,203; Oct. 30; Serial No. 175,155; published Aug. 7, 1923.
Suits, knickerbockers, coats, and caps for children, Combination outer. Zeno Company. 175,087; Oct. 30; Serial No. 180,257; published Aug. 14, 1923.
Suits, overcoats, and hats, Men's and boys'. L. Klein, Inc. 174,987; Oct. 30; Serial No. 174,309; published July 17, 1923.
Sweaters, dresses, scarfs. William A. Leib Co. 175,114; Oct. 30; Serial No. 176,744; published Aug. 14, 1923.
Ties, cravats. Friedman Bros. & Sons Neckwear Co. 175,023; Oct. 30; Serial No. 177,290; published Aug. 7, 1923.
Trousers, overalls, shirts. Lee Brothers Company. 175,000; Oct. 30; Serial No. 172,603; published Aug. 7, 1923.
Underwear. Burnham-Munger-Root Dry Goods Co. 175,231; Oct. 30.
Underwear and women's bloomers, Men's and women's. Charles E. Shedaker & Sons. 175,047; Oct. 30; Serial No. 179,627; published Aug. 14, 1923.
Underwear, brassières, bloomers, petticoats, etc. N. Wiener. 175,104; Oct. 30; Serial No. 179,694; published Aug. 14, 1923.
Underwear, Ladies' and misses' silk and cotton. J. Garfinkle. 175,068; Oct. 30; Serial No. 170,814; published Aug. 7, 1923.
Underwear, sweaters, hosiery, caps, etc., Knitted. Frank & Company. 175,143; Oct. 30; Serial No. 180,334; published Aug. 14, 1923.
Uniforms, caps, and aprons, men's and boys' shirts, etc., Nurses' and maids'. B. B. & R. Knight, Inc. 174,998; Oct. 30; Serial No. 172,682; published Aug. 7, 1923.

CLASS 40.

Lacings, galloons, and braids, Shoe, underwear, and blouse. United Lace & Braid Mfg. Co. 175,097; Oct. 30; Serial No. 179,897; published Aug. 7, 1923.
Pins, Safety. Risdon Manufacturing Company. 175,200; Oct. 30; Serial No. 175,104; published Aug. 7, 1923.
Stilettos, hooks and eyes, corset eyes, snap fasteners, etc., Bone. William Prym Company. 174,933; Oct. 30; Serial No. 148,615; published July 17, 1923.

CLASS 42.

Blankets, Cotton. Carolina Cotton & Woolen Mills Company. 175,180–1; Oct. 30; Serial Nos. 181,243–4; published Aug. 14, 1923.
Broadcloth, Cotton. Bear Mill Manufacturing Company. 175,053; Oct. 30; Serial No. 179,351; published Aug. 7, 1923.
Carpets, Wilton and plush. M. J. Whittall Associates. 174,950; Oct. 30; Serial No. 167,065; published Aug. 14, 1923.
Cheesecloth, crinoline, and bunting in the piece. Lewis Manufacturing Company. 174,977; Oct. 30; Serial No. 150,319; published Aug. 7, 1923.
Cloths, Face or wash. W. A. Schwalb. 175,151; Oct. 30; Serial No. 180,813; published Aug. 14, 1923.
Cotton and cotton and silk mixture piece goods. Cohn Hall Marx Co. 175,098; Oct. 30; Serial No. 179,853; published Aug. 7, 1923.
Cotton and other piece goods. Bradford Dyers' Association, Limited. 175,049; Oct. 30; Serial No. 179,583; published Aug. 14, 1923.
Cotton and other piece goods. Lorraine Manufacturing Company. 175,218; Oct. 30.
Cotton crape-goods in the piece. Marshall Field & Company. 175,275; Oct. 30.
Cotton fabrics in the piece, Woven. G. A. Stafford. 174,985; Oct. 30; Serial No. 124,422; published Aug. 14, 1923.
Cotton piece goods. E. Milius & Co. 175,132; Oct. 30; Serial No. 180,545; published Aug. 7, 1923.
Cotton piece goods. A. M. Robinson Company. 175,135; Oct. 30; Serial No. 180,496; published Aug. 7, 1923.
Cotton, silk, linen, etc., piece goods. Jacob Miller's Sons Co. 175,161; Oct. 30; Serial No. 181,035; published Aug. 14, 1923.
Curtains and nets of curtain lace in the piece, Lace. Quaker Lace Company. 175,020; Oct. 30; Serial No. 177,326; published Aug. 7, 1923.
Dress goods and all knit fabrics. Gropper Knitting Mills, Inc. 175,077; Oct. 30; Serial No. 169,807; published Aug. 7, 1923.
Embroideries, handkerchiefs, laces, and cotton and silk goods. Morisse Lace & Embroidery Co. 175,007; Oct. 30; Serial No. 177,986; published Aug. 7, 1923.
Hair nets. Walker Webbing Co. 174,974; Oct. 30; Serial No. 155,725; published Aug. 7, 1923.
Handkerchiefs. Druggists' Supply Corporation. 175,172; Oct. 30; Serial No. 181,388; published Aug. 7, 1923.

Handkerchiefs, Children's. Acheson Harden Co. 174,949; Oct. 30; Serial No. 167,216; published Aug. 14, 1923.
Handkerchiefs, ribbons, nets, etc. Grande Maison de Blanc, Inc. 174,937; Oct. 30; Serial No. 175,142; published June 5, 1923.
Ironing board pads and covers, and washable mattress covers. Al-Lon Manufacturing Company. 175,129; Oct. 30; Serial No. 180,646; published Aug. 14, 1923.
Knitted cloth or fabric. Franklin Knitting Mills, Inc. 175,242; Oct. 30.
Knitted elastic fabric in the piece. James R. Kendrick Co. 174,957; Oct. 30; Serial No. 162,678; published Aug. 7, 1923.
Knitted piece goods. Vandewart Company Incorporated. 175,034; Oct. 30; Serial No. 178,784; published Aug. 14, 1923.
Linen piece goods. Thomas Young Inc. 175,182; Oct. 30; Serial No. 182,231; published Aug. 14, 1923.
Linen, ramie, hemp, etc., piece goods. Montgomery L. Hart, Inc. 175,015; Oct. 30; Serial No. 177,488; published Aug. 7, 1923.
Linings, pocketings, and interlinings. Goetz-Berlin Co. 175,193; Oct. 30; Serial No. 175,486; published Aug. 7, 1923.
Piece goods. B. Priestley & Co. 23,962–3; renewed Jan. 2, 1924.
Pile fabrics in the piece. Pennsylvania Textile Mills, Inc. 175,178; Oct. 30; Serial No. 181,307; published Aug. 7, 1923.
Rugs and carpets. Textile. O. W. Richardson & Co. 175,083; Oct. 30; Serial No. 168,552; published Aug. 14, 1923
Silk fabrics. Golding Fabrics Corporation. 175,183; Oct. 30; Serial No. 181,181; published July 17, 1923.
Silk Piece goods. B. Priestley & Co. 23,991; renewed Jan. 2, 1924.
Textile fabrics, Printed. Witcombe, McGeachin & Co. 175,240; Oct. 30.
Towels and toweling, Woven cotton. Boott Mills. 175,106; Oct. 30; Serial No. 177,164; published Aug. 7, 1923.
Upholstery fabrics. Sidney Blumenthal & Co. 175,187; Oct. 30; Serial No. 175,765; published Aug. 7, 1923.
Upholstery fabrics. Sidney Blumenthal & Co. 175,188; Oct. 30; Serial No. 175,763; published Aug. 7, 1923.
Woolen piece goods. American Woolen Company. 175,174; Oct. 30; Serial No. 181,372; published Aug. 7, 1923.
Worsted rep. Botany Worsted Mills. 175,177; Oct. 30; Serial No. 181,334; published Aug. 14, 1923.
Woven, knitted, netted, textile, and pile fabrics in the piece. Cheney Brothers. 175,173; Oct. 30; Serial No. 181,378; published Aug. 7, 1923.
Woven textile fabrics. Esmond Mills. 175,176; Oct. 30; Serial No. 181,339; published Aug. 7, 1923.

CLASS 43.

Package, Art-needlework. Bernard Ulmann Co. 175,055; Oct. 30; Serial No. 179,286; published Aug. 7, 1923.
Silk, Sewing. H. K. H. Silk Co. 175,168; Oct. 30; Serial No. 181,594; published Aug. 14, 1923.
Silk, Spool. Detmer, Bruner & Mason, Inc. 175,237; Oct. 30.
Thread and yarn. J. & P. Coats (R. I.) Inc. 175,166; Oct. 30; Serial No. 181,729; published Aug. 7, 1923.
Threads, Silk. H. K. H. Silk Co. 175,233; Oct. 30.

CLASS 44.

Cushions, Arch. G. A. Stetson. 175,247–8; Oct. 30.
Sanitary napkins and aprons. S. E. Frankfurt. 174,973; Oct. 30; Serial No. 155,878; published Aug. 14, 1923.

CLASS 45.

Beverages and syrups for making same. Pure Products Syrup Corporation. 175,224; Oct. 30.
Beverages sold as soft drinks and syrups used in the preparation of same. N. E. French. 175,206; Oct. 30; Serial No. 182,743; published Aug. 7, 1923.
Drink, Pineapple. Tropical Juice Corp. 175,236; Oct. 30.

CLASS 46.

Beef, mutton, veal, etc., Fresh. J. M. Hayes. 175,238; Oct. 30.
Beefsteak, Cooked and canned. L. A. Long. 175,278; Oct. 30.
Beverage, Cereal food. Battle Creek Food Company. 175,212; Oct. 30.
Candies. Peerless Confection Company. 175,079; Oct. 30; Serial No. 169,604; published Aug. 7, 1923.
Candy. Cardinet Candy Company. 175,253; Oct. 30.
Candy. George Close Co. 175,071; Oct. 30; Serial No. 170,563; published Aug. 14, 1923.
Candy. D. Gambinossi. 175,120; Oct. 30; Serial No. 176,265; published Aug. 14, 1923.
Candy. Hawley & Hoops. 175,009; Oct. 30; Serial No. 177,971; published Aug. 14, 1923.
Candy. B. L. Johnson & Co. 175,008; Oct. 30; Serial No. 177,975; published Aug. 14, 1923.
Candy. C. Leicktman. 175,124; Oct. 30; Serial No. 175,932; published Aug. 14, 1923.
Candy. W. B. Swart. 175,270; Oct. 30.
Candy. A. Williams. 175,093; Oct. 30; Serial No. 179,980; published Aug. 7, 1923.
Canned fish. Altoona Packing Company. 175,273; Oct. 30.
Canned fruits and berries. Olympia Canning Company. 175,272; Oct. 30.
Canned fruits and vegetables, California Co-Operative Canneries. 175,194; Oct. 30; Serial No. 175,844; published Aug. 7, 1923.
Canned fruits and vegetables. El Monte Canning Co. 175,134; Oct. 30; Serial No. 180,531; published Aug. 14, 1923.
Chocolate, Prepared. Ever Ready Chocolate Co. 175,091; Oct. 30; Serial No. 179,997; published Aug. 14, 1923.
Cooked and canned food products. College Inn Food Products Co. 175,067; Oct. 30; Serial No. 170,865; published Aug. 14, 1923.
Flour, Wheat. G. M. Jordan. 175,245; Oct. 30.
Fruits, Citrous. Stambaugh & Rabe. 174,971; Oct. 30; Serial No. 157,637; published Aug. 7, 1923.
Fruits, Fresh citrous. Anaheim Valencia Growers Ass'n. 175,041; Oct. 30; Serial No. 178,370; published Aug. 7, 1923.
Fruits, Fresh deciduous. Earl Fruit Company. 175,076; Oct. 30; Serial No. 170,010; published Aug. 7, 1923.
Ice-cream products, Coated. J. E. Zangmaster. 174,969; Oct. 30; Serial No. 158,352; published Aug. 14, 1923.
Jellies, jams, preserves, marmalades, and pickles. C. E. Marvin. 175,122; Oct. 30; Serial No. 176,198; published Aug. 14, 1923.
Lard and oil, Hog. W. J. Wilcox Lard and Refining Company. 23,943; renewed Dec. 26, 1923.
Milk, butter, and ice cream, Fresh. Evansville Pure Milk Co. 175,221; Oct. 30.
Molasses. Wm. Wirt Wickes & Son. 175,110; Oct. 30; Serial No. 176,930; published Aug. 14, 1923.
Pastes, Alimentary. La Cle. C. H. Catelli, Limited. 174,951; Oct. 30; Serial No. 166,348; published Aug. 14, 1923.
Pickles and canned vegetables. American Pickle & Canning Company. 174,997; Oct. 30; Serial No. 172,715; published Aug. 14, 1923.
Pickles, Sweet. Fa-Mo Company. 174,946; Oct. 30; Serial No. 167,592; published Aug. 14, 1923.
Salads, salad dressings, pickles, etc. Barke-Berger Food Products Co. 175,204; Oct. 30; Serial No. 175,182; published Aug. 14, 1923.
Seasonings for meat products. Wolf, Sayer & Heller, Inc. 175,267; Oct. 30.
Vegetables, Fresh. Savannah Truckers Exchange. 175,121; Oct. 30; Serial No. 176,219; published Aug. 14, 1923.
Wheat, Cooked granulated. Our Home Granula Co. 24,131; renewed Jan. 30, 1924.

CLASS 48.

Canned malt sirup. Hazleton Syrup Company. 175,277; Oct. 30.

CLASS 50.

Blankets, rubber sheetings, sheet rubber, etc., Offset. Vulcan Proofing Company. 175,090; Oct. 30; Serial No. 180,156; published Aug. 14, 1923.
Crutch, Vegetable. Frost Superior Fence Co. 175,026; Oct. 30; Serial No. 179,143; published Aug. 14, 1923.
Dress forms. Model Form Company. 175,246; Oct. 30.
Ladders and step stools. Goshen Churn & Ladder Company. 175,005; Oct. 30; Serial No. 171,314; published Aug. 7, 1923.
Receptacles and containers, Caps and closures for. C. & W. Cap Company. 175,126; Oct. 30; Serial No. 180,688; published Aug. 7, 1923.
Straws, Soda. New Jersey Paper Tube Company. 174,972; Oct. 30; Serial No. 156,542; published Aug. 14, 1923.
Towels, etc., Markers for. A. D. Rostow. 175,031; Oct. 30; Serial No. 179,013; published Aug. 14, 1923.
Traps, Animal. W. A. Gibbs. 175,225; Oct. 30.

ALPHABETICAL LIST OF LABELS.

Dixie Rose. For Hair Nets. G. D. Milligan Company. 26,504; Oct. 30.
Genuine Ra-Der-Mo Complexion Cream. For Complexion Cream. J. Farrelly. 26,502; Oct. 30.
Jap. An. and a representation of two eyes. For a Polish and Coating for Japanned, Varnished, or Enameled Surfaces. F. S. Kelly. 26,503; Oct. 30.
Kandy Packs. For Candy. United Drug Company. 26,506; Oct. 30.
Rose's Pure Honey. For Honey. S. B. Rose. 26,505; Oct. 30.

ALPHABETICAL LIST OF PRINTS.

Another great achievement by the Squibb Laboratories. For Dental Cream. E. R. Squibb & Sons. 6,947; Oct. 30.
Its Points of Advantages. For Solargentum Squibb. E. R. Squibb & Sons. 6,949; Oct. 30.
Now you can know what your dental cream will do. For Dental Cream. E. R. Squibb & Sons. 6,948; Oct. 30.
Pleasant flavor means preferred sales. For Aromatic Squibb. E. R. Squibb & Sons. 6,950; Oct. 30.
Ring Her At Beiman's. For Jewelry. D. Beiman and Sons. 6,945; Oct. 30.
Sany E Naml. For Enamel Fixtures. Whyt-E-Naml Specialty Co. 6,952; Oct. 30.
Squibb's Healthy Baby Contest. For Nursery Products. E. R. Squibb & Sons. 6,951; Oct. 30.
The Raybestos Way is the Safe Way. For Brakes and Brake Linings. Raybestos Company. 6,946; Oct. 30.

CLASSIFIED LIST OF TRADE-MARK TITLES.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

PUBLISHED FOR OPPOSITION.

CLASS 1.

Coal. Berwind Fuel Company. 183,622; Oct. 30.
Ferns. Zellwood Fern Growers Association. 181,049; Oct. 30.
Rock. B. F. Williamson. 183,727; Oct. 30.
Wool. O. N. Purdy, jr. 181,774; Oct. 23.

CLASS 2.

Containers used for candy, lunch, workboxes, etc., Metal. T. B. Lamb. 180,227; Oct. 30.
Tanks, Storage. M. & V. Tank Company. 183,527; Oct. 30.
Toothbrush holder. I. G. Speidel. 178,679; Oct. 30.

CLASS 3.

Traveling bags, suitcases, brief cases, and trunks. Laitman & Laitman. 183,578; Oct. 30.
Trunks. L. Knell. 184,914; Oct. 30.

CLASS 4.

Automobile top dressing, leather dressing, soaps, neatsfoot oil. Grin Co. 184,851; Oct. 30.
Leather or canvas belts, Dressing for. Chicago Belting Company. 181,879; Oct. 30.
Polish for stoves and nickel, etc. W. L. Staggs. 182,319; Oct. 30.
Soap. U. S. Sanitary Specialties Corporation. 173,543; Oct. 30.
Soap and pads of steel wool, Polishing. James H. Rhodes & Company. 182,859; Oct. 30.

CLASS 6.

Alcohol, Denatured ethyl. Blu-Blaze Corporation. 182,497; Oct. 30.
Chemical compound. Etablissements Poulenc Frères (Société Anonyme). 173,756; Oct. 30.
Chemical preparation. Boyce & Veeder Company. 182,127; Oct. 30.
Chemical preparation used as a hypnotic, sedative, or antiepileptic. Etablissements Poulenc Frères. 173,755; Oct. 30.
Compound used in the curing of rubber articles. Rubber Service Laboratories Co. 182,998; Oct. 30.
Corn remedy. Schlintz Bros. Co. 182,723; Oct. 30
Cough remedy. Schlintz Bros. Co. 182,725; Oct. 30.
Cream, Cold. Foley & Company. 182,745; Oct. 30.
Deodorizing preparation. W. A. Voight. 180,347; Oct. 30.
Facial pack. Crown Chemical Company. 176,671; Oct. 30.
Fire-extinguishing compositions and ingredients thereof. American Dyewood Company. 182,897; Oct. 30.
Germicide and antiseptic mouthwash. John T. Milliken & Company. 176,563; Oct. 30.
Hair grower. E. M. N. Coles. 182,400; Oct. 30.
Hair grower. E. G. Fulton. 172,218; Oct. 30.
Hair tonic. N. E. Heckethorn. 182,810; Oct. 30.
Insecticides and cleaning liquids. Flash Chemical Company. 183,027; Oct. 30.
Laxative. Fries & Fries Company. 182,968–9; Oct. 30.
Laxative chewing gum. Joseph Triner Company. 182,628; Oct. 30.
Laxatives. J. M. Strully. 182,884; Oct. 30.
Laxatives and tonics. Geddes & Barnaby. 182,579; Oct. 30.
Lip stick and rouge. George W. Luft Company. 182,664; Oct. 30.
Liquids and creams, Facial. L. M. Morehouse. 182,665; Oct. 30.
Medicated oil. Tallerday Medicine Company. 182,623; Oct. 30.
Medicinal oil. W. D. Cavanaugh. 182,131; Oct. 30.
Medicinal preparation. Eli Lilly and Company. 182,760; Oct. 30.
Medicine to relieve sore and aching backs, destroy worms, etc. L. Puehrer. 182,182; Oct. 30.
Perfumes, face powders, toilet waters, etc. Giviemme Company. 182,797; Oct. 30.
Pharmaceutical and biological products. J. F. Harris. 165,193; Oct. 30.
Preparation for invigorating and cleaning the scalp. Falixa Laboratory. 183,026; Oct. 30.
Preparation for the blood. Paxtonic Blood Food Co. 174,798; Oct. 30.
Preparation for the extermination of flies and mosquitoes. Joseph Triner Company. 182,627; Oct. 30.
Preparation for treating headache, neuralgia, earache, etc. R. H. Gerke. 169,356; Oct. 30.
Preparation for treatment of the bowels. J. Dutton. 182,705; Oct. 30.
Preparation for use in treating the scalp and promoting the growth of hair. J. A. Dickson. 182,405; Oct. 30.
Preparation to relieve indigestion, heartburn, and gases. I. Ehrlich. 181,113; Oct. 30.
Remedy used for seasickness, etc. Max Zeller Söhne. 177,793–4; Oct. 30.
Salve, Medicinal. Mentho Sulphur Company. 182,429; Oct. 30.
Salves. A. E. Allen. 171,782; Oct. 30.
Shampoo. Schlintz Bros. Co. 182,724; Oct. 30.
±1 Sodium hydrosulphite, ±2 sodium hydrosulphite, sodium bisulphite, etc. H. D. Kampf. 181,285; Oct. 30.
Sodium potassium, bismutho tartrate in glucose-aqueous solution. Etablissements Poulenc Frères. 173,753; Oct. 30.
Toilet preparations and theatrical perfumery. L. Leichner. 181,402–6; Oct. 30.
Vaccine, Specific. Etablissements Poulenc Frères. 173,743; Oct. 30.
Vanillin. Ungerer & Company. 182,275; Oct. 30.

CLASS 7.

Rope, etc., Manila and sisal. Edwin H. Fitler Co. 158,764; Oct. 30.
Rope, etc., Manila and sisal. Edwin H. Fitler Co. 158,859; Oct. 30.

CLASS 10.

Plaster, Land. United States Gypsum Company. 167,588; Oct. 30.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 11.

Inked ribbons. Columbia Carbon Company. 185,006; Oct. 30.

CLASS 12.

Asphalt. Hepburn Company. 183,651; Oct. 30.
Cement and other petrescent materials, magnesite flooring, and artificial blocks. H. P. Page. 183,491; Oct. 30.
Cement stucco finish. Prepared Portland. A. J. Cook & Co. 183,555; Oct. 30.
Paper, sheathing, etc., Building. Schmidt & Ault Paper Co. 183,503; Oct. 30.
Sheet-metal products, corner irons, etc. Dunco Metal Products Co. 183,471; Oct. 30.

CLASS 13.

Alarms and like safety devices, Automatic. C. L. Stokoe. 182,550; Oct. 30.
Culverts and well curbing, Metal. North Dakota Metal Culvert Co. 160,021; Oct. 30.
Door knockers numbers, flap hinges, etc. Greene, Tweed & Co. 182,514; Oct. 30.
Pipe fittings, stop cocks, and double packed stopcocks, etc., Metal. Victory Manufacturing Co. 179,565; Oct. 30.
Soap dispensers and towel racks, Combination liquid-. W. F. Findley. 175,239; Oct. 30.
Washtub covers, Enameled-metal. New York Vitreous Enamel Products Corporation. 176,643; Oct. 30.

CLASS 14.

Aluminum and aluminum base alloys. Aluminum Company of America. 180,679; Oct. 30.

CLASS 15.

Gasoline, kerosene, benzine, petroleum, etc. Sunfield Company. 183,806; Oct. 30.
Grease, Lubricating. Battenfeld Grease & Oil Company. 184,929; Oct. 30.
Oils and greases, Lubricating. A. W. Harris Oil Company. 158,084; Oct. 30.

CLASS 16.

Cleaning and polishing materials. W. H. Phelps. 175,369; Oct. 30.
Filler, Transparent gum. Peerless Finishing Co. 150,928; Oct. 30.
Oil and other oils and polishes, Lemon. Lovell Oil Company. 183,713; Oct. 30.
Paints, paint enamels, and stains. General Paint and Varnish Company. 183,271; Oct. 30.
Paint, Flat wall. General Paint and Varnish Company. 183,274; Oct. 30.
Paint enamels, flat wall finish, and varnishes. General Paint and Varnish Company. 183,275–6; Oct. 30.
Paint enamels, flat wall finish, and varnishes. General Paint and Varnish Company. 183,278; Oct. 30.
Polish, Lemon-oil. General Paint and Varnish Company. 183,280; Oct. 30.
Paint and varnish removers. General Paint and Varnish Company. 183,281; Oct. 30.
Varnish and varnish stain products. Marshall-Wells Company. 185,031; Oct. 30.
Varnish for the cementing of linoleums, etc. General Paint and Varnish Company. 183,279; Oct. 30.
Varnishes and stains. General Paint and Varnish Company. 183,282; Oct. 30.
Whiting. Grangers Manufacturing Co. 182,242–3; Oct. 30.

CLASS 17.

Cigarettes, cigars, smoking tobacco. General Tobacco Company. 184,332–3; Oct. 30.
Cigarettes, cigars, smoking tobacco. General Tobacco Company. 184,335; Oct. 30.
Cigars. Field Cigar Corporation. 177,176; Oct. 30.

CLASS 19.

Automobile accessories. Haines Manufacturing Corporation. 183,925; Oct. 30.
Vehicles, Motor-driven. American La France Fire Engine Company. 184,052; Oct. 30.
Wagons. Bain Wagon Company. 183,354; Oct. 30.

CLASS 21.

Load transformers, testing switches, etc., Artificial. Eastern Specialty Company. 176,887; Oct. 30.
Radio apparatus, Connecting plugs for. Dubilier Condenser & Radio Corp. 181,254; Oct. 30.
Radio receiving and transmitting sets and parts thereof. Baldwin Radio Electrical Manufacturing Co. 166,344; Oct. 30.
Telephone systems, Automatic. Automatic Electric Company. 183,133; Oct. 30.

CLASS 23.

Agricultural implements. Markt & Hammacher Company. 171,277; Oct. 30.
Air compressors and air and water stands. Champion Pneumatic Machinery Company. 183,553; Oct. 30.
Balls, Grinding. Bonney-Floyd Co. 164,221; Oct. 30.
Bottle filling and capping machines and dairy machinery. H. H. Miller Industries Company. 182,168; Oct. 30.
Cake-ornamenting and tin pastry tubes, etc. August Thomsen & Co. 185,389; Oct. 30.
Cylinder heads. Automatic Bearing Machine Co. 183,686; Oct. 30.
Engines, Internal-combustion. Chandler Motor Car Company. 172,145; Oct. 30.
Hammers, hatchets, saws, planes, etc. Marshall-Wells Company. 178,528; Oct. 30.
Knives, forks, spoons, etc. Gorham Manufacturing Company. 152,249; Oct. 30.
Logging and hoisting equipment. Washington Iron Works. 183,613; Oct. 30.
Machinery for use in the shoe, hat, and glove trade. Donnelly Machine Co. 182,574; Oct. 30.
Mixing and coating machines for plastic or semiliquid substances. Joseph Baker Sons and Perkins Limited. 181,332; Oct. 30.
Motors, Lever-operated. M. Victorsohn. 184,700; Oct. 30.
Motors, Vaporizer for internal-combustion. J. B. Ferry. 181,826; Oct. 30.
Mowers, Lawn. Shapleigh Hardware Company. 183,599; Oct. 30.
Needles, Sewing-machine. Union Special Machine Company. 185,635; Oct. 30.
Penknives, razors, and razor blades, etc. American Safety Razor Corporation. 181,666; Oct. 30.
Pumps, etc. Central Scientific Company. 185,445; Oct. 30.
Pumps, Vacuum. Central Scientific Company. 185,448; Oct. 30.
Razors and razor blades. International Safety Razor Corp. 181,527; Oct. 30.
Scissors, etc., Machines for grinding. Domestic Devices Corporation. 185,512; Oct. 30.
Screens, Shaking. Morrow Manufacturing Co. 184,346; Oct. 30.
Scythes and sickles. Igelfors Bruks Aktiebolag. 172,275–6; Oct. 30.
Shoe-machinery parts and supplies. Louis G. Freeman Company. 183,106; Oct. 30.
Tool handles. J. A. Turgeon. 185,324; Oct. 30.
Woodworking machines, Combination. Hutchinson Manufacturing Co. 183,835; Oct. 30.
Wrenches and parts thereof. Greene, Tweed & Co. 184,400; Oct. 30.
Wrenches, wrench sets, and alignment jigs for connecting rods, etc. Hinsdale Manufacturing Company. 183,383; Oct. 30.

CLASS 25.

Locks. Hisey-Wolf Machine Company. 183,625; Oct. 30.

CLASS 26.

Cameras, projecting lanterns, etc. Optische Anstalt C. P. Goerz Aktiengesellschaft. 167,318; Oct. 30.
Filters, Color. Carl Zeiss. 183,048; Oct. 30.
Gauges, Columbus Company. 177,897; Oct. 30.
Photographic papers, Sensitized. Gevaert Photo-Producten N. V. 184,240; Oct. 30.
Picture films, Motion-. Metro Pictures Corporation. 183,453; Oct. 30.
Pumps, Oil and gasoline measuring. Tokheim Oil Tank & Pump Co. 183,323; Oct. 30.
Speedometers and speedometer plates. Precision Speedometer Co. 183,592; Oct. 30.

CLASS 27.

Clocks. New Haven Clock Co. 184,748–51; Oct. 30.
Clocks. Phinney-Walker Company. 185,613–14; Oct. 30.
Horological instruments. M. S. Rosenberg. 180,240; Oct. 30.
Watch movements and watchcases. M. Levitz. 185,254; Oct. 30.

CLASS 29.

Brushes, Floor. M. G. Goeller's Sons. 182,740; Oct. 30.
Mops, brooms, dusters, and brushes. MacLean Drug Company. 178,757; Oct. 30.

CLASS 30.

Teapots, Porcelain. G. Barnett. 176,042; Oct. 30.

CLASS 32.

Bed springs. Simmons Company. 183,412; Oct. 30.
Shades, Window. F. C. C. Smith. 182,069; Oct. 30.
Steel equipment and furniture. M. Loewy. 174,790; Oct. 30.

CLASS 33.

Glass, Colored. Semon Bache & Company. 184,920; Oct. 30.

CLASS 34.

Heaters, Gas hot-water storage. Welsbach Co. of N. E. 178,154; Oct. 30.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Heaters, Water, fuel-oil, and evaporator water. Griscom-Russell Company. 178,099; Oct. 30.
Stoves, Alcohol. Blu-Blaze Corporation. 182,496; Oct. 30.

CLASS 35.

Belting, Leather. H. E. Whiting. 179,978; Oct. 30.
Piston rings, Seal and compensating means for. General Asbestos & Rubber Company. 170,717; Oct. 30.

CLASS 36.

Banjos. Bacon Banjo Co. 184,580; Oct. 30.
Music rolls, Perforated. United States Music Company. 182,118; Oct. 30.
Phonographs. Stettner Phonograph Corporation. 175,035; Oct. 30.
Pianos. Story & Clark Piano Co. 179,066; Oct. 30.

CLASS 37.

Napkins, Embossed. Tissue Company. 183,808; Oct. 30.
Paper. Bennington Wax Paper Company. 179,453; Oct. 30.
Paper, Bristol-board. Seaman Paper Company. 182,864; Oct. 30.
Paper, Coated cardboard. Seaman Paper Company. 182,865; Oct. 30.
Paper, Enamel book. Seaman Paper Company. 182,860–1; Oct. 30.
Paper, Enameled book. Seaman Paper Company. 182,868; Oct. 30.
Paper, Enameled book. Seaman Paper Company. 182,876; Oct. 30.
Paper, Filter. Central Scientific Company. 185,446; Oct. 30.
Paper, Ledger. Seaman Paper Company. 182,862; Oct. 30.
Paper, Manifold. Esleeck Manufacturing Co. 185,332; Oct. 30.
Paper, Manila tag. Seaman Paper Company. 182,872; Oct. 30.
Paper, Specially duplex coated. Seaman Paper Company. 182,875; Oct. 30.
Paper, Uncoated book. Seaman Paper Company. 182,863; Oct. 30.
Paper, Uncoated book. Seaman Paper Company. 182,866–7; Oct. 30.
Paper, Uncoated book. Seaman Paper Company. 182,871; Oct. 30.
Paper, Uncoated book. Seaman Paper Company. 182,877–80; Oct. 30.
Paper, Unwatermarked sulphite bond. Seaman Paper Company. 182,873; Oct. 30.
Paper, Watermarked sulphite bond. Seaman Paper Company. 182,874; Oct. 30.
Paper, Writing. Seaman Paper Company. 182,869; Oct. 30.
Paper, Writing and mimeographing. Seaman Paper Company. 182,870; Oct. 30.

CLASS 38.

Magazine, Monthly trade. Modern Confectioner Publishing Company. 162,350½; Oct. 30.
Publications, Periodical. Chicago Automobile Trade Association. 180,522–3; Oct. 30.

CLASS 39.

Cloaks, coats, suits, dresses, and skirts. Linder Bros. 185,085; Oct. 30.
Cloaks, suits, dresses, hosiery. Kellogg Drake & Co. 176,836; Oct. 30.
Clothes, Men's and young men's outer. Chas. Douglis-Mack Co. 167,803; Oct. 30.
Clothing, Outer. Lewis & Harris Handwoven Tweed Company. 171,132; Oct. 30.
Collars, scarfs, neckties, and cravats. I. Rosen. 182,062; Oct. 30.
Dresses. Ullman-Jessel, Inc. 154,774; Oct. 30.
Dresses and skirts, Ladies'. May & Loeb, Inc. 184,175; Oct. 30.
Fur coats, capes, wraps, and stoles. I. A. Hessel. 170,485; Oct. 30.
Garments used as clothing, Chest and body protecting. M. Kassler. 179,731; Oct. 30.
Hosiery. John Blood & Company. 183,817; Oct. 30.
Hosiery. Emery & Beers Company. 171,122; Oct. 30.
Hosiery. New Haven Knitting Mills. 183,883; Oct. 30.
Hosiery and knitted underwear. Theo. S. Buerger & Son. 180,960; Oct. 30.
Knitted bathing suits, sweaters, and slip-ons. Atlas Knitting Mills, Inc. 184,060; Oct. 30.
Neckwear, mufflers, sweaters, etc. T. E. Resnick. 176,761; Oct. 30.
Overalls, jumpers, shirts, etc. Rummel, Himes & Co. 183,410; Oct. 30.
Overalls, shirts, underwear, and pyjamas. King Overall Co. 183,388; Oct. 30.
Overcoats and suits, Young men's. Aaron Mintz & Sons, Inc. 181,138; Oct. 30.
Play suits. L. Schwartz. 185,382; Oct. 30.
Scarfs, cravats, and neckties. Levy & Marcus. 184,083; Oct. 30.
Shirts. S. Liebovitz & Sons, Inc. 184,287; Oct. 30.
Shirts, boys' waists and blouses, etc., Men's and boys' work and dress. Bob & Baskind. 183,356; Oct. 30.
Shirts, Work. H. B. Ferguson Co. 173,270½; Oct. 30.
Shirts, Work. Finch, Van Slyck & McConville. 183,369; Oct. 30.
Suits, pants, vests, and coats, Men's. Haspel Brothers. 181,746; Oct. 30.
Suits, sack suits, overcoats, waistcoats, etc. Heidelberg, Wolff & Co. 183,743; Oct. 30.
Sweaters and scarfs. Kaufman-Rohrlich Knitting Mills, Inc. 183,836; Oct. 30.
Undervests, corset covers, and brassières, Ladies'. Benjamin & Weil, Inc. 182,289; Oct. 30.
Underwear. Jacob Salsberg Inc. 184,265; Oct. 30.
Underwear and athletic suits, Knit. Republic Knitting Mills. 183,316; Oct. 30.
Underwear, bath robes, nightgowns, etc. P. Wolf-Goldman, Inc. 181,230; Oct. 30.

CLASS 40.

Beads. Guthman, Solomons & Co. 183,379; Oct. 30.

CLASS 42.

Cotton piece goods. Robt. J. Lebenson Corporation. 182,350; Oct. 30.
Drapery and upholstery piece goods, curtains, etc. John V. Farwell Company. 171,211; Oct. 30.
Drapery fabrics. Barbe-McKenzie Corporation. 185,197; Oct. 30.
Gingham piece goods. Herbert B. Lederer Corp. 179,804; Oct. 30.
Hair nets. A. A. Julin. 184,972; Oct. 30.
Rugs, Woven jute floor. S. Cohen & Son. 184,959; Oct. 30.
Silk fabrics. Coudurier Fructus, & Descher. 151,613; Oct. 30.
Silk piece goods. Corticelli Silk Company. 170,624; Oct. 30.
Woolen piece goods. S. Stein & Company. 184,568; Oct 30.

CLASS 43.

Thread, Cotton glazed braider. Worcester Bleach & Dye Works Co. 185,642; Oct. 30.
Threads, Silk. H. K. H. Silk Co. 173,600; Oct. 30.

CLASS 44.

Electric vibratory and heating outfits, etc. National Stamping & Electric Works. 161,698; Oct. 30.
Electronic diagnosis and electrotherapeutics, Electrical outfits for. American Institute of Rational Therapeutics. 182,956; Oct. 30.
Electronic diagonsis, Electrical outfits for. American Institute of Rational Therapeutics. 182,954; Oct. 30.
Electrotherapeutics, Treatment outfit for. American Institute of Rational Therapeutics. 182,955; Oct. 30.
Sanitary napkins. Schafuss Corporation. 183,166; Oct. 30.
Soothers, Infants'. F. Schutze and Company Limited. 180,085; Oct. 30.

CLASS 45.

Beverage sold as an orange drink and sirup for making the same. Granite State Spring Water Co. 182,302; Oct. 30.
Beverage sold as a soft drink. P. H. James. 183,627; Oct. 30.
Beverage sold as a soft drink. Soc. An. Fsco. Cinzano & Cia. 183,044; Oct. 30.
Beverages sold as soft drinks. East Side Bottling Works. 182,437; Oct. 30.
Beverages sold as soft drinks. H. S. Jenner. 183,384; Oct. 30.
Beverages sold as soft drinks. San Joaquin Grocery Co. 182,268; Oct. 30.
Beverages with fruit flavors, ginger ale, etc. L. Cohen. 184,650; Oct. 30.
Flavors and beverages made therefrom. Beverage Citrus Products Company. 184,121; Oct. 30.
Orange juice, fruit ciders. C. H. Dikeman. 182,738–9; Oct. 30.

CLASS 46.

Biscuit. National Biscuit Company. 180,233–4; Oct. 30.
Bread. Hall Baking Co. 180,861; Oct. 30.
Cake. Freihofer Baking Company. 179,787–8; Oct. 30.
Cake icing. L. A. Turck. 183,179; Oct. 30.
Candy. C. F. Blanke Candy Company. 181,107–8; Oct. 30.
Candy. Cardinet Candy Company. 179,584; Oct. 30.
Candy. Fulton Confectionery Company. 182,577; Oct. 30.
Candy. Kalifornia Kola Co. 182,590; Oct. 30.
Candy, cakes, shelled nuts, and sandwiches. O. P. Baur Conf. Co. 171,723; Oct. 30.
Canned chili. P. Baca. 179,348; Oct. 30.
Canned oysters and shrimp. Biloxi Packing & Trading Co. 170,364; Oct. 30.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Canned salmon. Hodgson and Company Limited. 180,004–7; Oct. 30.
Cheese, Cream. Breakstone Bros., Inc. 180,958; Oct. 30.
Cheese, French, etc., dressings. J. A. Caminati. 179,259; Oct. 30.
Coffee. Asmus Bros. 180,733; Oct. 30.
Custards, cakes, egg substitutes, etc. C. H. Murray. 179,310; Oct. 30.
Eggs. Kerr Chickeries Incorporated. 178,851; Oct. 30.
Feed for poultry and hogs. C. O. Sandefur. 180,301; Oct. 30.
Feed, Stock and chicken. International Milling Company. 176,408; Oct. 30.
Flour, Wheat. F. C. Atkinson. 180,462; Oct. 30.
Food for infants, Specially-prepared. Mead Johnson & Company. 182,598; Oct. 30.
Food, Nut cereal. Battle Creek Food Company. 175,703; Oct. 30.
Fruits, Dried. H. G. Coykendall. 184,599; Oct. 30.
Honey. A. I. Root Company of Texas. 181,698; Oct. 30.
Ice cream. Beatrice Creamery Company. 182,734; Oct. 30.
Malt extract. Pacific Malt & Hops Co. 163,001; Oct. 30.
Mincemeat. Oest Fruit Co. 161,446; Oct. 30.
Mincemeat. Oest Fruit Co. 161,448; Oct. 30.
Oils, Edible. Standard Oil Company of New York. 182,487; Oct. 30.
Peanuts. Lummis & Co. 102,565–6; Oct. 30.
Peanuts, Salted. Imperial Candy Company. 169,302; Oct. 30.
Relish or sandwich filler, Vegetable. Clare Food & Relish Company. 182,565; Oct. 30.
Relish or sandwich filler, Vegetable. Schlorer Delicatessen Co. 183,234; Oct. 30.
Salad dressing. S. G. Whitsitt. 183,616; Oct. 30.

CLASS 48.

Malt extract and sirup. J. A. Callegari. 184,710; Oct. 30.
Sirup and malt cereal beverages sold as a soft drink, Malt. Pabst Corporation. 181,212; Oct. 30.
Sirup and malt cereal beverages sold as a soft drink, Malt. Pabst Corporation. 181,214; Oct. 30.
Sirup for beverage purposes, Malt. P. Ballantine & Sons. 152,881; Oct. 30.

CLASS 50.

Fabrics of vulcanized sheet gum rubber, Ornamental. Brandon Mills Inc. 182,200; Oct. 30.
Tents. I. S. Purcell. 179,553; Oct. 30.
Tents. H. Wenzel Tent and Duck Co. 183,513; Oct. 30.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 30TH DAY OF OCTOBER, 1923

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abbott, Albert L., assignor to Ohio Automatic Sprinkler Company, Youngstown, Ohio. Sprinkler-head-testing device. 1,472,235; Oct. 30.
Abbott, Walter H. (See Woelfel, George F., assignor.)
Abildgaard, William, Chico, Calif. Fruit and nut harvester. 1,472,262; Oct. 30.
Acton, Edward H., Niagara Falls, N. Y., assignor to Aluminum Company of America, Pittsburgh, Pa. Machine for casting metal pigs or bars. 1,472,623; Oct. 30
Adams, Edward J. (See Morris, George T., assignor.)
Advance Furnace & Engineering Company. (See Kunitz, Hannibal H., assignor.)
Aetna Stamp Works, Inc. (See Smith, Frank E., assignor.)
Affel, Herman A., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Means for signaling over multiplex transmission channels. 1,472,035; Oct. 30.
Ahara, Edwin H., assignor to Dodge Manufacturing Company, Mishawaka, Ind. Sheet-metal hanger. 1,472,236; Oct. 30.
Akers, Milton K., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Phantomed signaling circuits. 1,472,451; Oct. 30.
Albanese, Leo, Brooklyn, N. Y. Watch. 1,472,350; Oct. 30.
Aldendorff, Fritz, Wilmersdorf, Berlin, Germany. Automatic switch for interconnecting lines. 1,472,351; Oct. 30.
Aldrich, William T., Chicopee, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Tennis racket. 1,472,202; Oct. 30.
Alfrey, William T., Seattle, Wash. Setwork. 1,472,111; Oct. 30.
Allen, Charles, El Paso, Tex. Slime-pulp thickener. 1,472,317; Oct. 30.
Allen, Grosvenor N., assignor to Oneida Community Limited, Oneida, N. Y. Spoon or similar article. Des. 63,166; Oct. 30.
Alles, William J., and S. C. Probert, assignors to Dodge Brothers, Detroit, Mich. Cylinder-lapping machine. 1,472,379; Oct. 30.
Alles, William J., and S. C. Probert, assignors to Dodge Brothers, Detroit, Mich. Lapping-machine tool. 1,472,422; Oct. 30.
Altz, Horace G., and F. F. Fearheiley, East Moline, Ill. Tire-valve tester. 1,472,712; Oct. 30.
Aluminum Company of America. (See Acton, Edward H., assignor.)
Aluminum Company of America. (See Archer, R. S., and Jeffries, assignors.)
Aluminum Seal Company. (See Shull, Frederick G., assignor.)
Amberton, Richard, London, England. Spring relief bolts and inclosures embodying same. 1,472,405; Oct. 30.
American Airship Association. (See Link, Walter, assignor.)
American Cotton Oil Company, The. (See Ingram, John C., assignor.)
American Dan Bottle Seal Corporation. (See Nordstrom, Elof, assignor.)
American Lithographic Company. (See Dietsche, Adolph, jr., assignor.)
American Multigraph Company, The. (See Gammeter, Harry C., assignor.)
American Protein Corporation. (See Atwood, Francis C., assignor.)
American Protein Corporation. (See Wescott, William B., assignor.)
American Pulley Company, The. (See Bowen, Russell H., assignor.)
American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)
American Telephone and Telegraph Company. (See Bown, R., and Nelson, assignors.)
American Telephone and Telegraph Company. (See Pike, Vernon B., assignor.)
Anderson, Emma V., Sioux City, Iowa. Folding table. 1,472,575; Oct. 30.
Anderson, Harley C. E., North Vancouver, British Columbia, Canada. Sun-sheltering cover for pneumatic tires. 1,472,033; Oct. 30.
Anderson, Olaf A., and J. M. Macrae, assignors to Michigan Machine Co., Detroit, Mich. Means for resurfacing cylinders. 1,472,036; Oct. 30.
Andrade, Cipriano, jr., New York, N. Y. Differential. 1,472,452; Oct. 30.
Angle Brace Collapsible Box Company. (See Beere, Arthur W., assignor.)
Appleberg, Edwin J., Chicago, Ill. Automatic change gear. 1,472,263; Oct. 30.
Archer, Robert S., and Z. Jeffries, Cleveland, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa. Aluminum-base alloy and treating it. 1,472,738; Oct. 30.
Archer, Robert S., and Z. Jeffries, Cleveland, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa. Aluminum-base alloy. 1,472,739; Oct. 30.
Archer, Robert S., and Z. Jeffries, Cleveland, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa. Aluminum-base alloy. 1,472,740; Oct. 30.
Asquith, Stead A., Los Angeles, Calif. Metal-working machine. 1,472,034; Oct. 30.
Assistant Secretary of Agriculture of United States of America. (See Scheffer, T. H., and Couch, assignors.)
Associated Equipment Company Limited, The. (See Edwards, Charles K., assignor.)
Atkinson, Frederick C., Indianapolis, Ind. Corncob cellulose and preparation. 1,472,318; Oct. 30.
Atlantic Refining Company, The. (See Lewis, Joseph W., assignor.)
Attwater, Richard. (See Byrom, James G., assignor.)
Atwood, Edwin W. (See Copeman, Lloyd G., assignor.)
Atwood, Francis C., Newton, assignor, by mesne assignments, to American Protein Corporation, Boston, Mass. Clamp. 1,472,380; Oct. 30.
Austin, F. C., Machinery Company. (See Loken, Truls, assignor.)
Automatic Electric Company. (See Martin, Talbot G., assignor.)
Averill, William H., Boston, assignor of one-half to A. C. Erisman, Brookline, Mass. Fountain pen. 1,472,576; Oct. 30.
Axelman, Harry W. (See Axelman, Mayer and H. W.)
Axelman, Mayer and H. W. Axelman, Chicago, Ill. Suitcase, bag or similar article. Des. 63,168; Oct. 30.
Ayres, Elwood B., assignor to Proctor & Schwartz, Inc., Philadelphia, Pa. Drier. 1,472,741; Oct. 30.
Babcock & Wilcox Company, The. (See Jacobus, David S., assignor.)
Baer, Carl A., Philadelphia, Pa. Combined power and transmission unit. 1,472,624; Oct. 30.
Baer, David H. (See Galpin, G., and Baer.)
Baer, Richard, New York, N. Y. Combination lock. 1,472,577; Oct. 30.
Bagg, Hollis B., Watertown, assignor to Scovill Manufacturing Company, Waterbury, Conn. Scale. 1,472,037; Oct. 30.
Bailey, E. G. (See Castle, W. E., and Hansard, assignors.)
Bailly, Emile W., Haverhill, Mass. Wood-heel-turning machine. 1,472,625; Oct. 30.
Ballie, William R., Mesa, Wash. Head yoke. 1,472,541; Oct. 30.
Ballie, William R., Mesa, Wash. Calf weaner. 1,472,542; Oct. 30.
Baker, Arthur F., Oakland, Calif., assignor to The Perfecto Gear Differential Co., Seattle, Wash. Driving mechanism for motor cars. Re15,711; Oct. 30.
Baker, Joseph, Sons & Perkins Limited, Messrs. (See Smith, Harold, assignor.)
Baker, William E., assignor to Wonder Trap Co. Inc., Waco, Tex. Animal trap. 1,472,423; Oct. 30.
Banes, Chesley V., Kinross, Iowa. Fastener for automobile chains. 1,472,038; Oct. 30.
Bangs, Owen M., Brooklyn, N. Y. Reenforced seal. 1,472,381; Oct. 30.
Barbey, Jacob W. (See Taylor, W. H., Downs, and Barbey.)
Barrows, Walter A., assignor to The Justrite Measuring Machine Company, Belvidere, Ill. Measuring and dispensing machine. 1,472,112; Oct. 30.
Bassett, William T., Richmond, Va. Fire escape. 1,472,203; Oct. 30.
Bastian, Arthur J., Wilkinsburg, Pa., assignor to Western Electric & Manufacturing Company. Gear wheel. 1,472,147; Oct. 30.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 1,472,039; Oct. 30.
Bates Valve Bag Company. (See Pomeroy, Le Dru R., assignor.)

Bauer, John, Detroit, Mich. Storm shield. 1,472,287; Oct. 30.

Bausch & Lomb Optical Company. (See Drescher, Theodore B., assignor.)

Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Automatic air-feed and rotation-motor control for rock drills. 1,472,040; Oct. 30.

Bayles, Lewis C., and F. M. Slater, Easton, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J. Locking device for independent rotation motors. 1,472,382; Oct. 30.

Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Oiling device for rock drills. 1,472,424; Oct. 30.

Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Folding machine. 1,472,041; Oct. 30.

Beck, Michael, Minneapolis, Minn. Fuel vaporizer for explosive engines. 1,472,264; Oct. 30.

Beckman, Jacob H., Oakland, Calif. Box handle. 1,472,508; Oct. 30.

Beckmann, Ernst, Berlin-Dahlem, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Preparing a fodder from straw or other materials characterized by their contents of raw fibers. 1,472,319; Oct. 30.

Beckmann, Ernst, Berlin-Dahlem, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Preparing a fodder from straw or other materials characterized by their contents of raw fiber. 1,472,320; Oct. 30.

Beckmann, Ernst, Berlin-Dahlem, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Preparing a fodder from straw or other materials characterized by their contents of raw fibers. 1,472,321; Oct. 30.

Beckmann, Ernst, Berlin-Dahlem, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Preparing a fodder from straw—e. g., of corn or legumes. 1,472,322; Oct. 30.

Beere, Arthur W., assignor to Angle Brace Collapsible Box Company, Limited, Auckland, New Zealand. Wire-bending machine. 1,472,543; Oct. 30.

Bell, Charles M., Schenectady, N. Y. Cab turret. 1,472,265; Oct. 30.

Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Printing telegraphy. 1,472,453; Oct. 30.

Belk, Harold F., East St. Louis, Ill. Swing. 1,472,578; Oct. 30.

Belsinger, Samuel P. (See Shurick, Edward P., assignor.)

Bendernagel, William H., Queens, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone transmission system. 1,472,237; Oct. 30.

Benedict, George H., Chicago, Ill., assignor to Powers Photo Engraving Company, New York, N. Y. Means for cooling photomechanical printing plates. 1,472,454; Oct. 30.

Benson, Harry F. (See Griffiths, F. H., and Benson.)

Benson, Thomas, Washington, D. C. Cord tightener for awning operators. 1,472,742; Oct. 30.

Bergholz, August F. (See Johnson, C. O., and Bergholz.)

Berkey, George P., Wisconsin Rapids, Wis. Treating paper pulp stock to insure uniform consistency. 1,472,238; Oct. 30.

Berliner, Emile, Washington, D. C. Helicopter. 1,472,148; Oct. 30.

Bermes, John W. (See Patrick, H. E., Peterson, and Bermes.)

Bernard, Bernard M., Sioux City, Iowa. Combination smoker's set. 1,472,149; Oct. 30.

Betterly, Roland O. (See Hughes, C. C., and Betterly.)

Bettinardi, Anton, Jersey City, N. J. Clothesline clamp. 1,472,042; Oct. 30.

Bigham, Herbert V., Roaring Springs, Tex. Flower stand. Des. 63,168; Oct. 30.

Bigham, Herbert V., Roaring Springs, Tex. Flower stand. Des. 63,169; Oct. 30.

Bilham, William C., Southampton, England. Tire for wheels of road vehicles. 1,472,383; Oct. 30.

Bitter, Reuben H., assignor to The Thal & Bitter Co., Toledo, Ohio. Spotlight mounting. 1,472,509; Oct. 30.

Blackburn, Arthur H., Downers Grove, and F. E. Fleming, Chicago, Ill., assignors to The Underfeed Stoker Company of America, Chicago, Ill. Side-dump underfeed furnace. 1,472,579; Oct. 30.

Blackstone Manufacturing Company. (See Oberg, Gunnard A., assignor.)

Blair, Shiras A., Indianapolis, Ind. Automatic sound-reproducing instrument. 1,472,743; Oct. 30.

Blaine, Joseph R., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Water fountain. 1,472,626; Oct. 30.

Blanchard, James A. (See McCown, T. D., and Blanchard.)

Blattner, David G., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing circuits. 1,472,455; Oct. 30.

Bloodgood, Vivian C. (See Hawkins, W. G., and Bloodgood.)

Boardman, Albert, Hamilton, Ontario, Canada, assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for treating glass. 1,472,456; Oct. 30.

Boeckly, Paul. (See Mayer, H., Schlatter, and Boeckly.)

Soda, Joseph, assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Power lift for plows. 1,472,627; Oct. 30.

Boge, Adolf, Solingen, Germany. Lock. 1,472,043; Oct. 30.

Böker, Hermann Heinrich, & Co. (See Grimme, Johannes, assignor.)

Bonk, Frank, jr., Ripon, Wis. Automatic loop setter for motion-picture machines. 1,472,628; Oct. 30.

Boomsliter, Charles C., Grand Rapids, Mich. Differential gear for automobiles. 1,472,629; Oct. 30.

Bonner, Richard S., La Grange, Ark. Cotton-thinning machine. 1,472,288; Oct. 30.

Boss, William, St. Paul, Minn. Humidifier. 1,472,150; Oct. 30.

Boston Machine Works Company. (See Osgood, Walter P., assignor.)

Bostroem, August. (See Schwartz, S. R., and Bostroem.)

Bourquenville, Eugene M., Jersey City, N. J. Rotary valve. 1,472,113; Oct. 30.

Bourque, David, assignor to G. W. J. Murphy Company, Amesbury, Mass. Fastener for automobile hoods and the like. 1,472,630; Oct. 30.

Bouton, Edgar M., Wilkinsburg, and R. Pruger, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Brake. 1,472,151; Oct. 30.

Bowman, Herman N., assignor to Western Electric Company, Incorporated, New York, N. Y. Magnetic coil. 1,472,631; Oct. 30.

Bown, Ralph, and E. L. Nelson, East Orange, N. J., assignors to American Telephone and Telegraph Company. Radio wire connecting circuits. 1,472,289; Oct. 30.

Bowen, Russell H., assignor to The American Pulley Company, Philadelphia, Pa. Sash pulley. 1,472,765; Oct. 30.

Boye Needle Company, The. (See Carlson, Gustav A., assignor.)

Brandtjen & Kluge Incorporated. (See Kluge, Abel and E., assignors.)

Bressler, Robert E., Hammond, Ind. Automotive material excavating, moving, and surfacing machine. 1,472,580; Oct. 30.

Brewer, Johnson, Ferris, Tex. Flour sifter. 1,472,204; Oct. 30.

Briddell, Charles D., Crisfield, Md. Forming die. 1,472,406; Oct. 30.

Briddell, Charles D., Crisfield, Md. Machine for shaping tong handles. 1,472,510; Oct. 30.

Brill, Abram, Spartanburg, S. C. Service box for switches. 1,472,152; Oct. 30.

Brinkman, Louis G., assignor to The Safety Automatic Toy Company, Dayton, Ohio. Toy pistol. 1,472,153; Oct. 30.

Britt, Joseph, New York, N. Y. Welding electrode holder. 1,472,581; Oct. 30.

Brogan, James A., Lawrence, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method and apparatus for producing nail strings. 1,472,044; Oct. 30.

Brooks, Charles W., assignor of one-half to A. W. Cobb, Huntsville, Ala. Boll-weevil exterminator. 1,472,544; Oct. 30.

Broomall, Samuel E., Wilmington, Del. Traction appliance for vehicle wheels. 1,472,511; Oct. 30.

Broughton, George A. (See Holland, I. G., and Broughton.)

Brown, Charles H., Breckenridge, Tex. Fishing tool. 1,472,713; Oct. 30.

Brown, Charles H., Breckenridge, Tex. Collapsible socket. 1,472,714; Oct. 30.

Brown, Harry M., Union, N. Y. Automobile wheel. 1,472,352; Oct. 30.

Brown, James M., assignor to Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. Bus-bar-supporting structure. 1,472,154; Oct. 30.

Brown, Joseph R., Fresnillo, Mexico. Airtight pipe coupling. 1,472,290; Oct. 30.

Brown, Myron A., New York, N. Y. Swinging and sliding door construction. 1,472,457; Oct. 30.

Brown, Phelps, Springfield, Mass. Actuating mechanism for magnetos. 1,472,545; Oct. 30.

Brown, Phelps, and I. E. Hendrickson, assignors to Wico Electric Company, Springfield, Mass. Trip finger for magnetos. 1,472,546; Oct. 30.

Brown, Robert M. (See Schaefer, C. P., and Brown.)

Brown, Walter A., Los Angeles, Calif. Separating hydrocarbons from water. 1,472,384; Oct. 30.

Brown, Walter A., Los Angeles, Calif. Separating hydrocarbons from water. 1,472,385; Oct. 30.

Browne, Anna H., executrix. (See Browne, Arthur B.)

Browne, Arthur B., deceased, Hartford, Conn.; A. H. Browne, executrix. Friction clutch. 1,472,114; Oct. 30.

Brueggeman, Albert L., Newark, N. J. Steam boiler. 1,472,045; Oct. 30.

Brundage, James W., assignor to The Miller Rubber Co., Akron, Ohio. Selvage-edge-cutting machine. 1,472,547; Oct. 30.

Brunell, Homer A. (See Burtnett, Everett R., assignor.)

Brunner, Albert H., Marion, Ill. Cooking utensil. 1,472,205; Oct. 30.

Brush, Alanson P., Detroit, Mich. Internal-combustion engine. 1,472,426; Oct. 30.

Buckingham, Jay A., Alta, Iowa. Corn picker. 1,472,407; Oct. 30.

Budd, Frank P., Bonesteel, S. Dak. Shoe-polish container. 1,472,632; Oct. 30.

Buedingen, Robert, Rochester, N. Y. Container. 1,472,582; Oct. 30.

Buell, William H., Bronxville, N. Y., assignor, by mesne assignments, to Conversion Products Corporation. Coating composition for metals and making same. 1,472,239; Oct. 30.

Burkle, William, Glendale, N. Y. Combination chain lock. 1,472,206; Oct. 30.

Burns, Helen S., East Dubuque, Ill. Nursery chair. 1,472,328; Oct. 30.

Burt, F. N., Company. (See Carle, Harold, assignor.)

Burtnett, Charles A. (See Burtnett, Everett R., assignor.)

Burtnett, Everett R., assignor of one-half to H. A. Brunell, Los Angeles, Calif. Valve mechanism for internal-combustion engines. 1,472,548; Oct. 30.

Burtnett, Everett R., assignor of one-half to C. A. Burtnett, Los Angeles, Calif. Internal-combustion engine. 1,472,549; Oct. 30.

Butler, Charles H., and H. H. Jones, assignors to E. F. Houghton & Company, Philadelphia, Pa. Making packing rings. 1,472,744; Oct. 30.

Butterfield, Jay L. (See Gillette, R. T., and Butterfield.)

Byrom, James G., Heaton Chapel, assignor to R. Attwater, Lancaster, England. Manufacture of formaldehyde condensation products of phenols. 1,472,353; Oct. 30.

Cady, Walter G., Middletown, Conn. Maintaining electric currents of constant frequency. 1,472,583; Oct. 30.

Campbell, John C., Clarksburg, W. Va. Blowpipe for glass-making apparatus. 1,472,291; Oct. 30.

Campbell, John D., assignor to Detroit Stoker Company, Detroit, Mich. Fuel hopper for automatic stokers. 1,472,427; Oct. 30.

Cantrell, Addie E., Camp Point, Ill. Dispensing device. 1,472,046; Oct. 30.

Capocci, Pompeo, Providence, R. I. Signal indicator for automobiles. 1,472,550; Oct. 30.

Capocci, Pompeo, Providence, R. I. Coffee urn. 1,472,551; Oct. 30.

Carbide & Carbon Chemicals Corp. (See Curme, G. O., jr., and Thompson, assignors.)

Carle, Harold, Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Canada. Paper-cup dispenser. 1,472,584; Oct. 30.

Carlson, Gustav A., assignor to The Boye Needle Company, Chicago, Ill. Hasp. 1,472,512; Oct. 30.

Carlson, Otto M., assignor to Crane Co., Chicago, Ill. Lapping metal pipes. 1,472,047; Oct. 30.

Carpenter, W. D., Company. (See Stapley, Philip H., assignor.)

Carr, Charles M., Los Angeles, Calif. Girdle or corset. 1,472,552; Oct. 30.

Carter, Ray M., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Making ester condensation products. 1,472,324; Oct. 30.

Cartlidge, Harry B., Oregon City, Oreg. Valve lifter for internal-combustion motors. 1,472,354; Oct. 30.

Case, Carroll H., St. Louis County, and W. C. Farrar, St. Louis, Mo. Booster for siphons. 1,472,428; Oct. 30.

Case, Henry J., Poughkeepsie, N. Y., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Corn harvester and binder. 1,472,429; Oct. 30.

Castle, William E., and R. L. Hansard, Graham, Tex., assignors of one-third to E. G. Bailey, Richmond, Va. Dauber. 1,472,408; Oct. 30.

Cavanagh, John, South Norwalk, Conn., assignor to The Crofut & Knapp Company, New York, N. Y. Hatbox. 1,472,430; Oct. 30.

Cazenove, James O. H., New York, N. Y. Mixer. 1,472,292; Oct. 30.

Chain Belt Company. (See Roddy, Gustav R., assignor.)

Chapman, Earle E., Los Angeles, Calif., assignor to Miller-Chapman Company. Wire-rope shackle for automobile wheels. 1,472,155; Oct. 30.

Chase, Aurin M., Syracuse, N. Y. Endless-belt tractor. 1,472,431; Oct. 30.

Chatfield, Earl L., West Tulsa, Okla. Outlet valve for tank cars. 1,472,293; Oct. 30.

Chemical Foundation, Inc., The. (See Beckmann, Ernst, assignor.)

Chemical Foundation, Inc., The. (See Hildebrandt, Paul, assignor.)

Chemical Foundation, Incorporated, The. (See Joyce, A. Willard, assignor.)

Chemical Foundation, Inc., The. (See Zeissler, Johannes K., assignor.)

Chinzeris, Peter, Atlanta, Ga. Self-locking seal for gas and other meters. 1,472,745; Oct. 30.

Chiron, Hippolyte M., New York, N. Y. Appliance for cleaning windows from the inside. 1,472,240; Oct. 30.

Christensen, Jens H., Holte, Denmark. Hardening of photographic films. 1,472,048; Oct. 30.

Clark, Alfred L., Wellsville, Ohio. Endless conveyer. 1,472,049; Oct. 30.

Clark, Edgar H., Richmond Hill, assignor to Western Electric Company, Incorporated, New York, N. Y. Number-indicating system. 1,472,458; Oct. 30.

Clark, Everett E., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Tube feeding chain mechanism for Axminster looms. 1,472,459; Oct. 30.

Clark, Louis F., Potrerillos, Chile. Treating solutions of metals. 1,472,115; Oct. 30.

Clausen, Henry P., Mount Vernon, and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,472,460; Oct. 30.

Clayden, Arthur, Richmond, England. Sling or grip for sack lifting and other purposes. 1,472,325; Oct. 30.

Clean Food Packing Machine Company. (See Du Pont, A. I., and Harding, assignors.)

Cloyd, Oliver H., assignor to C. E. Walker, Peoria, Ill. Manifold and preheater. 1,472,326; Oct. 30.

Cobb, Anna W. (See Brooks, Charles W., assignor.)

Cocke, William H. H., jr. (See Smart, H. A., and Cocke.)

Cody, Martin T., J. Gray, and K. Forbes, Flint, assignors to General Motors Corporation, Detroit, Mich. Combined jamb and buffer for automobile doors. 1,472,715; Oct. 30.

Cole, Leonard J., and E. C. Hauck, assignors to Tri-Me Manufacturing Co. Inc., Buffalo, N. Y. Combined cleaner, rain deflector, and light guard for windshields. 1,472,553; Oct. 30.

Coles, George J., deceased; S. G. Coles executrix, Gatesbead, England. Automatic coupling for railway and similar vehicles. 1,472,241; Oct. 30.

Coles, Sarah G., executrix. (See Coles, George J.)

Colpitts, Edwin H., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Multiplex signaling system. 1,472,585; Oct. 30.

Colvin, Isaac E., assignor to The Pfaudler Company, Rochester, N. Y. Spray coil. 1,472,586; Oct. 30.

Comber, Joseph I., Philadelphia, Pa. Device for the promotion of piety, religious devotion, and high idealistic sentiments. 1,472,746; Oct. 30.

Comstock, Roger H., Milford, Conn. Flowerpot handle. 1,472,461; Oct. 30.

Conrad, Henry O., Bear Grove Township, Guthrie County, Iowa. Clutch-pedal-operating device. 1,472,513; Oct. 30.

Conversion Products Corporation. (See Buell, William H., assignor.)

Cook, Howard B., Norwood, assignor to The Warner Elevator Manufacturing Company, Cincinnati, Ohio. Cable equalizer. 1,472,386; Oct. 30.

Copeman, Lloyd G., assignor to E. W. Atwood, Flint, Mich. Refrigerating apparatus. 1,472,266; Oct. 30.

Copeman, Lloyd G., assignor to E. W. Atwood, Flint, Mich. Refrigerating apparatus. 1,472,267; Oct. 30.

Cordell, Robert A., Norfolk, Va. Hedge trimmer. 1,472,633; Oct. 30.

Couch, Leo K. (See Scheffer, T. H., and Couch.)

Courtney, Arnold A., Ottumwa, Iowa. Cattle-horn weight. 1,472,207; Oct. 30.

Covi, John B., Far Rockaway, N. Y., assignor, by mesne assignments, to White Products Company, Chicago, Ill. Hood fastener. 1,472,242; Oct. 30.

Cox, Stephen A. D., Ontario, Calif. Gas burner. 1,472,554; Oct. 30.

Crane Co. (See Carlson, Otto M., assignor.)

Creazzo, Saverio, New York, N. Y. Cigarette and match dispensing receptacle. Des. 63,173; Oct. 30.

Crocker, Irvin A., Kankakee, Ill. Hose reel. 1,472,747; Oct. 30.

Crofut & Knapp Company, The. (See Cavanagh, John, assignor.)

Crompton & Knowles Loom Works. (See Clark, Everett E., assignor.)

Crowder, Joseph W., Seminary Hill, Tex. Lawn trimmer. 1,472,587; Oct. 30.

Crowell, Erd V., Tulsa, Okla. Oil or gas well. 1,472,555; Oct. 30.

Crowley, James B. (See Richardson, Ulysses M., assignor.)

Cryan, William H., assignor of one-half to G. F. Verbulst, one-sixth to R. J. Danis, one-sixth to W. F. Fox, and one-sixth to H. R. Findlay, Woonsocket, R. I. Muffler cut-out. 1,472,514; Oct. 30.

Cummings, Bernard F. (See Taylor, A. J., jr., and Harper, assignors.)

Cunningham, Ira, and R. W. Way, Covington, Okla. Explosion engine. 1,472,634; Oct. 30.

Curme, George O., jr., and H. E. Thompson, Clendenin, W. Va., assignors to Carbide & Carbon Chemicals Corp. Purifying chlorine and other corrosive gases. 1,472,294; Oct. 30.

Curtis, Augustus D., Chicago, Ill. Lighting fixture. 1,472,050; Oct. 30.

Daladie, John L., assignor to System Machine Works, Stockton, Calif. Water pump for motor vehicles. 1,472,243; Oct. 30.

Dahms, Hugo, Berlin, Germany. Means for attaching stockings, socks, or the like to suspenders. 1,472,327; Oct. 30.

Dallas, Granvil F., Knoxville, Tenn. Tire-handling device. 1,472,556; Oct. 30.

Daly, John A., New Rochelle, N. Y., assignor to Gold Sealed Denture Process Co., Inc. Coating. 1,472,244; Oct. 30.

Daly, John A., Rochelle Park, New Rochelle, N. Y., assignor to Gold Sealed Denture Process Co., Inc. Artificial denture and producing same. 1,472,245; Oct. 30.

Dandrieux, Auguste, assignor to Société Anonyme Anciens Ateliers A. Dandrieux, Paris, France. Machine for sharpening pencils. 1,472,557; Oct. 30.
Daniel, Paul, Boundbrook, N. J. Throttle heater. 1,472,246; Oct. 30.
Daniels, Ernest S., Washington, D. C. Packing case or box structure. 1,472,635; Oct. 30.
Danis, Romeo J., et al. (See Cryan, William H., assignor.)
Davenport, Ransom W., Detroit, Mich. Refrigerating machine. 1,472,432; Oct. 30.
Davey, Wheeler P., Schenectady, N. Y., assignor to General Electric Company. Making emulsions. 1,472,716; Oct. 30.
Davis, Fred M., Chicago, Ill. Household appliance. 1,472,051; Oct. 30.
Davis, Fred M., Chicago, Ill. Electrosteam radiator. 1,472,052; Oct. 30.
Davis, Irvin W., assignor to The Midland Company, South Milwaukee, Wis. Door hanger. 1,472,156; Oct. 30.
Davis, Theron, New York, N. Y. Mold for rubber goods. 1,472,053; Oct. 30.
Dawer, Antonio, assignor to R. M. Wright, Philadelphia, Pa. Floor-cleaning machine. 1,472,208; Oct. 30.
De Luxe Brush Company, The. (See Heinitsh, W. W., Shalkop, and Lauterbach, assignors.)
Denayer, Auguste, Brussels, Belgium. Combination lock. 1,472,409; Oct. 30.
Denver Rock Drill Manufacturing Company, The. (See Hoskin, William, assignor.)
Denver Rock Drill Manufacturing Company, The. (See Scheib, Peter, assignor.)
Detroit Stoker Company. (See Campbell, John D., assignor.)
De Vignier, Robert M. (See Forsberg, O. F., and de Vignier.)
De Port, Theophile, Dayton, Ohio. Fruit peeler. 1,472,462; Oct. 30.
Dewend, William D., assignor to Oliver Chilled Plow Works, South Bend, Ind. Agricultural implement. 1,472,209; Oct. 30.
Deyl, Václav O., Vinor, Bohemia. Turnip-gathering device. 1,472,328; Oct. 30.
Dickescheid, Josef, assignor to the Firm: Dr. H. Zehrlaut & Co., Mainz, Germany. Backing-off lathe. 1,472,636; Oct. 30.
Dickinson, Harry S., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Gang-adjusting device for harrows. 1,472,515; Oct. 30.
Dickinson, Harry S., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Wheeled plow. 1,472,637; Oct. 30.
Dickinson, Harry S., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Wheeled plow. 1,472,768; Oct. 30.
Dickman, Richard F., Bristol, Ind. Artificial fish bait. 1,472,638; Oct. 30.
Dietsche, Adolph, jr., assignor to American Lithographic Company, New York, N. Y. Collapsible display device. 1,472,355; Oct. 30.
Dodds, Ethan I., Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. 1,472,387; Oct. 30.
Dodds, Ethan I. (See Flannery, J. R., and Dodds.)
Dodge Brothers. (See Alles, W. J., and Probert, assignors.)
Dodge Manufacturing Company. (See Ahara, Edwin H., assignor.)
Doherty, Henry L., New York, N. Y. Distilling oil. 1,472,116; Oct. 30.
Donnelly, George W., Rouzerville, Pa. Treating piston and cylinder surfaces. 1,472,295; Oct. 30.
Dorey, William A., Newark, Ohio, assignor to Holophane Glass Company, Inc., New York, N. Y. Indirect-lighting unit. 1,472,639; Oct. 30.
Downing, Alexander J., et al. (See Wentling, Lester M., assignor.)
Downing, Robert H., sr., et al. (See Wentling, Lester M., assignor.)
Downing, Robert H., jr., et al. (See Wentling, Lester M., assignor.)
Downs, Charles W. (See Taylor, W. H., Downs, and Barbey.)
Dover, George W., Cranston, R. I. Auxiliary windshield. 1,472,356; Oct. 30.
Drüger, Alexander B., Lubeck, Germany. Respiratory apparatus. 1,472,117; Oct. 30.
Drake, Robert Z., Omaha, Nebr. Stabilizing means for bridges. 1,472,055; Oct. 30.
Drake, Robert Z., Omaha, Nebr. Unloading machine. 1,472,054; Oct. 30.
Dreis, Edward J., San Francisco, Calif. Combined angle shear and notcher. 1,472,329; Oct. 30.
Drescher, Theodore B., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Device for positioning lens blanks on blank holders. 1,472,748; Oct. 30.
Dronsfield, James, Oldham, England. Multiple-purchase jack. 1,472,357; Oct. 30.
Drumm, Charles F., jr. (See Frins, M. C., and Drumm.)
Du Bose, Thomas M. (See Fairley, T. J. and Du Bose.)
Dudley, Edward F., Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Mounting for printing-press form and vibrator rollers. 1,472,433; Oct. 30.
Dula, Robert B., New York, N. Y. Making building blocks. 1,472,516; Oct. 30.
Duncan, Thomas S. (See Pierson, R. K., and Duncan.)
Du Pont, Alfred I., Wilmington, Del., and H. R. Harding, Baltimore, Md., assignors to Clean Food Packing Machine Company, Wilmington, Del. Scalding apparatus for tomato-peeling machines. 1,472,717; Oct. 30.
Dye, Glen M., Minneapolis, Minn. Photoprinting mask. 1,472,640; Oct. 30.
Dykema, Jacob, Muskegon, Mich. Window ventilator. 1,472,056; Oct. 30.
Eaves, Augustus J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph repeating system. 1,472,463; Oct. 30.
Edelin, James N., assignor to Novelties Mfg.-Sales Corporation, Washington, D. C. Coin-holding device. 1,472,268; Oct. 30.
Edwards, Charles K., Chingford, London, assignor to The Associated Equipment Company Limited, Westminster, London, England. Control gear for electric driving mechanism. 1,472,358; Oct. 30.
Electric Milker Corporation. (See Gessler, Frederick A, assignor.)
Elgin National Watch Company. (See Williams, Lois M., assignor.)
Ellis, Charles E., Washington, D. C., assignor of one-tenth to H. Ridder, New York, N. Y. Address plate and index card. 1,472,057; Oct. 30.
Ellis, Ernest L., Fulton, N. Y. Rail joint. 1,472,157; Oct. 30.
Ellis, Llewellyn M., Ward End, Birmingham, England, assignor to The Timken Roller Bearing Company, Canton, Ohio. Apparatus for gauging rollers and other articles. 1,472,589; Oct. 30.
Ellison, William A., assignor to D. F. Murphy, Salem, Mass. Inside pipe wrench. 1,472,464; Oct. 30.
Emmons, Herbert I., Lawrence, Mass. Shuttle-check means for looms. 1,472,296; Oct. 30.
Empire Notion Company. (See Hawes, Arthur L., assignor.)
Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Rolling machine. 1,472,058; Oct. 30.
Ericsson, John E. (See Lindgren, Waldemar L., assignor.)
Erisman, Arthur C. (See Averill, William H., assignor.)
Eschert, Herman, Long Island City, N. Y. Hot-water heating unit. 1,472,059; Oct. 30.
Etrich, Igo, Grunwald, near Munchen, Germany, and R. Wannenmacher, Trautenau, Czechoslovakia. Coal-cutting machine and tool. 1,472,641; Oct. 30.
Evans, Frank R., Zanesville, Ohio. Cloth stitching and cutting machine. 1,472,410; Oct. 30.
Evans, Oscar L., Excelsior, Minn. Eraser-cleaning machine. 1,472,060; Oct. 30.
Evans, William L., jr., Washington, Ind. Composite wall and constructing it. 1,472,642; Oct. 30.
Fairbourn, George W., Salt Lake City, Utah. Weeder. 1,472,749; Oct. 30.
Fairley, Taliaferro J., and T. M. Du Bose, Hattiesburg, Miss.; said Du Bose assignor to said Fairley. Extracting pine oil, turpentine, and resinous products from wood. 1,472,118; Oct. 30.
Fairley, Taliaferro J., Hattiesburg, Miss. Treating vegetable matter for the production or extraction of oils, resinous substances, etc. 1,472,119; Oct. 30.
Falconer, Edward A., London, England. Lock and indicator for holding and locating keys, tools, and other portable articles. 1,472,297; Oct. 30.
Fall, Arthur J., Iowa Falls, Iowa. Animal trap. 1,472,210; Oct. 30.
Fallier, Maurice L., assignor to The Nu-Way-Radiator Mfg. Co., Arkansas City, Kans. Radiator. 1,472,158; Oct. 30.
Farrar, Jethro O., Elkton, Va. Collapsible coop. 1,472,159; Oct. 30.
Farrar, William C. (See Case, C. H., and Farrar.)
Fearheiley, Fred F. (See Altz, H. G., and Fearheiley.)
Federwitz, Theodore A. (See Nitsch, C. H., and Federwitz.)
Ferdinand, John E., jr., et al. (See Simonton, Frank H., assignor.)
Ferban, Matthew D. (See Sweet, M. A., and Ferban.)
Fessenden, Reginald A., Brookline, R. L. Williams, Newton, and E. C. Wood, Somerville, Mass., assignors to Submarine Signal Company, Portland, Me. Directional receiving of submarine signals. 1,472,558; Oct. 30.
Fessler, Albert, High Bridge, N. J. Dust cap for tire valves and the like. 1,472,160; Oct. 30.
Finch, Ray C., Spokane, Wash. Screw jack. 1,472,388; Oct. 30.
Findlay, Harold B., et al. (See Cryan, William H., assignor.)
Fine, Bernard M., Deptford Township, Gloucester County, assignor to Samuel M. Langston Company, Camden, N. J. Clutch-operating mechanism. 1,472,411; Oct. 30.
Finkeldey, William H., and W. M. Peirce, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Manufacture of dry-battery cans. 1,472,359; Oct. 30.

Fisk Rubber Company, The. (See Scherner, John, assignor.)
Flannery Bolt Company. (See Dodds, Ethan I., assignor.)
Flannery Bolt Company. (See Flannery, John R., assignor.)
Flannery Bolt Company. (See Flannery, J. R., and Dodds, assignors.)
Flannery, John R., assignor to Flannery Bolt Company, Pittsburgh, Pa. Making stay bolts. 1,472,390; Oct. 30.
Flannery John R., Pittsburgh, Pa., and E. I. Dodds, Central Valley, N. Y., assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. 1,472,389; Oct. 30.
Fleming, Edgar C. (See Fleming, H. D., Matthews, and Fleming.)
Fleming, Frank E. (See Blackburn, A. H., and Fleming.)
Fleming, Herbert D., L. F. Matthews, New Kensington, and E. C. Fleming, Renfrew, Pa. Combined filler plug and valve. 1,472,643; Oct. 30.
Flintkote Company, The. (See Overbury, Frederick C., assignor.)
Florence Manufacturing Company. (See Graul, William F., assignor.)
Folberth Auto Specialty Company, The. (See Folberth, Fred G. and W. M., assignors.)
Folberth, Fred G., and W. M. Folberth, assignors to The Folberth Auto Specialty Company, Cleveland, Ohio. Windshield cleaner. 1,472,644; Oct. 30.
Folberth, William M. (See Folberth, Fred G. and W. M.)
Foley, Philip J., Chicago, Ill. Greenhouse and conservatory. 1,472,120; Oct. 30.
Foley, William P., and R. W. Knupp, Somerset, Pa. Gate. 1,472,645; Oct. 30.
Forbes, Kingston. (See Cody, M. T., Gray, and Forbes.)
Ford, Bruce, Philadelphia, Pa. Terminal seal for storage batteries. 1,472,391; Oct. 30.
Ford, Hannibal C., Jamaica, assignor to Ford Instrument Company, Inc., New York, N. Y. Calculating instrument. 1,472,590; Oct. 30.
Ford Instrument Company. (See Ford, Hannibal C., assignor.)
Ford, Matthew A., Davenport, Iowa. Headlight for vehicles. 1,472,061; Oct. 30.
Forsberg, Oscar F., Yonkers, and R. M. de Vignier, Hollis, assignors to Western Electric Company, Incorporated, New York, N. Y. Automatic switch. 1,472,465; Oct. 30.
Forsslund, Nils R., Vasteras, Sweden. Electric steam and hot-water boiler. Re15,710; Oct. 30.
Fortescue, Charles L., Pittsburgh, and L. J. Hibbard, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. System of control. 1,472,131; Oct. 30.
Fournier, Joseph, Central Falls, R. I. Bobbin holder. 1,472,591; Oct. 30.
Fox, Fred, Lima, Ohio. Automobile signal. 1,472,592; Oct. 30.
Fox, William F., et al. (See Cryan, William H., assignor.)
Franklin, H. H., Mfg. Company. (See Yarian, James L., assignor.)
Fraser, James, Edgemoor, Del. Curtain support. 1,472,766; Oct. 30.
Freedman, Louis. (See Funk, C., and Freedman.)
Friedmann, Firm of Alex. (See Hajek, Otto, assignor.)
Frins, Maximilian C., and C. F. Drumm, jr., assignors to International Motor Company, New York, N. Y. Brake rigging for rail cars. 1,472,360; Oct. 30.
Froussard, Albert F., St. Louis, Mo. Pump. 1,472,062; Oct. 30.
Fry, Patrick H., Wheeling, W. Va., assignor of one-fourth to C. F. Kelsey, G. H. Mahstedt, and R. H. Mook, Fort Worth, Tex. Wrecking tool. 1,472,517; Oct. 30.
Fry, Walter L., New Rochelle, N. Y. Waterproof garment. 1,472,330; Oct. 30.
Fudge, Raymond R., Fort Worth, Tex. Automobile gear-shift-lever grip. Des. 63,170; Oct. 30.
Fudge, Raymond R., Forth Worth, Tex. Automobile gear-shift-lever grip. Des. 63,171; Oct. 30.
Fulford, Peter W. (See Hedstrom, Gustav W., assignor.)
Fulfs, John F., Los Angeles, Calif. Sales-slip holder. 1,472,559; Oct. 30.
Funk, Casimir, and L. Freedman, assignors to H. A. Metz, New York, N. Y. Derivative of suprarenin and preparing the same. 1,472,298; Oct. 30.
Gallistel, Clarence, assignor to Sefton Manufacturing Corporation, Chicago, Ill. Package for wall paper, etc. 1,472,211; Oct. 30.
Galpin, George, and D. H. Baer, Detroit, Mich., assignors to Morgan & Wright. Electrically-controlled power-cut-out safety device. 1,472,212; Oct. 30.
Gammeter, Harry C., Cleveland Heights, assignor to The American Multigraph Company, Cleveland, Ohio. Mechanism for feeding tags, cards, etc. 1,472,466; Oct. 30.
Garand, John C. (See Kewish, John T., assignor.)
Gardner Textile Co. (See Reeves, Frank, assignor.)
Garroway, Leon. (See Schnitzer, L. M., Garroway, and Gelfman.)
Gaster, Orrin J. (See Kill, V. P., and Gaster.)
Gato, Juan A., Miranda de Ebro, Spain. Alarm taximeter. 1,472,162; Oct. 30.
Gay, George L., Philadelphia, Pa., assignor to W. C. McTarnahan and N. Stevenson, Boston, Mass. Pan-greasing machine. 1,472,163; Oct. 30.
Gehrke, Frederick W., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa. Globe for lighting fixtures. Des. 63,172; Oct. 30.
Gelfman, Nathan. (See Schnitzner, L. M., Garroway, and Gelfman.)
General American Tank Car Corporation. (See Nelson, Axel M., assignor.)
General Electric Company. (See Davey, Wheeler P., assignor.)
General Electric Company. (See Gillette, R. T., and Butterfield, assignors.)
General Electric Company. (See Thomson, Elihu, assignor.)
General Motors Corporation. (See Cody, M. T., Gray, and Forbes, assignors.)
General Motors Corporation. (See Sturt, Alfred T., assignor.)
Gerrard, Alec J., and P. Wright, Chicago, Ill. Tie wire with deformed ends. 1,472,299; Oct. 30.
Gessler, Frederick A., Martins Ferry, Ohio, assignor to Electric Milker Corporation, Chicago, Ill. Milking machine. 1,472,467; Oct. 30.
Gibson, Glen V., et al. (See Wenthing, Lester M., assignor.)
Gingrich, Elmer R., Lancaster, Pa. Shoe-tongue clip. 1,472,519; Oct. 30.
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy vehicle. 1,472,164; Oct. 30.
Gilbreath, Leo A. (See Scurlock, O. W., and Gilbreath.)
Gillette, Robert T., Schenectady, and J. L. Butterfield, Aiplaus, N. Y., assignors to General Electric Company. Metal joint. 1,472,518; Oct. 30.
Gilstrap, Daniel L., Batson, Tex. Fishing tool for junk in wells. 1,472,213; Oct. 30.
Glasser, Maurice M., Charleston, S. C. Fans. Re15,705; Oct. 30.
Glenn, George A., Lawndale, Pa. Molding flask. 1,472,646; Oct. 30.
Goldrick, Albert R., Cleveland, assignor to C. W. Schaefer, Lakewood, Ohio. Metal casing for leaf-spring covers. 1,472,468; Oct. 30.
Goldsmith, Byron B., New York, N. Y. Ink cartridge. 1,472,063; Oct. 30.
Goldsmith, Byron B., New York, N. Y. Ink cartridge. 1,472,064; Oct. 30.
Goldsmith, Byron B., New York, N. Y. Ink cartridge. 1,472,065; Oct. 30.
Goldsmith, Byron B., New York, N. Y. Ink container. 1,472,066; Oct. 30.
Goldsmith, Byron B., New York, N. Y. Permanent ink cartridge. 1,472,067; Oct. 30.
Gold Sealed Denture Process Co. Inc. (See Daly, John A., assignor.)
Goodier, James H., New York, N. Y. Envelope closure. 1,472,647; Oct. 30.
Goodman Manufacturing Company. (See Pray, Thomas E., assignor.)
Goodrum, Charles L. (See Clausen, H. P., and Goodrum.)
Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,472,469; Oct. 30.
Goosmann, Justus C., Peoria, Ill. Water-control valve. 1,472,412; Oct. 30.
Goughnour, George, assignor to The Timkin Roller Bearing Company, Canton, Ohio. Electrode holder. 1,472,215; Oct. 30.
Goulet, Omer C., assignor of one-half to A. E. Perron, Fall River, Mass. Stopping device for folding machines. 1,472,751; Oct. 30.
Gonce, John W., Anderson, Tenn. Dentiphone. 1,472,214; Oct. 30.
Gorham Manufacturing Company. (See Staf, Axel H., assignor.)
Gorman, Frank C. (See Gorman, James F. and F. C.)
Gorman, James F. and F. C., New York, N. Y. Burglar alarm. 1,472,750; Oct. 30.
Gould & Eberhardt. (See Zimmermann, William F., assignor.)
Grabarek, Michael, assignor of one-half to S. Novak, Marquette, Mich. Lock. 1,472,648; Oct. 30.
Grace, Edwin B., and W. J. Laffey, Memphis, Tenn. Freight-handling truck. 1,472,649; Oct. 30.
Graham, Leslie B., East Chicago, Ind., assignor to National Boiler Washing Co., Chicago, Ill. Oil-service standpipe. 1,472,413; Oct. 30.
Graul, William F., Northampton, Mass., assignor to F. B. Look, E. MacLeod, W. Cordes, and G. H. Burr, trustees, doing business as Florence Manufacturing Company. Making brushes. 1,472,165; Oct. 30.
Graves, Charles N., assignor to The Graves Tool Co., Inc., Shreveport, La. Spring compressor. 1,472,752; Oct. 30.
Graves Tool Co., The. (See Graves, Charles N., assignor.)
Gray, John. (See Cody, M. T., Gray, and Forbes.)
Green, Collingwood, Bolton, England. Wheel for road vehicles. 1,472,593; Oct. 30.
Green, Collingwood, Bolton, England. Wheel for road vehicles. 1,472,594; Oct. 30.

Greene, Alonzo M., New London, Conn. Wheeled vehicle known as scooter. 1,472,216; Oct. 30.
Griffiths, Francis H., Springfield, and H. F. Benson, Holyoke, Mass. Liquid-pumping apparatus. 1,472,560; Oct. 30.
Griffiths, Richard T., assignor to The Miller Rubber Company, Akron, Ohio. Acid-proof container. 1,472,166; Oct. 30.
Grimm, Gerhardt E., New York, N. Y. Ornament for Christmas trees or the like. 1,472,520; Oct. 30.
Grimme, Johannes, Godesberg-on-the-Rhine, Germany, assignor to Hermann Heinrich Böker & Co., Bonn, Germany. Wire stretcher. 1,472,167; Oct. 30.
Grimmer, Walter G., Detroit, Mich. Carton opener. 1,472,269; Oct. 30.
Gufler, Anton, New York, N. Y. Animal trap. 1,472,217; Oct. 30.
Gunderson, George H., Potter, assignor of one-half to P. Maginnis, Kimball, Nebr. Road drag. 1,472,168; Oct. 30.
Gurley, John W., Indianapolis, Ind. Pump. 1,472,414; Oct. 30.
Haberkamp, William C., Chicago, Ill. Hair waver. 1,472,561; Oct. 30.
Häfele, Gotthard, Buffalo, N. Y. Combined lamp pedestal and stand. Des. 63,163; Oct. 30.
Haggerty, Frank, assignor of one-fourth to P. Izenstark, Chicago, Ill. Athletic shoe. 1,472,415; Oct. 30.
Hajek, Otto, assignor to the Firm of A. Friedmann, Vienna, Austria. Oil-distributing device. 1,472,753; Oct. 30.
Hammond, John H., jr., Gloucester, Mass. Transmission and receiving system. 1,472,218; Oct. 30.
Hand, Jesse H., Detroit, Mich. Change-speed gearing. 1,472,121; Oct. 30.
Hand, Jesse H., Detroit, Mich. Change-speed gearing. 1,472,122; Oct. 30.
Hansard, Robert L. (See Castle, W. E., and Hansard.)
Harding, Ilhram R. (See Du Pont, A. I., and Harding.)
Harley-Davidson Motor Co. (See Harley, William S., assignor.)
Harley, William S., assignor to Harley-Davidson Motor Co., Milwaukee, Wis. Engine. 1,472,068; Oct. 30.
Harper, Charles E., jr. (See Taylor, A. J., jr., and Harper.)
Harrison, Marion M., assignor to The Miller Rubber Company, Akron, Ohio. Building element. 1,472,521; Oct. 30.
Harshberger, Norman P., assignor to Toe-Lok Shingle Company, Chicago, Ill. Shingle. 1,472,270; Oct. 30.
Hart, Harry S., Chicago, Ill., assignor to National Dump Car Company. Dump-car-door latch. 1,472,416; Oct. 30.
Hartley, Ralph V. L., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and means for producing alternating currents. 1,472,470; Oct. 30.
Harvey, Edward J., Racine, Wis. Leaf spring. 1,472,754; Oct. 30.
Harvey, Leo M., Los Angeles, Calif. Fruit clipper. 1,472,392; Oct. 30.
Hauck, Edmund C. (See Cole, L. J., and Hauck.)
Haverstick, Earl J., Oakmont, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrolyte for electrolytic condensers. 1,472,169; Oct. 30.
Hawes, Arthur L., Freeport, assignor to Empire Notion Company, New York, N. Y. Folding container. 1,472,755; Oct. 30.
Hawkins, Frederick P. (See Hawkins, W. G., and Bloodgood, assignors.)
Hawkins, William G., and V. C. Bloodgood, Harvey, assignors of one-third to F. P. Hawkins, Chicago, Ill. Armored pneumatic disk wheel. 1,472,271; Oct. 30.
Haynsworth, Julius D., Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Electrically-heated solder pot. 1,472,170; Oct. 30.
Haynsworth, Julius D., Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Electric heater. 1,472,171; Oct. 30.
H'Doubler, Charles W., Madison, Wis. Electrically-driven sewing machine. 1,472,588; Oct. 30.
Headley, William T., Philadelphia, Pa. Paving material. 1,472,393; Oct. 30.
Heck, George D., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Dental chair. 1,472,272; Oct. 30.
Hedstrom, Gustav W., assignor of one-half to P. W. Fafford, Chicago, Ill. Drying machine. 1,472,417; Oct. 30.
Heichel, Joseph G. (See Louden, Edgar W., assignor.)
Heinitsh, William W., I. C. Shalkop, and A. B. Lauterbach, Philadelphia, Pa., assignor to The De Luxe Brush Company, Wilmington, Del. Device for dispensing liquid or plastic materials. 1,472,123; Oct. 30.
Helgeson, Stiner T., Minneapolis, Minn. Adjustable metal frame. 1,472,069; Oct. 30.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Single-phase commutator motor. 1,472,172; Oct. 30.
Henderson, Albert E., Toronto, Ontario, Canada. Manufacturing inner tubes for vehicle tires. 1,472,756; Oct. 30.
Hendrickson, Ira E. (See Brown, P., and Hendrickson.)
Henry, Raymond, Rock Island, and W. M. Mansfield, assignors, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Making forged tractor gears. 1,472,522; Oct. 30.
Hibbard, Lloyd J. (See Fortescue, C. L., and Hibbard.)
Hicks, Roy J. E., Bay City, Tex. Combination fender and lamp brace. 1,472,523; Oct. 30.
Hildebrandt, Paul, Hamburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Treatment of albuminous animal waste for the preparation of human food. 1,472,331; Oct. 30.
Hildebrandt, Paul, Hamburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Production of a preserved meat-extractlike preparation from fish flesh. 1,472,332; Oct. 30.
Hillbom, Henrik, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon or similar article. Des. 63,174; Oct. 30.
Hillhouse, John T. E., assignor to Western Electric Company, Incorporated, New York, N. Y. Calling device. 1,472,595; Oct. 30.
Hirsch, Daniel, New York, N. Y. Identification means for umbrellas, parasols, etc. Re15,712; Oct. 30.
Hobert, Clayton, Philadelphia, Pa. Bedspring support. 1,472,361; Oct. 30.
Hoffman, Otto N., Syracuse, N. Y. Article-slicing device. 1,472,219; Oct. 30.
Hoffman, Reuben F., Hamilton, Ohio. Radiator cover. 1,472,650; Oct. 30.
Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Stove leg. 1,472,418; Oct. 30.
Holland, Ignatious G., and G. A. Broughton, Norfolk, Va. Automobile signal. 1,472,718; Oct. 30.
Holling, Lewis C., St. Louis, Mo. Automobile cover or garage. 1,472,651; Oct. 30.
Holmberg, Theodore A., Stamford, Conn. Heating system. 1,472,757; Oct. 30.
Holophane Glass Company. (See Dorey, William A., assignor.)
Homan, Fred D., and M. A. Rutenber, Kansas City, Mo. Kinetic power jack. 1,472,362; Oct. 30.
Holt, Victor L., Portland, Oreg. Saw attachment for tractors. 1,472,394; Oct. 30.
Holtorp, Wilhelm, Hamburg, Germany. Lubricating device for axle journals. 1,472,363; Oct. 30.
Holy, George H. F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Driving connection for locomotives. 1,472,173; Oct. 30.
Hope, John W., Pittsburgh, Pa. Clamp thumb tack. 1,472,471; Oct. 30.
Hopedale Manufacturing Company. (See Snow, Isaac, assignor.)
Horn & Brannen Manufacturing Co., The. (See Gehrke, Frederick W., assignor.)
Horophane Glass Co. (See Toensfeldt, Ralf T., assignor.)
Horvath, Geza, Detroit, Mich. Machine for making radiator tubes. 1,472,719; Oct. 30.
Hoskin, William, assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Steel puller. 1,472,524; Oct. 30.
Houghton, E. F., & Company. (See Butler, C. H., and Jones, assignors.)
House, Thomas M., assignor to Richmond Pressed Metal Works, Inc., Richmond, Va. Clothes-hanger support for wardrobe trunks. 1,472,525; Oct. 30.
Howard, Colonel L. (See Howard, Nelson F., and C. L.)
Howard, Nelson F., and C. L. Howard, Fairfield Township, Ind. Mold for concrete posts. 1,472,596; Oct. 30.
Howe, Frank M., New York, and C. Naegell, Long Island City, N. Y. Air-heating attachment for fans. 1,472,124; Oct. 30.
Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Candle cup for lighting fixtures. Des. 63,175; Oct. 30.
Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Socket cover for lighting fixtures. Des. 63,176; Oct. 30.
Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Ball lamp cover for lighting fixtures. Des. 63,177; Oct. 30.
Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Canopy for lighting fixtures. Des. 63,178; Oct. 30.
Hubbard and Company. (See Peirce, Charles L., jr., assignor.)
Hughes, Charles C., and R. O. Betterly, Philadelphia, Pa. Engine valve and casing. 1,472,652; Oct. 30.
Hughes, Charles H., Endicott, N. Y. Traffic-signal device for automobiles. 1,472,273; Oct. 30.
Hughes, David D., Oakland, Calif. Concrete-building form. 1,472,174; Oct. 30.
Hulett, Snoe O., Corry, Pa. Differential. 1,472,758; Oct. 30.
Hunt, John D., Toronto, Ontario, Canada. Counting attachment for printing presses. 1,472,653; Oct. 30.
Huntington, Arthur F., Portsmouth, Va. Bushing tool. 1,472,759; Oct. 30.
Hyle, Jacob A., Philadelphia, Pa., assignor to Tri-City Steel Company, Chicago, Ill. Metallic railway crosstie. 1,472,526; Oct. 30.
Iacobitti, Giuseppe, Crockett, Calif. Lump-sugar-packing machine. 1,472,395; Oct. 30.
Iklé, Charles F., New York, N. Y. Embroidered fabric. Des. 63,179; Oct. 30.
Iklé, Charles F., New York, N. Y. Embroidered fabric. Des. 63,180; Oct. 30.
Iklé, Charles F., New York, N. Y. Embroidered fabric. Des. 63,181; Oct. 30.

Iklé, Charles F., New York, N. Y. Embroidered fabric. Des. 63,182; Oct. 30.
Ingersoll-Rand Company. (See Bayles, L. C., and Slater, assignor.)
Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)
Ingle, Arthur H. (See Ward, Wallace E., assignor.)
Ingram, John C., Chicago, Ill., assignor to The American Cotton Oil Company, New York, N. Y. Making soap powder. 1,472,472; Oct. 30.
Ingram, John C., Chicago, Ill., assignor to The American Cotton Oil Company, New York, N. Y. Finely-divided soap and manufacturing the same. 1,472,473; Oct. 30.
International Motor Company. (See Frins, M. C., and Drumm, assignors.)
International Motor Company. (See Masury, A. F., and Leipert, assignors.)
International Precipitation Company. (See Schmidt, Walter A., assignor.)
Izenstark, Pinkie. (See Haggerty, Frank, assignor.)
Jackson, George, New Haven, Conn. Building construction. 1,472,654; Oct. 30.
Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam boiler. 1,472,474; Oct. 30.
Jacobsen, Richard S., assignor to Roberts and Schaefer Company, Chicago, Ill. Shallow-pit coaling station. 1,472,597; Oct. 30.
Jacques, George W., Stratford, Conn., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Fastener-setting device. 1,472,247; Oct. 30.
Jannelle, Joseph R., Three Rivers, Quebec, Canada. Potato digger. 1,472,300; Oct. 30.
Jarvis, Charles H., assignor to United Steel and Wire Co., Battle Creek, Mich. Display basket or receptacles. 1,472,598; Oct. 30.
Jarvis, Henry C., New York, N. Y. Advertising sign. Des. 63,183; Oct. 30.
Jeffries, Zay. (See Archer, R. S., and Jeffries.)
John-Baker Sons & Perkins Limited, Messrs. (See Prescott, William E., assignor.)
Johnson, Carl O., and A. F. Bergholz, Jefferson, Wis. Milk-can cover. 1,472,220; Oct. 30.
Johnson, Eskel L., Clarissa, Minn. Alignment device for cow stanchions. 1,472,175; Oct. 30.
Johnson, Tomlinson F., jr., Atlanta, Ga. Jack for dead-end insulators. 1,472,176; Oct. 30.
Johnston, Wayburn E., Minneapolis, Minn. Furnace smoke model or demonstrating device. 1,472,475; Oct. 30.
Jones and Laughlin Steel Company. (See Naugle, H. M., and Townsend, assignors.)
Jones, Esther P., administratrix. (See Jones, Thomas J.)
Jones, George W., Gum Neck, N. C. Hoof holder. 1,472,527; Oct. 30.
Jones, Harry H. (See Butler, C. H., and Jones.)
Jones, R. A., and Company. (See Jones, Ruel A., assignor)
Jones, Ruel A., assignor to R. A. Jones and Company, Incorporated, Covington, Ky. Carton folding and filling machine. 1,472,364; Oct. 30.
Jones, Thomas J., deceased, Catlin, Ill.; E. P. Jones, administratrix. Scissors sharpener. 1,472,760; Oct. 30.
Jones, Thomas X., Minneapolis, Minn. Attachment for window-shade rollers. 1,472,221; Oct. 30.
Jordan, Christopher C. (See Jordan, William H., assignor.)
Jordan, Donald G., et al. (See Wentling, Lester M., assignor.)
Jordan, William H., Brooklyn, assignor of one-half to C. C. Jordan, New York, N. Y. Commutator-dressing apparatus. 1,472,365; Oct. 30.
Joyce, A. Willard, Newark, N. J., assignor to The Chemical Foundation, Inc., New York, N. Y. Disazo coloring matter. 1,472,333; Oct. 30.
Joyce, Asa W., Newark, N. J., assignor to The Chemical Foundation, Inc., New York, N. Y. Disazo dyes. 1,472,334; Oct. 30.
Justrite Measuring Machine Company, The. (See Barrows, Walter A., assignor.)
Kasley, Alexander T., Essington, Pa., assignor to Westinghouse Electric and Manufacturing Company. Turbine blading. 1,472,070; Oct. 30.
Keall, Frank B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Edge-setting machine. 1,472,071; Oct. 30.
Keeler, Earl A., Norristown, assignor to Leeds & Northrup Company, Philadelphia, Pa. Measuring apparatus. 1,472,125; Oct. 30.
Kellogg Switchboard and Supply Company. (See Sparks, Charles, assignor.)
Kelsey, Charles F., et al. (See Fry, Patrick H., assignor.)
Kelsey, Frank N., assignor, by mesne assignments, of one-half to P. C. Swole, New Haven, Conn. Signal valve. 1,472,366; Oct. 30.
Kemp, William W., assignor of one-half to W. H. Van Horn, Baltimore, Md. Method of and apparatus for case hardening. 1,472,367; Oct. 30.
Kendzierski, Joseph, Minneapolis, Minn. Waste trap. 1,472,476; Oct. 30.
Kenney, Frank A., Denver, Colo. Artificial arm. 1,472,177; Oct. 30.
Kershaw, Joseph, Joplin, Mo. Wheel attachment. 1,472,655; Oct. 30.
Ketterer, Charles A. (See Wenke, C. W., and Ketterer.)
Kewish, John T., assignor of one-fourth to J. C. Garand, New York, N. Y. Machine gun. 1,472,126; Oct. 30.
Kill, Vincent P., Lawton, and O. J. Gaster, Anadarko, Okla. Working valve. 1,472,528; Oct. 30.
King, Bert W., Detroit, Mich. Scale. 1,472,761; Oct. 30.
King, Robert W., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,472,477; Oct. 30.
Kirkpatrick, Monroe C., Files Valley, assignor of one-fourth to J. H. Williamson and one-fourth to V. Wiseman, Hill County, Tex. Tramper for lint cotton. 1,472,274; Oct. 30.
Kirsch, Charles W., Sturgis, Mich. Curtain holdback. 1,472,599; Oct. 30.
Klylln, Matthew J., Kingsville, Tex. Course director for flies. 1,472,127; Oct. 30.
Klein, Morris, Oakland, Calif. Stove. 1,472,178; Oct. 30.
Kierx, Alois, assignor to Peninsular Forging Die & Tool Co., Detroit, Mich. Weaving shuttle. 1,472,720; Oct. 30.
Kluge, Abel, and E. Kluge, assignors, by mesne assignments, to Brandtjen & Kluge Incorporated, St. Paul, Minn. Pneumatic feeding device for printing presses. 1,472,656; Oct. 30.
Kluge, Eneval. (See Kluge, Abel and E.)
Knight, Earl S., Waterloo, Iowa. Grading and excavating machine. 1,472,562; Oct. 30.
Knott, Warren E., Grand Rapids, Mich. Automatic button-blank-cutting machine. 1,472,275; Oct. 30.
Knupp, Ralph W. (See Foley, W. P., and Knupp.)
Koepsell, August J., Mayville, Wis. Loose-leaf binder. 1,472,301; Oct. 30.
Kohler, Jacob F., New York, N. Y., assignor to Metal Lamp Corporation. Combined lamp shade and stand. Des. 63,184; Oct. 30.
Kohler, Jacob F., New York, N. Y., assignor to Metal Lamp Corporation. Combined lamp shade and stand. Des. 63,185; Oct. 30.
Kohler, Jacob F., New York, N. Y., assignor to Metal Lamp Corporation. Combined lamp shade and stand. Des. 63,186; Oct. 30.
Krasner, Nathan, New York, N. Y. Phonograph cabinet. Des. 63,187; Oct. 30.
Kreh, Henry M., Haddon Heights, N. J. Humidor. 1,472,478; Oct. 30.
Kreutzer, George A., and K. L. Long, Lincoln, Nebr.; N. C. Long executrix of said K. L. Long. Combined stove and humidifier. 1,472,396; Oct. 30.
Kriznar, Frank L., Denver, Colo. Combination switch and burglar alarm. 1,472,072; Oct. 30.
Kunitz, Hannibal H., assignor to Advance Furnace & Engineering Company, Springfield, Mass. Furnace. 1,472,529; Oct. 30.
Kusel, Isidor J., Chicago, Ill. Coin bank. Des. 63,188; Oct. 30.
La Course, Joseph M., Chicago, Ill. Piston ring. 1,472,073; Oct. 30.
Laffey, William J. (See Grace, E. B., and Laffey.)
Laidman, Charles, Cleveland, Ohio. Table mat. Re15,708; Oct. 30.
Lally, John, Boston, Mass. Building column. 1,472,600; Oct. 30.
Lally, John, Boston, Mass. Wall hanger. 1,472,601; Oct. 30.
Lally, John, Boston, Mass. Cap for building columns. 1,472,602; Oct. 30.
Lally, John, Boston, Mass. Cap for building columns. 1,472,603; Oct. 30.
Landers, Frary & Clark. (See Warner, Alonzo A., assignor.)
Landwirtschaftliche Maschinenfabrik. (See Uriga, Leopold, assignor.)
Langer, Friederich J. (See Rae, Frank B., assignor.)
Langston, Samuel M., Company. (See Fine, Bernard M., assignor.)
Larson, Charles V., Chicago, Ill. Caliper reading glass. 1,472,074; Oct. 30.
Lauterbach, Alexander B. (See Heinitsh, W. W., Shalkop, and Lauterbach.)
La Viers, James A., Portland, Oreg. Brake. 1,472,302; Oct. 30.
La White, Henry. (See La White, Oliver and H.)
La White, Oliver and H., Glens Falls, N. Y. Fiber-dressing apparatus. 1,472,419; Oct. 30.
Leeds & Northrup Company. (See Keeler, Earl A., assignor.)
Leedy Manufacturing Company. (See Leedy, Ulysses G., assignor.)
Leedy, Ulysses G., assignor to Leedy Manufacturing Company, Indianapolis, Ind. Snare-drum stick. 1,472,397; Oct. 30.
Leiker, Isadore, Hays, Kans. Slot closure for Ford automobiles. 1,472,721; Oct. 30.
Leiker, Isadore, Hays, Kans. Slot closure for Ford automobiles. 1,472,722; Oct. 30.
Leipert, August H. (See Masury, A. F., and Leipert.)
Lenaghan, Thomas, Croydon, England. Automatic telephone system. 1,472,604; Oct. 30.
Lerche, Julius, Berlin-Zehlendorf, assignor to Uhrenfabrik vorm. L. Furtwängler, Söhne A.-G., Furtwangen i/Baden, Germany. Franking machine. 1,472,723; Oct. 30.

Leslie Company, The. (See Metzger, Jules P., assignor.)
Le Vie, Wilfred J., Los Angeles, Calif. Advertising device. 1,472,222; Oct. 30.
Levis Tool Factory, Ltd. (See Villeneuve, Archille, assignor.)
Lewis, Joseph W., assignor to The Atlantic Refining Company, Philadelphia, Pa. Petroleum-treating apparatus. 1,472,075; Oct. 30.
Liberty Electric Company. (See Moore, Young, assignor.)
Lillard, William W., Jersey City, N. J. Game. 1,472,657; Oct. 30.
Lindenmayer, Arthur, Lansdowne, Pa. Receptacle for holding powdered material or the like. 1,472,658; Oct. 30.
Lindgren, Waldemar L., assignor of one-half to J. E. Ericsson, Chicago, Ill. Clutch. 1,472,479; Oct. 30.
Lindgren, Waldemar L., assignor of one-half to J. E. Ericsson, Chicago, Ill. Clutch. 1,472,480; Oct. 30.
Link, Walter, assignor to American Airship Association, Ajo, Ariz. Airship. 1,472,076; Oct. 30.
Little, William F., St. Louis, Mo. Identification and registration plate for automobiles. Des. 63,189; Oct. 30.
Lockwood, Arthur L., Jackson, Mich. Safety clutch for propellers. 1,472,077; Oct. 30.
Lockwood, Henry S., assignor to The Lockwood Manufacturing Company, South Norwalk, Conn. Latch spindle. 1,472,481; Oct. 30.
Lockwood Manufacturing Company, The. (See Lockwood, Henry S., assignor.)
Lofland, Peter C., Milton, Del. Oyster opener. 1,472,179; Oct. 30.
Loken, Truls, Kenosha, Wis., assignor, by mesne assignments, to F. C. Austin Machinery Company. Trenching machine. 1,472,563; Oct. 30.
Long, Kenneth L. (See Kreutzer, G. A., and Long.)
Long, Natalie C., executrix. (See Kreutzer, G. A., and Long.)
Longman, Cecil H., assignor to The Security Metal Products Company, Cincinnati, Ohio. Sealing top for fruit jars. 1,472,398; Oct. 30.
Loop, John D., Long Beach, Calif. Whale-harpooning apparatus. 1,472,223; Oct. 30.
Lorgnson, Harry G., Newman, Calif. Timer. 1,472,180; Oct. 30.
Louden, Edgar W., assignor of one-half to J. G. Heichel, Lebanon, Pa. Pocket scribers and compasses. 1,472,181; Oct. 30.
Lovejoy, Ralph M., Meredith, N. H. Spring construction for vehicles. 1,472,482; Oct. 30.
Lucius, Christian V., Massillon, Ohio. Tank vehicle. 1,472,078; Oct. 30.
Luedecke, Julius A., Chicago, Ill. Kerosene-gas burner. 1,472,605; Oct. 30.
Luzy, Antoine, Paris, France. Magneto flash light. 1,472,335; Oct. 30.
M. & M. Adograph Company, The. (See Moffett, Parley O., assignor.)
McCarthy, Joseph, Spokane, Wash. Automobile signal. 1,472,248; Oct. 30.
McCloskey, Thomas J., assignor to Universal Transmission Company, Seattle, Wash. Transmission mechanism. 1,472,724; Oct. 30.
McClure, Silas, Minneapolis, Minn. Thermostatic mechanism. 1,472,725; Oct. 30.
McComas, Jesse, Los Angeles, Calif. Telephone attachment. 1,472,530; Oct. 30.
McCown, Thomas D., and J. A. Blanchard, Poplar Bluff, Mo. Automatic dirigible headlight. 1,472,564; Oct. 30.
McCracken, Adam, London, England. Reamer. 1,472,182; Oct. 30.
McElroy, James W., Philadelphia, Pa. Doorstop. Des. 63,190; Oct. 30.
McFarland, Samuel, Coatesville, Pa. Rail joint. 1,472,606; Oct. 30.
McFarland, William H. (See Quinby, Harrison, assignor.)
McGibbon, Ellsworth, Spokane, Wash. Pocketbook. 1,472,303; Oct. 30.
McGlashan, James, assignor to Martin-Parry Corporation, York, Pa. Vehicle body construction. 1,472,607; Oct. 30.
McGlashan, James. (See Manly, C. M., and McGlashan.)
McLamb, Alexander M., Lumberton, N. C. Draft coupling. 1,472,368; Oct. 30.
McLaughlin, James M, Portland Oreg. Friction device for log handlers. 1,472,726; Oct. 30.
McNaier, Joseph T., New York, N. Y. Centrifugal machine gun and feeding same. 1,472,080; Oct. 30.
McNames, William, Aberdeen, S. Dak. Automobile check. 1,472,727; Oct. 30.
McNeil, James E., Memphis, Tenn. Plow. 1,472,728; Oct. 30.
McTarnahan, William C., et al. (See Gay, George L., assignor.)
Macbeth, Albert C., assignor of one-half to C. T. Orange, Seattle, Wash. Motion-picture machine. 1,472,608; Oct. 30.
Mac Farland, Allis M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Soldering iron. 1,472,183; Oct. 30.
Mack, Luther L., South Pasadena, Calif. Hydraulic brake mechanism. 1,472,369; Oct. 30.
MacNeill, John B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switching device. 1,472,184; Oct. 30.
Macrae, John M. (See Anderson, O. A., and Macrae.)
Maginnis, Patrick. (See Gunderson, George H., assignor.)
Mahlstedt, George H., et al. (See Fry, Patrick H., assignor.)
Malcom, Robert. (See Peterson, Gust A., assignor.)
Mallvert, Jules E., assignor to Societe Anonyme des Apparells J. E. Mallvert, Paris, France. Reheating device for soldering irons. 1,472,729; Oct. 30.
Manly, Charles M., Richmond Hill., N. Y., and J. McGlashan, assignors to Martin-Parry Corporation, York, Pa. Vehicle body construction. 1,472,128; Oct. 30.
Manning, Howard H., Meadville, Pa. Cutter-head attachment. 1,472,565; Oct. 30.
Mansfield, Warren M. (See Henry, R., and Mansfield.)
Markland, Horace L., Waco, Tex. Arrangement and equipment for shoe-shining shops. 1,472,079; Oct. 30.
Marsh, C. A., & Company. (See Rounseville, Luca H., assignor.)
Martin, Joseph, Munich, Germany. Clamshell. 1,472,336; Oct. 30.
Martin-Parry Corporation. (See McGlashan, James, assignor.)
Martin-Parry Corporation. (See Manly, C. M., and McGlashan, assignors.)
Martin, Richard D., Fort Smith, Ark. Coke-drawing machine. 1,472,730; Oct. 30.
Martin, Stanton C., Erie, Pa. Pulverizing machine. 1,472,609; Oct. 30.
Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Two-wire party-line lockout telephone system. Re15,706; Oct. 30.
Martinetto, Vittorio, Turin, Italy. Automatic maximum and minimum current circuit breaker. 1,472,370; Oct. 30.
Marvin, Gwynne L., Morgan Hill., Calif. Bed shield. 1,472,731; Oct. 30.
Mast, John Z., Denbigh, Va. Mail crane. 1,472,732; Oct. 30.
Masury, Alfred F., New York, and A. H. Leipert, College Point, assignors to International Motor Company, New York, N. Y. Cushion connection for vehicle construction. 1,472,371; Oct. 30.
Masury, Alfred F., and A. H. Leipert, assignors to International Motor Company, New York, N. Y. Spring mounting for cushion connections. 1,472,372; Oct. 30.
Mathes, Robert C., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. 1,472,483; Oct. 30.
Mathes, Robert C., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission circuit. 1,472,610; Oct. 30.
Matthews, Leo F. (See Fleming, H. D., Matthews, and Fleming.)
Maxwell, David G., Toronto, Ontario, Canada. Advertising device. 1,472,733; Oct. 30.
Mayer, Frank A., Washington, D. C. Locomotive ash pan. 1,472,659; Oct. 30.
Mayer, Henry, Arbon, G. Schlatter, Steinach, and P. Boeckly, assignors to Societe Anonyme Adolphe Saurer, Arbon, Switzerland. Dumping wagon. 1,472,484; Oct. 30.
Mayer, Michael. (See Radó, A., Mayer, and von Egerházy.)
Megenity, Ralph A., Kansas City, Mo. Concrete construction. 1,472,373; Oct. 30.
Meisinger, Edward L., Clarion, Pa. Vacuum carburetor. 1,472,660; Oct. 30.
Meixell, Clyde C., Bethlehem, Pa. Shelf. 1,472,129; Oct. 30.
Mellor, Leonard. (See Mellor, William H. and L.)
Mellor, William H. and L., Manchester, England. Machine for cutting cheese and other substances. 1,472,224; Oct. 30.
Mengel, Charles C., assignor to The Mengel Company, Louisville, Ky. Box or container and sealing same. 1,472,661; Oct. 30.
Mengel Company, The. (See Mengel, Charles C., assignor.)
Mercer, Iza N., Wellsburg, W. Va. Grapple. 1,472,081; Oct. 30.
Metal Lamp Corporation. See Kohler, Jacob F., assignor.)
Metcalfe, James C. (See Metcalfe, Richard D. and J. C.)
Metcalfe, Richard D. and J. C., Romiley, England. Injector. 1,472,337; Oct. 30.
Mettler, Clement J., Fort Wayne, Ind. Child's vehicle. 1,472,611; Oct. 30.
Metz, Herman A. (See Funk, C., and Freedman, assignors.)
Metzger, Jules P., Carlstadt, N. J., assignor to The Leslie Company, Lyndhurst, N. J. Combined pressure regulating and governing apparatus. 1,472,662; Oct. 30.
Meyer, Albert C., San Diego, Calif. Interest calculator. 1,472,276; Oct. 30.
Michalski, Joseph J., Buffalo, N. Y. Theft detector for automobiles. Re15,709; Oct. 30.
Michel, William B., Plymouth, Ind. Automobile panel construction. 1,472,304; Oct. 30.
Michigan Machine Co. (See Anderson, O. A., and Macrae, assignors.)
Midland Company, The. (See Davis, Irvin W., assignor.)

Miehle Printing Press and Manufacturing Company. (See Blaine, Joseph R., assignor.)
Miehle Printing Press and Manufacturing Company. (See Dudley, Edward F., assignor.)
Miehle Printing Press and Manufacturing Company. (See Stevens, Burt D., assignor.)
Miller, Abraham, New York, N. Y. Lighting-fixture arm. Des. 63,191; Oct. 30.
Miller, Adam J., Platteville, Wis. Barrel stand. 1,472,734; Oct. 30.
Miller, Albion J. (See Showalterbaugh, Joseph, assignor.)
Miller-Chapman Company. (See Chapman, Earle E., assignor.)
Miller, Joseph J., Highland Park, Mich. Combined tire carrier and rim tool. 1,472,130; Oct. 30.
Miller Rubber Co., The. (See Brundage, James W., assignor.)
Miller Rubber Company, The. (See Griffiths, Richard T., assignor.)
Miller Rubber Company, The. (See Harrison, Marion M., assignor.)
Miller, Walter J. B., assignor to Whaley and Miller Company, Norfolk, Va. Door wicket. 1,472,663; Oct. 30.
Modine, Arthur B., Racine, Wis. Auxiliary liquid-storage receptacle for a circulating system. 1,472,305; Oct. 30.
Modine, Arthur B., Racine, Wis. Radiator. 1,472,306; Oct. 30.
Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Presser roller for puller machines. 1,472,277; Oct. 30.
Moffett, Parley O., assignor to The M. & M. Adograph Company, San Francisco, Calif. Printing device. 1,472,307; Oct. 30.
Moline Plow Company. (See Boda, Joseph, assignor.)
Moline Plow Company. (See Case, Henry J., assignor.)
Moline Plow Company. (See Dickinson, Harry S., assignor.)
Moline Plow Company. (See Henry, R., and Mansfield, assignors.)
Mollenhauer, Elmer A., Spokane, Wash. Vulcanizing apparatus. 1,472,185; Oct. 30.
Mook, Roy H., et al. (See Fry, Patrick H., assignor.)
Moon, Charles J. C., London, England. Golf-bag support. 1,472,664; Oct. 30.
Moore, Young, Indianapolis, Ind., assignor, by mesne assignments, to Liberty Electric Company. Electric iron. 1,472,762; Oct. 30.
Morgan, Porter S., Norwalk, Conn. Shock absorber. 1,472,420; Oct. 30.
Morgan & Wright. (See Galpin, G., and Baer, assignors.)
Morhoff, William F., Madison, Wis. Gutter hanger. 1,472,612; Oct. 30.
Morrill, Joseph B., St. Louis, Mo., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,472,485; Oct. 30.
Morris, Carroll E., Grimes, Calif. Direction indicator for motor vehicles. 1,472,186; Oct. 30.
Morris, George T., assignor of one-half to E. J. Adams, Missoula, Mont. Adjustable doorstop. 1,472,531; Oct. 30.
Morse, Albert W., Long Island City, N. Y. Nebulizer of liquids. 1,472,486; Oct. 30.
Mowen, Frederick D., Plainfield, N. J. Fuel vaporizing and mixing mechanism. 1,472,665; Oct. 30.
Moxham, Arthur J., New York, N. Y. Obtaining purified iron from its ores. 1,472,131; Oct. 30.
Muelberger, Walter, Maplewood, N. J., assignor to Nathan & Cohen Co. Inc., New York, N. Y. Textile fabric. Des. 63,192; Oct. 30.
Mueller, Adolph, trustee. (See Mueller, P., and Schuermann, assignors.)
Mueller, John G., Dayton, Ohio. Railway-rail brace. 1,472,225; Oct. 30.
Mueller, Philip, and A. C. Schuermann, assignors to A. Mueller, trustee, Decatur, Ill. Means for flanging soft-metal pipes. 1,472,278; Oct. 30.
Munroe, Thomas L., Fall River, Mass. Testing and safety device for traps. 1,472,666; Oct. 30.
Murphy, David F. (See Ellison, William A., assignor.)
Murphy, Frank G., Mason City, Iowa. Eyeglass lens. Des. 63,193; Oct. 30.
Murphy, G. W. J., Company. (See Bourque, David, assignor.)
Murphy, P. H., Company. (See Murphy, Walter P., assignor.)
Murphy, Walter P., New York, N. Y., assignor to P. H. Murphy Company, Parnassus, Pa. Car roof. 1,472,187; Oct. 30.
Murphy, Walter P., New York, N. Y., assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,472,188; Oct. 30.
Murphy, Walter P., New York, N. Y., assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,472,189; Oct. 30.
Murphy, William B., Weehawken, N. J. Collar button. 1,472,374; Oct. 30.
Murray, Edgar T., Fort Worth, Tex. Oil-well swab. 1,472,487; Oct. 30.
Myers, F. E., & Brother Company, The. (See Myers, Guy C., assignor.)
Myers, Guy C., assignor to The F. E. Myers & Brother Company, Ashland, Ohio. Power pump. 1,472,226; Oct. 30.
Naegeli, Charles. (See Howe, F. M., and Naegeli.)
Nathan & Cohen Co. Inc. (See Muelberger, Walter, assignor.)
National Boiler Washing Co. (See Graham, Leslie B., assignor.)
National Dump Car Company. (See Hart, Harry S., assignor.)
National Gas Furnace Company. (See Walpole, Benjamin M., assignor.)
Naugle, Harry M., and A. J. Townsend, Canton, Ohio. Expanded-metal manufacture. 1,472,769; Oct. 30.
Naugle, Harry M., and A. J. Townsend, Canton, Ohio, assignors to Jones and Laughlin Steel Company, Pittsburgh, Pa. Steel-joist manufacture. 1,472,770; Oct. 30.
Naugle, Harry M., and A. J. Townsend, Canton, Ohio, assignors to Jones and Laughlin Steel Company, Pittsburgh, Pa. Steel-joist machine. 1,472,771; Oct. 30.
Naugle, Harry M., and A. J. Townsend, Canton, Ohio, assignors to Jones and Laughlin Steel Company, Pittsburgh, Pa. Steel-joist manufacture. 1,472,772; Oct. 30.
Naugle, Harry M., and A. J. Townsend, Canton, Ohio. Expanded-metal manufacture. 1,472,773; Oct. 30.
Naugle, Harry M., and A. J. Townsend, Canton, Ohio. Expanded metal. 1,472,774; Oct. 30.
Nelson, Axel M., assignor to General American Tank Car Corporation, Chicago, Ill. Tank car. 1,472,488; Oct. 30.
Nelson, Edward L. (See Bown, R., and Nelson.)
Nelson, Winfield S., Commerce, Okla. Dinner pail. 1,472,667; Oct. 30.
Nevel, Albert L., et al. (See Wentling, Lester M., assignor.)
New Jersey Zinc Company, The. (See Finkeldey, W. H., and Peirce, assignors.)
Newcomb, Robert E., Holyoke, Mass., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Hydraulic engine. 1,472,421; Oct. 30.
Newman, Harry, Brooklyn, N. Y. Window cleaner. 1,472,190; Oct. 30.
Nichols, Robert, and T. L. Titus, Omaha, Nebr. Flush valve. 1,472,191; Oct. 30.
Nicholson, Andrew L., assignor to Scotts' Shipbuilding & Engineering Company, Limited, Greenock, Scotland. Hydraulic gear for the control of engine valves. 1,472,613; Oct. 30.
Nitrum Aktiengesellschaft. (See Siebert, Werner, assignor.)
Nitsch, Charles H., Logan, and T. A. Federwitz, Nicetown, assignors to Stokes & Smith Company, Philadelphia, Pa. Machine for gumming and conveying blanks. 1,472,614; Oct. 30.
Nomburg, Emil, Newark, N. J., assignor to J. Nomburg, New York, N. Y. Fuse plug. 1,472,082; Oct. 30.
Nomburg, Joseph. (See Nomburg, Emil, assignor.)
Nordstrom, Elof, East Orange, N. J., assignor to American Dan Bottle Seal Corporation, Dover, Del. Sorting machine. 1,472,279; Oct. 30.
Nordstrom, Elof, Newark, N. J., assignor, by mesne assignments, to American Dan Bottle Seal Corporation. Crimping device for bottle-capping machines. 1,472,489; Oct. 30.
Novak, Samuel. (See Grabarek, Michal, assignor.)
Novelties Mfg.-Sales Corporation. (See Edelin, James N., assignor.)
Nowak, Richard A., Portland, Oreg. Garment fastener. 1,472,192; Oct. 30.
Nu-Way-Radiator Mfg. Co., The. (See Fallier, Maurice L., assignor.)
Oakes, Emmett L., assignor to The Superior Building Company, Akron, Ohio. Joint for portable sectional buildings. 1,472,490; Oct. 30.
Oberg, Gunnard A., assignor to Blackstone Manufacturing Company, Jamestown, N. Y. Cylinder for washing machines. 1,472,434; Oct. 30.
O'Connor, John W. (See Stuart, A. W., and O'Connor.)
Ohio Automatic Sprinkler Company. (See Abbott, Albert L., assignor.)
Ohm, Albert J. D., Astoria, N. Y., assignor to Max Schaffer Co. Lantern lamp. Des. 63,164; Oct. 30.
Oishei, John R., Buffalo, N. Y. Adjustable bracket for mirrors and other articles. 1,472,566; Oct. 30.
Okoniewski, Ludwik. (See Zukowski, Stefan, assignor.)
Oliver Chilled Plow Works. (See Dewend, William D., assignor.)
Oliver, James A., Kent, Wash. Camp stove. 1,472,668; Oct. 30.
Oneida Community, Limited. (See Allen, Grosvenor N., assignor.)
Orange, Charles T. (See Macbeth, Albert C., assignor.)
Osborn, Warren M., Chicago, Ill. Car stop. 1,472,132; Oct. 30.
Osgood, Walter P., Malden, assignor to Boston Machine Works Company, Lynn, Mass. Cementing machine. 1,472,083; Oct. 30.
Ostenberg, Pontus, San Jose, Calif. Pump mechanism. 1,472,338; Oct. 30.
Ousdahl, Adolph, Seattle, Wash. Automatic stoker. 1,472,280; Oct. 30.
Oven, Frank J., assignor to Victor Manufacturing & Gasket Co., Chicago, Ill. Gasket. 1,472,133; Oct. 30.
Overbaugh, Leslie, San Diego, Calif. Sprinkler nozzle. 1,472,669; Oct. 30.

Overbury, Frederick C., Hillsdale, N. J., assignor to The Flintkote Company, Boston, Mass. Method of and apparatus for making ornamental roofing. 1,472,227; Oct. 30.

Owings, Dudley, Seattle, Wash. Furniture attachment. 1,472,339; Oct. 30.

Page, Carl M., Chicago, Ill. Method of and apparatus for hydrogenating unsaturated compounds. 1,472,281; Oct. 30.

Palmer, John F., St. Joseph, Mich. Inner tube for pneumatic tires and making the same. 1,472,435; Oct. 30.

Parks, Dennis, St. Louis, Mo. Heel-gouging machine. 1,472,567; Oct. 30.

Pascales, Steleanos A., Detroit, Mich. Life-saving device. 1,472,084; Oct. 30.

Patrick, Harry E., A. J. Peterson, Evanston, and J. W. Bermes, assignors to Service Station Equipment Company, Chicago, Ill. Mechanic's workstand. 1,472,425; Oct. 30.

Peck, Wallace, Brooklyn, N. Y. Bed for automobiles, boats, etc. 1,472,491; Oct. 30.

Peirce, Charles L., jr., assignor of one-half to Hubbard and Company, Pittsburgh, Pa. Removal of excess coating material from coated articles. 1,472,228; Oct. 30.

Peirce, Willis M. (See Finkeldey, W. H., and Peirce.)

Penfield, Arthur H., New York, N. Y. Apparatus for concentrating ore. 1,472,670; Oct. 30.

Peninsular Forging Die & Tool Co. (See Klerx, Alois, assignor.)

Perfecto Gear Differential Co., The. (See Baker, Arthur F., assignor.)

Perks, Walter, St. Peters, near Sydney, D. S. Turner, and J. Williamson, Marrickville, near Sydney, assignors to Williamson Deburring Co. Limited, Sydney, New South Wales, Australia. Wool and hair burring machine. 1,472,308; Oct. 30.

Perron, A. E. (See Goulet, Omer C., assignor.)

Perry & Webster Incorporated. (See Webster, Paul W., assignor.)

Perry, Earl R., Worcester, Mass. Concrete-form clamp. 1,472,436; Oct. 30.

Petersen, Anker, Winthrop, Mass. Bobbin stand for braiding machines. 1,472,492; Oct. 30.

Peterson, Andrew J. (See Patrick, H. E., Peterson, and Bermes.)

Peterson, Gust A., assignor to R. Malcom, Chicago, Ill. Lens-holding device for face shields. 1,472,134; Oct. 30.

Peterson, John, Faribault, Minn. Table. Des. 63,194; Oct. 30.

Pettengill, Sylvester H., Rock Rapids, Iowa. Plastic-block making machine. 1,472,399; Oct. 30.

Pfau, Robert F., Willmar, Minn. Direction signal. 1,472,671; Oct. 30.

Pfaudler Company, The. (See Colvin, Isaac E., assignor.)

Phelan, John J., Weehawken, N. J. Garment closure. 1,472,340; Oct. 30.

Philip, Peter C., Bowlus, Minn. Cream separator. 1,472,085; Oct. 30.

Planko, Mendel, Chicago, Ill. Antifriction belt dressing. 1,472,400; Oct. 30.

Picciotti, Michele, Paterson, N. J. Clock mechanism. 1,472,532; Oct. 30.

Pickard, Greenleaf W., Newton Center, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Reed telephone receiving. 1,472,341; Oct. 30.

Pickard, Greenleaf W., Newton Center, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Electromagnetic compass. 1,472,342; Oct. 30.

Pierce, Burt N., Boston, Mass. Carburetor. 1,472,615; Oct. 30.

Pierson, Reginald K., and T. S. Duncan, assignors to Vickers Limited, Westminster, London, England. Tail skid for aircraft. 1,472,086; Oct. 30.

Pike, Vernon B., Cheltenham, Pa., assignor to American Telephone and Telegraph Company. Gas-heated soldering iron. 1,472,097; Oct. 30.

Pilcher, John A., Roanoke, Va. Car construction. 1,472,135; Oct. 30.

Pizzino, James V., Mercer, Pa. Wall-papering machine. 1,472,735; Oct. 30.

Plempel, Charles A., Pittsburgh, Pa. Confection mold. 1,472,229; Oct. 30.

Plum, William T., jr., Newark, N. J. Coating woven fabrics. 1,472,230; Oct. 30.

Poirier, Alphonse, Spokane, Wash. Indicator. 1,472,193; Oct. 30.

Poister, Ralph S., Canton, Ohio, assignor to United Alloy Steel Corporation, New York, N. Y. Ingot-mold bottom plate. 1,472,493; Oct. 30.

Pomeroy, Le Dru R., Toledo, Ohio, assignor to Bates Valve Bag Company. Wire-tying tool. 1,472,763; Oct. 30.

Porter, James V., assignor of one-half to T. J. Watson, Conneaut, Ohio. Milk-bottle container. 1,472,437; Oct. 30.

Powers Photo Engraving Company. (See Benedict, George H., assignor.)

Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Cutter chain for mining machines. 1,472,736; Oct. 30.

Prescott, William E., London, assignor to Messrs. John-Baker Sons & Perkins Limited, Willesden, England. Extrusion press. 1,472,249; Oct. 30.

Preuss, Fred A., Humphrey, Nebr. Seed-corn sheller. 1,472,672; Oct. 30.

Priess, William H., Belmont, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Apparatus for use in manufacturing condensers. 1,472,494; Oct. 30.

Prisk, John N., Johnstown, Pa. Butchering implement. 1,472,309; Oct. 30.

Probert, Sidney C. (See Alles, W. J., and Probert.)

Proctor & Schwartz, Inc. (See Ayres, Elwood B., assignor.)

Proctor & Schwartz, Inc. (See Rhoads, Thomas H., assignor.)

Purger, Raoul. (See Bouton, E. M., and Pruger.)

Puckett, Paul R., Atlanta, Ga. Container. 1,472,088; Oct 30.

Quinby, Harrison, Indianapolis, Ind., assignor to W. H. McFarland, Pittsburgh, Pa. Tractor. 1,472,136; Oct 30.

Rader, Orton R., Toledo, Ohio. Auxiliary water vapor and air valve for internal-combustion engines. 1,472,438; Oct. 30.

Radio Corporation of America. (See Round, Henry J., assignor.)

Rado, Alexander, M. Mayer, and L. von Egerházy, Budapest, Hungary. Bung for casks. 1,472,776; Oct. 30.

Rae, Frank B., assignor to F. J. Langer, Cleveland, Ohio. Ironing and steaming device. 1,472,089; Oct. 30.

Rauh, Herbert S., New York, N. Y. Gaiter. Des. 63,195; Oct. 30.

Read, Walter C., Bloomfield, N. J. Mechanical movement. 1,472,090; Oct. 30.

Reagan, Walter G., Lebanon, Ind. Combined egg candling and assembling device. 1,472,673; Oct. 30.

Reagan, Walter G., Lebanon, Ind. Combined egg candling and assembling device. 1,472,674; Oct. 30.

Reed, Joshua D., Union Township, Clermont County, Ohio. Casket cover and grave liner. 1,472,091; Oct. 30.

Reed, Milton C., Reeds, Mo. Fertilizer. 1,472,675; Oct. 30.

Reeves, Frank, Philadelphia, Pa., assignor to Gardner Textile Co., New York, N. Y. Woven fabric. Des. 63,196; Oct. 30.

Reid, John, London, England. Air heaters of steam-boiler furnaces. 1,472,310; Oct. 30.

Reid, Thomas A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric resistance furnace. 1,472,137; Oct. 30.

Reid, Thomas A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,472,138; Oct. 30.

Reid, Thomas A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,472,139; Oct. 30.

Rhoads, Thomas H., assignor to Proctor & Schwartz, Inc., Philadelphia, Pa. Truck for drying pottery, etc. 1,472,676; Oct. 30.

Richardson, Ulysses M., assignor of one-half to J. B. Crowley, Chicago, Ill. Tooth and preparing the same. 1,472,677; Oct. 30.

Richardson, Ulysses M., assignor of one-half to J. B. Crowley, Chicago, Ill. Tooth construction. 1,472,678; Oct. 30.

Richman, Walter H., Philadelphia, Pa. Making metallic cans and articles produced. 1,472,616; Oct. 30.

Richmond Pressed Metal Works, Inc. (See House, Thomas M., assignor.)

Ridder, Henry. (See Ellis, Charles E., assignor.)

Ripley, William R., Turlock, Calif. Ice-cream dipper. 1,472,533; Oct. 30.

Roberts and Schaefer Company. (See Jacobsen, Richard S., assignor.)

Roberts, Frank G., Baltimore, Md. Method of and apparatus for operating muffle furnaces. 1,472,401; Oct. 30.

Roberts Portable Oven Company. (See Splithoff, Harry S., assignor.)

Roddy, Gustav R., assignor to Chain Belt Company, Milwaukee, Wis. Traveling conveyer with gravity rollers. 1,472,679; Oct. 30.

Roffino, Mario, New York, N. Y. Concrete block construction. 1,472,680; Oct. 30.

Romadka, Clement F. (See Roth, S., and Romadka.)

Ronders, John J., Monongah, W. Va. Switch point. 1,472,140; Oct. 30.

Root, Chapman J., Terre Haute, Ind. Bottle. Des. 63,198; Oct. 30.

Root, Chapman J., Terre Haute, Ind. Bottle. Des. 63,200; Oct. 30.

Root, William R., Terre Haute, Ind. Bottle. Des. 63,199; Oct. 30.

Roth, Stanley, and C. F. Romadka, Milwaukee, Wis. Phonograph cabinet. Des. 63,197; Oct. 30.

Roto Company, The. (See Staley, Harrison L., assignor.)

Round, Henry J., London, England, assignor to Radio Corporation of America. Receiver for wireless telegraphy. 1,472,092; Oct. 30.

Rounseville, Luca H., assignor to C. A. Marsh & Company, Attleboro, Mass. Buckle. 1,472,250; Oct. 30.

Roy, Levi J., Providence, R. I. Pin and like securing device. 1,472,681; Oct. 30.

Ruh, Emmett E. (See Stockholm, William C., assignor.)

Runk, William B., Shelton, Conn., assignor to The Welman Brothers Manufacturing Company, Derby, Conn. Hopper. 1,472,495; Oct. 30.

Rutenber, Menzo A. (See Hoffman, F. D., and Rutenber.)

Ryan, Thomas A., Yonkers, N. Y. Firearm. 1,472,737; Oct. 30.

S. S. White Dental Manufacturing Company, The. (See Heck, George D., assignor.)

Safety Automatic Toy Company, The. (See Brinkman, Louis G., assignor.)

Sahlstrom, Gustav R., Sheridan, Wyo. Vehicle spring. 1,472,682; Oct. 30.

Sandoe, Clarence J., St. Louis, Mo. Screening device. 1,472,439; Oct. 30.

Schaffer, Max Co. (See Ohm, Albert J. D., assignor.)

Schaefer, Carl W. (See Goldrick, Albert R., assignor.)

Schaefer, Charles P., and R. M. Brown, Chicago, Ill. Construction tie. 1,472,194; Oct. 30.

Scheffer, Theodore H., Puyallup, and L. K. Couch, Olympia, Wash., assignors to Assistant Secretary of Agriculture of United States of America. Beaver trap. 1,472,683; Oct. 30.

Scheib, Peter, assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Tool retainer. 1,472,496; Oct. 30.

Scher, Louis S., New York, N. Y. Game apparatus. 1,472,568; Oct. 30.

Scherner, John, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-wrapping machine. 1,472,764; Oct. 30.

Schlatter, Gustav. (See Mayer, H. Schlatter, and Boeckly.)

Schlaupitz, Oswald, assignor to The Timken Roller Bearing Company, Canton, Ohio. Gauging instrument. 1,472,195; Oct. 30.

Schlaupitz, Oswald, assignor to The Timken Roller Bearing Company, Canton, Ohio. Limit gauge. 1,472,196; Oct. 30.

Schmid, William, Coldwater, Mich. Level wind reel. 1,472,684; Oct. 30.

Schmidt, Walter A., assignor to International Precipitation Company, Los Angeles, Calif. Means for separating suspended particles from gases. 1,472,231; Oct. 30.

Schnitzer, Louis M., L. Garroway, Brooklyn, and N. Gelfman, New York, N. Y. Tray handle. Des. 63,201; Oct. 30.

Scholes, Edmond P., San Jose, Calif., assignor of one-half to J. B. Sterling, New York, N. Y. Air brake. 1,472,497; Oct. 30.

Schuermann, Anton C. (See Mueller, P., and Schuermann.)

Schumacher, August, Flushing, N. Y. Brush. 1,472,685; Oct. 30.

Schwartz Belting Co. (See Schwartz, James M., assignor.)

Schwartz, James M., Boonton, N. J., assignor to Schwartz Belting Co. Clamp for stretching leather and the like. 1,472,617; Oct. 30.

Schwartz, James M., Boonton, N. J., assignor to Schwartz Belting Co. Adjustable clamp for the edges of leather and the like. 1,472,618; Oct. 30.

Schwartz, S. Robert, and A. Bostroem, New York, N. Y., assignors to said Schwartz. Mounting lamp shade. 1,472,686; Oct. 30.

Schwer, Mack M., Hackensack, N. J. Manufacture of paper containers. 1,472,440; Oct. 30.

Scott, Harry, Toledo, Ohio. Combination furniture. 1,472,687; Oct. 30.

Scott, Joseph W. (See Singer, John B., assignor.)

Scotts' Shipbuilding & Engineering Company. (See Nicholson, Andrew I., assignor.)

Scovill Manufacturing Company. (See Bagg, Hollis B., assignor.)

Scurlock, Olin W., and L. A. Gilbreath, Dallas, Tex. Moist heater. 1,472,569; Oct. 30.

Scyzoryk, William, Detroit, Mich. Smoker's stand attachment for beds. Des. 63,202; Oct. 30.

Sears, Roebuck and Co. (See Hoffman, Rudolph, assignor.)

Security Metal Products Company, The. (See Longman, Cecil H., assignor.)

Sefton Manufacturing Corporation. (See Gallistel, Clarence, assignor.)

Service Station Equipment Company. (See Patrick, H. E., Peterson, and Bermes, assignors.)

Sévigny, Hollis J., Sanford, Me. Support. 1,472,688; Oct. 30.

Shalkop, Isaac C. (See Heinitsh, W. W., Shalkop, and Lauterbach.)

Shaw, H. E., Furniture Co. (See Van Dommelen, Peter, assignor.)

Shelton, William G., New York, N. Y. Casing for violet-ray generators. Des. 63,203; Oct. 30.

Sherbondy, Earl H., assignor to S. D. Waldon, Detroit, Mich. Vehicle drive axle. 1,472,441; Oct. 30.

Showalterbaugh, Joseph, Gary, assignor to A. J. Miller, Hammond, Ind. Dirigible headlight. 1,472,141; Oct. 30.

Shubert, Joseph, Braddock, Pa. Wheeled toy. 1,472,498; Oct. 30.

Shull, Frederick G., Dallas, Tex., assignor to Aluminum Seal Company, Pittsburgh, Pa. Bottle closure. 1,472,093; Oct. 30.

Shurick, Edward P., assignor of one-half to S. P. Delsinger, Knoxville, Tenn. Combination mailing form. 1,472,142; Oct. 30.

Siebert, Werner, Laufenburg, Aargau, assignor to Nitrum Aktiengesellschaft, Zurich, Switzerland. Obtaining pure nitric acid from nitrous gases. 1,472,343; Oct. 30.

Siedhoff, George H., Wichita, Kans. Valet door. 1,472,251; Oct. 30.

Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Car-heating system. 1,472,143; Oct. 30.

Simon, Friedrich W., Oberursel, near Frankfort-on-the-Main, Germany. Leather beveling and splitting machine. 1,472,094; Oct. 30.

Simonton, Frank H., assignor of thirty-eight and one-half per cent to A. A. Smith and twenty-five per cent to J. E. Ferdinand, jr., New York, N. Y. Coffee brewing apparatus. Re15,707; Oct. 30.

Sinclair, Margaret A., Devonport, Auckland, New Zealand. Game. 1,472,311; Oct. 30.

Singer, John B., assignor of one-half to J. W. Scott, Waynoka, Okla. Combination wrench and pliers. 1,472,312; Oct. 30.

Skiles, William C., Jackson, Mich. Cushion grip for steering wheels. 1,472,689; Oct. 30.

Skinner, Chame D., New Kensington, Pa. Fare-recording mechanism. 1,472,690; Oct. 30.

Slater, Fred M. (See Bayles, L. C., and Slater.)

Smart, Henry A., and W. H. H. Cocke, jr., Danville, Va. Feeder for tentering machines. 1,472,499; Oct. 30.

Smith, Alfred A., et al. (See Simonton, Frank H., assignor.)

Smith, Frank E., assignor to Aetna Stamp Works, Inc., Hartford, Conn. Marking stamp. 1,472,282; Oct. 30.

Smith, Harold, Mitchana, assignor to Messrs. Joseph Baker Sons & Perkins Limited, Willesden, Middlesex, England. Endless-wire-belt conveyer. 1,472,252; Oct. 30.

Smith, Hewlet T., Oxnard, Calif. Oil-well apparatus. 1,472,283; Oct. 30.

Smith, John R., Cleveland, Ohio. Fabric bolt board. 1,472,253; Oct. 30.

Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Nitrostarch explosive. 1,472,691; Oct. 30.

Snider, Lloid H., Grand Rapids, Mich. Cabinet table. 1,472,570; Oct. 30.

Snider, William H., Welcome, N. C. Advertising apparatus. 1,472,692; Oct. 30.

Snow, Isaac, Lawrence, assignor to Hopedale Manufacturing Company, Milford, Mass. Warp stop motion for looms. 1,472,500; Oct. 30.

Snyder, Andrew M., Hamilton, Ohio. Cleaning and polishing fluid. 1,472,402; Oct. 30.

Société Anonyme Anciens Ateliers A. Dandrieux. (See Dandrieux, Auguste, assignor.)

Societe Anonyme Adolphe Saurer. (See Mayer, H., Schlatter, and Boeckly, assignors.)

Societe Anonyme des Appareils J. E. Malivert. (See Malivert, Jules E., assignor.)

Soderstrom, Gustave. (See Whittles, George C., assignor.)

Spadone Machine Co. (See Wegner, Julius and A. E., assignors.)

Spalding, A. G., & Bros. (See Aldrich, William T., assignor.)

Sparks, Charles, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. 1,472,254; Oct. 30.

Sperry Gyroscope Company, The. (See Titterington, Morris M., assignor.)

Splithoff, Harry S., assignor of one-half to Roberts Portable Oven Company, Chicago, Ill. Heat regulator for ovens. 1,472,693; Oct. 30.

Spry, Franklin B., Plymouth, Pa. Drill mounting. 1,472,694; Oct. 30.

St. Louis Butchers' and Hotel Supply Company. (See Wenke, C. W., and Ketterer, assignors.)

Staaf, Werner L., assignor, by mesne assignments, of one-half to L. H. Tyler, Pittsburgh, Pa. Return water trap. 1,472,232; Oct. 30.

Staf, Axel H., assignor to Gorham Manufacturing Company, Providence, R. I. Spoon or similar article. Des. 63,204; Oct. 30.

Staley, Harrison L., Martinsville, Ind., assignor to The Roto Company, Hartford, Conn. Cutter head for tube cleaners. 1,472,255; Oct. 30.

Stapley, Philip H., Waterbury, Conn., assignor to W. D. Carpenter Company, Syracuse, N. Y. Liquid-soap dispenser. 1,472,695; Oct. 30.

Starrett, Henry F., assignor to Starrett Mfg. Co., Chicago, Ill. Clamp. 1,472,619; Oct. 30.

Starrett Mfg. Co. (See Starrett, Henry F., assignor.)

Stephenson, George E., Chicago, Ill. Spotlight color screen. 1,472,095; Oct. 30.

Sterling, Jessie B. (See Scholes, Edmond P., assignor.)

Stevens, Burt D., Evanston, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Printing-press tripping appliance. 1,472,442; Oct. 30.

Stevenson, Norman, et al. (See Gay, George L., assignor.)

Stocklin, William C., assignor of one-half to E. E. Ruh, Columbus, Ohio. Automatic fishing-line reel. 1,472,144; Oct. 30.

Stokely, Ray L., Floral Park, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone-exchange system. 1,472,501; Oct. 30.
Stokes & Smith Company. (See Nitsch, C. H., and Federwitz, assignors.)
Strauss, Ernest H., Chicago, Ill. Lamp shade. 1,472,502; Oct. 30.
Streich, Frank, assignor to Union Machinery Company, Joliet, Ill. Wrapper and sealer for bread, cartons, bores, and the like. 1,472,096; Oct. 30.
Stringfield, George S., Columbus, Ohio. Means for shaping rubber articles. 1,472,256; Oct. 30.
Stroud, John B., Pass Christian, Miss. Demountable-rim tool. 1,472,777; Oct. 30.
Stuart, Andrew W., and J. W. O'Connor, Detroit, Mich. Child's vehicle. 1,472,375; Oct. 30.
Stufflebeam, Marion, St. David, Ill. Method and mean for handling cars in mines. 1,472,696; Oct. 30.
Sturt, Alfred T., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Multiple spring clutch. 1,472,697; Oct. 30.
Submarine Signal Company. (See Fessenden, R. A., Williams, and Wood, assignors.)
Superior Building Company, The. (See Oakes, Emmett L., assignor.)
Sutherland, Ernest E., Mansfield, Ohio, assignor to Westinghouse Products Company. Electric water heater. 1,472,197; Oct. 30.
Sutton, Eunice, assignor to Sutwa Mfg. Co., Inc., New York, N. Y. Display device. 1,472,097; Oct. 30.
Sutwa Mfg. Co. (See Sutton, Eunice, assignor.)
Swert, Melvin A., and M. D. Fernan, Binghamton, N. Y. Measuring device. 1,472,284; Oct. 30.
Sweetland, Ernest J., Montclair, N. J., assignor to United Filters Corporation, Salt Lake City, Utah. Filter. 1,472,098; Oct. 30.
Swole, Paul C. (See Kelsey, Frank N., assignor.)
System Machine Works. (See Dabadie, John L., assignor.)
Taylor, Asa J., jr., and C. E. Harper, jr., assignors of one-third to B. F. Cummings, Chicago, Ill. Vaporizer for internal-combustion engines. 1,472,233; Oct. 30.
Taylor, Harold B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,472,198; Oct. 30.
Taylor, Herbert B., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Switching device. 1,472,503; Oct. 30.
Taylor, William H., C. W. Downs, and J. W. Barbey, Detroit, Mich. Multiple fuse plug. 1,472,099; Oct. 30.
Tee-Lok Shingle Company. (See Harshberger, Norman P., assignor.)
Testa, Vincenzo D., Akron, Ohio. Door-fastening device. 1,472,698; Oct. 30.
Thal & Bitter Co., The. (See Bitter, Reuben H., assignor.)
Theberath, Joseph C., Cleveland, Ohio. Rim tool. 1,472,571; Oct. 30.
Thomas, Horace T., Lansing, Mich. Transmission gearing for automobiles. 1,472,285; Oct. 30.
Thomas, James F., Clarinda, Iowa. Bust developer. 1,472,234; Oct. 30.
Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Load-brake device. 1,472,100; Oct. 30.
Thompson, Harold E. (See Curme, G. O., jr., and Thompson.)
Thompson, Osceola G., Rockaway, N. J., assignor to Wirebounds Patents Company. Making box parts or boxes. 1,472,534; Oct. 30.
Thompson, Osceola G., Rockaway, N. J., assignor to Wirebounds Patents Company. Box and making the same. 1,472,535; Oct. 30.
Thomson, Bernard, Woldingham, England. Construction of wings of aeroplanes, seaplanes, and like aerial machines. 1,472,199; Oct. 30.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Electric heater. 1,472,504; Oct. 30.
Thomson, Philip W. T. R., Hollywood, Calif. Educational building block. 1,472,536; Oct. 30.
Thorstensen, James G., Clinton, Minn. Washboard. 1,472,537; Oct. 30.
Timken-Detroit Axle Company, The. (See Vanderbeek, Herbert, assignor.)
Timken Roller Bearing Company, The. (See Ellis, Llewellyn M., assignor.)
Timken Roller Bearing Company, The. (See Goughnour, George, assignor.)
Timken Roller Bearing Company, The. (See Schlaupitz, Oswald, assignor.)
Tirrith, Sam, Toledo, Ohio. Hand-propelled sled. 1,472,699; Oct. 30.
Titterington, Morris M., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Servo-motor for aeroplanes. 1,472,257; Oct. 30.
Titus, Albert G., Newton, Mass., assignor to The United Lace & Braid Mfg. Co., Cranston, R. I. Lacing package. 1,472,443; Oct. 30.
Titus, Thomas L. (See Nichols, R., and Titus.)
Toensfeldt, Ralf T., St. Louis, Mo., assignor to Holophane Glass Co., Inc., New York, N. Y. Lantern. Des. 63,205; Oct. 30.
Tompkins, John D., Valatie, N. Y. Method and machine for making paper. 1,472,572; Oct. 30.
Townsend, Arthur J. (See Naugle, H. M., and Townsend.)
Townsend, John S., assignor to Whiting Corporation, Harvey, Ill. Motor-driven ladle-turning mechanism. 1,472,286; Oct. 30.
Tri-City Steel Company. (See Hyle, Jacob A., assignor.)
Tri-Me Manufacturing Co. (See Cole, L. J., and Hauck, assignors.)
Trimble, Russell F., Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Making electrodes. 1,472,505; Oct. 30.
Trojan Powder Company. (See Snelling, Walter O., assignor.)
Trosien, Charles G., Pontiac, Mich. Gear lock for automobiles. 1,472,101; Oct. 30.
Turner, Arthur J., Vancouver, British Columbia, Canada. Kettle top. 1,472,313; Oct. 30.
Turner, Calvin, Bangor, Me. Cooking utensil. 1,472,376; Oct. 30.
Turner, David S. (See Perks W., Turner, and Williamson.)
Tyler, Lula H. (See Staaf, Werner I., assignor.)
U. S. Industrial Alcohol Co. (See Carter, Ray M., assignor.)
Uhrenfabrik vorm. L. Furtwängler Söhne A.-G. (See Lerche, Julius, assignor.)
Underfeed Stoker Company of America, The. (See Blackburn, A. H., and Fleming, assignors.)
Union Machinery Company. (See Streich, Frank, assignor.)
Union Special Machine Company. (See Moffatt, James R., assignor.)
United Alloy Steel Corporation. (See Polster, Ralph S., assignor.)
United Filters Corporation. (See Sweetland, Ernest J., assignor.)
United Lace & Braid Mfg. Co. (See Titus, Albert G., assignor.)
United Shoe Machinery Corporation. (See Bates, Arthur, assignor.)
United Shoe Machinery Corporation. (See Bazzoni, Lewis J., assignor.)
United Shoe Machinery Corporation. (See Brogan, James A., assignor.)
United Shoe Machinery Corporation. (See Eppler, Andrew, assignor.)
United Shoe Machinery Corporation. (See Jacques, George W., assignor.)
United Shoe Machinery Corporation. (See Keall, Frank B., assignor.)
United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
United Steel and Wire Co. (See Jarvis, Charles H., assignor.)
Universal Transmission Company. (See McCloskey, Thomas J., assignor.)
Uriga, Leopold, assignor to Firm of Landwirtschaftliche Maschinenfabrik, Wittenberge, Germany. Agricultural implement. 1,472,102; Oct. 30.
Vanderbeek, Herbert, assignor to The Timken-Detroit Axle Company, Detroit, Mich. Vehicle brake. 1,472,444; Oct. 30.
Van der Vort, Charles O., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. 1,472,506; Oct. 30.
Vandeveldе, Jean F. H., de V., Copenhagen, Denmark. Elevating plane for aeroplanes. 1,472,103; Oct. 30.
Van Dommelen, Peter, assignor to H. E. Shaw Furniture Co., Grand Rapids, Mich. Desk table. Des. 63,206; Oct. 30.
Van Dommelen, Peter, assignor to H. E. Shaw Furniture Co., Grand Rapids, Mich. Desk table. Des. 63,207; Oct. 30.
Van Dommelen, Peter, assignor to H. E. Shaw Furniture Co., Grand Rapids, Mich. Desk table. Des. 63,208; Oct. 30.
Van Eseltine, Floyd C., Eastwood, N. Y. Conveying apparatus. 1,472,445; Oct. 30.
Van Horn, William H. (See Kemp, William W., assignor.)
Vasseux, Auguste, St.-Mande, France. Preparation and use of food substances for vegetables, mushrooms, bacterias, yeast, molds, mucors, and the like. 1,472,344; Oct. 30.
Vaughan, Percy E., San Jose, Calif. Pump. 1,472,104; Oct. 30.
Vennes, Harald J., assignor to Western Electric Company, Incorporated, New York, N. Y. Artificial line. 1,472,507; Oct. 30.
Verhulst, George F., et al. (See Cryan, William H., assignor.)
Vester, Alfred, Sons, Inc. (See Howell, Hamilton T., assignor.)
Vickers Limited. (See Pierson, R. K., and Duncan, assignors.)
Vickery, Henry M., Los Angeles, Calif. Bumper. 1,472,700; Oct. 30.
Victor Manufacturing & Gasket Co. (See Oven, Frank J., assignor.)
Villeneuve, Archille, assignor to Levis Tool Factory, Ltd., Levis, Quebec, Canada. Split pulley. 1,472,145; Oct. 30.
Vogelaar, Anthony W., Bulyea, Saskatchewan, Canada. Tool box. 1,472,701; Oct. 30.
Von Bichowsky, Fooro, Glendale, Calif. Synthetic production of alkali-metal cyanides. 1,472,403; Oct. 30.

Von Egerházy, Ludwig. (See Radó, A., Mayer, and von Egerházy.)
Voss, William H., Davenport, Iowa. Wringer. 1,472,620; Oct. 30.
Wahnöe, Hermann A. T., Copenhagen, Denmark. Cryptograph. 1,472,775; Oct. 30.
Waldon, Sidney D. (See Sherbondy, Earl H., assignor.)
Walker, Chester E. (See Cloyd, Oliver H., assignor.)
Wallace, R., & Sons Mfg. Co. (See Hillbom, Henrik, assignor.)
Walpole, Benjamin M., assignor to National Gas Furnace Company, Providence, R. I. Annealing apparatus. 1,472,702; Oct. 30.
Walser, Robert, Union Hill, N. J. Automatic control for window shades. 1,472,703; Oct. 30.
Walton, Charles W., Fruitvale, Calif. Automobile hat-rack. 1,472,258; Oct. 30.
Walton, Ernest, Sheffield, England. Ingot and like mold. 1,472,200; Oct. 30.
Wanderley, Manoel V., New York, N. Y. Fire escape. 1,472,446; Oct. 30.
Wannenmacher, Rudolf. (See Etrich, I., and Wannenmacher.)
Ward, Alfred, Norfolk, Va. Percolator and electric heating attachment for the same. 1,472,704; Oct. 30.
Ward, Wallace E., assignor to A. H. Ingle, Rochester, N. Y. Vertical lathe. 1,472,105; Oct. 30.
Wardbaugh, Ralph, New York, N. Y. Clothesline bracket. 1,472,705; Oct. 30.
Warner, Alonzo A., assignor to Landers, Frary & Clark, New Britain, Conn. Lock faucet. 1,472,573; Oct. 30.
Warner Brothers Company, The. (See Warner, De Ver H., and D. C., assignors.)
Warner, De Ver C. (See Warner, De Ver H. and D. C.)
Warner, De Ver H., and D. C., assignors to The Warner Brothers Company, Bridgeport, Conn. Woman's fitted undergarment. 1,472,447; Oct. 30.
Warner Elevator Manufacturing Company, The. (See Cook, Howard B., assignor.)
Watrous, Earl G., Chicago, Ill. Closet. 1,472,259; Oct. 30.
Watson, John D., Appleton, Wis. Shuttle-throwing device. 1,472,260; Oct. 30.
Watson, Timothy J. (See Porter, James V., assignor.)
Way, Roy W. (See Cunningham, I., and Way.)
Weaver, Ira A., assignor to Weaver Manufacturing Company, Springfield, Ill. Antiskid-wheel-chain construction. 1,472,448; Oct. 30.
Weaver Manufacturing Company. (See Weaver, Ira A., assignor.)
Webster, Paul W., Pelham Manor, N. Y., assignor to Perry & Webster Incorporated, New York, N. Y. Process of and apparatus for drying and treating materials. 1,472,314; Oct. 30.
Weeks, Carl, Des Moines, Iowa. Perfume bottle. Des. 63,209; Oct. 30.
Wegner, Alfred E. (See Wegner, Julius and A. E.)
Wegner, Julius and A. E., assignors to Spadone Machine Co., New York, N. Y. Cutting device. 1,472,261; Oct. 30.
Weigel, Philip A., Riverton, N. J. Flexible bumper means for automobiles. 1,472,345; Oct. 30.
Weimann Brothers Manufacturing Company, The. (See Runk, William B., assignor.)
Weineck, Fred, St. Paul, Minn. Hot-air furnace or heater. 1,472,706; Oct. 30.
Weisz, Thomas, New York, N. Y. Sanitary waste receptacle. 1,472,707; Oct. 30.
Welch, Russell E., San Jose, Calif. Cutter for sliced potatoes. 1,472,315; Oct. 30.
Wendling, George X., San Francisco, Calif. Box. 1,472,346; Oct. 30.
Wendling, George X., San Francisco, Calif. Compartment end closure for boxes. 1,472,347; Oct. 30.
Wenke, Charles W., St. Louis, Mo., and C. A. Ketterer, East St. Louis, Ill., assignors to St. Louis Butchers' and Hotel Supply Company, St. Louis, Mo. Container support for refrigerators. 1,472,106; Oct. 30.
Wentling, Lester M., Foxburg, assignor of one-eighth to G. V. Gibson, West Monterey, one-eighth to R. H. Downing, sr., one-eighth to R. H. Downing, jr., one-eighth to A. J. Downing, Foxburg, one-eighth to D. G. Jordan, St. Petersburg, Pa., and one-eighth to A. L. Nevel, Emlenton, Pa. Safety switch point. 1,472,708; Oct. 30.
Wescott, William B., Wellesley, assignor by mesne assignments, to American Protein Corporation, Boston, Mass. Trocar. 1,472,377; Oct. 30.
Wescott, William B., Wellesley, assignor, by mesne assignments, to American Protein Corporation, Boston, Mass. Trocar. 1,472,378; Oct. 30.
Westerfield, Everett C., Tyrone, Okla. Wheel construction. 1,472,404; Oct. 30.
Western Electric Company. (See Akers, Milton K., assignor.)
Western Electric & Manufacturing Company. (See Bastian, Arthur J., assignor.)
Western Electric Company. (See Bell, John H., assignor.)
Western Electric Company. (See Bendernagel, William H., assignor.)
Western Electric Company. (See Blattner, David G., assignor.)
Western Electric Company. (See Boardman, Albert, assignor.)
Western Electric Company. (See Bowman, Herman N., assignor.)
Western Electric Company. (See Clark, Edgar H., assignor.)
Western Electric Company. (See Clausen, H. P., and Goodrum, assignors.)
Western Electric Company. (See Colpitts, Edwin H., assignor.)
Western Electric Company. (See Eaves, Augustus J., assignor.)
Western Electric Company. (See Forsberg, O. F., and de Vignier, assignors.)
Western Electric Company. (See Goodrum, Charles L., assignor.)
Western Electric Company. (See Hartley, Ralph V. L., assignor.)
Western Electric Company. (See Hillhouse, John T. E., assignor.)
Western Electric Company. (See King, Robert W., assignor.)
Western Electric Company. (See Mathes, Robert C., assignor.)
Western Electric Company. (See Morrill, Joseph B., assignor.)
Western Electric Company. (See Stokely, Ray L., assignor.)
Western Electric Company. (See Taylor, Herbert B., assignor.)
Western Electric Company. (See Trimble, Russell F., assignor.)
Western Electric Company. (See Van der Vort, Charles O., assignor.)
Western Electric Company. (See Vennes, Harald J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Bouton, E. M., and Pruger, assignors.)
Westinghouse Electric & Manufacturing Company. (See Brown, James M., assignor.)
Westinghouse Electric and Manufacturing Company. (See Fortescue, C. L., and Hibbard, assignors.)
Westinghouse Electric & Manufacturing Company. (See Haverstick, Earl J., assignor.)
Westinghouse Electric Products Company. (See Haynsworth, Julius D., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Holy, George H. F., assignor.)
Westinghouse Electric and Manufacturing Company. (See Kasley, Alexander T., assignor.)
Westinghouse Electric & Manufacturing Company. (See MacFarland, Allis M., assignor.)
Westinghouse Electric & Manufacturing Company. (See MacNeill, John B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Reid, Thomas A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Simmon, Karl A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Taylor, Harold B., assignor.)
Westinghouse Air Brake Company, The. (See Thomas, Thomas H., assignor.)
Westinghouse Electric Products Company. (See Woodson, James C., assignor.)
Westinghouse Products Company. (See Sutherland, Ernest E., assignor.)
Whaley and Miller Company. (See Miller, Walter J. B., assignor.)
Whalley, Enoch, Willimansett, Mass. Jack. 1,472,538; Oct. 30.
White Products Company. (See Covi, John B., assignor.)
White, William E., Chicago, Ill. Collapsible chair for concrete bars. 1,472,107; Oct. 30.
Whiting Corporation. (See Townsend, John S., assignor.)
Whittemore, Wallace R., Binghamton, N. Y. Rotating server. 1,472,348; Oct. 30.
Whittles, George C., Lyndhurst, assignor of one-half to G. Soderstrom, Newark, N. J. Line connector and adjuster. 1,472,621; Oct. 30.
Wico Electric Company. (See Brown, P., and Hendrickson, assignors.)
Wiesenfeld, Moses, Baltimore, Md. Artificial tree. 1,472,709; Oct. 30.
Williams, Lois M., Fort Thomas, Ky., assignor to Elgin National Watch Company, Elgin, Ill. Timepiece hand. Des. 63,210; Oct. 30.
Williams, Lois M., Fort Thomas, Ky., assignor to Elgin National Watch Company, Elgin, Ill. Timepiece hand. Des. 63,211; Oct. 30.
Williams, Robert L. (See Fessenden, R. A., Williams, and Wood.)
Williamson Deburring Co. Limited. (See Perks, W., Turner, and Williamson, assignors.)
Williamson, J. H., et al. (See Kirkpatrick, Monroe C., assignor.)
Williamson, John. (See Perks, W., Turner, and Williamson.)
Wilson, Alexander H., Chicago, Ill. Clutch. 1,472,710; Oct. 30.
Winchler, William H., St. Joseph, Mo. Pin extracting and replacing tool. 1,472,349; Oct. 30.
Wine, William E., Toledo, Ohio. Car-door-locking device. 1,472,539; Oct. 30.
Wine, William E., Toledo, Ohio. Car-door lock. 1,472,540; Oct. 30.

Winkelmüller, Karl, Leipzig-Lindenau, Germany. Manufacturing ribbed pipes. 1,472,146; Oct. 30.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stock-cutting machine. 1,472,108; Oct. 30.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoe bottoms. 1,472,109; Oct. 30.
Wirebounds Patents Company. (See Thompson, Osceola C., assignor.)
Wireless Specialty Apparatus Company. (See Pickard, Greenleaf W., assignor.)
Wireless Specialty Apparatus Company. (See Priess, William H., assignor.)
Wiseman, Vane et al. (See Kirkpatrick, Monroe C., assignor.)
Woelfel, George F., Lakewood, assignor of one-half to W. H. Abbott, East Cleveland, Ohio. Driving apparatus. 1,472,110; Oct. 30.
Wonder Trap Co. (See Baker, William E., assignor.)
Wood, Edward C. (See Fessenden, R. A., Williams, and Wood.)
Woodson, James C., Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Electrical heater for coffee urns. 1,472,201; Oct. 30.
Worthington Pump and Machinery Corporation. (See Newcomb, Robert E., assignor.)
Wright, Arthur, Upper Montclair, and F. W. Young, Verona, N. J. Filtration. 1,472,574; Oct. 30.
Wright, Parvin. (See Gerrard, A. J., and Wright.)
Wright, Richard M. (See Dawer, Antonio, assignor.)
Yarian, James L., assignor to H. H. Franklin Mfg. Company, Syracuse, N. Y. Intake manifold for internal-combustion engines. 1,472,449; Oct. 30.
Yetter, John C., Chicago, Ill. Means and methods for drying printed paper. 1,472,450; Oct. 30.
Young, Frank W. (See Wright, A., and Young.)
Young, Walter H., Detroit, Mich. Screw-cutting machine. 1,472,622; Oct. 30.
Zehrlaut, Dr. H., & Co. (See Dickescheid, Josef, assignor.)
Zeissler, Johannes K., Altona, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Solution of albumin containing medicinal and immunizing substances. 1,472,316; Oct. 30.
Zimmermann, William F., Maplewood, N. J., assignor to Gould & Eberhardt, Newark, N. J. Simplified spur-hobbing machine. 1,472,767; Oct. 30.
Zinker, Edward, Eugene, Oreg. Garden fountain. Des. 63,165; Oct. 30.
Zukowski, Stefan, assignor of forty-five per cent to L. Okonlewski, Pascoag, R. I. Sled. 1,472,711; Oct. 30.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 30TH DAY OF OCTOBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Acid from nitrous gases, Obtaining pure nitric. W. Siebert. 1,472,343; Oct. 30.
Acid-proof container. R. T. Griffiths. 1,472,166; Oct. 30.
Address plate and index card. C. E. Ellis. 1,472,057; Oct. 30.
Advertising apparatus. W. H. Snider. 1,472,692; Oct 30.
Advertising device. W. J. Le Vie. 1,472,222; Oct. 30.
Advertising device. D. G. Maxwell. 1,472,733; Oct. 30.
Aeroplanes, Elevating plane for. J. F. H. de V. Vandevelde. 1,472,103; Oct. 30.
Aeroplanes, seaplanes, and like aerial machines, Construction of wings of. B. Thomson. 1,472,199; Oct. 30.
Aeroplanes, Servo-motor for. M. M. Titterington. 1,472,257; Oct. 30.
Agricultural implement. W. D. Dewend. 1,472,209; Oct. 30.
Agricultural implement. L. Uriga. 1,472,102; Oct. 30.
Air brake. E. P. Scholes. 1,472,497; Oct. 30.
Aircraft, Tail skid for. R. K. Pierson and T. S. Duncan. 1,472,086; Oct. 30.
Airship. W. Link. 1,472,076; Oct. 30.
Alarm: *See*—
Burglar alarm.
Albumenous animal waste for the preparation of human food, Treatment of. P. Hildebrandt. 1,472,331; Oct. 30.
Albumin containing medicinal and immunizing substances, Solution of. J. K. Zeissler. 1,472,316; Oct. 30.
Alloy, Aluminum-base. R. S. Archer and Z. Jeffries. 1,472,739–40; Oct. 30.
Alloy and treating it, Aluminum-base. R. S. Archer and Z. Jeffries. 1,472,738; Oct. 30.
Animal trap. W. E. Baker. 1,472,423; Oct. 30.
Animal trap. A. J. Fall. 1,472,210; Oct. 30.
Animal trap. A. Gufler. 1,472,217. Oct. 30.
Annealing apparatus. B. M. Walpole. 1,472,702; Oct. 30.
Antiskid-wheel-chain construction. I. A. Weaver. 1,472,448; Oct. 30.
Arm, Artificial. F. A. Kenney. 1,472,177; Oct. 30.
Artificial tree. M. Wiesenfeld. 1,472,709; Oct. 30.
Automatic switch. O. F. Forsberg and R. M. de Vignier. 1,472,465; Oct. 30.
Automatic switch for interconnecting lines. F. Aldendorff. 1,472,351; Oct. 30.
Automobile chains, Fastener for. C. V. Banes. 1,472,038; Oct. 30.
Automobile check. W. McNames. 1,472,727; Oct. 30.
Automobile cover or garage. L. C. Holling. 1,472,651. Oct. 30.
Automobile doors, Combined jamb and buffer for. M. T. Cody, J. Gray, and K. Forbes. 1,472,715; Oct. 30.
Automobile gear lock. C. G. Trosien. 1,472,101; Oct. 30.
Automobile gear-shift-lever grip. R. R. Fudge. Des. 63,170–1; Oct. 30.
Automobile hatrack. C. W. Walton. 1,472,258; Oct. 30.
Automobile hoods and the like, Fastener for. D. Bourque. 1,472,630; Oct. 30.
Automobile identification and registration plate. W. F. Little. Des. 63,189; Oct. 30.
Automobile panel construction. W. B. Michel. 1,472,304; Oct. 30.
Automobile signal. F. Fox. 1,472,592; Oct. 30.
Automobile signal. I. G. Holland and G. A. Broughton. 1,472,718; Oct 30.
Automobile signal. J. McCarthy. 1,472,248; Oct. 30.
Automobile signal indicator. P. Capocci. 1,472,550; Oct. 30.
Automobile theft detector. J. J. Michalski. Re15,709; Oct. 30.
Automobile traffic-signal device. C. H. Hughes. 1,472,273; Oct. 30.
Automobile transmission gearing. H. T. Thomas. 1,472,285; Oct. 30.
Automobile wheel. H. M. Brown. 1,472,352; Oct. 30.
Automobile wheels, Wire-rope shackle for. E. E. Chapman. 1,472,155; Oct. 30.
Automobiles, Flexible bumper means for. P. A. Weigel. 1,472,345; Oct. 30.
Automobiles, Slot closure for Ford. I. Leiker. 1,472,721–2; Oct. 30.
Awning operators, Cord tightner for. T. Benson. 1,472,742; Oct. 30.
Axle journals, Lubricating device for. W. Holtorp. 1,472,363; Oct. 30.
Axle, Vehicle drive. E. H. Sherbondy. 1,472,441; Oct. 30.
Bank, Coin. I. J. Kusel. Des. 63,188; Oct 30.
Barrel stand. A. J. Miller. 1,472,734; Oct. 30.
Basket or receptacles, Display. C. H. Jarvis. 1,472,598; Oct. 30.
Batteries, Terminal seal for storage. B. Ford. 1,472,391; Oct. 30.
Beaver trap. T. H. Scheffer and L. K. Couch. 1,472,683; Oct. 30.
Bed for automobiles, boats, etc. W. Peck. 1,472,491; Oct. 30.
Bed shield. G. L. Marvin. 1,472,731; Oct. 30.
Beds, Smokers' stand attachment for. W. Scyzoryk. Des. 63,202; Oct. 30.
Bedspring support. C. Hobert. 1,472,361; Oct .30.
Belt dressing, Antifriction. M. Planko. 1,472,400; Oct. 30.
Binder, Loose-leaf. A. J. Koepsell. 1,472,301; Oct. 30.
Block-making machine, Plastic-. S. H. Pettengill. 1,472,399; Oct. 30.
Blocks, Making building. R. B. Dula. 1,472,516; Oct. 30.
Board: *See*—
Fabric bolt board.
Bobbin holder. J. Fournier. 1,472,591; Oct. 30.
Boiler: *See*—
Steam boiler.
Boll-weevil exterminator. C. W. Brooks. 1,472,544; Oct. 30.
Bolt and inclosure embodying same, Spring relief. R. Amberton. 1,472,405; Oct. 30.
Bottle. C. J. Root. Des. 63,198; Oct. 30.
Bottle. W. R. Root. Des. 63,199; Oct. 30.
Bottle. C. J. Root. Des. 63,200; Oct. 30.
Bottle-capping machines, Crimping device for. E. Nordstrom. 1,472,489; Oct. 30.
Bottle closure. F. G. Sbull. 1,472,093; Oct. 30.
Bottle container, Milk-. J. V. Porter. 1,472,437; Oct. 30.
Bottle, Perfume. C. Weeks. Des. 63,209; Oct. 30.
Box: *See*—
Tool box.
Box. G. X. Wendling. 1,472,346; Oct. 30.
Box and making the same. O. C. Thompson. 1,472,535; Oct. 30.
Box handle. J. H. Beckman. 1,472,508; Oct. 30.
Box or container and sealing same. C. C. Mengel. 1,472,661; Oct. 30.
Box parts or boxes, Making. O. C. Thompson. 1,472,534; Oct. 30.
Boxes, Compartment end closure for. G. X. Wendling. 1,472,347; Oct. 30.
Brace: *See*—
Railway-rail brace.
Bracket: *See*—
Clothesline bracket.
Braiding machines, Bobbin stand for. A. Petersen. 1,472,492; Oct. 30.
Brake: *See*—
Air brake. Vehicle brake.
Brake. E. M. Bouton and R. Pruger. 1,472,151; Oct. 30.
Brake. J. A. La Viers. 1,472,302; Oct. 30.
Brake device, Load-. T. H. Thomas. 1,472,100; Oct. 30.
Brake mechanism, Hydraulic. L. L. Mack. 1,472,369; Oct. 30.
Bridges, Stabilizing means for. R. Z. Drake. 1,472,055; Oct. 30.
Brush. A. Schumacher. 1,472,685; Oct. 30.
Brushes, Making. W. F. Graul. 1,472,165; Oct. 30.
Buckle. L. H. Rounseville. 1,472,250; Oct. 30.
Building block, Educational. P. W. T. R. Thomson. 1,472,536; Oct. 30.
Building column. J. Lally. 1,472,600; Oct. 30.
Building columns, Cap for. J. Lally. 1,472,602–3; Oct. 30.
Building construction. G. Jackson. 1,472,654; Oct. 30.
Building element. M. M. Harrison. 1,472,521; Oct. 30.
Buildings, Joint for portable sectional. E. L. Oakes. 1,472,490; Oct. 30.
Bumper. H. M. Vickery. 1,472,700; Oct. 30.
Burglar alarm. J. F. and F. C. Gorman. 1,472,750; Oct. 30.
Burner: *See*—
Gas burner. Kerosene-gas burner.
Burring machine, Wool and hair. W. Perks, D. S. Turner, and J. Williamson. 1,472,308; Oct. 30.
Bus-bar-supporting structure. J. M. Brown. 1,472,154; Oct. 30.

Bushing tool. A. F. Huntington. 1,472,759; Oct. 30.
Bust developer. J. F. Thomas. 1,472,234; Oct. 30.
Butchering implement. J. N. Prisk. 1,472,309; Oct. 30.
Button-blank-cutting machine, Automatic. W. E. Knott. 1,472,275; Oct. 30.
Button, Collar. W. B. Murphy. 1,472,374; Oct. 30.
Cab turret. C. M. Bell. 1,472,265; Oct. 30.
Cabinet table. L. H. Snider. 1,472,570; Oct. 30.
Cable equalizer. H. B. Cook. 1,472,386; Oct. 30.
Calculating instrument. H. C. Ford. 1,472,590; Oct. 30.
Calculator, Interest. A. C. Meyer. 1,472,276; Oct. 30.
Calf weaner. W. R. Baille. 1,472,542; Oct. 30.
Calling device. J. T. E. Hillhouse. 1,472,595; Oct. 30.
Can cover, Milk-. C. O. Johnson and A. F. Bergholz. 1,472,220; Oct. 30.
Cans and articles produced, Making metallic. W. H. Richman. 1,472,616; Oct. 30.
Cans, Manufacture of dry-battery. W. H. Finkeldey and W. M. Peirce. 1,472,359; Oct. 30.
Canopy for lighting fixtures. H. T. Howell. Des. 63,178; Oct. 30.
Car construction. J. A. Pilcher. 1,472,135; Oct. 30.
Car-door lock. W. H. Wine. 1,472,540; Oct. 30.
Car-door-locking device. W. E. Wine. 1,472,539; Oct. 30.
Car-heating system. K. A. Simmon. 1,472,143; Oct. 30.
Car roof. W. P. Murphy. 1,472,187–9; Oct. 30.
Car stop. W. M. Osborn. 1,472,132; Oct. 30.
Car, Tank. A. M. Nelson. 1,472,488; Oct. 30.
Cars, Brake rigging for rail. M. C. Frins and C. F. Drumm, jr. 1,472,390; Oct. 30.
Cars, Driving mechanism for motor. A. F. Baker. Re15,711; Oct. 30.
Cars in mines, Method and means for handling. M. Stufflebeam. 1,472,696; Oct. 30.
Carburetor. B. N. Pierce. 1,472,615; Oct. 30.
Carburetor, Vacuum. E. L. Meisinger. 1,472,660; Oct. 30.
Carton folding and filling machine. R. A. Jones. 1,472,364; Oct. 30.
Carton opener. W. G. Grimmer. 1,472,269; Oct. 30.
Cartons, boxes, and the like, Wrapper and sealer for bread. F. Streich. 1,472,096; Oct. 30.
Case hardening, Method of and apparatus for. W. W. Kemp. 1,472,367; Oct. 30.
Cask bung. A. Radó, M. Mayer, and L. von Egerházy. 1,472,776; Oct. 30.
Casket cover and grave liner. J. D. Reed. 1,472,091; Oct. 30.
Casting metal pigs or bars, Machine for. E. H. Acton. 1,472,623; Oct. 30.
Cementing machine. W. P. Osgood. 1,472,083; Oct. 30.
Cellulose and preparation, Corncob. F. C. Atkinson. 1,472,318; Oct. 30.
Chain lock, Combination. W. Burkle. 1,472,206; Oct. 30.
Chair: *See*—
Dental chair. Nursery chair.
Cheese and other substances, Machine for cutting. W. H. and L. Mellor. 1,472,224; Oct. 30.
Chlorine and other corrosive gases, Purifying. G. O. Curme, jr., and H. E. Thompson. 1,472,294; Oct. 30.
Christmas trees or the like, Ornament for. G. E. Grimm. 1,472,520; Oct. 30.
Cigarette and match dispensing receptacle. S. Creazzo. Des. 63,173; Oct. 30.
Circuit breaker, Automatic maximum and minimum current. V. Martinetto. 1,472,370; Oct. 30.
Circuits, Testing. D. G. Blattner. 1,472,455; Oct. 30.
Clamp: *See*—
Clothesline clamp. Concrete-form clamp.
Clamp. F. C. Atwood. 1,472,380; Oct. 30.
Clamp. H. F. Starrett. 7,472,619; Oct. 30.
Clamshell. J. Martin. 1,472,336; Oct. 30.
Cleaner: *See*—
Window cleaner. Windshield cleaner.
Cleaning and polishing fluid. A. M. Snyder. 1,472,402; Oct. 30.
Cleaning machine, Floor-. A. Dawer. 1,472,208; Oct. 30.
Clip: *See*—
Shoe-tongue clip.
Clock mechanism. M. Picciotti. 1,472,532; Oct. 30.
Closet. E. G. Watrous. 1,472,259; Oct. 30.
Cloth stitching and cutting machine. F. R. Evans. 1,472,410; Oct. 30.
Clothesline bracket. R. Wardhough. 1,472,705; Oct. 30.
Clothesline clamp. A. Bettinardi. 1,472,042; Oct. 30.
Clutch. W. L. Lindgren. 1,472,479–80; Oct. 30.
Clutch. A. H. Wilson. 1,472,710; Oct. 30.
Clutch, Friction. A. B. Browne. 1,472,114; Oct. 30.
Clutch, Multiple spring. A. T. Sturt. 1,472,697; Oct. 30.
Clutch-operating mechanism. B. M. Fine. 1,472,411; Oct. 30.
Clutch-pedal-operating device. H. O. Conrad. 1,472,513; Oct. 30.
Coal-cutting machine and tool. I. Etrich and R. Wannenmacher. 1,472,641; Oct. 30.
Coaling station, Shallow-pit. R. S. Jacobsen. 1,472,597; Oct. 30.
Coating. J. A. Daly. 1,472,244; Oct. 30.
Coating material from coated articles, Removal of excess. C. L. Peirce, jr. 1,472,228; Oct. 30.
Coffee-brewing apparatus. F. H. Simonton. Re15,707; Oct. 30.
Coffee urn. P. Capocci. 1,472,551; Oct. 30.
Coffee urns, Electrical heater for. J. C. Woodson. 1,472,201; Oct. 30.
Coin-holding device. J. N. Edelin. 1,472,268; Oct. 30.
Coke-drawing machine. R. D. Martin. 1,472,730; Oct. 30.
Coloring matter, Disazo. A. W. Joyce. 1,472,333; Oct. 30.
Combination lock. R. Baer. 1,472,577; Oct. 30.
Combination lock. A. Dennyer. 1,472,409; Oct. 30.
Commutator motor, Single-phase. R. E. Hellmund. 1,472,172; Oct. 30.
Compass, Electromagnetic. G. W. Pickard. 1,472,342; Oct. 30.
Compressor, Spring. C. N. Graves. 1,472,752; Oct. 30.
Concrete bars, Collapsible chair for. W. E. White. 1,472,107; Oct. 30.
Concrete block construction. M. Roffino. 1,472,680; Oct. 30.
Concrete-building form. D. D. Hughes. 1,472,174; Oct. 30.
Concrete construction. R. A. Megenity. 1,472,373; Oct. 30.
Concrete-form clamp. E. R. Perry. 1,472,436; Oct. 30.
Condensers, Apparatus for use in manufacturing. W. H. Priess. 1,472,494; Oct. 30.
Condensers, Electrolyte for electrolytic. E. J. Haverstick. 1,472,169; Oct. 30.
Confection mold. C. A. Plempel. 1,472,229; Oct. 30.
Construction tie. C. P. Schaefer and R. M. Brown. 1,472,194; Oct. 30.
Container. R. Buedingen. 1,472,582; Oct. 30.
Container. P. R. Puckett. 1,472,088; Oct. 30.
Container, Folding. A. L. Hawes. 1,472,755; Oct. 30.
Control system. C. L. Fortescue and L. J. Hibbard. 1,472,161; Oct. 30.
Conveyer, Endless. A. L. Clark. 1,472,049; Oct. 30.
Conveyer, Endless-wire-belt. H. Smith. 1,472,252; Oct. 30.
Conveyer with gravity rollers, Traveling. G. R. Roddy. 1,472,679; Oct. 30.
Conveying apparatus. F. C. Van Eseltine. 1,472,445; Oct. 30.
Cooking utensil. A. H. Brunner. 1,472,205; Oct. 30.
Cooking utensil. C. Turner. 1,472,376; Oct. 30.
Coop, Collapsible. J. O. Farrar. 1,472,159; Oct. 30.
Corn picker. J. A. Buckingham. 1,472,407; Oct. 30.
Corn sheller, Seed. F. A. Preuss. 1,472,672; Oct. 30.
Cotton-thinning machine. R. S. Bonner. 1,472,288; Oct. 30.
Coupling: *See*—
Draft coupling. Pipe coupling.
Cream separator. P. C. Philip. 1,472,085; Oct. 30.
Cryptograph. H. A. T. Wahnée. 1,472,775; Oct. 30.
Currents, Method of and means for producing alternating. R. V. L. Hartley. 1,472,470; Oct. 30.
Curtain holdback. C. W. Kirsch. 1,472,599; Oct. 30.
Curtain support. J. Fraser. 1,472,766; Oct. 30.
Cutter for sliced potatoes. R. E. Welch. 1,472,315; Oct. 30.
Cutter-head attachment. H. H. Manning. 1,472,565; Oct. 30.
Cutting device. J. and A. E. Wegner. 1,472,261; Oct. 30.
Cutting machine, Selvage-edge-. J. W. Brundage. 1,472,547; Oct. 30.
Cyanides, Synthetic production of alkali-metal. F. Von Bichowsky. 1,472,403; Oct. 30.
Cylinder-lapping machine. W. J. Alles and S. C. Probert. 1,472,379; Oct. 30.
Cylinders, Means for resurfacing. O. A. Anderson and J. M. Macrae. 1,472,036; Oct. 30.
Dauber. W. E. Castle and R. L. Hansard. 1,472,408; Oct. 30.
Dental chair. G. D. Heck. 1,472,272; Oct. 30.
Dentiphone. J. W. Gonce. 1,472,214; Oct. 30.
Denture and producing same, Artificial. J. A. Daly. 1,472,245; Oct. 30.
Desk table. P. Van Dommelen. Des. 63,206–8; Oct. 30.
Detector: *See*—
Automobile theft detector.
Die: *See*—
Forming die.
Differential. C. Andrade, jr. 1,472,452; Oct. 30.
Differential. S. O. Hulett. 1,472,758; Oct. 30.
Digger: *See*—
Potato digger.
Direction signal. R. F. Pfau. 1,472,671; Oct. 30.
Display device, Collapsible. A. Dietsche, jr. 1,472,355; Oct. 30.
Disk wheel, Armored pneumatic. W. G. Hawkins and V. C. Bloodgood. 1,472,271; Oct. 30.
Dispensing device. A. E. Cantrell. 1,472,046; Oct. 30.
Display device. E. Sutton. 1,472,097; Oct. 30.
Door construction, Swinging and sliding. M. A. Brown. 1,472,457; Oct. 30.
Door-fastening device. V. D. Testa. 1,472,698; Oct. 30.
Door hanger. I. W. Davis. 1,472,156; Oct. 30.
Door, Valet. G. H. Siedhoff. 1,472,251; Oct. 30.
Door wicket. W. J. B. Miller. 1,472,663; Oct. 30.
Doorstop. J. W. McElroy. Des. 63,190; Oct. 30.
Doorstop, Adjustable. G. T. Morris. 1,472,531; Oct. 30.
Draft coupling. A. M. McLamb. 1,472,368; Oct. 30.
Drag, Road. G. H. Gunderson. 1,472,168; Oct. 30.
Dressing apparatus, Commutator-. W. H. Jordan. 1,472,365; Oct. 30.
Drier. E. B. Ayres. 1,472,741; Oct. 30.
Drill mounting. F. B. Spry. 1,472,694; Oct. 30.
Drills, Oiling device for rock. L. C. Bayles. 1,472,424; Oct. 30.

Driving apparatus. G. F. Woelfel. 1,472,110; Oct. 30.
Drum stick, Snare-. U. G. Leedy. 1,472,397; Oct. 30.
Drying and treating material, Process of and apparatus for. P. W. Webster. 1,472,314; Oct. 30.
Drying machine. G. W. Hedstrom. 1,472,417; Oct. 30.
Dyes, Disazo. A. W. Joyce. 1,472,334; Oct. 30.
Edge-setting machine. F. B. Keall. 1,472,071; Oct. 30.
Egg candling and assembling device, Combined. W. G. Reagan. 1,472,673–4; Oct. 30.
Electric currents of constant frequency, Maintaining. W. G. Cady. 1,472,583; Oct. 30.
Electric furnace. T. A. Reid. 1,472,138–9; Oct. 30.
Electric heater. J. D. Haynsworth. 1,472,171; Oct. 30.
Electric heater. E. Thomson. 1,472,504; Oct. 30.
Electric iron. Y. Moore. 1,472,762; Oct. 30.
Electric resistance furnace. T. A. Reid. 1,472,137; Oct. 30.
Electrode holder. G. Goughnour. 1,472,215; Oct. 30.
Electrodes, Making. R. F. Trimble. 1,472,505; Oct. 30.
Electron-discharge device. R. W. King. 1,472,477; Oct. 30.
Embroidered fabric. C. F. Iklé. Des. 63,179–82; Oct. 30.
Emulsions, Making. W. P. Davey. 1,472,716; Oct. 30.
Engine: *See*—
Explosion engine. Internal-combustion engine.
Hydraulic engine.
Engine. W. S. Harley. 1,472,068; Oct. 30.
Engines, Auxiliary water vapor and air valve for internal-combustion. O. R. Rader. 1,472,438; Oct. 30.
Engines, Fuel vaporizer for explosive. M. Beck. 1,472,264; Oct. 30.
Engines, Intake manifold for internal-combustion. J. L. Yarian. 1,472,449; Oct. 30.
Engines, Vaporizer for internal-combustion. A. J. Taylor, jr., and C. E. Harper, jr. 1,472,233; Oct. 30.
Envelope closure. J. H. Goodier. 1,472,647; Oct. 30.
Eraser-cleaning machine. O. L. Evans. 1,472,060; Oct. 30.
Ester condensation products, Making. R. M. Carter. 1,472,324; Oct. 30.
Excavating, moving, and surfacing machine, Automotive material. R. E. Bressler. 1,472,580; Oct. 30.
Explosion engine. I. Cunningham and R. W. Way. 1,472,634; Oct. 30.
Explosive, Nitrostarch. W. O. Snelling. 1,472,691; Oct. 30.
Extrusion press. W. E. Prescott. 1,472,249; Oct. 30.
Fabric belt board. J. R. Smith. 1,472,253; Oct. 30.
Fabric, Woven. F. Reeves. Des. 63,196; Oct. 30.
Fabrics, Coating woven. W. T. Plum, jr. 1,472,230; Oct. 30.
Fans, M. M. Glasser. Re15,705; Oct. 30.
Fans, Air-heating attachment for. F. M. Howe and C. Naegeli. 1,472,124; Oct. 30.
Fare-recording mechanism. C. D. Skinner. 1,472,690; Oct. 30.
Fastener-setting device. G. W. Jacques. 1,472,247; Oct. 30.
Faucet lock. A. A. Warner. 1,472,573; Oct. 30.
Fender and lamp brace, Combination. R. J. E. Hicks. 1,472,523; Oct. 30.
Fertilizer. M. C. Reed. 1,472,675; Oct. 30.
Fiber-dressing apparatus. O. and H. La White. 1,472,419; Oct. 30.
Filter. E. J. Sweetland. 1,472,098; Oct. 30.
Filtration. A. Wright and F. W. Young. 1,472,574; Oct. 30.
Fire escape. W. T. Bassett. 1,472,203; Oct. 30.
Fire escape. M. V. Wanderley. 1,472,446; Oct. 30.
Firearm. T. A. Ryan. 1,472,737; Oct. 30.
Fish bait, Artificial. R. F. Dickman. 1,472,638; Oct. 30.
Fishing-line reel, Automatic. W. C. Stocklin. 1,472,144; Oct. 30.
Fishing tool. C. H. Brown. 1,472,713; Oct. 30.
Flash light, Magneto. A. Luzy. 1,472,335; Oct. 30.
Flask: *See*—
Molding flask.
Flies, Course director for. M. J. Kivlin. 1,472,127; Oct. 30.
Flowerpot handle. R. H. Comstock. 1,472,461; Oct. 30.
Flower stand. H. V. Bigham. Des. 63,168–9; Oct. 30.
Fodder from straw—e. g., of corn or legumes, Preparing. E. Beckmann. 1,472,322; Oct. 30.
Fodder from straw or other materials characterized by their contents of raw fibers, Preparing a. E. Beckmann. 1,472,319–21; Oct. 30.
Folding machine. L. J. Bazzoni. 1,472,041; Oct. 30.
Folding machines, Stopping device for. O. C. Goulet. 1,472,751; Oct. 30.
Folding table. E. V. Anderson. 1,472,575; Oct. 30.
Food substances for vegetables, mushrooms, bacterias, yeast, molds, mucors, and the like, Preparation and use of. A. Vasseux. 1,472,344; Oct. 30.
Formaldehyde condensation products of phenols, Manufacture of. J. G. Byrom. 1,472,353; Oct. 30.
Forming die. C. D. Briddell. 1,472,406; Oct. 30.
Fountain: *See*—
Water fountain.
Fountain, Garden. E. Ziniker. Des. 63,165; Oct. 30.
Frame: *See*—
Metal frame.
Franking machine. J. Lerche. 1,472,723; Oct. 30.
Fruit clipper. L. M. Harvey. 1,472,392; Oct. 30.
Fruit peeler. T. De Port. 1,472,462; Oct. 30.
Fuel vaporizing and mixing mechanism. F. D. Mowen. 1,472,665; Oct. 30.
Furnace: *See*—
Electric furnace. Underfeed furnace.
Electric resistance furnace.
Furnace. H. A. Kunitz. 1,472,529; Oct. 30.
Furnace or heater, Hot-air. F. Weineck. 1,472,706; Oct. 30.
Furnace smoke model or demonstrating device. W. E. Johnston. 1,472,475; Oct. 30.
Furnaces, Air heaters of steam-boiler. J. Reid. 1,472,310; Oct. 30.
Furnaces, Method of and apparatus for operating muffle. F. G. Roberts. 1,472,401; Oct. 30.
Furniture attachment. D. Owings. 1,472,339; Oct. 30.
Furniture, Combination. H. Scott. 1,472,687; Oct. 30.
Fuse plug. E. Nomburg. 1,472,082; Oct. 30.
Fuse plug, Multiple. W. H. Taylor, C. W. Downs, and J. W. Barbey. 1,472,089; Oct. 30.
Gaiter. H. S. Raub. Des. 63,195; Oct. 30.
Game. W. W. Lillard. 1,472,657; Oct. 30.
Game. M. A. Sinclair. 1,472,311; Oct. 30.
Game apparatus. L. S. Scher. 1,472,568; Oct. 30.
Garment closure. J. J. Phelan. 1,472,340; Oct. 30.
Garment fastener. R. A. Nowak. 1,472,192; Oct. 30.
Gas and other meters, Self-locking seal for. P. Chinzeris. 1,472,745; Oct. 30.
Gas burner. S. A. D. Cox. 1,472,554; Oct. 30.
Gases, Means for separating suspended particles from. W. A. Schmidt. 1,472,231; Oct. 30.
Gasket. F. J. Oven. 1,472,133; Oct. 30.
Gate. W. P. Foley and R. W. Knupp. 1,472,645; Oct 30.
Gauge: *See*—
Limit gauge.
Gauging instrument. O. Schlaupitz. 1,472,195; Oct. 30.
Gear, Automatic change. E. J. Appleberg. 1,472,263; Oct. 30.
Gear for electric driving mechanism, Control-. C. K. Edwards. 1,472,358; Oct. 30.
Gear for automobiles, Differential. C. C. Boomsliter. 1,472,629; Oct. 30.
Gear for the control of engine valves, Hydraulic. A. I. Nicholson. 1,472,613; Oct. 30.
Gear wheel. A. J. Bastian. 1,472,147; Oct. 30.
Gears, Making forged tractor. R. Henry and W. M. Mansfield. 1,472,522; Oct. 30.
Gearing, Change-speed. J. H. Hand. 1,472,121–2; Oct. 30.
Girdle or corset. C. M. Carr. 1,472,552; Oct. 30.
Glass, Apparatus for treating. A. Boardman. 1,472,456; Oct. 30.
Glass, Caliper-reading. C. V. Larson. 1,472,074; Oct. 30.
Glass-making apparatus, Blowpipe for. J. C. Campbell. 1,472,291; Oct. 30.
Golf-bag support. C. J. C. Moon. 1,472,664; Oct. 30.
Grading and excavating machine. E. S. Knight. 1,472,562; Oct. 30.
Grapple. I. N. Mercer. 1,472,081; Oct. 30.
Greenhouse and conservatory. P. J. Foley. 1,472,120; Oct. 30.
Gumming and covering blanks, Machine for. C. H. Nitsch and T. A. Federwitz. 1,472,614; Oct. 30.
Gun and feeding same, Centrifugal machine. J. T. McNaier. 1,472,080; Oct. 30.
Gun, Machine. J. T. Kewish. 1,472,126; Oct. 30.
Gutter hanger. W. F. Morhoff. 1,472,612; Oct. 30.
Hair waver. W. C. Haberkamp. 1,472,561; Oct. 30.
Handle: *See*—
Box handle. Flowerpot handle.
Handles, Machine for shaping tong. C. D. Briddell. 1,472,510; Oct. 30.
Hanger: *See*—
Door hanger. Sheet-metal hanger.
Gutter hanger. Wall hanger.
Harpooning apparatus, Whale-. J. D. Loop. 1,472,223; Oct. 30.
Harrows, Gang-adjusting device for. H. S. Dickinson. 1,472,515; Oct. 30.
Harvester and binder, Corn. H. J. Case. 1,472,429; Oct. 30.
Harvester, Fruit and nut. W. Abildgaard. 1,472,262; Oct. 30.
Hasp. G. A. Carlson. 1,472,512; Oct. 30.
Hatbox. J. Cavanagh. 1,472,430; Oct. 30.
Headlight, Automatic dirigible. T. D. McCown and J. A. Blanchard. 1,472,564; Oct. 30.
Headlight, Dirigible. J. Showalterbaugh. 1,472,141; Oct. 30.
Headlight for vehicles. M. A. Ford. 1,472,061; Oct. 30.
Heater: *See*—
Electric heater. Throttle heater.
Moist heater. Water heater.
Heating system. T. A. Holmberg. 1,472,757; Oct. 30.
Heating unit, Hot-water. H. Eschert. 1,472,059; Oct. 30.
Hedge trimmer. R. A. Cordell. 1,472,633; Oct. 30.
Heel-gouging machine. D. Parks. 1,472,567; Oct. 30.
Heel-turning machine, Wood-. E. W. Bailly. 1,472,625; Oct. 30.
Helicopter. E. Berliner. 1,472,148; Oct. 30.
Hood fastener. J. B. Covi. 1,472,242; Oct. 30.
Hoof holder. G. W. Jones. 1,472,527; Oct. 30.
Hopper. W. B. Runk. 1,472,495; Oct. 30.

Hose reel. I. A. Crocker. 1,472,737; Oct. 30.
Household appliance. F. M. Davis. 1,472,051; Oct. 30.
Humidifier. W. Boss. 1,472,150; Oct. 30.
Humidor. H. M. Kreh. 1,472,478; Oct. 30.
Hydraulic engine. R. E. Newcomb. 1,472,421; Oct. 30.
Hydrocarbons from water, Separating. W. A. Brown. 1,472,384–5; Oct. 30.
Hydrogenating unsaturated compounds, Method of and apparatus for. C. M. Page. 1,472,281; Oct. 30.
Ice-cream dipper. W. R. Ripley. 1,472,533; Oct. 30.
Indicator: *See*—
Automobile signal indicator.
Indicator. A. Poirier. 1,472,193; Oct. 30.
Ingot and like mold. E. Walton. 1,472,200; Oct. 30.
Ingot-mold bottom plate. R. S. Poister. 1,472,493; Oct. 30
Injector. R. D. and J. C. Metcalfe. 1,472,337; Oct. 30.
Ink cartridge. B. B. Goldsmith. 1,472,063–5; Oct. 30.
Ink cartridge, Permanent. B. B. Goldsmith. 1,472,067; Oct. 30.
Ink container. B. B. Goldsmith. 1,472,066; Oct. 30.
Internal-combustion engine. A. P. Brush. 1,472,426; Oct. 30.
Internal-combustion engine. E. R. Burtnett. 1,472,549; Oct. 30.
Iron: *See*—
Electric iron. Soldering iron.
Iron from its ores, Obtaining purified. A. J. Moxham. 1,472,131; Oct. 30.
Ironing and steaming device. F. B. Rae. 1,472,089; Oct. 30.
Jack: *See*—
Multiple purchase jack. Screw jack.
Power jack.
Jack. E. Whalley. 1,472,538; Oct. 30.
Jack for dead-end insulators. T. F. Johnson, jr. 1,472,176; Oct. 30.
Jars, Sealing top for fruit. C. H. Longman. 1,472,398; Oct. 30.
Joint: *See*—
Metal joint. Rail joint.
Junk in wells, Fishing tool for. D. L. Gilstrap. 1,472,213; Oct. 30.
Kerosene-gas burner. J. A. Luedecke. 1,472,605; Oct. 30.
Kettle top. A. J. Turner. 1,472,313; Oct. 30.
Keys, tools, and other portable articles, Lock and indicator for holding and locating. E. A. Falconer. 1,472,297; Oct. 30.
Ladle-turning mechanism, Motor-driven. J. S. Townsend. 1,472,286; Oct. 30.
Lamp, Lantern. A. J. D. Ohm. Des. 63,164; Oct. 30.
Lamp pedestal and stand, Combined. G. Häfele. Des. 63,163; Oct. 30.
Lamp shade. E. H. Strauss. 1,472,502; Oct. 30.
Lamp shade and stand, Combined. J. F. Kohler. Des. 63,184–6; Oct. 30.
Lamp shade, Mounting. S. R. Schwartz and A. Bostroem. 1,472,486; Oct. 30.
Lantern. R. T. Toensfeldt. Des. 63,205; Oct. 30.
Lapping-machine tool. W. J. Alles and S. C. Probert. 1,472,422; Oct. 30.
Lasting machine A. Bates. 1,472,039; Oct. 30.
Latch, Dump-car-door. H. S. Hart. 1,472,416; Oct. 30.
Latch spindle. H. S. Lockwood. 1,472,481; Oct. 30
Lathe, Backing-off. J. Dickescheid. 1,472,636; Oct. 30.
Lathe, Vertical. W. E. Ward. 1,472,105; Oct. 30.
Lawn trimmer J. W. Crowder. 1,472,587; Oct. 30.
Leaf spring. E. J. Harvey. 1,472,754; Oct. 30.
Leather and the like, Adjustable clamp for the edges of. J. M. Schwartz. 1,472,618; Oct. 30.
Leather and the like, Clamp for stretching. J. M. Schwartz. 1,472,617; Oct. 30.
Leather beveling and splitting machine. F. W. Simon. 1,472,094; Oct. 30.
Lens blanks on blank holders, Device for positioning. T. B. Drescher. 1,472,748; Oct. 30.
Lens, Eyeglass. F. G. Murphy. Des. 63,193; Oct. 30.
Lens-holding device for face shields. G. A. Peterson. 1,472,134; Oct. 30.
Life-saving device. S. A. Pascales. 1,472,084; Oct. 30.
Light: *See*—
Flash light.
Lighting fixture. A. D. Curtis. 1,472,050; Oct. 30.
Lighting-fixture arm. A. Miller. Des. 63,191; Oct. 30.
Lighting-fixture globe. F. W. Gehrke. Des. 63,172; Oct. 30.
Lighting fixtures, Ball lamp cover for. H. T. Howell. Des. 63,177; Oct. 30.
Lighting fixtures, Candle cup for. H. T. Howell. Des. 63,175; Oct. 30.
Lighting fixtures, Socket cover for. H. T. Howell. Des. 63,176; Oct. 30.
Lighting unit, Indirect. W. A. Dorey. 1,472,639; Oct. 30.
Limit gauge. O. Schlaupitz. 1,472,196; Oct. 30.
Line, Artificial. H. J. Vennes. 1,472,507; Oct. 30.
Line connector and adjuster. G. C. Whittles. 1,472,621; Oct. 30.
Lint cotton, Tramper for. M. C. Kirkpatrick. 1,472,274; Oct. 30.
Liquid or plastic materials, Device for dispensing. W. W. Heinitsh, I. C. Shalkop, and A. B. Lauterbach. 1,472,123; Oct. 30.
Liquid-pumping apparatus. F. H. Griffiths and H. F. Benson. 1,472,560; Oct. 30.
Liquid-storage receptacle for a circulating system, Auxiliary. A. B. Modine. 1,472,305; Oct. 30.
Liquids, Nebulizer of. A. W. Morse. 1,472,486; Oct. 30.
Lock: *See*—
Automobile gear lock. Chain lock.
Car-door lock. Combination lock.
Lock. A. Boge. 1,472,043; Oct. 30.
Lock. M. Grabarek. 1,472,648; Oct. 30.
Locomotive ash pan. F. A. Mayer. 1,472,659; Oct. 30.
Locomotives, Driving connection for. G. H. F. Holy. 1,472,173; Oct. 30.
Log handles, Friction device for. J. M. McLaughlin. 1,472,726; Oct. 30.
Looms, Shuttle-check means for. H. I. Emmons. 1,472,296; Oct. 30.
Looms, Tube feeding chain mechanism for Axminster. E. E. Clark. 1,472,459; Oct. 30.
Looms, Warp stop motion for. I. Snow. 1,472,500; Oct. 30.
Magnetic coil. H. N. Bowman. 1,472,631; Oct. 30.
Magnetos, Actuating mechanism for. P. Brown. 1,472,545; Oct. 30.
Magnetos, Trip finger for. P. Brown and I. E. Hendrickson. 1,472,546; Oct. 30.
Mail crane. J. Z. Mast. 1,472,732; Oct. 30.
Mailing form, Combination. E. P. Shurick. 1,472,142; Oct. 30.
Manifold and preheater. O. H. Cloyd. 1,472,326; Oct. 30.
Mat: *See*—
Table mat.
Measuring and dispensing machine. W. A. Barrows. 1,472,112; Oct. 30.
Measuring apparatus. E. A. Keeler. 1,472,125; Oct. 30.
Measuring device. M. A. Sweet and M. D. Fernan. 1,472,284; Oct 30.
Measuring instrument, Electrical. H. B. Taylor. 1,472,198; Oct. 30.
Meat-extractlike preparation from fish flesh, Production of a preserved. P. Hildebrandt. 1,472,332; Oct. 30.
Mechanical movement. W. C. Read. 1,472,090; Oct. 30.
Metal, Expanded. H. M. Naugle and A. J. Townsend. 1,472,774; Oct 30.
Metal frame, Adjustable. S. T. Helgeson. 1,472,069; Oct. 30.
Metal joint. R. T. Gillette and J. L. Butterfield. 1,472,518; Oct 30.
Metal manufacture, Expanded-. H. M. Naugle and A. J. Townsend. 1,472,769; Oct. 30.
Metal manufacture, Expanded-. H. M. Naugle and A. J. Townsend. 1,472,773; Oct. 30.
Metal solutions, Treating. L. F. Clark. 1,472,115; Oct. 30.
Metal-working machine. S. A. Asquith. 1,472,034; Oct. 30.
Metals and making same, Coating composition for. W. H. Buell. 1,472,239; Oct. 30.
Milking machine. F. A. Gessler. 1,472,467; Oct. 30.
Mining machines, Cutter chain for. T. E. Pray. 1,472,736; Oct. 30.
Mirrors and other articles, Adjustable bracket for. J. R. Oishei. 1,472,566; Oct. 30.
Mixer. J. O. H. Cazenove. 1,472,292; Oct. 30.
Moist heater. O. W. Scurlock and L. A. Gilbreath. 1,472,569; Oct. 30.
Mold: *See*—
Confection mold.
Molding flask. G. A. Glenn. 1,472,646; Oct. 30.
Motor: *See*—
Commutator motor.
Motors, Locking device for independent rotation. L. C. Bayles and F. M. Slater. 1,472,382; Oct. 30.
Muffler cut-out. W. H. Cryan. 1,472,514; Oct. 30.
Multiple purchase jack. J. Dronsfield. 1,472,357; Oct. 30.
Nail strings, Method and apparatus for producing. J. A. Brogan. 1,472,044; Oct. 30.
Nozzle, Sprinkler. L. Overbaugh. 1,472,669; Oct. 30.
Number-indicating system. E. H. Clark. 1,472,458; Oct. 30.
Nursery chair. H. S. Burns. 1,472,323; Oct. 30.
Oil, Distilling. H. L. Doherty. 1,472,116; Oct. 30.
Oil-distributing device. O. Hajek. 1,472,753; Oct. 30.
Oil-service standpipe. L. B. Graham. 1,472,413; Oct. 30.
Oil, turpentine, and resinous products from wood, Extracting pine. T. J. Fairley and T. M. Du Bose. 1,472,118; Oct. 30.
Oils, resinous substances, etc., Treating vegetable matter for the production or extraction of. T. J. Fairley. 1,472,119; Oct. 30.
Ore, Apparatus for concentrating. A. H. Penfield. 1,472,670; Oct. 30.
Ovens, Heat regulator for. H. S. Splithoff. 1,472,693; Oct. 30.
Oyster opener. P. C. Lofland. 1,472,179; Oct. 30.
Package for wall paper, etc. C. Gallistel. 1,472,211; Oct. 30.
Package, Lacing. A. G. Titus. 1,472,443; Oct. 30.
Packing case or box structure. E. S. Daniels. 1,472,635; Oct. 30.
Packing rings, Making. C. H. Butler and H. H. Jones. 1,472,744; Oct. 30.
Pail, Dinner. W. S. Nelson. 1,472,667; Oct. 30.
Pan: *See*—
Locomotive ash pan.
Pan-greasing machine. G. L. Gay. 1,472,163; Oct. 30.

Paper containers, Manufacture of. M. M. Schwer. 1,472,440; Oct. 30.
Paper-cup dispenser. H. Carle. 1,472,584; Oct. 30.
Paper, Means and method for drying printed. J. C. Yetter. 1,472,450; Oct. 30.
Paper, Method and machine for making. J. D. Tompkins. 1,472,572; Oct. 30.
Paper pulp stock to insure uniform consistency, Treating. G. P. Berkey. 1,472,238; Oct. 30.
Papering machine, Wall. J. V. Pizzino. 1,472,735; Oct. 30.
Paving material. W. T. Headley. 1,472,393; Oct. 30.
Pen, Fountain. W. H. Averill. 1,472,576; Oct. 30.
Percolator and electric heating attachment for the same. A. Ward. 1,472,704; Oct. 30.
Petroleum treating apparatus. J. W. Lewis. 1,472,075; Oct. 30.
Phonograph cabinet. N. Krasner. Des. 63,187; Oct. 30.
Phonograph cabinet. S. Roth and C. F. Romadka. Des. 63,197; Oct. 30.
Photographic films, Hardening of. J. H. Christensen. 1,472,048; Oct. 30.
Photoprinting mask. G. M. Dye. 1,472,640; Oct. 30.
Picker: *See*—
Corn picker.
Picture machine, Motion-. A. C. Macbeth. 1,472,608; Oct. 30.
Picture machines, Automatic loop setter for motion-. F. Bonk, jr. 1,472,628; Oct. 30.
Piety, religious devotion, and high idealistic sentiments, Device for the promotion of. J. I. Comber. 1,472,746; Oct. 30.
Pin and like securing device. L. J. Roy. 1,472,681; Oct. 30.
Pin extracting and replacing tool. W. H. Winchler. 1,472,349; Oct. 30.
Pipe coupling, Air-tight. J. R. Brown. 1,472,290; Oct. 30.
Pipe wrench, Inside. W. A. Ellison. 1,472,464; Oct. 30.
Pipes, Lapping metal. O. M. Carlson. 1,472,047; Oct. 30.
Pipes, Manufacturing ribbed. K. Winkelmüller. 1,472,146; Oct. 30.
Pipes, Means for flanging soft-metal. P. Mueller and A. C. Schuermann. 1,472,278; Oct. 30.
Piston and cylinder surfaces, Treating. G. W. Donnelly. 1,472,295; Oct. 30.
Piston ring. J. M. La Course. 1,472,073; Oct. 30.
Plow. J. E. McNeil. 1,472,728; Oct. 30.
Plows, Power lift for. J. Boda. 1,472,627; Oct. 30.
Plow, Wheeled. H. S. Dickinson. 1,472,637; Oct. 30.
Plow, Wheeled. H. S. Dickinson. 1,472,768; Oct. 30.
Plug and valve, Combined filler. H. D. Fleming, L. F. Matthews, and E. C. Fleming. 1,472,643; Oct. 30.
Pocketbook. E. McGibbon. 1,472,303; Oct. 30.
Posts, Mold for concrete. N. F. and C. L. Howard. 1,472,596; Oct. 30.
Pot: *See*—
Solder pot.
Potato digger. J. R. Jannelle. 1,472,300; Oct. 30.
Pottery, etc., Truck for drying. T. H. Rhoads. 1,472,676; Oct. 30.
Powdered material or the like, Receptacle for holding. A. Lindenmayer. 1,472,658; Oct. 30.
Power and transmission unit, Combined. C. A. Baer. 1,472,624; Oct. 30.
Power jack, Kinetic. F. D. Hoffman and M. A. Rutenber. 1,472,362; Oct. 30.
Press: *See*—
Extrusion press.
Pressure regulating and governing apparatus, Combined. J. P. Metzger. 1,472,662; Oct. 30.
Printing device. P. O. Moffett. 1,472,307; Oct. 30.
Printing plates, Means for cooling photomechanical. G. H. Benedict. 1,472,454; Oct. 30.
Printing-press form and vibrator rollers, Mounting for. E. F. Dudley. 1,472,433; Oct. 30.
Printing-press tripping appliance. B. D. Stevens. 1,472,442; Oct. 30.
Printing presses, Counting attachment for. J. D. Hunt. 1,472,653; Oct. 30.
Printing presses, Pneumatic feeding device for. A. and E. Kluge. 1,472,656; Oct. 30.
Propeller safety clutch. A. L. Lockwood. 1,472,077; Oct. 30.
Puller: *See*—
Steel puller.
Puller machines, Presser roller for. J. R. Moffatt. 1,472,277; Oct. 30.
Pulley, Sash. R. H. Bowen. 1,472,765; Oct. 30.
Pulley, Split. A. Villeneuve. 1,472,145; Oct. 30.
Pulp thickener, Slime-. C. Allen. 1,472,317; Oct. 30.
Pulverizing machine. S. C. Martin. 1,472,609; Oct. 30.
Pump. A. F. Froussard. 1,472,062; Oct. 30.
Pump. J. W. Gurley. 1,472,414; Oct. 30.
Pump. P. E. Vaughan. 1,472,104; Oct. 30.
Pump mechanism. P. Ostenberg. 1,472,338; Oct. 30.
Pump, Power. G. C. Myers. 1,472,226; Oct. 30.
Racket, Tennis. W. T. Aldrich. 1,472,202; Oct. 30.
Radiator. M. I. Faillier. 1,472,158; Oct. 30.
Radiator. A. B. Modine. 1,472,306; Oct. 30.
Radiator cover. R. F. Hoffman. 1,472,650; Oct. 30.
Radiator, Electrosteam. F. M. Davis. 1,472,052; Oct. 30.
Radiator tubes, Machine for making. G. Horvath. 1,472,719; Oct. 30.
Radio wire connecting circuits. R. Bown and E. L. Nelson. 1,472,289; Oct. 30.
Rail joint. E. L. Ellis. 1,472,157; Oct. 30.
Rail joint. S. McFarland. 1,472,606; Oct. 30.
Railway and similar vehicles, Automatic coupling for. G. J. Coles. 1,472,241; Oct. 30.
Railway crosstie, Metallic. J. A. Hyle. 1,472,526; Oct. 30.
Railway-rail brace. J. G. Mueller. 1,472,225; Oct. 30.
Reamer. A. McCracken. 1,472,182; Oct. 30.
Reel: *See*—
Fishing-line reel. Wind reel.
Hose reel.
Refrigerating apparatus. L. C. Copeman. 1,472,266–7; Oct. 30.
Refrigerating machine. R. W. Davenport. 1,472,432; Oct. 30.
Refrigerators, Container support for. C. W. Wenke and C. A. Ketterer. 1,472,106; Oct. 30.
Respiratory apparatus. A. B. Dräger. 1,472,117; Oct. 30.
Rim tool. J. C. Theberath. 1,472,571; Oct. 30.
Ring: *See*—
Piston ring.
Rock drills, Automatic air-feed and rotation-motor control for. L. C. Bayles. 1,472,040; Oct. 30.
Rollers and other articles, Apparatus for gauging. L. M. Ellis. 1,472,589; Oct. 30.
Rolling machine. A. Eppler. 1,472,058; Oct. 30.
Roofing, Method of and apparatus for making ornamental. F. C. Overbury. 1,472,227; Oct. 30.
Rubber articles, Means for shaping. G. S. Stringfield. 1,472,256; Oct. 30.
Rubber goods, Mold for. T. Davis. 1,472,053; Oct. 30.
Sack lifting and other purposes, Sling or grip for. A. Claydon. 1,472,325; Oct. 30.
Safety device, Electrically-controlled power-cut-out. G. Galpin and D. H. Baer. 1,472,212; Oct. 30.
Sales-slip holder. J. F. Fulfs. 1,472,559; Oct. 30.
Sanitary waste receptacle. T. Welsz. 1,472,707; Oct. 30.
Scale. H. B. Bagg. 1,472,037; Oct. 30.
Scale. B. W. King. 1,472,761; Oct. 30.
Scooter. Wheeled vehicle known as. A. M. Greene. 1,472,216; Oct. 30.
Screen: *See*—
Spotlight color screen.
Screening device. C. J. Sandoe. 1,472,439; Oct. 30.
Screw-cutting machine. W. H. Young. 1,472,623; Oct. 30.
Screw jack. R. C. Finch. 1,472,388; Oct. 30.
Scribers and compasses, Pocket. E. W. Louden. 1,472,181; Oct. 30.
Seal, Reenforced. O. M. Bangs. 1,472,381; Oct. 30.
Separator: *See*—
Cream separator.
Server, Rotating. W. R. Whittemore. 1,472,348; Oct. 30.
Setwork. W. T. Alfrey. 1,472,111; Oct. 30.
Sewing machine, Electrically-driven. C. W. H'Doubler. 1,472,588; Oct. 30.
Shade rollers, Attachment for window-. T. X. Jones. 1,472,221; Oct. 30.
Shades, Automatic control for window. R. Walser. 1,472,703; Oct. 30.
Sharpener, Scissors. T. J. Jones. 1,472,760; Oct. 30.
Sharpening machine, Pencil-. A. Dandrieux. 1,472,557; Oct. 30.
Shear and notcher, Combined angle. E. J. Dreis. 1,472,329; Oct. 30.
Sheet-metal hanger. E. H. Abara. 1,472,236; Oct. 30.
Shelf. C. C. Meixell. 1,472,129; Oct. 30.
Sheller: *See*—
Corn sheller.
Shingle. N. P. Harshberger. 1,472,270; Oct. 30.
Shock absorber. P. S. Morgan. 1,472,420; Oct. 30.
Shoe, Athletic. F. Haggerty. 1,472,415; Oct. 30.
Shoe bottoms, Making. E. E. Winkley. 1,472,109; Oct. 30.
Shoe-polish container. F. P. Budd. 1,472,632; Oct. 30.
Shoe-shining shops, Arrangement and equipment for. H. L. Markland. 1,472,079; Oct. 30.
Shoe-tongue clip. E. R. Gingrich. 1,472,519; Oct. 30.
Shuttle-throwing device. J. D. Watson. 1,472,260; Oct. 30.
Shuttle, Weaving. A. Klerx. 1,472,720; Oct. 30.
Sifter, Flour. J. Brewer. 1,472,204; Oct. 30.
Sign, Advertising. H. C. Jarvis. Des. 63,183; Oct. 30.
Signal: *See*—
Automobile signal. Direction signal.
Signaling circuits, Phantomed. M. K. Akers. 1,472,451; Oct. 30.
Signaling system, Multiplex. E. H. Colpitts. 1,472,585; Oct. 30.
Siphon booster. C. H. Case and W. C. Farrar. 1,472,428; Oct. 30.
Sled. S. Zukowski 1,472,711; Oct. 30.
Sled, Hand-propelled. S. Tirrith. 1,472,699; Oct. 30.
Slicing device, Article-. O. N. Hoffman. 1,472,219; Oct. 30.
Smoker's set, Combination. B. M. Bernard. 1,472,149; Oct. 30.
Soap and manufacturing the same, Finely-divided. J. C. Ingram. 1,472,473; Oct. 30.
Soap dispenser, Liquid-. P. H. Stapley. 1,472,695; Oct. 30.

Soap powder, Making. J. C. Ingram. 1,472,472; Oct. 30.
Socket, Collapsible. C. H. Brown. 1,472,714; Oct. 30.
Solder pot, Electrically-heated. J. D. Haynsworth. 1,472,170; Oct. 30.
Soldering iron. A. M. MacFarland. 1,472,183; Oct. 30.
Soldering iron, Gas-heated. V. B. Pike. 1,472,087; Oct. 30.
Soldering irons, Reheating device for. J. E. Mallvert. 1,472,729; Oct. 30.
Sorting machine. E. Nordstrom. 1,472,279; Oct. 30.
Sound-reproducing instrument, Automatic. S. A. Blair. 1,472,743; Oct 30.
Spindle: *See*—
Latch spindle.
Spoon or similar article. G. N. Allen. Des. 63,166; Oct. 30.
Spoon or similar article H. Hillbom. Des. 63,174; Oct. 30.
Spoon or similar article. A. H. Staf. Des. 63,204; Oct. 30.
Spotlight color screen. G. E. Stephenson. 1,472,095; Oct. 30.
Spotlight mounting. R. H. Bitter. 1,472,509; Oct. 30.
Spray coil. I. E. Colvin. 1,472,586; Oct. 30.
Spring: *See*—
Leaf spring. Vehicle spring.
Spring covers, Metal casing for leaf-. A. R. Goldrick. 1,472,468; Oct. 30.
Spring mounting for cushion connections. A. F. Masury and A. H. Leipert. 1,472,372; Oct. 30.
Sprinkler-head-testing device. A. L. Abbott. 1,472,235; Oct. 30.
Spur-hobbing machine, Simplified. W. F. Zimmermann. 1,472,767; Oct. 30.
Stanchions, Aligument device for cow. E. L. Johnson. 1,472,175; Oct. 30.
Stamp, Marking. F. E. Smith. 1,472,282; Oct. 30.
Stand: *See*—
Barrel stand.
Stay-bolt structure. E. I. Dodds. 1,472,387; Oct. 30.
Stay-bolt structure. J. R. Flannery and E. I. Dodds. 1,472,389; Oct. 30.
Stay bolts, Making. J. R. Flannery. 1,472,390; Oct. 30.
Steam and hot-water boiler, Electric. N. R. Forsblad. Re15,710; Oct. 30.
Steam boiler. A. L. Brueggeman. 1,472,045; Oct. 30.
Steam boiler. D. S. Jacobus. 1,472,474; Oct. 30.
Steel-joist machine. H. M. Naugle and A. J. Townsend. 1,472,771; Oct. 30.
Steel-joist manufacture. H. M. Naugle and A. J. Townsend. 1,472,770; Oct. 30.
Steel-joist manufacture. H. M. Naugle and A. J. Townsend. 1,472,772; Oct. 30.
Steel puller. W. Hoskin. 1,472,524; Oct. 30.
Steering wheels, Cushion grip for. W. C. Skiles. 1,472,689; Oct. 30.
Stock-cutting machine. E. E. Winkley. 1,472,108; Oct. 30.
Stockings, socks, or the like to suspenders, Means for attaching. H. Dahms. 1,472,327; Oct. 30.
Stoker, Automatic. A. Ousdahl. 1,472,280; Oct. 30.
Stokers, Fuel hopper for automatic. J. D. Campbell. 1,472,427; Oct. 30.
Storm shield. J. Bauer. 1,472,287; Oct. 30.
Stove. M. Klein. 1,472,178; Oct. 30.
Stove and humidifier, Combined. G. A. Kreutzer and K. L. Long. 1,472,396; Oct. 30.
Stove, Camp. J. A. Oliver. 1,472,668; Oct. 30.
Stove leg. R. Hoffman. 1,472,418; Oct. 30.
Submarine signals, Directional receiving of. R. A. Fessenden, R. L. Williams, and E. C. Wood. 1,472,558; Oct. 30.
Sugar-packing machine, Lump-. G. Iacobitti. 1,472,395; Oct. 30.
Suitcase, bag, or similar article. M. and H. W. Axelman. Des. 63,167; Oct. 30.
Support. H. J. Sévigny. 1,472,688; Oct. 30.
Suprarenin and preparing the same, Derivatives of. C. Funk and L. Freedman. 1,472,298; Oct. 30.
Swing. H. F. Belk. 1,472,578; Oct. 30.
Switch: *See*—
Automatic switch.
Switch and burglar alarm, Combination. F. L. Krisznar. 1,472,072; Oct. 30.
Switch point. J. J. Ronders. 1,472,140; Oct. 30.
Switch point, Safety. L. M. Wentling. 1,472,708; Oct. 30.
Switches, Service box for. A. Brill. 1,472,152; Oct. 30.
Switching device. J. B. MacNeill. 1,472,184; Oct. 30.
Switching device. H. B. Taylor. 1,472,503; Oct. 30.
Table: *See*—
Cabinet table. Folding table.
Table. J. Peterson. Des. 63,194; Oct. 30.
Table mat. C. Laidman. Re15,708; Oct. 30.
Tack, Clamp thumb. J. W. Hope. 1,472,471; Oct. 30.
Tags, cards, etc., Mechanism for feeding. H. C. Gammeter. 1,472,466; Oct. 30.
Tank vehicle. C. V. Lucius. 1,472,078; Oct. 30.
Taximeter, Alarm. J. A. Gato. 1,472,162; Oct. 30.
Telegraph repeating system. A. J. Eaves. 1,472,463; Oct. 30.
Telegraph system. R. C. Mathes. 1,472,483; Oct. 30.
Telegraph system. C. O. Van der Vort. 1,472,506; Oct. 30.
Telegraphy, Printing. J. H. Bell. 1,472,453; Oct. 30.
Telephone attachment. J. McComas. 1,472,530; Oct. 30.
Telephone-exchange system. C. L. Goodrum. 1,472,469; Oct. 30.
Telephone-exchange system, Machine-switching. R. L. Stokely. 1,472,501; Oct. 30.
Telephone receiving, Reed. G. W. Pickard. 1,472,341; Oct. 30.
Telephone system. H. P. Clausen and C. L. Goodrum. 1,472,460; Oct. 30.
Telephone system. J. B. Morrill. 1,472,485; Oct. 30.
Telephone system. C. Sparks. 1,472,254; Oct. 30.
Telephone system, Automatic. T. Lenaghan. 1,472,604; Oct. 30.
Telephone system, Two-wire party-line lockout. T. G. Martin. Re15,706; Oct. 30.
Telephone transmission system. W. H. Bendernagel. 1,472,237; Oct. 30.
Tentering machines, Feeder for. H. A. Smart and W. H. H. Cocke, jr. 1,472,499; Oct. 30.
Textile fabric. W. Muelberger. Des. 63,192; Oct. 30.
Thermostatic mechanism. S. McClure. 1,472,725; Oct. 30.
Throttle heater. P. Daniel. 1,472,246; Oct. 30.
Tie: *See*—
Construction tie.
Timepiece hand. L. M. Williams. Des. 63,210–11; Oct. 30.
Timer. H. G. Lorenson. 1,472,180; Oct. 30.
Tire carrier and rim tool, Combined. J. J. Miller. 1,472,130; Oct. 30.
Tire for wheels of road vehicles. W. C. Bilham. 1,472,383; Oct. 30.
Tire-handling device. G. F. Dallas. 1,472,556; Oct. 30.
Tire-valve tester. H. G. Aitz and F. F. Fearheiley. 1,472,712; Oct. 30.
Tire valves and the like, Dust cap for. A. Fessler. 1,472,160; Oct. 30.
Tire-wrapping machine. J. Scherner. 1,472,764; Oct. 30.
Tires and making same, Inner tube for pneumatic. J. F. Palmer. 1,472,435; Oct. 30.
Tires, Manufacturing inner tubes for vehicle. A. E. Henderson. 1,472,756; Oct. 30.
Tires, Sun-sheltering cover for pneumatic. H. C. E. Anderson. 1,472,633; Oct. 30.
Tomato-peeling machines, Scalding apparatus for. A. I. Du Pont and H. R. Harding. 1,472,717; Oct. 30.
Tool box. A. W. Vogelaar. 1,472,701; Oct. 30.
Tool, Demountable-rim. J. B. Stroud. 1,472,777; Oct. 30.
Tool retainer. P. Schelb. 1,472,496; Oct. 30.
Tooth construction. U. M. Richardson. 1,472,678; Oct. 30.
Tooth and preparing the same. U. M. Richardson. 1,472,677; Oct. 30.
Toy pistol. L. G. Brinkman. 1,472,153; Oct. 30.
Toy vehicle. A. C. Gilbert. 1,472,164; Oct. 30.
Toy, Wheeled. J. Shubert. 1,472,498; Oct. 30.
Tractor. H. Quinby. 1,472,136; Oct. 30.
Tractor, Endless-belt. A. M. Chase. 1,472,431; Oct. 30.
Tractors, Saw attachment for. V. L. Holt. 1,472,394; Oct. 30.
Transmission and receiving system. J. H. Hammond, jr. 1,472,218; Oct. 30.
Transmission channels, Means for signaling over multiplex. H. A. Affel. 1,472,035; Oct. 30.
Transmission circuits. R. C. Mathes. 1,472,610; Oct. 30.
Transmission mechanism. T. J. McCloskey. 1,472,724; Oct. 30.
Trap: *See*—
Animal trap. Waste trap.
Beaver trap. Water trap.
Traps, Testing and safety device for. T. L. Munroe. 1,472,666; Oct. 30.
Tray handle. L. M. Schnitzer, L. Garroway, and N. Gelfman. Des. 63,201; Oct. 30.
Tree: *See*—
Artificial tree.
Trenching machine. T. Loken. 1,472,563; Oct. 30.
Trimmer: *See*—
Hedge trimmer.
Trocar. W. B. Wescott. 1,472,377–8; Oct. 30.
Truck, Freight-handling. E. B. Grace and W. J. Laffey. 1,472,649; Oct. 30.
Trunks, Clothes-hanger support for wardrobe. T. M. House. 1,472,525; Oct. 30.
Tube cleaners, Cutter head for. H. L. Staley. 1,472,255; Oct. 30.
Turbine blading. A. T. Kasley. 1,472,070; Oct. 30.
Turnip-gathering device. V. O. Deyt. 1,472,328; Oct. 30.
Umbrellas, parasols, etc., Identification means for. D. Hirsch. Re15,712; Oct. 30.
Underfeed furnace, Side-dump. A. H. Blackburn and F. E. Fleming. 1,472,579; Oct. 30.
Undergarment, Woman's fitted. D. H. and D. C. Warner. 1,472,447; Oct. 30.
Unloading machine. R. Z. Drake. 1,472,054; Oct. 30.
Valve and casing, Engine. C. C. Hughes and R. O. Betterly. 1,472,652; Oct. 30.
Valve, Flush. R. Nichols and T. L. Titus. 1,472,191; Oct. 30.
Valve for tank cars, Outlet. E. L. Chatfield. 1,472,293; Oct. 30.

Valve lifter for internal-combustion motors. H. B. Cartlidge. 1,472,354; Oct. 30.
Valve mechanism for internal-combustion engines. E. R. Burtnett. 1,472,548; Oct. 30.
Valve, Rotary. E. M. Bournonville. 1,472,113; Oct. 30.
Valve, Signal. F. N. Kelsey. 1,472,366; Oct. 30.
Valve, Water-control. J. C. Goosmann. 1,472,412; Oct. 30.
Valve, Working. V. R. Kill and O. J. Gaster. 1,472,528; Oct. 30.
Vehicle body construction. J. McGlashan. 1,472,607; Oct. 30.
Vehicle body construction. C. M. Manly and J. McGlashan. 1,472,128; Oct. 30.
Vehicle brake. H. Vanderbeek. 1,472,444; Oct. 30.
Vehicle, Child's. C. J. Mettler. 1,472,611; Oct. 30.
Vehicle, Child's. A. W. Stuart and J. W. O'Connor. 1,472,375; Oct. 30.
Vehicle construction, Cushion connection for. A. F. Masury and A. H. Leipert. 1,472,371; Oct. 30.
Vehicle spring. G. R. Sahlstrom. 1,472,682; Oct. 30.
Vehicle wheels, Traction appliance for. S. E. Broomall. 1,472,511; Oct. 30.
Vehicles, Direction indicator for motor. C. E. Morris. 1,472,186; Oct. 30.
Vehicles, Spring construction for. R. M. Lovejoy. 1,472,482; Oct. 30.
Vehicles, Water pump for motor. J. L. Dabadie. 1,472,243; Oct. 30.
Vehicles, Wheel for road. C. Green. 1,472,593–4; Oct. 30.
Ventilator: *See*—
Window ventilator.
Violet-ray generators, Casing for. W. G. Shelton. Des. 63,203; Oct. 30.
Vulcanizing apparatus. E. A. Mollenhauer. 1,472,185; Oct. 30.
Wagon, Dumping. H. Mayer, G. Schlatter, and P. Boeckly. 1,472,484; Oct. 30.
Wall and constructing it, Composite. W. L. Evans, jr. 1,472,642; Oct. 30.
Wall hanger. J. Lally. 1,472,601; Oct. 30.
Washboard. J. G. Thorstensen. 1,472,537; Oct. 30.
Washing-machine cylinder. G. A. Oberg. 1,472,434; Oct. 30.
Waste trap. J. Kendzierski. 1,472,476; Oct. 30.
Watch. L. Albanese. 1,472,350; Oct. 30.
Water fountain. J. R. Blaine. 1,472,626; Oct. 30.
Water heater, Electric. E. E. Sutherland. 1,472,197; Oct. 30.
Water trap, Return. W. I. Staaf. 1,472,232; Oct. 30.
Waterproof garment. W. L. Fry. 1,472,330; Oct. 30.
Weeder. G. W. Fairbourn. 1,472,749; Oct. 30.
Weight, Cattle-horn. A. A. Courtney. 1,472,207; Oct. 30.
Welding electrode holder. J. Britt. 1,472,581; Oct. 30.
Well apparatus, Oil-. H. T. Smith. 1,472,283; Oct. 30.
Well, Oil or gas. E. V. Crowell. 1,472,555; Oct. 30.
Well swab, Oil. E. T. Murray. 1,472,487; Oct. 30.
Wheel: *See*—
Automobile wheel. Gear wheel.
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Wheel attachment. J. Kershaw. 1,472,655; Oct. 30.
Wheel construction. E. C. Westerfield. 1,472,404; Oct. 30.
Wind reel, Level. W. Schmid. 1,472,684; Oct. 30.
Window cleaner. H. Newman. 1,472,190; Oct. 30.
Window ventilator. J. Dykema. 1,472,056; Oct. 30.
Windows from the inside, Appliance for cleaning. H. M. Chiron. 1,472,240; Oct. 30.
Windshield, Auxiliary. G. W. Dover. 1,472,356; Oct. 30.
Windshield cleaner. F. G. and W. M. Folberth. 1,472,644; Oct. 30.
Windshields, Combined cleaner, rain deflector, and light guard for. L. J. Cole and E. C. Hauck. 1,472,553; Oct. 30.
Wire-bending machine. A. W. Beere. 1,472,543; Oct. 30.
Wire stretcher. J. Grimme. 1,472,167; Oct. 30.
Wire-tying tool. L. R. Pomeroy. 1,472,763; Oct. 30.
Wire with deformed ends, Tie. A. J. Gerrard and P. Wright. 1,472,299; Oct. 30.
Wireless-telegraphy receiver. H. J. Round. 1,472,092; Oct. 30.
Workstand, Mechanic's. H. E. Patrick, A. J. Peterson, and J. W. Bermes. 1,472,425; Oct. 30.
Wrecking tool. P. H. Fry. 1,472,517; Oct. 30.
Wrench: *See*—
Pipe wrench.
Wrench and pliers, Combination. J. B. Singer. 1,472,312; Oct. 30.
Wringer. W. H. Voss. 1,472,620; Oct. 30.
Yoke, Head. W. R. Baille. 1,472,541; Oct. 30.

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Patents Nos. 1,472,778 to 1,473,602.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

S&D

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Reissues	7—No.	15,713 to No.	15,719, inclusive.
Designs	38—No.	63,212 to No.	63,249, inclusive.
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Total	1315		

Disclaimer.

1,359,400.—*Edwin N. Lightfoot*, New York, N. Y. Electric Heater. Patent dated November 16, 1920. Disclaimer filed October 18, 1923, by the assignee, *The Cutler-Hammer Mfg. Co.*

Hereby enters its disclaimer—

"To so much of claims 1, 2, 3, 4, 5, 15, 16, 18, 21 and 22 of said patent, and each of them, as may cover an electric heater in which the terminal or terminals are not tubular and do not have a portion extending into the end or ends of the tubular metal jacket;

"Thereby limiting said claims 1, 2, 3, 4, 5, 15, 16, 18, 21 and 22 of said patent, and each of them, to an electric heater in which the terminal or terminals are tubular and have a portion extending into the end or ends of the tubular metal jacket;

"To so much of claims 6, 7 and 8, of said patent, and each of them, as may cover an electric heater in which the terminals are not tubular and do not have a portion extending into the ends of the tubular metal jacket and are not secured thereto by the swaging of the jacket;

"Thereby limiting said claims 6, 7 and 8 of said patent, and each of them, to an electric heater in which the terminals are tubular and have a portion extending into the ends of the tubular metal jacket and are secured thereto by the swaging of the jacket;

"To so much of claims 9 and 10 of said patent, and each of them, as may cover an electric heater in which the terminals are not tubular and do not have a portion extending into the ends of the tubular metal jacket and are not secured thereto by the swaging of the jacket and to the resistor by the swaging of the terminals;

6280

"Thereby limiting said claims 9 and 10 of said patent, and each of them, to an electric heater in which the terminals are tubular and have a portion extending into the ends of the tubular metal jacket and are secured thereto by the swaging of the jacket and to the resistor by the swaging of the terminals."

Interference Notices.

U. S. Patent Office, *Washington, Oct. 16, 1923.*

Joseph R. Marquette, his assigns or legal representatives, take notice:

An interference having been declared by this Office between Joannes Bros. Co., 118 South Washington Street, Green Bay, Wis., for registration of a trade-mark and trade-mark registered March 20, 1900, No. 34,332, to Joseph R. Marquette, 120 Front Street, New York, N. Y., and a notice of such declaration sent by registered mail to said Joseph R. Marquette at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Joseph R. Marquette, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

U. S. Patent Office, *Washington, Oct. 5, 1923.*

Albert Ruben & Co., their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Albert I. Straus, Main and North Streets, Lima, Ohio, for registration of a trade-mark and trade-mark registered May 14, 1907, No. 62,596, to Albert Ruben & Co., 709 West North Avenue, Chicago, Ill., and a notice of such declaration sent by registered mail to said Albert Ruben & Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Albert Ruben & Co., their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

U. S. Patent Office, *Washington, Oct. 5, 1923.*

Overseas Products Corporation, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Everett Lawrence & Company, New Orleans, La., for registration of a trade-mark and trade-mark registered June 19, 1917, No. 117,195, to Overseas Products Corporation, 105–109 Hudson Street, New York, N. Y., and a notice of such declaration sent by registered mail to said Overseas Products Corporation at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Overseas Products Corporation, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

Condition of Applications Under Examination at Close of Business October 26, 1923.

(Total number of applications awaiting action, excluding Trade-Mark Division, 73,087; Trade-Mark Division, 3,136. Oldest new case, Dec. 29, 1922; oldest amended, Jan. 2, 1923. The dates given are 1923 except where * indicates 1922.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plant Husbandry; Plows; Planting; Scattering Unloaders.	Feb. 3	Feb. 2	1,323
128	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Feb. 23	Jan. 22	1,370
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Apr. 25	Apr. 4	1,250
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Jan. 18	Mar. 24	1,555
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Jan. 9	Jan. 12	1,541
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Jan. 5	Mar. 19	1,866
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	Feb. 15	Feb. 17	2,732
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Apr. 4	May 14	1,787
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	Feb. 16	Sept. 13	854
235	10. BARTHOLOMEW, J. A., Motor Vehicles; Land Vehicles—Animal Draft Appliances, Bodies and Tops, Dumping, Wheel Substitutes.	Jan. 13	May 7	1,528
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skin, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Apr. 30	Mar. 29	913
322	12. PIERCE, P. P., Machine Elements	Feb. 16	Feb. 9	1,409
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	Feb. 15	June 2	1,218
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Jan. 12	Sept. 5	1,056
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Jan. 2	Jan. 5	2,040
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Jan. 22	Jan. 20	2,660
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Association or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Jan. 8	May 9	1,548
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	*Dec. 29	Jan. 2	2,044
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	June 2	July 13	651
179	20. WRIGHT, R., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Dentistry; Locks and Latches; Safes; Undertaking.	Mar. 22	Mar. 3	1,537
212	21. THURBER, W. L., Winding and Reeling; Textiles—Braiding, Netting, or Lace Making, Cloth Finishing, Fiber Preparation, Knitting, Spinning, Twisting or Twining, Weaving.	Jan. 2	July 16	1,020
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Feb. 26	Mar. 20	590
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	Jan. 2	Jan. 10	778
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Jan. 27	Mar. 13	1,256
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Cutlery; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Gas Separation.	May 3	May 2	1,081
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Jan. 10	Jan. 13	1,035
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Jan. 24	Mar. 6	1,424
225	28. BENSON, A. R., Internal-Combustion Engines	Mar. 17	Mar. 20	1,364
147	29. MORRIS, B. N., Abrading; Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Jan. 27	Apr. 11	1,339
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Feb. 17	Aug. 1	1,886
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar, Starch, and Carbohydrates; Concentrating Evaporators.	Jan. 30	Jan. 8	1,680
120	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Jan. 6	Jan. 4	1,361
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	Feb. 2	Jan. 22	1,673
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	Feb. 28	May 1	911
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	May 12	May 3	940
265	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Apr. 3	Mar. 12	2,071
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Feb. 3	Feb. 2	1,882
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Jan. 19	Jan. 5	1,917
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Jan. 11	Jan. 12	1,301
271	40. OBERLIN, J. J., Baggage; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 11	May 24	2,069
125	41. BROWN, J. L., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Feb. 26	Apr. 24	1,022
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Jan. 15	Feb. 7	1,762
382	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Electricity, Medical and Surgical; Fire Extinguishers; Medicines; Sewerage; Surgery; Liquid Separation or Purification.	Feb. 1	Jan. 23	1,879
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	Jan. 31	May 9	1,221
379	45. GILES, A. E., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Mar. 22	Feb. 9	1,622
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Mar. 3	Apr. 9	1,453
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time-Controlling Mechanism.	Jan. 11	Apr. 21	1,235
116	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Jan. 2	Jan. 3	2,432
383	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	Feb. 23	Mar. 10	585
102	DESIGNS: C. O. MARKHAM (Acting)	May 28	July 7	1,376
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. (Trade-Marks	Aug. 1	Sept. 5	2,943
	(Labels and Prints	Oct. 13	Oct. 16	193

DECISIONS IN PATENT AND TRADE-MARK CASES.

Commissioner's Decisions.

PEIRCE *v.* TRIPP *v.* POWERS.

Decided August 21, 1923.

1. PRACTICE IN PATENT OFFICE—INTERLOCUTORY ORDERS.

Where an appeal is not from final hearing, but from an interlocutory order, the general rule of equity appeals does not apply, since even in equity interlocutory appeals do not of necessity require a consideration and examination of the entire case, but may properly be confined to specific matters treated in the interlocutory order. Moreover, Patent Office procedure, although analogous to equity procedure, is not identical therewith.

2. SAME—NO APPEAL FROM HOLDING WHICH AFFIRMS PATENTABILITY OR OPERATIVENESS.

No appeal lies from holding that an applicant is entitled to a claim or from holding that an application shows an operative device.

3. SAME—APPEAL FROM HOLDING THAT CERTAIN DEFECTS RENDER DEVICE INOPERATIVE BUT OTHERS DO NOT—DEFECTS DISTINCT.

The Examiners in Chief were right in refusing to consider whether the alleged defect set out in paragraph (c) of the motion to dissolve makes P.'s device inoperative when the Law Examiner has definitely held that this specific defect does not make the device inoperative, and this notwithstanding the fact that this appeal does clearly and admittedly bring up now for consideration the other alleged defects of P.'s apparatus.

4. SAME—SAME—DEFECTS INTERRELATED.

In a case where the various points raised by a motion are so interlocked as to make their joint consideration essential they may all be considered on appeal, although one point has been favorably acted on by the Law Examiner.

5. OPERATIVENESS—CLAIMED DEVICE ILLUSTRATED AS PART OF A DEVICE WHICH INCLUDES AN INOPERATIVE MECHANISM.

Where the device claimed is illustrated as a part of a device which intends to include totaling mechanism which may be inoperative, *Held* that the structure of the claim itself is not necessarily inoperative, since the claim is directed toward a separate subcombination of mechanism which in and of itself may have utility when employed with other totaling mechanism or with no totaling mechanism, leaving the operator to note the total with a pencil.

6. INTERFERENCE—APPEAL—QUESTION OF OPERATIVENESS DEFERRED UNTIL FINAL HEARING WHERE INTERFERENCE MUST PROCEED AND QUESTION IS DOUBTFUL.

Where some of the counts include the totaling mechanism and count 6 does not, and there is doubt whether P.'s totaling mechanism may be made operative without resorting to invention, *Held* that since the interference must proceed on count 6 it should proceed on all the counts, so that the parties may produce such evidence, to the end that the Patent Office may have before it at final hearing a more complete record from which to determine whether P.'s apparatus is inoperable.

APPEAL from the Examiners in Chief.

DISTRIBUTING MACHINE.

Mr. Adelbert C. Maby for Peirce.

Mr. George B. Schley for Tripp.

Messrs. Fish, Richardson & Neave for Powers.

FENNING, *Assistant Commissioner:*

This is an appeal from the action of the Examiners in Chief affirming the action of the Law Examiner dissolving the interference on the ground that Powers's device is inoperative, as alleged in Tripp's motion to dissolve.

The motion set out three defects in the Powers device. With respect to one of these alleged defects the Law Examiner held that the Powers device was operative. He did dissolve the interference however, on the ground that the device was inoperative in the two other respects referred to in the motion. On appeal the Examiners in Chief refused to allow Tripp to argue that the Law Examiner was in error in holding the Powers device operative in respect to the third ground of the motion, and on this appeal Tripp urges that defect, although there is the affirmative holding of the Law Examiner with respect to that specific point in favor of Powers's operativeness.

[1] It is urged that the Patent Office procedure is analogous to equity procedure and that therefore on appeal the entire case is open for consideration. It is to be noted that the present appeal is not from final hearing, but from an interlocutory order. Therefore the general rule of equity appeals does not apply, since even in equity interlocutory appeals do not of necessity require a consideration and examination of the entire case, but may properly be confined to specific matters treated in the interlocutory order from which appeal is taken. Moreover, Patent Office procedure, although analogous to equity procedure, is not identical therewith.

[2, 3, 4] It is established by excellent reasoning in a long line of decisions that no appeal lies from an affirmative holding that an applicant is entitled to a claim or from an affirmative holding that an application shows an operative device. I am satisfied, therefore, that the Examiners in Chief were right and that I should follow them in refusing to consider whether the alleged defect makes Powers's inoperative when the Law Examiner has definitely held that the specific defect set out in paragraph (c) of the motion to dissolve does not make the device inoperative, and this notwithstanding the fact that this appeal does clearly and admittedly bring up now for consideration the other alleged defects of the Powers apparatus. Of course in a case where the various points raised by a motion are so interlocked as to make their joint consideration essential they may all be considered on appeal although one point has been favorably acted on by the Law Examiner; but this is not such a case, since the points are clearly and admittedly segregable.

[5, 6] It is urged that the Powers apparatus is defective in that the totaling mechanism is inoperative. Attorney for Powers frankly admits that there is not an operative disclosure in this respect in the application; but he urges that the defect is one which can be cured by the mythical ordinary mechanic versed in the art without resort to invention. I do not feel called upon to consider that question now, for the reason that several of the counts of the issue, including count 6, do not, in terms, include totaling mechanisms. The Examiners in Chief, while admitting this is so, hold that since the device there claimed is illustrated as a part of a device which intends to include totaling mechanism the totaling mechanism must be implied in the claim, in effect holding that since the mechanism of count 6 is for illustrative purposes shown associated with a totaling mechanism which is inoperative, therefore the structure of count 6 itself must be held inoperative. I am unable to concur in this holding, for the reason that it seems clear to me that claim 6 is directed toward a separate subcombination of mechanism which in and of itself may have utility when employed with other totaling mechanism than that shown, or indeed with no totaling mechanism at all, leaving the operator to note the total, if indicated, with a pencil on the slip, including the printed individual items, or even to note the point at which a total is desired. (*Cox* v. *Headley* v. *Thompson*, 1920, C. D., 183; 275 O. G., 419; 265 Fed., 981; 49 App. D. C., 341.) There is no suggestion that the specific elements called for by count 6 are inoperative aside from their connection with the totaling mechanism. It seems to me desirable that an opportunity be given to take testimony to determine whether the device is capable of such separate operation. At least there is some doubt whether the totaling mechanism may be made operative without resorting to invention. This is a matter which can be best determined in view of testimony, and since the interference must proceed on count 6 and other similar counts it seems reasonable to allow the case to proceed on all the counts, so that the parties may produce such evidence as they deem necessary or desirable, to the end that the Patent Office may have before it at final hearing a more complete record from which to determine whether the Powers apparatus is inoperable in the sense that it requires invention to remedy the defects existing in the totaling mechanism.

The decision of the Examiners in Chief is reversed and the motion to dissolve denied.

S. P. DARBY AND UNION GROCERY COMPANY *v.* SOUTH GEORGIA PRODUCE COMPANY

Decided September 11, 1923.

TRADE-MARKS—OPPOSITION—RETURN OF FEE.

When an opposition is filed without the verification required by the statute, the fee may be returned if the verification is not filed within the statutory period.

REQUEST for return of fee.

TRADE-MARK FOR SELF-RISING FLOUR.

Mr. James T. Newton for S. P. Darby and Union Grocery Company.

Messrs. Mida and Wallace for South Georgia Produce Company.

FENNING, *Assistant Commissioner:*

This is a petition for return of fee in an opposition proceeding. The opposition was filed with the fee within the 30 days from date of publication allowed by the statute. It was not, however, accompanied by the verification required by the statute. No proper opposition, therefore, was filed and no opposition instituted. Applicant asks for the return of his fee.

The act of March 6, 1920, authorizes the Commissioner "to pay back any sum or sums of money paid to him by mistake." It has been the uniform practice of this Office for many years to refund to applicants fees paid in incomplete applications for patent and incomplete applications for registration of trade-marks when the applications have become abandoned for failure to complete within one year. Thus if an application for patent is filed with the fee, but the papers do not include the statutory oath, the fee will be returned if the papers are not completed. By analogy it seems clear to me that when an opposition is filed without the verification the fee should be returned if the verification is not filed within the statutory period.

Jeremy, in his Equity Jurisprudence, states that mistake is—

> that result of ignorance of law or fact which has misled a person to commit that which, if he had not been in error, he would not have done.

I am satisfied that applicant would not have paid the fee if he had not been misled to assume that the payment of the fee would institute an opposition proceeding. Ignorance of law or fact caused him to pay the fee by mistake.

The fee should therefore be returned. It is so ordered.

U. S. Circuit Court of Appeals—Eighth Circuit.

GEORGE E. LEE CO. ET AL. *v.* FORT-IFIED MFG. CO.

Decided October 16, 1922.

[284 Fed. Rep., 315.]

1. PATENTS—1,138,743, FOR MELTING DEVICE, VOID FOR PRIOR PUBLIC USE.

   The Froehlich patent, No. 1,138,743, for a melting device, consisting of a combination of mechanical elements for melting type metal and feeding the reservoir of a linotype machine, *Held* void for prior sale by the patentee and public use of a device containing the essential features of that patented.

2. SAME—1,233,068, FOR MELTING DEVICE, NOT INFRINGED.

   The Lee patent, No. 1,233,068, for a melting device for melting type metal for linotype machines, as limited by the proceedings in the Patent Office, *Held* not infringed.

3. SAME—LIMITATIONS IMPOSED BY ACQUIESCENCE IN RULINGS OF PATENT OFFICE.

   An applicant who acquiesces in rejection of his claim on references cited in the Patent Office and accepts a patent on an amended claim is thereby estopped from maintaining that the later claim covers the combination shown in the references and that it has the breadth of the rejected claim.

APPEAL from the District Court of the United States for the Western District of Missouri; Arba S. Van Valkenburgh, judge.

Suit in equity by the George E. Lee Company and Albert A. Froehlich against the Fort-ified Manufacturing Company. Decree for defendant, and complainants appeal. Affirmed.

Mr. A. J. Hudson (*Mr. George Y. Thorpe* and *Messrs. Thurston & Kicis* on the brief) for the appellants.

Mr. Arthur C. Brown (*Mr. O. W. Pratt, Mr. Cyrus Crane*, and *Messrs. Lathrop, Morrow, Fox & Moore* on the brief) for the appellee.

Before SANBORN, STONE, and LEWIS, Circuit Judges.

SANBORN, *Cir. J.:*

The plaintiffs below have appealed from a final decree of the district court whereby it adjudged that claims 11, 12, 13, 14, 17, and 18 of the patent to Albert A. Froehlich, No. 1,138,743, applied for June 29, 1912, and issued May 11, 1915, for a combination of mechanical elements to maintain a constant supply of melted material, normally solid, in a reservoir; and claims 4 and 5 of the patent, No. 1,233,068, to George E. Lee, assignor to the George E. Lee Company, applied for August 5, 1914, and issued July 10, 1917, for an auxiliary melting device of a similar character, are invalid, and that claims 1, 2, 3, and 4 of the latter patent are not infringed by the defendant's device, consisting of the combination of the patent, No. 1,266,651, applied for October 4, 1916, and issued May 22, 1917, to George L. Ford, assignor to Fort-ified Manufacturing Company, for improvements in melting-pot feeders.

All the claims in controversy are for combinations of mechanical elements. The chief element in each of them is a long vertical feeding pot or feeder, in which cold metal is melted, and from which the molten metal is fed through an opening in or near its bottom into the reservoir of a linotype machine beneath the feeder, so that the molten metal in the reservoir is constantly maintained at a substantially uniform level. The heat to melt the cold metal is applied to the outer surface of the feeder by means of gas burners or electrical resistant coils of wire, and the application of the heat is automatically regulated by a device for applying or withdrawing it, actuated by a float on the surface of the molten metal in the reservoir, or other like device, in such a way as to keep that surface continuously at substantially the same level.

[1] The issues of the validity and patentability of the various claims of Froehlich's patent here in suit and of their infringement which require consideration, relate to the feeder or feeding pot, and it is unnecessary to set forth in detail the other mechanical elements of the combinations. In his patent Froehlich called this feeder a crucible, and in the various claims thereof here in suit he described it as a crucible supported above the reservoir, adapted to hold molten material in solid form, having a slanting bottom portion provided with an opening in the wall thereof, a housing surrounding the crucible, a guiding frame within the housing to guide an ingot of solid material, and with means, a burner beneath the crucible, to melt the solid metal in the crucible.

In the early history of the art it was the practice to heat the reservoir of a linotype machine and to melt the solid material therein. After the metal therein had become molten, the reservoir was supplied by dropping cold solid material into the molten metal in the reservoir. The reservoir was then called the melting pot of the linotype machine, and this name is still often used to describe it. During the time relevant to the issues presented here the melting has been done in the feeding pots, whence molten metal has been fed from openings in or near the bottoms thereof to the reservoirs of the linotype machines beneath them. The old metal pot of the linotype machines has become in practice a mere reservoir, and the feeding pot above it has become in fact the melting pot. In the discussion here the former will be called the reservoir and the latter the melting pot.

A fair example of Froehlich's claims in suit is:

> 12. The combination, with a reservoir adapted to hold melted material, of a crucible adapted to contain said material in solid form, having a slanting bottom portion and provided with an opening in the wall thereof, said crucible being supported above the reservoir, means for supporting an ingot of solid material in proper relation with respect to said crucible, and means for melting the metal in the crucible.

His other claims in suit described the means referred to in claim 12, such as a guiding frame within a housing to hold the ingot in proper relation to the crucible, a bracket adjacent to the reservoir on which the platform sustaining the crucible is pivotally supported, so that it may be swung aside to afford access to the reservoir, and a gas burner beneath the crucible, through which gas to heat the crucible and melt the metal therein may be conducted.

The court below held that the combinations described in these claims were not patentable to Froehlich under section 4886, Revised Statutes (sec. 9430, U. S. Comp. Stat., 1918), because they were in public use and on sale in this country more than two years prior to the application for his patent. The evidence proved, and in this court counsel for the plaintiffs concede, that at some time between 1902 and 1905 Froehlich made and sold to the firm of Smith-Grieves Typesetting Company, of Kansas City, four melting pots or feeders, which the purchasers have repaired from time to time and have continuously and successfully operated in connection with reservoirs for linotype machines for the purpose for which Froehlich stated in his patent he devised his combination, to wit:

> Of furnishing the reservoir fresh supplies, in melted condition of the substance being used as the material in the reservoir is depleted and to maintain the quantity of material within the reservoir substantially uniform.

A short time after the purchase of these melting pots or feeders by the Typesetting Company they

bought of Froehlich four more, which they have successfully used for the same purpose. Froehlich's application for this patent was not made until June 29, 1912, more than six years after he had placed these eight melting pots in public use and on sale. There was testimony that he had offered for sale and sold other such melting pots at about the same time that he sold these.

Counsel for the plaintiff, however, contend that these old Froehlich machines do not anticipate the combinations of the claims under consideration, because the parts thereof which supported the metal to be melted were merely troughs open at both ends, and the gas flames which heated them played up around their sides, so that the molten metal was subjected to the flames and air to such an extent that an excessive quantity of dross was produced, that sometimes clogged the troughs and required frequent cleanings of the troughs and melting pots. Elimination of air prevents dross, and counsel for the plaintiffs argue that, because the patented combinations of Froehlich admitted less air and flame into contact with the melting metal than the old Froehlich machines did, the latter do not anticipate the former. The casing or housing of the old machines was a vertical rectangular box, open at the top and provided at the bottom with a wide, flat, V-shaped trough slanting downward to a corner, in which there was an opening to permit the molten metal to flow into the reservoir beneath it. The sides of this trough were turned up and screwed or riveted onto the sides of the melting pot, but the ends were open. The cold metal to be melted rested on the flat V-shaped bottom, which was heated by flames from gas burners beneath it. Numerous small pigs of metal were originally used in the casing when the machines were first put into operation, but soon thereafter a long ingot of metal of a diameter convenient nearly to fill the casing or housing soon took the place of the pigs and has since been used. This casing was provided with guide members within it to direct and hold the cold metal in proper relation to the inclined trough-shaped bottom of it.

The machine of the patent has a tubular vertical casing or housing within the open lower end of which a cup of less diameter than the casing sits. The lower end of the casing extends a short distance below the top of the cup, and there is a narrow open space between the cup and the casing into which air and flame may enter. The lower end of the ingot to be melted rests on the slanting bottom of the cup, and is held in proper relation to it by the guide members in the casing. Heat is applied by means of gas burners beneath the slanting bottom of the cup. This brief comparison of the old Froehlich machines with the machines of the patented claims in suit leaves no doubt that the principle and mode of operation of the mechanical elements of the combinations of the claims in suit were completely described by and used in the old Froehlich machines. Conceding that the combinations of the patent admit less air and flames into contact with the melting and melted metal, produce less dross, and are on that account more economical and efficient, it required no exercise of the genius of the inventor to restrict much more than the combinations of Froehlich's claims did the admission of air and flame into contact with the melting and melted metal. The other reasons urged why counsel claim that the combinations of the claims in suit constituted patentable improvements have received consideration, but they have proved even less persuasive than that which has been discussed, and the conclusion is that, when the state of the art and the old Froehlich machines, their sale and use, are given their just effect, there was no improvement upon those machines, or advance in the art which rose to the dignity of an invention, in any of the combinations of the claims of the Froehlich patent involved in this suit.

[2] The claims of Patent No. 1,233,068, issued July 10, 1917, to George E. Lee, here in controversy, like those which have been considered, relate to combinations with other elements, here immaterial, of a melting pot primarily intended and adapted to be used to melt cold metal and supply molten metal to the reservoir of a linotype machine. By these claims the patentee sought to secure to himself the exclusive right to use and sell improvements on the melting pot of the Froehlich patent, consisting of making the lower portion of the melting pot conical, with an opening at the lower end thereof, and applying the heat directly and substantially only to the converging or conical portion of the pot. The defendant made and sold melting pots of the same form and character, but it applied the heat to the cylindrical parts of them above the converging portions, as well as to the lower converging portions. It made this application of the heat by means of electrical resistance wire coils wound around the converging portion and an area of the cylindrical portion above the conical portion about equal to the area of the conical portion to which the resistance wires were applied. The court below was of the opinion that the defendant did not infringe these claims, because the patentee had estopped himself by his action in the Patent Office from maintaining any exclusive rights to the use or sale of such a melting pot, unless the heat was applied to it "directly and substantially only to the converging part thereof."

The patentee Lee filed his application for his patent on August 5, 1914, and his patent was issued on July 10, 1917. Meanwhile he was amending, withdrawing, and presenting various forms of claims to avoid prior patents and the objections and rejections of the Examiner in the Patent Office. His first claim and its history are typical of his other claims in suit here. In August, 1914, that first claim read in this way:

1. In a device of the character described, the combination with a receptacle adapted to hold material in molten form of a melting cup supported above said receptacle, and adapted to receive the material to be melted in solid form, said cup being provided with an outlet opening in the bottom thereof, the wall in the bottom of said cup converging in all directions to the said opening, and means for heating said cup.

That claim, and his claims 2, 3, 4, and 5, were rejected by the Examiner on September 19, 1914. After repeated subsequent presentations and rejections of this and various other claims, it was again presented on September 18, 1916, in this form:

1. In a device of the character described, the combination with a receptacle adapted to contain melted material, of a melting cup above said receptacle and adapted to receive material to be melted in solid form, the lower portion of said cup being formed with converging sides, and a heating device surrounding the converging portion of the melting cup and adapted to directly heat said portion of the melting cup.

This claim and claims 3 to 5 were rejected by the Examiner on September 29, 1916, on the patent to Casgrain, and the patentee then amended it, by erasing that part of the claim beginning with the word "surrounding" therein, and inserting in place of the words erased the words:

Directly co-operating with the converging portion of the melting cup and applying heat to the cup directly and substantially only to the converging portion thereof.

The patentee at the same time made like amendments of claims 4 and 5, and the claims so amended were then patented. The reason for this amendment was that the patent to Casgrain, No. 535,671, issued March 12, 1905, portrayed a melting cup for casting metals, and more specifically for casting aluminum, having an upper cylindrical portion and a lower converging portion, and the application of the heat to melt the metal to both the cylindrical and the converging portions thereof. Prior to these last amendments the Examiner had repeatedly cited this Casgrain patent as an anticipation, and at the time when Lee's counsel proposed this last amendment they wrote in their letter to the Commissioner of Patents in this way:

In the applicant's device the metal is solid most of the time, and heat is applied so as to melt only the lower conical portion of the ingot within the melting cup. It is not desired to heat the entire cup, and the heating of any more than the conical portion of the cup is purely incidental and is not desirable.

A clearer and more positive renunciation and abandonment to the public of the patentee's claim to the exclusive right to the use and sale of a combination with the other elements of Lee's claim of a melting cup to which heat is applied directly and substantially to the cylindrical as well as to the converging portion thereof it would be difficult to make. There is substantial evidence that the defendant in its experiments first directly applied heat to the conical portion of the pot, and found that this did not work satisfactorily, and that thereafter it wound its electrical resistance wires around about as large a surface of the lower part of the cylindrical portion of its melting pot as about the surface of the conical portion thereof, and found that the operation of the melting pot thus treated was more satisfactory and successful.

[3] An applicant for a patent, who acquiesces in the rejection of his claim on references cited in the Patent Office and accepts a patent on an amended claim, is thereby estopped from maintaining that the later claim covers the combinations shown in the references, and that it has the breadth of the claim that was rejected. (*Roemer* v. *Peddie*, 132 U. S., 313, 316, 317; 10 Sup. Ct., 98; 33 L. Ed., 382; 49 O. G., 2151; *Shepard* v. *Carrigan*, 116 U. S., 593, 598; 6 Sup. Ct., 493; 29 L. Ed., 723; 34 O. G., 1157; *Knapp* v. *Morss*, 150 U. S., 221, 224; 14 Sup. Ct., 81; 37 L. Ed., 1059.) The way was not open to Lee after he accepted his amended claims, nor to the plaintiffs in this case, to maintain that the Examiner's decision that Casgrain's patent anticipated Lee's claim to a melting pot to the cylindrical as well as to the converging portion of which heat was directly or substantially applied, was erroneous. Their remedy for that error was by appeal therefrom. Having failed to appeal, they are bound by that decision, whether right or wrong (*Shepard* v. *Carrigan*, 116 U. S., 593, 598; 6 Sup. Ct., 493; 29 L. Ed., 723.)

The state of the art when Lee's patent was applied for, the arguments and briefs of counsel, have received extended examination and deliberate consideration. They have, however, failed to convince that Lee and the plaintiffs were not estopped by the established rules of law and equity from maintaining that the defendant had infringed the claims of Lee's patent here in suit. The Examiner decided that, unless those claims were expressly limited to a melting pot to which the heat was applied directly and substantially only to the converging portion thereof, they were anticipated by Casgrain's patent, and unpatentable. Lee acquiesced in that decision, and amended them so as thus to limit them. The defendant makes and uses a melting pot, to the cylindrical portion of which, above the converging portion, heat is directly and substantially applied to assist in melting the metal in the pot, and Lee and the plaintiffs are estopped from maintaining that such a melting pot so used infringes the claims in suit.

In view of this conclusion it is unnecessary to discuss or decide the questions of the validity and the patentability of the claims of the patent to Lee here in suit, and a discussion of them is omitted.

Let the decree below be affirmed, with costs.

ADJUDICATED PATENTS.

(C. C. A. Ind.) The Rhodes patent, No. 777,488, for fish bait, claims 5 and 7 *Held* void for want of patentable novelty. *Shakespear Co.* v. *Creek Chub Bait Co.*, 291 Fed. Rep., 372.

(D. C. Pa.) The Thwing patent, No. 869,668, for pyrometer, claims 1, 2 and 3 *Held* valid and infringed. *Bristol Co.* v. *Brown Instrument Co.*, 291 Fed. Rep., 403.

(C. C. A. Ill.) The Murphy and Sisson patent, No. 1,031,571, for railway-car end structure, *Held* valid and infringed. *Mt. Vernon Car Mfg. Co.* v. *Pressed Steel Mfg. Co.*, 291 Fed. Rep., 321.

(D. C. Mass.) The Mauger patent, No. 1,036,289, for improvement in water gauges, *Held* invalid, or, if valid, not infringed. *Edna Brass Mfg. Co.* v. *Wiltbonco Mfg. Co.*, 291 Fed. Rep., 475.

(C. C. A. Ill.) The Murphy patent, No. 1,058,889, for railway-car construction, claim 5 *Held* void for lack of invention. *Mt. Vernon Car Mfg. Co.* v. *Pressed Steel Mfg. Co.*, 291 Fed. Rep., 321.

(C. C. A. Ill.) The Sisson patent, No. 1,254,860, for railway-car construction, *Held* valid and infringed. *Mt. Vernon Car Mfg. Co.* v. *Pressed Steel Mfg. Co.*, 291 Fed. Rep., 321.

(C. C. A. Ill.) The Sisson patent, No. 1,271,234, for steel railway-car end, *Held* void for lack of invention. *Mt. Vernon Car Mfg. Co.* v. *Pressed Steel Mfg. Co.*, 291 Fed. Rep., 321.

(D. C. Pa.) The Heitman patent, No. 1,301,434, *Held* valid. *Bristol Co.* v. *Brown Instrument Co.*, 291 Fed. Rep., 403.

(D. C. N. Y.) The Alexander patent, No. 1,367,971, for a brush pad, *Held* valid and infringed. *Henry L. Hughes Co.* v. *Monarch Brush Co.*, 291 Fed. Rep., 477.

(C. C. A. Ill.) The Sisson reissue patent, No. 14,434, for metal end sheets for railway box cars, *Held* valid and infringed as to claim 43 and not infringed as to claims 9 and 12. *Mt. Vernon Car Mfg. Co.* v. *Pressed Steel Mfg. Co.*, 291 Fed. Rep., 321.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

914,678, Frederick Skelton, Handles for shovels, spades, and other tools; 1,240,503, Frederick Skelton, D-handle, suit filed Oct. 9, 1923, D. C. N. D. Ohio (Eastern Div.), Doc. 970, *Frederick Skelton et al.* v. *The Connecaut Shovel Co. et al.*

958,478, W. E. Davey, Process of reenforcing trees, final decree for the plaintiff Oct. 15, 1923, injunction issued Oct. 16, 1923, D. C., Mass., *The Davey Tree Expert Co.* v. *Gabriel Jacques.*

1,079,195, C. M. Taylor, Stage foot lighting, suit filed Oct. 16, 1923, D. C., S. D. N. Y., Doc. E 27/165, *Walter Murray et al.* (*New York Calcium Light Co.*) v. *A. T. Kliegl et al.* (*Universal Electric Stage Lighting Co.*).

1,156,141, E. S. Hess et al., Ribbon spool for typewriting machines; 1,301,696, E. S. Hess et al., Ribbon spool, suit filed Oct. 17, 1923, D. C., S. D. N. Y., Doc. E 17/172, *Royal Typewriter Company, Inc.*, v. *Typewriter Efficiency Corporation et al.*

1,156,141, E. S. Hess et al., Ribbon spool for typewriting machines; 1,301,696, E. S. Hess et al., Ribbon spool, suit filed Oct. 17, 1923, D. C., S. D. N. Y., Doc. E 17/171, *Royal Typewriter Co., Inc.*, v. *Walter Grafton & Son, Ltd., et al.*

1,177,688, Cherubino D'Iorio, Coat, suits filed Oct. 16, 1923, D. C., S. D. Ohio, Doc. 326 and 327 in Equity, *Cherubino D'Iorio et al.* v. *The Big Store Company.*

1,240,503. (See 914,678.)

1,298,001, James N. Burris, Nonskid attachment for vehicle tires, suit filed Apr. 6, 1923, D. C., S. D. Ill. (Northern Div.), Doc. 210, *Henry E. Voss, Administrator of the Estate of James N. Burris*, v. *Bear Manufacturing Company.*

1,301,696. (See 1,156,141.)

Des. 52,962, Albert L. Pashek, Tire, suit filed Oct. 18, 1923, D. C., N. D. Ohio (Eastern Div.), Doc. 971, *Albert L. Pashek* v. *Dunlop Tyre & Rubber Company.*

ADVERSE DECISIONS IN INTERFERENCE.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,376,758, J. H. Gray, Operating mechanism for electric furnaces, decided September 18, 1923, claims 9, 10, and 11.

Pat. 1,386,837, L. Brown, Cranking device for tractors, decided September 15, 1923, claim 1.

Pat. 1,431,578, H. D. Garretson, X-ray system, decided September 27, 1923, claim 1.

Pat. 1,449,499, W. Davis, Electrically-operated brake mechanism for automobiles, decided September 29, 1923, claims 2 and 12.

TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 6, 1923.

[VOL. 316. No. 1.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 139,628. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) PIONEER ALLOY PRODUCTS COMPANY, Cleveland, Ohio. Filed Nov. 13, 1920.



Particular description of goods.—Metal Pipes and Metal Pipe Fittings.

Claims use since on or about Oct. 12, 1920.

Ser. No. 144,939. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PERFUMERIA FLORALIA, S. A., Madrid, Spain. Filed Mar. 18, 1921.

SUDORAL

Particular description of goods.—A Liquid Preparation to Offset the Odors of Perspiration.

Claims use since March, 1917.

Ser. No. 149,753. (CLASS 39. CLOTHING.) JEFFERSON MANUFACTURING COMPANY, Jefferson City, Mo. Filed June 28, 1921.

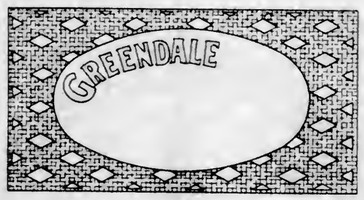


No claim is made to the word "Brand" apart from the mark shown in the accompanying drawing. The drawing is lined for red.

Particular description of goods.—Overalls, Jackets, Work Shirts, Flannel Shirts, Trousers, and Auto Combination Suits.

Claims use since Jan. 1, 1921.

Ser. No. 153,974. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GREENDALE DAIRY, North Adams, Mich. Filed Oct. 11, 1921.



The sectional lines in the drawing represent the color of that portion of the carton upon which the trade-mark is printed, as yellow.

Particular description of goods.—Creamery Butter.

Claims use since about June 1, 1918.

Ser. No. 159,675. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED D. WIKOFF COMPANY, Red Bank, N. J. Filed Feb. 21, 1922.



No claim is made to the words "Make 'Em Lay" apart from the mark shown.

Particular description of goods.—Poultry Foods—Namely, Poultry Mash, Scratch Foods, Growing Food, and Developing Food.

Claims use since about Nov. 1, 1921.

Ser. No. 159,749. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) H. G. JOHN FRANK, doing business as Auto Parts Company, Houston, Tex. Filed Feb. 24, 1922.

"THE HOUSE OF A MILLION PARTS"

Particular description of goods.—Dismembered Parts of Motor Vehicles—Namely, Engines Complete, Gears, Bearings, Crank Cases, Crank Shafts, Connecting Rods, Pistons, Cylinders, Cam Shafts, Push Rods and Guides, Carburetors, Manifolds, Mufflers, Fans, Universal Joints, and Valves for Motors.
Claims use since July 9, 1919.

Ser. No. 160,153. (CLASS 2. RECEPTACLES.) ROCHAMBEAU IMPORT & EXPORT CO., New York, N. Y. Filed Mar. 3, 1922.



No claim is made to the exclusive use of the word "Paris" apart from the mark as shown in the drawing.
Particular description of goods.—Perfume Bottles.
Claims use since July 1, 1921.

Ser. No. 160,715. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MABEL L. MURATA, New York, N. Y. Filed Mar. 15, 1922.

Rejuvenol

Particular description of goods.—Pharmaceutical Preparations, Face Creams, Face Powders, Rouges, Liquid Face Lotions, Manicuring Powders, Face and Nail Salves, Skin-Cleaning Creams, and Manicuring Polishes.
Claims use since Nov. 15, 1921.

Ser. No. 161,878. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) S. GALEWSKI CO. INC., New York, N. Y. Filed Apr. 7, 1922.

Paramount Brand

No claim is made to the word "Brand" apart from the mark shown.
Particular description of goods.—Suitcases, Coat Cases, Cases for Containing Automobilists' Equipment and Usually Made Part of or Attachable to an Automobile, Overnight Cases, Brief Cases, Gladstone Bags, Traveling Bags, Kit Bags, Collapsible Bags, Boston Bags.
Claims use since Jan. 1, 1915.

Ser. No. 162,552. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERSHEY BROTHERS, Harrisburg, Pa. Filed Apr. 19, 1922.

Hershey Bros

The mark "Hershey Bros." is a script signature of Mary Hershey, a sister of Roy Z. Hershey, who in turn is sales manager and a member of the applicant company.
Particular description of goods.—Milk Flour, Milk Paste, Milk-Chocolate Coating, Sweet-Chocolate Coating, Cocoa, Milk Chocolate, Almond Bars, and Milk-Chocolate Bars.
Claims use since April, 1920.

Ser. No. 162,570. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) RICHARD PALMER, New York, N. Y. Filed Apr. 19, 1922.

J.B.L CASCADE

Particular description of goods.—Hot-Water Bottles.
Claims use since 1896.

Ser. No. 163,404. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAM LEVENSON, Newark, N. J. Filed May 5, 1922.

DAILY PRIDE

The shading shown on drawing represents the color blue.
Particular description of goods.—Wheat Flour.
Claims use since Apr. 25, 1922.

Ser. No. 164,287. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) CURWEN S. YEAGLE, doing business as C. Y. Rubber Company, Baltimore, Md. Filed May 22, 1922.

STAZON

Particular description of goods.—Tube Patches.
Claims use since Jan. 21, 1922.

Ser. No. 164,490. (CLASS 31. FILTERS AND REFRIGERATORS.) CHEMICAL MACHINERY EXPERIMENT CO. INC., New York, N. Y. Filed May 25, 1922.

FLAKICE

No claim is made to the exclusive right to the use of the word "Flakice" except in the form shown in the accompanying drawing.
Particular description of goods.—Ice-Manufacturing Machines and Parts Thereof.
Claims use since May 19, 1922.

Ser. No. 164,703. (CLASS 39. CLOTHING.) HALE BROS., INC., San Francisco, Calif. Filed May 31, 1922.

"IRON THREAD"

Particular description of goods.—Hosiery.
Claims use since Jan. 1, 1900.

Ser. No. 165,323. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WILLIAMSON-HALSELL-FRASIER CO., Oklahoma, Okla. Filed June 10, 1922.

LOUIS

Particular description of goods.—Vinegar, Raisins, Canned Vegetables, Canned Fruits, Canned Milk, Catchup, Canned Berries, Canned Oysters, Canned Table Sirup, Fruit Butters, Coffee, Dried and Evaporated Apples, Peanut Butter, Tea, Rolled Oats, Canned Hominy, and Canned Fish.
Claims use since Jan. 2, 1920.

Ser. No. 165,477. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHESTER A. ASHER, Germantown, Philadelphia, Pa. Filed June 14, 1922.

MAPLE LEAF

Particular description of goods.—Candy.
Claims use since 1893.

Ser. No. 166,052. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMLET-WINEBRENNER CO., Hanover, Pa. Filed June 26, 1922.

QUALITY EW PRODUCTS

No claim is made to the words "Quality Products" apart from the mark shown in the drawing, applicant reserving, however, its common-law rights thereto.
Particular description of goods.—Dobell's Solution, Witch-Hazel, Chloroform Lozenges, Chloroform Liniment, Soap Liniment, Spirit of Ammonia, Spirit of Camphor, Spirit Turpentine, Tincture of Arnica, Tincture Iodine, Cod-Liver Oil, Castor Oil, Camphorated Oil, Coconut Oil, Oil of Citronella, Sweet Oil, Rhubarb and Soda Mixture, Rose Water and Glycerin, Household Ammonia, and Egg Preservative.
Claims use since May 17, 1922.

Ser. No. 166,488. (CLASS 37. PAPER AND STATIONERY.) WILLIAM A. WELSH, Riverton, N. J., and Philadelphia, Pa. Filed July 3, 1922.

PAPER © SERVICE

The applicant hereby disclaims any right in and to the words "Paper" and "Service" apart from the trademark shown.

Particular description of goods.—Paper and Stationery.
Claims use since Jan. 1, 1922.

Ser. No. 166,493. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JACQUELINE FRÈRES LIMITED, London, England. Filed July 3, 1922.

PUFKIN

Particular description of goods.—Powder Puffs.
Claims use since May, 1922.

Ser. No. 166,531. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MELLOYD CO., INC., New York, N. Y. Filed July 6, 1922.

FROZEN JOY

Particular description of goods.—Food Products—Namely, Ice Cream and Frozen Confections.
Claims use since June 28, 1922.

Ser. No. 166,661. (CLASS 5. ADHESIVES.) DEUTSCHE CAPSELIN- & ZINNOLITWERKE GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Hamburg-Wandsbek, Germany. Filed July 10, 1922.

CAPSELIN

Particular description of goods.—Bottle Varnishes, Adhesive Gums, and Sealing Wax for Sealing Bottles.
Claims use since Sept. 3, 1908.

Ser. No. 167,294. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CORBY BAKING COMPANY, INC., Washington, D. C. Filed July 24, 1922.

CORBY IS FULL OF LIFE

Particular description of goods.—Bread and Cake.
Claims use since Mar. 1, 1922.

Ser. No. 167,858. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WILLIAM BALLARD WEBBER, doing business as The Tang Company, Los Angeles, Calif. Filed Aug. 5, 1922.

TANG

Particular description of goods.—Maltless Flavoring Extracts, Emulsions, Sirups for Soda Fountain Purposes, and Nonalcoholic Beverages.
Claims use since May 20, 1921.

Ser. No. 168,120. (CLASS 7. CORDAGE.) NEW YORK NET & TWINE CO., Moodus, Conn. Filed Aug. 11, 1922.

SQUARE DEAL

No claim being made to the representation of the goods per se apart from the mark shown on the drawing.

Particular description of goods.—Ropes, Cords, and Twine Made of Fiber.
Claims use since Mar. 14, 1922.

Ser. No. 168,394. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN CALIFORNIA FISH CO., San Francisco, Calif. Filed Aug. 17, 1922.

WESTCAL

Particular description of goods.—Canned Fish.
Claims use since Jan. 15, 1919.

Ser. No. 168,454. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CUTHBERT S. BUTCHART COMPANY, INC., Rye, N. Y. Filed Aug. 19, 1922.

BILTMORE SPECIAL

Particular description of goods.—Golf Balls.
Claims use since June 1, 1922.

Ser. No. 169,628. (CLASS 33. GLASSWARE.) THE DWELLE-KAISER CO., Buffalo, N. Y. Filed Sept. 18, 1922.

KLEARLITE

Particular description of goods.—Window Glass.
Claims use since about Aug. 1, 1922.

Ser. No. 171,538. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. C. HOFMANN & SONS, Syracuse, N. Y. Filed Nov. 3, 1922.

HOFMANN'S H PEERLESS

The word "Peerless" does not form a part of the registration sought apart from the mark shown in the drawing.

Particular description of goods.—Bacon, Canned Corned Beef, Corned Pork, Veal Loaf, Hams, and Lard.
Claims use since October, 1906.

Ser. No. 172,300. (CLASS 15. OILS AND GREASES.) UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif. Filed Nov. 20, 1922.

UNOCO

The mark consists of the word "Unoco."

Particular description of goods.—Lubricating Oils and Gasoline.
Claims use since June 14, 1916.

Ser. No. 172,600. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN KIRKPATRICK, Richland Center, Wis. Filed Nov. 27, 1922.

WHITE STAR

Particular description of goods.—Cheese.
Claims use since April, 1903.

Ser. No. 173,015. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MATTI TUURI, Fairport Harbor, Ohio. Filed Dec. 6, 1922.



No claim is made to the exclusive use of the wording appearing on the drawing apart from the other features of the mark.

Particular description of goods.—Cakes.

Claims use since Apr. 6, 1921.

Ser. No. 173,379. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn. Filed Dec. 15, 1922.



The lining on the drawing is for the purpose of shading and merely indicates contrasting coloring and does not indicate any specific colors.

Particular description of goods.—Flour Made from Wheat.

Claims use since on or about June 22, 1922.

Ser. No. 173,451. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THOMPSON MILLING COMPANY, Lockport, N. Y. Filed Dec. 16, 1922.



Particular description of goods.—Wheat Flour.

Claims use since Oct. 11, 1922.

Ser. No. 173,462. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. BASCELLI & BROS., Philadelphia, Pa. Filed Dec. 18, 1922.



The portraits shown in the trade-mark are those of Concezio Bascelli and Louis Bascelli.

Particular description of goods.—Relief of Carbuncles, Tumors, Enlarged Glands, Abscesses, Infections, and Swellings.

Claims use since July 24, 1922.

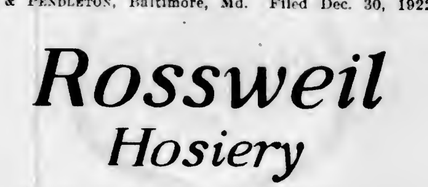
Ser. No. 173,531. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE QUAKER OATS COMPANY, Chicago, Ill. Filed Dec. 18, 1922.



Particular description of goods.—Rolled Oats and Wheat Flour.

Claims use since Oct. 1, 1898.

Ser. No. 174,049. (CLASS 39. CLOTHING.) WEILER & PENDLETON, Baltimore, Md. Filed Dec. 30, 1922.



No claim is made to the word "Hosiery" apart from that shown in the accompanying drawing.

Particular description of goods.—Hosiery.

Claims use since April, 1922.

Ser. No. 174,651. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHRISTIAN N. BERGMANN, Pittsburgh, Pa. Filed Jan. 16, 1923.



Particular description of goods.—Ice Cream.

Claims use since Jan. 2, 1923.

Ser. No. 174,830. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDMUNDO B. FERNÁNDEZ, Bayamon, Porto Rico. Filed Jan. 20, 1923.



The terms "Santa Ana" and "Alcoholado" appearing on the drawing are hereby disclaimed.

Particular description of goods.—Alcoholado, a Preparation Composed of Pure Rectified Alcohol Holding in Perfect Solution and Combination the Active Principles of Various Aromatic and Balsamic Plants.

Claims use since June, 1920.

Ser. No. 175,058. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich. Filed Jan. 25, 1923.



Particular description of goods.—Biscuits Having Laxative Properties.

Claims use since Mar. 1, 1914.

Ser. No. 175,733. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAX PINKUS, doing business as John Price & Co., Philadelphia, Pa. Filed Feb. 8, 1923.



Particular description of goods.—Bottled Mustard, Preserved Fruits, Jellies, Canned Tomatoes, Canned Peas, Canned Corn, and Canned String Beans.

Claims use since Mar. 25, 1897.

Ser. No. 175,845. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAPITAL CITY MILLING & GRAIN CO., St. Paul, Minn. Filed Feb. 10, 1923.



Particular description of goods.—Wheat Flour and Stock Feeds.

Claims use since May 1, 1916.

Ser. No. 175,933. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMUEL L. LIPKIN, doing business as "Greenpoint Bird Store," Brooklyn, N. Y. Filed Feb. 12, 1923.



FUL-o-PEP

Particular description of goods.—Canned Food—Namely, Bird Food.
Claims use since Nov. 11, 1921.

Ser. No. 175,946. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ROBINSON MILLING COMPANY, Salina, Kans. Filed Feb. 12, 1923.



The color lining indicates blue.
Particular description of goods.—Wheat Flour.
Claims use since Jan. 1, 1923.

Ser. No. 175,969. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY OF NEW YORK, New York N. Y. Filed Feb. 12, 1923.



Particular description of goods.—Lubricating Oils.
Claims use since 1900.

Ser. No. 176,059. (CLASS 39. CLOTHING.) LOUIS BLOCH, doing business as Louis Bloch & Co., Pittsburgh, Pa. Filed Feb. 15, 1923.

KRELL'S

Particular description of goods.—Men's, Women's, and Children's Woven and Knit Underwear Comprising Both One and Two Piece Garments.
Claims use since July 1, 1922.

Ser. No. 176,100. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN B. REESIDE, doing business as Reeside Drug Company, Baltimore, Md. Filed Feb. 15, 1923.

EL-O-REENE

Particular description of goods.—Compound Used in the Treatment of Headache, Neuralgia, Brain Fatigue, and Sleeplessness.
Claims use since Jan. 1. 1901.

Ser. No. 176,151. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE AMOS-JAMES GROCER CO., St. Louis, Mo. Filed Feb. 17, 1923.

I-NO-U

Particular description of goods.—Canned Vegetables, Canned Fruits, Canned Berries, Canned Fish, Canned Pork and Beans, Currants, Raisins, Fruit Butter, Nut Butter, Fruit Jellies, Fruit Jams, Fruit Preserves, Cocoa, Coffee, Tea, Shelled Nuts, Whole Nuts, Canned Soup, Evaporated Milk, Molasses, Table Sirup, Olives, Olive Oil, Breakfast Cereal, Spices, Poultry Feed, Food-Flavoring Extracts, Condiments—Namely, Horse-Radish, Mustard, Worcestershire Sauce, Tabasco Sauce, Pepper, Salad Dressing, Chili Sauce, Catchup, Pickles, Specially-Prepared Relish, Cabbage, and Cottonseed Oil; Mincemeat and Candies.
Claims use since July 15, 1922.

Ser. No. 176,255. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) DAZEY MANUFACTURING COMPANY, Los Angeles, Calif. Filed Feb. 19, 1923.

Dazey

Particular description of goods.—Metal Flower Holders.
Claims use since Mar. 1, 1921.

Ser. No. 177,039. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) EVA BRADBURY FRANK, New York, N. Y. Filed Mar. 6, 1923.

MYSTIC CURLERS

Particular description of goods.—Hair Curlers.
Claims use since Aug. 26, 1922.

Ser. No. 177,255. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VOLTA CO. OF AMERICA, INC., Philadelphia, Pa. Filed Mar. 10, 1923.

Volta



The signature appearing on the drawing is a reproduction of the signature of Chas. A. Gianelli.
Particular description of goods.—A Preparation for the Treatment of Rheumatism, Sciatica, Lumbago, Gout, and Neuritis.
Claims use since about Dec. 15, 1922.

Ser. No. 177,378: (CLASS 39. CLOTHING.) HICKEY-FREEMAN CO., Rochester, N. Y. Filed Mar. 13, 1923.



No claim is made to the expression "Shower Proofed" apart from the mark shown in the drawing.
Particular description of goods.—Overcoats and Topcoats.
Claims use since Sept. 25, 1922.

Ser. No. 177,404. (CLASS 38. PRINTS AND PUBLICATIONS.) PHOTOPLAY PUBLISHING COMPANY, Chicago, Ill., and New York, N. Y. Filed Mar. 13, 1923.

THE NATIONAL GUIDE TO PICTURES

Particular description of goods.—A Monthly Publication.
Claims use since November, 1922.

Ser. No.177,608. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KEYSTONE FRUIT PRODUCTS COMPANY, Cincinnati, Ohio. Filed Mar. 17, 1923.

APRICOPINE

Trade-mark "Apricopine."
Particular description of goods.—Preserved Fruit. The product consists of crushed apricots and crushed pineapple and is used as an ingredient in the manufacture of ice cream and ices and is also used as a sundae to be placed over ice cream at soda fountains and the like.
Claims use since Oct. 10, 1922.

Ser. No. 177,761. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELMER L. BALLEW, Chicago, Ill. Filed Mar. 21, 1923.



Lite Lunch Food Products

No claim is made to the words "Lite Lunch Food Products" aside from the mark shown, and as granted to me on the name "Lite Lunch."
Particular description of goods.—Foods—Namely, Bread, Cakes, Pies, Waffles, Doughnuts, Rolls, Buns, Biscuit, Crackers, Cookies, Tarts, and Sandwiches, Also Canned and Preserved Fruits and Vegetables.
Claims use since May 20, 1922.

Ser. No. 177,827. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA PEACH & FIG GROWERS, Fresno, Calif. Filed Mar. 22, 1923.

Keep Your System Regulated



Particular description of goods.—Dried Peaches and Figs.
Claims use since Oct. 1, 1922.

Ser. No. 178,192. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE RED STAR MILLING COMPANY, Wichita, Kans. Filed Mar. 28, 1923.



Particular description of goods.—Wheat Flour, Self-Rising Pancake Flour, Wheat Meal, Rolled Wheat, Corn Meal, Table Bran, and Graham Flour.
Claims use since Aug. 1, 1905.

Ser. No. 178,302. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) STUARTS & JACKS, LIMITED, Musselburgh, Scotland. Filed Mar. 29, 1923.



Particular description of goods.—Fishing Nets.
Claims use since November, 1910.

Ser. No. 178,444. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KENTWOOD ICE MANUFACTURING & BOTTLING WORKS, LTD., Kentwood, La. Filed Apr. 2, 1923.

KIM

Particular description of goods.—Ice Cream, Butter, Ice-Cream Mix, and Condensed Milk.
Claims use since April, 1921.

Ser. No. 178,445. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KENTWOOD ICE MANUFACTURING & BOTTLING WORKS, LTD., Kentwood, La. Filed April 2, 1923.



No claim is made to the words "The Mark of Quality" and "Kentwood, La." except in the relation shown.
Particular description of goods.—Ice Cream, Butter, Ice-Cream Mix, and Condensed Milk.
Claims use since April, 1921.

Ser. No. 178,548. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LILLIE BROWN, Brooklyn, N. Y. Filed Apr. 4, 1923.



Particular description of goods.—Foot Salve to Relieve Inflammation and Pains in the Feet.
Claims use since Mar. 1, 1923.

Ser. No. 178,660. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANCES ALMEDA ELIASON, Muscatine County, Iowa. Filed Apr. 6, 1923.

O-Fran-Co.

Particular description of goods.—Vaginal Suppositories.
Claims use since Apr. 2, 1923.

Ser. No. 178,677. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SHERWOOD BROS. MFG. CO. INC., Canastota, N. Y. Filed Apr. 6, 1923.

SPRING COASTER

Particular description of goods.—Children's Vehicles—Namely, Four-Wheeled Wagons.
Claims use since March, 1916.

Ser. No. 178,773. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAURICE H. ROSOFF, doing business as The Rosoff Pharmacal Company, Philadelphia, Pa. Filed Apr. 7, 1923.

MERCURAZINE

Particular description of goods.—An Organic Compound of Mercury Used as a Local Antiseptic in Medicine.
Claims use since Jan. 10, 1922.

Ser. No. 178,843. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK E. HARRISON, Chicago, Ill. Filed Apr. 9, 1923.

HPS

Particular description of goods.—Pile Salve.
Claims use since Feb. 6, 1922.

Ser. No. 178,943. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. F. WUNDERLICH CO. INC., New York, N. Y. Filed Apr. 10, 1923.

CONIFEROL

Particular description of goods.—Toilet Preparation in Tablet, Powder, and Liquid Form to be Added to the Bath for Medicinal Purposes.
Claims use since about April, 1922.

Ser. No. 179,221. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHYSIOLOGICAL PRODUCTS PROPRIETARY, Sydney, New South Wales, Australia. Filed Apr. 16, 1923.

BIAZYME

Particular description of goods.—Medicine for the Treatment of Diseases Due to or Associated with or Partially Caused by Deficiency of One or More of the Internal Secreting Glands.
Claims use since Jan. 16, 1922.

Ser. No. 179,279. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOURNAY, INC., Milwaukee, Wis. Filed Apr. 17, 1923.

"The Living Odor"

Particular description of goods.—Rouge, Cold Cream, Lip Stick, Toilet Water, Talcum Powder, and Face Powder.
Claims use since Mar. 15, 1923.

Ser. No. 179,292. (CLASS 39. CLOTHING.) WILH. BLEYLE, G. M. B. H., Stuttgart, Germany. Filed Apr. 18, 1923.



Particular description of goods.—Men's, Women's, and Children's Garments—Namely, Suits of Clothes, Dresses, Coats, and Knitted Underwear.
Claims use since 1889.

Ser. No. 179,352. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE E. BLANCHARD, doing business as Blanco Remedy Company, Mendota, Ill. Filed Apr. 19, 1923.

LULO

Particular description of goods.—Preparation for Roup, Cholera, and White Diarrhea for Poultry.
Claims use since July 1, 1922.

Ser. No. 179,490. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES H. SMITH, Turlock, Calif. Filed Apr. 21, 1923.

PEACOCK

Particular description of goods.—Fresh Cantaloupes, Honey Dews, and Casabas.
Claims use since 1914.

Ser. No. 179,534. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HILLSDALE BAKING COMPANY, Hillsdale, Mich. Filed Apr. 23, 1923.

ISLE O' MANN

Particular description of goods.—Whole-Wheat Bread.
Claims use since July 1, 1920.

Ser. No. 179,689. (CLASS 39. CLOTHING.) FRANKLIN SIMON & CO. INC., New York, N. Y. Filed Apr. 25, 1923.

Harrow

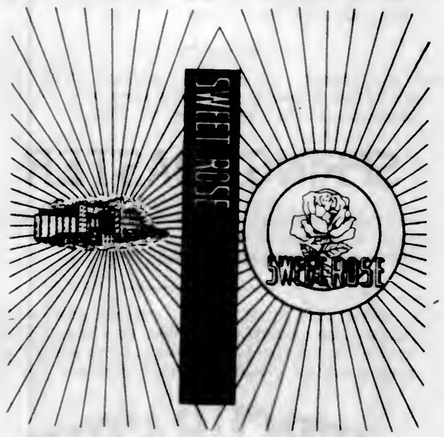
Particular description of goods.—Men's and Boys' Furnishings, Undergarments, and Clothing—Namely, House Coats, Waistcoats, Bath Robes, Smoking Robes, Smoking Jackets, Drawers, Pyjamas, Dress Shirts, Undershirts, Nightshirts, Union Suits, Bathing Suits, Swimming Suits, Dressing Gowns, Sweaters, Mufflers, Collars, Gloves, Hosiery, Overcoats, Raincoats, Dress Suits, Golf Suits, Hunting Suits, Riding Suits, Tuxedo Suits, Walking Suits, Sack Suits, Trousers, Hats, and Caps Made Out of Textile Material; and Gloves, Sweaters, Mufflers, Bathing Suits, Swimming Suits, Drawers, Undershirts, Hats, and Caps Made Out of Knitted Material; and for Women's, Girls', and Misses' Furnishings, Undergarments and Clothing—Namely, Dresses, Corsets, Tailored Suits, Walking Suits, Sport Suits, Golf Suits, Riding Suits, Negligees, Skirts, Nightgowns, Petticoats, Neckwear, Gloves, Bodices, Chemises, Drawers, Combinations, Bath Robes, Shirt Waists, Bathing Suits, Dressing Gowns, Sweaters, Mufflers, Hosiery, Raincoats, Sport Coats, Hats, Caps, and Coats Made Out of Textile Material; and Dresses, Corsets, Tailored Suits, Walking Suits, Sport Suits, Negligees, Golf Suits, Riding Suits, Skirts, Nightgowns, Petticoats, Neckwear, Gloves, Bodices, Chemises, Drawers, Combinations, Bath Robes, Shirt Waists, Bathing Suits, Dressing Gowns, Sweaters, Mufflers, Hosiery, Hats, and Caps Made Out of Knitted Material; and for Men's, Women's, Boys', and Girls' Shoes, Boots, Slippers, Leggings, Puttees, Made Out of Leather, Rubber, Canvas, Buckskin, or Linen, or Compositions of Similar Materials.
Claims use since Mar. 1, 1923.

Ser. No. 179,758. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Apr. 26, 1923.

RAISIN TREAT

Particular description of goods.—Bread.
Claims use since Apr. 12, 1923.

Ser. No. 179,924. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERNET, CRAFT & KAUFFMAN MILLING CO., St. Louis, Mo. Filed Apr. 30, 1923.



Particular description of goods.—Wheat Flour.
Claims use since June, 1922.

Ser. No. 180,057. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EBREY CHEMICAL WORKS, New York, N. Y. Filed May 2, 1923.

Paul Ebrey

Anticalculina Ebrey

Particular description of goods.—Medicines for Relief of Gallstones, Gravel; Kidney, Bladder, and Liver Troubles; Laxative Pills; Dandruff and Hair Remedy, and Digestive Tablets.
Claims use since July 1, 1908.

Ser. No. 180,075. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAGGIOROS & ROUSOS, Rochester, N. Y. Filed May 2, 1923.

LUCIA

Particular description of goods.—Oil for Mayonnaise and Salads.
Claims use since Apr. 5, 1923.

Ser. No. 180,113. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE FARMAKES, Neenah, Wis. Filed May 3, 1923.



Particular description of goods.—Candy.
Claims use since Feb. 3, 1923.

Ser. No. 180,147. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WM. SIMPSON, SONS & Co., Philadelphia, Pa. Filed May 3, 1923.

CHARMETTE

Particular description of goods.—Warp Sateens.
Claims use since April, 1922.

Ser. No. 180,242. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SANITOL CHEMICAL LABORATORY COMPANY, now by change of name, The Sanitol Company, St. Louis, Mo., and New York, N. Y. Filed May 5, 1923.

SANITOL

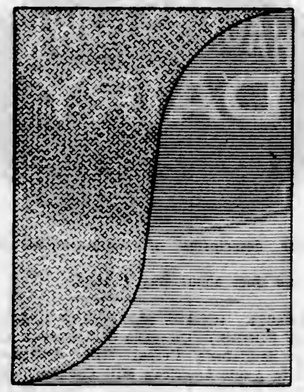
Particular description of goods.—Shaving Soap, Shaving Powder, Shaving-Soap Cream, and Toilet Soap.
Claims use since Mar. 11, 1903, on shaving soap and toilet soap; since May, 1920, on shaving powder and shaving cream.

Ser. No. 180,258. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SANITOL CHEMICAL LABORATORY COMPANY, now by change of name, The Sanitol Company, St. Louis, Mo., and New York, N. Y. Filed May 5, 1923.

SANITOL

Particular description of goods.—Tooth Powder, Tooth Paste, Liquid Antiseptics, Dentifrice, Hair Tonic, Face Lotion, Cold Cream, Talcum Powder, Face Powder, Liquid Shampoo, Compact Complexion Powder, Compact Rouge, Vanishing Face Cream, and Massage Cream.
Claims use since Aug. 15, 1896, on dentifrice; since Sept. 25, 1903, on face cream; since 1904 on talcum powder; since 1905 on tooth powder, tooth paste, liquid antiseptics, dentifrice, hair tonic, face lotion and face powder; since May, 1920, on liquid shampoo, compact powder, compact rouge, and massage cream.

Ser. No. 180,297. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES O. SANDEFUR, doing business as Sandefur's Cereal Mill, Owensboro, Ky., assignor to Anglo-American Mill Company, Owensboro, Ky., a Corporation of Delaware. Filed May 7, 1923.



The linings in the drawing conventionally indicate the colors orange and blue.
Particular description of goods.—Corn Meal, Cereal Scratch, and Chick Feed for Poultry, Cereal Feed for Hogs.
Claims use since Apr. 1, 1923.

Ser. No. 180,483. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MIDLAND FLOUR MILLING Co., Kansas City, Mo. Filed May 11, 1923.

EMPERATRIZ

Particular description of goods.—Wheat Flour.
Claims use since Apr. 1, 1922.

Ser. No. 180,499. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAENGER DRUG COMPANY, INC., Shreveport, La. Filed May 11, 1923.

ELIRETS

Particular description of goods.—A Preparation for the Treatment by Direct Medication of Disorder and Disturbed Conditions of the Female Organs, Particularly Local Inflammation.
Claims use since July, 1920.

Ser. No. 180,565. (CLASS 39. CLOTHING.) TISSUEPKT UNDERWEAR COMPANY, Indianapolis, Ind. Filed May 12, 1923.

"TISSUEPKT"

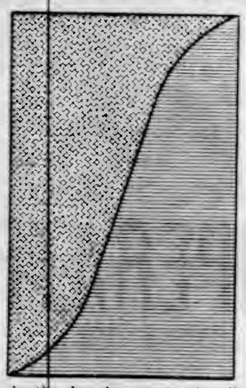
Particular description of goods.—Knitted and Textile Fabric Underwear for Men, Women, and Children.
Claims use since Oct. 20, 1919.

Ser. No. 180,598. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAGERSTOWN DAIRY COMPANY, Hagerstown, Md. Filed May 14, 1923.

HAGERSTOWN DAIRY

Particular description of goods.—Fresh Milk and Cream.
Claims use since about May 1, 1923.

Ser. No. 180,621. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES O. SANDEFUR, doing business as Sandefur's Cereal Mill, Owensboro, Ky., assignor to Anglo-American Mill Company, Owensboro, Ky., a Corporation of Delaware. Filed May 14, 1923.



The linings in the drawing conventionally indicate the colors orange and blue.
Particular description of goods.—Pancake Flour Made from Wheat, Cracked Cereal Food Made from Corn, Cracked Cereal Food Made from Wheat, and Graham or Whole-Wheat Flour.
Claims use since Apr. 1, 1923.

Ser. No. 180,870. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOUISVILLE GROCERY CO., Louisville, Ky. Filed May 19, 1923.

OUR SEAL



Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Fish, Rice, Rolled Oats, Macaroni, Spaghetti, Noodles, Spices, and Coffee.
Claims use since 1902.

Ser. No. 180,881. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEBRASKA CONSOLIDATED MILLS COMPANY, Grand Island, Nebr. Filed May 19, 1923.

WISDOM



Particular description of goods.—Wheat Flour.
Claims use since May 8, 1923.

Ser. No. 180,941. (CLASS 37. PAPER AND STATIONERY.) P. L. PEASE & COMPANY, INC., Lancaster, N. Y. Filed May 21, 1923.



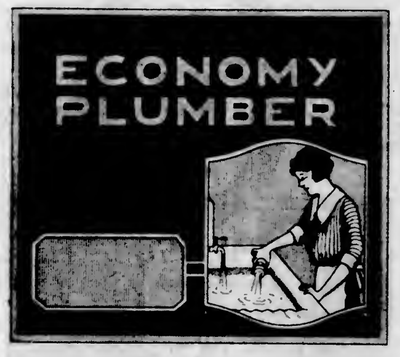
Particular description of goods.—Blotter Pads, Rocking Blotters, Inkwells, Calendar Stands, Envelope Racks, Pen Trays, Paper Knives, Telephone Shields, Sealing-Wax Trays, Book Ends, Quills, Quill Holders, and Blotter Sets, All of These Articles Being Made Partly or Entirely of Nonprecious Metals.
Claims use since May 5, 1923.

Ser. No. 181,200. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOOSE-WILES BISCUIT COMPANY, Long Island City, N. Y. Filed May 26, 1923.

CORDIAL

Particular description of goods.—Biscuits.
Claims use since Jan. 18, 1923.

Ser. No. 181,446. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HERCULES CHEMICAL CO. INC., doing business as The Economy Plumber Company, New York, N. Y. Filed June 1, 1923.



The lining on the drawing is used merely to indicate shading.
Particular description of goods.—A Solution for Clearing Stopped-Up Drain and Sewer Pipes.
Claims use since Mar. 10, 1923.

Ser. No. 181,465. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARTHUR W. TAYLOR, doing business as Taylor & Taylor, Portland, Oreg. Filed June 1, 1923.

NO-FUT-OD

Particular description of goods.—Deodorants and Preventives of Excessive Perspiration.
Claims use since May 1, 1921.

Ser. No. 181,502. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SWEETWATER COTTON OIL CO., Sweetwater, Tex. Filed June 2, 1923.

"SWEETCO"

Particular description of goods.—Feed for Live Stock.
Claims use since Sept. 1, 1921.

Ser. No. 181,569. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PRESTO MANUFACTURING CO., New York, N. Y. Filed June 5, 1923.



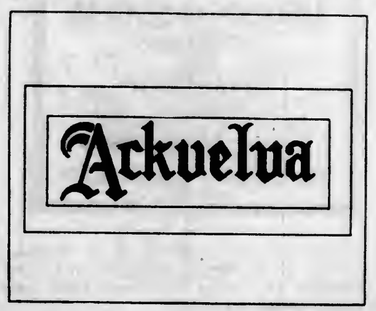
Applicant disclaims the words "Tooth Stain Remover" apart from the mark shown in the drawing.
Particular description of goods.—Fluid for Removing Stains from the Teeth.
Claims use since Mar. 31, 1923.

Ser. No. 181,577. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WEST COAST TRADING COMPANY, San Francisco, Calif. Filed June 5, 1923.



Particular description of goods.—Incense.
Claims use since June 2, 1922.

Ser. No. 181,581. (CLASS 39. CLOTHING.) SIMON ACKERMAN, New York, N. Y. Filed June 6, 1923.



Particular description of goods.—Men's Clothing—Namely, Suits, Overcoats, Top Coats, and Trousers.
Claims use since Feb. 1, 1923.

Ser. No. 181,582. (CLASS 39. CLOTHING.) SIMON ACKERMAN, New York, N. Y. Filed June 6, 1923.

Velvora

Particular description of goods.—Men's Clothing—Namely, Suits, Overcoats, Top Coats, and Trousers.
Claims use since Feb. 1, 1923.

Ser. No. 181,586. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BAILEY E. CHANEY, Baton Rouge, La. Filed June 6, 1923.

Skidoo

Particular description of goods.—Insecticide.
Claims use since May 1, 1923.

Ser. No. 181,608. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE OAKLAND CHEMICAL COMPANY, New York, N. Y. Filed June 6, 1923.

ESTE LADO PARA CIMA
— Primeiro Socorro Sempre —

EAU OXYGÉNÉE

Dioxogen
A POWERFUL ANTISEPTIC AND DISINFECTANT FOR INTERNAL AND EXTERNAL USE INODOROUS AND HARMLESS
THE OAKLAND CHEMICAL CO.
NEW YORK

All of the wording appearing on the drawing with the exception of the words "Dioxogen" and "The Oakland Chemical Co." being disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Antiseptic and Disinfectant Compounds.
Claims use since May 1, 1901.

Ser. No. 181,610. (CLASS 6. CHEMICALS MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BARNET OSMAN, doing business as Stamford Drug Company, Stamford, Conn. Filed June 6, 1923.

LEMONASIA

Particular description of goods.—A Purgative and Laxative.
Claims use since Nov. 20, 1922.

Ser. No. 181,717. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROMANO BALDASSARE AND CO., Frankfort, N. Y. Filed June 9, 1923.



No claim is made to the wording appearing on the drawing with the exception of "Romano Baldassare & Company" aside from the mark shown.
Particular description of goods.—Hair Shampoo.
Claims use since May 15, 1923.

Ser. No. 181,727. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHASE & CO., Jacksonville, Fla. Filed June 9, 1923.

Sunniland

Particular description of goods.—Preserved, Canned, and Bottled Fruits and Canned Vegetables.
Claims use since Sept. 3, 1915.

Ser. No. 181,734. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT H. CROMWELL, doing business as Normany Products Co., Los Angeles, Calif. Filed June 9, 1923. The portrait of the trade-mark is fanciful.



Particular description of goods.—A Preparation for Imparting a Glossy Appearance to the Hair.
Claims use since Nov. 7, 1922.

Ser. No. 181,781. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES V. RYBACK, doing business as J. V. Ryback's Laboratory, Philadelphia, Pa. Filed June 9, 1923.

TOX

Particular description of goods.—Foot Powders.
Claims use since on or about June 1, 1922.

Ser. No. 181,790. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TRYALAX MANUFACTURING CO., Philadelphia, Pa. Filed June 9, 1923.

ENERGETS

Particular description of goods.—A Medicinal Preparation for the Stomach and Nerves.
Claims use since Apr. 6, 1921.

Ser. No. 181,810. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BARTLETT CORPORATION, Philadelphia, Pa. Filed June 11, 1923.

NO-TAST-OL

Particular description of goods.—Castor Oil.
Claims use since May 1, 1923.

Ser. No. 181,825. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CAROLINE RUTH FAJANS, New York, N. Y. Filed June 11, 1923.

In the Rue de la Paix of America
Carol Fayence

The words "Carol Fayence" is applicant's name written by her in French.
Particular description of goods.—Face Powder, Nourishing Cream, Cleansing Cream, Rouges, Compacts, Hand Lotions, Scalp Ointment, Liquid Powder, Toilet-Table Rouge (Cream Rouge), Face Pack, Eyebrow Pencils, Lip Stick, and Astringents.
Claims use since Apr. 17, 1923.

Ser. No. 181,834. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) INTERNATIONAL SILVER COMPANY, Meriden and Bridgeport, Conn. Filed June 11, 1923.

Jack and Jill

Particular description of goods.—Silver-Plated Spoons.
Claims use since May, 1923.

Ser. No. 181,886. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IDA GOLD, Richmond, Va. Filed June 12, 1923.

N.—F.

Particular description of goods.—A Preparation for the Treatment of Rheumatism, Indigestion, and Asthma.
Claims use since June 1, 1923.

Ser. No. 181,893. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PIERRE C. HYDE, doing business as The Hyde Drug Company, Massena, N. Y. Filed June 12, 1923.

Hyel

Particular description of goods.—Tonic and System Renovator.
Claims use since Aug. 1, 1922.

Ser. No. 181,897. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN T. KARDAS, doing business as Jay-Kay Chemical Company, Baltimore, Md. Filed June 12, 1923.



Particular description of goods.—Skin Cream, Headache Powder, and Liniment.
Claims use since Aug. 1, 1918.

Ser. No. 181,915. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SIERRA PACIFIC CANNING CO., San Francisco, Calif. Filed June 12, 1923.

PAGODA

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since Apr. 2, 1923.

Ser. No. 181,965. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JUDGE P. TEAGUE, Sevierville, Tenn. Filed June 13, 1923.

SMOKY

Particular description of goods.—Rheumatism Specific.
Claims use since on or about May 17, 1923.

Ser. No. 181,990. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THEODORE L. HERRODER, doing business as Essentialized Flower Oil Company, Toledo, Ohio. Filed June 14, 1923.

SURIENT

Particular description of goods.—Toilet Aromatic Oils, Face Powder, Complexion Creams, Toilet Water.
Claims use since September, 1922.

Ser. No. 181,991. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THEODORE L. HERRODER, doing business as Essentialized Flower Oil Company, Toledo, Ohio. Filed June 14, 1923.

Essentialized

Particular description of goods.—Toilet Aromatic Oils, Face Powder, Complexion Creams, Toilet Water.
Claims use since September, 1922.

Ser. No. 181,999. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY DALE KUHN, doing business as H. Dale Kuhn; H. Dale Kuhn Manufacturing Pharmacist; Kuhn Drug Company, and H. Dale Kuhn Laboratory, Shelby, Ohio. Filed June 14, 1923.

KUHN'S
HDK
H. Dale Kuhn
EPSOM SALTS
ORIGINATOR
COMPOUND
PILLS

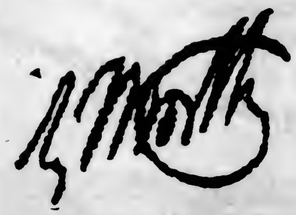
No claim is made to the words "Epsom Salts," "Originator," and "Compound Pills" apart from other features shown in the drawing.
Particular description of goods.—Epsom-Salts Pills.
Claims use since Feb. 13, 1923.

Ser. No. 182,002. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MICHAEL PACKMAN, Atlantic City, N. J. Filed June 14, 1923.



The word "Eggs" and the representation of the eggs is disclaimed apart from the other features of the mark.
Particular description of goods.—Eggs.
Claims use since Oct. 21, 1916.

Ser. No. 182,070. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIÉTÉ WORTH, Paris, France. Filed June 15, 1923.



The trade-mark is a facsimile of the handwriting of Charles Frederic Worth, the founder of the firm of Société Worth.
Particular description of goods.—Perfumes.
Claims use since Jan. 13, 1923.

Ser. No. 182,083. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BEYER-FREY CHEMICAL COMPANY, INC., Lancaster, Pa. Filed June 16, 1923.

BANG

Particular description of goods.—Preparation for Exterminating Insects.
Claims use since Feb. 28, 1923.

Ser. No. 182,110. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PABST CORPORATION, Milwaukee, Wis. Filed June 16, 1923.



The conventional lining indicates the color red.
Particular description of goods.—General Medicinal Tonic.
Claims use since June, 1889.

Ser. No. 182,219. (CLASS 45. BEVERAGES, NONALCOHOLIC.) E. J. O'BRIEN, doing business as Cresta Blanca Punch Co., also as E. J. O'Brien Company, San Francisco, Calif. Filed June 19, 1923.

CRESTA BLANCA

Particular description of goods.—Nonalcoholic Maltless Beverage Sold as a Soft Drink.
Claims use since Sept. 1, 1920.

Ser. No. 182,233. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BUSY BEE CANDY COMPANY, St. Louis, Mo. Filed June 20, 1923.

Lady Love Chocolates

The letters forming the trade-mark are black, each letter being bordered with gold.
Particular description of goods.—Candy—Namely, Chocolates.
Claims use since June 12, 1923.

Ser. No. 182,263. (CLASS 17. TOBACCO PRODUCTS.) SALVADOR RODRIGUEZ, New York, N. Y. Filed June 20, 1923.



The picture is fanciful.
Particular description of goods.—Cigars.
Claims use since about 1893.

Ser. No. 182,349. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SOLOMON LANGNER, New York, N. Y. Filed June 22, 1923.



Particular description of goods.—Coconut Fats for Food Purposes.
Claims use since Feb. 1, 1923.

Ser. No. 182,417. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HORLICK'S MALTED MILK COMPANY, Racine, Wis. Filed June 25, 1923.

Malt-X-trine

Particular description of goods.—Powdered Extracts of Grains Used as a Milk Modifier.
Claims use since May 11, 1923.

Ser. No. 182,426. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARINELLO COMPANY, La Crosse, Wis. Filed June 25, 1923.



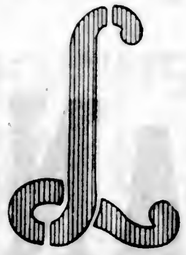
Particular description of goods.—Rouge and Face Powder.
Claims use since about June 1, 1919.

Ser. No. 182,580. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GERBER & Co., A. G., Thoune, Switzerland. Filed June 29, 1923.



No claim is made to the exclusive use of the wording appearing on the drawing except "Teddy Bear". The shading appearing on the drawing stands for green.
Particular description of goods.—Cheese.
Claims use since Jan. 31, 1923.

Ser. No. 182,620. (CLASS 15. OILS AND GREASES.) STERLING OIL COMPANY OF PENNSYLVANIA, Emlenton, Pa. Filed June 29, 1923.



STERLING

The symbol for the pound sterling is of a red color, although no specific disclaimer to the use of other articles is made.
Particular description of goods.—Illuminating Oils, Lubricating Oils, Lubricating Greases, Gasoline, Kerosene, and Crude-Petroleum Fuel Oil and Gas Oil.
Claims use since 1899.

Ser. No. 182,737. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAILEY PRODUCE CO. INC., Brockport, N. Y. Filed July 3, 1923.

400

Particular description of goods.—Fresh Fruits—Namely, Apples.
Claims use since Apr. 3, 1923.

Ser. No. 182,757. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LILLIE MILL COMPANY, Franklin, Tenn. Filed July 3, 1923.



Particular description of goods.—Self-Rising Flour.
Claims use since Mar. 15, 1923.

Ser. No. 182,938. (CLASS 37. PAPER AND STATIONERY.) SOCIETE ANONYME "CRAYONS CONTE", Regny and Paris, France. Filed July 7, 1923.

BICHETTE

Particular description of goods.—Crayons, Crayon Holders, Pencils, Penholders, Pens, Rubber Erasers, and Writing Paper.
Claims use since Sept. 15, 1910.

Ser. No. 182,948. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THOS. E. WILSON & CO., Chicago, Ill. Filed July 7, 1923.



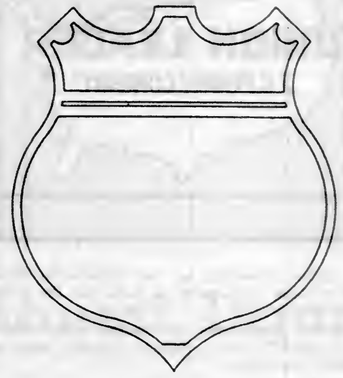
The figures "1.62" are disclaimed as a part of the trade-mark.
Particular description of goods.—Golf Balls.
Claims use since Aug. 22, 1921.

Ser. No. 182,949. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THOS. E. WILSON & CO., Chicago, Ill. Filed July 7, 1923.



Particular description of goods.—Golf Balls.
Claims use since Jan. 4, 1921.

Ser. No. 182,983. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE H. H. MILLER INDUSTRIES COMPANY, Canton, Ohio. Filed July 9, 1923.



Particular description of goods.—Bottle Filling and Capping Machines and Dairy Machinery—Namely, Aerators, Coolers, Heaters, Pasteurizers, Vats—and Parts and Fittings for Bottle Filling and Capping Machines and Dairy Machinery.
Claims use since June, 1917.

Ser. No. 183,264. (CLASS 31. FILTERS AND REFRIGERATORS.) JOSEPH ELKIN, Omaha, Nebr. Filed July 16, 1923.

Bilt-Rite
BUILT-IN AND PORTABLE
-REFRIGERATORS-
DESIGNED AND BUILT BY
JOSEPH ELKIN
OMAHA NEBR.

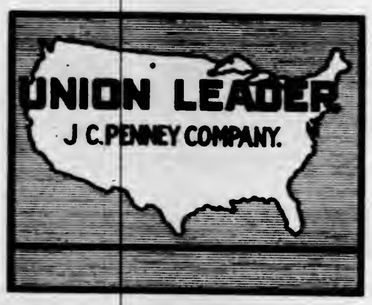
All descriptive matter except the words "Bilt Rite" and "Joseph Elkin" is hereby disclaimed.
Particular description of goods.—Refrigerators.
Claims use since May 15, 1922.

Ser. No. 183,326. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) C. A. WOOLSEY PAINT & COLOR COMPANY, Jersey City, N. J. Filed July 16, 1923.

CELLAL

Particular description of goods.—Enamel Paint.
Claims use since May 1, 1923.

Ser. No. 183,405. (CLASS 39. CLOTHING.) J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y. Filed July 18, 1923.



The lining appearing on the drawing in connection with the above trade-mark is made for the purpose of shading only.

Particular description of goods.—Men's and Boys' Ready-to-Wear Clothing—Namely, Overalls Made of Drill and Denim Materials.

Claims use since Apr. 7, 1920.

Ser. No. 183,444. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DOPTOGLOU BROS. OF N. Y., New York, N. Y. Filed July 19, 1923.

CHARIOT

Particular description of goods.—Cotton Piece Goods.

Claims use since June 21, 1923.

Ser. No. 183,530. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEW ENGLAND FISH COMPANY, Boston, Mass. Filed July 21, 1923.

BELLEANNA

Particular description of goods.—Canned Salmon.

Claims use since May 26, 1923.

Ser. No. 183,566. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JOAQUIN GARCIA, doing business as Bumble Bee Specialty Co., New York, N. Y. Filed July 23, 1923.



No claim is made to the word "Buzzer" apart from the mark shown on the drawing.

Particular description of goods.—A Noise-Making Toy—Namely, a Buzzer.

Claims use since May 15, 1923.

Ser. No. 183,687. (CLASS 38. PRINTS AND PUBLICATIONS.) THE BANKERS SUPPLY CO., Denver, Colo., and Chicago, Ill. Filed July 26, 1923.



Particular description of goods.—Publications Issued Weekly.

Claims use since July 6, 1923.

Ser. No. 183,688. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HARRY S. BIRD, Newark, N. J. Filed July 26, 1923.

Scratch

Particular description of goods.—A Parlor Game Composed of a Disk and a Rotating Pointer or Indicator.

Claims use since Apr. 19, 1923.

Ser. No. 183,714. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EARL MCKNIGHT, Pittsburgh, Pa. Filed July 26, 1923.

BISKBAR
TRADE MARK

No claim is made to the exclusive use of the words "Trade-Mark" except as the same appears in connection with the other features of the mark.

Particular description of goods.—Candy and Confections in the form of a Candy Block, Comprising a Center of Cream Filling, an Enveloping Layer of Baked Cake Dough, and an Outer Coating of Hard Chocolate.

Claims use since June 28, 1923.

Ser. No. 183,785. (CLASS 15. OILS AND GREASES.) LOUIS J. WILDE, Los Angeles, Calif. Filed July 27, 1923.

RED DEVIL



The lining for color on the drawing is intended to represent red.

Particular description of goods.—Lubricating Oil, Gasoline, Kerosene, and Sump Oil.

Claims use since July 18, 1923.

Ser. No. 183,807. (CLASS 10. FERTILIZERS.) HENRY J. TAUBERT, Brighton, Mass. Filed July 28, 1923.

FERTI-FLORA

Particular description of goods.—Liquid Fertilizers.

Claims use since January, 1901.

Ser. No. 183,926. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARTHUR L. JOHNSON CO. OF RHODE ISLAND, Providence, R. I. Filed Aug. 1, 1923.

Down East

Particular description of goods.—Canned Clams and Sardines.

Claims use since 1920.

Ser. No. 183,985. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE NATIONAL PAINT AND VARNISH COMPANY, Cleveland, Ohio. Filed Aug. 2, 1923.

PermAnAd

Particular description of goods.—Poster-Plant Paints, Varnishes, and Colors.

Claims use since Dec. 1, 1921.

Ser. No. 184,063. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WILLIAM CALDWELL, doing business as Rex Rubber & Novelty Co., New York, N. Y. Filed Aug. 4, 1923.

REX RUBBER & NOVELTY CO.

THE HOUSE OF BALLOONS

All wording is disclaimed apart from the mark shown on the drawing.

Particular description of goods.—Rubber Balloons, Rubber Dolls, and Rubber Squawkers.

Claims use since July 1, 1918.

Ser. No. 184,149. (CLASS 38. PRINTS AND PUBLICATIONS.) THOMAS A. PHILLIPS, Dayton, Ohio. Filed Aug. 6, 1923.

CIVIC VIRTUE

Particular description of goods.—A Monthly Magazine Devoted to Civic Affairs.

Claims use since July 2, 1923.

Ser. No. 184,150. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STETSON AND ELLISON COMPANY, Camden, Del. Filed Aug. 6, 1923.

S & E

Particular description of goods.—Tomato Purée, Apple Butter, and Canned Peaches, Tomatoes, and Sweet Potatoes.

Claims use since June 22, 1923.

Ser. No. 184,154. (CLASS 38. PRINTS AND PUBLICATIONS.) THE WABASH CABINET CO., Wabash, Ind. Filed Aug. 6, 1923.

Honest Injun

Particular description of goods.—A House Organ Published Periodically.

Claims use since June 1, 1923.

Ser. No. 184,221. (CLASS 15. OILS AND GREASES.) SWENEY GASOLINE & OIL CO., Peoria, Ill. Filed Aug. 8, 1923.



Sweney Gasoline & Oil Co.
Peoria, Illinois.

The words "Gasoline" and "Motor Oils," being descriptive of the goods, and the words "Peoria, Illinois," being geographical, are hereby disclaimed apart from the mark shown on the original drawing.

Particular description of goods.—Lubricating Oils and Gasoline.

Claims use since Jan. 1, 1913.

Ser. No. 184,231. (CLASS 39. CLOTHING.) BERKSON & MODJESKA, Chicago, Ill. Filed Aug. 9, 1923.



Particular description of goods.—Neckties.

Claims use since Mar. 20, 1923.

Ser. No. 184,232. (CLASS 39. CLOTHING.) LESTER C. BUSH, Columbus, Ohio. Filed Aug. 9, 1923.

CANVAK

Particular description of goods.—Fabric and Leather Work Gloves, Pants, Overalls, Men's Hats and Caps.
Claims use since June, 1923.

Ser. No. 184,242. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CHARLES L. GODFREY, Corona, N. Y. Filed Aug. 9, 1923.

ATTA BOY

Particular description of goods.—Tennis Rackets.
Claims use since Mar. 1, 1923.

Ser. No. 184,288. (CLASS 39. CLOTHING.) LITTLE FALLS MANUFACTURING COMPANY, New York, N. Y. Filed Aug. 10, 1923.

2-4-1

Particular description of goods.—Knitted Underwear for Children.
Claims use since on or about July 26, 1923.

Ser. No. 184,338. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) R. F. GOODLETT, Tupelo, Miss. Filed Aug. 11, 1923.

Kingsbattle

Particular description of goods.—Outdoor Games Played with Men Similar to Checkers and Chess.
Claims use since about October, 1922.

Ser. No. 184,366. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SCOTT MANUFACTURING COMPANY, Chicago, Ill. Filed Aug. 11, 1923.

Bilt-E-Z

Particular description of goods.—Toy Sectional Collapsible Building Units.
Claims use since Aug. 4, 1923.

Ser. No. 184,368. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ST. JOE VALLEY LINE CO., South Bend, Ind. Filed Aug. 11, 1923.

JOVALINE

Particular description of goods.—Fishing Lines.
Claims use since July 15, 1923.

Ser. No. 184,418. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) OPPENHEIM, OBERNDORF & CO., INC., also doing business as Franklin Manufacturing Company, Baltimore, Md. Filed Aug. 13, 1923.

RinkleTex

Particular description of goods.—Plain White, Dyed, or Printed Cotton Dress and Underwear Piece Goods.
Claims use since June 1, 1923.

Ser. No. 184,450. (CLASS 39. CLOTHING.) HOCHSCHILD, KOHN & CO., INC., Baltimore, Md. Filed Aug. 14, 1923.

Collegiate

Particular description of goods.—Corsets, Girdles, Dresses, Corset Waists, Brassières, Bandeaux; Ladies', Misses', and Girls' Silk, Linen, and Muslin Underwear.
Claims use since July 19, 1923.

Ser. No. 184,470. (CLASS 39. CLOTHING.) KOPS BROS., New York, N. Y. Filed Aug. 14, 1923.

Dahlia

Particular description of goods.—Corsets, Brassières, and Underwear of Textile Fabric for Women.
Claims use since July 16, 1923.

Ser. No. 184,504. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) URBAN A. KLIN, doing business as Klin Bros. Golf Mfg. Co., Homewood, Ill. Filed Aug. 15, 1923.

Klin Klub

The word "Klub" is disclaimed apart from the mark as shown on the drawing.
Particular description of goods.—Golf Clubs.
Claims use since July 1, 1923.

Ser. No. 184,516. (CLASS 39. CLOTHING.) MURRAY RABINOW, New York, N. Y. Filed Aug. 15, 1923.

THE MURRAY

Particular description of goods.—Men's Dress Shirts.
Claims use since July 15, 1923.

Ser. No. 184,518. (CLASS 39. CLOTHING.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Aug. 15, 1923.

Dukana

The mark consists of the word "Dukana."
Particular description of goods.—Women's, Children's, and Infants' Coats, Cloaks, Wraps, Capes, Suits, Costumes, Dresses, Waists, Skirts, and Hats.
Claims use since Apr. 14, 1923.

Ser. No. 184,519. (CLASS 39. CLOTHING.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Aug. 15, 1923.

Furrona

The trade-mark consists of the word "Furrona."
Particular description of goods.—Women's, Children's, and Infants' Coats, Cloaks, Wraps, Capes, Suits, Costumes, Dresses, Waists, Skirts, and Hats.
Claims use since Jan. 20, 1923.

Ser. No. 184,524. (CLASS 39. CLOTHING.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Aug. 15, 1923.

Lyona

Particular description of goods.—Women's, Children's, and Infants' Coats, Cloaks, Wraps, Capes, Suits, Costumes, Dresses, Waists, Skirts, and Hats.
Claims use since June 7, 1923.

Ser. No. 184,542. (CLASS 39. CLOTHING.) DONEMAR INCORPORATED, New York, N. Y. Filed Aug. 16, 1923.

DONEMAR

Particular description of goods.—Stockings.
Claims use since July 15, 1922.

Ser. No. 184,544. (CLASS 38. PRINTS AND PUBLICATIONS.) EL COMERCIO PUBLISHING CORPORATION, New York, N. Y. Filed Aug. 16, 1923.

INTERNATIONAL MERCHANDISING

Particular description of goods.—A Monthly Magazine.
Claims use since Aug. 8, 1923.

Ser. No. 184,557. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MEI REN COMPANY, INC., Shanghai, China. Filed Aug. 16, 1923.

MEI REN

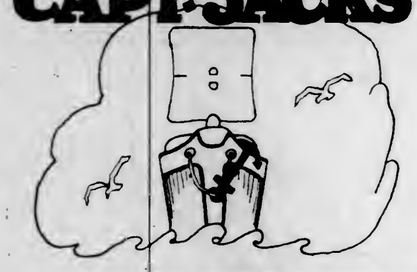
The phrase "Mei Ren" is Chinese for American "Friendship." The Chinese characters shown on the mark spell "Mei Ren."

Particular description of goods.—Games Played with Pieces Somewhat Similar to Dominoes.

Claims use since Sept. 1, 1922.

Ser. No. 184,581. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PAUL JACKSON BARNARD, doing business as Paul Jackson Barnard Company, Los Angeles, Calif. Filed Aug. 17, 1923.

CAPT. JACKS

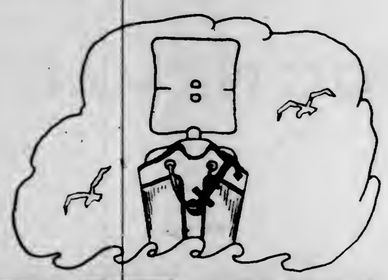


The representation of the goods is disclaimed apart from the mark as shown on the drawing.

Particular description of goods.—Toys—Namely, Miniature Ships.

Claims use since July 31, 1923.

Ser. No. 184,582. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PAUL JACKSON BARNARD, doing business as Paul Jackson Barnard Company, Los Angeles, Calif. Filed Aug. 17, 1923.



SAND SHIP

The words "Sand Ship" and the representation of the goods are disclaimed apart from the mark as shown on the drawings.

Particular description of goods.—Toys—Namely, Miniature Ships.

Claims use since July 31, 1923.

Ser. No. 184,604. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DINGFELDER & BALISH, New York, N. Y. Filed Aug. 17, 1923.

D&B

Particular description of goods.—Fresh Vegetables—Namely, Onions.

Claims use since July 2, 1923.

Ser. No. 184,613. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) INTERSTATE SHADE CLOTH CO., Hoboken, N. J. Filed Aug. 17, 1923.

DUROSHADE

Trade-mark consists of the word "Duroshade."

Particular description of goods.—Shade Cloth of Sized and Painted Fabric.

Claims use since June 1, 1922.

Ser. No. 184,697. (CLASS 38. PRINTS AND PUBLICATIONS.) BERNHARD ULMANN CO., INC., New York, N. Y. Filed Aug. 18, 1923.

BEAR BRAND

No claim is made to the word "Brand" apart from the mark shown.

Particular description of goods.—Instruction Books and Similar Publications Relating to Art Needlework—Namely, Lesson Books and Patterns for Art Needlework; Also Instructions and Lessons on Art Needlework Issued in the Form of Books, Sheets, or Leaflets Published from Time to Time.

Claims use since about 1900.

Ser. No. 184,708. (CLASS 39. CLOTHING.) BARRON, ANDERSON CO., Boston, Mass. Filed Aug. 20, 1923.

BAT-AROUND

Trade-mark "Bat-Around."

Particular description of goods.—Men's Suits and Overcoats.

Claims use since Feb. 1, 1923.

Ser. No. 184,711. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CARRIER CHEMICAL COMPANY, Charleston, W. Va. Filed Aug. 20, 1923.

KRISKOLOID

Particular description of goods.—Polishing Material for Automobiles and Highly-Finished Surfaces of All Kinds.

Claims use since June 29, 1923.

Ser. No. 184,801. (CLASS 38. PRINTS AND PUBLICATIONS.) ARTHUR N. SHELDON Jr., Providence, R. I. Filed Aug. 21, 1923.

THE UTILITARIAN

Particular description of goods.—A House Organ Published Quarterly.

Claims use since April, 1922.

Ser. No. 184,809. (CLASS 38. PRINTS AND PUBLICATIONS.) AUSTIN PUBLISHING COMPANY, Chicago, Ill. Filed Aug. 22, 1923.

Austin Topics



GREATER AUSTIN TRIBUNE

Particular description of goods.—A Weekly Publication.

Claims use since June 22, 1923.

Ser. No. 184,811. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. E. BOOTH CO., San Francisco, Calif. Filed Aug. 22, 1923.

FEBCO

Particular description of goods.—Canned Fruit.

Claims use since September, 1921.

Ser. No. 184,812. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE K. BROWN COMPANY, INC., Chattanooga, Tenn. Filed Aug. 22, 1923.



Particular description of goods.—Candy.

Claims use since Aug. 23, 1922.

Ser. No. 184,818. (CLASS 45. BEVERAGES, NONALCOHOLIC.) JOHN FRIEDRICH, Philadelphia, Pa. Filed Aug. 22, 1923.



No claim is made to the words "Sparkling" and "Extra Dry" apart from the mark shown on the drawing.

Particular description of goods.—Ginger Ale, Sarsaparilla, and Root Beer.

Claims use since Feb. 1, 1922.

Ser. No. 184,870. (CLASS 38. PRINTS AND PUBLICATIONS.) PUBLIC LEDGER COMPANY, Philadelphia, Pa. Filed Aug. 22, 1923.

THE CROSSING COP

Particular description of goods.—Title for Cartoons.

Claims use since Nov. 6, 1922.

Ser. No. 184,871. (CLASS 38. PRINTS AND PUBLICATIONS.) PUBLIC LEDGER COMPANY, Philadelphia, Pa. Filed Aug. 22, 1923.

THE HUMAN ZOO

Particular description of goods.—Title for Cartoons.

Claims use since June 26, 1922.

Ser. No. 184,874. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WILLIAM A. SPINKS & COMPANY, Chicago, Ill. Filed Aug. 22, 1923.

WASCO GREEN

The word "Green" is disclaimed apart from the mark shown in the drawings. The letters, "Wasco" constitute the initials of the corporate name of the applicant.

Particular description of goods.—Billiard Cushions.

Claims use since July 20, 1923.

Ser. No. 184,880. (CLASS 39. CLOTHING.) RICHARD MUNSEY WATKINS, doing business as Watkins Hosiery Mills, Chattanooga, Tenn. Filed Aug. 22, 1923.

MODERN GIRL

Particular description of goods.—Ladies' Silk Hosiery.

Claims use since Mar. 27, 1923.

Ser. No. 184,931. (CLASS 39. CLOTHING.) THE BERT STERN COMPANY, Toledo, Ohio. Filed Aug. 24, 1923.



Particular description of goods.—Women's Waists and Dresses.
Claims use since Aug. 4, 1923.

Ser. No. 184,934. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE CALICO PRINTERS' ASSOCIATION, LIMITED, Manchester, England. Filed Aug. 24, 1923.

CHIFFONELLE

Applicant does not claim any right to the exclusive use of the word "Chiffon."
Particular description of goods.—Cotton Piece Goods.
Claims use since November, 1917.

Ser. No. 185,019. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HALE BROS., INC., San Francisco, Calif. Filed Aug. 27, 1923.

IRON THREAD

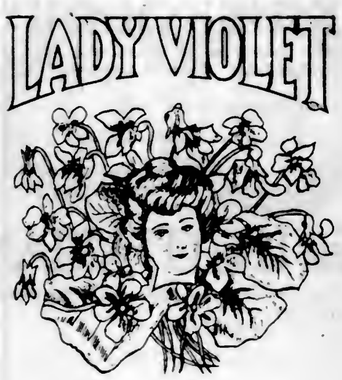
Particular description of goods.—Towels, Sheets, Pillowcases, Bedspreads, Crash Toweling, and Similar White Yardage Goods.
Claims use since Oct. 17, 1922.

Ser. No. 185,022. (CLASS 39. CLOTHING.) A. S. KATZENBERG & BRO., Baltimore, Md. Filed Aug. 27, 1923.

Merrygarden

Particular description of goods.—Aprons and Frocks.
Claims use since Aug. 23, 1923.

Ser. No. 185,029. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. B. MARGOLIES WHOLESALE GROCER CO., East St. Louis, Ill. Filed Aug. 27, 1923.



The picture shown in drawing is fanciful.
Particular description of goods.—Canned Vegetables.
Claims use since Jan. 1, 1923.

Ser. No. 185,030. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. B. MARGOLIES WHOLESALE GROCER CO., East St. Louis, Ill. Filed Aug. 27, 1923.



The picture shown in drawing is fanciful.
Particular description of goods.—Canned Vegetables.
Claims use since Jan. 1, 1923.

Ser. No. 185,057. (CLASS 38. PRINTS AND PUBLICATIONS.) THE STANDARD CORPORATION, Chicago, Ill. Filed Aug. 27, 1923.

RETAIL REVIEW

Particular description of goods.—A Printed Publication Issued Weekly as an Advertising Service for Retail Merchants Dealing Particularly in Dry Goods and Wearing Apparel.
Claims use since Mar. 5, 1923.

Ser. No. 185,100. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRIE W. WHITE, Cleveland, Ohio. Filed Aug. 28, 1923.



Particular description of goods.—Chewing Gum.
Claims use since Aug. 1, 1923.

Ser. No. 185,103. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. E. BOOTH CO., San Francisco, Calif. Filed Aug. 29, 1923.

EL PRADO

Particular description of goods.—Canned Fish.
Claims use since July 20, 1923.

Ser. No. 185,173. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHAS. HENRY BUTLER, doing business as Blenheim Club Bottling Co., Blenheim, S. C. Filed Aug. 30, 1923.

Blenheim Club

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Dec. 3, 1920.

Ser. No. 185,220. (CLASS 39. CLOTHING.) HANES HOSIERY MILLS CO., Winston-Salem, N. C. Filed Aug. 31, 1923.

APPLE BLOSSOM

Particular description of goods.—Hosiery.
Claims use since July 23, 1923.

Ser. No. 185,226. (CLASS 39. CLOTHING.) SYDNEY MOSES, New York, N. Y. Filed Aug. 31, 1923.

PIGEONETTE

Particular description of goods.—Dresses.
Claims use since June 5, 1923.

Ser. No. 185,227. (CLASS 39. CLOTHING.) SYDNEY MOSES, New York, N. Y. Filed Aug. 31, 1923.

PUCKERUP

Particular description of goods.—Dresses.
Claims use since May 15, 1923.

Ser. No. 185,236. (CLASS 38. PRINTS AND PUBLICATIONS.) LUDO L. ZIMMER, doing business as The Dependable Information Bureau, Detroit, Mich. Filed Aug. 31, 1923.

KARDPAK

Particular description of goods.—Road Maps.
Claims use since Feb. 17, 1923.

Ser. No. 185,271. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) VULCAN RECORD CORPORATION, New York, N. Y. Filed Sept. 1, 1923.

Junior

Particular description of goods.—Sound Records for Phonographs and Talking Machines.
Claims use since on or about June 1, 1923.

Ser. No. 185,376. (CLASS 39. CLOTHING.) PERMAN'S GOWNS, INC., New York, N. Y. Filed Sept. 6, 1923.



Particular description of goods.—Ladies' Wraps and Gowns.
Claims use since Sept. 1, 1923.

Ser. No. 185,408. (CLASS 39. CLOTHING.) BRITISH INTERNATIONAL CORPORATION, New York, N. Y. Filed Sept. 7, 1923.

RIPLEX

Particular description of goods.—Hosiery.
Claims use since Nov. 1, 1922.

Ser. No. 185,666. (CLASS 38. PRINTS AND PUBLICATIONS.) NATIONAL ASSOCIATION OF MARBLE DEALERS, Buffalo, N. Y. Filed Sept. 11, 1923.

THROVGH THE AGES

Particular description of goods.—A Monthly Magazine.
Claims use since May 20, 1923.

Ser. No. 185,708. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) INTERNATIONAL MFG. CO., Phillips, Me. Filed Sept. 12, 1923.

Tip Top

Particular description of goods.—Wooden Toothpicks.
Claims use since March, 1911.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

NOVEMBER 6, 1923.

175,284. TOILET PAPER AND PAPER TOWELS. ALBANY PERFORATED WRAPPING PAPER CO., Albany, N. Y.
Filed June 28, 1923. Serial No. 182,529. PUBLISHED AUGUST 21, 1923.

175,285. BOND PAPER, LEDGER PAPER, AND WRITING PAPER. GILBERT PAPER CO., Menasha, Wis.
Filed June 25, 1923. Serial No. 182,411. PUBLISHED AUGUST 21, 1923.

175,286. TOILET PAPER. FORT HOWARD PAPER COMPANY, Green Bay, Wis.
Filed June 15, 1923. Serial No. 182,049. PUBLISHED AUGUST 21, 1923.

175,287. BOOKS OF BLANK FORMS, INCLUDING INVENTORY BOOKS, APPRAISAL BOOKS, AND AUTOMOBILE TIRE-RECORD BOOKS. BROOKS-WILBOR-PARSONS COMPANY, Cleveland, Ohio.
Filed October 2, 1919. Serial No. 123,328. PUBLISHED AUGUST 14, 1923.

175,288. MOVING PICTURES AND ANIMATED DRAWINGS. MAX FLEISCHER, New York, N. Y.
Filed May 26, 1921. Serial No. 148,266. PUBLISHED NOVEMBER 7, 1922.

175,289. COFFEE. W. T. WOOLFOLK, doing business as Woolfolk Coffe Company, Lexington, Ky.
Filed May 17, 1921. Serial No. 147,856. PUBLISHED AUGUST 14, 1923.

175,290. FILES AND RASPS. NICHOLSON FILE COMPANY, Providence, R. I.
Filed May 1, 1920. Serial No. 131,918. PUBLISHED JANUARY 30, 1923.

175,291. CANDIES. MAMIE RINGE, Philadelphia, Pa.
Filed October 25, 1921. Serial No. 154,570. PUBLISHED AUGUST 14, 1923.

175,292. QUARTERLY PUBLICATION. THE DELTA SIGMA PHI FRATERNITY, New York, N. Y., and Washington, D. C.
Filed October 4, 1921. Serial No. 153,715. PUBLISHED JUNE 12, 1923.

175,293. DESK SETS, PENS, FOUNTAIN PENS, LEAD PENCILS, STEEL-BLADE ERASERS, LETTER OPENERS, WRITING PAPER AND ENVELOPES, AND DIARIES. GORHAM MANUFACTURING COMPANY, Providence, R. I.
Filed August 27, 1921. Serial No. 152,245. PUBLISHER AUGUST 14, 1923.

175,294. CANNED SHRIMP. GRAND LAKE & GULF SHRIMP COMPANY, Westwego, La.
Filed December 15, 1921. Serial No. 156,740. PUBLISHED AUGUST 14, 1923.

175,295. OIL PAINT, READY-MIXED AND PASTE; LINSEED OILS, FLOOR WAX, FLOOR AND FURNITURE POLISH, VARNISHES, PUTTY, WHITE LEAD, AND RED LEAD. GEORGE M. BUDEKE, Baltimore, Md.
Filed November 5, 1921. Serial No. 155,044. PUBLISHED FEBRUARY 13, 1923.

175,296. ALMONDS IN THE SHELL AND UNSHELLED. CALIFORNIA ALMOND GROWERS EXCHANGE, San Francisco, Calif.
Filed December 22, 1921. Serial No. 157,024. PUBLISHED MAY 8, 1923.

175,297. NAILS. UNITED SHOE MACHINERY CORPORATION, Paterson, N. J., and Boston, Mass.
Filed June 14, 1923. Serial No. 182,024. PUBLISHED AUGUST 14, 1923.

175,298. TRACING PAPER. NEW YORK BLUE PRINT PAPER CO., New York, N. Y.
Filed June 12, 1923. Serial No. 181,906. PUBLISHED AUGUST 21, 1923.

175,299. WRITING PAPER. FOX RIVER PAPER COMPANY, Appleton, Wis.
Filed June 8, 1923. Serial No. 181,688. PUBLISHED AUGUST 14, 1923.

175,300. CASTERS. GRENNAN CAKE CORPORATION, Detroit, Mich.
Filed June 6, 1923. Serial No. 181,593. PUBLISHED AUGUST 14, 1923.

175,301. WRITING TABLETS. BEDSOLE-COLVIN DRUG CO. INC., Mobile, Ala.
Filed June 4, 1923. Serial No. 181,510. PUBLISHED AUGUST 14, 1923.

175,302. SHREDDED TIN FOIL FOR CHRISTMAS-TREE AND OTHER DECORATIVE PURPOSES. UNITED STATES FOIL COMPANY, Louisville, Ky.
Filed July 15, 1922. Serial No. 166,964. PUBLISHED AUGUST 21, 1923.

175,303. TOOL STEEL. DETROIT ALLOY STEEL COMPANY, Detroit, Mich.
Filed July 7, 1922. Serial No. 166,554. PUBLISHED AUGUST 14, 1923.

175,304. CHILI PEPPER AND CHILI POWDER. CALIFORNIA AROMA CO., Los Angeles, Calif.
Filed June 15, 1922. Serial No. 165,527. PUBLISHED AUGUST 14, 1923.

175,305. GLOVES. PINCUS & OTTO, Hamburg, Germany.
Filed May 17, 1922. Serial No. 164,001. PUBLISHED AUGUST 14, 1923.

175,306. SARATOGA POTATO CHIPS, MACARONI, EGG NOODLES, AND SPAGHETTI. ALEC KLEIN, doing business as F. L. Klein Noodle Co., Chicago, Ill.
Filed May 1, 1922. Serial No. 163,154. PUBLISHED AUGUST 14, 1923.

175,307. ANIMATED-FIGURE TOYS. SELRITE PRODUCTS INC., New York, N. Y.
Filed April 14, 1922. Serial No. 162,318. PUBLISHED AUGUST 21, 1923.

175,308. GALVANIZING. DIAMOND EXPANSION BOLT CO., New York, N. Y.
Filed April 6, 1922. Serial No. 161,822. PUBLISHED AUGUST 14, 1923.

175,309. POCKET CALCULATING MACHINES. RUDOLFO HUBER, Nashville, Tenn.
Filed March 7, 1922. Serial No. 160,288. PUBLISHED AUGUST 21, 1923.

175,310. NECKTIES. GUEST NECKWEAR CO., INC., Rochester, N. Y.
Filed February 17, 1922. Serial No. 159,461. PUBLISHED AUGUST 14, 1923.

175,311. FILES. W. E. THAYER COMPANY, INC.; Mount Vernon, N. Y.
Filed January 11, 1922. Serial No. 157,781. PUBLISHED AUGUST 14, 1923.

175,312. RAISINS AND CANDY. CALIFORNIA ASSOCIATED RAISIN CO., Fresno, Calif., now by change of name Sun Maid Raisin Growers, Fresno, Calif., a Corporation of California.
Filed January 11, 1922. Serial No. 157,758. PUBLISHED AUGUST 14, 1923.

175,313. ALMONDS, SHELLED AND UNSHELLED, PLAIN, SALTED, AND CANDIED. CALIFORNIA ALMOND GROWERS EXCHANGE, San Francisco, Calif.
Filed December 22, 1921. Serial No. 157,025. PUBLISHED MAY 8, 1923.

175,314. SHEETS AND PILLOWCASES. B. B. & R. KNIGHT, INC., Providence, R. I., and New York, N. Y.
Filed June 2, 1923. Serial No. 181,489. PUBLISHED AUGUST 7, 1923.

175,315. PIECE GOODS MADE OF SILK. GOLDING FABRICS CORPORATION, New York, N. Y.
Filed May 26, 1923. Serial No. 181,182. PUBLISHED AUGUST 14, 1923.

175,316. WRITING, BOND, AND LEDGER PAPER. PLANT, THEIS & GOULD PAPER COMPANY, Chicago, Ill.
Filed May 25, 1923. Serial No. 181,147. PUBLISHED AUGUST 21, 1923.

175,317. TYMPAN PAPER. PLANT, THEIS & GOULD PAPER COMPANY, Chicago, Ill.
Filed May 25, 1923. Serial No. 181,146. PUBLISHED AUGUST 21, 1923.

175,318. BINDERS FOR BOOKS, PAMPHLETS, AND PAPERS. WEBER & MCCREA, Los Angeles, Calif.
Filed May 22, 1923. Serial No. 180,996. PUBLISHED AUGUST 21, 1923.

175,319. SAWS. EDI F. GOLDBERG, doing business as Lewgold Imports, Syracuse, N. Y.
Filed May 22, 1923. Serial No. 180,977. PUBLISHED AUGUST 21, 1923.

175,320. WOMEN'S COTTON TEXTILE UNDERGARMENTS. ABRAHAM GUSSOW, doing business as A. Gussow & Co., New York, N. Y.
Filed May 21, 1923. Serial No. 180,929. PUBLISHED AUGUST 14, 1923.

175,321. WOMEN'S COTTON TEXTILE UNDERGARMENTS. ABRAHAM GUSSOW, doing business as A. Gussow & Co., New York, N. Y.
Filed May 21, 1923. Serial No. 180,928. PUBLISHED AUGUST 14, 1923.

175,322. FOLDERS, CARDS, GUIDES, STATIONERY, GUIDE TABS, AND INDEXING AND FILING DEVICES AND SYSTEMS. UNITED BUSINESS EQUIPMENT CO., Boston, Mass.
Filed May 19, 1923. Serial No. 180,910. PUBLISHED AUGUST 21, 1923.

175,323. WRITING PADS OF THAT TYPE IN WHICH THE WRITING MAY BE OBLITERATED. RAB ROTHSCHILD, doing business as Everite Novelty Company, New York, N. Y.
Filed May 18, 1923. Serial No. 180,812. PUBLISHED AUGUST 14, 1923.

175,324. DOOR STOPS. JOHN R. EMERY, Wakefield, Mass.
Filed May 18, 1923. Serial No. 180,794. PUBLISHED AUGUST 14, 1923.

175,325. WINDOW AND DOOR WIRE SCREENS. HIPOLITO SCREEN & SASH CO., Los Angeles, Calif.
Filed May 17, 1923. Serial No. 180,764. PUBLISHED AUGUST 14, 1923.

175,326. TOILET PAPER, PAPER NAPKINS, PAPER TOWELS, AND PAPER TABLECLOTHS. FORT HOWARD PAPER COMPANY, Green Bay, Wis.
Filed May 17, 1923. Serial No. 180,758. PUBLISHED AUGUST 14, 1923.

175,327. INKWELL BASES, SPONGE CUPS, DESK PADS, PEN TRAYS, PENCIL TRAYS, PAPER-CLIP TRAYS, CALENDAR STANDS, MEMO PADS, CARD TRAYS, AND LETTER TRAYS. THE L. D. SCHROT COMPANY, Akron, Ohio.
Filed May 16, 1923. Serial No. 180,725. PUBLISHED AUGUST 14, 1923.

175,328. THRASHING MACHINES. WOOD BROTHERS THRESHER COMPANY, Des Moines, Iowa.
Filed May 8, 1923. Serial No. 180,350. PUBLISHED AUGUST 14, 1923.

175,329. INTERNAL-COMBUSTION MOTORS AND INTERNAL-COMBUSTION MOTORS FOR MOTORCYCLES, RUNABOUTS, AND OTHER VEHICLES. MOTOSACOCHE SOCIÉTÉ ANONYME, Geneva, Switzerland.
Filed May 8, 1923. Serial No. 180,340. PUBLISHED AUGUST 14, 1923.

175,330. CONVEYER CHAINS FOR LIQUIDS. SOCIÉTÉ ANONYME DES ELEVATEURS DE LIQUIDES "CHAINE-HELICE" BESSONNET-FAVRE, Chatellerault, France.
Filed May 7, 1923. Serial No. 180,305. PUBLISHED AUGUST 14, 1923.

175,331. CANNED FISH, FRUITS, AND VEGETABLES. R. E. COTTER CO., San Francisco, Calif.
Filed May 5, 1923. Serial No. 180,209. PUBLISHED AUGUST 14, 1923.

175,332. CASEMENT-WINDOW SUPPORTS. VINCENT WHITNEY COMPANY, San Francisco, Calif.
Filed May 2, 1923. Serial No. 180,097. PUBLISHED AUGUST 14, 1923.

175,333. PORTABLE SELF-PROPELLED CRANES OR DERRICKS. MOORE BROTHERS, Chicago, Ill.
Filed May 2, 1923. Serial No. 180,077. PUBLISHED AUGUST 14, 1923.

175,334. SPORT CLOTHES FOR WOMEN—NAMELY, SPORT COATS, SPORT SUITS, AND SPORT JACKETS. DEL MONTE-HICKEY, New York, N. Y.
Filed January 5, 1923. Serial No. 174,202. PUBLISHED JULY 10, 1923.

175,335. WOMEN'S SHIRTS, ALMOST IDENTICAL WITH SPORT SHIRTS FOR MEN, WITH NECESSARY MODIFICATIONS TO ADAPT IT TO THE FEMALE FIGURE. M. E. SMITH & CO., INC., Omaha, Nebr.
Filed December 29, 1922. Serial No. 173,986. PUBLISHED AUGUST 14, 1923.

175,336. CERTAIN NAMED FILING CABINETS AND OFFICE FURNITURE. LEVEY PRINTING COMPANY, Indianapolis, Ind.
Filed December 18, 1922. Serial No. 173,507. PUBLISHED AUGUST 14, 1923.

175,337. LEVELS. THE STANLEY WORKS, New Britain, Conn.
Filed November 20, 1922. Serial No. 172,297. PUBLISHED AUGUST 21, 1923.

175,338. PRINTING AND WRITING PAPER. CHICAGO PAPER COMPANY, Chicago, Ill.
Filed November 10, 1922. Serial No. 171,786. PUBLISHED AUGUST 21, 1923.

175,339. SMOKED PORK PRODUCTS. ROHE & BROTHER, New York, N. Y.
Filed November 7, 1922. Serial No. 171,708. PUBLISHED AUGUST 14, 1923.

175,340. ELECTRIC WATT-HOUR METERS. SEWICKLEY ELECTRIC MANUFACTURING COMPANY, Sewickley, Pa.
Filed November 3, 1922. Serial No. 171,554. PUBLISHED FEBRUARY 13, 1923.

175,341. COTTON PIECE GOODS. EDWIN E. BERLINER & CO., New York, N. Y.
Filed November 1, 1922. Serial No. 171,446. PUBLISHED AUGUST 14, 1923.

175,342. THIN SOFT PAPER SUITABLE FOR MAKING NUMEROUS COPIES. H. P. ANDREWS PAPER COMPANY, New York, N. Y.
Filed October 31, 1922. Serial No. 171,407. PUBLISHED AUGUST 21, 1923.

175,343. INDEX BRISTOL PAPER. H. P. ANDREWS PAPER COMPANY, New York, N. Y.
Filed October 31, 1922. Serial No. 171,405. PUBLISHED AUGUST 21, 1923.

175,344. CANNED RIPE OLIVES AND CANNED FISH. THE CURTIS CORPORATION, Wilmington, Del., and Long Beach, Calif.
Filed October 28, 1922. Serial No. 171,305. PUBLISHED AUGUST 14, 1923.

175,345. TEA. TAO TEA COMPANY, INC., New York, N. Y.
Filed October 27, 1922. Serial No. 171,292. PUBLISHED AUGUST 14, 1923.

175,346. JAMS. THE J. C. FORKNER FIG GARDENS, INCORPORATED, Fresno, Calif.
Filed October 23, 1922. Serial No. 171,071. PUBLISHED AUGUST 14, 1923.

175,347. CHOCOLATE AND CANDIES. HENRY R. HOEFLER, Astoria, Oreg., and San Francisco, Calif.
Filed September 29, 1922. Serial No. 170,107. PUBLISHED AUGUST 14, 1923.

175,348. COPPER ALLOY STEEL. INLAND STEEL COMPANY, Chicago, Ill.
Filed September 23, 1922. Serial No. 169,856. PUBLISHED AUGUST 14, 1923.

175,349. CANNED VEGETABLES. EPHRAIM SANITARY CANNING COMPANY, Ephraim, Utah.
Filed August 25, 1922. Serial No. 168,674. PUBLISHED AUGUST 14, 1923.

175,350. LEDGER PAPER. H. P. ANDREWS PAPER COMPANY, New York, N. Y.
Filed August 3, 1922. Serial No. 167,757. PUBLISHED AUGUST 21, 1923.

175,351. BOND PAPER. H. P. ANDREWS PAPER COMPANY, New York, N. Y.
Filed August 3, 1922. Serial No. 167,754. PUBLISHED AUGUST 21, 1923.

175,352. INDEX BRISTOL PAPER. H. P. ANDREWS PAPER COMPANY, New York, N. Y.
Filed August 3, 1922. Serial No. 167,753. PUBLISHED AUGUST 21, 1923.

175,353. VESTS, BLOOMERS, KNICKERBOCKERS, DRAWERS, UNION SUITS, COMBINATIONS, ENVELOPE CHEMISE, CORSET COVERS, NIGHTGOWNS, BATHING SUITS, PYJAMAS, MADE OF KNITTED AND TEXTILE MATERIALS. VANITY FAIR SILK MILLS, Reading, Pa.
Filed July 19, 1922. Serial No. 167,109. PUBLISHED AUGUST 14, 1923.

175,354. FOUNTAIN PENS, PENHOLDERS, PENCILS, LEAD MINE PENCILS, BLOTTERS, PEN BOWLS. HEIDELBERGER FEDERHALTER-FABRIK KOCH, WEBER & CO. A.-G., Heidelberg, Germany.
Filed March 30, 1923. Serial No. 178,340. PUBLISHED AUGUST 21, 1923.

175,355. PENHOLDERS AND FOUNTAIN PENS. HEIDELBERGER FEDERHALTER-FABRIK KOCH, WEBER & CO. A.-G., Heidelberg, Germany.
Filed March 30, 1923. Serial No. 178,339. PUBLISHED AUGUST 21, 1923.

175,356. COVER PAPER. PENINSULAR PAPER COMPANY, Ypsilanti, Mich.
Filed March 29, 1923. Serial No. 178,279. PUBLISHED AUGUST 21, 1923.

175,357. COFFEE. THE OHIO VALLEY COFFEE CO., Portsmouth, Ohio.
Filed March 29, 1923. Serial No. 178,270. PUBLISHED AUGUST 14, 1923.

175,358. TOILET PAPER. INTERLAKE TISSUE MILLS CO., LTD., Merritton, Ontario, Canada.
Filed March 26, 1923. Serial No. 178,043. PUBLISHED AUGUST 14, 1923.

175,359. ATHLETIC UNION SUITS OF TEXTILE FABRIC FOR MEN, BOYS, AND CHILDREN. CATAMOUNT MANUFACTURING CO. INC., Bennington, Vt.
Filed March 22, 1923. Serial No. 177,831. PUBLISHED AUGUST 14, 1923.

175,360. CANDIES. STEPHEN F. WHITMAN & SON, INCORPORATED, Philadelphia, Pa.
Filed March 17, 1923. Serial No. 177,642. PUBLISHED AUGUST 14, 1923.

175,361. MEN'S SHIRTS. MILK & KASS, New York, N. Y.
Filed March 14, 1923. Serial No. 177,449. PUBLISHED AUGUST 14, 1923.

175,362. WEARING APPAREL—NAMELY, DRESSES FOR WOMEN. THE TAILORED WOMAN, INC., New York, N. Y.
Filed March 8, 1923. Serial No. 177,148. PUBLISHED AUGUST 14, 1923.

175,363. MEN'S OVERCOATS AND SUITS IN ONE, TWO, AND THREE PIECE GARMENTS. WOLLNER & SMITH, New York, N. Y.
Filed March 6, 1923. Serial No. 177,060. PUBLISHED AUGUST 14, 1923.

175,364. HOSIERY. ELIZABETH CITY HOSIERY CO. INC., Elizabeth City, N. C.
Filed March 3, 1923. Serial No. 176,888. PUBLISHED AUGUST 14, 1923.

175,365. DRESSES, COSTUMES, AND GOWNS. DICKES, BLOCK AND ABBEY, New York, N. Y.
Filed February 24, 1923. Serial No. 176,538. PUBLISHED AUGUST 14, 1923.

175,366. EXCAVATING, ELEVATING, AND CONVEYING MACHINERY. THE JEFFREY MANUFACTURING CO., Columbus, Ohio.
Filed February 20, 1923. Serial No. 176,347. PUBLISHED AUGUST 21, 1923.

175,367. COFFEE. RIDENOUR-BAKER GROCERY COMPANY, Kansas City, Mo.
Filed February 17, 1923. Serial No. 176,218. PUBLISHED AUGUST 14, 1923.

175,368. COFFEE. BUENA V. JEAN, doing business as W. F. D. Jean, Baltimore, Md.
Filed February 14, 1923. Serial No. 176,026. PUBLISHED AUGUST 14, 1923.

175,369. CANNED CITROUS FRUITS, SUCH AS GRAPEFRUIT. FLORIDA CITRUS EXCHANGE, Tampa, Fla.
Filed February 8, 1923. Serial No. 175,719. PUBLISHED AUGUST 14, 1923.

175,370. TABLE GAMES. GEORGE W. SHEPPARD, San Francisco, Calif.
Filed January 27, 1923. Serial No. 175,217. PUBLISHED AUGUST 21, 1923.

175,371. NUT BUTTER. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich.
Filed January 25, 1923. Serial No. 175,057. PUBLISHED AUGUST 14, 1923.

175,372. TEAS AND COFFEES; TEA AND COFFEE EXTRACTS, BOTH DRY AND LIQUID; AND TEA AND COFFEE SUBSTITUTES. SOCIETE ANONYME FABRIQUES DE PRODUITS DE CHIMIE ORGANIQUE DE LAIRE, Isy, France.
Filed January 6, 1923. Serial No. 174,269. PUBLISHED AUGUST 14, 1923.

175,373. LADIES' FURS—VIZ, CAPES, COATS, WRAPS, AND NECK PIECES. ROSENBERG BROS., New York, N. Y.
Filed April 6, 1923. Serial No. 178,675. PUBLISHED AUGUST 14, 1923.

175,374. MOLDING COMPOSITIONS CONTAINING RESINOUS INGREDIENTS. INDUSTRIAL MOLDED MATERIALS COMPANY, North Tonawanda, N. Y., assignor to Durez Company, Inc., a Corporation of New York.
Filed July 25, 1922. Serial No. 167,353. PUBLISHED AUGUST 28, 1923.

175,375. TOOLS AND APPLIANCES FOR READJUSTING, REMOVING, REPAIRING, AND REPLACING PARTS AND PORTIONS OF AUTOMOTIVE VEHICLES, ETC. LOUIS SCHWAB, doing business as Stevens & Co., New York, N. Y.
Filed August 28, 1922. Serial No. 168,806. PUBLISHED AUGUST 21, 1923.

175,376. BICYCLES. EMBLEM MANUFACTURING COMPANY, Angola, N. Y.
Filed September 7, 1922. Serial No. 169,160. PUBLISHED AUGUST 28, 1923.

175,377. HOOD CATCHES, HOOD-CATCH BRACKETS, HOOD HANDLES, AND DOOR HANDLES. THE BASSICK COMPANY, Bridgeport, Conn.
Filed September 27, 1922. Serial No. 169,966. PUBLISHED FEBRUARY 13, 1923.

175,378. RUSTPROOFING OILS. AMERICAN CHEMICAL & MANUFACTURING CORPORATION, Dover, Del., and Kenilworth, N. J.
Filed September 14, 1922. Serial No. 169,432. PUBLISHED AUGUST 28, 1923.

175,379. TOOTHBRUSHES. THADDEUS P. HYATT, New York, N. Y.
Filed September 13, 1922. Serial No. 169,400. PUBLISHED AUGUST 28, 1923.

175,380. INSECTICIDE. SOUTHERN SPECIALTY COMPANY, Thomasville, Ga.
Filed May 19, 1923. Serial No. 180,902. PUBLISHED AUGUST 14, 1923.

175,381. FRESH APPLES. TOUCHET VALLEY APPLE CO., Waitsburg, Wash.
Filed May 19, 1923. Serial No. 180,908. PUBLISHED AUGUST 21, 1923.

175,382. A ZINC-CHLORIDE ANTISEPTIC AND DEODORANT. RAYMOND E. TAYLOR, Portland, Oreg.
Filed May 19, 1923. Serial No. 180,907. PUBLISHED AUGUST 14, 1923.

175,383. WOOD IN CERTAIN TREATED CONDITIONS. SU-DEX WOOD CURING COMPANY, INC., Cescob, Conn., and Brooklyn, N. Y.
Filed May 27, 1922. Serial No. 164,607. PUBLISHED AUGUST 28, 1923.

175,384. WOOD IN CERTAIN TREATED CONDITIONS. SU-DEX WOOD CURING COMPANY, INC., Coscob, Conn., and Brooklyn, N. Y.
Filed May 27, 1922. Serial No. 164,606. PUBLISHED AUGUST 28, 1923.

175,385. SILK FISHING LINES. CORTLAND LINE CO. INC., Cortland, N. Y.
Filed May 24, 1922. Serial No. 164,386. PUBLISHED AUGUST 21, 1923.

175,386. SOFT-DRINK EXTRACT. ALFRED G. EISOLD, doing business as Eisold's Flavor & Syrup Co., Milwaukee, Wis.
Filed September 30, 1922. Serial No. 170,129. PUBLISHED AUGUST 28, 1923.

175,387. CHAMPAGNE WINE. SOCIETE VINICOLE DE CHAMPAGNE, Paris, France.
Filed June 8, 1922. Serial No. 165,213. PUBLISHED AUGUST 28, 1923.

175,388. STEPLADDERS. BAKER, HAMILTON & PACIFIC COMPANY, San Francisco, Calif.
Filed October 6, 1922. Serial No. 170,352. PUBLISHED AUGUST 28, 1923.

175,389. PAINTERS' BRUSHES. HANLON & GOODMAN CO., New York, N. Y.
Filed October 2, 1922. Serial No. 170,189. PUBLISHED AUGUST 28, 1923.

175,390. GASOLINE VEHICLES. THE RUBAY COMPANY, Cleveland, Ohio.
Filed November 6, 1922. Serial No. 171,658. PUBLISHED AUGUST 28, 1923.

175,391. BUILDING BRICKS AND ROOFING TILE. NIELS ESPERSON, doing business as Mid-Continent Clay Company, Peru, Kans.
Filed November 4, 1922. Serial No. 171,587. PUBLISHED AUGUST 28, 1923.

175,392. FOOD-FLAVORING EXTRACTS. FRANK T. MORRISSEY, doing business as Lowell Products Company, Lowell, Mass.
Filed January 27, 1922. Serial No. 158,534. PUBLISHED AUGUST 21, 1923.

175,393. MEN'S AND BOYS' OVERCOATS AND SUITS. LOUIS BAEFSKY, doing business as Famous Raincoat Company, Cincinnati, Ohio.
Filed January 14, 1922. Serial No. 157,910. PUBLISHED AUGUST 7, 1923.

175,394. CANNED SHRIMP AND CANNED OYSTERS. BILOXI PACKING & TRADING CO., Biloxi, Miss.
Filed January 20, 1922. Serial No. 158,175. PUBLISHED JANUARY 9, 1923.

175,395. TOILET PREPARATIONS. THE DANIELS AND FISHER STORES COMPANY, Denver, Colo.
Filed December 31, 1921. Serial No. 157,359. PUBLISHED AUGUST 1, 1922.

175,396. OYSTERS CANNED OR IN THE SHELL. J. C. WALKER & BROS., Exmore, Va.
Filed November 23, 1921. Serial No. 155,848. PUBLISHED MARCH 27, 1923.

175,397. TOILET PREPARATIONS. G. S. KOLAR LABORATORIES, Chicago, Ill.
Filed September 3, 1921. Serial No. 152,566. PUBLISHED JANUARY 31, 1922.

175,398. CERTAIN NAPPED FABRICS. THE PUTNAM-HOOKER COMPANY, Cincinnati, Ohio, and New York, N. Y.
Filed May 21, 1921. Serial No. 148,033. PUBLISHED AUGUST 21, 1923.

175,399. CIGARS. HALLERCZYK CIGAR COMPANY, Chicago, Ill.
Filed June 17, 1922. Serial No. 165,626. PUBLISHED AUGUST 21, 1923.

175,400. BARIUM-SULPHATE CREAM. POWERS-WEIGHTMAN-ROSENGARTEN CO., Philadelphia, Pa.
Filed June 8, 1922. Serial No. 165,200. PUBLISHED JANUARY 2, 1923.

175,401. TOILET BRUSHES. WIZARD PRODUCTS COMPANY, Chicago, Ill.
Filed May 29, 1922. Serial No. 164,682. PUBLISHED AUGUST 21, 1923.

175,402. MEDICINAL PREPARATIONS FOR GONORRHEA AND SYPHILIS. SIMON GLICKSON, Chicago, Ill.
Filed May 26, 1922. Serial No. 164,538. PUBLISHED AUGUST 28, 1923.

175,403. BAKING POWDER AND CREAM OF TARTAR. REGAL SUPPLY CORPORATION, New York, N. Y.
Filed April 29, 1922. Serial No. 163,111. PUBLISHED AUGUST 21, 1923.

175,404. PAINTERS' BRUSHES. PITTSBURGH PLATE GLASS CO., RENNOUS-KLEINLE DIVISION, Baltimore, Md.
Filed April 12, 1922. Serial No. 162,197. PUBLISHED AUGUST 21, 1923.

175,405. SHIRTINGS. W. HARRIS THURSTON & CO. INC., New York, N. Y.
Filed March 2, 1922. Serial No. 160,100. PUBLISHED JULY 17, 1923.

175,406. SOFT DRINK. MABEL E. VAUGHAN, doing business as Tut Manufacturing Company, Birmingham, Mich.
Filed June 6, 1923. Serial No. 181,625. PUBLISHED AUGUST 28, 1923.

175,407. CANNED FISH. GATLIN AND GATLIN, Los Angeles, Calif.
Filed June 5, 1923. Serial No. 181,562. PUBLISHED AUGUST 21, 1923.

175,408. SOFT DRINK SIRUP. CHARLES JOHN DENNIS, doing business as Dee-Gee Co., Chicago, Ill.
Filed June 4, 1923. Serial No. 181,516. PUBLISHED AUGUST 28, 1923.

175,409. ANTISEPTIC AND GERMICIDE. E. E. LIMBAUGH, doing business as The Probaugh Company, Atlanta, Ga.
Filed February 5, 1923. Serial No. 175,563. PUBLISHED AUGUST 14, 1923.

175,410. PERFUMERY AND HAIR OIL. THE ANGLO-INDIAN DRUG & CHEMICAL CO., doing business as Kaminia Perfumery Co., Bombay, India.
Filed July 14, 1922. Serial No. 166,869. PUBLISHED AUGUST 14, 1923.

175,411. ARTIFICIAL-SILK THREAD. SOCIETE GENERALE DE SOIE ARTIFICIELLE PAR LE PROCEDE VISCOSE, Brussels, Belgium.
Filed May 23, 1922. Serial No. 164,348. PUBLISHED AUGUST 21, 1923.

175,412. SHOE HEEL PLATES, SHOE TOE PLATES, AND SHOE TOE PROTECTORS. THE SUN PATENT DEVELOPNG CO., St. Louis, Mo.
Filed May 8, 1922. Serial No. 163,547. PUBLISHED AUGUST 21, 1923.

175,413. ALLOY STEEL. LUDLUM STEEL COMPANY, Watervliet, N. Y.
Filed April 22, 1922. Serial No. 162,750. PUBLISHED AUGUST 21, 1923.

175,414. ALLOY STEEL. LUDLUM STEEL COMPANY, Watervliet, N. Y.
Filed April 22, 1922. Serial No. 162,749. PUBLISHED AUGUST 21, 1923.

175,415. PISTON RINGS. TWIN PISTON RING CORPORATION, West Orange, N. J.
Filed April 21, 1922. Serial No. 162,699. PUBLISHED AUGUST 21, 1923.

175,416. TABLE SIRUP AND MAPLE SUGAR. THE WELDEN NATIONAL BANK, St. Albans, Vt.
Filed April 10, 1922. Serial No. 162,088. PUBLISHED AUGUST 14, 1923.

175,417. LINEN THREAD. THE LINEN THREAD COMPANY, doing business as The Finlayson Flax Spinning Co., Boston, Mass.
Filed March 15, 1922. Serial No. 160,712. PUBLISHED AUGUST 28, 1923.

175,418. SOFT DRINK AND SIRUPS. CALIFORNIA PRODUCTS & EXTRACT CO., San Francisco, Calif.
Filed March 9, 1922. Serial No. 160,393. PUBLISHED MAY 16, 1922.

175,419. TOILET PREPARATIONS. THE LA VALLIERE COMPANY, New Orleans, La.
Filed September 14, 1922. Serial No. 169,444. PUBLISHED MARCH 27, 1923.

175,420. CHEMICAL PREPARATION FOR USE IN PRESERVING SMOKED SAUSAGE. B. HELLER & COMPANY, Chicago, Ill.
Filed October 24, 1922. Serial No. 171,127. PUBLISHED AUGUST 28, 1923.

175,421. CHEMICAL PREPARATION FOR USE IN PRESERVING FRESH SAUSAGE. B. HELLER & COMPANY, Chicago, Ill.
Filed October 24, 1922. Serial No. 171,125. PUBLISHED AUGUST 28, 1923.

175,422. HYPNOTIC AND ANTISPASMODIC. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed October 16, 1922. Serial No. 170,781. PUBLISHED AUGUST 21, 1923.

175,423. SILK PIECE GOODS. ROBINSON SILK COMPANY, INC., New York, N. Y.
Filed September 15, 1922. Serial No. 169,500. PUBLISHED MARCH 27, 1923.

175,424. CHEMICAL COMPOSITION OF MATTER FOR DRESSING TREE WOUNDS. THE DAVEY TREE EXPERT COMPANY, Kent, Ohio.
Filed July 11, 1923. Serial No. 183,055. PUBLISHED AUGUST 28, 1923.

175,425. ROLLED OATS. RICH BROTHERS CEREAL COMPANY, Cedar Rapids, Iowa.
Filed December 30, 1922. Serial No. 174,031. PUBLISHED MAY 15, 1923.

175,426. PREPARATION FOR CANCER IN LIQUID FORM. SEIICHI KUBOTA, Tokyo, Japan.
Filed December 27, 1922. Serial No. 173,891. PUBLISHED AUGUST 21, 1923.

175,427. EMOLLIENT FOR TREATING FEET. ELLEN TERRY COOK, Buffalo, N. Y.
Filed December 22, 1922. Serial No. 173,701. PUBLISHED AUGUST 21, 1921.

175,428. SELF-RISING FLOUR. SOUTH GEORGIA PRODUCE COMPANY, Vidalia, Ga.
Filed November 13, 1922. Serial No. 171,967. PUBLISHED MARCH 20, 1923.

175,429. SELF-RISING FLOUR. SOUTH GEORGIA PRODUCE COMPANY, Vidalia, Ga.
Filed November 13, 1922. Serial No. 171,966. PUBLISHED MARCH 20, 1923.

175,430. MEAT-CURING CHEMICAL PREPARATION USED IN MAKING PREPARED HAM OR SAUSAGE ROLLS. B. HELLER & COMPANY, Chicago, Ill.
Filed November 9, 1922. Serial No. 171,755. PUBLISHED AUGUST 28, 1923.

175,431. OINTMENT AND LINIMENT. GEORGE L. STOWELL, Waltham, Mass.
Filed July 12, 1922. Serial No. 166,793. PUBLISHED AUGUST 14, 1923.

175,432. DYESTUFFS. GEORGE BOTHAMLEY, New York, N. Y.
Filed November 4, 1922. Serial No. 171,568. PUBLISHED AUGUST 28, 1923.

175,433. PHOTOGRAPHIC DEVELOPER. JOHNSON & SONS, London, England, and New York, N. Y.
Filed July 13, 1922. Serial No. 166,835. PUBLISHED AUGUST 14, 1923.

175,434. PHOTOGRAPHIC DEVELOPER. JOHNSON & SONS, London, England, and New York, N. Y.
Filed July 13, 1922. Serial No. 166,834. PUBLISHED AUGUST 14, 1923.

175,435. CANNED VEGETABLES. THE WINOER CANNING COMPANY, Circleville, Ohio.
Filed May 19, 1923. Serial No. 180,917. PUBLISHED AUGUST 21, 1923.

175,436. FRESH APPLES. TOUCHET VALLEY APPLE CO., Waitsburg, Wash.
Filed May 19, 1923. Serial No. 180,909. PUBLISHED AUGUST 21, 1923.

175,437. TOY VEHICLES. THE COLSON COMPANY, Elyria, Ohio.
Filed June 9, 1921. Serial No. 148,870. PUBLISHED AUGUST 28, 1923.

175,438. MATCHES. JONKOPING OCH VULCANS TANDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed November 30, 1920. Serial No. 140,463. PUBLISHED AUGUST 28, 1923.

175,439. MATCHES. JONKOPING OCH VULCANS TANDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed November 30, 1920. Serial No. 140,455. PUBLISHED AUGUST 28, 1923.

175,440. MALT SIRUP. LOUIS LEVY, doing business as O. K. Bottler's Supply House, New York, N. Y.
Filed September 17, 1920. Serial No. 137,287. PUBLISHED AUGUST 28, 1923.

175,441. OINTMENT AND SOLUTION FOR USE IN THE TREATMENT OF ECZEMA, AND SIRUP SANGUINARIA COMPOUND, AN INTERNAL TREATMENT FOR COLDS AND COUGHS. COLTON & COLLINS, INC., Oakland, Calif.
Filed May 8, 1920. Serial No. 132,170. PUBLISHED AUGUST 8, 1922.

175,442. GUMMED PAPER. IDEAL COATED PAPER COMPANY, Brookfield, Mass., assignor to McLaurin-Jones Co., Brookfield, Mass., a Corporation of Massachusetts.
Filed Apr. 1, 1920. Serial No. 130,477. PUBLISHED JUNE 19, 1923.

175,443. WOMEN'S OUTER COATS, SUITS, DRESSES, AND HATS. LAWRENCE H. BURGOWER, doing business as The Vogue, Dallas, Tex.
Filed January 26, 1920. Serial No. 127,709. PUBLISHED AUGUST 7, 1923.

175,444. FABRICS MADE OF SILK. GOLDING FABRICS CORPORATION, New York, N. Y.
Filed July 17, 1923. Serial No. 183,336. PUBLISHED AUGUST 28, 1923.

175,445. HAIR NETS. SITROUX IMPORTING CO., INC., New York, N. Y.
Filed July 14, 1923. Serial No. 183,238. PUBLISHED AUGUST 28, 1923.

175,446. SHEETINGS AND PILLOWCASES. SERVICE EQUIPMENT CO., INC., New York, N. Y.
Filed July 14, 1923. Serial No. 183,236. PUBLISHED AUGUST 28, 1923.

175,447. WOOLEN PIECE GOODS. PENDALE WOOLEN MILLS, New York, N. Y.
Filed July 13, 1923. Serial No. 183,161. PUBLISHED AUGUST 28, 1923.

175,448. COTTON PIECE GOODS. MILIUS, HESSE & LEVY, New York, N. Y.
Filed July 12, 1923. Serial No. 183,117. PUBLISHED AUGUST 28, 1923.

175,449. HANDKERCHIEFS. JOSEPH SILBERSTEIN, New York, N. Y.
Filed July 11, 1923. Serial No. 183,088. PUBLISHED AUGUST 28, 1923.

175,450. SMOKERS' SUPPLIES—VIZ, PIPE RACKS. HARRY LUBIN, South Orange, N. J.
Filed July 11, 1923. Serial No. 183,074. PUBLISHED AUGUST 28, 1923.

175,451. SEWING THREAD. LA SOCIÉTÉ EN NOM COLLECTIF J. THIRIEZ PERE & FILS, Lille, France.
Filed July 7, 1923. Serial No. 182,919. PUBLISHED AUGUST 28, 1923.

175,452. COTTON PIECE GOODS. AMERICAN BLEACHED GOODS COMPANY, INC., New York, N. Y.
Filed July 7, 1923. Serial No. 182,896. PUBLISHED AUGUST 28, 1923.

175,453. COTTON PIECE GOODS. CHEROKEE SPINNING COMPANY, Knoxville, Tenn.
Filed July 5, 1923. Serial No. 182,789. PUBLISHED AUGUST 28, 1923.

175,454. COTTON PIECE GOODS. CHEROKEE SPINNING COMPANY, Knoxville, Tenn.
Filed July 5, 1923. Serial No. 182,788. PUBLISHED AUGUST 28, 1923.

175,455. CERTAIN ARTICLES OF CLOTHING. THE SCHUSTER COMPANY INCORPORATED, Louisville, Ky.
Filed June 28, 1921. Serial No. 149,779. PUBLISHED AUGUST 14, 1923.

175,456. SOFT DRINK. THE RICCO COMPANY OF AMERICA, Columbus, Ga.
Filed July 16, 1921. Serial No. 150,470. PUBLISHED OCTOBER 31, 1922.

175,457. COTTON GOODS IN THE PIECE. WM. SIMPSON, SONS & CO., Philadelphia, Pa.
Filed June 30, 1923. Serial No. 182,679. PUBLISHED AUGUST 28, 1923.

175,458. HANDKERCHIEFS. NEW YORK MERCHANDISE COMPANY, New York, N. Y.
Filed June 29, 1923. Serial No. 182,603. PUBLISHED AUGUST 28, 1923.

175,459. COAL. HARRISBURG COLLIERY COMPANY, Chicago, Ill.
Filed June 29, 1923. Serial No. 182,584. PUBLISHED AUGUST 21, 1923.

175,460. CERTAIN COTTON PIECE GOODS. NEUSS, HESSLEIN & CO., INC., New York, N. Y.
Filed June 22, 1923. Serial No. 182,356. PUBLISHED AUGUST 28, 1923.

175,461. SILK, ARTIFICIAL SILK, COTTON, LINEN, AND WOOLEN PIECE GOODS. ROUBAIX MILLS, INC., New York, N. Y.
Filed June 22, 1923. Serial No. 182,359. PUBLISHED AUGUST 28, 1923.

175,462. RECOIL PADS FOR GUNS. JOSTAM MFG. CO., Chicago, Ill.
Filed June 27, 1923. Serial No. 182,515. PUBLISHED AUGUST 28, 1923.

175,463. TRAVELING BAGS. DIRECT METHOD COMPANY, Warren, Pa.
Filed June 29, 1923. Serial No. 182,572. PUBLISHED AUGUST 28, 1923.

175,464. SILK, ARTIFICIAL SILK, COTTON, LINEN, AND WOOLEN PIECE GOODS. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed June 22, 1923. Serial No. 182,344. PUBLISHED AUGUST 28, 1923.

175,465. COTTON PIECE GOODS. F. U. STEARNS & COMPANY, New York, N. Y.
Filed June 13, 1923. Serial No. 181,963. PUBLISHED AUGUST 28, 1923.

175,466. DOLLS AND STUFFED ANIMALS. DAVIS & VOETSCH, New York, N. Y.
Filed June 14, 1923. Serial No. 181,982. PUBLISHED AUGUST 28, 1923.

175,467. GLASS. CHANCE BROTHERS AND CO. LIMITED, West Smethwick, Stafford, England.
Filed June 16, 1923. Serial No. 182,086. PUBLISHED AUGUST 21, 1923.

175,468. TROUSERS. POLO MANUFACTURING COMPANY, Clinton, Iowa.
Filed June 16, 1923. Serial No. 182,113. PUBLISHED AUGUST 28, 1923.

175,469. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. THE CLIVER-WRIGHT-RAINEY CO., Cincinnati, Ohio.
Filed June 18, 1923. Serial No. 182,134. PUBLISHED AUGUST 28, 1923.

175,470. WOOLEN FABRICS. HARRY COLEMAN, London, England.
Filed June 20, 1923. Serial No. 182,234. PUBLISHED AUGUST 28, 1923.

175,471. LADIES' GOWNS, DRESSES, AND COSTUMES IN ONE, TWO, AND THREE PIECE GARMENTS. LITTLE WOMEN DRESS CO., New York, N. Y.
Filed June 13, 1923. Serial No. 181,956. PUBLISHED AUGUST 28, 1923.

175,472. RAW COTTON. ANDERSON, CLAYTON & CO., Houston, Tex.
Filed June 11, 1923. Serial No. 181,804. PUBLISHED AUGUST 21, 1923.

175,473. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. ANDREW A. WUEST, Cincinnati, Ohio.
Filed June 9, 1923. Serial No. 181,800. PUBLISHED AUGUST 28, 1923.

175,474. CERTAIN THREADS AND YARNS. PFALTZ & BAUER, INC., New York, N. Y.
Filed June 9, 1923. Serial No. 181,773. PUBLISHED AUGUST 21, 1923.

175,475. PETROLEUM PRODUCTS, PARTICULARLY LUBRICATING OILS. STANDARD OIL COMPANY (NEW JERSEY), Bayonne N. J.
Filed June 7, 1923. Serial No. 181,661. PUBLISHED AUGUST 28, 1923.

175,476. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. J. S. MERRELL DRUG COMPANY, St. Louis, Mo.
Filed April 23, 1923. Serial No. 179,545. PUBLISHED AUGUST 21, 1923.

175,477. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. J. S. MERRELL DRUG COMPANY, St. Louis, Mo.
Filed April 23, 1923. Serial No. 179,544. PUBLISHED AUGUST 21, 1923.

175,478. PERFUME. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed April 23, 1923. Serial No. 179,523. PUBLISHED AUGUST 21, 1923.

175,479. WATERPROOFING COMPOSITION. CALIFORNIA BY-PRODUCTS CO., San Francisco, Calif.
Filed April 23, 1923. Serial No. 179,514. PUBLISHED AUGUST 21, 1923.

175,480. INSECTICIDES. COMMERCIAL CHEMICAL COMPANY, Memphis, Tenn.
Filed April 21, 1923. Serial No. 179,460. PUBLISHED AUGUST 21, 1923.

175,481. HEALING POWDER. THE BICKMORE COMPANY, Old Town, Me.
Filed April 21, 1923. Serial No. 179,454. PUBLISHED AUGUST 21, 1923.

175,482. MALT SIRUP FOR FOOD PURPOSES. THE INDEPENDENT BREWERIES COMPANY, also doing business as Independent Products Company, St. Louis, Mo.
Filed April 9, 1923. Serial No. 178,849. PUBLISHED AUGUST 21, 1923.

175,483. MEDICAL PREPARATIONS FOR LEUCORRHEA, CERVICAL CATARRH, AND CERVICAL INFLAMMATION. PECK & STERBA, New York, N. Y.
Filed March 31, 1923. Serial No. 178,405. PUBLISHED AUGUST 28, 1923.

175,484. FACE AND HAND LOTIONS, FACE CREAMS, AND HAIR POMADES. THE CANNON TOILET MANUFACTURING CO., St. Paul, Minn.
Filed March 30, 1923. Serial No. 178,330. PUBLISHED AUGUST 14, 1923.

175,485. ROUGE VANISHING CREAM. DANYA, INC., New York, N. Y.
Filed March 29, 1923. Serial No. 178,231. PUBLISHED AUGUST 21, 1923.

175,486. MEDICINAL PREPARATION USED AS A DIGESTANT. G. W. CARNRICK CO., New York, N. Y.
Filed March 27, 1923. Serial No. 178,089. PUBLISHED AUGUST 28, 1923.

175,487. MEDICINE FOR THE TREATMENT OF LEUCORRHEA, ULCERATION OF THE WOMB, AND INFLAMMATION OF THE MUCOUS MEMBRANE. CLEMENT L. HUGHES, doing business as The Wiseo Co., Canton and Peoria, Ill.
Filed March 26, 1923. Serial No. 178,041. PUBLISHED AUGUST 28, 1923.

175,488. TABLETS FOR CONSTIPATION, LIVER, KIDNEYS, STOMACH, AND BOWELS. JOSEPH D SALEM, doing business as Salem Laboratory, Chicago, Ill.
Filed March 24, 1923. Serial No. 178,001. PUBLISHED AUGUST 21, 1923.

175,489. TABLETS FOR CONSTIPATION, LIVER, KIDNEYS, STOMACH, AND BOWELS. JOSEPH D. SALEM, doing business as Salem Laboratory, Chicago, Ill.
Filed March 24, 1923. Serial No. 178,000. PUBLISHED AUGUST 21, 1923.

175,490. NEAR BEER. WIELANDS INCORPORATED, doing business as Fredericksburg Brewing Company, San Francisco, Calif.
Filed March 23, 1923. Serial No. 177,942. PUBLISHED AUGUST 21, 1923.

175,491. WOOLEN PIECE GOODS PARTICULARLY DESIGNED FOR ARMY AND MARINE OFFICERS' UNIFORMS. H. W. SCHWAB, INC., New York, N. Y.
Filed March 23, 1923. Serial No. 177,925. PUBLISHED AUGUST 21, 1923.

175,492. ANTISEPTICS AND DEODORIZERS. THE DAIRY LABORATORIES, Philadelphia, Pa.
Filed March 23, 1923. Serial No. 177,898. PUBLISHED AUGUST 14, 1923.

175,493. PHYSIOLOGICAL NUTRITIVE SALTS. JOSEPH F. BEERLI, Cleveland, Ohio.
Filed March 23, 1923. Serial No. 177,894. PUBLISHED JULY 17, 1923.

175,494. CIGARETTES. MILTIADES MELACHRINO, New York, N. Y.
Filed March 22, 1923. Serial No. 177,859. PUBLISHED AUGUST 21, 1923.

175,495. PREPARATION OF HYPOPHOSPHITES. FELLOWS MEDICAL MANUFACTURING COMPANY, INC., New York, N. Y.
Filed March 22, 1923. Serial No. 177,836. PUBLISHED AUGUST 14, 1923.

175,496. CORN SALVE. MAX BRANDES, Brooklyn, N. Y.
Filed March 21, 1923. Serial No. 177,768. PUBLISHED AUGUST 21, 1923.

175,497. LAXATIVE. WILLIAM G. HUFFMAN, Jr., Greenville, Tex.
Filed March 20, 1923. Serial No. 177,741. PUBLISHED AUGUST 14, 1923.

175,498. CERTAIN COTTON GOODS IN THE PIECE. MALTESE TEXTILE CORPORATION, New York, N. Y.
Filed March 15, 1923. Serial No. 177,498. PUBLISHED AUGUST 21, 1923.

175,499. LIVER REGULATOR AND TONIC. DANIEL J. GUNTER, doing business as The Dan-Nax Co., Atlanta, Ga.
Filed March 12, 1923. Serial No. 177,297. PUBLISHED AUGUST 14, 1923.

175,500. SALT FOR CURING MEAT. BENJAMIN MAYER, doing business as B. Mayer, New York, N. Y.
Filed March 5, 1923. Serial No. 177,014. PUBLISHED AUGUST 28, 1923.

175,501. LINIMENTS AND PILLS. JOHN F. KOBYLANSKI, doing business as Five Brothers Medicine Co., Gary, Ind.
Filed March 2, 1923. Serial No. 176,838. PUBLISHED AUGUST 14, 1923.

175,502. CORN SALVE. ABRAHAM WOLFE, doing business as Wolfe's Shoe Store, Plattsburg, N. Y.
Filed March 2, 1923. Serial No. 176,866. PUBLISHED AUGUST 21, 1923.

175,503. BAKING POWDER. CHARLES T. WHITTIER, New York, N. Y.
Filed February 7, 1923. Serial No. 175,692. PUBLISHED AUGUST 21, 1923.

175,504. CANDY. HUYLER'S, New York, N. Y.
Filed February 7, 1923. Serial No. 175,657. PUBLISHED JUNE 26, 1923.

175,505. MOTOR-DRIVEN VEHICLES—NAMELY, AUTOMOBILE TAXICABS. YELLOW CAB MANUFACTURING CO., Chicago, Ill
Filed April 2, 1923. Serial No. 178,488. PUBLISHED AUGUST 28, 1923.

175,506. RAILWAY SIGNAL FUSEES. FREDERIC L. WANKLYN, Montreal, Quebec, Canada.
Filed April 7, 1923. Serial No. 178,785. PUBLISHED AUGUST 28, 1923.

175,507. READY-MIXED PAINTS, VARNISHES, STAINS, AND PAINT ENAMELS. STAR-PEERLESS WALL PAPER MILLS, Joliet, Ill.
Filed April 10, 1923. Serial No. 178,939. PUBLISHED AUGUST 28, 1923.

175,508. LUBRICATING AND STERILIZING MEDIUM FOR DENTAL INSTRUMENTS, PRIMARILY FOR LUBRICATING, CLEANING, AND PROLONGING THE LIFE OF THE INSTRUMENTS. HARRY P. EMEIS, doing business as Stero-Oil Company, San Diego, Calif.
Filed March 14, 1923. Serial No. 177,433. PUBLISHED AUGUST 28, 1923.

175,509. COTTON GOODS IN THE PIECE. NEUSS, HESSLEIN & COMPANY, INC., New York, N. Y.
Filed March 15, 1923. Serial No. 177,507. PUBLISHED AUGUST 28, 1923.

175,510. VELVETS IN THE PIECE. COUDURIER, FRUCTUS & DESCHER, Lyon, France, and New York, N. Y.
Filed March 16, 1923. Serial No. 177,548. PUBLISHED AUGUST 28, 1923.

175,511. LADDERS. SAGINAW LADDER CO., LIMITED, Saginaw, Mich.
Filed March 19, 1923. Serial No. 177,696. PUBLISHED AUGUST 28, 1923.

175,512. SOFT DRINKS AND EXTRACTS. ADVANCE CHEMICAL COMPANY, INC., New York, N. Y.
Filed March 20, 1923. Serial No. 177,721. PUBLISHED AUGUST 28, 1923.

175,513. CURTAIN-WINDOW LIGHTS AND VEHICLE TOP FABRICS. H. SCHERER & COMPANY, Detroit, Mich.
Filed March 26, 1923. Serial No. 178,065. PUBLISHED AUGUST 28, 1923.

175,514. MOTOR-DRIVEN VEHICLES—NAMELY, AUTOMOBILE TAXICABS. YELLOW CAB MANUFACTURING CO., Chicago, Ill.
Filed April 2, 1923. Serial No. 178,487. PUBLISHED AUGUST 28, 1923.

175,515. PAPER DRINKING (OR SODA) STRAWS. NEW JERSEY PAPER TUBE COMPANY, Englewood, N. J.
Filed February 5, 1923. Serial No. 175,590. PUBLISHED AUGUST 28, 1923.

175,516. GLARE-SHIELD ATTACHMENTS FOR AUTOMOBILE HEADLIGHTS. PATENT NOVELTY COMPANY, Fulton, Ill.
Filed February 17, 1923. Serial No. 176,208. PUBLISHED AUGUST 28, 1923.

175,517. VEILS AND SILK CLOTH IN THE PIECE. VANITY FAIR SILK MILLS, Reading, Pa.
Filed February 24, 1923. Serial No. 176,583. PUBLISHED AUGUST 28, 1923.

175,518. COFFEE. HAAS, BARUCH & CO., Los Angeles, Calif.
Filed February 26, 1923. Serial No. 176,623. PUBLISHED AUGUST 14, 1923.

175,519. GINGHAMS. HERBERT B. LEDERER CORP., New York, N. Y.
Filed March 7, 1923. Serial No. 177,089. PUBLISHED AUGUST 28, 1923.

175,520. INTERCHANGEABLE CUT-TO-SHAPE LETTERS AND FIGURES OF RESILIENT MATERIAL. DAVENPORT-TAYLOR MFG. COMPANY, Chicago, Ill.
Filed February 3, 1923. Serial No. 175,471. PUBLISHED JUNE 5, 1923.

175,521. LININGS, POCKETINGS, AND INTERLININGS OF COTTON FABRIC IN THE PIECE. GOETZ-BERLIN CO. INC., New York, N. Y.
Filed February 3, 1923. Serial No. 175,485. PUBLISHED AUGUST 28, 1923.

175,522. CERTAIN NAMED CLOTHING. GRANDE MAISON DE BLANC, INC., New York, N. Y.
Filed January 24, 1923. Serial No. 175,141. PUBLISHED AUGUST 28, 1923.

175,523. RAIL CHAIRS. KISS AND CHOKA, Moline, Ill.
Filed January 29, 1923. Serial No. 175,250. PUBLISHED AUGUST 21, 1923.

175,524. SILK, COTTON, AND WOOL PIECE GOODS AND COMBINATIONS THEREOF. ARTHUR BEIR & CO. INC., New York, N. Y.
Filed January 23, 1923. Serial No. 174,953. PUBLISHED AUGUST 28, 1923.

175,525. HYDROCARBON-FUEL BURNERS. THE GASIFIER COMPANY, Elizabeth, N. J.
Filed May 5, 1923. Serial No. 180,214. PUBLISHED AUGUST 21, 1923.

175,526. DOORS AND SASHES. MEMPHIS SASH & DOOR CO., Memphis, Tenn.
Filed May 25, 1923. Serial No. 181,136. PUBLISHED AUGUST 21, 1923.

175,527. NONALCOHOLIC, NONCEREAL MALTLESS BEVERAGE SOLD AS A SOFT DRINK AND A SIRUP FOR MAKING THE SAME. HAROLD C. WATKINS, doing business as Watkins Chemical Company, Scranton, Pa.
Filed May 25, 1923. Serial No. 181,157. PUBLISHED AUGUST 28, 1923.

175,528. WOOLEN, MOHAIR, JUTE, COTTON, SILK, AND LINEN FABRICS. KUNST & SMALL CO., New York, N. Y.
Filed May 26, 1923. Serial No. 181,195. PUBLISHED AUGUST 28, 1923.

175,529. CANNED SALMON. BEEGLE PACKING CO., Ketchikan, Alaska.
Filed May 25, 1923. Serial No. 181,106. PUBLISHED AUGUST 21, 1923.

175,530. DYED YARNS. "S. & M." DYE WORKS, INC., Philadelphia, Pa.
Filed May 24, 1923. Serial No. 181,089. PUBLISHED AUGUST 21, 1923.

175,531. OILS AND OILING COMPOSITIONS. UNION PETROLEUM COMPANY, Philadelphia, Pa.
Filed May 22, 1923. Serial No. 180,990. PUBLISHED AUGUST 28, 1923.

175,532. CANNED FRUITS AND VEGETABLES. FREE & KLINCK, INC., Brooklyn, N. Y.
Filed May 23, 1923. Serial No. 181,020. PUBLISHED AUGUST 21, 1923.

175,533. GASOLINE. THE INTEROCEAN OIL COMPANY, New York, N. Y.
Filed May 23, 1923. Serial No. 181,027. PUBLISHED AUGUST 28, 1923.

175,534. MEDICINE FOR ANÆMIA, CHLOROSIS, GENERAL DEBILITY, AND FOR USES IN CONVALESCENCE. EUGENE GALBRUN, Paris, France.
Filed May 19, 1923. Serial No. 180,854. PUBLISHED AUGUST 28, 1923.

175,535. WATER HEATERS, AUTOMATIC AND NONAUTOMATIC, OPERATED EITHER BY GAS OR ELECTRICITY. GENERAL WATER HEATER CORPORATION, Los Angeles, Calif.
Filed May 19, 1923. Serial No. 180,856. PUBLISHED AUGUST 21, 1923.

175,536. CANDY. DIRECT CHOCOLATE COMPANY, INC., Fall River, Mass.
Filed May 17, 1923. Serial No. 180,755. PUBLISHED AUGUST 21, 1923.

175,537. INTERNAL-COMBUSTION ENGINES. STERLING ENGINE CO., Buffalo, N. Y.
Filed May 17, 1923. Serial No. 180,777. PUBLISHED AUGUST 21, 1923.

175,538. TWEEZERS FOR REMOVING SUPERFLUOUS HAIR. MARY W. CHANDLER, doing business as Takof Company, Cleveland Heights, Ohio.
Filed May 14, 1923. Serial No. 180,588. PUBLISHED AUGUST 21, 1923.

175,539. OIL HEATERS. THE A. J. ALSDORF CORPORATION, Chicago, Ill.
Filed May 16, 1923. Serial No. 180,678. PUBLISHED AUGUST 21, 1923.

175,540. GARAGES. THE P. A. ROBERTS CONSTRUCTION CO., INC., Washington, D. C.
Filed May 14, 1923. Serial No. 180,619. PUBLISHED AUGUST 21, 1923.

175,541. COAL. ELKHORN COAL COMPANY, Lexington, Ky.
Filed May 14, 1923. Serial No. 180,593. PUBLISHED AUGUST 21, 1923.

175,542. PIECE GOODS OF SILK, COTTON, AND WOOL, AND MIXTURES OF THE SAME. SOCIETE RODIER, Paris, France.
Filed May 11, 1923. Serial No. 180,505. PUBLISHED AUGUST 28, 1923.

175,543. HATBOXES, SUITCASES, AUTO LUNCH KITS, OVERNIGHT SUITCASES, FITTED SUITCASES, AND AUTOMOBILE TRUNKS. XCLUSO AUTO TRUNK & SPECIALTY CORP., New York, N. Y.
Filed May 12, 1923. Serial No. 180,572. PUBLISHED AUGUST 21, 1923.

175,544. WINDSHIELD CLEANERS. HOWARD D. THOMAS, doing business as Howard D. Thomas Co., Seattle, Wash.
Filed May 3, 1923. Serial No. 180,153. PUBLISHED AUGUST 28, 1923.

175,545. MEN'S AND BOYS' OUTER CLOTHING—NAMELY, SUITS. STRAWBRIDGE & CLOTHIER, Philadelphia, Pa.
Filed May 3, 1923. Serial No. 180,151. PUBLISHED AUGUST 28, 1923.

175,546. FRYING PANS. MILLER LOCK COMPANY, Philadelphia, Pa.
Filed April 28, 1923. Serial No. 179,877. PUBLISHED AUGUST 21, 1923.

175,547. ARTIFICIAL-SILK WASTE PARTLY PREPARED. ABEECO MILL, INC., New York, N. Y.
Filed April 30, 1923. Serial No. 179,912. PUBLISHED AUGUST 21, 1923.

175,548. CERTAIN NAMED PIECE GOODS AND RIBBONS. AMERICAN LADY CORSET COMPANY, Detroit, Mich.
Filed April 30, 1923. Serial No. 179,917. PUBLISHED AUGUST 28, 1923.

175,549. QUILTS AND TEXTILE BLANKETS. ISIDOR ROTHCHILD, New York, N. Y.
Filed April 30, 1923. Serial No. 179,961. PUBLISHED AUGUST 28, 1923.

175,550. HAND-SEWING AND MACHINE-SEWING LINEN THREADS. BARBOUR FLAX SPINNING CO., Paterson, N. J.
Filed May 1, 1923. Serial No. 179,985. PUBLISHED JULY 31, 1923.

175,551. LADIES' AND MISSES' DRESSES. THE J. L. HUDSON CO., Detroit, Mich.
Filed May 3, 1923. Serial No. 180,121. PUBLISHED AUGUST 28, 1923.

175,552. DIES, JIGS, SPECIAL MACHINERY, METAL APPLIANCES FOR METAL STAMPINGS, AND OIL FIELD RIGGING AND MACHINERY. STEELCRAFT ENGINEERING COMPANY, Marion, Ind.
Filed April 27, 1923. Serial No. 179,833. PUBLISHED AUGUST 21, 1923.

175,553. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed April 28, 1923. Serial No. 179,848. PUBLISHED AUGUST 28, 1923.

175,554. RINGS FOR STRINGING BRIDLE WIRES, MORE SPECIFICALLY KNOWN IN THE TRADE AS DRIVE RINGS, BRIDLE RINGS, AND CABLE CLAMP RINGS. DIAMOND EXPANSION BOLT CO., New York, N. Y.
Filed April 27, 1923. Serial No. 179,782. PUBLISHED AUGUST 21, 1923.

175,555. RINGS FOR STRINGING BRIDLE WIRES, MORE SPECIFICALLY KNOWN IN THE TRADE AS DRIVE RINGS, BRIDLE RINGS, AND CABLE CLAMP RINGS. DIAMOND EXPANSION BOLT CO., New York, N. Y.
Filed April 27, 1923. Serial No. 179,783. PUBLISHED AUGUST 21, 1923.

175,556. MACHINES FOR SLICING AND CUTTING CHEESE. REY & REY, Roquefort-sur-Soulzon, France.
Filed April 26, 1923. Serial No. 179,743. PUBLISHED AUGUST 21, 1921.

175,557. RUBBER TIRES. COAST TIRE AND RUBBER COMPANY, Oakland, Calif.
Filed April 25, 1923. Serial No. 179,657. PUBLISHED AUGUST 21, 1923.

175,558. CHILD'S WAGON TIRE. PUFFER-HUBBARD MANUFACTURING COMPANY, Minneapolis, Minn.
Filed April 23, 1923. Serial No. 179,551. PUBLISHED AUGUST 21, 1923.

175,559. STEEL BILLETS, SHEETS, FORGINGS, ROUND BARS, AND ROUNDS. ALLEGHENY STEEL COMPANY, Brackenridge, Pa.
Filed April 26, 1923. Serial No. 179,698. PUBLISHED AUGUST 21, 1923.

175,560. PNEUMATIC AUTOMOBILE TIRES AND INNER TUBES. JACK TIRE & RUBBER COMPANY, Spokane, Wash.
Filed April 24, 1923. Serial No. 179,601. PUBLISHED AUGUST 21, 1923.

175,561. LIME. THE ROCKCASTLE CEMENT & LIME COMPANY, Baltimore, Md., Pine Hill and Mount Vernon, Ky.
Filed April 13, 1923. Serial No. 179,113. PUBLISHED AUGUST 21, 1923.

175,562. SIGNS FOR MECHANICAL ADVERTISING PURPOSES. HARRY C. DAWSON, doing business as Activad Sign Service, Columbus, Ohio.
Filed April 12, 1923. Serial No. 179,033. PUBLISHED AUGUST 21, 1923.

175,563. SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed April 11, 1923. Serial No. 178,976. PUBLISHED JUNE 12, 1923.

175,564. COMPOUND FOR USE IN THE PREPARATION OF JELLIES, DESSERTS, AND PASTRIES. THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y.
Filed April 11, 1923. Serial No. 178,998. PUBLISHED AUGUST 21, 1923.

175,565. CANDIES OF ALL DESCRIPTIONS. SHOTWELL MFG. CO., Chicago, Ill.
Filed June 1, 1923. Serial No. 181,456. PUBLISHED AUGUST 21, 1923.

175,566. SOFT DRINKS. CHICAGO WHISTLE BOTTLING CO., Chicago, Ill.
Filed May 31, 1923. Serial No. 181,379. PUBLISHED AUGUST 28, 1923.

175,567. CERTAIN CARPETS AND RUGS AND DRAPERIES. ASIA SALES CORPORATION, Portland, Oreg.
Filed May 28, 1923. Serial No. 181,236. PUBLISHED AUGUST 28, 1923.

175,568. COMPOUND FOR TREATING RHEUMATISM. DAVID H. BUXTON, doing business as Buxton Rheumatic Medicine Co., Abbot Village, Me.
Filed May 22, 1923. Serial No. 180,961. PUBLISHED AUGUST 21, 1923.

175,569. FACE POWDER AND COLD CREAM. NELSON, BAKER & COMPANY, Detroit, Mich.
Filed May 21, 1923. Serial No. 180,940. PUBLISHED AUGUST 21, 1923.

175,570. CHEMICAL PREPARATION FOR THE TREATMENT OF THE SKIN. THE WILLIAM P. KAHN CORP., St. Louis, Mo.
Filed May 22, 1923. Serial No. 180,980. PUBLISHED AUGUST 21, 1923.

175,571. TOILET CREAMS AND ASTRINGENTS. KATHLEEN MARY QUINLAN, New York, N. Y.
Filed May 22, 1923. Serial No. 180,986. PUBLISHED AUGUST 21, 1923.

175,572. FACE POWDERS, FACE CREAMS, PERFUMES, TOILET WATERS, AND ROUGES. GEORGE C. SPENCER, doing business as Spencer Perfume Company, South Bend, Ind.
Filed May 22, 1923. Serial No. 180,989. PUBLISHED AUGUST 21, 1923.

175,573. HAIR GROWER AND DANDRUFF PREPARATION. CHARLES L. GREEN, New Orleans, La.
Filed May 23, 1923. Serial No. 181,023. PUBLISHED AUGUST 28, 1923.

175,574. LIQUID PREPARATION REMEDY OR TONIC FOR NERVOUS DISEASES, ANÆMIA, CHLOROSIS, DEBILITY, IMPOTENCE, DIABETES, AND METABOLIC DISEASES. ORGANIC PREPARATIONS CO., INC., Brooklyn, N. Y.
Filed May 23, 1923. Serial No. 181,040. PUBLISHED AUGUST 21, 1923.

175,575. FIRE-EXTINGUISHING COMPOUNDS. PYRENE MANUFACTURING COMPANY, Newark, N. J.
Filed May 23, 1923. Serial No. 181,043. PUBLISHED AUGUST 21, 1923.

175,576. MEDICINAL PREPARATION. BRUNELLE DRUG CO., Woonsocket, R. I.
Filed May 24, 1923. Serial No. 181,057. PUBLISHED AUGUST 21, 1923.

175,577. CONCENTRATED COMMERCIAL DIASTASE. THE EBLING COMPANY, New York, N. Y.
Filed May 24, 1923. Serial No. 181,065. PUBLISHED AUGUST 21, 1923.

175,578. VEGETABLE GENERAL TONIC FOR HUMAN USE. J. W. BUCHANAN, doing business as Nu-Pep Laboratories, Union, S. C.
Filed May 26, 1923. Serial No. 181,173. PUBLISHED AUGUST 21, 1923.

175,579. TABLE GAME. LOUIS LA BORIE, Rochester, N. Y.
Filed May 26, 1923. Serial No. 181,196. PUBLISHED AUGUST 21, 1923.

175,580. N-BUTYL-ETHYL-BARBITURIC ACID. ABBOTT LABORATORIES, Chicago, Ill.
Filed May 28, 1923. Serial No. 181,233. PUBLISHED AUGUST 21, 1923.

175,581. SKIN LOTION. HOMER J. HANDLEY, Chappell, Nebr.
Filed May 28, 1923. Serial No. 181,276. PUBLISHED AUGUST 21, 1923.

175,582. PERFUMES. LEIGH CHEMIST, INC., New York, N. Y.
Filed May 28, 1923. Serial No. 181,287. PUBLISHED AUGUST 28, 1923.

175,583. PERFUMES. LEIGH CHEMIST, INC., New York, N. Y.
Filed May 28, 1923. Serial No. 181,288. PUBLISHED AUGUST 21, 1923.

175,584. TABLE GAME. CHAS. S. MUIR, doing business as The Polaris Co., Washington, D. C.
Filed May 28, 1923. Serial No. 181,301. PUBLISHED AUGUST 21, 1923.

175,585. MEDICINAL MINERAL OILS. STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill.
Filed May 1, 1923. Serial No. 180,033. PUBLISHED JULY 31, 1923.

175,586. SWEATERS, RIB SPORT COATS FOR MEN AND WOMEN, BATHING SUITS FOR MEN, WOMEN, AND CHILDREN, JERSEYS FOR MEN AND BOYS, SLEEVELESS SHIRTS, TIGHTS, AND STOCKINGS FOR ATHLETIC SPORTS AND THEATRICAL PURPOSES. JAMES W. BRINE COMPANY, doing business as Kingston Knitting Company, Boston and Cambridge, Mass.
Filed April 7, 1923. Serial No. 178,708. PUBLISHED AUGUST 14, 1923.

175,587. HOLDERS FOR RAZOR BLADES DURING SHARPENING. PARKER PRODUCTS, INC., Boston, Mass.
Filed May 1, 1923. Serial No. 180,027. PUBLISHED AUGUST 14, 1923.

175,588. VARNISH STAINS AND PAINT ENAMELS. PEASLEE-GAULBERT CO., Louisville, Ky.
Filed April 28, 1923. Serial No. 179,882. PUBLISHED JULY 3, 1923

175,589. DRESS, NEGLIGEE, AND WORK SHIRTS; BLOUSES, COATS, VESTS, PANTS, JACKETS, JUMPERS; OVERALLS FOR MEN, YOUTHS, AND BOYS; AND PLAY SUITS. LEVI STRAUSS & CO., San Francisco, Calif.
Filed April 23, 1923. Serial No. 179,563. PUBLISHED AUGUST 14, 1923.

175,590. DOLLS, BALLOONS, SQUAWKERS. WILLIAM CALDWELL, New York, N. Y.
Filed April 26, 1923. Serial No. 179,709. PUBLISHED AUGUST 21, 1923.

175,591. LOCKS FOR RADIATOR CAPS FOR AUTOMOBILES. MILO D. RATHBUN, Grand Rapids, Mich.
Filed April 17, 1923. Serial No. 179,284. PUBLISHED AUGUST 21, 1923.

175,592. RAINPROOF GARMENTS, SAID GARMENTS BEING LOOSE SLEEVELESS GARMENTS TO BE WORN OVER THE SHOULDERS AND CLOSED AROUND THE NECK. NEW YORK MACKINTOSH CLOTHING COMPANY, New York, N. Y.
Filed April 20, 1923. Serial No. 179,420. PUBLISHED AUGUST 14, 1923.

175,593. TOY ANIMALS, SOLDIERS, ETC. KRAZIFOR AMERICAN TOY CO., Hartford, Conn.
Filed April 21, 1923. Serial No. 179,476. PUBLISHED AUGUST 21, 1923.

175,594. HOSIERY. F. V. GUTMAN CORP., New York, N. Y.
Filed April 23, 1923. Serial No. 179,531. PUBLISHED AUGUST 14, 1923.

175,595. GOLF BALLS. HARRY C. LEE & COMPANY, New York, N. Y.
Filed April 17, 1923. Serial No. 179,278. PUBLISHED AUGUST 21, 1923.

175,596. TENNIS RACKETS. HARRY C. LEE & COMPANY, New York, N. Y.
Filed April 17, 1923. Serial No. 179,277. PUBLISHED AUGUST 21, 1923.

175,597. MEN'S DRESS, NEGLIGEE, AND WORK SHIRTS. AGRA SHIRT CO., New York, N. Y.
Filed April 14, 1923. Serial No. 179,126. PUBLISHED AUGUST 14, 1923.

175,598. WOMEN'S UNDERWEAR OF KNITTED AND TEXTILE FABRIC. VAN RAALTE COMPANY, INC., New York, N. Y.
Filed April 11, 1923. Serial No. 179,020. PUBLISHED AUGUST 14, 1923.

175,599. GOLF BALLS. GIMBEL BROTHERS, INC., New York, N. Y.
Filed April 10, 1923. Serial No. 178,916. PUBLISHED AUGUST 21, 1923.

175,600. COMPOUND OF VEGETABLE GUMS AND SUGARS DESIGNED FOR USE AS AN INGREDIENT FOR WATER ICES AND SHERBETS TO CAUSE THE INGREDIENTS TO COMBINE WELL AND TO IMPROVE THE BODY OF THE PRODUCT. THE LIQUID CARBONIC COMPANY, Chicago, Ill.
Filed April 9, 1923. Serial No. 178,853. PUBLISHED AUGUST 14, 1923.

175,601. CANDY. THE IMPORT DRUG SPECIALTIES CO., Cleveland, Ohio.
Filed April 9, 1923. Serial No. 178,847. PUBLISHED AUGUST 14, 1923.

175,602. WRENCHES. SIRE & PETERSEN WRENCH CO., De Witt, Nebr.
Filed April 7, 1923. Serial No. 178,775. PUBLISHED AUGUST 21, 1923.

175,603. ARTIFICIAL-VANILLA MATERIALS SUITABLE FOR THE MANUFACTURE OF FLAVORING EXTRACTS. MORANA, INCORPORATED, New York, N. Y.
Filed April 7, 1923. Serial No. 178,766. PUBLISHED AUGUST 14, 1923.

175,604. FLOTATION DEVICES, TENNIS BALLS, TOY VEHICLES, GOLF BALLS, BALLOONS (TOY), BASEBALLS, STREET CARS (TOY), PLAYING CARDS, TOY BALLS, FIGURE TOYS. MACLEAN DRUG COMPANY, Chicago, Ill.
Filed April 7, 1923. Serial No. 178,755. PUBLISHED AUGUST 21, 1923.

175,605. AUTOMOBILE BUMPERS. NEW YORK WIRE & SPRING COMPANY, Hoboken, N. J.
Filed December 22, 1922. Serial No. 173,716. PUBLISHED AUGUST 28, 1923.

175,606. FISHING REELS. A. F. MEISSELBACH MFG. CO. INC., New York, N. Y.
Filed December 19, 1922. Serial No. 173,574. PUBLISHED AUGUST 28, 1923.

175,607. FUR PELTS. HENRY ROSENBERG, New York, N. Y.
Filed December 16, 1922. Serial No. 173,443. PUBLISHED AUGUST 21, 1923.

175,608. CRETONNES, ARTIFICIAL SILKS, LINENS, COTTON VELOURS, REPS, AND POPLINS IN THE PIECE. ATKINSON, WADE & CO., New York, N. Y.
Filed December 15, 1922. Serial No. 173,342. PUBLISHED AUGUST 28, 1923.

175,609. ARTICLES OF TEXTILE—NAMELY, LINEN, CANVAS, COTTON, AND SAILCLOTH. SAID GOODS ARE IN THE PIECE. THE LAMPORT COMPANY OF TEXAS, INC., Dallas, Tex.
Filed December 9, 1922. Serial No. 173,133. PUBLISHED AUGUST 28, 1923.

175,610. FOOD-FLAVORING EXTRACTS AND JELLIES. GARRETT AND CO. INC., Brooklyn, N. Y.
Filed November 28, 1922. Serial No. 172,644. PUBLISHED AUGUST 14, 1923.

175,611. TABLETS FOR THE RELIEF OF HEADACHE, NEURALGIA, COLDS, RHEUMATISM, AND PAINS IN THE BACK. MILTON C. SMUCKER, Chicago, Ill.
Filed May 19, 1923. Serial No. 180,900. PUBLISHED AUGUST 28, 1923.

175,612. INTESTINAL GERMICIDE AND LAXATIVE. JULES NORTON RAYMOND, doing business as Associated Laboratories and Germ-A-Lax Laboratories, Chicago, Ill.
Filed May 19, 1923. Serial No. 180,890. PUBLISHED AUGUST 14, 1923.

175,613. MEDICINE USED IN THE TREATMENT OF RICKETS AND AS A BONE BUILDER AND GENERAL TONIC FOR DOGS. R. W. MCROBERTS, Atlanta, Ga.
Filed May 19, 1923. Serial No. 180,874. PUBLISHED AUGUST 14, 1923.

175,614. PREPARATION FOR EXTERNAL USE. JOHN D. MCCANDLESS, Roswell, N. Mex.
Filed May 19, 1923. Serial No. 180,873. PUBLISHED AUGUST 14, 1923.

175,615. FRESH CITROUS FRUITS. LEECO CITRUS GROWERS' ASSOCIATION, Fort Myers, Fla.
Filed May 19, 1923. Serial No. 180,867. PUBLISHED AUGUST 21, 1923.

175,616. SOLUTION CONTAINING PEPTONE AND IODINE. EUGÈNE GALBRUN, Paris, France.
Filed May 19, 1923. Serial No. 180,855. PUBLISHED AUGUST 14, 1923.

175,617. OLIVES. BOLIVAR PACKING COMPANY, San Diego, Calif.
Filed May 19, 1923. Serial No. 180,835. PUBLISHED AUGUST 21, 1923.

175,618. FRESH CITROUS FRUITS. CHESTER O. BANKS, also doing business as C. O. Banks Co., Monrovia, Calif.
Filed May 19, 1923. Serial No. 180,831. PUBLISHED AUGUST 21, 1923.

175,619. PREPARATION FOR THE TREATMENT OF KIDNEY AND BLOOD DISEASES. FESTINA BROS., New York, N. Y.
Filed May 18, 1923. Serial No. 180,796. PUBLISHED AUGUST 14, 1923.

175,620. CHEMICAL PREPARATION FOR COLORING HAIR. E-NAM-O MFGRS., Chicago, Ill.
Filed May 18, 1923. Serial No. 180,795. PUBLISHED AUGUST 14, 1923.

175,621. FAT REDUCING CREAM. DAINTY-FORM COMPANY INC., New York, N. Y.
Filed May 18, 1923. Serial No. 180,791. PUBLISHED AUGUST 14, 1923.

175,622. ROACH-EXTERMINATING POISON. WM. S. PATJENS, doing business as The Exterminating Engineers of America, New York, N. Y.
Filed May 17, 1923. Serial No. 180,773. PUBLISHED AUGUST 28, 1923.

175,623. COUGH SIRUP. WILLIAM MILLER, Muncie, Ind.
Filed May 17, 1923. Serial No. 180,768. PUBLISHED AUGUST 14, 1923.

175,624. BATTERY WATER. BETHEL SPRINGS WATER CO., Boothwyn, Pa.
Filed May 17, 1923. Serial No. 180,744. PUBLISHED AUGUST 14, 1923.

175,625. LINIMENT OR POULTICE FOR EXTERNAL APPLICATION. WILLIAM H. PETERS, doing business as The Red-Ot Company, Providence, R. I.
Filed May 16, 1923. Serial No. 180,722. PUBLISHED AUGUST 14, 1923.

175,626. EXTERNAL MEDICINES FOR USE IN THE TREATMENT OF DANDRUFF AND ECZEMA. RALPH N. HYMER, doing business as Hymer's Hair Tonic Co., Salem, Oreg.
Filed May 16, 1923. Serial No. 180,701. PUBLISHED AUGUST 21, 1923.

175,627. OVENS FOR GAS, GASOLINE, AND OIL STOVES. AMERICAN STOVE COMPANY, St. Louis, Mo.
Filed January 18, 1923. Serial No. 174,720. PUBLISHED AUGUST 14, 1923.

175,628. CHILDREN'S HAND SLEDS. SHEFFIELD MFG. CO., Burr Oak, Mich.
Filed January 12, 1923. Serial No. 174,530. PUBLISHED AUGUST 21, 1923.

175,629. CASEIN FOR THE PRODUCTION OF ARTIFICIAL HORN, ARTIFICAL HORN IN THE FORM OF RODS, SHEETS, AND OTHER FORMS. INTERNATIONALE GALALITH-GESELLSCHAFT HOFF & CO., Harburg, Germany.
Filed January 12, 1923. Serial No. 174,522. PUBLISHED AUGUST 21, 1923.

175,630. RUBBER REPAIR OUTFITS—NAMELY, RUBBER-SURFACE BUFFERS, RUBBER SHEETING, AND RUBBER CEMENT. RUBBER-WELD SALES COMPANY, Boston, Mass.
Filed January 5, 1923. Serial No. 174,215. PUBLISHED AUGUST 21, 1923.

175,631. NAIL POLISH. MERRIMAC LABORATORIES, INC., New York, N. Y.
Filed May 1, 1923. Serial No. 180,021. PUBLISHED AUGUST 21, 1923.

175,632. HAIR TONIC. MARVELETTE COMPANY, Defiance, Ohio.
Filed April 30, 1923. Serial No. 179,945. PUBLISHED AUGUST 14, 1923.

175,633. PREPARATIONS FOR STRAIGHTENING THE HAIR. L. A. FITZPATRICK, doing business as The Fitzpatrick Company, Helena, Ark.
Filed April 30, 1923. Serial No. 179,932. PUBLISHED AUGUST 21, 1923.

175,634. INSECTICIDE. WILLIAMS, MARTIN & GRAY, INC., also doing business as Seaboard Chemical Company, Norfolk, Va.
Filed April 28, 1923. Serial No. 179,909. PUBLISHED AUGUST 21, 1923.

175,635. BAKING POWDER, BICARBONATE OF SODA, GLOSS STARCH. DUDLEY & Co., Fairport, N. Y.
Filed April 28, 1923. Serial No. 179,859. PUBLISHED AUGUST 28, 1923.

175,636. FOUNDRY FLUX. HILLSIDE FLUOR SPAR MINES, Chicago, Ill.
Filed April 27, 1923. Serial No. 179,792. PUBLISHED AUGUST 28, 1923.

175,637. MEDICINAL WAFERS FOR BRONCHIAL TROUBLES. HENRY A. WHITNEY, Providence, R. I.
Filed April 26, 1923. Serial No. 179,760. PUBLISHED AUGUST 21, 1923.

175,638. EXTERNAL LOTION FOR PHYSICAL EXHILARANT AND LOCAL INORGANIC DISORDERS. THE THOMPSON-BARLOW COMPANY, INC., New York, N. Y., assignor to El Zair, Inc., New York, N. Y., a Corporation of New York.
Filed April 26, 1923. Serial No. 179,752. PUBLISHED AUGUST 21, 1923.

175,639. PILLS FOR USE AS A BLOOD PURIFIER AND SYSTEM TONIC. PAUL OUILLETTE, doing business as Fort Kent Drug Company, Fort Kent, Me.
Filed April 25, 1923. Serial No. 179,675. PUBLISHED AUGUST 14, 1923.

175,640. HERB TEA. S. C. WELLS & Co., Le Roy, N. Y.
Filed April 24, 1923. Serial No. 179,633. PUBLISHED AUGUST 21, 1923.

175,641. PREPARATION FOR THE TREATMENT OF FISTULA. KEETLE AND KEETLE, Ashland, Nebr.
Filed April 24, 1923. Serial No. 179,604. PUBLISHED AUGUST 14, 1923.

175,642. TOY VEHICLES. THE WHITE COMPANY, Cleveland, Ohio.
Filed May 10, 1923. Serial No. 180,458. PUBLISHED AUGUST 21, 1923.

175,643. PREPARATION FOR THE TREATMENT OF PILES. M. M. WINCHELL Co., Pasadena, Calif.
Filed May 2, 1923. Serial No. 180,093. PUBLISHED AUGUST 28, 1923.

175,644. PIECE GOODS OF COTTON AND SILK FOR DRAPERIES. GEO. BROOKS & SON COMPANY, Philadelphia, Pa.
Filed May 2, 1923. Serial No. 180,045. PUBLISHED AUGUST 21, 1923.

175,645. ROUGE. THE REMILLER CO., New York, N. Y.
Filed May 16, 1923. Serial No. 180,723. PUBLISHED AUGUST 28, 1923.

175,646. PILLS FOR RELIEF OF CERTAIN NAMED AILMENTS. FRANK S. GREY, Sacramento, Calif.
Filed May 12, 1923. Serial No. 180,537. PUBLISHED AUGUST 28, 1923.

175,647. RUBBER BALLOONS AND INFLATED BALLS, TOY AND DOLL FURNITURE, CHILDREN'S CRAYON, COLORING AND DRAWING SETS. FRED A. WISH INCORPORATED, New York, N. Y.
Filed May 14, 1923. Serial No. 180,640. PUBLISHED AUGUST 21, 1923.

175,648. COCONUT-OIL SHAMPOO. MICROBA ANTISEPTIC CO., Grand Forks, N. Dak.
Filed May 14, 1923. Serial No. 180,613. PUBLISHED AUGUST 21, 1923.

175,649. TABLE GAMES AND TOY WAGONS, ETC. THE AMERICAN SOLDIER CO., Glendale, Brooklyn, and New York, N. Y.
Filed May 15, 1923. Serial No. 180,648. PUBLISHED AUGUST 21, 1923.

175,650. INSECTICIDE, ANTISEPTIC, AND GERMICIDE. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed May 28, 1923. Serial No. 181,306. PUBLISHED AUGUST 21, 1923.

175,651. FRESH CITROUS FRUITS. J. H. STRAIT & COMPANY, Redlands, Calif.
Filed May 28, 1923. Serial No. 181,319. PUBLISHED AUGUST 21, 1923.

175,652. OINTMENT, LINIMENT, AND COUGH SIRUP. FLORYAN P. WOJCIECHOWSKI, doing business as O-Ko Remedy Products Co., Toledo, Ohio.
Filed May 28, 1923. Serial No. 181,328. PUBLISHED AUGUST 14, 1923.

175,653. VEGETABLE, MINERAL, AND ANIMAL PRODUCTS. LEE-STRAUSS Co., Johnstown, Pa.
Filed May 29, 1923. Serial No. 181,345. PUBLISHED AUGUST 28, 1923.

175,654. SULPHUR. SAN FRANCISCO SULPHUR Co., San Francisco, Calif.
Filed May 29, 1923. Serial No. 181,352. PUBLISHED AUGUST 28, 1923.

175,655. TOILET PREPARATIONS. SOCIÉTÉ ANONYME DES LABORATOIRES INNOXA, Paris, France.
Filed May 29, 1923. Serial No. 181,353. PUBLISHED AUGUST 14, 1923.

175,656. REMEDY TO PREVENT HEMORRHAGES. DE CALVUS SMITH, Arkansas City, Kans.
Filed May 31, 1923. Serial No. 181,417. PUBLISHED AUGUST 28, 1923.

175,657. COTTON VOILES AND COTTON DRESS GOODS IN THE PIECE. ABRAHAM & STRAUS, INC., New York, N. Y.
Filed June 6, 1923. Serial No. 181,579. PUBLISHED AUGUST 21, 1923.

175,658. TOOTHBRUSHES. JOHN OPPIE MCCALL, doing business as The Odontex Company, Buffalo, N. Y.
Filed June 6, 1923. Serial No. 181,607. PUBLISHED AUGUST 21, 1923.

175,659. ALL-WOOL COATING. FREDERICK LAUSSER & SON, New York, N. Y.
Filed June 8, 1923. Serial No. 181,694. PUBLISHED AUGUST 21, 1923.

175,660. CARROUSELS. EMIL HOPPE, Elizabeth, N. J.
Filed June 13, 1923. Serial No. 181,945. PUBLISHED AUGUST 21, 1923.

175,661. HANDKERCHIEFS. S. W. MAGNUS & Co., New York, N. Y.
Filed June 18, 1923. Serial No. 182,160. PUBLISHED AUGUST 21, 1923.

175,662. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & Co. INC., New York, N. Y.
Filed June 19, 1923. Serial No. 182,201. PUBLISHED AUGUST 21, 1923.

175,663. SILK, COTTON, AND VELVET TEXTILES IN THE PIECE. H. MEYERS CO. INC., New York, N. Y.
Filed June 20, 1923. Serial No. 182,254. PUBLISHED AUGUST 21, 1923.

175,664. ELASTIC KNITTED GOODS IN THE PIECE. WALLSTEIN INDUSTRIAL CORP., New York, N. Y.
Filed June 23, 1923. Serial No. 182,489. PUBLISHED AUGUST 21, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

175,665. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. PERCEVAL, New York, N. Y. Filed June 12, 1923. Serial No. 181,910.

ASTRAKHAN

Particular description of goods.—Canned Caviar.
Claims use since about 1903.

175,666. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GEM SAFETY RAZOR CORPORATION, Brooklyn, N. Y. Filed Apr. 30, 1923. Serial No. 179,934.

GEM SAFETY RAZORS · GEM DOUBLE LIFE BLADES

Particular description of goods.—Safety-Razor Sets.
Claims use since May 10, 1921.

175,667. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIAM T. KENNEDY, doing business as Pacific Rim Tool Co., Cleveland, Ohio. Filed Sept. 6, 1923. Serial No. 185,369.

PACIFIC RIM

Particular description of goods.—Rim Tools.
Claims use since July 1, 1920.

175,668. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE ARMSTRONG GOLF GRIP CORPORATION, Baltimore, Md. Filed Aug. 16, 1923. Serial No. 184,537.

CORRECT GRIP

Particular description of goods.—Golf Grips.
Claims use since May 12, 1922.

175,669. (CLASS 45. BEVERAGES, NONALCOHOLIC.) THE PURITY PRODUCTS CO., Highland Park, Mich. Filed Aug. 15, 1923. Serial No. 184,515.

FRUIT-ALES

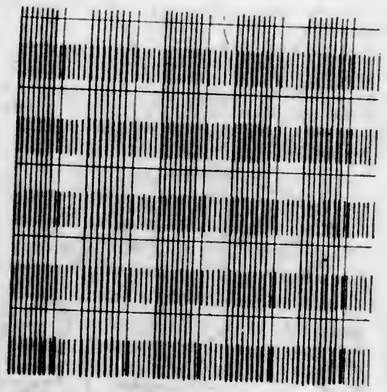
Particular description of goods.—Nonalcoholic, Nonceral, Maltless Beverages Sold as Soft Drinks and Sirups for Making Same.
Claims use since June 1, 1919.

175,670. (CLASS 7. CORDAGE.) THE PORTLAND CORDAGE CO., Portland, Oreg. Filed Aug. 4, 1923. Serial No. 184,098.

"MALAYSIA"

Particular description of goods.—Rope and Twine Made from Hard Fiber.
Claims use since April, 1920.

175,671. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ARMAND COMPANY, Des Moines, Iowa. Filed Aug. 4, 1923. Serial No. 184,055.



Particular description of goods.—Face Powder, Talcum Powder, Cold-Cream Face Powder, Rouge, Vanishing Cream, Cold Cream, Lip Stick, Shampoo Preparations, Perfumes, Complexion Creams, Hand Lotions, and Toilet Waters.
Claims use since May 29, 1916, on face powder and talcum powder; since July 27, 1916, on cold-cream face powder, rouge, vanishing cream, cold cream, lip stick, shampoo preparations, perfumes, complexion creams, hand lotions, and toilet waters.

175,672. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIAM L. PROCUNIER, Chicago, Ill. Filed July 31, 1923. Serial No. 183,887.

PROCUNIER

Particular description of goods.—Tapping Chucks, Tap Holders, and Tapping Attachments.
Claims use since May 16, 1921.

175,673. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PARISTYLE NOVELTY CO., INC., New York, N. Y. Filed July 27, 1923. Serial No. 183,758.

GLOBE

Particular description of goods.—Hair Nets.
Claims use since June, 1922.

175,674. (CLASS 43. BEVERAGES, NONALCOHOLIC.) FRANK F. PASCH CO., Milwaukee, Wis. Filed July 18, 1923. Serial No. 183,403.



Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink and Sirups for Making Same.
Claims use since Aug. 1, 1920.

175,675. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REUBEN WORNOW, New York, N. Y. Filed June 27, 1923. Serial No. 182,528.



Particular description of goods.—Ointment for Sore, Tired, Sweating Feet.
Claims use since June 1, 1920.

175,676. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REMINGTON SALT COMPANY, Ithaca, N. Y. Filed June 18, 1923. Serial No. 182,183.

CORNELL

Particular description of goods.—Salt.
Claims use since about March, 1916.

175,677. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FORD FLOUR COMPANY, Wilmington, Del., and Nashville, Tenn. Filed Apr. 24, 1923. Serial No. 179,593.



Particular description of goods.—Wheat Flour.
Claims use since Feb. 20, 1922.

175,678. (CLASS 37. PAPER AND STATIONERY.) MID-STATES GUMMED PAPER CO., Chicago, Ill. Filed Apr. 4, 1923. Serial No. 178,564.

Stick Quick

Particular description of goods.—Gummed Paper Tape, Cloth Tape, and Cloth Sheets.
Claims use since 1916.

175,679. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BURNY BROTHERS, Chicago, Ill. Filed Mar. 27, 1923. Serial No. 178,087.



Particular description of goods.—Baker's Bread.
Claims use since 1921.

175,680. (CLASS 45. BEVERAGES, NONALCOHOLIC.) THE K & H PRODUCTS COMPANY, Chicago, Ill. Filed Mar. 5, 1923. Serial No. 177,003.

TAKEALONG

Particular description of goods.—Flavored Powders from Which Nonalcoholic, Maltless Soft Drinks are Made.
Claims use since July 20, 1922.

175,681. (CLASS 45. BEVERAGES, NONALCOHOLIC.) THE K & H PRODUCTS COMPANY, Chicago, Ill. Filed Mar. 5, 1923. Serial No. 177,002.



The vertical sectioning represents the color red, while the cross sectioning is merely for shading purposes.
Particular description of goods.—A Nonalcoholic, Maltless Beverage Sold as a Soft Drink.
Claims use since Sept. 15, 1922.

175,682. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SACO VALLEY CANNING CO., Portland, Me. Filed Feb. 24, 1923. Serial No. 176,573.

SACO.

Particular description of goods.—Canned Vegetables.
Claims use since 1914.

175,683. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WOLF, SAYER & HELLER, INC., Chicago, Ill. Filed Feb. 19, 1923. Serial No. 176,304.

Josef Mayer's Münchner Bratwurst Gewürz

Particular description of goods.—Seasonings for Meat Products.
Claims use since January, 1922.

175,684. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE FRANK GOETZ BAKERY COMPANY, New Haven, Conn. Filed Feb. 17, 1923. Serial No. 176,176.

Chocolate Wheats

Particular description of goods.—Biscuits and Crackers.
Claims use since 1920.

175,685. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich. Filed Feb. 8, 1923. Serial No. 175,698.

BROSE

Particular description of goods.—Breakfast Cereals.
Claims use since Feb. 1, 1914.

175,686. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. ALLEN SMITH & COMPANY, Knoxville, Tenn. Filed Jan. 24, 1923. Serial No. 175,036.



Particular description of goods.—Flour.
Claims use since Jan. 1, 1921.

175,687. (CLASS 2. RECEPTACLES.) HENRY E. KONDOLF, New York, N. Y. Filed Sept. 4, 1923. Serial No. 185,299.

KopaK
SOLID BODY BOX

Particular description of goods.—Shipping Boxes and Shipping Containers.
Claims use since about Jan. 15, 1922.

175,688. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. G. WOOL PACKING COMPANY, San Jose, Calif. Filed Aug. 14, 1923. Serial No. 184,485.

Wool's

Particular description of goods.—Canned Fruit.
Claims use since Mar. 8, 1922.

175,689. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE UNIVERSAL VALVE COMPANY, New Britain, Conn. Filed July 17, 1923. Serial No. 183,351.

SIMPLEX

Particular description of goods.—Flush Valves, Metering Type.
Claims use since April, 1922.

175,690. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) JAMES E. BROWN, doing business as Swansdown Sanitary Garment Company, Detroit, Mich. Filed July 16, 1923. Serial No. 183,248.



The drawing is lined to denote the color of blue.
Particular description of goods.—Sanitary Napkins.
Claims use since Jan. 1, 1922.

175,691. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) JACOB BRENNER, Fond du Lac, Wis. Filed July 10, 1923. Serial No. 183,019.

STEEL-WELD

Particular description of goods.—Furnaces.
Claims use since April, 1921.

175,692. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PYRAMID PAINT CO., Philadelphia, Pa. Filed July 7, 1923. Serial No. 182,932.

KANT-KOROD

Particular description of goods.—Ready-Mixed Paints.
Claims use since June 11, 1911.

175,693. (CLASS 12. CONSTRUCTION MATERIALS.) FISKE & COMPANY, INC., Boston, Mass. Filed June 21, 1923. Serial No. 182,298.

FISKE

Particular description of goods.—Bricks.
Claims use since May 4, 1921.

175,694. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOSIAH H. CROCKER, doing business as Pingo Company, Cambridge, Mass. Filed May 26, 1923. Serial No. 181,175.

STOVWAX

Particular description of goods.—Stove Polishes.
Claims use since Nov. 1, 1920.

175,695. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) ASSOCIATED TIRE STORES CORPORATION, New York, N. Y., assignors to Century-Plainfield Rubber Company, Plainfield, N. J. Filed May 17, 1923. Serial No. 180,735.

Just a real good tire

Particular description of goods.—Solid and Pneumatic Rubber Tires and Tubes.
Claims use for not less than one year

175,696. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) GEO. A. TERRY MFG. CO. INC., Buffalo, N. Y. Filed Apr. 14, 1923. Serial No. 179,173.

TruCut

Particular description of goods.—Dental Burs.
Claims use since Feb. 13 1917.

175,697. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) GEO. A. TERRY MFG. CO. INC., Buffalo, N. Y. Filed Apr. 14, 1923. Serial No. 179,172.

TERRY

Particular description of goods.—Dental Burs and Dental Hand Pieces.
Claims use since September, 1910.

175,698. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MRS. PORTER'S SALAD DRESSING, INC., Seattle, Wash. Filed Apr. 4, 1923. Serial No. 178,567.

Mrs. Porter's

Particular description of goods.—Mayonnaise and Salad and Thousand Island Dressings.
Claims use since Jan. 1, 1908.

175,699. (CLASS 12. CONSTRUCTION MATERIALS.) CHESTER R. COX, Berkeley, Calif. Filed Jan. 18, 1923. Serial No. 175,006.

PEERLESS

Particular description of goods.—Built-in Furniture—Namely, Ironing Boards, Ironing-Board Cabinets, Wall Seats, Wall Tables, Table Cabinets, Telephone Cabinets, Bathroom Cabinets, Medicine Cabinets, Storage Closets, Cooler Closets, Broom Closets, and Cupboards.
Claims use since Mar. 1, 1915.

175,700. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FORD FLOUR COMPANY, INC., Wilmington, Del., and Nashville, Tenn. Filed Nov. 21, 1922. Serial No. 172,327.

WILL RISE

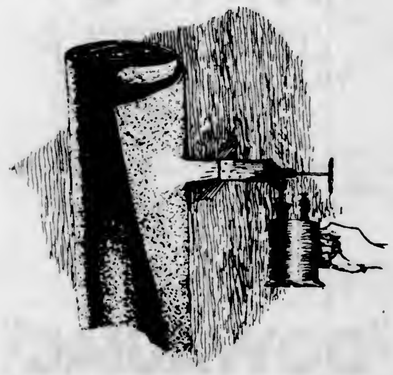
Particular description of goods.—Self-Rising Flour.
Claims use since July, 1922.

175,701. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) ALBERT P. ROBINSON, Seattle, Wash. Filed Jan. 17, 1922. Serial No. 158,056.

TRISTOP

Particular description of goods.—Cast Iron and Steel Fireplace Throat Frames and Dampers.
Claims use since Aug. 15, 1921.

175,702. (CLASS 12. CONSTRUCTION MATERIALS.) JOHNS-MANVILLE INCORPORATED, New York, N. Y. Filed Oct. 19, 1921. Serial No. 154,313.



Particular description of goods.—Roofing and Shingles Composed of Asbestos and Other Mineral Constituents.
Claims use since Sept. 29, 1921.

175,703. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) METAL SPECIALTIES MANUFACTURING COMPANY, Chicago, Ill. Filed July 25, 1921. Serial No. 150,916.

Presto Alweather

Particular description of goods.—Protectors (for Use on Automobiles) Against Draft or Cold or Hot Air Currents.
Claims use since on or about July 1, 1917.

175,704. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 8, 1921. Serial No. 145,899.

BUY IT BY THE POUND FROM A PUMP

Particular description of goods.—Lubricants.
Claims use since Mar. 18, 1921.

175,705. (CLASS 39. CLOTHING.) BLOOM & PERLA, New York, N. Y. Filed Jan. 17, 1923. Serial No. 174,688.

Standware

Particular description of goods.—Dress, Negligee, and Work Shirts.
Claims use since Sept. 15, 1914.

175,706. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn. Filed Dec. 15, 1922. Serial No. 173,383.

Pillsbury's KANSAS

Particular description of goods.—Wheat Flour.
Claims use since on or about July 15, 1922.

175,707. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUPPLEE WILLS-JONES MILK COMPANY, Philadelphia, Pa. Filed Oct. 30, 1922. Serial No. 171,391.

GOLD

MEDAL

Particular description of goods.—Raw Milk, Pasteurized Milk, Certified Milk, and Buttermilk.
Claims use since 1911.

175,708. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CABARRUS COTTON MILLS, Kannapolis, N. C. Filed Oct. 18, 1922. Serial No. 170,864.

CABARRUS

Particular description of goods.—Cotton Piece Goods, Sheets, and Pillowcases.
Claims use since Sept. 7, 1922.

175,709. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ROBERT LEE WOODRUFF, doing business as Woodruff Hardware Co., Winder, Ga. Filed Sept. 14, 1922. Serial No. 169,463.

The Woodruff

The Woodruff Way
Puts it on the Cotton
NOT IN THE AIR

Particular description of goods.—Insect-Destroying Machine, Particularly for a Machine for Spraying a Powdered Poison.
Claims use since May, 1922.

175,710. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) U. R. S. CANDY STORES, INC., New York, N. Y. Filed Aug. 19, 1922. Serial No. 168,502.

"Happiness in Every Box"

Particular description of goods.—Candy.
Claims use since 1910.

175,711. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDWARD F. STEINER, Baltic, Ohio. Filed Aug. 19, 1922. Serial No. 168,495.

EDSTEINER GOLD MEDAL CHEESE

Particular description of goods.—Cheese.
Claims use since June 14, 1922.

175,712. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL LEON GRAVIN, doing business as Gravin Laboratories, New York, N. Y. Filed Aug. 16, 1922. Serial No. 168,298.

Professor Gravin's KURE-WEL

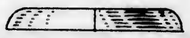
Particular description of goods.—Preparation for the Treatment of Piles, Tumors, Eczema, and All Skin Eruptions.
Claims use since Aug. 3, 1922.

175,713. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JAMES HEDDON'S SONS, Dowagiac, Mich. Filed Aug. 11, 1922. Serial No. 168,110.

"DOWAGIAC"

Particular description of goods.—Fish Baits and Lures; Fishing Hooks, Rods, Lines, and Reels.
Claims use since Apr. 2, 1902.

175,714. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE BEATON & CADWELL MANUFACTURING COMPANY, New Britain, Conn. Filed Aug. 2, 1922. Serial No. 167,708.



Particular description of goods.—Floor and Ceiling Plates.
Claims use since Oct. 13, 1912.

175,715. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BARRINGTON PACKING CO., Barrington, Ill. Filed Aug. 10, 1922. Serial No. 168,019.

DUROC JERSEY'S
BRAND

Particular description of goods.—Hams and Bacon.
Claims use since May 1, 1922.

175,716. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MISSOURI EGG & POULTRY COMPANY, Sedalia, Mo. Filed July 10, 1922. Serial No. 166,702.

E P C
PERFEXION

Particular description of goods.—Eggs, Powdered and Dried Eggs, and Creamery Butter.
Claims use since on or about Jan. 15, 1922.

175,717. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MISSOURI EGG & POULTRY COMPANY, Sedalia, Mo. Filed July 10, 1922. Serial No. 166,701.

E P C
STANDARD

Particular description of goods—Eggs in Their Shells, Creamery Butter, and Powdered and Dried Eggs.
Claims use since on or about Jan. 15, 1922.

175,718. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK R. BROWN, Columbus, Ohio. Filed June 23, 1922. Serial No. 165,909.

FROZEN SUCKERS

Particular description of goods.—Ice-Cream Confections.
Claims use since May 2, 1922.

175,719. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PORTLAND VEGETABLE OIL MILLS CO., Portland, Oreg. Filed May 22, 1922. Serial No. 164,260.

NUTCAKE

Particular description of goods.—Coconut-Oil Cake, Stock and Poultry Feed and Meal.
Claims use since Feb. 27, 1922.

175,720. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ODORONO COMPANY, Cincinnati, Ohio. Filed May 4, 1922. Serial No. 163,349.

THE UNDERARM TOILETTE

Particular description of goods.—Preparations for Reducing Perspiration.
Claims use since Feb. 1, 1922.

175,721. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THEODORE W. DAHLQUIST, doing business as Dahlquist Manufacturing Company, South Boston, Mass. Filed Mar. 16, 1922. Serial No. 160,755.

DAHLQUIST

Particular description of goods.—Expansion Joints, Kettles, Floats, and Boiler Stands and Sinks.
Claims use since 1899.

175,722. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GORDON SMITH, Mobile, Ala. Filed Jan. 25, 1922. Serial No. 158,457.

BETTA
BREAD

Particular description of goods.—Bread.
Claims use since Dec. 12, 1921.

175,723. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALKER-MATTESON COMPANY, Joliet, Ill. Filed Aug. 25, 1921. Serial No. 152,194.

JOLIET

Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Fish, Mustard, Catchup, Chili Sauce, Worcester Sauce, Rolled Oats, Oatmeal, and Flavoring Extracts for Foods, Codfish, Preserved and Dried or Evaporated Fruits, Wheat Flour, Coffee, Tea, Pepper, Olives, Peanut Butter, Extracts for Foods, Alimentary Paste Products, Jams, Fruit Preserves, Jellies, Molasses, Table Sirups, Gelatin, Pickles, Salad Dressing, Pimentos, Condensed Milk, Shelled Nuts, Mincemeat, Olive Oil, and Corn Meal, Pork and Beans.

Claims use since Jan. 1, 1917.

175,724. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SKIN CURA CO., INC., Cody, Wyo. Filed May 7, 1921. Serial No. 147,375.

SKIN-CURA

Particular description of goods.—Ointment for the Lips, Sunburn, Skin Abrasions, and Cold Cream for Cleansing and Beautifying the Skin.

Claims use since Nov. 15, 1920.

PRINTS

REGISTERED NOVEMBER 6, 1923.

6,953.—*Title:* PROTECTA. For Table Mats. A. & W. PRODUCTS COMPANY, Cleveland, Ohio. Published June 23, 1923.

6,954.—*Title:* HEADLIGHTING SATISFACTION. For Tilting Reflectors for Controlling the Positions of Headlight Beams from Light-Projecting Devices. THE FEDERAL MANUFACTURING COMPANY, Columbus, Ohio. Published August 17, 1923.

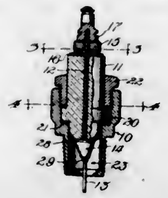
6,955.—*Title:* THE MOTORISTS' ELEVENTH COMMANDMENT—THOU SHALT NOT GLARE! For Tilting Reflectors for Controlling the Positions of Headlight Beams from Light-Projecting Devices. THE FEDERAL MANUFACTURING COMPANY, Columbus, Ohio. Published August 17, 1923.

6,956.—*Title:* SCHULZE'S CAKE EIGHT VARIETIES. For Cake. SCHULZE BAKING CO., Chicago, Ill. Published July 25, 1923.

REISSUES

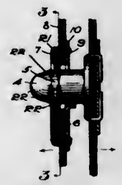
NOVEMBER 6, 1923.

15,713. SPARK PLUG. OGLESBY ALLEN, Jr., Chicago, Ill., assignor to Allen Specialty Company, Chicago, Ill., a Corporation of Illinois. Filed July 30, 1923. Serial No. 654,719. Original No. 1,394,523, dated Oct. 25, 1921, Serial No. 381,934, filed May 17, 1920. 3 Claims. (Cl. 123—169.)



1. A spark plug, comprising a shell, an insulator within said shell and terminating above the inner end thereof, so that an open chamber is left at the inner end of the shell, a terminal rod extending through said insulator and projecting beyond the inner end of the shell, and an inwardly tapering or conical metallic carbon-rejecting element surrounding said terminal, said element having greater heat conductivity than said terminal and having a highly polished surface.

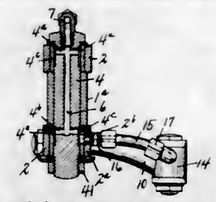
15,714. SEPARABLE FASTENER. MOSES F. CARR, Lexington, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed July 28, 1923. Serial No. 654,498. Original No. 1,433,785, dated Oct. 31, 1922, Serial No. 450,753, filed Mar. 8, 1921. 6 Claims. (Cl. 24—218.)



1. A separable fastener comprising, in combination, a stud having a head and a neck presenting a shoulder between them, and a socket having a spring-containing cascasing, said casing apertured to permit passage of the head of the stud therethrough and presenting above the stud an unyielding neck-engaging jaw, a resilient jaw opposing said unyielding jaw, said yielding jaw formed by a terminal portion of said spring, and spring-retaining portions 24 thrown inwardly from the periphery of said casing to support said yielding jaw.

15,715. MEANS FOR LUBRICATING STEERING KNUCKLES AND OTHER PARTS OF VEHICLES. FREDERICK H. GLEASON, Auburn, N. Y. Filed May 17, 1923. Serial No. 639,682. Original No. 1,388,945, dated Aug. 30, 1921, Serial No. 438,064, filed Jan. 18, 1921. 12 Claims. (Cl. 64—27.)

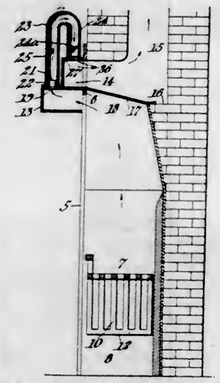
6. The combination of an axle, a steering knuckle, a bolt pivotally connecting the same and provided with a bore communicating with its exterior, a supply fitting communicating with said bore, said knuckle having an arm, a tie-rod, a bolt pivotally connecting the arm and tie-rod, said arm having a fitting communicating with last-named bolt, and a conduit connecting said fittings.



15,716. PROCESS FOR THE MANUFACTURE OF YEAST. FRIEDRICH HAYDUCK, Wilmersdorf, Germany, assignor to The Fleischmann Company, New York, N. Y., a Corporation of Ohio. Filed July 20, 1923. Serial No. 652,818. Original No. 1,449,111, dated Mar. 20, 1923, Serial No. 420,838, filed Oct. 30, 1920. (Original granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.) 4 Claims. (Cl. 195—20.)

1. The process of manufacturing yeast which comprises causing yeast to undergo a preliminary fermentation in an aqueous nutrient solution comprising sugar material and inorganic yeast nutrient salts, permitting the accumulation of liberated acid during such preliminary fermentation to an extent sufficient to afford substantial protection for the yeast against infecting micro-organisms, and thereafter using the treated yeast as seed yeast for propagating purposes in a nutrient solution comprising sugar material and inorganic yeast nutrient salts; the propagation being effected with neutralization of at least a substantial portion of the liberated acid.

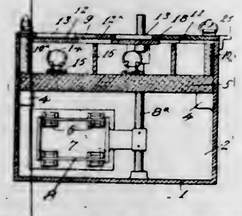
15,717. HEATING DEVICE FOR OPEN FIREPLACES. JAMES S. NICHOLS, Atlanta, Ga., assignor to Nic-Heater Corporation, Atlanta, Ga., a Corporation of Georgia. Filed Mar. 1, 1923. Serial No. 622,210. Original No. 1,370,348, dated Mar. 1, 1921, Serial No. 302,456, filed June 7, 1919. 12 Claims. (Cl. 126—120.)



3. A heating device for application to an open fireplace above a grate, consisting of a main inclosure with an inner vertical extension, the inclosure and extension be-

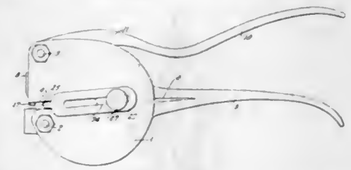
ing open at the rear, elbow heat radiating means for circulation of the products of combustion therethrough connected to the outer top portion of the inclosure and to the top of the extension, a baffle plate extending into and separating the extension from the inclosure, and damper means between the elbow heat radiating means and the outer portion of the inclosure.

15,718. SAFETY BOX FOR ELECTRIC INSTALLATION. GEORGE B. WADSWORTH, Covington, Ky., assignor, by direct and mesne assignments, to The Wadsworth Electric Manufacturing Company, Covington, Ky., a Corporation of Kentucky. Filed Sept. 26, 1923. Serial No. 665,029. Original No. 1,403,659, dated Jan. 17, 1922, Serial No. 114,325, filed Aug. 11, 1916. 3 Claims. (Cl. 200—50.)



3. In a switch box, mutually inaccessible switch and fuse compartments, a switch and a fuse in its respective compartment, a rotatable operating member for the switch, said box having an opening for access to the fuse compartment, a shutter moving in the plane of the box about said hole and closely adjacent thereto and adapted to block and unblock said hole, said shutter being free of direct connection to the switch, and means on the operating member and the shutter to enforce a closed position of the shutter in all closed positions of the switch.

15,719. PUNCH. WILLIAM A. WHITNEY, Rockford, Ill., assignor to Frank Vander Bogart and Hiram A. Merllen, both of Rockford, Ill. Filed Apr. 12, 1923. Serial No. 631,721. Original No. 1,376,492, dated May 3, 1921, Serial No. 318,262, filed Aug. 18, 1919. 20 Claims. (Cl. 164—120.)

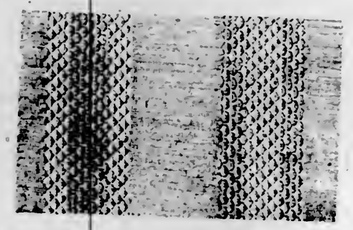


1. In a device of the class described, a first handle; a second handle bifurcated to form a head and a resilient jaw located between the head and the first handle; a frame whereunto the first handle and the head are pivoted; a punch carried by the jaw and cooperating with the head; and means for connecting the jaw with the first handle.

DESIGNS

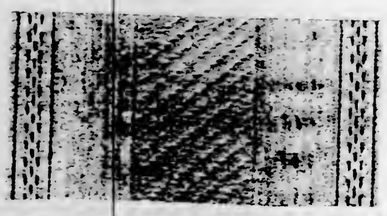
NOVEMBER 6, 1923.

63,212. BEDSPREAD. ALBERT W. BAYLIS, Bay Shore, N. Y. Filed Mar. 23, 1923. Serial No. 5,561. Term of patent 7 years.



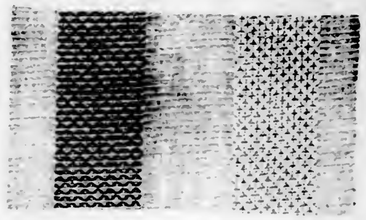
The ornamental design for a bedspread, as shown.

63,213. BEDSPREAD. ALBERT W. BAYLIS, Bay Shore, N. Y. Filed Mar. 23, 1923. Serial No. 5,562. Term of patent 7 years.



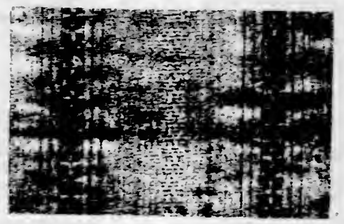
The ornamental design for a bedspread, as shown.

63,214. BEDSPREAD. ALBERT W. BAYLIS, Bay Shore, N. Y. Filed Mar. 23, 1923. Serial No. 5,565. Term of patent 7 years.



The ornamental design for a bedspread, as shown.

63,215. BEDSPREAD. ALBERT W. BAYLIS, Bay Shore, N. Y. Filed Mar. 23, 1923. Serial No. 5,568. Term of patent 7 years.



The ornamental design for a bedspread, as shown.

63,216. BEDSPREAD. ALBERT W. BAYLIS, Bay Shore, N. Y. Filed Mar. 23, 1923. Serial No. 5,569. Term of patent 7 years.



The ornamental design for a bedspread, as shown.

63,217. PLATE OR SIMILAR ARTICLE OF MANUFACTURE. MARTHA HALOWELL CONNOR, Baltimore, Md., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md., a Corporation of New Jersey. Filed Apr. 4, 1923. Serial No. 5,690. Term of patent 3½ years.



The ornamental design for a plate or similar article of manufacture as shown and described.

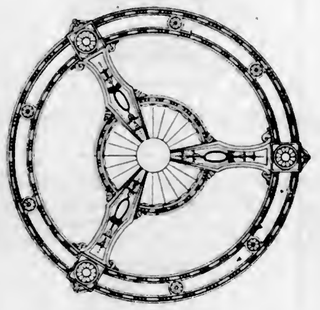
63,218. PLATE OR SIMILAR ARTICLE OF MANUFACTURE. MARTHA HALOWELL CONNOR, Baltimore, Md., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md., a Corporation of New Jersey. Filed Apr. 4, 1923. Serial No. 5,691. Term of patent 3½ years.



The ornamental design for a plate or similar article of manufacture as shown and described.

63,219. RING FOR LIGHTING FIXTURES. THURE DAHL, New York, N. Y. Filed Dec. 2, 1921. Serial No. 519,518. Term of patent 3½ years.





The ornamental design for a ring for lighting fixtures as shown.

63,220. BELT-BUCKLE FRAME. EARL M. DAVIS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Oct. 7, 1921. Serial No. 506,192. Term of patent 3½ years.



The ornamental design for a belt buckle frame, as shown.

63,221. BELT-BUCKLE FRAME. EARL M. DAVIS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Oct. 7, 1921. Serial No. 506,198. Term of patent 3½ years.





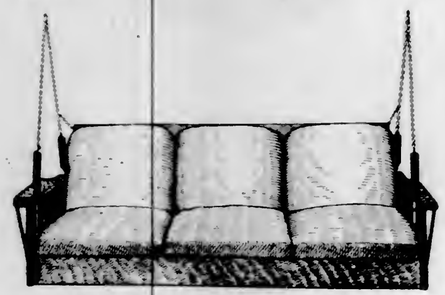
The ornamental design for a belt buckle frame, as shown.

63,222. BELT-BUCKLE FRAME. EARL M. DAVIS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Oct. 7, 1921. Serial No. 506,199. Term of patent 3½ years.



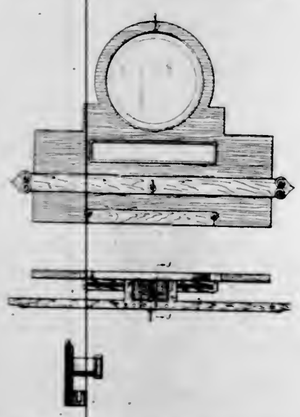
The ornamental design for a belt buckle frame, as shown.

63,223. COUCH HAMMOCK. BENJAMIN B. ENGLANDER, Brooklyn, N. Y., assignor to Englander Spring Bed Company, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 24, 1922. Serial No. 334. Term of patent 3½ years.



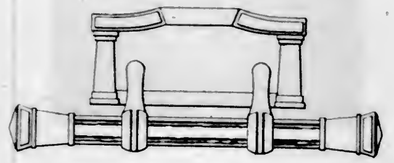
The ornamental design for a couch hammock, substantially as shown.

63,224. CONTAINER FOR TOILET ARTICLES. ROBERT P. GROSS, Los Angeles, Calif. Filed Sept. 5, 1922. Serial No. 3,634. Term of patent 14 years.



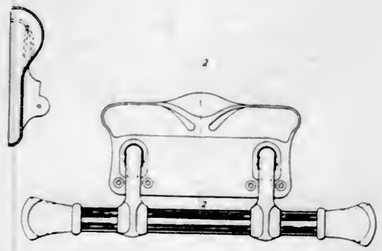
The ornamental design for a container for toilet articles, as shown.

63,225. CASKET HANDLE. HAROLD W. HODGETTS, Springfield, Mass., assignor to The Allen Company, a Copartnership consisting of Harold W. Hodgetts and Clarence W. Allen, both of Springfield, Mass. Filed Sept. 11, 1922. Serial No. 3,677. Term of patent 3½ years.



The ornamental design for a casket handle as shown.

63,226. CASKET HANDLE. RAYMOND W. HODGETTS, Springfield, Mass., assignor to The Allen Company, a Copartnership consisting of Harold W. Hodgetts and Clarence W. Allen, both of Springfield, Mass. Filed Oct. 30, 1922. Serial No. 4,163. Term of patent 3½ years.

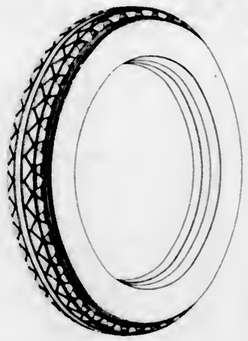


The ornamental design for a casket handle as shown.

63,227. AUTOMOBILE TIRE. HARRY C. HOWER, Chicago, Ill. Filed May 28, 1923. Serial No. 6,299. Term of patent 3½ years.

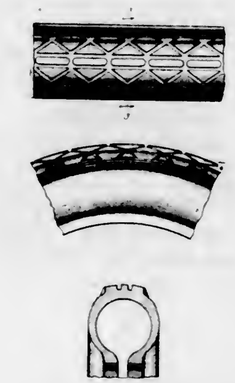


63,227



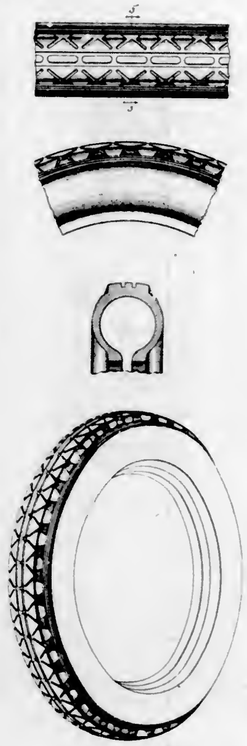
The ornamental design for an automobile tire, as shown.

63,228. AUTOMOBILE TIRE. HARRY C. HOWER, Chicago, Ill. Filed May 28, 1923. Serial No. 6,300. Term of patent 3½ years.



The ornamental design for an automobile tire, as shown.

63,229. AUTOMOBILE TIRE. HARRY C. HOWER, Chicago, Ill. Filed May 28, 1923. Serial No. 6,301. Term of patent 3½ years.



The ornamental design for an automobile tire, as shown.

63,230. LENS FOR AN AUTOMOBILE LAMP. THOMAS C. IGO, Cleveland, Ohio. Filed May 24, 1921. Serial No. 472,266. Term of patent 3½ years.



The ornamental design for a lens for an automobile lamp, as shown.

63,231. COWL LAMP. EDWARD KAVANAGH, Chicago, Ill. Filed Jan. 12, 1922. Serial No. 185. Term of patent 3½ years.



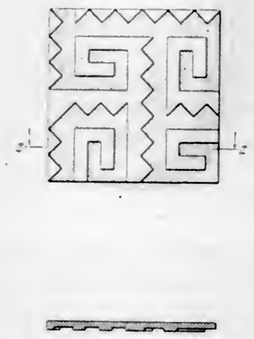
The ornamental design for a cowl lamp, as shown.

63,232. TOY CLOWN. THEODORE F. KOTTER, Hollis, N. Y. Filed Mar. 30, 1923. Serial No. 5,645. Term of patent 3½ years.



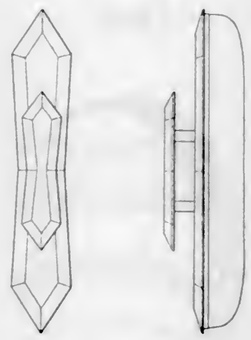
The ornamental design for a toy clown as shown and described.

63,233. BUILDING TILE. QUINTUS MONIER, Tucson, Ariz. Filed Apr. 24, 1923. Serial No. 5,926. Term of patent 14 years.



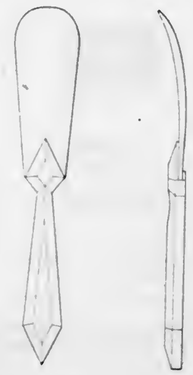
The ornamental design for a building tile, as shown.

63,234. NAIL POLISHER. GEORGE H. NEVIUS, Shrewsbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 26, 1923. Serial No. 5,945. Term of patent 7 years.



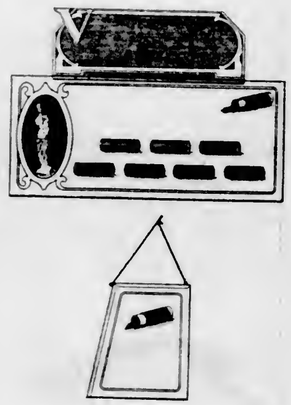
The ornamental design for a nail polisher, as shown.

63,235. SHOEHORN. GEORGE H. NEVIUS, Shrewsbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 26, 1923. Serial No. 5,952. Term of patent 7 years.



The ornamental design for a shoehorn, as shown.

63,236. DISPLAY CABINET. FRANK PFOUS, Coshocton, Ohio, assignor to American Lead Pencil Company, New York, N. Y., a Corporation of New York. Filed Nov. 8, 1922. Serial No. 4,238. Term of patent 7 years.



The ornamental design for a display cabinet, substantially as shown.

63,237. EMBLEM OR BADGE. ROYAL E. RANDALL, Fort Madison, Iowa. Filed Feb. 28, 1923. Serial No. 5,325. Term of patent 3½ years.



The new and original design for an emblem or badge, as shown.

63,238. BOTTLE. CHAPMAN J. ROOT, Terre Haute, Ind. Filed Nov. 25, 1921. Serial No. 517,779. Term of patent 14 years.



The ornamental design for a bottle, as shown.

63,239. BOTTLE. CHAPMAN J. ROOT, Terre Haute, Ind. Filed Nov. 25, 1921. Serial No. 517,781. Term of patent 14 years.



The ornamental design for a bottle as shown.

63,240. BOTTLE. CHAPMAN J. ROOT, Terre Haute, Ind. Filed Dec. 12, 1921. Serial No. 521,940. Term of patent 14 years.



The ornamental design for a bottle, as shown.

63,241. MESH BAG. HARRY BRADLEY ROWAN, North Attleboro, Mass., assignor to Whiting & Davis Company, a Corporation of Massachusetts. Filed Dec. 30, 1922. Serial No. 4,768. Term of patent 7 years.



The ornamental design for a mesh bag as shown.

63,242. BELT BUCKLE FRAME. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Jan. 28, 1921. Serial No. 440,807. Term of patent 3½ years.



The ornamental design for a belt buckle frame, as shown.

63,243. BELT-BUCKLE FRAME. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Oct. 7, 1921. Serial No. 506,206. Term of patent 3½ years.



The ornamental design for a belt buckle frame, as shown.

63,244. BELT-BUCKLE FRAME. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Oct. 7, 1921. Serial No. 506,207. Term of patent 3½ years.



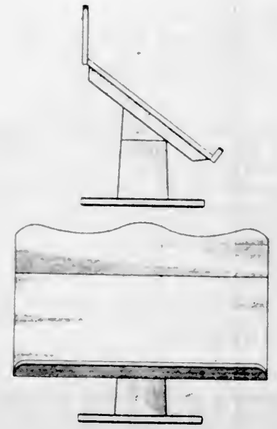
The ornamental design for a belt buckle frame, as shown.

63,245. ARM FOR LIGHTING FIXTURES. ALBERT ULLMAN, Cleveland, Ohio, assignor to Scott-Ullman Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 21, 1922. Serial No. 4,051. Term of patent 3½ years.



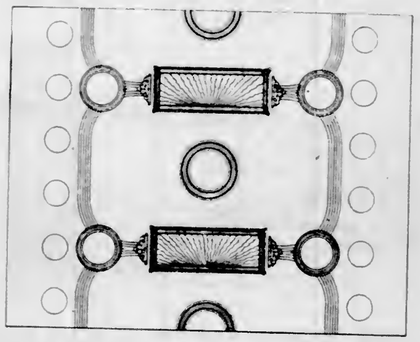
The ornamental design for an arm for lighting fixtures, as shown.

63,246. BOOK-DISPLAY STAND. CARL T. WEIBEZAHN, St. Peter, Minn., assignor to Fort Dearborn Watch & Clock Company, Chicago, Ill., a Corporation of Illinois. Filed July 16, 1921. Serial No. 485,295. Term of patent 3½ years.



The ornamental design for a book display stand, as shown.

63,247. SHEET OF WRAPPING PAPER. ALBERT F. WELLE, St. Louis, Mo., assignor to American Bakery Company, St. Louis, Mo. Filed Mar. 9, 1923. Serial No. 5,425. Term of patent 3½ years.



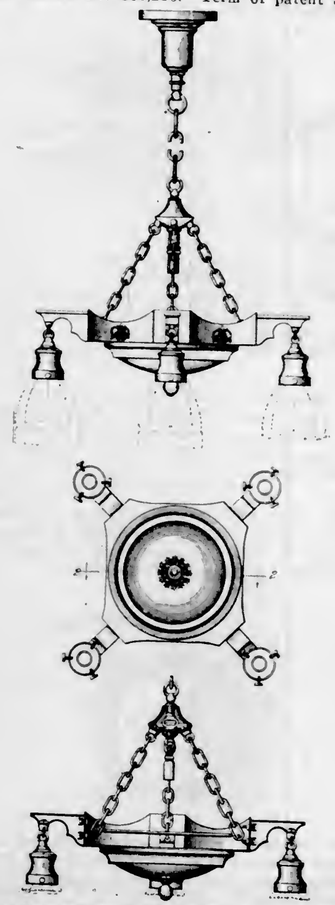
The design for a sheet of wrapping paper substantially as shown.

63,248. BADGE OR EMBLEM. ROBERT L. WEYHING, Detroit, Mich., assignor to Weyhing Bros. Manufacturing Co., Detroit, Mich., a Corporation of Michigan. Filed Apr. 19, 1923. Serial No. 5,855. Term of patent 3½ years.



The ornamental design for a badge or emblem, as shown.

63,249. LIGHTING FIXTURE. FRANK YOKEL, Hartford, Conn., assignor to Dallas Brass & Copper Co., Chicago, Ill., a Corporation of Illinois. Filed May 2, 1921. Serial No. 466,236. Term of patent 3½ years.



The ornamental design for a lighting fixture, as shown.

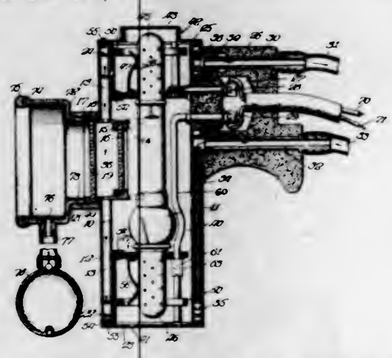
PATENTS

GRANTED NOVEMBER 6, 1923.

1,472,778. METHOD OF PRODUCING NEW ORGANIC ARSENIC COMPOUNDS. AUGUST ALBERT, Munich, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y., a Corporation of New York. Filed Feb. 26, 1923. Serial No. 621,478. 2 Claims. (Cl. 260—14.)

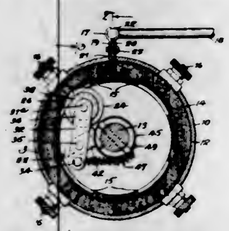
2. Method of producing new organic arsenic compounds consisting in diazotizing aromatic mono- or polyamidized compounds, containing reactive carbonyl groups and treating the resulting body with an arsenite.

1,472,779. THERAPEUTIC APPLIANCE. FRITZ A. ANDERSON, Milton, Wis., assignor to Burdick Cabinet Company, Milton, Wis., a Corporation of Wisconsin. Filed July 6, 1920. Serial No. 394,302. 24 Claims. (Cl. 174—177.)



1. A therapeutic appliance having a casing; a lamp in the casing; means for passing a fluid thru the light field of said lamp and coloring matter in the fluid to filter out or eliminate objectionable rays that emanate from said lamp.

1,472,780. ELECTRIC TIMER. HERLIN M. APPELGATE, Brooklyn, N. Y., assignor of one-half to Irving Warner, New York, N. Y. Filed Sept. 27, 1922. Serial No. 590,865. 8 Claims. (Cl. 200—26.)

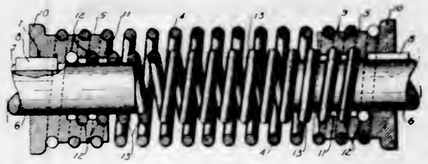


2. In a timer as characterized, the combination with an insulating annular rail having four spaced embedded conductive blocks, each with three exposed faces and each block adapted to be interposed in an electric circuit, of a peripherally grooved conductive roller divided lengthwise into halves, one having a socket and the other having a protruding pin for removable insertion into the socket, and spring controlled conductive means revolvably carrying the roller and adapted to be conductively fastened on the conductive shaft.

1,472,781. WELDING OR SOLDERING COMPOSITION. ABRAHAM BAEWSKIN, Chicago, Ill. Filed Feb. 17, 1923. Serial No. 619,765. 5 Claims. (Cl. 204—29.)

4. A composition of the class described including zinc phosphide, 7 parts; zinc oxide, 3½ parts; sodium bicarbonate, 14 parts; boracic acid, 10½ parts; and vaseline, 10 to 20 parts.

1,472,782. SHAFT COUPLING. ALBERT E. BARBER, Chicago, Ill. Filed Jan. 29, 1920. Serial No. 354,849. 1 Claim. (Cl. 64—96.)



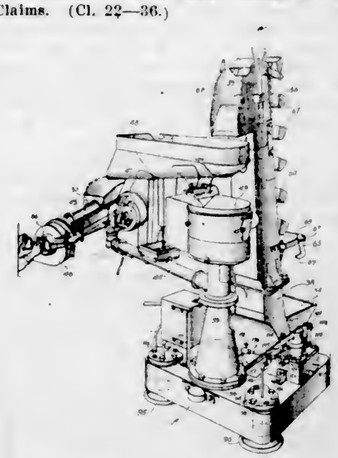
A shaft-coupling comprising exterior and interior oppositely winding helical springs, centrally bored and interiorly and exteriorly threaded bushings for receiving and having frictional engagement solely with the convolutions at the end of said helices, said central bore adapted to receive shafting, and means for preventing relative rotative movement between the shafting and bushings when the same are assembled.

1,472,783. TOY RAILWAY. FREDERICK C. BAUER, Philadelphia, Pa. Filed June 20, 1923. Serial No. 646,528. 8 Claims. (Cl. 104—56.)



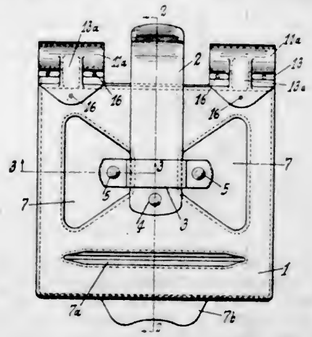
1. In a toy railway, a railway, an elevator, a car, a standard on which said elevator is adapted to travel, a movable platform mounted on said standard, means on said platform adapted to engage said elevator in the ascent of the latter whereby said platform is raised automatically transferring the wheels of the car from the elevator upon said platform and placing the wheels automatically in communication with the adjacent terminal of the railway.

1,472,784. PORTABLE MOLDING MACHINE. ELMER O. BEARDSLEY, Chicago, Ill., assignor to The Beardsley & Piper Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 13, 1922. Serial No. 594,238. 17 Claims. (Cl. 22—36.)



1. The combination with a molding machine comprising a sand projector and mechanism for driving the projector, of a portable supporting base for said machine, adapted to retain itself and the machine therein, stationary wherever it is set on the floor.

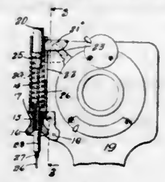
1,472,785. JOURNAL-BOX LID. PETER BENDIXEN, Davenport, Iowa, assignor to Bettendorf Company, Bettendorf, Iowa, a Corporation of Iowa. Filed Jan. 3, 1922. Serial No. 526,698. 3 Claims. (Cl. 64—23.)



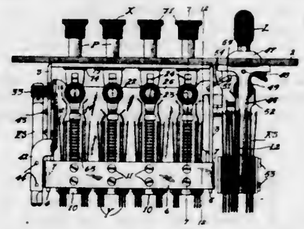
1. A journal-box lid comprising a body, and alined hinge eyes integral with said body and offset therefrom, the off-set portions intermediate said eyes and said body being of double thickness, each thickness of said off-set portions containing stiffening flutes and the layers of each of said doubled portions being connected firmly together.

1,472,786. SHUTTER-ACTUATING MECHANISM. ERIC NELS BERGGREN, Chicago, Ill. Filed Mar. 26, 1921. Serial No. 455,763. 9 Claims. (Cl. 74—39.)

1. A shutter actuating device for a camera having a shutter lever and a supporting bracket, said device comprising a tubular member adapted to be removably clamped on said bracket; a plunger slidably mounted in said tubular member, a lever actuating member extending laterally from said plunger for engaging and actuating said shutter lever, resilient means embracing said plunger for normally retaining said actuating member in released position, and power transmitting means connecting said actuating member and said tubular member with a distant operating member.

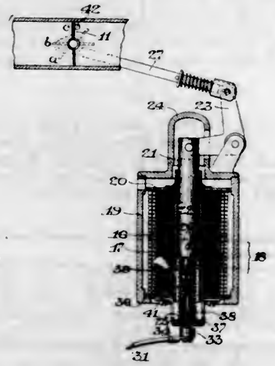


1,472,787. KEY. ERNEST A. BOHLMAN, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 11, 1920. Serial No. 416,184. 13 Claims. (Cl. 179—177.)



6. A device of the character described including a supporting frame, a plurality of reciprocating plungers supported by said frame, rectangular slots in said frame in which said plungers are mounted and held against rotary movement relative to the mounting frame, a spring supporting plate secured to said frame independently and free from said plungers, and a removable unit consisting of a plurality of switch springs for each of said plungers attached to said spring supporting plate.

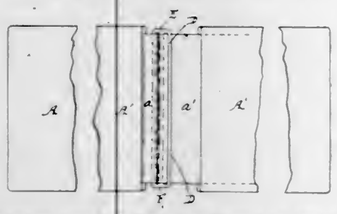
1,472,788. REGULATOR FOR GENERATORS. ANTON FRANK BROTZ, Kohler, Wis., assignor to Kohler Company, Kohler, Wis., a Corporation of Wisconsin. Filed Aug. 4, 1921. Serial No. 489,830. 6 Claims. (Cl. 290—40.)



1. In combination with a solenoid-operated throttle-control for varying the speed of a gas engine according to the load on the mains of a gas-engine-driven gener-

ator plant, a switch opened by the solenoid core by movement thereof beyond the position in which it closes the throttle, and a regulating resistance in series with the shunt field winding of the generator and normally short circuited by the switch.

1,472,789. PROTECTOR COVERING FOR LOOSE-LEAF ACCOUNT AND LIKE BOOKS. CHARLES HENRY BULL, Gisborne, New Zealand. Filed Aug. 8, 1922. Serial No. 580,385. 1 Claim. (Cl. 281—34.)



A protector covering for books formed by two members made of canvas or like material and of envelope form adapted to slip over the respective covers of the book and with flap extensions beyond their inner edges, and a buckle fastening for securing the said flaps together made with a central and two side parallel bars, enclosing slots between them, to one of which side bars one of the flaps is permanently attached, substantially as specified.

1,472,790. MANUFACTURE OF SULPHURIC ANHYDRIDE. MARCH P. CHASE, Washington, D. C., and FREDERIC E. PIERCE and JOHN SKOGMARK, New York, N. Y., assignors to The Cos Process Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 24, 1918. Serial No. 255,418. 9 Claims. (Cl. 23—1.)

2. The process of manufacturing sulphuric anhydride which consists in circulating a mixture containing sulphur dioxid, oxygen and diluent gases in substantially constant proportions into repeated contact with a catalyzer while removing the product of the catalytic conversion.

1,472,791. PROCESS OF MANUFACTURING AMMONIUM PICRAMATE. WILLIAM M. DEHN, Seattle, Wash. Filed Jan. 9, 1920. Serial No. 350,313. 10 Claims. (Cl. 260—130.5.)

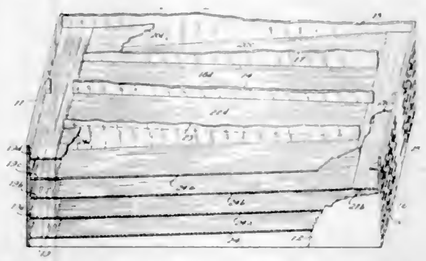
1. The process of making ammonium picramate, which comprises reacting on picric acid with a water solution of ammonia less in amount than would be required to completely neutralize the picric acid, and thereafter reacting on unchanged picric acid and the products of the first reaction with a water solution of ammonium sulfid.

1,472,792. TURNTABLE. ADIEL Y. DODGE, Racine, and ROBERT J. STATZ, Wind Point, Racine, Wis., assignors to Freeman Manufacturing Company, Racine, Wis., a Corporation of Wisconsin. Filed Apr. 5, 1923. Serial No. 629,984. 16 Claims. (Cl. 104—44.)



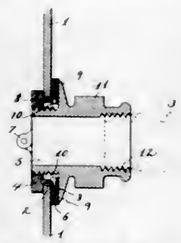
1. A portable turntable comprising a base slidable on the roadway, a fulcrum member and a stop member spaced from said fulcrum member, said fulcrum member and said stop member both being mounted on said slidable base and rotatable together about a vertical axis, and a runway for a truck tiltably mounted on said fulcrum, and tiltable from a position in which one end of the runway is low enough for the truck to drive onto the runway, to a position in which the runway engages the stop member and is held in substantially horizontal position, whereby when the truck is driven onto the runway, the runway will automatically tilt to a horizontal position in which it is held by said stop member, when the center of gravity of the truck passes the fulcrum member.

1,472,793. GARAGE. BENJAMIN F. FITCH, Evanston, Ill. Filed July 6, 1921. Serial No. 482,664. 7 Claims. (Cl. 20—1.13.)



1. A garage having a plurality of ramps inclining in opposite directions and means on the ramps defining diagonal parking spaces and extending in such direction that the floor of the parking space inclines upwardly toward the entrance to such space.

1,472,794. DEVICE FOR CONNECTING PIPES TO BOILERS. TIMOTHY J. FOLEY, New York, N. Y. Filed July 20, 1921. Serial No. 486,109. 1 Claim. (Cl. 285—51.)

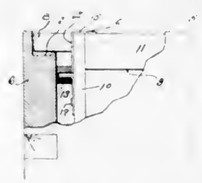


In a device of the character set forth, a ring screw-threaded internally and divided diametrically into sections hinged to fold one upon the other for insertion through an opening of less diameter than said ring, spurs on said ring adapted to be bent outwardly upon the exterior margin of such opening, a gasket adapted to apply upon such margin and having recesses receiving said bent spurs, a nipple screwthreaded externally and adapted to engage said ring in the unfolded condition, and a flange on said nipple adapted to compress said gasket.

1,472,795. FRAME METAL SHOULDER. GORDEN FRATER, Watertown, Wis., assignor to G. B. Lewis Company, Watertown, Wis., a Corporation of Wisconsin. Filed Jan. 3, 1922. Serial No. 526,618. 4 Claims. (Cl. 6—10.)

3. In a bee hive frame including a top bar and an end bar, and a resilient connection between the top and end bars.

4. In a bee hive frame having an end bar and a top bar carrying a butt portion extended beyond the end bar for engagement with a hive part to suspend the frame therein, means for connecting the end and top bars, comprising a sheet metal strip having an opening of a size to pass over the top bar butt portion, a top bar attaching portion directed laterally from a point adjacent the outer end of said opening, means securing said



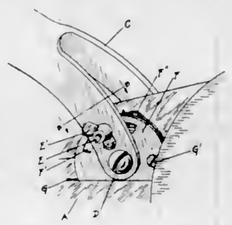
attaching portion to the top bar, means securing the end portion of the strip remote from the top bar attaching portion to the end bar, and resilient means formed in the strip intermediate both of said securing means whereby a resilient connection is formed between the bars.

1,472,796. SUPPORTER. E. F. LEWIS FRITZ, Chicago, Ill. Filed Sept. 30, 1922. Serial No. 591,628. 2 Claims. (Cl. 2—73.)



1. In combination with a strap adapted to pass around the body of the wearer and shoulder straps attached thereto, a support having slots formed in the ends thereof and provided with depending portions extending around the lower portion of the breasts, the body strap having its ends taken through the slots and fixed to said support, and breast receiving pockets including upper portions of net work.

1,472,797. HANDLE-SECURING MECHANISM. PHILIP A. GEIER, Cleveland, Ohio, assignor to The P. A. Geier Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 9, 1920. Serial No. 357,330. 7 Claims. (Cl. 306—16.)



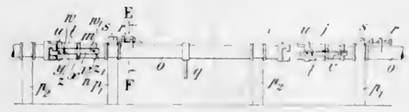
1. The combination with a handle member, of a casing, an arcuate stop device secured to said casing, pivotal means for securing said stop device, clamping means for retaining the handle member in any desired position upon said arcuate stop device, and spring means adapted to directly coact with the before mentioned clamping means whereby said handle member may be temporarily and resiliently held in a given position.

1,472,798. REAMER. TORSTEN A. GYLLSDORFF, Detroit, Mich., assignor to Standard Reamer & Tool Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 27, 1920. Serial No. 433,352. 1 Claim. (Cl. 77—72.)



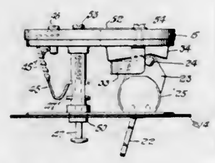
A reamer comprising a substantially cylindrical body of low-grade steel having a hub at one end and a central bore at the other, said hub having a central bore of less diameter than the bore of the body and also having longitudinal key seats, keys in said seats, a cutter end of high-grade steel mounted on said hub and having key-grooves to receive the keys, a driving shank extending into said bore in the body and having a threaded central hole, and means embodying a screw bearing against the cutter end and extending through the bore of the hub into the hole in the shank to hold the cutter end in position, said cutter end and body having registering longitudinal teeth.

1,472,799. IRRIGATION SYSTEM. WALTER KRAUSE, Friesack, Germany. Filed May 20, 1920. Serial No. 383,021. 2 Claims. (Cl. 299—58.)



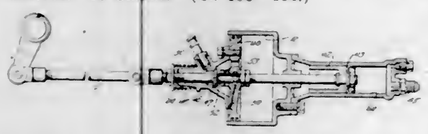
1. In irrigation systems, a conduit composed of sections, supports in which said sections are mounted rotatably, means for coupling or releasing adjacent sections by a rotary movement about the longitudinal axis of said sections, and bolts mounted to slide lengthwise of said axis for locking the sections in coupled position and respectively engageable with said supports.

1,472,800. ELECTRIC SWITCH. STANLEY D. LIVINGSTON, Meriden, Conn., assignor to The Connecticut Telephone & Electric Company Inc., Meriden, Conn., a Corporation of Connecticut. Filed Mar. 12, 1920. Serial No. 365,153. 7 Claims. (Cl. 200—5.)



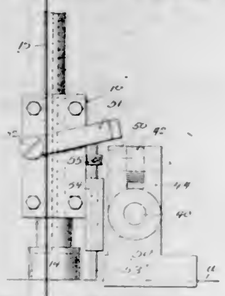
5. In a switch, a front plate, an insulating back plate, a spacing shell, two oppositely-disposed switch contacts carried by the back plate and projecting toward the front plate, a spring between said contacts, and a switch lever pivotally carried by said front plate and having a contact member adapted to be swung between said contacts and having the rear end engaging said spring.

1,472,801. PNEUMATICALLY-ASSISTED PRESSURE-PRODUCING MECHANISM. MALCOLM LOUGHEAD, Detroit, Mich., assignor, by mesne assignments, to Hydraulic Brake Company, Los Angeles, Calif., a Corporation of California. Filed Jan. 23, 1922. Serial No. 531,144. 16 Claims. (Cl. 188—154.)



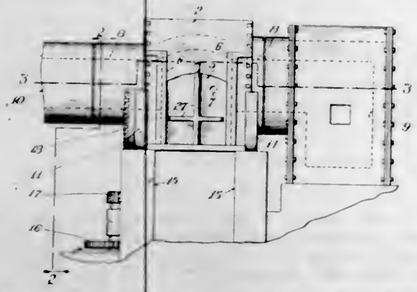
1. In a device for placing fluid under pressure for the operation of brakes, means for manually operating said device to create pressure, and power means rendered operative responsive to the movement of the manually operated means for creating additional pressure.

1,472,802. AUTOMATIC STOP DEVICE FOR STRIP-INSERTING MECHANISM OF POWER PRESSES. CHARLES D. MCDONALD, Chicago, Ill. Filed Jan. 20, 1923. Serial No. 613,808. 10 Claims. (Cl. 192—125.)



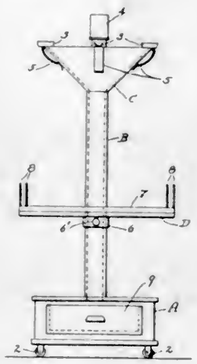
1. In a power press, the combination of strip lifters, strip inserting mechanism operating to insert a lifted strip into a feed slot of the press, and control means for said strip inserting mechanism, having a stop member normally located in the path of a moving element of said strip inserting mechanism, and strip actuated elements associated with the strip lifters and arranged to move the stop member out of the path of movement of said moving element of the strip inserting mechanism, whenever actuated by a lifted strip.

1,472,803. BUSHELING FURNACE. JOHN MCGAFF, Chicago, Ill., assignor of one-half to Interstate Iron and Steel Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 31, 1921. Serial No. 457,259. 5 Claims. (Cl. 263—33.)



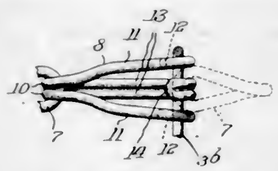
1. A busheling furnace comprising an oblong trough-shaped chamber having a flat bottom extending in the direction of its major axis and consisting of an imperforate plate having cross-pockets, the sides having opposite openings communicating respectively with a source of heat and a flue, and means to oscillate the chamber to alternately raise and lower its ends.

1,472,804. COMBINATION NONSMUDGING CIGAR AND CIGARETTE ASH RECEIVER AND TABLE. WILLIAM H. MACK, Johnson City, N. Y. Filed Oct. 10, 1921. Serial No. 506,654. 2 Claims. (Cl. 131—51.)



2. In a combination portable non-smudging ash receiver and table top, a portable base, a removable drawer therein adapted to contain a receptacle for liquid or other substance to receive ashes, a vertical tubular standard mounted on the base and having at its upper end, an enlarged funnel shaped mouth, means for holding cigars on the mouth surface, resilient clips on the standard for holding papers in suspension, a table top slidably and adjustably mounted on the standard, said table top being provided with a raised rim and supporting clips mounted on the table adjacent the rim.

1,472,805. CONNECTER LINK FOR ANTISKID CHAINS. JOHN P. MENTZER, Chicago, Ill. Filed Dec. 27, 1920. Serial No. 433,152. 1 Claim. (Cl. 24—237.)

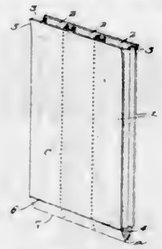


A connecter for tire chains comprising a single piece of material bent to form a loop member at one end, and three transversely contacting hook members at the other end, the two outside hook members facing in one direction and the intermediate hook member facing in another direction, and serving as a tongue over which the link of the cross chain may pass.

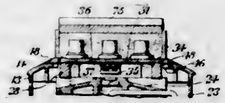
1,478,806. CIGAR CASE. DAVID M. NEWBOLD, Jr., Philadelphia, Pa. Filed July 11, 1922. Serial No. 574,272. 2 Claims. (Cl. 229—69.)

2. A cigar container of a suitable size to receive a cigar and consisting of a strip of material doubled upon itself and provided at its doubled portion with a flexible crease bend, said strip being further provided with a pair of flexible crease bends evenly spaced from the

first mentioned bend, the portion of the strip between the pair of bends forming a flexible bottom, expansible walls secured to the inner faces of the sides and terminating at their lower ends at the pair of crease bends whereby, upon insertion of a cigar, the side pieces will move apart and the bottom rise to form a squared seat.

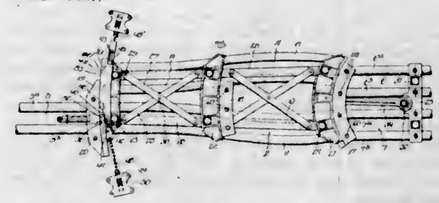


1,472,807. MOLDING MACHINE. WILLIAM H. NICHOLLS, Brooklyn, N. Y. Filed Jan. 22, 1921. Serial No. 439,169. 26 Claims. (Cl. 22—26.)



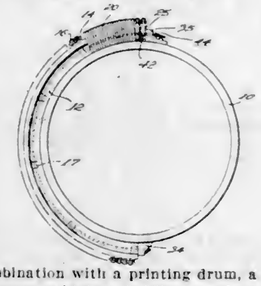
1. In a molding machine, the combination of a support, a large squeeze-piston mounted in said support, a smaller jolt-piston mounted centrally in the squeeze-piston, a valve for controlling a supply of fluid under pressure to said pistons, a head carried by the upper end of the jolt-piston and adapted to bear on the upper end of the squeeze-piston, a pattern plate holding frame secured to said head, laterally extending diagonal arms carried by said head, each of said arms being formed with a depending socket at its outer end, an open substantially rectangular flask supporting frame surrounding the pattern plate holding means and adapted to rest on the said diagonal arms, depending guide pins carried by said frame and fitting in the said sockets, depending plunger rods carried by the end bars of the said supporting frame and adapted to reciprocate in vertical sockets formed in the support at opposite sides of the pistons, means for locking the flask supporting frame in its upper position after the squeezing operation, and a presser head above the flask supporting frame.

1,472,808. ROUND-TRACK TONGUE SWITCH. ROY BURTON OLDER, Danville, Ill., assignor to Allith-Prouty Company, Danville, Ill., a Corporation of Illinois. Filed July 25, 1921. Serial No. 487,353. 6 Claims. (Cl. 104—103.)



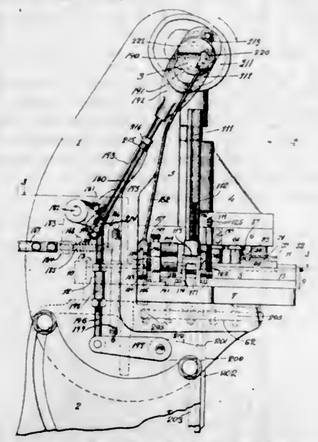
2. In an overhead carrier system, in combination, a pair of ways, a single way spaced therefrom, a switch cooperating with said ways for directing a carrier from one way to another, said switch comprising a pair of tracks arranged with one end in association with said pair of ways, and the other end movable to bring either of said pair of ways into association with said single way; said parts being arranged in such manner that when said switch is in position to connect selected ways the inoperative track serves as a stop to prevent derailment of a carrier on another way.

1,472,809. MECHANISM FOR HOLDING TYPE LINES. HENRY C. OSBORN, Cleveland, Ohio, assignor, to The American Multigraph Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 14, 1922. Serial No. 552,484. 17 Claims. (Cl. 101—375.)



1. In combination with a printing drum, a type holding member thereon, said type holding member comprising a sheet metal strip bent to form a base portion and two side portions arranged substantially U-shaped, the sides of the U being disposed in radial planes passing through the center of the drum.

1,472,810. PRESS. HERMAN OSSWALD, Richmond Hill, N. Y. Filed May 22, 1920. Serial No. 383,355. 19 Claims. (Cl. 113—80.)

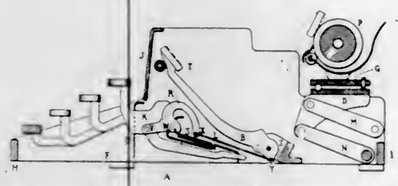


1. In an apparatus for making sheet metal articles of the character set forth, the combination of a plurality of dies, reciprocating means for transferring the said articles from one die to another die, means for supporting said transferring means above all of the said dies, a plurality of punches adapted to enter said dies to shape the articles therein, means for moving the articles from the said dies to the said reciprocating transferring means and means for operating the latter.

1,472,811. PORTABLE TYPEWRITING MACHINE. WALTER A. PAPWORTH, Grand Rapids, Mich. Filed May 27, 1921. Serial No. 472,967. 16 Claims. (Cl. 197—28.)

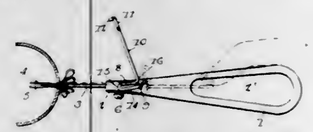
16. In a typewriter, a substantially horizontally positioned rock lever, a support on which the rock lever is pivotally mounted between its front and rear ends, a key

lever, a pivotal connection between the front end of the rock lever and the key lever at a point between the ends of the said key lever, said key lever being mounted for substantially vertical up and down movements of its front end, a type bar pivotally mounted back of the rock lever



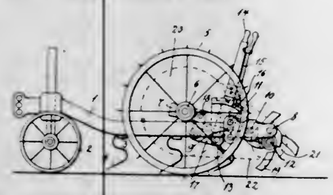
and at a point below the pivot of the rock lever, said type bar extending normally upward and toward the front at an angle to the horizontal and vertical, and a link connecting the rear end of the rock lever with the type bar below the pivot of the type bar, substantially as described.

1,472,812. DEVICE FOR REPAIRING PNEUMATIC TIRES. EWALD F. PAWSAT, Sheboygan, Wis. Filed July 9, 1920. Serial No. 394,912. 3 Claims. (Cl. 152—27.)



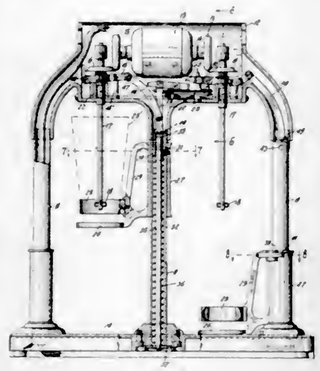
1. A repair tool for pneumatic tires comprising the combination with a forked needle for insertion in a tire puncture, of an apertured handle, a lever pivoted to the handle and provided with an anchoring projection adapted to freely engage in said aperture, and an arm upon the lever projecting laterally at one side of said handle, whereby strands of a rubber band may be held under tension by looping them thru the fork of said needle and about said laterally projecting arm, and whereby all of the strands of said band may be simultaneously released by a withdrawal of the anchor from engagement with the handle.

1,472,813. CULTIVATOR. DINES CHRISTIAN PEDERSEN, Holbak, Denmark. Filed Nov. 25, 1921. Serial No. 517,478. 1 Claim. (Cl. 97—40.)



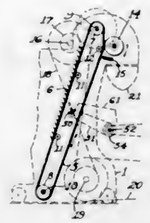
Earth tilling implement comprising a cultivator with teeth disposed in several rows on a frame, means for raising and lowering and for fixing the said frame in raised position, a disintegrating device consisting of a number of blades placed alongside of one another on a shaft, the said shaft being journalled in a frame which is hinged to extensions of the frame of the cultivator, the said extensions being adjustable up or down relatively to the cultivator frame, the frame of the disintegrating device being furthermore connected to the axle for the rear supporting wheels of the cultivator, means for rotation of the blade shaft by transmission from the said supporting-wheel axle, means for rotation of the said shaft and blades, means for raising and lowering as well as for fixing the disintegrating device in raised position.

1,472,814. DRINK MIXER. ELMER SAS, New York, N. Y. Filed July 8, 1922. Serial No. 573,566. 9 Claims. (Cl. 259—131.)



1. A drink-mixer, comprising a frame, an electric motor thereon, a plurality of agitating elements, means associated with each agitating element capable of independently gearing the same to said motor, a receptacle carrying platform associated with each agitating element, said platforms being slidably mounted on said frame, a switch in the circuit of said motor, and means for closing said switch, said switch closing means being adapted to be actuated by each platform when the latter is shifted on said frame into operative relation to its agitating element.

1,472,815. FEEDING AND WEIGHING DEVICE FOR CARDING MACHINES. JOSEPH F. SCHIMEK, Holden, Mass., assignor to Cashiko Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed June 22, 1921. Serial No. 479,583. 8 Claims. (Cl. 19—68.)

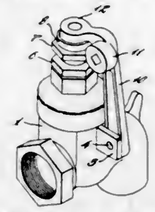


1. In a machine of the class described, the combination with a receptacle, a weighing hopper, a movable apron for conveying material from said receptacle to said hopper, a rotating actuating element for driving said apron, and means for removing the material passing through said hopper, following the opening thereof, of means dependent upon the operation of said hopper for disconnecting said apron from said actuating element, means for opening said hopper, and further means dependent upon the operation of said material removing means for closing said hopper, and reconnecting said apron to said actuating element.

1,472,816. FAUCET. WILLIAM H. SMITH, East Cleveland, Ohio. Filed Dec. 15, 1919. Serial No. 344,901. 6 Claims. (Cl. 251—100.)

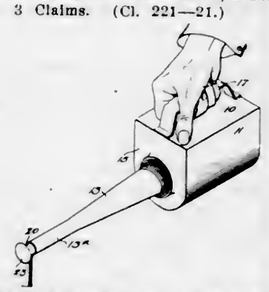
1. A faucet comprising a casing having a lug thereon, a valve in said casing having a stem projecting therethrough, a detachable wrench having a handle and a pair

of socket members thereon, one of said members being engageable with said stem to position said handle in an operative position, and the other of said members being



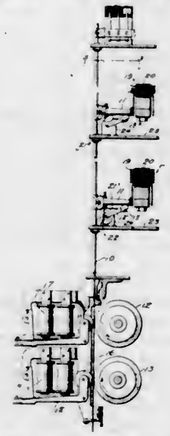
engageable with said stem to position said handle adjacent said lug whereby said parts may be locked to render said valve inoperative.

1,472,817. LIQUID-APPLYING CAN. WILLIAM J. STANSBURY, Philadelphia, Pa. Filed Jan. 6, 1921. Serial No. 435,301. 3 Claims. (Cl. 221—21.)



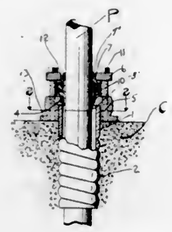
1. A receptacle for applying liquid to a travelling object, such as a belt, including a receptacle having its bottom curved in cross section; a rectilinear tubular spout for said receptacle mounted approximately concentrically with the axis of said bottom; and a tubular member near the end of said spout providing an axially adjustable pouring aperture.

1,472,818. BRUSH-TRIPPING DEVICE. LEE R. WALLER, Westmount, Quebec, Canada, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 2, 1920. Serial No. 427,850. 7 Claims. (Cl. 179—27.5.)



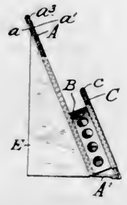
7. In a switch, fixed contact terminals, a brush set arranged to move over said terminals, means for moving said brush set, a tripping device movable with said brush set for controlling engagement of the brushes with said terminals, a trigger adapted to be moved out of tripping position by said brush set, and means independent of said brush set for restoring said trigger.

1,472,819. PIPE THIMBLE. ROBERT L. WELLS, Chicago, Ill. Filed June 16, 1921. Serial No. 477,948. 2 Claims. (Cl. 126—317.)



1. The combination with a floor, of a pipe freely extending through said floor, to permit expansion and contraction thereof; a sleeve imbedded in said floor, so as to surround said pipe, and being spaced therefrom, said sleeve extending to a point above said floor; a member mounted on the outer end of said sleeve, and spaced from said pipe; a second member disposed about said pipe and spaced therefrom; yieldable packing material disposed between said members; and means for drawing said second member toward said first member to press the packing into yieldable engagement about said pipe, substantially as described.

1,472,820. DISPLAY DEVICE. PERCY H. WHITE, Brooklyn, N. Y., assignor to R. Tyson White's Sons, Brooklyn, N. Y., a Partnership. Filed Dec. 14, 1921. Serial No. 522,354. 4 Claims. (Cl. 211—14.)

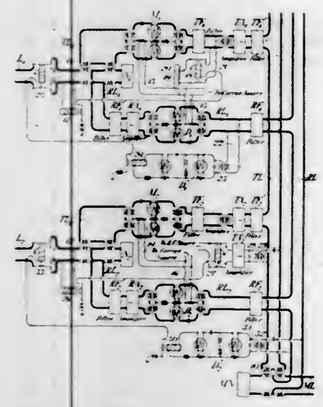


1. A display-device formed with an inclined back sheet having a flange at its lower edge, a recessed block secured to the front face of said back sheet, and a front sheet secured to said block with its lower edge secured to the front edge of the said flange.

1,472,821. RINGING CHANNEL FOR MULTIPLEX TELEPHONE SYSTEMS. HERMAN A. AFFEL, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 29, 1919. Serial No. 314,072. 12 Claims. (Cl. 179—4.)

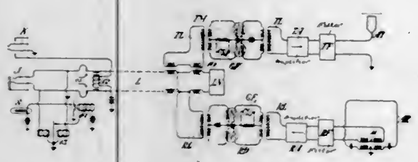
1. In a signaling system, a transmission line, means to transmit over said line modulated high frequency currents corresponding to speech signals, means responsive to ringing signals to transmit over said line high frequency currents corresponding to said ringing signals, means to

separate high frequency currents of the latter character from currents of the former character, separate means to



detect from the two sets of currents speech and ringing signals and means for impressing said speech and ringing signals upon a common circuit.

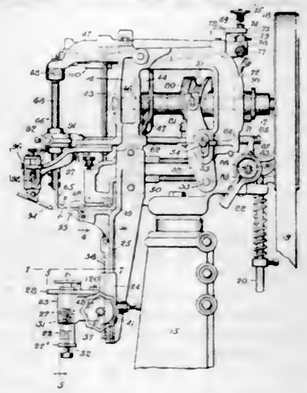
1,472,822. CALLING ARRANGEMENT FOR RADIO SYSTEMS. HERMAN A. AFFEL, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 24, 1919, Serial No. 325,840. Renewed Mar. 23, 1923. 5 Claims. (Cl. 250—6.)



2. In a wireless signaling system, a radiating antenna, means to impress high frequency oscillations modulated in accordance with voice signals upon said antenna, means to generate alternating ringing current, and vacuum tube means to translate said ringing current into high frequency oscillations, said high frequency oscillations being radiated by said antenna.

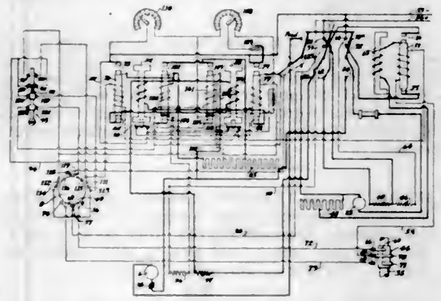
1,472,823. LASTING MACHINE. ORRELL ASHTON, deceased, late of Swampscott, Mass., by Hannah Ashton, executrix, Wollaston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 23, 1918. Serial No. 267,973. 45 Claims. (Cl. 12—2.)

1. A machine of the character described comprising means to determine the working position of an unlasted shoe, gripping means arranged to grip the margin of the shoe upper, means arranged to operate said gripping means to pull the margin over the edge of the sole without touching the margin to the sole, and means arranged to cause



relative movement of the shoe and an element of said gripping means after release of the grippers to press the pulled-over margin against the face of the sole.

1,472,824. PLANER AND SYSTEM OF MOTOR CONTROL THEREFOR. HAROLD L. BLOOD, Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed June 10, 1920. Serial No. 388,058. 16 Claims. (Cl. 172—240.)

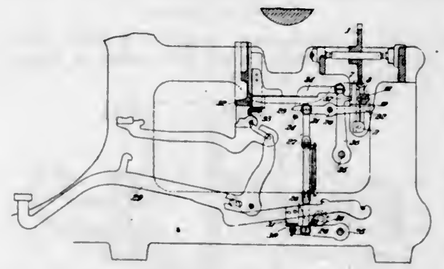


1. In a planer or other machine having a reciprocating table and an adjustable tool, the combination with the table and the tool, of a main motor for reciprocating the table, a compound electric motor for feeding the tool, means for automatically operating the compound motor intermittently as the table reciprocates to effect feeding, means for operating the compound motor continuously in either direction to effect traversing and connections for maintaining the direction of current flow through the series field of the compound motor unchanged both when the motor is operated intermittently and when it is operated continuously in either direction.

1,472,825. LETTER-WIDTH-SPACING MECHANISM IN TYPEWRITERS. THEODOR EUGEN BUSCHMANN, Chemnitz-Kappel, Germany, assignor to Wanderer-Werke vorm. Winklhofer & Jaenicke Aktiengesellschaft, Schonau, near Chemnitz, Germany. Filed Mar. 23, 1921. Serial No. 454,945. 1 Claim. (Cl. 197—84.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

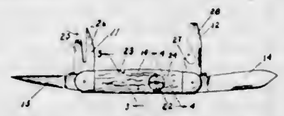
In a typewriting machine the combination of a carriage, type bars, key levers, variable feed carriage, escapement mechanism including a movable pawl which is capable of

rocking through an angle of two different amounts for single and double letter width spacing respectively, a universal bar to be operated by the type bars for actuating the said mechanism and a universal bar to be op-



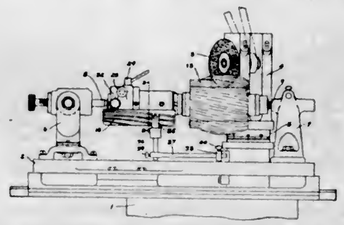
erated by the key levers of the double width letters and means interposed between the latter universal bar and the said movable pawl for allowing the rocking angle of the latter to be varied to the amount required for double letter spacing, as set forth.

1,472,826. KNIFE. TINT CHAMPLIN, Little Valley, N. Y. Filed June 17, 1922. Serial No. 569,159. 4 Claims. (Cl. 7—11.)



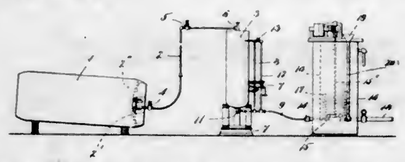
1. In a knife having a handle, a compass imbedded in said handle, and magnetized blades pivoted at each end of said handle, each blade having two legs, and keepers carried by said handle to extend across the legs of each blade when the blades are closed down into the handle of said knife.

1,472,827. CUTTER-GRINDING ATTACHMENT. ALBERT W. ERDMAN, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 1, 1921. Serial No. 448,759. 3 Claims. (Cl. 51—225.)



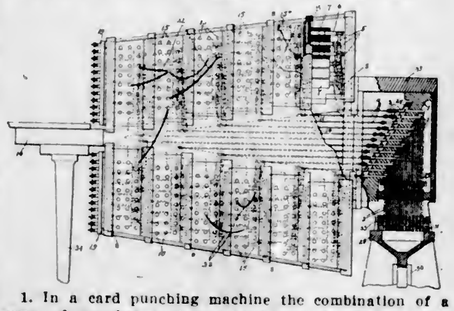
1. An attachment for grinding milling cutters comprising in combination, an arbor adapted to be mounted on a pair of centers, one portion of the arbor being adapted to support a milling cutter thereon, a cam member on another portion of the arbor provided with a plurality of longitudinally extending cam shoulders thereon, the said shoulders being relatively angular and being adapted to optionally cooperate with a stop element to accurately position the cutter during the grinding operation, mechanism for rotatably indexing the member through a definite angle on the arbor, other mechanism for finely rotatably adjusting the member on the arbor, and clamping means for securing the member to the arbor.

1,472,828. APPARATUS FOR MAKING HYDROSULPHITES. FREDERIC AUGUSTUS EUSTIS, Milton, Mass. Filed May 7, 1921. Serial No. 467,691. 11 Claims. (Cl. 23—13.)



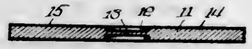
4. Apparatus for making hydrosulphites comprising a supply tank for holding a measured quantity of liquid sulphur dioxide, a mixing tank, and a valve controlled connection between the supply tank and the mixing tank adapted to control the rate of flow therethrough without permitting the sudden expansion of the sulphur dioxide in said connection.

1,472,829. CARD-PERFORATING MACHINE. JAMES H. GAULT, Philadelphia, Pa. Filed Apr. 17, 1922. Serial No. 553,356. 5 Claims. (Cl. 164—113.)



1. In a card punching machine the combination of a gang of punches and cooperating perforating mechanism, keys for locking the punches, a plurality of groups of electro-magnets, each group being specially mounted in a removable drawer, a plurality of similar groups of levers, means for mounting and pivoting said levers, a plurality of sets of connecting rods, each set corresponding to a group of levers and keys, means for easily connecting said levers to armatures of said magnets, electric wiring means specially adapted for easy removal of magnets, all substantially as specified.

1,472,830. DIAPHRAGM FOR SOUND-CONVEYING INSTRUMENTS. JOSEPHUS A. HACKER, Chicago, Ill. Filed Jan. 3, 1921. Serial No. 434,428. 3 Claims. (Cl. 181—32.)

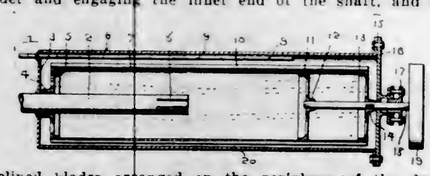


1. As a new article of manufacture, an acoustic diaphragm consisting of a cellular material impregnated in a solution of cellulose, said diaphragm having a small portion of greater density than the remainder of the diaphragm.

1,472,831. APPARATUS FOR COOLING PURPOSES. WALTER HAMER, Devonport, Auckland, New Zealand. Filed June 7, 1922. Serial No. 566,666. 3 Claims. (Cl. 62—95.)

3. A cooling apparatus including a hollow cylinder having closed ends, a pipe extending into said cylinder, extending along subatantially the entire length of the interior of the cylinder and provided with perforations adapted to discharge a cooling medium into the cylinder, a suction pipe arranged eccentrically within the cylinder and adapted to permit withdrawal of the cooling medium from the cylinder, a shaft rotatably mounted

in one end of the cylinder, a drum mounted on said shaft and on said suction pipe and arranged eccentrically within the cylinder, a head arranged within the cylinder and engaging the inner end of the shaft, and inclined blades arranged on the periphery of the drum and extending lengthwise of the latter for elevating any liquefied cooling medium which may be deposited in the lower portion of said cylinder.

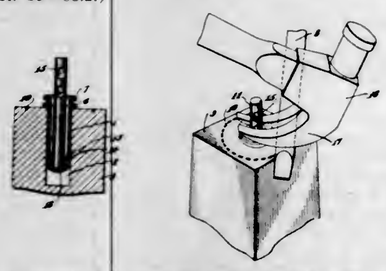


1,472,832. WEEDING AND TRANSPLANTING DEVICE. WILLIAM H. HENNINGS, Chicago, Ill. Filed June 10, 1921, Serial No. 476,408. Renewed May 4, 1923. 7 Claims. (Cl. 55—68.)



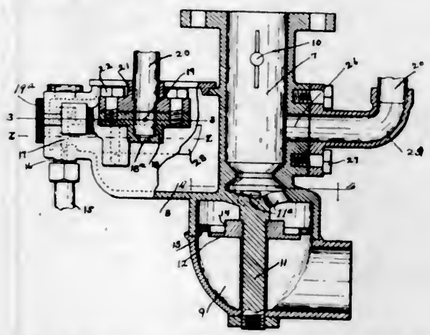
1. A tool of the character described comprising a stem terminating in a blade at its lower end, a foot rest at the upper end of said blade, a transverse rocking bar pivotally supported between its ends by said foot rest, a blade extending downwardly from one end of said bar in front of the other blade, a handle on the upper end of said stem, a second handle arranged in the vicinity of the aforesaid handle and movable from and toward the same, and a connecting rod arranged between said second handle and the rear end of said rocking bar.

1,472,833. PROCESS OF REMOVING CASTER SOCKETS FROM FURNITURE. WALTER F. HEROLD, Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 5, 1921. Serial No. 520,200. 2 Claims. (Cl. 29—88.2.)



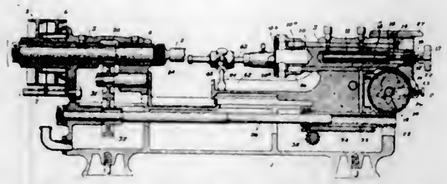
1. A process for removing caster sockets from furniture, comprising prying off the track plate of the socket, driving into the socket a headed shaft, head first, until the head engages beneath the inner end of the socket, said shaft having a shoulder adjacent its other end, and then applying the claw of a claw-hammer or the like to said shoulder and exerting leverage to pull out the said shaft and the socket therewith.

1,472,834. CARBURETOR. RAYMOND S. HILL, Minneapolis, Minn. Filed Jan. 23, 1919. Serial No. 272,639. 3 Claims. (Cl. 261—13.)



1. A carburetor for internal combustion engines provided with a mixing chamber, a valve-controlled air inlet at the bottom thereof, an air inlet conduit communicating with said chamber at an intermediate portion thereof, said conduit communicating with an air intake spaced from said mixing chamber and comprising a vertical cylindrical passage having a contracted lower end through which air enters, a liquid fuel supply chamber having a delivery conduit opening into said cylindrical passage through the vertical wall thereof and terminating flush with said wall at a point above the contracted lower end of said passage, and a throttle valve located adjacent the discharge end of said mixing chamber and serving to simultaneously control the suction through said valve controlled air inlet and through said second mentioned air inlet.

1,472,835. LAPPING MACHINE. FRANK O. HOAGLAND, Bridgeport, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 15, 1919. Serial No. 323,736. 24 Claims. (Cl. 51—95.)

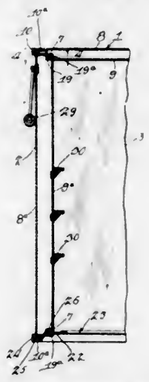


1. In a lapping machine, the combination of a work spindle, a cooperating tool spindle adapted to support a lapping tool thereon, means for rotating one of the spindles, and means for automatically reciprocating one of the spindles axially toward and from the other spindle once or a plurality of times during a predetermined rotation of the rotating spindle.

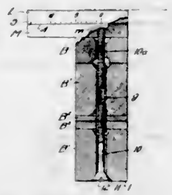
1,472,836. PORTABLE OVEN. RUDOLPH HOFFMAN, Kankakee, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a Corporation of New York. Filed Mar. 26, 1920. Serial No. 368,883. 15 Claims. (Cl. 126—275.)

15. In a device of the class described, the combination of two walls and securing means for the walls

comprising loops on the inner sides of the walls arranged to register in assembling the walls, together with means adapted for insertion into the registering loops to hold the walls together.



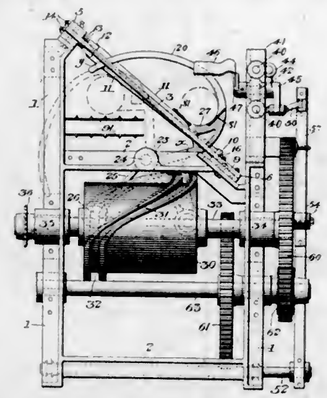
1,472,837. PRECISION GAUGE. WILLIAM E. HOKÉ, St. Louis, Mo., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 9, 1919. Serial No. 288,791. 8 Claims. (Cl. 33—162.)



1. A gauge comprising in combination one or more gauge blocks each provided with opposite parallel flat gaging faces at a predetermined precise distance apart and each provided with a through hole extending from one face to the other and countersunk to provide an abutment located between the opposite gaging faces thereof, a supplemental gauge element different from the blocks but also having opposite gaging faces in predetermined precise relationship, the supplemental gauge element having at least one flat face and the supplemental element and the several blocks respectively having face to face wringing or surface engagement with each other, the said supplemental gauge element being provided with a threaded hole perpendicular to the said flat face thereof, and a tie rod extending respectively into and through the holes in the supplemental element and in the blocks and serving to connect them together with their respectively adjacent flat faces in contact as aforesaid, the tie rod being threaded at one end to enter the threaded hole in the supplemental element and having a head at the other end engaging the countersunk abutment of the block at the opposite end of the gauge from the supplemental element and positioned to leave unobstructed the outer gaging face thereof.

1,472,838. SLICING MACHINE. SIMES T. HOYT, Honolulu, Territory of Hawaii, assignor to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii, a Corporation of Hawaii. Filed Feb. 3, 1923. Serial No. 616,787. 15 Claims. (Cl. 146—6.)

13. A slicing machine comprising a series of parallel spaced knives, an arc shaped head pivoted below the knives and having slots continuously engaged by the knives, means for feeding articles to be sliced between the inner face of the head and the knives, and means for oscillating the head transversely of the plane of the knives.



1,472,839. COMPRESSED-AIR WATER PUMP. WALTER S. HULSE, Pine Grove, Pa. Filed Dec. 11, 1922. Serial No. 606,163. 5 Claims. (Cl. 103—240.)

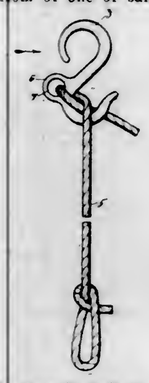


1. In a pump of the type described, a cylinder having an inwardly opening check valve, intake and exhaust ports, said cylinder being adapted to be submerged, a discharge for said cylinder having an outwardly opening check valve, a valve shiftable upon unbalancing of the pressure at opposite ends thereof for controlling the intake and exhaust ports, a source of fluid pressure supply in communication through said valve with the intake port, and means whereby ingress of the water to said cylinder unbalances pressure at opposite ends of the valve thereby shifting the valve to a position permitting the entrance of fluid pressure to the cylinder.

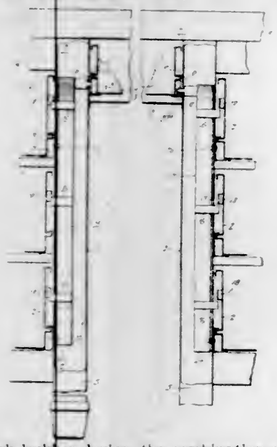
1,472,840. LINE HOOK. ALBERT H. HUMPHREYS, Woolwich, Me., assignor of one-half to John C. De Wolf, Middletown, Conn. Filed Aug. 21, 1919. Serial No. 318,957. 1 Claim. (Cl. 24—129.)

A line hook comprising an S shaped structure formed by and having two hooks, an extension on one side of

the said structure and opposite the open end and on a line above the bottom of one of said hooks, said extension having a hole therethrough to receive the end of a line, all parts of the said structure being evenly disposed on a line passing through the edgewise center.



1,472,841. DESK-LOCKING MECHANISM. GEORGE W. HUNT, Chicago, Ill., assignor to Emily Parsons Hunt, Evanston, Ill. Filed June 25, 1920. Serial No. 391,567. 4 Claims. (Cl. 45—94.)



1. In a desk locking device, the combination of a vertical pedestal, drawers mounted in said pedestal, an endwise shiftable locking bar mounted at the front of said pedestal and extending vertically along the sides of said drawers, locking members carried by said drawers and said bar and adapted for locking engagement when said bar is lifted into locking position, and an inclined channel member mounted on the side of one of said drawers adapted to engage a coacting lug on said bar to lift the same into drawer locking position.

1,472,842. TOY. ELIZABETH A. HYMAN, Penacook, N. H. Filed Nov. 21, 1921. Serial No. 516,628. 1 Claim. (Cl. 46—40.)

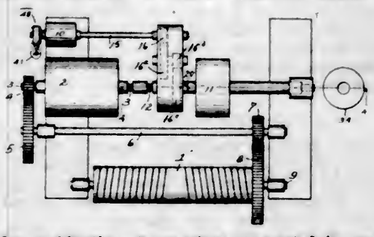
A toy comprising a figure having a body and two limbs rigid with the body and extending laterally therefrom, said limbs being separated in the direction of the length of the figure and each limb having an aperture in its end, a supporting ring, and a cord secured at one end to said figure and passing through the supporting ring and thence through the apertures in the limbs successively, whereby when the supporting ring is grasped in one hand and the end of the cord is pulled downwardly the toy will be caused to ascend the string, while when the pull on the cord is released the toy will descend the string by gravity, the front limbs of the toy having an angular shape.



1,472,843. DEVICE TO PREVENT STEALING OF AUTOMOBILES. CHARLES JACKSON and WALKER L. HUNTER, Baltimore, Md., assignors, by mesne assignments, to The National Auto Lock Company, Baltimore, Md., a Body Corporate of Maryland. Filed Dec. 11, 1919. Serial No. 344,200. 1 Claim. (Cl. 200—42.)

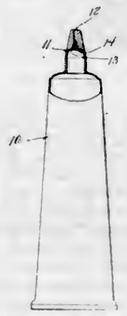
In an ignition system cut-out, a casing, a non-conducting base therein, a plurality of circuits each having an intermediate portion engaging said base, a fastening member of conducting material in contact with each of said circuits at an intermediate portion thereof, said members being located in spaced parallel rows defining a plane and a conducting plate parallel to said base and movable within said casing adapted to engage all of said fastening members simultaneously whereby said circuits are electrically interconnected.

1,472,844. POWER-TRANSMITTING MECHANISM. ARTHUR C. KELLER, Milwaukee, Wis., assignor to Pawling & Harnischfeger Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 20, 1919. Serial No. 331,762. 3 Claims. (Cl. 172—152.)



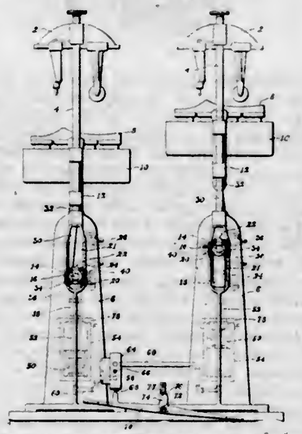
1. In combination, two motors, connected in common to a driven member and each provided with a controller, additional contacts in each controller and cross connections between the supply lines and each controller thru the additional contacts of the other controller, whereby the current for either motor passes thru both controllers to make the operation of either motor dependent upon the controller of the other being in neutral position.

1,472,845. SELF-CLOSING TUBE. CHARLES N. KELLEY, Madison, Wis. Filed Dec. 27, 1921. Serial No. 524,964. 1 Claim. (Cl. 221—60.)



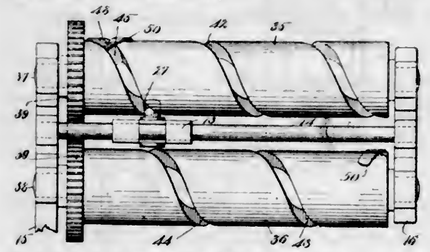
The combination of a nozzle having an enlarged chamber therein, a spring having a major portion and a minor portion, said minor portion being secured to said nozzle in said chamber, said nozzle having an elongated channel from said chamber to the exterior of said nozzle, said channel being of uniform cross section throughout its length and having two narrow walls and two wide walls, the major portion of said spring extending throughout the length of said channel, from one of said wide walls to the other of said wide walls, and from one of said narrow walls to the other of said narrow walls, said major portion being at an acute angle with respect to each of said wide walls.

1,472,846. SOLE-PRESSING MACHINE. CUTLER D. KNOWLTON, Rockport, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 26, 1919. Serial No. 306,991. 11 Claims. (Cl. 12—33.)



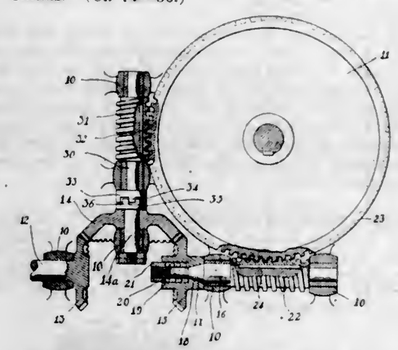
1. A sole pressing machine having, in combination, a shoe supporting jack, a sole pressing pad, mechanism acting with increasing leverage to move the jack and pad relatively to apply pressure to the sole of a shoe placed on the jack, and fluid operable means for actuating said mechanism.

1,472,847. HIGH-SPEED TRAVERSE MECHANISM FOR WINDING MACHINES. GEORGE J. MCGANN, Providence, R. I. Filed Jan. 12, 1920, Serial No. 350,895. Renewed June 10, 1921. Serial No. 476,606. 15 Claims. (Cl. 242—43.)



6. A traverse mechanism having a traverse guide and a reciprocating carriage therefor in combination with screws mounted for rotation on axes parallel with the path of said carriage, a driving stud mounted on the carriage for motion into engagement with the thread of one or another of said screws, said stud being in engagement with one of said screws during the traverse of the carriage in one direction, means for shifting said stud into engagement with the other of said screws for traversing the carriage in the opposite direction and means to initiate reverse movement of said carriage prior to the operative engagement of said stud with said other screw.

1,472,848. DRAG-SPINDLE MECHANISM. MAX MAAG, Zurich, Switzerland. Original application filed Dec. 31, 1918, Serial No. 269,081. Divided and this application filed Oct. 27, 1920. Serial No. 419,999. 9 Claims. (Cl. 74—36.)

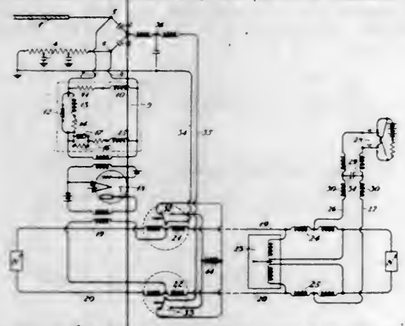


1. Means for rotating an element comprising in combination, a positively driven worm, a worm wheel in mesh therewith and rotatable with said rotatable element, a frictionally driven worm meshing with said worm wheel, a clutch between the positively driven worm and its driving means permitting a limited idle movement of said positive driving means relative to its worm, and common driving means for said worms.

1,472,849. FORWARDING SYSTEM FOR OCEAN CABLES AND THE LIKE. WILLIAM H. MARTIN, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 18, 1918. Serial No. 240,623. 6 Claims. (Cl. 178—71.)

3. In a system for transmitting signals, the combination with a plurality of transmission lines one of which is characterized by attenuation and distortion, of a connecting circuit comprising means for reforming signaling impulses received over the transmission line character-

lized by attenuation and distortion and a thermionic vacuum tube for amplifying the reformed impulses and



for impressing the said impulses upon another of the said transmission lines.

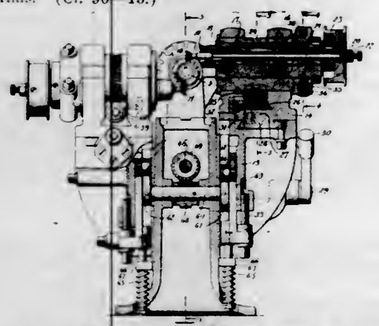
1,472,850. METHOD OF CEMENTATION OF BORON INTO THE SURFACE OF IRON OR STEEL. TAKEO MIYAGUCHI, Sendagayamachi, Toyotamagori, Tokyofu, Japan. Filed Oct. 19, 1921. Serial No. 508,817. 4 Claims. (Cl. 148—7.)

1. A method of cementation of boron into the surface of iron or steel comprising covering the desired surface of the iron or steel with a mixture of carbon powder and boron oxide or compound, and heating it at from 800° C. to 900° C. in a reducing atmosphere.

1,472,851. METHOD OF CEMENTATION OF BORON INTO THE SURFACE OF IRON OR STEEL. TAKEO MIYAGUCHI, Sendagayamachi, Toyotamagori, Tokyofu, Japan. Filed Oct. 19, 1921. Serial No. 508,819. 5 Claims. (Cl. 148—7.)

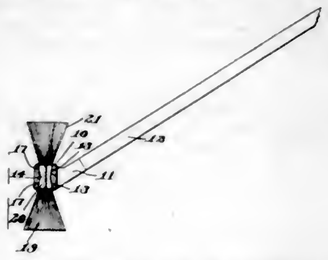
1. A method for the cementation of boron into the surface of iron or steel, comprising, placing the iron or steel within a closed furnace, covering the portion desired to be cemented with a finely powdered boron containing material, shielding the remaining portion with iron plate, iron powder, clay or the like to prevent cementation action of boron, and heating the iron or steel for a considerable period, at from 800°–900° C. in the presence of chlorine gas.

1,472,852. MACHINE FOR MILLING BLANKS. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 15, 1918, Serial No. 217,323. Renewed Jan. 27, 1922. Serial No. 532,259. 31 Claims. (Cl. 90—15.)



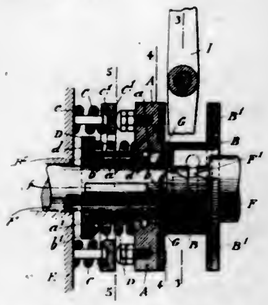
1. In a machine for milling longitudinal grooves in blanks, the combination of means for holding and indexing a blank, two rotatable milling cutters arranged to act simultaneously on the blank at opposite sides thereof, and unitary mechanism for simultaneously feeding the cutters longitudinally across the blank in opposite directions.

1,472,853. PUSH BROOM OR BRUSH. HARRY D. NEFF, Cambridge, Mass. Filed Jan. 21, 1922. Serial No. 530,771. 1 Claim. (Cl. 15—177.)



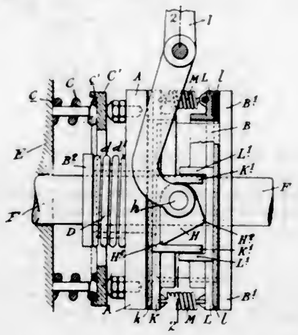
An improved push broom or brush comprising, a head provided with a plurality of depressions in one face thereof, a second head provided with a plurality of depressions in one face thereof and equal in number to the number of depressions in said first head, said depressions cooperating with each other to form a plurality of sockets, the surfaces of said depressions being bevelled and cooperating to give said sockets a double cone shape in cross section, double end broom or brush units fitting into said sockets, and means for holding the heads together.

1,472,854. CLUTCH-CLOSING MECHANISM. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Oct. 29, 1920. Serial No. 420,525. 4 Claims. (Cl. 192—89.)



1. In a device for closing the parts of a clutch, the combination with a shaft carrying the clutch part constituting an abutment thereon, of an abutment adjustable longitudinally on the shaft, and a spring interposed between said abutments and tending under compression to close said clutch parts, the adjustment of the adjustable abutment on the shaft operating to regulate the compression of said spring, said adjustable abutment comprising a sleeve flanged at one end and movable longitudinally on said shaft, jamming members such as balls interposed between the shaft and an incline of the sleeve, an annulus carrying the jamming members and longitudinally movable between said sleeve and shaft, a second spring normally tending to move the annulus to jam the jamming members between the shaft and the incline of the sleeve to hold the adjustable abutment in its adjustments, said annulus projecting at one end beyond the flanged end of the sleeve and having thereon a flange opposite to the sleeve flange, and a separator interposed between said opposite flanges of the sleeve and annulus and operative to separate the same to hold the sleeve against the action of the first-mentioned spring and to move the annulus against the action of the second spring to free the jamming members to release the adjustable abutment and said separator also operating to move the adjustable abutment as a whole on the shaft to compress the first-mentioned spring.

1,472,855. AUTOMATIC TENSIONING APPARATUS FOR CLOSING THE PARTS OF A CLUTCH. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Original application filed Oct. 29, 1920, Serial No. 420,525. Divided and this application filed Jan. 5, 1922. Serial No. 527,274. 7 Claims. (Cl. 192—89.)



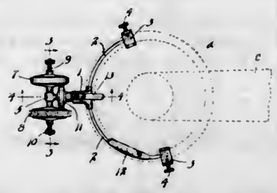
1. In an automatic tensioning apparatus for the spring closing means of a clutch, the combination with a shaft carrying the clutch part to be closed, of an abutment adjustable longitudinally of the shaft to increase or decrease the tension of said spring closing means, said abutment comprising a pair of flanged members normally having frictional engagement with said shaft, and mechanism for releasing and moving said members comprising a pair of rings encircling the same respectively, a forked lever, and spreaders carried by the ends of said lever and interposed between said rings whereby the latter are caused to engage the flanges of the abutment members respectively on movement of said lever.

1,472,856. VEHICLE WHEEL. JOHN P. SEAHOLM, Moline, Ill., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Filed Aug. 13, 1921. Serial No. 491,950. 1 Claim. (Cl. 301—43.)



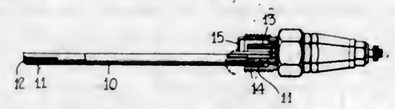
A wheel having a sheet metal rim provided with a continuous bead stamped on it to form a continuous tread to prevent bumping over hard roads, and a plurality of cross beads stamped in the rim at intervals to give a gripping action when the wheel is in soft ground.

1,472,857. RECORD-CLEANING DEVICE. ABRAHAM SWENSEN, Minneapolis, Minn.; Mary Swensen administratrix of said Abraham Swensen, deceased. Filed Apr. 12, 1922. Serial No. 551,776. 15 Claims. (Cl. 274—1.)



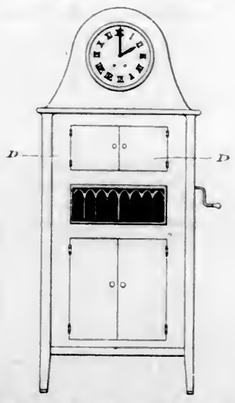
1. A record cleaning attachment for a phonograph comprising, a rotatable cleaning means attached to the sound box to move across the record therewith, and means adapted to contact with and be actuated by the record for rotating the cleaning means.

1,472,858. SPARK-PLUG CLEANER. JOHN P. TARBOX, Garden City, N. Y. Filed Mar. 12, 1921. Serial No. 451,725. 11 Claims. (Cl. 15—104.1.)



1. A spark plug cleaner comprising an elongated rectilinear channel strip of sheet metal adapted to be projected axially into a spark plug to be cleaned and having an extremity deflected laterally to a slight extent to form an arcuate scraping edge.

1,472,859. TIME-ANNOUNCING PHONOGRAPH. ANTHONY VASSELLI, Newark, N. J. Filed July 28, 1920. Serial No. 399,533. 18 Claims. (Cl. 58—14.)



1. In a time announcing phonograph, the combination of a time clock and a phonograph motor including its governor and brake shoe, means connecting said clock with said brake shoe for releasing the same to start said motor at half hourly intervals as indicated by said clock, said means including an automatic device for re-setting said governor brake shoe to stop said motor after predetermined varied lapses of time dependent upon the time required to make the respective time announcements.

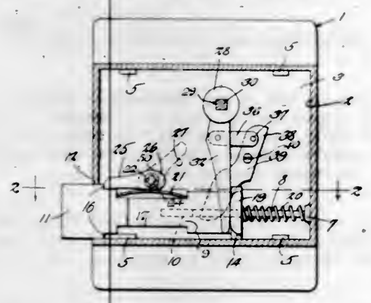
1,472,860. PROCESS FOR THE MANUFACTURE OF IRON FROM IRON ORES. STEFANUS JOHANNES VERMAES, Delft, Netherlands, assignor to Syndicaat "Electro-Staal", The Hague, Netherlands. Filed Apr. 26, 1920. Serial No. 376,758. 7 Claims. (Cl. 75—14.)

1. A process for the manufacture of iron from iron ores, comprising preheating the finely-divided iron ore to a high temperature; mixing the heated ore in a reducing furnace with finely-divided solid fuel without access of air or gases; heating said furnace externally to maintain the mixture of ore and fuel at such a temperature that a rapid reaction between the fuel and the oxygen of the ore is effected; drawing off the solid metallic iron thus formed without access of air; and then melting said metallic iron and separating it from the slag.

1,472,861. LOCK. STEPHEN J. ADKINS, Fort Worth, Tex. Filed May 31, 1922. Serial No. 564,735. 2 Claims. (Cl. 292—165.)

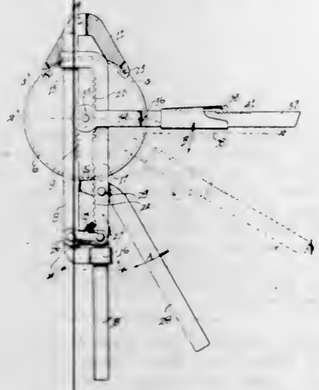
1. In a device of the class described, a casing; a bolt slidable in the casing and provided in one edge with a shoulder, there being a recess in said edge of the bolt to the rear of the shoulder; a bowed spring in the recess and engaged at its ends with the bolt at the

ends of the recess; spring means for advancing the bolt; means under the control of an operator for retracting the bolt; a shaft journaled in the casing; a latch carried by the shaft and coacting with the shoul-



der to hold the locking bolt advanced; and a cam on the shaft, the cam coacting with the spring, intermediate the ends of the spring, to hold the latch out of engagement with the shoulder.

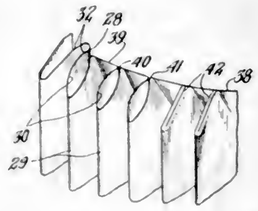
1,472,862. CAN-OPENING DEVICE. FRANK B. ANGELL, San Francisco, Calif., assignor of seven-sixteenths to Albert Koenig, San Francisco, Calif., and one-eighth to Carl F. Forester, Los Angeles, Calif. Filed June 19, 1922. Serial No. 569,416. 4 Claims. (Cl. 30—3.)



1. A device of the character described comprising spaced parallel bars, gripping means connected to said bars and adapted to engage the side wall of a can, a lever longitudinally movable between said bars, and a cutting element slidable on said lever and adapted to be rotated about the side wall of a can, substantially as and for the purpose described.

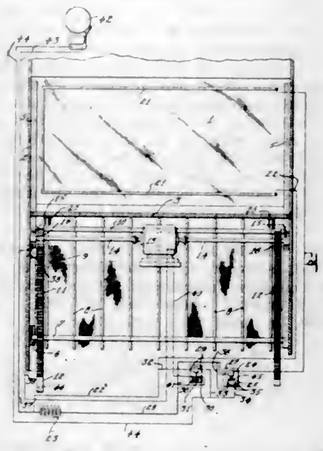
1,472,863. METHOD FOR FORMING TRANSFORMER STRUCTURES. ROBERT V. BINGAY, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company, a Corporation of Pennsylvania. Original application filed June 2, 1920, Serial No. 386,115. Divided and this application filed Mar. 11, 1922. Serial No. 543,130. 9 Claims. (Cl. 113—112.)

1. The method of forming a tank body from a plurality of sheets comprising notching said sheets, corrugating and bending said sheets into desired shape to form the tank body with inner and outer channels between the corrugations, and bending the ends of the inner channels outward and closing the ends of the outer channels by bending them over in arched form



and welding along the meeting edges, said corrugated sheets being fastened together by welding to form the tank body.

1,472,864. AUTOMATIC ELECTRIC WINDOW GUARD. WILLIAM F. BURNS, Memphis, Tenn. Filed May 24, 1922. Serial No. 563,462. 2 Claims. (Cl. 20—40.)



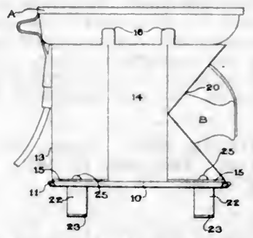
1. An automatic guard for display windows, comprising a grating movable within said window, a motor for moving said grating, a control circuit, a power circuit connected to said motor, means for setting into operation the power circuit upon breaking of the control circuit, and automatic means for breaking the power circuit.

1,472,865. PLAYING BALL, FLOAT, AND THE LIKE. MORLAND MICHOLL DESSAU, London, England. Filed Apr. 19, 1923. Serial No. 633,290. 2 Claims. (Cl. 46—4.)



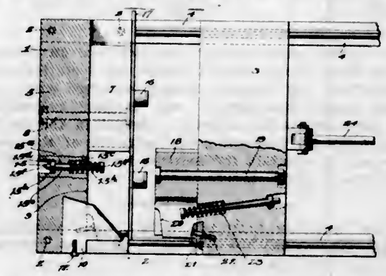
1. In a device of the class described, in combination, a nucleus, strips of crape rubber twisted separately to form cords and wound upon said nucleus to form a body having air cells which increase its buoyancy and a cover for said body.

1,472,866. SADIRON SUPPORT. FRANK DOUGHERTY, Cheyenne, Wyo. Filed July 7, 1922. Serial No. 573,294. 3 Claims. (Cl. 68—27.)



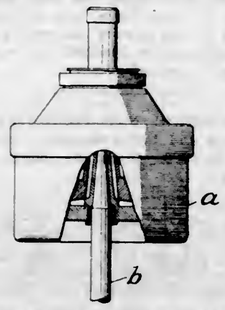
1. A device of the character described comprising a supporting base and a pair of spaced upstanding side members mounted on said base and adjustable toward and from each other, said side members being formed at their upper edges with upstanding tongues and inwardly extending flanges.

1,472,867. DIES FOR FORMING RAIL BRACES. GUY R. GAUNTT, Roanoke, Ala. Filed Aug. 23, 1922. Serial No. 583,693. 9 Claims. (Cl. 78—76.)



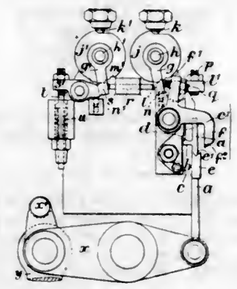
1. Dies for forming rail braces comprising a stationary die, said die having brace forming recesses therein and a brace expelling member in said recess, a moving die, an upsetting hammer, and means to bring these parts into operative relation whereby a complete brace may be formed in a single operation.

1,472,868. PROCESS OF CENTRIFUGALLY SEPARATING REFRIGERATED INGREDIENTS AND CENTRIFUGAL BOWL USED IN SUCH PROCESS. CYRUS HOWARD HAPGOOD, Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 22, 1921. Serial No. 509,670. 9 Claims. (Cl. 233—1.)



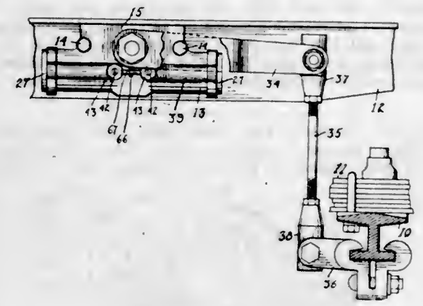
1. In the process of centrifugally separating ingredients at a temperature below the freezing point of water, the step of covering parts of the bowl on which lumps of ice tend to form by a material to which, during the rotation of the bowl, H_2O will not adhere and build up into lumps.

1,472,869. GOVERNING MECHANISM FOR INTERNAL-COMBUSTION ENGINES. HENRY KENT-NORRIS, Newbury, England, assignor to Plenty & Son Limited, Newbury, England. Filed Oct. 11, 1920. Serial No. 416,220. 10 Claims. (Cl. 123—140.)



1. An inertia governor for internal combustion engines, comprising a fuel cut-off device, means actuated by an excessive speed of the engine to operate said device to cut off the fuel supply, and means operable during the return of the speed to normal to supply a subnormal charge of fuel to the engine.

1,472,870. SHOCK ABSORBER. ARTHUR W. KETTLE and ALLAN A. THAYER, Jamestown, N. Y., assignors to Auto Spring Control Company, Inc., Jamestown, N. Y., a Corporation of New York. Filed Nov. 6, 1922. Serial No. 599,214. 8 Claims. (Cl. 188—88.)

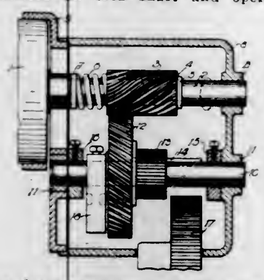


1. A shock absorber comprising a cylinder, said cylinder having a by-pass for fluid from each of its outer ends to a central portion, a double headed piston reciprocatively mounted in a cylinder to cushion on the fluid therein, said piston having passages through each of its heads for the fluid, and relief valves independent of said passages.

1,472,871. STARTING MECHANISM FOR AUTOMOBILES. CARL H. KINDL, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 18, 1919. Serial No. 331,598. 4 Claims. (Cl. 74—7.)

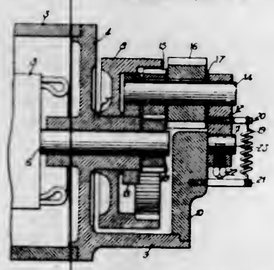
1. The combination with a shaft and a pinion, of means whereby the rotation of said shaft effects the longitudinal movement of said pinion, said means com-

prising a member secured to said pinion, a member movably mounted on ssid shaft and operatively con-



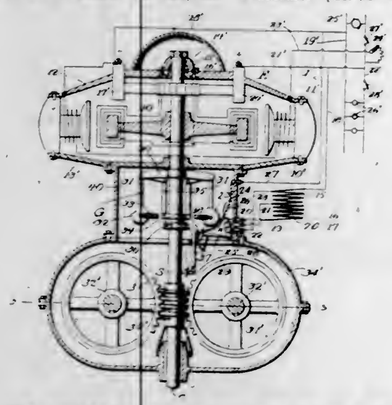
nected to the first-named member and an inertia device rotatable, but not longitudinally movable, with said pinion.

1,472,872. STARTING MECHANISM FOR AUTOMOBILES. CARL H. KINDL, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 2, 1920. Serial No. 370,878. 15 Claims. (Cl. 74—7.)



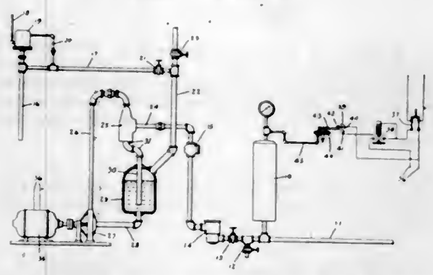
1. In a starting mechanism, the combination with an engine gear wheel, a motor, and a pinion revolubly mounted concentric with, and geared to, the shaft of said motor, of rotatable means for retarding the rotation of said pinion to actuate it into engagement with the engine gear wheel when the motor is started, said pinion being revoluble independently of said retarding means.

1,472,873. REGULATOR FOR ELECTRIC GENERATORS. ERNEST J. KOHMAN, Dillon, Kans. Filed Nov. 17, 1920. Serial No. 424,713. 2 Claims. (Cl. 74—96.)



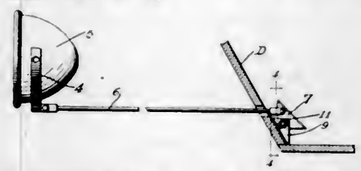
1. The combination with a motor and its main shaft, a motor control, a shaft leading from the control, a worm-wheel on the last-named shaft, and a driven shaft having a worm engaging said worm-wheel of parallel drive shafts oppositely rotated by said main shaft, driven shafts alined with them, clutches respectively connecting said shafts, pawl-and-ratchet connections between the first driven shaft and the parallel driven shafts, a governor on the main shaft, arms for respectively actuating said clutches, and connections between said governor and arms for actuating them independently according as the speed of the main shaft increases or decreases.

1,472,874. VACUUM PUMP. ARTHUR E. KRICK, Indianapolis, Ind. Filed Mar. 12, 1921. Serial No. 451,714. 11 Claims. (Cl. 230—13.)



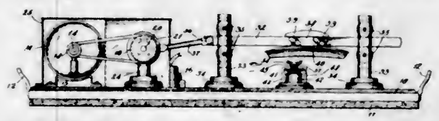
1. A vacuum pump construction including an ejector, a closed surge tank, pressure means for operating said ejector, intake and discharge means connected with said vacuum pump construction, and pressure responsive means operable by the contents contained in the intake for automatically controlling the operation of the pressure means to maintain the contents in said intake at a predetermined condition.

1,472,875. TILTABLE HEADLIGHT. JESSE A. LANDIS, Eaton, Ohio. Filed Jan. 27, 1922. Serial No. 532,280. 1 Claim. (Cl. 240—61.)



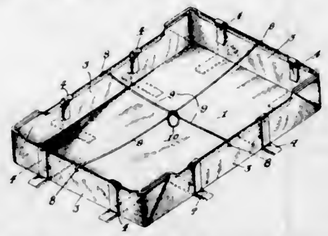
The combination with a vehicle body and brackets connected thereto, a transverse bar, yokes at the ends thereof, pivotal connections between the yokes and brackets, headlights mounted within and movable with the yokes, a pedal pivotally mounted between its ends, a connection between the pedal and one of the yokes for rotating the bar and tilting the headlights simultaneously, to raise or lower them, and adjustable resilient means mounted on the pivot of the pedal for frictionally holding the pedal and the headlights in any positions to which they may be moved.

1,472,876. ELECTRIC NAIL-POLISHING MACHINE. HARRY LARRÔS and LOUIS KRAUSE, New York, N. Y. Filed Feb. 20, 1922. Serial No. 537,971. 5 Claims. (Cl. 132—74.)



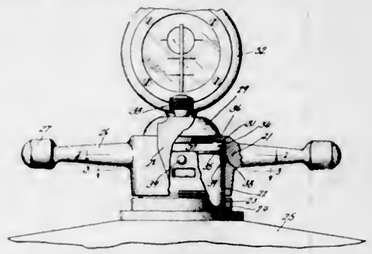
1. In a nail polishing machine, the combination with a polishing tool, of a rigid bar constituting a carrier to which said tool is fixed, means to reciprocate said carrier and tool, and means for guiding and supporting the carrier to compel it to move to and fro in the same path, said last mentioned means including a pair of uprights having anti-friction rollers for co-operation with the carrier.

1,472,877. SANITARY BATH RECEPTACLE. EDWARD N. LICHTENSTEIN, Baltimore, Md. Filed Jan. 30, 1922. Serial No. 532,678. 2 Claims. (Cl. 4—142.)



1. A sanitary bath receptacle of the kind described comprising a waterproof material having its corners folded at right angles to each other thereby forming sides for said receptacle, a cord seamed within the outer edges of said material and adapted to reinforce the same and stopping at a suitable distance from the corners, clasps provided with a body portion adapted to rest beneath the waterproof material with an upstanding portion at right angles thereto provided with a spring clip integral therewith and adapted to pass over the waterproof material and means on said spring clip for retaining the seamed cord therein, strings or cords attached to the opposite sides of the receptacle and passing through a ring or handle allowing the receptacle to be conveyed and emptied.

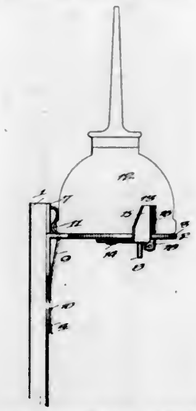
1,472,878. RADIATOR CAP. ALOYSIUS C. LIPPERT, Kenosha, Wis., and JOHN A. SINKO, Chicago, Ill., assignors to Advance Products Corporation, Chicago, Ill., a Corporation of Illinois. Filed Aug. 3, 1923. Serial No. 655,406. 7 Claims. (Cl. 220—24.)



1. In a radiator cap for automobiles or the like, the combination of an internal collar having an opening therethrough and having means for attachment to the radiator neck, an external collar fitting around said internal collar, and a pivoted closure for said external collar adapted to have a motometer or the like permanently secured thereto, said outer collar having an interior circumferential groove and said inner collar having an integral projection extending into said groove to prevent separation of the collars while permitting relative rotation of the outer collar.

1,472,879. AUTOMATIC OIL-CAN HOLDER. ELLIOT MCKENZIE, Mountain Iron, Minn. Filed June 10, 1922. Serial No. 567,374. 1 Claim. (Cl. 248—20.)

In an oil-can holder of the character described, the combination of a base having a support engaging attaching bracket portion formed thereon and depending therebelow, movable retaining means carried so as to operate on the forward portion of said base, a tongue struck from the rear portion of said base and extending upwardly from the rear end of the base, thereby forming a slot which extends from the rear portion of the base toward the center thereof, a leaf spring fixed upon said depending



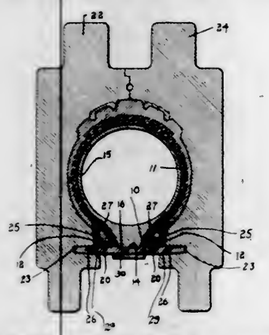
bracket and extending upwardly through said slot and having its upper end formed into a can engaging jaw, the portions of said base surrounding said slot limiting the movement of said spring forwardly and rearwardly of the base and preventing transverse movement, and said spring cooperating with said movable retaining means, as and for the purposes set forth.

1,472,880. DETACHABLE SLEIGH RUNNER FOR BABY CARRIAGES. JULIUS A. MAHR, Minneapolis, Minn. Filed June 6, 1921. Serial No. 475,217. 1 Claim. (Cl. 280—13.)



The combination with front and rear wheels of a vehicle pivoted to swing longitudinally thereof, and means for locking the wheels in extended positions, of a detachable non-resilient sleigh runner applicable to said wheels and formed from a single bar, the ends of the runner being curved upwardly on substantially the same radii as the wheels to which they are applied, said ends being alike and channel shape in cross section and of such length as to extend above the axes of said wheels to hold the same interlocked therewith, said runner being adapted to be applied to said wheels by a movement of the wheels away from each other to cause the same to enter the channels in the ends of the runner and thereby secure the runner to the wheels.

1,472,881. METHOD AND APPARATUS FOR MOLDING TIRE CASINGS. THOMAS MIDGLEY, Hampden, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Dec. 10, 1921. Serial No. 521,403. 4 Claims. (Cl. 18—38.)

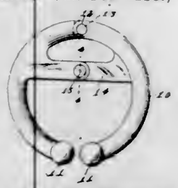


3. In an apparatus for molding tire casings, having basal annular beads, a pair of mating mold sections having a tire receiving cavity therein, a pair of annular recesses in each of the inside faces of the mold sections, a bead ring adapted to fit into the annular mold recesses and having a pair of substantially smooth outside cylindrical bead supporting surfaces of equal diameter from each bead supporting surface transversely outward to the nearest edge of the ring, a cylindrical recess in the outside face of the bead ring between the bead supporting surfaces, the bead ring having a transverse split to allow for expansion and contraction of the same, a ring wedge segment which is insertable in the transverse split to expand and contract the ring and one or more lugs located around the inside face of the ring.

1,472,882. PROCESS OF MAKING OILS NONSLUDGING. HERBERT RAYMOND MOODY, New York, N. Y. Filed Feb. 6, 1918. Serial No. 215,715. 3 Claims. (Cl. 196—26.)

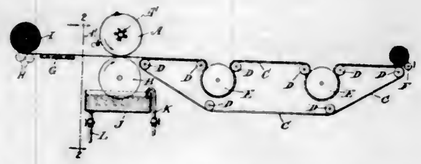
2. The process of producing a non-sludging oil, comprising the step of treating oil with nascent hydrogen, at a comparatively low temperature so that no cracking of the oil takes place, whereby the hydrogen converts the sludge-forming constituents of the oil into non-sludge-forming constituents.

1,472,883. CATTLE-LEADING RING. JOSEPH S. NAYLOR, Clear Lake, Iowa. Filed Jan. 30, 1923. Serial No. 615,821. 3 Claims. (Cl. 119—135.)



2. An improved bull ring comprising two like members, each member being substantially semi-circular in outline and round in cross section, and being provided at one end with an oval knob and at the other end with a flattened lug, and each also being provided with an arm extended inwardly from the member, said arm and said lug each being of substantially half the thickness of the ring proper and being arranged on opposite sides of the longitudinal center of the ring, a pivot pin connecting the said lugs, and a screw for connecting the said arms, one of said arms being formed with a screw thread to substantially fit the screw, and the other being formed with a screw thread to loosely fit the screw, for the purposes stated.

1,472,884. METHOD AND APPARATUS FOR ORNAMENTING MINERAL-SURFACED ROOFING. CARL J. PATER, Wyoming, Ohio, assignor to The Philip Carey Manufacturing Company, a Corporation of Ohio. Filed Dec. 3, 1920. Serial No. 427,938. 12 Claims. (Cl. 91—67.9.)



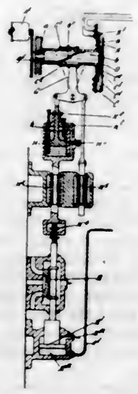
1. In apparatus for ornamenting roofing of the character described, a heated embossing element for forcing the mineral surfacing into the roofing coating, a supporting element for the roofing arranged adjacent to said embossing element, and means for imparting a liquid film to said supporting element.

5. The method or ornamenting roofing of the character described which consists in applying heat to said roofing, applying to one surface of said roofing a non-adhesive film and subjecting the opposite surface of said roofing to a heated embossing element whereby the mineral surfacing is forced into and covered by the roofing coating along predetermined lines.

8. The method of ornamenting roofing of the character described which consists in applying heat to said roofing, simultaneously subjecting one surface of the roofing to cooling means and subjecting the opposite surface of said roofing to a heated embossing element whereby the mineral surfacing is forced into and covered by the roofing coating along predetermined lines.

10. The method of ornamenting roofing of the character described which consists in applying heat to said roofing, then subjecting said roofing to heat and pressure along predetermined lines while simultaneously subjecting the under surface of said roofing to a supporting element provided with a film of non-adhesive material.

1,472,885. CONTROL SYSTEM FOR GUN MOUNTING AND OTHER MECHANISM. ARTHUR LEONARD PERHAM, Westminster, London, England, assignor to Vickers Limited, Westminster, London, England. Filed June 13, 1923. Serial No. 645,081. 6 Claims. (Cl. 89—41.)



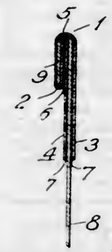
1. In a remote control system the improvements which comprise a movable receiving member, a follower member connected with the controlled element, a relay, a relay switch, means for operating said switch by the relay's own movement so as to open the switch and stop the movement of the relay, and means for decreasing the ratio of relay movement to relative displacement between receiving and follower members as the displacement increases.

1,472,886. TUBE SKATE. WILLIAM F. REACH, Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y., a Corporation of New Jersey. Filed Mar. 2, 1922. Serial No. 540,450. 1 Claim. (Cl. 46—50.)



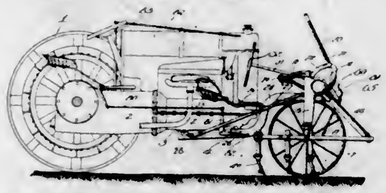
In a tubular skate a blade carrying tube having depending blade engaging flanges, a sole cone having wings at its lower end embracing the blade tube and welded thereto, the portion of the blade tube within the cone being severed, and bent up to form a substantially annular flange which is welded to the inner face of the cone, and a reinforcing tube welded to the inner face of the blade tube and having a continuous imperforate portion bridging the open portion formed by said flange.

1,472,887. INDEX TAB. WILLIAM A. RINGLER, Philadelphia, Pa. Filed Nov. 11, 1922. Serial No. 600,225. 5 Claims. (Cl. 40—23.)



1. An index tab comprising a sheet of transparent material folded upon itself to form attaching flaps, the folded sheet being doubled back upon itself along a line intermediate the first fold and the edges opposite thereto to form between the folded edges a pocket for receiving and displaying an element with suitable distinguishing characteristics.

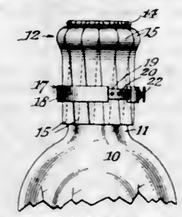
1,472,888. TRACTOR ATTACHMENT. CHARLES B. ROSE, East Moline, Ill., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Filed Feb. 9, 1922. Serial No. 535,123. 9 Claims. (Cl. 97—47.)



1. An attachment adapted to be applied to tractors, having rear drive wheels and a fore carriage without changing their construction, comprising a wheeled frame serving to act as a substitute for the fore-carriage of a tractor, means for steering the wheels, and tillage implements carried by the frame.

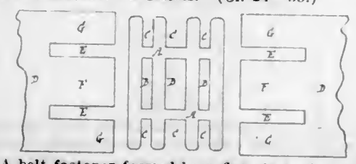
9. A tillage attachment for Fordson tractors comprising a wheeled frame adapted to be substituted for the fore carriage of a Fordson without altering the tractor construction, steering means for guiding the wheels of the frame operable from a position at one side and near the front end of a Fordson, tillage tools carried by the frame, and an operator's set supported by the wheeled frame so that it will be at one side and adjacent the front end of a Fordson to enable an operator to steer the wheeled frame, to watch the work being done by the tillage tools, and to manipulate the tractor controls.

1,472,889. BOTTLE CAP. ANTHONY C. RUGGIERO, Brooklyn, N. Y. Filed Aug. 22, 1922. Serial No. 583,624. 2 Claims. (Cl. 215—41.)



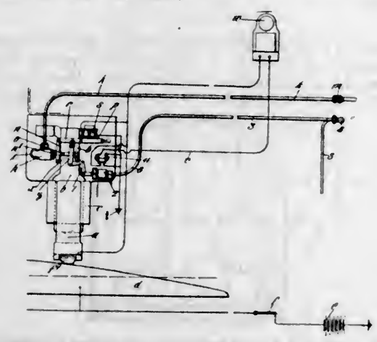
1. A bottle cap comprising an elastic hood to enclose the neck and mouth of a bottle, a disc made fast with said hood, flexible wing members hinged to said disc and adapted to be folded down over said hood, and a clamp ring bearing on said wing members for the purpose specified.

1,472,890. BELT FASTENER. THOMAS SHAW, Matangi, Waikato, New Zealand. Filed May 9, 1922. Serial No. 559,657. 4 Claims. (Cl. 24—35.)



1. A belt fastener formed by a flat plate of metal made with a series of three slots extending in from each of its side edges in parallel lines and with intermediate closed slots arranged in parallel lines across the plate's width and in respectively uniform lines with the three slots of the outer two series of slots, substantially as specified.

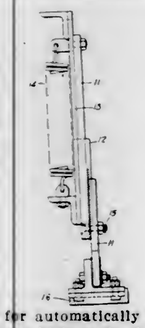
1,472,891. RAILWAY SIGNALING APPARATUS. EDMUND SPENSER TIDDEMAN, Hornchurch, England, assignor to W. R. Sykes Interlocking Signal Company Limited, Clapham, London, England. Filed July 24, 1920. Serial No. 398,786. 7 Claims. (Cl. 246—181.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



4. In railway signal apparatus, the combination of an air brake system, a whistle connected therewith, a brake

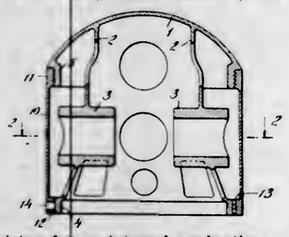
valve in said system controlling the connection with said whistle, a lever for maintaining said valve in its closed position, a slidable plunger, a trigger carried by said plunger and arranged to lock and unlock said brake valve lever in accordance with the movements of said plunger, an electro-magnet, a linkage system connected with said brake valve lever and controlled by said electro-magnet to lock said brake lever in its operative position or to permit it to move to an inoperative position whereby the brake valve is opened and the whistle sounded, and a pneumatically operated resetting motor connected with said linkage system for resetting said brake valve lever to its operative position.

1,472,892. RAILWAY SIGNALING APPARATUS AND APPARATUS FOR STOPPING TRAINS INDEPENDENTLY OF DRIVERS. EDMUND SPENSER TIDDEMAN, Hornchurch, England, assignor to W. R. Sykes Interlocking Signal Company Limited, Clapham, London, England. Filed July 24, 1920. Serial No. 398,787. 4 Claims. (Cl. 246—181.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



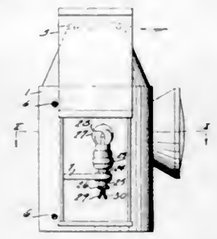
1. In apparatus for automatically applying the brakes of a railway train or vehicle, and coincidentally actuating an alarm signal in the locomotive cab, the combination of a steam valve connected with the boiler of the locomotive, a controlled lever arranged to normally maintain said steam valve in its closed position, an automatic valve casing connected with the outlet end of said steam valve, a first connection from said automatic valve casing to the steam brake system of the locomotive, a second connection from said automatic valve casing to the exhaust of the engine driver's brake valve, an automatic valve in said automatic valve casing for alternately controlling the communication between said first and second connections and the connection from said automatic valve casing to said steam valve, a connection from the outlet side of the latter to a signaling device in the locomotive cab and means for restoring the controlled lever to normal position.

1,472,893. PISTON CONSTRUCTION. PAUL GERHARD TISMER, New York, N. Y., assignor to Ringless Piston Company, a Corporation of Delaware. Filed Aug. 25, 1921. Serial No. 495,317. 4 Claims. (Cl. 74—108.)



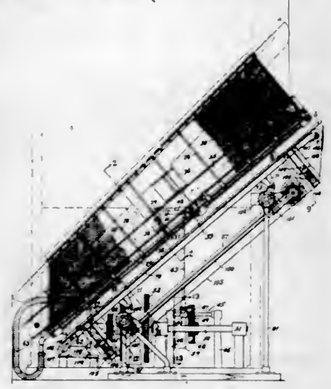
1. In a piston for an internal combustion or other engine, a centrally disposed frame including a convex head and longitudinally extending webs engaging the head at a point well above the lower point thereof, wrist pin bearings carried by the said webs, in combination with a cylindrical shell that engages with the frame at the upper and lower edges of said shell, said bearings being out of contact with said shell.

1,472,894. LANTERN BRACKET. ARMAND J. VALLÉE, Oneonta, and IRVING H. SCRAFFORD, Altamont, N. Y. Filed June 1, 1921. Serial No. 474,177. 1 Claim. (Cl. 240—52.)



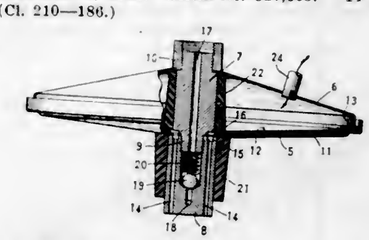
In a lantern lamp bracket, in combination; a vertical support; a horizontal support formed with a bifurcation and adjustable vertically and radially upon said vertical support; positive means for maintaining a particular adjustment of the horizontal support; a lamp support including a tubular member formed with a screw-thread on its end remote from the lamp passing between the bifurcation and a threaded member on the tubular member for tightening against the bifurcated ends so as to maintain the lamp in adjusted position rotatively on a vertical axis and longitudinally of the horizontal support.

1,472,895. CUTTING MACHINE. JULIUS WEGNER, New York, N. Y., assignor, by mesne assignments, to Spadone Machine Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 12, 1921. Serial No. 451,856. 14 Claims. (Cl. 164—73.)



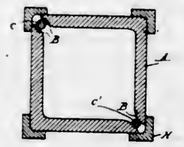
1. The combination of a cutting mechanism for cutting material into successive sections, a pivotally movable device for removing the cut sections of material, means for positively actuating said device throughout the beginning of its pivotal movement, the latter being brought to completion by momentum and gravity and means for effecting a return of said device to its initial position independently of said first means.

1,472,896. FILTER. SAMUEL ALSOP, New York, N. Y. Filed Jan. 7, 1922. Serial No. 527,663. 14 Claims. (Cl. 210—186.)



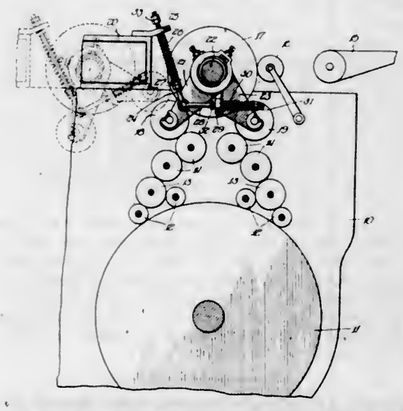
1. A filtering casing having a central spindle with an air outlet and a liquid inlet, a bushing on said spindle adapted to fit a bottle neck, the entrance to the air outlet being at a higher level than the exit of the liquid inlet, so that inflowing liquid will avoid the outflowing air.

1,472,897. STEEL NEWEL POST. CONRAD E. ANDERSON, Detroit, Mich. Filed Nov. 30, 1921. Serial No. 518,760. 8 Claims. (Cl. 189—23.)



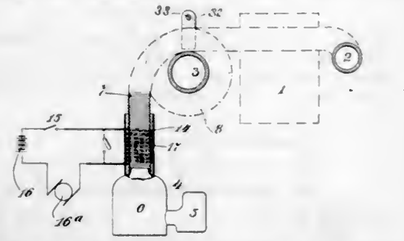
1. A hollow steel post comprising a pair of opposed angle bars having abutting flanges a rigid connection therebetween and relatively small apertured angle bars embracing said abutting flanges and having a welded connection therewith through said apertures.

1,472,898. INKING MECHANISM. JOSEPH R. BLAINE, Chicago, Ill., assignor to Miehle Printing Press and Manufacturing Company, Chichago, Ill., a Corporation of Illinois. Filed Aug. 17, 1921. Serial No. 492,883. 14 Claims. (Cl. 101—351.)



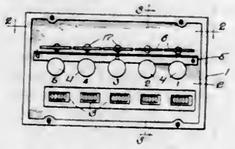
1. In a printing press, the combination of a plate cylinder, inking rolls associated therewith, and yieldably interconnected transfer rolls for transferring ink to said inking rolls for transferring ink to said inking rolls and mounted in a manner whereby they automatically position themselves when applied to said inking rolls.

1,472,899. CONSTRUCTION FOR INTERNAL-COMBUSTION ENGINES. ROBERT S. BLAIR, Sound Beach, Conn. Filed May 9, 1919. Serial No. 295,874. 14 Claims. (Cl. 219—38.)



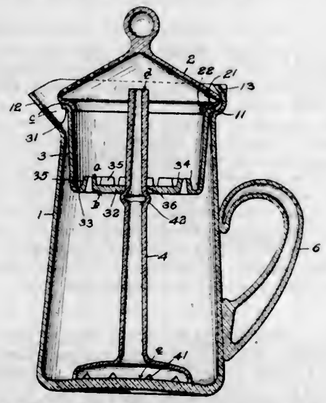
1. In fuel-treating apparatus for internal combustion engines, in combination, an engine, a carbureter, and a conduit adapted to lead fuel from said carbureter to said engine and provided with inwardly projecting parts adapted to cause turbulence in the fuel passing therethrough.

1,472,900. TAX-SALES REGISTER. MONTRAVILLE H. BOWDLE, Chicago, Ill., assignor to Fred M. Davis, Chicago, Ill. Filed Feb. 6, 1922. Serial No. 534,428. 5 Claims. (Cl. 235—91.)



1. In a device of the character described, a support and a pair of self-restoring plungers mounted thereon in parallel relation, one of said plungers having a manual push member, and connections for said plungers being provided, including a limited movement sliding guide and stop shoulder mechanism and an automatic latch for the other plunger to hold it in effective position.

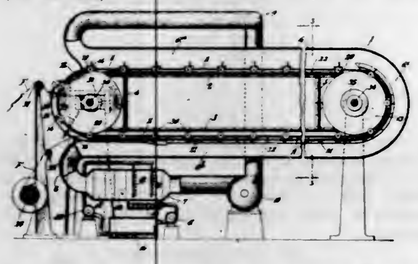
1,472,901. COFFEEPOT. RALPH F. BRENNER and FRANCIS A. MURRIN, Rochester, Pa., assignors to H. C. Fry Glass Company, Rochester, Pa., a Corporation of Pennsylvania. Filed May 19, 1922. Serial No. 562,103. 2 Claims. (Cl. 53—3.)



1. A one-piece, all glass percolator cup for a coffee pot having its bottom formed into three concentric areas, a marginal trough, a central area, and an intermediate

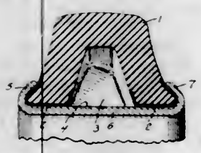
annular area, said intermediate area being elevated above the marginal and central areas, the bottom of the cup being perforate at intervals throughout the extent of the said annular area.

1,472,902. DRIER. CLAUDE A. BULKELEY, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 26, 1920. Serial No. 354,033. 20 Claims. (Cl. 34—12.)



5. In a drier, in combination, an inclosing structure having partition means therein providing a forward-and-back drying chamber having separated forward and back reaches, means for conveying the material to be dried along said chamber, and provisions for the circulation of a column of drying fluid along the length of said chamber and along the reaches in succession and in a direction opposite to that of the travel of said means; said partition means extending longitudinally of said structure and bridging the same from side to side thereby to form the forward reach and the backward reach of said chamber independently of said conveying means.

1,472,903. CUSHION TIRE AND MANUFACTURE THEREOF. LAURENCE R. DAVIS, Weehawken, N. J., assignor to Providence Rubber Company, a Corporation of Rhode Island. Filed Feb. 17, 1922. Serial No. 537,179. 5 Claims. (Cl. 29—159.)

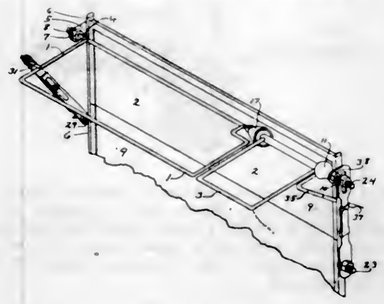


1. As an article of manufacture, a solid cushion tire recessed on its inner periphery to augment its cushioning capacity and under tension circumferentially, and a metallic base-band with integral flanges preventing lateral shift of the tire.

3. The process of making a unitary cushion tire and rim which consists in, amassing vulcanizable rubber tire constituents in the form of an annulus vulcanizing the annulus to form a tire having its inner periphery recessed to augment its cushioning capacity, mounting the tire upon a metallic base-band, bending over one or both margins of the metallic base-band to form side-flanges, and finally expanding the base-band to a size permitting pressure application to a wheel and to grip together the base-band and vulcanized tire.

1,472,904. WINDSHIELD LIGHT SHADE FOR AUTOMOBILES. HARRY C. ELLIOTT, Towanda, Kans. Filed June 9, 1922. Serial No. 567,088. 1 Claim. (Cl. 296—95.)

In a light shade for automobiles, the combination of a wind shield, a shade pivotally mounted thereon, said shield comprising two members, means for supporting said shade in a fixed position, a minor portion of said shade having a sleeve by which means said shade member being axially mounted on a shaft, said shaft having sockets, one of which is rigidly attached and the opposite socket is threaded on said shaft for adjustm nt and



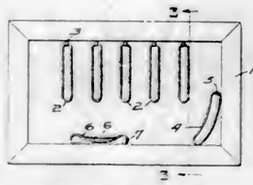
tensioning when engaged with pivots on said minor shade frame, and means for locking said sockets in a fixed position, an arm attached to sleeve of said shade and extending rearward within reach of operator, for the purpose set forth and described.

1,472,905. BUMPER. CHRISTIAN GIRL, Kalamazoo, Mich. Filed Jan. 31, 1923. Serial No. 615,997. 7 Claims. (Cl. 293—55.)



7. An automobile bumper comprising a front or impact bar and a rear or auxiliary bar, the end of one bar being spaced from the corresponding end of the other bar, and a looped plate connecting such ends.

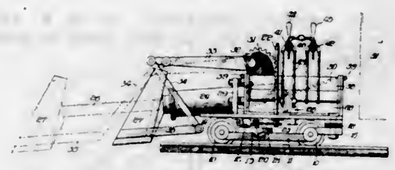
1,472,906. FINGER EXERCISER. CHARLES R. GORRELL, Toledo, Ohio. Filed Apr. 27, 1922. Serial No. 556,844. 1 Claim. (Cl. 46—69.)



In a finger exerciser, a rectangular frame having considerable thickness for readily supporting the frame on one side edge, a plurality of elastic bands connected to the upper side of the frame and depending therefrom to near the center of the frame, and an elastic band secured to one end of the frame near the center of the end and on the inside of the frame and of a length to extend to near the center of the frame.

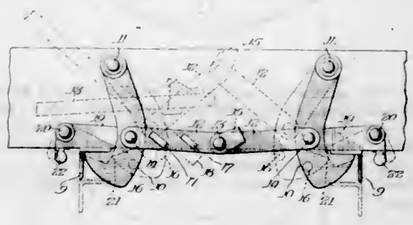
1,472,907. LOADING MACHINE. ALEXANDER M. GOW, Duluth, Minn.; American Exchange National Bank of Duluth executors of said Alexander M. Gow, deceased. Filed Jan. 16, 1919. Serial No. 271,351. 9 Claims. (Cl. 214—132.)

1. In a loading machine, the combination of a truck, a thrusting cylinder pivotally mounted on said truck for vertical swinging movement, a shovel operatively connected to said thrusting cylinder, and operatively associated cylinders on opposite sides of said thrusting cylinder and operatively connected to the shovel for raising



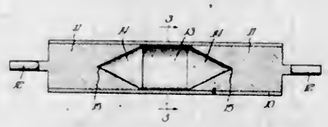
the same over the truck for dumping purposes, and at the same time swinging the thrusting cylinder about its pivot.

1,472,908. DUMP-CAR-DOOR LOCKING AND RELEASING ATTACHMENT. HARRY S. HART, Chicago, Ill. Filed Jan. 3, 1922. Serial No. 526,588. 16 Claims. (Cl. 105—308.)



1. In a dump car door locking mechanism, a latching member, and a locking means entering into and retiring from locking position by the latching and unlatching of the door, said latching member having a support located to prevent transmission of the load of the door to said locking means.

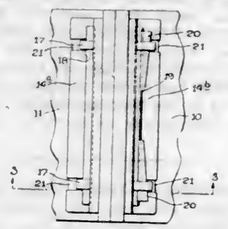
1,472,909. LITHOGRAPHIC AND PRINTING FORM ROLLER. CARL HENDERSON, Chicago, Ill., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 1, 1922. Serial No. 533,187. 3 Claims. (Cl. 101—375.)



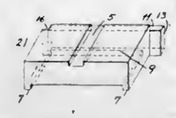
1. A lithographic and printing form roller comprising a cylindrical shell, and means mounted in said shell for loading the same and distributing the weight therein for reducing the tendency of the roller to sag intermediate its ends.

1,472,910. CONNECTING DEVICE FOR BELTS. GEORGE E. HULSE, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed Mar. 20, 1922. Serial No. 545,025. 9 Claims. (Cl. 24—31.)

1. In apparatus of the general nature of that herein described, in combination, a pair of adjacent belt ends, a plate member supported on one end of said belt ends, a connecting member connected to said other belt end passing through said plate member and having an elongated opening therein, and a wedge in said opening bearing against one side thereof and against said plate member.

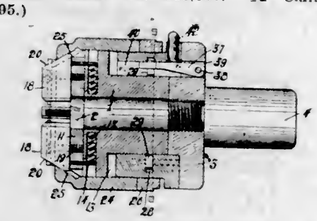


1,472,911. INTERLOCKING BUILDING BRICK. JAMES HUNDLEY, Noblesville, Ind. Filed Sept. 22, 1921. Serial No. 502,477. 3 Claims. (Cl. 72—38.)



1. A building brick formed with a plurality of depending lugs in spaced relation to one another on one horizontal face of said brick, a vertical lug adjacent one end of said brick adjacent the exterior face of the brick, a vertical recess on the opposite end of said brick in alignment with said vertical lug, a transverse recess in the surface opposite said depending lugs and in spaced parallel relation to said depending lugs, a plurality of bonding recesses on the interior face of the brick, said vertical lug projecting to a greater extent than the depth of said vertical recess, and said depending lugs projecting to a greater extent than the depth of the transverse recess, a longitudinal depending lug in alignment with said vertical lug and connecting one extremity of said first mentioned depending lugs adjacent the exterior face of the brick, a longitudinal recess on the opposite edge of said exterior face so positioned that when a series of said brick are laid together to form a wall the exterior face of said wall will form a continuous smooth surface while the interior face will possess spaced recesses between adjacent bricks, except where said lugs engage said recesses, essentially as and for the purpose described.

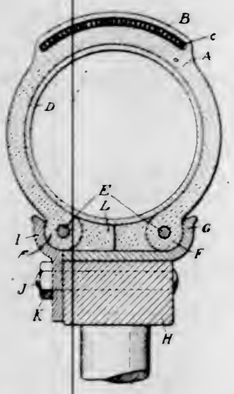
1,472,912. DIE HEAD. CONRAD JOBST, Toledo, Ohio, assignor to Robert L. Ellery, Toledo, Ohio. Filed Jan. 29, 1921. Serial No. 440,837. 12 Claims. (Cl. 10—95.)



8. In a die head, a carrying member, a chaser holder carried by the member for limited axial movements relative thereto, means normally retaining the member and holder at the limit of their inward relative movements, a set of chasers carried for true radial movements by the holder, means carried by the holder for limited relative movements longitudinally thereof and having a tapered

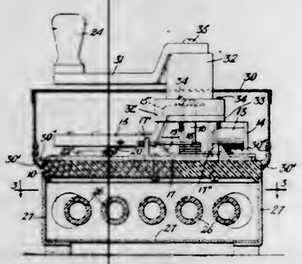
chaser coacting part for holding the chasers in operative relation when the means is in one position of its relative movement, means normally urging a movement of the chaser coacting means from operative chaser holding position, means for locking the chaser coacting means in operative chaser holding relation to the holder means automatically operable to release the locking means when the chaser holder has moved outward a predetermined distance relative to the carrying member, and means for returning the first means to operative chaser holding position.

1,472,913. PNEUMATIC TIRE. PETER JONES, Wigan, England. Filed Apr. 14, 1921. Serial No. 461,184. 5 Claims. (Cl. 152—18.)



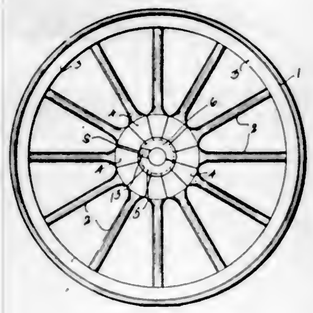
5. In an armored tire, the combination of a tire body having spaced beads on the inner periphery thereof; an annular filler interposed between said beads and filling the space there between, the upper surfaces of said filler and said beads being adapted to form a substantially flat surface upon the defiation of the tire under load; an inner tube within said tire body; and an endless armor strip embedded in the tread of said tire body and formed of wire fabric, comprising spiral springs intercalated with each other and extending at a slight angle from one side of the armor strip to the other.

1,472,914. RHEOSTAT. LEONARD KEBLER, Bronxville, N. Y., assignor to Ward Leonard Electric Company, a Corporation of New York. Filed Mar. 23, 1920. Serial No. 368,109. 19 Claims. (Cl. 219—48.)



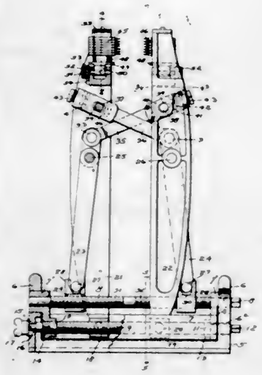
1. In a rheostat, a series of resistance contacts on the face plate, a controlling contact arm, a plurality of resistance tubes back of the face plate, said tubes being of insulating material and having resistance wound thereon, and a pair of plates opposite the ends of said resistance tubes and having perforations in line with the ends of said tubes, the ends of said tubes being seated in and directly supported by said plates.

1,472,915. WHEEL EXPANDER. JOSEPH B. KLEIN, Colton, Wash. Filed Sept. 23, 1922. Serial No. 590,037. 3 Claims. (Cl. 157—9.)



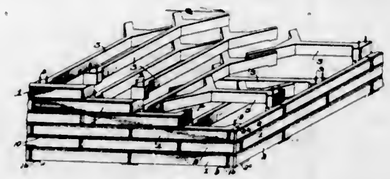
1. The combination with a pair of plug sections having adjoining plane faces terminating in beveled ends to form a wedge-shaped pocket, of means for holding said sections against relative longitudinal movement, and said sections having oppositely rounded complementary faces to compensate for the entrance of a wedge between said plane faces.

1,472,916. SPRING SPREADER FOR VEHICLE SPRINGS. GOTTLIEB L. E. KLINGBEIL, Omaha, Nebr. Filed Apr. 13, 1923. Serial No. 631,811. 9 Claims. (Cl. 81—3.)



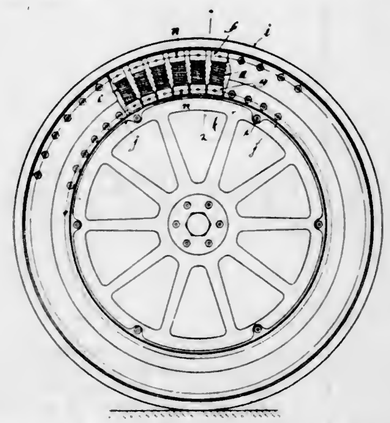
1. A spring spreading device of the character described comprising a pair of standards, wedges carried by said standards at the upper ends thereof, means for moving the upper portions of said standards forcibly toward each other and means for adjusting the lower portions of said standards toward and from each other comprising a right and left threaded screw and members to which traveling movement is imparted by said screw and upon which the lower portions of the standards are supported.

1,472,917. PRECAST REENFORCED CONCRETE CONSTRUCTION. ALBERT NORMAN LAIRD, Detroit, Mich. Filed Nov. 8, 1922. Serial No. 599,653. 6 Claims. (Cl. 61—47.)



1. In a precast concrete construction, the combination of facing members, Y shaped header members, and means for connecting said facing members and said header members, substantially as described.

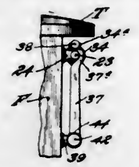
1,472,918. SPRING TIRE FOR VEHICLE WHEELS. JOHN LAMB, Oldham, England, assignor of one-half to John Brunyea Wilson, Oldham, Lancaster, England. Filed Aug. 2, 1923. Serial No. 655,362. 4 Claims. (Cl. 152—8.)



1. A spring tire for automobile and like wheels, comprising a plurality of radially arranged spiral springs each formed with an eye at each end, an inner rim adapted for attachment to the wheel felly, a series of brackets attached to said rim and formed with upstanding flanges bored to receive transversely arranged through-bolts, an outer rim, and a series of brackets attached to said rim and formed with upstanding flanges bored to receive transversely arranged through-bolts, bolts passing through all said brackets and the respective spring eyes, and endless steel bands passing around both ends of the springs, substantially as described.

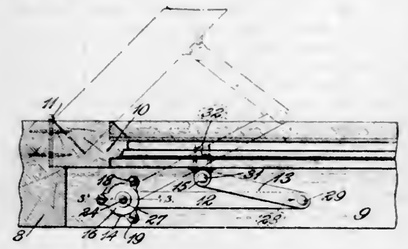
1,472,919. AWNING FOR AUTOMOBILES. ALFRED M. LANE, St. Louis, Mo., assignor to Monarch Metal Products Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 7, 1921. Serial No. 443,131. 5 Claims. (Cl. 296—95.)

1. An awning for automobiles comprising a roller adapted to be rotatably supported on such automobile, a curtain adapted to be rolled upon said roller, a pair of arms pivotally supported on said automobile on opposite sides of said curtain and having their free ends connected to the free end of said curtain, and a casing enclosing said roller and having a longitudinal throat portion through which the free end of said curtain is drawn,



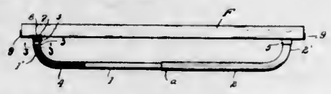
said casing being rotatably supported whereby the throat portion thereof is adapted to follow the angular positions of said curtain when the same is raised and lowered.

1,472,920. WINDOW STAY. JAMES A. LANE, Los Angeles, Calif. Filed Dec. 6, 1920. Serial No. 428,473. 6 Claims. (Cl. 292—263.)



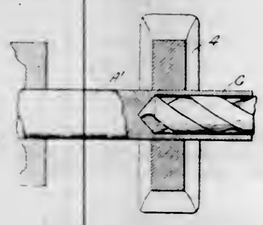
1. A window stay comprising a link and an anchor member for pivotally supporting one end of said link, said anchor member being adapted to be secured to the window sill and having a raised annular portion provided with a central opening, a pivot disposed within said opening, a friction plate secured to said pivot within said annular portion, a friction washer surrounding said pivot between said plate and said annular portion, a friction washer located on the opposite side of said annular portion, a friction plate secured to said link and to said pivot adjacent to said second mentioned friction washer, and a screw engaging said pivot for clamping said friction washers between the opposite sides of the annular portion of said anchor member and said friction plates, whereby the swinging movement of said link is frictionally resisted.

1,472,921. CURTAIN SUPPORT. WILLIAM I. LEVI, St. Louis, Mo. Filed Jan. 31, 1921. Serial No. 441,263. 2 Claims. (Cl. 156—19.)



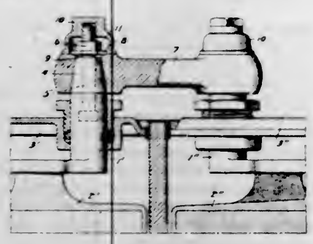
2. As a new article of manufacture, a curtain-support comprising a telescopic pole laterally bent at its ends, so that the major portion of the pole, when the pole is in curtain-supporting position, will stand away from the window, and a coiled spring extending lengthwise within, and having engagement at its opposite ends with, both members of the pole, in combination with means adapted for detachable engagement with the pole for detachably securing the support upon a window-frame or the like, said means including closure-plugs disposed tightly upon the opposite ends of the pole, each of said plugs being axially slotted, plates adapted for flatwise removable disposition upon the window-frame, lateral extensions on the plates projecting slidably into the slots of the closure-plugs and thereby having removable engagement with the pole, and hooks projecting from the plates for detachable engagement with the window-frame.

1,472,922. MANUFACTURE OF ROLLER-BEARING CUPS AND THE LIKE. MARCUS T. LOTHROP, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Jan. 4, 1922. Serial No. 527,009. 9 Claims. (Cl. 29—156.)



1. The process of manufacturing cups for roller bearings and the like which consists in turning the outer surface of a tube or bar to a cylindrical form throughout its length, boring the end of such tube or bar concentric with the outer surface thereof to a depth sufficient for several slugs, severing therefrom annular slugs of the mass required for the finished cup, die-shaping such slugs, heat treating the same and quenching the same while restrained to prevent distortion.

1,472,923. CELL CONNECTER FOR ELECTRIC BATTERIES. LAMAR LYNDON, New York, N. Y. Filed Oct. 4, 1921. Serial No. 505,418. 10 Claims. (Cl. (204—29.)



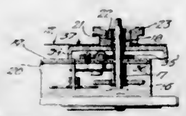
1. In a connecter for electric batteries, a connecter link made of acid-resisting material, having tapered holes, the terminal posts of the battery having tapered ends fitting into said tapered holes but not extending all the way to the upper surface of said connecter link, a stud of hard metal cast into each terminal post and extending beyond its tapered end, the extended portion of said stud being threaded to receive a nut, a spider interposed between said nut and the upper surface of said connecter link, and a cap made of acid resisting material screwed into the threaded portion of said stud.

1,472,924. WATER-WHEEL GATE. LAMAR LYNDON, New York, N. Y. Filed Oct. 4, 1921. Serial No. 505,419. 4 Claims. (Cl. 253—122.)



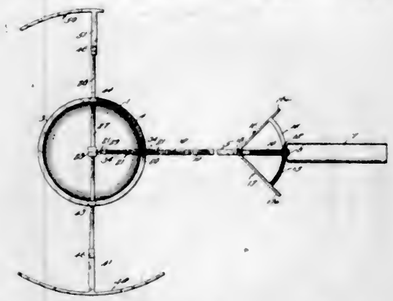
1. A wicket gate for water wheels, made of a comparatively hard material and provided with a strip of softer material, which strip is inset in a portion of said wicket gate and forms the seat for one end of the next adjacent gate cooperating therewith.

1,472,925. WATCHMAN'S TIME RECORDER. JAMES L. L. MCCORMACK, Chicago, Ill., assignor, by mesne assignmens to Detex Corporation, Chicago, Ill., a Corporation of Delawage. Filed Dec. 27, 1921. Serial No. 524,827. 4 Claims. (Cl. 234—37.)



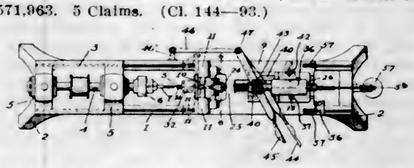
4. The combination with a clock movement comprising a setting stem, of a frame plate through which said setting stem projects, a dial sleeve rotatably mounted on the projecting end of said setting stem, a worm wheel secured to the inner end of said dial sleeve, means for connecting said clock movement and said worm wheel comprising a gear wheel driven from said movement, a shaft, to the inner end of which said gear wheel is secured, a first bevel gear secured to the outer end of said shaft, a worm meshing with said worm wheel, and a secono bevel gear for driving said worm wheel and meshing with said first bevel gear, the outer surface of said frame plate being provided with a depression for receiving said worm.

1,472,926. PLATE OR PAN HANDLING UTENSIL. JAMES H. MCDONALD, Pocatello, Idaho. Filed Dec. 9, 1922. Serial No. 605,950. 10 Claims. (Cl. 294—34.)



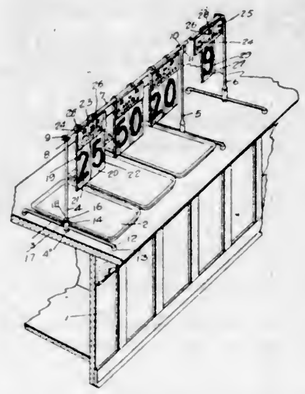
1. A plate or pan handling utensil comprising a handle member, clamping jaws carried by said member, means on the handle connected to move said jaws toward and away from each other, and other means on the handle connected to revolve the jaws in unison.

1,472,927. WOOD-DRILLING LATHE. FRANK H. MCLAIN, Portland, Me. Filed June 30, 1922. Serial No. 571,963. 5 Claims. (Cl. 144—93.)



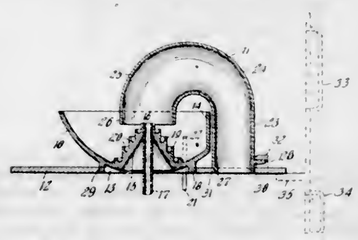
1. In a wood drilling lathe, the combination, with a bed, a head-stock and a tool carrying spindle mounted within said head-stock, of a slidable carriage, a tail-stock mounted on the rearward end of said carriage, a chucking mechanism mounted on the forward end of said carriage, actuating means for operating said carriage with said chucking and said tail-stock member conjunctively, backward and forward on said lathe bed, to and from the drilling or boring tool in said spindle, and means for independently varying the pressure of chuck jaws around the material being operated on, before, during and subsequent to the drilling or boring operation, under the control and at the will of the operator.

1,472,928. COUNTER-DISPLAY PRICE-INDICATING-TICKET DEVICE. HUGH ROSS MACKENZIE, Toronto, Ontario, Canada. Filed Dec. 15, 1922. Serial No. 607,251. 3 Claims. (Cl. 40—63.)



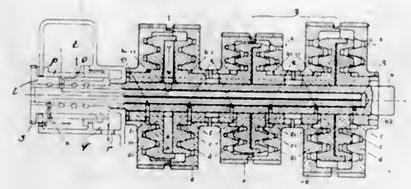
1. In a counter display price indicating ticket device, the combination with the supporting structure provided with a horizontal rod extending over a series of counter displayed articles, of a price ticket comprising a lower price indicating portion and an upper blank portion, a description ticket superimposed upon the blank portion of the price indicating ticket, and means for suspending such tickets in the aforesaid position from the supporting structure.

1,472,929. OIL BURNER. GEORGE H. MAHAN, Chicago, Ill., assignor to George O. Hope and George H. Mahan, Copartners doing business as Atlas Oil Burner Company, Chicago, Ill. Filed Aug. 7, 1922. Serial No. 579,983. 2 Claims. (Cl. 158—91.)



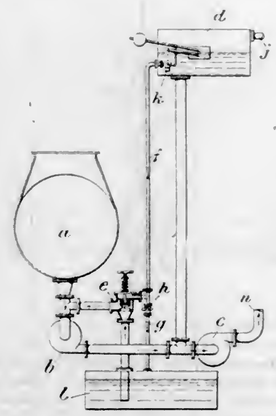
1. As an article of manufacture, an oil burner adapted to be used in furnaces and other heaters having the usual door openings in the front thereof, said oil burner comprising, a bowl with a concave upper face adapted to be placed approximately in the center of the fire pot of the heater, said bowl having an upwardly projecting cone-shaped fuel distributor in the center thereof; means for supplying and delivering fuel at the top of said cone-shaped distributor to permit the fuel to flow downwardly over the distributor; and means for supplying air to combine with the fuel, said means including a member having an air delivery opening disposed over the top of the cone distributing means and intake openings disposed at the front of the bowl and adapted to be positioned immediately adjacent the front of the heater, the combined area of said openings being greater than the area of said delivery opening, the top of the bowl being unobstructed throughout its major portion, including the back portion thereof.

1,472,930. HYDRAULIC COUPLING. FRITZ MAYER, Ulm, Bavaria, Germany, assignor, by direct and mesne assignments, to John Keller, Oberlenningen-Teck, Wurttemberg, Germany. Filed Sept. 10, 1920. Serial No. 409,492. 2 Claims. (Cl. 192—87.)



1. In a hydraulic coupling, the combination with a hollow shaft provided with separate longitudinal conduits therein and having bores in its wall, and means for controlling the flow of a liquid under pressure through the said conduits, of sets of inner coupling members mounted on the said shaft for relative axial movement thereon and provided with bores adapted to register with the bores in the wall of the said hollow shaft, stepped pistons formed on the said inner coupling members, corresponding sets of outer coupling members adapted to frictionally engage with the said inner coupling members and having hubs corresponding to the said stepped pistons, the contact between the said inner and outer coupling members being restricted to the said hubs and pistons upon the said coupling members being disconnected.

1,472,931. FEED-WATER-CONTROL SYSTEM. DONALD BAANS MORISON, Hartlepool, England. Filed Nov. 27, 1922. Serial No. 603,602. 5 Claims. (Cl. 103—2.)

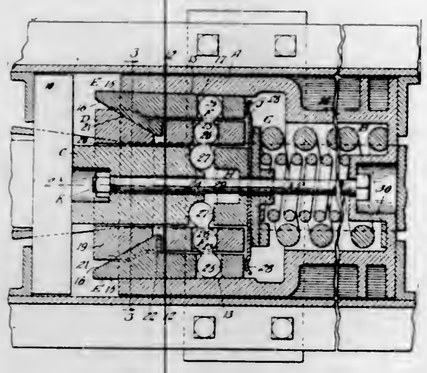


1. A feed water system comprising a condenser, a pump to which condensate from the condenser flows, an elevated tank and a connecting pipe between said elevated tank and the suction pipe of said pump.

1,472,932. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Dec. 10, 1921. Serial No. 521,297. 9 Claims. (Cl. 213—34.)

1. In a friction shock absorbing mechanism, the combination with a friction shell; of a spring resistance; friction-shoes cooperable with said shell; wedge means coop-

erable with said shoes, said wedge means being arranged in spaced relation to said spring resistance; a load-pressure-transmitting member; and a lever cooperating



with said member and centrally pivoted on said wedge means arranged to transfer and increase the effective pressure from said member to said wedge means.

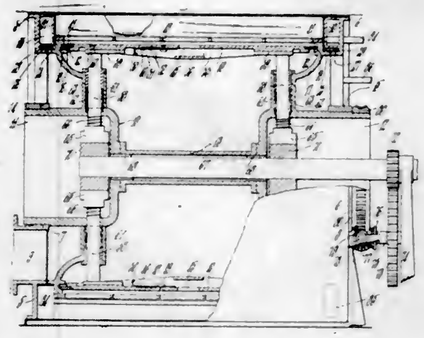
1,472,933. PORTIÈRE. ANTONY PASZKIEWICZ, Mount Carmel, Pa. Filed July 3, 1922. Serial No. 572,373. 2 Claims. (Cl. 156—10.)



2. A portière comprising a number of chain-like strips having links formed with longitudinal passages, transversely extending tubular elements interposed between the various links and forming in part the means for connecting the links to one another, and looped cords passed through said passages and through the said tubular elements to join the said links into a chain-like structure, the cords which pass through a pair of adjacent links passing also through a common interposed tubular element.

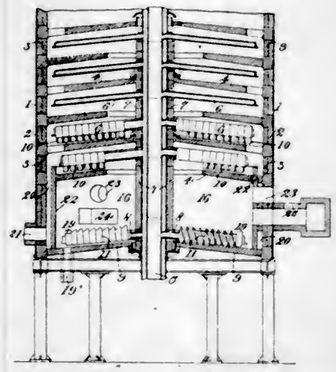
1,472,934. PULP-SCREENING DEVICE. ARVIN R. PAULL, Utica, N. Y., assignor of one-third to Benjamin J. Fisher and one-third to William F. McCann, both of Utica, N. Y. Filed Nov. 1, 1920. Serial No. 420,953. 31 Claims. (Cl. 92—36.)

1. In a pulp-screening machine, a cylindrical casing, a cage concentrically mounted for rotation in said casing and provided with a plurality of peripheral screen plates, a reciprocable plunger cooperating with each screen



plate, means for rotating the cage, and means for reciprocating the plungers during the rotation of said cage.

1,472,935. CALCINING APPARATUS. ROBERT D. PIKE, San Francisco, Calif. Filed Dec. 20, 1922. Serial No. 608,088. 11 Claims. (Cl. 222—4.)

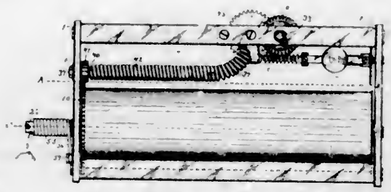


1. A calciner for the described purpose, the same comprising an outer shell, a series of superposed hearths arranged therein in staggered relation, a series of rabble arms associated with and movable over each of said hearths, a rotatable column carrying said arms centrally extended through the shell, a bottom hearth for the shell situated below the lowermost hearth of the series of hearths a distance in excess of the distance between said hearths to provide an enlarged combustion chamber, means for admitting combustible fuel and air for supporting combustion within the said chamber, a series of rabble arms carried by the rotatable column and movable over the bottom hearth of the calciner for advancing calcined material to a discharge outlet, and a plow-shaped rabble tooth covering for each of the rabble arms associated with the said bottom hearth.

1,472,936. SPRING MOTOR. HENRY L. PITMAN, Brooklyn, N. Y. Filed Feb. 20, 1917. Serial No. 149,855. 21 Claims. (Cl. 185—39.)

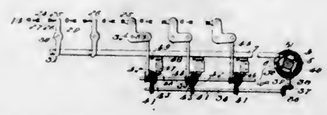
1. A spring motor for talking machines, comprising a series of concentric layers of spring forming a multiple coil made up of a single piece of resilient round wire, a rotatable member to which one end of said resilient wire

is connected, a driving member to which its other end is connected, a spindle adapted to carry a record disk, and



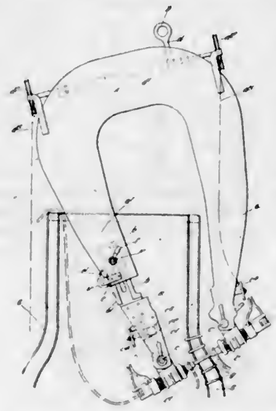
a flexible shaft connected to said spindle, movement-multiplying gear connections being provided between the spindle and driving member.

1,472,937. FARE-COLLECTING DEVICE. JOHN WESLEY POPE, Memphis, Tenn. Filed Oct. 2, 1919. Serial No. 327,896. 6 Claims. (Cl. 194—69.)



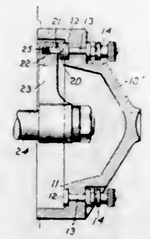
6. In a device of the character described, a turn stile, locking mechanism for the turn stile, release mechanism for the locking mechanism including a master bar having a series of pins, a series of cams cooperable with the pins, and coin operated mechanism controlling said series of cams.

1,472,938. RIVETING MACHINE. RUPERT P. RICHARDS, Newton-le-Willows, England, assignor to The Vulcan Foundry Limited, Newton-le-Willows, Lancaster, England, a British Company. Filed Mar. 13, 1922. Serial No. 543,353. 3 Claims. (Cl. 78—48.)



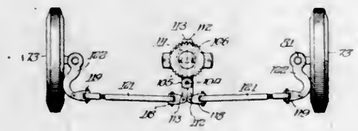
1. In a double tool riveter, a rigid U-shaped frame comprising a pair of tool carrying legs, a separate adjustable frame member forming the terminating portion of one of the said rigid frame legs, a slide on the upper end of the said separate member, a guide in the end of the corresponding leg, means for adjusting the slide in the guide and for locking it in adjusted position and a pair of opposed riveting tools one of which is mounted on the said adjustable frame member, for the purpose specified.

1,472,939. TIMER. FRANK RIEGELMAN, Rumson, N. J., assignor to Bertha W. Reid, Highlands, N. J. Filed Mar. 22, 1920. Serial No. 367,954. 1 Claim. (Cl. 200—24.)



A low tension timer for ignition systems of the character set forth, comprising in combination with a rotating timer arm carrying a brush, a one-piece hollow glass housing having integral end and side walls surrounding and covering the rotating timer arm, said housing having at the inside face of the end wall thereof, an integral flat smooth hard glass track opposed to the brush of the time arm with a plurality of contacts set substantially flush therein for engagement by the brush traveling over the track, said end wall of the housing being substantially transparent to disclose the action of the contacting face of the brush in its travel over the track and the contacts seated therein, the integral glass side wall of the housing also being substantially transparent to disclose the engagement of the brush with the track and contacts, the housing as a whole being adjustable rotatably over the timer arm for the purpose of varying the moment of ignition and the rim of the housing providing a smooth glass edge for easy sliding engagement with a suitable supporting bearing.

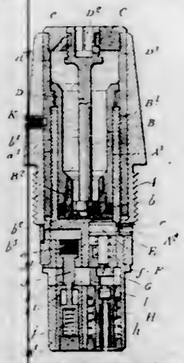
1,472,940. DIFFERENTIAL STEERING GEAR. HARRY B. ROSS, Benton Harbor, Mich., assignor to The Ross Carrier Company, Benton Harbor, Mich., a Corporation of Michigan. Filed Oct. 6, 1921. Serial No. 505,747. 6 Claims. (Cl. 280—96.)



1. In a steering-mechanism of the character described, the combination of a pair of pivotally-mounted steering-knuckles, a vehicle-wheel revoluble on each of said knuckles, a pair of bars, means connecting each of said bars to the corresponding steering-knuckle, means to turn said bars simultaneously about a common center, and means to shift said bars simultaneously lengthwise with reference to one another.

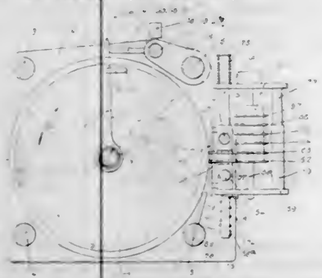
5. In a steering-mechanism of the character described, the combination of an oscillatory slotted gear, means to oscillate said gear to effect the steering operations, a pair of parallel notched bars slidable in the slot of and oscillatory with said gear, a dog in the notch of each bar having a stationary pivotal mounting eccentric to the axis of said gear, a pair of pivotally-mounted steering-knuckles, a vehicle-wheel revoluble on each of said knuckles, and means connecting each of said bars to the corresponding steering-knuckle, whereby during the turning movement of said bars they are simultaneously shifted lengthwise relative to one another in the same plane.

1,472,941. ADJUSTABLE-ACTION FUSE FOR PROJECTILES. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Jan. 4, 1922. Serial No. 526,985. 15 Claims. (Cl. 102—37.)



6. In a shell fuse, a cap-bearing plunger, a striker, a radially movable barrier interposed between said plunger and striker, means normally locking said barrier against radial movement, a combustible compound normally holding said locking means in locking position, means for igniting said compound when the shell is fired, a liquid-receiving chamber provided with a port leading to the atmosphere, a piston in operative relation with said striker and normally closing said port, means for supplying a predetermined amount of liquid to said chamber, a shoulder on said barrier engaged by said striker when the latter is moved by inertia of the liquid in said chamber on firing the shell to open said port, and means shifting said piston out of engagement with said barrier when the liquid is exhausted from said chamber.

1,472,942. CALCULATING MACHINE. AUGUSTIN SEGUIN, Paris, France. Filed Oct. 5, 1922. Serial No. 592,477. 10 Claims. (Cl. 235—80.)



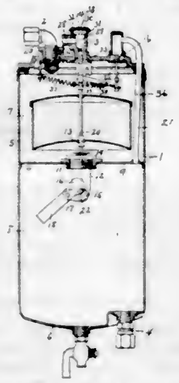
1. A calculating machine comprising in combination means for inscribing a first factor, elements connected with said means for representing the successive terms of this first factor inverted, means for inscribing a second factor, elements connected with said means for representing the successive terms of this second factor in normal order, means for successively bringing each element representing the terms of the first factor inverted into contact with each of the elements representing the terms of the second factor, calculating means for obtaining the product of two terms when the elements representing the same are in contact, a totalizer, and means connected with said calculating means and adapted to register upon said totalizer, and according to its order, the sum of these products of two term for each of the successive positions of the elements representing the terms of the first factor inverted relative to the elements representing the second factor.

1,472,943. VIOLIN FINGER BOARD. ARLING SHAFFER, Chicago, Ill. Filed May 25, 1921. Serial No. 472,516. 2 Claims. (Cl. 84—314.)



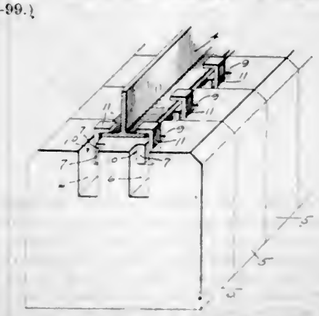
2. In a stringed musical instrument played with a bow, a finger-board provided with transverse grooves the edges of which merge one into the other and visibly form and locate the tone intervals on the scale of the finger-board.

1,472,944. FUEL-FEEDING DEVICE. WILLIAM SPARKS, Jackson, Mich., assignor, by mesne assignments, to Stewart-Warner Speedometer Corporation, Richmond, Va., a Corporation of Virginia. Filed Apr. 9, 1921. Serial No. 460,118. 6 Claims. (Cl. 158—36.)



1. In a fuel feeding device, a vacuum tank, a suction connection thereto for producing a partial vacuum therein, a valve for controlling the suction port, means within the tank for operating said valve, the suction connection having an atmosphere vent anterior to the suction port and a valve controlling said atmosphere vent adapted to be opened by pressure in the suction connection, said valve being free from any connection with the suction controlling valve or its operating means.

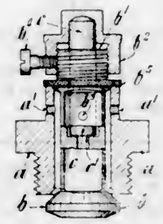
1,472,945. FURNACE ARCH. CLARENCE A. STRACHOTA, Minneapolis, Minn., assignor to Liptak Fire-Brick Arch Company, a Corporation of Minnesota. Filed Nov. 22, 1922. Serial No. 602,599. 6 Claims. (Cl. 110—99.)



1. The combination with a flanged beam and a block structure in which said blocks are formed with pockets having undercut ledges forming contracted throats, of

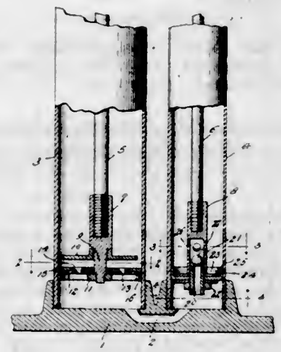
block hangers arranged in opposing pairs and having outer flanges slidable on the beam flange and having inner flanges slidable under the undercut ledges of the blocks.

1,472,946. AUTOMATIC AIR-INLET VALVE FOR LOW-PRESSURE STEAM-HEATING APPARATUS AND THE LIKE. FRANK TAYLOR and HIRAM GRIMSHAW TAYLOR, Radcliffe, England. Filed May 28, 1923. Serial No. 642,062. 1 Claim. (Cl. 236—61.)



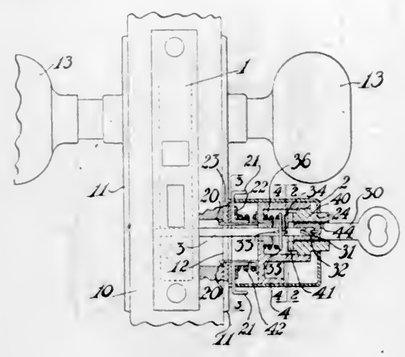
In air inlet valves of the kind referred to, a main mechanical valve with hollow stem and having perforations for the egress of air, a screwed cap for enclosing the top of the stem the exterior of which is screw-threaded, a thermal valve within said stem in the form of a plain cylindrical piece of material capable of expanding and contracting longitudinally under changes of temperature, the upper end of the thermal valve tightly fitting the said cap and adapted to be adjusted relatively to one of the holes in the main valve by rotating the said cap, a set screw for fixing the cap in fixed relation to the main valve stem, a washer upon the said screw-threaded part of the main valve stem and adjustable thereon, and an outer valve casing having air inlet holes and upon the upper edge of which casing the said washer rests when the main valve is open, as set forth.

1,472,947. VALVED PISTON. LEE THARP, Burlington, Iowa. Filed July 31, 1922. Serial No. 578,620. 1 Claim. (Cl. 103—225.)



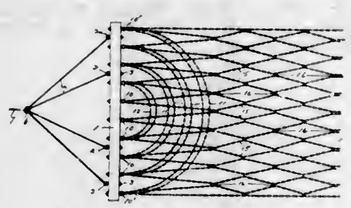
A valve unit comprising a body adapted for connection to a rod and having a stem, a plate fixed to said stem, an apertured plate movable on the stem, an apertured flexible layer secured on the apertured plate, and means retaining the apertured plate and the flexible layer on the stem; the said apertured plate having struck-up portions about its apertures, and said struck-up portions serving to attach the flexible plate.

1,472,948. SAFETY ATTACHMENT FOR LOCKS. ISAAC A. TREIMAN, Seattle, Wash. Filed July 30, 1921. Serial No. 488,565. 7 Claims. (Cl. 70—8.)



1. A safety attachment for locks including in combination a casing adapted to be secured upon a lock and having holes for the reception of a locking key, a key adapted to be received in the lock and projecting through said holes in the casing, and axially movable therein, said key and the casing having means interengageable by axial movement to lock said parts relative to each other, and means yieldable axially of the key for maintaining said parts in locked relation.

1,472,949. EARTH DRAG. ELMER A. TUCKER, Bremerton, Wash. Filed May 10, 1922. Serial No. 559,947. 3 Claims. (Cl. 55—3.)



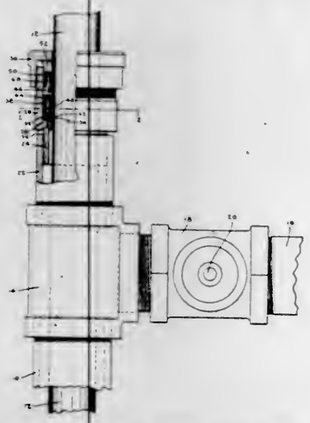
1. An earth drag, consisting of a transverse beam, a plurality of chains festooned rearwardly from said beam, and a plurality of chains superposed upon said chain festoons and extending rearwardly from said beam.

1,472,950. [WITHDRAWN.]

1,472,951. PLASTIC COMPOSITION AND METHOD FOR MAKING THE SAME. WILLIAM VANDYKE WATSON, San Diego, Calif., assignor of one-half to San Diego Consolidated Gas and Electric Company, San Diego, Calif., a Corporation of California. Filed Dec. 27, 1921. Serial No. 525,142. 10 Claims. (Cl. 106—32.)

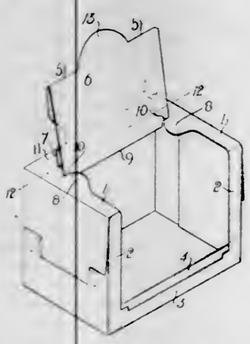
1. A plastic composition, comprising refuse sponge from gas purifiers, sand, coal gas tar, and lamp black.

1,472,952. OIL-SAVING DEVICE FOR OIL WELLS. OLOF B. ANDERSON, Marquette, Mich., assignor to E. J. Longyear Company, Minneapolis, Minn., a Corporation. Filed Feb. 13, 1922. Serial No. 536,117. 1 Claim. (Cl. 286—27.)



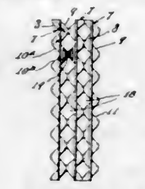
An oil saving device for oil wells comprising a jacket adapted to be secured to the upper end of the well casing, said jacket having an internal shoulder provided with a perforation, a ring resting upon said shoulder and having a circumferential groove with which said perforation communicates, a reduced member connected with the upper end of said ring, a gasket extending over said reduced member and upon both sides thereof, said reduced member containing a lateral perforation and the body of said ring containing a perforation leading from said circumferential groove to the outside of said reduced member, and means for restraining upward movement of said gasket.

1,472,953. DISPLAY BOX. WILLIAM BAMBER, Sutton, England. Filed Aug. 7, 1922. Serial No. 580,154. 8 Claims. (Cl. 206—44.)



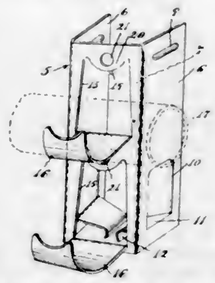
1. The combination, in a box, of a body portion, a hinged flap divided from the said body portion by a cut which follows a line of irregular form rendering the main body of the flap narrower than the width of the box, a small intermediate portion narrower still, and the extreme front and back sections of the flap of a width between the last two mentioned widths, a crease in the said flap whereby the folding front section of the flap will fit into the back section of the space from which it is cut and the intermediate portion will fix it in position.

1,472,954. RADIATOR. EMIL BEHRINGER, Brooklyn, N. Y. Filed Mar. 18, 1920. Serial No. 366,969. 3 Claims. (Cl. 257—130.)



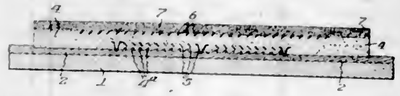
1. In a radiator, a plurality of radiator sections, each section comprising two metal sheets, each sheet having formed thereon a series of corrugations of trapezoidal prismatic form having heads formed by depressed portions of the corrugations.

1,472,955. RADIATOR-PIPE HANGER. EMIL BEHRINGER, Brooklyn, N. Y. Filed June 28, 1922. Serial No. 571,392. 6 Claims. (Cl. 248—34.)



1. In a pipe hanger, a hanger section comprising side members and an intermediate body member; the side members having slots near the upper ends thereof and connecting members near the lower ends thereof; the connecting members being adapted for engaging the slots of side members of an adjacent hanger section; the connecting members when engaged in said slots retaining the hanger sections in operative longitudinally connected relation.

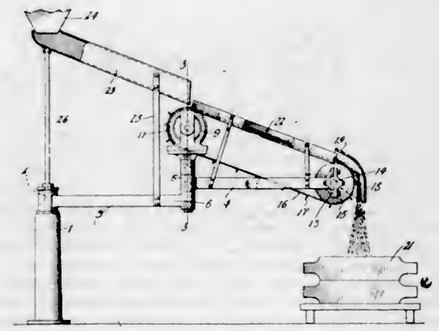
1,472,956. BUILDING CONSTRUCTION. EDWARD N. BIEGLER, Chicago, Ill. Filed Dec. 12, 1921. Serial No. 521,623. 5 Claims. (Cl. 72—18.)



5. A structural article of the sort described comprising a sheet of coherent material having reinforcing elements embedded therein adjacent its rear surface, said sheet having a plurality of voids therein extending inwardly from its rear surface behind the reinforcing elements and in association therewith, said voids forming locking means for reception of plastic material into the vicinity of the reinforcing elements, whereby to anchor the article in place.

1,472,957. MOLD-MATERIAL-PROJECTING MACHINE. SHERWOOD C. BLISS, Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill., a Corporation of New Jersey. Filed June 15, 1920. Serial No. 389,125. 5 Claims. (Cl. 22—36.)

1. A machine of the character described comprising a substantially-horizontal conveyor having one end pivotally mounted and its other end free, means for actuating said conveyor, and a deflector arranged adjacent to the

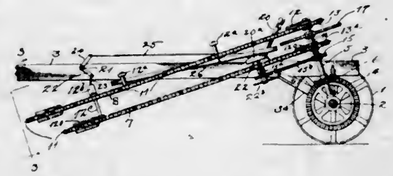


free end of said conveyor and cooperating with said conveyor to compact the mold material into wads prior to the discharge thereof.

1,472,958. PROCESS FOR THE BLEACHING OF YARN WOUND IN COMPACT FORM. JOHN BRANDWOOD, THOMAS BRANDWOOD, and JOSEPH BRANDWOOD, Elton, Bury, England. Filed Mar. 25, 1922. Serial No. 546,813. 2 Claims. (Cl. 8—2.)

1. Process for the bleaching of cotton yarns on the beam, cheese or other compact wound form, said process consisting in immersing the yarn packages in the dry state, in a hypochlorite bleaching liquor, and forcing the said liquor through the yarn packages under pressure, with subsequent washing off and drying.

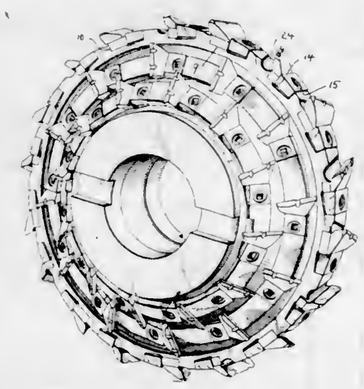
1,472,959. BEET TOPPER. JOHN L. BYRNE and FRED V. SCHNEIDER, Denver, Colo. Filed Aug. 10, 1921. Serial No. 491,185. 3 Claims. (Cl. 55—108.)



1. In beet harvesters or the like, the combination of means for conveying the body of the beet, means for conveying the upstanding leaves of the beet and guiding means positioned between the said two conveying means and adapted to press upon the top of the body of the beets, said guiding means having a sharp edge adapted to cut away leaf stalks which lie upon the top of the body of the beet.

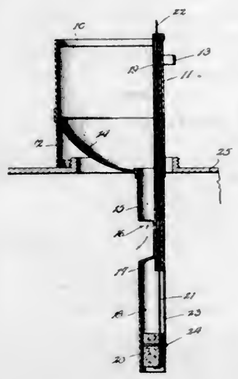
2. In beet harvesters or the like, the combination of a pair of endless conveyers having parallel juxtaposed stretches adapted to hold beet tops or the like between them and convey the plants with their roots depending; cutting means disposed beneath said conveyers in position to sever the tops carried by the conveyer from the roots; and spaced guides converging in the direction of travel of said conveyer stretches, and arranged obliquely with respect to the plane of said conveyers, the forward ends of said guides being disposed above the conveyers and the rearward ends being disposed beneath said conveyers and above the cutting means.

1,472,960. DISK CUTTER HAVING STAGGERED SERIES OF SIDE TEETH. GEORGE W. CONKLIN, Shelton, Conn., assignor to The O. K. Tool Company, Shelton, Conn., a Corporation of Connecticut. Filed Oct. 28, 1922. Serial No. 597,636. 12 Claims. (Cl. 29—105.)



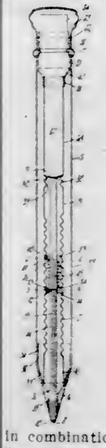
1. A rotary metal-cutter of the inserted-tooth type comprising a base in the nature of an annulus; and a pluraility of series of spaced cutting-bits, one of said series being arranged on the periphery of said base and the remaining series being arranged on the side-faces of said base.

1,472,961. FUNNEL. WILLIAM R. DEAN, Fort Pierre, S. Dak. Filed May 2, 1922. Serial No. 557,941. 2 Claims. (Cl. 226—32.)



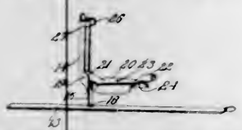
1. In a funnel, the combination of a bowl having a flat back wall and provided with a reduced discharge pipe of uniform diameter leading from the bowl at one side thereof adjacent said wall, the discharge pipe being cut away at one side to provide a discharge opening, a partition in the discharge pipe at the lower end of said opening defining a float chamber at the lower end portion of the pipe, a tube mounted against said back wall to extend downwardly within the discharge pipe through said partition into said float chamber, a float mounted within the chamber, and a rod extending from the float upwardly within said tube.

1,472,962. PENCIL. WILLIAM P. DE WITT, Somerville, Mass., assignor to De Witt-La France Co., Cambridge, Mass., a Corporation of Massachusetts. Filed Apr. 19, 1920. Serial No. 374,848. 12 Claims. (Cl. 120—18.)



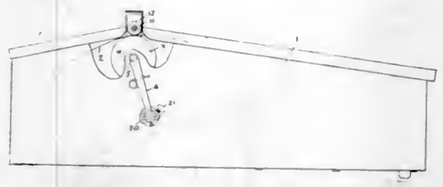
3. A pencil having, in combination, an outer casing, a head rotatably mounted on the rear end of said casing, a stationary guide tube within said casing, a carrier tube for leads slidable in said guide tube, a push-rod slidable in said carrier tube, a rotary propeller tube extending longitudinally within said casing and provided with an interior screw thread, a collar fast to said carrier tube and slidably and non-rotatably mounted upon said guide tube and having screw-threaded engagement with said interior screw thread, another collar fastened to said push-rod and slidably and non-rotatably mounted upon said guide tube and having screw-threaded engagement with said interior screw thread, a spring interposed between said collars, and a connecting member extending through said collars and longitudinally of said guide tube with a head at each end thereof adapted to engage the front face of one of said collars and the rear face of the other of said collars respectively and limiting the distance to which said collars can be moved apart while allowing them to be moved toward each other.

1,472,963. LEVER-FILLER FOUNTAIN PEN. WILLIAM P. DE WITT, Somerville, Mass., assignor to De Witt-La France Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Jan. 6, 1922. Serial No. 527,321. 2 Claims. (Cl. 120—46.)



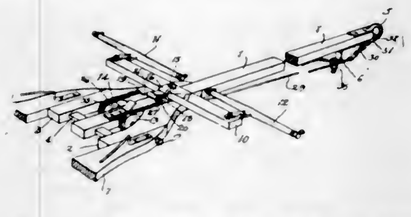
1. A fountain pen having, in combination, a casing, a sack of flexible material adapted to contain liquid and enclosed within said casing, open at one end thereof and closed at the opposite end, a presser located within said casing and arranged to bear against said sack, a lever U-shaped in cross section pivotally connected to said presser and normally positioned in a slot provided in the wall of said casing and a plate rigidly positioned in said casing, the opposite ends of said plate being U-shaped in cross section, one U-shaped end of said plate projecting into a U-shaped portion of said lever to which it is pivotally connected, and a pair of oppositely disposed ears on the opposite end of said U-shaped lever adapted to engage opposite sides of the end of said plate opposite to that at which said lever is pivoted thereto, whereby said lever is held detachably engaged to said plate in said normal position.

1,472,964. ROLL FEED DEVICE. ANDREW I. DONNELL and HENRY F. WRUCK, San Francisco, Calif. Filed Mar. 21, 1922. Serial No. 545,527. 4 Claims. (Cl. 271—24.)



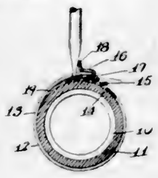
1. A feel device comprising co-acting rollers between which material to be fed is engaged and advanced, spring means yieldingly moving said rollers into contact with one another, one of said rollers having a portion of its periphery cut away so as to avoid contact with the material during a part of every revolution of said roller, said rollers remaining in substantial contact with one another at all times.

1,472,965. WAGON HITCH. ROBERT CLEMENT DUGAN, Milden, Saskatchewan, Canada. Filed Mar. 3, 1922. Serial No. 540,854. 4 Claims. (Cl. 278—4.)



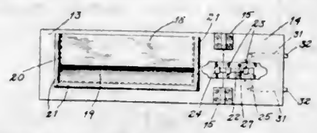
1. The combination with a wagon pole and a double tree of a pair of pulleys carried by the rear part of the pole, a clevis connected to the double tree, a rod secured in the clevis to extend transversely of the pole, a pair of parallel flexible connections attached to the ends of the rod and passing rearwardly around the pulleys and then forwardly at the underside of the tongue, a bar connecting the ends of the chains and maintaining the same in parallel relation, a draft rod passing forwardly from an intermediate portion of the bar and located underneath the tongue and a clevis attached to the forward end of the bar and adapted to be anchored to the tongue or to a forwardly positioned double tree.

1,472,966. ADJUSTABLE BAND. KNUT E. ENGLUND, Brooklyn, N. Y., assignor to Robert H. Gay, New York, N. Y. Filed Aug. 5, 1922. Serial No. 579,906. 12 Claims. (Cl. 24—19.)



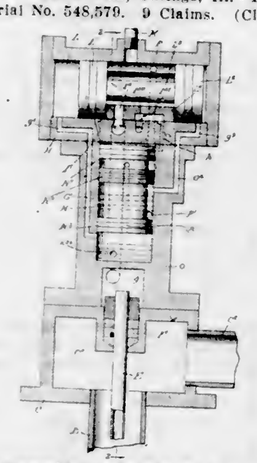
1. A unitary sheet metal band of the class described, one end portion of which is provided with a plurality of spaced projecting elements and the other end portion of the band being provided at its end with an inwardly projecting lip formed from the material of said band and adapted to pass over the projecting elements on the other end portion of the band, and to engage one of said elements for securing said end portions together.

1,472,967. VENTILATOR. GEORGE ENKLER, Brooklyn, N. Y. Filed Nov. 16, 1921. Serial No. 515,462. 2 Claims. (Cl. 98—31.)



1. In combination with a window ventilator having a pair of panels hinged to each other, means for securing the same in a window casing comprising a pair of rods slidably mounted on one of said panels, a slide bolt on the latter panel, a yoke member on the other panel aligned with the slide bolt and adapted to receive said bolt, said slide bolt when engaging the yoke being adapted to retain both ventilator panels in alignment, and means for extending the slide rods beyond the edge of the panel when locking said slide bolt in the yoke.

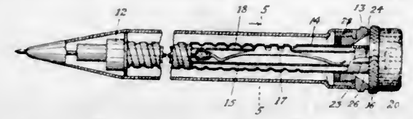
1,472,968. COMPRESSED-AIR WATER-ELEVATING PUMP. WILLIAM B. ERB, Chicago, Ill. Filed Apr. 1, 1922. Serial No. 548,579. 9 Claims. (Cl. 103—247.)



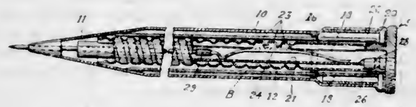
1. In a compressed air water elevating device, in combination with a compressed air pipe, a downwardly open chamber to which the pipe leads, adapted to be submerged in the water and to be filled from below; an outer chamber and upwardly extending conduit therefrom enclosing said submerged chamber and compressed air pipe; said outer conduit having its upper end positioned for discharging the water elevated by the device; a primary piston valve device and a cylinder in which it reciprocates arranged for connection with a source of compressed air, and a secondary piston valve device for controlling the air connections of the primary valve device, the latter having ports and air passages for admitting compressed air to the first mentioned air pipe for forcing the water downward out of the first mentioned chamber; the ports of said primary device being positioned with respect to the stroke of the piston valve therein to cause imprisonment for air cushioning of the piston valve at the ends of its strokes and for starting it on its reverse stroke, the passages from said ports leading to the chamber of the second mentioned piston valve device.

1,472,969. PENCIL. HOWARD L. FISCHER, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed Sept. 17, 1920. Serial No. 410,879. 7 Claims. (Cl. 120—18.)

1. A mechanical pencil comprising a casing, sectional lead propelling means positioned in said casing in a manner to provide a space around said propelling means for extra leads, said propelling means constituting a threaded member, a lead pusher adapted to cooperate with the threads of said threaded member and a slotted operating member adapted to carry said lead pusher, a closure for the rear end of said space, an operating member forming one of the sections of said propelling means, and a lock in said closure adapted to lock said operating member in said pencil.

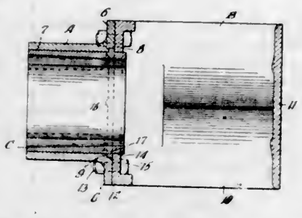


1,472,970. PENCIL. HOWARD L. FISCHER, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed Sept. 17, 1920. Serial No. 410,880. 5 Claims. (Cl. 120—18.)



1. A pencil comprising a casing, having a forward conical end, a tubular threaded member adapted to engage the inner surface of the conical end, means adapted to rigidly hold said threaded member in said barrel and space it from said barrel in a manner to form a space for extra marking leads thereabout, a closure cap for said magazine space to the rear of said barrel and a removable rotatable operating member comprising a slotted tube and a lead pusher to move a marking lead into writing position when said operating member is rotated.

1,472,971. DETACHABLE LINING FOR DRAFT-GEAR FRICTION SHELLS. WILLIAM A. GEIGER, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Feb. 9, 1923. Serial No. 617,962. 9 Claims. (Cl. 213—31.)

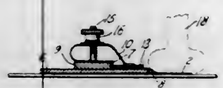


1. In a shock absorbing mechanism, the combination with a friction shell; of a spring cage detachably connected thereto; and a detachable lining for said friction shell, said lining and friction shell having inter-engaging means thereon for preventing relative longitudinal movement of the lining and friction shell in one direction; and means on said spring cage engaging said lining to prevent relative longitudinal movement of the shell and lining in the opposite direction, when the shell and spring cage are held in assembled relation.

1,472,972. CLEANSING COMPOSITION. WILLIAM T. GILLETT, Tillamook, Oreg. Filed Apr. 17, 1920. Serial No. 374,730. 1 Claim. (Cl. 87—5.)

A cleansing composition consisting of a soft paste-like mixture of sand 66%, water 18%, soap 14%, and pine tar 2%.

1,472,973. METHOD AND MEANS FOR MAKING SHOW CARDS AND THE LIKE. WALTON C. GRAHAM, and JULIUS F. RASMUSSEN, Denver, Colo. Filed Apr. 11, 1922. Serial No. 551,739. 11 Claims. (Cl. 40—142.)

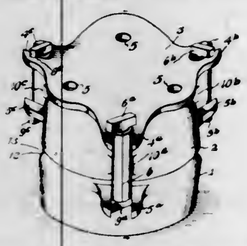


9. As a new article of manufacture, a character member adapted to be assembled with other similar character-members into a word or other combination of characters, and consisting of a gummed body portion and a detachable extension at an end of said portion, adapted for end-to-end engagement with a corresponding extension of the body portion on an adjoining character-member.

1,472,974. METHOD OF TREATING FRUIT TO BE DRIED. ANTHONY GRECO, San Jose, Calif. Filed Aug. 28, 1922. Serial No. 584,882. 1 Claim. (Cl. 99—5.)

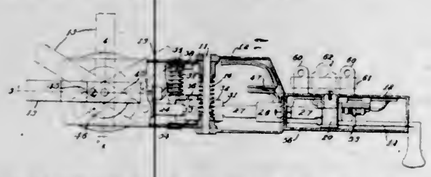
The method of drying fresh fruit which comprises halving the fruit and removing the stone therefrom, subjecting the cut surface of the fruit to the action of a saline material, then filling the cup cavity of the saline treated fruit with saccharine material, bleaching the fruit, and then exposing the same to the action of the sun and atmosphere for drying purposes.

1,472,975. MOLDING FLASK. LEON S. GREENBERG, Newark, N. J. Filed Feb. 2, 1923. Serial No. 616,556. 4 Claims. (Cl. 22—153.)



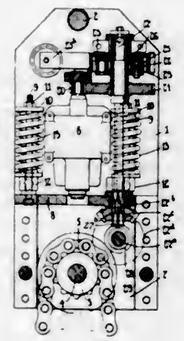
1. In a molding flask of the character described, the combination of a bottom piece with upper portion thereof incurved, a middle piece with both lower and upper portions incurved, a top piece, all constructed so that when assembled the points of contact of the three pieces form cutting means to separate any overflowing substance from the mass contained within said pieces, and a plurality of locking pin means for locking said pieces together, as and for the purpose described.

1,472,976. TRAFFIC-SIGNALING DEVICE. DANIEL E. HALL, Bath, Me. Filed Aug. 11, 1922. Serial No. 581,137. 18 Claims. (Cl. 116—46.)



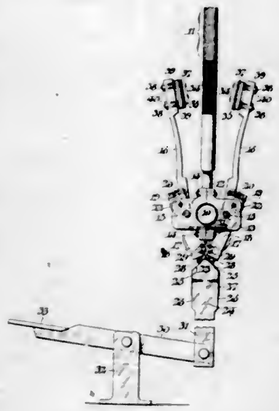
1. In combination, a support, a signal arm swingably carried by said support for movement in a vertical plane, a direction indicator carried by said arm, and means operable from said support for moving the said arm and indicator.

1,472,977. WORK-ROTATING GEAR ADAPTED FOR USE IN CONNECTION WITH HYDRAULIC PRESSES, STEAM HAMMERS, AND THE LIKE. WALTER HALLIWELL, Heaton Chapel, England, assignor to Sir W. G. Armstrong, Whitworth & Company, Limited, Newcastle-on-Tyne, England. Filed Dec. 27, 1919. Serial No. 347,843. 3 Claims. (Cl. 78—96.)



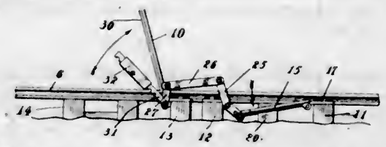
1. A work rotating gear adapted for use in conjunction with hydraulic presses, steam hammers and the like, comprising a main frame, means whereby the main frame may be suspended from a crane hook, an electric motor secured in fixed relationship with the main frame, a chain drum permanently associated with the frame, a chain sling mounted on the chain drum, motion transmitting means between the electric motor and the chain drum and shock absorbing devices between the electric motor and the lower end of the chain sling.

1,472,978. APPARATUS FOR DRYING HOSIERY. JAMES G. HANES, Winston-Salem, N. C. Filed Mar. 14, 1922. Serial No. 543,730. 8 Claims. (Cl. 223—17.)



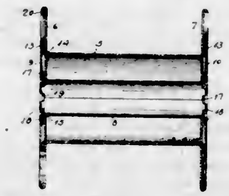
1. In a garment drier, a form over which the garment is stretched, means to clamp the garment against the form, foot operated means to move the clamping means to garment engaging position, and means adapted for manual operation to move the clamping means out of garment engaging position independently of the foot operated means.

1,472,979. GATE FOR RAILWAY CROSSINGS OR THE LIKE. WILLIAM HARRIS, Slocan City, British Columbia, Canada. Filed Oct. 20, 1921. Serial No. 509,070. 1 Claim. (Cl. 39—19.)



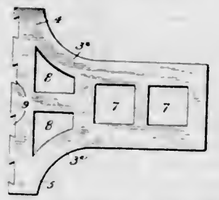
The herein described apparatus comprising a depressible platform, a shaft rotatably connected to the depressible platform for rotation upon the downward movement of said platform, a lever keyed to the shaft and connected with said platform, a second shaft rotatably mounted in spaced parallel relation with the first mentioned shaft, an arm extending from the second shaft, to the lever of the first mentioned shaft, a gate secured to the second mentioned shaft, an arm journaled upon the second mentioned shaft, a stop carried by said arm and engaging the first mentioned arm carried by the said shaft, and a weight adjustable upon said arm, substantially as and for the purposes set forth.

1,472,980. SPOOL. EBER J. HUBBARD, Berwyn, Ill. Filed Apr. 16, 1923. Serial No. 632,236. 7 Claims. (Cl. 242—123.)



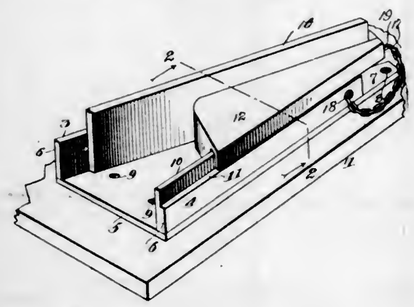
1. In a sheet metal spool, the combination of a cylindrical core, flange ends having openings, the ends of said core extending through said openings and being turned over against the outer faces of said flange ends, plates applied against the outer sides of said flange ends, said core ends being welded to said flange ends and plates, said flange ends and plates having axial openings, and a spindle tube extending axially through said core and through said openings and having its ends turned over against the outer faces of said plates.

1,472,981. BUILDING-WALL CONSTRUCTION. WILLIAM O. JOHNSTONE, North Tonawanda, N. Y. Filed Apr. 27, 1920. Serial No. 377,052. 2 Claims. (Cl. 72—21.)



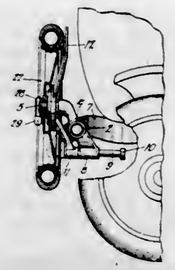
1. A furring tile comprising a relatively thick wall forming body portion for receiving the load and a relatively thin furring portion having transversely extending dead air spaces therein, the furring portion extending beyond the top and bottom of the load receiving body portion and connected thereto by inwardly curved portions to form a dead air space, in a built up construction, in front of those portions of the wall between the load receiving body portions.

1,472,982. BENCH CLAMP. ORLA EDWARD JUVINALL, Danville, Ill. Filed Dec. 1, 1922. Serial No. 604,364. 3 Claims. (Cl. 144—307.)



1. A bench clamp comprising a base plate, a jaw-forming wall and a track-forming wall carried by said base plate and converging toward one end thereof, a tapered gripping block resting upon said base plate between said walls and slidably fitting upon said track-forming wall and having an inner work-engaging side edge face extending parallel to the jaw-forming wall, the smaller end of said block being projectable between and beyond the converging ends of said walls, and a work-engaging flange extending transversely from the said end of said block and across the end of said jaw-forming wall to limit movement of the block in a work releasing direction.

1,472,983. CARRIER FOR SPARE WHEELS AND THE LIKE. FREDERICK K. LAWRENCE, Chicago, Ill., assignor, by direct and mesne assignments, to Self-Mounting Carrier Company, Wilmington, Del., a Corporation of Delaware. Filed June 27, 1921. Serial No. 480,583. 9 Claims. (Cl. 224—29.)

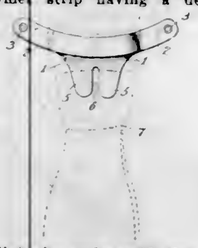


1. A lifting carrier for spare wheels and the like having a lifting lever for supporting the tire mounting, the lever being pivoted to the vehicle and being swingable about an axis perpendicular to the plane of the tire.

1,472,984. NECKTIE SUPPORT. MAX J. LEVEY, Sarasota, Fla. Filed Aug. 10, 1922. Serial No. 580,948. 1 Claim. (Cl. 24—56.)

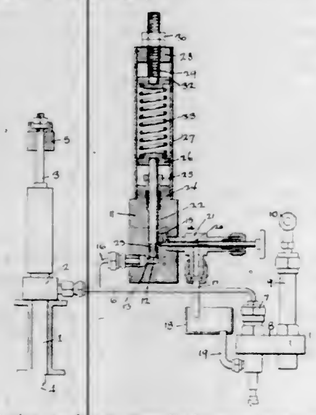
A necktie support comprising two strips of flexible material, connected adjacent their ends, one of said strips being relatively narrower than the other and outwardly bowed to form a space between the strips for the tie which is draped over the relatively narrow strip

and adapted for sliding and swinging movement thereon, and the wider strip having a depending slotted



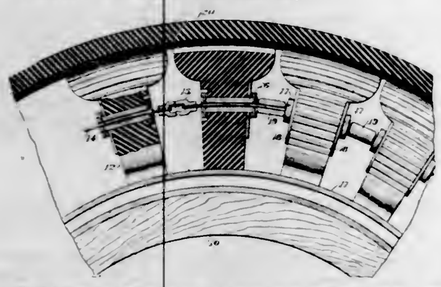
tongue intermediate its ends, said slot being normally covered by the tie but adapted to be exposed upon movement of the tie.

1,472,985. FLUID-PRESSURE REGULATOR. JOHN W. LORIMER, Oakland, Calif., assignor to Atlas Imperial Engine Company, Oakland, Calif., a Corporation of California. Filed Feb. 16, 1922. Serial No. 536,951. 8 Claims. (Cl. 137—53.)



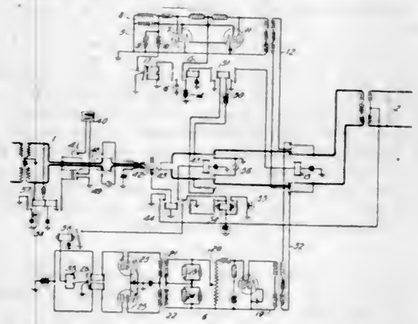
1. A device such as described comprising a casing having a chamber therein; a member slidably confined within said chamber; pressure packing in said chamber around said member; ports in said chamber for admitting a pressure and ports in said chamber controlled by said member for releasing said pressure, one of said ports having a control valve thereon.

1,472,986. CUSHION TIRE. JOSEPH E. MACKAY, San Francisco, Calif. Filed Nov. 20, 1922. Serial No. 602,170. 7 Claims. (Cl. 152—5.)



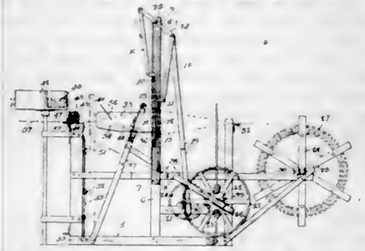
6. In combination with a tire rim, of a vehicle tire adapted to be mounted thereon, said tire comprising a casing, a plurality of circumferentially arranged resilient blocks mounted in the casing at spaced distances apart, a circular member passing through said blocks, means for decreasing the diameter of said member to force said blocks in firm engagement with the rim, and insulating means between said circular member and the blocks.

1,472,987. SIGNALING SYSTEM. PAUL B. MURPHY, Nyack, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 28, 1920. Serial No. 406,584. 24 Claims. (Cl. 250—6.)



1. A method of carrier wave transmission which comprises modulating a carrier wave by means of a plurality of successively recurring waves of different frequencies to constitute a single signal element.

1,472,988. WIRE-WEAVING MACHINE. GEORGE H. NORRIS and EDWARD A. ERNEST, Milwaukee, Wis., assignors to Wisconsin Iron & Wire Works, Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 22, 1918. Serial No. 263,725. 2 Claims. (Cl. 139—304.)

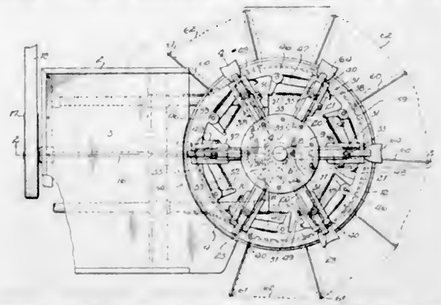


1. In a wire weaving machine having a reciprocating reed frame, the combination of a support including a substantially horizontally disposed bar over which the wire may be drawn, a shaft journaled in said support, a plurality of toothed wheels on said shaft directly above said bar, said shaft being so positioned and said wheels being of such diameter that their teeth project through the meshes of the wire and rotate close to said bar when said shaft is rotated to provide positive engagement with said wire meshes, a ratchet wheel on said shaft, a holding pawl associated with said ratchet, and a driving pawl mounted on said reed frame and adapted to advance said ratchet one step each time the reed frame reciprocates, for the purpose described.

1,472,989. LEATHER-GRADING MACHINE. DENNIS PARKS, St. Louis, Mo. Filed May 18, 1922. Serial No. 561,882. 14 Claims. (Cl. 83—92.)

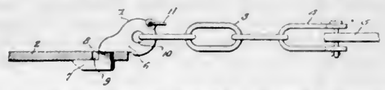
1. A grading machine comprising a clamping device movable in a fixed horizontal path and adapted to temporarily retain a piece of leather inserted therein and

to be functionally positioned by the thickness of the leather, and a plurality of stationary members positioned in the line of movement of said clamping device at different distances above said device, one or the



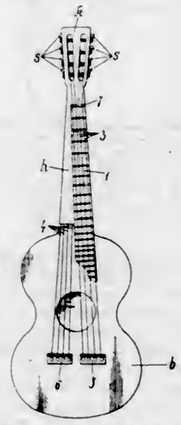
other of which is adapted to be engaged thereby to release the clamp according to the position of the latter as determined by the thickness of the leather clamped by it.

1,472,990. MINE-CAR COUPLER. FREDERICK L. PEART and HARRY M. JONES, Denver, Colo. Filed Apr. 7, 1922. Serial No. 550,450. 3 Claims. (Cl. 213—75.)



1. A coupler for mine cars and the like comprising a bar having an opening therein, and a cooperating coupling unit including a head and downward and rearward extension from the head adapted to engage and interlock within the opening of said bar.

1,472,991. GUITAR AND THE LIKE. JAROSLAV PŘIBYL, Prague, Czechoslovakia. Filed July 26, 1922. Serial No. 577,688. 2 Claims. (Cl. 84—263.)



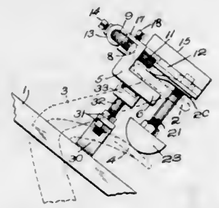
1. The combination with a guitar or an instrument having a belly, of a neck having two finger-boards, one at the top and the other at the underside, said finger-boards being arranged so that two sets of strings can be carried to an overlapping portion on the neck from tail pieces arranged in juxtaposition on the belly, one set above the upper finger-board and the other set below the lower finger-board, substantially as and for the purpose set forth.

1,472,992. BUILDER'S TOOL. HENRY R. ROEGLIN, Milwaukee, Wis., assignor of one-half to John Molnar, Milwaukee, Wis. Filed Feb. 6, 1922. Serial No. 534,636. 5 Claims. (Cl. 254—100.)



1. In a building tool, the combination of a pair of clamps having adjustable timber-holding and supporting jaws, and a lengthwise adjustable supporting connection between said clamps.

1,472,993. BRAKE AND GAS CONTROL FOR SELF-PROPELLED VEHICLES. LITFALLAH G. SABBAG, East Boston, Mass., and RAY ANTON, Dover, N. H.; said Sabbag assignor to said Anton. Filed Sept. 27, 1921. Serial No. 503,676. 13 Claims. (Cl. 74—81.)

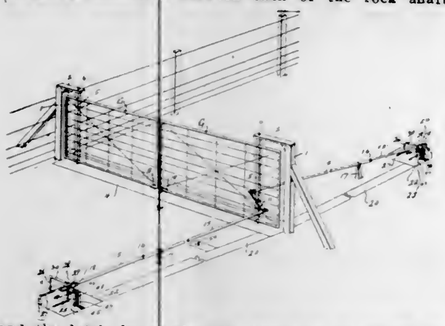


1. An automobile having a brake pedal and an accelerator and a member secured to the stem of the brake pedal and overlying both the brake pedal and the accelerator and having a part adapted to engage said accelerator, said member being adapted to be depressed by foot pressure.

1,472,994. GATE. JAMES SHAY, Middletown, Ohio. Filed June 12, 1922. Serial No. 567,789. 3 Claims. (Cl. 39—29.)

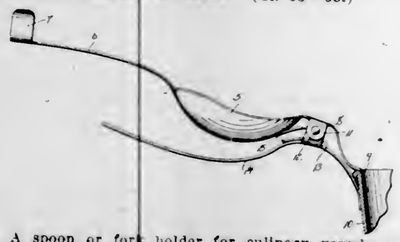
1. In combination with a closure member, a pair of rock arms positioned one upon each side of the closure member, an operative connection between each of the rock arms and the closure member for moving said closure member into either open or closed position, a latch for holding the closure member in closed position, a vertical disposed rock shaft positioned adjacent each of the rock arms, an outstanding plate carried by each of said shafts, an outstanding finger carried by each of the rock arms for contact with the plate to rock the

shaft upon movement of the arm in one direction and an operative connection between each of the rock shafts



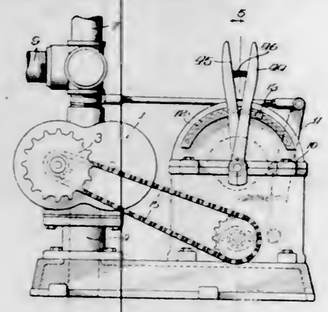
and the latch for moving the latch out of holding engagement with the closure member upon movement of one of the rock arms in one direction.

1,472,995. SPOON OR FORK HOLDER. JAMES SIMONE, Southington, Conn. Filed Apr. 6, 1923. Serial No. 630,193. 2 Claims. (Cl. 65—65.)



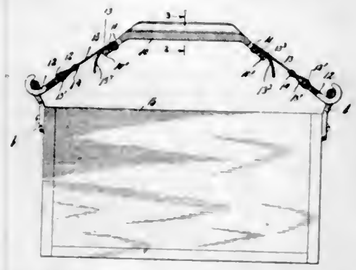
1. A spoon or fork holder for culinary vessels, comprising a spoon-like receptacle having an outwardly-extending arm provided with spring-fingers and with an arm extending inwardly from the tip and terminating in a downwardly offset-finger, a clamping-arm pivotally connected with said spoon-arm and a spring between the two members.

1,472,996. METER PUMP. CHARLES E. STAHL, Winthrop Harbor, Ill., assignor, by mesne assignments, to F. C. Austin Machinery Company, a Corporation of Illinois. Filed Mar. 17, 1919. Serial No. 283,174. 16 Claims. (Cl. 221—101.)



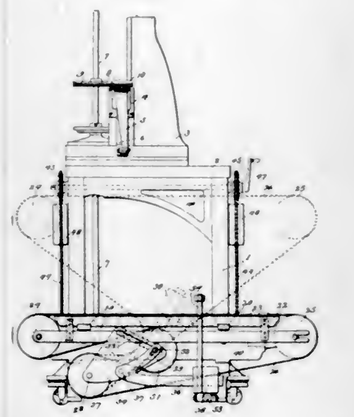
1. In a pumping apparatus the combination of a continuously operating pump, means for driving said pump, a valve to control the discharge from said pump, while the pump is operating, and mechanism operable manually to open the valve and automatically close said valve.

1,472,997. HANDLE FOR BATTERIES. HARRY W. STEVENSON, Port Chester, N. Y. Filed Dec. 23, 1921. Serial No. 524,344. 1 Claim. (Cl. 16—114.)



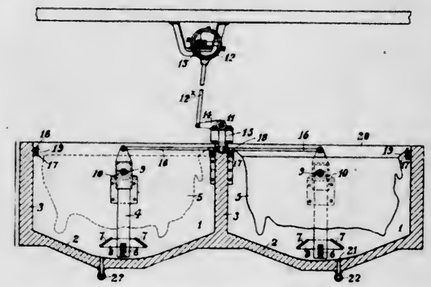
A removable handle for storage batteries having grasps, said handle having angular end extensions each provided with parallel cross slots, hooked members serving for engagement of said battery grasps and flexible means carrying said hooked members and adapted to be looped through said parallel slots of the angular extensions, so as to frictionally and adjustably engage the same.

1,472,998. FILLED-BAG-SEWING MACHINE. SAMUEL GEORGE TATE, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 2, 1918. Serial No. 256,619. 8 Claims. (Cl. 112—11.)



8. A filled bag sewing machine including in combination, a frame, a vertically adjustable open-sided conveyor support carried by said frame, means for adjusting said conveyor support vertically, a sewing head carried by said frame and overhanging said conveyor support, a conveyor movable over said conveyor support for conveying a bag past the sewing head, means for actuating said conveyor including an operating shaft, bearings for said shaft having a fixed position on the frame, and means carried by said shaft and engaging said conveyor for driving the same in any adjusted position of said conveyor support, a main driving shaft, a counter shaft operatively connected with said conveyor operating shaft, means for operating said sewing head from said counter shaft, a clutch interposed between said main and counter shafts, and manually operable means for controlling said clutch whereby said sewing head and conveyor will be simultaneously started or stopped.

1,472,999. APPARATUS FOR TREATING HIDES AND THE LIKE. BASIL HEBER TILSTON, Latchford Without, near Warrington, and THOMAS MELBOURNE, Warrington, England. Filed Oct. 2, 1918. Serial No. 256,561. 2 Claims. (Cl. 149—10.)



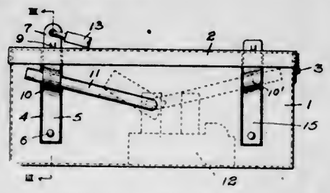
2. In an apparatus for treating hides or other goods in which the goods are held suspended in a pit or vat, a stirrer device therefor comprising arms mounted for swinging movement in said vat, a paddle carried by said arms, said paddle including faces arranged to be in substantially vertical planes when said swinging arms are perpendicular, supplementary paddles carried by said arms and set in an inclined position like a span roof, but spaced apart at their adjacent edges so as to lie above and one at each side of the plane of the vertical paddle.

1,476,000. TOOTHBRUSH. WAYNE LYNN WEATHERWAX, Oshkosh, Wis. Filed Apr. 20, 1921. Serial No. 462,784. 2 Claims. (Cl. 15—210.)



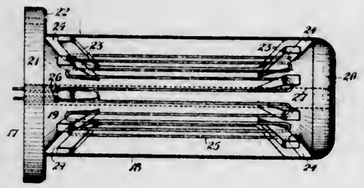
1. A tooth brush comprising a handle portion, a flexible brush portion, said brush portion having a recess in each end, and a pair of hook members mounted on said handle portion with the hooks facing toward each other, said hook members being spaced so that the distance between the shanks of said hooks is substantially equal to the length of said brush portion, said brush portion being positioned on said handle portion by distorting the brush portion sufficiently to permit said hooks to slip into said recesses.

1,473,001. LOCK FOR SWITCH SAFETY BOXES. BENJAMIN B. WHITE, Pittsburgh, Pa., assignor to Armstrong & White, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 1, 1921. Serial No. 481,825. 7 Claims. (Cl. 200—42.)



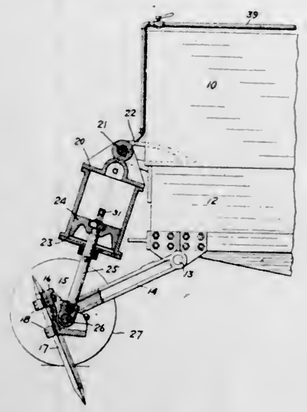
1. A switch box comprising a box body, a movable cover therefor, a resilient spring clip attached to said body, a switch operating lever, said clip being adapted to engage and fasten both said cover and said lever.

1,473,002. WATER HEATER. JACOB HENRY BECKMAN, Oakland, Calif. Filed Mar. 9, 1921. Serial No. 450,837. 11 Claims. (Cl. 219—63.)



2. A core for an electric heating element formed of dielectric material and comprising a substantially spool-shaped member around the cylindrical body portion of which, and at the opposite ends thereof, a plurality of radial wire supporting arms are formed.

1,473,003. SCARIFIER. EARL E. BEERY, Kennett Square, Pa., assignor to American Road Machinery Company, Inc., Kennett Square, Pa., a Corporation of Delaware. Filed Dec. 1, 1920. Serial No. 427,494. 9 Claims. (Cl. 262—11.)

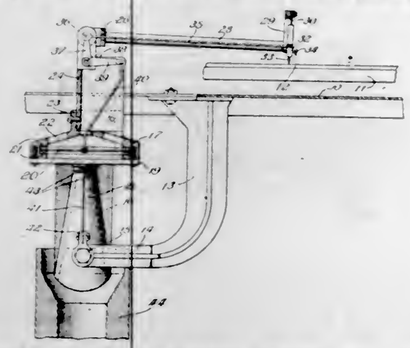


1. A device of the character described having drag bars, both pivoted at one end to permit the outer ends to be raised and lowered, gage wheels connected to the drag bars beyond the pivotal connections of said bars, a scarifying tool pivoted to the drag bars beyond their pivotal connections, a power cylinder, a piston in said cylinder, a piston rod connected to the piston and the tool, the arrangement being such that when the piston is actuated the drag bars are swung about their pivotal connections and the tool is moved about its pivotal connections to the drag bars, and stops for limiting the movement of the tool on the drag bars.

1,473,004. PHONOGRAPH. JOSEPH W. BISHOP, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 17, 1921. Serial No. 508,310. 11 Claims. (Cl. 274—26.)

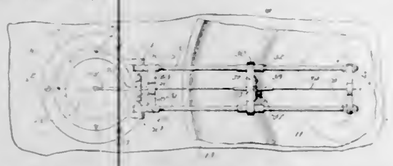
1. In a device of the class described, a sound box mounted to swing about a horizontal axis, a frame pivoted to said sound box, a needle support carried by said frame

and adapted to move along a radius of the record table, a record table adapted to support a record in the position to act upon a needle in said support, a diaphragm in said



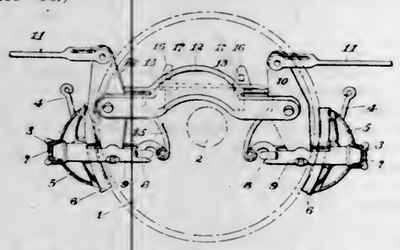
sound box, and means pivotally connected to the sound box for connecting said needle support with said diaphragm.

1,473,005. PHONOGRAPH. JOSEPH W. BISHOP, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 17, 1921. Serial No. 508,311. 10 Claims. (Cl. 274—26.)



1. In a device of the class described, a stationary sound box having a diaphragm therein, a rotatable record table, a needle adapted to travel along a radius of said table, and an operative connection between said needle and said diaphragm.

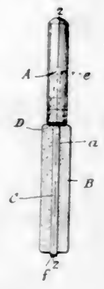
1,473,006. BRAKE MECHANISM. MINOT C. BLEST, Bellevue, Pa., assignor to Pressed Steel Car Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Nov. 29, 1922. Serial No. 603,931. 12 Claims. (Cl. 188—56.)



1. In a brake mechanism, a plurality of brake beams, a plurality of levers for operating said beams, a member connecting said levers, and means supported by said member for maintaining said beams level.

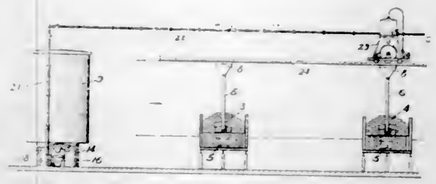
1,473,007. MANICURING TOOL. LUCIEN BOECHAT, Rittman, Ohio. Filed Oct. 18, 1922. Serial No. 595,223. 1 Claim. (Cl. 132—73.)

In a device of the character described, the combination with a handle, having a longitudinal cavity therein, an inwardly sloped thimble mounted in the lower end of said cavity, and bored longitudinally a limited distance, a card holder comprising a pair of opposite arms longitudinally disposed and adapted to reciprocate in said thimble a limited distance by manual pressure, said arms cut apart and adapted to spread apart automatically by their



resilience when drawn downwardly thru said thimble to predetermined limits, and to be drawn together when pushed upwardly a limited distance thru said thimble, and an abrasively coated sheet or card fitted to lie flatwise between said arms, removably, substantially as set forth.

1,473,008. RAW-MATERIAL CONVEYER FOR FEEDING GLASS FURNACES. WILBUR F. BROWN, Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 13, 1922. Serial No. 543,192. 9 Claims. (Cl. 49—63.)



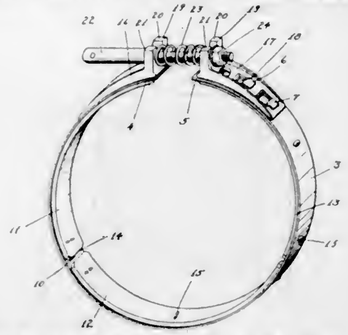
1. The method of feeding raw materials from a common source of supply to a plurality of glass melting furnaces, consisting in drawing the several materials by suction thorugh a conduit to the vicinity of any selected furnace, there mixing the materials together, and then delivering the mixed batch directly to the furnace.

2. An apparatus for conveying raw materials from the storage tanks to a plurality of glass melting furnaces, comprising a conduit extending from the storage tanks to the furnaces, means for feeding the materials from the tanks to the conduit, means for drawing the materials through the conduit by suction to any selected furnace, and means for there delivering the materials from the conduit to the furnace.

1,473,009. TRANSMISSION BAND. MURRAY L. BRUCE, Milan, Ind. Filed July 5, 1922. Serial No. 572,991. 1 Claim. (Cl. 188—249.)

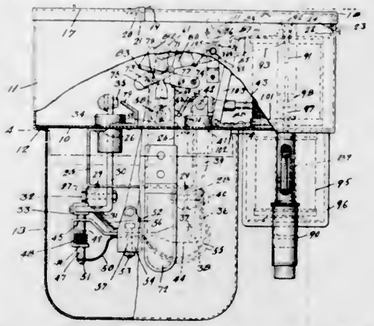
A transmission band of the class described comprising a single circular metallic band having substantially U shaped lugs struck outwardly therefrom adjacent the ends thereof, the lugs being turned upon the band and extending away from the respective ends of the band carrying said lugs, and ears detachably mounted on the ends of the band having slots adapted to accommodate the lugs, the ears in mounted positions having one of the

walls of each of the slots in engagement with a lug on the band, the walls of the slots in the ears engaging the



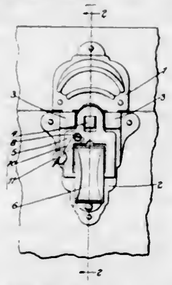
lugs being disposed farthest from the end of the band carrying said ear, said walls of the slots engaging the lugs at the places of joinder of the lugs and the band.

1,473,010. ELECTRIC SWITCH. GORDON CAMERON, Wollaston, Mass., assignor to Sears B. Condit, jr., Boston, Mass. Filed Feb. 27, 1918. Serial No. 219,379. 9 Claims. (Cl. 200—150.)



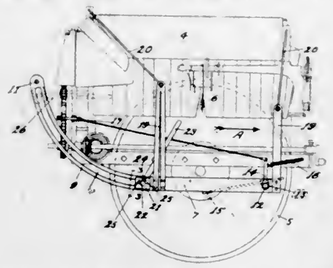
1. In an oil switch, an enclosing casing, an oil receptacle, means removably securing said receptacle to said casing, a cover for said casing, and locking means controlled by said cover removably to lock said oil receptacle to said casing adapted to release the receptacle for subsequent removal from the casing.

1,473,011. TRUNK SEAL. LEWIS W. CHRISTOPHEL, St. Louis, Mo. Filed June 18, 1921. Serial No. 478,670. 2 Claims. (Cl. 292—246.)



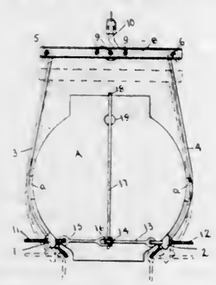
1. In a trunk having two parts movable to and from closed position, a lug attached to one of said parts of the trunk, a support attached to the other part of the trunk, a loop pivoted to said support and movable into and out of engagement with said lug, a projection arranged to extend through the loop, a seal supported by said projection in such position that the seal must be defaced before the loop can be moved out of engagement with the lug, and a device carried by said support preventing the loop from becoming disengaged from said lug.

1,473,012. SHOCKING ATTACHMENT FOR BINDERS. ARTHUR CHRISTOPHERSON, Oslo, Minn. Filed Apr. 12, 1921. Serial No. 460,824. 5 Claims. (Cl. 56—401.)



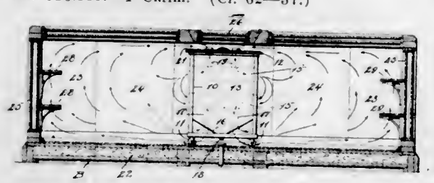
4. In combination with a binder, a frame adjacent the binding platform thereof, said frame having two horizontal main bars provided with upwardly curved and slotted extensions at their rear, blocks slidably mounted in said extensions, and a shaft mounted with its ends in said blocks, said shaft being adapted to receive and support the head ends of grain bundles delivered by the binder.

1,473,013. GRAPPLE. WINTHROP A. CLARK, Stamford, Conn., assignor of one-half to Frederick Morris Brown, Stamford, Conn. Filed June 16, 1921. Serial No. 478,014. 5 Claims. (Cl. 294—113.)



1. A device of the class described comprising opposed object engaging members, hoisting means connected to said members, a link connected to each member, and means operative only when said links are under tension for connecting said links together.

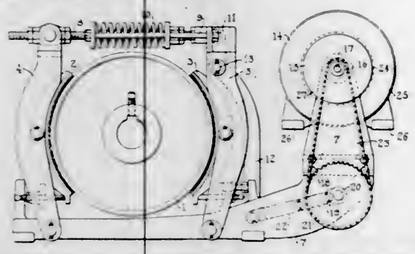
1,473,014. SHOWCASE REFRIGERATOR. ABRAHAM COHEN, St. Louis, Mo. Filed Nov. 18, 1921. Serial No. 516,119. 1 Claim. (Cl. 62—37.)



The portable refrigerating unit comprising a wheeled frame and a housing carried by said frame; said housing having upper and lower sets of horizontal tubes, a set of

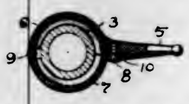
vertical tubes extending from the upper set of horizontal tubes to the exterior of the housing, the housing having a lid apertured to receive said set of vertical tubes, and a lower set of vertical tubes extending from the lower set of horizontal tubes through the bottom of said housing; said bottom being V-shaped and terminating in a slotted drainage mouth.

1,473,015. MOTOR DRIVING MECHANISM. JOHN S. COLDWELL, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed May 10, 1919. Serial No. 296,273. 28 Claims. (Cl. 188—171.)



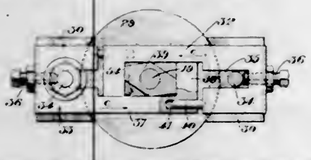
1. The combination with a power device having independently movable elements, said device being adapted to develop substantially continuous opposing forces between such elements, of a releasable clutch to connect one of said elements to a driven device and means controlled by movement of the other of said elements in either direction for effecting engagement of said clutch.

1,473,016. RESTAURANT STOOL AND HAT HOOK. GEORGE A. COOK, Cleveland, Ohio. Filed Nov. 10, 1921. Serial No. 514,211. 1 Claim. (Cl. 45—13.)



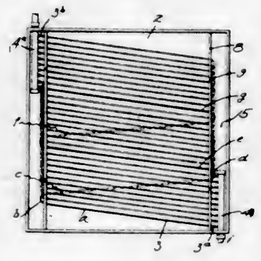
A hat hook for stools comprising a sectional ring shaped body, said sections being connected together at their rear portions, one of said sections having a flat straight recessed extension at its front portion terminating in an upwardly curved integral hook, the other section having a flat extension at its forward part seating in the recess of said first mentioned extension, and a locking screw passing through said extensions.

1,473,017. BICYCLE TRANSMISSION. OSCAR COOPERMAN, Palo Alto, Calif. Filed June 15, 1921. Serial No. 477,713. 5 Claims. (Cl. 74—53.)



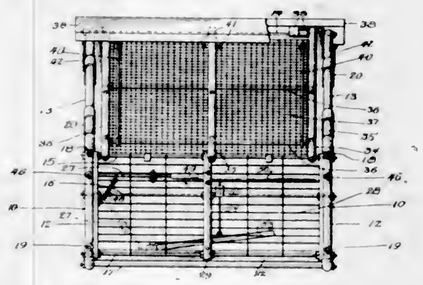
1. A clutch mechanism comprising a disc fixed upon a shaft to be driven, a pair of clutch jaws disposed on opposite sides of said disc to engage the circumference thereof, plates slidable relative to each other, one of said jaws being mounted on each of the plates, and a turnable cam rotatably supported between the plates in engagement therewith for moving the plates to simultaneously draw the jaws against the circumference of the disc and produce rotation of the disc with the jaws.

1,473,018. SOLAR HEATER. FREDERICK E. DANNER, Willows, Calif. Filed Sept. 3, 1921. Serial No. 498,243. 6 Claims. (Cl. 126—271.)



2. In a solar heater, a heating unit comprising a flat barrier, a plurality of conduits wound around said barrier in intimate contact with the front and rear surfaces thereof whereby to absorb heat directly from the sun's rays and by exchange from the barrier, and common inlet and discharge connections for said conduits.

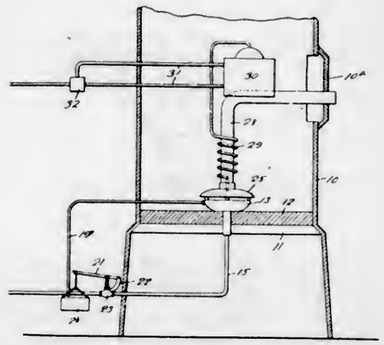
1,473,019. COMBINED CHICKEN COOP AND TRAP. ARTHUR DAWLEY, Attica, Ind., assignor to himself and C. D. Pierce, Copartners, doing business as Arthur Dawley, C. D. Pierce and Co., Attica, Ind. Filed Mar. 24, 1923. Serial No. 627,352. 3 Claims. (Cl. 119—19.)



1. In a trap structure, an animal compartment, having a door opening leading thereto, a swinging trap door for closing said opening, pivotally mounted on said structure, a spring actuated endwise movable door holding rod arranged to engage with said door to hold it in open position, a tube in which said rod is slidably guided, a trap springing treadle and a trigger pin connected to said treadle, and arranged, when in raised position, to enter registering holes in said tube and rod and engage with said door holding rod to thereby hold said rod in engagement with said door, but arranged to release said rod when the treadle is depressed.

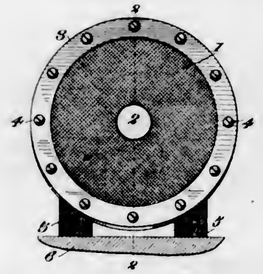
1,473,020. OIL BURNER AND HEATER. CHARLES B. DONALDSON, Cleveland, Ohio. Filed June 12, 1922. Serial No. 567,644. 3 Claims. (Cl. 158—92.)

3. In a device of the kind described, the combination with a suitable casing having an imperforate partition, of a bowl located upon said partition and having an oil supply pipe leading thereto and an overflow pipe leading therefrom, a cover supported upon and spaced above said bowl, an air supply pipe extending from the exterior of the case and having its lower end connected to the



cover, a steam generator supported upon said air pipe, a steam pipe leading from said steam generator and projected into the space between the bowl and cover.

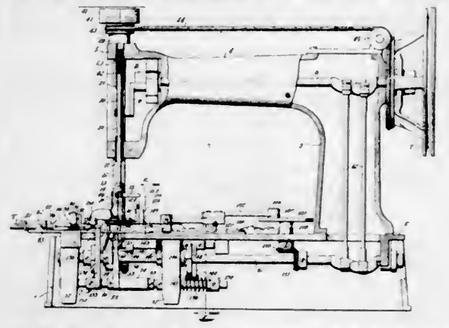
1,473,021. MEANS FOR PEELING FRUIT. ARTHUR L. DUNCAN, Oakland, Calif. Filed Oct. 14, 1922. Serial No. 594,553. 1 Claim. (Cl. 146—47.)



The means for gradually separating softened skin from previously treated fruit, the same comprising a relatively thin flexible elastic diaphragm provided with a perforation having a continuous unbroken edge and through which perforation the fruit is adapted to be forced whereby the aperture wall uniformly engages the surface of the fruit as the same passes therethrough, and an open frame peripherally engaging the diaphragm at a distance from the aperture wall for maintaining the diaphragm in fixed position and enabling the ready flexing of the diaphragm on the passing of the fruit through the aperture thereof.

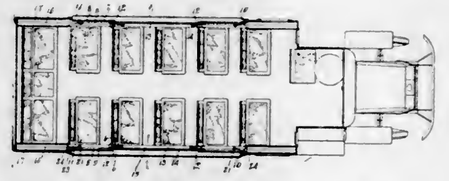
1,473,022. TAPE-THREADING MACHINE. GEORGE M. EAMES, Bridgeport, and JOHN C. RINGE, Stratford, Conn., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed July 23, 1921. Serial No. 486,957. 13 Claims. (Cl. 112—2.)

1. In a machine for threading short sections of tape into buttons, in combination, a threading-implement carrying bar, a plurality of hooked threading-implements carried by said bar, a button-holder adapted to sustain a button in position for entrance by said threading-implements, a reciprocating bar, means for reciprocating said bar, and a yielding connection between said bars normally causing movement of said bars in unison but permitting abnormal arrest of the implement-carrying bar during the continued movement of the reciprocating bar



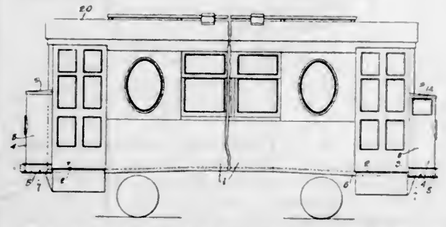
upon the occasion of an implement striking a button sustained by said button-holder.

1,473,023. VEHICLE BODY. THOMAS ELLIOTT, Cincinnati, Ohio, assignor to The Cincinnati Car Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 28, 1921. Serial No. 481,120. 4 Claims. (Cl. 296—47.)



4. A vehicle body having in its side wall an unobstructed open space, a pocket at each side of said space, a sash-rest at the bottom of said space provided with a single sash groove or way in its middle portion and of double width in its outer portions, such rest and the double width portions of the groove extending into said pockets, the double width grooves having shoulders near the junction with the single width portion, and sashes adapted to occupy the single width groove in edge to edge position and other sashes to overlap them and occupy positions in the double width portions of the groove, and all of said sashes being adapted to slide into said pockets, respectively, and spring means engageable with and disengageable from the remote edges of the middle sashes and arranged to force said sashes toward each other when engaged.

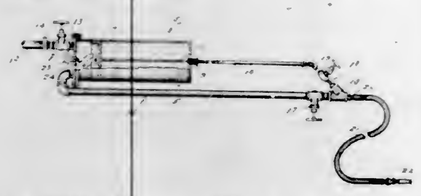
1,473,024. RAILWAY CAR. THOMAS ELLIOTT, Cincinnati, Ohio, assignor to The Cincinnati Car Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 20, 1922. Serial No. 537,833. 6 Claims. (Cl. 105—342.)



1. A car body having a floor and windows in the end spaced above said floor for front vision for the driver

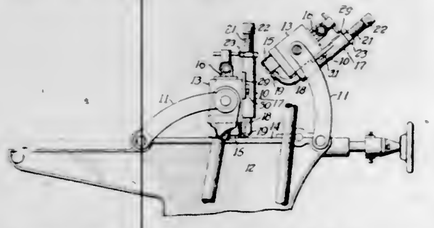
and a vestibule of height less than the height of the body, said vestibule having its top below said windows, and the front end of the body above the vestibule set back substantially the depth of the vestibule.

1,473,025. SPRAYER. CHARLES ERICKSON, Minneapolis, Minn. Filed May 31, 1921. Serial No. 473,586. 4 Claims. (Cl. 299—85.)



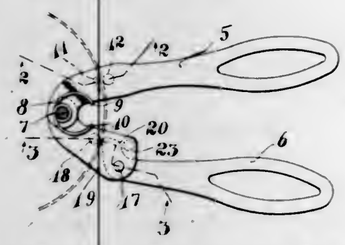
1. A spraying device comprising a cylinder, a piston working therein, a water supply pipe connected to deliver all of the flowing water into one end of said cylinder, a water discharge pipe extended from the same end of the cylinder, and a solution delivery tube extended from the other end of said cylinder and connected to said water discharge pipe, said piston having a rod working in said tube.

1,473,026. STAMPING DEVICE. JOHN ERTEL, Newberry, Pa., assignor to Armour Leather Company, Chicago, Ill., a Corporation of Illinois. Filed July 22, 1922. Serial No. 576,676. 9 Claims. (Cl. 101—3.)



1. In a cutting machine, a support for the material, a cutter movable toward and away from the support, and a stamping die movable with the cutter and shiftable at will relative thereto into an inoperative position.

1,473,027. CAN OPENER. CHARLES W. ERVIN, Los Angeles, Calif. Filed Feb. 23, 1922. Serial No. 538,598. 3 Claims. (Cl. 30—3.)



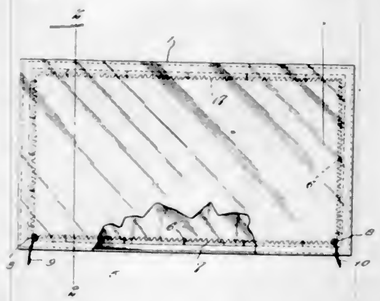
3. In a can opener, a cutting arm having cutting means on its underside, a gripping arm made in sections, one of the sections being pivotally connected to the cutting arm, the second of said sections being pivotally connected to the first-named section forming cam-like engaging means between the two sections, and a spring inserted between the arms for normally holding the arms spaced with the cutting means pointing in the direction of the cam-like engaging means and adapted to advance the gripping arm ahead of the cutting means after each contraction of the arms.

1,473,028. HANDLE. FRED D. FAHR, Perry, N. Y. Filed Feb. 9, 1922. Serial No. 535,389. 3 Claims. (Cl. 74—33.)



1. An extension handle for fuel and ignition control levers comprising a ball member having a pocket formed therein, a sleeve having its duct leading into the pocket formed on one side of said ball member, the duct in said sleeve being of smaller dimension than the pocket in said ball member, said sleeve being adapted to expand and slip over a handle and then contract in back of the handle to lock the handle in place in the pocket in said ball member, means provided in the surface of said ball members to receive the finger tips of the hand operator to permit a movement of the ball member with the handle to which it is attached by the finger tips.

1,473,029. CLEAR-VISION DEVICE. VICTOR T. FAUBERT, JOHN ANEKEE, and CARL L. YOUNG, Amarillo, Tex. Filed May 1, 1922. Serial No. 557,640. 2 Claims. (Cl. 20—40.5.)

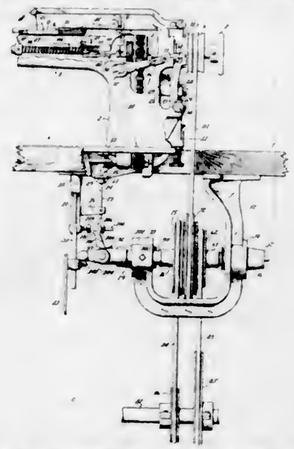


1. A clear vision panel or device comprising inner and outer walls spaced apart and connected together at the marginal edges, eye members embedded in the margins and forming the end marginal edges, and an electrically energizable heating element carried by the eye members and lying adjacent to the marginal edges thereof whereby moisture accumulating upon the walls may be dissipated.

1,473,030. VARIABLE-SPEED POWER TRANSMITTER FOR SEWING MACHINES. JOHN S. FINCH, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Dec. 29, 1919. Serial No. 348,010. 7 Claims. (Cl. 192—144.)

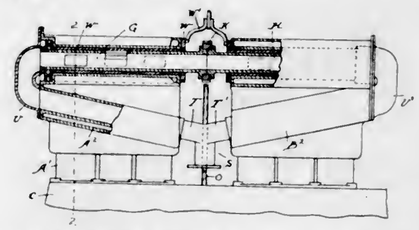
1. The combination with a sewing machine including a stop-motion device, automatic means for initiating a machine arresting action of said stop-motion device, and a manually controlled device for determining the time of effective action of said automatic means at any point in the operation of the machine, of a power-transmitter including a power-transmitting driven pulley, driving connections between said pulley and said sewing machine, relatively low and high speed driving pulleys adapted to be alternately placed in operative engagement with said

driven pulley, and operative connections with said manually controlled device for relatively shifting said driving and driven pulleys to drive the sewing machine from said



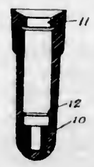
high speed pulley during the period of ineffectiveness of said automatic means and from said low speed pulley during the time that said automatic means is effective.

1,473,031. INTERNAL-COMBUSTION ENGINE. FRANCIS E. FOULKE, Philadelphia, Pa., assignor to Maximum Motors Co. Inc., New York, N. Y., a Corporation of New York. Filed Mar. 29, 1918. Serial No. 225,392. 13 Claims. (Cl. 123—59.)



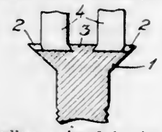
1. In an internal combustion engine, the combination with cylinder blocks, each comprising a plurality of cylinders and a rotary valve adapted to communicate with its respective cylinders, said valves communicating with each other, of a bifurcated induction conduit communicating with the opposite ends of said valves, and means intermediate said cylinder blocks for driving said rotary valves.

1,473,032. DUST CAP. ABRAHAM L. FREEDLANDER, Dayton, Ohio, assignor to The Dayton Rubber Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed Mar. 13, 1922. Serial No. 543,382. 5 Claims. (Cl. 152—12.)



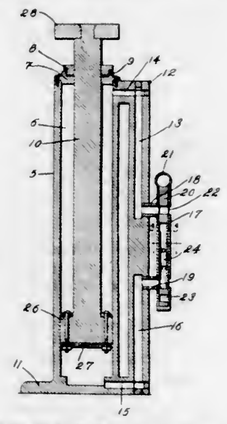
1. A rubber dust cap for pneumatic valve tubes comprising a hollow body with a sealing and gripping flange, said gripping flange being defined from the body of the dust cap by a slit extending outwardly from the bore of the dust cap toward its periphery, and a gripping body portion.

1,473,033. SCREW. VIKTOR EMANUEL GERZÉN, Svanobruk, Sweden. Filed Sept. 28, 1922. Serial No. 591,149. 3 Claims. (Cl. 85—45.)



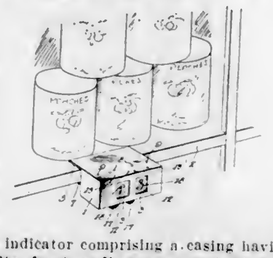
1. A screw including a head having opposed recesses extending radially inwards from the periphery and leaving a substantially central dove-tailed part between said recesses having its narrow section located at the bottom of the recess.

1,473,034. AIR JACK. JAMES S. GILDAY, Blaine, Wash. Filed Mar. 11, 1921. Serial No. 451,469. 1 Claim. (Cl. 138—9.)



In a fluid actuated jack, a cylindrical body portion said body portion having passageways extending longitudinally thereof and in communication with the upper and lower ends of the cylindrical body portion, a tubular valve casing in communication with the passageways, and having a hollow valve mounted therein, said hollow valve having openings extending transversely thereof to establish communication between the passageways and atmosphere, and a valve nipple communicating with the hollow valve to direct air to the passageways.

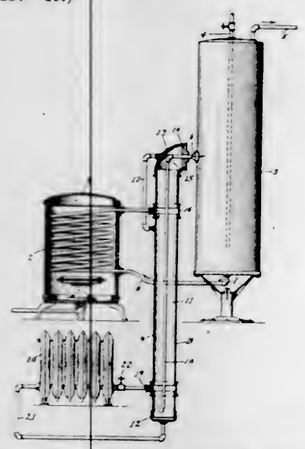
1,473,035. PRICE INDICATOR. HERBERT R. GOTTFRIED, Erie, Pa. Filed Aug. 1, 1922. Serial No. 578,965. 2 Claims. (Cl. 40—86.)



1. A price indicator comprising a casing having a sight opening in its front wall, means projecting from the back wall of the casing to support the same upon the edge of a shelf, a pair of spools disposed within the

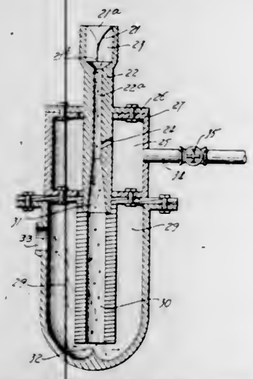
casing, means acting upon the spindle of one of said spools to effect rotation of the same, motion-transmitting means operatively connecting the spools, idlers adjacent the front wall of the casing at opposite sides of the sight opening therein and an endless display web trained about both said spools and the idlers and across the sight opening in the casing parallel with the plane of said sight opening.

1,473,036. WATER HEATING AND CIRCULATING DEVICE. RICHARD GREENHAM, San Francisco, Calif. Filed May 26, 1920. Serial No. 384,273. 2 Claims. (Cl. 237—19.)



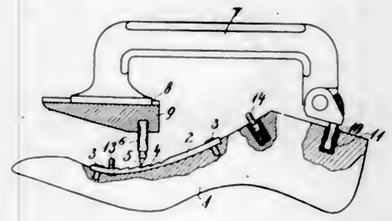
2. A liquid heating and circulating apparatus comprising a heater and a receptacle, an interposed circulating device including a stand-pipe, an inlet pipe connecting the upper end of the stand-pipe with the heater, a tube extending through the stand-pipe and connected at its upper end with the receptacle and open at its lower end to communicate with the interior lower end of the stand-pipe, a radiator, a pair of pipes connecting the radiator with the lower end of the stand-pipe, one forming a feed and the other a return connection, and a pipe connection between the lower part of the receptacle and the heater.

1,473,037. VACUUM-PRODUCING APPARATUS. JOHN WILKINSON GREIG, Ivanhoe, Victoria, Australia. Filed June 18, 1923. Serial No. 646,253. 4 Claims. (Cl. 230—13.)



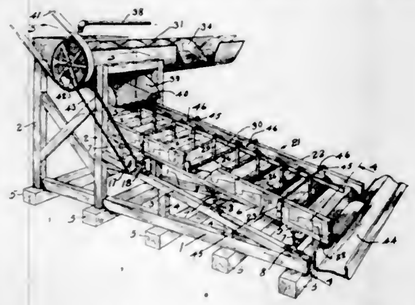
1. A vacuum producing apparatus comprising an air chamber, a jet nozzle entering one end of said chamber, means in the nozzle to rotate the jet formed thereby, and a double conical combining nozzle mounted in the chamber in alinement with the jet nozzle, directly receiving the jet therefrom and adjustable in said chamber to and from the jet nozzle for regulating the air admission to said combining nozzle with respect to the jet.

1,473,038. PRESSING BOW AND LAST. OTTO HABICHT, Muhlheim-on-the-Main, Germany. Filed June 28, 1922. Serial No. 571,427. 5 Claims. (Cl. 12—123.)



1. In combination with a presser bow for shoes, a last, a sleeve in the rear part of said last designed to receive a stud of the presser bow, and means at the front part of the last designed to hold the second stud of the presser bow at different points.

1,473,039. PLACER-MINING MACHINE. THOMAS F. HARKINS, Denver, Colo., assignor, by mesne assignments, to The Little Giant Machine Company, Denver, Colo., a Corporation of Colorado. Filed July 29, 1922. Serial No. 578,440. 3 Claims. (Cl. 83—88.)

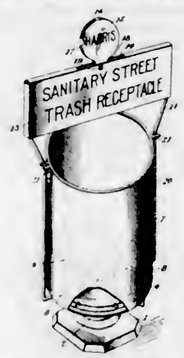


1. In a placer mining machine in combination a supporting framework, an inclined riffle table having parallel sides supported on said framework and adapted to oscillate with respect thereto, transverse pockets in said table, a stirring element pivotally connected to said sides for co-operating with said pockets, cam means for moving said table in the downward direction, spring means for moving said table in the upward direction with a quick motion, stops adapted to be engaged by the table in its uppermost position and means for feeding a mixture of sand and water to the upper end of said table.

1,473,040. COMBINED STREET SIGN AND TRASH RECEPTACLE. ORLANDO C. HARRIS, Louisville, Ky. Filed June 27, 1921. Serial No. 480,709. 2 Claims. (Cl. 40—125.5.)

1. A device of the character described comprising a pedestal, a substantially U-shaped frame having the free ends of the arms thereof supported thereon, the crown portion of said U-shaped frame having a loop portion formed therein, a sign formed of a blank piece of metal adapted to be folded back upon itself and

supported on said crown portion of said frame so as to extend on opposite sides of said frame, said folded portion being provided with an elongated slot whereby said loop portion may extend therethrough, and an auxiliary sign supported on opposite sides of said loop portion.

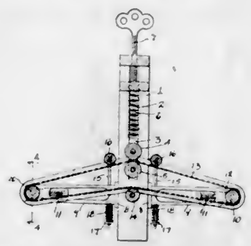


1,473,041. TOURNIQUET. ALBERT ENNIS HENDERSON, Toronto, Ontario, Canada. Filed July 12, 1920, Serial No. 395,722. Renewed Mar. 30, 1923. 27 Claims. (Cl. 128—327.)



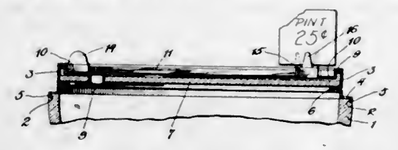
1. A tourniquet consisting of a flexible contractile band capable of being wrapped under tension one or more times around a member and having an interior integral surface bar for conveying localized pressure.

1,473,042. GUARD FOR WRINGERS AND IRONING MACHINES. FRANK HREBEK, Cleveland, Ohio. Filed Apr. 18, 1921. Serial No. 462,099. 1 Claim. (Cl. 68—32.)



An attachment for a wringer comprising spaced frame members adapted to be engaged upon the vertical frame members of a wringer, a pair of rollers adjustably supported in the ends of said frame members, respectively, on opposite sides of said wringer, an endless belt mounted about said rollers, said belt being passed between the co-operative rollers of the wringer, a pair of vertically slidable rods mounted on said first-mentioned frame members on each side of and adjacent said wringer rollers, resilient elements on the lower ends of each of said rods, and guard rollers journaled respectively in the upper ends of said rods in parallel relation with the wringer rollers and held in resilient contact with said endless belt.

1,473,043. CONTAINER COVER. WILLIAM PLAGG, Seattle, Wash. Filed Oct. 19, 1922. Serial No. 595,550. 5 Claims. (Cl. 215—38.)



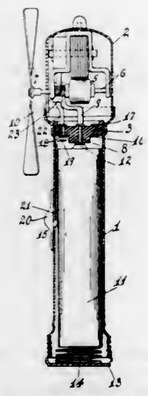
1. A cover, comprising a rim having a receptacle engaging flange on the lower end, and an inwardly extending flange between the ends, a cover section partially filling said rim seated on the inwardly extending flange, a movable rim mounted in the upper end of the first mentioned rim and above the cover section, and a cover section mounted in the movable rim and movable therewith, said cover sections being adapted to completely close the opening within the rims.

1,473,044. MOLDING MACHINE. JAMES T. POKORNY, Cedar Bayou, Tex., assignor to A. T. Eddingston, Port Arthur, Jefferson County, Tex. Filed Apr. 22, 1920. Serial No. 375,836. 5 Claims. (Cl. 25—21.)



1. A device of the character described including a molding chamber, having an inlet opening at one end and an outlet opening at the other end, traveling conveyors spaced apart and arranged one above the other and movable from the inlet toward the outlet end of said chamber, side conveyors, one arranged on each side of the outlet end of the chamber between which the material is carried by said conveyors first mentioned.

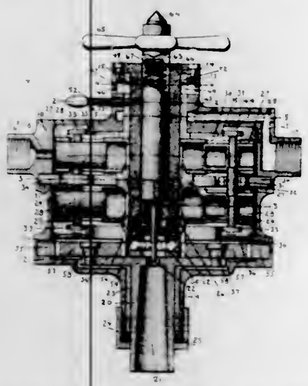
1,473,045. PORTABLE ELECTRIC FAN. HENRY F. PUTTAERT and MARCEL MOREAU, San Francisco, Calif. Filed Feb. 13, 1922. Serial No. 536,058. 2 Claims. (Cl. 230—1.)



1. A pocket fan including a hollow handle, a cap adapted to close one end thereof, a hood adapted to be screwed on the other end thereof, a battery enclosed in the handle, a plug of insulation adapted to be inserted in the upper end of the handle, a ring contact on each side of the plug, pins connecting the rings, a slidable contact

adapted to contact with the lower contact ring, a motor, a shaft therefor extending outside of the hood, a propeller fan mounted on the outside of the hood on the shaft, a lead extending from the upper ring contact to the motor and a lead extending from the motor to the battery.

1,473,046. PORTABLE DRILLING MACHINE. CHARLES L. RAGOT, New York, N. Y., and LOUIS F. RAGOT, Milford, Pa., assignors to Ragot Motor Corporation, a Corporation of New York. Filed July 26, 1919. Serial No. 313,464. 20 Claims. (Cl. 121—34.)

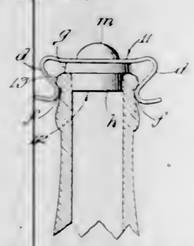


1. In a portable drilling machine, a tool holder, a fluid operated rotor coaxial therewith and having a plurality of cylinders with their axes disposed radially in respect to said tool holder, speed reducing gearing connecting said rotor and said tool holder, and screw feed mechanism extending axially through said rotor.

1,473,047. COMPOSITION FOR BUILDING TILE. GUSTAV RAU, Kansas City, Mo., assignor to Rau Construction Company, Kansas City, Mo. Filed Oct. 3, 1922. Serial No. 592,031. 1 Claim. (Cl. 106—34.)

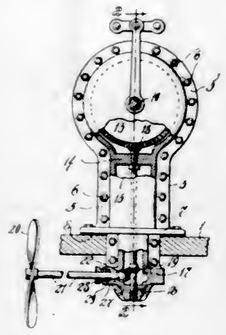
A composition consisting of seventy per cent plaster Paris, thirty per cent slacked lime, seven per cent saw dust and three per cent corn stalks, said corn stalks reenforcing said tile.

1,473,048. BOTTLE STOPPER. HENRY P. ROBERTS, Boston, Mass. Filed Feb. 9, 1921. Serial No. 443,667. 2 Claims. (Cl. 215—40.)



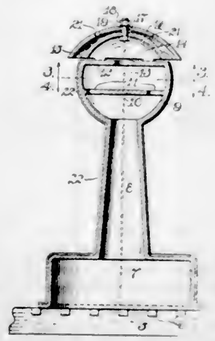
1. A bottle stopper comprising a sheet metal plate having a middle body portion with a hole therethrough for engagement with a rubber plug, and having downwardly bent spring fingers integral with said body portion for engaging with the neck of a bottle, in combination with a rubber plug having a lower stopper portion adapted to fit within the mouth of the bottle, a peripheral flange portion on the upper side of said stopper portion, a neck surmounting said flange portion which fits the hole in the plate, said neck being surmounted by a head of larger diameter than the neck, the head, flange and neck forming a peripheral groove around the plug, the head being compressible to permit passage of the head through the opening in the plate, the plate and the plug being held in engagement with each other by the neck, head and flange of the plug.

1,473,049. FOOT PROPELLING DEVICE FOR BOATS. LUTHER B. ROBERTS, Sweetwater, Tex. Filed May 6, 1922. Serial No. 558,969. 1 Claim. (Cl. 115—25.)



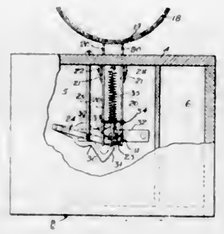
In a boat propelling device, a casing having its lower end formed to project through an opening provided therefor in the bottom of the boat, a flange carried by the casing and formed to seat on and be secured to the bottom of the boat to limit the extent of projection of the said lower end of the casing through the boat bottom, a vertical shaft journaled at its lower end in the bottom of the casing, means to drive the shaft, a frame formed for attachment to the stern of the boat, a horizontal shaft for disposal beneath the boat bottom journaled at one end in the frame and at its opposite end in the rear side of the lower end of the casing, a propeller on the shaft, means to drive the inner end of the horizontal shaft from the lower end of the vertical shaft, and a steering rudder journaled at one end in the frame.

1,473,050. FUEL-SAVING DEVICE FOR FURNACES. NELSON J. RUSSELL, Chicago, Ill. Filed Oct. 24, 1921. Serial No. 509,898. 6 Claims. (Cl. 126—163.)



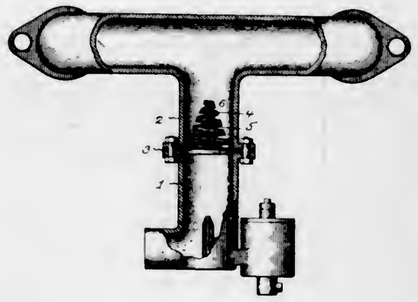
1. A fuel-saving device consisting of a relatively flat hollow base having its lower portion open, an upright chimney mounted on the upper surface of the base in communication with the cavity thereof, and a casing on the upper portion of the chimney and in communication therewith, said casing having a plurality of communicating chambers and provided with a horizontally disposed opening leading from one of the chambers of said casing.

1,473,051. GOLF PUTTING BOX. ALONZO B. SCOTT, Fairmont, W. Va. Filed Apr. 20, 1921. Serial No. 462,799. 6 Claims. (Cl. 265—22.)



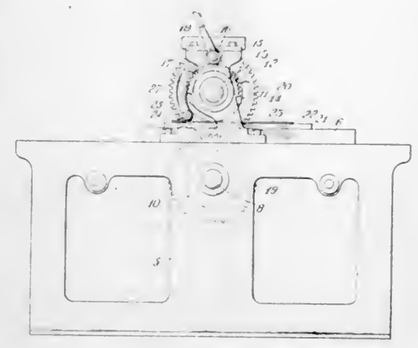
1. A device of the character described comprising a casing adapted to normally rest on the ground, a buffer carried exteriorly by said casing at one side and movable horizontally relatively thereto, said buffer having an arcuate form and adapted to receive the impact of a golf ball having approximately the same arc, registering mechanism carried within said casing for indicating the force of the blow upon the buffer, said buffer and registering mechanism being operatively connected, spring mechanism for controlling the resistance offered by the buffer to the stroke of the golf ball, and mechanism controllable at the will of the operator for adjusting the tension of said spring mechanism.

1,473,052. MIXING ATTACHMENT FOR ENGINE FUEL INTAKES. JAMES W. SHAW, Chicago, Ill. Filed Feb. 27, 1922. Serial No. 539,444. 2 Claims. (Cl. 48—180.)



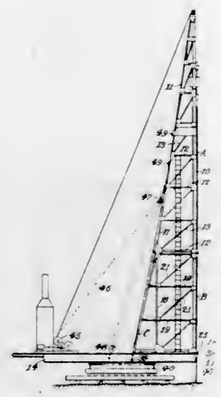
1. A mixing device for the fuel intake of engines, comprising a pair of cone shaped spirals of corrugated plate metal arranged centrally one within the other, an annular flanged base member adapted for insertion between the attaching flanges of an engine manifold and a carbureter, and a series of bracing strips extending from said base member to said spirals and from convolution to convolution of the same.

1,473,053. MATRIX-ROLLING MACHINE. CHARLES SIPLE, Chicago, Ill., assignor to The Goss Printing Press Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 13, 1922. Serial No. 600,629. 5 Claims. (Cl. 101—12.)



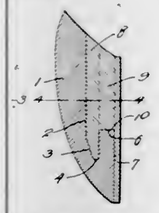
1. A matrix rolling machine comprising a pressure cylinder, means for moving a form and matrix past said cylinder, and means adjacent to said cylinder for exerting a continuous downward pressure upon the matrix in advance of its being acted upon by said pressure cylinder.

1,473,054. PILE DRIVER. HERMAN R. SMITH, Brooklyn, N. Y., and ALBERT E. TWIST, Clifton, N. J., assignors to Raymond Concrete Pile Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 9, 1921. Serial No. 450,919. 19 Claims. (Cl. 189—15.)



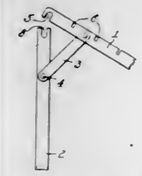
1. In a pile-driver, a supporting base, a pile-driving tower thereon comprising a plurality of superposed separable tower-sections the upper being capable of use alone as a pile-driving tower and the lower serving to support the former on the base and increase the height of the tower when desired, and means for removably hinging the lower section to the supporting base.

1,473,055. INTERCHANGEABLE FACING AND BACKING. THOMAS STEELE, Columbus, Ohio, assignor to The Columbus Dental Manufacturing Company, Columbus, Ohio. Filed Sept. 13, 1920. Serial No. 409,949. 6 Claims. (Cl. 32—9.)



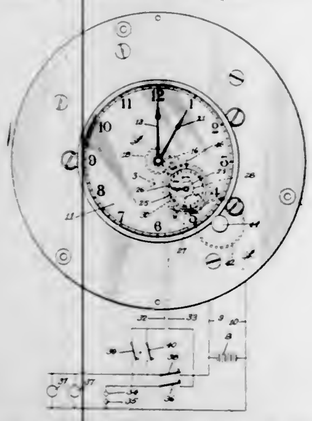
1. A backing for a facing having a post and a web connecting the post to the backing, the outer perimeter of the post converging at its lower end portion towards the backing.

1,473,056. CAMP GRATE. AXEL W. STEEN, Los Angeles, Calif. Filed Sept. 14, 1922. Serial No. 588,168. 3 Claims. (Cl. 126—30.)



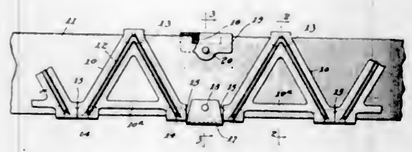
1. In a grate structure spaced side frames comprising rack rails having downwardly opening notches at their ends, and legs having upwardly opening notches at their tops; said notches being adapted for engagement by rods spanning said space and said legs being swingingly connected to the respective ends of said rails by links adapted to constitute diagonal braces when said notches are so engaged.

1,473,057. TIME-CONTROL ARRANGEMENT. LEWIS J. STERN, New York, N. Y., assignor to Sterling Clock Co., Inc., a Corporation of New York. Filed Apr. 15, 1920. Serial No. 374,029. 14 Claims. (Cl. 161—1.)



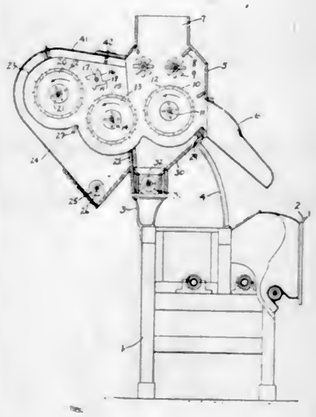
1. A time control arrangement having in combination with a clock movement, an indicating dial driven thereby to rotate once in twenty-four hours, an electric switch member rotated in timed relation with the dial, a source of electric energy, an electric light, means whereby the switch member causes the light to be supplied from said source, and means for setting the switch member with respect to said dial to change the time when said light is supplied from said source without disturbing the relationship of the dial with respect to the clock movement.

1,473,058. REMOVABLE TRACTOR SPUR OR LUG. CHARLES MARSH STEWARD, Piano, Ill. Filed Nov. 21, 1921. Serial No. 516,708. 5 Claims. (Cl. 301—44.)



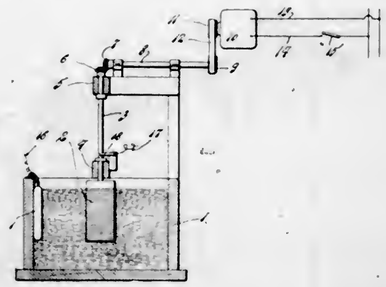
4. A spur structure for tractor wheels comprising a plurality of substantially V-shaped elements extended across the rim of the wheel and interengaged with the edges thereof, whereby said elements are loosely mounted upon said rim; said elements arranged with the outer portions of their arms in juxtaposition with each other, and a spacer coacting with the wheel rim and interposed between adjacent portions of a pair of said elements whereby the latter are retained in place against excessive circumferential movement upon said rim.

1,473,059. CLEANER ATTACHMENT FOR COTTON-GIN FEEDERS. JOHN ARNOLD STREUN, Sherman, Tex., assignor to Hardwicke-Etter Company, Sherman, Tex. Filed Feb. 19, 1923. Serial No. 620,004. 5 Claims. (Cl. 19—67.)



1. The combination of a gin feeder comprising guide rollers and a feeder cylinder, with an attachment including a picker cylinder positioned to the rear of and below said feeder cylinder, a cleaning cylinder to the rear of and above said picker cylinder, a knocker roller to the rear of said picker cylinder having agitating blades thereon adapted to break up the cotton, means of driving said cylinders in the same direction, and to rotate said knocker roller in the opposite direction, and a screen below said cylinders and roller, in the manner described.

1,473,060. METHOD OF ELECTROPLATING. EDWARD N. TAYLOR, St. Louis, Mo., assignor to Walter A. Zelnicker, St. Louis, Mo. Filed Dec. 17, 1921. Serial No. 523,174. 6 Claims. (Cl. 204—11.)



1. The method of electro-plating which comprises plating which comprises plating the surface of an article in an electro-plating solution, permitting the solution to remain substantially quiescent for relatively long periods of time, and forcibly removing foreign matter from said surface during shorter intervening periods.

1,473,061. PISTON. HORACE T. THOMAS, Lansing, Mich. Filed May 7, 1921. Serial No. 467,733. 7 Claims. (Cl. 74—108.)



1. The combination of a piston, a piston pin, a screw threaded locking pin for securing said piston pin, said locking pin having a squared head adjacent to the open end of said piston and adapted to be engaged by a wrench, a spring adapted to automatically engage over the squared end of said pin to hold the same from rotation, said spring being adapted to be pressed out of engagement with the squared end of said pin by the engaging wrench, said piston being provided with an annular ridge around the open end, said spring having a prong engaging over said ridge to prevent the spring from falling away from said pin.

1,473,062. COMBINED TAMPON PACKER AND SYRINGE. CHARLES L. TINKER, New Philadelphia, Ohio. Filed Oct. 23, 1922. Serial No. 596,302. 2 Claims. (Cl. 128—260.)

1. The combination with a tampon packer including a tampon guiding tube; of an outer tube adapted to receive said tampon-guiding tube, and means for connecting the rear end of said outer tube with said tampon-guiding tube in a fluid-tight manner, the front end of said outer tube being rounded and perforated, whereby a liquid fed through the tampon-guiding tube may be discharged from



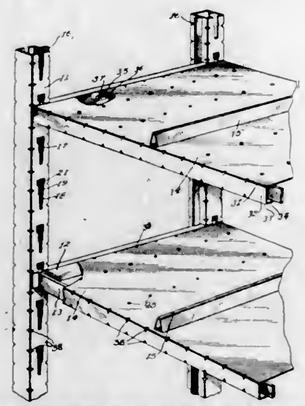
said outer tube, the rear end of said tampon-guiding tube being adapted for the attachment of a liquid supply tube thereto.

1,473,063. ACOUSTIC STYLUS MOUNTING. FRANK TUCHFARBER, Cincinnati, Ohio. Filed Dec. 3, 1920. Serial No. 427,932. 3 Claims. (Cl. 274—37.)



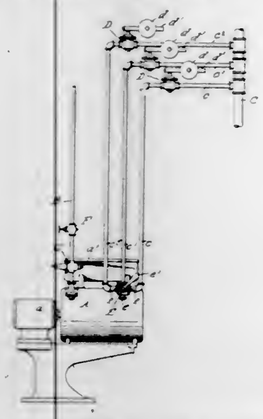
2. A stylus mounting consisting of a cylindrical elastic bushing independent of but adapted to substantially surround acoustic styli of various sizes, said bushing having a longitudinal opening in the wall thereof, so as to permit the cylindrical size of said bushing to be changed to accommodate styli of various sizes.

1,473,064. METAL SHELVING. WALTER N. VANCE, Chicago Heights, Ill., assignor to Durand Steel Locker Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 15, 1919. Serial No. 317,648. 15 Claims. (Cl. 211—27.)



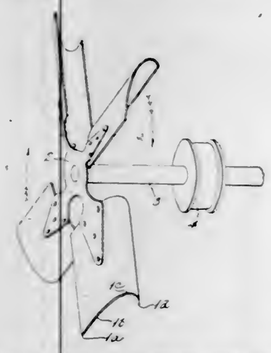
1. In a sheet metal shelving a member having a relatively long edge subjected to bending strains transverse its length, a flanged part extending in the line of the edge and resisting the bending strain, the material at the line of bend being distorted at intervals to stiffen said edge and prevent sagging thereof.

1,473,065. TEMPERATURE-CONTROLLING MEANS FOR ICE-CREAM FREEZERS. GUSTAVE A. WEGNER, Rochester, N. Y. Filed Nov. 25, 1921. Serial No. 517,525. 10 Claims. (Cl. 62—126.)



1. Temperature controlling means for refrigerating devices, including an evaporator, means for supplying liquid refrigerant to said evaporator, a main suction pipe, a plurality of back pressure valves connected with said main suction pipe, each of said back pressure valves being adapted to produce a different back pressure, and means for connecting said evaporator with any of said back pressure valves to subject said evaporator to different pressures for producing different temperatures therein.

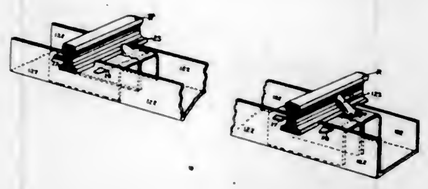
1,473,066. FAN FOR AUTOMOBILE RADIATORS OR THE LIKE. MERRITT R. WELLS, Cleveland, Ohio. Filed Mar. 20, 1922. Serial No. 545,170. 6 Claims. (Cl. 170—159.)



1. A fan of the propeller or screw type for circulating air or other fluids, having one or more blades, the trailing face of each blade being so shaped that the angle between the same and the axial plane decreases to zero from the leading edge towards the trailing edge and reverses so as to become negative over a portion of such face.

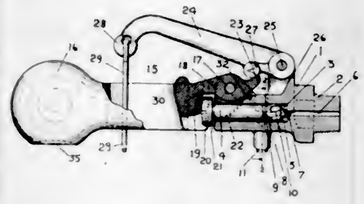
1,473,067. METAL RAILROAD TIE AND RAIL FASTENER. WILLIAM H. H. WELTON, Dallas, Tex. Filed Dec. 5, 1922. Serial No. 605,120. 6 Claims. (Cl. 238—63.)

1. In combination a trough shaped tie a pair of members which support the rails and reinforce the tie under the rails, slidable within the tie, said members being each of a width equal to one-half the width of the tie inside, each member being provided with two parallel sides and joined by a web and provided with clips for engagement



with the flanges of a railroad rail, said members being identical in construction, and means for securing said members to the tie and clamping them against the flanges of the rail.

1,473,068. GAUGE COCK. BENJAMIN B. WHITTAM, Elizabeth, N. J., assignor to Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed July 3, 1919. Serial No. 308,562. 10 Claims. (Cl. 251—147.)

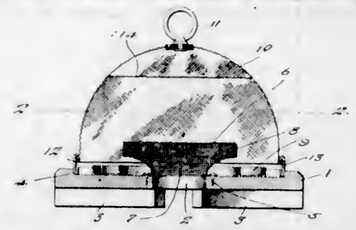


5. In a gauge-cock for steam boilers, a valve body, a stem having one end enlarged to form a head and flange, a valve at the oposite end of the stem, a seat for the valve, a pivoted weighted-member having a projection arranged to engage with the said head and hold the valve upon the seat, a pair of lugs upon the weighted-member to engage with the said flange to move the valve away from the seat when the weighted-member is lifted, an arm integral with the weighted-member, an operating lever pivoted upon a bearing integral with the valve body, one end of the said operating lever extending partly over the weighted-member, a boss upon the operating lever near the fulcrum thereof and arranged to engage with the arm upon the weighted-member, a slot in the weighted-member, a pull-connection connected to the end of the operating lever and adapted to pas downwardly through the slot in the weighted-member, the entire arrangement operating to open the valve when the said pull-connection is pulled downwardly and to automatically close the valve when the said pull-connection is released.

1,473,069. ROACH TRAP. WILLIAM WINTERS, Chicago, Ill. Filed Dec. 8, 1922. Serial No. 605,673. 1 Claim. (Cl. 43—118.)

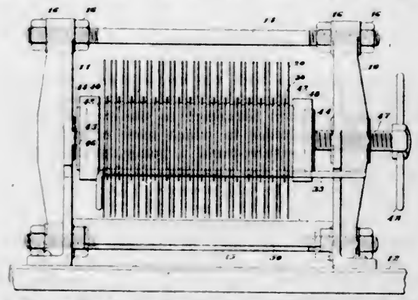
A roach trap comprising a base having a central opening and also having cleats at its underside and extending outwardly from said central opening, and further having a circular depression in its top about said circular opening, a guide member of reticulated material arranged on and attached to the bottom of the depression about and adjacent to said opening and having a body portion and also having tapered arms extending in opposite directions from said body portion and open at their outer ends, an annular pan superimposed on the bottom of the depression

and having its inner edge in substantially the same vertical plane as the ends of the arms of the guide member,



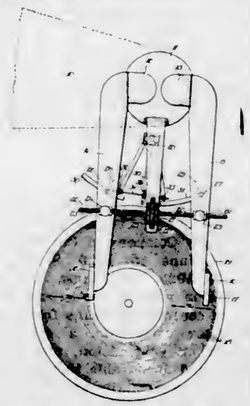
a dome member removably arranged on the base and in the depression thereof, and means detachably fastening the dome member on the base.

1,473,070. GAP. SAMUEL T. WOODHULL, Medford, and GEORGE J. WALLER, Somerville, Mass., assignors to American Radio & Research Corporation, Medford, Mass., a Corporation of Delaware. Filed Sept. 15, 1919. Serial No. 324,015. 14 Claims. (Cl. 250—38.)



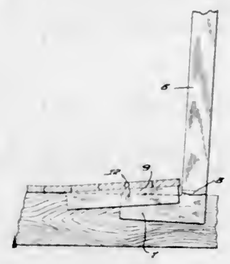
1. A spark gap comprising a plurality of sheet metal plates each of substantially uniform thickness throughout and having formed therein a flat central sparking area, and an annular trough surrounding the sparking area, an insulating gasket interposed between the plates, and means for clamping the plates and gasket together to provide a substantially air-tight sparking chamber.

1,473,071. REPEATING MECHANISM FOR PHONOGRAPHS. EDITH F. ANDREWS and WILLIAM BAYARD STERGIS, Chicago, Ill. Filed Apr. 1, 1921. Serial No. 457,619. 2 Claims. (Cl. 279—15.)



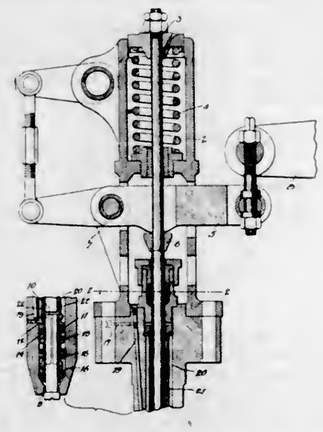
1. In a phonograph instrument, two tone arms provided with styli adapted to cooperate with a record of the instrument, means associated therewith for maintaining the tone arms with their styli alternately inoperative, said means comprising members for elevating the tone arms whereby the styli are alternately lifted from their operative engagement with a record, and means for actuating said members.

1,473,072. WRECKING TOOL. SWAN F. ANDERSON and AXEL FARB, Rockford, Ill. Filed Oct. 7, 1921. Serial No. 506,175. 6 Claims. (Cl. 254—131.)



6. A wrecking tool comprising a single-bar lever turned at one end to provide a long operating arm and a short thrust arm and having a laterally projecting fulcrum lug extending from each side at the juncture of said arms, the shorter arm having an elongated thrust face disposed in angular relation to the major axis of the longer lever arm in a plane substantially intersecting the fulcrum lugs, and disposed on the side of said shorter arm opposite from the bearing side of said fulcrum lugs.

1,473,073. PULVERIZER. AXEL AUGUST ASPLUND, Auburn, N. Y. Filed Feb. 17, 1920. Serial No. 359,413. 4 Claims. (Cl. 123—33.)

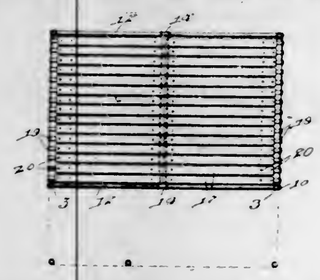


1. A pulverizer having a continuous conduit, said conduit extending helically first in one rotative direction and then reversed and extending helically in the opposite rotative direction.

1,473,074. PORTABLE SHELTER. CHARLES I. BAKER, Orland, Calif. Filed Feb. 6, 1922. Serial No. 534,615. 2 Claims. (Cl. 5—236.)

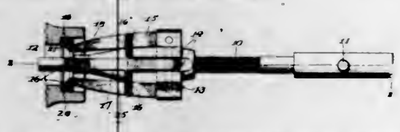
1. In combination, a main frame including quadrilaterally disposed vertical members, horizontally dis-

posed bed frame members connected to said vertically disposed members, a fabric cover stretched over a pair



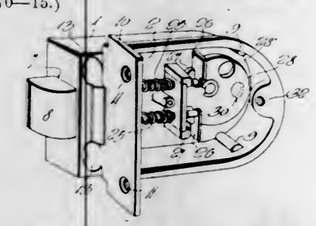
of the horizontally disposed members and slats having hooked ends engaging over said pair of members and clamping the cover thereto.

1,473,075. BEARING-RACE REMOVER. WALTER A. BATES, Enid, Okla. Filed Apr. 15, 1922. Serial No. 553,083. 1 Claim. (Cl. 29—88.2.)



A bearing race puller including a block having a central internally threaded portion and radiating pairs of apertured arms, bearing race engaging pawls pivotally mounted between the pairs of arms, a screw threaded through the central portion of the said block and having its outer end unthreaded, and a cone-shaped spreading block removably secured on the unthreaded portion of the screw and engaged with the inner faces of the said pawls.

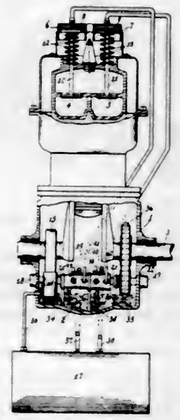
1,473,076. LOCK. RALPH S. BONILLA, New York, N. Y. Filed Feb. 6, 1922. Serial No. 534,480. 5 Claims. (Cl. 70—15.)



1. In combination, a strike plate adapted to be secured to a door frame, said plate having an integral bolt keeper spaced horizontally from the inner edge of said plate and being also provided with lateral tapered lugs above and below the bolt receiving portion of said keeper; a bolt-carrying lock casing adapted to be secured to a door with one end extending beyond the edge thereof, said one end of said casing having laterally opening tapered sockets between the bolt and the upper and lower edges of the casing, said sockets being adapted to snugly receive said lugs whereby the casing and strike plate are tied together with the door in closed position.

4. A strike plate provided at one vertical edge with a bolt keeper and provided at its other vertical edge with a lateral flange, the central portion of said flange being beveled on its outer side towards said strike plate and having a countersunk screw hole whose axis is at right angles to the beveled surface.

1,473,077. VALVE-OPERATING MECHANISM. GEORGE L. BELL, Oakland, Calif. Filed Apr. 16, 1921. Serial No. 461,796. 11 Claims. (Cl. 123—92.)



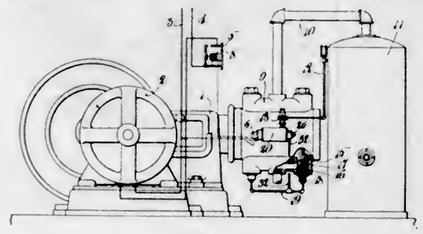
6. In combination with the crank case, crank shaft, intake valve and exhaust valve of an internal combustion engine, a piston connected to the stem of each of said valves, a cylinder in which each of said pistons reciprocates, a pressure tank, a pump operated by the engine crank shaft for pumping oil from the engine crank case sump into said pressure tank, a valve shaft journaled in said crank case, said valve shaft being formed in two telescoping sections, said sections being formed with a longitudinal groove and a cam groove respectively, a clutch surrounding said shaft at the joint between said sections, pins on said clutch engaging said grooves respectively, a valve including a valve cone secured on one of said shaft sections and a valve casing surrounding said cone, two pipes leading from said pressure tank into said valve casing, two pipes leading from said valve casing into said cylinders respectively, exhaust pipes leading from said latter pipes respectively into said valve casing, two outlet pipes leading from said valve casing, two ports in said valve cone, a pinion on the other section of said valve shaft, and a gear on the engine crank shaft meshing with said pinion for rotating said valve cone to cause one of said ports first to register with one pipe leading from said tank and the pipe leading into the cylinder for operating the engine intake valve, and then to register with the exhaust pipe, leading from said pipe which leads to said intake valve operating cylinder, and with one of said outlet pipes, and to cause the other cone port to register first with the other pipe leading from said tank to the valve casing and the pipe leading from said casing into the engine exhaust valve operating cylinder, and then to register with the other exhaust pipe and the other outlet pipe.

1,473,078. COMPRESSOR-CONTROLLING MECHANISM. LEWIS J. CLAPP, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed June 15, 1920, Serial No. 389,197. Renewed Jan. 31, 1923. 16 Claims. (Cl. 230—24.)

1. The combination with a compressor and a driving motor therefor, of controlling means for said compressor and for said motor comprising a cylinder, a piston therein, a plunger on said piston, means in alinement with said plunger and engageable thereby for controlling said motor, and means coaxially arranged with said piston and controlling the condition of said compressor.

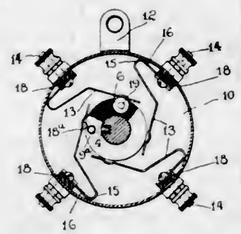
13. In a compressor system comprising a compressor and means for driving the same, means for stopping and starting the compressor in accordance with variations

in discharge line pressure and for causing said compressor to be started unloaded and to be loaded when a predetermined speed of drive is reached comprising a member movable in opposite directions when compressor discharge pressure respectively exceeds and falls below a predetermined amount, means for controlling the com-



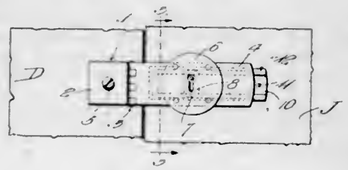
pressor driving means adapted to be actuated by said member adjacent one end of its path of movement, and a valve adapted to be moved to open position and controlling the loading of the compressor arranged to be opened as said member approaches the opposite end of its movement.

1,473,079. TIMER. ROBERT C. CLARKE, Laurel, N. Y. Filed Mar. 3, 1921. Serial No. 449,306. 5 Claims. (Cl. 200—26.)



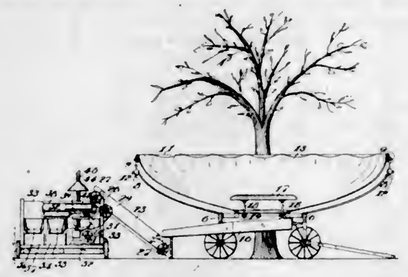
2. A timer comprising a shaft, a rotor of insulation material carried thereby, said rotor having a partly cylindrical, transverse peripheral groove, a cylindrical contact element fitted in said groove and projecting from the peripheral surface of the rotor, a casing, and a number of spring contact elements carried by said casing, said spring contact elements bearing normally against said rotor to successively engage said cylindrical contact element with wiping contact.

1,473,080. HASP FASTENER. CALHOUN COLLINS, Bakersfield, Calif. Filed July 10, 1922. Serial No. 573,807. 1 Claim. (Cl. 292—281.)



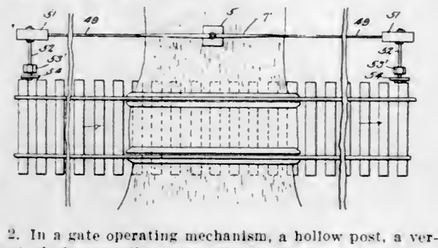
A keeper for a hasp comprising a plate adapted to be attached to a support and having a wide undercut groove therein, a button slidably and turnably mounted in said groove, and an outwardly extending loop fixed to said button and extending outwardly through the groove and moved to a desired angular relation to said plate through turning of the button in the groove.

1,473,081. FRUIT CATCHER AND GRADER. JOSEPH F. COOK, San Francisco, Calif. Filed Feb. 20, 1922. Serial No. 537,947. 1 Claim. (Cl. 56—329).



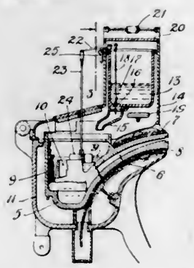
In a fruit gatherer, a fruit catching element comprising a truck, a plurality of arms extending therefrom in substantially radial direction, each having a vertical sleeve associated with its end, a ring having downwardly extending studs for adjustably engaging the sleeves and a canvas supported on the ring.

1,473,082. RAILWAY HIGHWAY STOP. JOE E. COURTNEY, Plainview, Tex. Filed Apr. 26, 1923. Serial No. 634,802. 7 Claims. (Cl. 246—293.)



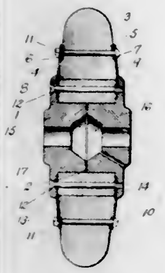
2. In a gate operating mechanism, a hollow post, a vertical shaft extending above the post, a gate arm supported on the upper end of the shaft and adapted to rotate in a horizontal plane, train controlled means within the hollow post and adapted to operate to rotate the shaft to move the gate arm to its open or closed position, and means for automatically locking the shaft against rotary movement.

1,473,083. MAIN AND AUXILIARY MELTING POT FOR LINOTYPE MACHINES. GEORGE L. CURLE, Minneapolis, Minn. Filed Sept. 3, 1921. Serial No. 498,326. 4 Claims. (Cl. 22—80.)



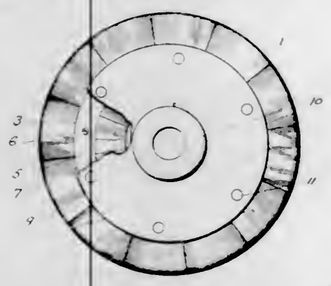
1. The combination of the main melting pot of the character indicated, the same being moveable laterally, of an auxiliary melting pot connected to and movable with the said main pot and arranged to reduce solid metal to molten condition and to discharge the same into said main melting pot.

1,473,084. WHEEL. THOMAS G. DADE, St. Marys, Ohio. Filed May 14, 1923. Serial No. 638,880. 3 Claims. (Cl. 301—63.)



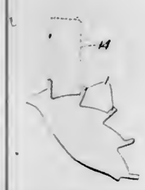
1. A wheel comprising a rim, a tire about the rim, side plates bearing against the rim and overlapping the tire, hub sections received within the rim and having flanges overlapping the side plates, and means for securing the side plates and hub sections together.

1,473,085. WHEEL. THOMAS G. DADE, St. Marys, Ohio. Filed May 14, 1923. Serial No. 638,881. 2 Claims. (Cl. 301—63.)



2. A wheel tire comprising a plurality of wedge-shaped blocks arranged end to end, each block having its fibers running radially of the center of the tire, rings inset in the sides of the blocks to hold them together, in combination with a hub, side plates engaging the hub and opposite faces of the tire, and rivets projecting through the side plates and through the blocks.

1,473,086. METHOD OF MANUFACTURING CUTTERS. ARTHUR C. DAVIDSON, Bronxville, N. Y., assignor to D. Co., Inc., New York, N. Y., a Corporation of New York. Filed Oct. 30, 1919. Serial No. 334,437. 18 Claims. (Cl. 76—101.)



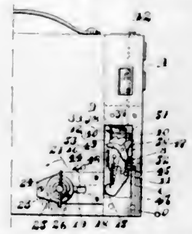
1. The method of making a spiral fluted cutting tool consisting in casting the tool with projecting spiral ribs extending beyond the cutting edges, finishing the flutes by grinding to the contour of an abrading tool and removing said projecting ribs.

1,473,087. IRRIGATING DEVICE. LUTHER B. DEMUTH, New Philadelphia, Ohio. Filed Apr. 24, 1922. Serial No. 556,262. 11 Claims. (Cl. 299—64.)



1. A sprinkler comprising a rotatably mounted supply pipe having water outlets spaced longitudinally thereof, resilient means connected with the pipe and yieldably holding the pipe against rotation in one direction, a lever arm extending radially from said pipe, a water receptacle, a hanger loosely connected with the free end portion of the lever arm and having pivotal connection with the receptacle, said receptacle normally hanging in a horizontal position and when filled to a predetermined extent tilting to an emptying position, and a branch pipe leading from the supply pipe and terminating above the receptacle to permit gradual filling of the receptacle to slowly move the receptacle and arm downwardly and rotate the pipe against the action of the resilient means prior to dumping of the receptacle, the resilient means quickly returning the lever and supply pipe to a normal position when the receptacle is emptied.

1,473,088. CAMERA LOCK FOR PREVENTING DOUBLE EXPOSURE. WILLIAM FRANCIS CUMNOR DEVLIN and SIDNEY WALKER GRAHAM, Ottawa, Ontario, Canada; said Graham assignor to said Devlin. Filed Nov. 10, 1921. Serial No. 514,413. 17 Claims. (Cl. 95—31.)

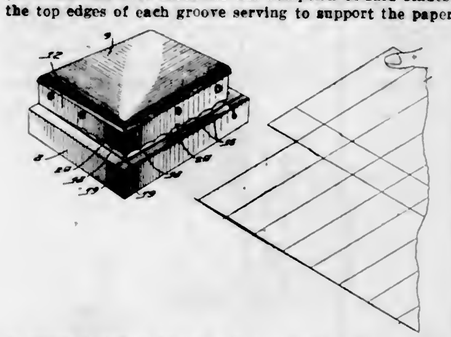


1. A device of the character described comprising in combination, an oscillatory shutter control lever adapted to be moved in a certain way to effect instantaneous exposure, and, to be moved in another way, to effect time exposure, film winding means, and means for preventing operation of the shutter control lever until after the film winding mechanism has been operated when the shutter control lever is operated for instantaneous exposure as well as when it is operated for a time exposure, the said means including a cam operated by the film winding device, and a latch device operated by the cam and engaging the shutter control lever.

1,473,089. COUPON CLIPPER. LEVIN FAUST, Rockford, Ill., assignor of one-third to Eric S. Ekstrom and one-third to Ernest Estwing, both of Rockford, Ill. Filed Mar. 25, 1921. Serial No. 455,419. 10 Claims. (Cl. 164—43.)

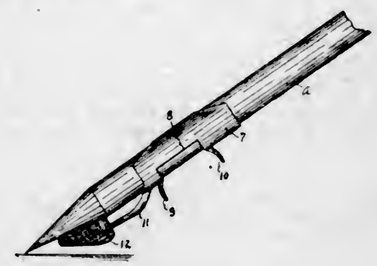
1. A coupon clipper comprising a base block, a cutter block hinged on the base block and equipped with a blade

along the front edge and another along an end edge substantially at right angles to the front blade, and narrow grooves in the base block for the reception of said blades, the top edges of each groove serving to support the paper



on opposite sides of and in close proximity to its respective blade when the latter pierces the paper, and each groove opening at its lower end into an enlarged clearance space for the waste.

1,473,090. ERASING ATTACHMENT FOR PENCILS. GILBERT E. FERRY, Omaha, Nebr. Filed May 12, 1921, Serial No. 468,929. Renewed Apr. 11, 1923. 7 Claims. (Cl. 120—38.)



4. In an erasing attachment for pencils, a sleeve having a slot opening on its ends, that part of the sleeve opposite to the slot being provided with a forwardly projecting prong and a pair of adjacently disposed, oppositely curved projections, an erasing-block removably mounted on the prong, the wall of the sleeve between the projections being provided with an aperture to permit the finger of an operator to engage the pencil while disposed between the projections.

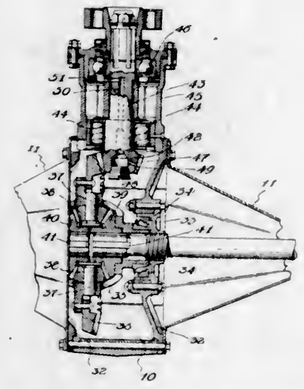
1,473,091. AUTOMOBILE FOOT RAIL. RAYMOND IVAN GRAF, Grand Rapids, Mich., assignor to Keeler Brass Company, Grand Rapids, Mich. Filed Oct. 29, 1920. Serial No. 420,376. 1 Claim. (Cl. 296—75.)



In a foot rail, the combination of the plate-like sheet metal end brackets flanged at their lower edges to provide feet, and having segmental annularly disposed

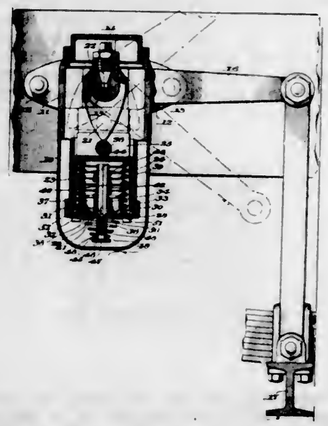
slots at their outer ends, and a tubular rail longitudinally slotted at its ends providing segmental tongues which are disposed through said segmental slots in said bracket members and folded upon the outer sides thereof clamping the said brackets against the spaced shoulders provided by the inner ends of the slots.

1,473,092. MOTOR VEHICLE. EARL G. GUNN, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 14, 1919. Serial No. 338,106. 8 Claims. (Cl. 74—7.)



1. In an axle, in combination, a supporting casing, an axle shaft carried thereby, driving gearing carried by said shaft, a drive shaft, gearing connecting said drive shaft with said first mentioned drive gearing, bearing for said drive shaft and means for conducting lubricant through the gearing carried by said drive shaft to said bearing.

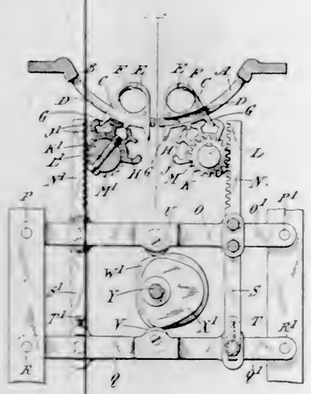
1,473,093. MOTOR VEHICLE. EARL G. GUNN, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 28, 1920. Serial No. 406,682. 24 Claims. (Cl. 188—88.)



1. A shock absorber comprising a member adapted to be secured to one of two relatively movable elements, a member adapted to be secured to the other of said ele-

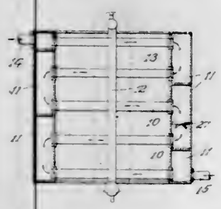
ments, and resiliently controlled means carried by the first named member and adapted to resist only the return movement of said elements from their extreme positions to their initial positions.

1,473,094. LACE MACHINE. WILLIAM JOHN HAWKER, Chard, England, assignor to Gifford Fox & Company Limited, Chard, Somerset, England, a Company of Great Britain. Filed Jan. 2, 1923. Serial No. 610,255. 5 Claims. (Cl. 96—20.)



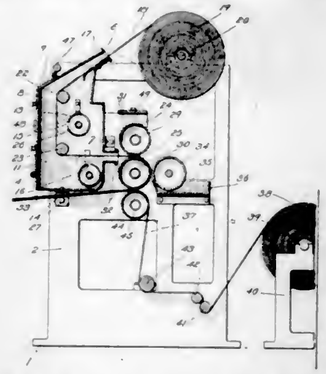
1. A lace machine including in combination two sets of comb bars projecting inwardly towards one another, means for reciprocating the warp threads in the space between the adjacent inner ends of the comb bars, a bobbin carriage adapted to slide on the comb bars through the warp threads, three downwardly projecting toes on the bobbin carriage, two oscillating locker members having undercut teeth which engage the toes of the bobbin carriage throughout its travel across the comb bars, and means for oscillating the locker members as set forth.

1,473,095. APPARATUS FOR STERILIZING LIQUIDS BY MEANS OF ULTRA-VIOLET RAYS. VICTOR HENRI, Zurich, Switzerland, ANDRÉ HELBRONNER, Paris, France, and MAX VON RECKLINGHAUSEN, New York, N. Y. Original application filed Oct. 31, 1910, Serial No. 589,995. Divided and this application filed Apr. 2, 1918. Serial No. 226,346. 9 Claims. (Cl. 99—15.)



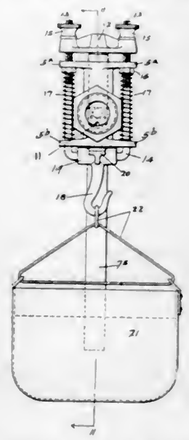
1. In apparatus for treating liquids by means of ultra-violet rays the combination of a plurality of tubular windows or chambers permeable to ultra-violet rays, manifolds connecting said tubular windows, and a lamp capable of emitting ultra-violet rays located in proximity to said tubular windows.

1,473,096. MACHINE FOR MAKING CELLULAR BOARD. IRVING HILL and PAUL A. DINSMOOR, Lawrence, Kans., assignors to Lawrence Paper Manufacturing Company, Lawrence, Kans., a Partnership composed of M. G. Bowersox, Irving Hill, Paul A. Dinsmoor, Hortense B. Hill, Mary B. Dinsmoor, Jean B. Blackwelder and Margery B. Dalton. Filed June 10, 1921. Serial No. 476,468. 1 Claim. (Cl. 154—30.)



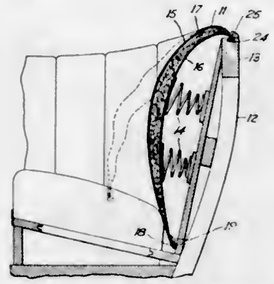
A machine for making cellular board, comprising a tempering chamber having an inlet opening and an outlet opening, vertically spaced rollers for guiding a sheet through the chamber, means for delivering steam horizontally against one face of the sheet during passage of the sheet between the vertically spaced rollers, means for delivering steam vertically against the opposite face of the sheet after its passage over said rollers, and a pair of corrugating rollers for receiving the sheet between them after its delivery through the outlet opening.

1,473,097. AUTOMATIC FAUCET. DAVID M. HOLBROOK, Portland, Oreg. Filed Dec. 26, 1922. Serial No. 608,814. 2 Claims. (Cl. 137—68.)



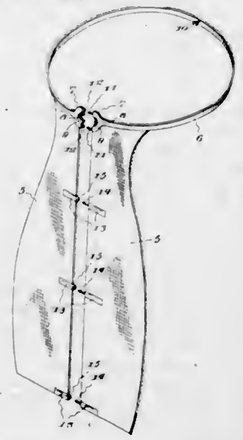
2. In an automatic faucet, a faucet body, receiving opening, discharge opening, a piston, two lugs at the top of said body, two lugs at the bottom of said body, a U bolt running through said lugs from the bottom to the top, a yoke attached to the top ends of said U bolt by means of thumb screws resting on said piston, an eccentric member attached to the middle of said U bolt, a lug on said member, substantially as described.

1,473,098. UPHOLSTERY SECURING DEVICE. ROYAL B. HOLLENBECK and HAROLD ROE, Flint, Mich. Filed Jan. 12, 1921. Serial No. 436,784. 9 Claims. (Cl. 155—184.)



1. Securing means comprising a sheet metal clip adapted to be clamped over an edge of a flexible material and provided with an outwardly extending edge portion adapted to engage within a recess or groove in a structure to which the said material is to be attached.

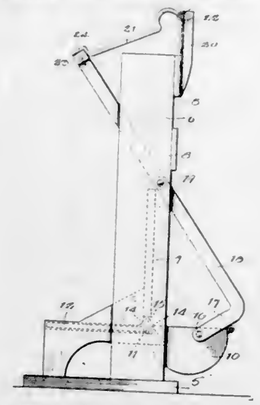
1,473,099. NECKWEAR. FRANK H. HOLMES, Chicago, Ill. Filed Oct. 13, 1922. Serial No. 594,336. 7 Claims. (Cl. 2—83.)



1. A neck scarf comprising a neck-band which is divided, said band being of resilient material and having normal annular form with abutting ends, end securing devices bridging the butt joint at the extremities of the ends of the band and flaps depending from the end portions of the said band.

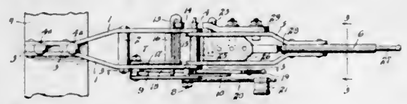
1,473,100. HOG TROUGH. MATHIAS J. HOSCH, Randolph, Nebr. Filed Oct. 13, 1921. Serial No. 507,428. 9 Claims. (Cl. 119—63.)

1. A device of the character described comprising a supporting frame, including a base, having guide-ways, said guide-ways being in alignment and curved at one end, an upright extending above the base; a trough, having trunnions adapted to ride in the guide-ways and thereby carry the trough from one position to the other; a shifting frame pivotally connected to the trough at a point off its center, said shifting frame being pivotally connected to the uprights and consisting of a pair of arms and a transverse bar connecting the arms at their upper ends; locking means for holding the shifting frame in the desired position consisting of a support secured to the supporting frame and a locking member pivoted to the support and having its body bent at each end to conform to



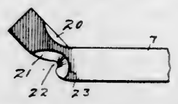
the shape of the transverse bar; and an opaque partition mounted between the uprights of the supporting frame, all as and for the purposes set forth.

1,473,101. IRON BENDER. ALBERT HOSSFELD, Lewiston, Minn. Filed July 19, 1922. Serial No. 575,998. 9 Claims. (Cl. 153—45.)



6. A bending machine having in combination, a main frame comprising spaced horizontal bars adapted to be attached to a support, a bending frame also comprising spaced horizontal bars, a vertical pivot pin connecting the inner ends of the bars of said frames, the bars of said main frame having series of alined holes therethrough, a pin insertable in any pair of said alined holes, an angular stop block eccentrically mounted on said pin, and means for supporting said block above the lower bar of said main frame.

1,473,102. AXLE DIES. REINHOLD G. HOUSDORFER, Detroit, Mich. Filed Apr. 21, 1921. Serial No. 463,132. 5 Claims. (Cl. 78—65.)

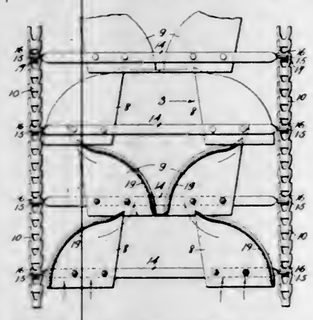


1. Means for partially forming an axle from a blank, comprising dies between which the blank may be held, an instrumentality carried by one of said dies adapted to bend the blank when the dies are brought together and means adapted to impinge against the instrumentality to further shape the open end of the blank held by said die.

1,473,103. WATER MOTOR. JOHN T. JOHNSTON and JOHN KINCAID, Vancouver, British Columbia, Canada. Filed June 5, 1922. Serial No. 565,869. 10 Claims. (Cl. 170—84.)

10. A water motor, comprising the combination with a flume through which a stream of water is directed, of a shaft rotatably mounted in bearings secured to the edges

of the flume at each end, sprocket wheels secured on the shafts, endless chains passing round the sprocket wheels, open frames secured to the chains and extending between them and open sided buckets secured in pairs within each open frame, the open sides of each pair of buckets delivering toward one another and from one another alter-



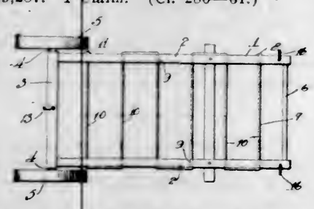
nately so that the water delivery from one pair of buckets is toward the closed ends of the next pair in advance of it on the chain, means for continuously supporting the immersed lengths of the chains, a renewable wearing strip constituting such support, and a renewable wearing piece on each chain contacting with the wearing strips.

1,473,104. CREAM DIPPER. AUGUST P. JURGENSEN, New York, N. Y., assignor to Isidor Goldberg, Brooklyn, N. Y. Filed Mar. 15, 1923. Serial No. 625,420. 2 Claims. (Cl. 137—18.)



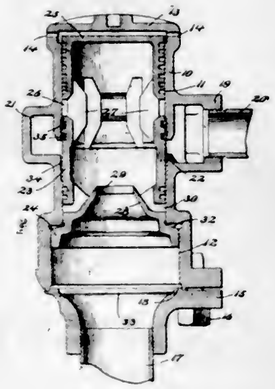
1. A cream dipper consisting of a tubular body with restricted end openings and having an integral projecting flange at the top of the tubular body for supporting it within a bottle mouth, the upper surface of the flange being in the plane of the upper end of the body.

1,473,105. COTTON-PICKER'S BAG CARRIER. ROBERT KEITH, Hornbeak, Tenn. Filed Jan. 3, 1920. Serial No. 349,287. 1 Claim. (Cl. 280—61.)



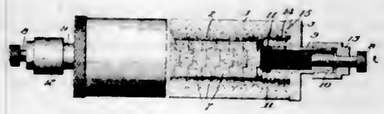
A bag carrier consisting of a wheeled frame, said frame having spaced side rails, and a single length of wire woven through said side rails to provide spaced strands bridging the side rails to form a support for the bag, and the length of wire thereby providing bracing portions engaging the outer side surfaces of the rails and connecting alternate pairs of the strands at said side rails.

1,473,106. DRIFTING VALVE. WILLIAM F. KIESEL, Jr., Altoona, Pa. Filed Jan. 17, 1820. Serial No. 352,002. 4 Claims. (Cl. 121—137.)



1. An automatic drifting valve comprising in combination, a valve body, a differential sleeve slidable therein adapted to control the supply of steam from the boiler to the steam chest, said sleeve being closed at its small end and open at its other, the space in the valve body at the small end of the sleeve being incommunication with the atmosphere and the opposite end in communication with the steam chest, ports in the body and sleeve adapted to be placed in communication when the sleeve is moved in one direction because of the reduced pressure in the steam chest, the ports in the body being adapted for connection to the boiler whereby steam under pressure is supplied to the steam chests, and means for conducting steam to act on the differential area of said sleeve when the said ports are open, whereby the valve is held open until a substantial pressure has been built up in the steam chest.

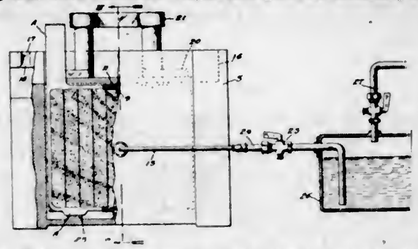
1,473,107. RESISTOR. MILTON M. KOHN, New York, N. Y. Filed Feb. 3, 1921. Serial No. 442,047. 20 Claims. (Cl. 219—76.)



2. A resistor comprising a mechanically and chemically protective casing and resistor material within said casing, said casing being made of granular material, the granules at the inner side being coarse and the granules at the outer side being fine whereby substantially impermeable gas pockets are formed.

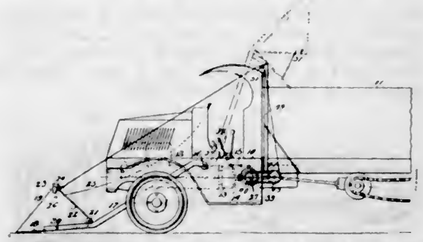
1,473,108. BATTERY-PLATE-TREATING APPARATUS. JOHN M. LEA, Detroit, Mich. Filed Dec. 27, 1921. Serial No. 525,118. 8 Claims. (Cl. 204—29.)

7. Apparatus for treating plates comprising a support having a surface adapted to receive and effect liquid-tight engagement with a plate, a wedge member insertible between a fixed abutment and a plate positioned on said surface, said wedge member provided on the plate-engaging side with alternate ridges and grooves extending in



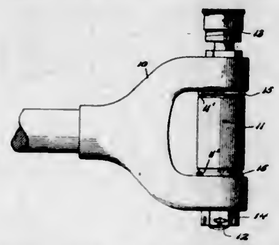
the direction of movement of said wedge member, and means for supplying liquid under pressure to the side of said plate opposite the wedge member.

1,473,109. TRUCK-LOADING SCOOP. FRANK LIBERTINI and ALPHONSO SAVENO, Fairview, N. J. Filed Apr. 22, 1921. Serial No. 463,687. 2 Claims. (Cl. 214—78.)



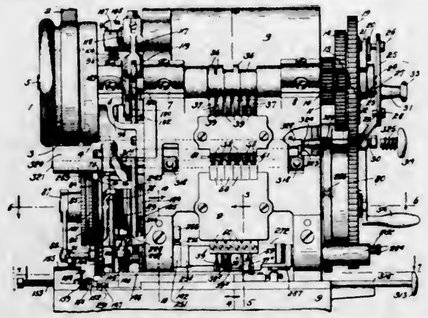
1. In combination a truck, power operating mechanism, a transverse operating shaft, gearing for driving the shaft from the power operating mechanism, means for reversing the operation of the shaft, stub shafts, means for rotating said last mentioned shafts, a pair of forwardly and downwardly extending arms attached to the last mentioned shafts, a scoop carried by the front ends of the arms and forwardly of the truck, a gate mounted on the scoop, a pair of standards on the truck, a cable winding mechanism including pulleys on the standards for elevating the scoop, said standards supporting the scoop at its extreme upper or dumping position.

1,473,110. DUST GUARD FOR BEARINGS. THOMAS J. LITLE, Jr., Detroit, Mich., assignor, by mesne assignments, to Harold H. Emmons, Detroit, Mich. Filed Mar. 29, 1920. Serial No. 369,525. 6 Claims. (Cl. 64—22.)



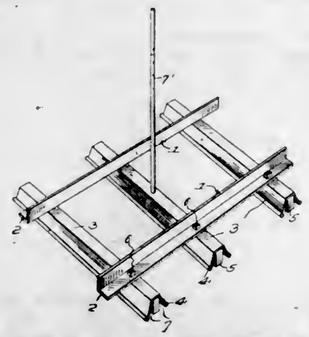
1. In a motor vehicle, the combination with two connected chassis members supported for limited relative rotation about a common axis, one of said members having an annular surface facing toward the other member and inclined relatively to the adjacent surface of said other member, said surfaces forming the side walls of an outwardly facing circular groove between said members, and a contractile ring in said groove and bearing by its own resilience on the opposed surfaces of said member to prevent the entrance of dirt into the joint between said members.

1,473,111. COMB-CUTTING MACHINE. EVARTS G. LOOMIS, Newark, N. J., assignor to Viscoloid Company, Leominster, Mass., a Corporation of Massachusetts. Filed Mar. 1, 1920, Serial No. 362,420. Renewed May 23, 1923. 54 Claims. (Cl. 144—26.)



1. In a machine of the class described, a series of successively acting cutters for cutting more than one kind of teeth and means for mounting the cutters in fixed guides, and means for driving each cutter with a reciprocating movement along an axis, a reciprocating comb slide and means for mounting the same and means for driving the same so that the cutters may operate successively to make suitable, cooperative incisions and automatically vary to form said different teeth in a blank carried by the comb slide.

1,473,112. WASHING MACHINE. CHARLES E. MCCOY, Logansport, Ind. Original application filed Dec. 8, 1920, Serial No. 428,020. Divided and this application filed Dec. 17, 1921. Serial No. 523,009. 3 Claims. (Cl. 259—124.)

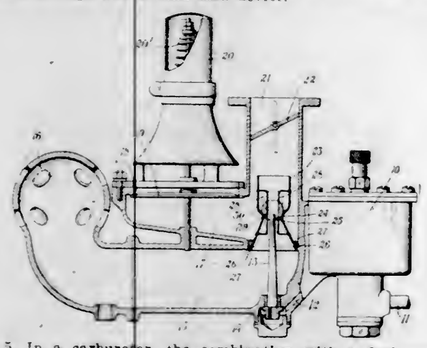


1. A washing machine pounder comprising a series of parallel arranged open-ended inverted channel-shaped bars, liner bars substantially filling the channels of the channel-shaped bars and having their side walls spaced from the inner surfaces of the side walls of the channel-shaped bars, and means for securing said channel-shaped bars together and said liner bars to the channel-shaped bars, the lower edges of the side walls of said bars having rounded surfaces to prevent tearing of materials being washed.

1,473,113. CARBURETOR. WILLIAM R. MCCULLA, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 2, 1916. Serial No. 129,151. 10 Claims. (Cl. 261—62.)

1. In a carburetor, the combination with a fuel nozzle and a Venturi tube surrounding said nozzle, of a device having an air passage and adapted in one position to surround the outlet end of said nozzle and close the throat of said tube except for the air passage of said device and

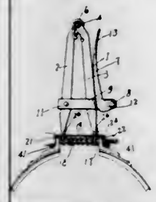
in another position to permit direct co-operation of said nozzle with said Venturi tube and allow the passage of air both through and around said device.



5. In a carburetor, the combination with a fuel nozzle and an air tube surrounding the nozzle, of a movable valve co-operating with said nozzle and tube to provide a freer passage of air around the nozzle as the suction in the tube increases, said valve having an opening to receive the end of the nozzle when the valve is in position otherwise closing the throat of said tube, and said valve being movable to a position wholly above the outlet of said nozzle and permitting the passage of air both through said opening and around the valve.

8. In a carburetor, a fuel nozzle, a primary air tube surrounding said nozzle, means forming a secondary air passage surrounding said tube, a valve having an air passage therethrough positioned in said primary air tube and adapted in one position to close the passage through said tube, except for the passage through said valve, and in another position to permit the free passage of air through and around said valve.

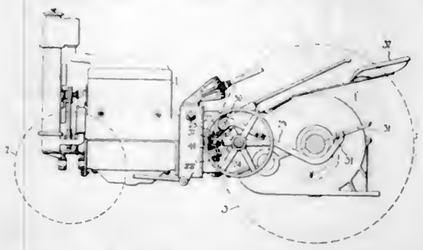
1,473,114. AUTOMOBILE TOOL. MILES MCINTYRE, Healdsburg, Calif. Filed Apr. 13, 1922. Serial No. 552,195. 8 Claims. (Cl. 29—87.1.)



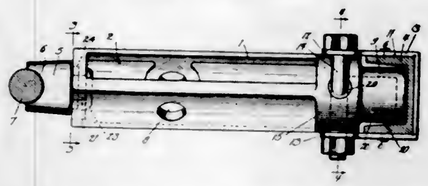
1. Means for compressing a plurality of springs mounted on parallel shafts comprising a pair of tongs pivotally connected at one end and terminating in flat and parallel jaws, having spaced recesses therein adapted to engage the springs at opposite ends, two guiding members for one of said tongs straddling rigidly secured to the other and having a lever pivoted therebetween for forcing the tongs together whereby the springs are compressed, and spring means for opening the tongs.

1,473,115. BRAKE AND CLUTCH MECHANISM. ARTHUR C. MASON, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Mar. 22, 1920. Serial No. 367,933. 5 Claims. (Cl. 192—13.)

1. A self propelled vehicle including a main frame embodying an engine casing and a transmission casing rigidly connected together, a crank shaft in the engine casing, a main shaft, a clutch for connecting the main shaft to the crank shaft at will, an oscillating clutch operating shaft for operating said clutch, a flywheel external to the transmission casing and driven by the main shaft, brake means associated with said flywheel and supported by said clutch operating shaft, and a single lever for operating both the brake means and the clutch operating shaft aforesaid whereby the clutch is actuated to disconnect said shafts as the brake is applied to the flywheel.

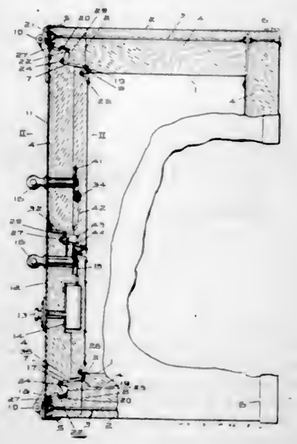


1,473,116. REVERSIBLE BRAKE-BEAM FULCRUM. EDWARD A. MAYHEW, Cleveland, Ohio, assignor to The Damascus Brake Beam Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 4, 1921. Serial No. 458,278. 18 Claims. (Cl. 188—232.)



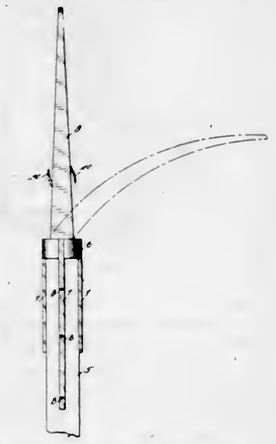
5. A brake beam fulcrum comprising a slotted body member having a journal extension on one end thereof and a transverse opening adjacent said extension, and a rod seat rotatably mounted at the other end of said body portion.

1,473,117. FIREPROOF SAFE. CHARLES F. MEILINK, Toledo, Ohio. Filed Sept. 20, 1919. Serial No. 325,123. 14 Claims. (Cl. 109—2.)



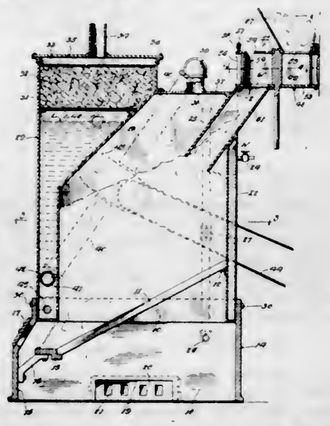
1. A safe comprising inner and outer walls having a jamb therebetween including a medial under-cut groove, said jamb having compressible packing strips in said groove and on each side of said groove, and a door having a rib to swing into the groove and engage the groove packing strips, said door having three packing strips, each in closed position of the door, being spaced from a packing strip of the jamb.

1,473,118. FENCE. ARTHUR JON MILLER-MASURY, Cleveland, Ohio. Filed Aug. 26, 1922. Serial No. 584,588. 1 Claim. (Cl. 256—1.)



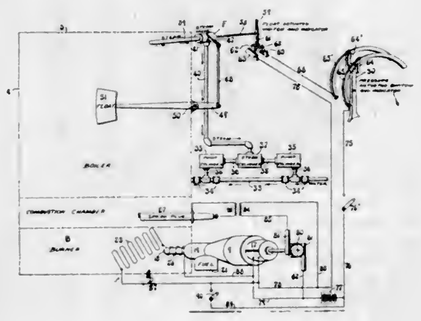
A fence post construction including a lower stationary section, a circular body portion adapted to be fitted over the upper end of the lower section, securing strips having connection with the body portion and adapted to engage portions of the lower section, said securing strips extending longitudinally of the lower section and secured thereto, and a wire supporting section formed of flexible material secured to the body portion at the lower end of the wire supporting section.

1,473,119. GAS PRODUCER. FRANK E. MODLIN, St. Joseph, Mo. Filed June 1, 1922. Serial No. 565,258. 8 Claims. (Cl. 48—67.)



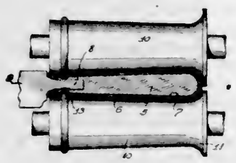
1. In a gas producer having a furnace; a gas filtering tank covering one side and a portion of the top of said furnace and containing water, a water filled jacket enclosing the other sides of the furnace, and means including a perforated pipe near the bottom of said tank for delivering gas from the furnace into said filtering tank, said gas filtering tank being adapted to be heated by the furnace.

1,473,120. REGULATING DEVICE FOR STEAM BOILERS. GEORGE F. MOORS and EDWARD E. MARTIN, St. Louis, Mo., assignors to The Recip-Roto Engine Company, St. Louis, Mo., a Corporation of Delaware. Filed July 22, 1918. Serial No. 246,183. 12 Claims. (Cl. 158—45.5.)



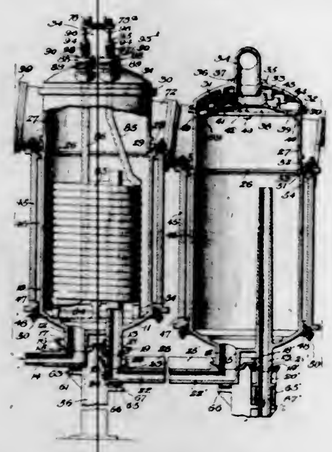
1. A steam boiler provided with a burner for heating the water therein, a fuel discharging device for the discharge of fuel to said burner, electrical means whereby said fuel discharging device is actuated, said electrical means including a switch through which electrical energy is transmitted to actuate the fuel discharging device and said switch being adapted to be opened and closed to control the delivery of fuel to the burner, a pressure indicating gage operated by the pressure in said boiler, and means for transmitting movement from said pressure indicating gage to said switch so as to automatically open the switch in response to an abnormally high pressure.

1,473,121. PROCESS OF MAKING KNIFE HANDLES. WILMER I. NELSON, Warren, Mich. Filed June 23, 1922. Serial No. 570,451. 6 Claims. (Cl. 76—106.)



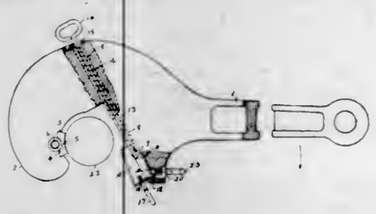
1. A process of making a knife handle and attaching it to a knife blade, consisting of forming an embryo handle from a permanent core, filler and shell; inserting a blade tang in one end of the core; subjecting the core, filler and shell to the action of rolls to close the filler and shell about the permanent core and form an embryo bolster contiguous to the blade tang; and then subjecting the rolled core, filler and shell to the action of dies to mold and set the handle relative to the knife blade.

1,473,122. ACID CONCENTRATOR. JOHN PATTEN, Baltimore, Md. Filed Sept. 7, 1918. Serial No. 253,085. 19 Claims. (Cl. 23—1.)



18. In acid concentrating apparatus, a container, piping having a horizontal joint with said container and a ledge carried by the lower of the parts of the joint and projecting above the joint to form a trough around the same adapted to contain liquid to test the joint for leaks.

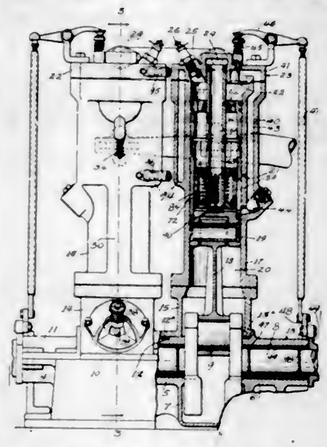
1,473,123. TONG. OSCAR PEARCE and IVAN BALES, Houston, Tex. Filed Dec. 1, 1922. Serial No. 604,400. 1 Claim. (Cl. 81—179.)



A pipe tong including a handle, one end of which is curved, said curved end having a bore substantially tangential with relation to the pipe to be turned, pipe engaging teeth carried by the free end of the curved end, adapted to engage with said pipe, on one side, a slidably mounted jaw adapted to engage with the pipe on the opposite side, a rod working through said bore one end of which is connected to said last mentioned jaw, and the other end of which is formed into a hand grip through which the slidable jaw may be manually operated, a pull spring attached to said slidable jaw and normally holding it in pipe engaging position, and a releasable locking device arranged to engage with and lock said slidable jaw in non-engaging position.

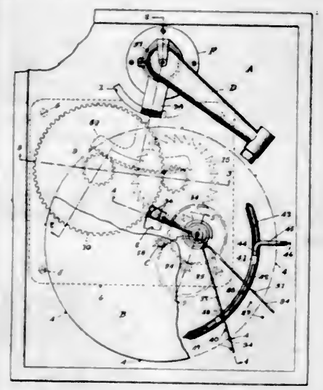
1,473,124. HIGH-COMPRESSION TWO-CYCLE ENGINE. HENRY RUEHMAN, Los Angeles, Calif. Filed Sept. 22, 1921. Serial No. 502,505. 16 Claims. (Cl. 123—50.)

1. An engine having a crank case, an explosion chamber, a primary piston in the explosion chamber, a secondary piston in the primary piston, a tubular stem holding the secondary piston stationary, a carburetor in communication with the tubular stem, and means



whereby an intake of fuel is sucked through the tubular stem during the explosion stroke and forced into the explosion chamber during the compression stroke.

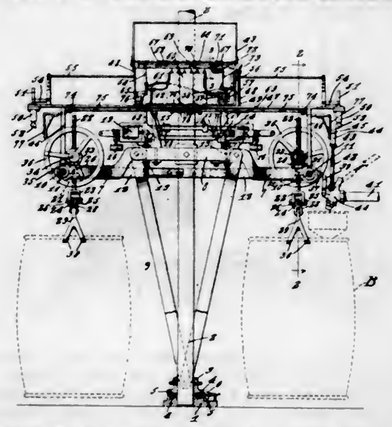
1,473,125. AUTOMATIC-STOP MECHANISM FOR PHONOGRAPHS. EARL A. RUTH, Washington, D. C. Filed Apr. 9, 1921. Serial No. 459,992. 22 Claims. (Cl. 192—118.)



1. In a stop mechanism; the combination with a rotatable member, and a traveling member propelled thereby; of a normally applied brake for the rotatable member, and a movable member driven by the traveling member, the brake being mounted independently of the movable member, and the movable member being arranged in direct engagement with the brake to maintain the latter ineffective while moving and to permit the same to become effective when its movement ceases.

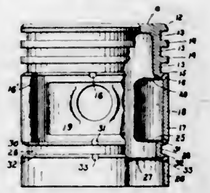
1,473,126. SCALE. FRED L. SAWYER, Jacksonville, Fla., assignor to Sawyer Specialty Scales Company, Jacksonville, Fla., a Corporation. Filed May 27, 1922. Serial No. 564,159. 11 Claims. (Cl. 249—55.)

1. The combination with rotatable weighing scales and separate means for supporting containers therefrom, of relatively fixed means for directing liquid into the containers successively when brought to position beneath the liquid directing means, and means for automatically



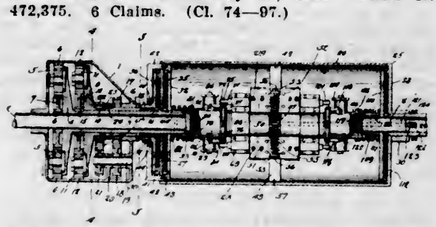
cutting off the supply of liquid to a container when the contents of the container reach a predetermined weight.

1,473,127. PISTON. CHARLES R. SHORT, Detroit, Mich., assignor to General Motors Company, Detroit, Mich., a Corporation of New Jersey. Filed Apr. 6, 1917. Serial No. 160,130. 4 Claims. (Cl. 74—108.)



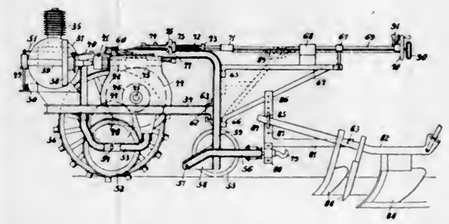
1. A hollow piston having a head portion, a skirt portion, and an intermediate portion; said intermediate portion having two oppositely disposed external recesses surrounding openings adapted to receive the ends of a piston pin, and two pads arranged in alternation with said recesses; said intermediate portion being provided with circumferentially extending internal and external strengthening ribs connecting the same with said head and skirt portions.

1,473,128. GEAR CONTROL. ELMER L. SIMONSON, Homestead, Pa. Filed May 25, 1921. Serial No. 472,375. 6 Claims. (Cl. 74—97.)



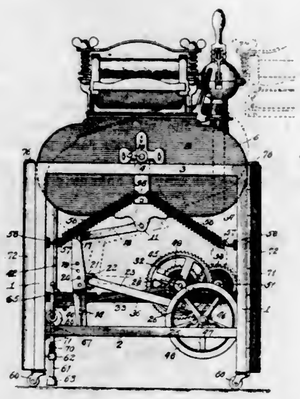
3. In a device of the class described, relatively rotatable driving elements; a member rotatable with respect to the driving elements; a first clutch carried by one driving element; means responsive to the rotation of said driving element for engaging the clutch with said member; and a second clutch carried by the other driving element and under the control of an operator to engage said member, the second clutch comprising a part cooperating with the first clutch to disengage the same from the rotatable member.

1,473,129. HAND MOTOR PLOW. RICHARD VENZLAFF, Berlin, Germany. Filed May 3, 1922. Serial No. 558,062. 4 Claims. (Cl. 97—48.)



1. A hand motor plow of the kind indicated embodying an underframe, wheels and a motor located thereon, a plow beam pivotally connected to said underframe for movement in a substantially horizontal plane, a coupling forming a connection between the underframe and the plow beam, and a steering device for the underframe and the plow beam movable in a substantially horizontal plane with the plow-beam relatively to the under-frame.

1,473,130. WASHING MACHINE. WILLIAM H. VOSS, Davenport, Iowa. Filed May 2, 1919. Serial No. 294,235. 18 Claims. (Cl. 259—75.)

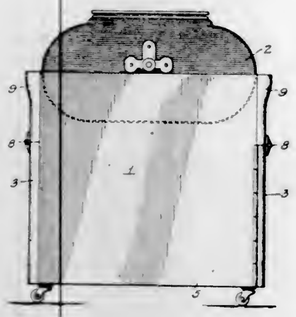


1. In a washing machine, a frame having a tub pivotally mounted directly thereon, a drive shaft having a crank arm, a connecting rod on said crank arm, a lever pivotally mounted on said frame and oscillated by said connecting rod, and a link pivotally connected to said lever and tub respectively to oscillate the tub on the frame.

1,473,131. DOOR WILLIAM H. VOSS, Davenport, Iowa. Filed Sept. 13, 1920. Serial No. 409,753. 6 Claims. (Cl. 68—21.)

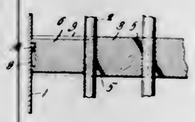
1. In a washing machine, a support, a movable tub thereon, a door hinged to the support, an auxiliary member hinged along an edge thereof to the door and being

normally near the tub, and means for normally holding the auxiliary member in closed position near the tub



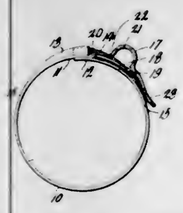
but capable of being swung on its hinge by a relatively small pressure anywhere along the edge opposite that on which it is hinged.

1,473,132. BAFFLE BRICK. FRANK H. WAITE, Long Island City, N. Y. Filed July 5, 1921. Serial No. 482,307. 1 Claim. (Cl. 110—87.)



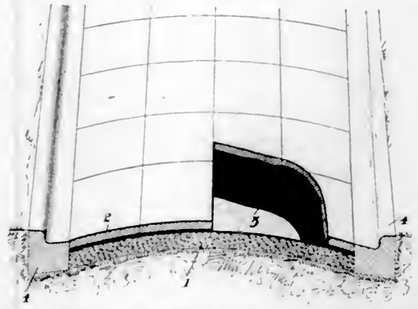
In combination, a pair of walls, a plurality of bars situated between the walls, a plurality of bricks supported between the bars, each brick provided with channels at its ends, said channels being deeper at one of their ends and said deeper portions being diagonally disposed in relation to the bricks, and a plurality of bricks situated between the bars and the walls, lugs provided on the walls, said latter mentioned bricks each provided with a channel in one end for engaging one of the bars and a bayonet slot in its other end for engaging one of the lugs.

1,473,133. HOSE CLAMP. NEIL WALKER, Madison, Ind. Filed Jan. 2, 1923. Serial No. 610,225. 4 Claims. (Cl. 24—19.)



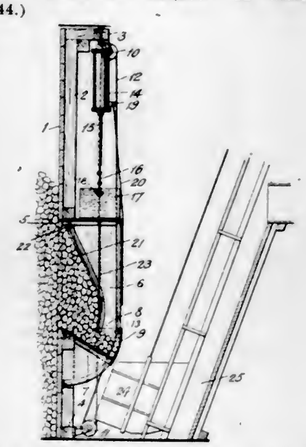
1. A hose clamp of the class described comprising a body portion, raised rib portions formed near the ends of said body portion, said raised portions gradually converging toward the body portion, one of said raised rib portions being adapted to receive the other raised rib portion, a link carried by one end of said body portion, a cam lever connected to said link, said cam lever being adapted to be received within apertures formed in the other end of said body portion.

1,473,134. ROAD CONSTRUCTION. JOHN BRYANT WATTS, Concordia, Kans. Filed June 18, 1920. Serial No. 389,902. 2 Claims. (Cl. 94—6.)



1. A roadway composed of upper and lower layers of concrete having different densities and different coefficients of expansion and contraction the upper course being the richer, and a substantially thick bituminous cushioning separator between said upper and lower layers, whereby the upper and lower layers are isolated and independent of each other.

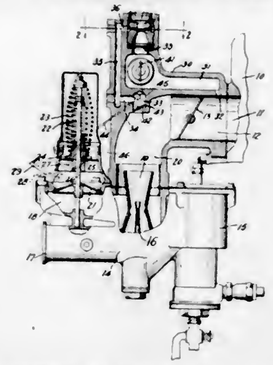
1,473,135. GATE. GEORGE B. WOOD, WILLIAM C. BIRD, and ERNEST B. PACKARD, Rockland, Me. Filed Mar. 31, 1922. Serial No. 548,270. 12 Claims. (Cl. 221—144.)



1. In a gate device, a lateral wall having an aperture therein, a chute leading from the aperture, a gate member hinged for movement from a position below the chute upwardly across the lower part of the chute to variable extents, pulleys arranged above and below the chute, and an endless cable passing between and co-operating with said pulleys, said cable being connected at one point to said gate member to operate the latter in a direction dependent upon the direction of movement of the cable.

1,473,136. HYDROCARBON MOTOR. LIONEL M. WOOLSON, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed July 11, 1921. Serial No. 483,995. 5 Claims. (Cl. 123—122.)

1. In a hydrocarbon motor, the combination with the mixture conduit thereof, of means for supplying mixture thereto, means for controlling the richness of said mixture, a combustion heating device for heating said mixture, means for supplying mixture to said device, and



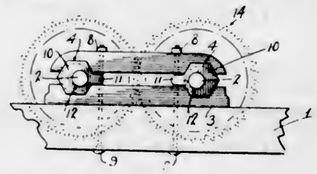
means for increasing the mixture opening to said combustion heating device in proportion to the richness of the mixture supplied to said conduit.

1,473,137. RIVET. NICHOLAS ZIERTEN, Albany, Calif. Filed Jan. 29, 1923. Serial No. 615,667. 1 Claim. (Cl. 85—37.)



A rivet of the character described comprising a head and a split shank extending therefrom adapted to be parted when driven against an element opposing endwise motion, the split being filled with material softer than that of the rivet adapted to be spread during the driving action so as to guide the two parts formed by the split in opposite directions.

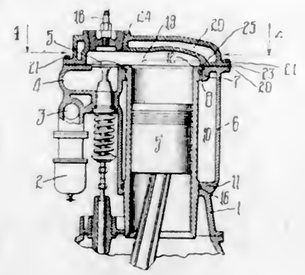
1,473,138. BEARING. ARLIE BARTLEMAY, Bluffton, Ind., assignor to The Red Cross Manufacturing Co., Bluffton, Ind. Filed Sept. 1, 1921. Serial No. 497,685. 3 Claims. (Cl. 64—53.)



1. A bearing of the class described comprising spaced supporting members having substantially semi-spherical and semi-circular recesses therein, substantially semi-spherical bearing blocks seated in said semi-spherical recesses with their ends journaled in said semi-circular recesses, and means securing said bearing blocks between the spaced supporting members.

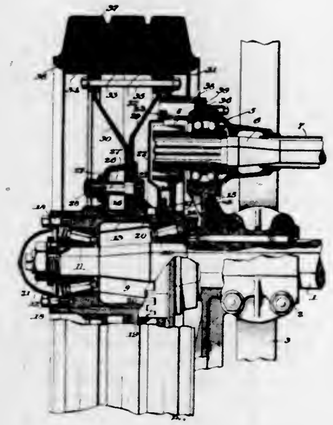
1,473,139. ENGINE-CYLINDER-SLEEVE SEALING MEANS. ARTHUR A. BULL and REX C. DARNELL, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed July 2, 1920. Serial No. 393,740. 3 Claims. (Cl. 123—173.)

1. In a device of the class described, a casing, upper and lower cylinder supports within said casing, a seat in the upper support, a gasket on said seat, a removable cylinder within said supports, and supporting means on said cylinder engaging said seat and provided with a camming surface for distorting said gasket, whereby when



said cylinder is forced to operative position in said supports a non-leakable joint is produced between said supporting means of said cylinder and the upper support, substantially as described.

1,473,140. MOTOR VEHICLE. HAROLD D. CHURCH, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 25, 1919. Serial No. 326,327. 17 Claims. (Cl. 74—7.)

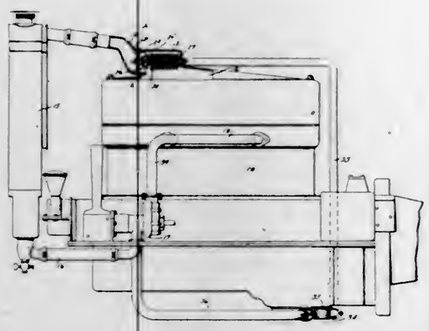


1. In a motor vehicle, in combination, a supporting axle, bearings thereon, inner and outer detachably connected hubs supported by the bearings, a wheel on one of said hubs, a driving gear directly but detachably connected to the wheel hub, and means for driving said gear.

1,473,141. HYDROCARBON MOTOR. HAROLD D. CHURCH, Fairfield, Conn., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Original application filed May 10, 1919, Serial No. 296,154. Divided and this application filed Dec. 13, 1922. Serial No. 606,755. 5 Claims. (Cl. 123—178.)

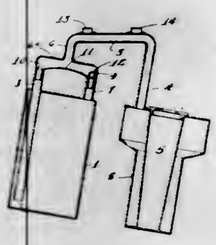
1. In a combination with a water-jacketed hydrocarbon motor, a water-jacketed oil pump, a water pump, a radi-

ator, a by-pass leading from the motor jacket around the radiator and including the oil pump jacket, a thermostat,



and a valve controlled thereby for closing or opening the by-pass, and either passing the water through the radiator or through the by-pass and oil pump jacket.

1,473,142. REFRIGERATING APPARATUS. FERNAN O. CONILL, Marseille, France. Filed Nov. 1, 1921. Serial No. 512,081. 8 Claims. (Cl. 62—120.)



1. In apparatus of the character described, in combination, a receptacle adapted to receive a liquid having dissolved therein a liquefiable gas, a refrigerating chamber adapted to receive and have condensed therein the gas driven out of solution with said liquid in said first receptacle upon the heating of the latter, a conduit connecting said two receptacles to permit passage of the gas from one to the other, said conduit having branches communicating with said first receptacle, one branch communicating with the upper portion of the receptacle and the other communicating therewith at a point adjacent the bottom thereof, and means adapted upon the tilting of the apparatus in one direction or the other to open one of said branches and close the other.

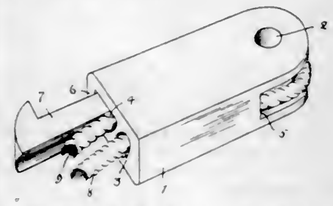
1,473,143. PLOW SCRAPER AND CLEANER. JAMES M. DEAN, Fort Worth, Tex. Filed Nov. 20, 1922. Serial No. 602,117. 1 Claim. (Cl. 97—222.)

In a plow blade scraper and cleaner, a handle having a hand grip at its upper end, a metal blade mounted at the lower end of the handle having its lower transverse edge reduced to a scraper, the top edges of the blade on each side of the handle being curved outwardly from the handle at a relatively wide degree and terminating in an outwardly directed blunt finger, whereby weeds and the like may be quickly released from the top of the blade,



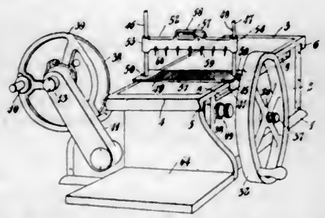
and means intermediate the ends of the handle for detachably supporting it on the frame of an agricultural implement within easy reach of the driver.

1,473,144. CABLE CLAMP. LEON DE CAIGNY, Duluth, Minn. Filed Feb. 12, 1923. Serial No. 618,461. 2 Claims. (Cl. 24—125.)



1. A cable clamp of the character described comprising a substantially rectangularly shaped block having a transverse cable engaging hole through one end thereof, cable receiving channels longitudinally of the block diverging towards the transverse hole and about same, and a tapered key within one of the channels for impinging the cable therein, substantially as described.

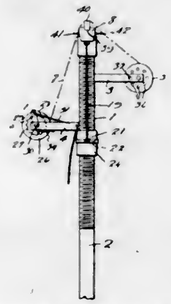
1,473,145. SLICING MACHINE. WILLIAM H. DONALD, Cincinnati, Ohio, assignor of one-half to Frederick A. Knowles, and one-fourth to Alanson A. Knowles, both of Cincinnati, Ohio. Filed Sept. 17, 1921. Serial No. 501,248. 15 Claims. (Cl. 146—102.)



1. In combination with a stationary support, a cutter, and cutting mechanism, a carrier, a guide-bar fixed on said support, means on said carrier guidingly engaging with said guide-bar, a rack fixed on said carrier, a yoke on said support, a pinion mounted on said yoke and meshing with said rack, feeding mechanism operatively related to said cutting mechanism and said pinion, and

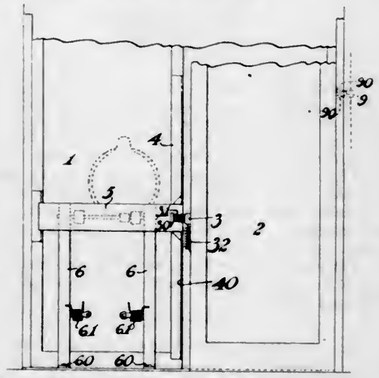
means on said carrier extending across a minor part of said support, to engage an object and drag said object along said support toward said cutter, whereby said object meets said cutter.

1,473,146. CLEANING DEVICE. GEORGE J. FORCIER, Cleveland, Ohio. Filed Aug. 4, 1922. Serial No. 579,653. 5 Claims. (Cl. 15—228.)



1. A cleaner comprising a handle rod having a cross bar at the end, a roll at each side of the rod, a cloth wound on the rolls and extending over the cross bar, and means to wind the cloth from one roll to the other, the cross bar being provided with a pad of absorbent material over which the cloth runs to saturate the latter with a cleaning agent carried by the pad.

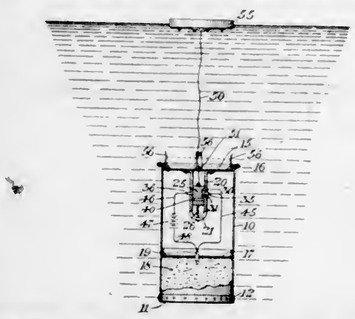
1,473,147. ELEVATOR SAFETY DEVICE. WILLIAM H. FOYE, Seattle, Wash. Filed Apr. 17, 1922. Serial No. 554,013. 20 Claims. (Cl. 187—49.)



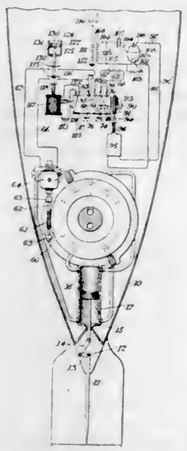
5. A safety device for elevators comprising a stop finger and a horizontally extending bar mounted for movement toward and from the car, one of said parts being carried by the gate and the other by the car and vertically positioned to be in horizontal alinement when the car is leveled with the landing, and means controlled by the power controller for moving said bar into the path of travel of the finger when the controller is in power-on position.

1,473,148. SUBMARINE MINE. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Aug. 9, 1917, Serial No. 185,305. Renewed Apr. 20, 1923. 2 Claims. (Cl. 102—3.)

1. In a submarine mine, in combination a casing, explosive material arranged within said casing, a carrier fixed in said casing, a piston slidably mounted in said carrier, a pair of terminals secured to said carrier, an electric circuit including said terminals, a battery and a fuse arranged to fire said material, a bar of conducting material carried by said piston and arranged to bridge said terminals in one position of said piston, a float detachably carried by said casing and arranged to release upon submergence of said casing, and means connecting said piston and float whereby said piston is moved to firing position when said casing reaches a predetermined depth.



1,473,149. SYSTEM FOR CONTROLLING MOVING BODIES FROM A DISTANCE. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Aug. 3, 1918, Serial No. 248,124. Renewed Aug. 10, 1921. Serial No. 491,288. 14 Claims. (Cl. 114—21.)

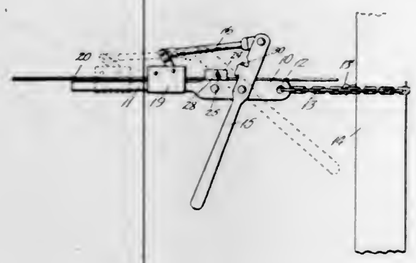


1. A system for controlling the operation of dirigible bodies at a distance by radiant energy having in combination a movable body to be propelled, a steering mechanism, means including a motor and circuit therefor for operating said steering means in either direction, means responsive to radiant energy transmitted from a distance for varying the direction of current at will in said motor circuit, and means for closing said circuit a predetermined interval after the responsive means receives a signal.

1,473,150. WIRE STRETCHER. RICHARD V. JOHNSON, Meridian, Tex. Filed May 27, 1922. Serial No. 564,064. 3 Claims. (Cl. 254—73.)

1. In a wire stretcher, an elongated carrier bar, a wire stretching member slidable on said bar, a handle lever carried by said bar and connected with said member for actuating the same, gripping means located on said bar

inwardly of said member, said means including a spring-pressed pawl coacting with serrations on the upper edge of said bar for preventing the wire from slipping when not

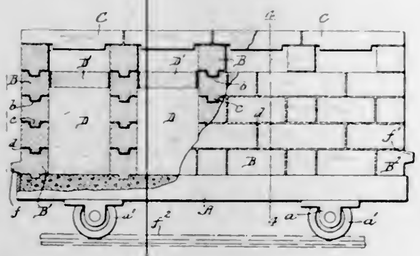


being stretched by said member, means carried by the handle lever for disengaging the pawl with the wire when said member is slid inwardly, and means for securing the bar to a fixed support during operation.

1,473,151. EYEGLASS AND METHOD OF MAKING THE SAME. CLEO H. KIDWELL, New Brighton, N. Y., assignor to John Manning Van Heusen, Boston, Mass. Filed June 13, 1922. Serial No. 568,040. 16 Claims. (Cl. 88—48.)

1. In the manufacture of eyeglasses, the method of rendering guard liners or grips made of fabric or similar material non-fraying, which consists in the impregnation of the said guard liners or grips or of the portions thereof to be rendered non-fraying with a binding material.

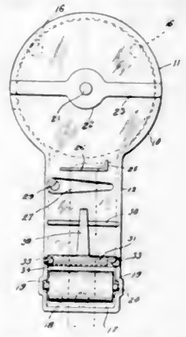
1,473,152. TUNNEL KILN CAR. HARRY D. LILLIBRIDGE, Zanesville, Ohio, assignor to American Encaustic Tiling Co., Ltd., New York, N. Y., a Corporation of New York. Filed Mar. 21, 1921. Serial No. 454,037. 6 Claims. (Cl. 25—142.)



1. In a vehicle of the class described, a load-carrying structure embodying bricks or slabs provided on their meeting faces with mortises and tenons, said bricks or slabs being interlocked and bonded to preclude dislodgment of the bricks under the stresses of the load and upon disintegration, more or less, of the bonding medium.

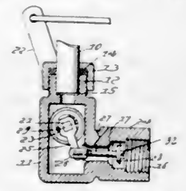
1,473,153. SEALING-TAPE HOLDER AND MOISTENER. LOUIS G. MASSICOTTE, Providence, R. I. Filed Aug. 10, 1922. Serial No. 580,895. 7 Claims. (Cl. 91—145.)

1. A machine of the character described comprising a hollow body having a cooperating radially-extending hollow arm forming a water reservoir, said arm having an opening through its upper wall near its outer end, a moistening roll mounted in said opening, a center spindle in said body on which the roll of gummed tape is rotatably



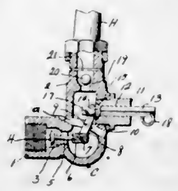
mounted to lie in a plane parallel with that of the face of the body, a guide for leading the tape with a quarter turn to said moistening roll, and a cutter edge adjacent the roll.

1,473,154. AUTOMATIC LIQUID-LEVEL GAUGE VALVE. CHARLES F. MATTINGLY, St. Louis, Mo., assignor to Mattingly Automatic Valve Co., St. Louis, Mo., a Corporation of Missouri. Filed Mar. 8, 1922. Serial No. 542,056. 4 Claims. (Cl. 73—54.)



1. The combination with a gauge glass, of a valve casing therein adapted to be connected to a reservoir at the end opposite its connection to the gauge glass and having a valve seat at this end, a reciprocable valve adapted to close against said seat, a rotatable stem entering the casing and operatively connected to said valve to operate it, the area of the passage in which the valve operates being smaller than the area of the gauge glass, and a bushing through which said stem passes and by which it is oscillatably supported, the bushing having a conical valve seat opening upon the interior of the casing and the stem having a conical valve bearing at all times against said seat.

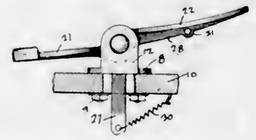
1,473,155. NONRETURN VALVE. CHARLES F. MATTINGLY, Maplewood, and CECIL F. MONTGOMERY, St. Louis, Mo., assignors to Mattingly Automatic Valve Co., St. Louis, Mo., a Corporation of Missouri. Filed May 29, 1922. Serial No. 564,371. 6 Claims. (Cl. 277—42.)



1. A valve of the class described comprising a casing, one end of which being adapted for communication with a source of fluid under pressure, the bore of said casing

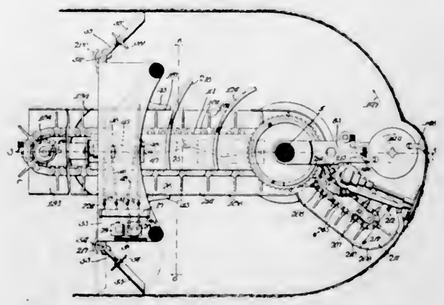
inwardly of its opposite ends being provided with internal valve seats, the portion of the bore of the casing inwardly of the seat in the induction end of the casing constituting a pressure chamber, a gravity seating valve co-acting with the second internal valve seat, the pressure within the casing serving to lift said valve from its seat, a wall of the casing being provided with a port in communication with the pressure chamber of the casing and with the atmosphere, a valve co-acting with the port, a valve co-acting with the internal valve seat in the induction end of the casing, and means within the casing for connecting said last named valves for movement in unison but in reverse directions, one of the valves being in open position when the other is in closed position.

1,473,156. ACCELERATOR PEDAL. JESSE R. MICKELSEN, San Leandro, Calif. Filed Apr. 13, 1922. Serial No. 552,354. 3 Claims. (Cl. 74—81.)



1. A device, such as described, comprising a base having a standard thereon; a shaft mounted in said standard; a friction disc mounted on said shaft adjacent said base standard; a plate, having heel and toe portions thereon and a depending lug, pivoted therethrough on said shaft; a depending projection on said plate adapted to be secured to the throttle valve of an internal combustion engine; and spring means mounted on said shaft and pressing against said base standard for maintaining a frictional contact between said friction disc and the plate lug and base standard.

1,473,157. LOADING MACHINE. EDMUND C. MORGAN, New York, N. Y.; Olive Eugenie Morgan executrix of said Edmund C. Morgan, deceased. Original application filed Apr. 30, 1913, Serial No. 764,487. Divided and this application filed May 13, 1919. Serial No. 296,867. 93 Claims. (Cl. 198—11.)



8. In a loading machine, the combination with a conveyer adapted to rest approximately flat on the floor of a mine chamber, of gathering mechanism connected to said conveyer as a separate unit but maintained in delivery communication therewith, said gathering mechanism being mounted to having a swinging movement on an upright axis, means for operating said gathering mechanism including swinging movement thereof on said upright axis to gather material from the floor and deliver the same to said conveyer adjacent the floor, and means for operating said conveyer to transfer toward loading position the material received from said gathering mechanism during the arcuate swinging movement of the latter.

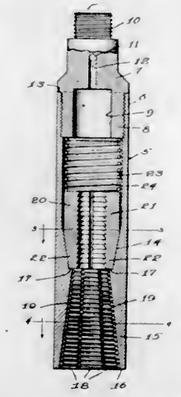
21. In a loading machine, the combination with a main frame, of a main conveyer mounted thereon, a swinging supplemental frame mounted on said main frame, gathering means comprising a supplemental conveyer operatively connected to said main conveyer, and means connected between said gathering means and said supplemental frame to effect dragging of the gathering means on the ground over an arcuate path of travel to gather material and convey the same to such main conveyer during the swinging of said supplemental frame.

25. In a loading machine, the combination with a supporting frame, of loading mechanism mounted thereon, means on said frame at a plurality of spaced-apart points for lifting the machine to permit a wheeled truck to be moved thereunder, and means for controlling the operation of said lifting means to cause the latter to engage the ground, lift the machine and lower the same onto said truck after the latter has been moved under the machine so that said machine may be transported by means of said truck.

42. In loading apparatus, the combination with a vertical support, of an arm pivoted to said support and slidable vertically along the same intermediate the ends thereof, a conveyer unit pivotally connected to said arm, and means for swinging said arm to effect the swinging of said conveyer unit at the adjusted elevation of said arm relatively to said support.

45. In loading apparatus, the combination with a supporting frame, of a main conveyer thereon, a supplemental conveyer pivotally connected to said frame for movement over a complete circle, and means for permitting free movement of said supplemental conveyer over said main conveyer.

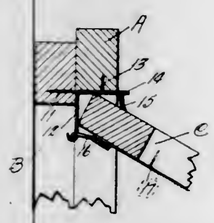
1,473,158. MULTIPLE FISHING TOOL. HOBART M. MYRACLE, Haynesville, La. Filed Aug. 19, 1922. Serial No. 582,996. 3 Claims. (Cl. 294—102.)



1. A fishing tool comprising an elongated hollow body having the lower end of its bore tapered to define a socket, the smaller diameter of said socket being at the upper end thereof, the wall of said socket being provided therealong with a spiral tooth, a stop formed at the inner end of the tapered enlargement, that portion of the tubular body member inwardly of the stop being formed into a tapering socket, a movable sectional jaw disposed within said socket, and normally engaged with the stop, a detachable head having one end thereof reduced and threaded beyond the opposite end portion of the body member, said reduced end having a recess smaller in diameter than the diameter of the body

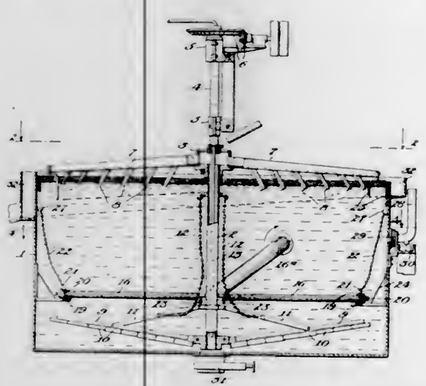
member, said head member having a transversely extending passage in the outer end portion thereof, a second passage communicating with said passage and the recess of the head, and a coil spring engaged with the inner end face of the head and at its opposite end with the sections of the movable jaw.

1,473,159. SCREEN HANGER. SAMUEL I. PATTON, Dallas, Tex., assignor of one-third to Calvin P. Patton, Dallas County, Tex. Filed Aug. 5, 1922. Serial No. 579,796. 3 Claims. (Cl. 16—172.)



1. In a screen hanger, a substantially flat body portion, a horizontal spur projecting from one end, an angular tooth formed on one side of said body portion with its point directed upwardly and an elongated hook adapted to depend below the blind stop of a window frame and to receive a resilient hinge member on the top of a screen frame for normally holding said screen frame in an upright position against said blind stop.

1,473,160. APPARATUS FOR THE TREATMENT OF LIQUIDS AND LIQUID PULPS. HALLET R. ROBBINS, Fierro, N. Mex. Original application filed Oct. 21, 1919, Serial No. 332,345. Divided and this application filed Dec. 21, 1920. Serial No. 432,291. 13 Claims. (Cl. 261—121.)



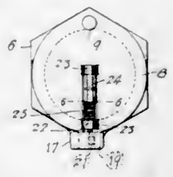
1. In a flotation concentration apparatus, a vessel for containing pulp, air dischargers substantially uniformly distributed throughout the horizontal cross-sectional area of said vessel at a level intermediate the bottom and top thereof, said air dischargers being separated by spaces for the passage of pulp, and pulp dischargers substantially uniformly distributed along a line extending across said vessel at a level below the upper surface of the pulp and above said air dischargers.

1,473,161. CLOTHES CONTAINER. VERNA BOSTON ROGERS, Canutillo, Tex. Filed Dec. 14, 1922. Serial No. 606,906. 5 Claims. (Cl. 296—37.)



1. The combination of a vehicle body having its rear end provided with spaced backs defining a transversely extending compartment, pairs of tubular guides secured to the opposed sides of said backs, and U-shaped supports having attaching stems snugly received within said guides, the connecting portions of said U-shaped supports being formed with openings to receive the attaching hooks of clothes hangers.

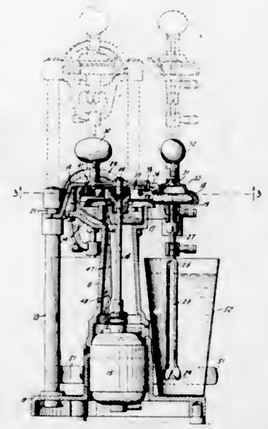
1,473,162. QUICK-ACTING CLOSURE FOR RECEPTACLES. BRIGHT SAGE, East Orange, N. J. Filed Nov. 17, 1921. Serial No. 515,795. 3 Claims. (Cl. 220—33.)



1. A device of the character described including a body portion having an opening therethrough and adapted to be fitted into an opening in a receptacle or the like, said body portion having a flat outer end, a cover having a flat surface frictionally engaging said flat end of the body portion, said cover and body portion having a cooperating recess and projection, a headed pivot stud for pivotally connecting said cover at one side of said opening to said body portion to swing transversely of said opening to close and open the same, and a spring interposed between said cover and the head of said pivot stud to maintain said cover in engagement with said body portion and automatically cause engagement of said recess and projection when the cover is swung into closed position.

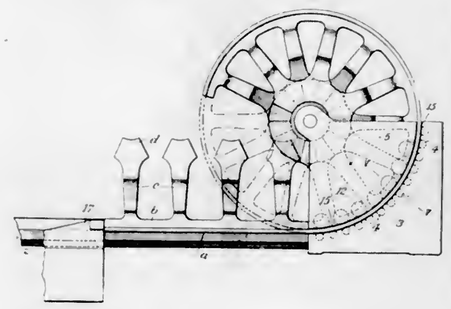
1,473,163. DRINK MIXER. ELMER SAS, New York, N. Y. Filed July 8, 1922. Serial No. 573,565. 3 Claims. (Cl. 259—131.)

1. A drink-mixer, comprising a main frame, an electric motor thereon, a friction disk driven by said motor, a plurality of heads slidably mounted on said frame, an agitating element rotatably mounted on each head, a wheel operatively connected with each agitating element adapted to be frictionally driven by said disk, a switch



in the circuit of said motor, and oscillatable means carried by each head for holding its wheel, at will, in frictional contact with said disk, closing said switch when turned to holding position.

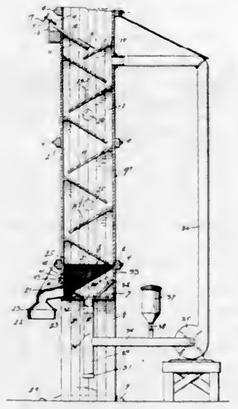
1,473,164. MANUFACTURE OF METAL WHEELS. CHARLES SCHENCK and LEWIS FINE, Bethlehem, Pa. assignors to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed June 17, 1920, Serial No. 389,755. Renewed Mar. 31, 1923. 5 Claims. (Cl. 153—3.)



1. In apparatus for forming metal wheels from flanged blanks with integral spokes, an anvil in the shape of a quadrant, dies spaced apart from the said anvil and from each other, having a quadrant-shaped periphery, antifriction means in the quadrant faces of said anvil and dies, and means for forcing the flanged portion of the wheel blank between the quadrant faces.

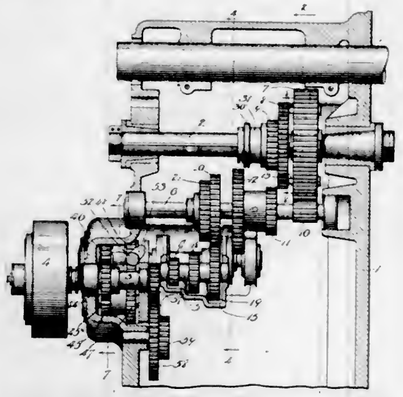
1,473,165. SEED-CONDITIONING APPARATUS. FREDERICK STEIGMEYER, Westhaven, Calif. Filed Dec. 4, 1922. Serial No. 604,816. 9 Claims. (Cl. 83—28.)

1. A seed conditioning apparatus comprising a tower through which seed is adapted to travel by gravity, the lower portion of the tower being provided with a discharge, means for creating a down draft of air



through the tower, and means for mixing a seed treating material with the air before the air enters the tower.

1,473,166. GEARING. GUSTAF DAVID SUNDSTRAND, Rockford, Ill., assignor to Rockford Milling Machine Company, Rockford, Ill., a Corporation of Illinois. Filed Jan. 31, 1919. Serial No. 274,158. 26 Claims. (Cl. 74—57.)

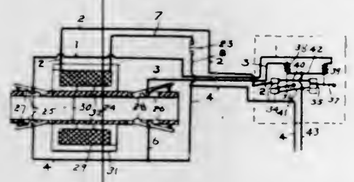


1. The combination of a pair of shafts, means adapted to connect said shafts so that one shaft may be driven from the other at a variety of speeds, a pivotally mounted tumbler having a shaft with a plurality of gears thereon of different sizes, a plurality of gears on one of said pair of shafts slidable into and out of position to be operatively engaged by the gears in said tumbler, means for driving the tumbler shaft, means for sliding said slidable gears, and means for swinging said tumbler.

1,473,167. ELECTRIC-DRIVE MECHANISM. CARL S. WEYANDT, Pittsburgh, Pa., assignor to Central Electric Tool Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 20, 1919. Serial No. 339,328. 5 Claims. (Cl. 172—126.)

1. In an electric hammer, current supply lines, a single solenoid, a magnetic core reciprocable therein,

and contacts closable by the core at the end of each stroke of the core to effect the next stroke, and openable



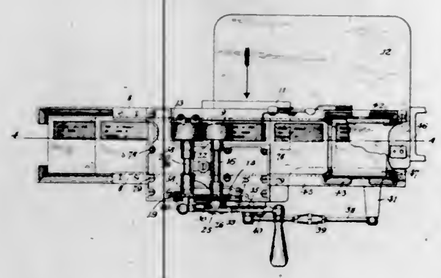
by the core when the latter reaches the central part of the solenoid.

1,473,168. CAGE FOR ROLLER BEARINGS. SVEN GUSTAF WINGQUIST, Gottenborg, Sweden, assignor to Aktiebolaget, Svenska Kullagerfabriken, Gottenborg, Sweden, a Corporation of Sweden. Original application filed Sept. 9, 1919, Serial No. 322,753. Divided and this application filed Dec. 6, 1921. Serial No. 520,400. 6 Claims. (Cl. 64—62.)



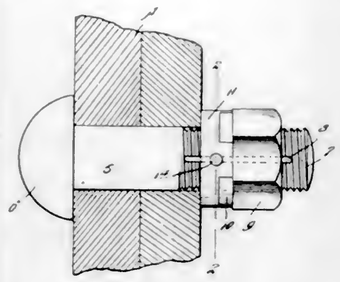
6. In a roller bearing, an inner ring, an outer ring, rows of rollers interposed between said rings, the rings being formed with separate races for each row of rollers, the races for one row alternating axially with the races for another row, a roller cage, consisting of an annular, folded ribbon, the folds of which are adapted to receive the ends of the rollers, with tongues formed on the ribbon adjacent to one end of the rollers and bent over the other ends of the rollers.

1,473,169. ADDRESS-PRINTING MACHINE. EDWIN D. BELKNAP, Spring Lake, N. J. Filed Mar. 22, 1922. Serial No. 545,659. 17 Claims. (Cl. 101—52.)



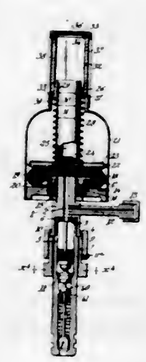
1. In a card feeding apparatus for address-printing machines employing stencilling cards, the combination of a card magazine, a set of sliding claws adapted to pull out the bottom card in the magazine, and means for reciprocating said claws, said claws being provided with raised projections on their outer ends serving to hold the forward edge of the next card in the stack slightly above the horizontal plane of the upper surface of the card in the control of the claws while the claws are performing the final half of their feeding stroke.

1,473,170. NUT LOCK. GEORGE BERTHOLD, Bridgeville, Pa. Filed Feb. 27, 1923. Serial No. 621,509. 2 Claims. (Cl. 151—2.)



1. In an article of the class described, a bolt headed at one end and screw threaded at its opposite end, said screw threaded end being formed with a relatively elongated slot, a washer slidably disposed upon said bolt, a nut upon the bolt, interlocking means between said nut and washer, and a locking pin engaging through alined openings in the washer as well as through the said slot in the bolt for preventing a reverse turning movement of said nut.

1,473,171. PRESSURE GAUGE. JUNIUS A. BOWDEN, Los Angeles, Calif., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 21, 1918, Serial No. 223,837. Renewed Apr. 13, 1923. 5 Claims. (Cl. 73—3.)

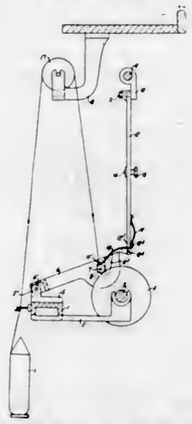


1. In a pressure gauge, a body, a rubber air chamber secured at one end to the body and being imperforate except at such end, said air chamber having an integral boss projecting from said chamber at its imperforate outer end, a gauge bar, means for securing the said gauge bar to the boss, and means for resisting outward movement of the gauge bar.

1,473,172. CHEESE-WINDING MACHINE. THOMAS A. BOYD and HAROLD A. BOYD, Shettleston, Glasgow, Scotland. Filed Feb. 27, 1922. Serial No. 539,563. 4 Claims. (Cl. 242—18.)

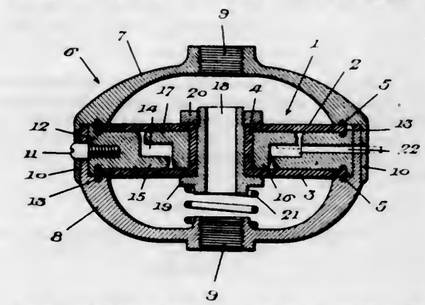
1. In a cheese winding machine, in combination, a traverse lever mounted to rock on a stationary pivotal axis at one end and a thread guide operated by said

lever and so arranged as to be movable away from the axis of the cheese as the diameter of the cheese increases to bring the point of thread delivery nearer to



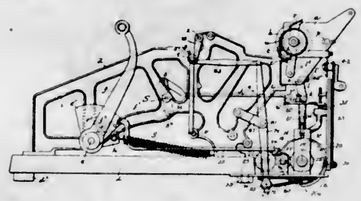
said stationary axis to reduce the length of traverse of yarn on the cheese, and thus to form bevelled ends upon the cheese.

1,473,173. DIFFERENTIAL DIAPHRAGM. FREDERIC H. BRINKERHOFF, Clinton, Iowa. Filed May 22, 1919. Serial No. 298,955. 8 Claims. (Cl. 137—157.)



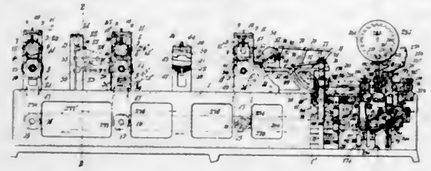
3. A diaphragm of annular form and U-shaped radial cross section with a central opening through the diaphragm, and a collar fitting snugly in the diaphragm around the central portion thereof and having portions of different diameters bearing against the opposite sides of the diaphragm.

1,473,174. ADDING MACHINE. THOMAS E. CHERRY, Boston, Mass. Filed Mar. 16, 1922. Serial No. 544,085. 8 Claims. (Cl. 235—58.)



1. An adding machine comprising in combination a platen carriage, means including a step-by-step rotated carriage cam, and a lever cooperating therewith to reciprocate the carriage, a shiftable converting shaft adapted to occupy either an adding or a non-adding position, a latch detachably engageable with the converting shaft to support the latter, and automatic means actuated by the rotation of the carriage cam for disengaging the latch from the converting shaft.

1,473,175. PACKAGING MACHINE. MERVIN B. CANNON, Cincinnati, Ohio. Filed Apr. 2, 1920. Serial No. 370,775. 98 Claims. (Cl. 93—2.)



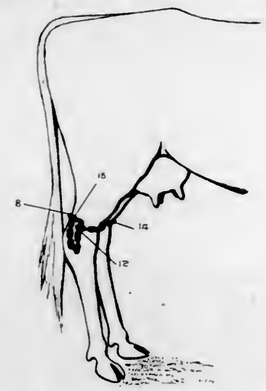
1. In a machine of the character described, means for feeding successive pieces of sheet material, means for feeding successive objects to the respective pieces, means for compressing the pieces around the objects, and means acting on said pieces only after their compression, for securing the pieces in their compressed condition.

64. In a machine of the character described, material-rolling means, means to apply tape to the rolling material, and a variable-speed operative connection between the means.

74. The process of wrapping consisting of applying an object to a wrapper together with elements astraddle of the wrapper edge in rotary motion, initially rolling the wrapper around the object, and then completing the rolling and securing the wrapper in its rolled condition.

93. The process of packaging consisting of feeding and severing pieces of sheet material, feeding articles to said material, and then forming said material into plurally wrappers about the respective articles fed thereto.

1,473,176. COW HOPPLE. HARDY H. COLSON, Elsie, Nebr. Filed July 8, 1922. Serial No. 573,576. 5 Claims. (Cl. 119—128.)



1. A cow hopple comprising a pair of leg-engaging clasps, a chain connected to one clasp, said clasps having depending hooks for receiving and holding links of said chain.

1,473,177. COMBINATION BOLT AND NUT RETAINER. JAMES COYNE, Pittsburgh, Pa. Filed Sept. 21, 1921. Serial No. 502,249. 2 Claims. (Cl. 151—29.)

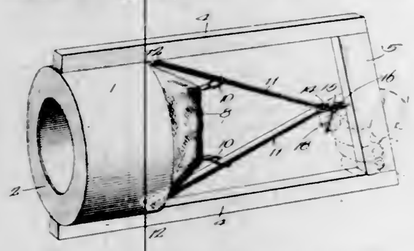
1. In combination, a hinged connection of the character described having a hinge-bolt and nut; unitary locking means to simultaneously prevent the rotation and accidental disengagement of said bolt and nut; said locking

means being substantially S shaped and having two parallel and adjacent sides traversed by said hinge-bolt;



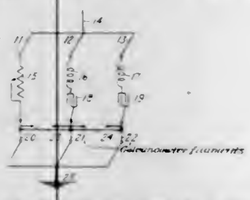
the outer one of said parallel sides having an elongated aperture and the other parallel side having a slot; said aperture and slot being engaged by said hinge-bolt.

1,473,178. PNEUMATIC TOY. WALTER R. DRAY, Chicago, Ill. Filed Dec. 16, 1921. Serial No. 522,872. 4 Claims. (Cl. 46—59.)



1. A pneumatic toy having a chamber with a restricted opening at the front, a flexible diaphragm at the rear of said chamber, a resilient member behind said diaphragm, the ends of said resilient member being connected to said chamber for causing the intermediate portion of said resilient member, when released, to strike the rear surface of the diaphragm, and a manually controlled trigger for releasably holding the intermediate portion of the resilient member drawn backward from said diaphragm.

1,473,179. METHOD FOR ELIMINATING UNDESIRED IMPULSES. REGINALD A. FESSENDEN, Chestnut Hill, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed Nov. 10, 1920. Serial No. 423,184. 1 Claim. (Cl. 250—8.)



In a system of signaling, the method of eliminating disturbing noises, which consists in receiving the disturbing noises more effectively than the signals which it is desired to receive, on one portion of the receiving system, recording the indications as received, and receiving said disturbing noises and desired signals in a more equally effective manner on another portion of said receiving system, and recording the indications so received, and detecting and eliminating the disturbing effects by comparison of said records.

1,473,180. TELEPHONE COVER. MARY ROBERTS FOSTER, Washington, D. C. Filed July 29, 1921. Serial No. 488,319. 1 Claim. (Cl. 41—10.)

A cover comprising an angle shaped hollow upper section having the free terminus of its horizontal leg inturned to form a reduced lateral opening, the lower terminus of the vertical leg of said section providing a vertically disposed opening, a reinforcing element secured to the inturned portion of the horizontal leg of said section and surrounding said lateral opening, a vertically disposed hollow cylindrical intermediate section having its upper end extending into said vertical opening and connected to said upper section, a flaring base section having its top formed with a vertical opening into which extends the lower end of the intermediate section, the said intermediate section being secured at its lower end

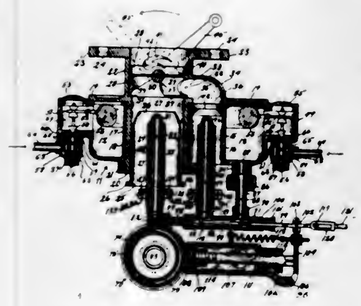


to the base section, said upper section having its vertical leg split for a portion of its length, said intermediate and said base sections being split throughout, means for detachably connecting the sides of the split portion of the upper section in overlapping position, means for detachably connecting the intermediate section overlapped at the split portion thereof, and means for detachably connecting the base overlapped at the split portion thereof.

1,473,181. PASTE COMPOSITION. CHARLES FUER, Sheridan, Wyo. Filed Oct. 2, 1922. Serial No. 591,943. 1 Claim. (Cl. 87—17.)

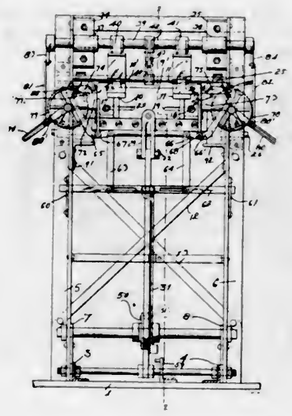
An uncooked paste composition adapted for use when mixed with cold water, comprising clay, syrup, sal-soda and starch in powder form and in the proportions of two parts of clay to one part of syrup to form the major portion of the composition, a minute part of sal-soda, and starch.

1,473,182. CARBURETOR. WILLIAM M. GENTLE, Los Angeles, Calif. Filed Aug. 13, 1917. Serial No. 186,081. 2 Claims. (Cl. 261—18.)



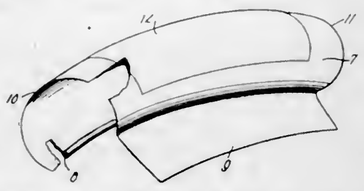
1. In a carburetor; two fuel supply chambers for heavy and light fuel respectively; a low speed nozzle normally in communication with the supply of light fuel; and a valve which may be operated to shut off the connection between the low speed nozzle and the supply of light fuel and to open the connection to the supply of the other fuel.

1,473,183. BOX-GLUING MACHINE. RAOUL J. GRUENBERG, San Francisco, Calif., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of Delaware. Filed May 29, 1922. Serial No. 564,289. 9 Claims. (Cl. 93—36.)



1. A box forming machine comprising a pair of end flap supports, rollers to push two of the side flaps of a box blank over said supports, means to supply said rollers with glue, means to thereafter push the bottom flap over the two glued flaps, and means to press all of the flaps together to secure them together.

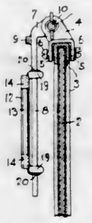
1,473,184. TIRE PATCH. TRUVERTON J. JACKSON, Columbus, Ohio. Filed Mar. 21, 1923. Serial No. 626,639. 2 Claims. (Cl. 152—24.)



2. Reinforcing means for the interior of a tire casing comprising a patch of thick rubberized material of a length sufficient to extend entirely around the inner tube and to overlap to a substantial degree, one of said overlapping ends being provided with a length of flexible stiffening means imbedded in the rubberized material and being located adjacent and substantially parallel to that end of the material, the end of said material overlapping the end containing said stiffening means being considerably thinner than the main body portion of said material, the remaining edges of the material being tapered to a thin edge, the side of said patch next to the casing comprising a substantial layer of semi-cured rubber.

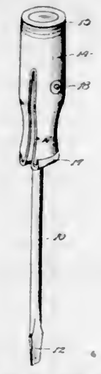
1,473,185. GLARE SCREEN. JAMES J. JACOBS, Duquesne, Pa., assignor of one-fourth to Rolla B. Bostwick, one-fourth to John Ring, and one-fourth to William Salters, all of Duquesne, Pa. Filed June 30, 1922. Serial No. 571,884. 4 Claims. (Cl. 296—97.)

2. A glare screen for automobiles and other vehicles comprising a three-sided frame composed of a single sheet metal stamping bent to form a channel to receive a sheet of transparent material, and having integral supporting lugs and integral fingers formed at the ends of the arms of said frame and adapted to be bent along the edge of said transparent sheet for securing said transparent sheet against edgewise movement therein,



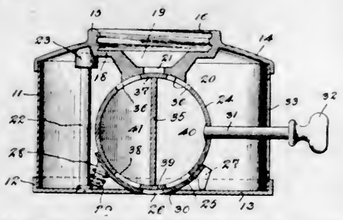
a rigid frame having arms extending through said supporting lugs, and means for adjustably securing said lugs to said arms.

1,473,186. COMBINATION TOOL. EMIL JOHNSGAARD, Fairview, Mont. Filed Apr. 18, 1922. Serial No. 554,914. 4 Claims. (Cl. 145—61.)



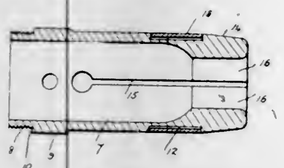
1. A tool of the character described including a tool shank having a tapered inner end, a handle pivotally mounted upon the inner end of the shank, and a V-shaped strip carried by the handle to form coacting jaws straddling the tapered inner end of the shank longitudinally thereof and gripping the shank for normally holding the handle in alinement with the shank.

1,473,187. DISPENSING DEVICE. JOHN G. KAEFER, Oakley, Ohio. Filed Dec. 13, 1921. Serial No. 522,010. 5 Claims. (Cl. 221—106.)



1. In a device of the character described, a cylindrical casing element, a top and bottom fitting respective parts of the casing for retention by compression, assembly fastenings connecting the top and bottom, the bottom having a central discharge opening, and the top having an inlet port, a rocking measuring device having ports therein positioned for alternative registration with respective first named ports, and means to move the measuring device for alternate registration of the first and second named ports.

1,473,188. FEED COLLET. ARTHUR M. KRAMP, LUDWIG F. PETERS, and EDWARD J. RATHSACK, Milwaukee, Wis. Filed Mar. 28, 1922. Serial No. 547,465. 2 Claims. (Cl. 29—62.)



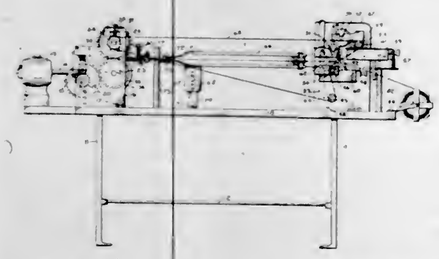
1. A feed collet, comprising a tubular body having a screw-threaded portion at one end for securing it in place, said body having longitudinal slits in its other end portion which divide it into spring arms having tapering portions and jaws at their free ends, said arms having also an external circumferential groove intermediate of their ends and behind their tapering portions, and a reinforcing spring for the said spring arms sprung over their said tapering portions into engagement with the said circumferential groove.

1,473,189. PROCESS FOR MAKING HAND WHEELS. ANTON KNUBEL, deceased, by Felix Köster, administrator, Munster, Germany, assignor to Helene Knubel, Munster, Germany. Filed Dec. 31, 1920. Serial No. 434,403. 7 Claims. (Cl. 18—59.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



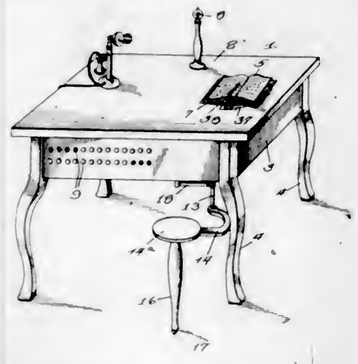
1. The process herein described of making handwheels having a hollow celluloid rim and spokes of different material, consisting in first heating the hollow rim to soften it, then placing it in a form or mold with the inner face of the rim abutting the ends of the spokes, then admitting fluid to the interior of the rim to expand the same around the ends of the spokes so that said ends of the spokes will extend into depressions in the rim, and then permitting the rim to harden to thus interlock the rim with the ends of the spokes.

1,473,190. FOLDED INDEX-STRIP MACHINE AND PROCESS. EDWIN G. LANG, Bayside, N. Y., assignor to The E. G. Lang Manufacturing Company, New York, N. Y., a Corporation of New York. Filed Sept. 6, 1921. Serial No. 498,791. 8 Claims. (Cl. 93—1.)



1. In a machine the combination of a series of gears adapted to operate a pair of pressure rollers, mean for folding an outside member over a core member, means for feeding said folded members, means for preparing the sticking of said members together, means for sticking said members together, and automatic means for cutting the strips when so stuck into the desired lengths.

1,473,191. TELEPHONE SUPPORT. ABRAHAM LEVIN, Dallas, Tex. Filed Dec. 30, 1922. Serial No. 610,022. 19 Claims. (Cl. 45—75.)



1. In a telephone support the combination of a seat, means for holding the seat in an inoperative position, automatic means for positioning the seat in front of the support when the seat is released, an index including folding leaves on the support, and electric means for simultaneously releasing the seat holding means and actuating the leaves of the directory.

1,473,192. ORE-CONCENTRATING PROCESS. ROYER LUCKENBACH, Brooklyn, N. Y., assignor to Luckenbach Processes, Inc., San Francisco, Calif., a Corporation of Nevada. Filed Mar. 6, 1920. Serial No. 363,864. 3 Claims. (Cl. 83—85.)

1. The process of concentrating ore by froth flotation, which comprises mixing finely divided ore with water to form a pulp, introducing the reaction product of wood pitch and commercial sulphuric acid, and the acidified reaction product of pitch and caustic soda to the pulp, aerating the pulp to form a froth to which the mineral content of the ore will adhere, and separating the mineralized froth from the pulp.

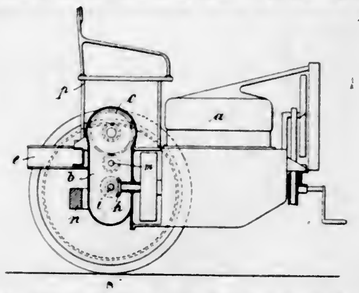
1,473,193. TREATMENT OF SULPHIDE ORES CONTAINING LEAD AND ZINC. PHILIP ALEXANDER MACKAY, London, England. Filed Aug. 23, 1920. Serial No. 405,304. 8 Claims. (Cl. 75—18.)

1. Method of extracting lead in the form of sulphate from sulphide ores containing lead and zinc sulphides, in which the ore is crushed and the lead constituent of the ore converted to lead sulphate by subjecting the crushed ore to the action of some sulphuric acid and sulphur trioxide present in such quantities as to initiate an exothermic reaction thereby providing all the heat necessary for the operation, the lead sulphate thus obtained being subsequently separated from the zinc sulphide which remains unchanged during the reaction.

1,473,194. MOTOR CAR. FRITZ MAYER, Ulm-on-the-Danube, Germany, assignor, by direct and mesne assignments, to John Keller, Oberlenningen-Teck, Wurttemberg, Germany. Filed July 24, 1920. Serial No. 398,711. 1 Claim. (Cl. 180—42.)

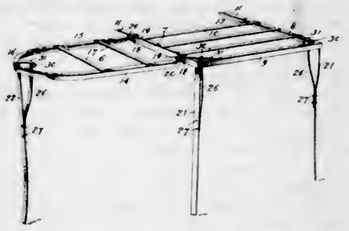
In motor vehicles the combination with the vehicle frame and the front steering wheels mounted thereon, of the motor, the motor shaft, the motor casing, a lower gear shaft, means for directly driving the same from the

said motor shaft, an intermediate speed-change gear-shaft, a differential gear, an operative connection betwen the said gear and the said intermediate speed-change gear-shaft, cardan-shafts driven by said differential gear for driving the said front steering wheels and passing above



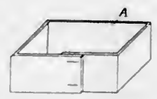
the said vehicle frame, all the said shafts being transversely arranged, and a casing enclosing the said lower gear shaft, the said speed-change gear-shaft and the said differential gear, the said casing and the said motor casing forming one integral whole.

1,473,195. FOLDING WASHBENCH. PETER C. MOSSNER, Saginaw, Mich. Filed Nov. 5, 1920. Serial No. 422,108. 4 Claims. (Cl. 68—35.)



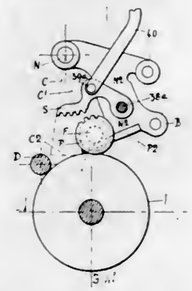
1. In an apparatus of the class described, a support, a bench comprising a top section having a hinge connection at one side to one side of the support to swing in a vertical plane, a folding supporting leg connected with the outer part of said top section, a second top section hinged at one end to one side of the first mentioned top section, said hinge connection being at right angles to the hinged connection of the first mentioned top section with the support, and a folding leg connected with the outer part of the second top section, said second top section with its leg folded thereupon being adapted to fold upon the other section, and the latter top section with its leg folded thereagainst, together with the second top section, being adapted to fold flat against one side of said support.

1,473,196. BOX, PACKING CASE, AND THE LIKE. JOHN I. NASMITH, Eltham, London, England. Filed July 18, 1922. Serial No. 575,914. 6 Claims. (Cl. 217—12.)



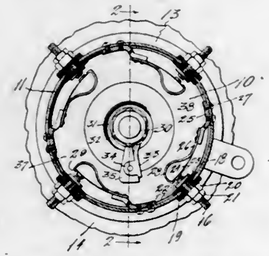
1. A box or packing case comprising a rectangular open body frame forming four upright box wall portions, abutments being provided at opposite end portions of the body frame; top and bottom members formed to close the top and bottom of the body frame, and having end portions formed to engage said abutments, said members being adapted to be flexed to decrease the distance between its end portions, and straightened to increase said distance, the arrangement being such that when said members are flexed, their end portions are engageable with said abutments, and when the members are straightened, their end portions are pressed in opposite directions against the abutments, whereby the said body frame is put under tension, and said members are put under compression; and securing means releasably confining said members in their straightened form.

1,473,197. COMBING MACHINE. JOHN W. NASMITH, Manchester, England. Original application filed Mar. 30, 1922, Serial No. 548,209. Divided and this application filed Jan. 17, 1923. Serial No. 613,203. 1 Claim. (Cl. 19—120.)



In a combing machine of the Nasmith type, a swinging nipper, a feed roller mounted on the lower jaw thereof, a toothed pinion on the end of the said roller, a toothed sector to engage and disengage with the said pinion and means to operate the sector so that it will engage the pinion and make the required feed and remain in gear therewith when the nipper commences to recede from the detaching rollers to turn the feed roller backwards until a desired amount of the previously fed material has been drawn back into the nipper and then disengage.

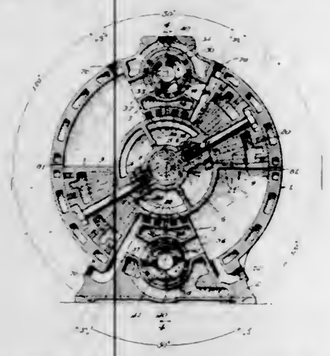
1,473,198. CIRCUIT-CLOSING DEVICE. RAY G. PARKER, Dallas, Tex. Filed Jan. 31, 1920. Serial No. 355,522. 1 Claim. (Cl. 200—27.)



In a circuit closing device for internal combustion engines, a casing, a plurality of contacts carried by the casing and insulated therefrom, terminals connected with the contacts, a corresponding number of leaf springs extending circumferentially within the casing in cooperative relation to the contacts and having contact elements to coact with said contacts, means for securing corresponding ends of the leaf springs to the casing, resilient actuating elements extending circumferentially within the casing upon the inner sides of the leaf springs and having corresponding ends thereof secured to the casing in a manner whereby such ends are held against perceptible movement with relation to the casing, said actuating elements being longitudinally curved to provide inwardly projecting cam surfaces provided at their ends with hooks to engage in advance of the leaf springs, said actuating elements being stiffer than the leaf springs and locally

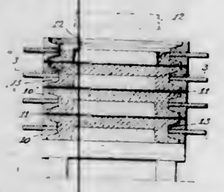
yieldable throughout the greater portion of their length and a rotatable wiper arranged to engage said cam surfaces, the wiper having curved engaging surfaces which coact with the longitudinally curved cam surfaces in a manner to gradually depress the actuating elements thereby reducing friction and wear to a minimum.

1,473,199. OSCILLATING INTERNAL-COMBUSTION ENGINE. JOSE CASTILLO PERAZA, New York, N. Y. Filed Mar. 25, 1921. Serial No. 455,468. 5 Claims. (Cl. 123—18.)



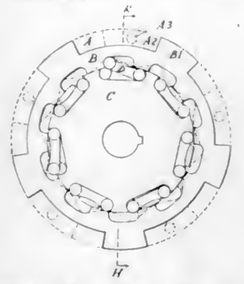
5. An internal combustion engine comprising a cylindrical casing having oppositely disposed radial abutments dividing the casing into two opposite piston chambers, an oscillating piston having a cylindrical hub journaled in the casing between said abutments and having radial arms operating in said chambers, each radial abutment having a transverse cylindrical valve chamber and passages leading from ports at the intermediate part of the valve chamber to the opposite piston chambers, a bushing co-extensive with each valve chamber and having openings through its walls registering with the ports leading from said chamber, a valve rotatable in each bushing having passages leading from its opposite ends to ports positioned in its intermediate part to register with the ports in said bushing as the valve is rotated, and cover plates secured to opposite sides of the cylindrical casing and clamping the bushings in the valve chambers between them, said plates having cylindrical chambers positioned at the ends of the valve chambers and communicating with the passages leading through the ends of the adjacent valves, one of said cover plates having supply passages leading to the cylindrical chambers therein and the other cover plate having discharge passages leading from its cylindrical chambers.

1,473,200. METHOD OF MAKING ARTIFICIAL BUILDING BLOCKS. FRANK MCMURRAY SAWYER, Los Angeles, Calif. Filed Jan. 12, 1920. Serial No. 350,802. 1 Claim. (Cl. 25—155.)



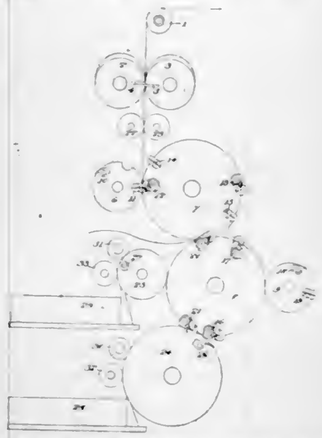
The method of molding artificial building slabs having a central depressed portion, consisting of placing a slab-form on a base, next placing a hollow core-form centrally therein and filling the core-form with core-forming material, next filling the slab-form anterior of the core-form up to the height of the core-form with slab material, then withdrawing the core-form while the slab material is soft leaving the sand core lying within the slab material, and finally filling the slab-form over the sand core and then allowing the slab to cure before the removal of the slab-form and sand-core.

1,473,201. DIFFERENTIAL. CIPRIANO ANDRADE, Jr., New York, N. Y. Filed Nov. 17, 1922. Serial No. 601,451. 1 Claim. (Cl. 74—7.)



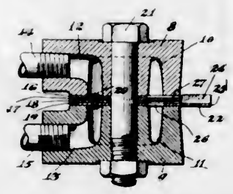
In a differential; a primary driving member having control recesses to actuate the control lugs on the pawls hereinafter mentioned; a secondary driving member actuated by said primary driving member and capable of limited circumferential motion in relation thereto, said secondary driving member having recesses in its inner face adapted to engage either in forward or reverse direction the pawls hereinafter mentioned; a first driven member inside of said secondary driving member, said first driven member containing recesses adapted to hold the pawls hereinafter mentioned and to engage said pawls either in forward or reverse direction; a second driven member inside of said secondary driving member, said second driven member containing recesses adapted to hold the pawls hereinafter mentioned and to engage said pawls either in forward or reverse direction; a plurality of double ended pawls enclosed in the recesses in each of said driven members, said pawls having control lugs which engage in the control recesses in said primary driving member, whereby said pawls perform a locking differential function between said secondary driving member and said two driven members either in forward or reverse direction.

1,473,202. FOLDING MECHANISM. HOWARD M. BARBER, Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y., a Corporation of Delaware. Filed July 13, 1921. Serial No. 484,387. 12 Claims. (Cl. 270—72.)



1. In a sheet folding machine, mechanism operative to make three parallel cross folds including four rotary folding cylinders, the first cylinder coacting with the second cylinder to make the first fold, the second cylinder and the fourth cylinder coacting with the third cylinder to make the second and third folds on the third cylinder.

1,473,203. OIL-DRIP PLATE FOR OIL BURNERS. AUGUST BEHRSIN, Los Angeles, Calif. Filed July 10, 1922. Serial No. 573,806. 4 Claims. (Cl. 158—78.)



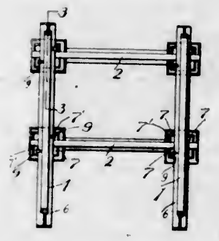
1. In a liquid fuel burner, two casing members adapted to be clamped together, a partition disk between the said members, a plate on each side of said disk, having portions cut away from their peripheries, a plate arranged between one of the casing members and one of said first named plates having an aperture opening to the cut away portion of said plate, said last named plate having an extension projecting beyond the outer periphery of the central disk and beyond the outer face of the casing members.

1,473,204. MEAT HANGER AND APPARATUS FOR APPLYING THE SAME. ROBERT BLADES, Chicago, Ill. Filed Oct. 9, 1922. Serial No. 593,482. 5 Claims. (Cl. 17—44.)



1. The combination with a pointed member, of a recess therein, a spring mounted in the recess, a member adapted to be releasably maintained in the recess by the spring, flexible means connected to said last mentioned member, and a similar member connected to said flexible means and separated from said member.

1,473,205. RAILROAD TIE. FREDERICK A. BRAGG, Springfield, Mass. Filed June 21, 1923. Serial No. 646,974. 10 Claims. (Cl. 238—49.)



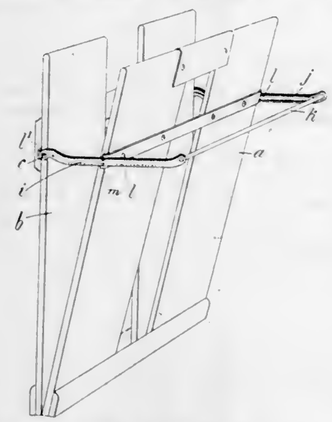
1. A combination of main track rails and oppositely located receptacles for supporting the main track rails, tie rods connecting the receptacles, a suitable hardening material poured into the receptacles, for securing the tie rods in place and means for attaching the main rails to the receptacles.

1,473,206. BEARING LINE FOR ELECTRIC AERIAL CONDUCTORS TO AUTOMOBILE MACHINES. HJALMAR S. CASSEL, Stockholm, Sweden. Filed Sept. 21, 1922. Serial No. 589,711. 6 Claims. (Cl. 191—12.)



1. An electric aerial conductor to an electrically driven automobile machine, a bearing-line independently extended from a mast erected on the field to the machine, for the purpose of supporting the said aerial conductor, the bearing-line being fastened (or suspended) on the machine lower than the aerial conductor devices for connecting the electric line at one or more points, so-called points of junction, to the bearing-line.

1,473,207. FASTENING OR LOCKING DEVICE FOR TROUSERS PRESSES. EDWARD CHAMBERS, Winchester, England. Filed Mar. 22, 1922. Serial No. 545,697. 3 Claims. (Cl. 100—57.)



1. A trousers press comprising two boards hinged together, two levers mounted on resiliently supported pivots at the edge of one board, a bar connecting the levers together so as to make them work in unison, means on the edge of the other board and engaged by the levers whereby on turning the levers on their pivots the boards will be pressed together.

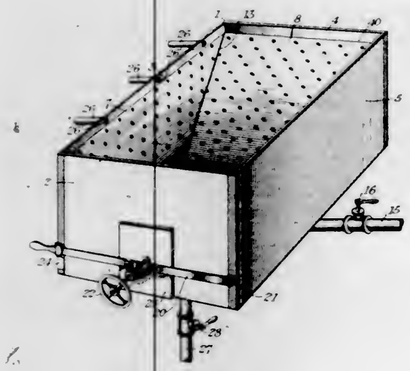
1,473,208. ACID-RESISTING ALLOY. ALVAH W. CLEMENT, East Cleveland, Ohio, assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 17, 1917. Serial No. 207,426. 7 Claims. (Cl. 75—1.)

1. An alloy containing principally nickel, cobalt, chromium and iron in which nickel and cobalt are both present in appreciable quantities but combined are not greater than 50% and the chromium is present in an appreciable quantity but not greater than 15%, the balance consisting principally of iron, together with an appreciable quantity of molybdenum but not greater than 10%.

1,473,209. WASHING APPARATUS FOR FIBROUS MATERIALS. ROBERT W. COOK, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 17, 1921. Serial No. 508,376. 4 Claims. (Cl. 142—12.)

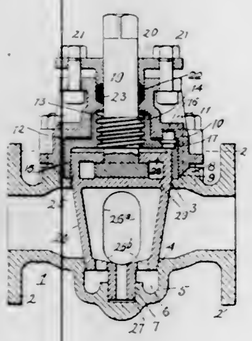
1. Apparatus of the type described comprising a tank with side and bottom walls, a container in the tank hav-

ing at its bottom a large outlet through a wall of the tank, and having a foraminous wall sloping to said out-



let, a closure for the outlet, and means for admitting liquid to the tank outside of and beneath the top of the container.

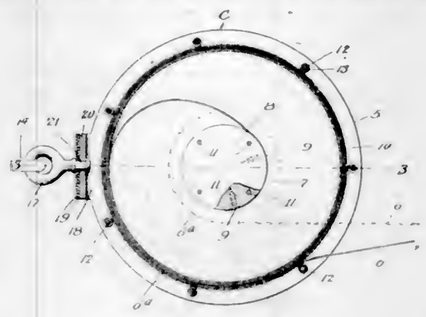
1,473,210. VALVE. JOSEPH A. COSTELLO, Cleveland, Ohio, assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 5, 1920. Serial No. 379,071. 11 Claims. (Cl. 251—97.)



1. A valve structure comprising a valve proper, a seat for the valve proper, means for operating the valve to move it to open or closed position, said means during the closing operation moving the valve toward the seat in a linear direction without rotation and subsequently causing the valve to rotate and still moving in a linear direction while moving into contact with its seat.

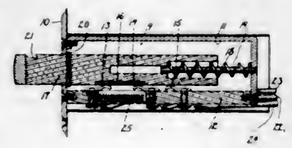
1,473,211. VEHICLE TOWING DEVICE. ROLLA R. COWLES, Chicago, Ill. Filed July 31, 1922. Serial No. 578,571. 7 Claims. (Cl. 280—33.14.)

1. A vehicle towing device comprising a spool, a normally straight, elastic, metal strip having its major portion loosely coiled around a non-revoluble core portion of said spool, its inner end being positively secured to said core and its outer free end leading out



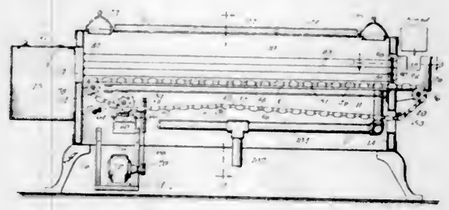
from the spool, and connecting means, one secured to said spool, and one to the free end of said strip.

1,473,212. AUXILIARY SWITCH FOR AUTOMOBILE LIGHTS. OTIS L. DAVIS, Iowa City, Iowa. Filed Oct. 13, 1920. Serial No. 416,746. 3 Claims. (Cl. 219—45.)



1. A switch for a main line and an auxiliary line, including a resistance coil and a push-button carrying a plate adapted to make and break circuits through the said coil to the main line and open and close the circuit through the auxiliary line.

1,473,213. AUTOMATIC TOASTER. ALFREDO DE MATTEIS, New York, N. Y. Filed June 27, 1922. Serial No. 571,313. 23 Claims. (Cl. 126—41.)

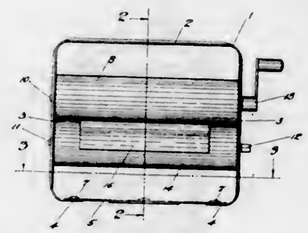


1. In a device for toasting bread, opposed heating elements, means for moving the slices of bread to be toasted between said heating elements, and stationary means for guiding the slices of bread as they travel between said heating elements.

1,473,214. TOY. FRED R. DENSMORE and CHRISTIAN H. KESSLER, Erie, Pa. Filed June 14, 1921. Serial No. 477,381. 1 Claim. (Cl. 46—41.)

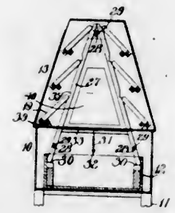
In a toy, the combination of two rolls; and a metal frame for said rolls comprising a sheet metal plate extending over the rolls and bent downwardly from the

top to form the sides and inwardly from the sides to form bottom portions, a connecting plate secured above



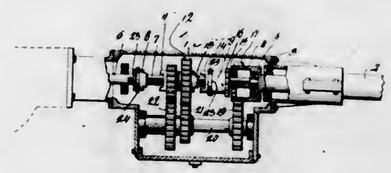
the inturned bottom portions, and a cross plate secured below the connecting plates, and bearings for the rolls arranged in said sides.

1,473,215. DISPLAY CABINET. WILLIAM P. DE WITT, Somerville, Mass., assignor to De Witt-La France Company, Cambridge, Mass., a Corporation of Massachusetts. Filed June 15, 1922. Serial No. 568,470. 22 Claims. (Cl. 211—7.)



1. A display cabinet having, in combination, a base, a casing mounted upon said base and embodying therein an end wall, a tray slidably mounted within said casing and entirely supported upon said end wall and means to lock said tray in its closed position to said end wall.

1,473,216. AUXILIARY TRANSMISSION. ERNEST F. DICK, Bend, Oreg. Filed June 24, 1921. Serial No. 480,154. 1 Claim. (Cl. 74—58.)



In combination, a casing, a drive shaft extending into the casing and journaled therein, a cylindrical member on the drive shaft, a driven shaft extending into the casing and journaled in the cylindrical member, a pair of clutch members rotatable with and slidable on the driven shaft, one of which is movable into and out of the cylindrical member, a gear rotatable on the driven shaft, a clutch element fixed thereto and engageable with one of the aforesaid elements which is not slidable within the cylindrical member, a second gear rotatable on the driven shaft, a clutch element fixed thereto and engageable by the other of the first mentioned clutch elements which is slidable within the cylindrical member, external teeth on the last mentioned clutch element which is slidable within the cylindrical member, internal teeth on the cylindrical member engageable by the external teeth, a countershaft journaled in the casing, external teeth on the cylindrical member, three gears keyed to the countershaft, two of which are in mesh with the gears on the driven shaft and the remaining gear in mesh with the external teeth on the cylindrical member, and means for shifting the two first mentioned clutch elements.

1,473,217. CELLULOSE-ETHER COMPOSITION. JOHN M. DONOHUE, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 24, 1923. Serial No. 621,083. 6 Claims. (Cl. 134—79.)

3. A flowable composition comprising 1 part of cellulose ether dissolved in from 5 to 7 parts by weight of a mixture of a lower monohydroxy aliphatic alcohol and a propionic acid ester of a lower monohydroxy aliphatic alcohol.

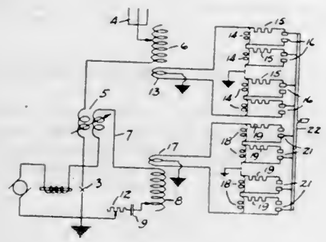
1,473,218. CELLULOSE-ETHER COMPOSITION. JOHN M. DONOHUE, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 24, 1923. Serial No. 621,086. 6 Claims. (Cl. 134—79.)

5. A composition of matter comprising 2 parts by weight of water-insoluble ethyl cellulose, 7 parts of epichlorhydrin and 7 parts of methyl alcohol.

1,473,219. CELLULOSE-ETHER COMPOSITION. JOHN M. DONOHUE, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 24, 1923. Serial No. 621,088. 6 Claims. (Cl. 134—79.)

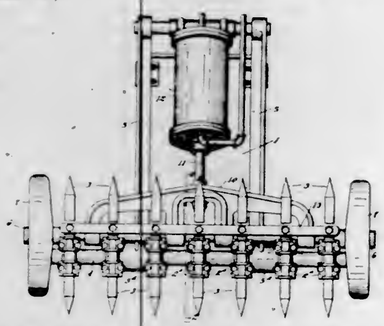
3. A flowable composition comprising 1 part of cellulose ether dissolved in from 5 to 7 parts by weight of a mixture of a lower monohydroxy aliphatic alcohol and a succinic acid ester of a lower monophydroxy aliphatic alcohol.

1,473,220. RADIOTELEGRAPHY SIGNALING SYSTEM. HAROLD F. ELLIOTT, Palo Alto, Calif., assignor to Augustus Taylor, San Francisco, Calif. Filed Aug. 23, 1921. Serial No. 494,468. 40 Claims. (Cl. 250—19.)



1. In a radio telegraphy signaling system, a source of radio frequency current, an oscillatory radiating circuit connected to said source, an oscillatory non-radiating circuit connected to said source, a loop circuit inductively coupled to one of said oscillatory circuits, a plurality of reactors in series in said loop circuit, and key circuits connected around said reactors.

1,473,221. SCARIFIER. WALTER J. ENDTER, Springfield, Ohio, assignor to The Buffalo-Springfield Roller Company, Springfield, Ohio, a Corporation of Ohio. Filed Jan. 3, 1922. Serial No. 526,623. 1 Claim. (Cl. 262—8.)



In a device of the character described, a series of pivoted tool holding bars, each of said bars having an integrally formed split collar, and a shaft extending across the entire series of bars and through said collars, means for clamping said collars to said shaft, and a tie bar extending across the entire series of tool holding bars and secured to said collars by said clamping means.

1,473,222. SELF-OPENING UMBRELLA. SAMUEL S. FRETZ, Sr., Philadelphia, Pa. Filed Sept. 12, 1921. Serial No. 500,238. 1 Claim. (Cl. 135—44.)



In a selfopening umbrella having a runner, a tip cup slidable thereon, means for releasing said tip cup, a tapered collar on the runner, a catch on the stick of the umbrella, said catch being provided with means for retaining said tip cup in operative position, and with means for engaging said collar for preventing the opening movement of the umbrella, said tip cup having thereon a tongue, and said collar having in its head a slot in which latter said tongue is slidable as a guide for the tip cup in its motions, and serving to prevent rotation of the tip cup.

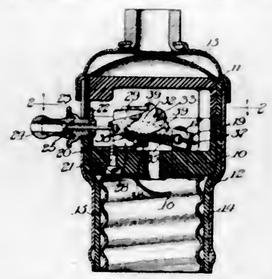
1,473,223. BRICK-PAVER'S BRIDGE. OLIVER W. GATCHELL, Greensboro, N. C. Filed June 27, 1922. Serial No. 571,202. 3 Claims. (Cl. 94—47.)



1. In a device of the character described, a body portion including an angle bar, an extension in the form of an angle bar positioned under the body portion and adjustably secured thereto, and rollers at the end of the body portion.

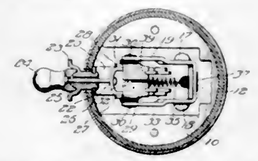
1,473,224. SWITCH MOVEMENT. DAVID D. GORDON, Chicago, Ill., assignor, by mesne assignments, to McGill Manufacturing Company, Valparaiso, Ind., a Corporation of Indiana. Filed Jan. 29, 1918. Serial No. 214,288. 23 Claims. (Cl. 173—346.)

1. A switch movement having a switch element swingable between two alternative positions, and means for moving said switch element from either of its positions to the other position by snap action, said means comprising an operating element and a spring connection extending from said operating element to said switch element so as to move said switch element from each position to the



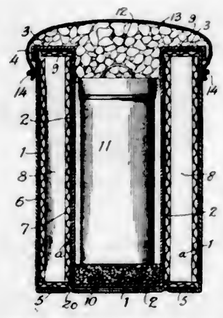
other by snap action, and a longitudinally reciprocatory control element, said control element being connected with said operating element by means of fixed pivots.

1,473,225. SWITCH MECHANISM. DAVID D. GORDON, Chicago, Ill., assignor, by mesne assignments, to McGill Manufacturing Company, Valparaiso, Ind., a Corporation of Indiana. Filed Apr. 20, 1918. Serial No. 229,742. 6 Claims. (Cl. 173—346.)



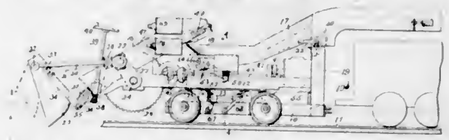
1. A switch movement having a pair of fixed contacts and a movable switch element adapted to bridge said fixed switch contacts to establish circuit connection therewith, a mounting for said switch element having fixed pivot means for one end of said switch element, means for insulating said switch element from said pivot means whereby said element oscillates about a fixed insulated axis, operating means for moving said switch contact from one alternative position to the other, and insulated connecting means interposed between said switch element and said operating means.

1,473,226. ICE-CREAM PACKER OR SHIPPING RECEPTACLE. JOHN N. GRAVES, Oklahoma, Okla. Filed Jan. 31, 1922. Serial No. 533,095. 3 Claims. (Cl. 220—9.)



1. An ice cream packer comprising an outer metal receptacle, a metal receptacle mounted in and spaced from the outer receptacle forming an annular air chamber between the two receptacles, a flange on the top of the inner receptacle closing said chamber, said flange having a downwardly extending rim fitting the outer receptacle, to maintain the two receptacles in spaced relation, corrugated cardboard lining the sides and ends of the annular chamber, a container mounted in the inner receptacles shorter than the latter thereby forming an ice chamber below the tops of the receptacles, and a flexible cover enclosing the chamber and tops of both receptacles.

1,473,227. LOADING MACHINE. ROBERT P. GREENLEAF, Cleveland, Ohio, assignor to Frank Billings, Cleveland, Ohio. Filed July 2, 1921. Serial No. 482,081. 10 Claims. (Cl. 214—90.)



1. In a loading machine, a material moving element, means for moving the same through a closed path of movement comprising a rotating double crank, links connecting the same to the material moving element at spaced points, and a movement controlling member cooperating therewith.

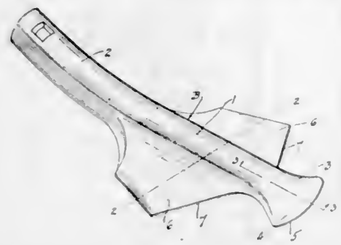
1,473,228. LADDER. JOSEF GRÜNDEL, New York, N. Y. Filed Aug. 2, 1922. Serial No. 579,264. 1 Claim. (Cl. 228—57.)



A knockdown ladder comprising stiles, each made of a plurality of sections, the meeting ends of adjoining sections being provided with tongue and groove joints extending only through part of the width of said sections, said joints being disposed on opposite edges of the stile and spaced longitudinally thereof, said meeting ends being further provided intermediate said tongue and groove joints with alined tenon and mortise joints, the opposed ends of the tenons on the two sections being spaced to provide a slot, and a ring end inserted into said slot serving for directly connecting the sections of the stile and preventing their longitudinal movement in relation to one another.

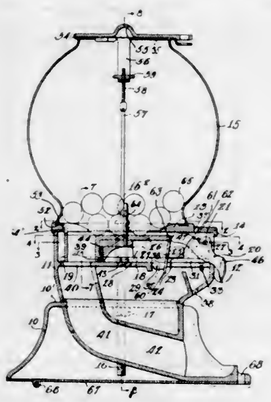
1,473,229. PLOWBLADE. GEORGE B. GWYNES, Andersonville, Ga. Filed Dec. 12, 1921. Serial No. 521,790. 1 Claim. (Cl. 97—204.)

As a new article of manufacture, a plow blade embodying a reinforcing rib of a thickness greater than the thickness of the remaining portion of the blade, said rib being extended to provide an entering nose, said nose decreasing in width from its outer end to the blade proper, the outer end portion of the nose being flattened, the outer margin of the nose being arcuate in form with the



bow outwardly directed, said margin being provided with a chisel edge, the rib being concavo-convex in cross section with its convex face upwardly directed.

1,473,230. VENDING MACHINE. WILLOUGHBY L. T. HAIN, Philadelphia, Pa. Filed July 15, 1921. Serial No. 484,878. 5 Claims. (Cl. 194—75.)

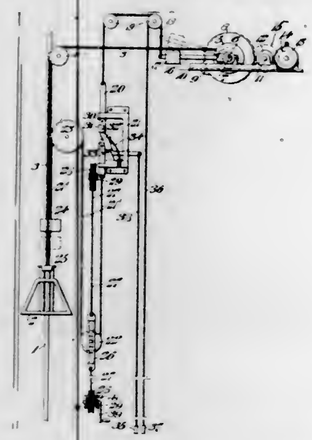


3. In a coin controlled vending machine of the class described, a carrier under spring pressure, means for retaining a coin in a vertical position against said carrier, a recess in the under forward portion of said carrier, a cam lever adapted for contact with said coin, the pressure of said cam lever securing said coin in said recess and causing a partial forward movement of said carrier, means for releasing said coin before said carrier completes its forward travel, said carrier completing its forward travel by pressure of said cam lever against said recess in said carrier after said coin has been released and means to deliver a predetermined portion of the contents of said machine upon the completion of the forward travel of said carrier, substantially as described.

1,473,231. PLATFORM ELEVATOR. ALBERT D. HEYL, New York, N. Y. Filed Jan. 27, 1922. Serial No. 532,121. 6 Claims. (Cl. 187—36.)

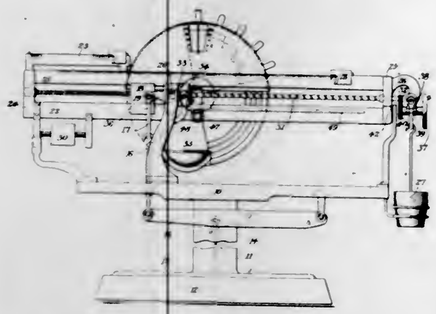
5. In a platform elevator, a hoisting drum, a friction drive and a brake shoe, a friction wheel co-operating with said drive and brake shoe and connected with said drum, a counterbalanced arm to move said wheel into contact with said friction drive or said brake shoe, a gig, a cable connecting said drum and gig, a latch bar, a cable connecting said latch bar and arm, a latch

block adjustable on said latch bar, a spring actuated latch to engage said latch block, a weight in the path



of the upward movement of said gig, a cable connecting said weight and latch bar, and a manually actuated cable connected with said latch to effect its release.

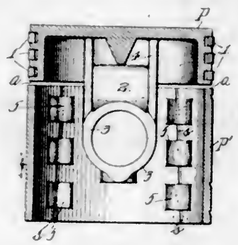
1,473,232. COUNTING SCALE. JOSEPH HOPKINSON, Dayton, Ohio, assignor, by mesne assignments, to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey. Filed Nov. 24, 1920. Serial No. 426,212. 8 Claims. (Cl. 265—30.)



1. A count indicating attachment for a counting scale having a counting beam, a counterpoise receiver and a counterbalancing poise thereon, and a threaded shaft for displacing the said receiver and poise relatively to the fulcrum of said beam, said attachment comprising in combination a rotary dial having a plurality of rows of count graduations, gearing associated with the dial for rotating the same upon rotation of the threaded shaft and proportionally to the extent of rotation thereof, a fixed shield over the said dial, and a window therein, through which the count graduation may be read.

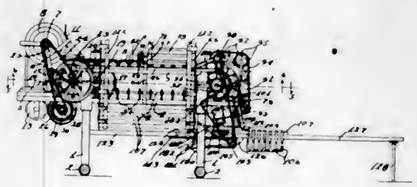
1,473,233. PISTON FOR ENGINE CYLINDERS. ROLAND M. HOWDESHELL, St. Louis, Mo., assignor to H. & H. Machine Company, a Corporation of Missouri. Filed May 22, 1920. Serial No. 383,519. 1 Claim. (Cl. 74—108.)

A piston of the class described including a head comprising an end portion and wall portion, a sectional skirt portion, hood members connecting the sections of said skirt portion, and rib members integrally con-



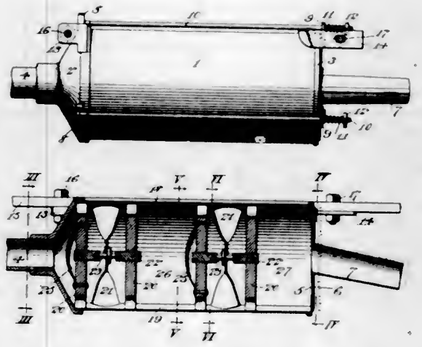
necting the sections of the skirt with the end of the head members.

1,473,234. SAUSAGE-LINKING MACHINE. WALTER J. O. JOHNSON, Chicago, Ill., assignor to The Allbright-Nell Co., a Corporation of Illinois. Filed June 13, 1921. Serial No. 477,008. 70 Claims. (Cl. 17—34.)



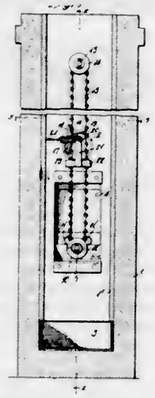
1. A sausage linking machine comprising an endless conveyor, means for first tensioning and then pushing stuffed sausage casings into said conveyor, a mechanism for operating said conveyor and said feed means, and means on said conveyor for automatically constricting said stuffed casings at spaced intervals.

1,473,235. MUFFLER. EL DORADO JONES, New York, N. Y. Filed July 31, 1919. Serial No. 314,402. 6 Claims. (Cl. 137—160.)



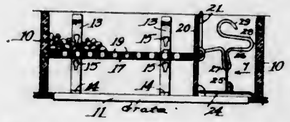
4. In a muffler, a casing, a frame removably mounted therein comprising longitudinal bars slidably fitting the inner walls of the casing and bridges connecting said bars, one or more fans rotatably mounted in said bridges, and one or more deflectors carried by said frame in front of said fan or fans.

1,473,236. CHIMNEY CLEANER. THEODORE G. KOHL, Wausau, Wis., assignor to The Anko Manufacturing Company, Wausau, Wis., a Corporation of Wisconsin. Filed Jan. 30, 1922. Serial No. 532,769. 11 Claims. (Cl. 15—249.)



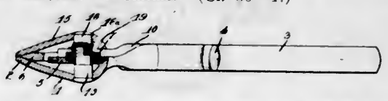
2. A chimney cleaner, comprising a pulley located centrally of a chimney near the upper end thereof, a band supported on said pulley and having two substantially vertical falls depending therefrom, means for moving said band, a cleaning element attached to said band, a guide contacting with both falls of said band and means for connecting said cleaning element and said guide.

1,473,237. ADJUSTABLE FIRE BOX. ANDREW KUBICKI, Webster, Mass. Filed Dec. 4, 1922. Serial No. 604,640. 7 Claims. (Cl. 126—145.)



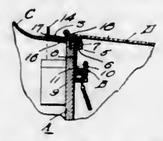
1. In a device of the character described, the combination with a plate adapted to be placed in a fire box to cut off the effective length thereof, of a plate connected to the first named plate and adapted to be located in position to prevent draft behind the first named plate, a handle connected with one plate, and means connected with the handle and with the other plate for swinging the horizontal plate upwardly and simultaneously swinging the vertical plate to inclined position to permit operation of a dumping grate below.

1,473,238. HAIR CLIPPER. CHESTER FRANKLIN LEWIS, Greensboro, N. C. Filed Sept. 18, 1922. Serial No. 588,906. 3 Claims. (Cl. 30—1.)



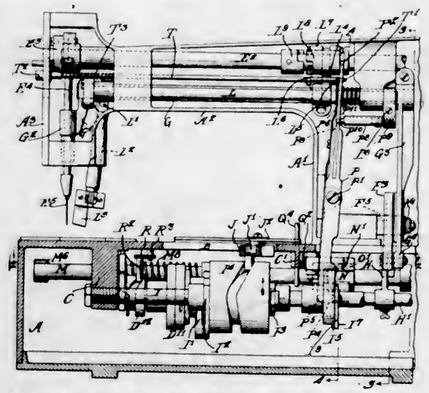
1. A hair clipper comprising upper and lower plates convexo concave at their rear portions and having fixed cutting blades at their front ends with a chamber formed between them, a movable cutting blade mounted to reciprocate between said fixed cutting blades, a handle fixed to one of said plates, another handle having a head mounted to rotate in said chamber and engage said movable blade whereby the turning of said head will reciprocate said blade, and a spring to place the parts under tension.

1,473,239. IGNITION PROTECTOR. GEORGE H. LUCKENBACH, Angleton, Tex. Filed Aug. 5, 1920. Serial No. 401,469. 2 Claims. (Cl. 180—90.)



1. The combination with an automobile engine hood, a dash board and a cowl, a drain trough, a strip disposed on the cowl overhanging and spaced from the dash board so as to extend parallel therewith below the hood and terminating in an L-shaped extension, said drain trough provided with an L-shaped extension engaging the first mentioned L-shaped extension thereby forming a watertight joint.

1,473,240. BUTTONHOLE-CUTTER MECHANISM. MICHAEL MCCANN, Glenmorris, N. Y., assignor to Frederick Osann Company, New York, N. Y., a Corporation of New York. Filed June 8, 1922. Serial No. 566,784. 9 Claims. (Cl. 112—68.)

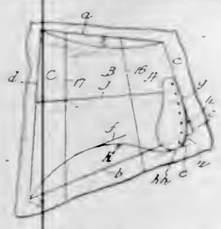


1. In a button hole sewing machine comprising a driving shaft, a rock shaft actuated thereby for actuating the needles, a button hole cutter, a rock shaft for actuating the cutter, fixed and movable clutch members on the needle actuating shaft, means for actuating the cutter shaft connected to the movable clutch member and actuated when said movable member is engaged by the fixed member, a longitudinally movable shaft and means actuated thereby for stopping the machine, means for engaging and disengaging the cutter actuating clutch in proper timing with the stopping and starting of the machine consisting of a pivoted lever for shifting the movable clutch member to and from engagement with the fixed member, locking means for holding said lever in retracted position during the stitching of the button hole and releasing it as said stitching is completed and means, actuated by the shifting of the stop actuating shaft to start the machine, for shifting the clutch actuating lever to retracted position.

1,473,241. METHOD OF DESIGNING CORSET ABDOMINAL SUPPORTS. SARA WEBER MCCORMICK and HUGH MALCOLM MCCORMICK, Chicago, Ill., assignors, by mesne assignments, to Champion Corset Company, Ypsilanti, Mich., a Corporation of Michigan. Filed Mar. 30, 1918. Serial No. 225,642. 4 Claims. (Cl. 33—11.)

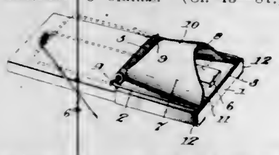
1. The method of designing one-half of an intra-pelvic abdominal support for use with corsets, which includes the steps of outlining on suitable material a four sided

figure defined by four points plotted on a corset indicating a grading line on the figure, separating the figure into a plurality of preliminary-pattern sections, using the preliminary-pattern sections to outline on another piece of material corresponding master-pattern sections which are modified by seam and shaping allowances and indicating a corresponding grading line, cutting the side edges



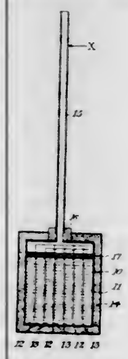
of the master-pattern sections, assembling the master-pattern sections according to the grading line and with adjacent side edges overlapping, rotating the master-pattern sections about points on the grading line to alternately vary the over-lap at the top and at bottom thereof, and cutting the top and bottom edges of the master-pattern sections in the respective positions.

1,473,242. ANIMAL-TRAP ATTACHMENT. HORACE M. MARSHALL, Vicksburg, Miss. Filed Apr. 24, 1922. Serial No. 556,145. 5 Claims. (Cl. 43—81.)



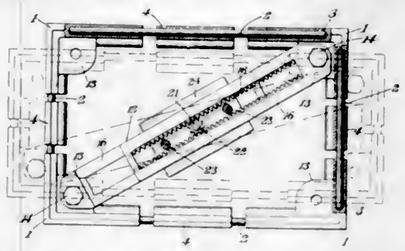
1. An attachment for traps having a base and a spring-actuated swinging bail pivoted thereto, comprising an arch shaped guard of sheet material adapted to be attached to the base at its opposite side edges at a point within the path of movement of said bail, the opening through the said guard being in a direction substantially at right angles to the pivotal axis of the bail.

1,473,243. MEANS FOR MAINTAINING EBULLITION. RALPH D. MERSHON, New York, N. Y. Filed July 20, 1921. Serial No. 486,250. 6 Claims. (Cl. 219—19.)



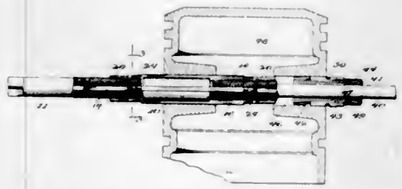
1. The combination with a vessel adapted to contain a liquid, of automatic means for maintaining a substantially constant temperature in the liquid, at least in part dependent for operation upon the rate of vapor-liberation from the liquid.

1,473,244. BOX-FORMING BLOCK. WILLIAM E. MIDDLETON, New Britain, Conn. Filed Aug. 18, 1922. Serial No. 582,592. 6 Claims. (Cl. 93—59.)



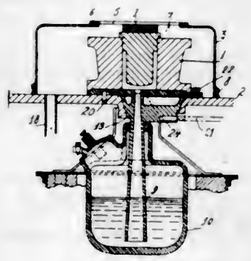
1. A box forming block comprising corner pieces, distance members extending between adjacent corner pieces and abutting portions thereof to space the corner pieces the desired distances apart, said distance members being bodily detachable from said corner pieces, and a clamping device extending between corner pieces to hold the corner pieces and distance members in adjusted relation.

1,473,245. METAL-WORKING TOOL. FRANK P. MILLER, Meadville, Pa. Filed Jan. 31, 1923. Serial No. 616,171. 12 Claims. (Cl. 77—75.)



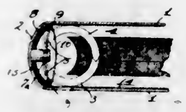
1. A tool comprising a body having gradually deepened grooves, work engaging blades mounted in said grooves and having longitudinally spaced recesses, and helical springs having a plurality of coils received in said recesses for holding the work engaging blades in position.

1,473,246. MACHINE FOR FILLING MOLDS. LÉON MONTUPET, Paris, France. Filed July 12, 1922. Serial No. 574,451. 3 Claims. (Cl. 22—73.)



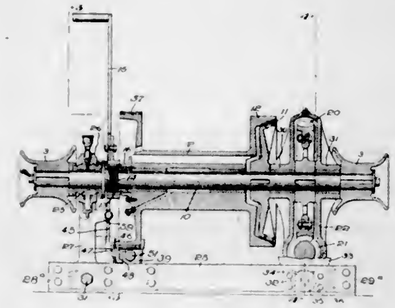
1. An apparatus for filling molds under reduced pressure including a work table on which the mold is adapted to rest, a bell having its lower edge resting on said table and adapted to enclose the mold, said bell being provided with an opening, a flexible diaphragm covering said opening and adapted to bear on said mold for forcing the same toward the work table, a supply conduit for furnishing the material to be moulded to the mold, and means for withdrawing air from said bell in order to cause the diaphragm to bear on the mold.

1,473,247. QUICK-RELEASE MEANS FOR LOOSE-LEAF BOOKS. GEORGE W. NEWMAN, Chicago, Ill., assignor to Wilson-Jones Loose Leaf Company a Corporation of Illinois. Filed Oct. 27, 1921. Serial No. 510,868. 1 Claim. (Cl. 129—24.)



In a loose leaf book, a pair of abutting toggle plates, a downwardly bowed resilient plate engaging the outer edges of said toggle plates, means extending between the abutting edges of said toggle plates for securing the same for conjoint tilting movement, a stud operatively connected between said toggle plates and extending through said bowed plate, when said toggle plates are in leaf locking position, and a flexible cover on said book extending over the outer end of said stud and concealing the same.

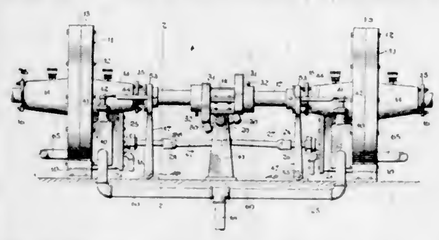
1,473,248. HOISTING DEVICE. ALMON E. NORRIS, Brookline, Mass. Filed Nov. 1, 1919. Serial No. 335,059. 19 Claims. (Cl. 254—187.)



1. A hoisting apparatus for motor trucks, or the like, comprising a driving shaft with hoisting mechanism thereon, a supporting base for said mechanism, a pedestal in which one end of said shaft has a spherical bearing permitting relative movement between the shaft and the pedestal, said pedestal having a pair of supporting legs each having a pivotal connection to one side of said base, driving mechanism for said shaft including a worm gear and driving worm, a gear casing therefor in which the opposite end of said shaft receives journal support, and a flexible connection between said gear casing and said base comprising a pivotal connection at the one side of the base and a pivotal connection at the opposite side thereof, the latter being capable also of a longitudinal movement, the casing being thereby adapted to a deformation of the base without causing any binding action upon the bearings.

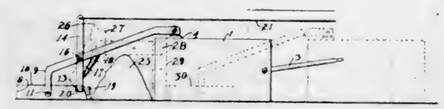
1,473,249. ROTARY ENGINE. FRANK G. O'ROURKE, Lackawanna, N. Y. Filed Sept. 13, 1921. Serial No. 500,347. 2 Claims. (Cl. 121—73.)

1. A rotary engine comprising a stator, a shaft extending through the stator and provided with a radial piston, a valve casing having a valve for controlling the supply of fluid under pressure to said stator, said valve being provided with a laterally directed arm, a link connected to said arm, a link operating member inclusive of a base, an arm pivoted thereto and having its upper portion forked to provide a pair of arms pivotally connected to said link, a pin connected to said forked por-



tion of the arm, a cam having a cam groove receiving said pin, whereby to reciprocate said link periodically, and means to supply said casing with fluid under pressure.

1,473,250. GAP CLOSER. PONTUS OSTENBERG, San Jose, Calif. Filed Aug. 24, 1920. Serial No. 405,738. 3 Claims. (Cl. 97—55.)



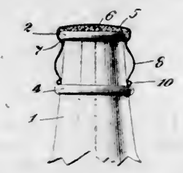
1. A gap closing device including a revoluble scoop and means operable by contact with a cross ridge for unlocking said scoop to permit the revolution thereof.

1,473,251. HARDENED THREADED SOCKET AND PROCESS OF PRODUCING SAME. SAMUEL PEACOCK, Wheeling, W. Va., assignor to Wheeling Steel Corporation, Wheeling, W. Va., a Corporation of West Virginia. Filed Dec. 6, 1922. Serial No. 605,287. 5 Claims. (Cl. 29—156.)

1. The process of providing sockets made of soft steel with relatively hard and smooth screw threads which consists in screw threading the soft steel of said sockets; alloying nickel with the surface portion of said soft steel threads to harden and toughen the same; and subjecting the hardened threads to a polishing action to reduce them to a predetermined standard gage.

3. The herein described new article of manufacture, the same consisting of a soft steel screw threaded socket having a hardened, polished, screw threaded surface of an alloy of nickel and steel joining its softer main body portion.

1,473,252. SELF-OPENING SEAL. GEORGE RAMSEY, Brooklyn, N. Y., assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y., a Corporation of New York. Filed Jan. 17, 1922. Serial No. 529,931. 14 Claims. (Cl. 215—46.)



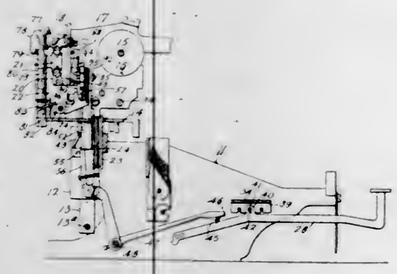
1. A closure cap comprising a retaining portion, and means depending from the retaining portion for rendering the retaining portion ineffective without destructive effort on the cap.

1,473,253. STONE-FINISHED CLAPBOARD. RALPH V. REYNOLDS, Chicago, Ill. Filed June 23, 1921. Serial No. 479,782. 2 Claims. (Cl. 72—19.)



1. A clap-board, consisting of a fibrous foundation, and an outer layer of cement, the foundation at one edge extending beyond the layer of cement, the layer of cement being tapered toward the uncovered portion of the foundation and terminating in a shoulder.

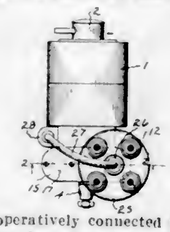
1,473,254. TYPEWRITER. LYMAN R. ROBERTS, Rutherford, N. J., assignor to L. R. Roberts Typewriter Company, Stamford, Conn., a Corporation of Delaware. Filed Aug. 18, 1921. Serial No. 493,340. 5 Claims. (Cl. 197—65.)



1. In a typewriter, a platen carriage, means tending to drive the carriage, an escapement mechanism including an escapement wheel, a fixed dog and a loose dog, the loose dog being pivoted on a pin carried by the fixed dog and having a slot through which said pin passes, a brake drum rotating as the carriage moves, means for moving the loose dog bodily away from the escapement wheel to permit the carriage to run, and a brake band cooperating with said brake drum and having one end fixed and the other end connected with said dog moving means, whereby the brake band is tightened on the drum upon release of the escapement.

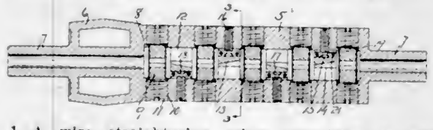
1,473,255. MAGNETO. WOLFGANG E. SCHWARZMANN, Longmeadow, Mass., assignor to American Bosch Magneto Corporation, Springfield, Mass., a Corporation of New York. Filed Dec. 22, 1920. Serial No. 432,708. 6 Claims. (Cl. 123—149.)

2. In an ignition system for internal combustion engines, the combination of a magneto having a gearing housing at one end thereof and a shaft extending into said housing, a distributor, a reversible mounting on said housing for selectively supporting said distributor in either of two operative positions, and common means in



said housing and operatively connected to said shaft and to said distributor for operating said distributor in either of said positions.

1,473,256. WIRE-STRAIGHTENING ARBOR. ELMORE F. SHUSTER, New Haven, Conn. Filed Jan. 25, 1921. Serial No. 439,771. 11 Claims. (Cl. 153—37.)

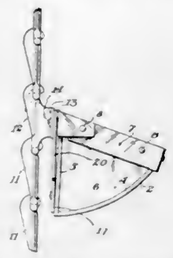


1. A wire straightening arbor comprising a body, wire straightening dies spaced apart therein, wire guides located between said dies and me ans for moving said guides to change their positions with respect to said dies.

1,473,257. EXPLOSIVE COMPOSITION. WALTER O. SNELLING, Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y., a Corporation of New York. Filed Nov. 14, 1921. Serial No. 514,980. 11 Claims. (Cl. 52—11.)

3. An explosive comprising a detonating agent, an oxidizing agent, and a resinate.

1,473,258. ELEVATING BUCKET. VICTOR D. STEEDSMAN and EMIL H. INTLEHOUSE, De Lamere, N. Dak. Filed Sept. 26, 1922. Serial No. 590,677. 4 Claims. (Cl. 198—152.)



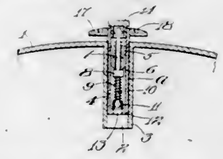
1. A protective guard for grain elevator buckets comprising a base adapted to be secured to the lower rear part of the bucket, integral vertical arms extending from the base adapted to be secured to upper rear part of the same, and means whereby the guard and bucket are firmly secured together.

1,473,259. PROCESS OF FORMING SODIUM COMPOUNDS. CARL SUNDSTROM and GEORGE N. TERZIEV, Syracuse, N. Y., assignors to The Solvay Process Company, Solvay, N. Y., a Corporation of New York. Filed Nov. 15, 1922. Serial No. 601,158. 6 Claims. (Cl. 23—22.)

1. The process of forming a sodium compound having the formula $Na_2CO_3 3NaHCO_3$ which consists in forming a mixture of sodium bicarbonate and a sodium carbonate

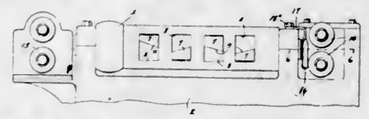
compound in which mixture the proportion of CO_2 to Na_2O is at least equal to that in said compound and heating the mixture at a temperature below that required to convert the sodium bicarbonate into sodium carbonate.

1,473,260. INFLATABLE BALL. REX H. TAYLOR, Rochester, N. Y. Filed Feb. 8, 1922. Serial No. 535,102. 3 Claims. (Cl. 46—4.)



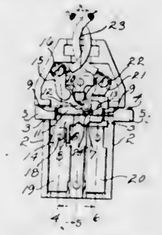
1. An inflated ball having a bladder composed of thin, flexible material and having a tubular stem integral therewith extending into the interior of the bladder, in combination with a valve having a casing secured to the inner periphery of said stem and projecting some distance outside of the bladder, the protruding portion of said valve casing being screw threaded on its outer periphery in combination with a screw-threaded washer which is separable from the valve casing and which is adapted to be screwed down on the valve casing to clamp a cover to the bladder.

1,473,261. WIRE-STRAIGHTENING MACHINE. LAWRENCE THOMPSON, Syracuse, N. Y., assignor to Elmore F. Shuster, New Haven, Conn. Filed Feb. 2, 1921. Serial No. 441,946. 8 Claims. (Cl. 153—37.)



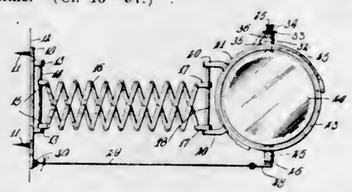
7. In a wire straightening machine, a rotating mandrel having straightening dies therein, rolls at the discharge end of the mandrel for receiving the wire, and means between such end of the mandrel and the rolls for guiding the wire to the rolls, said means comprising a pair of blades inclined along their lengthwise dimensions to form a passage converging toward the rolls, substantially as and for the purpose set forth.

1,473,262. SWITCH. CLIFFORD E. TREAT, Los Angeles, Calif. Filed May 31, 1922. Serial No. 564,809. 5 Claims. (Cl. 200—69.)



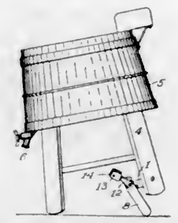
1. In a switch the combination of an operating member comprised of a spring having a projecting surface, a guide member limiting said operating member to a relatively reciprocating motion, and a roller spaced to engage said projecting surface to place tension on said operating member when reciprocated to open or close the switch.

1,473,263. SHAVING MIRROR. JOHN URBAN, Newark, Ohio. Filed Dec. 8, 1922. Serial No. 605,550. 3 Claims. (Cl. 45—97.)



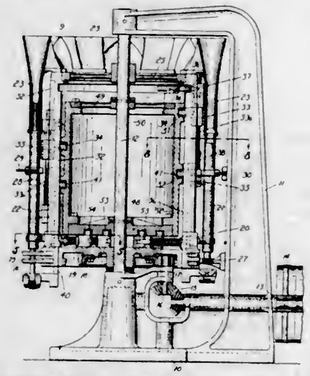
1. In combination, a mirror, trunnions thereon, a frame-ring in which said trunnions are engaged, a lazy-tongs device supporting said frame-ring, a support for said lazy-tongs device, an arm fixed to one of said trunnions, a cord attached at one end to said arm and at its opposite end to said support, and an adjustable stop element adapted to limit swinging movement of said arm.

1,473,264. MEANS FOR TILTABLY SUPPORTING TUBS. HENRY M. VAUGHAN, Newton, Iowa. Filed June 13, 1922. Serial No. 568,085. 2 Claims. (Cl. 248—56.)



1. A tilting device for tubs and the like, comprising a fixed leg on the tub having a bracket, an auxiliary leg having at one end a pivotal connection to the bracket, means for limiting outward movement of the auxiliary leg, an arm pivoted at one end on said pivotal connection, a weight mounted on said arm, and means for limiting the scope of movement of said arm.

1,473,265. BOBBIN-CLEANING MACHINE. ERNEST H. VOWLES, Fitchburg, Mass., assignor to Fitchburg Bobbin Cleaning Machine Company, a Corporation of Massachusetts. Filed Sept. 1, 1921. Serial No. 497,583. 37 Claims. (Cl. 28—20.)



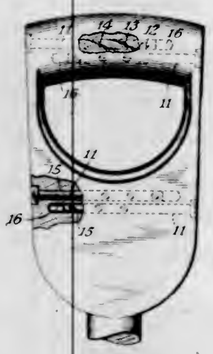
1. A bobbin stripping machine comprising means for stripping waste from bobbins, and a circular series of hoppers for receiving the bobbins dropped therein loosely and guiding them toward the stripping means.

1,473,266. FOOD AND WATER TROUGH FOR POULTRY. ARCHIE R. WEBB, Pensacola, Fla. Filed Nov. 8, 1922. Serial No. 599,683. 9 Claims. (Cl. 119—61.)



1. An all metal arrangement for feeding poultry comprising a body portion made of sheet metal and provided with a central food trough, upwardly and downwardly projecting plates notched at the top, and bent at the bottom to form supporting legs, and a detachable roof portion made of a metal plate bent downwards at its axial center to form a web engaging in said notches in said plates, the said roof having downwardly inclined parts projecting laterally above and beyond the sides of said food trough.

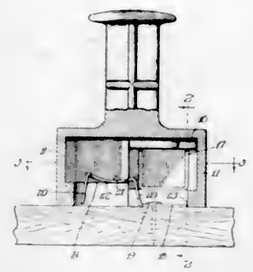
1,473,267. REENFORCEMENT FOR SHOVEL HANDLES. LEWIS E. WEBSTER, Wyoming, Pa., assignor to The Wyoming Shovel Works, Wyoming, Pa., a Corporation of Pennsylvania. Original application filed Aug. 6, 1920, Serial No. 401,795. Divided and this application filed Feb. 4, 1922. Serial No. 534,177. 3 Claims. (Cl. 294—57.)



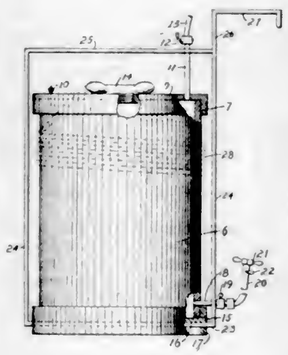
1. A reenforced shovel handle comprising, in combination, a handle body portion of D-shape and having a plurality of drilled holes overlapping each other at their ends and spaced apart, a plurality of slotless screws each driven into one of said openings and each screw having a plurality of independent and separate threaded portions each lying upon a separate developed spiral to enter the body portion at varying points thereof, said screws being adapted to compress the intervening material between the overlapping ends of the drilled holes.

1,473,268. HOLDER FOR CONCRETE INSERTS. WILLIAM E. WHITE, Chicago, Ill. Filed Feb. 16, 1921. Serial No. 445,315. 5 Claims. (Cl. 72—105.)

1. A retaining device adapted for cooperation with a hollow insert having a key-hole slot, the narrow portion of which slot is provided with inwardly projecting flanges, said retaining device having a portion for attachment to a form, and a resilient free portion shaped to enter the wide portion of the insert slot and by lateral movement to overlie said flanges.



1,473,269. PORTABLE PRESSURE OILER. JOHN W. WILL, San Jose, Calif. Filed Mar. 3, 1921. Serial No. 449,471. 1 Claim. (Cl. 248—11.)

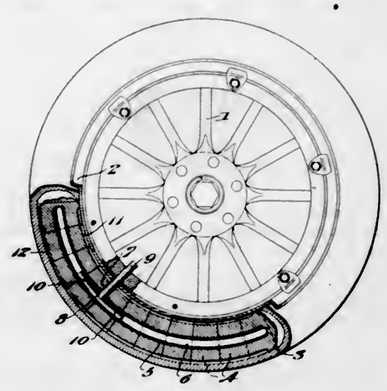


A receptacle support of substantially rectangular form having two of its parallel sides extending lengthwise of the receptacle on opposite sides thereof and in spaced relation thereto, one of the remaining sides of the support being interlocked with the bottom wall of the receptacle, a top bar in said support, said top bar provided with an aperture accommodating a rigid tube from the receptacle whereby a rigid connection between the receptacle and the support is made, an apertured vertical member in the support, said vertical member admitting a conduit communicating with the receptacle, the conduit serving to maintain a rigid connection between the support and the receptacle.

1,473,270. CUSHION TIRE. VAN L. WILSON, Boise, Idaho. Filed Mar. 23, 1920. Serial No. 368,071. 1 Claim. (Cl. 152—5.)

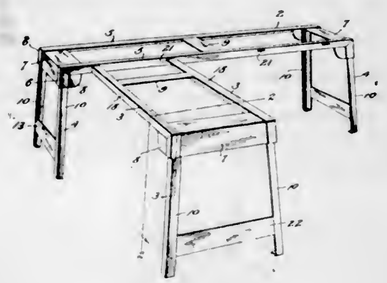
In a cushion tire, a continuous hollow casing, a plurality of filler sections of cushion material placed within the casing in end abutting relation and unsecured, said sections being provided with central circumferential air circulating passages, aligned when the sections are fitted in the casing and having inner and outer peripheral

grooves diametrically in line with the center of the tread and the air circulating passage, and a substantially T-shaped air intake and escape tube fitted with its head



branches in the air circulating passages of two adjacent sections of the filler and having its stem opening to the atmospheric air.

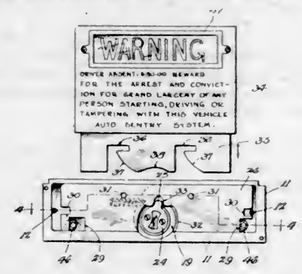
1,473,271. TUB BENCH. DE WITT H. WYATT, Columbus, Ohio, assignor to Burt Driskell, Columbus, Ohio. Filed Feb. 23, 1921. Serial No. 447,092. 2 Claims. (Cl. 68—35.)



1. A metallic bench comprising an elongated frame, a laterally extending supplemental frame disposed to extend at right angles to said main frame, said supplemental frame being formed to include a pair of parallel bars, tongues provided on the ends of said bars and arranged to be received within paired spaced slots provided in said main frame, upturned projections being provided upon the ends of said tongues for engagement with the inner edge of one of the bars of the main frame and serving to engage either pair of slots to lock said supplemental frame in connection with the main frame, and leg sections carried by said frames.

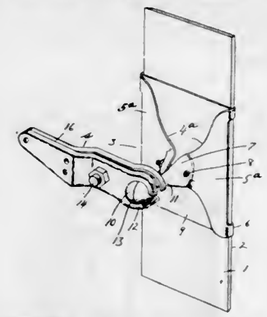
1,473,272. THEFT SIGNAL. LUDWIG R. ZEPKA, Cleveland, Ohio. Filed Mar. 23, 1922. Serial No. 546,151. 9 Claims. (Cl. 40—5.)

1. A theft signal including a base, a signal plate insertable therein, means upon the base for automatically locking the plate when inserted in the base, and means secured at one end upon the base and free at its opposite



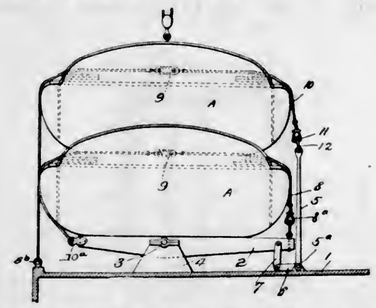
end to engage the signal plate for ejecting the plate when released.

1,473,273. MIRROR SUPPORT. FRED W. ZINK, Detroit, Mich., assignor to Kales Stamping Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 26, 1921. Serial No. 455,905. 3 Claims. (Cl. 45—97.)



1. The combination with a support, of a supporting clamp comprising cooperating members having flanges extending inwardly toward each other, means for securing said members to each other, means concealed by said flanges and one of said members for securing the other of said members to said support, a mirror, and means adjustably engaging said clamp for holding said mirror.

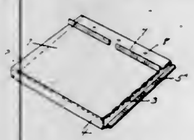
1,473,274. DEVICE FOR SECURING AND RELEASING LIFEBOATS. HARRY W. BROADY, Bayside, N. Y., assignor to American Balsa Company, Inc., a Corporation of New York. Filed Sept. 4, 1920. Serial No. 408,134. 5 Claims. (Cl. 9—22.)



1. In combination, a support for a life boat pivoted on the deck of a vessel and adapted to tilt in an outboard direction, a flexible connection secured at one end outboard of said life boat and adapted to pass trans-

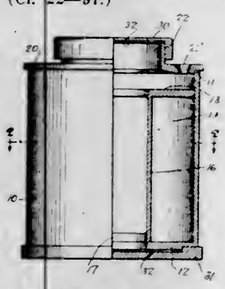
versely across the same, a bell crank lever pivoted adjacent to the inboard side of said support comprising a short arm operatively connected at its free end with the inboard end of said support and a relatively long actuating-arm movable from vertical inoperative position to horizontal support-tilting position and means for releasably connecting the free end of said actuating arm with the inboard end of said flexible connection to fasten the same in said inoperative position.

1,473,275. SHINGLE. NEAL J. BURGETT, Detroit, Mich. Filed Jan. 10, 1921. Serial No. 436,057. 2 Claims. (Cl. 108—17.)



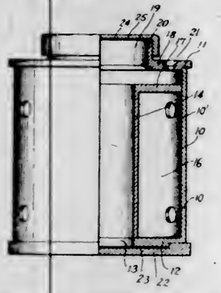
2. In a shingle, the combination with the body portion, of integral depending flanges upon opposite sides and at the lower end thereof, one of said flanges terminating in a laterally extending portion, said laterally extending portion being spaced from the body portion and disposed in a plane parallel therewith, and an integral projection upon the upper face of the body portion extending transversely thereof.

1,473,276. DENTAL FLASK. MARTIN F. BURNS, Astoria, N. Y. Filed Mar. 24, 1922. Serial No. 546,304. 10 Claims. (Cl. 22—97.)



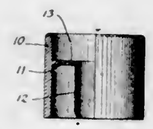
1. In combination, a receptacle provided with a bottom having an angular opening therein and an investment holder adapted to be positioned in said receptacle comprising a pair of substantially vertical walls spaced apart a distance less than the maximum width of the opening in the bottom of the receptacle.

1,473,277. DENTAL FLASK. MARTIN F. BURNS, Astoria, N. Y. Filed Apr. 3, 1922. Serial No. 549,267. 9 Claims. (Cl. 22—97.)



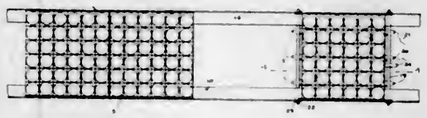
1. In combination, a receptacle, an investment holder having substantially vertical, spaced walls and connecting portions extending through the length of said walls, said investment holder having flanges extending laterally and outwardly from one end thereof, shaped to fit the inner wall of the receptacle.

1,473,278. DENTAL APPARATUS. MARTIN F. BURNS, Astoria, N. Y. Filed Sept. 2, 1922. Serial No. 585,884. 15 Claims. (Cl. 22—97.)



1. In combination, a receptacle having an inwardly extending flange thereon, and an investment holder having a flange at its upper end supported on said flange.

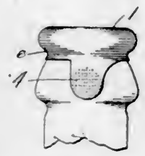
1,473,279. EGG-CANDLING APPARATUS. VICTOR CLAIREMONT, San Francisco, Calif. Filed Aug. 10, 1921. Serial No. 491,143. 6 Claims. (Cl. 99—6.)



3. In candling apparatus comprising a support, an egg container movable on the support, illuminating means movable on the support beneath the container and means of connection between the container and illuminating means providing for simultaneous movement of said container and said illuminating means.

4. The method of candling eggs which consists in placing eggs over illuminating means and continuously moving the eggs and illuminating means in a given direction and candling the eggs during the movement thereof.

1,473,280. VESSEL SEAL. WALTER L. CLARK, New York, N. Y., and WILFORD J. HAWKINS, Montclair, N. J., assignors to American Dan Bottle Seal Corporation, Dover, Del., a Corporation of Delaware. Filed Apr. 1, 1922. Serial No. 548,726. 1 Claim. (Cl. 215—38.)

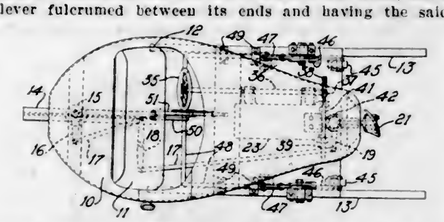


The combination with a bottle or vessel having a bead, of a malleable metal cap having the lower edge of its flange swaged and drawn into rigid engagement with the outer wall of said bead and bottle neck, that portion in engagement with the bottle neck constituting a continuous anchoring skirt, said skirt being hardened by the said swaging thereof into engagement with the bottle neck, said swaging action being conducted simultaneously on all parts of the skirt.

1,473,281. POWER-DRIVEN SLEIGH. CHARLES H. COLBURN, Hamlin, N. Y. Filed Oct. 25, 1921. Serial No. 510,336. 1 Claim. (Cl. 180—3.)

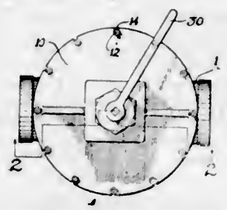
In a sleigh, a runner at one end thereof, an air propeller at the opposite end, vertical members around which said runner and propeller are adapted to swing, laterally projecting arms fixed to said vertical members, a pair of

links connected at one end one to each of said arms, and a lever fulcrumed between its ends and having the said



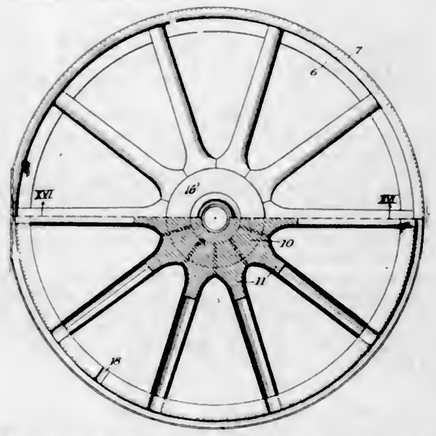
links connected respectively to opposite ends thereof whereby said runner and propeller are caused to swing oppositely in unison.

1,473,282. DISK VALVE. THOMAS COSGROVE, Jr., Canton, Ohio. Filed Mar. 30, 1921. Serial No. 456,819. 5 Claims. (Cl. 251—84.)



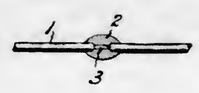
1. A valve including a casing provided with inlet and outlet openings, a partition dividing the casing into inlet and outlet chambers, said partition having ports therein, a rotatable valve head, disks upon said head arranged to seat over said ports and a valve stem extending through the casing and connected to the valve head by a ball and socket joint.

1,473,283. WHEEL. JOHN C. CROMWELL, Cleveland, Ohio. Filed Jan. 19, 1920. Serial No. 352,531. 8 Claims. (Cl. 301—64.)



6. A metallic wheel, comprising an inner blank and an outer blank, spoke-forming portions in each of said blanks, said spoke-forming portions being independently formed at their inner ends, the width of the spoke-forming portions of one of the blanks being less than the width of the spoke-forming portions of the other blank, and a separate hub member secured in position by said blanks, substantially as described.

1,473,284. ELECTRIC-FUSE ELEMENT. FREDERICK A. FELDKAMP, Newark, N. J. Filed May 17, 1921. Serial No. 470,434. 10 Claims. (Cl. 200—135.)



1. An electric fuse of high specific conductivity and comparatively high melting point in intimate closely adhering contact with a superimposed metallic material which under normal temperature is inactive and under excessive higher temperature combines with the fuse material to form an alloy of lower melting point.

1,473,285. RUBBER COMPOSITION AND METHOD OF MAKING THE SAME. HARRY L. FISHER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed May 16, 1922. Serial No. 561,537. 42 Claims. (Cl. 18—53.)

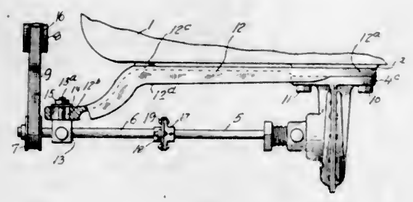
13. A process of vulcanizing rubber which comprises vulcanizing the rubber in the presence of sulfur and a reaction product of ammonia or an aliphatic amine, an aliphatic ketone, a dehydrating agent, and one of the reactive compounds of sulfur numbered 1 to 5 in the above specification.

29. As a new composition of matter, a vulcanized rubber containing vulcanization products of (1) sulfur and (2) a reaction product of ammonia or a aliphatic amine with an aliphatic ketone, prepared in the presence of a dehydrating agent.

1,473,286. REFRACTORY ARTICLE. EDWIN B. FORSE, Perth Amboy, N. J., assignor to The Carborundum Company, Niagara Falls, N. Y., a Corporation of Pennsylvania. Filed Aug. 24, 1922. Serial No. 584,091. 7 Claims. (Cl. 18—61.)

1. A refractory article containing silicon carbide grains having its surface pores filled with finely divided silicon carbide.

1,473,287. CIRCULATION-PUMP ATTACHMENT. BERT D. GILSON, Chicago, Ill. Filed Oct. 4, 1920. Serial No. 414,609. 11 Claims. (Cl. 123—175.)



1. The combination with an internal combustion engine and a circulating pump attachable to said engine, of a bridge attachable with said pump, and a bearing box for the pump shaft and adjustably seated in the outer end of said bridge.

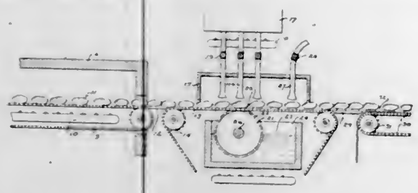
9. The combination with an internal combustion engine and a pump attachable to said engine, of a bridge insertable between the pump and engine, the outer end of said bridge horizontally perforated, and a bearing box for the pump shaft mountable in said perforation and adjustable in all directions for the purpose of proper alignment.

1,473,288. TOWLINE BUMPER. SAMUEL CHARLES GOULD, Bridgeport, Conn. Filed June 6, 1923. Serial No. 643,665. 9 Claims. (Cl. 293—55.)



1. A device of the character described, comprising a bumper and a tow line attachment secured to said bumper.

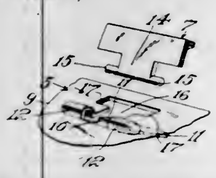
1,473,289. PROCESS OF MAKING A FOOD PRODUCT. WESTON GREEN, Dayton, Ohio, assignor to The Green & Green Company, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 25, 1922. Serial No. 531,713. 9 Claims. (Cl. 107—54.)



2. In a process of manufacturing a food product, rolling dough into a strip, folding the dough strip upon itself a plurality of times, cutting out the dough strip in a desired configuration, baking said plurality of strips so cut out as a unit, and coating with a confectionery product the exterior of said baked layers of dough.

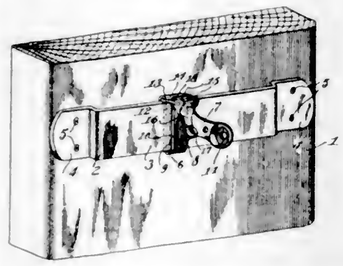
8. In a process of producing a food product, the formation of a layer of dough, bending the dough back upon itself a plurality of times, cutting a plurality of said adjacent layers of dough into a desired configuration, leaving air spaces between said layers with the exception of the portions at the edges thereof which are crimped together, baking said cut out portions, coating said cut out portions with a confectionery coating, forming a level area on the exterior of said article, said level area being composed of a confection, and removing the surplus confectionery coating.

1,473,290. HINGE STRUCTURE. SAMUEL HAMMER, New York, N. Y., assignor to United Metal Box Co., Inc., Long Island City, N. Y., a Corporation of New York. Filed July 27, 1921. Serial No. 488,026. 3 Claims. (Cl. 220—31.)



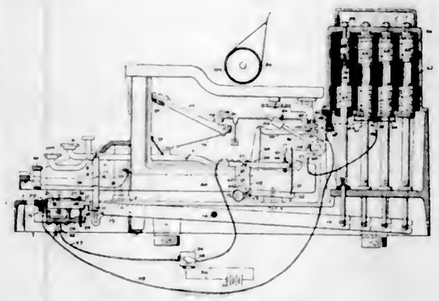
1. In a hinge structure, complemental parts to be hingedly connected, one of said parts having a lug provided with hinge pintles, the other of said parts including a wall having a slot cut therein through which said tongue and pintles are adapted to be inserted, said wall being provided at one end of the slot at its opposite edges with seats to receive said pintles, and means adapted to be positioned in said slot and located wholly in the plane of said wall to completely close the slot and retain the pintles in said seats.

1,473,291. WINDOW-SHADE BRACKET. CLARENCE E. HARSH, Minerva, Ohio, assignor of one-half to Ralph M. Schory, Minerva, Ohio. Filed July 24, 1920. Serial No. 398,731. 2 Claims. (Cl. 156—24.)



1. A shade bracket comprising a base plate, a vertically disposed U-shaped member located around said base plate and arranged for horizontal, slidable movement thereon, a bracket arm rigidly mounted upon the outer leg of said U-shaped member, a link pivotally connected to the extremity of the inner leg of the U-shaped member, and a lever carried upon said link and arranged to engage the end portion of the outer leg of the U-shaped member to clamp the legs of said U-shaped member tightly upon the base plate.

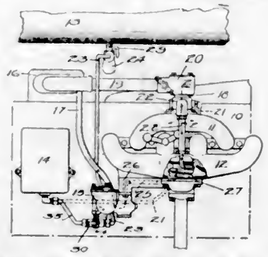
1,473,292. ELECTRIC TYPEWRITING MACHINE. EDWARD H. HEBERN, Oakland, Calif., assignor to H & H Patent Developing Company, Oakland, Calif. Filed Sept. 8, 1919. Serial No. 322,568. 7 Claims. (Cl. 197—13.)



1. In an electric typewriting machine, the combination of a pivoted key bar, a contact moved thereby, a second contact, from contact with which the first-named contact is normally held by said key bar, an electromagnetic device energized by the closing of a circuit through said contacts, a type bar moved toward the platen of the typewriting machine by the energization of said electromagnetic device, and a normally closed second pair of contacts in said electric circuit and opened by the movement of said type bar toward the platen of the typewriting machine.

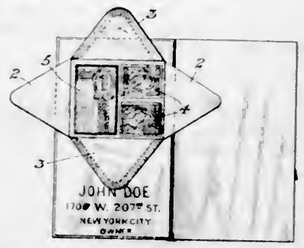
1,473,293. FUEL-CONTROL DEVICE. GERALD A. HOUGHTALING, Indianola, Iowa. Filed Aug. 22, 1922. Serial No. 583,501. 1 Claim. (Cl. 158—36.)

In combination with an engine having an intake and exhaust manifold, a kerosene tank, a gasoline tank, a carburetor, a coil in the exhaust manifold, communicating with the intake manifold and the carburetor, and a valve casing having a three-way valve therein mounted on said carburetor and arranged to communicate therewith, pipes leading from the kerosene tank and the gasoline tank to said casing, the parts being so arranged that by manipulation of said valve, communication may be established between the kerosene tank and the carburetor,



or communication may be established between the gasoline tank and the carburetor or the supply of gasoline and kerosene may both be shut off.

1,473,294. ACCESSORY FOR NOTEBOOKS OR THE LIKE. MILLER REESE HUTCHISON, West Orange, N. J. Filed Sept. 1, 1920. Serial No. 407,370. 12 Claims. (Cl. 281—31.)

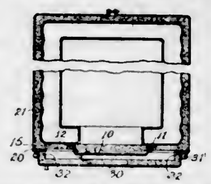


1. An article of manufacture embodying an auxiliary carrying means for postage stamps in amount sufficient for carrying said article in the mails, said carrying means protecting all of the stamps and preventing convenient access thereto or use thereof other than for mailing the article.

1,473,295. METHOD OF RECOVERING BROMINE. COULTER W. JONES, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed May 7, 1920. Serial No. 379,469. 4 Claims. (Cl. 23—10.)

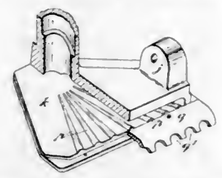
1. In the extraction of bromine from bromide-containing brine, the steps which consist in treating such brine so as to leave free chlorine therein in excess of that required to free the bromine present, thereupon combining such excess chlorine, and then treating the brine to remove the free bromine, substantially as described.

1,473,296. FURNACE INSULATION. CHARLES R. KLINE, Reading, Pa. Filed Nov. 7, 1919. Serial No. 336,420. 2 Claims. (Cl. 110—172.)



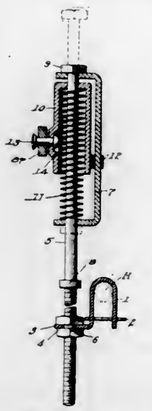
1. The combination of a furnace having a front and a door therefor, a skeleton framing having an opening therein aligning with said door, and top and bottom and vertical side walls, means for securing said framing against said furnace front, an outer supplemental door independently hinged to one of the walls of said framing and forming a supplemental furnace front, and an inner insulating lining secured to the inner surface of said outer supplemental door and having its inner edges adapted to seat against said top and bottom and side walls of said framing when closed, thereby preventing heat radiation from the entire furnace front.

1,473,297. SEED DRILL. LIONEL BARRINGTON KNIGHT, Port Pirie, South Australia, Australia. Filed May 16, 1921. Serial No. 469,784. 7 Claims. (Cl. 111—86.)



1. In a combined fertilizer and seed distributing machine, a fertilizer drill, a combined scraper and seed distributor mounted rearwardly of said fertilizer drill to cover the fertilizer with soil and deposit seed thereover, and a drill-plate at the rear of said seed distributor to form furrows into which the seed is discharged.

1,473,298. ATTACHMENT FOR TRACTORS AND MOTOR VEHICLES. ALFRED W. KNUTSON, Galesburg, Ill., assignor to Alvin V. Bowe, Galesburg, Ill. Filed July 23, 1921. Serial No. 486,949. 8 Claims. (Cl. 74—81.)

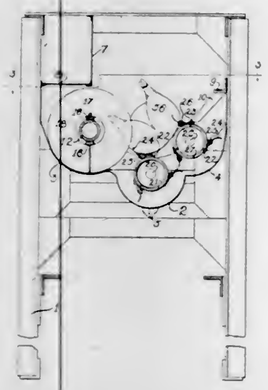


1. In an attachment for tractors or the like, in combination with the foot operated clutch lever, a shaft in operative connection with the fuel feed control, and an operating connection between said shaft and said lever, such connection including means permitting a predetermined oscillation of said shaft without imparting movement to said lever, and also permitting freedom of movement of said lever without actuation of such operating connections.

1,473,299. HOG-DEHAIRING MACHINE. JOHN W. KOHLHEPP, Chicago, Ill., assignor to The Allbright-Nell Company, Chicago, Ill., a Corporation of Illinois. Filed July 28, 1922. Serial No. 578,032. 6 Claims. (Cl. 17—16.)

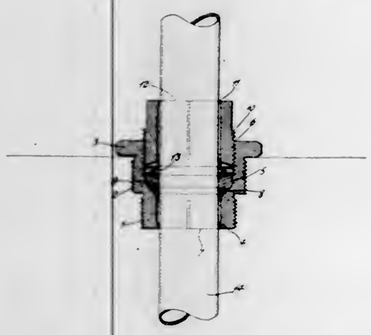
1. A carcass dehairing machine comprising parallel carcass supporting beater mechanisms disposed at different elevations, a deep spiral feed disposed parallel

to the beater mechanisms, and mechanisms for rotating said beater mechanisms and said spiral feed in the same



direction to cause rotation and cleaning of a carcass by the beater mechanisms as the spiral feed advances the carcass through the machine.

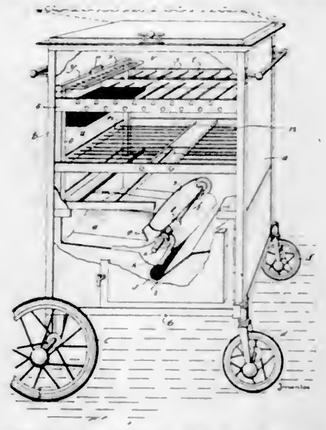
1,473,300. BUNG. CHARLES M. KRUGER, St. Louis, Mo., assignor to Parbse Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 23, 1922. Serial No. 546,112. 4 Claims. (Cl. 285—39.)



1. A bung, comprising a bushing having an upwardly tapering opening, an enlarged section above said tapering opening, and a threaded upper portion; a split sleeve having an outwardly flaring flange seated in said tapering portion; a threaded sleeve adapted to thread into said threaded portion of the bushing, said sleeve having a downwardly tapering opening; a split sleeve mounted in said tapering opening, said split sleeve having an outwardly flaring flange at its lower end; and a packing ring of elastic material interposed between the inner ends of said split sleeves.

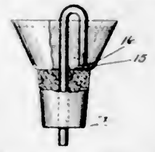
1,473,301. DISHWASHING MACHINE. JARED S. LAPHAM, Northville, Mich., assignor of one-half to James T. McMahon, Toledo, Ohio. Filed July 31, 1920. Serial No. 400,348. 3 Claims. (Cl. 141—9.)

3. A dish-washing machine having in combination a container, means for the support of dishes therein, a trough in the bottom of said container, a shaft rotatable within said trough, a pair of helicoidal blades of opposite twist and of a length materially less than said



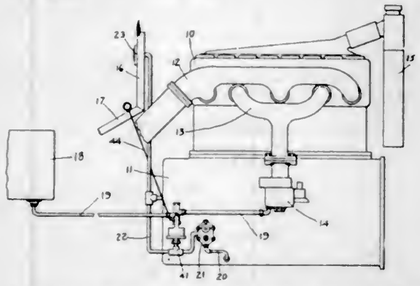
trough attached to said shaft, and means for returning the liquid on the discharge side of said trough to the ends thereof and beyond said blades.

1,473,302. WATER SEAL FOR CONTAINERS. HERMAN F. LEICHTFUSS, Milwaukee, Wis. Filed Nov. 9, 1922. Serial No. 599,797. 2 Claims. (Cl. 215—56.)



1. The combination of a basin, a pipe extending through an opening in the bottom thereof, a stopper enveloping said pipe below said bottle, means for conducting gases escaping through said pipe downwardly to the bottom of said basin, said basin being adapted to contain water, and a valve cooperating with said means for preventing the return of fluid through said pipe.

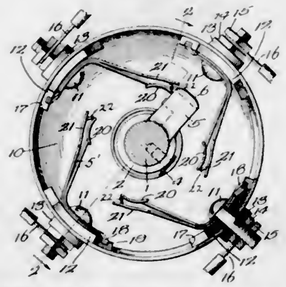
1,473,303. FUEL CONTROL FOR INTERNAL-COMBUSTION ENGINES. WILLIAM L. LIGHTFORD, Indianapolis, Ind. Filed Aug. 19, 1921. Serial No. 493,752. 3 Claims. (Cl. 123—196.)



1. The combination with an internal combustion engine having a pressure feed oiling system therefor, an oil line, and an oil pump for producing pressure therein, of a fuel line for supplying fuel to said engine, a

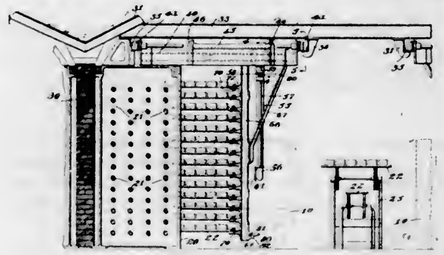
valve in said fuel line, a stem upon which said valve is mounted, a cylinder into which said stem is adapted to extend, a piston positioned on said stem, and an oil pressure line connected with said cylinder whereby the pressure exerted by said oil will operate said piston for opening said valve.

1,473,304. SWITCHING DEVICE. CHARLES L. LILLEBERG, Chicago, Ill. Filed Apr. 23, 1919. Serial No. 292,112. 8 Claims. (Cl. 200—24.)



3. An electrical switching device comprising relatively rotatable members one within the other, contact supports projecting respectively from the interior and exterior of said members with their free ends spaced longitudinally of the members, one of said supports comprising contiguous spring arms each having a lateral extension on its free end directed toward the other support and forming separable spring contacts, and a lateral extension on the free end of the other support directed toward the first named support and forming a contact receivable between the first named contacts.

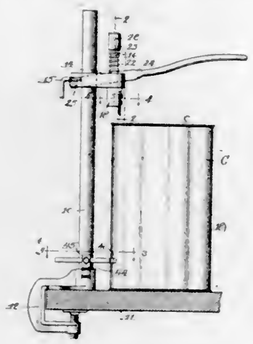
1,473,305. BRICK-PALLET-HANDLING APPARATUS. GRAFTON E. LUCE, Chicago, Ill., assignor to American Equipment Company, Chicago, Ill., a Corporation of Ohio. Original application filed Aug. 25, 1919, Serial No. 319,707. Divided and this application filed Mar. 2, 1920. Serial No. 362,649. 5 Claims. (Cl. 214—1.)



1. Apparatus of the kind described, comprising a movable support, a plurality of clamps carried by said support, said clamps being spaced approximately equal to the distance between the pallet receiving pipes in a steam pipe drier, and means for moving the clamps to engage and hold a plurality of pallets under substantially equivalent holding tension.

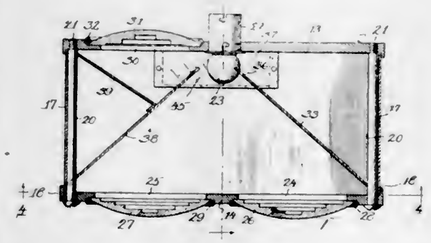
1,473,306. RECIPROCATING KNIFE CAN OPENER. JOHN THOMAS MCGRATH, Bloomington, Ill. Filed Aug. 6, 1921. Serial No. 490,429. 9 Claims. (Cl. 30—3.)

1. A can opener comprising a standard having means to fix it to a support, a bracket vertically adjustable on said standard, and provided at its inner end with a plunger bearing, with means to lock it in vertical adjustment on said standard, a plunger slidable in said bearing and provided below said bearing with a knife mounting head, and above said bearing with an abut-



ment, a spiral spring surrounding the plunger between said bracket and said abutment to hold said head upwardly against the bracket, a lever pivoted to said bracket, and a link connected to said lever and extending therefrom for connection to said plunger.

1,473,307. COMBINATION VEHICLE LAMP. JOHN THOMAS MCGRATH, Bloomington, Ill. Filed Aug. 19, 1921. Serial No. 493,523. 8 Claims. (Cl. 240—7.)

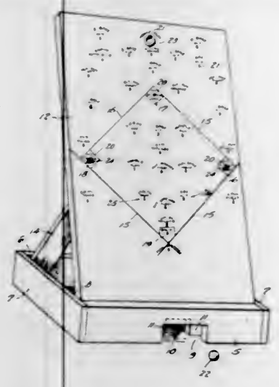


1. A combination vehicle lamp comprising a casing provided with openings and with lenses thereover, one of which lenses is a tinted tail light lens, a source of light in the said casing, said lens covered openings being arranged to function, one as a forward throw parking lens, and the others as a rearward throw tail light lens and a rearward throw spot light lens, the means within said casing, whereby, when the point source of light fails, exterior light entering the lamp casing illuminates said tail light lens.

1,473,308. BASEBALL GAME DEVICE. CECIL C. MARTIN, Seattle, Wash. Filed Apr. 18, 1921. Serial No. 462,278. 1 Claim. (Cl. 46—59.)

A game apparatus of the character described, comprising a rectangular base frame provided with a transverse partition having an aperture therein, said frame being provided with an aperture located in front of the partition aperture, a substantially vertical game board detachably connected to said frame, said game board having marked thereon a substantially diamond shaped figure, pegs provided in the corners of said figure, hooks

provided on said game-board at other locations than said corners, insignia marked on the game-board for the



respective hooks, balls adapted to be rolled through said apertures, quoits for said hooks, and markers adapted to be attached to said pegs.

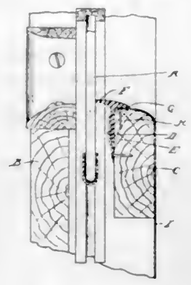
1,473,309. MANUFACTURE OF HYDROMETERS. MAX E. MOELLER, Brooklyn, N. Y. Filed Oct. 29, 1917. Serial No. 199,015. 12 Claims. (Cl. 265—45.)



1. An article of the character described, comprising a tube of hard elastic transparent material of low fusibility, said tube being composed of sheet material having its longitudinal edges united and forming a cylinder, a removable cap on one end of said tube, and a weighting substance in said cap fusible at a lower temperature than the material of the cap.

1,473,310. WINDOW STRIP FOR VEHICLE WINDOWS. STANLEY W. NICHOLSON, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Delaware. Filed Apr. 3, 1922. Serial No. 548,892. 5 Claims. (Cl. 20—69.)

1. The combination with a vertically slidable window closure, of a sill member extending exteriorly of said closure, a weather strip formed of resilient material having a supporting portion engaging a face of said sill member opposing said sliding closure, and having an

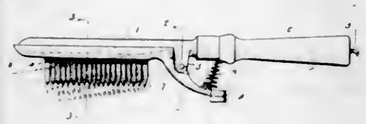


upper closure engaging portion, and means secured to said sill member clamping said supporting portion of the weather strip against said face.

1,473,311. SUSPENSION SUPPORT FOR BEDS AND THE LIKE. MICHAEL O'FLANAGAN, Roscommon, Ireland. Filed June 12, 1922. Serial No. 567,750. 7 Claims. (Cl. 114—192.)

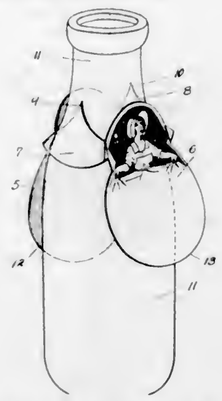
1. In combination with a freely swinging bed supporting means therefor, arranged tetrahedrally, said means being pivotally connected at opposite edges to the supporting structure and the bed respectively.

1,473,312. CURLING IRON. CETAL PASSARD, New York, N. Y. Filed Nov. 10, 1922. Serial No. 600,116. 2 Claims. (Cl. 132—35.)



2. A curling iron comprising a shaft having a portion reduced to form a laterally disposed rib, and a clamp member pivoted to the shaft and adapted to embrace a portion thereof and obtain a close fit beneath the said rib, whereby adjacent outer sides of the shaft and clamp member are flush, said clamp member being provided along the side adjacent the rib with teeth which curve laterally towards the opposite side.

1,473,313. DISPLAY DEVICE. CHARLES D. PIATT, Kansas City, Mo. Filed Mar. 24, 1923. Serial No. 627,283. 3 Claims. (Cl. 40—4.)



2. A display device comprising two diametrically opposite vertical skirt members connected by webs at substantially right angles thereto, the webs having upwardly extending bottle neck engaging points.

1,473,314. AIR COMPRESSOR. LORETO POCCIA, Mamaroneck, N. Y. Filed June 16, 1923. Serial No. 645,898. 5 Claims. (Cl. 230—27.)



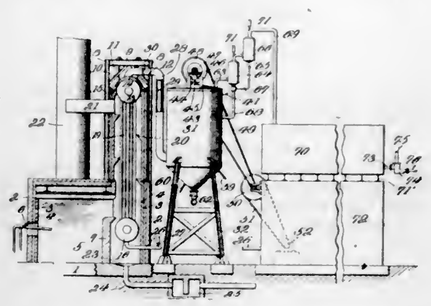
2. In a gas engine for vehicles, a cylinder, a piston operating therein, a cylinder head the inside surface of which is in close proximity of the piston when fully raised, an air inlet to said cylinder, a spring pressed valve therein, a cam for opening said valve twice during each revolution of the cam, an outlet from said cylinder leading to a compressed air storage tank, and a spring pressed valve in said outlet and responsive to compressed air in said cylinder.

1,473,315. BATH AND MASSAGE BRUSH. EDMON R. POIRIER, San Francisco, Calif. Filed Mar. 23, 1922. Serial No. 546,004. 2 Claims. (Cl. 15—222.)



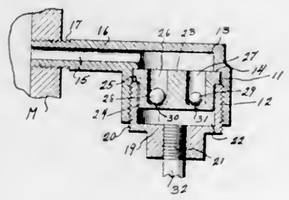
1. A brush comprising a flexible backing, a plurality of sets of bristles secured transversely of said backing and arranged that the flexibility of said backing will not be impaired, extension straps disposed at opposite ends of the backing and detachably connected thereto, a hand strip extending transversely of the backing and secured at its ends thereto, the ends of the backing being of a length whereby they may be folded over the backing and their contiguous ends detachably connected beneath the hand strap.

1,473,316. PROCESS OF PRODUCING LOW-BOILING OILS. GEORGE L. PRICHARD and HERBERT HENDERSON, Port Arthur, Tex., assignors to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Texas. Filed Nov. 19, 1921. Serial No. 516,374. 15 Claims. (Cl. 196—25.)



1. The process of converting higher boiling oils into lower boiling oils which comprises establishing and maintaining a boiling body of higher boiling oil and aluminum chlorid, conducting vapors of lower boiling oils formed away from such body, and supplying additional high boiling oil substantially in liquid form to said body at a temperature higher than the boiling point of the body.

1,473,317. AUXILIARY AIR DEVICE. VERNON C. RANDALL and JAMES E. MCGINLEY, Portsmouth, Va. Filed May 22, 1922. Serial No. 562,891. 1 Claim. (Cl. 277—46.)

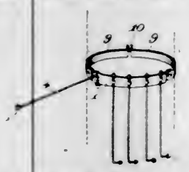


In an auxiliary air device, a chamber comprising a cap having an outlet adapted for connection with the intake manifold of an internal combustion engine, said cap having a bore provided with a reduction communicating with said outlet, the reduction forming a shoulder, said bore being screw-threaded, a body externally screw-threaded for engagement with the screw-threads of said bore, said body having a bore and an inlet communicating with said bore, an insert fitting the bore of the cap and having a reduction fitting the bore of the body, said insert being provided with a plurality of vertical bores each communicating at its lower end by a port with the bore of the body, and check valves of varying weights disposed within said bores and normally closing said ports.

1,473,318. RACK DEVICE. ADOLPH RANSON, South Charleston, W. Va. Filed June 15, 1922. Serial No. 568,365. 2 Claims. (Cl. 126—342.)

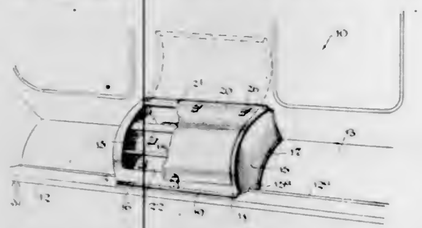
1. A rack device of the class described comprising a supporting strip having a loop projecting from the face thereof substantially midway of the side edges and a groove at opposite sides of said loop, a rack bar slidably received in said loop and groove and provided with an

angularly bent end to engage across the face of the strip, and a head at the bent end of the bar to engage



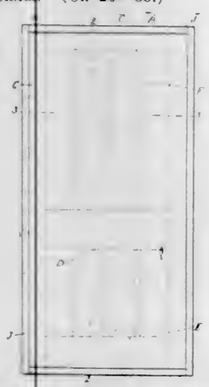
the lower edge of the strip when the bar is moved into horizontal position to prevent vertical displacement of the bar from the loop.

1,473,319. TOOL BOX. STERLING P. RAY, Urich, Mo., assignor of one-half to Francis M. Kemp, Urich, Mo. Filed Sept. 25, 1922. Serial No. 590,425. 2 Claims. (Cl. 224—29.)



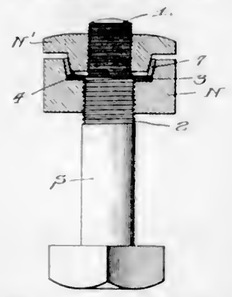
2. A tool box for use on automobiles having a body, a running board and a mud guard between the running board and the body, said tool box comprising a casing including end plates secured to the mud guard and resting on the running board, the portion of the running board comprehended between the end plates constituting the bottom of the tool box, a top frame integral with the end plates, said top frame being substantially open, a swinging cover adapted to close the substantially open top frame or to leave the same open to permit of access to the interior of the box and a plurality of shelves extending lengthwise between and secured to the end plates and arranged in spaced relation above the bottom of the tool box.

1,473,320. DOOR. HARRY TUCKER RIPPER, Castle Hedingham, England. Filed Feb. 21, 1923. Serial No. 620,359. 1 Claim. (Cl. 20—35.)



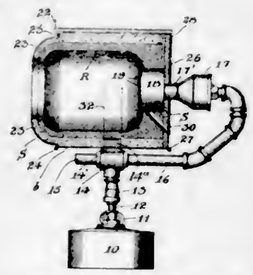
A door of the type described comprising a frame consisting of solid fluted stiles, and solid horizontal fluted rails, a plurality of bars of small diameter fixed to said frame and spaced apart from each other, a sheath of plywood coextensive with the frame secured directly thereto and to the said bars on each side thereof, the several parts being arranged so that the plywood engages each of the underlying parts so that the areas of the surfaces of contact between the plywood and the underlying parts are relatively small, recesses formed around the outer edges of each of the plywood sheaths and reinforcing fillets or strips secured in said recesses.

1,473,321. NUT AND BOLT LOCK. MICHAEL R. RUMFELT, South Lima, N. Y. Filed Feb. 24, 1923. Serial No. 621,030. 6 Claims. (Cl. 151—15.)



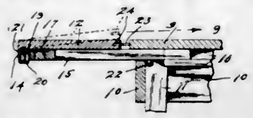
1. In combination, a shank having an inner threaded portion and an outer reduced threaded portion, a nut engageable with each of said threaded portions, the opposed face of one of said nuts being provided with a socket and the opposed face of the second nut being provided with a flange extending within said socket, and a washer interposed between the outer walls of the socket and the flange.

1,473,322. GAS HEATER. ANTHONY V. SANTARSIERO, New York, N. Y. Filed Feb. 10, 1923. Serial No. 618,383. 7 Claims. (Cl. 126—86.)



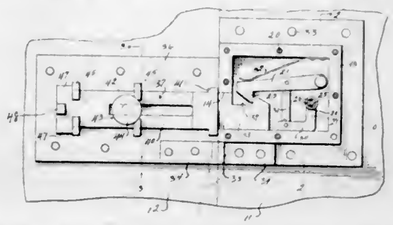
1. In a gas heater, the combination of a burner, a cylindrical casing into one end of which the burner enters, said casing being divided into sections, one of said sections being swingable on a pivot extending transversely to the axis of said body and the other sections being swingable on axes parallel to the axis of said casing.

1,473,323. EXTENSIBLE-LEAF TABLE. FRIDOLIN SCHIMMEL, Faribault, Minn. Filed July 10, 1922. Serial No. 573,863. 7 Claims. (Cl. 45—113.)



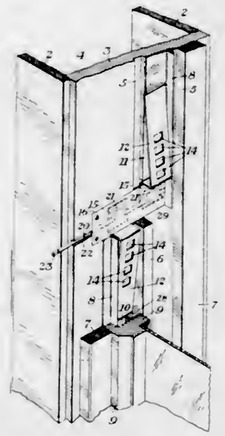
1. The combination with a suitably supported table top and a slide horizontally movable under the same but held against vertical movement, of an extension leaf carried by said slide but connected thereto for vertical movements so that it may, at will, be aligned with the table top or placed in position on the top thereof.

1,473,324. LOCK FOR SLIDING DOORS. CHARLES A. SCHMIDTT, Anaconda, Mont., assignor of one-fourth to John E. Eastman, jr., Anaconda, Mont. Filed Dec. 23, 1922. Serial No. 608,697. 3 Claims. (Cl. 70—31.)



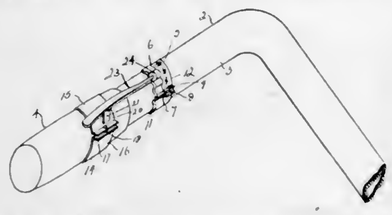
1. In a lock of the type described, a casing having an opening affording access thereto, opposed walls of the casing having formed therein aligned sockets, a lever provided at one end upon opposite sides thereof with hub portions adapted to engage in said sockets and provided upon its free end with a locking bar engaging shoulder, a spring normally urging the free end of said lever in one direction, a rotatable locking part, a lever carried by the locking part and having a portion flatly engaging a side wall of the casing to limit the rotation thereof in one direction, and a link pivoted to the lever of the locking part and to the first named lever.

1,473,325. SASH FASTENER. JOSEPH F. SCHWER, Pittsburgh, Pa. Filed Nov. 15, 1921. Serial No. 515,248. 7 Claims. (Cl. 292—19).



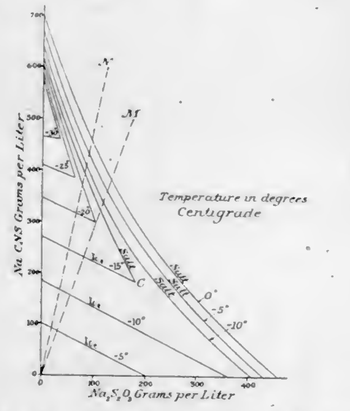
1. In a sash fastener adaptable for use with sashes cooperating with a weather strip, the combination with a window frame and the sashes movable vertically therein, of a locking member angular in cross section secured to one edge of each of the sashes whereby a portion thereof underlies the ends of one of the sash ropes connected to each of said sashes, said members each having a plurality of projections thereon extending outwardly substantially flush with the edges of the sash bodies, said sash bodies each having a groove therein at one side of said members for receiving weather strips, a pair of oppositely disposed resilient locking members each having one end secured to the frame, said frame being recessed to receive the same, and said resilient members each having a plurality of locking openings adapted to receive the projections on said first mentioned locking members, and means for moving said resilient members to inoperative position, substantially as described.

1,473,326. HANDLE ATTACHMENT FOR MOTOR CYCLES. MIKE SLAWIENSKI, Camden, N. J. Filed Mar. 29, 1923. Serial No. 628,542. 4 Claims. (Cl. 74—82.)



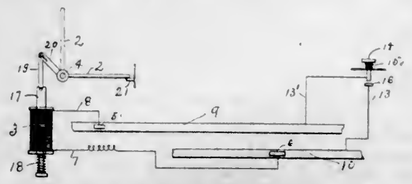
1. A handle attachment for motor cycles comprising, in combination, a corrugated ring for attachment to a handle bar adjacent the rotatable grip, a supporting ring for attachment to said grip, a spring actuated lever carried by the supporting ring and having one end overlying the corrugated ring, and a wheel journalled on said overlying end for coaction with the corrugated ring to hold the grip in any adjusted position.

1,473,327. ANTIFREEZE COMPOSITION. FREDERICK WILLIAM SPERR, Jr., Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 7, 1921. Serial No. 520,520. 13 Claims. (Cl. 252—5.)



1. An anti-freeze composition containing a soluble thiocyanate and a soluble thiosulphate, substantially as described.

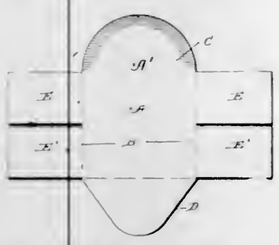
1,473,328. CAR DOOR. SAMUEL THOMAS WALKUP, New York, N. Y. Filed Oct. 20, 1921. Serial No. 509,122. 4 Claims. (Cl. 105—341.)



2. The combination with a track and car thereon provided with a door, of a solenoid for operating the door in one direction, a spring for moving the door in the con-

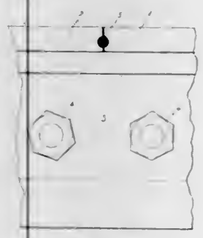
trary direction, conductors making circuit through said solenoid from a common third power rail and back to the latter and a manually operable switch interposed in the circuit.

1,473,329. ENVELOPE. CHARLES R. WILLIAMS, Omaha, Nebr. Filed Mar. 13, 1920. Serial No. 365,532. 1 Claim. (Cl. 229—72.)



An envelope formed from a single piece of material, said envelope comprising a rectangular body portion, spaced flaps extending outwardly from one side of said body portion, spaced flaps extending outwardly from the opposite side of the body portion and in alignment with the first mentioned flaps, the flaps at the opposite sides of the body portion being adapted to fold onto each other so that their ends will overlap thereby forming pockets in combination with the body member after the body member has been folded on itself on a line in registration with the spaces between the flaps, an outwardly extending flap carried by one side of the body member and disposed between the flaps and at an angle thereto and adapted to be received in the pocket formed at the opposite end of the body member, and a gummed securing flap for engaging over the outwardly extending flap and securing to the outer side of the body member adjacent the first mentioned flap.

1,473,330. RAIL JOINT. MIGUEL ALVAREZ, Santiago, Chile. Filed Apr. 10, 1920. Serial No. 372,949. 2 Claims. (Cl. 238—179.)



1. In a rail joint, the combination with the ends of two rails arranged end to end and having heads provided with oppositely disposed transversely arranged horizontal recesses extending inwardly from one side of the heads, of a solid bridge plug arranged in said recesses and designed to prevent relative vertical movement of the ends of the rails.

1,473,331. FILTER. HEINRICH BECHHOLD, Frankfort-on-the-Main, Germany. Filed Aug. 29, 1922. Serial No. 585,087. 5 Claims. (Cl. 210—203.)

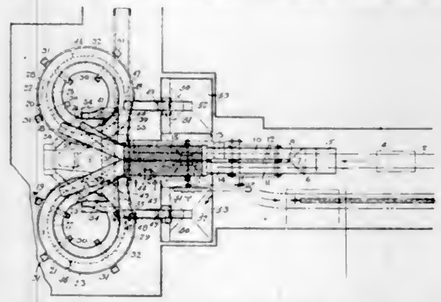
3. A filter impregnated with at least two metals of lower solution tension than hydrogen and of higher solution tension than platinum, one of said metals being in predominant quantity.

1,473,332. DETECTION OF SUBMERGED OBJECTS. ELOF BENSON, Newton Highlands, Mass., assignor of one-half to Francis H. Williams, Boston, Mass. Filed Jan. 21, 1918. Serial No. 212,923. 5 Claims. (Cl. 181—0.5.)



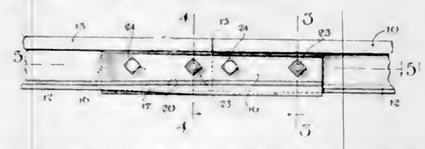
1. The art of detecting the bearing of a submerged object comprising creating a submarine sound at a known position, and simultaneously observing the submarine acoustic shadow of the submerged object and the bearing of said known position.

1,473,333. PICKING TABLE. ROSS M. BICKLEY, Pittsburgh, Pa., assignor to Heyl & Patterson, Inc., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 24, 1919. Serial No. 340,341. 8 Claims. (Cl. 83—54.)



1. The combination of a pair of annular rotating horizontal hand picking tables, means for delivering coal thereto and means for shifting the direction of movement of the coal to one or the other of said tables.

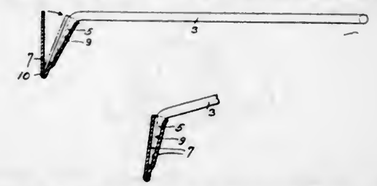
1,473,334. RAIL JOINT. JOHN R. BUTLER, Montgomery, W. Va., assignor of one-third to T. B. Chaffin, Montgomery, W. Va. Filed Mar. 18, 1922. Serial No. 544,762. 1 Claim. (Cl. 238—237.)



In a device of the kind described, a rail body having a squared end and provided with a web and a pair of flanges, and a combined fish plate and chair formed integrally with the web and one of the flanges and extending beyond said squared end, the web of the rail body being gradually and uniformly thickened from a point spaced from the squared end to said end and the part beyond the squared end being of equal cross sectional dimensions with the greatest increase of the web to form a fish plate portion, the flange being similarly increased in thickness and similarly having the part beyond the squared end of the same cross sectional dimension as the greatest increase in thickness exteriorly and provided with a groove to receive the flange of an opposed rail end, said groove being tapered to receive the gradually thickened flange whereby said flange is wedged in said groove.

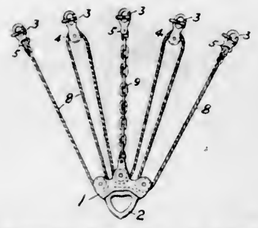
1,473,335. ATTACHMENT FOR UTENSILS. EDWARD M. CHANDLER, New Kensington, Pa. Filed Jan. 21, 1922. Serial No. 530,949. 3 Claims. (Cl. 53—7.)

1. An attachment for a cooking or other utensil of a different metal from that of the utensil, said attachment having a downwardly extending enlarged inner end portion, a plate of the same material as said utensil



having a seat to receive said enlarged portion of said attachment, said plate being bent to enclose said enlarged portion and welded to said utensil.

1,473,336. SCENERY TRIMMER. HENRY A. CONNELLY, Philadelphia, Pa. Filed Nov. 11, 1922. Serial No. 600,235. 1 Claim. (Cl. 254—141.)

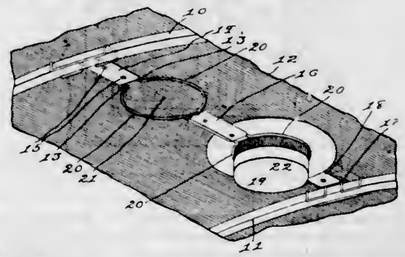


A scenery trimmer adapted for use with three, four and five line sets and comprising the combination of a three-pulley multiple block having counterweight provisions, a series of five scenery line couplings arranged in spaced relation with the block and of which two are provided with single blocks and of which the other three are provided with dead-eyes, a rope or cable reeved through said blocks with its ends attached to two of the dead-eyes, and a second cable attached to the center of the multiple block and to the fifth dead-eye.

1,473,337. ATMOSPHERIC COMPOUND FOR DIVERS' USE. CHARLES JOHN COOKE, Washington, D. C. Filed Aug. 15, 1919. Serial No. 317,838. 2 Claims. (Cl. 167—7.)

2. A respirable compound for divers' use comprising oxygen and helium as a gaseous diluent, the oxygen being in a proportional amount substantially proper for respiratory purposes.

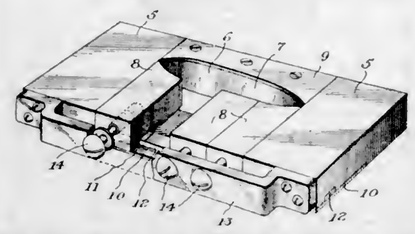
1,473,338. HAT CARRIER FOR AUTOMOBILES. LEWIS PHILLIP CROSE, Carnegie, Okla. Filed Nov. 12, 1921. Serial No. 514,546. 1 Claim. (Cl. 45—13.)



In a device of the class described, an elongated holding device adapted to reach from one bow portion of an automobile top to another bow portion, said device including two rod portions arranged in parallel and

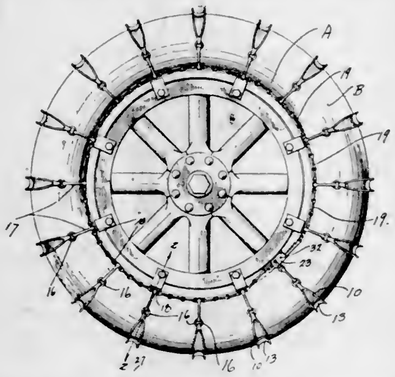
shaped at their ends to hook over said bow portions, the rod portions being centrally curved to form an embracing ring to receive the crown of a hat and having their uncurved portion collectively embraced by connecting clamps.

1,473,339. MATRIX. DAVILA S. DU BRUL, Cincinnati, Ohio, assignor to The Miller, Du Brul & Peters Manufacturing Company, Cincinnati, Ohio. Filed July 17, 1919. Serial No. 311,420. 2 Claims. (Cl. 131—39.)



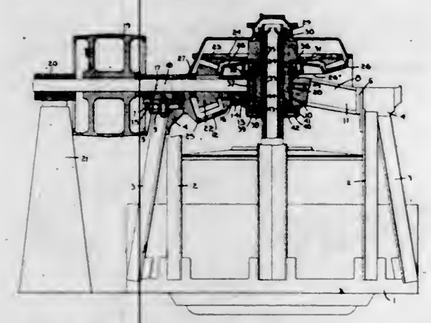
1. In a device of the character described, a frame, means carried by the frame for adjusting the area of the matrix opening, comprising a plurality of independently adjustable, horizontally sliding blocks, said blocks forming one side wall of the matrix, means on the frame for limiting the adjustment of the blocks, a bar carried by the frame, and means carried by each one of the blocks having an adjustable engagement with said bar for selectively adjusting any one of the blocks.

1,473,340. TIRE CHAIN. HAROLD C. FISHER and THEODORE O. CLARK, Lone Star, Kans. Filed May 10, 1920. Serial No. 380,404. 4 Claims. (Cl. 152—14.)



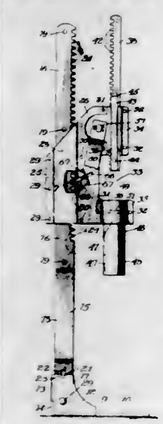
2. In a tire chain, the combination of a plurality of traction elements, each of said traction elements being concavo convex throughout its length to snugly fit the tire, and concavo-convex in transverse cross section substantially throughout the length thereof, the apex of said last mentioned convexity being on the longitudinal axis of said traction element and adapted for normally abutting the tire, said last mentioned convexity being regularly formed from side to side of said traction element to permit rocking thereof upon a tire, the transverse cross section of each of said elements being greatest intermediate the ends thereof, and from which point the cross section gradually diminishes toward the ends thereof; and flexible means for securing the traction elements in spaced relation upon the tire for rocking movement.

1,473,341. GRINDING MILL. WILLIAM A. GIBSON and CHARLES E. NEEDHAM, Allentown, Pa., assignors to Bradley Pulverizer Company, Boston, Mass., a Corporation of Maine. Filed Nov. 16, 1921. Serial No. 515,509. 14 Claims. (Cl. 74—7.)



1. In a centrifugal grinding mill having a grinding chamber, a vertical roll actuating shaft, a frame comprising standards located on opposite sides of said grinding chamber having girder receiving saddles, a girder having an aperture for said roll actuating shaft and sections complementary to said saddles adapted to be seated therein, and means for securing said girder sections rigidly to said saddles.

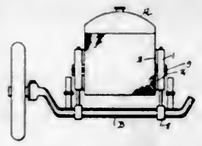
1,473,342. BOTTLE-CLOSURE-APPLYING DEVICE. SIGMUND L. GOLDMAN, Chicago, Ill. Filed Jan. 26, 1922. Serial No. 531,958. 8 Claims. (Cl. 226—89.)



2. In a bottle-corking device, the combination of a head provided with a cork-guide, a plunger adapted to be moved in said cork-guide, said plunger having a bar-portion guidingly engaging said head and a finger secured at its lower end to said bar and located exteriorly of said head, said finger being provided with a stop surface adapted to engage said cork-guide for limiting movement of said plunger in said guide.

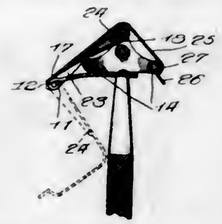
1,473,343. SHOCK ABSORBER. ISAAC O. HAINES, Pittsburgh, Pa. Filed Aug. 7, 1922. Serial No. 580,190. 6 Claims. (Cl. 267—9.)

1. In a device of the character described, a casing, a block slidable through the casing and provided with an opening tapering toward the ends of the block, means for securing the block to the axle of a vehicle, the casing being adapted for securement to the body of the



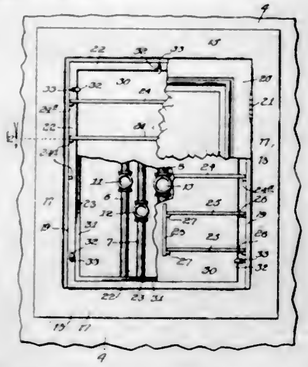
vehicle, and means within the opening of the block and coacting with the walls thereof for resisting movement of said block in either direction through the casing.

1,473,344. SAFETY RAZOR. ISAAC L. HENDRICKS, Chattanooga, Tenn. Filed Mar. 24, 1923. Serial No. 627,443. 3 Claims. (Cl. 30—12.)



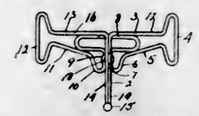
1. In combination with a razor head having spaced flanges forming a blade support, and having extending therebetween rollers for guiding a strop for use in stropping the blade while in position upon the head, a cover plate covering said blade when in shaving position, pivotally connected to the head and having a resilient extension having a nose piece engaging one of said rollers during the closing movement of the guard plate, and adjacent the nose piece with a shoulder engaging the roller when in closed position to lock the cover against the turn movement.

1,473,345. CABINET. GEORGE H. HESS, La Grange Park, Ill. Filed Oct. 7, 1922. Serial No. 593,007. 1 Claim. (Cl. 20—1.11.)



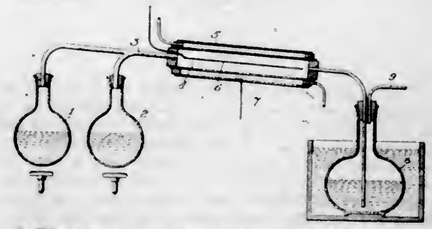
In combination, a wall containing an opening, pipes, with controlling means therefor, located in said wall, said controlling means being located at said opening, and a cabinet extending across said opening at its rear side and a plate-like member located at said opening and adapted to be moved into and out of a position in which it extends across said opening.

1,473,346. TIE FORM OR HOLDER. WILHELM HILS, Philadelphia, Pa. Filed July 29, 1922. Serial No. 578,333. 3 Claims. (Cl. 24—56.)



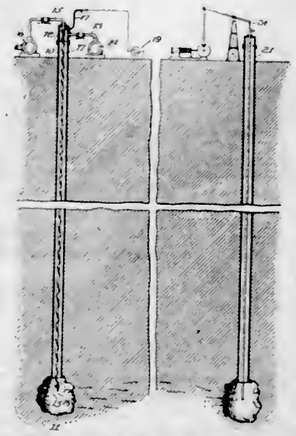
1. A tie holder comprising oppositely projecting wings, a vertical elongated loop at the outer end of each wing, a horizontal elongated loop disposed intermediate the first named loops, and an inclined tongue projecting from the meeting point of said wings at a point above the horizontal elongated loop.

1,473,347. ART OF PRODUCING CHEMICAL REACTIONS. WILLIAM HOSKINS, Chicago, Ill. Filed July 21, 1921. Serial No. 486,347. 3 Claims. (Cl. 204—31.)



1. The step in the manufacture of condensation resin consisting in treating a stream of phenolic and methylene bodies in the gaseous phase with a silent discharge and collecting the treated products.

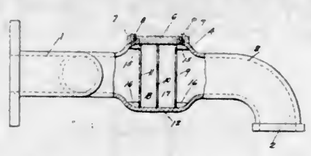
1,473,348. METHOD OF OPERATING OIL WELLS. FRANK A. HOWARD, Elizabeth, N. J., assignor to Standard Development Company, a Corporation of Delaware. Filed Aug. 9, 1920. Serial No. 402,334. 5 Claims. (Cl. 166—21.)



1. The method of operating oil wells consisting of closing the top of a central well, pumping air and a combustible gas into said well, producing combustion therein, and pumping the surrounding wells.

1,473,349. GAS MIXER. ROBERT KACH, Portland, Oreg. Filed Apr. 1, 1921. Serial No. 457,625. 4 Claims. (Cl. 48—180.)

1. A gas mixer of the kind specified, comprising the combination with a pipe, and a mixer chamber therein having, as set forth, a relatively greater capacity than the pipe, of a series of baffle-plates in said chamber each plate having a group of apertures in it, the individual

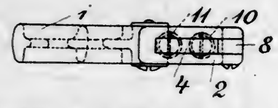


apertures of each plate being disaligned from those of the next adjacent plates, the area of each group being substantially equal to the cross-sectional area of the pipe.

1,473,350. METHOD OF EFFECTING SOLUTION OF SUBSTANCES AND REMOVING COATINGS FROM BODIES. VICTOR LENHER, Madison, Wis. Original application filed Jan. 7, 1921, Serial No. 435,730. Divided and this application filed Nov. 28, 1921. Serial No. 518,439. 5 Claims. (Cl. 87—5.)

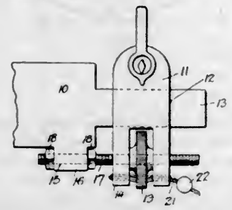
1. The method of effecting the separation of saturated and unsaturated hydrocarbons from each other, which comprises subjecting the same to the action of a solvent comprising selenium oxychloride.

1,473,351. ADJUSTABLE LIMIT GAUGE. CARL WILHELM LUNDIN, Sundbyberg, Sweden, assignor to Aktiebolaget Precisionsmätt, Sundbyberg, Sweden, a Corporation of Sweden. Filed July 8, 1921. Serial No. 483,317. 2 Claims. (Cl. 33—143.)



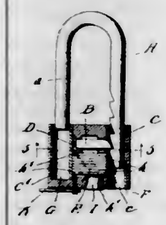
1. An adjustable limit gauge comprising a body having forked extremities, gauging members mounted in the forked extremities of said body, one of said gauging members being rectangular in cross section and adjustably fitted in the forked extremity of the body and the other gauging member consisting of two abutting parts, the cross sectional area of the last mentioned two-part gauge member being the same as the cross sectional area of the first gauging member, spacing members fitted in the forked extremities of the body and engaged with the gauging members, and screws fitted in said forked extremities having inclined portions acting, when said screws are advanced to frictionally clamp the gauging members in the forked extremities and also acting to draw the branches of the respective forks together to cause the latter to clamp the gauging members.

1,473,352. ADJUSTABLE LOCKING AND SEALING DEVICE FOR USE ON SCALES. JOSEPH J. MAGRADY, Chicago, Ill. Filed July 12, 1922. Serial No. 574,500. 4 Claims. (Cl. 265—49.)



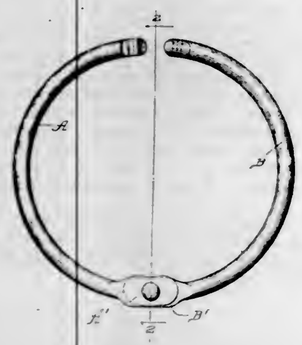
1. A scale lever having a nose iron adjustable thereon and also having an adjusting rod, and an adjusting wheel threaded on said rod and mounted in the nose iron, and means for locking the adjusting wheel in adjusted position.

1,473,353. PADLOCK WITH NONREVERSIBLE SHACKLE. GEORGE M. MILLER, Lancaster, Pa., assignor to Fraim-Slaymaker Hardware Co., Inc., Lancaster, Pa., a Corporation of Pennsylvania. Filed Apr. 18, 1922. Serial No. 554,457. 3 Claims. (Cl. 70—108.)



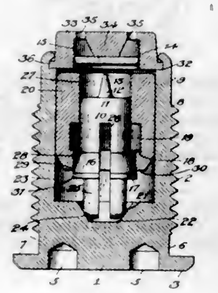
1. A padlock comprising a casing member and a nonreversible shackle removably inserted therein together with locking means operable by inserting a key in one end of the casing, the latter having an opening therethrough at one side and a socket at the other side thereof extending parallel with said opening the greater part of its length, said socket being closed at the end thereof adjacent the exit end of said opening, and said shackle having a short leg adapted to be inserted in said socket and a long leg adapted for insertion in said opening and to protrude therethrough when said short leg reaches the closed end of said socket, said long leg being provided with a series of notches adapted to be engaged by said locking means and locked in different positions.

1,473,354. TEMPORARY BINDER RING. NORMAN D. NACHTRIEB, Chicago, Ill., assignor to Henry T. Adams, Chicago, Ill. Filed Nov. 24, 1922. Serial No. 602,969. 1 Claim. (Cl. 129—1.)



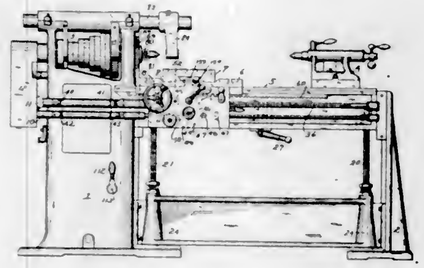
A ring of the character described, comprising a pair of ring sections having flattened tapered pivotally connected end portions whereby the free ends are offset a portion of the thickness thereof when separated, complementary hook-shaped extremities upon the free ends of said sections each extremity comprising a beveled outer surface and a base parallel therewith, a shank of substantial length and a hook having its rear engaging surface undercut adjacent said shank whereby separating stresses upon said ring while closed will tighten the engagement of said extremities.

1,473,355. MINOR-CALIBER FUSE. EDWARD R. PILLARS and HENRY C. LEESBERG, Fostoria, Ohio. Filed Jan. 12, 1918. Serial No. 211,656. 15 Claims. (Cl. 102—39.)



8. In a percussion fuse for shells or projectiles the combination of a case having a chamber therein, an explosive element, a plunger body adapted to slide in said chamber and having a central passage therethrough, a second shallow one of larger diameter and a third one of larger diameter than the second and materially deeper thereby forming locking means, a firing pin body extending into the plunger body, resilient locking lugs integral with the firing pin and adapted to cooperate with said locking means to lock the firing pin to the plunger in armed position, said firing pin being deformed by the plunger during arming but restoring itself to normal form when armed.

1,473,356. COMBINATION METAL-WORKING MACHINE. WILBER J. PINE, Oshkosh, Wis. Filed Aug. 12, 1918. Serial No. 249,425. 15 Claims. (Cl. 29—27.)



6. In a lathe mechanism provided with a table, longitudinally movable carriage, spindle, and back gear mechanism, the combination of a slide supported by the table, and detachably connected with the carriage, slide actuating mechanism adapted to reciprocate the slide and carriage along the table, and separate carriage actuating and reversing mechanism operative independently of the slide.

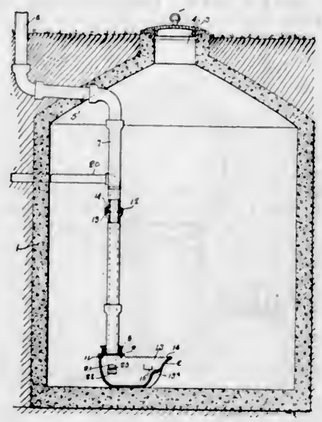
1,473,357. TOOTHBRUSH. ABRAHAM PLETMAN, Schenectady, N. Y. Filed Oct. 23, 1922. Serial No. 596,490. 5 Claims. (Cl. 132—84.)

1. A device of the class described comprising a tooth brush having a handle, a reflecting surface and a readily detachable connection between said surface and the end of said handle opposite the brush portion, both said



brush and said reflecting surface being adapted to be used while interconnected.

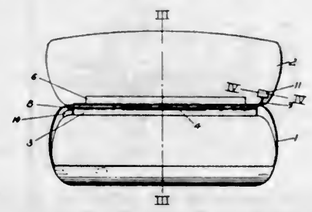
1,473,358. CISTERN. JOHN P. PROBST, Marion, Ohio. Filed Feb. 23, 1922. Serial No. 538,435. 6 Claims. (Cl. 72—9.)



1. The combination, with an outer or main cistern connected with the water supply, of an inner or supplemental cistern having a receiving opening, a connection between said opening and the cistern supply pipe, an overflow edge or margin, and an outlet opening for the delivery of the water to the place of use.

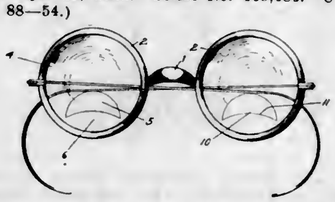
1,473,359. CASE. ELMER L. SCHUMACHER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed July 5, 1921. Serial No. 482,633. 2 Claims. (Cl. 206—6.)

2. A case provided with an eyeglass receiving compartment and comprising a body and a cover therefor, the corresponding adjacent edges of the cover and the body respectively at diagonally opposite portions thereof having pocket members adhesively fastened thereto, interconnected hinge members carried by the body and cover respectively and having tubular rolls registering axially, and a single straight spring pintle passing through said axially registering rolls, said pintle having its end portions bent laterally in corresponding directions, each



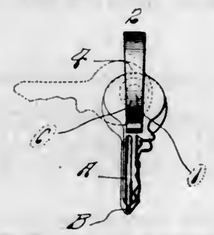
bent portion engaging one of said pockets, said bent end portions being normally parallel whereby the body of the spring pintle twists upon opening the cover, thereby resulting in the cover automatically closing.

1,473,360. LENS. HARRY H. STYLL, Southbridge, Mass. Filed Apr. 29, 1921. Serial No. 465,486. 8 Claims. (Cl. 88—54.)



1. A one-piece bifocal lens having a crescent shaped reading portion intermediately located on the lens, and a distance portion below and partially enclosed by the crescent of the reading portion.

1,473,361. KEY-RETAINING DEVICE. LEWIS B. TEBBETTS, St. Louis, Mo., assignor to L. B. Tebbetts & Company, Incorporated, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 26, 1922. Serial No. 532,057. 4 Claims. (Cl. 24—3.)

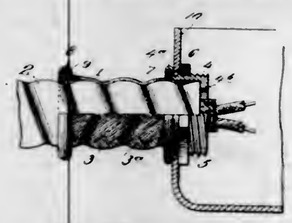


1. A retaining device for a key having a gripping portion provided with an opening and a lock operating portion, comprising a frictional gripping member provided with a portion adapted to extend into said opening in said gripping portion of sad key, said gripping member being located adjacent to said gripping portion of said key whereby said lock operating portion is free to be inserted into a lock.

1,473,362. CONNECTER. ROE E. TILTON, Columbus, Ohio. Filed Mar. 3, 1921. Serial No. 449,373. 9 Claims. (Cl. 247—25.)

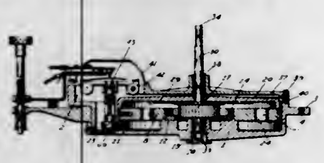
1. A connecter comprising a flexible tubular member adapted to compress to increase its diameter and to elongate longitudinally to reduce its diameter to receive

and retain a conduit or its described equivalent and provided with tubular means to connect said member to



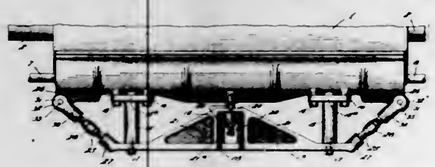
an object for connecting said conduit or its described equivalent thereto, the bores of said member and tubular means being in alignment.

1,473,363. PHONOGRAPH. EDWARD J. TOMLINSON, Newark, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed Jan. 8, 1920. Serial No. 350,219. 13 Claims. (Cl. 172—36.)



10. A self starting phonograph driving mechanism comprising in combination, two telescoping casings, a cover plate for the outer casing, one casing supported by the other and the cover plate and rotatable therein and adapted to carry a sound record support body, a magnetic exciting field structure carried by one casing and a co-acting armature structure in the other casing, a mounting plate and lugs on the stationary casing for attaching the same to the mounting plate.

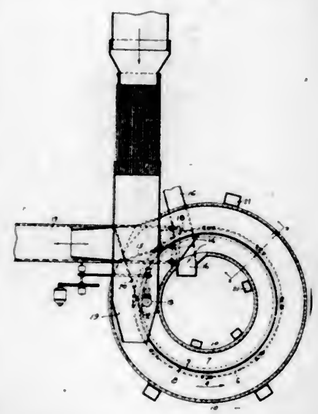
1,473,364. TENSION TRUSS FOR PRESSER BEDS. GEORGE W. VOELKER, Woonsocket, R. I. Filed July 20, 1922. Serial No. 576,311. 5 Claims. (Cl. 26—5.)



1. An adjustable pressing truss for rotary cloth presses of the character described, comprising in combination, a presser bed, an enlarged truss body portion, supporting posts projecting perpendicularly outwardly from said body portion to attach the parallel surfaces of said presser bed and said body portion, and additional adjustable supporting truss members rigidly attaching said body portion to said presser bed.

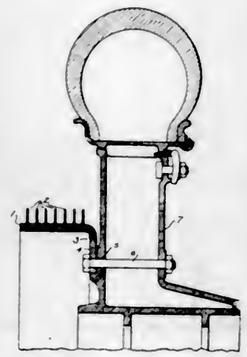
1,473,365. PICKING TABLE. JOSEPH P. VOGEL, Pittsburgh, Pa., assignor to Heyl & Patterson, Inc., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 24, 1919. Serial No. 340,299. 2 Claims. (Cl. 83—54.)

1. An annular picking table, means for rotating same, means for delivering different grades of coal to different zones of said table, a loading boom, means for delivering coal from one of said zones to said loading boom, means for delivering the coal from the other zone in a different



direction, and means for changing the means of direction of the coal from said last named zone to said loading boom.

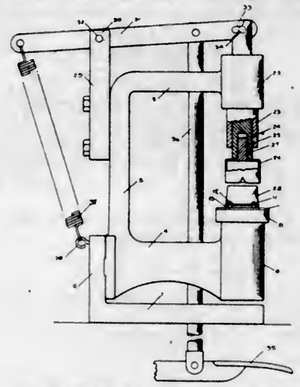
1,473,366. BRAKE DRUM. GEORGE WALTHER, Dayton, Ohio. Filed July 31, 1922. Serial No. 578,830. 6 Claims. (Cl. 188—218.)



5. In a brake mechanism, a manganese steel body consisting of a braking surface and a supporting wall, carbon steel inserts in said supporting wall located at spaced intervals, said inserts being adapted to have apertures drilled therethrough for retaining bolts, and a plurality of hardened steel radiating fins on the exterior of the braking surface spaced from one another to radiate heat therefrom.

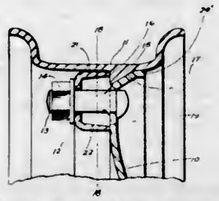
1,473,367. LENS-MOUNTING MACHINE. ROBERT M. WASON, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Apr. 18, 1922. Serial No. 555,047. 6 Claims. (Cl. 81—3.)

1. A lens mounting machine including a lens support, a frame expanding block and means for forcing a frame over the expanding block in the direction of the lens support said support having an abutment portion limiting



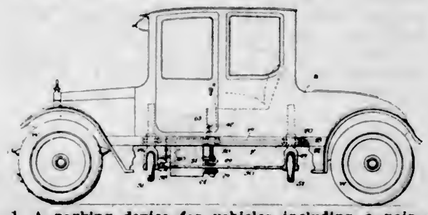
the movement of a frame beyond the lens supporting surface of the support.

1,473,368. DISK WHEEL. JOHN WILLIAM WHITE, Buffalo, N. Y. Filed Dec. 28, 1922. Serial No. 609,497. 5 Claims. (Cl. 301—19.)



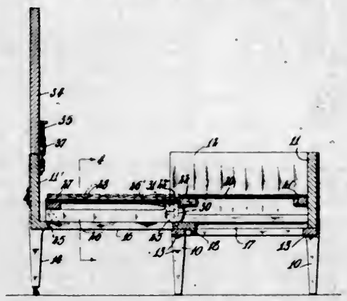
2. In a disk wheel, a rim, a disk having a continuous annular band adjacent said rim, and in a plane parallel to the center plane of the wheel, a bead on the underside of said rim, one face of which bead is perpendicular to the base of said rim and lies in the same plane as the band on said disk, the plane of said band and bead being so located with reference to the center plane of the wheel that the valve stem of a tire on said rim, which stem is in the center plane of the wheel, projects from said rim in front of and out of contact with said bead and band and a clamping ring for securing said rim to said disk, said ring comprising upper and lower legs, the inner leg bearing against said annular band and the upper leg bearing against the perpendicular face of said bead and notches through said upper and lower legs for the valve stem.

1,473,369. PARKING DEVICE FOR AUTOMOBILES. MIRIAM S. F. WILLIAMS and JOHN K. E. DIFFENDERFFER, Baltimore, Md.; said Diffenderffer assignor to said Williams. Filed Mar. 24, 1922. Serial No. 546,241. 14 Claims. (Cl. 180—1.)



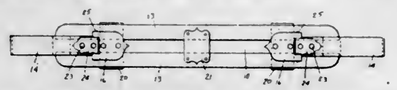
1. A parking device for vehicles including a pair of spaced jacks at each side of the vehicle having vertically movable elements provided with ground wheels at their lower ends, means at the upper end of each jack for moving said elements vertically, gearing connecting said means to cause the same to operate in unison, said gearing including a motion reversing device and being arranged for driving from a power shaft of the vehicle, a shaft connecting the ground wheels at one side of the vehicle, and gearing for driving said shaft independent of the first mentioned gearing, said last gearing including a motion reversing device and being arranged for connection to a power shaft of the vehicle.

1,473,370. COMBINATION BED AND TABLE. CARL HELLER, New York, N. Y. Filed Aug. 14, 1922. Serial No. 581,619. 4 Claims. (Cl. 5—3.)



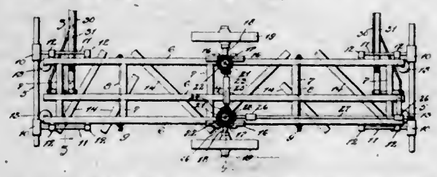
1. In a device of the class described, a pair of frames one of which is slidable on the other, a bed spring support mounted for up and down movement on said slidable frame, a bed spring section mounted on the other frame, a bed spring section mounted on said support, and co-operating stop members mounted respectively on said other frame and the said support and adapted to cause the said support to be moved automatically upward by the final extension movement of said slidable frame.

1,473,371. VEHICLE BUMPER. CHARLES C. HIMES, Indianapolis, Ind. Filed May 7, 1923. Serial No. 637,235. 4 Claims. (Cl. 293—55.)



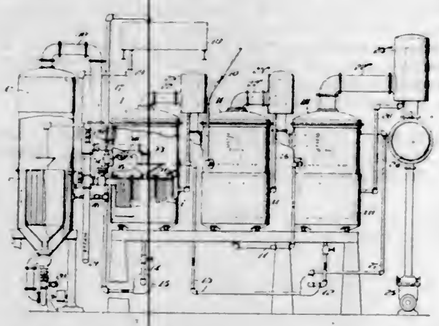
1. A bumper for vehicles having a pair of spaced bumper bars, means for rigidly securing said bumper bars upon a vehicle, extension members hingedly mounted adjacent the ends of said bumper bars and having inwardly curved outer ends, and yielding means rigidly secured to said bumper bars for normally maintaining said members in alignment therewith and permitting them to swing away therefrom under sufficient force to overcome the tension of said yielding means.

1,473,372. SUBGRADING MACHINE. CHRISTIAN J. HUG, Highland, Ill. Filed Apr. 13, 1922. Serial No. 552,386. 2 Claims. (Cl. 94—45.)



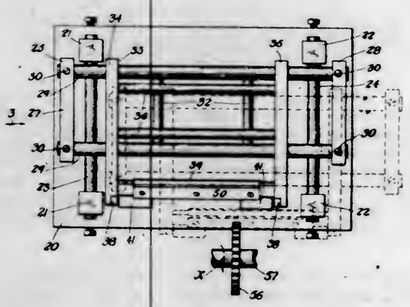
1. In a sub-grading machine the combination of a frame; grading blades carried by said frame; rollers supporting the frame when in operative position; means for engagement with curbs for guiding the machine and means incorporated to guide the device on the curbs.

1,473,373. EVAPORATOR. MARTIN J. KERMER, Evanston, Ill. Filed Jan. 16, 1919. Serial No. 271,542. 10 Claims. (Cl. 159—20.)



2. In an evaporator system, a multiple-effect primary evaporating system of more than two units, each said unit having a vapor space connected to the heating space of the next subsequent effect, and the ultimate effect having a vapor-delivery outlet; a concentrator; means for steam supply to the heating space of the first unit, means for steam supply to the heating space of the concentrator; liquor-flow connections between the liquor spaces of the evaporator units, a liquor flow connection from that unit which is last in liquor-flow sequence to the liquor space of the concentrator; and means for delivering the concentrator vapor from the vapor space of said concentrator into the vapor space of the ante-penultimate unit of the multiple-effect system.

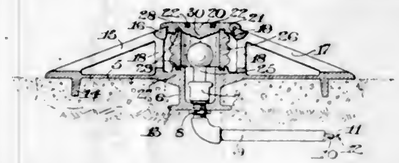
1,473,374. METHOD OF AND APPARATUS FOR MAKING SAWS OR SAW BLADES. ADOLF KÖNIG, Hoboken, N. J., assignor to Hans K. Lorentzen, New York, N. Y. Filed June 29, 1918, Serial No. 242,550. Renewed Apr. 6, 1923. 11 Claims. (Cl. 76—112.)



1. In an apparatus of the class described, a workpiece supporting member, comprising an elongated body part having a concaved face therein, means for supporting in parallel relation thereto a plurality of saw blade blanks on the concaved face of said body part, and means connected with one side edge of the body part for holding said blanks in firm position.

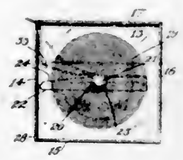
1,473,375. TRAFFIC INDICATOR. WILLIAM D. KYLE, Milwaukee, Wis. Filed Dec. 30, 1921. Serial No. 525,842. 4 Claims. (Cl. 240—1.)

1. In a traffic indicator, the combination of a base, a guard having apertured inclined walls and an opening in its top, a removable cap for said opening, a lamp receptacle mounted in the base, an electric lamp in said recep-



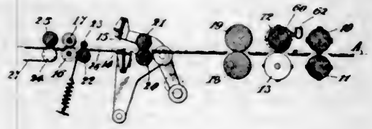
tacle, and a globe surrounding the bulb of said lamp and clamped between said cap and base.

1,473,376. DISPENSING APPARATUS. DAVID LANGENZEN, New York, N. Y. Filed May 25, 1921. Serial No. 472,373. 1 Claim. (Cl. 206—58.)



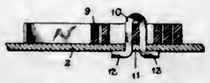
In a dispensing apparatus in combination a casing having an opening, a roll carrying a length of material to be dispensed within said casing, said material projecting through said casing, and means to retract said material through said casing opening.

1,473,377. MACHINE FOR CUTTING COMPOSITION SHINGLES. SAMUEL M. LANGSTON, Wenonah, N. J. Filed July 28, 1922. Serial No. 578,172. 23 Claims. (Cl. 164—68.)



1. A machine for cutting shingle strips, from sheet material, including sheet feeding means, means for forming a plurality of slots extending transversely of the sheet and arranged in two rows extending lengthwise of the sheet, each slot of one row having one corner only registering with one corner of a slot in the other row, and means for cutting the sheet longitudinally along lines intersecting all of said registering corners, and transversely along lines intersecting certain only of said registering corners.

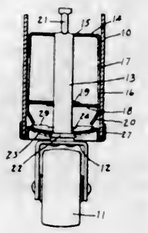
1,473,378. DOOR LATCH. RAYMOND GUY MOORE, Bridgeport, Conn., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 20, 1923. Serial No. 626,444. 4 Claims. (Cl. 292—169.)



4. In a door latch, the combination of a plate having an opening therethrough, a member movably mounted on said plate, a spring on said plate pressing against said

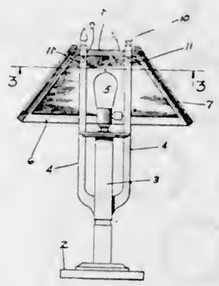
member and a bent clip extending over and above said spring and having its ends extend through said opening, said ends being provided with laterally extending portions bearing against the opposite side of said plate to secure said spring in position.

1,473,379. LEG-MOUNT CASTER SUPPORT. WILLIAM H. NOELTING, Evansville, Ind., assignor to Faultless Caster Company, Evansville, Ind., a Corporation. Filed Nov. 25, 1922. Serial No. 603,161. 3 Claims. (Cl. 16—39.)



3. In a caster leg mount for tubular legs, the combination with a polygonal base, including an arcuate annular portion having a central opening and sides extending upwardly from said base in tangential relation to said annular portion, said side and said annular portion at the point of tangency forming a U-shaped groove for engaging the opposite sides of said tubular leg, and that portion intermediate the points of tangency being formed for increasing the resiliency of the base.

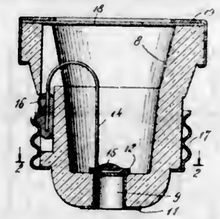
1,473,380. LAMP-SHADE HOLDER. JOHN PETERSON, Faribault, Minn. Filed Mar. 6, 1922. Serial No. 541,439. 1 Claim. (Cl. 240—81.)



A lamp comprising a standard, arms mounted on the lower portion of said standard and forming hand grips and projecting upwardly above the top of said standard upon opposite sides of the light bulb, a shade having a flat top provided with openings therein on each side of the center to receive the upper ends of said arms and said arms having pins inserted transversely therethrough below said flat top and supporting it and said shade.

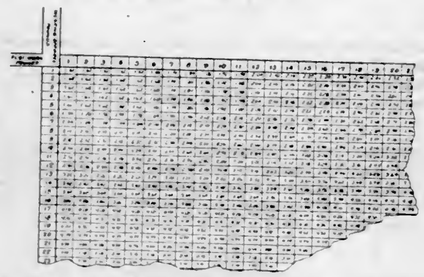
1,473,381. FUSE PLUG. HENRY V. RAU, Brooklyn, N. Y., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Filed Nov. 18, 1920. Serial No. 424,993. 4 Claims. (Cl. 200—130.)

1. In a device of the kind described, a generally cup shaped body having an aperture through its bottom, a metallic tube having a wall extending thereacross intermediate the ends thereof and provided with outstanding flanges at both ends, the tube fitting the aperture of the



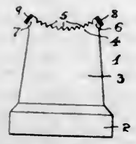
body bottom with the outstanding flanges thereof resting upon opposite sides of the bottom wall and gripping the same immovably between them, substantially as set forth.

1,473,382. LAUNDRY PRICE CHART. CHARLES O. REEPS, Chicago, Ill. Filed June 5, 1922. Serial No. 565,888. 6 Claims. (Cl. 283—1.)



1. A laundry price-chart of the character described, displaying price amounts arranged in horizontal rows and vertical columns, said rows and columns being designated with various amounts of different types of laundry articles respectively, each such price item representing the charge for the joint amounts of the two types of laundry corresponding to the row and column of which such item forms a part.

1,473,383. MEANS FOR HALVING EGGS AND SLICING FRUITS. MONRO RIKER, Chester, N. J. Filed Aug. 24, 1921. Serial No. 494,773. 4 Claims. (Cl. 146—2.)

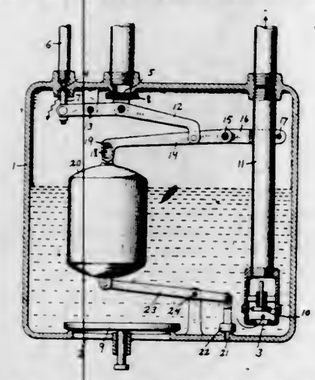


1. An egg or fruit severing or slicing device, comprising a base, and a transverse and centrally disposed cutting member projecting upwardly at a right angle to said base, said member being provided upon its upper edge with severing serrations or saw-teeth, the base of the device being further provided in its upper surface at either side of said transversely and upwardly extending member with dish-shaped receiving portions.

1,473,384. PNEUMATIC PUMP. HOMER S. ROGERS, Milwaukee, Wis., assignor to John R. Ball, Milwaukee, Wis. Filed Feb. 11, 1920. Serial No. 357,770. 2 Claims. (Cl. 103—248.)

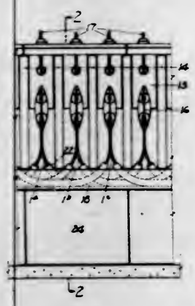
2. In a pneumatic pump, the combination with a pump chamber provided with a water inlet port, a water vent, a compressed air inlet port, an air exhaust port and a

water outlet port, of a water inlet valve, a water vent valve, a compressed air valve and an air exhaust valve, the air exhaust port being of sufficient size so that the air exhaust valve will be retained closed by the difference



between the pressure in the pump chamber and outside thereof, the water vent valve being connected with a float and the air exhaust valve being connected with the float by a lost-motion construction.

1,473,385. BUS STRUCTURE. ALLEN M. ROSSMAN, Chicago, Ill., assignor to Sargent & Lundy, Incorporated, Chicago, Ill., a Corporation of Illinois. Filed May 10, 1920. Serial No. 380,200. 22 Claims. (Cl. 175—298.)

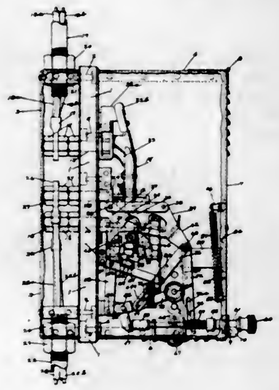


19. In a bus structure, a plurality of stationary contacts to be connected, a concrete beam extending along said contacts, a series of conduits of insulating material embedded in said beam with ends projecting out of said beam adjacent said contacts, and lengths of flexible cable extending through and out of said conduit, and having their adjacent ends connected to the same one of said stationary contacts, so that a continuous electrical connection to and past said contact is provided.

1,473,386. SWITCHING APPARATUS. WILLIAM M. SCOTT, Tredyffrin Township, Chester County, Pa. Filed Nov. 26, 1919, Serial No. 340,724. Renewed Oct. 12, 1922. Serial No. 594,199. 40 Claims. (Cl. 200—107.)

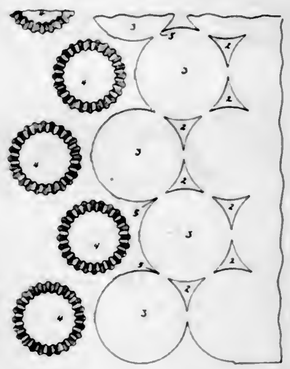
1. The combination with the movable member of a switch, of oscillatory link structure connected therewith, and a rotatable slotted member into and within which said link structure extends and is pivoted, said member engaging at the end of its slot with said link structure for actuating the same.

10. The combination with a plurality of independently operable switches each comprising a movable contact member, a link and connections therewith and said contact member, of a shaft upon which said links are pivoted, and a tubular member enclosing said shaft and rotatable therewith and having slots into which said



links extend, said tubular member at the ends of said slots adapted to engage said links for actuating the same.

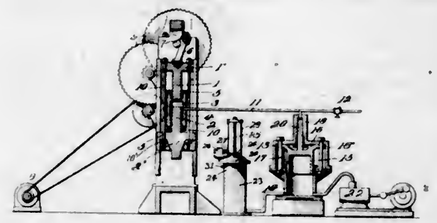
1,473,387. APPARATUS FOR AND METHOD OF MANUFACTURING PAPER DISHES. PAUL R. SIMMONS, Huntington, Ind., assignor to Peerless Paper Products Company, Indianapolis, Ind., a Corporation. Filed Apr. 27, 1922. Serial No. 556,949. 8 Claims. (Cl. 93—60.)



1. The method for the gang manufacture of dishes of circular form from a sheet of paper stock including making a series of voids so as to leave a group of circular blanks tangentially connected, whereby said blanks will be united for handling and held in proper position by their tangential connections for subsequent treatment, severing said tangential connections after the blanks are positioned for subsequent treatment, and forming said blanks into dishes in such positions.

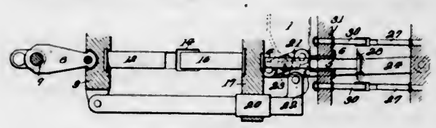
1,473,388. PRESS. FRANK H. SMITH and ALOIS K. NOWAK, Cleveland, Ohio. Filed Feb. 24, 1920, Serial No. 360,614. Renewed Sept. 30, 1921. Serial No. 504,496. 21 Claims. (Cl. 138—17.)

1. A mechanical press having a work engaging ram and a mechanically actuated piston separated by an enclosed fluid medium, means whereby the piston may be actuated to transmit pressure intermittently to the



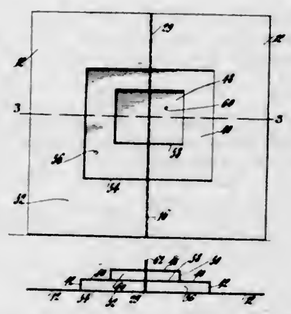
ram, and separate means operable independently of the piston for transmitting a continuous pressure through the fluid medium to the ram.

1,473,389. BRIQUETTING PRESS. FRANK H. SMITH and ALOIS K. NOWAK, Canton, Ohio. Filed June 21, 1920, Serial No. 391,840. Renewed May 24, 1923. 25 Claims. (Cl. 25—56.)



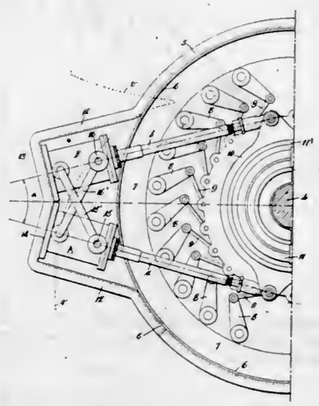
1. In a briquetting press, a reciprocating plunger, a mould reciprocating in alignment therewith, actuating means for said plunger and mould, and an hydraulic cushion interposed between the actuating means and the mould.

1,473,390. DISPLAY DEVICE. JULIEN STRANDERS, London, England, assignor to Harry B. Kruger, New York, N. Y. Filed Feb. 15, 1922. Serial No. 536,638. 9 Claims. (Cl. 40—149.)



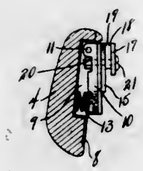
3. A collapsible display device comprising a base, a main display panel hingedly connected to said base and movable to an angular display position with respect thereto, an auxiliary display panel also hingedly connected to said base, and a flexible connection between the main and auxiliary display panels whereby the latter is automatically caused to assume a position in spaced parallel relation to the main panel when said main panel is moved to display position with relation to said base.

1,473,391. TURBINE-GATE-OPERATING MECHANISM. HARVEY BIRCHARD TAYLOR, Philadelphia, Pa. Filed July 29, 1922. Serial No. 578,393. 9 Claims. (Cl. 253—122.)



1. A hydraulic turbine having a series of gates and a pair of operating cylinders for actuating said gates, said cylinders having non-parallel axes.

1,473,392. TRUSS. JAMES W. BUCKLEY, Weatherford, Tex. Filed June 10, 1922. Serial No. 567,308. 4 Claims. (Cl. 128—125.)

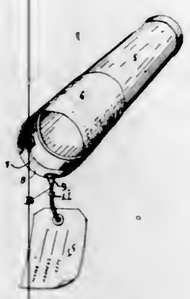


1. A truss pad comprising a body of yielding material, a face-plate attached to said pad, a pad carrying block pivotally connected to said plate and provided with a transverse slot therein, an adjusting block rotatable on said pad-carrying block and provided with a transverse slot registering with the slot in said pad-carrying block, a clamping member for mounting said pad on the wearer, and a bolt projected through said clamping member and through said slots and a nut therefor for binding said pad-carrying block and said adjusting block and said clamp together.

1,473,393. MAILING TUBE. JOHN A. ALBERTONI, Akron, Ohio. Filed Aug. 6, 1920. Serial No. 401,794. 1 Claim. (Cl. 229—93.)

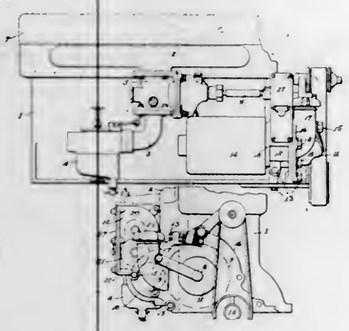
In a device of the class described in combination, a tube, a flexible extension secured to the end thereof, a string slidingly fixed around the free end of said extension so that the end of the tube may be closed by

drawing the said extension together, a shipping tag secured to the free end of said string and a clasp slid-



ably mounted on said string, said clasp adapted to hold said extension in a closed position, substantially as herein set forth.

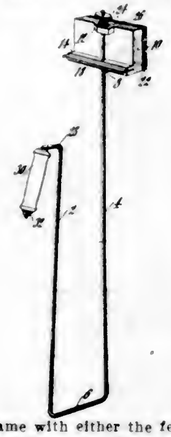
1,473,394. INTERNAL-COMBUSTION ENGINE. WALTER J. BAUMGARTNER, Brooklyn, N. Y., assignor to Duplex Engine Governor Company Inc., Brooklyn, N. Y., a Corporation of New York. Filed Jan. 20, 1920. Serial No. 352,772. 4 Claims. (Cl. 123—108.)



2. A support adapted to be secured to an engine, the support having a bracket open at one side to communicate with the inside of the engine, the bracket being shaped to support a generator at the back and to be covered by a plate in front, an extension on top of said bracket, gears in said extension to rotate a shaft extending therefrom, said extension having an opening, and a removable plate to close said opening.

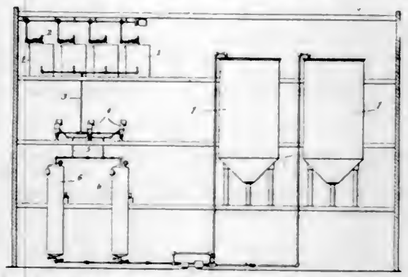
1,473,395. WINDOW CLEANER. AUGUST M. BECKER, New York, N. Y. Filed Mar. 21, 1922. Serial No. 545,613. 4 Claims. (Cl. 15—220.)

1. A window cleaner comprising a U-shaped wire frame, one of the leg portions of which is constructed to provide a shoulder adjacent to its upper end, a handle member extending downwardly from the other leg portion of the frame and substantially parallel thereto, a block rotatably mounted on the first-mentioned leg portion and supported by said shoulder, a layer of felt at one side of the block, a rubber strip seated in the side of the block opposite from the layer of felt, and means for securing



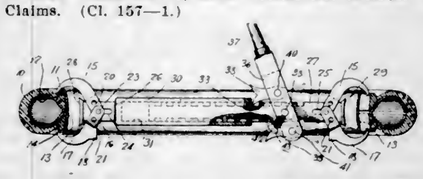
the block to the frame with either the felt or the rubber strip disposed on the side of the block toward the handle member in position for operation on a window.

1,473,396. PROCESS FOR MANUFACTURING SOAP. JOHN W. BODMAN, Western Springs, Ill., assignor to William Garrigue & Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 20, 1921. Serial No. 438,541. 5 Claims. (Cl. 87—16.)



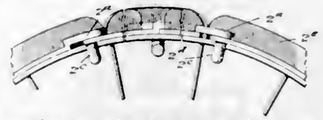
1. A process for manufacturing soap comprising, treating soap stock with alkali insufficient in quantity to neutralize all of the fatty acid, and forming a substantially water-insoluble emulsion, including an incomplete soap and unneutralized fat, splitting the unneutralized fat, separating out the glycerine liquors, adding sufficient alkali to make up the previous deficiency and completing the manufacture of the soap.

1,473,397. TIRE REMOVER. ARTHUR BOOCK, Tripp, S. Dak. Filed Dec. 5, 1921. Serial No. 520,063. 2 Claims. (Cl. 157—1.)



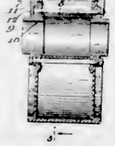
1. A tire tool comprising a casing having one end thereof closed and terminating in a rim engaging head, a slidable bar adjustably supported in the open end of said casing and having a rim engaging head at its outer end, clamping hooks having their inner ends bifurcated and interfitting, fastening means extending through said interfitting bifurcated portions for adjustably supporting the same on said casing and said bar adjacent the rim engaging heads thereof, the free ends of said hooks being curved inwardly and adapted to engage diametrically opposed sides of a rim.

1,473,398. DETACHABLE TRACTION LUG FOR TRACTOR WHEELS. CHARLES S. BURTON, Oak Park, Ill. Filed May 31, 1919, Serial No. 300,969. Renewed Apr. 7, 1923. 6 Claims. (Cl. 301—40.)



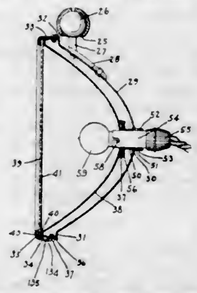
1. In combination with a traction wheel rim, detachable traction means consisting of traction lugs, pivotally connected together in series and disposed zig-zag on the traction face of the rim, alternate junctions approximating the opposite lateral edges of the rim; hook devices extending from the junctions for engaging said edges, and coupling means for connecting the first and last lugs of the series, consisting each of a two-member lug whose two members lap upon and engage each other, and means for forcibly adjusting the extent of their lap, for extending and contracting said two-member lug.

1,473,399. WHEEL. ROY E. CHOATE, Cedar Rapids, Iowa. Filed May 12, 1922. Serial No. 560,465. 2 Claims. (Cl. 301—63.)



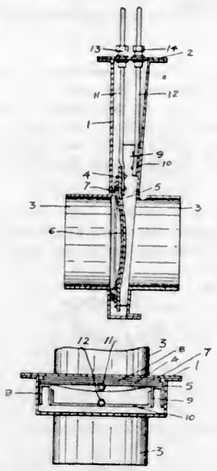
2. A wheel, composed of a cylindrical tread-rim, flanged, internal disks riveted thereto and bored centrally, centrally disposed reinforcing rings correspondingly bored, an interposed abutment member, flanged hub members projecting through the reinforced disks and into the abutment member, and bolts passing through them and the disks and reinforcing rings, to bind them all together.

1,473,400. HEADLIGHT CONSTRUCTION. HENRY F. DUNN, Indianapolis, Ind., assignor to Dunn Accessories Company, Indianapolis, Ind., a Corporation. Filed Oct. 3, 1921. Serial No. 504,860. 6 Claims. (Cl. 240—41.)



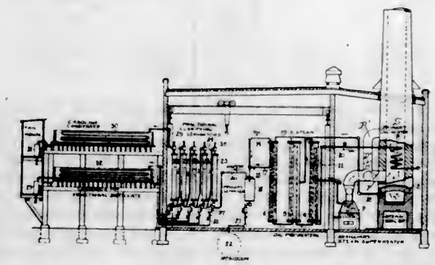
2. A headlight comprising a shell housing having an aperture and an annular rim with a groove therein, a sleeve in said aperture having a drain groove therein and provided with an outlet discharging without the shell, a lamp support seatable in said sleeve, and closure means for said shell having a discharge aperture adjacent the rim groove.

1,473,401. IRRIGATION VALVE. JOHN W. ELLIS, Portland, Oreg. Filed Nov. 17, 1921. Serial No. 515,870. 2 Claims. (Cl. 251—68.)



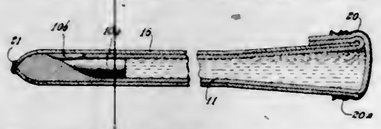
1. In a valve made of sheet metal, a tapered watertight chamber having pipe connections built into the rectangular faces of the valve, a rectangular gate having a circular concaved section at the center assembled within the chamber in such a manner as to be movable, movable wedge members having a taper common to that of the chamber and placed in such manner as to exert a pressure upon the gate when in either the closed or open position, said gate and wedge members being operated by rods connected thereto and passing through stuffing boxes at the top of the chamber, and the valve built in a concrete case to increase the strength and overcome the pressure of the water within the chamber.

1,473,402. PROCESS OF REFINING OIL. CHAUNCEY BLAIR FORWARD, Urbana, Ohio. Filed Jan. 9, 1919. Serial No. 270,408. 4 Claims. (Cl. 196—27.)



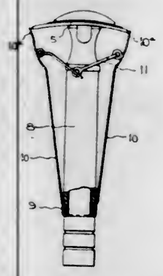
1. A process of refining oil, consisting in passing a thin body of oil for a short interval through the waste heat discharged from a steam boiler furnace, the temperature of the waste heat and duration of application being limited to prevent coking or burning of any part of the oil, and secondly, in applying the steam from the same boiler to the heated oil until a higher degree of temperature of the oil is obtained, and finally separating the lighter and heavier portions of the heated oil.

1,473,403. METHOD AND APPARATUS FOR MAKING CATHETERS. WILLIAM H. FOX, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Dec. 9, 1922. Serial No. 605,812. 12 Claims. (Cl. 18—56.)



1. The method of making catheters of plastic material which comprises forming the stock into a structure approximating the form of the finished catheter, with an aperture through the wall of the structure at the position of the eye, and molding said structure, including the walls of said aperture, into final form.

1,473,404. HAIR-CUTTING, SHAVING, OR COMBING DEVICE. CHARLES F. GAUNT, Birmingham, England. Filed Sept. 20, 1922. Serial No. 589,492. 6 Claims. (Cl. 30—12.)



1. A device of the type described consisting of a blade; a holder for the blade including a toothed guard and a toothed member mounted upon the holder and having its teeth movable between the teeth of the guard.

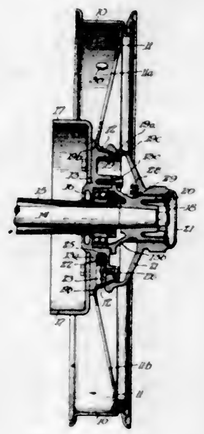
1,473,405. INTERCHANGEABLE ROAD-TREATING MACHINE. WILLIAM S. GOODELL, Chicago, Ill. Filed Mar. 1, 1922. Serial No. 540,091. 8 Claims. (Cl. 37—146.)



1. In a machine of the character described, the combination with a suitable frame having front and rear rotatable supporting means; of a weighted roller at the rear end of the machine, said roller being adjustably mounted on said frame and means for holding said roller in either a position below said rear supporting means of the machine to thereby sustain a portion of the machine's weight and act as a roller, or in various positions off of the road bed whereby its weight is applied to the effective holding down of the machine.

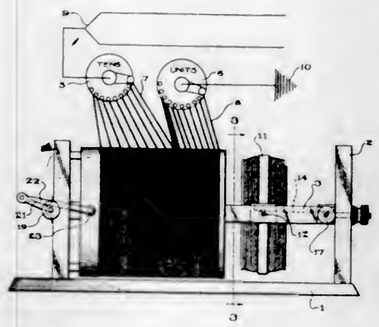
1,473,406. VEHICLE WHEEL. RAY W. HARROUN, Detroit, Mich. Filed Oct. 28, 1920. Serial No. 420,101. 14 Claims. (Cl. 301—64.)

2. In a wheel of the class described, a hub member having a circumferential seat, a rim, an annulus secured thereto and adapted to engage said seat around its inner periphery, a cap screw threadedly engageable with said hub and adapted to frictionally clamp said parts in position, and auxiliary means to prevent relative movement of said annulus with respect to said hub in one



direction while permitting such movement in a reverse direction, said means comprising a pawl carried by said hub and coacting with serrations formed on said annulus.

1,473,407. LOOSE COUPLER OR RECEIVING COIL. LUMAN W. HATCH, Stamford, Conn. Filed Oct. 3, 1922. Serial No. 592,159. 2 Claims. (Cl. 171—119.)

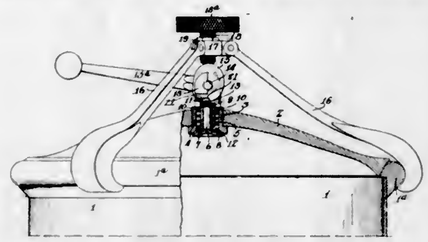


1. A loose coupler comprising a base slab, end pieces upstanding from said base slab, longitudinal bars interconnecting said end pieces, a primary coil slidably mounted upon said bars adjacent to one of said end pieces, a secondary coil arranged between said bars adjacent to the other end piece, means for sliding said primary coil relative to said secondary coil to vary the inductive relation of said coil, pivotal connections between said secondary coil and said side bars, and means for turning said secondary coil in order that the closest possible inductance variation may be obtained.

1,473,408. CLOSURE. HOLDEN C. RICHARDSON and HENRY F. VACHÉ, Philadelphia, Pa. Filed Mar. 9, 1922. Serial No. 542,229. 12 Claims. (Cl. 220—55.)

1. The combination, in a pressure containing vessel, of a cover therefor, a cam journaled on said cover, means cooperating with said cam for holding the cover in

place, a valve carried by the cover; said valve being arranged to be held to its seat by pressure within the vessel, means for normally holding said valve open, and



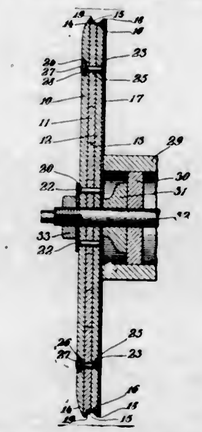
a stem carried by said valve for cooperative engagement with the cam whereby said valve may be opened by moving the cam with respect to said stem.

1,473,409. SPOKE-TIGHTENING SHIM DRIFT. JESSE D. TUCKER, Sacramento, Calif., assignor to Tucker Brothers Manufacturing Company, Sacramento, Calif., a Corporation. Filed July 19, 1922. Serial No. 576,153. 4 Claims. (Cl. 81—3.)



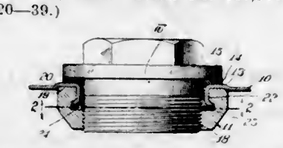
1. A drift for driving spoke tightening shims comprising a shank having a relatively thin flattened end whose outer edge extends transversely of the shank, said edge being concavely curved on a radius substantially the same as that of a shim to be engaged thereby and having substantially the same thickness.

1,473,410. CONSTRUCTION FOR BEAMS AND THE LIKE. WALTER I. TUTTLE, Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass., a Corporation of Rhode Island. Filed Apr. 26, 1921. Serial No. 464,759. 7 Claims. (Cl. 242—124.)



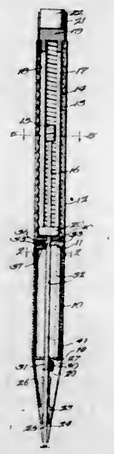
4. In construction for beams and the like, in combination, a metal head member having a diameter substantially that of the head, a metal head member of relatively small diameter lying parallel thereto, a built-up wooden head member interposed between said metal members and comprising a plurality of sections each of which has a plurality of parts secured edge to edge, means securing said metal members one to another and clamping said wooden member therebetween, and means securing said wooden member to said first metal member at points outwardly spaced from said second metal member.

1,473,411. BUNG STRUCTURE FOR METAL BARRELS AND THE LIKE. FREDERICK G. WACKER, Chicago, Ill. Filed Feb. 25, 1921. Serial No. 447,844. 2 Claims. (Cl. 220—39.)



1. The combination of a metallic barrel having in its sheet metal wall an orifice, a ring within the barrel surrounding the orifice having therethrough a passage, opened toward the axis of the ring, and being of two diameters, the lower portion of smaller diameter being screw-threaded internally and the upper portion of larger diameter constituting a chamber, the lip of the orifice in said wall being turned into said chamber, means securing the ring against rotation in the barrel wall, and a bung having a sealing head to co-act with the barrel wall bordering said orifice and having a threaded stem to engage the threaded portion of the ring.

1,473,412. MAGAZINE PENCIL. JOHN C. WAHL, Chicago, Ill., assignor to The Wahl Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 2, 1919. Serial No. 286,963. 7 Claims. (Cl. 120—14.)

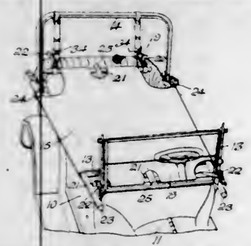


1. In a mechanical pencil, the combination of a pencil casing having an aperture adapted to hold a lead and a spring-driven magazine rotatably mounted in said casing and having its axis of rotation offset from said central aperture.

1,473,413. AUTOMOBILE BED. JAMES B. YOUNG, Cumberland, Ind. Filed Aug. 11, 1922. Serial No. 581,099. 4 Claims. (Cl. 5—118.)

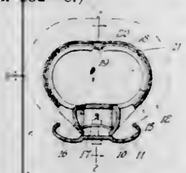
1. In combination with a vehicle having a front wind shield frame, and a top frame, of a collapsible bed adapted to be mounted therein comprising a body portion,

means for supporting each end thereof upon said wind shield frame and top frame, and means held in spaced



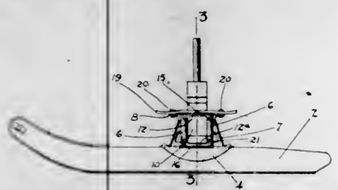
relation by said wind shield frame and top frame for supporting the sides of said bed, stretching it laterally and maintaining said sides in spaced relation.

1,473,414. RESILIENT TIRE. JOHN M. ABRAMS, Brooklyn, N. Y. Filed Apr. 2, 1923. Serial No. 629,344. 8 Claims. (Cl. 152—8.)



1. In a vehicle tire: the combination with a rim and a shoe or casing carried by same, a metal member extending thruout the interior of the casing and having risers and drops extending respectively outwardly and inwardly as well as transversely of the shoe, and means to retain the metal member and shoe to the rim; of an annular metal member surrounding the outer portions of the risers between same and the shoe.

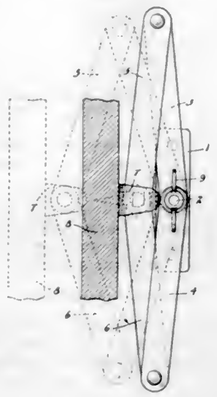
1,473,415. SLED KNEE. JOHN H. ANDERSON, St. Paul, Minn. Filed Dec. 24, 1920. Serial No. 432,957. 5 Claims. (Cl. 280—27.)



1. The combination, with a sled runner, of a knee having a base seated on the top of the runner and provided with depending flanges upon each side of the runner, standards projecting upwardly from said base, a beam fitting between said standards and seated on said base, plates fitting the upper and under surfaces of said beam and having recesses therein to receive said standards, bolts passing vertically through said plates and through said beam and securing them together, the engagement of said standards with the walls of said recesses preventing endwise movement of said beam, and means bridging the space between said standards above said beam for holding said beam between said standards.

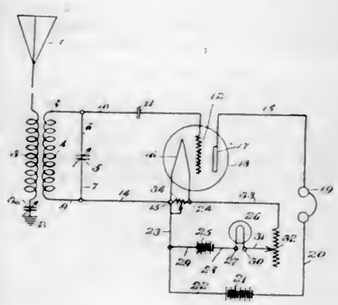
1,473,416. ADJUSTABLE STORM-WINDOW HOLDER. GEORGE A. AWALT, Minneapolis, Minn. Filed Nov. 22, 1920. Serial No. 425,658. 3 Claims. (Cl. 292—263.)

1. A window holder having in combination a bracket adapted to be secured to the window sash, a pair of links pivoted to said bracket and diverging therefrom, a second pair of links pivoted to the ends of said first mentioned links, having their other ends converging, a bracket secured to the window frame, and a single bolt forming



both the connecting means of said last mentioned links and bracket and a locking means for portion locking said sash in various open positions and also in closed position.

1,473,417. RADIO RECEIVING APPARATUS. FRANK G. BEETEM, Philadelphia, Pa. Filed June 16, 1920. Serial No. 389,442. 3 Claims. (Cl. 250—27.)

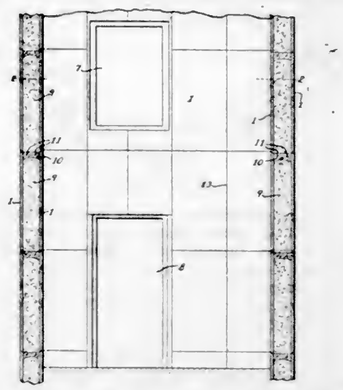


1. In combination, the filament of an audion or vacuum tube, a source of current therefor, a resistor of high positive temperature coefficient connected between the source and the filament and adapted to maintain a substantially constant current flow, and a resistor connected in parallel with the filament to divert a portion of said current whereby the current in the filament is maintained constant at a different value from that of the current from the source.

1,473,418. SYSTEM OF BUILDING CONSTRUCTION. CHARLES BOREL, Geneva, Switzerland, assignor to John E. A. Trub, New York, N. Y. Filed Apr. 20, 1922. Serial No. 555,655. 7 Claims. (Cl. 72—30.)

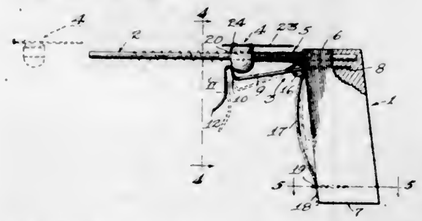
1. The building construction method described herein consisting in assembling a plurality of parallel wall-plates or panels in end-on-end relation; temporarily securing opposed plates together; setting in place a plurality of pairs of stanchion panels in spaced apart relation set

on end between the wall-plates; filling the chamber between the wall-plates and stanchion panels with insulat-



ing material; and filling in between the stanchion panels and on top of the insulating material with reinforced cement.

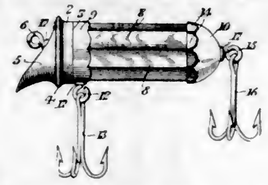
1,473,419. TOY PISTOL. GEORGE R. CUDLIPP, Los Angeles, Calif. Filed Sept. 5, 1922. Serial No. 586,345. 2 Claims. (Cl. 124—12.)



1. A toy pistol comprising a block of wood forming a handle; a wire driven into the handle and forming a barrel; a wooden ball having a central opening to receive the barrel and forming a bullet; and a bullet retainer and trigger formed of a single piece of spring wire consisting of an anchor portion seated in the handle below the barrel, an extension portion in line with the anchor portion, a first bullet retainer portion extending upwardly from the forward end of the extension portion, a first trigger portion extending forwardly and downwardly from the upper end of the first retainer portion, a return bend portion at the forward end of the first trigger portion, a second trigger portion extending from the other end of the return bend portion and parallel with the first trigger portion, a second retainer portion extending from the second trigger portion parallel with the first retainer, a second extension portion extending from the second retainer portion parallel with the first extension portion, a coil spring portion extending from the second extension portion around the first extension portion, and means connecting the coil spring portion to the handle, the coil spring fitting against the handle and the retainer portions normally pressing upwardly against the barrel.

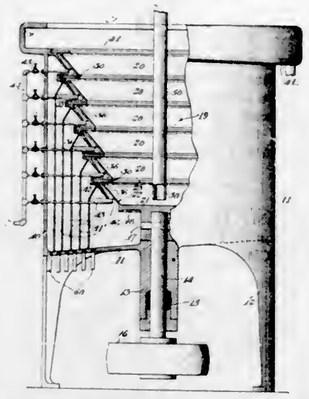
1,473,420. ARTIFICIAL BAIT. GEORGE H. DOERING, Brooklyn, N. Y. Filed Feb. 28, 1921. Serial No. 448,496. 8 Claims. (Cl. 43—46.)

1. A fish bait comprising a body portion, a plurality of strips of hard and insoluble fish-attracting material extending longitudinally of the body portion, a divided band embracing said strips adjacent one end, a fastening device extending through the overlapped ends of the band into the body portion, a cap fitting over one end of the



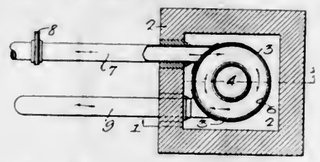
body and embracing the other ends of the strips, and a fastening device extending through the cap into the adjacent end of the body.

1,473,421. CENTRIFUGAL SEPARATOR. CHARLES W. ECCLESTON, Los Angeles, Calif., assignor to Centrifugal National Concentrator Company, Los Angeles, Calif., a Corporation of California. Filed Apr. 5, 1919. Serial No. 287,886. 24 Claims. (Cl. 233—15.)



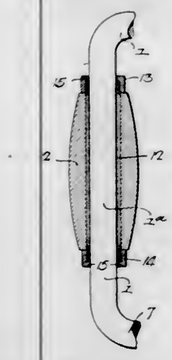
11. A centrifugal separator comprising a rotatable member having a discharge outlet in the walls thereof, means on the exterior of said rotating member arranged to form a bank of the material discharged through said discharge outlet and means exterior of said bowl for continuously directing a jet of liquid against the exposed portion of said bank.

1,473,422. AIR HEATER FOR FUEL BURNERS. HENRY S. FARQUHAR, Wayne, Pa., assignor to The Baldwin Locomotive Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 19, 1923. Serial No. 633,177. 4 Claims. (Cl. 110—56.)



1. The combination in a heater for preheating air for a furnace, of a stack communicating with the furnace and through which the products of combustion pass from the furnace; a preheater located in the stack and around which the products of combustion pass; an air inlet pipe communicating with one end of the preheater; and an outlet pipe communicating with the other end thereof, said pipes being arranged tangentially to the preheater so that air, under pressure, admitted to the preheater passes through it in a helical path.

1,473,423. HAND BRACE. THOMAS J. FEGLEY and GEORGE O. LEOPOLD, Philadelphia, Pa., assignors to North Bro's M'f'g Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 6, 1923. Serial No. 623,164. 2 Claims. (Cl. 195—66.)



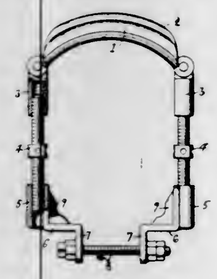
1. The combination in a brace, of a rod forming the crank; a sleeve sweated upon the rod, said sleeve having a screw thread at each end; a hand hold mounted to turn freely on the sleeve; and nuts at each end of the sleeve, said nuts preventing longitudinal movement of the hand hold.

1,473,424. LAMP FIXTURE. HUBERT M. GREIST, New Haven, Conn. Filed Jan. 15, 1923. Serial No. 612,638. 4 Claims. (Cl. 240—108.)



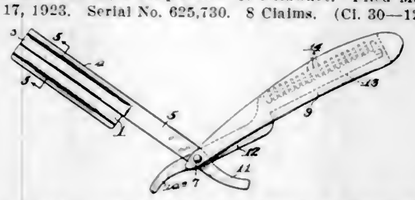
4. A lamp fixture comprising two X-shaped members arranged at right angles to each other, the ends of the members expanded and their adjacent edges inwardly-curved, the said members longitudinally-bowed, whereby the edges of the ends are brought together, and means for connecting the said edges.

1,473,425. NONSKID DEVICE FOR TIRES. MICHAEL HALLANAN, New York, N. Y. Filed Nov. 27, 1922. Serial No. 603,635. 3 Claims. (Cl. 301—44.)



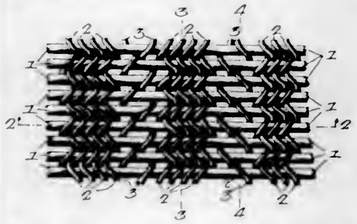
1. A non-skid traction device for tires comprising a rigid, ribbed plate, a pair of sleeves pivotally secured to the sides of said plate, a pair of clamp plates, turnbuckles engaging the sleeves and clamp plates and means for forcing the clamp plates together.

1,473,426. RAZOR. WILLIAM H. W. HAMILTON, Buffalo, N. Y., assignor to Hamilton Triplex Razor Co. Inc., Buffalo, N. Y., a Corporation of Delaware. Filed Mar. 17, 1923. Serial No. 625,730. 8 Claims. (Cl. 30—12.)



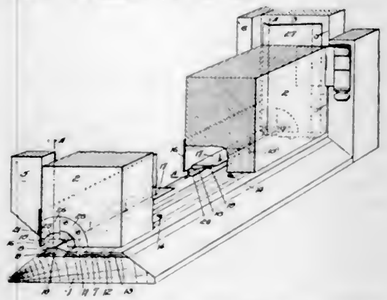
1. A razor, comprising a holder adapted to receive and support a blade longitudinally and in the transversely central portion thereof, said holder having a hollow shank, and a guard for said blade carried by a shank pivotally supported within said hollow shank and movable transversely therein, to position the guard upon either side of the blade at will.

1,473,427. ELASTIC FABRIC. WILLIAM HANDLEY, Camden, N. J. Filed June 20, 1923. Serial No. 646,568. 1 Claim. (Cl. 139—387.)



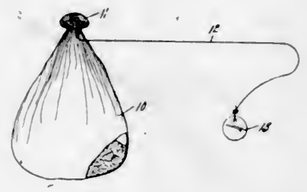
A fabric consisting of two sets of relatively non-elastic weft threads; two sets of independent excessively twisted warp threads interwoven respectively with the weft threads of said two sets; and binder warps connecting said weft threads of the two sets to form a fabric having tubular stripes.

1,473,428. WEATHER STRIP. SPRAGUE F. HASKELL, St. Louis, Mo., assignor of one-half to Charles D. Lyon, St. Louis, Mo. Filed Mar. 27, 1918. Serial No. 224,991. 2 Claims. (Cl. 20—69.)



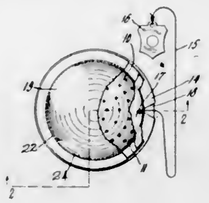
1. A weather strip comprising a section terminating along one edge in a resilient underfold section having a looped edge which terminates in a forward downwardly projecting and suitably curved resilient contact lip section capable of yielding upwardly when the lower face of the curved portion of the lip is brought into frictional contact with an adjacent member and an upwardly projecting ear fixed to each end of the resilient contact lip section for movement therewith.

1,473,429. TEA CARTRIDGE. LOUIS HIRSCHHORN, New York, N. Y., assignor, by mesne assignments, to Millie Patent Holding Co. Inc., New York, N. Y., a Corporation of New York. Filed June 11, 1920, Serial No. 388,157. Renewed Apr. 3, 1923. 6 Claims. (Cl. 53—3.)



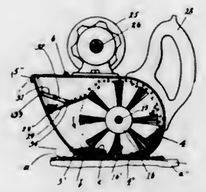
1. A device for extracting essence from tea-leaves or coffee, comprising a bag of textile fabric having its mouth drawn into folds, and a cap of quick setting plastic material closing said bag mouth, the folded mouth portion of said bag being embedded in the material of said cap.

1,473,430. TEA CARTRIDGE. BENJAMIN HIRSCHHORN and LOUIS HIRSCHHORN, New York, N. Y., assignors, by mesne assignments, to Millie Patent Holding Co. Inc., New York, N. Y., a Corporation of New York. Filed Aug. 5, 1920, Serial No. 401,292. Renewed Apr 3, 1923. 3 Claims. (Cl. 53—3.)



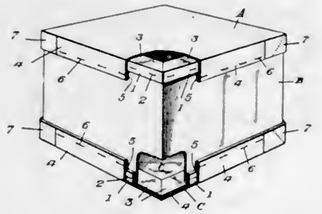
1. A cartridge for extracting essence from coffee or tea, comprising a perforated container made of two sections united by means made integral therewith, a string attached to said container, and a wrapper enclosing said container held thereon by certain elements constituting the cartridge.

1,473,431. DEVICE FOR CLEANING FUR ARTICLES. OTTO HOLSTEIN, St. Paul, Minn. Filed June 14, 1922. Serial No. 568,118. 16 Claims. (Cl. 15—40.)



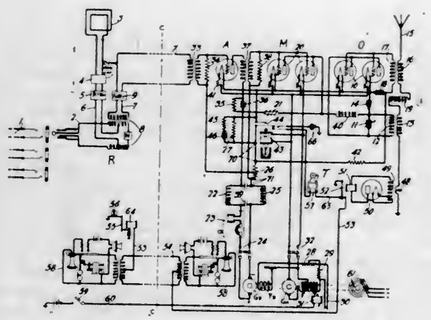
1. A device for cleaning fur articles comprising a casing adapted to be readily moved over the hairy covering of a fur article, said casing including a front and rear wall extending downwardly and inwardly to define an opening between their respective lower edges, and a power driven brushing mechanism including a cylindrical bristle brush rotatably mounted in said casing in a manner to extend through said opening and be spaced from the lower edge of said front wall and to peripherally engage when said mechanism is actuated the hairy covering of the fur article and brush over the lower edge of said rear wall for the purpose set forth.

1,473,432. BOX. JOSEPH G. HUYE, New Orleans, La. Filed Dec. 4, 1918. Serial No. 265,228. 8 Claims. (Cl. 229—45.)



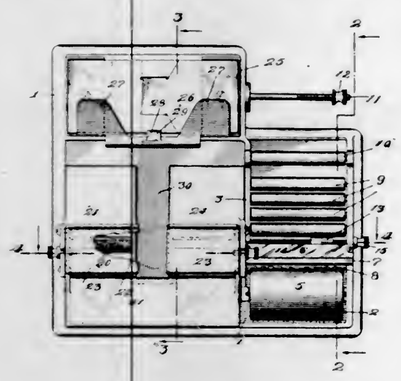
5. A box comprising a body section and an end section, said sections being provided with interengaging means, the end section receiving the end portion of the body section and having a lip, in combination with spreading flanges formed integrally with the engaging means of the body section and, in assembled position, lying on the inner face of the end section, the edges of the ends of said spreading flanges engaging each other to hold said body section in locking engagement with the end section.

1,473,433. CARRIER-WAVE TRANSMISSION SYSTEM. ARTHUR W. KISHPAUGH, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 3, 1921. Serial No. 466,477. 17 Claims. (Cl. 250—64.)



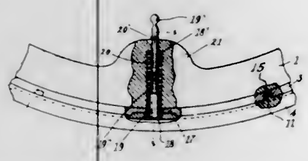
1. In combination, means for transmitting high frequency waves, generators for supplying energy thereto, a control station remote from said means, said control station having means for controlling said generators to render said transmitting means active.

1,473,434. MOISTENING DEVICE. THEODORE H. KRUEGER, New York, N. Y. Filed May 7, 1920. Serial No. 379,465. 14 Claims. (Cl. 91—14.5.)



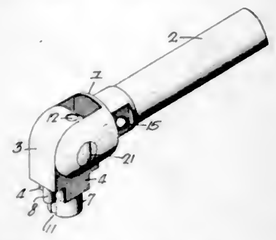
1. In a moistening device, the combination of means for supporting a plurality of different types of articles to be moistened, a reservoir for containing a moistening liquid, and independent means mounted in said reservoir for transmitting moisture therefrom to articles of each of said types to be moistened, one of said moistening means comprising a plurality of moistening members spaced from each other so as to leave an intermediate area of the article with which it is intended to cooperate, unmoistened.

1,473,435. AUTOMOBILE WHEEL. WILLIAM H. KUTINA, Ewen, Mich. Filed May 1, 1922. Serial No. 557,591. 1 Claim. (Cl. 301—10.)



The combination with a wheel having a circumferential face formed by a felly band surrounding the body thereof, said wheel having circumferentially spaced peripheral sockets in half of its circumferential face, said sockets extending through said felly band and into the body of the wheel, and circumferentially spaced transversely disposed grooves wholly in the felly band and located opposite said sockets in the other half of its circumferential face, said grooves being open at one end, the openings thereof facing laterally; of a demountable rim adapted to be placed in close fitting relation around said wheel, releasable locking means for locking said rim to said wheel when said rim is in close fitting relation therewith, said locking means being located midway between said grooves, projections carried by said rim formed and positioned to adapt them to be entered respectively into the openings of said grooves and occupy the latter, and lugs carried by the rim shaped and located to be initially entered respectively partially into said sockets to bring said projections into register with said groove openings, and be then completely entered into said sockets, concurrently with the entry of said projections into said grooves, to extend through and beyond said felly band into the body of the wheel.

1,473,436. HANDLE FOR SOCKET WRENCHES. GEORGE O. LEOPOLD, Philadelphia, Pa., assignor to North Bro's M'f'g Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 7, 1922. Serial No. 573,420. 4 Claims. (Cl. 81—177.)



1. The combination in a handle for wrenches, of a head having an extension forming a handhold; an engaging member pivoted to the head; and means for locking the engaging member to the head, said engaging member having a rectangular portion to fit an opening in a wrench so that it can be turned by the handle and also having a cylindrical portion of a diameter to turn freely in the opening in the wrench, when the handle is raised.

1,473,437. DETACHABLE GUIDE OR TIP FOR FISHING RODS. WALTER R. LINDSTROM, Minneapolis, Minn., assignor of one-third to Eugene C. McKenna, Minneapolis, Minn. Filed Sept. 2, 1922. Serial No. 585,996. 3 Claims. (Cl. 43—24.)



1. A detachable guide or tip device for a fishing rod comprising an annular member, spaced means longitudinally tapered secured thereto formed to fit said rod and a clamping means movable longitudinally of the rod and said spaced means for moving said means together to secure the same to the rod.

1,473,438. WINDOW. HUGH GORDON MACWILLIAM, New Rochelle, N. Y. Filed May 18, 1920. Serial No. 382,434. 2 Claims. (Cl. 20—40.)

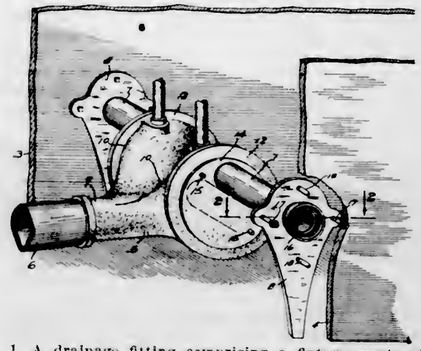
1. In a window, an upper sliding sash frame having a centrally disposed swinging member and a lower sliding sash frame having a centrally disposed swinging member, means to lock both sashes together in register-

ing position at any point and means whereby said upper sash swinging member may be swung inwardly



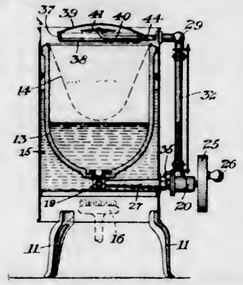
through a centrally disposed opening in said lower sash frame, when the swinging member of said lower sash frame is open.

1,473,439. DRAINAGE FITTING. SAMUEL L. MARSH, Los Angeles, Calif. Filed May 15, 1922. Serial No. 560,872. 4 Claims. (Cl. 4—18.)



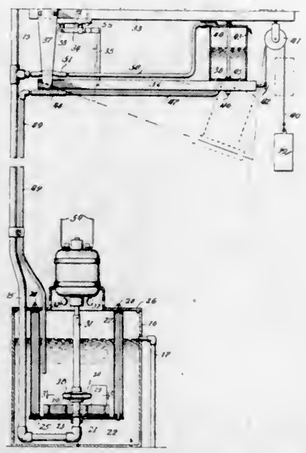
1. A drainage fitting comprising a fixture waste pipe mounting rotatably secured to the body of said fitting and including a fixture waste pipe eccentric thereto whereby said waste pipe may be moved to adjust its position.

1,473,440. COFFEE URN. JOHANNES TH. PEDERSEN, Flushing, N. Y., assignor to Aaron M. Sloss, New York, N. Y. Filed Mar. 6, 1922. Serial No. 541,262. 8 Claims. (Cl. 53—3.)



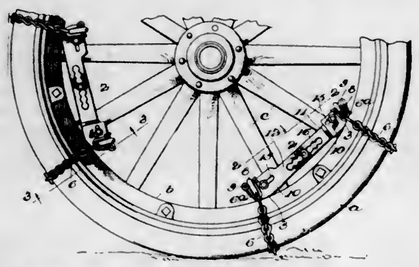
1. In a coffee urn, a body member, a beverage receptacle within the body member, a pump and pipe connections for circulating liquid from the bottom of the beverage receptacle to the upper portion of the body member, a vessel connected to the discharge end of the said pipe connections within the body member, and means associated with the vessel for causing a distribution of the liquid in the upper portion of the body member for its return to the beverage receptacle.

1,473,441. AUTOMATIC MOTOR SWITCH. THOMAS O. PERRY, Oak Park, Ill. Filed June 30, 1922. Serial No. 572,075. 5 Claims. (Cl. 230—24.)



1. In a heating system, in combination with the radiators and the air-line suction pipe leading from said radiators, of a low level cistern containing liquid, an aspirator submerged in said cistern, submerged connection between said aspirator and said air-line suction pipe, a motor for actuating said aspirator, a motor switch for control of said motor, a switch chamber displaceable downward when charged with liquid, a counter-weight disposed to raise said chamber when liquid is discharged therefrom, operative connection between said chamber and said motor switch, a supply pipe leading down from the bottom of said chamber into the liquid of said low level cistern, flexible pipe connection between the top of said chamber and said air-line suction pipe and means for restricting the passage of vapor and water from said radiators into said air-line suction pipe, substantially as herein set forth.

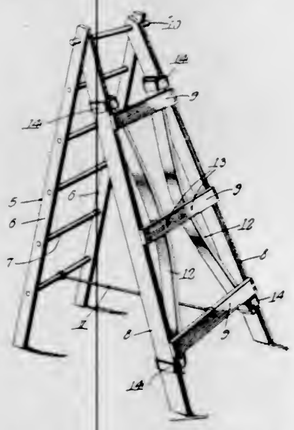
1,473,442. TRACTION OR ANTISKID DEVICE. JOHN REICHERT, Racine, Wis. Filed Nov. 18, 1919. Serial No. 338,829. 12 Claims. (Cl. 152—2.)



1. Means for securing traction chains to a wheel comprising longitudinally extensible clamping bars, means for coupling the chain ends to the bars, and clamping means for the bars, each bar embodying over-

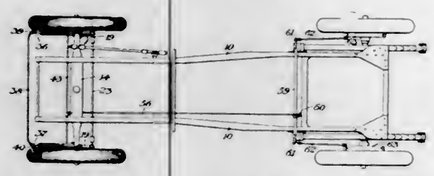
lapping sections, said clamping means extending transversely through said bars in a direction to clamp the sections together and the bars to lateral side faces of a wheel.

1,473,443. STEPLADDER. ALONZO L. ROGERS, Walkerton, Ind. Filed Apr. 21, 1922. Serial No. 555,899. 1 Claim. (Cl. 228—59.)



A step ladder comprising a front, and a back pivoted to said front, said back comprising legs, spaced transverse bars disposed upon the edges of said legs and connected therewith, longitudinally curved truss braces arranged between said legs and disposed in the plane of said legs with their edges substantially parallel with the edges of the legs, the edgs of the braces contacting with the inner faces of the legs, means for connecting the intermediate transverse bar with the intermediate portions of said braces, and straps surrounding the ends of the braces and the legs.

1,473,444. MOTOR VEHICLE. JULIUS J. ROTH, Sr., New York, N. Y. Filed Apr. 4, 1922. Serial No. 549,408. 9 Claims. (Cl. 180—83.)

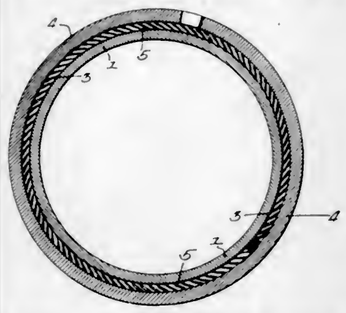


1. In a vehicle and in combination with the wheels for determining the direction of the travel of the vehicle, a mud guard, a mud guard extension, means for pivotally mounting the mud guard extension to swing in the plane of the wheel, means for yieldingly maintaining the mud guard extension in a normally elevated position, and devices whereby the mud guard extension is caused to swing simultaneously with the wheel to be maintained in alignment therewith.

1,473,445. PLASTER-BOARD LATH. JOHN SCHUMACHER, Los Angeles, Calif. Filed Nov. 14, 1921. Serial No. 514,915. 3 Claims. (Cl. 106—24.)

1. A composition for use in plaster board comprising a body formed of cement and wood shavings treated to increase their porosity.

1,473,446. MEANS FOR EXPANDING PISTON RINGS. WALTER R. SCOTT, Philadelphia, Pa. Filed June 6, 1922. Serial No. 566,360. 5 Claims. (Cl. 74—109.)

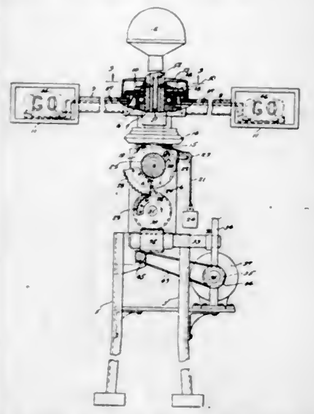


1. The combination of a piston having a groove therein; a split metallic piston ring mounted in the groove; and a coiled spring ring mounted in the groove back of the piston ring, the convolutions of the spring ring being so arranged that one convolution overlaps an adjoining convolution, which allows each convolution to act as an independent spring having a fulcrum point and a bearing point.

1,473,447. PROCESS OF DECOMPOSING SULPHIDES. MATHIAS OVROM SEM, Christiania, Norway, assignor to Det Norske Aktieselskab for Elektrokemisk Industri, Christiania, Norway. Original application filed Jan. 31, 1918, Serial No. 214,718. Divided and this application filed Dec. 9, 1919. Serial No. 343,566. 22 Claims. (Cl. 75—17.)

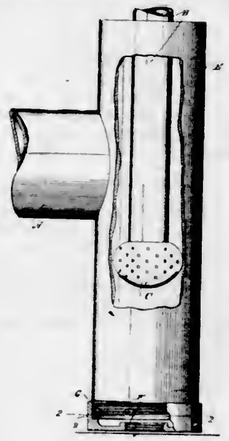
1. The process of treating complex sulphides for the selective recovery of metals therefrom, which comprises subjecting the sulphides to heat in the presence of a substance which alloys principally with only certain of the metals present and at such temperatures that decomposition of the sulphides of the alloying metal is effected and an alloy thereof formed.

1,473,448. AUTOMATIC TRAFFIC SIGNAL. CHARLES M. SNELL, Danbury, Conn. Filed May 23, 1923. Serial No. 640,867. 6 Claims. (Cl. 116—63.)



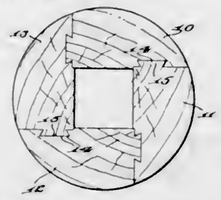
1. In a device of the character described, a signal device, a rotatable element, a one way driving connection between said element and said device, means arranged to rotate said element in one direction and through said one way driving connection to operate said device, a stop to limit the said operation, a gear segment carried by said element, a second rotating element carrying a gear segment adapted to mesh with the first segment to rotate said first element in the opposite direction to store energy in said means, and a motor for rotating said second element.

1,473,449. CONDENSER FOR STEAM-DRIVEN MACHINERY. RALPH O. STEARNS, Winthrop, N. Y., and DANIEL E. MCGRAW, Cresskill, N. J. Filed June 28, 1920. Serial No. 392,505. 5 Claims. (Cl. 137—160.)



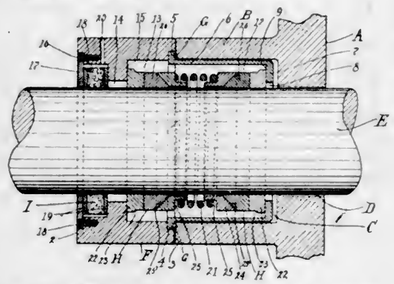
1. A device for condensing steam without creating a back pressure comprising a closed chamber provided with a steam inlet, means for introducing water into said chamber to condense the steam therein, a discharge for said chamber constituting the sole outlet for said steam, said discharge being constructed and arranged to maintain a body of water in said chamber covering said discharge whereby a vacuum is formed within said chamber due to the condensation of the steam.

1,473,450. WARP ROLL. RAY THORNTON, New Bedford, Mass. Filed Mar. 31, 1923. Serial No. 629,100. 1 Claim. (Cl. 242—68.)



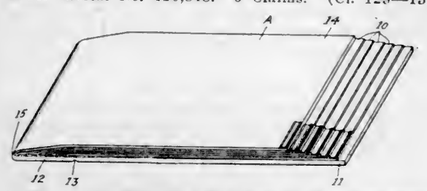
A warp roll comprising four slabs coextensive in length with the length of the roll, each said slab having two straight sides of unequal width disposed at right angles to each other and an arcuate side joining said straight sides, the wider straight side of each slab being disposed at right angles to the wider straight sides of the contiguous slabs and spaced away from the wider straight side of the non-contiguous slab which is parallel thereto, and the narrower straight side of each slab being secured to the wider straight side of its contiguous slab by a dovetail tapering throughout the length of the slab, said roll being bounded by the arcuate sides of said four slabs.

1,473,451. ROD PACKING. CHARLES T. WALTERS, St. Paul, Minn. Filed Sept. 25, 1919. Serial No. 326,359. 1 Claim. (Cl. 286—23.)



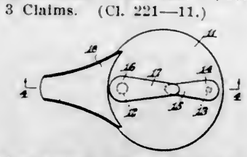
In a rod packing, the combination with a piston rod, and a stuffing box, said stuffing box including a chamber; of a thin shell-like casing member extending freely into said chamber approximately the full length thereof, said casing member having an inturned flange at its inner end spaced from the piston rod, and being formed exteriorly with an annular shoulder designed to overlap the surrounding wall of said chamber, an outer member formed with a counterbore, spaced from the piston rod and adapted to be bolted to said chamber and over said shoulder and clamping said shoulder between itself and the wall of said chamber, said counterbore forming an extension of said stuffing box chamber, and oppositely disposed rod packing elements partly located within said casing and surrounding the piston rod from said inturned flange to the bottom of said counterbore, said oppositely disposed packing elements being held separated by an extensible coil spring surrounding the piston rod, for the purpose set forth.

1,473,452. SYSTEM FILE. PAUL H. WELCKER, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed Sept. 17, 1920. Serial No. 410,848. 6 Claims. (Cl. 129—15.)



1. The combination of a back member, a cover member, a member interposed between said back and cover, means for hingedly securing said members together in a manner to cause said back and interposed member to lie in the same plane when said members are folded together, a series of separating sheets, and means extending from either side of said sheets along one edge thereof adapted to hingedly attach said sheets to said interposed member in a manner to secure said sheets on either side of the line of hinging thereof to securely hold them to said back.

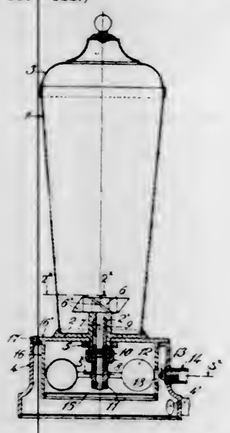
1,473,453. LIQUID CONTAINER. ALBERT W. WUNDERLICH, Arlington, Mass. Filed Jan. 21, 1922. Serial No. 530,958. 3 Claims. (Cl. 221—11.)



1. A liquid container consisting of a cylindrical can provided with an outlet hole in the upper wall thereof

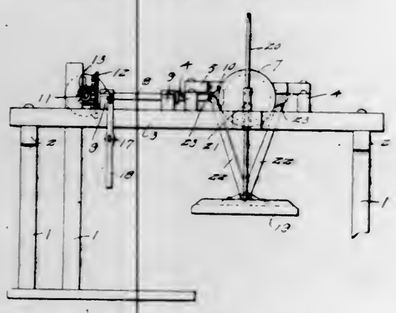
near one edge; and a thin flexible member having at one end a wide concaved edge soldered to said wall along a line concentric to the edge thereof and between said edge and outlet hole, said member being adapted to be folded flat against said wall under normal conditions but capable of being bent outwardly and concaved to form a delivery spout.

1,473,454. HYDRAULIC WHISK. ERNESTO ALBANO, Turin, Italy, assignor to Cesare Ferreri, Carrù, Cuneo, Italy. Filed June 15, 1923. Serial No. 645,801. 5 Claims. (Cl. 259—122.)



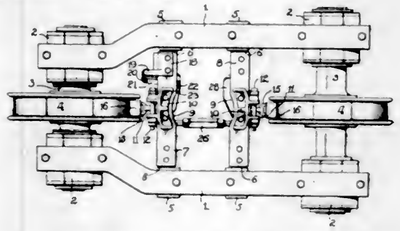
1. In a whisk the combination with a container, a cylindrical extension on the bottom thereof, having a hole therein, an agitator in said container, a shaft passing through the container into the extension to one end of which the agitator is secured, a Pelton wheel secured to the other end of said shaft in said extension and a jet device opposite said hole and delivering said jet substantially tangentially in the plane of said wheel, said container, extension and wheel removable as a unit from said jet device.

1,473,455. COTTON TRAMPER OR PACKER. JAMES F. BAILEY, Columbia, S. C. Filed May 13, 1921. Serial No. 469,182. 1 Claim. (Cl. 100—25.)



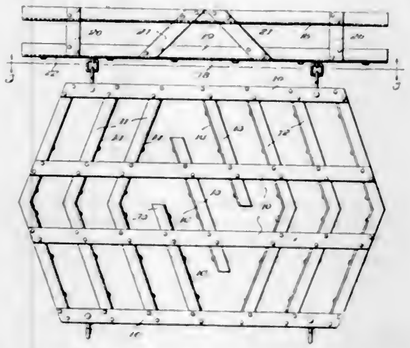
In a machine of the character specified, a supporting member, a stub axle mounted upon said member and having its ends projecting beyond opposite sides thereof, drivers loosely mounted upon the projecting ends of the stub axle, a plunger, pitmen exterior to the drivers and forming connecting means between them and the plunger and means for imparting reverse rotary movement to the drivers.

1,473,456. BRAKE RIGGING. OLIVER E. BARTHEL, Detroit, Mich. Filed Dec. 4, 1920. Serial No. 428,217. 2 Claims. (Cl. 188—33.)



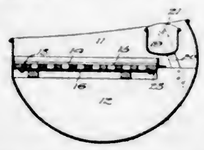
1. In a mono-rail truck, truck frames having transoms, wheels between said frames and one in advance of the other in the central vertical plane of the truck, brake heads suspended from the truck transoms between the wheels thereof, and operating means solely supported from said truck transoms for operating said brake heads.

1,473,457. DRAG. OSCAR M. BLOOD, Herman, Minn. Filed Nov. 27, 1922. Serial No. 603,543. 6 Claims. (Cl. 37—143.)



1. A road drag comprising a frame, road engaging elements arranged in groups at the opposed ends of the frame, said elements being of angular formation, with one group reversely disposed with relation to the other group.

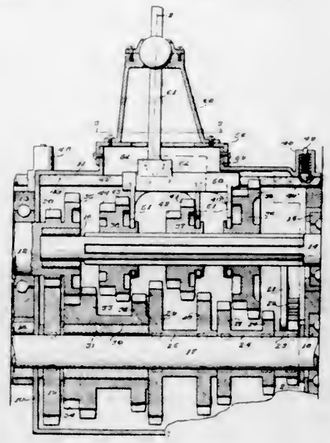
1,473,458. CHERRY AND CONFECTION CENTER DEPOSITING APPARATUS. THEODORE BOSSHARD, Brooklyn, N. Y. Filed June 9, 1922. Serial No. 567,217. 6 Claims. (Cl. 107—7.)



1. An apparatus for the depositing of cherry and other confection centers including a receptacle, a tray positioned within said receptacle and having a plurality of openings therein for receiving cherries and the like, said tray also having one of its edges spaced from the inner face thereof, and means adjacent said edge from which articles are deposited onto said tray.

5. An apparatus for the depositing of cherry and other confection centers, comprising a receptacle, an article holder pivotally supported within said receptacle, a tray removably mounted within said receptacle below said article holder and provided with a plurality of recesses adapted to receive articles from said holder whereby the same are evenly distributed over said tray, and means for removing said articles from said tray and depositing said articles in the same relative positions that they assumed within the tray.

1,473,459. SPEED GEARING. PAUL E. BOTTINELLI and MAURICE ARRIGHI, West New York, N. J. Filed Apr. 18, 1922. Serial No. 554,649. 7 Claims. (Cl. 74—58.)



1. In a speed gearing, the combination of a drive shaft, a driven shaft, a countershaft constantly rotated by the drive shaft at a fixed speed, a gear free on the countershaft and constantly rotated by the drive shaft at a fixed speed, and a gear on the driven shaft shiftable to engage said first mentioned gear.

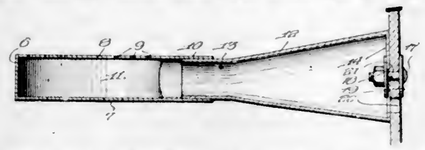
1,473,460. COLLAR-FASTENING DEVICE. GEORGE L. BRISBIN, Punxsutawney, Pa. Filed Nov. 6, 1922. Serial No. 599,314. 2 Claims. (Cl. 24—101.)



1. As a new article of manufacture, a collar fastening device consisting of a length of resilient wire bent medially to provide a hook, consisting of downwardly diverging legs connected by a bight at their upper ends, and an attaching portion at the lower extremity of each leg consisting of an upwardly turned and outwardly inclined limb, an inwardly and outwardly curved portion and a downturned terminal leg, all the parts being arranged in spaced relation to each other with the hook foremost and the terminal legs at the rear.

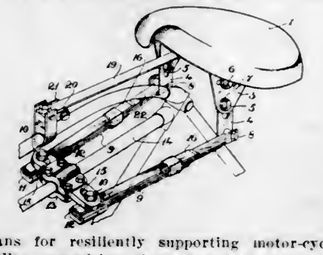
1,473,461. FUEL SAVER. ARTHUR BURDICK, Pittsfield, Mass. Filed Sept. 18, 1922. Serial No. 588,869. 3 Claims. (Cl. 110—75.)

1. In combination with a furnace door having an air inlet formed therein, a furnace attachment for aiding combustion, comprising a flat hollow head having its upper face perforated, a tubular tapering stem carrying said hollow head on its smaller end, a plate having a T-shaped slot formed therein carried in the larger end of said tapering tubular stem, and a bolt for projecting



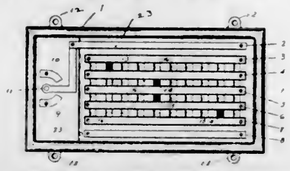
through said T-shaped slot to adjustably mount said plate on the furnace door so that the shank of the T may be alined with the air inlet.

1,473,462. MOTOR-CYCLE AND LIKE SADDLE. GUY HENRY CHAMP and GEORGE ERNEST OSBORNE KAY, Warwick, England, assignors to J. B. Brooks and Company Limited, Birmingham, England. Filed June 2, 1922. Serial No. 565,298. 2 Claims. (Cl. 208—100.)



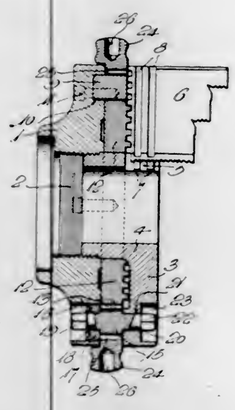
1. Means for resiliently supporting motor-cycle and like saddles comprising three parallel-motion members substantially of equal length of which at least one is a leaf spring, means for mounting the members in superimposed parallel planes two in a lower plane upon opposite sides of the machine frame and one in an upper plane centrally above the machine, means for connecting the corresponding ends of the members to the saddle, and means for connecting the opposite corresponding ends of the members to the machine at definite fixed positions on the latter, said positions being situated in a plane substantially parallel to the plane in which are situated the points of connection of the said members to the saddle.

1,473,463. COMBINATION SWITCH. ETHELBERT W. CHANDLER, Portland, Oreg. Filed Aug. 23, 1919. Serial No. 319,486. 8 Claims. (Cl. 200—43.)



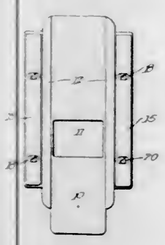
1. In a combination switch of the class described, a grooved base part, with the ridges between the grooves notched to correspond to the number of figures used in the combination, alternate longitudinal strips of non-conducting and conducting material fastened to said base part so that their top surfaces lie in the same plane, a bent metallic conductor bridging each ridge, adapted to fit in a notch thereof and whose ends contact with the strips on either side, a longitudinally slotted guard plate attached to the said base part, with the index numbers of the combination on its upper surface, sliding contacts adapted to complete the circuit between the metallic strips and bent conductor pieces, when moved to predetermined positions as indicated by their index numbers, and means for covering the exposed keys of said sliding contacts.

1,473,464. CHUCK. ALBERT E. CHURCH, New Britain, Conn. Filed Nov. 16, 1922. Serial No. 601,372. 1 Claim. (Cl. 279—114.)



A chuck comprising a jaw-carrying head, a jaw-operating scroll in said head having gear teeth, a hand-rotated annulus carried by said head, said annulus being concentric with said scroll and also having gear teeth, and a single set of pinions mounted in the head and exposed for direct operation, said pinions meshing with the gear teeth of the scroll to forcibly turn the latter when any of said pinions is directly operated and also meshing with the teeth of said annulus for rapidly rotating the scroll when said annulus is turned.

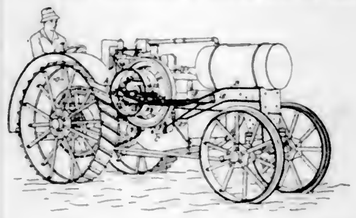
1,473,465. GUIDE. MAURICE E. CLARK, Grenada, Miss. Filed Mar. 11, 1922. Serial No. 543,004. 2 Claims. (Cl. 88—17.)



1. In a device for the purpose set forth, a tracker plate having a view opening, elevated tracks to the opposite sides of the opening, and reversible and laterally adjustable guide members on the plate to the outer sides of the tracks.

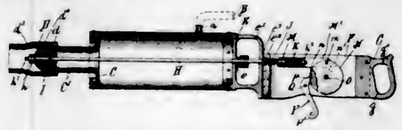
1,473,466. CLUTCH-LEVER ATTACHMENT FOR TRACTORS. LEYTON CONBOY, Asquith, Saskatchewan, Canada. Filed Jan. 23, 1923. Serial No. 614,474. 6 Claims. (Cl. 192—18.)

1. An attachment for tractors comprising a hand lever, means to fulcrum said lever on a fixed part of the tractor at the rear of the tractor for operation by the operator, a connecting rod extending forwardly from said lever, a clutch lever connected with said rod adapted to engage or disengage the clutch of the drive pulley of the tractor, and means to mount said clutch lever on a fixed part of the tractor; together with a brake shoe, means for mounting said brake shoe on the supporting means for



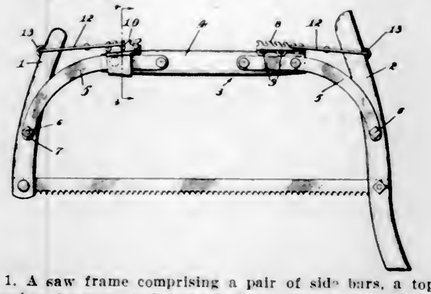
said clutch lever, and means in the path of movement of the clutch lever to be engaged by the latter for throwing said brake shoe into engagement with the pulley.

1,473,467. PNEUMATIC DEVICE FOR CLEANING BOILER TUBES. CHARLES LOUIS CORNE, Broussard, La. Filed Nov. 17, 1922. Serial No. 601,556. 8 Claims. (Cl. 122—390.)



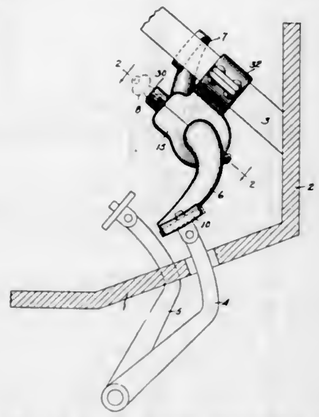
1. A pneumatic gun for cleaning out tubes of boilers, comprising a cylindrical barrel with means for supplying compressed air to same, a head mounted in one end of said barrel and provided with a nozzle, a second head closing the opposite end of said barrel and provided with a packing gland, a stock connected to said second head, a valve rod passing through said barrel and said gland, a valve mounted on said rod near one end thereof and adapted to close said nozzle, a yoke having a cross bar slidably mounted on said rod near the other end thereof, a notched sear block journalled in said stock and pivotally connected to the arms of said yoke, a trigger pivoted to said stock and normally engaging said sear block to hold the valve rod in the retracted position, and a safety spring normally pressing said valve rod rearward in said yoke to keep the valve closed, but yielding to open said valve when the pressure in the barrel becomes excessive.

1,473,468. TENSIONING DEVICE FOR SAWS. ALPHONSE CÔTÉ, Eel River, New Brunswick, Canada. Filed June 12, 1922. Serial No. 567,770. 2 Claims. (Cl. 145—32.)



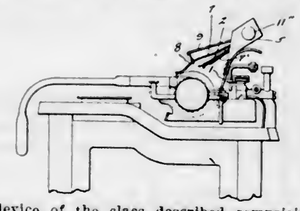
1. A saw frame comprising a pair of side bars, a top member between and spaced from said bars, metallic straps connecting said top with the bars, the straps being pivoted to the bars, toothed members fixed to the ends of the top, and links attached to the side members and adjustably engageable with the toothed members.

1,473,469. AUTOMOBILE LOCK. CHARLES CYNAMON, New York, N. Y. Filed Nov. 25, 1921, Serial No. 517,610. Renewed Sept. 19, 1923. 6 Claims. (Cl. 70—126.)



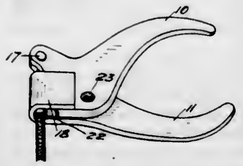
1. A theft lock for automobiles comprising a pair of oppositely disposed locking arms adapted to engage certain operating parts of an automobile for holding the same against movement, means for locking said arms in a given position, springs for returning said arms to an inoperative position, and a key operated mechanism for disengaging the means for locking the arms whereby said arms may be quickly moved by said springs to an inoperative position.

1,473,470. TYPEWRITER ATTACHMENT. EDWARD L. DAILEY, Evansville, Minn. Filed Sept. 16, 1922. Serial No. 588,674. 2 Claims. (Cl. 197—180.)



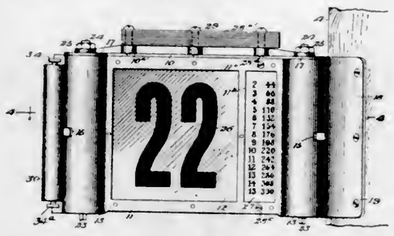
1. A device of the class described comprising a rock shaft, means for supporting the same on a carriage of a typewriter, a plate hinged to the shaft, a yoke carried by the shaft, means for normally holding the yoke above the plate, means for forcing the yoke downwardly to fold a sheet of paper over the lower edge of the plate and means for moving both the plate and yoke upwardly.

1,473,471. TOOL FOR ATTACHING TIPS TO SHOE STRINGS OR THE LIKE. LOUIS D. DAVIS, Carbondale, Pa. Filed Aug. 16, 1922. Serial No. 582,183. 2 Claims. (Cl. 81—15.)



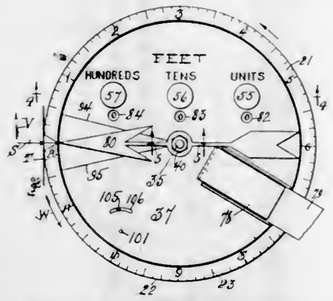
1. A tool of the character described, comprising a pair of flat levers, having offset portions at their forward ends, a pivot connecting said offset portions, a groove in the forward end edge of one of said levers, a rebent portion on the forward end of the other lever extending in parallelism thereto and forming a kerf adapted to receive the grooved lever, the bottom of said kerf and said groove lying in radial relation to said pivot and having their longitudinal dimensions lying transversely of the longitudinal dimensions of the levers.

1,473,472. INDICATOR. JAMES FOSTER DODD, Delaware, Ohio. Filed Mar. 14, 1922. Serial No. 543,602. 5 Claims. (Cl. 40—86.)



1. In an indicator of the class described, a web bearing matter to be displayed, rollers on which said web may wind, a structure in which said rollers are adapted to turn and including a frame provided with circular ends at the top and bottom thereof, and a removable side presenting windows for said display matter on the web for each side of said frame, said sides enclosing both said web and said rollers, together with means at the ends of said sides in co-action with said frame for clamping said sides on said frame.

1,473,473. MEASURING APPARATUS. OTIS J. DORWIN, New York, N. Y. Filed Aug. 16, 1920. Serial No. 403,876. 11 Claims. (Cl. 33—142.)

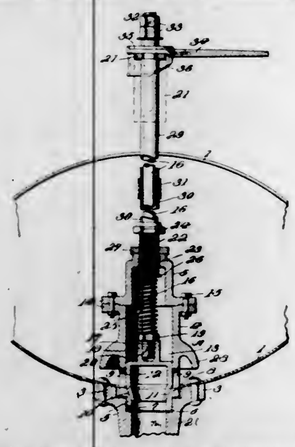


1. In a measuring apparatus the combination of a casing having a curved circumferential rolling edge with a scale, a pivot in the axial center of the casing and fastened thereto, a journal bearing journaled on the pivot, a dial plate with a pointer extending from the journal bearing, counters meshing with each other rotatively carried on the dial plate and a pin extending from the casing coacting with one of said counters.

1,473,474. OUTLET VALVE FOR TANK CARS. WHITTLESEY ADAMS DRAKE, Petroleum, Ohio, assignor to The Pennsylvania Tank Car Company, Sharon, Pa., a Corporation of Ohio. Filed Jan. 7, 1920. Serial No. 349,954. 3 Claims. (Cl. 137—21.)

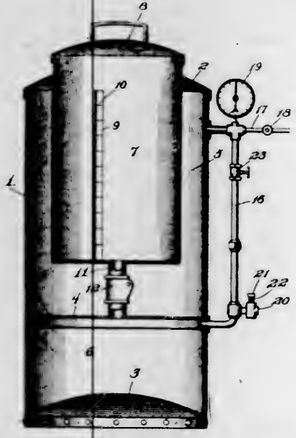
2. The combination with a tank, of a valve casing having an outlet port and an internal valve controlling the port, a valve rod passing through the casing, an adjustable bushing surrounding the valve rod and projecting into the case, an expanding spring between the valve and

the inner end of the bushing, a bracket at the top of the tank through which the upper end of the valve rod passes, and an adjustable jacket surrounding the valve



rod with its lower end engaging the upper end of the adjustable bushing and its upper end engaging the bracket, the parts arranged for the purpose described.

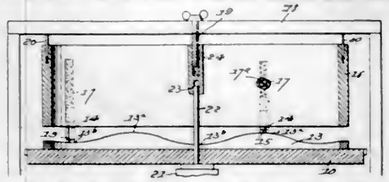
1,473,475. OIL INJECTOR. HAROLD A. EKLUND, Tulsa, Okla. Filed Sept. 14, 1922. Serial No. 588,228. 4 Claims. (Cl. 221—74.)



1. An oil injector comprising an air pressure chamber, an oil pressure chamber arranged below the air pressure chamber, an oil container extending into the air pressure chamber, a check valved connection between the oil container and the oil pressure chamber for the flow of oil by gravity from one to the other, a valved discharge outlet from the oil pressure chamber, and means for conducting air from the air pressure chamber to the oil pressure chamber for an oil discharging action.

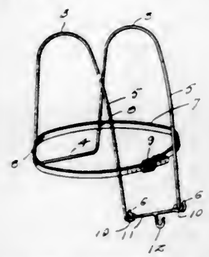
1,473,476. GOVERNOR FOR SPRING MOTORS. EARL ELLIGAN, Chicago, Ill. Filed Apr. 23, 1921. Serial No. 463,875. 2 Claims. (Cl. 188—85.)

1. A governor for motors having, in combination with a rotary driven disk, an annular corrugated run-way movable with said disk and provided with alternately disposed rounded crests and valleys, an annular follower being concentrically disposed with reference to said run-way and formed in the edge facing the run-way with guides disposed perpendicular to the driven disk, bearing



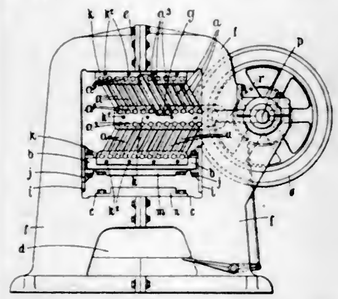
plungers yieldingly mounted in said guides and provided with frictional shoes engaging said run-way, the said plungers being so disposed that alternate ones engage the crests, while the intervening ones engage the valleys.

1,473,477. CARRYING HARNESS. HENRY FICK, Menominee, Mich. Filed Nov. 29, 1921. Serial No. 518,625. 1 Claim. (Cl. 224—5.)



A carrying harness consisting of a metallic strand formed into a frame having spaced shoulder straps, a securing belt to the rear of which said straps are fastened, the free ends of the strap depending at the front below the belt and terminating in fastening members, and an elongated supporting member bridging said ends and having fastening members detachably engaging the first mentioned fastening members.

1,473,478. MECHANICAL PRESS. FRANK HUMPHRIS, Boscombe, Bournemouth, England, assignor of one-half to Kenneth Alexander Roberts, London, England. Filed Oct. 24, 1921. Serial No. 509,994. 10 Claims. (Cl. 78—41.)



1. In a mechanical press, a ram, a bearer plate, edge pressure ram plates having rounded ends and of which the length substantially equals the width of the ram and bearer plate, said ram and bearer plate having correspondingly rounded seats for the respective ends of the edge pressure ram plates extending from side to side of the said ram and bearer plate, withdrawing plates on the ram and bearer plate, and trunnions extending from the said edge pressure ram plates into bearings provided therefor in the said withdrawing plates.

1,473,479. AUTOMOBILE LICENSE PLATE. THOMAS HUNTER, Albany, N. Y. Filed Aug. 12, 1921. Serial No. 491,857. 1 Claim. (Cl. 40—63.)

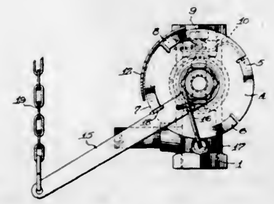


A device of the class described comprising a body plate having a depressed portion with apertures through the body within the depression, an auxiliary plate nitting within the depression with its outer face flush with the outer face of the body and provided with apertures registering with the apertures in the depression, bolts extending through said registering apertures and each provided with a head at one end and with a nut bearing against the inner face of the body plate, each of said bolts having a transverse aperture in advance of the nut thereof, and seal devices inserted through said apertures.

1,473,480. METHOD OF MAKING STEEL OR SEMI-STEEL CAR WHEELS. WILLIAM C. KLEIN, Allentown, Pa. Filed Oct. 19, 1921. Serial No. 508,827. 1 Claim. (Cl. 22—1.)

The method herein described of producing semi-steel or steel car wheels, which consists in reducing scrap steel to a molten state, treating the molten steel in an electric furnace to refine the same, adding a metal alloy to the steel while in a molten state in the electric furnace, said alloy being such as to toughen and harden the steel when set, then pouring the molten mass into a mold, and finally finishing the same when cooled.

1,473,481. VALVE-OPERATING MECHANISM. ARTHUR F. KLEIST, Pontiac, Mich., assignor to Central Stamping Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 20, 1921. Serial No. 493,949. 5 Claims. (Cl. 137—139.)

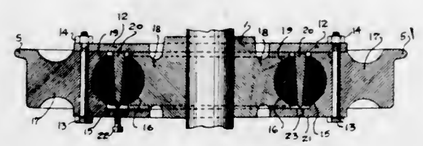


1. A valve operating mechanism comprising a disk having a plurality of lugs formed upon its periphery at unequal angular distances, an operating lever movable upon the axis of the disk, a spring acting to cause angular movement of the lever in one direction and to hold it in contact with the disk, and a stop mechanism adapted to engage the disk to limit the extent of its angular movement.

1,473,482. COMPOSITION OF MATTER FOR FILLING ROOT CANALS IN TEETH. PAUL W. KRUGER, Attala County, Miss. Filed July 25, 1921. Serial No. 487,416. 14 Claims. (Cl. 106—6.)

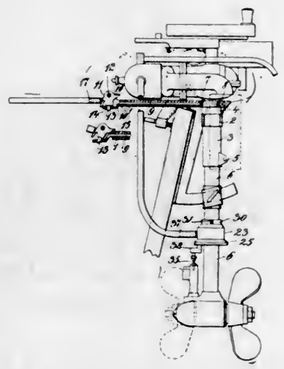
1. A composition of matter for filling root canals in teeth, containing metal, suitable for dental fillings, in loose form, and a germicide with which the metal remains in loose form.

1,473,483. RESILIENT WHEEL. FRANK LAUHOFF, Detroit, Mich. Filed Aug. 15, 1921. Serial No. 492,362. 3 Claims. (Cl. 152—28.)



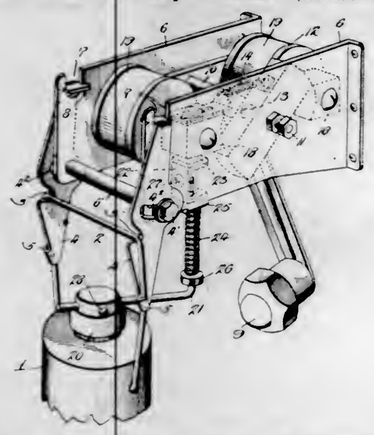
3. In a wheel, a hub, a rim, an annular member between said rim and hub, and in spaced relation to each, an annular cushion member between said rim and said annular member, an annular cushion member between said hub and said annular member, each of said cushioning members being semicylindrical in cross section, and said annular member having a configuration to cause simultaneous compression of both of said cushioning members by lateral adjustment of said annular member.

1,473,484. STEERING ARRANGEMENT FOR MOTOR-DRIVEN BOATS. KARL LENCK, Berlin, Germany. Filed Dec. 10, 1914. Serial No. 876,587. 4 Claims. (Cl. 115—18.)



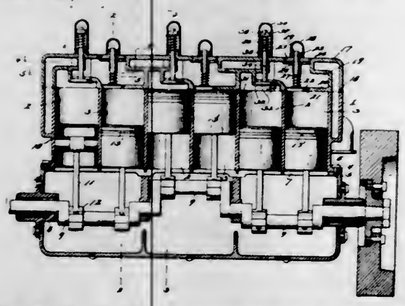
4. Steering arrangement for motor-driven boats having a propeller casing revoluble around a vertical axis, said propeller casing supported by a tube secured in a clamping sleeve, said clamping sleeve revolubly fitted in the tiller, a pump pipe connected to one of two bodies forming a water distributor, in one of said bodies a passage communicating with said pump pipe, the second body of the distributor revolving over said first body and having a nipple to which the flexible pump tube is attached, said nipple communicating with said passage.

1,473,485. SOUND-PRODUCING MECHANISM. FREDERICK B. LITTLE, Chicago, Ill., assignor to J. C. Deagan, Inc., Chicago, Ill., a Corporation of Illinois. Original application filed Apr. 2, 1920, Serial No. 370,834. Divided and this application filed Oct. 20, 1921. Serial No. 508,997. 8 Claims. (Cl. 177—7.)



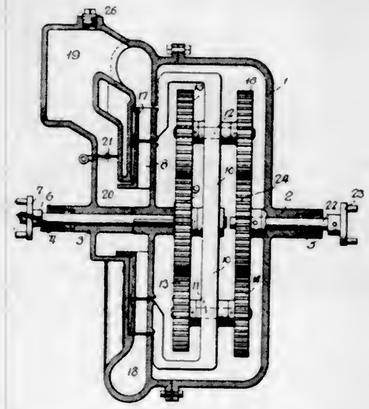
2. A sound producing device including a vibrant element; a hammer mounted to swing, the vibrant element being within the range of movement of the hammer to be struck thereby; a hanger supporting the vibrant element and having an angular extension; a support formed with a notch in its upper side into which said extension is dropped and in which the hanger is mounted to swing to adjust the hanger and the vibrant element toward and from the hammer; and means for securing the hanger in positions to which it is swung.

1,473,486. INTERNAL-COMBUSTION ENGINE. WALTER F. MCCALLEN, Independence, Mo., assignor of one-half to Ambrose R. Elliott, Independence, Mo. Filed Mar. 3, 1922. Serial No. 540,739. 17 Claims. (Cl. 123—59.)



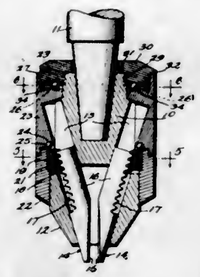
15. In an internal combustion engine, a compression and explosion chamber lying side-by-side in parallelism to each other, pistons adapted to operate in said cylinders so as to always be in the same phase, a transfer chamber adapted to be brought into communication with said cylinders, means operable by pressure in the compression cylinder and transfer chamber respectively for forming said communications, the proportional capacity of said cylinders and chamber being such that there will be a flow of gas from the compression cylinder to the transfer chamber during the compression stroke of the pistons and from the transfer chamber to the explosion chamber during the expansion stroke and a portion of the compression stroke.

1,473,487. HYDRAULIC CLUTCH FOR TRANSMITTING ROTATIVE MOTION FROM A DRIVEN SHAFT TO A DRIVING SHAFT. EDWARD F. MCCARTHY, Chicago, Ill. Filed Feb. 27, 1920. Serial No. 361,708. 8 Claims. (Cl. 74—34.)



1. A device of the character described embodying a rotative element adapted to pick up and discharge liquid, an outer element circumscribing the first mentioned element, and a plurality of gears arranged so as to set the aforesaid elements in opposite directions of rotation when a rotative motion is imparted to the first mentioned rotative element, the said liquid circulating from the outer element to the first recited element.

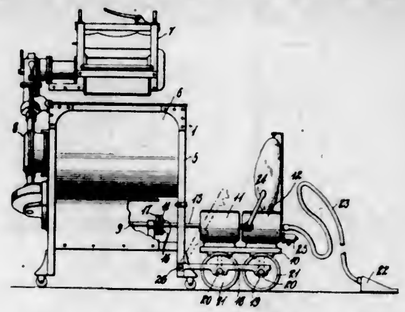
1,473,488. CHUCK. HARRY R. MCCONNELL, Richmond, Va., assignor to The McConnell-Browning Engineering Company, Richmond, Va., a Corporation of Virginia. Filed Nov. 7, 1922. Serial No. 599,587. 6 Claims. (Cl. 279—62.)



1. A chuck comprising a body portion, means carried thereby for gripping a tool, actuating means for moving said gripping means into loose engagement with the tool, a rotatable sleeve engaging said actuating means and provided with a cam, and an antifriction element mounted between said cam and said body portion to move said gripping elements into firm engagement with the tool upon rotation of said sleeve.

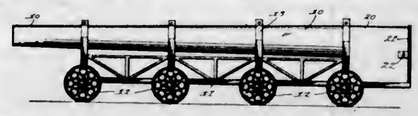
1,473,489. WASHING MACHINE. BRUNSON S. MCCUTCHEN, Plainfield, N. J. Filed Oct. 5, 1920. Serial No. 414,884. 1 Claim. (Cl. 74—106.)

In a device of the character described, a frame, a main drive shaft mounted in said frame, a portable power unit for driving said shaft comprising a wheeled carriage, the wheels of said carriage having extended



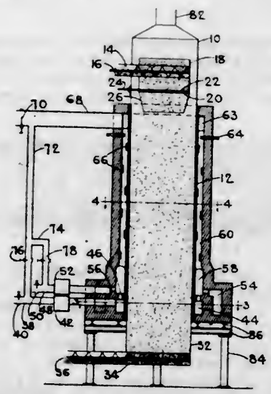
axles, and pivoted arms on said frame, adapted to swing down over and engage said extended axle ends to lock said power unit to said frame.

1,473,490. BOMB THROWER. WLADYSLAW MAKOWIECKI, Philadelphia, Pa. Filed Mar. 2, 1923. Serial No. 622,322. 5 Claims. (Cl. 124—12.)



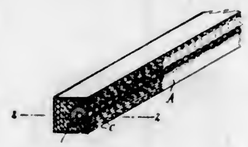
1. A bomb thrower of the character described comprising a barrel having a seat for the bomb, an ejector slide at its opposite end, adapted to fire a shell to eject the bomb, means for normally holding said ejector slide in its rear position of rest, means for releasing said slide to fire the shell, and means for guiding said slide back into its rear position ready for firing after each firing operation.

1,473,491. METHOD AND APPARATUS FOR TREATING MATERIALS FOR FILTERING, DECOLORIZING, AND SIMILAR PURPOSES. FRED W. MANNING, Brooklyn, N. Y., assignor to Manning Refining Equipment Corporation, a Corporation of Delaware. Filed Oct. 6, 1922. Serial No. 592,907. 13 Claims. (Cl. 252—2.)



1. In the revivification and activation of pulverulent purifying agents of the type described, the method which comprises dropping said pulverulent agent through a heated body of gases and in proximity to heated surfaces.

1,473,492. PACKING. CHARLES I. E. MASTIN, Midland Park, N. J. Filed May 27, 1920. Serial No. 384,750. 6 Claims. (Cl. 154—45.5.)



1. A flexible packing member including a yielding body having a working face and a flexible less yielding spiral core contained in the body and having its exterior presented to said face.

1,473,493. MEANS FOR CONVERTING A CONTINUOUS ROTARY MOTION INTO AN INTERMITTENT MOTION. GIORGIO MICHETTI, Rome, Italy. Filed Oct. 3, 1921. Serial No. 504,981. 5 Claims. (Cl. 74—41.)

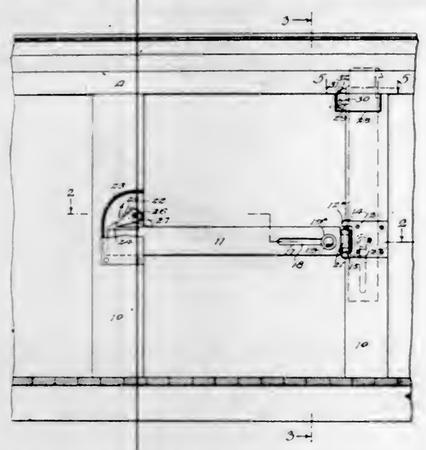


1. A motion converting device comprising a continuously rotatable, peripherally slotted, actuating drum, a toothed disk rotatable with the drum, an intermittently rotatable actuated star wheel, said star wheel having a series of arms, with offset lugs at their ends, the peripheral slot completely encircling the drum, the slot having notches for permitting entrance into said exit from, the drum, of the arms of the star wheel, whereby, through the medium of said toothed disk, an intermittent rotary motion is imparted to the star wheel, by continuous rotation of the drum, the lugs on the star wheel arms, extending alternately to the right and to the left, and the notches in the drum slot being arranged alternately, and in pairs, to the right and to the left of the slot.

1,473,494. BULL BOARD FOR CATTLE CARS. FRED J. S. MIELY, Gentry, Ark. Filed Mar. 29, 1922. Serial No. 547,772. 9 Claims. (Cl. 20—21.)

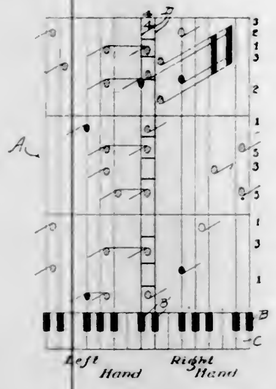
1. A bull board for the doorways of cattle cars, a hinge, and means slidably and loosely securing said bull board at one end to said hinge, the bull board being turnable

in its own plane about said means and swingable horizontally on said hinge, said hinge being adapted to be



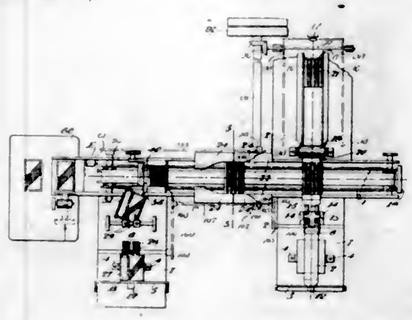
secured to the car adjacent the doorway, and said bulletin board when in position extending across said doorway.

1,473,495. SHEET OF MUSIC. FRED R. MILLER, San Francisco, Calif. Filed Mar. 2, 1922. Serial No. 540,501. 2 Claims. (Cl. 283—47.)



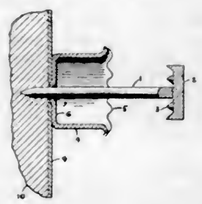
1. A sheet of music having a staff for musical notation comprising a plurality of groups of continuous parallel lines with spaces between the lines of each group and between the groups, a representation of a piano keyboard at the bottom of the said staff with the said lines terminating at the black keys thereof and the said spaces terminating at the white keys thereof, two spaced apart and relatively heavy lines separating the staff into right and left parts, said lines terminating at the two middle black keys of the said keyboard representation and the space between said lines corresponding to the white key of said keyboard between said black keys, and notes on the lines of said staff and in the spaces between the same, said notes indicating by their structure certain of the keys on said keyboard and further including stems some of which being turned to the left to indicate keys to be played by one hand and others turned to the right to indicate keys to be played by the other hand.

1,473,496. MACHINE FOR USE IN FITTING TOGETHER BOXES OF THE SLIDE AND SHELL TYPE. WALTER EVERETT MOLINS, London, England. Filed June 23, 1921. Serial No. 479,912. 13 Claims. (Cl. 93—3.)



1. In an apparatus of the class described in combination, a conveyor, means for feeding a slide upon the conveyor, means for feeding a shell toward the conveyor, means for holding the shell at an angle to the conveyor whereby the movement of the conveyor is adapted to insert a corner of the slide into the shell, means for inserting the end of the slide fully into the shell and means for releasing said holding means.

1,473,497. WIRE FASTENER. SAWYER Y. MONCKTON, San Francisco, Calif. Filed Nov. 16, 1922. Serial No. 601,335. 9 Claims. (Cl. 72—1.18.)



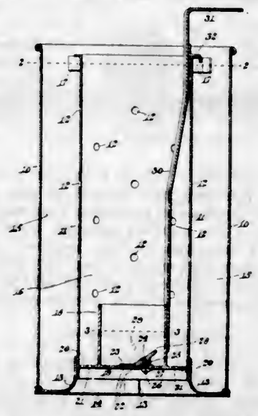
1. As an article of manufacture, a wire fastener comprising a body member of cup shape and a cooperating shank adapted to be driven within the recess of the body.

1,473,498. TUNNELING MACHINE. EDMUND C. MORGAN, Richmond Hill, N. Y.; Olive Eugenie Morgan executrix of said Edmund C. Morgan, deceased. Filed Oct. 6, 1917. Serial No. 195,034. 171 Claims. (Cl. 262—7.)



109. In a tunneling machine, the combination with supporting framework, of cutting apparatus mounted on the forward end thereof, a supplemental frame pivoted to the rear end of said framework, means for anchoring said supplemental frame, means mounted on the forward portion of said framework in position to engage the lateral walls of the tunnel to shift the framework laterally on its pivotal connection with said supplemental frame, and means for operating said cutting apparatus including the feed thereof.

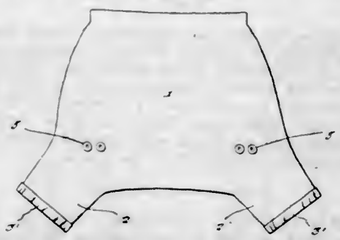
1,473,499. MILK DISPENSER. ALFRED L. MORON, East Boston, Mass. Filed Dec. 8, 1922. Serial No. 605,627. 10 Claims. (Cl. 221—97.)



1. The combination of a liquid container having communicating chambers, and a ladle provided with a perforated flange substantially fitting one of said chambers.

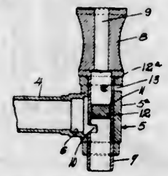
5. The combination of a liquid container; a removable perforated cylinder positioned therein; a ladle having a perforated flange substantially fitting said cylinder and provided with openings in the bottom thereof; and a valve for closing said openings when the ladle is raised.

1,473,500. UNDERGARMENT. CHARLES L. MOWRER, Hagerstown, Md. Filed July 17, 1922. Serial No. 575,618. 1 Claim. (Cl. 128—288.)



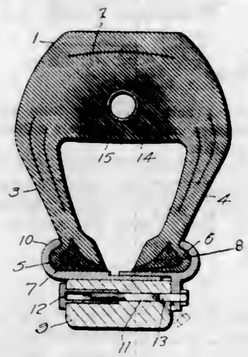
A garment of the class described formed of rubber and having cuffs at its ends, said cuffs being formed of rubber bands spaced apart and reinforcing strips between the bands.

1,473,501. DRINKING FOUNTAIN. WILLIAM E. MUNSLOW, Steubenville, Ohio. Filed June 10, 1921. Serial No. 476,539. 2 Claims. (Cl. 299—9.)



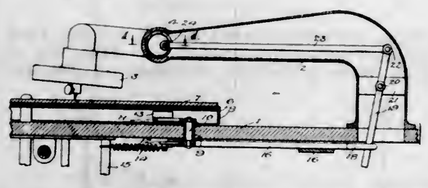
1. In a device of the character described, a tubular member provided with a head in direct communication with said member and disposed substantially at right angles thereto, a hollow valve open at both ends rotatably mounted through said head and provided with openings in its peripheral wall spaced apart axially and circumferentially of the valve, and a plug within the valve between said openings, said plug being adjustable axially of the valve for varying the effective size of one of said openings.

1,473,502. RESILIENT TIRE. CHARLES EDWARD MURRAY, Jr., Trenton, N. J. Filed July 1, 1922. Serial No. 572,210. 6 Claims. (Cl. 152—36.)



3. In a hollow resilient tire, means for expanding the periphery thereof, said means comprising an expanding device including a metallic member maintained out of contact with the tire and a cushioning member surrounding the metallic member, said cushioning member comprising an annular block of rubber contacting with the inner periphery of the tread portion of the tire and such block approximating in composition the material of the tire at points of contact therewith but being of harder material at other points and being vulcanized to the inner periphery of the tire.

1,473,503. AUTOMATIC STOP FOR TALKING MACHINES. KARAKIN NALBANTIAN, New York, N. Y. Filed Oct. 7, 1922. Serial No. 593,089. 4 Claims. (Cl. 192—120.)

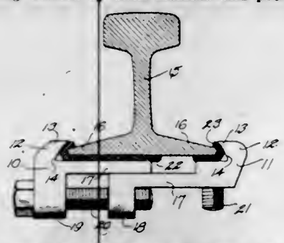


1. An automatic stop for talking machines, comprising a friction member adapted to engage the turntable of a talking machine, and means for swinging said friction member into engagement with said turntable, said means including a plurality of levers arranged in the tone arm of the machine, and means in the tone arm for connecting one of the levers to the sound box supporting tube.

1,473,504. RAIL CLAMP. RICHARD EARL NEELY, Terre Haute, Ind. Filed Dec. 23, 1922. Serial No. 608,753. 1 Claim. (Cl. 191—43.)

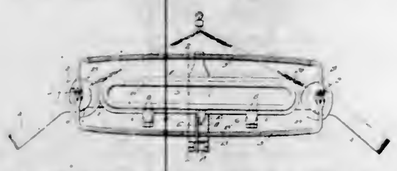
A clamp of the class described comprising a pair of relatively movable members, each of said members including a head, a lip extending from said head, a bar also extending from said head, the bars of one head being offset with respect to the bars of the other heads, with

the bars arranged in overlapping relation, means carried by one of said members for attachment to an insulator, a lug carried by each member and provided with



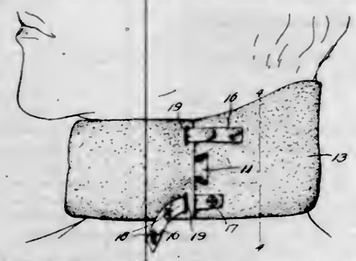
an opening and a bolt extending from the openings, whereby the members may be relatively adjusted and held in adjusted position.

1,473,505. TRAP. NELS S. NELSON, Harvey, N. Dak. Filed Oct. 29, 1921. Serial No. 511,321. 3 Claims. (Cl. 43—88.)



2. A trap of the class described comprising a base part having a flange at one side thereof and a longitudinally extending bead at the center thereof, the ends of the base being bent upwardly, jaw members pivoted to said upwardly extending ends, said jaw members being of substantially angle shape in cross section with the horizontal flanges of arched shape, a spring engaging said jaw members, a trip pan movably connected with the base, said pan having a flange at one side, a bead extending around the pan adjacent the edges thereof, said spring having a cup-shaped part through which the jaw members pass and notches on the outer edge of the cup-shaped part for receiving the jaw members when the same are in open position.

1,473,506. THERMOTHERAPEUTIC APPLICATOR. SYLVIA NESSLER, New Holland, Ill. Filed May 25, 1922. Serial No. 563,603. 2 Claims. (Cl. 128—259.)



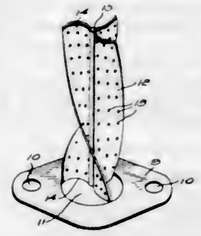
1. A thermotherapeutic applicator comprising an elongated moisture-proof container, a fabric envelope for the container provided at one end with an opening said container and envelope being proportioned to encircle the neck of the wearer, a loop formed upon the container and extending through the opening and beyond the end of the envelope, and straps carried by the envelope at said end proportioned to be inserted through openings in the opposite end of the envelope and to interact to adjust the device upon the part to which it is applied.

1,473,507. CASTING ROD. CARL AUGUST OBERMAIER, Lompoc, Calif. Filed Sept. 29, 1922. Serial No. 591,378. 7 Claims. (Cl. 43—19.)



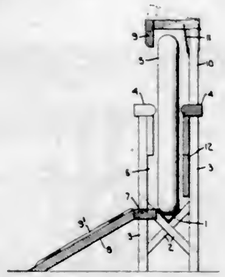
4. In a casting rod, a barrel, a tubular member having a portion extending into an end of said barrel in spaced relation thereto and combining therewith to form an air chamber, a line carrying projectile in said tubular member, and a projectile ejecting member movable in said barrel to eject the projectile from said tubular member and having a portion engageable in said air chamber to cushion the movement of said ejecting member.

1,473,508. MIXING DEVICE. CHARLES B. O'NAN, El Paso, Tex., assignor of one-half to J. C. Smith, El Paso, Tex. Filed Sept. 20, 1921. Serial No. 501,947. 2 Claims. (Cl. 48—180.)



2. A mixer for internal combustion engines comprising a plurality of radially disposed perforated blades adapted to be arranged in the intake pipe between the carburetor and manifold, the inner edges of said blades being connected to each other at substantially the axis of said pipe, said blades being curved in transverse cross-section, and the outer edges of said blades being arranged spirally of the axis of the pipe.

1,473,509. GRAVITY CONVEYER. MAX H. PADE, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed May 18, 1920. Serial No. 382,230. 7 Claims. (Cl. 193—1.)

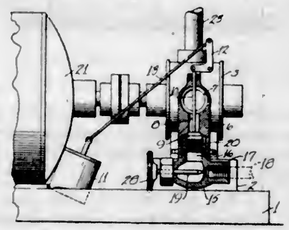


1. In a device of the class described, the combination of a track, guide rails parallel to said track, one of said rails having a break to allow for the insertion of an article, and a latch supported at one side of the track adapted to keep the article on said track.

1,473,510. PROCESS OF PRODUCING CARBIDES OF SODIUM AND BORON. CHARLES E. PARSONS, Englewood, N. J. Filed Apr. 10, 1923. Serial No. 631,214. 4 Claims. (Cl. 23—10.)

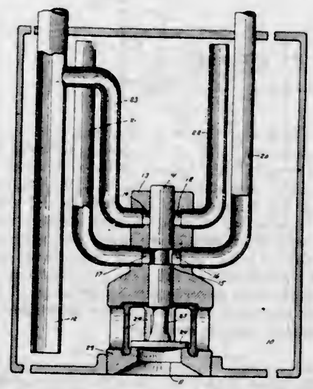
2. The process of simultaneously producing sodium carbide and boron carbide from sodium tetraborate, which consists in melting said borate out of contact with the air; raising the temperature to a point between 1000° C. and the point of dissociation of said borate; adding sufficient carbon to produce the desired sodium and boron carbides; and recovering said carbides.

1,473,511. OIL BURNER. JOHN E. PEARSON, Chicago, Ill. Filed Nov. 18, 1921. Serial No. 516,069. 4 Claims. (Cl. 158—73.)



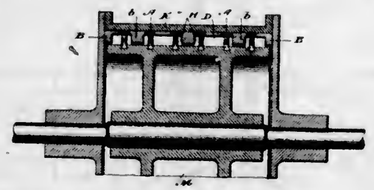
1. A device of the type described comprising a valve connected with a source of fluid supply, a spring normally adapted to seat said valve, a suction fan connected with said valve, a burner connected with said fan, said fan forming a part of the oil passageway between said valve and burner, means for actuating said suction fan, and means cooperating with said fan operating means for automatically opening said valve when said fan operating means is actuated.

1,473,512. AUTOMATIC FLUID-PRESSURE DISPLACEMENT PUMP. CHARLES B. PENDLETON, Denver, Colo. Filed Apr. 12, 1921. Serial No. 460,742. 6 Claims. (Cl. 103—240.)



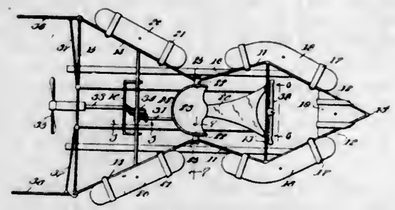
1. In pumps of the character disclosed, embodying a displacement chamber providing a liquid inlet and adapted for submersion in a volume of the liquid to be pumped, the combination of a liquid control valve for said inlet operating to its open position by the exterior liquid pressure thereon and reversely by gravitation upon the liquid filling of said chamber, a liquid discharge conduit leading from said chamber, a valve casing in said chamber and providing complementary ports, an inlet and an outlet conduit section, for an operating pressure fluid, in complementary communication with said ports, the last said conduit section opening to the upper portion of said chamber, and a pressure control valve providing a portway registering with said ports when said liquid control valve is closed, the said pressure control valve being so connected with said liquid control valve that the former is actuated by the latter.

1,473,513. TURBINE. TIMOTHY H. PETTENGILL, Amsterdam, N. Y. Filed Nov. 9, 1918. Serial No. 261,813. 1 Claim. (Cl. 253—53.)



An elastic fluid turbine, comprising a rotary drum, a plurality of spaced vanes carried thereby, a casing surrounding the drum, inlet chambers arranged between the sets of vanes, the chambers between alternate sets of vanes being aligned transversely of the drum and in staggered relation with the other alternate aligned chambers forming a plurality of staggered sets of chambers, nozzles leading from the alternate chambers and overlapping the adjacent alternate chambers on the opposite side of the vanes, said nozzles lying parallel with the rotation of the vanes and open on one side whereby the fluid from one set of alternate aligned chambers is directed laterally through the vanes to the other set of alternate aligned chambers, said nozzles and chambers increasing proportionately in length toward the exhaust end of the turbine.

1,473,514. SWIMMING DEVICE. ARTHOR LEE PINKARD, Youngstown, Ohio. Filed Aug. 9, 1922. Serial No. 580,745. 2 Claims. (Cl. 115—25.)

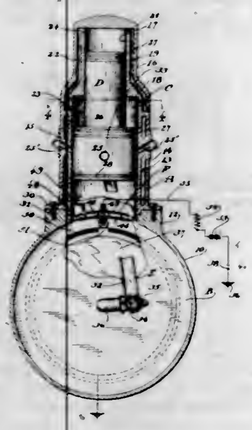


2. A swimming device embodying a float supported frame, a substantially horizontally disposed stomach support, a seat mounted for pivotal movement adjacent one end of the support and capable of adjustment substantially at right angles thereto, a propeller and foot operated means carried by the frame and operatively connected to the propeller, whereby the latter may be rotated.

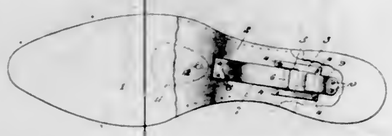
1,473,515. TWO-CYCLE GAS ENGINE. HARRY M. POST and LEO O. POST, Los Angeles, Calif., assignors of one-third to Mack M. Swain, Los Angeles, Calif. Filed June 23, 1921. Serial No. 479,864. 1 Claim. (Cl. 123—71.)

In a two cycle engine, a cylinder having a main firing chamber and a reduced outwardly extending intake chamber, the wall of the intake chamber having a by-pass extending therethrough and forming a communication between the upper end of the intake chamber and the up-

per end of the firing chamber, the wall of the inlet chamber also having an inlet passage, one end of the inlet passage opening through the outer cylindrical wall immediately adjacent the firing chamber and the other end opening into the upper end of the intake chamber, said inlet passage extending longitudinally through the wall of the intake chamber, the main firing chamber having opposed exhaust ports formed therein intermediate its ends, a piston including a main body portion reciprocably mounted in the firing chamber and elongated reduced extensions formed on the main body chamber of the piston reciprocably mounted in the intake chamber, the main body portion of the piston being adapted to open the exhaust ports prior to completion of the exhaust stroke and close the by-pass connecting the intake and firing chamber at the completion of a predetermined length of the inward stroke, and check valves arranged in the by-pass and the inlet passage.



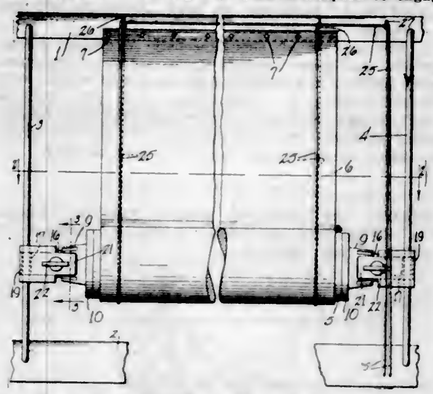
1,473,516. SHANK STIFFENER. ADAM REED, Yakima, Wash. Filed Mar. 22, 1923. Serial No. 626,942. 4 Claims. (Cl. 36—76.)



1. The combination of an inner sole and a shank stiffener comprising an inner sole, a movable member secured to the shank thereof at one end and a plate secured to the shank near the other end of the movable member and having a strap through which the movable member passes, a spring clip adapted to bear on the free end of the movable member without impairing the longitudinal movement thereof.

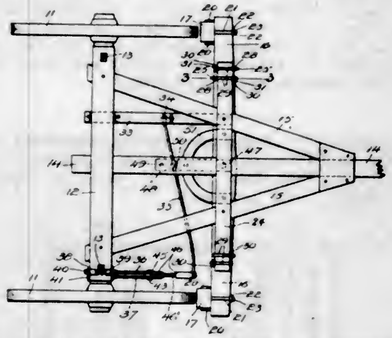
1,473,517. ROLLER-CURTAIN GUIDING AND LOCKING DEVICE. WILBERT M. RICHARDS, Chicago, Ill. Filed Feb. 6, 1922. Serial No. 534,548. 4 Claims. (Cl. 156—27.)

3. A device of the type described comprising a guide member having an opening therein adapted to receive a guide wire and having lugs disposed adjacent to the ends of the opening, a stub shaft carried by said member, a pinion carried by said stub shaft, a clamping member having sides adapted to be moved toward said lugs to engage with the wire and to bind it against said lugs, said clamping member having a projection adapted to engage



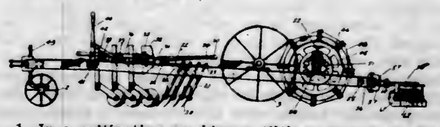
with said pinion to prevent the rotation thereof, and a wing bolt for adjustably securing said clamping member to said guiding member.

1,473,518. WAGON BRAKE. JOSEPH CLAUD ROGERS, Prospect Station, Tenn., assignor of one-sixth to Georgie Sherrill Abernarty and one-sixth to John W. Jones, both of Prospect Station, Tenn. Filed Apr. 20, 1922. Serial No. 555,712. 3 Claims. (Cl. 188—12.)



1. In a device of the class described, the combination with the running gear of a vehicle including the rear axle, rear wheels, rear bolster and rear hounds, a brake beam movably supported relative to said rear hounds, a fulcrum device connected to said hounds and axle, a bar pivoted at one end to said fulcrum device, means for coupling said bar to said brake beam, another bracket device formed of a bar bent into U shape and coupled at the ends respectively to the rear axle and rear bolster, an operating lever pivoted between the sides of said last mentioned bracket device, and a link device coupling the said operating lever to said bar.

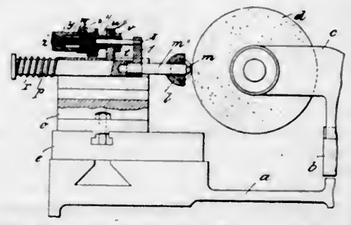
1,473,519. CULTIVATOR. JOHN ROLLI, West Allis, Wis. Filed Mar. 24, 1919. Serial No. 284,532. 3 Claims. (Cl. 97—209.)



1. In a cultivating machine, a tilting support, a set of posts adjustable perpendicularly to the support, rack and

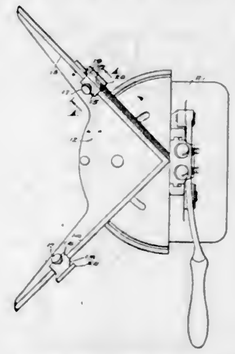
pinion connections for adjusting the posts, arms in swiveled and laterally swinging connection with the lower ends of the posts, and cutting disks journaled on said arms.

1,473,520. GRINDING MACHINE. KARL ROSAK, Berlin, Germany, assignor to Schnellwerkzeug Gesellschaft mit beschränkter Haftung (Briesen), a Corporation of Germany. Filed Aug. 29, 1921. Serial No. 496,585. 3 Claims. (Cl. 51—165.)



1. In a grinding machine, the combination, with a rotary grinding disc, and a holder for a work piece to be machined, one of said elements having a reciprocatory movement relative to the other, of means for effecting a relative feed movement between the work holder and the disc; a truing device for the grinding disc in front of which said disc passes during the normal relative reciprocatory movement betwen the disc and work holder; and a setting device for adjusting the position of the truing device so that the grinding disc automatically comes into contact therewith and is turned down or cut thereby when said disc is fed beyond the desired dimension of the work piece, whereby the grinding disc is prevented from continuing its grinding action on the work piece; said setting device being provided with scales settable to indicate the finished dimension of the work piece corresponding to each particular adjustment of the truing device.

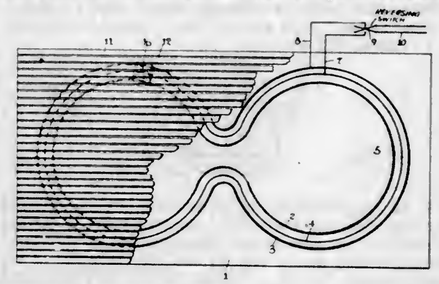
1,473,521. MULTIPLE-MITERING ATTACHMENT. HYMAN B. RUBIN, New York, N. Y. Filed Aug. 10, 1922. Serial No. 580,978. 6 Claims. (Cl. 29—69.)



1. An attachment for mitering machines, comprising a body having parallel faces, said faces being arranged at an angle to the rule engaging the bar of the mitering machine and extending to a point in contact with said bar.

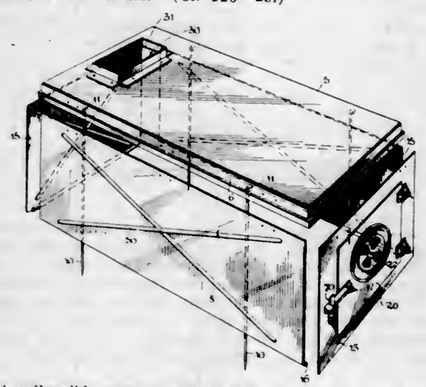
1,473,522. AMUSEMENT APPARATUS. SOLOMON W. SHEPHERD, Orlando, Fla. Filed June 12, 1923. Serial No. 644,943. 8 Claims. (Cl. 104—53.)

1. An amusement apparatus comprising a track, a concealed air current creating and directing element traveling on said track, means to provide for the propelling and operation of said element, and an apertured means



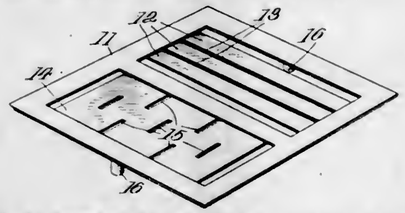
arranged in operative relation with respect to said element to provide for the passage of the current therethrough at various points thereof.

1,473,523. COLLAPSIBLE STOVE. NELSON H. SMITH, Spring Valley, Ill. Filed Jan. 30, 1923. Serial No. 615,869. 1 Claim. (Cl. 126—29.)



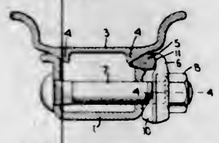
A collapsible stove comprising a top having its side and end portions bent to define integral side and end reinforcing flanges, side and end walls hingedly connected to said flanges and adapted to be swung directly beneath said top, supporting legs pivotally connected to the inner sides of said side flanges adjacent the ends thereof and terminating below said sides, said legs being located inwardly of said sides to limit the inward swinging movement of the same, and a fire door carried by one of said ends.

1,473,524. APPARATUS FOR MAKING IMITATION TILE PANELS. ARTHUR STOCKSTROM, St. Louis, Mo., assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed July 10, 1922. Serial No. 574,013. 4 Claims. (Cl. 101—127.)



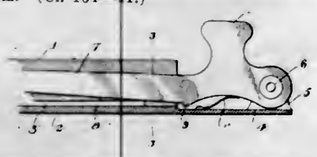
1. An apparatus for producing an imitation tile with unbroken depressed joints, comprising two stencils one having longitudinal slots and the other transverse slots, the stencils to be alternately used as described.

1,473,525. DEMOUNTABLE-RIM CONSTRUCTION. JOSEPH G. SWAIN, Akron, Ohio, assignor to The Firestone Steel Products Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 28, 1921. Serial No. 503,935. 3 Claims. (Cl. 301—22.)



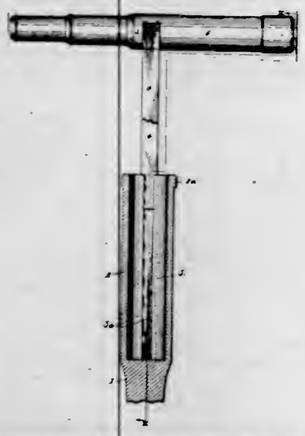
1. In a demountable rim construction, a removable tire carrying rim, and a wheel on which said rim is carried, a clamp at the side of the wheel one end of the clamp being provided with a fulcrum and the other end of the clamp forcing the rim on its seat, a bolt passing through the clamp, a nut on the bolt, bearing against the clamp, the under surface of the nut being rounded and the outer face of the clamp having a radially arranged trough shaped recess, the transverse curvature of which fits the under surface of the nut to provide a line contact between the nut and the clamp.

1,473,526. ENVELOPE OPENER. HAROLD E. SWENSON, Vallejo, Calif. Filed June 27, 1921. Serial No. 480,761. 1 Claim. (Cl. 164—41.)



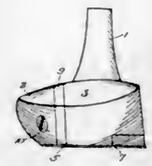
A paper cutter comprising a substantially L-shaped member including a base and a vertically disposed wall rising from the base, said base having a groove at its upper face at the juncture with the side wall and said side wall having a slot adjacent the lower end and opening into the groove, a spring elevated blade pivotally mounted upon the L-shaped member and operating within the groove and an operating handle for the blade.

1,473,527. COMBINED CANE AND TELESCOPE. EDWARD THIMGREN, Popotla, Mexico. Filed Nov. 14, 1922. Serial No. 600,887. 4 Claims. (Cl. 135—47.)



1. In a combined cane and telescope, a cane having a socketed head, side rods longitudinally slidable in opposite side walls of the socketed head, and a telescope pivotally carried by the outer ends of said rods adapted to be housed within the socket of the head and to be projected therefrom and supported by the rods when in use.

1,473,528. GOLF CLUB. MILTON TOOTLE, 3d, St. Joseph, Mo. Filed Nov. 9, 1920. Serial No. 422,808. 8 Claims. (Cl. 46—4.)

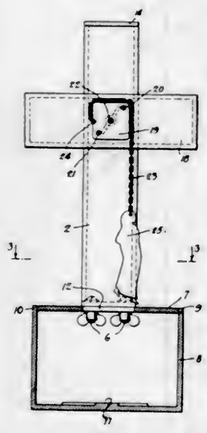


1. In a golf club, a handle, a wooden head on the lower end thereof provided with a driving face, an upwardly extending metallic plate arranged in the head to one side of the median line thereof and further to one side of the lower end of the handle and slightly inclined outwardly with respect to said handle.

1,473,529. RUST-REMOVING COMPOUND. JOHN J. VARN BUHLER, Detroit, Mich. Filed Dec. 28, 1921. Serial No. 525,473. 3 Claims. (Cl. 148—8.)

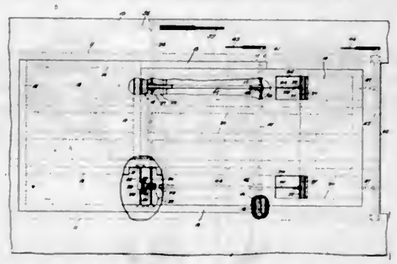
1. The metal cleaning compound containing glycerine, hydrochloric acid, and alcohol.

1,473,530. FOLDING CROSS. HANS T. WALROW, New York, N. Y. Filed Dec. 12, 1922. Serial No. 606,482. 5 Claims. (Cl. 46—40.)



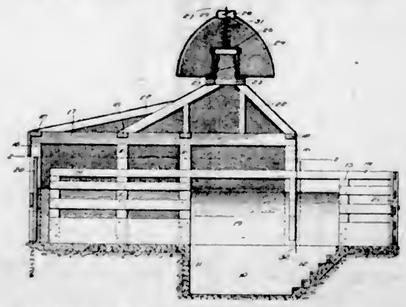
1. A folding cross, comprising a hollow base acting as a container, said base having an opening in the top, a pair of upstanding members connected with said base, a transverse member pivotally connected to said upstanding members and co-acting therewith to produce a cross when arranged in a certain position, and means co-acting with said transverse member for moving an article into said base and out of the same according to the movement of said transverse member.

1,473,531. TRUCK AND WAGON DUMP. WILLIAM H. WENHOLZ, Hutchinson, Kans. Filed July 7, 1921. Serial No. 482,975. 1 Claim. (Cl. 214—49.)



In an apparatus of the class described, an outer platform, an inner platform, a movable stop device carried by said inner platform, means for locking said inner platform to the outer platform and means for simultaneously actuating said stop device and lock device.

1,473,532. ANIMAL DIP AND INSECT TRAP. DANIEL H. WOMACK, Montgomery, Tex. Filed Nov. 10, 1921. Serial No. 514,272. 2 Claims. (Cl. 119—156.)



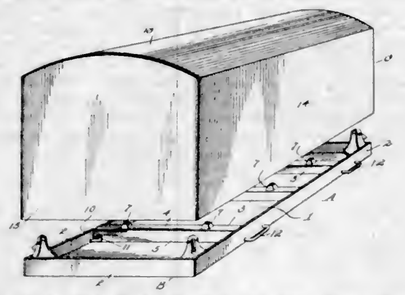
1. An apparatus of the class described comprising a cage device adapted to be disposed over an animal dipping tank, said cage having screen material side walls and top, with the top converging to a contracted opening, a trap device engaging over the opening, and including an integral tubular portion detachably engaging over the said contracted discharge.

1,473,533. WALL SLAB. FRANK ZELKO, Joliet, Ill. Filed Aug. 10, 1922. Serial No. 580,985. 1 Claim. (Cl. 72—20.)



A sheathing slab having a body portion of cement, and strips carried by the body portion and disposed in downwardly divergent relation, said strips being embedded in the body portion and terminally projecting beyond the upper and lower edges to provide, respectively, attaching and anchoring means of which the former have their rear faces flush with the rear face of the slab and the latter have their front faces flush with the rear face of the slab.

1,473,534. METALLIC GRAVE VAULT. CARL A. ALBRECHT, Columbus, Ohio. Filed Dec. 13, 1921. Serial No. 522,075. 5 Claims. (Cl. 27—35.)



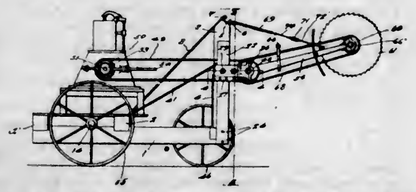
1. In a metallic grave vault, a base comprising a substantially pan shaped body including a bottom having upstanding marginal side walls and an open top, and a plurality of casket rests disposed within and secured to said body, said rests being situated to extend entirely across said bottom with the upper surfaces thereof substantially in registration with the upper edges of said side walls.

1,473,535. INSECT EXTERMINATOR. HUGH ALEXANDER, Cleveland, Ohio. Filed Feb. 13, 1922. Serial No. 536,192. 3 Claims. (Cl. 43—112.)



1. In an insect exterminator, an electric stunning device, a liquid containing receptacle arranged beneath the same, and a foraminous scoop contained within said receptacle.

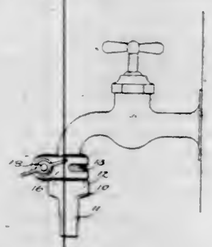
1,473,536. SAW RIG. EMMETT C. AVERY, Hutchinson, Kans. Filed July 2, 1921. Serial No. 482,101. 3 Claims. (Cl. 143—43.)



1. In a saw rig, a body comprising a frame, a post at the forward end on one of the sides of the frame, an arched track disposed opposite the post and sup-

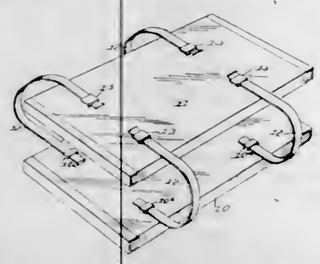
ported from the post and from the frame, a bracket on the front of the post, a bracket on the front side of the frame opposite the post, a support having one end guided on the track and movable thereon to horizontal or to vertical position and having its second end received in one of the brackets when in its mentioned position, means locking said ends in said brackets, means locking the opposite ends of the support when in either of its mentioned positions, a shaft journaled in bearings on the support, means for imparting motion thereto, and a circular saw arranged forward of the support and receiving motion from the shaft.

1,473,537. COUPLING. HUBERT BAILEY, New York, N. Y. Filed Oct. 4, 1922. Serial No. 592,361. 4 Claims. (Cl. 285—163.)



3. A coupling comprising a reducing member having a hose receiving nipple formed on its lower end, a resilient sleeve mounted in said reducing member, means carried by the reducing member for engaging the sleeve to retain it in position, a clamping band mounted on said resilient sleeve, a curved plate mounted on the clamping band and overlapping its ends, said plate being movable relative to one end of the clamping band, means for operating the clamping band, and means carried by the reducing member for retaining the clamping band in position on the resilient sleeve.

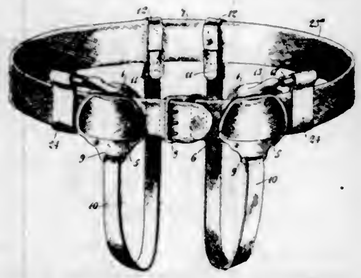
1,473,538. FLYTRAP. REIER A. BAKKE, Redtop, Minn. Filed June 14, 1922. Serial No. 568,181. 1 Claim. (Cl. 43—110.)



As an article of manufacture a fly trap consisting of a base carrying laterally looped springs, and a follower plate having keepers for receiving the free ends of said springs and being thereby normally and yieldingly supported in spaced relation with the base to permit of the access of flies to the opposed baited surfaces of said members.

1,473,539. SURGICAL TRUSS AND THE LIKE. THOMAS BEASLEY, Merton, England. Filed Mar. 5, 1923. Serial No. 622,595. 5 Claims. (Cl. 128—118.)

4. In a surgical truss or the like, a backing plate formed with belt receiving edge slots, an inflatable pad removably secured to said backing plate, a flexible tube carried by and communicating with said pad, a valved nipple projecting from said tube and adapted to re-



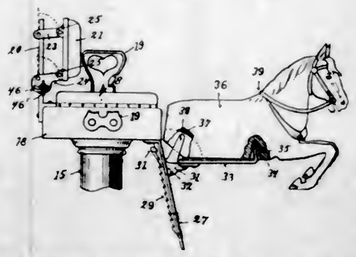
ceive inflating means, and a pocket to receive and support said nipple, said pocket being adapted for connection with the belt.

1,473,540. CLOSURE FOR BOTTLES. CHARLES L. BERNARDO, New York, N. Y. Filed Oct. 11, 1922. Serial No. 593,887. 1 Claim. (Cl. 215—44.)



As a new article of manufacture, a bottle closure of cylindrical formation having a closed end engageable with a stopper mounted in the open threaded end of a container to retain said stopper in position, said closure being of substantially the same diameter as said container and having its wall instruck to provide spaced locking projections, said closure and container forming a cylindrical surface of uniform external diameter free of external projections, said locking projections engaging adjacent threads formed at the open end of said container to maintain the closure in closing position.

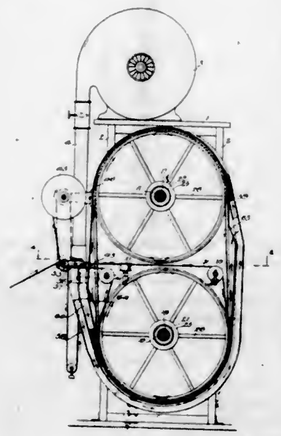
1,473,541. BARBER CHAIR. EUGENE BERNINGHAUS, Cincinnati, Ohio, assignor to The Eugene Berninghaus Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 22, 1920. Serial No. 425,726. 4 Claims. (Cl. 155—25.)



1. A barber chair comprising a seat, arms at the sides of said seat, a back at the rear of said seat, a bracket depending from the front of said seat, an image

supporting member detachably mounted upon said bracket, and an image to occupy the attention of a child mounted upon said supporting member.

1,473,542. FILM-DRYING APPARATUS. GASTON L. CHANIER, Short Hills, and ALBERT L. ADATTE, Plainfield, N. J., assignors to Pathe Exchange, Inc., New York, N. Y., a Corporation of New York. Filed June 28, 1922. Serial No. 571,354. 16 Claims. (Cl. 34—48.)



1. A device for drying film material, which includes a pair of drums having peripheral channels or passages thereon to receive a film and associated adjacent each other, the axes of the drums being inclined at an angle with respect to each other to permit a film to pass from a channel on one drum to a succeeding channel on another drum whereby a continuous strip of film may be passed around the drums without binding.

1,473,543. CATALYST AND METHOD OF MAKING THE SAME. JOHN COLLINS CLANCY, Providence, R. I., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 30, 1921. Serial No. 465,756. 20 Claims. (Cl. 23—28.)

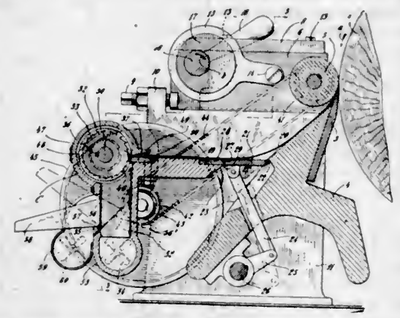
1. A catalyst for ammonia synthesis which comprises a catalytically active carbo-nitrogenous compound formed by treating an organic salt of an alkalinous metal with ammonia gas at an elevated temperature.

1,473,544. AMMONIA SYNTHESIS CATALYST AND METHOD OF MAKING THE SAME. JOHN C. CLANCY, Providence, R. I., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed May 17, 1921. Serial No. 470,309. 19 Claims. (Cl. 23—28.)

4. The process of forming an ammonia synthesis catalyst which comprises, the heating of an oxygen bearing salt of a metal of the magnesium sub-group of alkali earth metals in the presence of ammonia gas.

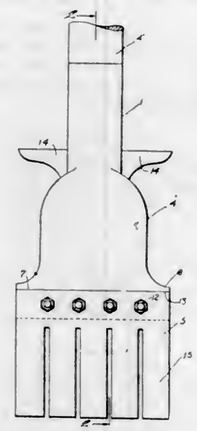
1,473,545. SPLINT MACHINE. WILLIAM H. COLLIER, Painesville, Ohio. Filed Oct. 24, 1921. Serial No. 510,079. 31 Claims. (Cl. 144—209.)

1. In an automatic splint machine, means for cutting veneer from a rotating log, a table over which the veneer travels forwardly, a plurality of rotating saws mounted along the front edge of said table to cut the veneer



lengthwise into strips of predetermined width, and rotary knives for cutting the strips transversely into splints.

1,473,546. WEIGHTED SCRAPER. WILLIAM EIERMANN, Brooklyn, N. Y. Filed Apr. 22, 1919. Serial No. 291,994. 3 Claims. (Cl. 145—47.)

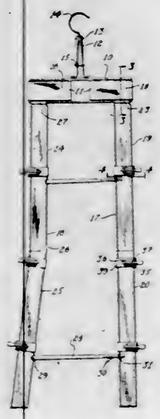


1. The herein described scraper comprising a heavy body portion having formed at its lower edge an extended flange in alignment with the axis of the body, means to attach a handle in alignment with the same axis, the body being formed opposite the upper portion of the flange with a shoulder arranged transverse to the axis, said flange being formed with a plurality of holes, a flat blade having parallel upper and lower edges, the upper edge portion being fitted against said flange and abutting squarely against said shoulder, said blade being provided with a plurality of vertical slots with which said flange holes are adapted to align, and fastening means for the blade passing through the slots and holes.

1,473,547. TROUSERS PRESSER AND HANGER. JOHN J. GETGEY, Tulsa, Okla. Filed Oct. 17, 1921. Serial No. 508,175. 4 Claims. (Cl. 223—19.)

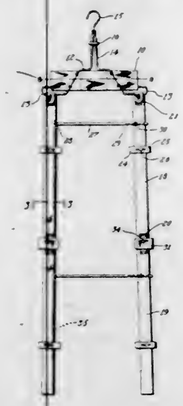
1. In a device of the character described, clamping members adapted to be engaged upon the superposed cuffs of a pair of trousers, two pairs of elongated members carried by said clamping members and engageable respectively with the front and back edges of the trousers, and clamping members for holding each pair of elongated

members upon the trousers, each consisting of a U-shaped member having one arm disposed against one side of the superposed elongated members and having its other arm spaced from and parallel with the other side of said superposed elongated members, a plate dis-



posed against said second named side and formed with a slot through which passes the bight portion of the U-shaped member, and a locking lever pivoted upon the free end of said last named arm and having a cam head engageable with the plate.

1,473,548. GARMENT HANGER AND PRESSER. JOHN J. GETGEY, Tulsa, Okla. Filed Nov. 21, 1921. Serial No. 516,802. 3 Claims. (Cl. 100—57.)



1. A device of the character described comprising a clamping member adapted to be clampingly engaged upon the cuff ends of trousers, said clamping member including supporting loops, a pair of presser members detachably and pivotally connected with each of said loops, each of said presser members being wedge shaped in cross-section and being formed of jointed sections, means for holding said presser members in spaced relation, clamping means holding the associated sections of the presser members in clamping engagement with trousers at the forward and rear edges of the latter, and means embracingly engaged upon the members at the joints for preventing swinging movement at said joints.

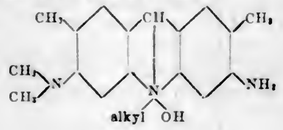
1,473,549. COLLAR-STUD SUPPORT. ABRAHAM GOLDKNOPF, New York, N. Y. Filed Nov. 1, 1922. Serial No. 598,365. 4 Claims. (Cl. 2—91.)



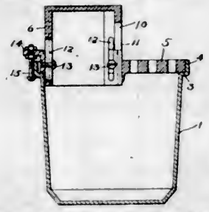
2. A device of the character described for carrying collar button studs, comprising a curved plate for seating on the sternum, said plate having a collar button stud mounted on its upper end, and an adjustable strap for attaching to the clothing to exert a pull on the plate so as to retain the upper end projected forward.

1,473,550. 2.7-DIALKYL-3-DIALKYLAMINO-6-AMINO-10-ALKYLACRIDINIUM SALTS. HEINRICH GRÜNHAGEN, Berlin-Karlshorst, Germany, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Filed Mar. 10, 1922. Serial No. 542,751. 3 Claims. (Cl. 260—36.)

1. As new products of manufacture the hereindescribed new derivatives of the acridine series being in the dry pulverized shape of their halogen salts reddish brown powders, easily soluble in water, soluble in alcohol, the diluted aqueous solution showing a greenish fluorescence, dissolving in concentrated sulfuric acid with a yellow color, the concentrated aqueous solution separating by addition of sodium hydroxide a yellowish precipitate which is soluble in water and which becomes partly insoluble by heating for some time, being destroyed by heating with chlorinated lime, dyeing on leather clear yellow tints and corresponding in the free state of bases to the general formula:



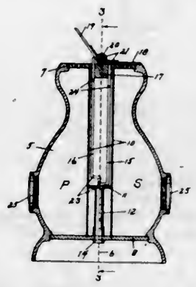
1,473,551. DIRECT-SEWER INLET. LEON GSCHWIND, Youngstown, Ohio. Filed Aug. 10, 1922. Serial No. 580,988. 4 Claims. (Cl. 182—6.)



1. In a sewer inlet, a bowl portion having a shoulder adjacent the upper edge thereof, a head adapted to fit

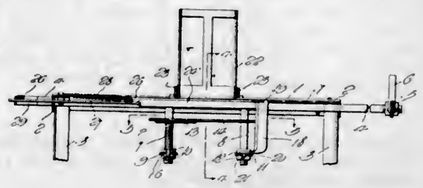
over a portion of said bowl, clips attached to said head, means for adjusting the clips on the head for regulating the height of the head, and means carried by said clips adapted to interlock with said shoulder at whatever position the head may face on said bowl, substantially as set forth.

1,473,552. CONDIMENT CONTAINER. EMERIK GUBICH, Minneapolis, Minn. Filed Feb. 26, 1923. Serial No. 621,191. 2 Claims. (Cl. 65—45.)



1. In a condiment container having two chambers separated by a hollow partition, a pair of semi-circular lids closing the respective upper ends of said chambers, and hingedly mounted to swing from the same axis, spring means for normally closing the lids, and means for selectively opening the lids consisting of a pair of rods slidably mounted in said hollow partition and actuable from the bottom of the container, the upper ends of said rods extending through the top of the container for engagement against the respective lids.

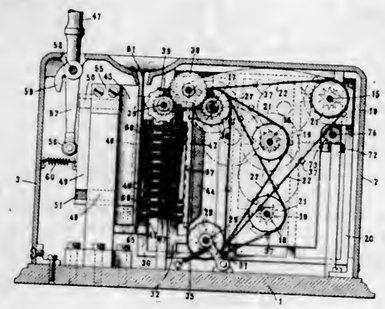
1,473,553. MACHINE FOR CUTTING BRICK ICE CREAM. THOMAS T. HARRIS, Roanoke, Va. Filed May 18, 1922. Serial No. 561,986. 6 Claims. (Cl. 107—21.)



1. An ice cream cutting machine comprising a body structure, a carriage movable longitudinally of the body structure and including side bars slidably carried by the body structure, a horizontally disposed slicing knife carried by and extending between the side bars, depending arms carried by the side bars, cross strips carried by the arms, a vertically disposed slicing knife having its upper end connected with the horizontally disposed slicing knife and having its lower end portion connected with the strip carried by one set of depending arms, a support having a threaded stem passing through the other cross strip and having securing nuts above and below said cross strip for permitting vertical adjustment of the support, a table forming plate carried by said support for supporting a block of ice cream to be sliced, an open-ended carrier for a block of ice cream being carried by said body structure, said table plate being positioned beneath the vertically disposed cream holding frame when the horizontal cutting blade is in front of the same, ice cream gripping strips extending longitudinally of the body structure, links pivotally mounted between the gripping strips and extending transversely thereof and having their end portions pivotally connected with the gripping strips, resilient means engaging one of said links to normally hold the links turned diagonally of the body portion with the gripping strips moved towards each other, one of said strips having its free end portion provided with a side arm for engagement by one of the side bars of said carriage when the carriage is moved longitudinally, the other side bar of said carriage having means at its free end for engaging the second gripping strip and moving the gripping strip to an inoperative position when the carriage is in initial position.

3. An ice cream slicing machine comprising a body, a carriage slidably carried by said body, a cutting knife carried by said carriage, a cream support carried by said carriage, cream gripping means carried by said body and movable into and out of an operative position and yieldingly held in an operative position, said gripping means being engageable by said carriage for permitting said gripping means to be moved to an inoperative position by said carriage.

1,473,554. RECORDING APPARATUS. PERCY L. HILL, New York, N. Y.; James W. Anderson administrator of said Hill, deceased. Filed Oct. 15, 1910, Serial No. 430,998. Renewed Dec. 15, 1920. 29 Claims. (Cl. 234—43.)



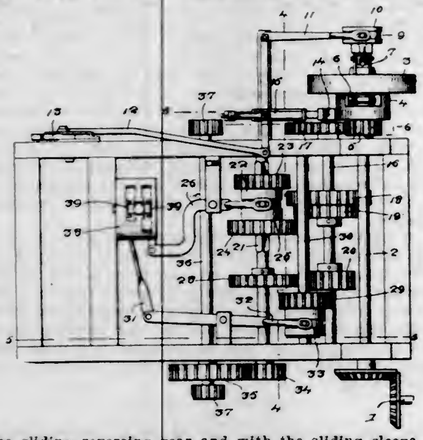
1. In a device of the kind described, time controlled means for producing a record upon a card, and selectively controlled means whose operation is determined by the perforation characteristics of a master card for producing another record upon the card and mechanical connections whereby the operation of one of said means is dependent upon that of the other.

27. In a device of the kind described, clock work having shafts, secondary shafts clutch connected to shafts of the clock work, justifying wheels upon said secondary shafts and a movable frame engaging said justifying wheels, printing wheels having operative relation to the several secondary shafts, punches coordinated with said printing wheels, dies for said punches, means for moving said movable frame and then moving said dies, selectively controlled printing instrumentalities and selectively controlled perforating means operated by said last named means.

1,473,555. TRANSMISSION. GILBERT O. HOLSTAD, Ridgeway, Iowa. Filed June 6, 1921. Serial No. 475,316. 2 Claims. (Cl. 74—58.)

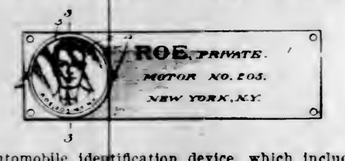
1. A transmission of the class described comprising a clutch shaft, a second shaft, clutch means for connecting the two shafts together, high and low speed gears on said second shaft, a reversing gear on said second shaft, a sliding gear shaft, a sleeve slidably but non-rotatably mounted on the said shaft, high and low speed gears carried by the sleeve, a reversing gear carried by the sliding

gear shaft, a slidably and rotatably mounted reversing gear, a gear shift lever, means connecting the same with



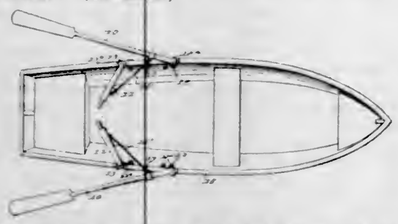
the sliding reversing gear and with the sliding sleeve, a driven shaft and means for connecting the same with the sliding gear shaft.

1,473,556. AUTOMOBILE IDENTIFICATION DEVICE. MICHELE IAFRATE, New York, N. Y. Filed Nov. 24, 1922. Serial No. 603,048. 1 Claim. (Cl. 40—2.)



An automobile identification device, which includes a plate disposed flat against the surface of a car, a portion of said plate containing information as to the identity of the driver, a photograph frame detachably secured on the face of another portion of said plate, and a photograph of the driver within said frame.

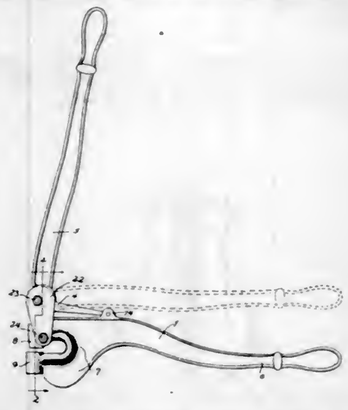
1,473,557. BOW-FACING OAR. JOHN L. INGERSOLL, Evart, Mich. Filed Feb. 1, 1923. Serial No. 616,306. 5 Claims. (Cl. 9—25.)



1. A bow facing rowing apparatus having universally mounted blade and grip shanks connected by a link having a guide in which it is universally fulcrumed.

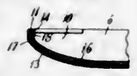
1,473,558. PUNCH. JOHN JENSEN, Rockford, Ill., assignor to Whitney Metal Tool Company, Rockford, Ill., a Corporation of Illinois. Filed Nov. 9, 1922. Serial No. 599,770. 4 Claims. (Cl. 164—96.)

1. A punch having, in combination, a stationary arm having a forked head, a punch slidable in said head, an engaging member pivoted to said arm and having operable connection with said punch, said member having a bore in one end, a cylindrical member extending through said bore, roller bearings between said bore and said cylindrical member, plates eccentrically connected at one



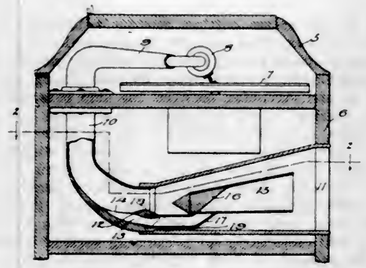
end to said last mentioned member whereby the roller bearings are retained in place and connected at the other end to said head, and means for turning said cylindrical member within said bore.

1,473,559. EYEGLASS RECEPTACLE. CARL R. JERRY, Somerville, Mass. Filed Nov. 11, 1922. Serial No. 600,271. 2 Claims. (Cl. 206—5.)



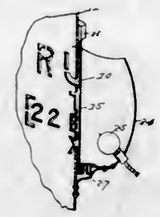
1. An eye glass receptacle comprising, in combination, a body member, a cover member, one of said members being provided with a flange at the edge thereof, a covering for the outer surface of said members, said covering extending over the flange of said flanged member and terminating upon the inner side of said member and a lining for said members, the edge of said lining within said flanged member abutting against the portion of the covering located upon the inner face of said flange.

1,473,560. SOUND CLARIFIER. CORREL W. JOHNSON, New York, N. Y. Filed June 15, 1922. Serial No. 568,587. 5 Claims. (Cl. 181—27.)



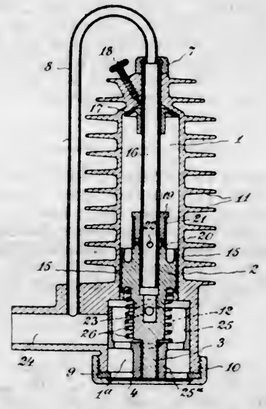
1. A sound clarifier including a body having a bore, a thickened wall forming a part of said body and being provided with a passage, and a tube connected to said passage adjacent its outer end.

1,473,561. AUTOMOBILE IDENTIFYING MEANS. BRANHAM W. JONES, San Antonio, Tex. filed July 6, 1922. Serial No. 573,216. 1 Claim. (Cl. 40—2.2.)



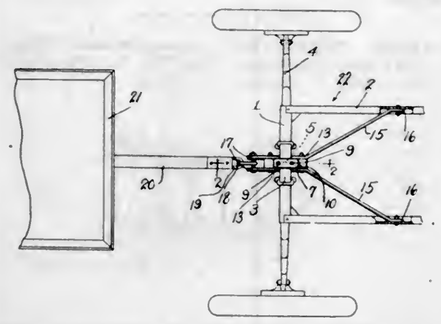
An identifying means for vehicle bodies consisting of a punctured plate constituting a portion of the wall of the vehicle body with the punctures arranged to represent vehicle identifying indicia, in conjunction with a bracket secured to the rear face of the vehicle wall below said indicia, said bracket having a channel, a lens disposed in rear of said indicia and having its lower edge resting in said channel, a casing having an inner wall consttuting a reflector, said casing being open at one side and bearing on the lens at the open side, a bracket disposed above the indicia and secured to the inner face of the vehicle wall, and spring-actuated clip levers secured to the casing above and below the same and having inturned terminals engaging channels formed in said brackets, said casing being provided with an illuminating medium.

1,473,562. APPARATUS FOR PREVENTING THE BURSTING BY FREEZING OF WATER-CIRCULATION SYSTEMS FOR COMBUSTION ENGINES IN MOTOR CARS AND THE LIKE. GUSTAF EMIL JONSSON, Halmstad, Sweden. Filed July 24, 1922. Serial No. 577,171. 11 Claims. (Cl. 137—34.2.)



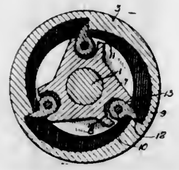
1. An apparatus for preventing the bursting by freezing of water circulation systems for combustion engines comprising a container and means moveable therein, means for connecting said container with the circulation system to be protected, so that it will be filled therefrom, a fragile means such as a glass disc closing one end of the container and means interposed between the moveable means within the container and the fragile closing means of the same intended for breaking the said closing means when the moveable means is acted upon and moved in one direction by the pressure arising within the container on one side of the moveable means upon the formation of ice within the same.

1,473,563. HITCH. OSCAR M. JULSON, Groton, S. Dak. Filed June 23, 1922. Serial No. 570,309. 1 Claim. (Cl. 280—33.44.)



The combination with an automobile frame and the rear spring thereof which has its centrally arched portion bolted in the channeled rear cross member of the frame, of a hitch, including plates one arranged over the cross member of the frame and having an opening to receive the bolt of the spring securing element, the other comprising a hollow casting having an opening therein to receive the nut which engages the securing bolt, bolts passing through the frame and casting in contactiug engagement with the sides of the cross member of the frame and the sides of the springs, nuts screwed on said bolts and in contact with the under face of the hollow casting, arms having straight parallel outer portions in contacting engagement with the sides of the casting and bolted thereto, said arms having their inner ends extended outwardly in contacting relation with and secured to the side members of the frame, and a clevis comprising swivelly connected members whose inner member is received between the arms and is pivotally secured thereto.

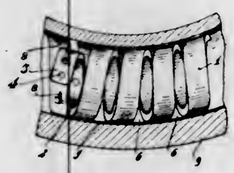
1,473,564. CLUTCH. JOSEPH KLEPPER and CHARLES KLEPPER, Brooklyn, N. Y. Filed May 20, 1921. Serial No. 471,066. 1 Claim. (Cl. 192—41.)



In a clutch, the combination with a driving shaft, of a driven member and a driving member, the driven member comprising a gear body loosely mounted on the shaft and recessed at one end to form a housing, the inner periphery of said housing having three symmetrically disposed inclined wall sections terminating at one end in flat radial shoulders, the driving member comprising a spider rigidly mounted on said shaft, said spider including a hub and three radial symmetrically disposed spokes each having an outwardly opening radial socket one wall of which is shorter than the opposite wall and presenting a shoulder at its outer end, a tapering radial pawl pivoted in each of said sockets, said pawls having one face flat to engage the radial shoulders of the housing to turn the same when the spider is turned in one direction, the opposite faces of said pawls being curved and adapted to engage upon the inclined wall sections of the housing to swing them against the shorter wall of the radial sockets

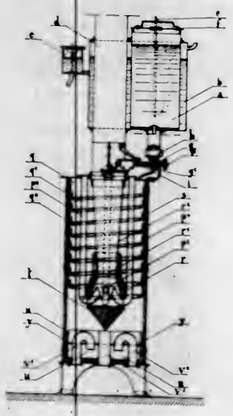
when turned in the opposite direction to permit them to pass adjacent shoulders and drop by gravity in front of the respective radial shoulders of the housing wall section.

1,473,565. WHEEL TIRE. KLAAS FREDERIK KONING, The Hague, Netherlands. Filed Mar. 21, 1923. Serial No. 626,633. 2 Claims. (Cl. 152—8.)



1. A wheel tire without air tube comprising a rubber outer tire surrounding a helically wound metal spring, a closing spring between the outer tire and the helical spring and helically wound in the same sense and provided at certain distances apart with portions inwardly projecting between the windings of the inner spring.

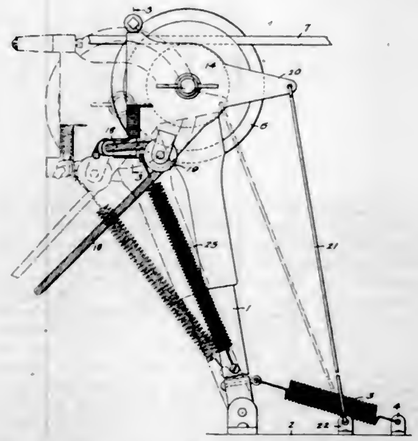
1,473,566. PROCESS AND APPARATUS FOR BURNING HEAVY HYDROCARBONS. PAUL LEON GEORGES KREUTZBERGER and PIERRE GERMAIN, Bellevue-Meudon, France. Filed Jan. 26, 1922. Serial No. 531,933. 9 Claims. (Cl. 158—91.)



1. An apparatus for burning heavy hydro-carbons, comprising means for preliminarily heating said hydro-carbon, means for feeding air thereto to effect partial combustion, a central twyer, means for feeding the products of said partial combustion to said twyer, and means for feeding additional air to said twyer to effect complete combustion.

1,473,567. TROLLEY LOCK. WILLIAM M. LAUER, Glens Falls, N. Y. Filed May 15, 1923. Serial No. 639,167. 3 Claims. (Cl. 191—73.)

1. In combination with a trolley wheel mounted on a trolley pole, said wheel adapted to receive a trolley wire in its groove, of a frame member loosely mounted on the pole adjacent the wheel, a shaft on said frame member, a lock member connected to said shaft and extending normally across the groove to hold the trolley wire in the groove, a spring connected to said pole at one end and to the frame at the other, and a link connecting another portion of said frame to a fixed point such as the roof of

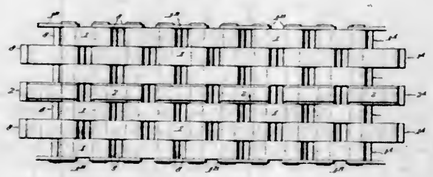


a trolley car, said link and spring being designed to maintain the frame in the same relative position with respect to the wheel regardless of the position of the trolley pole.

1,473,568. PROCESS OF CONVERTING SILVER PRINTS INTO COLOR PRINTS. WALTER LENGER, Dessau, Germany, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Filed Jan. 3, 1922. Serial No. 526,815. 2 Claims. (Cl. 95—88.)

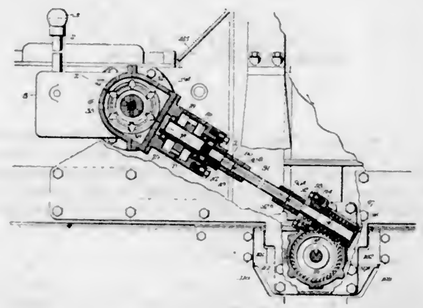
1. In the process for converting silver prints into color pictures the herein-described improvement, which consists in dyeing with basic dyes silver prints having undergone a treatment with a neutral solution of a quinone in the presence of a halogenide.

1,473,569. GROUND-TREADING ENDLESS TRACTION TRACK AND ITS SUPPORTING TRUCK. JOHN GEORGE LEYNER, Littleton, Colo.; Lina M. Leyner, executrix of said John George Leyner, deceased, assignor to The Leyner Tractor and Manufacturing Company, Denver, Colo., a Corporation of Colorado. Filed Apr. 17, 1920, Serial No. 374,723. Renewed June 21, 1923. 5 Claims. (Cl. 305—10.)



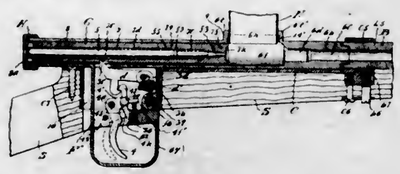
1. The combination with a tractor frame and sprocket wheels thereon, of a track composed of pivotally interconnected links, the links having an outer surface which is longer than the inner surface and curved end surfaces between the said surfaces providing spaces for engagement with the sprocket teeth.

1,473,570. STEERING MECHANISM FOR THE TRUCKS OF TRACTORS AND TRACTION ENGINES. JOHN GEORGE LEYNER, deceased, late of Littleton, Colo.; by Lina M. Leyner administratrix, Littleton, Colo. Filed June 10, 1921, Serial No. 476,549. Renewed June 25, 1923. 15 Claims. (Cl. 180—9.1.)



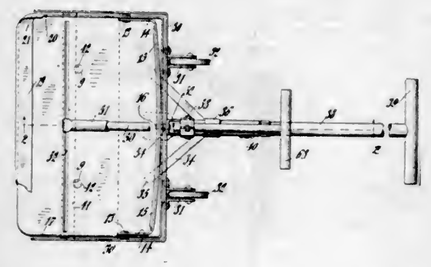
1. In a steering mechanism for the ground treading trucks of tractors, comprising the combination of a shaft driven by the motor of the tractor, and having a cooperating and oppositely arranged set of frictional driving surfaces slidably and reciprocally mounted on said shaft, independent of its rotative movement, and rotatively driven by said shaft, with means comprising a cooperating set of frictional surfaces loosely mounted on said shaft in such cooperative engaging relation as to be engaged by said rotating frictional surfaces, means for connecting said frictional surfaces that are mounted on said shaft with the inner ends of said trucks, in such operative relations as to move said ends simultaneously to either the right hand or the left hand side of said tractor, and means controlled by the operator of said tractor and connected to said rotating shaft's frictional members, for reciprocating said members on said shaft to engage said loosely mounted frictional surfaces with a frictional gripping pressure that is adapted to move the said trucks to steer said tractor as desired by the operator.

1,473,571. FIREARM. JOHN D. PEDERSEN, Jackson, Wyo. Filed July 20, 1917. Serial No. 181,764. 7 Claims. (Cl. 42—16.)



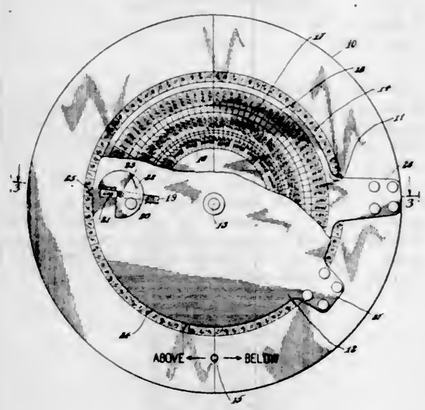
1. In a firearm, in combination with a frame, and with a bolt-mechanism comprising a bolt member movable rearwardly by explosion of the cartridge of the firearm and movable forwardly by spring means to a retracted position and provided with a sear-engaging face, a sear member movable rearwardly and upwardly and forwardly and downwardly and provided with a point for engaging said face to retain the bolt-member in said retracted position, a spring supported and carried by the sear member and arranged for moving the same rearwardly and upwardly to engage the point thereof with said engaging face of the bolt member, and trigger means having a forwardly yielding hook engageable with the sear member for moving the same downwardly and disengageable therefrom to permit rearward and upward movement thereof.

1,473,572. STREET-CLEANING CART. MICHAEL J. FITZGERALD, New York, N. Y. Filed Sept. 20, 1922. Serial No. 589,288. 4 Claims. (Cl. 37—30.)



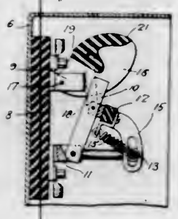
1. In a street cleaning cart, the combination of a wheel supported frame, a U-shaped bracket pivotally connected with said frame and rotatable on a horizontal axis, a second U-shaped frame pivotally mounted on the first-named frame, and rotatable on a horizontal axis, a yoke pivotally mounted to the second U-shaped frame and rotatable on a vertical axis, a removable tray mounted upon said frame, and a scraping device loosely mounted upon said tray and provided with a handle engaging said yoke and controlling the movements of said yoke and U-shaped frames.

1,473,573. CALCULATING DEVICE. HUGH FOLEY, Sourlake, Tex. Filed Sept. 30, 1921. Serial No. 504,389. 1 Claim. (Cl. 235—88.)



In a device of the character described, a dial having a circular scale, a pair of discs rotatably and concentrically mounted on said dial, said discs being of substantially the same diameter and of less diameter than said dial and one of said discs being arranged to substantially cover the other, a plurality of scales arranged in concentric circular formation on the covered disc, a plurality of openings on the covering disc arranged at distances from the center thereof to correspond to the positions of the several scales on the covered disc, a member rotatably mounted on the covering disc and adapted upon rotation to expose severally the openings in said covering disc and pointers upon said covered and covering discs adapted to play upon the scale of said dial.

1,473,574. INCLOSED SWITCH. BENJAMIN E. GETCHELL, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation of Connecticut. Filed Jan. 30, 1922. Serial No. 532,608. 13 Claims. (Cl. 200—151.)



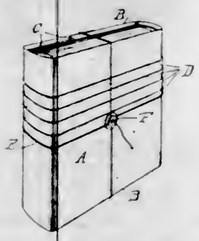
1. In a switch, a casing, a stationary contact mounted therein close to a wall thereof, a switch blade pivoted to coact with said contact and an insulating housing pivotally embracing the stationary contact operably connected to the switch blade and movable to a position between said stationary contact and said wall of said casing.

1,473,575. FUSE-MOUNTING BLOCK. CLARENCE F. GILCHRIST, Toledo, Ohio. Filed June 21, 1919. Serial No. 305,900. 10 Claims. (Cl. 200—133.)



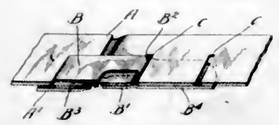
1. A fuse mounting block including a metal base, a pair of fuse holding clips, means for securing said pair of clips to said base, and a single member for positioning both of said means out of direct contact with said base.

1,473,576. MAILING WRAPPER. HERMAN L. GREVE, New York, N. Y., assignor to International Mailing Tube and Wrapper Company, Brooklyn, N. Y., a Corporation. Filed July 9, 1919. Serial No. 309,741. 5 Claims. (Cl. 229—62.)



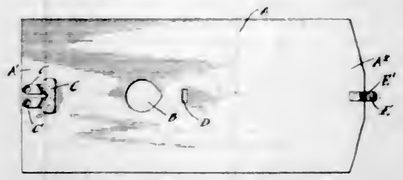
1. A mailing wrapper comprising a body portion of flexible material having oppositely disposed side edges reinforced by a stiff yielding material, said yielding material being disposed in the plane of the back of an enclosed book and adapted to hold its form after being bent into shape as and for the purpose set forth.

1,473,577. MAILING WRAPPER. HERMAN L. GREVE, New York, N. Y., assignor to International Mailing Tube and Wrapper Company, Brooklyn, N. Y., a Corporation. Filed Oct. 2, 1920. Serial No. 414,221. 4 Claims. (Cl. 24—17.)



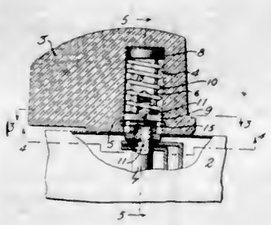
2. A wrapper comprising a sheet having a slot therein and a coupling formed of a strip of metal having a hook offset from the plane surface of the strip located between its ends and adapted to pass through the slot formed in said sheet, one of the end portions of said strip being offset to provide an abutment on the strip.

1,473,578. CORDAGE WRAPPER. HERMAN L. GREVE, Brooklyn, N. Y., assignor to International Mailing Tube and Wrapper Company, Brooklyn, N. Y., a Corporation. Filed Jan. 25, 1921. Serial No. 439,741. 5 Claims. (Cl. 206—64).



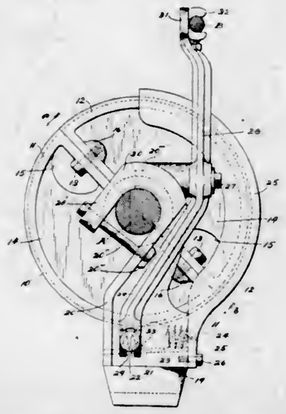
1. A wrapper comprising a sheet of flexible material having two independent fastening and unfastening means located one at each end thereof, said sheet having openings to receive said fastening means located in alignment therewith.

1,473,579. ELECTRIC SWITCH. HAROLD ARCHER HART, West Hartford, Conn., assignor to The Hart Manufacturing Company, Hartford, Conn., a Corporation of New Jersey. Filed Nov. 5, 1921. Serial No. 512,972. 3 Claims. (Cl. 151—2.)



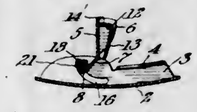
1. In a switch, the combination of a spindle having a threaded end with longitudinally extending shoulders thereon, a headed plunger screwed upon said end and formed so as to expose said shoulders, a perforated member on said plunger having its opening formed so as to normally engage said shoulders and be held from movement around said plunger, a spring between said member and the head of said plunger, said member being adapted to be moved along said plunger against the action of said spring so as to be disengaged from said shoulders.

1,473,580. STOP MECHANISM FOR KNITTING MACHINES. ADOLF K. HAUPTMANN, Philadelphia, Pa.: Maria Hauptmann administratrix of said Adolf K. Hauptmann, deceased. Filed Nov. 3, 1922. Serial No. 598,833. 9 Claims. (Cl. 188—81.)



1. Stop apparatus for straight-bar knitting machines comprising in combination, a starting shaft, a wheel fixed thereon having a grooved periphery, a fixed base having an inclined, transversely disposed groove therein arranged beneath and in alignment with the wheel groove, a wheel guard carried by said base, a shiftable bolt carried by said base in parallelism with said shaft, a ball arranged between the said grooves and a spring carried by said guard for normally pressing said ball against said bolt to arrest retrograde movement of said wheel.

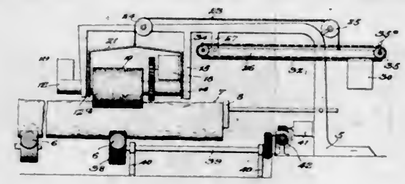
1,473,581. LEVER BELT BUCKLE. ALLEN H. KERNGOOD, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed June 20, 1922. Serial No. 569,679. 9 Claims. (Cl. 24—191.)



5. A lever belt buckle, having a frame including a face plate, a lever clamping member pivotally mounted in said frame and having a depending lip arranged in advance of its pivotal axis, said lever clamping member adapted to engage one end of a belt, and a substantially cylindrical floating member, said frame having side flanges provided with arcuate guideways arranged in front of the pivotal axis of the lever clamping member and engaged by said depending lip and movable with the lever clamping member beyond a pivotal plane of said lever clamping member normal to the face plate and to opposite sides of said plane.

1,473,582. POLE CLEANING AND SHAVING MACHINE. RANDOLPH LEEDOM, Clifton, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed July 21, 1922. Serial No. 576,453. 4 Claims. (Cl. 144—208.)

1. A machine for peeling and shaving logs or poles, comprising means for supporting and rotating a log or pole, a pair of rotatable cutting brushes positioned adjacent the log, a motor operatively connected to the brushes, a movable support carrying said motor and having said brushes journaled therein, a supporting frame having guides for said support, counterbalancing mecha-



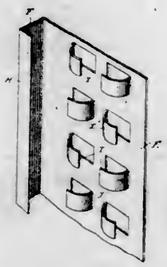
nism pivoted in said frame and having a weight adjustable toward or from the pivot and a flexible connection between said mechanism and said support.

1,473,583. AUTO DOOR SIGN. ALBERT W. LOHN, Jr., Los Angeles, Calif., assignor to Albert W. Lohn, jr., and Winifred M. Lohn. Filed Apr. 14, 1922. Serial No. 552,686. 1 Claim. (Cl. 40—125.)



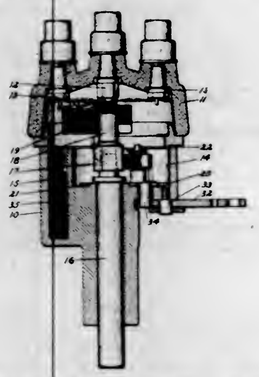
An auto door sign comprising a flat member having its upper edge turned at right angles to overlie upper edge of door and having a spring holding member from the horizontal part thereof extending downwardly and inwardly to yieldingly engage the inside of said door, substantially as described.

1,473,584. METAL PROTECTION FOR BUILDING WALLS. JAMES M. NORMAN, Atlanta, Ga., assignor to Dowman-Dozier Mfg. Co., Atlanta, Ga., a Corporation of Georgia. Filed Nov. 4, 1922. Serial No. 599,017. 4 Claims. (Cl. 72—98.)



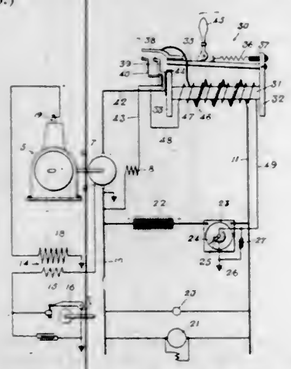
1. For use in connection with door and window frames in the walls of buildings, a sheet metal plate having a plane body adapted for attaching flatwise to such frame and provided along the side adjacent to said opening with a hook-like flange forming with the body a groove adapted to be filled by mortar constituting a plaster wall-coat, and further having along the middle region of said body a series of spaced, integral, laterally and terminally open hooks projecting to the middle region of the space bounded by the main surfaces of the plaster coat.

1,473,585. IGNITION DEVICE FOR AUTOMOBILES. HARRY R. PATTERSON, Toledo, Ohio. Filed July 9, 1917. Serial No. 179,430. Renewed Apr. 5, 1923. 20 Claims. (Cl. 123—148.)



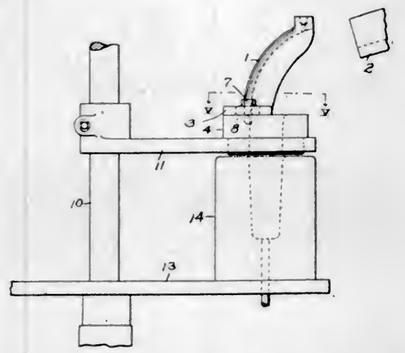
1. In a device of the class described, the combination of a casing, having an interrupter chamber and a condenser chamber; an interrupter plate rotatably mounted in said interrupter chamber; a bracket mounted on said plate, but insulated therefrom; a fixed contact carried by said bracket; an interrupter lever mounted on said plate; an interrupter cam adapted to vibrate said lever; means for rotating said plate to advance and retard the spark, said interrupter lever carrying a contact adapted to coact with said fixed contact to open and close the primary ignition circuit; a plurality of condensers carried in said condenser chamber; a contact arm connected to each condenser, said contact arms being of varying length, and insulated from each other; and a terminal carried by said interrupter plate and electrically connecting said bracket with a source of current, and having an upwardly extending stem adapted to engage one or more of said contact arms according to the position of said plate.

1,473,586. ELECTRIC-POWER PLANT. HARRY R. PATTERSON, Toledo, Ohio. Filed Sept. 10, 1919. Serial No. 322,795. Renewed Mar. 27, 1923. 6 Claims. (Cl. 290—35.)



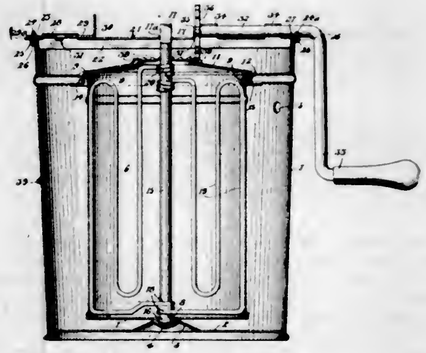
2. In a system of the class described, the combination of a dynamo-electric machine, a battery connected in circuit to be charged thereby, an electro-magnetic switch in said charging circuit, said switch including a potential winding, and an ampere hour meter in series with said battery, said meter being constructed to normally maintain the circuit of said potential winding closed and to open the same when a predetermined quantity of electricity has been received by said battery.

1,473,587. APPARATUS FOR FEEDING MOLTEN GLASS. KARL E. PEILER, West Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y., a Corporation of New York. Filed Feb. 19, 1920. Serial No. 359,958. 5 Claims. (Cl. 49—14.)



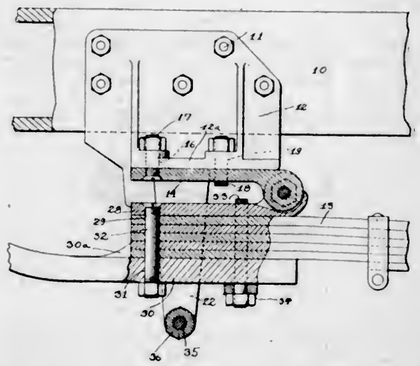
1. In apparatus for delivering gathers of molten glass, the combination with a shaping mold, of a deflector in the form of an inverted trough positioned to receive the gather tangentially and of such longitudinal curvature that the gather is gradually deflected from its original path and follows the curved trough without deformation into the mold.

1,473,588. ICE-CREAM FREEZER. TURNEY H. STOUGH, Jeannette, Pa., assignor to Jeannette Toy & Novelty Co., Jeannette, Pa., a Corporation of Pennsylvania. Filed May 11, 1923. Serial No. 638,366. 5 Claims. (Cl. 259—53.)



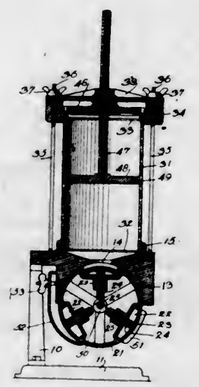
1. In an ice cream freezer embodying a freezer receptacle and a cream can rotatable therein with a stationary dasher in the cream can, a bridge piece struck from sheet metal extending across the upper edge of the freezer receptacle, cooperating devices carried by the receptacle and bridge for locking the latter in position, the connection between the freezer receptacle and bridge piece including a single wire loop extending upwardly from the upper edge of the freezer receptacle and a pair of similar loops diametrically opposite the single loop, one edge of the bridge having a transverse slot through which the single loop projects, a pair of legs at the other end of the bridge extending into the pair of loops, and a sliding lock plate carried by the bridge and extending into the single loop for locking the bridge on the freezer receptacle.

1,473,588. AUXILIARY SPRING DEVICE FOR VEHICLES. ALEXANDER TELLESON and WESLEY W. WARNOCK, Castor, Alberta, Canada. Filed Oct. 15, 1920. Serial No. 417,131. 3 Claims. (Cl. 267—28.)



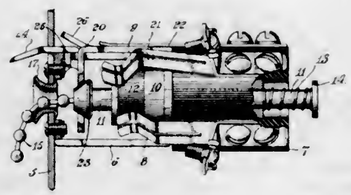
1. In a device of the type described and in combination with a side bar having a bracket secured thereto, of a pair of plates hinged together at corresponding ends, one of said plates being secured to said bracket, a spring secured adjacent its inner end to the other of said hinge plates, the hinged connection of said plates being at the end thereof remote from the inner end of the spring, a lever arm secured to the inner end of said spring and to said last named hinge plate, a spring connecting the lever arm and side bar, said first named hinge plate embodying downwardly extending arms straddling the spring and other hinge plate and having their ends disposed below said spring lever arm, a transverse member connecting the arms below said spring lever arm, and a roller mounted on said transverse member, the arms of the first named hinge plate having their point of attachment thereto spaced from the hinged connection of the plates.

1,473,590. MEAT PRESS. DAVID A. WALLACE, Waterloo, Iowa, assignor of two-thirds to August Schoel, Waterloo, Iowa. Filed Mar. 30, 1922. Serial No. 548,098. 4 Claims. (Cl. 107—15.)



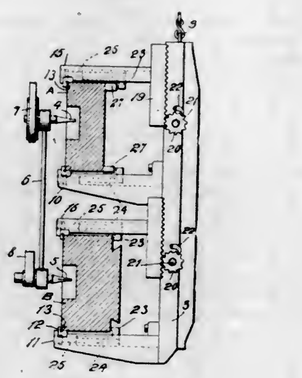
1. In a meat press of the class described including a frame, a container on said frame, a pair of brackets secured to said frame, a shaft detachably fixed to said brackets, a drum rotatable on said shaft, die members carried by said drum, a plunger mounted in said container and means for simultaneously forcing said plunger and for rotating said drum.

1,473,591. ELECTRIC SIGNAL SWITCH. JOSEPH O. CADIEUX, Meriden, Conn., assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn., a Corporation of Connecticut. Filed Mar. 9, 1923. Serial No. 623,949. 11 Claims. (Cl. 200—78.)



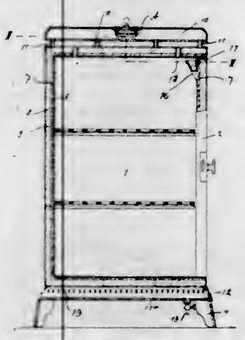
1. In an electric switch, a face plate, a frame secured to the back thereof, an insulating body carried by said frame, a contact carrying plunger reciprocable in said body, a latch for said plunger, a cord for operating said plunger in one direction, and manually operable means for releasing said latch.

1,473,592. FIXTURE FOR DIE-CUTTING MACHINES AND THE LIKE. WILLIAM P. CARTWRIGHT, Detroit, Mich., and JOSEPH F. KELLER, New York, N. Y., assignors to Keller Mechanical Engraving Company, Brooklyn, N. Y., a Corporation of New York. Filed June 21, 1919. Serial No. 305,854. 11 Claims. (Cl. 90—13.2.)



1. In a die cutting machine or the like, a fixture comprising a movable face-plate, brackets secured to the face-plate, said brackets being provided with members having work holding faces facing toward and located in a plane parallel with and spaced from the surface of said face-plate, and means for clamping the work against said faces.

1,473,593. EVAPORATIVE REFRIGERATOR. LEOPOLD KIRSCHMANN, Berlin-Halensee, Germany. Filed Feb. 6, 1923. Serial No. 617,419. 8 Claims. (Cl. 62—90.)



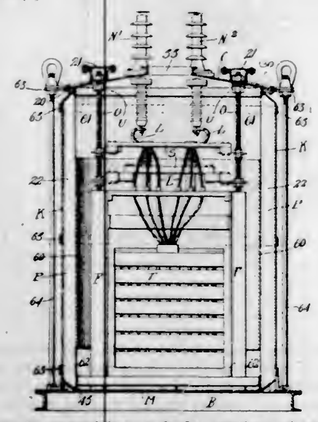
1. An evaporative refrigerator in which the walls are covered on the outside by a layer of waterholding fibrous material and by an outer envelope of tiles made from magnesia.

1,473,594. MOISTENER FOR ENVELOPES AND THE LIKE. ELMER E. JENNE, Ilion, N. Y. Filed May 22, 1922. Serial No. 562,733. 2 Claims. (Cl. 91—51.)



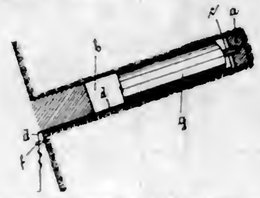
1. A device of the character described comprising an open topped receptacle, a pair of arms pivoted within the receptacle, a cylinder always partially submerged in water within the receptacle and covered when not in use and provided at its ends with trunnions detachably engaged upon said arms, and a cover slidable upon the receptacle and formed with cam projections engaging said arms for effecting raising and lowering of the cylinder.

1,473,595. TANK STRUCTURE. ROBERT V. BINGAY, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company, a Corporation of Pennsylvania. Filed June 2, 1920. Serial No. 386,115. 14 Claims. (Cl. 220—72.)



1. A tank comprising a body portion of corrugated sheet metal having corrugations with outer bends formed without welding and the opposite edges of the ends of the corrugations being respectively rounded over and welded together to form an arch, the bodies of the corrugations extending between said welds being bent to form a continuous inclined surface meeting said welds in a continuous ridge, the whole forming a self sustaining unitary structure.

1,473,596. METHOD OF PREPARING BLASTING CHARGES FOR IGNITION. LEOPOLD LISSE, Berlin, Germany. Filed July 19, 1920. Serial No. 397,551. 2 Claims. (Cl. 102—6.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



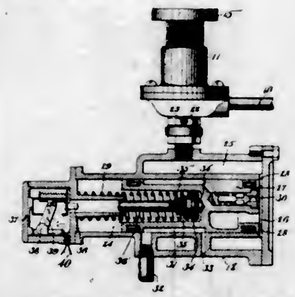
1. The hereinafter described method of preparing for ignition blasting charges intended to be exploded with the aid of liquefied gases which consists in introducing the ignitor into the borehole, arranging the electric circuits necessary for the igniting operation, and subsequently placing the cartridge into position in the borehole.

1,473,597. PACKING. CHARLES I. E. MASTIN, Midland Park, N. J. Filed Aug. 4, 1920. Serial No. 401,145. 5 Claims. (Cl. 154—45.5.)



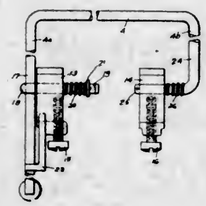
1. A flexible unitary packing body including coils arranged around a common axis side by side, the alternating coils being composed of unyielding material and the remaining coils of yielding material.

1,473,598. COMPRESSOR-CONTROLLING MECHANISM. LEWIS JOSEPH CLAPP, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Oct. 7, 1918. Serial No. 257,135. 39 Claims. (Cl. 230—24.)



4. In a compressor system having a motor, a compressor and an unloader therefor, the combination including a switch for controlling the motor, means for operating the switch, and means carried by said first named means but acting independently thereof for operating the unloader to unload the compressor.

1,473,599. COMBINED ANTIGLARE AND WEATHER SHIELD. HARRY CLARK, Springfield, Ohio. Filed Apr. 11, 1921. Serial No. 460,347. 3 Claims. (Cl. 296—97.)



1. In a device of the character described, the combination, with a windshield of a motor vehicle, of an auxiliary shield in front of said windshield, supports fixedly secured to the top edge of said windshield, extensions from said auxiliary shield projecting over the top edge of said windshield and out of contact therewith and pivotally connected with said supports, one of said extensions forming an operating handle on the rear side of said windshield, a toothed rack formed on one of said supports, with teeth on one side thereof and yielding means for holding said operating handle into sidewise engagement with said rack.

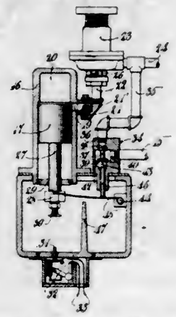
1,473,600. CAN OPENER. VAN V. CURTIS, Follansbee, W. Va. Filed May 9, 1921. Serial No. 467,842. 1 Claim. (Cl. 30—3.)



A can opener comprising a split flexible band to encircle the top of the can; lugs extended from the band inwardly over the top of the can; a cutting knife extended downwardly from one of these lugs; a catch terminating in a plug, riveted to one of the lugs; holes in the overlapping end of the band adapted to different size cans to engage the plug, thereby locking the ends together; and hand holds to facilitate the use of the device.

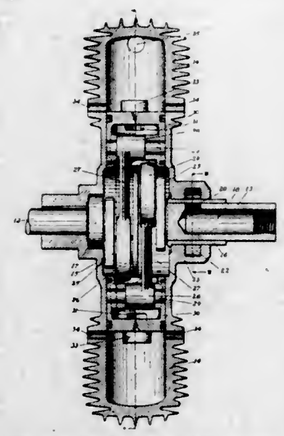
1,473,601. CONTROLLING MECHANISM. FRED D. HOLDSWORTH, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed July 6, 1920. Serial No. 394,296. 6 Claims. (Cl. 230—24.)

1. In a compressor controlling mechanism, in combination, a compressor unloading means, a controlling valve therefor, a flexible lever for actuating the latter, and means movable in consequence of compressor discharge pressure variations to move said lever and adapted



in different positions to pick up said lever and flex the same against said valve means and to move out of contact with said lever entirely.

1,473,602. TWO-CYCLE ENGINE. CARL P. BROCKWAY, Toledo, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Apr. 8, 1919. Serial No. 288,574. 3 Claims. (Cl. 123—44.)



1. In a gas engine, a fixed hollow journal, a plurality of radially arranged cylinders each containing a power piston, a common crank case for said cylinders mounted to rotate around said journal, said journal having an opening through its side connecting with the hollow interior thereof, and a valve sleeve constituting a bearing for said crank case upon said journal, said sleeve having an opening therethrough adapted to register with said journal opening, said crank case being formed to provide a continuously open passage to the exterior of said sleeve, whereby the fuel mixture is drawn in and compressed by the said power pistons.

Patents Nos. 1,473,603 to 1,474,339.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 316—No. 2. TUESDAY, NOVEMBER 13, 1923. Price—$5 per year.

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Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Issue of November 13, 1923.

Trade-Marks	320—No.	175,725 to No.	176,104, inclusive.
Labels	28—No.	26,507 to No.	26,544, inclusive.
Prints	14—No.	6,957 to No.	6,970, inclusive.
Reissues	5—No.	15,720 to No.	15,724, inclusive.
Designs	26—No.	63,250 to No.	63,275, inclusive.
Patents	737—No.	1,473,603 to No.	1,474,339, inclusive.
Total	1200		

Interference Notices.

U. S. PATENT OFFICE, *Washington, Oct. 30, 1923.*

Northwestern Soap Manufacturing Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of "S W" Powder Company, 2551 Whittier Boulevard, Los Angeles, Calif., for registration of a trade-mark and trade-mark registered May 17, 1921, No. 142,643, to Northwestern Soap Manufacturing Company, Lewistown, Mont., and a notice of such declaration sent by registered mail to said Northwestern Soap Manufacturing Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Northwestern Soap Manufacturing Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Oct. 30, 1923.*

Henry Jensen, his assigns or legal representatives, take notice:

An interferenee having been declared by this Office between the application of Golden Nugget Sweets, 7 College Terrace, San Francisco, Calif., for registration of a trade-mark and trade-mark registered March 12, 1901, No. 36,060, to Henry Jensen, 231 to 237 Norfolk Street, Cambridge, Mass., and a notice of such declaration sent by registered mail to said Jensen at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Jensen, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Oct. 30, 1923.*

Linden B. Thomas, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Vivian A. Shortt, 34 West Thirty-third Street, Indianapolis, Ind., for registration of a trade-mark and trade-mark registered May 9, 1916, No. 110,192, to Linden B. Thomas, 344 Weybosset Street, Providence, R. I., and a notice of such declaration sent by registered mail to said Thomas at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Thomas, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Oct. 31, 1923.*

Wabash Soap & Chemical Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between The Hoosier Manufacturing Co., 521–523 McCarty Street, Indianapolis, Ind., for registration of a trade-mark and trade-mark registered December 4, 1894, No. 25,590, to Wabash Soap & Chemical Co., Wabash, Ind., and a notice of such declaration sent by registered mail to said Wabash Soap & Chemical Co. at the said address having been returned by the post office authorities as undeliverable, notice is hereby given that unless said Wabash Soap & Chemical Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Oct. 16, 1923.*

Joseph R. Marquette, his assigns or legal representatives, take notice:

An interference having been declared by this Office between Joannes Bros. Co., 118 South Washington Street, Green Bay, Wis., for registration of a trade-mark and trade-mark registered March 20, 1900, No. 34,332, to Joseph R. Marquette, 120 Front Street, New York, N. Y., and a notice of such declaration sent by registered mail to said Joseph R. Marquette at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Joseph R. Marquette, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

Condition of Applications Under Examination at Close of Business November 2, 1923.

Room No.	(Total number of applications awaiting action, exclusive Trade-Mark Division, 71,938; Trade-Mark Division, 2,933. Oldest new case, Jan. 2, 1923; oldest amended, Jan. 5, 1923.) Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plant Husbandry Plows; Planting; Scattering Unloaders.	Feb. 7	Feb. 12	1,311
128	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Mar. 3	Feb. 6	1,347
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	May 5	Apr. 12	1,192
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Jan. 29	Apr. 2	1,550
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Jan. 12	Jan. 11	1,533
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Jan. 26	Mar. 21	1,859
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	Feb. 26	Feb. 27	2,683
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Apr. 7	May 8	1,763
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	Mar. 12	Sept. 14	846
235	10. BARTHOLOMEW, J. A., Motor Vehicles; Land Vehicles—Animal Draft Appliances, Bodies and Tops, Dumping, Wheel Substitutes.	Feb. 5	May 17	1,518
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skin, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	May 7	May 16	908
322	12. PIERCE, P. P., Machine Elements	Feb. 21	Feb. 17	1,373
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	Mar. 1	June 5	1,211
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Jan. 24	Sept. 27	1,051
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Jan. 13	Jan. 5	2,031
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Jan. 30	Jan. 30	2,642
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Association or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Jan. 8	May 17	1,538
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	Jan. 6	Jan. 25	2,020
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	July 2	July 23	633
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Dentistry; Locks and Latches; Safes; Undertaking.	Mar. 29	Apr. 2	1,513
212	21. THURBER, W. L., Winding and Reeling; Textiles—Braiding, Netting, or Lace Making, Cloth Finishing, Fiber Preparation, Knitting, Spinning, Twisting or Twining, Weaving.	Jan. 15	July 16	1,018
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Mar. 14	Mar. 20	580
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	Jan. 2	Jan. 11	751
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Feb. 2	Mar. 13	1,224
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Cutlery; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Gas Separation.	May 14	May 9	1,046
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Jan. 10	Jan. 19	1,005
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Jan. 30	Mar. 12	1,422
225	28. BENSON, A. R., Internal-Combustion Engines	Apr. 3	Mar. 26	1,348
147	29. MORRIS, B. N., Abrading; Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Feb. 1	Apr. 11	1,328
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Mar. 1	Aug. 7	1,881
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar, Starch, and Carbohydrates; Concentrating Evaporators.	Feb. 2	Feb. 3	1,657
120	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Jan. 8	Jan. 6	1,349
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	Feb. 12	Jan. 29	1,641
304	34. SIMPSON, G. E., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	Feb. 28	May 1	915
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	May 12	May 3	916
265	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Apr. 5	Mar. 24	2,042
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Feb. 14	Feb. 14	1,850
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Jan. 24	Jan. 17	1,889
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Jan. 17	Jan. 18	1,265
271	40. OBERLIN, J. J., Baggage; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 22	June 4	2,051
125	41. BROWN, J. L., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Mar. 12	May 1	1,018
114	42. CUTTING, H. C., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Feb. 6	Feb. 7	1,752
352	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Electricity, Medical and Surgical; Fire Extinguishers; Medicines; Sewerage; Surgery; Liquid Separation or Purification.	Mar. 1	Jan. 23	1,859
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	Mar. 1	May 9	1,180
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Apr. 3	Mar. 1	1,596
322	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Mar. 16	Apr. 9	1,448
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time-Controlling Mechanism.	Jan. 19	Apr. 21	1,217
116	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Jan. 2	Jan. 15	2,410
383	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	Mar. 3	Apr. 5	575
102	DESIGNS: C. O. MARKHAM (Acting)	June 18	July 7	1,183
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. {Trade-Marks	Sept. 1	Sept. 5	2,795
	{Labels and Prints	Oct. 17	Oct. 23	138

DECISIONS IN PATENT AND TRADE-MARK CASES.

U. S. Circuit Court of Appeals—Seventh Circuit.

SPLITDORF ELECTRICAL CO. *v.* WEBSTER ELECTRIC CO.

Decided February 5, 1921; on rehearing May 8, 1922.

[283 Fed. Rep., 83.]

1. PATENTS—EQUITABLE ESTOPPEL—APPLICANT ESTOPPED TO BROADEN THE CLAIMS OF A PATENT TO ANOTHER AND APPROPRIATE THE BROADENED CLAIMS MORE THAN TWO YEARS AFTER THE PATENT ISSUED.

Where the facts are distinguishable from the *Chapman Case* (*Chapman and Chapman* v. *Wintroath*, 272 O. G., 913) in that the claims are not identical with any claims in any issued patent, differing from them only in that they are more broad, more generic than the specific claims of the patent, it appears that the difference does not justify a different conclusion being reached.

2. SAME—SAME—INTENTIONAL DELAY IN BROADENING CLAIMS FOR YEARS AFTER FILING OF APPLICATION, THE DEVICE HAVING BEEN FOR YEARS IN GENERAL USE.

Where K. took the position that although he was estopped to make the specific detailed claims of the P. patent because of his delay in so doing, yet this estoppel did not and could not run as against claims which were not limited to any of these refinements or details. *Held* that K.'s position was untenable, since he knowingly and intentionally failed to present the broadened claims and did not seek to dominate the art by making them until eight years after he filed his original application and more than nine years after the device was in common use, during all of which time it was in general use.

3. SAME—SAME—ACQUIESCENCE IN A DECISION HOLDING AN APPLICANT GUILTY OF LACHES IN COPYING CLAIMS FROM A PATENT ESTABLISHES LACHES WHERE HE MAKES BROADER CLAIMS FOR SAME INVENTION LATER.

Where K. filed his application on February 2, 1910, which he amended on April 17, 1915, incorporating nine new claims, the first three of which were taken from P.'s patent, issued March 4, 1913, and the other six from a reissue of P.'s patent, dated February 9, 1915, and K. acquiesced in a decision holding that he was guilty of laches, but on June 17, 1918, presented two claims broader in scope, but depending for their support largely, if not entirely, upon that part of the specification which was incorporated by amendment in 1915 in support of the nine claims taken from P.'s patent, *Held* that if K. was guilty of laches in April, 1915, for failure to present the nine claims under consideration he must a fortiori be found guilty of laches in failing to present the broader claims until June 17, 1918.

APPEAL from the District Court of the United States for the Northern District of Illinois.

Suit in equity by the Webster Electric Company against the Splitdorf Electrical Company. Decree for complainant, and defendant appeals. Reversed, with directions to dismiss the bill.

See, also, *Webster Electric Co.* v. *Podlesak* (D. C., 255 Fed., 907). Certiorari granted 260 U. S., 715).

Before BAKER, EVANS, and PAGE, Circuit Judges.

On rehearing.

Mr. Edward Rector for the appellant.

Mr. Lynn A. Williams for the appellee.

EVANS, *Cir. J.*:

A rehearing in this case was granted because of uncertainty as to the correctness of our conclusion respecting the validity of claims 7 and 8 of the Kane patent [1,280,105]. In appellee's original brief the Kane invention was described as follows:

> At this juncture Mr. Kane invented the unitary magneto ignition equipment of his patent in suit. * * * In this device the magneto and the igniter plug are no longer separated, but are brought into one unitary structure, with no link mechanism intervening between the movable electrode and the armature shaft. * * *.

Speaking of its results, counsel said:

> When it is necessary to clean the spark plug, or to test or adjust the mechanism, the whole unitary structure may be removed, and its operation adjusted, and its spark observed in the open, and it may then be put back on the engine with absolute assurance that it will function in operative position precisely as it did when removed from the engine.

This position of counsel invited the observation of the court that—

> the essence of the contribution was the unitary structure made possible by the rigidly and inseparably connected parts, the magneto generator, and the unitary block.

The correctness of this position is now challenged because we failed to consider the effect of uniting in a single unitary structure *all* of the operating mechanism of the equipment, including, of course, the two elements aforementioned. We assumed, in determining the validity of the claim, that the Kane magneto ignition equipment was unitary in structure and permitted the operator to remove it from the engine, whereby it might be better examined and replaced, without changing the relative position of the two parts mentioned, and without disturbing the synchronism so much desired. We failed to appreciate fully what is now claimed as an important and valuable result, viz the creation of a spark, when the equipment is off the engine, identical with the spark produced when it is on the engine. In other words, inspection is for the purpose of locating trouble, and trouble generally is located in the spark or in its absence. Obviously the spark which the mechanic or operator endeavors to produce off the engine must be such a spark as is produced ordinarily when the magneto equipment is in its place on the engine.

The claim provides for an integral support upon which *all of the aforesaid parts are mounted*. The words "*all of the aforesaid parts*" are not properly restricted to the magneto and igniter plug. Appellee now asserts that the Kane unitary equipment, when removed from the engine to be cleaned

Condition of Applications Under Examination at Close of Business November 2, 1923.

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 71,938; Trade-Mark Division, 2,923. Oldest new case, Jan. 2, 1923; oldest amended, Jan. 5, 1923.) Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plant Husbandry Plows; Planting; Scattering Unloaders.	Feb. 7	Feb. 12	1,311
128	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Mar. 3	Feb. 6	1,347
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	May 5	Apr. 12	1,192
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Jan. 29	Apr. 2	1,550
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Jan. 12	Jan. 11	1,533
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Jan. 26	Mar. 21	1,859
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	Feb. 26	Feb. 27	2,683
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Apr. 7	May 8	1,763
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	Mar. 12	Sept. 14	846
235	10. BARTHOLOMEW, J. A., Motor Vehicles; Land Vehicles—Animal Draft Appliances, Bodies and Tops, Dumping, Wheel Substitutes.	Feb. 5	May 17	1,518
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skin, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	May 7	May 16	908
322	12. PIERCE, P. P., Machine Elements	Feb. 21	Feb. 17	1,373
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	Mar. 1	June 5	1,211
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Jan. 24	Sept. 27	1,051
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Jan. 13	Jan. 5	2,031
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Jan. 30	Jan. 30	2,642
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Association or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Jan. 8	May 17	1,538
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	Jan. 6	Jan. 25	2,020
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	July 2	July 23	633
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Dentistry; Locks and Latches; Safes; Undertaking.	Mar. 29	Apr. 2	1,513
212	21. THURBER, W. L., Winding and Reeling; Textiles—Braiding, Netting, or Lace Making, Cloth Finishing, Fiber Preparation, Knitting, Spinning, Twisting or Twining, Weaving.	Jan. 15	July 16	1,018
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Mar. 14	Mar. 20	580
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	Jan. 2	Jan. 11	751
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Feb. 2	Mar. 13	1,224
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Cutlery; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Gas Separation.	May 14	May 9	1,046
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Jan. 10	Jan. 19	1,005
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Jan. 30	Mar. 12	1,422
225	28. BENSON, A. R., Internal-Combustion Engines	Apr. 3	Mar. 26	1,348
147	29. MORRIS, B. N., Abrading; Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Feb. 1	Apr. 11	1,328
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Mar. 1	Aug. 7	1,881
172	31. HOLMES, W. H., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar, Starch, and Carbohydrates; Concentrating Evaporators.	Feb. 2	Feb. 3	1,657
120	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Jan. 8	Jan. 6	1,349
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	Feb. 12	Jan. 29	1,641
304	34. SIMPSON, G. B., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	Feb. 28	May 1	915
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	May 12	May 3	916
265	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Apr. 5	Mar. 24	2,042
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Feb. 14	Feb. 14	1,850
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Jan. 24	Jan. 17	1,889
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Jan. 17	Jan. 18	1,265
271	40. OBERLIN, J. J., Baggage; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 22	June 4	2,051
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Mar. 12	May 1	1,018
114	42. CUTTING, H. C., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Feb. 6	Feb. 7	1,752
382	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Electricity, Medical and Surgical; Fire Extinguishers; Medicines; Sewerage; Surgery; Liquid Separation or Purification.	Mar. 1	Jan. 23	1,859
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	Mar. 1	May 9	1,180
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Apr. 3	Mar. 1	1,596
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Mar. 16	Apr. 9	1,448
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time-Controlling Mechanism.	Jan. 19	Apr. 21	1,217
116	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Jan. 2	Jan. 15	2,410
383	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	Mar. 3	Apr. 5	575
102	DESIGNS: C. O. MARKHAM (Acting)	June 18	July 7	1,183
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. {Trade-Marks	Sept. 1	Sept. 5	2,795
	{Labels and Prints	Oct. 17	Oct. 23	138

DECISIONS IN PATENT AND TRADE-MARK CASES.

U. S. Circuit Court of Appeals—Seventh Circuit.

SPLITDORF ELECTRICAL CO. *v.* WEBSTER ELECTRIC CO.

Decided February 5, 1921; on rehearing May 8, 1922.

[283 Fed. Rep., 83.]

1. PATENTS—EQUITABLE ESTOPPEL—APPLICANT ESTOPPED TO BROADEN THE CLAIMS OF A PATENT TO ANOTHER AND APPROPRIATE THE BROADENED CLAIMS MORE THAN TWO YEARS AFTER THE PATENT ISSUED.

Where the facts are distinguishable from the *Chapman Case* (*Chapman and Chapman* v. *Wintroath*, 272 O. G., 913) in that the claims are not identical with any claims in any issued patent, differing from them only in that they are more broad, more generic than the specific claims of the patent, it appears that the difference does not justify a different conclusion being reached.

2. SAME—SAME—INTENTIONAL DELAY IN BROADENING CLAIMS FOR YEARS AFTER FILING OF APPLICATION, THE DEVICE HAVING BEEN FOR YEARS IN GENERAL USE.

Where K. took the position that although he was estopped to make the specific detailed claims of the P. patent because of his delay in so doing, yet this estoppel did not and could not run as against claims which were not limited to any of these refinements or details. *Held* that K.'s position was untenable, since he knowingly and intentionally failed to present the broadened claims and did not seek to dominate the art by making them until eight years after he filed his original application and more than nine years after the device was in common use, during all of which time it was in general use.

3. SAME—SAME—ACQUIESCENCE IN A DECISION HOLDING AN APPLICANT GUILTY OF LACHES IN COPYING CLAIMS FROM A PATENT ESTABLISHES LACHES WHERE HE MAKES BROADER CLAIMS FOR SAME INVENTION LATER.

Where K. filed his application on February 2, 1910, which he amended on April 17, 1915, incorporating nine new claims, the first three of which were taken from P.'s patent, issued March 4, 1913, and the other six from a reissue of P.'s patent, dated February 9, 1915, and K. acquiesced in a decision holding that he was guilty of laches, but on June 17, 1918, presented two claims broader in scope, but depending for their support largely, if not entirely, upon that part of the specification which was incorporated by amendment in 1915 in support of the nine claims taken from P.'s patent, *Held* that if K. was guilty of laches in April, 1915, for failure to present the nine claims under consideration he must a fortiori be found guilty of laches in failing to present the broader claims until June 17, 1918.

APPEAL from the District Court of the United States for the Northern District of Illinois.

Suit in equity by the Webster Electric Company against the Splitdorf Electrical Company. Decree for complainant, and defendant appeals. Reversed, with directions to dismiss the bill.

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Before BAKER, EVANS, and PAGE, Circuit Judges.

On rehearing.

Mr. Edward Rector for the appellant.

Mr. Lynn A. Williams for the appellee.

EVANS, *Cir. J.*:

A rehearing in this case was granted because of uncertainty as to the correctness of our conclusion respecting the validity of claims 7 and 8 of the Kane patent [1,280,105]. In appellee's original brief the Kane invention was described as follows:

> At this juncture Mr. Kane invented the unitary magneto ignition equipment of his patent in suit. * * * In this device the magneto and the igniter plug are no longer separated, but are brought into one unitary structure, with no link mechanism intervening between the movable electrode and the armature shaft. * * *.

Speaking of its results, counsel said:

> When it is necessary to clean the spark plug, or to test or adjust the mechanism, the whole unitary structure may be removed, and its operation adjusted, and its spark observed in the open, and it may then be put back on the engine with absolute assurance that it will function in operative position precisely as it did when removed from the engine.

This position of counsel invited the observation of the court that—

> the essence of the contribution was the unitary structure made possible by the rigidly and inseparably connected parts, the magneto generator, and the unitary block.

The correctness of this position is now challenged because we failed to consider the effect of uniting in a single unitary structure *all* of the operating mechanism of the equipment, including, of course, the two elements aforementioned. We assumed, in determining the validity of the claim, that the Kane magneto ignition equipment was unitary in structure and permitted the operator to remove it from the engine, whereby it might be better examined and replaced, without changing the relative position of the two parts mentioned, and without disturbing the synchronism so much desired. We failed to appreciate fully what is now claimed as an important and valuable result, viz the creation of a spark, when the equipment is off the engine, identical with the spark produced when it is on the engine. In other words, inspection is for the purpose of locating trouble, and trouble generally is located in the spark or in its absence. Obviously the spark which the mechanic or operator endeavors to produce off the engine must be such a spark as is produced ordinarily when the magneto equipment is in its place on the engine.

The claim provides for an integral support upon which *all of the aforesaid parts are mounted*. The words "*all of the aforesaid parts*" are not properly restricted to the magneto and igniter plug. Appellee now asserts that the Kane unitary equipment, when removed from the engine to be cleaned

or tested, is capable of a satisfactory test, because it operates in precisely the same way to produce identically the same spark whether on or off the engine.

The question before us is one of patentability. While invention will not be determined by results obtainable, we have referred to the production of the spark on or off the engine to emphasize the use of the word "all" in the claims. Stressing, as we must, the provision which calls for the integral support upon which "all of the aforesaid parts are mounted," the question of patentability becomes a close one. We have, upon a consideration of all of the evidence (extent of use, the effect of allowance by the Patent Office, the decision of the district judge, the prior art, as well as all the other evidence), come to the conclusion that our first decision is incorrect, and that patentable novelty is here disclosed.

It would serve no useful purpose to elaborate upon the reasons that impel us to reach this conclusion. The question has been twice fully argued, and counsel have apparently appreciated the closeness of the issue. Whether type of construction, manifested by size or location of parts, constitutes invention, must in the last analysis turn upon the facts in each particular case. Ordinarily, we might say, to construct a unitary structure without changing parts would not be invention. On the other hand, the unitary structure may have the parts so mounted as to result in a type or form so simple of operation or so handy and convenient in size or shape as to produce desirable results, which have been long, but unsuccessfully, sought by those skilled in the art. A finding, in support of which there is some evidence, that others skilled in the art failed after diligent effort to solve the problem, must, of course, be considered as rather persuasive in determining whether such advance constitutes invention.

Believing that we have erred in our previous conclusion, we avail ourselves of this opportunity to correct it. This conclusion respecting the patentable novelty back of claims 7 and 8 makes it necessary for us to consider one of the other defenses not heretofore considered by this court. In order to appreciate the defense of laches a more complete and detailed statement of the facts is necessary.

Kane's original application for Patent No. 1,204,573 was filed February 2, 1910, and was allowed November 14, 1916. The divisional application was filed January 14, 1915, and allowed September 24, 1918. Milton's patent, No. 1,096,048, was applied for October 28, 1910, and allowed May 12, 1914. On August 17, 1915, the Milton patent was placed in interference with the pending Kane application, and Kane won. The circumstances under which this decision was obtained destroy its effect, and counsel for appellee do not rely upon the adjudication of the Patent Office in respect to the issue of priority, but rest upon the finding of the district judge.

The Podlesak reissue patent, No. 13,878, was issued February 9, 1915, upon application filed December 23, 1914, the original patent being No. 1,055,076, issued March 4, 1913. Kane, by amendment filed April 17, 1915, introduced nine new claims; three being copies from the Podlesak original patent, and the remaining six from the reissue patent. These nine claims were rejected on various grounds, one of them being—

> that Kane had no right to make the claims in issue because of laches on his part, the claims not having been presented by him for more than two years after the issue of the original Podlesak patent, and not until some time after the issue of the reissued patent.

The Board of Examiners in Chief sustained Podlesak's contention, and it was held that the claims were barred by Kane's laches. Kane acquiesced in the decision with respect to three of the claims, which three claims correspond with those in Podlesak's original patent, but appealed to the Commissioner in respect to the remainder, the ones similar to those in the Podlesak reissue patent. The Commissioner affirmed the decision of the Examiners in Chief, but upon a different ground, viz, that the claims in question were not readable on Kane's disclosure. The court of appeals finally disposed of the matter against Kane, basing its decision both upon Kane's laches and upon the further ground that the claims were not readable upon Kane's disclosure. Following this decision, Kane, on June 17, 1918, filed an amendment, by which he introduced the two new claims, 7 and 8, now in issue. Kane's attorney, in presenting claims 7 and 8, stated to the Examiner:

> The decision of the court of appeals is, of course, binding upon the Primary Examiner to the effect that Kane is now estopped to make these specific detailed claims of the Podlesak patent because of his delay in so doing. In so far as any prosecution of this application before the Primary Examiner is concerned [we properly concede that we are bound by the estoppel of res adjudicata and by the court of appeals]. It is clear, however, that this estoppel does not and cannot run as against the claims now presented. * * * The two claims presented herewith are not limited to any of these refinements or details.

It is upon the foregoing facts, and others hereinafter related, that we must dispose of the question of laches. An inventor of a patent may lose his right thereto by waiver, by public grant, by estoppel or by laches. By failure to apply to the Government for a patent within the statutory period of two years, he loses his right as effectively as if he made specific grant thereof to the public. If in his application he seeks but a part of the claims to which he is entitled, he waives all right to those not claimed. He makes a donation to the public, and his right to the monopoly is gone forever. While the results are the same, there is, of course, a difference in the evidence which shows a grant to the public and the evidence which supports the defense of laches.

In support of the contention that section 4886, Revised Statutes (Comp. St., sec. 9430), requires a divisional application to be filed within two years from the allowance and publication of a patent covering the same claims, appellant cites *Chapman* v. *Wintroath* (252 U. S., 126, 40 Sup. Ct., 234; 64 L. Ed., 491; 272 O. G., 913). Subsequent to the filing of the original brief the following additional authorities were submitted, all based upon the views expressed in *Chapman* v. *Wintroath: De Ferranti* v. *Harmatta* (50 App. D. C., 393; 273 Fed., 357; 288 O. G., 205); *Ransdall* v. *Jahns* (51 App. D. C., 3; 273 Fed., 365; 288 O. G., 206); *Replogle* v. *Kirby* (50 App. D. C., 210; 269 Fed., 862; 284 O. G., 380); *Wells* v. *Honigmann* (50 App. D. C., 99; 267 Fed., 743; 280 O. G., 590). Our attention has been called to no case holding the contrary, and we have found none upon independent investigation.

True, the precise question here presented was not squarely raised, and therefore not decided, in *Chapman* v. *Wintroath*. In that case the divisional application was denied (no hearing was had, and no evidence was received) solely on the ground that it was not made within *one year* from the date of the allowance of a patent covering the same claims to another. Appellants contend, however, and we agree with the courts that have passed upon the question, that the effect of the holding is to fix the period during which such application must be filed at *two* years from the date of the issuances of the other patent. No other deduction can fairly or logically be drawn from the discussion of the question in that opinion. In fact, this was the effect of the holding upon the nine claims that Kane copied from the Podlesak patent, all of which were rejected because not timely made, and to which ruling appellee acquiesced.

[1] The facts in the present suit are distinguishable from the *Chapman Case*, in that the claims were not identical with any claims in any issued patent. While this distinction may be made, it appears that the difference does not justify a different conclusion being reached. The claims in question differ only in that they are more broad, more generic, than the specific claims that were rejected in the interference contest. But we are not required to rest our decision solely upon the two-year period fixed by the statute. Laches may arise and become an effective bar to relief under a variety of circumstances. Laches is based upon delay, and delay is a relative term. In the last paragraph of the opinion in *Chapman* v. *Wintroath* we find the court referring to laches other than that defined and fixed by the statute, by calling attention to the absence of any evidence in the case under consideration that would warrant any such finding. The court says:

> As has been pointed out, the Examiner of Interferences did not permit the introduction of any evidence with respect to laches or abandonment and the court of appeals rests its judgment, as he did, wholly upon the delay of the Chapmans in filing their divisional application for more than one year after the Wintroath patent was issued, as this appeared "on the face of the record." While not intending to intimate that there may not be abandonment which might bar an application within the two-year period allowed for filing, yet upon this discussion of the statutes and decisions we cannot doubt that, upon the case disclosed in this record, the Chapmans were within their legal rights in filing their divisional application at any time within two years after the publication of the Wintroath patent, and therefore the judgment of the court of appeals must be reversed.

[2] Turning to the facts in the present case, and for the moment ignoring any two-year rule, we find Kane's position in support of claims 7 and 8 untenable. Not only did he not intend to make these claims, in fact he knowingly and intentionally failed to present them, but not until eight years after he filed his original application, and more than nine years after the device was in common use, during all of which time it was in general use, did he seek to dominate the art by inserting these amended claims into the patent. When examined as to the new combination represented by these two claims, he testified that he had knowingly failed to claim it. The following testimony appears:

> Q. What? Didn't Mr. Webster ask you to help him out in connection with the means of fastening the magneto and the plug to the engine? A. No, sir; he did not.
> Q. He didn't discuss that at all with you prior to the time that you filed your application? A. He did prior to the time we filed the application.
> Q. Well, when was it he discussed that with you? A. Discussed that with me when I showed him the drawing.
> Q. Mr. Kane, is there anything on that drawing—the first one that you had—showing any means of regulating or determining what you call the cut-out of the spark? A. No, sir; there is not. * * *
> Q. Now, what did you tell him about the means by which the magneto and plug were to be attached to the cylinder? A. Well, outside of telling him that by doing that we had a means of securely fastening the magneto to the cylinder, and also a means of cutting out a lot of intermediate and useless mechanism, I do not know as I told him very much.
> Q. You did not consider it of very much importance; is that right? A. It seemed to me a matter more of design than importance—invention.
> Q. Is that what you told him? A. Yes, sir.
> Q. And you told him that you thought that it was not an invention, and was a mere matter of design? You told that to Mr. Sprinkle, did you, when you went to him to get a patent? A. I told him it was a good means and preferred means of fastening the magneto on the engine.
> Q. Well, I asked you if you told him that you thought it was a mere matter of design, and not an invention. A. I possibly did; yes.

Believing that the Podlesak invention was controlled through contract and otherwise, appellee was not greatly concerned about the question of who was the first inventor. Its attitude in the Milton-Kane contest is not such as to invite the court's confidence in the sincerity of its protestations nor in the good faith of its assertion that it was not endeavoring to improperly prolong its monopoly beyond the period fixed by statute. Having secured a favorable decision from the Patent Office in this interference contest through control and ownership of both sides of the litigation, it then discovered that its asserted rights under its patent and under its contract with Podlesak were challenged, and it again amended its specifications, inserting the new claims which necessitated an interference contest with Podlesak. This contest was bitterly fought, appeals being taken from the Examiner, and then to the Patent Commissioner, and then to the court of appeals, with the result that appellee was found guilty of laches and the decision went against it.

[3] Appellee filed the aforementioned amended application incorporating these nine new claims on April 17, 1915; the first three were taken from the Podlesak patent, issued March 4, 1913, and the other six from the Podlesak reissue patent, dated February 9, 1915. In this adverse decision appellee acquiesced, wherefrom it appears that, if appellee was guilty of laches in April, 1915, for failure to

present the nine claims under consideration, it must a fortiori be found guilty of laches in failing to present claims 7 and 8 until June 17, 1918. The allowance of these last two claims upon the amendment of June 17, 1918, was upon ex parte application and was made by the Examiner; the adverse parties, of course, not being present to protest or point out the error of such allowance. The claims differ, as heretofore stated, from the claims in the Podlesak patent, in that they are broader in scope, but the difference is not sufficient to avoid the effect of the decision in the Podlesak interference contest. They depend for their support largely, if not entirely, upon that part of the specifications which were incorporated by amendment in 1915, which amendment was made to support the nine claims taken from the Podlesak patent and subsequently rejected as heretofore described. We conclude Kane's laches barred his right to claims 7 and 8.

The decree is reversed, with directions to dismiss the bill.

U. S. Circuit Court of Appeals—Seventh Circuit.

HUNT, HELM, FERRIS & CO. *v.* C. A. LIBBEY CO.

Decided July 20, 1922.

[283 Fed. Rep., 58.]

1. PATENTS—1,160,589, FOR A STALL CONSTRUCTION, HELD NOT INFRINGED.
   The Ferris patent, No. 1,160,589, for a stall construction, covering a device for fastening cow stanchions to the cement base or curb, *Held* not infringed
2. SAME—1,172,236, FOR AN ANIMAL STALL, HELD NOT INFRINGED.
   The Ferris patent, No. 1,172,236, for an animal stall, covering means for adjusting the effective length of stalls with reference to the gutter at the rear, *Held* not infringed.
3. SAME—CLAIMS HELD TO CONTAIN INSUFFICIENT DESCRIPTION.
   Claims in a patent which describe a "means" only as for "quickly adjusting" or as "quickly releasable" do not describe a mechanical structure.
4. SAME—1,160,588, FOR CATTLE-WATERING DEVICE, HELD VOID FOR LACK OF INVENTION.
   The Ferris patent, No. 1,160,588, for a cattle-watering device, *Held* void for lack of invention.

APPEAL from the District Court of the United States for the Eastern District of Wisconsin.

Suit in equity by Hunt, Helm, Ferris & Co. against the C. A. Libbey Company. Decree for defendant, and complainants appeal. Affirmed.

Mr. Russell Wiles for the appellants.

Mr. Arthur L. Morsell for the appellee.

Before ALSCHULER, EVANS, and PAGE, Circuit Judges.

EVANS, *Cir. J.:*

Appellants on this appeal ask our consideration of three patents covering cow-barn appliances, all of which were held by the district court invalid or noninfringed.

[1] Patent No. 1,160,589, to Ferris, covering a "stall construction," deals with a device for fastening cow stanchions to the cement base or curb. Claim 1, being typical, reads as follows:

> The combination, in barn equipment, of the stall frame members of a series of stalls, a curb of a length equal to that of the series, each of said frame members having at its lower end curb-engaging devices embracing the upper portion of the curb, whereby the stall frame members can be readily adjusted to various positions along the length thereof.

To borrow Ferris's language:

> It has heretofore been the practice to secure these stalls thereto (to the cement base) by anchors set in the curb, during the building thereof. The setting of these anchors has involved nice positioning in the masonry, the use of carefully prepared templets, and in addition has required that the entire stall arrangement be carefully planned for in advance of the performing of the concrete work in the barn. My present arrangement is designed to obviate these difficulties. * * * The curb-engaging members are adjusted to the desired positions, small notches to receive the inwardly turned tips being chipped in the face of the curb, and the bolts are tightened up. This affords a firm and satisfactory anchor to which the vertical members of the stall frame can be readily attached.

Appellee's structure differs materially from that disclosed in the patent. The stall frame support is adapted to be set into the curbing when the cement is poured and "sets" therein. But, when thus "set," appellee's structure does not permit of the ready removal of the vertical members of the stall frame for longitudinal adjustment. In fact, the only removals contemplated for appellee's structure are limited to instances where the entire frame is taken out of the cement base to be placed into a new curbing—a new setting of cement into which it, as an entirety, must become a part. We fail to find any support for appellant's claim that infringement is shown.

[2] Patent No. 1,172,236, to Ferris, covers an "animal stall," but it is in reality limited to "adjusting means," so as to "adjust the effective length of stalls, so as to align the cattle with the gutters at the rear of the stalls."

The district judge covered the entire matter so fully and so well that we set forth his opinion in full and adopt it:

> With the patents in evidence, and the assurance of counsel on both sides that many others might be cited, it may be confidently observed that the animal stall, the stanchion, the adjustable stanchion, in fact, the barn equipment arts, had not been ignored prior to the advent of the patent in suit, February 15, 1916. The patents in evidence—Exhibits 28 to 36—cited in connection with this particular patent illustrate the extent to which workers in the art, in applying for patents, are quick to appropriate language of their predecessors descriptive of their objects or the situations wherein an invention may be utilized, and also strangely repugnant observations respecting, for example, the habits of animals—in this case, the cow. Thus, upon the hearing, in a comparison of the patented and the defendant's structure in this suit, the defendant urged that its structure was not operable as a practical matter with the cow in the stall because of the probable recalcitrant refusal of the cow to turn its neck to the right or to the left with the stanchion when it is being operated; whereas, the plaintiff, in seeking to refute this suggestion, urged that with its device, which did not turn in its operation, but was adjusted merely longitudinally, a cow, if it should happen to have its neck turned to the right or to the left, would readily respond to the requirements of the situation, and willingly place its head and neck in exact alignment with the proposed movement of the stanchion. So, too, the plaintiff urged that an advance had been made because of the greater adaptability to use of its stanchion for large herds, dispensing with his necessity of training the members to return to given stalls assigned to them respectively, because they might enter indiscriminately, and, assuming that they did, a readjustment of the stanchion would be promptly seen to by courteous bovine ushers constituting a part of modern barn organization. Indeed, in the patent in suit, the inventor seems to claim that the instantaneity of operation of his device dispenses not only with the necessity of training, but that it tends also to overcome any natural propensity found in the animal kind to return to an accustomed fold, and, further, to bring about a uniformity in length of the cows themselves, thereby dispensing ultimately with the necessity of any readjustment through any device; for it is said: "With my improved device, where the adjustment is instantaneous, the animals enter the stalls indiscriminately, and in practice it is found that only a relatively small percentage of a given herd requires adjustment."
>
> It is not necessary, at this point, to refer to the detailed specifications for construction, because they will appear sufficiently clear upon later reference to the art. The claims are:
>
> (1) "In combination, a series of stalls, each one of which is adapted to receive any one of the units of a herd indiscriminately, animal-holding devices for the several stalls, a gutter at the rear of the series, manually operated means for quickly adjusting the animal-holding devices longitudinally of the stalls after the animal is in place therein, and for securing said animal-holding devices in adjusted position, whereby each of the units of the herd is aligned with the said gutter, irrespective of the length of said units.
>
> (2) "In combination, a stall provided with a gutter longitudinally guiding means centrally located in the front of the stall and bearing a fixed relation to the gutter, a stanchion carried by the guiding means and movable along the same, and stanchion-securing mechanism for securing the stanchion in fixed positions on the guiding means and manually and quickly releasable to permit the adjustment of the stanchion while an animal is held thereby.
>
> (3) "In combination, a stall provided with a gutter, a tubular guide, a stanchion, a stanchion-carrying member running in a slot in the guide, and means for locking the stanchion-carrying member in a variety of positions in the guide, and adapted to release and lock the same quickly to permit its adjustment while an animal is held thereby."
>
> [3] Upon reference to the patents brought to the attention of the court, Exhibits 28 to 36, it appears, immediately, that not a single element is lacking in the art and that upon the broad wording (for example, of claim 1) a clear anticipation is found in some of the prior art structures, provided only they may in any fair sense be said to be "quickly adjustable," "quickly releasable to permit adjustment," or "adapted to release and lock the same quickly to permit its adjustment while an animal is held thereby." It is idle, upon cursory inspection only, to suggest that the combination of claim 1 is not found in the patent to Weber, 1,163,723. By this is meant that the patentee Ferris herein has failed to give his "means"—effective as "quickly adjustable" or "quickly releasable"—a definition which in a mechanical sense (unless limited to his precise disclosure) will distinguish his claims from either prior or possibly future structures in the art. Plainly, those words do not describe a mechanical structure. Weber's structure was undoubtedly "quickly" adjustable "or quickly releasable" as against one not so "quick." Identically true is this of Stillman. These two are referred to primarily because structurally each contains the means for longitudinal adjustment through manually operated means, guiding means, in one of these patents centrally, the other one not centrally, located; in the one tubular, and in the other not a tubular, guide, but in all in a combination with stalls animal-holding devices, a gutter at the rear of the series of the stalls, all of them in a fixed relation to such gutter and operable to align the animals. Plainly, whether they operate or are releasable "quickly" invloves a comparison of discharge of functions in point of time, and, as observed, Weber and Stillman may readily respond to that characterization when put up against other structures functioning less "quickly."
>
> In a broad and in a true sense, Ferris may be distinguishable from Stillman and Weber, in that he introduces a mechanism to be operated upon different manual exertion. But it is equally true that claims in the use of broad language such as "quick," "quickly releasable," and the like, do not describe a structure. They describe the results of comparison of one structure in its operation in point of time as against another structure. I am speaking now particularly of claims 1 and 2, which make no attempt to describe a structure or means. Can it be said that a patentee describing a function or means, or merely the carrying out his idea, by language having the purport indicated, thereby gains a monopoly of every conceivable construction which in respect of a time element may respond to such language? The Weber structure, clearly one for manual operation and adjustment, containing even the specific tubular guide, is readily open to transformation by adoption of variety of means quickly releasable. Therefore, granting that Ferris in his specific disclosure made a novel advance over Weber, should he, through disclosure of a single one of limitless possible conceptions, and by use of nonmechanical language descriptive merely of relative rapidity of function, be allowed to appropriate a conception so radically different as is found in the defendant's structure? Let it be viewed from another angle. Ferris could well concede that Stillman and Weber had "quickly releasable" or "quickly locking," or "quickly adjustable" mechanisms when viewed in the light of their predecessors. He seemed to think that any mechanism which dispensed with the use of wrenches, bolts, etc., was also "quickly releasable," "quickly locked," or "quickly adjustable." But he disclosed a single structure, a single conception, embodying his advance.
>
> The most cursory comparison of Ferris's and the defendant's structure, discloses their fundamental differences. No matter how variant, how great the advance in ingenuity, the plaintiff here seeks to claim infringement merely because Ferris's and defendant's structures are both "quick" in their operation. Therefore, while the defendant's structure adjusts or releases or locks "quickly," and has nothing of true mechanical equivalency in it, yet it is sought to subject it to the principles of equivalency, solely because, like plaintiff's, its functioning, as noted, may be said to be "quick." It is conceded by the plaintiff that, though in the defendant's operation five steps are taken as against three in the plaintiff's, the former has distinct advantages from a practical and mechanical point of view. Now, under these circumstances can it be said that Ferris got a patent coextensive with the almost illimitable field for developing "quick adjustment," and that he may henceforth not only dominate, but exclusively possess, the art as it was left by Stillman and Weber?
>
> As further illustrative of the thought before expressed, an interesting comparison may be made between Ferris's claims 1 and 2, on the one hand, and 4, on the other. In 3 and 4, which, I assume, are professedly narrower claims, the particular structure found in the specifications is attempted to be described. Therefore—as to claim 4—no pretense of infringement can arise. But, as above indicated, claims 1 and 2 describe no means, but profess to include every conceivable means, provided only that, upon some standards, which likewise are not disclosed, the mechanism must be "quick." I am satisfied that upon no theory or interpretation can his claims be given such breadth; that on the contrary, his structure must be limited to his plain disclosure and description of a specific structure, and whatever equivalency may attend, it does not comprehend a structure which, like defendant's, presents fundamental difference in mechanical principles resulting in a fundamentally improved structure.

[4] Patent No. 1,160,588, to Ferris, covering a "cattle watering device," is challenged for want of patentable novelty. Claim 1 reads:

> A device of the character described comprising a vertically extending water pipe adapted to be connected at either of its ends with a source of supply, a bowl carried by the water pipe and mounted exteriorly thereof, means on the water pipe for supporting the bowl thereon, a waterway from the interior of the pipe adapted to deliver water into the bowl, a valve in said waterway, and a valve-operating member extending from the waterway into the bowl and so positioned as to engage the muzzle of an animal drinking from the bowl.

Appellants have narrowed the issue greatly by a frank and full concession, which eliminates any necessity of referring to prior patents with which the art abounds. They say:

> It is exceedingly old to build an animal watering device in which there is a bowl in which the animal sticks its nose, and in which bowl is mounted a grille, grating, or projection which is struck by the animal's nose, and which in turn operates a valve, so as to turn on the water and fill the bowl. Water thus flows in the bowl when the animal is drinking, and it is turned off when the animal is not drinking. The idea is illustrated in the Gilbert patent, applied for in 1884, and in the succeeding patents to Speicher, Yont, Anderson, Howart, and Cheevers, and in the French patent to Banduin. All of these devices consist broadly of the same elements, the bowl and water supply, a valve and a valve-operating member within the bowl, adapted to be engaged by the nose of the animal in seeking water.

With equal clearness counsel for appellants has described Ferris's contribution. He says:

> Having removed the pipe from the bowl and used it to support the bowl, it became necessary to bring the water over into the bowl, and thus a new element was added, the waterway or nozzle, which runs over from the vertical pipe to the interior of the bowl. This having been done, a valve had to be set in this waterway, and the usual animal operated device had to be provided.

An elaborate and ingenious argument is advanced in favor of this patent, wherein we are

asked to ignore the teachings of the plumbing art, and to assume that the inventor working in the cow-stanchion art was ignorant of what had occurred in other mechanical fields, and that his skill and knowledge alone defines the standard by which we must determine the difference between inventive genius and mechanical skill.

We conclude that the teachings of the plumbing art were before Ferris when he constructed his water bowl, and that his bowl failed to rise to the dignity of invention.

The decree is affirmed.

ADJUDICATED PATENTS.

(D. C. N. Y.) The Todd patent, No. 798,849, for check protector, claims 3, 4, and 5 *Held* valid and infringed. *Todd Protectograph Co.* v. *Safe-Guard Check Writer Co.*, 291 Fed. Rep., 613.

(C. C. A. Pa.) The Callahan patent, No. 948,719, for apparatus for elevating and distributing concrete and plastic material, *Held* invalid for want of invention. *Concrete Appliances Co.* v. *Gomery*, 291 Fed. Rep., 486.

(D. C. Conn.) The Alleyn patent, No. 995,758, for furniture tip, *Held* not infringed. *Lincoln* v. *Waterbury Button Co.*, 291 Fed. Rep., 594.

(D. C. N. J.) The Abbott patent, No. 1,333,363, for compound for penetrating interior corrosion, claims 2, 3, 5, and 6 *Held* not infringed. *Polygon Products Corporation* v. *Kant-Rust Products Corporation*, 291 Fed. Rep., 702.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

958,478, Wellington E. Davey, Process of reinforcing trees, suit filed July 17, 1923, D. C., N. D. Ohio (Eastern Division), Doc. 945, *The Davey Tree Expert Co.* v. *Joseph K. Russell.* Permanent injunction granted.

1,011,484, Perkins and Double, Method of excluding water from oil wells, suit filed June 29, 1923, D. C., S. D. Calif., Doc. G-114, *Perkins Oil Well Cementing Co.* v. *J. M. Owen.*

1,021,890, George E. Riblet, Slide trombones, suit filed June 30, 1923, D. C., S. D. Calif., Doc. G-115, *F. E. Olds* v. *George J. Birkel Co.*

1,180,799, Robert A. Stranahan, Spark plug, suit filed Nov. 24, 1922, D. C., N. D. Ohio (Western Division), Doc. 260, *Champion Spark Plug Co.* v. *S. S. Kresge Co.* Decree for complainant Sept. 26, 1923.

1,262,860, Samuel B. Smith, Incubators, suit filed June 4, 1923, D. C., N. D. Ohio (Western Division), Doc. 401, *The Buckeye Incubator Co.* v. *Claude M. Lower.* Decree for complainant June 30, 1923.

1,263,188, Samuel B. Smith, Incubators, suit filed Feb. 4, 1923, D. C., N. D. Ohio (Western Division), Doc. 310, *The Buckeye Incubator Co.* v. *D. A. Wolf.* Decree for complainant May 28, 1923.

1,270,184, William E. Margarrell, Combined table and ironing board, suit filed Feb. 23, 1923, D. C., S. D. Calif., Doc. G-75, *Chester R. Cox* v. *O. V. Pratt and F. S. Warner* (*Pratt & Warner*). Consent decree in favor of plaintiff, restraining defendants from infringement of claims 1, 3, 5, 7, and 9, Oct. 9, 1923.

1,270,712, Emanuel W. Dunn, Orchard heater, suit filed May 10, 1922, D. C., S. D. Calif., Doc. 1105, Civ. No. G-119 Equity, *Emanuel W. Dunn* v. *Fruit Growers' Supply Co.*

1,323,867, Frederick H. Johnson, Systems and means of control, suit filed Oct. 4, 1922, D. C., S. D. Calif., Doc. F-55, *Hadden Automatic Sprinkler Co.* v. *John S. Hadden et al.* Interlocutory decree. All claims infringed, permanent injunction against infringement and use of plaintiff's name in unfair competition.

1,343,642, Charles Henry Pray, Fire escape, suit filed Jan. 20, 1922, D. C., S. D. Calif., Doc. F-89, *Charles Henry Pray* v. *W. B. Copes et al.* Bill dismissed, patent not infringed, July 23, 1923.

1,392,265, George Heberlein, Cotton fabrics, suit filed May 20, 1922, D. C., S. D. N. Y., Doc. E 24-11, *Heberlein Patent Corporation* v. *Herbert B. Lederer Co.* Final consent decree, holding patent valid and infringed, Oct. 9, 1923.

1,421,339, Joseph Zalowitz, Gem settings, suit filed Aug. 4, 1922, D. C., E. D. N. Y., Doc. 1105, *Joseph Zalowitz* v. *Samuel Gorlitz et al.* Interlocutory decree in favor of plaintiff, with reference to a master, Oct. 28, 1922.

1,440,220, Henry Hopkes, Knife sharpener, suit filed Apr. 16, 1923, D. C., S. D. Calif., Doc. G-87, *Milton G. Goff* v. *George Voglin.* Interlocutory decree of infringement by default. Permanent injunction.

Disclaimer.

1,288,733.—*William C. Stevens*, Akron, Ohio. TIRE-OPENING MACHINE. Patent dated December 24, 1918. Disclaimer filed October 25, 1923, by the assignee, *The Firestone Tire & Rubber Company.*

Hereby enters this disclaimer—

"To that part of the claims in said specification which is in the following words, to wit:

"1. In a machine for the purpose set forth, the combination of two members adapted to enter the edges of a tire casing and mechanism to separate said members.

"2. In a machine for the purpose set forth, the combination of a finger adapted to enter between the edges of a tire casing, a second finger likewise adapted to enter between the edges of the casing and means to move one of said fingers relative to the other to hold the edges of the casing separated.

"4. In a machine for the purpose set forth, the combination of a series of arms arranged in a circle, fingers on the ends of said arms projecting outwardly of said circle, a second series of arms, fingers on the ends of said second arms normally located adjacent said first named fingers, and means for moving one of said series of arms to separate the fingers.

"6. In a machine for the purpose set forth, the combination of a series of arms arranged in a circle, fingers on the ends of said arms projecting outwardly of said circle, a second series of arms, pivotal mountings for said second named arms, angular portions at the ends of said second named arms, fingers on the ends of said angular portions adjacent to and extending in the same direction as said first named fingers, and means for moving one of the sets of arms to separate the fingers."

TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 13, 1923.

[VOL. 316. No. 2.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 109,931. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) G. SIDENBERG & Co., New York, N. Y. Filed Apr. 2, 1918.



Particular description of goods.—Cotton Piece Goods. *Claims use* since Jan. 1, 1900.

Ser. No. 118,614. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOCIÉTÉ ANONYME DES PRODUITS DU LION NOIR, Montrouge, near Paris, France. Filed May 17, 1919.



All printed words appearing in the drawing with the exception of "Lion Noir" are disclaimed apart from the drawing as shown.

Particular description of goods.—Liquids, Powders, and Pastes for Cleaning or Scouring Felt, Fabrics, Hats Including Straw Hats, Furniture, Floors, Wainscoting, Marble, Varnished or Painted Surfaces, and Paintings. *Claims use* since May, 1884.

Ser. No. 138,498. (CLASS 39. CLOTHING.) JACOBS & THATCHER Co., Brooklyn, N. Y. Filed Oct. 19, 1920.



Particular description of goods.—Ladies' Shoes Made of Leather, Kid, and Combination Leather and Fabric. *Claims use* since Aug. 17, 1920.

Ser. No. 141,922. (CLASS 5. ADHESIVES.) MCCAW, STEVENSON & ORR, LTD., Belfast, Ireland. Filed Jan. 6, 1921.

SECCOTINE

Particular description of goods.—Adhesive Cements for Uniting Various Materials and Articles. *Claims use* since March, 1891.

Ser. No. 146,186. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WHITE PRODUCTS COMPANY, Chicago, Ill. Filed Apr. 14, 1921.

LOCK-A-METER

Particular description of goods.—Radiator Caps. *Claims use* since January, 1921.

Ser. No. 146,524. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CHANDLER AND RUDD COMPANY, Cleveland, Ohio. Filed Apr. 22, 1921.

CLUB HOUSE

Particular description of goods.—Cheese and Butter.
Claims use since October, 1891.

Ser. No. 146,750. (CLASS 39. CLOTHING.) ROBERT ABLETT & Co. INC., Whitesboro, N. Y. Filed Apr. 26, 1921. Under ten-year proviso.

Anchor

Particular description of goods.—One and Two Piece Knit Underwear for Men, Women, and Children.
Claims use since 1887.

Ser. No. 148,614. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE WILLIAM PRYM COMPANY, LIMITED, Stolberg, Germany. Filed June 3, 1921.

The words "Industria Allema," "Marca Registrada," "Botoes de pressao," "Indispensaveis para vestidos de Senhoras," and "nao quebram" and "Nunca enferrujam," together with the representation of the card, are disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Bone Stilettos, Hooks and Eyes, Corset Eyes, Double Eyes, Shoe Eyes, Snap Fasteners, Shoe Buckles Not Made of Precious Metals, Waistband Clasps, Waist and Corset Clasps; Snap Fasteners on Tape and Hooks and Eyes on Tape for Fastening Waists, Skirts, Plackets, Dress, and Other Articles of Clothing; Waist-Belt Clasps; Dress Holders, Such as Large Snap Fasteners, Used for Supporting Articles of Clothing; Shoe Buttoners, Glove Buttoners, Thimbles and Buttons Not Made of Precious Metals, Collar Supporters, Sewing and Knitting Needles, Pins Without Ornamentation and Not Made of Precious Metals, and Ornamented Hairpins Not Made of Precious Metals.
Claims use since Aug. 20, 1909.

Ser. No. 151,259. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) DELMORE MANUFACTURING CO., INC., New York, N. Y. Filed Aug. 2, 1921.

Parcelmobile

Particular description of goods.—Small Three-Wheeled Motor Vehicles for Passengers or Freight.
Claims use since June 11, 1919.

Ser. No. 152,131. (CLASS 38. PRINTS AND PUBLICATIONS.) LAUNDRY AGE PUBLISHING CO., INC., New York, N. Y. Filed Aug. 24, 1921.

LAUNDRY AGE

Particular description of goods.—Periodical Published Monthly and Circulated in the Laundry Trade.
Claims use since Mar. 1, 1921.

Ser. No. 153,003. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) C. M. KIMBALL COMPANY, Winthrop, Mass. Filed Sept. 16, 1921.

RED CAP

Particular description of goods.—Metal Polish, Silver Polish, and Stove Polish.
Claims use since Feb. 1, 1921.

Ser. No. 153,196. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) ROBERT BEARDSLEY, doing business as Beardsley Studios, Chicago, Ill. Filed Sept. 22, 1921.



"PARCH-METAL"

The lamp and bowl shown are disclaimed apart from the mark shown.

Particular description of goods.—Lighting Fixtures—Namely, Lamp Bases and Fiber Lamp Shades and Frames.
Claims use since Aug. 1, 1921.

Ser. No. 154,118 (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARTHUR W. BARBER, Chazy, N. Y. Filed Oct. 15, 1921.

SABINE FARM

Applicant disclaims all right to the exclusive use of the word "Farm."

Particular description of goods.—Butter, Raw Cream, Fresh Eggs, Maple Sirup for Food Purposes, Vinegar, Butternuts in Their Natural State, Jelly, Dry Beans, Wheat, Oats, Indian Corn, Barley, Buckwheat, Fresh and Canned Deciduous Fruits, and Vegetables.
Claims use since Oct. 1, 1921.

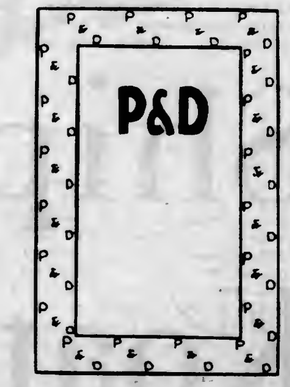
Ser. No. 155,590. (CLASS 39. CLOTHING.) R. L. BENNETT CO., New York, N. Y. Filed Nov. 19, 1921.

Bennett's Bathing Trunks

No claim is made to the exclusive use of the words "Bathing Trunks" apart from the mark as shown on the drawing.

Particular description of goods.—Bathing Suits and Bathing Trunks.
Claims use since about September, 1921.

Ser. No. 156,058. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PEASE & DWYER CO., Memphis, Tenn. Filed Nov. 29, 1921.



Particular description of goods.—Cattle and Poultry Feed.
Claims use since Oct. 15, 1921.

Ser. No. 156,117. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACOB L. SHROYER, doing business as Grainola Mfg. Co., Chicago, Ill. Filed Nov. 30, 1921.

GRAINOLA

Particular description of goods.—Cereal Food Drink.
Claims use since Sept. 1, 1919.

Ser. No. 156,349. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) BOYD-BRENIZER CORPORATION, Wilmington, Del., and Philadelphia, Pa. Filed Dec. 7, 1921.

CURLOX

Particular description of goods.—Hair Curlers.
Claims use since about May 16, 1921.

Ser. No. 157,007. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE RUSSELL MANUFACTURING CO., Middletown, Conn. Filed Dec. 21, 1921.



Particular description of goods.—Brake Lining.
Claims use since November, 1920.

Ser. No. 158,839. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOWERS AND GOUGH, Hartford City, Ind. Filed Feb. 3, 1922.

DUX INHALO SALVE

No claim made to the word "Salve" apart from that shown in the accompanying drawing.

Particular description of goods.—Salve for Acute Colds, Acute Chest Colds (Pneumonia), Bronchitis, Influenza, Nasal Catarrh, Nondiphtheritic Sore Throat, Spasmodic Croup, Tonsillitis, Whooping Cough, Burns, Bites, Bruises, Cuts, Rheumatic Pains.
Claims use since October, 1919.

Ser. No. 159,318. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE INTERNATIONAL COMPANY, Baltimore, Md. Filed Feb. 14, 1922.

VELVET MILK

No claim is made to the word "Milk" apart from the mark as shown.

Particular description of goods.—Prepared, Powdered, and Skimmed Milk for Bakers' and Confectioners' Use.

Claims use since Jan. 25, 1922.

Ser. No. 159,627. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) STANDARD FELT COMPANY, West Alhambra, Calif. Filed Feb. 20, 1922.

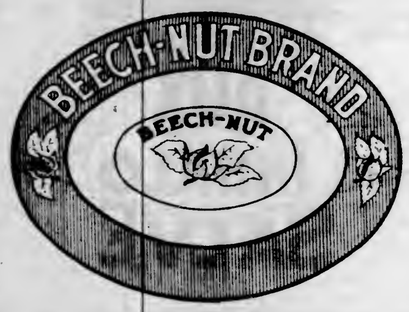
Woolambra

The lining appearing on the drawing does not indicate color, but is merely put in for the purpose of shading.

Particular description of goods.—Rugs, Carpets, Floor and Door Mats, Floor Runners, Stair Carpets and Coverings, Porch Coverings, Automobile Mats, and Automobile Floor Coverings, All of Which are Made of Felt.

Claims use since Feb. 4, 1922.

Ser. No. 159,687. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed Feb. 23, 1922.



The color lines as indicated are intended to show the red oval band. The word "Brand" is disclaimed apart from the other features of the mark as shown.

Particular description of goods.—Ice Cream.

Claims use since Jan. 31, 1922.

Ser. No. 160,514. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN SPERRAS, Cincinnati, Ohio. Filed Mar. 10, 1922.



The word "Cake" appearing on the drawing is not claimed apart from the other features of the mark.

Particular description of goods.—Confection Consisting of a Chocolate-Coated Cake of Ice Cream.

Claims use since Feb. 14, 1922.

Ser. No. 160,633. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PFAFFMANN EGG NOODLE COMPANY, Cleveland, Ohio. Filed Mar. 13, 1922. Under ten-year proviso.

SUPERIOR

Particular description of goods.—Noodles, Vermicelli, and Similar Paste Products.

Claims use since about 1873.

Ser. No. 161,590. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) TOCH BROTHERS, assignor to Toch Brothers, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 31, 1922.

Ship Koat

Particular description of goods.—Ready-Mixed Paints and Paint Enamels.

Claims use since about February, 1908.

Ser. No. 161,591. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) TOCH BROTHERS, assignor to Toch Brothers, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 31, 1922.

Truk Koat

Particular description of goods.—Paints in Ready-Mixed or Paste Form and Paint Enamels.

Claims use since about April, 1908.

Ser. No. 161,938. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTHWESTERN BAKERS & CONFECTIONERS CO., Minneapolis, Minn. Filed Apr. 8, 1922.

Bestyet

Particular description of goods.—Acetic Acid; Fruit Butters (Apple, Peach, and Plum); Butter Flavoring, Cake Mix, Chocolate, Chop Suey, Citron (Drained and Cured), Cocoa, Coconut (Packaged), Coconut-Bar Flour, Coconut Oil, Cocoa Paste; Coloring for Food Purposes (Liquid, Paste, and Powdered); Cornstarch, Creamo Ice-Cream Powder, Currants, Doughnut Flour and Mixture, Egg Substitutes (Albumen and Whole), Emulsions for Food Purposes, Essential Oils for Food Purposes, Extracts for Use in Preparing Food, Flavoring for Use in Preparing Food; Fruits (Canned, Crushed, Evaporated, and Preserved); Gelatin, Ginger, Ice-Cream Powder, Icing Creams, Icing Sugar, Jams, Jellies, Marshmallow Powder, Milk (Powdered), Mincemeat, Molasses, Nut Meats; Peel (Lemon, Orange and Citron); Pepper; Fruit and Mincemeat Pie Fillings; Raisins; Seeds (Anise, Caraway, and Poppy); Spices, Sugars, Sirup for Food Purposes, Vegetable Oils for Food Purposes, and Whipping Powder.

Claims use since about Oct. 1, 1893.

Ser. No. 162,353. (CLASS 39. CLOTHING.) MAX SHRAGE, doing business as Shrage & Pines, New York, N. Y. Filed Apr. 15, 1922.

GOTHEM

The drawing is lined to indicate red.

Particular description of goods.—Blouses, Undershirts Made of Knitted and Textile Fabrics, and Pyjamas.

Claims use since Mar. 30, 1922.

Ser. No. 162,561. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALTON L. MILLER, doing business as Charles N. Miller Co., Boston, Mass. Filed Apr. 19, 1922.



Particular description of goods.—Candies.

Claims use since December, 1919.

Ser. No. 162,712. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GUST ANASTOPOULOS, San Francisco, Calif. Filed Apr. 22, 1922.

SPLENDID

Particular description of goods.—Tomato Paste.

Claims use since Jan. 20, 1922.

Ser. No. 163,213. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) BRISTOL & BARBER CO., INC., New York, N. Y. Filed May 2, 1922.

THE RITZ

Particular description of goods.—Phonographs.

Claims use since Apr. 28, 1922.

Ser. No. 163,382. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAVIS & LAMB, Newburyport, Mass. Filed May 5, 1922.

MELLONUT

Particular description of goods.—Salted Peanuts (Jumbos), Salted Peanuts (Splits), Salted Peanuts (Spanish), and Peanut Butter.

Claims use since Mar. 10, 1922.

Ser. No. 163,553. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) TEUSCHER & SON MACHINERY SUPPLY CO., St. Louis, Mo. Filed May 8, 1922.



No claim is made to the representation of a belt fastener, the trade-mark consisting of the number, shape, and arrangement of the rivets on and in connection with the peculiar and particular shaped fastening plate, all of which is shown.

Particular description of goods.—Automobile Fan Belts Made of Either Fabric or Rubberized Fabric.

Claims use since Nov. 1, 1921.

Ser. No. 163,728. (CLASS 39. CLOTHING.) AGNES BROTHERS, New York, N. Y. Filed May 12, 1922.

AGBRO-MINK

Applicant hereby disclaims the word "Mink" apart from the mark as shown.

Particular description of goods.—Imitation-Mink-Fur Coats.

Claims use since Feb. 2, 1922.

Ser. No. 163,975. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed May 17, 1922.



No claim is made to the word "Brand."

Particular description of goods.—Zinc Oxide Used for Ceramic Glazing—Namely, of Iron and Steel in the Manufacture of Rubber and Insulating Compounds, Tannin, Match and Ink Manufacturing, and in the Making of Oilcloth and Linoleum.

Claims use since May 5, 1922.

Ser. No. 163,976. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed May 17, 1922.



No claim is made to the word "Brand."

Particular description of goods.—Zinc Oxide Used for Ceramic Glazing—Namely, of Iron and Steel in the Manufacture of Rubber and Insulating Compounds, Tannin, Match and Ink Manufacturing, and in the Making of Oilcloth and Linoleum.

Claims use since May 5, 1922.

Ser. No. 164,502. (CLASS 39. CLOTHING.) INDIAN HEAD SHOE CO., Marlboro, Mass. Filed May 25, 1922.



Particular description of goods.—Misses' and Children's Leather Shoes, and Leather Soles for Shoes.

Claims use since June, 1920.

Ser. No. 164,645. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JANSEN & PRETZFELD, INC., New York, N. Y. Filed May 29, 1922.

SEA FOME

Particular description of goods.—Silks in the Piece.

Claims use since May 19, 1922.

Ser. No. 165,036. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. LOUIS ROWSEY, Olive Hill, Ky. Filed June 5, 1922.



TAH

The portrait shown is that of applicant.

Particular description of goods.—Preparation for the Treatment of Tuberculosis, Asthma, and Hay Fever.

Claims use since November, 1921.

Ser. No. 165,083. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IDA B. JEFFERSON, Longview, Tex. Filed June 6, 1922.



The trade-mark consists of a profile portrait of the applicant.

Particular description of goods.—Liniment for External Use for Rheumatism or Sore Joints, for Corns, and for Toothache, Hair Grower, Face Bleach, Pressing Oil, Tonic Made from Roots and Herbs and Intended for General Use, a Pile Salve, and a Liquid Shampoo.

Claims use since Oct. 1, 1921.

Ser. No. 165,220. (CLASS 32. FURNITURE AND UPHOLSTERY.) C. B. WORTHEN CO., Cleveland, Ohio. Filed June 8, 1922.

ELECTRIC SUSAN

Particular description of goods.—Tables and Other Forms of Supports for Holding or Supporting Electric Heating Appliances, Such as Toasters, Waffle Irons, Percolators, and Electric Stoves.

Claims use since about May 1, 1922.

Ser. No. 165,490. (CLASS 39. CLOTHING.) NATH'L FISHER & Co., New York, N. Y. Filed June 14, 1922.

Dolly Preston

Particular description of goods.—Boots, Shoes, and Slippers Made in Major Part of Leather, Fabric, or Rubber.

Claims use since Dec. 15, 1917.

Ser. No. 165,663. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SZALAI BELA, doing business as "Cito" Gyogyszer es Vegyeszeti Laboratorium, Budapest, Hungary. Filed June 19, 1922.

FAGIFOR

Particular description of goods.—Medicines Used in the Treatment of Bronchitis, Tubercular Diseases, and Diseases Generally of the Mouth, Throat, and Lungs.

Claims use since about Feb. 21, 1921.

Ser. No. 165,818. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) REID, MURDOCH & Co., Chicago, Ill. Filed June 21, 1922.

FARM HOUSE



The mark has portions colored red and blue.

Particular description of goods.—Canned Fruits, Preserved Fruits, and Canned Vegetables, Canned Sea Foods, Canned Soups, Bouillon Cubes, Relishes, Canned Milk, Tea, Cocoa, Vinegar, Mincemeat, Cheese, Nut Meats, Sirup, Dried Fruits and Vegetables, and Cereals—Namely, Hominy, Rice, Oats, Potato Flour, Rice Flour, Tapioca, Wheat Bran, Pop Corn, and Cornstarch for Food Purposes.

Claims use since 1900.

Ser. No. 166,386. (CLASS 15. OILS AND GREASES.) MARINE OIL COMPANY, LTD., New Orleans, La. Filed July 1, 1922.

VELVA

Particular description of goods.—Cup and Axle Grease.
Claims use since July, 1902.

Ser. No. 166,729. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ERNEST T. WIX, doing business as Wixated Iron Co., Sioux City, Iowa. Filed July 10, 1922.

WIXATED-IRON

Particular description of goods.—General Tonics.
Claims use since about Mar. 1, 1917.

Ser. No. 167,859. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WHITWORTH & MITCHELL, LIMITED, Manchester, England. Filed Aug. 5, 1922.

"TRICOLINE"

Particular description of goods.—Cotton Piece Goods.
Claims use since Apr. 12, 1916.

Ser. No. 168,113. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ROBERT M. LUCAS, Chicago, Ill. Filed Aug. 11, 1922.



Particular description of goods.—Paints or Cements in the Nature of Paints for Coating Roofs, Walls, or Other Parts of Houses, Cars, Bridges, or Other Structures Exposed to the Action of the Weather or the Effects of Acid Fumes or the Like.
Claims use since about Sept. 1, 1921.

Ser. No. 168,114. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ROBERT M. LUCAS, Chicago, Ill. Filed Aug. 11, 1922.

BLACK BULL

Particular description of goods.—Paints or Cements in the Nature of Paints for Coating Roofs, Walls, or Other Parts of Houses, Cars, Bridges, or Other Structures Exposed to the Action of the Weather or the Effects of Acid Fumes or the Like.
Claims use since about Sept. 1, 1921.

Ser. No. 168,115. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ROBERT M. LUCAS, Chicago, Ill. Filed Aug. 11, 1922.



CONTINENTAL CAR CEMENT

I do not claim the words "Car Cement" apart from the mark shown in the drawing.
Particular description of goods.—Paints or Cements in the Nature of Paints for Coating Roofs, Walls, or Other Parts of Houses, Cars, Bridges, or Other Structures Exposed to the Action of the Weather or the Effects of Acid Fumes or the Like.
Claims use since about Sept. 1, 1921.

Ser. No. 168,431. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE WILLIAM PRYM COMPANY, LIMITED, Stolberg, Germany. Filed Aug. 18, 1922.

„Aida"

Particular description of goods.—Bone Stilettos, Hooks and Eyes, Corset Eyes, Double Eyes, Shoe Eyes, Snap Fasteners, Shoe Buckles not Made of Precious Metals, Waistband Clasps, Waist and Corset Clasps; Snap Fasteners on Tape and Hooks and Eyes on Tape for Fastening Waists, Skirts, Plackets, Dresses, and Other Articles of Clothing; Waist-Belt Clasps, Large Snap Fasteners Used for Supporting Articles of Clothing, Shoe Buttoners, Glove Buttoners, Thimbles and Buttons not Made of Precious Metals, Collar Supporters, Sewing and Knitting Needles, Pins Without Ornamentation and not Made of Precious Metals, and Ornamented Hairpins not Made of Precious Metals.
Claims use since June, 1922.

Ser. No. 168,582. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRIETTE LEYS, Paris, France. Filed Aug. 22, 1922.

CRÈME IDÉALE AU SUC DE PÊCHES

All of the wording appearing on the drawing with the exception of the words "Creme Ideale" is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Skin Cream.
Claims use since June, 1901.

Ser. No. 168,707. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) H. H. BARTON AND SON CO. INC., Philadelphia, Pa. Filed Aug. 26, 1922.

ELECTRIC

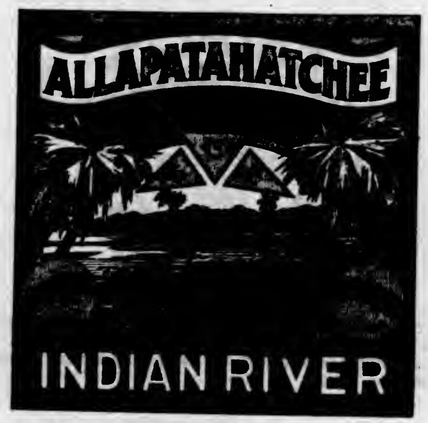
Particular description of goods.—Abrasive Papers or Cloths.
Claims use since about Sept. 8, 1921.

Ser. No. 168,910. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBERT JAMES ADAMS, New York, N. Y., assignor to Henry H. Waters, New York, N. Y. Filed Aug. 31, 1922.

SOROCHIA

Particular description of goods.—Preparation for Use as a Preventive of Rheumatism and for Neutralizing Uric Acid.
Claims use since July 1, 1917.

Ser. No. 169,334. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STANDARD GROWERS EXCHANGE, Orlando, Fla. Filed Sept. 11, 1922.



No claim is made herein to the registration of the words "Indian River," "Alligator Creek," and "1 3-5 Bush. Net" apart from the mark shown in the drawing. The letters in the name "Allapatahatchee" are green with a blue border on a solid white background having a gold border. The alligator is dark green, gold, and white. The vertical lines are green. The letters "S G E" are gold set in a triangle having a gold border. The trees are green, the leaves being shaded. The hills and the water are light and dark green. The words "Alligator Creek" are dark green. The name "Indian River" is white with a green border on a blue background having a light green border. All of the stipple portion of the drawing is gold.
Particular description of goods.—Fresh Fruits and Vegetables.
Claims use since 1903.

Ser. No. 169,486. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KWUSH-RU COMPANY, Los Angeles, Calif. Filed Sept. 15, 1922.



No claim is made to the exclusive use of the descriptive words "The Burning Perfume" apart from the mark shown on the drawing.
Particular description of goods.—Perfume and Incense.
Claims use since July 31, 1922.

Ser. No. 169,544. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. GOODMAN & SONS, INC., New York, N. Y. Filed Sept. 16, 1922.



No claim is made to the words "100% Whole Wheat" and "Elbow Macaroni" apart from the mark as shown.

Particular description of goods.—Alimentary Paste Products.

Claims use since Aug. 26, 1922.

Ser. No. 169,652. (CLASS 39. CLOTHING.) SCOT KNIT HOSIERY CO., Harrisburg, Pa. Filed Sept. 18, 1922.

SCOT KNIT



The word "Knit" does not form a part of the registration sought apart from the mark shown in the accompanying drawing. The picture shown in the drawing is fanciful.

Particular description of goods.—Hosiery.

Claims use since July 1, 1922.

Ser. No. 169,723. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AUGUSTUS LOWREY, Okmulgee, Okla. Filed Sept. 20, 1922.

Glazo

Particular description of goods.—Metal, Pottery, and Glass Polishing Compounds.

Claims use since May 1, 1922.

Ser. No. 169,854. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) HARRY C. HOWER, Chicago, Ill. Filed Sept. 23, 1922.



Particular description of goods.—Pneumatic Tires and Tubes.

Claims use since Aug. 11, 1922.

Ser. No. 170,210. (CLASS 38. PRINTS AND PUBLICATIONS.) WILLIAM CHANDLER PEAK, Chicago, Ill. Filed Oct. 2, 1922.

Fōto-tell

Particular description of goods.—Series of Books in a Course of Dancing Instructions.

Claims use since Sept. 11, 1922.

Ser. No. 170,469. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALEXANDER BROOKS, doing business as A. Brooks Company, San Francisco, Calif. Filed Oct. 9, 1922.



Particular description of goods.—Sandwiches.

Claims use since Sept. 1, 1922.

Ser. No. 170,872. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JULIUS D'ORIO, doing business as Advertoshare Co., Highgrove, Calif. Filed Oct. 18, 1922.

ADVERTOSHARE

Particular description of goods.—A Checker-Game Coupon Punch Board.

Claims use since Aug. 15, 1922.

Ser. No. 171,108. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUN MAID RAISIN GROWERS, Fresno, Calif. Filed Oct. 23, 1922.

GOLDEN SULTANINAS

Particular description of goods.—Raisins.

Claims use since Sept. 1, 1922.

Ser. No. 171,242. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ERNEST S. BAZLEY, doing business as Bazley Markets, Chicago, Ill. Filed Oct. 26, 1922.

JUNEDALE

Particular description of goods.—Nut Oleomargarine.

Claims use since Apr. 13, 1922.

Ser. No. 171,444. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EDWIN E. BERLINER & Co., New York, N. Y. Filed Nov. 1, 1922.

LYKSILK

Particular description of goods.—Cotton Piece Goods.

Claims use since June 24, 1922.

Ser. No. 171,994. (CLASS 39. CLOTHING.) E. H. HORWOOD & Co., Hoboken, N. J., and New York, N. Y. Filed Nov. 14, 1922.

LITTLE BEAUTY

Particular description of goods.—Children's Slips.

Claims use since about June, 1918.

Ser. No. 171,996. (CLASS 39. CLOTHING.) E. H. HORWOOD & Co., Hoboken, N. J., and New York, N. Y. Filed Nov. 14, 1922.

LITTLE BEAUTY

Particular description of goods.—Underwaist Union Suits of Knitted Fabric and Underwaist Union Suits of Textile Fabric.

Claims use since July 5, 1922.

Ser. No. 172,006. (CLASS 39. CLOTHING.) NICHOLSON'S RAINCOAT CO., LIMITED, St. Albans, Eugland. Filed Nov. 14, 1922. Under ten-year proviso.

N & C
Nicholson & Co

Particular description of goods.—Overcoats and Suits for Men, Women, and Juvenlles in Unproofed Cloths.

Claims use since Dec. 27, 1894.

Ser. No. 173,839. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WM. A. LIBBY, Milwaukee, Wis., assignor to Libby Chemical Company, West Allis, Wis., a Corporation of Wisconsin. Filed Dec. 26, 1922.

W. A. Libby

The trade-mark comprises a facsimile of my signature.

Particular description of goods.—Medicated Tablets for Headache, Neuralgia, and Minor Pains, and Medicated Capsules for Colds, La Grippe, Headache, Malaria, Etc.

Claims use since Dec. 21, 1922.

Ser. No. 174,247. (CLASS 39. CLOTHING.) KOPS BROS., New York, N. Y. Filed Jan. 6, 1923.

"Sonia"

Particular description of goods.—Corsets, Brassières, and Underwear of Textile Fabrics for Women.

Claims use since Aug. 1, 1922.

Ser. No. 174,587. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH NATHAN & Co. LIMITED, London, England. Filed Jan. 13, 1923.



No claim made to the exclusive use of the phrase "Builds Bonnie Babies."

Particular description of goods.—Infants' and Invalids' Food.

Claims use since June, 1919.

Ser. No. 174,903. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LANOIL SYSTEM LTD., New York, N. Y. Filed Jan. 22, 1923.

LANOIL

Particular description of goods.—Liquid Preparations for the Hair, Hair-Waving Fluids, Hair-Curling Fluids, Hair Tonics and Softening Preparations, Preparations for Improving and Facilitating the Dressing of the Hair, Hair Lotions and Gloss, and Hair Pomades and Pomatums.

Claims use since January, 1922.

Ser. No. 175,016. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE INTERNATIONAL COMPANY, Baltimore, Md. Filed Jan. 24, 1923.

VELVET

Particular description of goods.—Food-Flavoring Extracts, Mincemeat, Almond Paste, Preserved Fruits, Cocoa, Chocolate Coating, and Spices.

Claims use since 1914.

Ser. No. 175,062. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN BLOCKI & SON, INC., Chicago, Ill. Filed Jan. 25, 1923.

Flower-in-the-Bottle

Particular description of goods.—Perfumes.

Claims use since Jan. 1, 1907.

Ser. No. 175,987. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELIAS E. HELLER, doing business as Heller Drug Company, Baltimore, Md. Filed Feb. 13, 1923.



The trade-mark consists of a portrait of Elias E. Heller.

Particular description of goods.—Liniment for External Use of Man or Beast for Rheumatism, Pneumonia, Quinsy, Sprains, Bruises, Stiffening Joints, Soreness of Muscles, Neuralgia, Stings of Insects, Sore Throat, Burns, Callous Feet, Lumbago, Slight Cuts, and Sciatica.

Claims use since June 28, 1905.

Ser. No. 176,056. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARCADY FARMS MILLING COMPANY, Chicago, Ill. Filed Feb. 15, 1923.

VITAVIM

Particular description of goods.—Stock Feed and Poultry Feed Comprising Feed for Poultry and Live Stock.

Claims use since about January, 1923.

Ser. No. 176,377. (CLASS 43. THREAD AND YARN.) BERNHARD ULMANN CO. INC., New York, N. Y. Filed Feb. 20, 1923.

ARTKNITTING

Particular description of goods.—Yarns for Knitting, Crocheting, and Art Needlework.

Claims use since January, 1917.

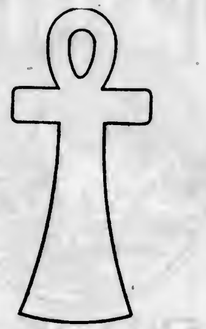
Ser. No. 176,381. (CLASS 43. THREAD AND YARN.) BERNHARD ULMANN CO. INC., New York, N. Y. Filed Feb. 20, 1923.

MARABOU

Particular description of goods.—Hand-Knitting Wool Yarns.

Claims use since May, 1922.

Ser. No. 176,821. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FOOD PRODUCTS LTD., London, England. Filed Mar. 2, 1923.



Particular description of goods.—Meat and Milk Essence, Beverage Chocolate, Eating Chocolate, Pea Soup, Gruel, Invalid Food, Jellies, Bread, Biscuit, and Flour.

Claims use since January, 1922.

Ser. No. 176,907. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MOORE & Co. INC., Worcester, Mass. Filed Mar. 3, 1923.



No claim made to the words "Hand Soap" apart from the mark shown.

Particular description of goods.—Hand Soap.

Claims use since 1912.

Ser. No. 177,113. (CLASS 39. CLOTHING.) WILLIAM J. SMYTH, doing business as De Luxe Hosiery Company, Chicago, Ill. Filed Mar. 7, 1923.



The diagonally-lined background is for the purpose of shading only. I hereby disclaim the words "Hosiery," "Brand," and "Chicago, Ill."

Particular description of goods.—Hosiery.

Claims use since Feb. 1, 1923.

Ser. No. 177,422. (CLASS 39. CLOTHING.) GEO. J. BEETMAN SHOE CO., INC., Chicago, Ill. Filed Mar. 14, 1923.



Applicant disclaims the exclusive right to the representation of the slipper and the word "Styles" except as used and shown herein.

Particular description of goods.—High and Low Cut Shoes Made of Leather, Fabric, and Combinations of Leather and Fabric.

Claims use since Sept. 1, 1922.

Ser. No. 177,466. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE AMERICAN COTTON OIL COMPANY, Union Township, near Guttenberg, N. J. Filed Mar. 15, 1923.

Union Extra C

Particular description of goods.—Soap Stock.
Claims use since 1867.

Ser. No. 177,469. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ANITA M. BALDWIN, Santa Anita, Calif. Filed Mar. 15, 1923.

ANOAKIA

Particular description of goods.—Live Stock, Including Dogs—Namely, Airedales, Russian Wolfhounds, English Bulldogs, Old English Sheep Dogs, and Wire-Haired Fox Terriers.
Claims use since 1915.

Ser. No. 177,850. (CLASS 39. CLOTHING.) LA CROSSE RUBBER MILLS CO., La Crosse, Wis. Filed Mar. 22, 1923.

THE BOSS FROM LA CROSSE

No claim is made for the words "From La Crosse" apart from the mark shown by the drawing.
Particular description of goods.—Rubber Heels for Shoes, Rubber Soled and Heeled Shoes, and Leather Shoes.
Claims use since Jan. 8, 1923.

Ser. No. 177,884. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIS NORTON & CO., North Topeka, Kans. Filed Mar. 22, 1923.

WHITE MULE



PLENTY OF KICK

In the drawing that portion of the trade-mark representing the sky is lined to indicate a blue coloration.
Particular description of goods.—Wheat Flour.
Claims use since Mar. 1, 1923.

Ser. No. 178,061. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) POLY-NAISE COMPANY, Watertown, N. Y. Filed Mar. 26, 1923.

Tomato-naise

No claim is made to the exclusive use of the word "Tomato."
Particular description of goods.—A Food Product—a Combination of Catchup, Tomatoes, and Mayonnaise.
Claims use since about Mar. 15, 1923.

Ser. No. 178,301. (CLASS 7. CORDAGE.) STUARTS & JACKS, LIMITED, Musselburgh, Scotland. Filed Mar. 29, 1923.



Particular description of goods.—Twines for Fishing Nets.
Claims use since November, 1910.

Ser. No. 178,391. (CLASS 39. CLOTHING.) KANNALLY-WICK CORPORATION, Highland, Ill. Filed Mar. 31, 1923.

"BOBS"

Particular description of goods.—Leather Shoes.
Claims use since Aug. 15, 1922.

Ser. No. 178,425. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE AMERICAN COTTON OIL COMPANY, New York, N. Y. Filed Apr. 2, 1923.

THE AMERICAN COTTON OIL CO.
SIERRA

Particular description of goods.—Hard Fats and Cottonseed Oils.
Claims use since Mar. 2, 1923.

Ser. No. 178,492. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COLORADO CONDENSED MILK CO., Fort Lupton, Colo. Filed Apr. 3, 1923.

COLUMBINE



Particular description of goods.—Evaporated and Condensed Milk.
Claims use since 1902.

Ser. No. 178,549. (CLASS 38. PRINTS AND PUBLICATIONS.) BROWNING AND ATKIN, San Diego, Calif. Filed Apr. 4, 1923.

ROSEBEN HANDICAP



Particular description of goods.—Racing Programs.
Claims use since Jan. 1, 1916.

Ser. No. 178,696. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) HEDGES & BROTHER, Newark, N. J. Filed Apr. 6, 1923.



The word "Valve" is hereby disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Flush Valves, Urinal Valves, Urinal Spreaders, Urinal Strainers, Shower Strainers, Mufflers, Shower Mixing Valves, and Shut-Off Valves and Cocks.
Claims use since December, 1911.

Ser. No. 178,758. (CLASS 37. PAPER AND STATIONERY.) MACLEAN DRUG COMPANY, Chicago, Ill. Filed Apr. 7, 1923.

MacLean's

Particular description of goods.—Fountain Pens, Penholders, Pen Points, Lead Pencils, Magazine Pencils, Pencil Clips, Hand Blotters, Paper Blotters, Pencil Sharpeners, Wrapping Paper, Wax Paper, Tissue Paper, Writing Paper, Points for Magazine Pencils, Correspondence Envelopes, Drawing Paper, Inkwells, Tracing Paper, Writing Tablets, Pencil-Point Protectors, Knife Erasers.
Claims use since November, 1918.

Ser. No. 178,845. (CLASS 39. CLOTHING.) HOLTITE MANUFACTURING COMPANY, Baltimore, Md. Filed Apr. 9, 1923.

SPUR

Particular description of goods.—Rubber Heels for Shoes.
Claims use since Feb. 8, 1923.

Ser. No. 178,929. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE THEODOR KUNDTZ COMPANY, Cleveland, Ohio. Filed Apr. 10, 1923.

ECLIPSE

Particular description of goods.—Phonograph Cabinets, Dower Chests, Cedar Chests, Seats for Schools, Churches, Auditoriums, and Public Places.
Claims use since Dec. 7, 1922.

Ser. No. 179,231. (CLASS 43. THREAD AND YARN.) SMITH & DOVE MANUFACTURING CO., Andover, Mass. Filed Apr. 16, 1923.

STITCHWELL



Particular description of goods.—Cotton Thread.
Claims use since 1905.

Ser. No. 179,257. (CLASS 38. PRINTS AND PUBLICATIONS.) ART-AD STUDIO, Mansfield, Ohio. Filed Apr. 17, 1923.

ART-AD STUDIO

Particular description of goods.—Folders, Circulars, Leaflets, Pamphlets, Newspaper and Directory Advertisements, and Like Advertising Matter Sold to the Trade as Such.
Claims use since May 11, 1919.

Ser. No. 179,347. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRISON F. ATCHLEY, Stockton, Calif. Filed Apr. 19, 1923.

GOLD DOLLAR OINTMENT
G DOLLAR L D
FOR BLOOD POISON
SCALDS, BURNS, BRUISES
CUTS, CARBUNCLES
AND OLD SORES.
"Greatest Healer on Earth"
PRICE 50¢, $1.00
STOCKTON, CALIFORNIA.

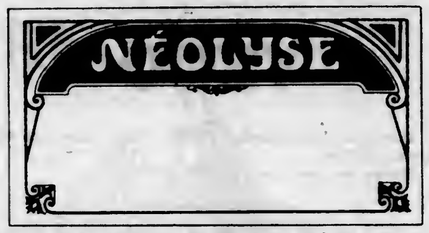
All wording is disclaimed except the words "Gold Dollar."
Particular description of goods.—Ointment or Salve.
Claims use since Mar. 13, 1923.

Ser. No. 179,388. (CLASS 2. RECEPTACLES.) GEORGE W. WOODRUFF, doing business as Woodruff Manufacturing Co., Winder, Ga. Filed Apr. 19, 1923.



Particular description of goods.—Empty Bags or Nets for Containing Laundry.
Claims use since January, 1918.

Ser. No. 179,465. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GABRIEL FERMÉ, Paris, France. Filed Apr. 21, 1923.



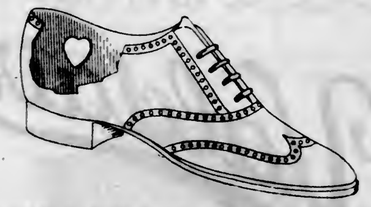
The trade mark consists of the design shown and of the invented word "Néolyse."
Particular description of goods.—Patent Medicine Intended to be Used in the Treatment and Prophylaxis of Cancer.
Claims use since Apr. 28, 1919.

Ser. No. 179,612. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) CHAS. HENRY LONGBOTTOM, New York, N. Y. Filed Apr. 24, 1923.

Longbottom

The mark as displayed on the goods is an approximate facsimile of applicant's signature.
Particular description of goods.—Pipes and Cigar Holders.
Claims use since January, 1922.

Ser. No. 179,710. (CLASS 39. CLOTHING.) CAMMEYER, New York, N. Y. Filed Apr. 26, 1923.



No claim is made to the pictorial representation of a shoe except in connection with the other features of the mark.
Particular description of goods.—Leather Shoes.
Claims use since Jan. 31, 1923.

Ser. No. 179,744. (CLASS 39. CLOTHING.) ROYAL WORCESTER CORSET COMPANY, Worcester, Mass. Filed Apr. 26, 1923.

Round-U

Particular description of goods.—Corsets, Corset Waists, Brassières, Bandeaux, and Belts Used as Ordinary Clothing.
Claims use since Apr. 6, 1923.

Ser. No. 180,052. (CLASS 12. CONSTRUCTION MATERIALS.) THE CONTINENTAL ROOFING & MANUFACTURING CO., Highlandtown, Baltimore, Md. Filed May 2, 1923.

APEX

Particular description of goods.—A Roofing Material, a Sheet of Porous Felt Which has Been Impregnated with a Bituminous Waterproof Compound Mainly Composed of Asphalt, and Which Sheet is Subsequently Surfaced on One or Both Sides with a Bitumen Compound or with Talc or Crushed Slate Embedded in the Surface.
Claims use since about January, 1923.

Ser. No. 180,135. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIS H. LOWE, doing business as The Kala Company, Cambridge, Mass. Filed May 3, 1923.

CREAM
CLAY

Particular description of goods.—Beauty Clays.
Claims use since Feb. 1, 1923.

Ser. No. 180,260. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE AKRON GROCERY CO., Akron, Ohio. Filed May 7, 1923.

Betsy Ross

Particular description of goods.—Coffee, Olive Oil, and Sugar.
Claims use since June 25, 1901, on coffee; since Apr. 10, 1923, on olive oil and sugar.

Ser. No. 180,280. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FLORENCE I. HALSEY, New York, N. Y. Filed May 7, 1923.



No claim is made to the word "Marmalade" apart from the mark shown. In said drawing, as to color, the shade lines of the circular portion of the figure indicate yellow, while the shade lines of the leaflike portion of the figure indicate green.

Particular description of goods.—Marmalade.
Claims use since about January, 1922.

Ser. No. 180,429. (CLASS 39. CLOTHING.) F. L. HEIM & SON, San Francisco, Calif. Filed May 10, 1923. Under ten-year proviso.

Heim's
Orthopedic

Particular description of goods.—Boots and Shoes of Leather, Fabric, and Combinations of Cloth and Leather.
Claims use since Nov. 1, 1893.

Ser. No. 180,442. (CLASS 39. CLOTHING.) PAULINE MILLER, doing business as Pauline Miller Co., San Francisco, Calif. Filed May 10, 1923.



The word "Hats" appearing on the drawing is disclaimed apart from the mark as shown.

Particular description of goods.—Ladies' Hats.
Claims use since about Feb. 1, 1923.

Ser. No. 180,498. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) EUGENE ROPP, Beaume-les-Dames, France. Filed May 11, 1923.

YECO

Particular description of goods.—Pipes, Cigar and Cigarette Holders.
Claims use since Oct. 1, 1921.

Ser. No. 180,586. (CLASS 39. CLOTHING.) CARSON PIRIE SCOTT & CO., Chicago, Ill. Filed May 14, 1923.



Particular description of goods.—Men's, Women's, and Children's Shoes of Leather and Leather and Fabric.
Claims use since August, 1922.

Ser. No. 180,674. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VALLEY DAIRY PRODUCTS COMPANY, Appleton, Wis. Filed May 15, 1923.

Valclair

Particular description of goods.—Certain Dairy Products—viz, Butter.
Claims use since May 5, 1923.

Ser. No. 180,808. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) P. G. ATLANTIC TOY MFG. CO., New York, N. Y. Filed May 18, 1923.

HOT DOG

Particular description of goods.—Toy Animals.
Claims use since Apr. 10, 1923.

Ser. No. 180,880. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL PACKING CORPORATION, Ogden, Utah. Filed May 19, 1923.

RED MOUNT



The lining in the drawing indicates the color red.

Particular description of goods.—Canned Vegetables, Canned Tomato Purée, and Tomato Catchup.
Claims use since Jan. 8, 1923.

Ser. No. 180,925. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM B. FINK, Clarendon, Va. Filed May 21, 1923.

REWARD

Particular description of goods.—Bread.
Claims use since May 2, 1923.

Ser. No. 180,930. (CLASS 39. CLOTHING.) THE HANNAHSONS SHOE COMPANY, Haverhill, Mass. Filed May 21, 1923.



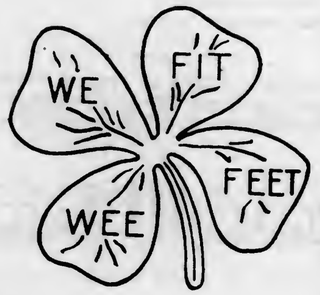
Particular description of goods.—Leather and Fabric Shoes.
Claims use since Jan. 1, 1923.

Ser. No. 180,950. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TELL CITY CREAMERY COMPANY, Tell City, Ind. Filed May 21, 1923.

MAPLE GROVE

Particular description of goods.—Butter.
Claims use since January, 1922.

Ser. No. 180,974. (CLASS 39. CLOTHING.) FOSTER RYAN SHOE CO., Philadelphia, Pa. Filed May 22, 1923.



Particular description of goods.—Ladies' Shoes Made of Leather, Fabric, and Combination of Leather and Fabric.
Claims use since Sept. 1, 1921.

Ser. No. 181,004. (CLASS 39. CLOTHING.) THE BEITMANN-DUNLAP COMPANY, Cincinnati, Ohio. Filed May 23, 1923.



Particular description of goods.—Leather Boots and Shoes.
Claims use since Jan. 15, 1923.

Ser. No. 181,121. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JAMES GALE HUBBELL, New Orleans, La., assignor to Pinene Chemical Company; Incorporated, New Orleans, La., a Corporation of Louisiana. Filed May 25, 1923.

PINENE



THE HEALTH SENTINEL

Particular description of goods.—Preparation of Oil of Pine Used Distinctively as a Cleaner and Remover of Dirt from All Surfaces.
Claims use since Apr. 15, 1923.

Ser. No. 181,150. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) SOUTHERN YARN EXCHANGE, Baltimore, Md. Filed May 25, 1923.

Simple Art Stitch ARKHST Art Needlework

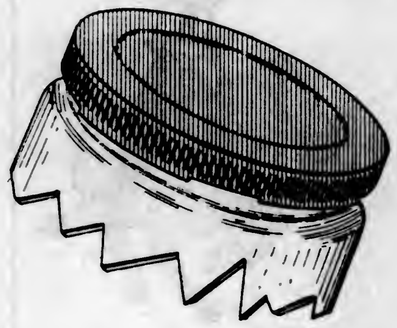
Without waiving any rights at common law applicant disclaims any attempt to cover in this application the words "Simple Art Stitch" and "Art Needlework" except in the precise relation and association in which they are shown in the mark as a whole.
Particular description of goods.—Art Needlework—Namely, Textile Fabrics Which Have Been Stamped Ready for Embroidery.
Claims use since May 1, 1923.

Ser. No. 181,152. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) SOUTHERN YARN EXCHANGE, Baltimore, Md. Filed May 25, 1923.

Easy Stitch ARKAST Art Needlework

Without waiving any rights at common law applicant disclaims any attempt to cover in this application the words "Easy Stitch" and "Art Needlework" except in the precise relation and association in which they are shown in the mark as a whole.
Particular description of goods.—Art Needlework—Namely, Textile Fabrics Which Have Been Stamped Ready for Embroidery.
Claims use since May 1, 1923.

Ser. No. 181,191. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) C. M. KIMBALL COMPANY, Winthrop, Mass. Filed May 26, 1923.



A red cap or cover for the container in which the polish is sold, as shown in the accompanying drawing, the cap or cover being colored red; no claim made to the representation of the container apart from the mark shown.
Particular description of goods.—Silver Polish.
Claims use since Apr. 15, 1923.

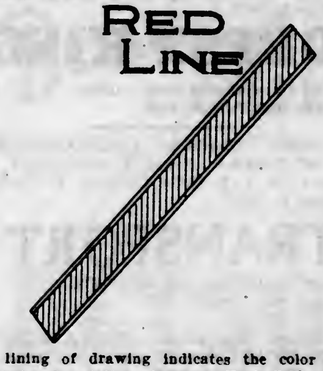
Ser. No. 181,192. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) C. M. KIMBALL COMPANY, Winthrop, Mass. Filed May 26, 1923.



No claim made to the representation of the container apart from the mark shown; a red cap or cover for the container in which the polish is sold.
Particular description of goods.—Stove Polish.
Claims use since Aug. 19, 1919.

Ser. No. 181,275. (CLASS. 46. FOODS AND INGREDIENTS OF FOODS.) GROCERS SPECIALTY CO., Los Angeles, Calif. Filed May 28, 1923.

RED LINE



The lining of drawing indicates the color red.
Particular description of goods.—Fruit Jellies, Vinegar, Fruit Jams, Honey, Marshmallow Crème, and Mayonnaise.
Claims use since Jan. 2, 1923.

Ser. No. 181,309. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) POKODOT CEREAL COMPANY, Fargo, N. Dak. Filed May 28, 1923.

Dwarfies

Particular description of goods.—Cereal Breakfast Food.
Claims use since Apr. 10, 1923.

Ser. No. 181,333. (CLASS 38. PRINTS AND PUBLICATIONS.) THOS. A. BOMGHT, doing business as Radio Record Publishing Company, Minneapolis, Minn. Filed May 29, 1923.

THE RADIO RECORD ILLUSTRATED

Particular description of goods.—Magazine Entitled Radio Record.
Claims use since on or about Mar. 1, 1923.

Ser. No. 181,354. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS. SOCIETE ANONYME DES LABORATOIRES INNOXA, Paris, France. Filed May 29, 1923.

INOTYOL

Particular description of goods.—A Medicated Soap Used as a Remedy for All Skin Diseases, Including Acnes, Eczema, Seborrhea, Etc.
Claims use since Oct. 16, 1919.

Ser. No. 181,472. (CLASS 39. CLOTHING.) A. J. BATES COMPANY, Webster, Mass. Filed June 2, 1923.

Trouser-Crease

Particular description of goods.—Shoes and Parts Thereof Composed of Leather, Rubber, Canvas, and Combinations Thereof.
Claims use since Aug. 1, 1922.

Ser. No. 181,487. (CLASS 39. CLOTHING.) HURLEY SHOE CO., Rockland, Mass. Filed June 2, 1923.

G/A

Particular description of goods.—Shoes of Leather, Rubber, and Fabric; Leather and Rubber, Leather and Fabric, and Rubber and Fabric.
Claims use since December, 1922.

Ser. No. 181,525. (CLASS 39. CLOTHING.) GEORGE R. GREEN, doing business as Bonny Sun Hat Co., Toledo, Ohio. Filed June 4, 1923.

BONNY

Particular description of goods.—Sun Hats for Women and Children.
Claims use since August, 1922.

Ser. No. 181,536. (CLASS 39. CLOTHING.) NEMO HAT COMPANY, New York, N. Y. Filed June 4, 1923.

Pierrette



Hats

No claim is made for the word "Hats" apart from the mark shown.
Particular description of goods.—Ladies', Misses', and Children's Hats and Caps.
Claims use since Oct. 1, 1922.

Ser. No. 181,574. (CLASS 39. CLOTHING.) STERNBERGER & SHEAMAN, New York, N. Y. Filed June 5, 1923.



The portrait upon the trade-mark is fanciful. No claim is made to the use of the words "Hats," "Paris," and "New York" which appear on the drawing apart from the mark shown.

Particular description of goods.—Ladies' and Misses' Hats.

Claims use since May 1, 1923.

Ser. No. 181,591. (CLASS 39. CLOTHING.) FRANK G. DELBON, Brooklyn, N. Y. Filed June 6, 1923.



No claim is made herein to the words "Tripodal Balance" apart from the mark shown, and no legal right that I may have apart from this registration to said words "Tripodal Balance" being waived or relinquished.

Particular description of goods.—Leather Shoes.

Claims use since about Mar. 15, 1923.

Ser. No. 181,618. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY A. SCHNITTKER, doing business as H. A. S. Coffee Company, St. Louis, Mo. Filed June 6, 1923.

One Eleven
"111"

Particular description of goods.—Coffee.

Claims use since Feb. 19, 1923.

Ser. No. 181,619. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY A. SCHNITTKER, doing business as H. A. S. Coffee Company, St. Louis, Mo. Filed June 6, 1923.

FOREST KING

Particular description of goods.—Coffee.

Claims use since Feb. 19, 1923.

Ser. No. 181,621. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY A. SCHNITTKER, doing business as H. A. S. Coffee Company, St. Louis, Mo. Filed June 6, 1923.

TRANSPORT

Particular description of goods.—Coffee.

Claims use since Feb. 19, 1923.

Ser. No. 181,646. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE QUAKER OATS COMPANY, Chicago, Ill. Filed June 1, 1923. Under ten-year proviso.

SCHUMACHER

Particular description of goods.—Corn Meal, Wheat Flour, Prepared Dietetic Flour, Pearl Barley, Hominy Grits, Poultry Feeds, and Stock Feeds.

Claims use since 1865.

Ser. No. 181,675. (CLASS 38. PRINTS AND PUBLICATIONS.) COMMUNITY PUBLICITY SERVICE, St. Louis, Mo. Filed June 8, 1923.

FACE TO FACE COMMUNITY CALENDAR
PUBLISHED BY COMMUNITY PUBLICITY SERVICE, ST. LOUIS, MO.

The words "Community Calendar," "Published by," and "St. Louis, Missouri" apart from the mark shown are disclaimed.

Particular description of goods.—Calendars.

Claims use since June 1, 1923.

Ser. No. 181,695. (CLASS 39. CLOTHING.) MODEL BRASSIERE CO. INC., New York, N. Y. Filed June 8, 1923.

CRISS CROSS

Particular description of goods.—Brassières and Garter Brassières.

Claims use since Feb. 5, 1923.

Ser. No. 181,712. (CLASS 39. CLOTHING.) CORA YOST, doing business as Classy Fabrics Company, Philadelphia, Pa. Filed June 8, 1923.

Beaux Arts

Particular description of goods.—Knit Underwear for Men, Women, and Children.

Claims use since May 9, 1923.

Ser. No. 181,737. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) DETROIT SODA PRODUCTS CO., Detroit, Mich. Filed June 9, 1923.

DETSO

Particular description of goods.—Cleaning and Washing Compound Having Incidental Water-Softening Properties.

Claims use since Nov. 15, 1922.

Ser. No. 181,750. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. S. IVINS' SON, INC., Philadelphia, Pa. Filed June 9, 1923.



No claim made to the words shown in the drawing except the word "Ivin's."

Particular description of goods.—Cookies, Cakes, and Crackers.

Claims use since Jan. 1, 1921.

Ser. No. 181,807. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARCHBOLD-GIGER & CO., Paterson, N. J. Filed June 11, 1923.

ARCHBOLD-GIGER & CO.
98 LBS. 1-2 BBL.
BIG CHIEF
FANCY PATENT
FLOUR
PATERSON, N. J.

No claim is made to "98 lbs. 1-2 bbl. Fancy Patent Flour Paterson, N. J." apart from the mark as shown.

Particular description of goods.—Wheat Flour.

Claims use since 1913.

Ser. No. 181,911. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAN JUAN ISLANDS CANNERY, Spokane, Wash. Filed June 12, 1923.

Salt Air

Particular description of goods.—Canned Peas.

Claims use since Mar. 10, 1923.

Ser. No. 182,001. (CLASS 39. CLOTHING.) I. MILLER & SONS INC., Brooklyn, N. Y. Filed June 14, 1923. Under ten-year proviso.

I. MILLER

Particular description of goods.—Shoes, Slippers, and Boots of Leather, Rubber, Fabric, Leather and Rubber, Leather and Fabric, or Rubber and Fabric.

Claims use since June 1, 1892.

Ser. No. 182,014. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN SCOWCROFT & SONS COMPANY, Ogden, Utah. Filed June 14, 1923.

BLUE PINE
BRAND
FOOD PRODUCTS

No claim made to the words "Brand" and "Food Products" apart from the mark shown by the drawing.

Particular description of goods.—Salad Dressing, Salad Oil, Olive Oil, Vinegar, Spice, Rice, and Shelled Walnuts in Their Natural State.

Claims use since Jan. 1, 1923.

Ser. No. 182,050. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GLACIER DEPOSIT LOBORATORIES, INC., Springfield, Minn. Filed June 15, 1923.

Glacier Clay
Nature's Way

Particular description of goods.—Complexion Clay.

Claims use since Dec. 24, 1922.

Ser. No. 182,143. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELKINS MEDICINE CO., Philadelphia, Pa. Filed June 18, 1923.

TANAGLANDIN

Particular description of goods.—Vitamine Tonic in Tablet Form for the Treatment of Gland Troubles, Nervousness, Anæmia, Loss of Sleep, and General Weakness.

Claims use since May 1, 1922.

Ser. No. 182,170. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MUPU CITRUS ASSOCIATION, Santa Paula, Calif. Filed June 18, 1923.

Exceptional

Particular description of goods.—Fresh Citrous Fruit.

Claims use since Dec. 1, 1922.

Ser. No. 182,177. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PORTLAND FLOUR MILLS CO., Portland, Oreg. Filed June 18, 1923.



MARCA PIÑA

The word "Marca" does not form a part of the mark sought to be registered apart from the mark shown in the drawing.

Particular description of goods.—Wheat Flour.

Claims use since December, 1912.

Ser. No. 182,178. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PORTLAND FLOUR MILLS CO., Portland, Oreg. Filed June 18, 1923.

SILVER BELLS

Particular description of goods.—Wheat Flour.

Claims use since September, 1904.

Ser. No. 182,206. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRIEDRICH GROSSE, doing business as Colisan Co., New York, N. Y. Filed June 19, 1923.

COLISAN

Particular description of goods.—Medicinal Preparation for the Treatment of Intestinal Auto-Intoxication, Putrefaction, or Fermentation in the Digestive Tract.

Claims use since fall of 1919.

Ser. No. 182,231. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM H. BROOKS, San Francisco, Calif. Filed June 20, 1923.

NATCHREL LAX FOODS

No claim is made to the words "Lax Foods" apart from the mark shown.

Particular description of goods.—Health Foods Consisting of a Combination of Cereals—Namely, Bran, Flaxseed, and Whole Wheat in Their Raw State—and Also for Products Such as Bran Bread, Bran Cookies, Whole-Wheat Cookies, Bran Muffins, and Whole-Wheat Muffins.

Claims use since on or about Feb. 20, 1923.

Ser. No. 182,238. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PERC EDWARDS, doing business as Standard Engineering & Lubricating Co., New York, N. Y. Filed June 20, 1923.

Triplex

3 IN 1 BOILER TREATMENT

No claim made to the words "Boiler Treatment" appearing in the drawing.

Particular description of goods.—Water Neutralizer, Scale Remover, and Scale Preventive for Boilers.

Claims use since Sept. 15, 1921.

Ser. No. 182,261. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) FREDERICK S. RADWAY, doing business as I. L. Radwaner Seed Company, New York, N. Y. Filed June 20, 1923.

SUNSHINE

Particular description of goods—Clover and Field Seeds.

Claims use since May 1, 1912.

Ser. No. 182,273. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE SOLIDIFIED NAPHTHA CORPORATION, Chicago, Ill. Filed June 20, 1923.

RITZOLITE

Particular description of goods.—Preparation for the Same Use to Which Soaps, Cleaning Fluids, Washing Powders, Polishing Substances, or Other Detergents are Put.

Claims use since Feb. 10, 1923.

Ser. No. 182,318. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) HOWARD R. SCHROYER, Chicago, Ill., assignor to The Travel-Right Co., Chicago, Ill., a Corporation of Illinois. Filed June 21, 1923.

Travel-Right

Particular description of goods.—Metal Garment-Holding Frames Particularly Adapted for Use in Cedar Chests, Wardrobe Trunks, and the Like.

Claims use since early in April, 1923.

Ser. No. 182,337. (CLASS 39. CLOTHING.) WM. FILENE'S SONS COMPANY, Boston, Mass. Filed June 22, 1923.

Sécurité

Particular description of goods.—Men's, Women's, and Children's Gloves Made of Leather and of Knitted Materials.

Claims use since Sept. 1, 1909.

Ser. No. 182,342. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GERM-O-SALV COMPANY, Searcy, Ark. Filed June 22, 1923.

Robertson's Germ-O-Salv

Particular description of goods.—Preparation for the Treatment of Itch; Also for Slow-Healing and Infected Sores, Sores on Skin and Scalp, and Eczema, Also for Insect Bites, Such as Chigoes and Mosquitoes.

Claims use since September, 1918.

Ser. No. 182,422. (CLASS 46. FOODS AND INGREDIENT OF FOODS.) KING MILLING CO., Lowell, Mich. Filed June 25, 1923.

KING'S FLAKE

Particular description of goods.—Wheat Flour.

Claims use since April, 1914.

Ser. No. 182,451. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TRI-STATE VEGI FEED CO., Cincinnati, Ohio. Filed June 25, 1923.

SUGAR JACK

Particular description of goods.—Dairy and Horse Feed.

Claims use since Aug. 28, 1922.

Ser. No. 182,470. (CLASS 39. CLOTHING.) WM. FILENE'S SONS COMPANY, Boston, Mass. Filed June 26, 1923.

Rambler

Particular description of goods.—Men's, Women's, and Children's Gloves Made of Leather and of Knitted Materials.

Claims use since Sept. 4, 1904.

Ser. No. 182,474. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAURICE J. LANGDON, Boston, Mass. Filed June 26, 1923.

Langdeau

Particular description of goods.—Toilet Preparations.

Claims use since June 15, 1922.

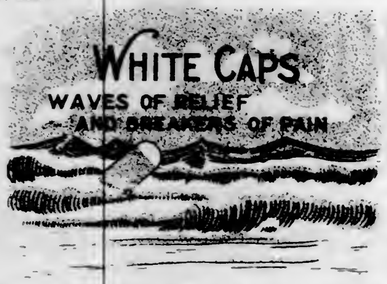
Ser. No. 182,504. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EIMER & AMEND, New York, N. Y. Filed June 27, 1923.

Sulfo-Lan

Particular description of goods.—Antiseptic and Healing Ointment for the Treatment of Eczema, Ringworm, Piles, Itch, Ivy Poisoning, Pimples, Burns, Sunburn, Cuts, All Skin Irritations, and Especially in the Treatment of Burns and Scalds.

Claims use since June 1, 1923.

Ser. No. 182,511. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GILBERT BROS. & CO., INC., Baltimore, Md. Filed June 27, 1923.



Particular description of goods.—Preparation for the Treatment of Headache, Neuralgia, Neuritis, Rheumatism, Lumbago, Colds, La Grippe, and Acute Muscular Rheumatism.
Claims use since about Jan. 1, 1912.

Ser. No. 182,533. (CLASS 39. CLOTHING.) WILLIAM CARROLL & COMPANY, INC., New York, N. Y. Filed June 28, 1923.

Wilcarco

Particular description of goods.—Hats for Men.
Claims use since April, 1922.

Ser. No. 182,538. (CLASS 7. CORDAGE.) HAWKINS & TIPSON LTD., London, England. Filed June 28, 1923.



"HERCULES"
BRAND.

The word "Brand" and the representation of a rope are disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Rope.
Claims use since Dec. 1, 1907.

Ser. No. 182,553. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TYLER CHEMICAL CO., INC., Pawtucket, R. I. Filed June 28, 1923.

TYLER'S
TYLER
UJELLIT

Particular description of goods.—Gelatin Preparation Used for Making Desserts.
Claims use since June 9, 1923.

Ser. No. 182,585. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES F. HIGHTOWER, doing business as The Cheery Ola Co., Fort Worth, Tex. Filed June 29, 1923.

Cheery Ola

Particular description of goods.—A Flavoring Sirup for Food Beverages, Ice Cream, Cakes, Pies, and Fruit Salads.
Claims use since June 15, 1922.

Ser. No. 182,594. (CLASS 39. CLOTHING.) LUNN & SWEET INCORPORATED, Auburn, Me. Filed June 29, 1923.



Particular description of goods.—Shoes of Leather, of Fabric, and of a Combination of Leather and Fabric, Both with and without Rubber Soles.
Claims use since March, 1914.

Ser. No. 182,595. (CLASS 39. CLOTHING.) LUNN & SWEET INCORPORATED, Auburn, Me. Filed June 29, 1923.



Particular description of goods.—Shoes of Leather, of Fabric, and of a Combination of Leather and Fabric, Both with and without Rubber Soles.
Claims use since July, 1905.

Ser. No. 182,596. (CLASS 39. CLOTHING.) LUNN & SWEET INCORPORATED, Auburn, Me. Filed June 29, 1923.



Particular description of goods.—Shoes of Leather, of Fabric, and of a Combination of Leather and Fabric, Both with and without Rubber Soles.
Claims use since October, 1915.

Ser. No. 182,607. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PORTLAND FLOUR MILLS CO., Portland, Oreg. Filed June 29, 1923.

WHITE DOVE

Particular description of goods.—Wheat Flour.
Claims use since November, 1908.

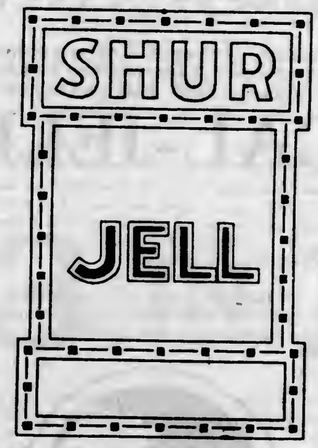
Ser. No. 182,608. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PORTLAND FLOUR MILLS CO., Portland, Oreg. Filed June 29, 1923.



ANVIL

Particular description of goods.—Wheat Flour.
Claims use since September, 1907.

Ser. No. 182,631. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WABASH BAKING POWDER CO., Wabash, Ind. Filed June 29, 1923.



The word "Jell" does not form a part of the registration sought apart from the mark shown in the drawing.
Particular description of goods.—Gelatin Dessert.
Claims use since May 24, 1923.

Ser. No. 182,633. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WESCOE LABORATORIES, Atlantic City, N. J. Filed June 29, 1923.

WESCOE

Particular description of goods.—Remedies in Liquid Form for Cough-Producing Affections and in the Form of Pills or the Like for the Relief of Affections Commonly Known as Colds.
Claims use since Mar. 1, 1921.

Ser. No. 182,635. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WESTERN WHOLESALE DRUG CO., also doing business as R. H. Brown & Co., Los Angeles, Calif. Filed June 29, 1923.



The phrase "A First Aid" is disclaimed apart from the mark as shown in the drawing.

Particular description of goods.—An Ointment or Salve for Sunburn, Windburn, Scalds, Cuts, Burns, Chilblains, Chafes, and Chaps.

Claims use since June 1, 1923.

Ser. No. 182,649. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA FOOD PRODUCTS COMPANY, Los Angeles, Calif. Filed June 30, 1923.

CAL-JELL

Applicant disclaims the exclusive right to the use of the word "Jell" apart from the mark as shown.

Particular description of goods.—Gelatin Dessert Preparation.

Claims use since Apr. 13, 1923.

Ser. No. 182,660. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAPANESE PERFUME CO., New York, N. Y. Filed June 30, 1923.



Particular description of goods.—Perfume.

Claims use since April, 1923.

Ser. No. 182,674. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROMAN INC., Boston, Mass. Filed June 30, 1923.

AROMO OIL

No claim made to the word "Oil" apart from the mark shown.

Particular description of goods.—Shampoo Oil.

Claims use since June 1, 1921.

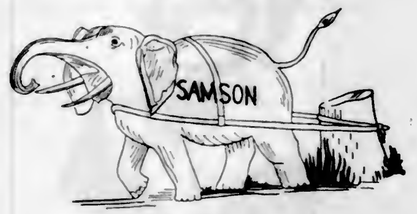
Ser. No. 182,680. (CLASS 39. CLOTHING.) BERNARD SKLAREW, New York, N. Y. Filed June 30, 1923.

CHICLYNE

Particular description of goods.—Brassières.

Claims use since Apr. 4, 1923.

Ser. No. 182,700. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CALIFORNIA TANNING COMPANY, St. Louis, Mo. Filed July 2, 1923.



Particular description of goods.—Genuine Leather.

Claims use since 1888.

Ser. No. 182,710. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN C. KREIDER, doing business as White Rock Liniment Company, Rohrestown, Pa. Filed July 2, 1923.

WHITE ROCK LINIMENT

The word "Liniment" is disclaimed apart from the mark shown.

Particular description of goods.—Liniment.

Claims use since Apr. 1, 1923.

Ser. No. 182,740. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE DUNLOP MILLING COMPANY, Clarksville, Tenn. Filed July 3, 1923.



Particular description of goods.—Self-Rising Flour.

Claims use since May, 1915.

Ser. No. 182,759. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LILLIE MILL COMPANY, Franklin, Tenn. Filed July 3, 1923.



The picture is fanciful.

Particular description of goods.—Wheat Flour.

Claims use since Feb. 21, 1914.

Ser. No. 182,772. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE RUB-NO-MORE COMPANY, Fort Wayne, Ind. Filed July 3, 1923.

SPOTLESS

Particular description of goods.—Cleanser.

Claims use since August, 1912.

Ser. No. 182,960. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM M. BRIGHT, doing business as La-rite Laboratories, Bloomington, Ill. Filed July 9, 1923.

La-rite

Particular description of goods.—Preparation for Use in Connection with the Combing and Grooming of the Hair.

Claims use since June 14, 1923.

Ser. No. 183,017. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE ADMIRAL TIRE & RUBBER COMPANY, Cosbocton, Ohio. Filed July 10, 1923.

ADMIRAL

Particular description of goods.—Inner Tubes, Pneumatic Tires, Cord Tires, and Fabric Tires.

Claims use since July 2, 1923.

Ser. No. 183,057. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JESSIE J. ENHELDER, Fresno, Calif. Filed July 11, 1923.

3 IN 1

Particular description of goods.—Compound for Treating Colds and Influenza and for Treating Colic in Live Stock.

Claims use since May 28, 1923.

Ser. No. 183,078. (CLASS 38. PRINTS AND PUBLICATIONS.) MONTGOMERY WARD & CO., Chicago, Ill. Filed July 11, 1923.

FORWARD

Particular description of goods.—Magazine Published at Recurrent Intervals.

Claims use since Aug. 28, 1922.

Ser. No. 183,083. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN C. PICKETT, doing business as John C. Pickett & Co., Somerville, Mass. Filed July 11, 1923.

PERA

Trade-mark consists of the word "Pera".
Particular description of goods.—Facial Clay, Cleansing Crème and Tissue Crème.
Claims use since Jan. 10, 1923.

Ser. No. 183,094. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES L. CASH, doing business as Eutaw Chemical Co., Boston, Mass. Filed July 12, 1923.

KWIK-STOP

Particular description of goods.—Preparation for the Treatment of Toothache.
Claims use since Apr. 1, 1922.

Ser. No. 183,098. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CAROLYN TOMLINSON DARE, Atlantic City, N. J. Filed July 12, 1923.

SIN

Particular description of goods.—Perfume.
Claims use since June 21, 1923.

Ser. No. 183,115. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HY-PURE LABORATORIES, Cincinnati, Ohio. Filed July 12, 1923.

Hy-Pure

Particular description of goods.—Powdered Alum, Boric Acid, Powdered Borax, Camphorated Oil, Aromatic Cascara, Castor Oil, Compound Licorice Powder, Cream of Tartar, Epsom Salts, Essence of Peppermint, Glycerin, Ground Flaxseed, Whole Flaxseed, Rochelle Salts, Soda Bicarbonate, Spirits of Camphor, Tincture of Arnica, Soda-Mint Tablets, Soda-Mint and Pepsin Tablets, Chlorate-of-Potash Tablets, and Glycerin and Rose Water.
Claims use since Nov. 15, 1922.

Ser. No. 183,120. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROLAND I. PADDON, Chicago, Ill. Filed July 12, 1923.

A

Particular description of goods.—Shampoo.
Claims use since June 20, 1923.

Ser. No. 183,130. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) U. S. PURE DRUG LABORATORIES, Cincinnati, Ohio. Filed July 12, 1923.

U.S.L.

Particular description of goods.—Powdered Alum, Boric Acid, Powdered Borax, Camphorated Oil, Aromatic Cascara, Castor Oil, Compound Licorice Powder, Cream of Tartar, Epsom Salts, Essence of Peppermint, Glycerin, Ground Flaxseed, Whole Flaxseed, Rochelle Salts, Soda Bicarbonate, Spirits of Camphor, Tincture of Arnica, Soda-Mint Tablets, Soda-Mint and Pepsin Tablets, Chlorate-of-Potash Tablets, and Glycerin and Rose Water.
Claims use since Nov. 15, 1922.

Ser. No. 183,175. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARGUERITE SULLIVAN, Philadelphia, Pa., assignor to Eugene J. Reefer and Marguerite Sullivan, both of Philadelphia, Pa., trading as Domino House, Philadelphia, Pa. Filed July 13, 1923.

FRECKELETTE

Particular description of goods.—Preparation for Removing Freckles.
Claims use since July 3, 1923.

Ser. No. 183,176. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARGUERITE SULLIVAN, Philadelphia, Pa., assignor to Eugene J. Reefer and Marguerite Sullivan, both of Philadelphia, Pa., trading as Domino House, Philadelphia, Pa. Filed July 13, 1923.

WRINKELETTE

Particular description of goods.—Preparation for Removing Wrinkles.
Claims use since July 3, 1923.

Ser. No. 183,181. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE H. WEYER, St. Joseph, Mo. Filed July 13, 1923.

WEYER'S 3 ROSES

Particular description of goods.—Perfumes, Toilet Waters, Face Creams, Hair Creams, Beauty Clay, Hair Oils, Liquid Shampoo, Face Powders, Talcum Powders, Lip Rouges, and Hair Tonics.
Claims use since Nov. 27, 1922.

Ser. No. 183,246. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. P. BABCOCK CO., New York, N. Y. Filed July 16, 1923.

BABCOCK'S TIP TAP

Particular description of goods.—Perfume.
Claims use since May 1, 1923.

Ser. No. 183,268. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FURST-MCNESS COMPANY, Freeport, Ill. Filed July 16, 1923.

Re Joie

Particular description of goods.—Perfume, Toilet Water, Face Powder, Compact, Face Cream, and Rouge.
Claims use since Jan. 2, 1923.

Ser. No. 183,273. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GENERAL PAINT AND VARNISH COMPANY, Chicago, Ill. Filed July 16, 1923.

GENSPAR

Particular description of goods.—Varnishes, Stains, and Paint Enamels.
Claims use since Jan. 1, 1922.

Ser. No. 183,277. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GENERAL PAINT AND VARNISH COMPANY, Chicago, Ill. Filed July 16, 1923.

SUDSO

Particular description of goods.—Liquid, Hard, or Soft Soap.
Claims use since Jan. 1, 1922.

Ser. No. 183,304. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KUTNER-GOLDSTEIN CO., San Francisco, Calif. Filed July 16, 1923.

FLEUR DE LIS

Particular description of goods.—Sulphur.
Claims use since May, 1909.

Ser. No. 183,332. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN C. DAWES, Irvington, N. J. Filed July 17, 1923.

DAWES IDEAL

Particular description of goods.—Corn Remover.
Claims use since April, 1910.

Ser. No. 183,372. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GILBERT BROS. & CO., INC., Baltimore, Md. Filed July 18, 1923.

GILBRO'S

Particular description of goods.—Tooth Paste and Cream for Cleansing and Relieving Irritations of the Skin.
Claims use since June 15, 1915.

Ser. No. 183,374. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GILBERT BROS. & Co., INC., Baltimore, Md. Filed July 18, 1923.

SELECT



No claim made to the exclusive right to the use of the word "Select" apart from the mark shown in the drawing.

Particular description of goods.—Flavoring Extracts for Foods.

Claims use since Jan. 10, 1890.

Ser. No. 183,377. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GILBERT BROS. & Co., INC., Baltimore, Md. Filed July 18, 1923.

YAGER'S



Particular description of goods.—Preparation for Use in the Treatment of Nervous and Sick Headache, Neuralgia, Nervous Exhaustion, Insomnia, and Colds.

Claims use since June 30, 1904.

Ser. No. 183,389. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAWRENCE CHEMICAL COMPANY, Atlanta, Ga. Filed July 18, 1923.

STYPSTRINGANT

Particular description of goods.—Proprietary Preparation Used in the Treatment of Pyorrhea or Riggs' Disease.

Claims use since 1910.

Serial No. 183,397. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE MURALO COMPANY, INC., New Brighton, N. Y. Filed July 18, 1923.

UNCLE SAM'S

Particular description of goods.—Calcimines in Dry Powder Form.

Claims use since Dec. 18, 1914.

Serial No. 183,399. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE MURALO COMPANY, INC., New Brighton, N. Y. Filed July 18, 1923.

"SALAMANDER"

Particular description of goods.—Calcimines in Dry Powder Form.

Claims use since Dec. 14, 1914.

Ser. No. 183,418. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARGUERITE SULLIVAN, Philadelphia, Pa., assignor to Eugene J. Reefer and Marguerite Sullivan, both of Philadelphia, Pa., doing business as Domino House, Philadelphia, Pa. Filed July 18, 1923.

"VELVETTEX"

Particular description of goods.—Hand Lotion.

Claims use since July 12, 1923.

Ser. No. 183,426. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNIVERSAL REMEDIES COMPANY, San Francisco, Calif. Filed July 18, 1923.

HUFELAND

Particular description of goods.—Stomach Tonic.

Claims use since Apr. 23, 1923.

Ser. No. 183,429. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILSON INSTRUMENT & SPECIALTY COMPANY, Passaic, N. J. Filed July 18, 1923.

IT S IT

Particular description of goods.—Welding Preparation.

Claims use since May 1, 1923.

Ser. No. 183,461. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN C. WOLFORD, Newark, Ohio. Filed July 19, 1923.

TRI-MI-SOAP

No claim is made for the word "Soap" apart from the mark shown by the drawing.

Particular description of goods.—Soap.

Claims use since Apr. 2, 1923.

Ser. No. 183,470. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) J. C. DOWD & CO. INC., New York, N. Y. Filed July 20, 1923.

"Ivoroyd"

Particular description of goods.—Toilet Combs, Pincushion Holders, and Buttonhooks Made of Celluloid or Similar Material.

Claims use since 1890.

Ser. No. 183,474. (CLASS 34. HEATING, LIGHTING AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) GILL BROTHERS COMPANY, Steubenville, Ohio. Filed July 20, 1923.

TruLite

Particular description of goods.—All Types and Styles of Kerosene-Lamp Burners.

Claims use since July 1, 1923.

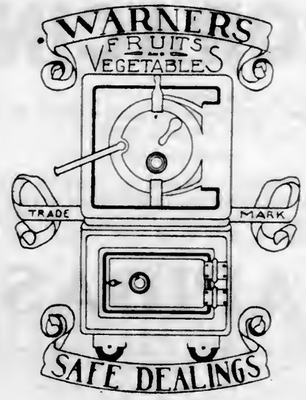
Ser. No. 183,488. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ISADORE A. MELNICK, Los Angeles, Calif. Filed July 20, 1923.

MEL-AROMA

Particular description of goods.—Remedy for Stomach Disorders and Constipation.

Claims use since June 19, 1923.

Ser. No. 183,510. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PHIL WARNER & SON, also doing business as Phil Warner, Los Angeles, Calif. Filed July 20, 1923.



The words "Fruits and Vegetables" and "Trade Mark" appearing in the drawings are hereby disclaimed.

Particular description of goods.—Fresh Fruits and Fresh Vegetables—Namely, Oranges, Lemons, Cantaloupes, Lettuce, and Fresh Tomatoes.

Claims use since February, 1919.

Ser. No. 183,515. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ABEL-JENSEN LABORATORIES, Chicago, Ill. Filed July 21, 1923.

TOX-O-LAX

Particular description of goods.—Antiseptic Laxative.

Claims use since July 6, 1923.

Ser. No. 183,521. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ERNEST GOVETT, Long Island City, N. Y. Filed July 21, 1923.

PESTEX

Particular description of goods.—Insecticides.

Claims use since July 1, 1923.

Ser. No. 183,552. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOOT'S PURE DRUG CO., LIMITED, Nottingham, England. Filed July 23, 1923.

STABILARSAN

Particular description of goods.—Preparation for the Treatment of Syphilis and Other Spirochetal Diseases.

Claims use since September, 1920.

Ser. No. 183,579. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELI LILLY AND COMPANY, Indianapolis, Ind. Filed July 23, 1923.

BORACINE

Trade-mark "Boracine".
Particular description of goods.—Toilet Powder.
Claims use since January, 1876.

Ser. No. 183,619. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMERICAN BURTONIZING COMPANY AND WALLERSTEIN LABORATORIES, New York, N. Y. Filed July 24, 1923.

RAPIDASE

Particular description of goods.—Diastatic Preparation Used for Desizing and Degumming of Fabrics and for the Production of Sizings and Soluble Starches.
Claims use since June 25, 1923.

Ser. No. 183,642. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL S. ATKINS, Springfield, Ohio. Filed July 25, 1923.

LILLIAN PERSIAN
L·P

Particular description of goods.—Composition for Treating Leucorrhea.
Claims use since May 26, 1923.

Ser. No. 183,660. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) BROWNELL MCGIBBON, doing business as B. McGibbon & Bro., New York, N. Y. Filed July 25, 1923.

STATE CLUSTERS
NE PLUS ULTRA.

No claim is made to the word "Clusters" and "Ne Plus Ultra" nor to the representation of hops apart from the mark shown in the drawing.
Particular description of goods.—Hops.
Claims use since 1897.

Ser. No. 183,690. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES E. BONYATA, doing business as The Bonyata Chemical Company, Grinnell, Iowa. Filed July 26, 1923.

"KANT-MUS"

Particular description of goods.—Hair-Dressing Preparation.
Claims use since June 28, 1923.

Ser. No. 183,699. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELEKTRIZITATSWERK LONZA, Gampel and Basel, Switzerland. Filed July 26, 1923.



Particular description of goods.—Agglomerates of Solid Aldehyde, Solid Methyl Alcohol, and Solid Ethyl Alcohol for Heating and Lighting Purposes.
Claims use since about Jan. 1, 1923.

Ser. No. 183,701. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. V. FORSHAG & CO., Franklinton, La. Filed July 26, 1923.



Particular description of goods.—Ointment for the Treatment of Ringworm, Seven-Year Itch, and Other Eruptions of the Skin.
Claims use since July 3, 1923.

Ser. No. 183,710. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IOWA CITY CANNING CO., Iowa City, Iowa. Filed July 26, 1923.

Little Folks

Particular description of goods.—Canned Corn.
Claims use since 1912.

Ser. No. 183,744. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RICHARD HUDNUT, New York, N. Y. Filed July 27, 1923.

THREE FLOWERS

Particular description of goods.—Perfumes, Toilet Water, Vanishing Cream, Face Powder, Compact Powder, Compact Rouge, Talcum Powder, Brilliantine, Sachet, Skin and Tissue Cream, Cleansing Cream, Bath Crystals, and Lip Sticks.
Claims use since Jan. 23, 1915.

Ser. No. 183,751. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LINITANE COMPANY, Syracuse, N. Y. Filed July 27, 1923.

Linitane
FOR BRUISE OR SPRAIN

No claim is made to the words "For Bruise or Sprain".
Particular description of goods.—Externally-Applied Preparation for Rheumatism, Sprains, Stiff Joints, Cuts, Bruises, and Insect Bites.
Claims use since June 9, 1923.

Ser. No. 183,757. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBERT NOLL, doing business as The Noll Company, Cambridge, Mass. Filed July 27, 1923.

EverGlo

Particular description of goods.—Shampoo.
Claims use since May 1, 1923.

Ser. No. 183,760. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TOM HARTLEY ROBERTS, Reigate, England. Filed July 27, 1923.

SULZIN

Particular description of goods.—Chemical Substances Used in the Manufactures, Anticorrosives, and Drug for Use in Connection with the Vulcanization of Rubber.
Claims use since Mar. 1, 1923.

Ser. No. 183,765. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE GUERLAIN, Paris, France. Filed July 27, 1923.

SECRET DE BONNE FEMME

Particular description of goods.—Perfumes.
Claims use since 1906.

Ser. No. 183,767. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE GUERLAIN, Paris, France. Filed July 27, 1923.

GUERLINADE

Particular description of goods.—Perfumes.
Claims use since 1922.

Ser. No. 183,770. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE GUERLAIN, Paris, France. Filed July 27, 1923.

MITSOUKO

Particular description of goods.—Perfumes.
Claims use since 1922.

Ser. No. 183,771. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE GUERLAIN, Paris, France. Filed July 27, 1923.

BOUQUET DE FAUNES

Particular description of goods.—Perfumes.
Claims use since February, 1923.

Ser. No. 183,772. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE GUERLAIN, Paris, France. Filed July 27, 1923.

ROSE RLIP BENLALE

Particular description of goods.—Lip Sticks.
Claims use since 1921.

Ser. No. 183,773. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE GUERLAIN, Paris, France. Filed July 27, 1923.

HEURE BLEUE

Particular description of goods.—Perfumes.
Claims use since 1913.

Ser. No. 183,774. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE GUERLAIN, Paris, France. Filed July 27, 1923.

POUDRE AUX BALLONS

Particular description of goods.—Perfumes.
Claims use since 1920.

Ser. No. 183,775. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE GUERLAIN, Paris, France. Filed July 27, 1923.

APRÈS L'ONDEE

Particular description of goods.—Perfumes.
Claims use since 1906.

Ser. No. 183,776. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE GUERLAIN, Paris, France. Filed July 27, 1923.

SUPERDULCI

Particular description of goods.—Perfumes.
Claims use since 1912.

Ser. No. 183,777. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE GUERLAIN, Paris, France. Filed July 27, 1923.

MOUB LEZ PAS

Particular description of goods.—Perfumes.
Claims use since February, 1923.

Ser. No. 183,778. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE GUERLAIN, Paris, France. Filed July 27, 1923.

ELIXIR DE GUERLAIN

Particular description of goods.—Perfumes.
Claims use since February, 1923.

Ser. No. 183,790. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE LOUIS ALLIS COMPANY, Milwaukee, Wis. Filed July 28, 1923.

L-A

The trade-mark consists of the letters "L-A."
Particular description of goods.—Electric Motors, Generators, Rotary Converters, Inverted Rotaries, Frequency Changers, Controllers, and Compensators.
Claims use since Sept. 1, 1922.

Ser. No. 183,884. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NIX PRODUCE COMPANY, Hastings, Fla. Filed July 31, 1923.



The hoops of the barrel shown on the drawing are green in color.
Particular description of goods.—Potatoes in Their Natural State.
Claims use since 1915.

Ser. No. 183,888. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PROTEX CHEMICAL CO., Everett, Pa. Filed July 31, 1923.

PUTS OUT FIRES PROTEX PROTECTS YOUR HOME

No claim made to the words "Puts Out Fires," and "Protects Your Home" apart from the mark as shown on the accompanying drawing.
Particular description of goods.—Fire-Extinguishing Chemical Compound.
Claims use since July 2, 1923.

Ser. No. 183,951. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TENNESSEE BISCUIT CO., Nashville, Tenn. Filed Aug. 1, 1923.

Renommée

Particular description of goods.—Candy.
Claims use since May 1, 1923.

Ser. No. 183,972. (CLASS 15. OILS AND GREASES.) D. B. HANSEN & SONS, Chicago, Ill. Filed Aug. 2, 1923.

Rubrica

Particular description of goods.—Candles.
Claims use since July 11, 1923.

Ser. No. 184,017. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) CANUET FRÈRES, Paris, France. Filed Aug. 3, 1923.

Particular description of goods.—Beads and Metal Spangles Made of Steel, Copper, Aluminum, and Other Nonprecious Metals or Alloys Thereof.
Claims use since 1867.

Ser. No. 184,037. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) NEW CASTLE LEATHER CO. INC., New York, N. Y. Filed Aug. 3, 1923.

HARVEST BROWN

Particular description of goods.—Leather.
Claims use since July 1, 1923.

Ser. No. 184,135. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE KELLUM COMPANY, Kansas City, Mo. Filed Aug. 6, 1923.

LADY HELLEN COFFEE

The portrait of the lady appearing in the label used on the goods is that of a fanciful person. The word "Coffee" is disclaimed.
Particular description of goods.—Coffee.
Claims use since July 1, 1922.

Ser. No. 184,190. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. STEIN & COMPANY, New York, N. Y. Filed Aug. 7, 1923.

Pastella Cloth

No claim is made for the use of the term "Cloth" separate and apart from the mark as shown. The drawing is lined for shading only.

Particular description of goods.—Woolen Cloth in the Piece Intended for Women's Cloakings, Capes, Skirtings, Suitings, Etc.

Claims use since May 14, 1923.

Ser. No. 184,194. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) LAURENCE E. TIERNEY FUEL COMPANY, Bluefield, W. Va. Filed Aug. 7, 1923.

"MOHAWK"

Particular description of goods.—Coal.

Claims use since January, 1920.

Serial No. 184,216. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE SHEARER & MCCARTHY CORP., Camden, N. J. Filed Aug. 8, 1923.



The color-lining is disclaimed apart from the rest of the mark as shown.

Particular description of goods.—Artificial Flowers.

Claims use since Aug. 8, 1922.

Ser. No. 184,252. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MARLE ENGINEERING COMPANY, Orange, N. J. Filed Aug. 9, 1923.

MARLE

Particular description of goods.—Transformers.

Claims use since May 19, 1922.

Ser. No. 184,273. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WHITTEMORE BROTHERS CORPORATION, Cambridge, Mass. Filed Aug. 9, 1923.

CLEANALL

Particular description of goods.—A Preparation for Cleaning Velvet, Silk, and Satin, and Kid Shoes, Slippers, Gloves, Belts, Etc.

Claims use since February, 1910.

Ser. No. 184,291. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PALMERS, LIMITED, doing business as Minty, Montreal, Quebec, Canada. Filed Aug. 10, 1923.



The trade-mark comprises a blue background having thereon a lower greenish balloon and an upper reddish balloon, a fantastic face having red hair, and a fantastic yellow hat with the words "Gay Paree" in yellow.

Particular description of goods.—Soaps and Shaving Creams in the Form of Soap Creams.

Claims use since Dec. 10, 1922.

Ser. No. 184,318. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BINGHAMTON CANDY CO., Binghamton, N. Y. Filed Aug. 11, 1923.



Particular description of goods.—Candy.

Claims use since June 1, 1893.

Ser. No. 184,330. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE FETT & KIMMEL CO., Bluffton, Ohio. Filed Aug. 11, 1923.

MICRO-TUNE

Particular description of goods.—Variable condensers.

Claims use since May 14, 1923.

Ser. No. 184,359. (CLASS 37. PAPER AND STATIONERY.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed Aug. 11, 1923.

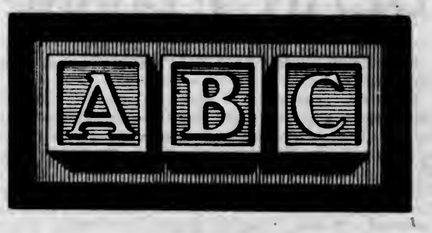


No claim is made to the words "Quality Crepe" and "For the Toilet" apart from the mark shown.

Particular description of goods.—Toilet Paper.

Claims use since July 11, 1922.

Ser. No. 184,408. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN D. LA CROIX, Vincennes, Ind. Filed Aug. 13, 1923.



The lining of the drawing is used only for the purpose of shading and is not intended to denote color.

Particular description of goods.—Powder for Cleansing the Hands and a Preparation for Removing Stains from the Hands.

Claims use since Dec. 9, 1922.

Ser. No. 184,413. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) MICHELIN TIRE COMPANY, Milltown, N. J. Filed Aug. 13, 1923.

COMFORT

Particular description of goods.—Automobile Tires Including Both Outer Casings and Inner Tubes.

Claims use since Aug. 8, 1923.

Ser. No. 184,415. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) NATIONAL TUBE COMPANY, Pittsburgh, Pa. Filed Aug. 13, 1923.



The mark is composed of the letter "B" inclosed in a Diamond-Shaped Border.

Particular description of goods.—Metal Pipe Couplings, Metal Pipes, Metal Tubes, and Metal Casings.

Claims use since July 17, 1923.

Ser. No. 184,421. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) L. T. PIVER, INC., Wilmington, Del., and New York, N. Y. Filed Aug. 13, 1923. Under ten-year proviso.

L.T. PIVER

Particular description of goods.—Toilet Soaps.

Claims use since prior to 1880.

Ser. No. 184,527. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) A. G. SPALDING & BROS., New York, N. Y. Filed Aug. 15, 1923.

KRO KANE

Particular description of goods.—Golf Clubs.

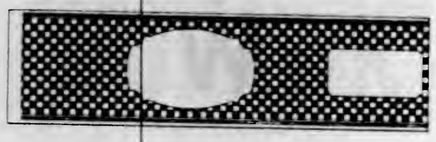
Claims use since about July 1, 1923.

Ser. No. 184,552. (CLASS 39. CLOTHING.) LANDAUER & CO. INC., Milwaukee, Wis. Filed Aug. 16, 1923.

CHESTY-CHAMP

Particular description of goods.—Men's and Boys' Work Shirts.
Claims use since May 4, 1923.

Ser. No. 184,576. (CLASS 37. PAPER AND STATIONERY.) ALBANY PERFORATED WRAPPING PAPER COMPANY, Albany, N. Y. Filed Aug. 17, 1923.



Particular description of goods.—Toilet Paper.
Claims use since July 23, 1923.

Ser. No. 184,622. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) PHYSICIANS ELECTRONIC SUPPLY CO., Los Angeles, Calif. Filed Aug. 17, 1923.

ENERGONE

Particular description of goods.—Electrical Appliances and Attachments Thereto for the Purpose of Treatment of Diseases and Their Diagnosis.
Claims use since February, 1923.

Ser. No. 184,662. (CLASS 39. CLOTHING.) FORNS & PLA, New York, N. Y. Filed Aug. 18, 1923.



Particular description of goods.—Hosiery and Fabric and Knitted Undershirts.
Claims use since Aug. 2, 1923.

Ser. No. 184,672. (CLASS 37. PAPER AND STATIONERY.) LE BOEUF FOUNTAIN PEN COMPANY, INC., Springfield, Mass. Filed Aug. 18, 1923.



No claim is made to the fountain pen apart from the mark as shown in the drawing. The mark consists in applying on each end of the fountain pen a black disk as shown.
Particular description of goods.—Fountain Pens.
Claims use since May 1, 1920.

Ser. No. 184,699. (CLASS 39. CLOTHING.) BRANHARD ULMANN CO., INC., New York, N. Y. Filed Aug. 18, 1923.

BEAR BRAND

No claim is made to the word "Brand" apart from the mark shown.
Particular description of goods.—Crocheted and Knitted Slippers and Shoes for Men, Women, Children, and Infants; Shoes and Slippers Composed Wholly or in Part of Textile Fabric Such as Cotton, Linen, Woolen, Worsted, or Silk Fabrics or a Combination of Two or More of These Fabrics; Bootees, Dresses, Suits, Vests, Vestees, Coats, Waists, Caps, and Hats for Females; Petticoats, Sweaters, Wraps, Jackets, Shawls, Wristlets, Scarfs, Mufflers, and Fabric Gloves, All of the Above Either Completed or Partly Completed, Stamped, Cut, or Otherwise Prepared for Completion by the Customer.
Claims use since about November, 1873.

Ser. No. 184,787. (CLASS 37. PAPER AND STATIONERY.) FRANC-GRAHAM PAPER CO. INC., New York, N. Y. Filed Aug. 21, 1923.

SAVINGS BOND

No claim is made to the exclusive use of the word "Bond" apart from the mark as shown. The mark consists of the words "Savings Bond."
Particular description of goods.—Bond Paper.
Claims use since Aug. 4, 1923.

Ser. No. 184,814. (CLASS 39. CLOTHING.) CHENEY BROTHERS, South Manchester, Conn. Filed Aug. 22, 1923.

ADAPTO

Particular description of goods.—Cravats and Neckties.
Claims use since Aug. 18, 1923.

Ser. No. 184,863. (CLASS 39. CLOTHING.) KIDDYALL MANUFACTURING COMPANY, Brooklyn, N. Y. Filed Aug. 22, 1923.

DANIEL BOONE

Particular description of goods.—Outer Play Suits for Boys.
Claims use since about May 28, 1923.

Ser. No. 184,873. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) CHARLES WATSON SIDNEY, doing business as Electronic Equipment Company, Jacksonville, Fla. Filed Aug. 22, 1923.

EQUALIZER

Particular description of goods.—Electronic Medical Apparatus.
Claims use since July 2, 1923.

Ser. No. 184,883. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WINDSOR POLISH CO., Windsor, Vt. Filed Aug. 22, 1923.

Thensum

Particular description of goods.—Polishes for Painted, Varnished, Waxed, and Similar Surfaces.
Claims use since July 31, 1922.

Ser. No. 185,034. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE PIONEER PRODUCTS CO., Dayton, Ohio. Filed Aug. 27, 1923.

CHEX

Particular description of goods.—Soap.
Claims use since Apr. 3, 1923.

Ser. No. 185,193. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY C. THORBURN, doing business as Drug Products, Inc., Atlanta, Ga. Filed Aug. 30, 1923.

KARNAK

Particular description of goods.—Pharmaceutical Preparation—Namely, Stomachic Tonic and System Regulator.
Claims use since June 18, 1923.

Ser. No. 185,308. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NAMCO PRODUCTS CORPORATION, New York, N. Y. Filed Sept. 4, 1923.

Red Robin

Particular description of goods.—Hair Nets.
Claims use since Aug. 24, 1923.

Ser. No. 185,329. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) BROOKS, SMITH & COANE, LIMITED, Philadelphia, Pa. Filed Sept. 5, 1923.



Particular description of goods.—Bituminous Coal.
Claims use since October, 1922.

Ser. No. 185,394. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WESTERN COIL & ELECTRICAL CO., Racine, Wis. Filed Sept. 6, 1923.

RADIODYNE

Particular description of goods.—Wireless Receiving Sets.
Claims use since Aug. 19, 1923.

Ser. No. 185,403. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE AUTOMATIC ELECTRICAL DEVICES COMPANY, Cincinnati, Ohio. Filed Sept. 7, 1923.

GOLD SEAL

Particular description of goods.—Electric Rectifiers and Rheostats.
Claims use since June 1, 1923.

Ser. No. 185,509. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BETSY ROSS HAIR NET CORP., New York, N. Y. Filed Sept. 8, 1923.

LUCKY STRIKE
HAIR NET

No claim is made to the words "Hair Net" apart from the mark shown on the drawing.
Particular description of goods.—Hair Nets.
Claims use since June 29, 1923.

Ser. No. 185,610. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PACIFIC FOOD PRODUCTS CO., Portland, Oreg. Filed Sept. 10, 1923.

Westview

Particular description of goods.—Canned Fruits and Berries.
Claims use since July 2, 1923.

Ser. No. 185,637. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VEGETABLE EXCHANGE OF CALIFORNIA, INC., San Francisco, Calif. Filed Sept. 10, 1923.

DELTA

Particular description of goods.—Fresh Asparagus.
Claims use since about Mar. 1, 1919.

Ser. No. 185,654. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FREEDMAN & ENGELMAN, Fresno, Calif. Filed Sept. 11, 1923.

GOLDEN GOOSE

Particular description of goods.—Fresh Grapes.
Claims use since July 25, 1923.

Ser. No. 185,668. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTH PACIFIC MORTGAGE COMPANY, Seattle, Wash. Filed Sept. 11, 1923.

America's Delight

Particular description of goods.—Fresh Apples.
Claims use since about July 1, 1923.

Ser. No. 185,669. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OSBORNE FRUIT & VEGETABLE COMPANY, Fullerton, Calif. Filed Sept. 11, 1923.

Dukes

Particular description of goods.—Fresh Vegetables.
Claims use since Aug. 25, 1923.

Ser. No. 185,671. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y. Filed Sept. 11, 1923.

HONOR
PILLOW CASES

Applicant disclaims exclusive right to the words "Pillow Cases" apart from the mark shown on the drawing.
Particular description of goods.—Pillowcases Manufactured from Cotton.
Claims use since May 29, 1923.

Ser. No. 185,675. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RESETAR BROS., Watsonville, Calif. Filed Sept. 11, 1923.



OWL

Particular description of goods.—Fresh Apples.
Claims use since 1910.

Ser. No. 185,681. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE TROPICAL DATE COMPANY, Thermal, Calif. Filed Sept. 11, 1923.



Particular description of goods.—Fresh and Dehydrated Dates, Also Dates Put Up in Glass Under Vacuum After Processing.
Claims use since June 1, 1923.

Ser. No. 185,686. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALBERTO VALES COMPANY, New Orleans La. Filed Sept. 12, 1923.

SELVACO

Particular description of goods.—Vegetable Shortening.
Claims use since Aug. 24, 1923.

Ser. No. 185,687. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BEESEMYER-WAGGONER, INC., Los Angeles, Calif. Filed Sept. 12, 1923.

MERMAID

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since Aug. 17, 1923.

Ser. No. 185,688. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BEESEMYER-WAGGONER, INC., Los Angeles, Calif. Filed Sept. 12, 1923.

ABBEY

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since Aug. 17, 1923.

Ser. No. 185,689. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BEESEMYER-WAGGONER, INC., Los Angeles, Calif. Filed Sept. 12, 1923.

AVALON

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since Aug. 17, 1923.

Ser. No. 185,690. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. E. BOOTH CO., San Francisco, Calif. Filed Sept. 12, 1923.

NOSTOSANO

Particular description of goods.—Fruit Concentrate (a Fruit Paste).
Claims use since May 1, 1922.

Ser. No. 185,713. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LINDSAY FARM BUREAU FRUIT ASSOCIATION, Lindsay, Calif. Filed Sept. 12, 1923.



Particular description of goods.—Fresh Citrous Fruits.
Claims use since Aug. 7, 1923.

Ser. No. 185,725. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STARRY, YOUNG & WAY, Exeter, Calif. Filed Sept. 12, 1923.

REDSKIN

Particular description of goods.—Fresh Grapes.
Claims use since June 28, 1923.

Ser. No. 185,731. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TIPTON FRUIT GROWERS ASSN., Tipton, Calif. Filed Sept. 12, 1923.



Particular description of goods.—Fresh Grapes.
Claims use since June 6, 1923.

Ser. No. 185,737. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN PRINTING COMPANY, Fall River, Mass. Filed Sept. 13, 1923.

SUPERTWIST

Particular description of goods.—Cotton Piece Goods.
Claims use since Aug. 29, 1923.

Ser. No. 185,738. (CLASS 2. RECEPTACLES.) BARLOW BROTHERS, Grand Rapids, Mich. Filed Sept. 13, 1923.

TOSSITERE

Particular description of goods.—Waste Baskets.
Claims use since Aug. 1, 1923.

Ser. No. 185,774. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILTON MANUFACTURING COMPANY, INC., New York, N. Y. Filed Sept. 13, 1923.



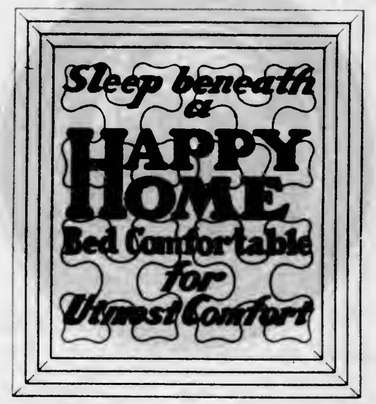
Particular description of goods.—Cotton Piece Goods.
Claims use since June 8, 1916.

Ser. No. 185,775. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILTON MANUFACTURING COMPANY, INC., New York, N. Y. Filed Sept. 13, 1923.



Particular description of goods.—Cotton Piece Goods.
Claims use since June 28, 1923.

Ser. No. 185,795. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ABRAHAM LINCOLN REACH, doing business as A. L. Reach Textile Co., New York, N. Y. Filed Sept. 14, 1923.



Particular description of goods.—Bed Comforts.
Claims use since Sept. 1, 1923.

Ser. No. 185,822. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FOOTE MINERAL CO., Philadelphia, Pa. Filed Sept. 15, 1923.

GIANT

Particular description of goods.—Detector Crystals.
Claims use since May 11, 1923.

Ser. No. 185,823. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FOOTE MINERAL CO., Philadelphia, Pa. Filed Sept. 15, 1923.



Particular description of goods.—Cat Whiskers.
Claims use since May 11, 1923.

Ser. No. 185,868. (CLASS 25. LOCKS AND SAFES.) GREENE, TWEED & CO., New York, N. Y., and Newark, N. J. Filed Sept. 17, 1923.



Particular description of goods.—Refrigerator Latches, Refrigerator Levers, Ice-House Levers, Secret Gate Latches, Flush Ring Catches, Cupboard Catches, Sash Fasteners, Cupboard Turns, Elbow Catches, Transom Catches, Chain Door Fasteners, Barrel Bolts, Cased Bolts, Ship Bolts, Neck Bolts, Surface Bolts, Cremorne Bolts, Mortise Flush Bolts, Foot Bolts, Casement-Window Fasteners, and Elevator Locks.
Claims use since May, 1922.

Ser. No. 185,874. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MILWAUKEE ROLLING MILL COMPANY, Greenfield, Wis. Filed Sept. 17, 1923.

PRYME

Particular description of goods.—Sheet Steel.
Claims use since about July 3, 1923.

Ser. No. 185,887. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM A. WHITMORE, doing business as Blackhawk Remedy Co., Baltimore, Md. Filed Sept. 17, 1923.

BLACKHAWK'S

Trade-mark "Blackhawk's."
Particular description of goods.—Liniment for the Treatment of Headache, Toothache, Neuralgia, Hay Fever, Asthma, Catarrh, Rheumatism, Lame Back, Stiff Joints, Sprains, Lumbago, Swellings, and All Muscular or Nervous Pains.
Claims use since 1912.

Ser. No. 186,009. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed Sept. 21, 1923.

PINK LADY

Particular description of goods.—Hair Nets.
Claims use since Apr. 1, 1921.

Ser. No. 186,030. (CLASS 37. PAPER AND STATIONERY.) SPECIAL PAPER MFG. CO., New York, N. Y. Filed Sept. 21, 1923.

SUPREME

Particular description of goods.—Prepared Tracing Paper.
Claims use since Aug. 1, 1923.

Ser. No. 186,031. (CLASS 37. PAPER AND STATIONERY.) SPECIAL PAPER MFG. CO., New York, N. Y. Filed Sept. 21, 1923.

MFG CO

Particular description of goods.—Prepared Tracing Paper.
Claims use since Aug. 1, 1923.

Ser. No. 186,102. (CLASS 37. PAPER AND STATIONERY.) THE CALVERT LITHOGRAPHING CO., Detroit, Mich. Filed Sept. 24, 1923.

MODEL BOND

The word "Bond" does not form a part of the registration sought apart from the mark shown in the drawing.
Particular description of goods.—Bond Paper for Printing Purposes.
Claims use since 1908.

Ser. No. 186,226. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed Sept. 26, 1923.



Particular description of goods.—Zinc Oxide.
Claims use since May 5, 1922.

Ser. No. 186,858. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN W. ROGERS, doing business as Sanateva Research Co., Washington, D. C. Filed Oct. 11, 1923.

SANATEVA

Particular description of goods.—Medicine Used as an Antiseptic and Mouth Wash.
Claims use since January, 1923.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

NOVEMBER 13, 1923.

175,725. BOILERS FOR HEATING PURPOSES. AIRDON CO., Troy, N. Y.
Filed April 17, 1923. Serial No. 179,254. PUBLISHED SEPTEMBER 4, 1923.

175,726. A HIGH-TEMPERATURE CEMENT FOR USE ALONE OR WITH FIRE BRICK OR OTHER MATERIALS IN FURNACES, BOILERS, AND OTHER DEVICES OF EVERY KIND AND DESCRIPTION WHICH ARE SUBJECTED TO HEAT. WESTERN MATERIALS COMPANY, Chicago, Ill.
Filed April 16, 1923. Serial No. 179,249. PUBLISHED SEPTEMBER 4, 1923.

175,727. BEDS, BED SPRINGS, AND MATTRESSES. U. S. BEDDING COMPANY, Memphis, Tenn.
Filed April 16, 1923. Serial No. 179,246. PUBLISHED AUGUST 28, 1923.

175,728. CERTAIN NAMED ARTICLES OF SILVERWARE. WILLIAM R. ELPERS, New York, N. Y.
Filed April 14, 1923. Serial No. 179,139. PUBLISHED AUGUST 21, 1923.

175,729. CERTAIN NAMED PIANOS. JACOB DOLL & SONS, New York, N. Y.
Filed April 14, 1923. Serial No. 179,138. PUBLISHED AUGUST 21, 1923.

175,730. PHONOGRAPHS. PLAZA MUSIC COMPANY, New York, N. Y.
Filed April 13, 1923. Serial No. 179,110. PUBLISHED AUGUST 21, 1923.

175,731. BIBS. GRACE CARLSON, St. Paul, Minn.
Filed April 12, 1923. Serial No. 179,029. PUBLISHED AUGUST 28, 1923.

175,732. MOUTHPIECES OF REED WIND INSTRUMENTS. NAUJOKS-MCLAUGHLIN, Los Angeles, Calif.
Filed April 12, 1923. Serial No. 179,052. PUBLISHED SEPTEMBER 4, 1923.

175,733. HOSIERY. EDWIN CRUTCHER, doing business as Golden Arrow Hosiery Mills, Nashville, Tenn.
Filed April 11, 1923. Serial No. 178,958. PUBLISHED JULY 10, 1923.

175,734. EDIBLE OILS AND FATS. THE AMERICAN COTTON OIL COMPANY, Union Township near Guttenberg, N. J., and New York, N. Y.
Filed April 11, 1923. Serial No. 178,944. PUBLISHED SEPTEMBER 4, 1923.

175,735. MEN'S DRESS AND NEGLIGEE SHIRTS. MICHAEL KOLBER, New York, N. Y.
Filed April 10, 1923. Serial No. 178,926. PUBLISHED AUGUST 28, 1923.

175,736. FROZEN CONFECTION. CHARLES B. BEMIS, Athol, Mass.
Filed April 10, 1923. Serial No. 178,891. PUBLISHED AUGUST 28, 1923.

175,737. BASE OR FILLER FOR CANDY. WHITE STOKES CO. INC., Chicago, Ill.
Filed April 7, 1923. Serial No. 178,792. PUBLISHED SEPTEMBER 4, 1923.

175,738. ELECTRICAL CONNECTOR CLIPS AND CLAMPS FOR AMATEUR RADIO USE. HERBERT M. HILL, Leonia, N. J.
Filed April 5, 1923. Serial No. 178,612. PUBLISHED SEPTEMBER 4, 1923.

175,739. DRESS, NEGLIGEE, AND WORK SHIRTS. WALLCRAFT SHIRT CO. INC., New Haven, Conn.
Filed April 5, 1923. Serial No. 178,646. PUBLISHED AUGUST 28, 1923.

175,740. WRITING INK. DELLO INK CORP., New York, N. Y.
Filed April 6, 1923. Serial No. 178,658. PUBLISHED AUGUST 21, 1923.

175,741. WRITING INK. DELLO INK CORP., New York, N. Y.
Filed April 6, 1923. Serial No. 178,659. PUBLISHED AUGUST 21, 1923.

175,742. DIRECTORIES PUBLISHED SEMIANNUALLY. TEL-U-WHERE CO. OF AMERICA, Boston, Mass.
Filed April 6, 1923. Serial No. 178,693. PUBLISHED AUGUST 28, 1923.

175,743. COFFEE. THOMAS J. WEBB COMPANY, Chicago, Ill.
Filed April 7, 1923. Serial No. 178,787. PUBLISHED SEPTEMBER 4, 1923.

175,744. COFFEE. THOMAS J. WEBB COMPANY, Chicago, Ill.
Filed April 7, 1923. Serial No. 178,789. PUBLISHED SEPTEMBER 4, 1923.

175,745. CERTAIN NAMED CANNED GOODS AND CONDIMENTS. COMLY, FLANIGEN COMPANY, Philadelphia, Pa.
Filed April 25, 1922. Serial No. 162,870. PUBLISHED AUGUST 28, 1923.

175,746. CERTAIN NAMED SOAPS, COMPOUNDS USED IN SHAVING, AND POLISHING MATERIALS. WILLIAM H. JOHNSON, New York, N. Y., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md., a Corporation of New Jersey.
Filed April 26, 1922. Serial No. 162,928. PUBLISHED AUGUST 8, 1922.

175,747. CERTAIN NAMED ELECTRICAL APPARATUS. MANNESMANNRÖHREN-WERKE, Dusseldorf, Germany.
Filed May 11, 1922. Serial No. 163,693. PUBLISHED AUGUST 7, 1923.

175,748. PHONOGRAPHS. ELISHA L. CORLE, Hutchinson, Kans.
Filed May 20, 1922. Serial No. 164,157. PUBLISHED AUGUST 21, 1923.

175,749. MARMALADE AND JELLIES. NORMA A. TWAITS, Jersey City, N. J.
Filed June 7, 1922. Serial No. 165,169. PUBLISHED AUGUST 28, 1923.

175,750. PHONOGRAPHS. CHAUTAUQUA PHONOGRAPH COMPANY, INC., Wilmington, Del., and Washington, D. C.
Filed June 16, 1922. Serial No. 165,580. PUBLISHED AUGUST 21, 1923.

175,751. ASSEMBLED RADIO TRANSMITTING AND RECEIVING SETS. THE AEOLIAN COMPANY, New York, N. Y.
Filed June 27, 1922. Serial No. 166,124. PUBLISHED AUGUST 21, 1923.

175,752. CUTS, EMBLEMS, AND COLLAR DEVICES. MILITARY ORDER OF THE COOTIE, New York and Brooklyn, N. Y.
Filed June 30, 1922. Serial No. 166,316. PUBLISHED SEPTEMBER 4, 1923.

175,753. AUXILIARY ENGINES FOR LOCOMOTIVES. FRANKLIN RAILWAY SUPPLY COMPANY, New York, N. Y.
Filed July 13, 1922. Serial No. 166,825. PUBLISHED JULY 3, 1923.

175,754. MESH BAGS COMPRISED WHOLLY OR IN PART OF PRECIOUS METAL. WHITING & DAVIS COMPANY, Plainville, Mass.
Filed August 24, 1922. Serial No. 168,662. PUBLISHED AUGUST 7, 1923.

175,755. RADIO RECEIVING SETS. JACKSON & FINKENAUR, New York, N. Y.
Filed August 31, 1922. Serial No. 168,925. PUBLISHED AUGUST 21, 1923.

175,756. TOOLS AND APPLIANCES FOR READJUSTING, REMOVING, REPAIRING, AND REPLACING PARTS AND PORTIONS OF AUTOMOTIVE VEHICLES. LOUIS SCHWAB, doing business as Stevens & Co., New York, N. Y.
Filed August 29, 1922. Serial No. 168,857. PUBLISHED AUGUST 28, 1923.

175,757. CHOP-SUEY SAUCE. L. C. CHAN & COMPANY, San Francisco, Calif.
Filed August 28, 1922. Serial No. 168,753. PUBLISHED SEPTEMBER 4, 1923.

175,758. LEVELS. THE STANLEY WORKS, New Britain, Conn.
Filed November 20, 1922. Serial No. 172,296. PUBLISHED AUGUST 28, 1923.

175,759. POP-CORN CONFECTION. RICH-MAID MFG. CO. INC., Richmond, Va.
Filed November 10, 1922. Serial No. 171,817. PUBLISHED AUGUST 21, 1923.

175,760. ARTICLE MADE OF CANVAS OR OTHER FABRIC HAVING METAL CROSS STRIPS AND ROLLER. ROLUP SCREEN COMPANY, Wilmington, Del., and New York, N. Y.
Filed November 2, 1922. Serial No. 171,511. PUBLISHED SEPTEMBER 4, 1923.

175,761. CERTAIN NAMED UNDERWEAR. ORENT'S DEPARTMENT STORE, INC., doing business as Sagamore Commission Co., Sagamore, Mass., and New York, N. Y.
Filed October 24, 1922. Serial No. 171,136. PUBLISHED AUGUST 28, 1923.

175,762. ADHESIVE TAPE FOR ELECTRICAL PURPOSES. BAKER, HAMILTON AND PACIFIC COMPANY, San Francisco, Calif.
Filed October 6, 1922. Serial No. 170,355. PUBLISHED AUGUST 7, 1923.

175,763. CARPENTERS' STEEL SQUARES, FAMILY WEIGHING SCALES, SHINGLING-HATCHET GAUGES, SLIDING T BEVELS & TRY-SQUARES. BAKER, HAMILTON AND PACIFIC COMPANY, San Francisco, Calif.
Filed October 6, 1922. Serial No. 170,350. PUBLISHED AUGUST 28, 1923.

175,764. RACKS FOR SUPPORTING MUSICAL INSTRUMENTS WHEN NOT IN USE. SAXRAC COMPANY, Los Angeles, Calif.
Filed September 16, 1922. Serial No. 169,530. PUBLISHED AUGUST 21, 1923.

175,765. CERTAIN NAMED CLOTHING. THE MEYER-WISE & KAICHEN COMPANY, Cincinnati, Ohio.
Filed March 6, 1923. Serial No. 177,045. PUBLISHED AUGUST 28, 1923.

175,766. FRESH AND PRESERVED FRUITS—NAMELY, FRESH GRAPES AND DEHYDRATED GRAPES. PACIFIC-ITALIAN TRADING CORPORATION, San Francisco, Calif.
Filed Mar. 6, 1923. Serial No. 177,046. PUBLISHED AUGUST 28, 1923.

175,767. KNITTED AND TEXTILE UNDERWEAR IN ONE AND TWO PIECE GARMENTS. MANNY-RIELLY CO., New York, N. Y.
Filed March 8, 1923. Serial No. 177,135. PUBLISHED AUGUST 28, 1923.

175,768. HOSIERY. SCOT KNIT HOSIERY COMPANY, Harrisburg, Pa.
Filed March 6, 1923. Serial No. 177,053. PUBLISHED AUGUST 21, 1923.

175,769. ELECTRIC WASHING MACHINES. UNITED APPLIANCE COMPANY, Jackson, Mich.
Filed March 10, 1923. Serial No. 177,253. PUBLISHED SEPTEMBER 4, 1923.

175,770. CERTAIN NAMED MUSICAL INSTRUMENTS AND SUPPLIES THEREFOR. THE CIACLE MUSIC PUBLISHING COMPANY, Cincinnati, Ohio.
Filed March 10, 1923. Serial No. 177,216. PUBLISHED AUGUST 21, 1923.

175,771. BOOKLETS OR PAMPHLETS. THE AMERICAN RADIO RELAY LEAGUE, INC., Hartford, Conn.
Filed March 9, 1923. Serial No. 177,159. PUBLISHED AUGUST 21, 1923.

175,772. FRESH CITROUS FRUIT AND FRESH GRAPE FRUIT. W. P. PEYTON FRUIT CO., Los Angeles, Calif.
Filed March 22, 1923. Serial No. 177,863. PUBLISHED AUGUST 14, 1923.

175,773. BAKING OVENS HEATED BY GAS, ALCOHOL, STEAM, GASOLINE, OR WOOD USED IN THE PREPARATION AND BAKING OF BREAD AND SIMILAR PRODUCTS. BAKER-PERKINS MANUFACTURING CORPORATION, Saginaw, Mich.
Filed March 17, 1923. Serial No. 177,581. PUBLISHED AUGUST 21, 1923.

175,774. WASHBOILERS. RALPH ISRAEL, doing business as Anthracite Supply Company, Wilkes-Barre, Pa.
Filed March 14, 1923. Serial No. 177,439. PUBLISHED SEPTEMBER 4, 1923.

175,775. GRANULATED SUGAR. SCHWABACHER BROS. & CO., INCORPORATED, Seattle, Wash.
Filed March 13, 1923. Serial No. 177,412. PUBLISHED AUGUST 28, 1923.

175,776. CANNED PEAS, CORN, TOMATOES, AND PINEAPPLE. THE CINCINNATI WHOLESALE GROCERY COMPANY, Cincinnati, Ohio.
Filed March 13, 1923. Serial No. 177,361. PUBLISHED SEPTEMBER 4, 1923.

175,777. PEANUT BUTTER. KIDD AND COMPANY, INC., Chicago, Ill.
Filed March 12, 1923. Serial No. 177,304. PUBLISHED AUGUST 14, 1923.

175,778. FRESH CITROUS FRUITS—NAMELY, ORANGES, GRAPEFRUIT, KUMQUATS, MANDARINS, SATSUMAS, AND TANGERINES. DADE CITY CITRUS GROWERS ASSOCIATION, Dade City, Fla.
Filed March 12, 1923. Serial No. 177,279. PUBLISHED AUGUST 14, 1923.

175,779. ICE CREAM. BRIDGEMAN-RUSSELL CO., Duluth, Minn.
Filed March 12, 1923. Serial No. 177,268. PUBLISHED AUGUST 28, 1923.

175,780. SOAP. HASKINS BROTHERS & COMPANY, Sioux City, Iowa, and Omaha, Nebr.
Filed April 5, 1923. Serial No. 178,609. PUBLISHED AUGUST 21, 1923.

175,781. PRAYER AND MOTTO CARDS. WARWICK G. BATE, Newton Falls, Ohio.
Filed April 4, 1923. Serial No. 178,544. PUBLISHED AUGUST 21, 1923.

175,782. KNITTED UNDERWEAR, NAINSOOK UNDERWEAR, AND COTTON AND WOOL SWEATERS FOR MEN AND WOMEN. O. L. STANARD DRY GOODS CO., Huntington, W. Va.
Filed March 31, 1923. Serial No. 178,412. PUBLISHED AUGUST 28, 1923.

175,783. COAL, WOOD, AND GAS COOKING AND HEATING STOVES AND RANGES FOR COAL-BURNING FURNACES AND FOR GAS AND COAL HOT-WATER HEATERS. THE KEELEY STOVE COMPANY, Columbia, Pa.
Filed March 31, 1923. Serial No. 178,392. PUBLISHED SEPTEMBER 4, 1923.

175,784. TOWEL CABINETS. JOSEPH N. BORROUGHS, Oakland, Calif.
Filed March 26, 1923. Serial No. 178,023. PUBLISHED AUGUST 28, 1923.

175,785. [WITHDRAWN.]

175,786. MOUTH HARMONICAS. M. HOHNER, New York, N. Y.
Filed April 27, 1923. Serial No. 179,794. PUBLISHED AUGUST 21, 1923.

175,787. CHOCOLATES AND CANDY. E. GREENFIELD'S SONS, New York and Brooklyn, N. Y.
Filed April 27, 1923. Serial No. 179,790. PUBLISHED SEPTEMBER 4, 1923.

175,788. METALLIC AND NONMETALLIC GEARS. RALPH N. BRODIE, doing business as Ralph N. Brodie Co., Oakland, Calif.
Filed April 26, 1923. Serial No. 179,764. PUBLISHED AUGUST 28, 1923.

175,789. HOSIERY, UNDERWEAR FOR MEN, WOMEN, AND CHILDREN OF KNITTED AND TEXTILE FABRIC, AND SWEATERS. WEBER LEVY COMPANY, New York, N. Y.
Filed April 26, 1923. Serial No. 179,759. PUBLISHED AUGUST 28, 1923.

175,790. LARD. F. G. VOGT & SONS, INC., Philadelphia, Pa.
Filed April 26, 1923. Serial No. 179,757. PUBLISHED SEPTEMBER 4, 1923.

175,791. LARD. F. G. VOGT & SONS, INC., Philadelphia, Pa.
Filed April 26, 1923. Serial No. 179,756. PUBLISHED SEPTEMBER 4, 1923.

175,792. PERIODICAL PUBLICATION. NORRISTOWN HERALD PRINTING AND PUBLISHING CO., Norristown, Pa.
Filed April 26, 1923. Serial No. 179,738. PUBLISHED AUGUST 28, 1923.

175,793. OVERCOATS, RAINCOATS, SMOKING JACKETS, HOUSE COATS, NORFOLK JACKETS, TOPCOATS, GOLF SUITS AND SPORT SUITS. HEIDELBERG, WOLFF & CO., New York, N. Y.
Filed April 26 1923. Serial No. 179,723. PUBLISHED AUGUST 28, 1923.

175,794. FRESH TOMATOES. NATHAN GOLDSMITH, New York, N. Y.
Filed April 25, 1923. Serial No. 179,664. PUBLISHED SEPTEMBER 4, 1923.

175,795. HOSIERY. BERENDSEN SILK KNITTING CO., Bangor, Pa.
Filed April 25, 1923. Serial No. 179 647. PUBLISHED AUGUST 28, 1923.

175,796. HOSIERY. BERENDSEN SILK KNITTING CO., Bangor, Pa.
Filed April 25, 1923. Serial No. 179,646. PUBLISHED AUGUST 28, 1923.

175,797. CERTAIN NAMED RADIO APPARATUS. GEORGE KENNETH THOMPSON, Boston, Mass.
Filed April 24, 1923. Serial No. 179,630. PUBLISHED AUGUST 21, 1923.

175,798. CERTAIN NAMED PIANOS AND PHONOGRAPHS. FREDERICK PIANO COMPANY, New York, N. Y.
Filed April 24, 1923. Serial No. 179,594. PUBLISHED AUGUST 21, 1923.

175,799. RADIO RECEIVING SETS AND RADIO TRANSMITTING SETS AND THE VARIOUS PARTS THEREOF USED IN ASSEMBLING SUCH SETS AND RADIO HEAD PHONES. HAROLD R. WAKEM, doing business as Harold R. Wakem & Co., Chicago, Ill.
Filed April 23, 1923. Serial No. 179,567. PUBLISHED AUGUST 21, 1923.

175,800. FRESH LIMES AND LEMONS. LESTER A. STRAUSS, New York, N. Y.
Filed April 21, 1923. Serial No. 179,493. PUBLISHED SEPTEMBER 4, 1923.

175,801. CANNED VEGETABLES. SAN JOSE CANNING CO., San Jose, Calif.
Filed April 21, 1923. Serial No. 179,484. PUBLISHED SEPTEMBER 4, 1923.

175,802. REFRACTORY CEMENTS AND PROTECTIVE PLASTER COATINGS. FURNASEAL MFG. CO., Chicago, Ill.
Filed April 20, 1923. Serial No. 179,405. PUBLISHED SEPTEMBER 4, 1923.

175,803. CHARCOAL. NEW JERSEY CHARCOAL CO. INC., Irvington, N. J.
Filed April 19, 1923. Serial No. 179,379. PUBLISHED SEPTEMBER 4, 1923.

175,804. MONTHLY MAGAZINE. THE KEYSTONE PUBLISHING CO., Philadelphia, Pa.
Filed April 19, 1923. Serial No. 179,374. PUBLISHED AUGUST 28, 1923.

175,805. PIPE COATING, ACIDPROOF TANK LINING, EXPANSION JOINT, REFRIGERATOR COMPOUND. STANDARD ASPHALT & REFINING COMPANY, Jersey City, N. J., and Chicago, Ill.
Filed May 3, 1920. Serial No. 131,987. PUBLISHED SEPTEMBER 4, 1923.

175,806. PLAYER PIANOS, PHONOGRAPHS, AND RECORDS FOR PHONOGRAPHS. THE STARR PIANO COMPANY, Richmond, Ind.
Filed August 3, 1920. Serial No. 135,764. PUBLISHED AUGUST 7, 1923.

175,807. PISTON RINGS. SPYROSEAL MANUFACTURING COMPANY, St. Louis, Mo.
Filed January 31, 1921. Serial No. 143,017. PUBLISHED SEPTEMBER 4, 1923.

175,808. TIME-INDICATING APPARATUS—NAMELY, CLOCKS. WARREN CLOCK COMPANY, Ashland, Mass.
Filed March 3, 1921. Serial No. 144,303. PUBLISHED AUGUST 7, 1923.

175,809. CERTAIN NAMED HARDWARE, PLUMBING, AND STEAM-FITTING SUPPLIES. MARTIN BEHRER, doing business as Behrer & Company, New York, N. Y.
Filed March 19, 1921. Serial No. 144,958. PUBLISHED AUGUST 28, 1923.

175,810. GLOVES AND MITTENS MADE OF TEXTILE FABRIC, KNITTED FABRIC, LEATHER AND COMBINATION OF LEATHER AND TEXTILE FABRIC. WESTERN HOSIERY COMPANY, Chicago, Ill.
Filed May 7, 1921. Serial No. 147,383. PUBLISHED OCTOBER 17, 1922.

175,811. WATCHES. STEIN & ELLBOGEN COMPANY, Chicago, Ill.
Filed July 21, 1921. Serial No. 150,779. PUBLISHED AUGUST 21, 1923.

175,812. BREAD. CALIFORNIA BAKERY COMPANY, Bisbee, Ariz.
Filed September 19, 1921. Serial No. 153,076. PUBLISHED AUGUST 14, 1923.

175,813. CERTAIN NAMED JEWELRY AND SILVERWARE. THE RALPH J. GILLETT IMPORTING COMPANY, Cleveland, Ohio.
Filed October 26, 1921. Serial No. 154,589. PUBLISHED AUGUST 21, 1923.

175,814. BOOKS AND PAMPHLETS OF AN EDUCATIONAL NATURE PUBLISHED FROM TIME TO TIME. LIFE PLANNING INSTITUTE, Chicago, Ill.
Filed December 23, 1921. Serial No. 157,069. PUBLISHED AUGUST 21, 1923.

175,815. MISSES' DRESSES. DOLLY MADISON DRESSES, INC., New York, N. Y.
Filed January 11, 1922. Serial No. 157,760. PUBLISHED AUGUST 21, 1923.

175,816. PHOTO PRINTS. NATIONAL PROCESS COMPANY, INC., New York, N. Y.
Filed January 26, 1922. Serial No. 158,487. PUBLISHED JULY 31, 1923.

175,817. CANDY. FROZEN FRUIT, INC., Harrisburg, Pa.
Filed February 9, 1922. Serial No. 159,088. PUBLISHED AUGUST 14, 1923.

175,818. CONFECTION IN BAR FORM COMPRISING FRUITS, NUTS, POP CORN, AND A SUITABLE BINDER. SAMUEL N. SPERBER, doing business as Evertasty Confection Co., Albany, N. Y.
Filed February 18, 1922. Serial No. 159,533. PUBLISHED SEPTEMBER 4, 1923.

175,819. PUBLICATIONS PUBLISHED PERIODICALLY EVERY THREE MONTHS. DAVID LOESER, doing business as New York Intravenous Laboratory, East Orange, N. J., and New York, N. Y.
Filed March 4, 1922. Serial No. 160,196. PUBLISHED AUGUST 21, 1923.

175,820. CORNETS. LYON & HEALY, Chicago, Ill., assignor to Lyon & Healy, Inc., Chicago, Ill., a Corporation of Illinois.
Filed March 27, 1922. Serial No. 161,325. PUBLISHED AUGUST 7, 1923.

175,821. ENGINE GOVERNORS. THE HYDRO GOVERNOR CO., Sandy Hook, Conn.
Filed April 7, 1922. Serial No. 161,882. PUBLISHED AUGUST 28, 1923.

175,822. RAW AND COOKED HAMS. THE SMITHFIELD COMPANY, INC., Smithfield, Va.
Filed April 12, 1922. Serial No. 162,216. PUBLISHED AUGUST 28, 1923.

175,823. EARTH CUTTING AND PLANING MACHINE. EDWARD G. CARR, Chicago, Ill.
Filed April 15, 1922. Serial No. 162,333. PUBLISHED AUGUST 28, 1923.

175,824. MATZOTHS. A. GOODMAN & SONS, INC., New York, N. Y.
Filed April 22, 1922. Serial No. 162,732. PUBLISHED SEPTEMBER 4, 1923.

175,825. WATERPROOF FABRICS. SCHWARZWAELDER COMPANY, Philadelphia, Pa.
Filed June 30, 1923. Serial No. 182,676. PUBLISHED SEPTEMBER 4, 1923.

175,826. MONUMENTAL BLOCKS OF GRANITE. PHILLIPS & SLACK, INC., Northfield, Vt.
Filed June 28, 1923. Serial No. 182,548. PUBLISHED SEPTEMBER 4, 1923.

175,827. SHOE AND SLIPPER TREES. JAMES N. MAYHEW CO., INC., Minneapolis, Minn.
Filed June 25, 1923. Serial No. 182,427. PUBLISHED SEPTEMBER 4, 1923.

175,828. FITTINGS FOR ELECTRIC CONDUITS COMPRISING END FITTINGS, ELBOW FITTINGS, T FITTINGS, COUPLING FITTINGS, AND JUNCTION BOXES. MARY W. JOHNSON, doing business as The Johnson Electric Mfg. Co., Warren, R. I.
Filed June 18, 1923. Serial No. 182,152. PUBLISHED AUGUST 21, 1923.

175,829. CANNED SAUERKRAUT. THE BELLEVUE KRAUT & PICKLING CO., Bellevue, Ohio.
Filed June 18, 1923. Serial No. 182,125. PUBLISHED SEPTEMBER 4, 1923.

175,830. RUBBER SHEETING. A. STEIN & COMPANY, Chicago, Ill.
Filed July 9, 1923. Serial No. 183,005. PUBLISHED SEPTEMBER 4, 1923.

175,831. FIR DOORS, MOLDINGS, VENEERED PANELS, PLY WOOD, SASH, COLUMNS, AND LUMBER. THE WHEELER, OSGOOD COMPANY, Tacoma, Wash.
Filed June 14, 1923. Serial No. 182,027. PUBLISHED SEPTEMBER 4, 1923.

175,832. ADVERTISING SIGNS. THE COTT-A-LAP COMPANY, Somerville, N. J.
Filed June 14, 1923. Serial No. 181,980. PUBLISHED SEPTEMBER 4, 1923.

175,833. CEDAR CHESTS. HILL-HOEL MFG. CO., South Bend, Ind.
Filed June 13, 1923. Serial No. 181,944. PUBLISHED AUGUST 21, 1923.

175,834. FRESH DECIDUOUS FRUITS. COOPS BROS., Sonoma, Calif.
Filed June 12, 1923. Serial No. 181,881. PUBLISHED SEPTEMBER 4, 1923.

175,835. CANDY. CARDINET CANDY COMPANY, Oakland, Calif.
Filed June 12, 1923. Serial No. 181,878. PUBLISHED SEPTEMBER 4, 1923.

175,836. MATTRESSES. THE MARSHALL VENTILATED MATTRESS CO. LIMITED, Toronto, Ontario, Canada.
Filed June 11, 1923. Serial No. 181,838. PUBLISHED AUGUST 28, 1923.

175,837. CANDY. CHARTER CHOCOLATE COMPANY, Boston, Mass.
Filed June 11, 1923. Serial No. 181,816. PUBLISHED SEPTEMBER 4, 1923.

175,838. TIRES MADE OF RUBBER AND RUBBER AND FABRIC. THE MILLER RUBBER COMPANY, Akron, Ohio.
Filed June 9, 1923. Serial No. 181,762. PUBLISHED SEPTEMBER 4, 1923.

175,839. ARCH SUPPORTS, FOOT CUSHIONS, HEEL CUSHIONS, FOOT PADS, AND INSOLES FOR BOOTS AND SHOES. THE THOMPSON-BARLOW COMPANY, INC., New York, N. Y.
Filed June 8, 1923. Serial No. 181,707. PUBLISHED AUGUST 28, 1923.

175,840. CERTAIN NAMED ELECTRICAL DEVICES. THE SINGER MANUFACTURING COMPANY, New York, N. Y., and Elizabeth, N. J.
Filed June 8, 1923. Serial No. 181,703. PUBLISHED SEPTEMBER 4, 1923.

175,841. HYDROMETERS. GILBERT I. STADEKER, doing business as Stadeker Mfg. Co., Chicago, Ill.
Filed May 31, 1923. Serial No. 181,423. PUBLISHED AUGUST 28, 1923.

175,842. ELECTRIC MOTORS AND PARTS THEREOF. H. B. SHERMAN MANUFACTURING CO., Battle Creek, Mich.
Filed May 26, 1923. Serial No. 181,223. PUBLISHED SEPTEMBER 4, 1923.

175,843. CERTAIN NAMED RADIO APPARATUS. ALDEN MANUFACTURING COMPANY, Springfield, Mass.
Filed May 22, 1923. Serial No. 180,953. PUBLISHED SEPTEMBER 4, 1923.

175,844. WATCHES. JOSEPH DAVING, New York, N. Y.
Filed May 17, 1923. Serial No. 180,754. PUBLISHED AUGUST 21, 1923.

175,845. PORTABLE ELECTRIC LAMPS. BUSSMANN MANUFACTURING COMPANY, St. Louis, Mo.
Filed May 17, 1923. Serial No. 180,746. PUBLISHED AUGUST 21, 1923.

175,846. PHONOGRAPH-RECORD-DISPLAY STANDS. MUSICAL PRODUCTS DISTRIBUTING CO. INC., New York, N. Y.
Filed May 16, 1923. Serial No. 180,715. PUBLISHED AUGUST 28, 1923.

175,847. GAS RANGES. WINCROFT STOVE WORKS, Middletown, Pa.
Filed May 14, 1923. Serial No. 180,636. PUBLISHED SEPTEMBER 4, 1923.

175,848. PERFORATED MUSIC ROLLS. NICHOLAS CARDILLI, New York, N. Y.
Filed May 14, 1923. Serial No. 180,584. PUBLISHED AUGUST 21, 1923.

175,849. CANDY. THE DE KLYN CANDY COMPANY, Cleveland, Ohio.
Filed May 12, 1923. Serial No. 180,530. PUBLISHED AUGUST 28, 1923.

175,850. GEARS AND SHAFTS. AMERICAN GEAR COMPANY, Jackson, Mich.
Filed May 11, 1923. Serial No. 180,461. PUBLISHED AUGUST 28, 1923.

175,851. LINEN FIRE HOSE. WM. & CHAS. BECK, INC., Lawrence, Mass.
Filed March 3, 1923. Serial No. 176,874. PUBLISHED AUGUST 7, 1923.

175,852. EDIBLE ANIMAL AND VEGETABLE OILS AND FATS AND COMBINATIONS THEREOF. THE AMERICAN COTTON OIL COMPANY, Union Township, near Guttenberg, N. J., and New York, N. Y.
Filed February 28, 1923. Serial No. 176,709. PUBLISHED AUGUST 28, 1923.

175,853. OVERALLS AND OVERALL COATS. DOE RIVER OVERALL COMPANY, Elizabethton, Tenn.
Filed February 26, 1923. Serial No. 176,608. PUBLISHED AUGUST 28, 1923.

175,854. TIES, CRAVATS, FOUR-IN-HAND TIES, AND BOW TIES. FRIEDMAN BROS. & SONS NECKWEAR CO., INC., New York, N. Y.
Filed February 21, 1923. Serial No. 176,402. PUBLISHED AUGUST 21, 1923.

175,855. MONTHLY AND ANNUAL PUBLICATION. INTERNATIONAL TRADE DEVELOPER, INC., Chicago, Ill.
Filed February 17, 1923. Serial No. 176,187. PUBLISHED AUGUST 21, 1923.

175,856. FRESH FISH WHICH HAVE BEEN SUBJECTED TO A PICKLING SOLUTION, THEN WRAPPED AND CANNED OR BOXED. WHITMAN, WARD & LEE CO., Boston, Mass.
Filed February 16, 1923. Serial No. 176,147. PUBLISHED JULY 17, 1923.

175,857. COMMON PINS AND COMMON TOILET PINS. THE WILLIAM PRYM COMPANY, LIMITED, Stolberg, Germany.
Filed February 13, 1923. Serial No. 175,997. PUBLISHED AUGUST 28, 1923.

175,858. WATCHCASES. JOSEPH FAHYS & COMPANY, New York, N. Y.
Filed February 9, 1923. Serial No. 175,777. PUBLISHED AUGUST 28, 1923.

175,859. COAL AND GAS STOVES AND RANGES. PERFECT STOVE & MANUFACTURING CO., Belleville, Ill.
Filed February 8, 1923. Serial No. 175,732. PUBLISHED SEPTEMBER 4, 1923.

175,860. OLIVE OIL. HYMAN KARLIN, New York, N. Y.
Filed February 3, 1923. Serial No. 175,497. PUBLISHED AUGUST 14, 1923.

175,861. WOMEN'S MUSLIN UNDERWEAR. GUTMAN BROS., New York, N. Y.
Filed February 3, 1923. Serial No. 175,489. PUBLISHED AUGUST 28, 1923.

175,862. WORK SHIRTS. J. D. SILBERSTEIN & SONS, INC., New York, N. Y.
Filed February 2, 1923. Serial No. 175,442. PUBLISHED AUGUST 28, 1923.

175,863. DRESS SHIRTS. J. D. SILBERSTEIN & SONS, INC., New York, N. Y.
Filed February 2, 1923. Serial No. 175,441. PUBLISHED AUGUST 28, 1923.

175,864. COLUMN OF NEWS IN ITS NEWSPAPER, SAID COLUMN APPEARING FROM TIME TO TIME. TIMES PRINTING COMPANY OF SEATTLE, Seattle, Wash.
Filed February 1, 1923. Serial No. 175,416. PUBLISHED JULY 31, 1923.

175,865. WRITING INKS. CLARENCE GEORGE HICKOK, doing business as Scribner's Ink Co., Portland, Oreg.
Filed January 30, 1923. Serial No. 175,312. PUBLISHED AUGUST 21, 1923.

175,866. CERTAIN NAMED RADIO APPARATUS. DALE, FORTY & CO., LTD., London, England.
Filed January 30, 1923. Serial No. 175,304. PUBLISHED AUGUST 21, 1923.

175,867. ELECTRIC SUCTION SWEEPERS. THE HOOVER COMPANY, North Canton, Ohio.
Filed January 29, 1923. Serial No. 175,244. PUBLISHED AUGUST 7, 1923.

175,868. SILVER-PLATED HOLLOW WARE. FARBER BROTHERS, New York, N. Y.
Filed January 27, 1923. Serial No. 175,191. PUBLISHED SEPTEMBER 4, 1923.

175,869. CAKE CONES. ACME CONE CO., Philadelphia, Pa.
Filed January 27, 1923. Serial No. 175,177. PUBLISHED AUGUST 28, 1923.

175,870. CENTRIFUGAL OIL PURIFIERS OR OIL SEPARATORS. KOEFOED, HAUBERG, MARSTRAND & HELWEG, AKTIESELSKABET TITAN, Copenhagen, Denmark.
Filed March 6, 1923. Serial No. 177,042. PUBLISHED AUGUST 28, 1923.

175,871. SOAPS. LIGHTFOOT SCHULTZ COMPANY, Hoboken, N. J.
Filed April 13, 1923. Serial No. 179,107. PUBLISHED AUGUST 21, 1923.

175,872. NEWS BAGS, APRONS, USED PRIMARILY AS BAGS OR RECEPTACLES, AND COAL BAGS, ALL MADE OF CANVAS. THE ALLIED BELTING COMPANY, Greenville, Ohio.
Filed April 14, 1923. Serial No. 179,128. PUBLISHED SEPTEMBER 4, 1923.

175,873. CORDS, TWINES, ROPES, AND LINES OF FIBER MATERIAL MADE FROM COTTON, HEMP, MANILA, SISAL OR JUTE. GRANITE CORDAGE COMPANY, Granite Falls and Hickory, N. C.
Filed April 16, 1923. Serial No. 179,196. PUBLISHED SEPTEMBER 4, 1923.

175,874. SOAP. HASKINS BROS. & COMPANY, Sioux City, Iowa.
Filed April 16, 1923. Serial No. 179,201. PUBLISHED SEPTEMBER 4, 1923.

175,875. CERTAIN NAMED JEWELRY. FR. SPEIDEL, Pforzheim, Germany, and Providence, R. I.
Filed April 17, 1923. Serial No. 179,285. PUBLISHED AUGUST 7, 1923.

175,876. ASPHALT MINERAL-SURFACED ROOFING. THE CONTINENTAL ROOFING & MANUFACTURING CO., Highlandtown, Baltimore, Md.
Filed May 2, 1923. Serial No. 180,050. PUBLISHED SEPTEMBER 4, 1923.

175,877. A ROOFING MATERIAL. THE CONTINENTAL ROOFING & MANUFACTURING CO., Highlandtown, Baltimore, Md.
Filed May 2, 1923. Serial No. 180,051. PUBLISHED SEPTEMBER 4, 1923.

175,878. FANCY BAGS OF CLOTH. HETTIE JAMES DUDLEY, Richmond, Va.
Filed May 2, 1923. Serial No. 180,056. PUBLISHED SEPTEMBER 4, 1923.

175,879. INSTRUMENTS FOR AIDING THE HEARING. F. CHARLES REIN & SON, AMERICA, INC., New York, N. Y.
Filed May 2, 1923. Serial No. 180,080. PUBLISHED SEPTEMBER 4, 1923.

175,880. PRINTED ADVERTISING MATTER SOLD TO THE TRADE AS SUCH—NAMELY, BOOKLETS. FRANK ROMER, Washington, D. C.
Filed May 5, 1923. Serial No. 180,239. PUBLISHED AUGUST 21, 1923.

175,881. SHOE POLISH, DRESSINGS, AND CLEANERS. LOUIS VORGIAS, Chicago, Ill.
Filed May 8, 1923. Serial No. 180,348. PUBLISHED AUGUST 21, 1923.

175,882. GRINDING WHEELS AND GRINDING DISKS. JOHAN CHRISTIAN SCHMIDT, Copenhagen, Denmark.
Filed May 9, 1923. Serial No. 180,391. PUBLISHED AUGUST 21, 1923.

175,883. SOAP COMPOUNDS. CHARLES E. EWING, doing business as Ewing Kutzit Soap Manufacturing Company, Lincoln, Nebr.
Filed May 10, 1923. Serial No. 180,424. PUBLISHED AUGUST 21, 1923.

175,884. PREPARATION FOR CLEANING CLOTHES AND FABRICS. MUELLER & GOETZ, Galion, Ohio.
Filed May 10, 1923. Serial No. 180,452. PUBLISHED AUGUST 21, 1923.

175,885. CORRUGATED FIBER AND PAPER BOXES, ENVELOPES, WRAPPERS, PACKING CASES, AND CORRUGATED PAPER BOARD. DAVID WEBER & CO., Philadelphia, Pa.
Filed May 11, 1923. Serial No. 180,512. PUBLISHED SEPTEMBER 4, 1923.

175,886. SOAP FOR DETERGENT PURPOSES AND SOAP MIXTURES FOR CLEANING FINISHED SURFACES. MAGNUS CHEMICAL COMPANY (INC.), Brooklyn, N. Y.
Filed May 12, 1923. Serial No. 180,543. PUBLISHED AUGUST 21, 1923.

175,887. SHOE BAGS, CLOTHES PROTECTORS, AND CLOTHESPIN APRONS. AL-LON MANUFACTURING COMPANY, INC., Baltimore, Md.
Filed May 15, 1923. Serial No. 180,647. PUBLISHED SEPTEMBER 4, 1923.

175,888. COMPOSITIONS FOR USE AS ADHESIVES FOR WOOD AND SIMILAR TYPES OF BLOCKS LAID AS FLOORING OR PAVING. CAPITAL RODEWITE COMPANY, INCORPORATED, South Washington, Va.
Filed May 15, 1923. Serial No. 180,653. PUBLISHED SEPTEMBER 4, 1923.

175,889. RADIO RECEIVING SETS AND PARTS THEREFOR. THE COLIN B. KENNEDY COMPANY, St. Louis, Mo.
Filed May 16, 1923. Serial No. 180,706. PUBLISHED AUGUST 21, 1923.

175,890. RADIO LIGHTNING ARRESTERS. HIGH TENSION SUPPLIES CO., Wilmington, Del.
Filed May 17, 1923. Serial No. 180,763. PUBLISHED AUGUST 21, 1923.

175,891. TOY TRANSFORMERS FOR TOY ELECTRIC VEHICLES AND TRAINS. THE LIONEL CORPORATION, New York, N. Y.
Filed March 15, 1920. Serial No. 129,731. PUBLISHED SEPTEMBER 4, 1923.

175,892. FERTILIZERS. U. S. INDUSTRIAL CHEMICAL CO., Baltimore, Md.
Filed December 18, 1920. Serial No. 141,284. PUBLISHED SEPTEMBER 4, 1923.

175,893. ELECTRIC-BATTERY SEPARATORS. INDIANAPOLIS MANUFACTURING COMPANY, Indianapolis, Ind.
Filed August 9, 1921. Serial No. 151,581. PUBLISHED SEPTEMBER 4, 1923.

175,894. PISTON RINGS. ALBERT B. CHANCE, doing business as Chance Company, Centralia, Mo.
Filed September 28, 1921. Serial No. 153,441. PUBLISHED SEPTEMBER 4, 1923.

175,895. LAUNDRY SOAP. HASKINS BROTHERS & COMPANY, doing business as Petroleum Soap Company, Omaha, Nebr.; Sioux City, Iowa; and St. Paul, Minn.
Filed January 27, 1923. Serial No. 175,194. PUBLISHED AUGUST 21, 1923.

175,896. RADIO TRANSMITTING AND RECEIVING SETS AND PARTS THEREOF AND ELECTRICAL VACUUM CLEANERS, COOKERS, TOASTERS, GRILLS, CURLING IRONS, FLATIRONS, STOVES, AND DISHWASHERS. CONTINENTAL RADIO & ELECTRIC CORPORATION, New York, N. Y.
Filed February 8, 1923. Serial No. 175,712. PUBLISHED SEPTEMBER 4, 1923.

175,897. MEDICINAL PREPARATION FOR THE TREATMENT OF PILES. NARCISSE LEMOINE, doing business as N. Lemoine Company, Framingham, Mass.
Filed February 15, 1923. Serial No. 176,083. PUBLISHED AUGUST 14, 1923.

175,898. PREPARATION FOR THE TREATMENT OF CATARRH. NARCISSE LEMOINE, doing business as N. Lemoine Company, Framingham, Mass.
Filed February 15, 1923. Serial No. 176,084. PUBLISHED AUGUST 14, 1923.

175,899. SOAP FOR SHAVING. COLGATE & COMPANY, Jersey City, N. J.
Filed February 19, 1923. Serial No. 176,250. PUBLISHED AUGUST 21, 1923.

175,900. TOILET SOAP. EMPIRE SOAP COMPANY, INC., New York, N. Y.
Filed March 3, 1923. Serial No. 176,890. PUBLISHED AUGUST 28, 1923.

175,901. TOILET SOAP. EMPIRE SOAP COMPANY, INC., New York, N. Y.
Filed March 3, 1923. Serial No. 176,889. PUBLISHED AUGUST 28, 1923.

175,902. WIND MUSICAL INSTRUMENTS. BESSON & CO. LTD., London, England.
Filed March 7, 1923. Serial No. 177,066. PUBLISHED AUGUST 21, 1923.

175,903. CERTAIN NAMED JEWELRY. FR. SPEIDEL, Pforzheim, Germany, and Providence, R. I.
Filed March 19, 1923. Serial No. 177,703. PUBLISHED AUGUST 7, 1923.

175,904. AN APPARATUS OR APPLIANCE FOR MASSAGING THE TEETH AND GUMS. ERNST UNNA, Harrogate, York, England.
Filed March 27, 1923. Serial No. 178,152. PUBLISHED SEPTEMBER 4, 1923.

175,905. LIQUID PREPARATION COMPOSED OF DRUGS AND CHEMICALS TO BE USED TO CLEANSE THE SCALP AND PRESERVE THE HAIR. HORACE F. CALLOW, doing business as Kekionga Scalp Tonic Company, Decatur, Ind.
Filed April 2, 1923. Serial No. 178,426. PUBLISHED AUGUST 21, 1923.

175,906. CERTAIN NAMED ABRASIVES. MARSHALL-WELLS COMPANY, Duluth, Minn.
Filed April 3, 1923. Serial No. 178,532. PUBLISHED AUGUST 21, 1923.

175,907. PLAYING CARDS. THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio.
Filed April 3, 1923. Serial No. 178,537. PUBLISHED AUGUST 21, 1923.

175,908. PLAYING CARDS. THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio.
Filed April 3, 1923. Serial No. 178,538. PUBLISHED AUGUST 21, 1923.

175,909. PLAYING CARDS. THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio.
Filed April 3, 1923. Serial No. 178,539. PUBLISHED AUGUST 21, 1923.

175,910. DENTAL ALLOY AND DENTAL GOLD AND SILVER. ELM REFINING COMPANY, Stamford, Conn.
Filed April 7, 1923. Serial No. 178,717. PUBLISHED SEPTEMBER 4, 1923.

175,911. RUBBER VEHICLE TIRES AND INNER TUBES AND REPAIRS FOR THE SAME. THE IDEAL TIRE AND RUBBER COMPANY, Cleveland, Ohio.
Filed November 26, 1921. Serial No. 155,967. PUBLISHED FEBRUARY 21, 1922.

175,912. CANNED CITROUS FRUITS — NAMELY, GRAPEFRUIT. FLORIDA CITRUS EXCHANGE, Tampa, Fla.
Filed April 28, 1923. Serial No. 179,862. PUBLISHED SEPTEMBER 4, 1923.

175,913. CERTAIN NAMED RADIO APPARATUS. ATWATER KENT MANUFACTURING COMPANY, Philadelphia, Pa.
Filed May 10, 1923. Serial No. 180,410. PUBLISHED AUGUST 21, 1923.

175,914. WEEKLY PUBLICATION. THE PATHFINDER PUBLISHING CO., Washington, D. C.
Filed May 9, 1923. Serial No. 180,387. PUBLISHED AUGUST 21, 1923.

175,915. MONTHLY MAGAZINE. NATIONAL RETAIL HARDWARE ASSOCIATION, Argos and South Bend, Ind.
Filed May 9, 1923. Serial No. 180,383. PUBLISHED SEPTEMBER 4, 1923.

175,916. CEDAR CHESTS. THE LANE CO., INC., Altavista, Va.
Filed May 9, 1923. Serial No. 180,377. PUBLISHED AUGUST 28, 1923.

175,917. ELECTRICALLY-DRIVEN LAUNDRY WASHING MACHINES FOR HOUSEHOLD AND COMMERCIAL USE. LANDERS, FRARY & CLARK, New Britain, Conn.
Filed May 9, 1923. Serial No. 180,376. PUBLISHED SEPTEMBER 4, 1923.

175,918. CLOTHES DRIERS, BALCONY CLOTHES DRIERS, YARD CLOTHES DRIERS, KITCHEN CLOTHES DRIERS, CABINET CLOTHES DRIERS. HILL CLOTHES DRYER CO., Worcester, Mass.
Filed May 7, 1923. Serial No. 180,282. PUBLISHED SEPTEMBER 4, 1923.

175,919. CERTAIN NAMED RADIO APPARATUS. GENERAL RADIO CORPORATION, Philadelphia, Pa.
Filed May 7, 1923. Serial No. 180,279. PUBLISHED AUGUST 7, 1923.

175,920. LAUNDRY BAGS OF NET MATERIAL. THE FRY BROS. COMPANY, Cincinnati, Ohio.
Filed May 7, 1923. Serial No. 180,277. PUBLISHED SEPTEMBER 4, 1923.

175,921. METAL DISKS FOR RECORDING THE HUMAN VOICE FOR REPRODUCTION UPON PHONOGRAPHIC OR OTHER REPRODUCING MACHINES. USINGA DISC CORPORATION, Brooklyn, N. Y.
Filed May 5, 1923. Serial No. 180,251. PUBLISHED AUGUST 7, 1923.

175,922. LUMBER, LATHS, MOLDINGS, SIDINGS. PELICAN BAY LUMBER COMPANY, Klamath Falls, Oreg.
Filed May 2, 1923. Serial No. 180,078. PUBLISHED SEPTEMBER 4, 1923.

175,923. GREEN MINERAL-SURFACED ROOFING. THE CONTINENTAL ROOFING & MANUFACTURING CO., Highlandtown, Baltimore, Md.
Filed May 2, 1923. Serial No. 180,049. PUBLISHED SEPTEMBER 4, 1923.

175,924. HOSIERY. TEX-CRAFT COMPANY, Reading, Pa.
Filed April 30, 1923. Serial No. 179,974. PUBLISHED AUGUST 28, 1923.

175,925. PHONOGRAPHS, PARTS THEREOF, AND PHONOGRAPH RECORDS. FADER F. NELSON, Los Angeles, Calif.
Filed April 30, 1923. Serial No. 179,948. PUBLISHED AUGUST 21, 1923.

175,926. STOCKINGS AND SOCKS. JOHN M. HALEY & CO. INC., New York, N. Y.
Filed April 30, 1923. Serial No. 179,938. PUBLISHED AUGUST 28, 1923.

175,927. KNITTED JACKETS, KNITTED COATS, KNITTED SWEATERS, KNITTED LEGGINGS, AND KNITTED GOLF STOCKINGS. ADOLPH BERGMAN, doing business as Osceola Knitting Mills, Philadelphia, Pa.
Filed April 30, 1923. Serial No. 179,923. PUBLISHED AUGUST 28, 1923.

175,928. FRESH LETTUCE. SAWDEY & HUNT, Los Angeles, Calif.
Filed April 28, 1923. Serial No. 179,885. PUBLISHED AUGUST 28, 1923.

175,929. UNDERWEAR OF KNITTED FABRIC. THE MARBLE MILLS, INC., Evanston, Ill.
Filed April 28, 1923. Serial No. 179,874. PUBLISHED AUGUST 28, 1923.

175,930. FINGER RINGS. HARRY E. KAPLAN, doing business as H. E. Kaplan & Co., Chicago, Ill.
Filed May 10, 1923. Serial No. 180,436. PUBLISHED AUGUST 28, 1923.

175,931. CERTAIN NAMED CLOTHING. CHARLES MUNTER, New York, N. Y.
Filed April 27, 1923. Serial No. 179,813. PUBLISHED AUGUST 28, 1923.

175,932. DAILY NEWSPAPER. A. H. BELO & COMPANY, INCORPORATED, Galveston and Dallas, Tex.
Filed January 22, 1923. Serial No. 174,882. PUBLISHED AUGUST 21, 1923.

175,933. DAILY NEWSPAPER. A. H. BELO & COMPANY, INCORPORATED, Galveston and Dallas, Tex.
Filed January 22, 1923. Serial No. 174,881. PUBLISHED AUGUST 21, 1923.

175,934. DAILY NEWSPAPER. A. H. BELO & COMPANY, INCORPORATED, Galveston, Tex.
Filed January 22, 1923. Serial No. 174,880. PUBLISHED AUGUST 21, 1923.

175,935. INFANTS' AND YOUNG CHILDREN'S APPAREL. SEYMOUR ROUFF, doing business as Maison Rouff, New Orleans, La.
Filed January 20, 1923. Serial No. 174,864. PUBLISHED AUGUST 28, 1923.

175,936. CORRESPONDENCE COURSES IN APPLIED ARTS, DECALCOMANIA TRANSFERS, AND PRINTED GREETING CARDS. HERBERT W. LAMB, doing business as Fireside Industries, Lagrange, Ind.
Filed January 18, 1923. Serial No. 174,742. PUBLISHED AUGUST 28, 1923.

175,937. PREPARATION FOR CLEANING ARTIFICIAL DENTURES. HOLLAND SPECIALTY COMPANY, Peoria, Ill.
Filed January 15, 1923. Serial No. 174,647. PUBLISHED JULY 24, 1923.

175,938. COFFEE. THE FITCH COMPANY, Youngstown, Ohio.
Filed January 13, 1923. Serial No. 174,565. PUBLISHED SEPTEMBER 4, 1923.

175,939. MEN'S TROUSERS, EXCEPTING RUBBER OR WATERPROOF TROUSERS. HOLLANDER-LEWIS CO., INC., Pittsburgh, Pa.
Filed January 11, 1923. Serial No. 174,447. PUBLISHED AUGUST 21, 1923.

175,940. VINEGAR. M. A. GEDNEY COMPANY, Minneapolis, Minn.
Filed December 26, 1922. Serial No. 173,826 PUBLISHED AUGUST 28, 1923.

175,941. PEARLS, PEARL NECKLACES, AND PEARL-MOUNTED JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. ESTHER C. SHAPIRO, doing business as American Diamond & Jewelry Co., Chicago, Ill.
Filed December 16, 1922. Serial No. 173,444. PUBLISHED AUGUST 21, 1923.

175,942. OUTER GARMENTS FOR FEMALE WEAR—NAMELY, SKIRTS, COATS, CAPES, CLOAKS, SUITS, WRAPS, AND TAILORED DRESSES. HORATIO SIMON & CO., New York, N. Y.
Filed December 14, 1922. Serial No. 173,339. PUBLISHED AUGUST 28, 1923.

175,943. OUTLET BOXES. ELECTRIC OUTLET COMPANY, INC., New York, N. Y.
Filed December 9, 1922. Serial No. 173,129. PUBLISHED AUGUST 7, 1923.

175,944. DOOR-KNOB FASTENERS. GRIPX, MANUFACTURING CO., Waunakee, Wis.
Filed December 8, 1922. Serial No. 173,079. PUBLISHED AUGUST 28, 1923.

175,945. SILK, COTTON, AND WOOLEN MEN'S UNDERWEAR IN UNION SUITS AND TWO-PIECE GARMENTS OF KNITTED AND TEXTILE FABRIC. ABRAHAM & STRAUS, INC., New York, N. Y.
Filed December 2, 1922. Serial No. 172,815. PUBLISHED AUGUST 28, 1923.

175,946. CANDY. MAISON BLANCHE CO., New Orleans, La.
Filed December 1, 1922. Serial No. 172,753. PUBLISHED AUGUST 28, 1923.

175,947. TEXTILE COTTON DRESSES FOR WOMEN, CHILDREN, AND INFANTS. LANCASTER MILLS, Clinton, Mass.
Filed December 1, 1922. Serial No. 172,747. PUBLISHED AUGUST 28, 1923.

175,948. TEXTILE ARTICLES—NAMELY, HOSIERY. THE PARAMOUNT KNITTING COMPANY, Chicago, Ill., assignor to Bear Brand Hosiery Co., of Chicago, Ill., a Corporation of Illinois.
Filed November 28, 1922. Serial No. 172,650. PUBLISHED AUGUST 28, 1923.

175,949. CERTAIN NAMED ELECTRICAL APPLIANCES. BRANFORD ELECTRIC COMPANY, INC., New York, N. Y.
Filed November 28, 1922. Serial No. 172,634. PUBLISHED AUGUST 21, 1923.

175,950. BICYCLES, TRICYCLES, AND PARTS THEREOF FOR ADULTS AND CHILDREN'S USE. WESTFIELD MANUFACTURING COMPANY, Westfield, Mass.
Filed November 23, 1922. Serial No. 172,456. PUBLISHED SEPTEMBER 4, 1923.

175,951. SEMIWEEKLY AGRICULTURAL NEWSPAPER. A. H. BELO & COMPANY, INCORPORATED, Galveston and Dallas, Tex.
Filed January 22, 1923. Serial No. 174,883. PUBLISHED AUGUST 21, 1923.

175,952. DRY GOODS—NAMELY, LINEN AND COTTON CLOTHS—AND WOOLEN BLANKETS. THE FARLEY HARVEY COMPANY, Boston, Mass.
Filed July 14, 1923. Serial No. 183,204. PUBLISHED SEPTEMBER 4, 1923.

175,953. FLAT-WHITE COATINGS FOR USE ON PLASTERED WALLS. TOCH BROTHERS, INCORPORATED, New York, N. Y.
Filed July 12, 1923. Serial No. 183,128. PUBLISHED SEPTEMBER 4, 1923.

175,954. BRASSIÈRES. CHAS. R. DE BEVOISE CO., Newark, N. J.
Filed January 24, 1923. Serial No. 175,010. PUBLISHED AUGUST 7, 1923.

175,955. MOTION-PICTURE FILMS. RADIOGRAMS, INC., Hollywood, Calif.
Filed June 27, 1922. Serial No. 166,150. PUBLISHED SEPTEMBER 4, 1923.

175,956. READY-MIXED PAINTS, VARNISHES, PAINT ENAMELS, STAINS, AND POLISHES FOR PAINTED AND LACQUERED SURFACES. CHARLES DRABEK, doing business as Painters Supply Co., Cleveland, Ohio.
Filed June 22, 1922. Serial No. 165,859. PUBLISHED SEPTEMBER 4, 1923.

175,957. KEROSENE AND LUBRICATING OILS. GILMORE PETROLEUM COMPANY, Los Angeles, Calif.
Filed July 7, 1922. Serial No. 166,558. PUBLISHED SEPTEMBER 4, 1923.

175,958. OIL CONDENSERS, HEAT EXCHANGERS, AND DEPHLEGMATORS. C. H. LEACH COMPANY, Boston, Mass.
Filed September 20, 1922. Serial No. 169,719. PUBLISHED AUGUST 21, 1923.

175,959. LEAD PENCILS AND CARPENTERS' PENCILS. BAKER, HAMILTON AND PACIFIC COMPANY, San Francisco, Calif.
Filed October 6, 1922. Serial No. 170,349. PUBLISHED AUGUST 28, 1923.

175,960. [WITHDRAWN.]

175,961. CERTAIN ARTICLES OF CLOTHING. ROBERT M. RAPHAEL, New York, N. Y.
Filed October 31, 1922. Serial No. 171,434. PUBLISHED AUGUST 28, 1923.

175,962. MEN'S, BOYS', AND CHILDREN'S CAPS. COOPER, DAVIDSON & KLEIN CAP COMPANY, St. Louis, Mo.
Filed November 2, 1922. Serial No. 171,486. PUBLISHED SEPTEMBER 4, 1923.

175,963. PAPER AND STATIONERY. CHICAGO PAPER COMPANY, Chicago, Ill.
Filed November 8, 1922. Serial No. 171,725. PUBLISHED AUGUST 28, 1923.

175,964. WOMEN'S DRESSES AND HOSIERY. ASSOCIATED MERCHANDISING CORPORATION, Newark, N. J., and New York, N. Y.
Filed November 17, 1922. Serial No. 172,194. PUBLISHED AUGUST 21, 1923.

175,965. WRITING TABLETS, COMPOSITION BOOKS, AND STUDENT NOTEBOOKS. OSBORN PAPER COMPANY, Marion, Ind.
Filed December 13, 1922. Serial No. 173,295. PUBLISHED AUGUST 28, 1923.

175,966. TIRE CASINGS. THE REPUBLIC RUBBER COMPANY, Youngstown, Ohio.
Filed December 13, 1922. Serial No. 173,300. PUBLISHED SEPTEMBER 4, 1923.

175,967. GASOLINE AND LUBRICATING OILS. SPEARS & RIDDLE CO., Wheeling, W. Va.
Filed January 18, 1923. Serial No. 174,756. PUBLISHED SEPTEMBER 4, 1923.

175,968. LEATHER GLOVES, GAUNTLETS, AND MITTENS. THE JOSEPH N. EISENDRATH COMPANY, Chicago, Ill.
Filed December 18, 1922. Serial No. 173,477. PUBLISHED JULY 24, 1923.

175,969. BOYS' AND MEN'S SWEATERS. GREATER MANHATTAN KNITTING MILLS, INC., New York, N. Y.
Filed April 19, 1922. Serial No. 162,545. PUBLISHED SEPTEMBER 4, 1923.

175,970. SAFETY RAZORS, SAFETY-RAZOR-BLADE-STROPPING MACHINES, AND SAFETY-RAZOR BLADES. NEWMARKET TRADING COMPANY, INC., New York, N. Y.
Filed March 27, 1922. Serial No. 161,332. PUBLISHED OCTOBER 31, 1922.

175,971. WEARING APPAREL FOR WOMEN AND CHILDREN, LOUNGING ROBES, AND SMOKING JACKETS. THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y.
Filed March 8, 1922. Serial No. 160,371. PUBLISHED SEPTEMBER 4, 1923.

175,972. MATCHES. JONKOPING OCH VULCANS TANDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed November 30, 1920. Serial No. 140,435. PUBLISHED AUGUST 28, 1923.

175,973. MATCHES. JONKOPING OCH VULCANS TANDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed November 30, 1920. Serial No. 140,437. PUBLISHED SEPTEMBER 4, 1923.

175,974. MATCHES. JONKOPING OCH VULCANS TANDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed November 30, 1920. Serial No. 140,439. PUBLISHED SEPTEMBER 4, 1923.

175,975. MATCHES. JONKOPING OCH VULCANS TANDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed November 30, 1920. Serial No. 140,444. PUBLISHED SEPTEMBER 4, 1923.

175,976. MATCHES. JONKOPING OCH VULCANS TANDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed November 30, 1920. Serial No. 140,446. PUBLISHED SEPTEMBER 4, 1923.

175,977. MATCHES. JONKOPING OCH VULCANS TANDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed November 30, 1920. Serial No. 140,447. PUBLISHED SEPTEMBER 4, 1923.

175,978. MATCHES. JONKOPING OCH VULCANS TANDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed November 30, 1920. Serial No. 140,449. PUBLISHED SEPTEMBER 4, 1923.

175,979. MATCHES. JONKOPING OCH VULCANS TANDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed November 30, 1920. Serial No. 140,452. PUBLISHED SEPTEMBER 4, 1923.

175,980. MATCHES. JONKOPING OCH VULCANS TANDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed November 30, 1920. Serial No. 140,450. PUBLISHED SEPTEMBER 4, 1923.

175,981. MATCHES. JONKOPING OCH VULCANS TANDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed November 30, 1920. Serial No. 140,453. PUBLISHED SEPTEMBER 4, 1923.

175,982. MATCHES. JONKOPING OCH VULCANS TANDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed November 30, 1920. Serial No. 140,454. PUBLISHED SEPTEMBER 4, 1923.

175,983. MATCHES. JONKOPING OCH VULCANS TANDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed November 30, 1920. Serial No. 140,456. PUBLISHED SEPTEMBER 4, 1923.

175,984. MATCHES. JONKOPING OCH VULCANS TANDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed November 30, 1920. Serial No. 140,457. PUBLISHED SEPTEMBER 4, 1923.

175,985. MATCHES. JONKOPING OCH VULCANS TANDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed November 30, 1920. Serial No. 140,458. PUBLISHED SEPTEMBER 4, 1923.

175,986. CHEMICAL TISSUE FOR USE AS A SURGICAL DRESSING. HASKINS & WELTON, Chicago, Ill., assignors to Welton & Company, Chicago, Ill., a Partnership.
Filed March 14, 1921. Serial No. 144,720. PUBLISHED SEPTEMBER 4, 1923.

175,987. STOVE POLISH. GABEL BROTHERS, Garnerville, N. Y.
Filed July 25, 1921. Serial No. 150,895. PUBLISHED JULY 31, 1923.

175,988. LADIES' DRESSING GOWNS. GOLDMAN COSTUME COMPANY, INC., New York, N. Y.
Filed November 14, 1921. Serial No. 155,342. PUBLISHED AUGUST 7, 1923.

175,989. LEDGER PAPER. H. P. ANDREWS PAPER COMPANY, New York, N. Y.
Filed August 3, 1922. Serial No. 167,760. PUBLISHED AUGUST 28, 1923.

175,990. GASOLINE, KEROSENE, PETROLEUM DISTILLATES, FUEL OILS, LUBRICATING OILS, AND GREASES. HERCULES GASOLINE CO., Los Angeles, Calif.
Filed September 6, 1922. Serial No. 169,130. PUBLISHED SEPTEMBER 4, 1923.

175,991. WRITING PAPER, CORRESPONDENCE ENVELOPES, WRITING TABLETS, AND PAPETERIES. MID WEST PAPER & ENVELOPE CO., Marion, Ind.
Filed August 11, 1922. Serial No. 168,118. PUBLISHED AUGUST 28, 1923.

175,992. WASHING POWDER, OIL SOAP, LIQUID SOAP, CHIP SOAP, LAUNDRY SOAP, SOAP STOCK, AND GREEN SOAP. POLAND SOAP WORKS, Anniston, Ala.
Filed April 5, 1922. Serial No. 161,792. PUBLISHED SEPTEMBER 4, 1923.

175,993. REELS OF ELECTRIC CONNECTING CONDUCTORS FOR USE WITH AUTOMOBILE SPOT-LIGHTS OR FOR SIMILAR PURPOSES. GRIGSBY-GRUNOW-HINDS CO., Chicago, Ill.
Filed April 27, 1922. Serial No. 162,991. PUBLISHED SEPTEMBER 4, 1923.

175,994. CERTAIN RECEPTACLES. MANNESMANNRÖHREN-WERKE, Düsseldorf, Germany.
Filed May 11, 1922. Serial No. 163,688. PUBLISHED SEPTEMBER 4, 1923.

175,995. TELEPHONE HEAD SETS. RADIOCEIVE MANUFACTURING COMPANY, Newark, N. J.
Filed May 18, 1922. Serial No. 164,075. PUBLISHED SEPTEMBER 4, 1923.

175,996. ADHESIVES—NAMELY, ADHESIVE PREPARATION FOR MENDING ARTICLES OF GLASS, CHINA, DELF, AND THE LIKE. M'CAW, STEVENSON & ORR, LTD., Belfast, Ireland.
Filed May 20, 1922. Serial No. 164,181. PUBLISHED SEPTEMBER 4, 1923.

175,997. ELECTRIC RESISTANCE MATERIALS—NAMELY, WIRES, RODS, STRIPS, AND RIBBONS. THE ELECTRICAL ALLOY COMPANY, Morristown, N. J.
Filed June 12, 1922. Serial No. 165,365. PUBLISHED SEPTEMBER 4, 1923.

175,998. BRAKE LINING. THE MANHATTAN RUBBER MFG. CO., Passaic, N. J.
Filed July 13, 1922. Serial No. 166,839. PUBLISHED SEPTEMBER 4, 1923.

175,999. COMBINATION PHONOGRAPH AND RADIO RECEIVING SETS, LOUD SPEAKERS, TRANSFORMERS, RECTIFIERS, AND HEAD RECEIVING SETS. WALTER LYTTON, INC., Chicago, Ill.
Filed September 22, 1922. Serial No. 169,814. PUBLISHED SEPTEMBER 4, 1923.

176,000. LIQUID FUEL. PETROLEUM SERVICE CORPORATION, Minneapolis, Minn.
Filed October 16, 1922. Serial No. 170,753. PUBLISHED SEPTEMBER 4, 1923.

176,001. SHOE BAGS AND SKATE BAGS. JAMES W. BRINE COMPANY, Boston, Mass.
Filed December 1, 1922. Serial No. 172,729. PUBLISHED SEPTEMBER 4, 1923.

176,002. PAPER BAGS. ZELLERBACH PAPER COMPANY, San Francisco, Calif.
Filed June 25, 1923. Serial No. 182,433. PUBLISHED SEPTEMBER 4, 1923.

176,003. PAPER BAGS. CROWN WILLAMETTE PAPER COMPANY, San Francisco, Calif.
Filed June 25, 1923. Serial No. 182,401. PUBLISHED SEPTEMBER 4, 1923.

176,004. PAPER BAGS. ZELLERBACH PAPER COMPANY, San Francisco, Calif.
Filed June 25, 1923. Serial No. 182,455. PUBLISHED SEPTEMBER 4, 1923.

176,005. PAPER BAGS. ZELLERBACH PAPER COMPANY, San Francisco, Calif.
Filed June 25, 1923. Serial No. 182,457. PUBLISHED SEPTEMBER 4, 1923.

176,006. PAPER BAGS. ZELLERBACH PAPER COMPANY, San Francisco, Calif.
Filed June 25, 1923. Serial No. 182,456. PUBLISHED SEPTEMBER 4, 1923.

176,007. PAPER BAGS. ZELLERBACH PAPER COMPANY, San Francisco, Calif.
Filed June 25, 1923. Serial No. 182,458. PUBLISHED SEPTEMBER 4, 1923.

176,008. PAPER BAGS. ZELLERBACH PAPER COMPANY, San Francisco, Calif.
Filed June 25, 1923. Serial No. 182,460. PUBLISHED SEPTEMBER 4, 1923.

176,009. PREPARED ROOFINGS, ROOFING PAPERS, BUILDING PAPERS, FELT, AND ASPHALT SHINGLES. MONTGOMERY WARD & CO., Chicago, Ill.
Filed July 11, 1923. Serial No. 183,079. PUBLISHED SEPTEMBER 4, 1923.

176,010. PAPER BAGS. ZELLERBACH PAPER COMPANY, San Francisco, Calif.
Filed June 25, 1923. Serial No. 182,459. PUBLISHED SEPTEMBER 4, 1923.

176,011. BITUMINIZED ROOFINGS, SHINGLES, AND STRIP SHINGLES. THE RUBEROID CO., Boundbrook, N. J., and New York, N. Y.
Filed July 2, 1923. Serial No. 182,721. PUBLSHED SEPTEMBER 4, 1923.

176,012. CARBON BLACK. GODFREY L. CABOT, INC., Boston, Mass.
Filed February 15, 1923. Serial No. 176,068. PUBLISHED SEPTEMBER 4, 1923.

176,013. PARIS WHITE. THE TAINTOR COMPANY, New York, N. Y.
Filed February 19, 1923. Serial No. 176,315. PUBLISHED SEPTEMBER 4, 1923.

176,014. CAPS AND HATS OF FELT, STRAW, SILK, CLOTH, AND FUR, FOR MEN AND WOMEN. THE CROFUT & KNAPP CO., South Norwalk, Conn.
Filed February 20, 1923. Serial No. 176,329. PUBLISHED JULY 31, 1923.

176,015. BOOTS AND SHOES MADE WHOLLY OR IN PART OF LEATHER. W. L. DOUGLAS SHOE COMPANY, Brockton, Mass.
Filed February 20, 1923. Serial No. 176,331. PUBLISHED MAY 22, 1923.

176,016. NURSES' SHOES MADE WHOLLY OR IN PART OF LEATHER AND FABRIC. MORGAN SHOE COMPANY, Boston, Mass.
Filed March 1, 1923. Serial No. 176,801. PUBLISHED JULY 31, 1923.

176,017. BRASSIÈRES. IDA MUNZER, INC., New York, N. Y.
Filed March 1, 1923. Serial No. 176,804. PUBLISHED JULY 31, 1923.

176,018. ICE-CREAM CONFECTIONS. SULLIVAN, HENSLEY & PONTO, Denver, Colo.
Filed March 8, 1923. Serial No. 177,145. PUBLISHED JULY 3, 1923.

176,019. CORSETS, CORSET WAISTS, BRASSIÈRES, BANDEAUX, GIRDLES, AND BELTS FOR PERSONAL WEAR. FROLASET CORSET CO., Detroit, Mich.
Filed March 9, 1923. Serial No. 177,180. PUBLISHED AUGUST 28, 1923.

176,020. METALLIC FLAT CURTAIN RODS. CLARENCE J. ALDEN, doing business as The Painesville Metallic Binding Co., Painesville, Ohio.
Filed March 3, 1923. Serial No. 176,867. PUBLISHED SEPTEMBER 4, 1923.

176,021. MEDICATED WAX FOR THE TREATMENT OF PYORRHEA. DRS. BROWN AND BROWN, Chicago, Ill.
Filed March 12, 1923. Serial No. 177,269. PUBLISHED JULY 31, 1923.

176,022. TONIC COMPOUND FOR TREATING WORMS, THUMPS, AND THE DIGESTIVE ORGANS IN HOGS AND OTHER LIVE STOCK. ALMON J. WHITE, Carrollton, Mo.
Filed March 14, 1923. Serial No. 177,459. PUBLISHED JULY 31, 1923.

176,023. BOOT AND SHOE TIPS AND COUNTERS. GEO. E. KEITH COMPANY, Brockton, Mass.
Filed March 19, 1923. Serial No. 177,675. PUBLISHED JULY 24, 1923.

176,024. CERTAIN PAINTS AND PAINTERS' MATERIALS. F. W. GEILER, INC., New York, N. Y.
Filed March 20, 1923. Serial No. 177,732. PUBLISHED SEPTEMBER 4, 1923.

176,025. SHOES MADE OF LEATHER OR FABRIC OR A COMBINATION OF LEATHER AND FABRIC. HUTZLER BROTHERS CO., Baltimore, Md.
Filed March 22, 1923. Serial No. 177,848. PUBLISHED AUGUST 28, 1923.

176,026. GARTERS, WAIST BELTS, AND SUSPENDERS. KNOTHE BROTHERS CO., INC., New York, N. Y.
Filed March 23, 1923. Serial No. 177,915. PUBLISHED JULY 31, 1923.

176,027. CANDY. ANNA D. FLYNN, Beach Bluff, Mass.
Filed April 5, 1923. Serial No. 178,602. PUBLISHED JULY 17, 1923.

176,028. LADIES' HATS AND BONNETS. DAVIDSON BROTHERS COMPANY, Sioux City, Iowa.
Filed April 10, 1923. Serial No. 178,895. PUBLISHED JULY 31, 1923.

176,029. CORSETS. JACKSON CORSET COMPANY, Jackson, Mich.
Filed April 7, 1923. Serial No. 178,723. PUBLISHED SEPTEMBER 4, 1923.

176,030. CABINET MOTION-PICTURE APPARATUS. IWAN SERRURIER, Altadena, Calif.
Filed April 16, 1923. Serial No. 179,228. PUBLISHED SEPTEMBER 4, 1923.

176,031. LUMINOUS PAINT. GRAY & BRETEY CO., New York, N. Y.
Filed April 16, 1923. Serial No. 179,199. PUBLISHED SEPTEMBER 4, 1923.

176,032. LADIES', MISSES', AND CHILDREN'S HATS AND CAPS. FASHION HAT COMPANY, New York, N. Y.
Filed April 18, 1923. Serial No. 179,298. PUBLISHED AUGUST 14, 1923.

176,033. BOOK AND CATALOGUE COVERS AND DECORATIVE EFFECTS. THE DAVID J. MOLLOY COMPANY, Chicago, Ill.
Filed April 19, 1923. Serial No. 179,378. PUBLISHED AUGUST 28, 1923.

176,034. MANICURE SETS SOLD AS AN UNIT. THE ART ORNAMENT CO., New York, N. Y.
Filed April 21, 1923. Serial No. 179,450. PUBLISHED SEPTEMBER 4, 1923.

176,035. RUBBER OUTSOLES, RUBBER HEELS, RUBBER INSOLES, AND RUBBER HALF SOLES. CLARK RUBBER MANUFACTURING CO., Franklin, Mass.
Filed April 26, 1923. Serial No. 179,715. PUBLISHED SEPTEMBER 4, 1923.

176,036. LADIES' HATS. H. L. DISTILLATOR & SON, New York, N. Y.
Filed April 27, 1923. Serial No. 179,785. PUBLISHED AUGUST 14, 1923.

176,037. METAL VALVES FOR MAINS AND PIPES. BETHLEHEM STEEL COMPANY, Bethlehem, Pa.
Filed April 28, 1923. Serial No. 179,845. PUBLISHED SEPTEMBER 4, 1923.

176,038. PADS USED FOR WRITING, MEMORANDA, COMPUTING, AND THE LIKE. ROY J. TURNER, Chicago, Ill.
Filed April 28, 1923. Serial No. 179,895. PUBLISHED AUGUST 28, 1923.

176,039. BANDEAUX AND BRASSIÈRES. THE WARNER BROTHERS COMPANY, Bridgeport, Conn.
Filed April 28, 1923. Serial No. 179,903. PUBLISHED AUGUST 14, 1923.

176,040. READY-MIXED PAINTS, VARNISHES, PAINT ENAMELS, STAINS, AND COLORS. ASSETS PRODUCING COMPANY, doing business as Atlantic-Pacific Paint Works, Chicago, Ill.
Filed April 30, 1923. Serial No. 179,921. PUBLISHED SEPTEMBER 4, 1923.

176,041. WALL FINISHES. THE HOCKADAY COMPANY, Chicago, Ill.
Filed April 30, 1923. Serial No. 179,939. PUBLISHED SEPTEMBER 4, 1923.

176,042. ALLOY INTENDED TO BE USED FOR JEWELRY AND JEWELERS' GOODS. MARRET, BONNIN, LEBEL & GUIEU, Paris, France.
Filed May 1, 1923. Serial No. 180,018. PUBLISHED SEPTEMBER 4, 1923.

176,043. WATER WHEELS. JOHN B. CAMPBELL, Philadelphia, Pa.
Filed May 2, 1923. Serial No. 180,046. PUBLISHED SEPTEMBER 4, 1923.

176,044. PLAIN, DECORATED, AND LITHOGRAPHED TIN, METAL, AND PAPER PACKAGES. ACME CAN COMPANY, Philadelphia, Pa.
Filed May 5, 1923. Serial No. 180,203. PUBLISHED SEPTEMBER 4, 1923.

176,045. LUBRICATING OIL. WILLOWBROOK CHEMICAL WORKS, Los Angeles, Calif.
Filed May 10, 1923. Serial No. 180,459. PUBLISHED SEPTEMBER 4, 1923.

176,046. TRACTORS, CULTIVATORS, AND SULKY PLOWS. THE CENTRAL TRACTOR COMPANY, Greenwich, Ohio.
Filed May 17, 1923. Serial No. 180,748. PUBLISHED SEPTEMBER 4, 1923.

176,047. READY-MIXED PAINTS. BENJAMIN MOORE & CO., Jersey City, N. J., and Brooklyn, N. Y.
Filed May 18, 1923. Serial No. 180,803. PUBLISHED SEPTEMBER 4, 1923.

176,048. BLACKSMITH COAL. DICKINSON FUEL COMPANY, Dallas, Tex.
Filed May 28, 1923. Serial No. 181,253. PUBLISHED SEPTEMBER 4, 1923.

176,049. FINISHING OR POLISHING MATERIAL FOR PAINTED, VARNISHED, OR ENAMELED SURFACES. SURFIX CHEMICAL CO., Detroit, Mich.
Filed May 19, 1923. Serial No. 180,904. PUBLISHED SEPTEMBER 4, 1923.

176,050. LUBRICANTS FOR DENTAL ENGINES AND GENERAL LUBRICANT PURPOSES. ABRAHAM N. BRESLER, doing business as Lubraseptol Co., New York, N. Y.
Filed May 22, 1923. Serial No. 180,959. PUBLISHED SEPTEMBER 4, 1923.

176,051. CERTAIN NAMED PAPER. CENTRAL MICHIGAN PAPER COMPANY, Grand Rapids, Mich.
Filed May 28, 1923. Serial No. 181,245. PUBLISHED AUGUST 28, 1923.

176,052. DOG AND PUPPY TONIC, ANTISEPTIC TABLETS, AND BLOOD PILLS. HENRY BEAUREGARD FURGERSON M. D., doing business as Furgerson Drug Co., Halifax, N. C.
Filed May 14, 1923. Serial No. 180,597. PUBLISHED AUGUST 7, 1923.

176,053. POLISHING BRUSHES. S. C. JOHNSON & SON, Racine, Wis.
Filed June 16, 1923. Serial No. 182,101. PUBLISHED SEPTEMBER 4, 1923.

176,054. MERCERIZED COTTON PIECE GOODS. CONSOLIDATED TEXTILE CORPORATION, New York, N. Y.
Filed June 5, 1923. Serial No. 181,559. PUBLISHED SEPTEMBER 4, 1923.

176,055. COTTON PIECE GOODS. BRUNE, POTTBERG & CO., New York, N. Y.
Filed June 19, 1923. Serial No. 182,202. PUBLISHED SEPTEMBER 4, 1923.

176,056. WINDOW SILLS, DOOR SILLS, LINTELS, ARCHES, DENTIL COURSES, CORNICES, COPINGS, CHIMNEY CAPS, ETC. ABRAM MOSES, Baltimore, Md.
Filed June 16, 1923. Serial No. 182,109. PUBLISHED SEPTEMBER 4, 1923.

176,057. COTTON PIECE GOODS. BRUNE, POTTBERG & CO., New York, N. Y.
Filed June 21, 1923. Serial No. 182,292. PUBLISHED SEPTEMBER 4, 1923.

176,058. COTTON PIECE GOODS. BRUNE, POTTBERG & CO., New York, N. Y.
Filed June 21, 1923. Serial No. 182,291. PUBLISHED SEPTEMBER 4, 1923.

176,059. BEDSPREADS. THE SORRICK-CAYLOR COMPANY, Dalton, Ga.
Filed June 22, 1923. Serial No. 182,366. PUBLISHED SEPTEMBER 4, 1923.

176,060. READY-MIXED PAINTS AND PAINT ENAMELS. CHARLES DRAEBK, doing business as Painters Supply Co., Cleveland, Ohio.
Filed June 27, 1923. Serial No. 182,502. PUBLISHED SEPTEMBER 4, 1923.

176,061. SEALING WAX. KEFERSTEIN, STARR & CO., INC., New York, N. Y.
Filed May 18, 1923. Serial No. 180,800. PUBLISHED SEPTEMBER 4, 1923.

176,062. PAPER BAGS. THE U. S. PAPER GOODS CO., Cincinnati, Ohio.
Filed May 19, 1923. Serial No. 180,911. PUBLISHED SEPTEMBER 4, 1923.

176,063. INCANDESCENT-LAMP SOCKETS, FUSE SOCKETS, AND SWITCHES. ROBERT EBERHARDT, doing business as Pull-Grip Electric Company, New York, N. Y.
Filed May 21, 1923. Serial No. 180,923. PUBLISHED SEPTEMBER 4, 1923.

176,064. TEMPERATURE-RETAINING VESSELS. AMERICAN THERMOS BOTTLE COMPANY, Norwich, Conn.
Filed May 25, 1923. Serial No. 181,102. PUBLISHED SEPTEMBER 4, 1923.

176,065. ELECTRIC ENGRAVING MACHINES. THE ENGRAVOGRAPH CORPORATION, New York, N. Y.
Filed May 28, 1923. Serial No. 181,261. PUBLISHED SEPTEMBER 4, 1923.

176,066. A CEMENT FOR USE IN REPAIRING MUSICAL INSTRUMENTS. T. TAYLOR BUCKLEY, INC., Trenton, N. J.
Filed May 28, 1923. Serial No. 181,240. PUBLISHED SEPTEMBER 4, 1923.

176,067. ELECTRIC HEATING APPARATUS FOR HEATING RIVETS, SLUGS, BARS, AND OTHER METAL PARTS FOR VARIOUS PURPOSES. THE HUMIL CORPORATION, New York, N. Y.
Filed May 26, 1923. Serial No. 181,190. PUBLISHED AUGUST 21, 1923.

176,068. READY-MIXED PAINTS, VARNISHES, DRY COLORS, PAINT ENAMELS, LACQUERS, AND ROOFING PAINTS. MAURICE LOUIS DETOURBE, Paris, France.
Filed June 8, 1923. Serial No. 181,683. PUBLISHED SEPTEMBER 4, 1923.

176,069. ELECTRIC GENERATORS FOR AUTOMOBILE LIGHTING DYNAMOS, MOTORS, ELECTRIC IGNITION APPARATUS AND AUTOMATIC ELECTRIC SWITCHES. OWEN-DYNETO CORPORATION, Syracuse, N. Y.
Filed June 6, 1923. Serial No. 181,611. PUBLISHED SEPTEMBER 4, 1923.

176,070. FIRE-RESISTING CEMENT FOR FORMING FURNACE LININGS. JOINTLESS FIRE-BRICK CO., Chicago, Ill.
Filed June 5, 1923. Serial No. 181,568. PUBLISHED SEPTEMBER 4, 1923.

176,071. CONTACT POINTS. FANSTEEL PRODUCTS COMPANY, INC., North Chicago, Ill.
Filed June 4, 1923. Serial No. 181,520. PUBLISHED AUGUST 21, 1923.

176,072. ADHESIVES, PARTICULARLY GLUE AND PASTE, BOTH ANIMAL AND VEGETABLE. WILLIAM R. LONG, St. Louis, Mo.
Filed May 28, 1923. Serial No. 181,289. PUBLISHED SEPTEMBER 4, 1923.

176,073. FITTINGS FOR ELECTRIC CONDUITS, COMPRISING END FITTINGS, ELBOW FITTINGS, T FITTINGS, COUPLING FITTINGS, AND JUNCTION BOXES. MARY W. JOHNSON, doing business as The Johnson Electric Mfg. Co., Warren, R. I.
Filed June 15, 1923. Serial No. 182,054. PUBLISHED AUGUST 21, 1923.

176,074. ELECTRIC BATTERIES. WOOD-CRAFT COMPANY, St. Paul, Minn.
Filed June 14, 1923. Serial No. 182,030. PUBLISHED AUGUST 21, 1923.

176,075. READY-MIXED PAINTS, VARNISHES, DRY COLORS, PAINT ENAMELS, LACQUERS, AND ROOFING PAINTS. MAURICE LOUIS DETOURBE, Paris, France.
Filed June 8, 1923. Serial No. 181,684. PUBLISHED SEPTEMBER 4, 1923.

176,076. LUBRICATING OILS. VACUUM OIL COMPANY, New York, N. Y.
Filed June 15, 1923. Serial No. 182,079. PUBLISHED SEPTEMBER 4, 1923.

176,077. AUTOMOBILE TIMERS. RODEFELD MFG. CO., Richmond, Ind.
Filed June 18, 1923. Serial No. 182,184. PUBLISHED AUGUST 21, 1923.

176,078. LUBRICATING OILS. THE MIDLAND REFINING COMPANY, Eldorado, Kans.
Filed June 19, 1923. Serial No. 182,216. PUBLISHED SEPTEMBER 4, 1923.

176,079. LUBRICATING OILS. STANDARD OIL COMPANY (INCORPORATED IN NEW JERSEY), Bayonne, N. J.
Filed June 23, 1923. Serial No. 182,386. PUBLISHED SEPTEMBER 4, 1923.

176,080. FERTILIZER. WESTLAKE CHEMICAL CO., INC., Westlake, La.
Filed June 20, 1923. Serial No. 182,240. PUBLISHED SEPTEMBER 4, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

176,081. (CLASS 39. CLOTHING.) MORRIS & COMPANY, INCORPORATED, Baltimore, Md. Filed Aug. 16, 1923. Serial No. 184,559.

"TWO-IN-ONE"

Particular description of goods.—Women's, Misses', and Children's Middy Blouses and Women's and Misses' Waists.
Claims use since May 10, 1921.

176,082. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DOLMAN MANUFACTURING COMPANY, INC., Springfield, Mass. Filed Aug. 8, 1923. Serial No. 184,203.

DOLMAN

Particular description of goods.—Screw Drivers.
Claims use since Sept. 21, 1921.

176,083. (CLASS 39. CLOTHING.) N. ERLANGER, BLUMGART & CO., INC., New York, N. Y. Filed July 12, 1923. Serial No. 183,100.

EVERFAST

Particular description of goods.—Under Wash Garments—Namely, Pyjamas, Union Suits, Underdrawers, and Undershirts of Textile Fabric for Men, Women, and Children.
Claims use since Apr. 10, 1922.

176,084. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, Holyoke, Mass. Filed June 15, 1923. Serial No. 182,039.

PEERLESS

Particular description of goods.—Writing and Printing Paper.
Claims use since Mar. 2, 1917.

176,085. (CLASS 39. CLOTHING.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Feb. 25, 1921. Serial No. 144,048.

YAMA-FUR

Particular description of goods.—Women's, Children's, and Infants' Coats, Cloaks, Wraps, Capes, Suits, Costumes, Dresses, Waists, Skirts, and Hats.
Claims use since Jan. 18, 1921.

176,086. (CLASS 12. CONSTRUCTION MATERIALS.) RED CEDAR POST & LUMBER COMPANY, Seattle, Wash. Filed Mar. 11, 1921. Serial No. 144,636.

LASTLONGER

Particular description of goods.—Cedar Posts and Lumber.
Claims use since April, 1920

176,087. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALLIED PACKERS, INCORPORATED, Chicago, Ill. Filed May 4, 1922. Serial No. 163,308.

Old Fashioned

Particular description of goods.—Fresh Meats—Namely, Beef, Pork, Mutton, Poultry; Pickled and Cured Meats—Namely, Beef, Pork, Ham, Bacon; Canned Meats—Namely, Beef and Vegetables, Beefsteak and Onions, Beef Stew, Beef Suet, Boiled Beef, Boned Chicken, Frankfurt Bratwurst, Brisket Beef, Chile Con Carne, Bologna-Style Sausage, Cooked Brains, Corn Beef, Corn-Beef Hash, Deviled Meats, Dried Beef, Georgia-Style Hash, Hamburger Steak, Irish Stew, Deviled Ham, Lamb's Tongue, Liver and Bacon, Beef Loaf, Chicken Loaf, Ham Loaf, Veal Loaf, Luncheon Sausage, Luncheon Beef, Luncheon Tongues, Minced Collops, Minced Steak, Oxford-Style Sausage, Oxtails, Oxtongues, Pigs' Feet, Plum Pudding, Pork Sausage Meat, Potted Meats, Minced Meat, Roast Beef, Roast-Beef Hash, Roast Mutton, Sauerkraut and Vienna-Style Sausage, Sausage Meat, Sliced Bacon, Spaghetti, Meat and Chili; Stewed Kidneys, Chicken Tamales, Hot Tamales, Tripe, Vienna-Style Sausage, Potted Ham, Deviled Ham, Potted Tongue; Lard, Sausage, Bologna, Mincemeat, Butter, Eggs, Cheese, and Oleomargarine.
Claims use since Feb. 9, 1922.

176,088. (CLASS 39. CLOTHING.) OMBRELO, INC., New York, N. Y. Filed July 15, 1922. Serial No. 166,954.

DUK
(DUCK)

Particular description of goods.—Storm-Protective Covering in the Form of a Combined Overcoat, Hood, and Cape.
Claims use since July 1, 1922.

176,089. (CLASS 39. CLOTHING.) SAM M. AMINOFF, Chicago, Ill. Filed July 27, 1922. Serial No. 167,451.

NON SLIP

Particular description of goods.—Brassières and Bloomers and a Union Garment of the Same for Women and Children, Made Mainly of Textile Fabrics.
Claims use since Feb. 1, 1922.

176,090. (CLASS 32. FURNITURE AND UPHOLSTERY.) COLUMBIA STEEL EQUIPMENT COMPANY, Philadelphia, Pa. Filed July 31, 1922. Serial No. 167,600.

ATLAS

Particular description of goods.—Filing Cabinets.
Claims use since July 22, 1922.

176,091. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BONWHITE CHEMICAL CORPORATION, New York, N. Y. Filed Sept. 1, 1922. Serial No. 168,955.

UDDER BALM

Particular description of goods.—Balm for the Treatment of Abnormal Complications of the Udder and to Relieve Inflammation in Galls, Hoof Diseases, Cuts, Wounds, and Burns.
Claims use since November, 1919.

176,092. (CLASS 39. CLOTHING.) BARMON BROTHERS COMPANY, INC., Buffalo, N. Y. Filed Sept. 21, 1922. Serial No. 169,745.

"Natty-Knicker"

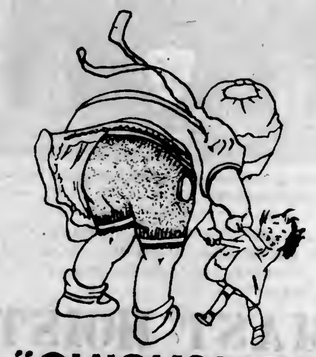
Particular description of goods.—Girls', Ladies', and Children's Dresses.
Claims use since about May 25, 1922.

176,093. (CLASS 39. CLOTHING.) WOODWARD & LOTHROP, Washington, D. C. Filed Sept. 29, 1922. Serial No. 170,105.

CROYDON

Particular description of goods.—Women's Coats.
Claims use since Sept. 12, 1922.

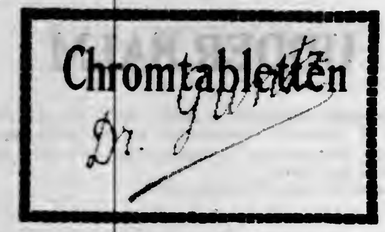
176,094. (CLASS 39. CLOTHING.) RUBBERIZED SHEETING & SPECIALTY CO., INC., New York, N. Y., and Chicago, Ill. Filed Oct. 2, 1922. Serial No. 170,218.



"QUICKSLIP"

Particular description of goods.—Baby Bloomers.
Claims use since January, 1919.

176,095. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMERICAN EUROPEAN SERVICE BUREAU, New York, N. Y. Filed Oct. 14, 1922. Serial No. 170,738.



Particular description of goods.—Preparation for the Treatment of Syphilis.
Claims use since Mar. 5, 1920.

176,096. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CABARRUS COTTON MILLS, Kannapolis, N. C. Filed Oct. 18, 1922. Serial No. 170,863.

ROWAN

Particular description of goods.—Cotton Piece Goods, Sheets, and Pillowcases.
Claims use since Sept. 27, 1922.

176,097. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, New York, N. Y. Filed Oct. 18, 1922. Serial No. 170,891.



Particular description of goods.—Biscuits and Crackers.
Claims use since July, 1922.

176,098. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INSLEY MANUFACTURING COMPANY, Indianapolis, Ind. Filed Oct. 21, 1922. Serial No. 171,022.

MAST HOIST

Particular description of goods.—Steel Masts and Parts Thereof for the Hoisting of Concrete and Construction Materials, Concrete Chutes and Hoisting Buckets.
Claims use since on or about Oct. 31, 1921.

176,099. (CLASS 37. PAPER AND STATIONERY.) WHITE & WYCKOFF MANUFACTURING COMPANY, Holyoke, Mass. Filed Dec. 8, 1922. Serial No. 173,118.

MASTERMADE

Particular description of goods.—Papeteries, Writing and Typewriting Tablets; Writing Paper in Reams, Pounds, and Other Packages, and Mailing Envelopes.
Claims use since Sept. 18, 1922.

176,100. (CLASS 12. CONSTRUCTION MATERIALS.) A. P. GREEN FIRE BRICK CO., Mexico, Mo. Filed Dec. 18, 1922. Serial No. 173,485.

MEXICO.

Particular description of goods.—Fire Brick, Fire-Brick Cement, and Fire-Clay Tile.
Claims use since October, 1910.

176,101. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FULGHUM & COMPANY, Los Angeles, Calif. Filed Feb. 26, 1923. Serial No. 176,614.

PROTEX

Particular description of goods.—Hair Nets.
Claims use since Oct. 1, 1922.

176,102. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STERLING MILK COMPANY, Oklahoma, Okla. Filed Mar. 29, 1923. Serial No. 178,296.

Sterling

Particular description of goods.—Pottled and Canned Processed Milk, Cream, and Chocolate Milk Food Beverages.
Claims use since Feb. 20, 1920.

176,103. (CLASS 39. CLOTHING.) THOMAS SCHUBB, Detroit, Mich. Filed May 14, 1923. Serial No. 180,624.



Particular description of goods.—Men's Suits and Overcoats.
Claims use since May 1, 1921.

176,104. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, Holyoke, Mass. Filed June 15, 1923. Serial No. 182,038.

DARIEN

Particular description of goods.—Index Bristol.
Claims use since Oct. 1, 1921.

LABELS

REGISTERED NOVEMBER 13, 1923.

26,507.—*Title:* AMBROSIA CHICAGO BEST OF ALL CHOCOLATES. For Chocolate. AMBROSIA CHOCOLATE CREAM COMPANY, Chicago, Ill. Published September 20, 1923.

26,508.—*Title:* EYE OPENER. For Candy. THE ANTHONY CANDY COMPANY, Greenville, Ohio. Published July 2, 1923.

26,509.—*Title:* SPOT CLEANER. For a Compound Used to Clean Carpets, Automobile Covers, Woodwork, Fabrics, and Leather Goods. ARISTOCRAT PRODUCTS CO., Youngstown, Ohio. Published September 5, 1923.

26,510.—*Title:* AVERY RED TAG CULTIVATOR SWEEP. For Cultivator Sweeps. B. F. AVERY & SONS, Louisville, Ky. Published September 12, 1922.

26,511.—*Title:* BRAINARD'S LITTLE BROWN JUG. For Heat-Insulated Liquid Containers. PEARL H. BRAINARD, Macomb, Ill. Published March 20, 1923.

26,512.—*Title:* WINONA. For Pineapple. GEO. BUBB & SONS, Williamsport, Pa. Published August 20, 1923.

26,513.—*Title:* DEL-ROSE. For Lobsters. CENTRAL BROKERAGE COMPANY, Chicago, Ill. Published August 3, 1923.

26,514.—*Title:* CHICAGO BRAND-DE LUXE. For Ginger Ale. CHICAGO BEVERAGE CO., Chicago, Ill. Published June 20, 1923.

26,515.—*Title:* HOLLYBROOK. For Butter. H. C. CHRISTIANS CO., Chicago, Ill. Published August 1, 1923.

26,516.—*Title:* TRUMPET. For Coffee. H. P. COFFEE COMPANY, St. Louis, Mo. Published July 11, 1923.

26,517.—*Title:* ALCOLOTION. For a Preparation for External Use and Application. CRAGIN PRODUCTS CO., Chicago, Ill. Published August 28, 1923.

26,518.—*Title:* KIDDIE-NEED TOILET SEAT TAKE IT WITH YOU. For Containers for a Child's Toilet Seat. DE RAND COMPANY, INC., St. Louis, Mo. Published July 5, 1923.

26,519.—*Title:* PALLADIUM PAINTS. For Paints. THE DIXIE PAINT COMPANY, New Orleans, La. Published August 20, 1923.

26,520.—*Title:* BURRO COFFEE. For Coffee. B. FISCHER & CO., INC., New York, N. Y. Published September 1, 1923.

26,521.—*Title:* FLEXO, BAR BELT DRESSING, PRESERVATIVE FOR ALL KINDS OF BELTS. For a Belt Dressing. THE FLEXO COMPANY, Fredericksburg, Va. Published September 6, 1923.

26,522.—*Title:* ANTILLAS. For Canned Lobster. WILLIAM FRANK, New York, N. Y. Published May 1, 1923.

26,523.—*Title:* MAMMY'S DELIGHT SOUTHERN BEATEN BISCUITS. For Wrappers for Biscuits. ADELAIDE A. JACKSON AND ELIZABETH JONES, doing business under the name of A. & E. Jackson, New York, N. Y. Published December 15, 1922.

26,524.—*Title:* PROGRESS. For Writing Tablets. KALAMAZOO STATIONERY CO., Kalamazoo, Mich. Published September 1, 1923.

26,525.—*Title:* SLEEP EASY FELT MATTRESS. For Mattresses. KNOXVILLE MATTRESS COMPANY, Knoxville, Tenn. Published July 19, 1923.

26,526.—*Title:* ARABO. For Coffee. T. N. KOFFEY CO., Brooklyn, N. Y. Published August 8, 1923.

26,527.—*Title:* LEWIS' SINGLE BINDER DE LUXE. For Cigars. FRANK P. LEWIS CIGAR CO., Peoria, Ill. Published August 30, 1923.

26,528.—*Title:* FASHION-BILT CLOTHES. For Men's Garments. LIEBERMAN & STAR CO., Chicago, Ill. Published July 10, 1923.

26,529.—*Title:* GOLDEN. For Zwieback. MANCHESTER BISCUIT COMPANY, INCORPORATED, Sioux Falls, S. Dak. Published June 1, 1923.

26,530.—*Title:* FLASH LIGHT. For Furniture Polish. WILLIAM MANHEIM MARLOWE & SON, Corona, N. Y. Published October 1, 1923.

26,531.—*Title:* RAINBOW BRAND CREAMERY BUTTER. For Butter. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Shingleton Bros., Clarksburg, W. Va. Published December 13, 1920.

26,532.—*Title:* KEYSTONE. For Malt Sirup. HERMAN MIHM, Pittsburgh, Pa. Published September 21, 1923.

26,533.—*Title:* NARBONNE. For Dates. GARDNER H. NARBONNE, doing business as Narbonne Ranch, Thermal, Calif. Published July 2, 1923.

26,534.—*Title:* MERMAID. For Dates. GARDNER H. NARBONNE, doing business as Narbonne Ranch, Thermal, Calif. Published July 2, 1923.

26,535.—*Title:* BLACK SAMBO. For a Children's Game. NOBLE AND NOBLE, New York, N. Y. Published May 16, 1923.

26,536.—*Title:* CINDERELLA. For a Children's Game. NOBLE AND NOBLE, New York, N. Y. Published May 16, 1923.

26,537.—*Title:* GAME OF ALICE IN WONDERLAND. For a Children's Game. NOBLE AND NOBLE, New York, N. Y. Published May 16, 1923.

26,538.—*Title:* NOTHROW PISTON RINGS. For Piston Rings. NOTHROW PISTON RING CO., Philadelphia, Pa. Published July 23, 1923.

26,539.—*Title:* PAX 2 NEW LIFE SAVERS. For a Blood Builder and Nervine and a Healing Extract for Inside Bath. PAX-AMERICAN CROSS CHEMICAL CO., INC., Birmingham, Ala. Published September 20, 1923.

26,540.—*Title:* ALLOVIT. For Bread. SCHAFER BAKERY, INC., Savannah, Ga. Published July 2, 1923.

26,541.—*Title:* THE JUDGE. For Cigars. GILBERT H. THOMPSON, Manitowoc, Wis. Published December 20, 1922.

26,542.—*Title:* WONDERSHINE METAL POLISH. For a Metal Polish. J. GLENN TRACEY, Baltimore, Md. Published June 28, 1923.

26,543.—*Title:* ALL WHITE MEAT. For Canned Bonita Fish. VAN CAMP SEA FOOD COMPANY, Los Angeles, Calif. Published August 1, 1923.

26,544.—*Title:* WISCONSIN BRAND. For Canned Peas. WISCONSIN STATE CANNERS CO., Pickett, Wis. Published July 19, 1923.

PRINTS

REGISTERED NOVEMBER 13, 1923.

6,957.—*Title:* JABÓN REUTER. For Toilet Soap. BARCLAY & Co., New York, N. Y. Published September 1, 1923.

6,958.—*Title:* STOP HUNTING FOR THAT HANDLE. For Extension Door Handles for Ford Automobiles. THE BRONZO ALUMINA CORPORATION, Buffalo, N. Y. Published April 4, 1923.

6,959.—*Title:* BROWN'S VELVET ICE CREAM MADE BY NEW ORLEANS ICE CREAM CO. For Ice Cream. BENJAMIN C. BROWN, doing business as New Orleans Ice Cream Company, New Orleans, La. Published September 18, 1923.

6,960.—*Title:* WE BUY IN CARLOADS THE GAIN IS YOURS AND REPRESENTATION OF PRODUCTS IN THE FORM OF A HUMAN FIGURE. For Groceries. CENTRAL WHOLESALE GROCERS, INC., Chicago, Ill. Published May 7, 1923.

6,961.—*Title:* MR. COFF E. BEAN SAYS: For Coffee. JOANNES BROTHERS COMPANY, Los Angeles, Calif. Published September 4, 1923.

6,962.—*Title:* TOY STORE. For Canned Goods. LIBBY, MCNEILL & LIBBY, Chicago, Ill. Published August 2, 1923.

6,963.—*Title:* IF YOUR HANDS WERE SO TINY THAT YOUR FINGERS WERE NO THICKER THAN PINS—. For Hosiery. "ONYX" HOSIERY, INC., New York, N. Y. Published September 1, 1923.

6,964.—*Title:* AN IMPORTANT FEATURE OF "ONYX POINTEX" HOSIERY. For Hosiery. "ONYX" HOSIERY, INC., New York, N. Y. Published August 1, 1923.

6,965.—*Title:* REFLECTING BEAUTY SECRETS OF THE PAST. For Palmolive Soap. THE PALMOLIVE COMPANY, Milwaukee, Wis. Published September 20, 1923.

6,966.—*Title:* CERTAINLY—YOUR OWN MILD PALMOLIVE. For Soap. THE PALMOLIVE COMPANY, Milwaukee, Wis. Published September 20, 1923.

6,967.—*Title:* ROPER. For Gas Ranges. GEO. D. ROPER CORPORATION, Rockford, Ill. Published September 20, 1923.

6,968.—*Title:* 15¢ IN A SEALRIGHT CONTAINER. For Sealright Paper Boxes. SEALRIGHT CO. INC., Fulton, N. Y. Published May 5, 1923.

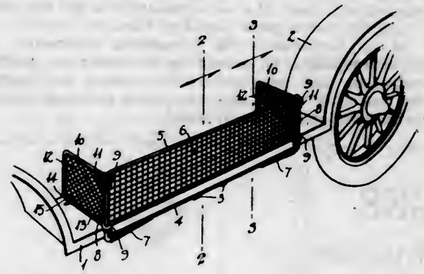
6,969.—*Title:* 10¢ IN A SEALRIGHT CONTAINER. For Sealright Paper Boxes. SEALRIGHT CO. INC., Fulton, N. Y. Published May 5, 1923.

6,970.—*Title:* FOR YOUR BABY'S SAKE! For Drugs. E. R. SQUIBB & SONS, New York, N. Y. Published April 1, 1923.

REISSUES

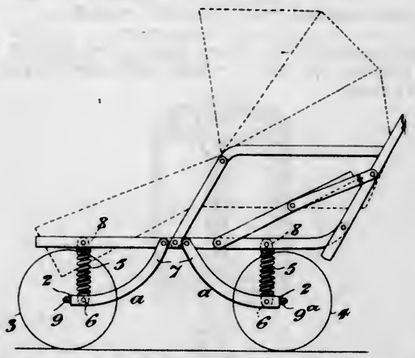
NOVEMBER 13, 1923.

15,720. COLLAPSIBLE BUNDLE RECEPTACLE. CHARLES E. CARDWELL, Houston, Tex., assignor, by direct and mesne assignments, of one-half to M. Lancaster and one-half to Minor Stewart, both of Houston, Tex. Filed Apr. 10, 1923. Serial No. 631,217. Original No. 1,377,114, dated May 3, 1921, Serial No. 415,973, filed Oct. 11, 1920. 9 Claims. (Cl. 224—29.)



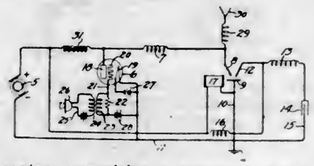
1. In combination with a support having hooks on the upper face thereof, a collapsible receptacle, including a wall hingedly connected to the support, end members hingedly connected to the wall and spring influenced whereby the end members will be swung against the wall when released, and the said end members being engageable under the spring influence with the hooks when the said end members are moved over the support and the wall is brought to a vertical position.

15,721. SPRING SUSPENSION MECHANISM FOR VEHICLES. FREDERICK HAGGER HEADLEY, Birmingham, England, assignor to Tan Sad Limited, Birmingham, England, a Company of England. Filed Oct. 21, 1922. Serial No. 596,131. Original No. 1,428,166, dated Sept. 5, 1922, Serial No. 565,216, filed June 1, 1922. 4 Claims. (Cl. 267—5.)



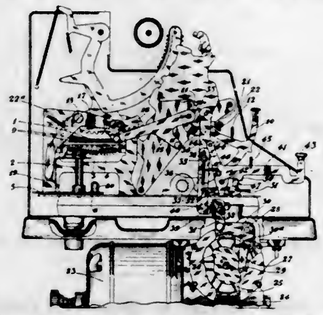
1. In a vehicle, a chassis, front and rear axles, U-members having transverse portions secured to the axles and having end portions which form radius arms arranged longitudinally of the vehicle, the radius arms of the front members extending rearwardly and being pivotally mounted on the chassis, and those of the rear member extending forwardly and being pivotally mounted on the chassis cross bars on the U-members, and springs between the said cross bars and the chassis.

15,722. SYSTEM FOR PRODUCING MODULATED WAVES. RAYMOND A. HEISING, Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 8, 1923. Serial No. 656,466. Original No. 1,436,252, dated Nov. 21, 1922, Serial No. 268,469, filed Dec. 27, 1918. 37 Claims. (Cl. 250—19.)



12. A system comprising a source of direct current, an arc, and an electron discharge device, said arc and said discharge device being in paths conductive to direct current which are in parallel with respect to said source.

15,723. ADDING MACHINE. HARRY LANDSIEDEL, Norwood, Ohio, assignor to The Dalton Adding Machine Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 4, 1923. Serial No. 636,756. Original No. 1,444,126, dated Feb. 6, 1923, Serial No. 395,769, filed July 12, 1920. 24 Claims. (Cl. 235—62.)



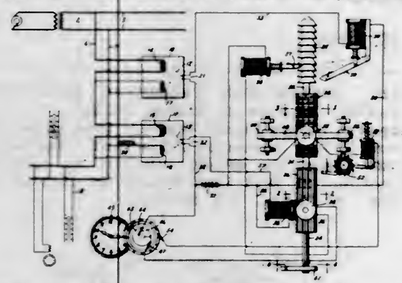
1. The combination with a motor, of parts movable to and from set positions, mechanism controlled by said parts in their set positions, a manipulative device for moving said parts from their set positions while said mechanism remains unoperated, and mechanism operable by the motor for moving said parts from their set positions while both said first-named mechanism and said manipulative device remain unoperated.

15,724. METER. RUDOLPH F. SCHUCHARDT, Chicago, Ill., assignor to General Electric Company, a Corporation of New York. Filed May 3, 1923. Serial No. 636,452. Original No. 1,370,161, dated Mar. 1, 1921, Serial No. 308,706, filed July 5, 1919. 54 Claims. (Cl. 234—5.5.)

1. In combination, a line adapted to have current flowing therein, characterized by two variables, integrating means responsive to one of said variables, separate integrating means responsive to the other variable and a common movable device jointly controlled by said means for mensuring and indicating a vector sum of said variables and means for periodically resetting said device.

7. The method of indicating maximum demand in terms of KVA over a given period, which comprises integrating the instantaneous values of the reactive

component over said period into predetermined units, integrating the instantaneous values of the power com-



ponent over said period into corresponding predetermined units, laying out said units as they are completed upon a surface graduated in terms of the hypotenuse of the right angle triangle formed by the two sides of a length corresponding to the units of reactive component and power component, respectively, and indicating by the graduation nearest the point so determined at the end of the period the value of KVA which is the vector summation of the integrated values of reactive component and of power component.

8. In combination a pair of meter elements responsive to different characteristics of an electric current, a common indicating element comprising a chart graduated in two dimensions, and a reference member, said indicating element being movable with respect to the reference member in two dimensions, said indicating element being subject to both meter elements, and adapted to indicate the vector resultant of the two characteristics over a given period of time.

44. In combination an integrating wattmeter for power component, an integrating wattmeter for reactive component, and temporary register means for registering the vector sum of the components measured by said wattmeters over a given period.

DESIGNS

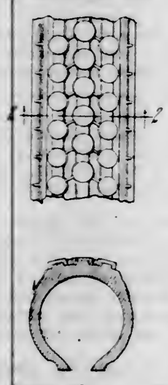
NOVEMBER 13, 1923.

63,250. PENDULET. GEORGE AINSWORTH, Great Neck, N. Y., assignor to Alfred Vester & Sons, Inc., Providence, R. I., a Corporation. Filed Apr. 26, 1923. Serial No. 5,967. Term of patent 7 years.



The ornamental design for a pendulet, as shown.

63,251. TIRE. EDWARD H. BROADWELL, Longmeadow, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Apr. 13, 1921. Serial No. 461,105. Term of patent 14 years.



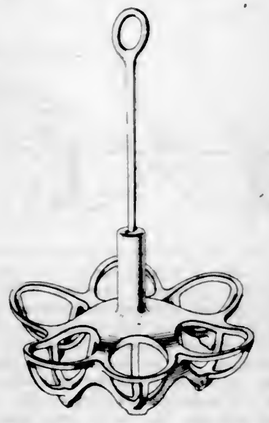
The ornamental design for a tire as shown.

63,252. BOWL. FREDERICK CARDER, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed Aug. 22, 1922. Serial No. 3,508. Term of patent 14 years.



The ornamental design for a bowl, as shown.

63,253. EGG TRAY. ROCCO DELARMI, New York, N. Y. Filed June 13, 1922. Serial No. 2,665. Term of patent 14 years.



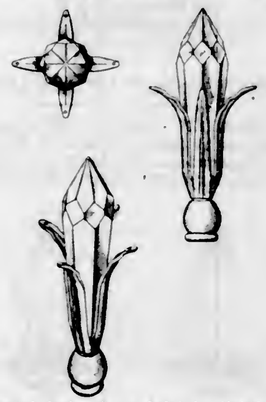
The ornamental design for an egg tray, as shown.

63,254. FANCY BAG. HETTIE J. DUDLEY, Richmond, Va. Filed May 16, 1923. Serial No. 6,170. Term of patent 7 years.



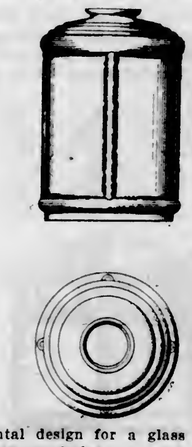
The ornamental design for a fancy bag as shown.

63,255. FINIAL FOR LIGHTING FIXTURES OR LAMPS. ANTON DVORAK, Berwyn, Ill., assignor to Beardslee Chandelier Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 2, 1923. Serial No. 5,680. Term of patent 7 years.



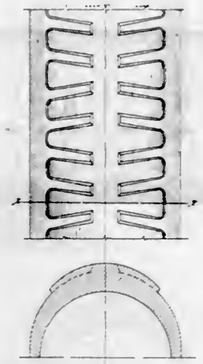
The ornamental design for a finial for lighting fixtures or lamps as shown.

63,256. GLASS HALL ILLUMINATING BOWL. EDGAR A. GILLINDER, Philadelphia, Pa., assignor to Gillinder & Sons, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 28, 1923. Serial No. 6,001. Term of patent 3½ years.



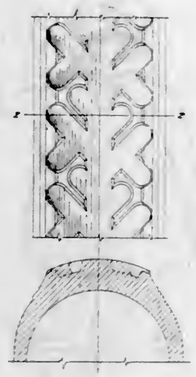
The ornamental design for a glass hall illuminating bowl showing my new design.

63,257. TIRE TREAD. EARL A. HECHT, Mansfield, Ohio. Filed Dec. 1, 1921. Serial No. 519,294. Term of patent 14 years.



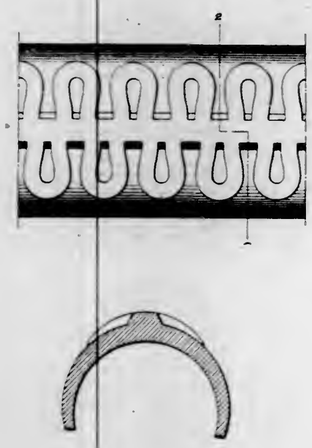
The ornamental design for a tire tread as shown.

63,258. TIRE TREAD. EARL A. HECHT, Mansfield, Ohio. Filed Dec. 1, 1921. Serial No. 519,296. Term of patent 14 years.



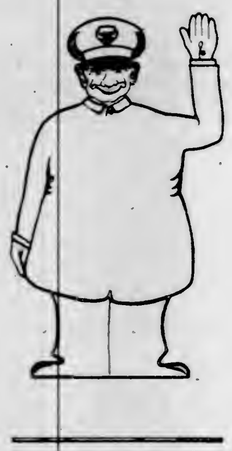
The ornamental design for a tire tread as shown.

63,259. VEHICLE TIRE TREAD. OSCAR D. HOLLENBECK, Racine, Wis., assignor to Racine Horseshoe Tire Company, Racine, Wis., a Corporation of Wisconsin. Filed Nov. 28, 1922. Serial No. 4,434. Term of patent 14 years.



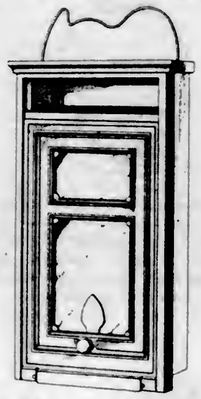
The ornamental design for a vehicle tire tread, substantially as shown.

63,260. ROAD SIGN. MORTIMER ISAACS, Helena, Ark. Filed Apr. 6, 1923. Serial No. 5,708. Term of patent 14 years.



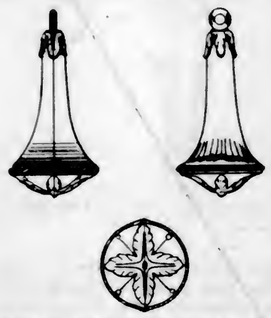
The ornamental design for a road sign, as shown.

63,261. LETTER BOX. ANGUS S. MACDONALD, Great Neck, N. Y., assignor to Decorative Arts League, Jersey City, N. J., a Corporation of New Jersey. Filed June 6, 1923. Serial No. 6,433. Term of patent 14 years.



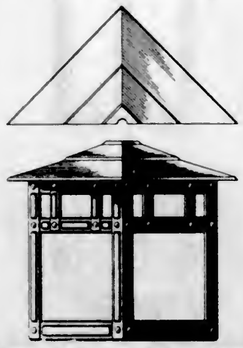
The ornamental design for a letter box, as shown.

63,262. PENDULET. GLENN E. MCFADDEN, Lakewood, Ohio, assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Nov. 15, 1922. Serial No. 4,293. Term of patent 14 years.



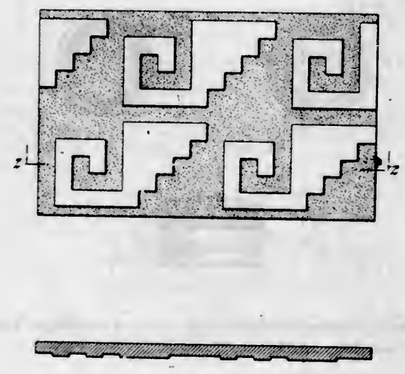
The ornamental design for a pendulet, as shown.

63,263. LIGHTING FIXTURE. PAUL MOHRMANN, Chicago, Ill., assignor to Friedley Voshardt Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 8, 1923. Serial No. 5,126. Term of patent 7 years.



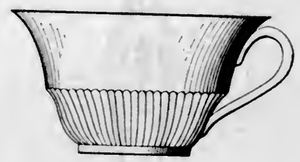
The ornamental design for a lighting fixture, as shown.

63,264. BUILDING TILE. QUINTUS MONIER, Tucson, Ariz. Filed Apr. 24, 1923. Serial No. 5,925. Term of patent 14 years.



The ornamental design for a building tile, as shown.

63,265. CUP OR SIMILAR ARTICLE. EARL W. NEWTON, Chicago, Ill. Filed May 31, 1923. Serial No. 6,365. Term of patent 7 years.



The ornamental design for a cup or similar article, as shown.

63,266. PERFUME-BURNING LAMP. NORMAN L. NORMANDI, San Francisco, Calif., assignor to Victor R. Will, Lodi, Calif. Filed Sept. 5, 1922. Serial No. 3,631. Term of patent 3½ years.



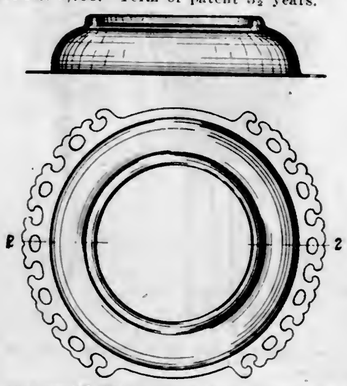
The ornamental design for a perfume-burning lamp, as shown.

63,267. NECKTIE. ISADORE B. PATZ, Baltimore, Md. Filed Aug. 26, 1922. Serial No. 3,566. Term of patent 3½ years.



The ornamental design for a necktie, as shown.

63,268. SPOON HOLDER OR SIMILAR ARTICLE. MORRIS RELKIN, New York, N. Y. Filed Apr. 12, 1923. Serial No. 5,790. Term of patent 3½ years.



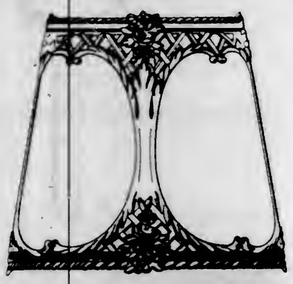
The ornamental design for a spoon holder or similar article as shown.

63,269. TOP PIECE FOR LIGHTING FIXTURES. JACOB RIBAYSEN, Chicago, Ill. Filed Jan. 2, 1923. Serial No. 4,801. Term of patent 3½ years.



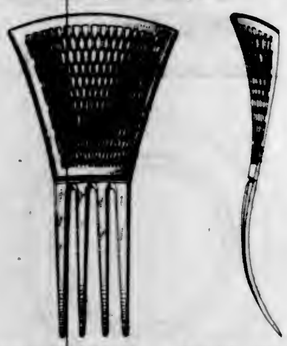
The ornamental design for a top piece for lighting fixtures, as shown.

63,270. LAMP OR OTHER SHADE. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Jan. 9, 1923. Serial No. 4,839. Term of patent 3½ years.



The ornamental design for a lamp or other shade, as shown.

63,271. SPANISH COMB. FRANK SPILL, East Rutherford, N. J., assignor to The Siesel-Spill Manufacturing Co., Inc., New York, N. Y. Filed Mar. 17, 1923. Serial No. 5,498. Term of patent 3½ years.



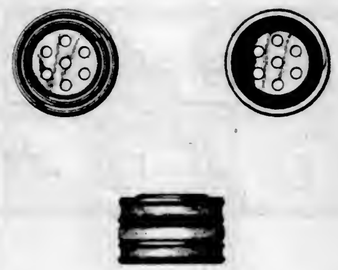
The ornamental design for a Spanish comb as shown and described.

63,272. STOCKING. RICHARD SCHLETTER, Philadelphia, Pa. Filed Mar. 24, 1921. Serial No. 455,161. Term of patent 14 years.



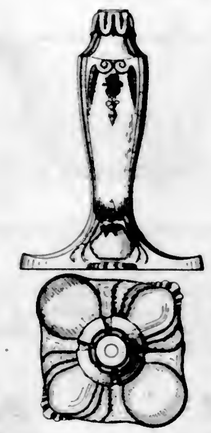
The ornamental design for a stocking, as shown and described.

63,273. CAP FOR A CONDIMENT HOLDER. WILLIAM A. SWITZER, New York, N. Y. Filed Mar. 2, 1922. Serial No. 989. Term of patent 7 years.



The ornamental design for a cap for a condiment holder substantially as shown.

63,274. LAMP STANDARD. FRANK YOKEL, Avalon, Pa., assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 1, 1923. Serial No. 5,042. Term of patent 7 years.



The ornamental design for a lamp standard, as shown.

63,275. EDGING. CARL O. WALLISER, Chicago, Ill., assignor to H. F. Walliser Company, Chicago, Ill., a Corporation of Illinois. Filed May 10, 1923. Serial No. 6,127. Term of patent 14 years.

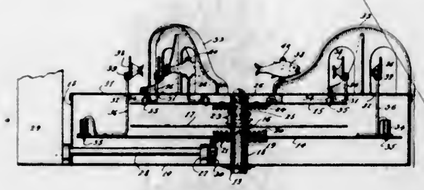


The ornamental design for edging as shown.

PATENTS

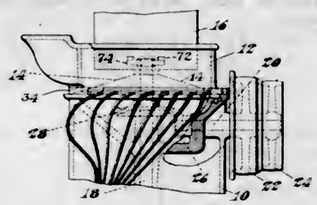
GRANTED NOVEMBER 13, 1923.

1,473,603. TOY FISHING GAME. JOHN M. S. ANDERSON, Bridgeport, Conn. Filed July 16, 1921. Serial No. 485,215. 5 Claims. (Cl. 46—56.)



1. A device of the character described, comprising a casing including a top and base, a pair of supports rotatably mounted in said casing, means for rotating said supports in opposite directions, carriers supported upon said supports and extending through said top, toys removably mounted upon said carriers, and means for imparting oscillatory movements to said carriers and toys.

1,473,604. MECHANISM FOR SORTING AND DELIVERING ARTICLES. ARTHUR BATES, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 27, 1919. Serial No. 279,485. 38 Claims. (Cl. 218—25.)

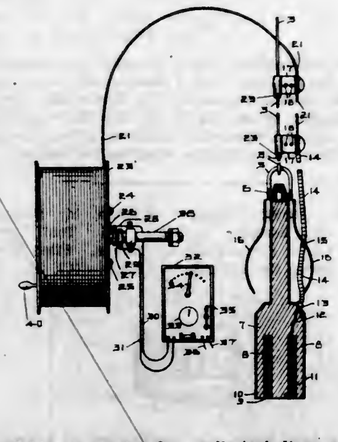


1. In a machine for sorting and delivering fasteners, means for containing a mass of indiscriminately arranged fasteners, said means having an outlet port at the bottom and comprising relatively movable elements constructed and arranged to engage the fasteners in the mass and thereby to execute successive phases of segregation as to each fastener before the latter can enter the outlet port, so that only those fasteners that lie in a certain predetermined position may enter the port.

1,473,605. CARBON REMOVER. WILLIAM F. BRAND and ERNEST O. QUARNSTROM, Chicago, Ill. Filed July 11, 1922. Serial No. 574,289. 7 Claims. (Cl. 87—5.)

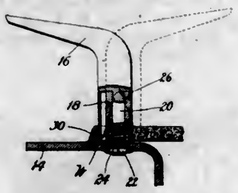
7. A carbon remover comprising a strip of sheet zinc in the form of a coil incrusted with a composition composed of sulphur, zinc oxide and zinc sulphate, melted and cooled while in contact with the metallic zinc.

1,473,606. FISHING APPARATUS FOR WELLS. ARTHUR H. BRANDON, Toledo, Ohio, assignor, by direct and mesne assignments, to The Deep Well Engineering Company, Toledo, Ohio, a Corporation of Ohio. Filed May 10, 1919. Serial No. 296,151. 5 Claims. (Cl. 294—88.)



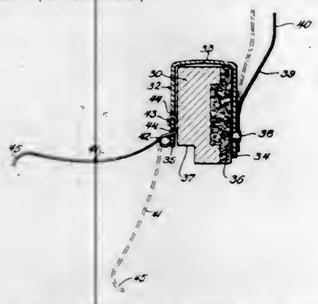
1. A fishing apparatus for wells including an electromagnet engaging tool, a hoisting line for the tool, and an additional conductor line for the tool, said tool comprising a stem engaged by the hoisting line, a first pole in alignment therewith, and an enlargement providing a second pole about the first pole.

1,473,607. REEL. JAMES A. BROGAN, Lawrence, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Apr. 27, 1918, Serial No. 231,205. Divided and this application filed Aug. 18, 1921. Serial No. 493,321. 9 Claims. (Cl. 242—127.)



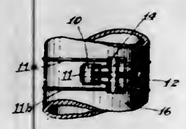
1. A winding machine comprising, in combination, a rotary support having a plurality of arms extending parallel to its rotational axis, one of said arms being eccentrically swivelled upon the support, and connections between the swivelled arm and the support constructed and arranged to permit the turning of said arm upon the support from a winding position into a releasing position in which the arm is displaced transversely with relation to the support.

1,473,608. HAMMER AND DAMPER SPRINGS FOR PIANO ACTIONS. ERNEST E. BUSER, Philadelphia, Pa. Filed June 9, 1922. Serial No. 566,928. 7 Claims. (Cl. 84—243.)



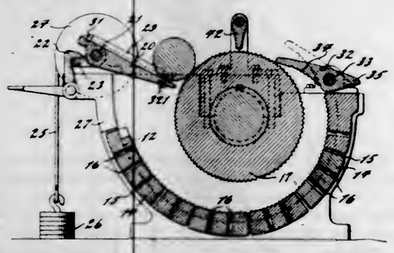
4. The combination with a hammer rail supporting a hammer and a damper, and a damper rail, of a U-shaped spring clip on the damper rail; a downwardly extending spring secured to one leg of the clip for engaging the hammer, and an upwardly extending spring secured to the other leg of the clip for engaging the damper.

1,473,609. HOSE CLAMP. WESLEY M. DAVENPORT, Elgin, Ill., assignor to Elgin Auto Tool Company, Elgin, Ill., a Corporation of Illinois. Filed Mar. 27, 1922. Serial No. 547,137. 6 Claims. (Cl. 24—19.)



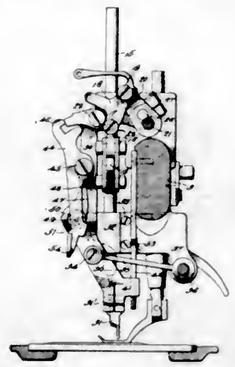
1. In a hose clamp, the combination of a first head, wires extending from said first head for encircling a hose to be clamped and passing said first head to engage a second head, a second head for engaging and retaining the ends of said wires, and a screw extending through one of said heads to engage and exert a thrust upon the other of said heads, whereby tightening said screw separates said heads and exerts a clamping action by said wires on the hose, said second head having wire guideways and retaining edges for receiving said wire ends and bending them into retaining joints to prevent said wires slipping in said second head.

1,473,610. SQUEEZER. THOMAS E. DAY, Belleville, N. J., assignor, by mesne assignments, to Hibbard Process Corporation, New York, N. Y., a Corporation of New Jersey. Filed June 21, 1921. Serial No. 479,188. 18 Claims. (Cl. 29—15.)



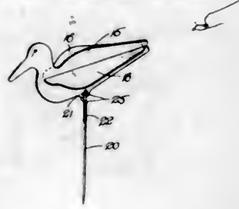
1. In a squeezer, a roll with its axis horizontal, a scroll surrounding the lower part of the roll and spaced therefrom to form a channel progressively decreasing in width from one side of the roll to the other, and means whereby a mass of puddled iron may be lowered slowly into the wide end of said channel while the roll is rotating.

1,473,611. TRIMMING DEVICE FOR SEWING MACHINES. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed July 29, 1919. Serial No. 314,087. 8 Claims. (Cl. 112—125.)



5. In a trimming mechanism for sewing machines, in combination, a trimmer-blade, an actuating arm, a carrier for said trimmer-blade pivotally supported upon said actuating arm, a latch pivotally supported upon said carrier for establishing and interrupting the operative connection between the carrier and its actuating arm without affecting their pivotal connection, and means carried by said latch and engaging a stationary part of the machine for retaining said carrier in retracted position.

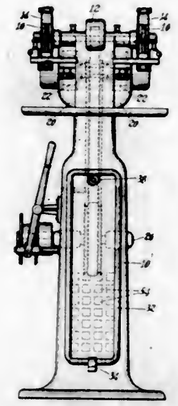
1,473,612. DECOY. CLARENCE L. DEWEY, Chicago, Ill. Filed June 23, 1922. Serial No. 570,425. 3 Claims. (Cl. 43—3.)



3. A decoy comprising a body composed of two interfitting relatively thin sheets; and a support having two members one of which is slotted to receive one of the body forming sheets, and a coiled spring interconnecting the two members and adjustable thereon to vary its flexibility.

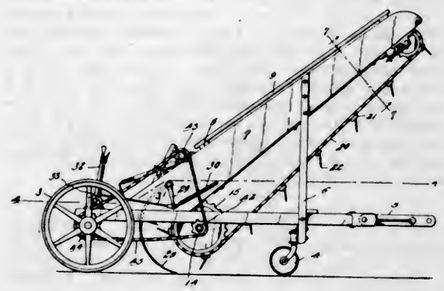
1,473,613. DUST-COLLECTING DEVICE. HARRISON H. EATON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 27, 1918. Serial No. 236,820. 21 Claims. (Cl. 51—273.)

1. In a machine of the class described, a hollow supporting standard, an abrading member mounted on the standard for operative movement, said standard being provided with an opening having a removable closure and a porous receptacle contained in the standard to which the dust caused by the action of the abrading member on the work is delivered through the standard from the abrading member, said receptacle being operatively connected to said closure in such a fashion that



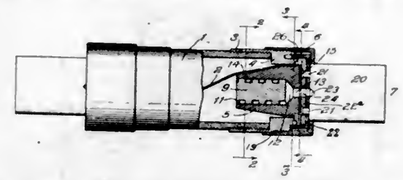
the removal of the closure will remove the porous receptacle in a manner calculated to prevent spilling the contents of said receptacle.

1,473,614. HAY LOADER. HENRY J. FERSDAHL, Renner, S. Dak. Filed May 16, 1922. Serial No. 561,440. 1 Claim. (Cl. 56—360.)



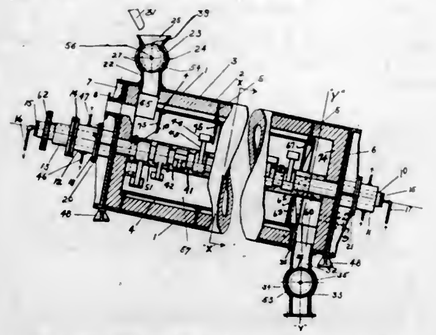
In a hay loader, a wheeled frame including a rear axle and ground wheels thereon, a conveyor housing on said frame extending upwardly therefrom at an angle thereto and having its rear end connected to the frame and its forward end arranged above the frame, said housing comprising side boards and cross bars connecting said side boards, a conveyor comprising sprocket wheels arranged at the top and bottom ends of said housing, respectively, endless chains trained over said sprocket wheels, conveyor elements arranged transversely of said chains and secured thereto and spaced apart equal distances and adapted when on the upper run of the chains to enter the housing and on the lower run of the chains to leave the housing, ground engaging tines at the lower end of said housing designed to gather the hay and deliver the same to said conveyor, agitating elements arranged between said tines at the lower end of said conveyor and designed to agitate the hay in the tines to facilitate the delivery thereof to said conveyor, a crank shaft connected to said agitator elements for oscillating the latter to agitate the hay, means for driving said conveyor and said crank shaft, said means including sprocket wheels on said axle, said crank shaft and one of the conveyor shafts and an endless chain trained over all of said sprocket wheels.

1,473,615. ELECTRIC FUSE. GEORGE R. FOLDS, Chicago, Ill., assignor to Cook Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 20, 1920. Serial No. 425,309. 13 Claims. (Cl. 200—132.)



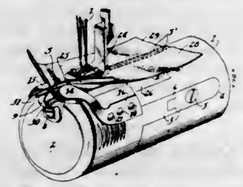
1. In a renewable electric fuse, a removable washer having a smooth longitudinal bore formed therein, and an exteriorly threaded plug inserted in said bore to furnish a helical venting path through the washer and adjacent to said threaded plug.

1,473,616. RETORT FOR THE DISTILLATION OF SHALE, BITUMINOUS COAL, AND OTHER MATERIALS. CLAUDE M. GARLAND, Chicago, Ill. Filed Feb. 11, 1921. Serial No. 444,090. 7 Claims. (Cl. 196—19.)



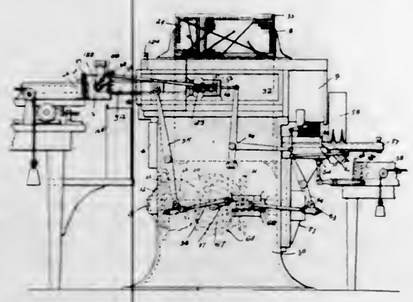
1. In a device of the character described, a substantially horizontally arranged cylindrical retort, a charging device located near one end of the said retort, a discharging device located near the opposite end of the said retort, a false head near the discharge end of the said retort, an aperture for the discharge of material located in the said false head and a gate for varying the opening of the said aperture.

1,473,617. SEWING-MACHINE GUIDE. GEORGE S. GATCHELL, Roselle Park, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Feb. 14, 1921. Serial No. 444,775. 9 Claims. (Cl. 112—136.)



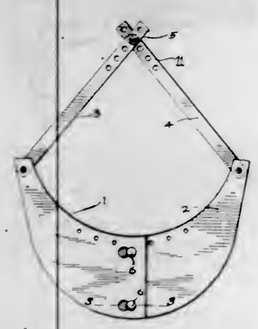
6. A sewing machine guide comprising a central guide element having an upwardly directed ridge, a pair of laterally yielding guide arms disposed at opposite sides of said ridge, and means for laterally adjusting said guide-arms.

1,473,618. CARD-PUNCHING MACHINE. JAMES H. GAULT, Philadelphia, Pa. Filed June 9, 1920. Serial No. 387,596. 19 Claims. (Cl. 164—115.)



1. In a card punching machine the combination of a gang of punches and co-operating mechanism, keys for locking the punches, electromagnets for operating said keys, conductive contact needles for selectively controlling said electromagnets, movable conductive plate co-operating with said needles to make contact, pattern means acting between and limiting the extent of the electrical contact of said plate with said needles, means for interchanging the said needles among the said magnets.

1,473,619. EYESHADE. LOUIS J. GERHARDT, West New York, N. J. Filed Nov. 5, 1921. Serial No. 512,992. 2 Claims. (Cl. 2—149.)

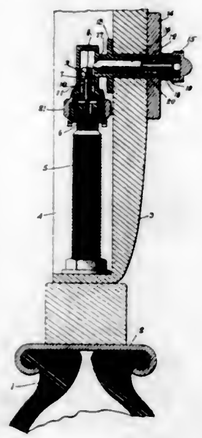


1. An eye-shade comprising the combination of two sections of thin flexible material which, when joined together present an approximately crescent-shaped sheet, two flexible retaining strips, each of which is pivoted at one end to the pointed portion of one of the above described sections, while their other ends are pivoted together, and detachable fastening means for holding the larger ends of the said sections together at a plurality of points to form the above described crescent shaped outline.

1,473,620. COMPOSITION FOR CLEANING ENAMELED SURFACES. MILTON M. GOLDSTEIN, Minneapolis, Minn. Filed Apr. 28, 1920. Serial No. 377,101. 2 Claims. (Cl. 87—5.)

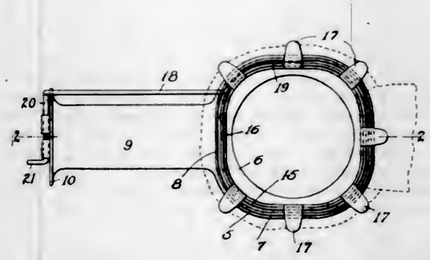
1. A composition for cleaning enameled surfaces consisting of an oily base ten to thirty parts, benzol ten to thirty parts, and a light hydrocarbon oil fifty to seventy-five parts.

1,473,621. VALVE. EUGENE J. B. GORMAN, Dayton, Ohio. Filed Sept. 25, 1920. Serial No. 412,844. 6 Claims. (Cl. 152—12.)



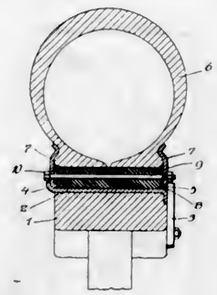
6. In a valve for tires or the like, a fitting having means for detachable connection to the tire valve, a packing washer adapted to make a tight joint with the tire valve, a pin member having a guide abutting against said packing washer, a spring normally holding said pin member in its uppermost position, said pin member being adapted when depressed to open the valve, a second pin member moving at an angle with the first and having a part adjacent to the end of the fitting for engagement with a gauge or the like, and the pin members having a wedging connection at their adjacent ends whereby a movement of the second member is transmitted to the first.

1,473,622. EMBROIDERY FRAME. WILLIAM H. GOSCH, Reading, Pa., assignor to The Nolde & Horst Co., Reading, Pa., a Corporation of Pennsylvania. Filed Jan. 18, 1922. Serial No. 530,065. 2 Claims. (Cl. 112—121.)



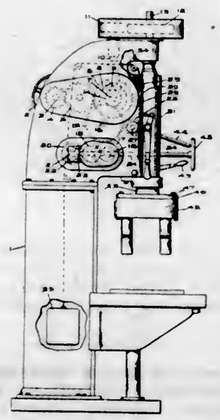
1. An embroidery frame for tubular fabrics comprising a ring-shaped base member having a horizontal seating ledge, a vertical clamping wall with a recess formed therein, and a handle extending therefrom; and a cooperating band ring member seating on said ledge within said clamping wall, and provided with upwardly and outwardly projecting prongs and a registering recess.

1,473,623. TIRE MOUNTING. WILLIAM T. GULLEDGE, Matthews, N. C. Filed Feb. 21, 1922. Serial No. 538,262. 6 Claims. (Cl. 301—11.)



1. A tire mounting, comprising a plurality of filler members adapted to be directly mounted on the felly band of a wheel between the band and the bottom of a tire casing, means for clamping said members to prevent individual lateral movement, and means for securing said members on the felly band of a wheel.

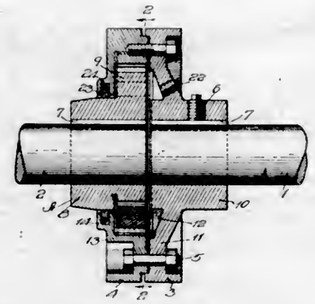
1,473,624. MACHINE TOOL. GEORGE E. HALLENBECK, Toledo, Ohio, assignor to Baker Brothers, Toledo, Ohio, a Firm. Filed Dec. 15, 1919. Serial No. 344,819. 5 Claims. (Cl. 77—33.)



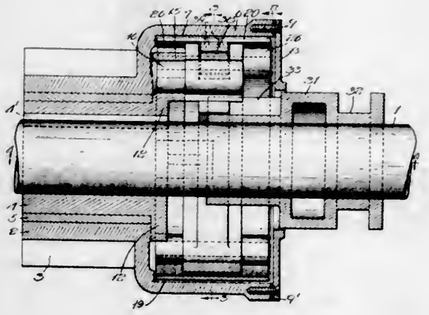
1. A drill press embodying a rotary drill spindle, a frame providing a bearing, and a sleeve reciprocable in said bearing and in which sleeve the spindle is rotatable, said frame being provided with an annular recess open in a plane radial of the spindle, and said sleeve being provided with a shoulder for entering said recess for coacting in sleeve reciprocation to cushion the sleeve adjacent a limit of travel thereof.

1,473,625. COUPLING DEVICE. ERIC O. HAMREN, Chicago, Ill. Filed Jan. 17, 1921. Serial No. 437,845. 10 Claims. (Cl. 64—96.)

1. A device of the kind described, comprising a pair of coupling members adapted to retain a lubricant therebetween, a spring comprising a series of laminæ intermediate said members to transmit the drive from one to the other, and means for automatically separating the ends of said spring laminæ when power is applied to the driving members of the pair of couplings, whereby the lubricant may enter between said laminæ.

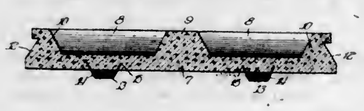


1,473,626. FRICTION CLUTCH. ERIC O. HAMREN, Chicago, Ill. Filed Jan. 29, 1921. Serial No. 440,975. 19 Claims. (Cl. 192—78.)



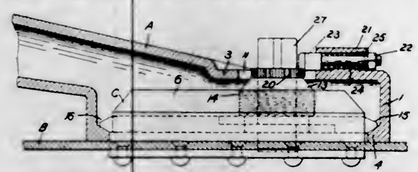
1. A plurality of elements and mechanism for operatively connecting the same whereby one may be driven by the other, said mechanism comprising a friction element, a resilient expander therefor arranged to carry said friction element and engage the same at a plurality of spaced points, and operating means for rocking said expander.

1,473,627. BUILDING BLOCK. ARTHUR G. HATCH, Duluth, Minn. Filed Sept. 22, 1922. Serial No. 589,811. 8 Claims. (Cl. 72—41.)



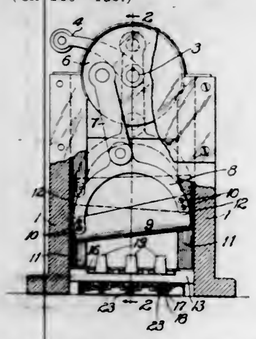
1. A building block having an exposed exterior surface, a portion extending above its surface, and a layer of insulating material covering said portion.

1,473,628. TRAIL FOR GUN CARRIAGES. BRYAN P. JOYCE, Davenport, Iowa. Filed Sept. 6, 1923. Serial No. 661,265. 6 Claims. (Cl. 89—40.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



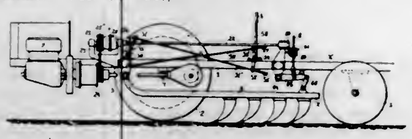
6. A gun trail provided with a recess, a locking member projecting into said recess, slides on said locking member, means on said trail adapted to cooperate with said slides for locking the locking member to said trail and means to actuate said slides for reciprocable movement.

1,473,629. CUTTING MACHINE. GODEL KALENOFF, St. Louis, Mo. Filed July 16, 1923. Serial No. 651,796. 6 Claims. (Cl. 146—159.)



1. A cutting machine comprising a rotary disk, a yoke member suspended therefrom, a knife secured at its ends to the ends of said yoke and guideways for the ends of said yoke member.

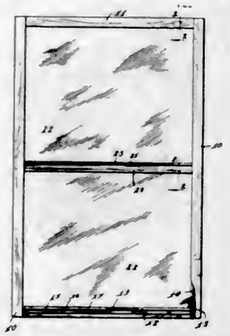
1,473,630. MOTOR PLOW. FRANK KEC, Prague, Czechoslovakia. Filed Aug. 23, 1919. Serial No. 319,480. 3 Claims. (Cl. 97—50.)



1. In a motor plow the combination of a plow frame and axle and driving wheels a share frame pivoted to the plow frame at a point in proximity to the said axle and means for vertically adjusting the other end of the share frame such means comprising a vertical screw spindle a lever fulcrumed in the plow frame a link connecting the screw spindle with the lever and another link connecting the lever with the share frame.

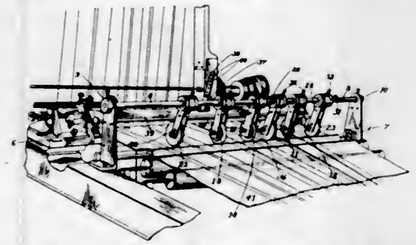
1,473,631. WINDOW SCREEN AND STORM SASH COMBINED. JOHN JAKOBI KELDSEN, Atlantic, Iowa. Filed May 1, 1922. Serial No. 557,748. 2 Claims. (Cl. 20—55.)

1. In a device of the class described, the combination of a window sash frame having grooves on the inner edges of its side members and on the under edge of its top member, two panels mounted in said grooves, and a connecting strip between them formed of sheet metal, and having an upwardly extended socket to receive the upper panel, and a downwardly extended socket to receive the upper edge of the lower panel, said connecting strip being loosely mounted in the sash and being supported by the



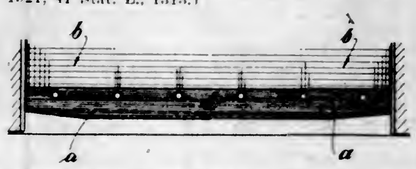
lower one of the panels, the central portion of the connecting strip being extended from the upper socket member downwardly and outwardly to the lower socket member, and said upper socket member being provided with drainage openings at its bottom.

1,473,632. PERFORATING ATTACHMENT FOR RULING MACHINES. WILLIAM GEORGE KNIGHTS, Calgary, Alberta, Canada. Filed Apr. 18, 1922. Serial No. 554,663. 9 Claims. (Cl. 164—100.)



1. The combination with the pen beam of the ruling mechanism and a supporting shaft of a ruling machine, of perforating wheels carried by said shaft and means to connect said perforating wheels for operation with the pen beam.

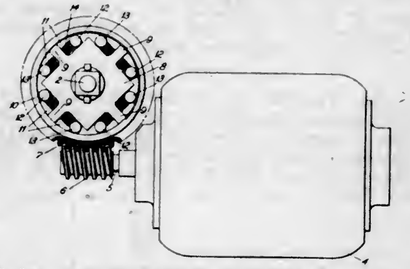
1,473,633. APPARATUS FOR MEASURING GRANULAR OR POWDERED MATERIAL. JAMES EDWARD LEA, Manchester, England. Filed Feb. 18, 1920. Serial No. 359,661. 2 Claims. (Cl. 198—57.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a device of the character described comprising a hopper having an opening therein, an endless grate disposed below the hopper and receiving material therefrom, a reciprocating door for regulating the flow of material from the hopper and a strickle appliance rigidly secured to the lower end of the door on the front side

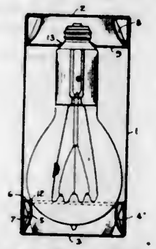
and extending below the lower edge of the hopper opening, the said strickle having a flat edge at its center and upwardly tapering edges extending from the flat portion to the sides thereof so that material fed past the strickle will be thickest at the sides of the grate.

1,473,634. VALVE-OPERATING MECHANISM. WARREN P. LOUDON, Niagara Falls, N. Y., assignor to Vapor Car Heating Company, Inc., Chicago, Ill., a Corporation of New York. Filed Apr. 5, 1918. Serial No. 226,967. 7 Claims. (Cl. 137—139.)



7. In combination, a valve having a stem, a motor for turning said stem, said valve being provided with a pair of nuts, and holding means for said motor including a pair of members embracing said valve, said members being held in place by said nuts, one of said members being provided with extensions carrying adjusting screws adapted to engage said valve.

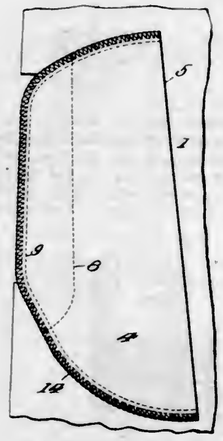
1,473,635. CARTON FOR FRAGILE ARTICLES. LEON MANN, Mount Vernon, and MORRIS KOPPELMAN, Brooklyn, N. Y., assignors to Holed Tite Egg Packing Corporation, a Corporation of Delaware. Filed Feb. 3, 1922. Serial No. 533,766. 7 Claims. (Cl. 229—6.)



3. In a container for fragile articles, a removable diaphragm adapted to be placed in the container in a position adjacent to but spaced from an end of the container, wings on the margin of the diaphragm extending to the end of the container for holding the diaphragm away from the container end, said diaphragm being provided with an opening forming a seat in which to receive the article, and the edges of the opening having numerous small tooth-like projections whereby to provide resilient article-engaging projections.

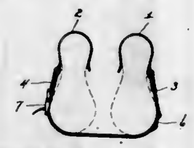
6. In a container for fragile articles, a diaphragm positioned in the container and spaced from one end thereof, said diaphragm being provided with an opening forming a seat in which to receive the article, said diaphragm having wing members extending to the adjacent end of the container, and flap members on the end of the container arranged to be turned inwardly into supporting engagement with the diaphragm being provided with openings forming seats in which to receive the opposite reduced end portions of the bulb, the edges of the openings having a toothed formation to provide resilient bulb engaging members, and flap members carried by the ends of the container and adapted to be turned inwardly into supporting engagement with said diaphragm, said flap members being longer than the distances between the diaphragms and the adjacent container ends whereby the flap members will assume a resilient curved formation when in diaphragm-engaging position.

1,473,636. GARMENT POCKET. JAMES R. MOFFATT, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 20, 1919. Serial No. 318,702. 1 Claim. (Cl. 2—15.)



A garment pocket comprising inner and outer fabric portions shaped to form a pocket, the free edges of said inner and outer portions being independently joined to the garment at the pocket opening, said free edges being united throughout the remainder of their extent by covering stitches and a line of double locked stitches disposed at a greater distance from the edges of the fabric portions than the innermost part of the covering stitches and substantially parallel therewith.

1,473,637. HOPPLE. EDWARD MOORE, Colonie, and SIDNEY F. WELSH, Elsmere, N. Y. Filed Jan. 6, 1921. Serial No. 435,530. 1 Claim. (Cl. 119—128.)

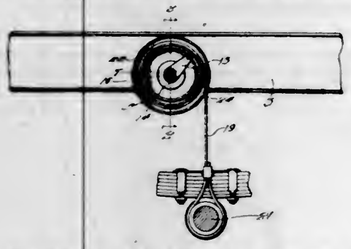


A hopple comprising a pair of shackles severally formed of an elongated loop of metal of U-shape circular in cross section, a flat canvas strap-member attached at one end to one end of one of the shackles and having at its other end an eye, and another flat canvas strap-member attached to one end of the other shackle, said latter strap-member having a buckle and being extended beyond the buckle through said eye and back through the buckle with which it makes adjustable connection.

1,473,638. RECOIL CHECK. GEORGE L. MOORE, Chicago, Ill. Filed July 29, 1920. Serial No. 399,834. 12 Claims. (Cl. 267—10.)

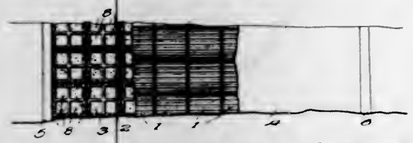
1. In a device of the character described, a stationary disc having a post projecting therefrom at the axis thereof, a cup-shaped drum loosely surrounding the post

and frictionally engaged at the bottom thereof with the stationary disc, a disc loose on said post within the cup and engaging with the bottom thereof, a spring exerting an approximately constant pressure on the movable disc in a direction to force it toward said stationary disc, a shoulder on said post, and a cam device be-



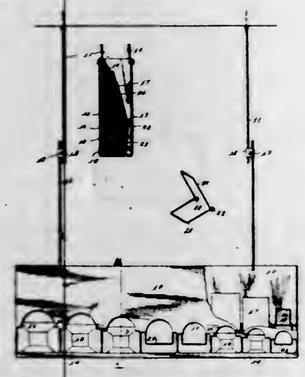
tween said shoulder and the movable disc for forcing the movable disc toward the stationary disc when the movable disc is turned in one direction, a member connected to said drum for rotating the drum in the last named direction, and a spring acting on the drum and tending to hold it in a predetermined angular position.

1,473,639. ROAD OR PAVEMENT. JAMES BENTON PAGE, Birmingham, Ala. Filed May 24, 1920. Serial No. 383,739. 2 Claims. (Cl. 94—11.)



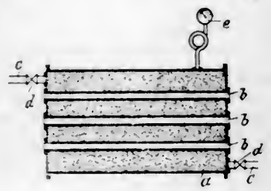
1. A road comprising two layers of hollow tiles the lower layer being arranged flatwise and the upper layer being arranged vertically thereon, with a filling of base material in the vertical tiles and a top of finishing material on the base material.

1,473,640. PAPER-BAG HOLDER. ALGOT D. PETERSON, Alta, Iowa. Filed Apr. 11, 1922. Serial No. 551,578. 1 Claim. (Cl. 211—2.)



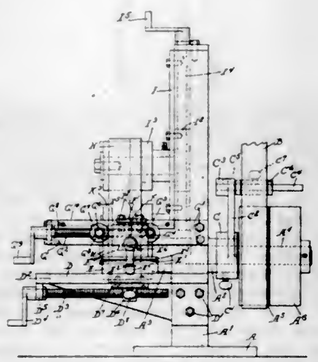
A paper bag holder designed for use with that class of paper bags in which the bottom portion of the bag is folded over against one side of the bag, said device comprising in combination a bottom member upon which bags may be supported, a front member, said front member having at its bottom an upwardly projecting bag retaining leg, said front also being formed with an opening in its front above the bottom through which an operator may extend his fingers and grasp the upper edge of the folded bottom of a paper bag, said front also being formed with downwardly extending lugs on opposite sides of said opening, to engage the upper side edges of the folded bottom of the paper bag, and a spring actuated means for yieldingly holding bags within the device against the said front, said means comprising a rod and a spring formed complete of a single piece of wire and comprising two coil springs mounted upon said wire, one portion of the wire being extended upwardly from the coils to yieldingly engage the top portions of the bags, and another portion of the wire being extended downwardly from the coils to engage the bottom portions of the bags, to thereby apply pressure to the bags at the top and bottom portions thereof only, for the purposes stated.

1,473,641. PROCESS OF DRY DISTILLING AND CARBONIZING CRUDE PEAT. OTTO POHL, Planegg, near Munich, Germany. Filed Aug. 24, 1921. Serial No. 494,883. 12 Claims. (Cl. 44—27.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



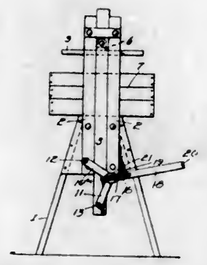
12. In a device for distilling and carbonizing crude peat or the like, a cylindrical retort containing the peat or the like, a plurality of radiators extending through the retort parallel with the longitudinal axis thereof, a plunger within said retort, knives mounted on said plunger to pass between the walls of said radiators nearest to the center line of the retort, and knives mounted on said plunger to pass between the walls of the radiators and the wall of the retort.

1,473,642. BELT CUTTER. HUGO REICHEL, Chicago, Ill. Filed Mar. 27, 1922. Serial No. 547,170. 20 Claims. (Cl. 164—39.)



1. A machine for longitudinally cutting belts comprising a belt driving pulley and a belt supporting pulley and means for varying the distance therebetween comprising a track member, a sliding pulley support mounted therein and means for moving said pulley support along said track element, and a cutting element adapted to operate on said belt intermediate said pulleys.

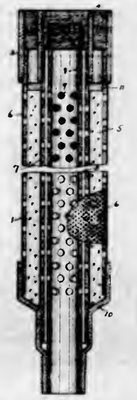
1,473,643. BOX-COVER PRESS. JOSEPH W. ROBBINS, Wilton, N. H. Filed Nov. 15, 1922. Serial No. 601,104. 2 Claims. (Cl. 100—57.)



1. A box cover press comprising a support for the box, slides on opposite sides of the support, pairs of guides outside of the support, with a slide between each pair of guides, a follower connected to and participating in the movements of the slides, and a toggle actuator for the slides.

2. A box cover press comprising a support for the box, slides on opposite sides of the support, pairs of guides outside of the support, with a slide between each pair of guides, a follower connected to and participating in the movements of the slides, and a toggle actuator for the slides, said guides and follower having associated with them an extension spring tending to hold the toggle actuator in the extended or locked position.

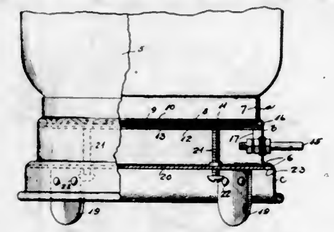
1,473,644. WELL SCREEN. HENRY RODRIGO, Sr., Houston, Tex. Filed Aug. 5, 1921. Serial No. 490,116. 4 Claims. (Cl. 166—5.)



1. A well screen including two concentric perforated pipes, aggregate between said pipes, and a removable tubular screen within the inner pipe, and spaced therefrom.

1,473,645. ELECTRIC HEAT DEVICE. THOMAS C. RUSSELL, Chicago, Ill. Filed Sept. 18, 1922. Serial No. 588,813. 3 Claims. (Cl. 219—44.)

1. In an electrical heated utensil, the combination of a container, an annular supporting base therefor, a flat electric heating unit within said base applied against the bottom of said container, a pressure plate applied against said unit, an abutment plate below said pressure plate, abutment screws threading through said abutment plate against said pressure plate to cause said unit to be forced into intimate contact with said bottom, there being



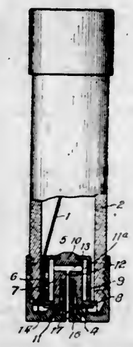
an insulating air space between said plates, and terminals for said unit in said air space and extending to the exterior of said base.

1,473,646. RENEWABLE ELECTRIC FUSE. ROY G. SANDS, Waukegan, Ill., assignor to Cook Electric Company, Chicago, Ill., a Corporation of Illinois. Filed June 3, 1920. Serial No. 386,208. 7 Claims. (Cl. 200—132.)



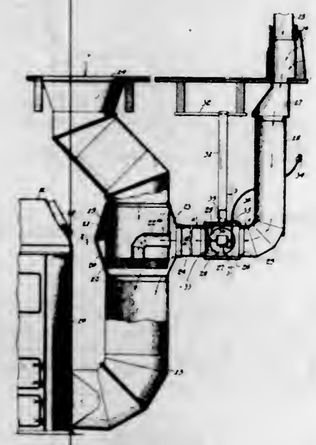
1. An enclosed renewable fuse comprising a tubular container, a knife blade terminal member having a flat portion covering the end of said tubular container, a washer beneath said flat portion, said flat portion and said washer being provided with superposed lugs engaging said container, a fuse link having a bent-over end retained between said flat portion and said washer, and means for retaining said flat portion on said container.

1,473,647. RENEWABLE ELECTRIC FUSE. ROY G. SANDS, Chicago, Ill., assignor to Cook Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 22, 1920. Serial No. 425,648. 14 Claims. (Cl. 200—132.)



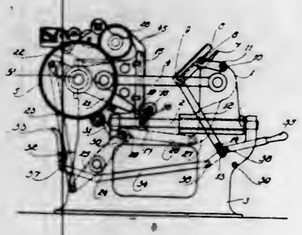
1. An enclosed electric fuse comprising a washer of unitary structure having a defined tortuous passageway formed therethrough for restricting the venting of the associated electric fuse.

1,473,648. AIR CIRCULATOR. ALBERT G. SCHERER, Chicago, Ill., assignor to The Excelsior Steel Furnace Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 5, 1922. Serial No. 586,165. 6 Claims. (Cl. 98—27.)



1. The combination with an air conduit, of a fitting interposed therein consisting of oppositely tapered outer walls converging away from each other and adapted to fit adjacent portions of said conduit, an inner wall of substantially the diameter of the conduit arranged within said fitting in spaced relation to said tapered walls to provide a passageway therebetween, an L-shaped injector tube within said fitting and discharging into the same, and means connected with the outer walls adjacent the intake of the injector tube for discharging air into the fitting and injector tube.

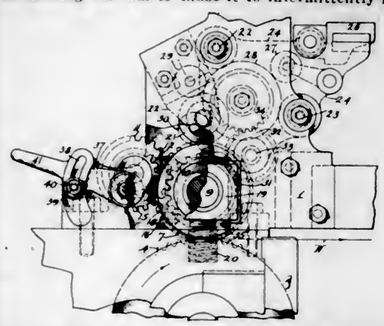
1,473,649. PLATEN PRINTING PRESS. ALFRED SCHLESINGER, Dusseldorf, Germany. Filed Dec. 15, 1921. Serial No. 522,646. 19 Claims. (Cl. 101—287.)



1. In a platen printing press in combination, a form, a platen adapted to reciprocate in a position parallel to said form, a register plate and means for applying said plate against and for rocking it relatively to said platen, respectively.

1,473,650. LATE-NEWS-PRINTING DEVICE. EDWARD P. SHELDON, Brooklyn, N. Y., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed Sept. 3, 1921. Serial No. 498,375. 7 Claims. (Cl. 101—247.)

1. The combination of an impression cylinder, a late news form cylinder, connections for driving the form cylinder from the impression cylinder, means for normally holding the cylinders out of printing contact, a cam, gearing for driving the cam to cause it to intermittently move



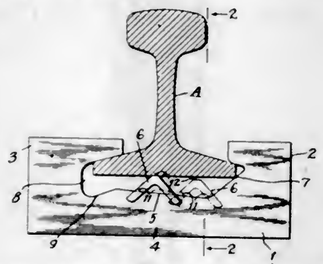
the form cylinder in contact with the impression cylinder, and connections for rendering the gearing inoperative to drive the cam.

1,473,651. AUTOMOBILE FRAME AND PRESSED-STEEL CONSTRUCTIONAL ELEMENTS THEREFOR. REUBEN STANLEY SMITH, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Sept. 12, 1921. Serial No. 500,018. 10 Claims. (Cl. 280—106.)



1. A curved flanged bar for an automobile frame, comprising a central web and flanges of sheet metal, the latter extending laterally from the plane of the web, the body of the flanged bar in portions being constituted of stock of normal gauge, and in other portions constituted of integrally reinforced stock of increased gauge.

1,473,652. ANTICREEPER. JAMES ROBERT STEELE, Owego, N. Y. Filed Feb. 23, 1923. Serial No. 620,575. 7 Claims. (Cl. 238—324.)

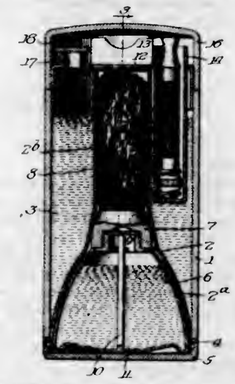


7. An anti-creeper comprising a flat plate yoke formed with hook ends to engage the rail-base and a connecting under-rail portion, and an inverted V member slotted to straddle said under-rail portion and adapted to bear at its apex against the bottom of the rail.

1,473,653. SHAVING KIT. THOMAS J. STEPHENS, Cleveland, Ohio. Filed Jan. 30, 1922. Serial No. 532,646. 5 Claims. (Cl. 132—80.)

2. In a shaving kit, a casing, a brush pocket centrally and longitudinally disposed in said casing and having a tapered portion and an elongated portion beyond the tapered portion, said pocket forming with said casing annular storage space for lather-forming material, a brush inserted in said pocket comprising a dispensing container

conforming substantially to the tapered portion of the pocket and thereby raising the storage capacity of that



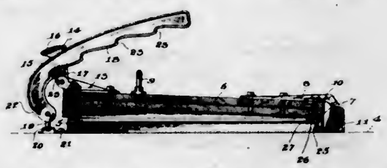
portion of the kit and bristles carried by said dispensing container, guided by said tapering portion into the prolongation of said pocket.

1,473,654. UMBRELLA IDENTIFIER. HENRY SUMNER, New Bedford, Mass. Filed Dec. 19, 1922. Serial No. 607,762. 3 Claims. (Cl. 40—19.)



1. A device of the class described comprising a tubular body having a peripheral depression formed thereon, an identification card housed in said depression, a retainer sleeve fixed exterior of the body having an opening therein of smaller dimensions than the depression, said retainer sleeve having a slot adjacent to the side of the opening and adapted to communicate with the depression and means for concealing the card.

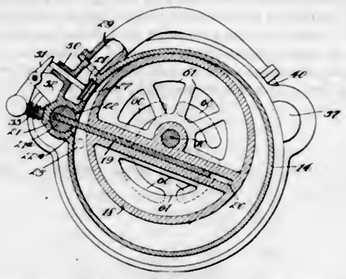
1,473,655. HATCH COVER AND MEANS FOR SUPPORTING AND LOCKING THE SAME. EDWARD A. SWEELEY, Alexandria, Va., assignor to The Wine Railway Appliance Co., Toledo, Ohio, a Corporation of Ohio. Filed Oct. 3, 1922. Serial No. 592,060. 11 Claims. (Cl. 292—262.)



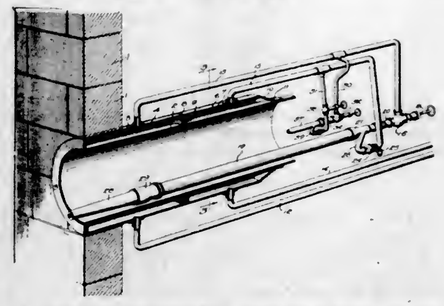
1. In combination with a hatch frame, a hatch cover pivotally mounted on said frame, means pivotally secured to the hatch cover, supporting means pivotally secured to the hatch frame and the two said means frictionally cooperating to lock the hatch cover on said frame and to permit said hatch cover to be supported in one of a number of positions when both of said means are operated.

1,473,656. ROTARY INTERNAL-COMBUSTION ENGINE. JAMES H. WAGENHORST, Jackson, Mich. Filed Sept. 8, 1917, Serial No. 190,298. Renewed Mar. 16, 1923. 11 Claims. (Cl. 123—8.)

1. The combination with a shaft, of a plurality of cylinders mounted upon said shaft and moving in unison, said cylinders communicating with each other, means for compressing a charge in the first mentioned cylinder, means for releasing said charge at a predetermined pressure and delivering the same to the second cylinder, means for igniting said charge in the second cylinder, and means contained within said second cylinder for receiving the force of the explosion.

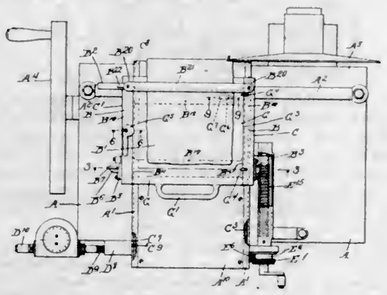


1,473,657. FUEL-OIL BURNER. ROBERT WALTONN WIEDERWAX, Atlantic City, N. J., assignor to Geist Manufacturing Company, Atlantic City, N. J., a Corporation of Delaware. Filed Nov. 2, 1922. Serial No. 598,692. 5 Claims. (Cl. 158—56.)



1. A burner for liquid fuel comprising a burner casing, a burner pipe arranged in said casing, a retort surrounding a portion of said casing, a preheater for fluid surrounding another portion of said casing, connections between said burner pipe, said retort and said preheater, an auxiliary burner arranged in said casing, and connections between said auxiliary burner, said retort and said preheater.

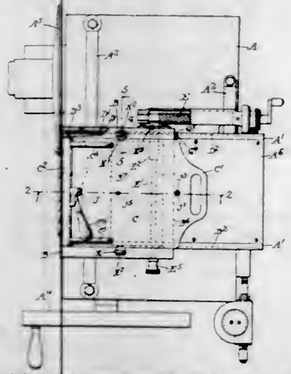
1,473,658. SLICING MACHINE. WALLACE B. WOLFF, Chicago, Ill. Filed May 18, 1922. Serial No. 561,810. 35 Claims. (Cl. 146—102.)



1. In a slicing machine a reciprocating member, and means for reciprocating it across the face of the cutting element, a carrier mounted thereon, and means for feed-

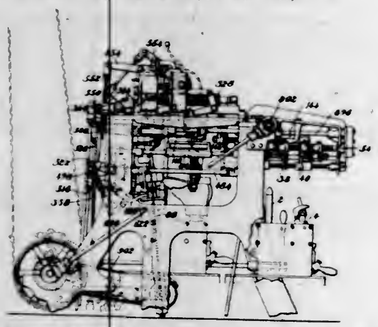
ing it toward the cutting element in response to said reciprocation, comprising a worm on said reciprocating element, a nut on said carrier and means for rotating said worm to advance said carrier, comprising a pulley on said worm, a lever mounted on said reciprocating member, a pulley carried by said lever, a flexible element bent about each of said pulleys, and means for rotating the worm by varying the distance between said pulleys.

1,473,659. SLICING MACHINE. WALLACE B. WOLFF, Chicago, Ill. Filed Mar. 19, 1923. Serial No. 625,993. 11 Claims. (Cl. 146—102.)



6. In a slicing machine comprising a cutting element, a meat carriage and a meat support adapted to be moved forwardly upon said carriage, a meat carrying plate and means for longitudinally adjusting it upon said support.

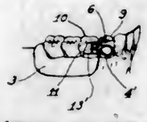
1,473,660. MACHINE FOR OPERATING ON SHOES. ERASTUS E. WINKLEY, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 10, 1919. Serial No. 288,958. 49 Claims. (Cl. 12—78.)



1. A machine for operating on shoes, having, in combination, a shoe support, mechanism for automatically operating on a shoe on the support, means adapted to be brought into register with the shoe on the support to effect a preliminary setting of the automatic mechanism, and actuating mechanism adapted to be connected with and disconnected from said means by the operator to manually effect a preliminary setting.

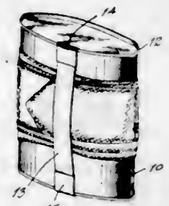
49. A machine for operating on shoes, having in combination, a shoe support, a tool carriage mounted to swing about an axis substantially normal to the shoe sole, a tool movably mounted on the carriage and adapted to engage the sole, and means for swinging the carriage about its axis and for steering the tool on the carriage to maintain the tool substantially normal to the sole edge.

1,473,661. ATTACHMENT FOR PARTIAL PLATES OR REMOVABLE BRIDGES. CHARLES C. BAKER, Pittsburgh, Pa., assignor of one-half to James Johnson Smith, Pittsburgh, Pa. Filed Feb. 9, 1923. Serial No. 617,989. 4 Claims. (Cl. 32—12.)



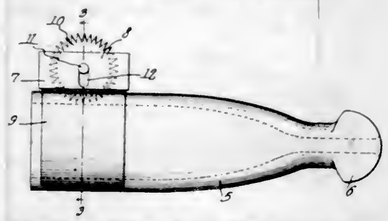
1. A removable denture comprising a saddle, an artificial tooth secured thereto, an elongated socket in said tooth the interior of which is free of obstructing parts throughout its entire length, said socket having an open slit at one side, a detachable clasp provided with a knob fitting in the socket, the width of the slit being at least as great as the minimum cross-sectional dimension of the knob, and the length of the socket being greater than the maximum cross-sectional dimension of the knob, whereby to permit both a rocking and a bodily movement between the clasp and socket.

1,473,662. TIE PRESS. ALFONSO A. BANKS, New York, N. Y. Filed Jan. 20, 1921. Serial No. 438,551. 4 Claims. (Cl. 100—57.)



1. A tie press comprising a body upon which a neck tie may be wound and an elastic means removably associated with said body for holding the tie thereon.

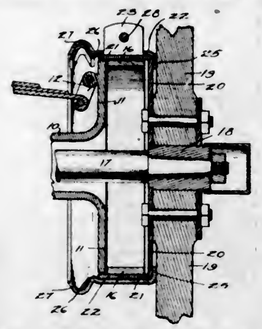
1,473,663. EJECTOR FOR CIGARETTE OR CIGAR HOLDERS. CHARLES L. BARTHOLOME, Terre Haute, Ind. Filed May 6, 1922, Serial No. 558,970. Renewed Sept. 29, 1923. 3 Claims. (Cl. 131—10.)



1. An ejecting device for use with a tubular cigarette or cigar holder provided with a longitudinal slot, said device comprising a frame secured to the tubular holder in proximity to said slot, and a rotatable ejector wheel carried by the frame and adapted to extend through the slot and engage with the cigarette or cigar.

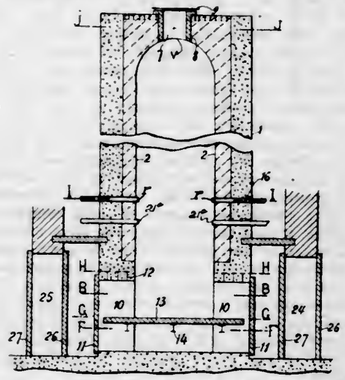
1,473,664. GREASE SHIELD FOR BRAKE DRUMS. WARD D. BEIGHTOL, Fort Dodge, Iowa. Filed Sept. 11, 1922. Serial No. 587,341. 5 Claims. (Cl. 184—106.)

2. In a device of the class described, an annular band adapted to fit the exterior of the rim of a brake drum, said band having inwardly extending annular members at either edge for forming an exterior chamber for the brake drum, an annular trough formed on one edge thereof, and designed to catch particles of grease expelled from the interior of the drum, said band and



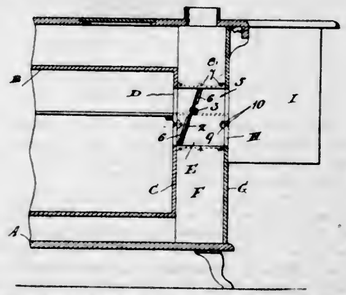
trough being in the form of a split ring, ears on the ends of the band having openings therein, and a bolt designed to extend through said opening for drawing the ends of the band together.

1,473,665. FURNACE. EDMOND BERTHELON, Ax-les-Thermes, France. Filed Dec. 31, 1919. Serial No. 348,710. 3 Claims. (Cl. 202—10.)



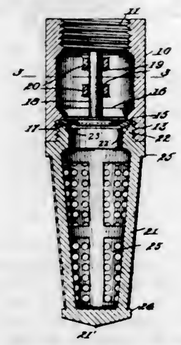
1. An oven of the class described having means to return thereto the gases originating therein, and means to regulate the gas pressure within the oven.

1,473,666. STOVE. ISAAC TOLL BLACK, Galt, Ontario, Canada. Filed Jan. 22, 1923. Serial No. 614,245. 1 Claim. (Cl. 126—31.)



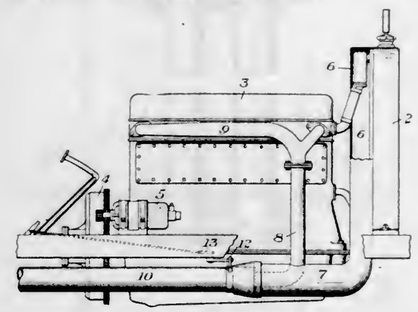
In combination a range embracing an oven having a port or opening formed in the rear wall thereof, and further embracing an outer wall spaced apart from the rear wall of said oven, and having a port or opening formed therein in alignment with the port or opening formed in the rear wall of said oven; a conduit or boxing vertically divided to form two separable parts, located in the space between said walls, and substantially of the same size as the ports or openings therein; a damper mounted within said conduit or boxing, and means whereby the component parts of said conduit or boxing are individually coupled to the rear wall of the oven and the outer wall of the stove.

1,473,667. COMBINED FOOT VALVE AND STRAINER. ARTHUR W. BURKS, Decatur, Ill. Filed Mar. 14, 1922. Serial No. 543,560. 7 Claims. (Cl. 103—220.)



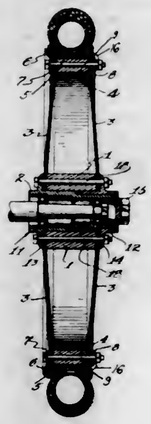
1. A combined foot valve and strainer comprising a tubular valve casing, a shoulder in said casing, a removable valve seat abutting said shoulder, a valve within said casing, a cross arm within said casing provided with an opening therein, a valve stem extending through said opening, the cross arm serving as a guide for said stem and valve, internal threading adjacent one end of said casing, a strainer frame provided with a plurality of openings and having a threaded portion extending into said valve casing cooperating with the threading within said casing and serving both to maintain the valve seat against said shoulder and to hold the strainer in association with said casing, and a foraminous screening element on said frame.

1,473,668. MOTOR-COOLING SYSTEM. CLARENCE P. BYRNES, Sewickley, Pa. Filed June 3, 1918. Serial No. 237,878. 4 Claims. (Cl. 123—174.)



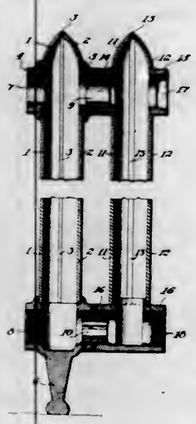
1. In a cooling system for motor vehicles, a radiator connected with the water-cooling system of a motor, a motor exhaust injector system arranged to draw air through the radiator, and means for varying the amount of air drawn from the radiator by the injector system without obstructing or varying the exhaust passage for the gases.

1,473,669. PLY-WOOD WHEEL. WILLIAM L. CARNEGIE. Detroit, Mich. Filed Oct. 27, 1919. Serial No. 333,542. 2 Claims. (Cl. 301—63.)



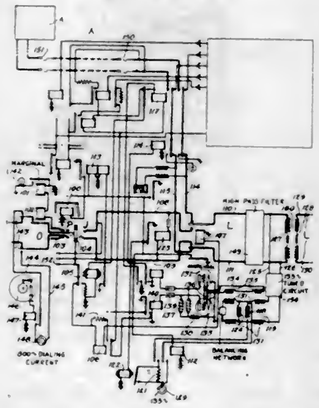
2. In a wheel, a pair of multiple ply veneer wood disks apertured at the center, a centrally apertured wooden core between the disks at the center with the aperture thereof registering with the apertures of the disks, an annular rim member spacing the disks at the periphery and a hub comprising two telescoping flanged parts fitting the core with the flanges on the exterior of the disks, and bolts extending through the flanges, core and disk binding the parts together as a unit, said disks being tapered in form in cross section from the center to the periphery.

1,473,670. METHOD OF FORMING RADIATORS. DAVID NELSON CROSTHWAIT, Sr., Kansas City, Mo., assignor to David Nelson Crosthwait, Jr., Marshalltown, Iowa. Filed Nov. 17, 1921. Serial No. 515,824. 3 Claims. (Cl. 22—206.)



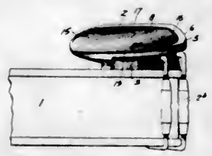
1. The method of constructing a radiator section of stamped metal and cast metal, which includes stamping two complementary walls of the section from sheet metal, forming a mold and a core for the radiator section, assembling the stamped metal walls and core, and placing them in the mold, and then pouring in the molten metal.

1,473,671. TELEPHONE-EXCHANGE SYSTEM. JOHN DAVIDSON, Jr., Trenton, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 18, 1920. Serial No. 431,718. 19 Claims. (Cl. 179—27.)



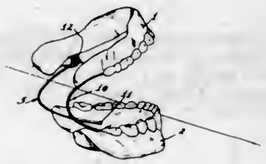
1. In a telephone system, an originating exchange, a distant exchange, a subscriber's line terminating in said distant exchange, a plurality of trunk lines extending between said exchanges, automatic switching mechanisms at said distant exchange in which said trunk lines terminate for extending connections from said trunk lines to said subscriber's line, an impulse repeater at said distant exchange common to said trunk lines, means for associating said repeater with one of said trunk lines, impulse transmitting means at said originating exchange for transmitting impulses of one frequency over any one of said trunk lines to said repeater for controlling the switching mechanism in which said trunk line terminates, means at said originating exchange for transmitting an impulse of a different frequency over any one of said trunk lines for controlling the association of said repeater with a particular trunk line, means at said distant exchange operative upon the association of said repeater with said trunk line for transmitting an impulse of said latter frequency over said trunk line and means at said originating exchange responsive to said latter impulse for producing a dialing signal.

1,473,672. VIOLIN CHIN REST. GEORGE W. DITTMANN, Cincinnati, Ohio. Filed Jan. 4, 1921. Serial No. 434,997. 1 Claim. (Cl. 84—279.)



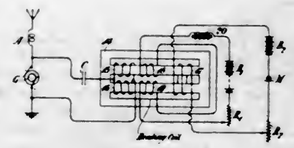
A violin chin rest, comprising a body member having a chin depression in the upper face thereof, the depression surface inclining downwardly from the rear and inner edges to the opposite forward edges forming an elevated margin at the rear and inner edges, and a rib extending from the under side of said body member, having a rear edge curved to the outline of the violin at the point of attachment to the violin, and tapering from its rear end forwardly, for downwardly inclining the body member from the rear end forwardly, whereby the long axis of the depression forms with the long axis of the violin an outwardly facing obtuse angle when the rest is attached to the violin.

1,473,673. HOLDER FOR ARTIFICIAL SETS OF TEETH. EDWARD JACOB ELSAS, Scott City, Kans. Filed June 17, 1922. Serial No. 569,033. 5 Claims. (Cl. 32—4.)



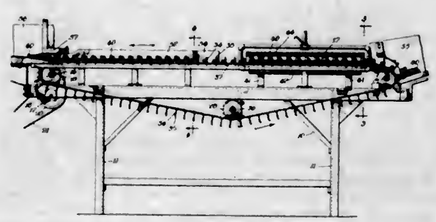
1. The combination with upper and lower plates or sets of artificial teeth; of connectors resiliently and flexibly connecting said plates and located on the inner faces of said plates.

1,473,674. MEANS FOR AND METHOD OF MODULATION. LLOYD ESPENSCHIED, Queens, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 16, 1920. Serial No. 431,191. 10 Claims. (Cl. 179—171.)



1. In a modulating system comprising a carrier source and an inductance, the method of modulating a carrier frequency in accordance with signals which consists in subjecting the energy of the carrier source to the action of said inductance, maintaining the temperature of said inductance in the neighborhood of the recalescence point, and varying the permeability of said inductance in accordance with a signal.

1,473,675. GLAZING MACHINE. HANS N. HALVERSEN, Vineland, N. J., assignor to Kimble Glass Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 13, 1919. Serial No. 344,617. 10 Claims. (Cl. 49—58.)



10. In a glazing appliance of the character described, the combination of two heating means positioned to successively heat the opposite ends of the bodies treated, a guide-plate for each of said heating means, a support having portions sloping in opposite directions toward said guide-plates, and a pair of parallel endless conveyor chains equipped with forwardly-bent fingers to engage and roll the inclined bodies to be glazed along said support first with one end against one guide-plate and the opposite end subject to the action of the corresponding heating means, and subsequently with the glazed end against the second guide-plate and the other end in a position to subjemt it to the action of the second heating means, said support and bent fingers maintaining in each instance the end being glazed in advance of the end bearing against the guide-plate substantially as described.

1,473,676. HUMIDIFIER. CHARLES E. HENDRIX, Jefferson City, Mo. Filed Feb. 13, 1922. Serial No. 536,051. 8 Claims. (Cl. 126—113.)



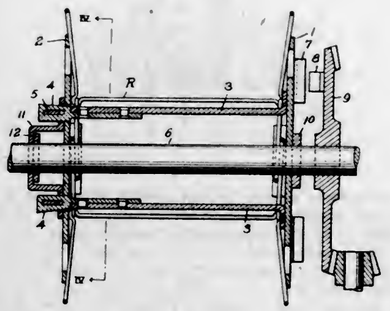
1. A humidifier comprising an evaporation receptacle, said evaporation receptacle being adapted to contain liquid, buoyant means supported by said liquid, and absorbent means within said receptacle, said absorbent means being supported by said buoyant means and being in contact with the liquid within said receptacle whereby said liquid is caused to travel along said absorbent means.

1,473,677. TURNBUCKLE LOCK. RICHARD A. HOFFMANN, Rosebank, N. Y. Filed Aug. 14, 1920. Serial No. 403,583. 11 Claims. (Cl. 287—60.)



1. The combination with a turnbuckle, consisting of a threaded stem, a connecting element into which said stem is screwed, and a turnbuckle lock, comprising a male and a female member attached to the stem and the connecting element respectively, and a coil spring seated on said element, adapted to engage by its resilience the male with the female member and to lock the components of said turnbuckle by such engagement; of means to secure said spring in a cocked position while the male and female members are disengaged.

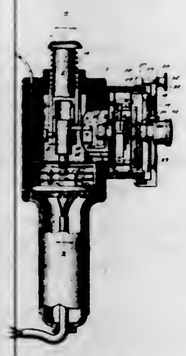
1,473,678. REEL CARRIER. JOHN A. HOLMQUIST, Woodlawn, Pa. Filed Apr. 24, 1923. Serial No. 634,337. 2 Claims. (Cl. 242—85.)



1. A carrier for a reel consisting of opposite heads centrally perforate, opposite parallel plates constituting the carrier body, secured at one end to one of said heads and at the other end terminating in slotted spindles, the other head being further perforate for the

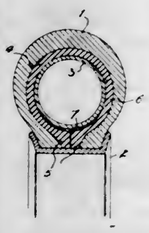
extension through of the spindles upon said plates, and a wedge block adapted to enter the slots in said spindles and secure the removable head to place when applied, the fixed head being adapted externally for engagement by rotating means, and the removable head being provided externally with an end thrust bearing surface disposed at a greater distance from the general surface of the head than the distance to which the spindles after assembly protrude.

1,473,679. TIME SWITCH. JOHN G. H. LIEBEL and EDWIN S. FLARSHEIM, Cincinnati, Ohio. Filed Nov. 26, 1921. Serial No. 518,049. 7 Claims. (Cl. 200—39.)



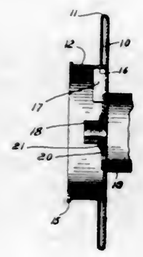
4. In a device of the class described, a casing, a rewind time-setting clock mechanism mounted within said casing and having a setting indicator finger, a dial for said finger, stop means for said finger swivelled about the axis of said finger, and means for clamping said stop means against motion.

1,473,680. TIRE ATTACHMENT. CHARLES C. MARBLE, Bradentown, Fla. Filed Aug. 12, 1922. Serial No. 581,422. 1 Claim. (Cl. 152—24.)



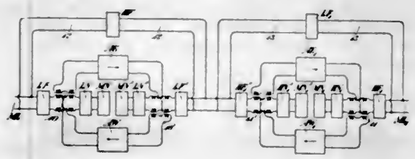
A blow-out section for tire casings comprising a vulcanized rubber member substantially tubular in cross section tapered longitudinally from its inner center to its ends, said member having its edges thickened to provide beads whose confronting faces are straight and whose outer faces are curved inwardly, and said member having one of its sides provided with a flap designed to rest on the opposite side of the member when the device is arranged in a tire casing and receives a pneumatic tube therein, and said member when mounted with the casing on the tire receiving rim of a wheel designed to have the flat confronting faces of its beads brought into contact with each other by the pressure of the inner surfaces of the ends of the casing against the rounded outer surfaces of the beads, and the outer edges of the beads also designed to rest directly on the tire carrying rim of the wheels.

1,473,681. BEAM HEAD. FRANK MOSSBERG, Attleboro, Mass., assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass., a Corporation of Massachusetts. Filed Nov. 1, 1921. Serial No. 512,071. 5 Claims. (Cl. 242—123.)



3. A method of forming a loom beam-head or the like of sheet metal, which consists in providing a main head-plate, punching a hole through its center, attaching a hub about said center hole, forming a bar or strip of steel into a ring of a diameter less than that of the head-plate, welding together the ends thereof, welding the edge of the ring to the face of the plate concentric to the center hole, welding a radial driving lug to the face of the main plate at a point intermediate the inner surface of the ring and said hub.

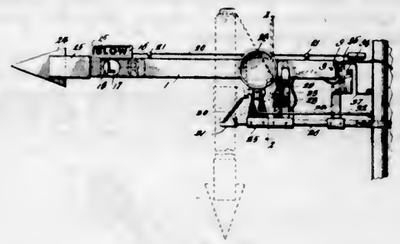
1,473,682. REPEATER APPARATUS FOR CARRIER SYSTEMS. HAROLD S. OSBORNE, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 24, 1919. Serial No. 313,082. 9 Claims. (Cl. 179—171.)



1. In a signaling system, a transmission line adapted to transmit currents of different frequencies, a plurality of amplifying repeaters in said line in series, means to permit only frequencies within one range to be impressed upon one of said repeaters, and means to permit only frequencies within another range to be impressed upon another of said repeaters.

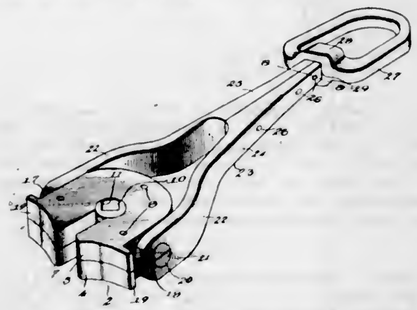
1,473,683. AUTOMOBILE SIGNAL. DAVID F. PETERS, St. Peter, Minn. Filed Oct. 21, 1922. Serial No. 596,041. 5 Claims. (Cl. 116—54.)

1. In combination, a bracket having a pair of rest members associated herewith, a signal arm fulcrumed on the bracket, and engageable with one rest member when in a vertical position and with the other rest member when in a horizontal position, a buffer device associated with the rest member for engaging the arm as it is moved to a horizontal position, a spring for normally holding



the arm in a vertical position, means for fulcruming the arm, and a catch for holding the arm in a horizontal position.

1,473,684. SUCKER-ROD ELEVATOR AND WRENCH. BASIL ROSE, Louisa, Ky. Filed Aug. 11, 1922. Serial No. 581,220. 3 Claims. (Cl. 294—91.)

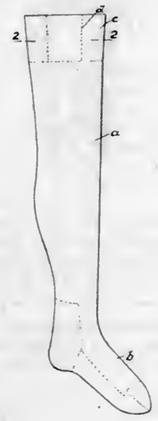


1. A device of the character described comprising a rod engaging member consisting of a substantially cylindrical body having reduced end portions and being provided with a radial slot extending therein from an outer edge thereof, said slot being adapted to receive a non-circular portion of a sucker rod, a carrying block having a compartment therein in which the body of the rod engaging member is rotatably disposed, means carried by said carrying block and extending within the compartment for engaging the body of the rod engaging member to limit the rotation of the latter, said carrying block having a radial passage extending through the walls thereof and adapted to register with the slot in the rod engaging member when the latter is in a certain position in the compartment, and locking means carried by the carrying block and operable when in locking position to hold the rod engaging member in such position in respect to the carrying block that the slot of the former is out of registration with the passage through the walls of the latter.

1,473,685. METHOD FOR PRODUCING EXPLOSIVES. WILLIAM B. STURGIS, Chicago, Ill., assignor to General Explosives Company, Chicago, Ill., a Corporation of Delaware. Original application filed July 23, 1919, Serial No. 312,671. Divided and this application filed Dec. 31, 1921. Serial No. 526,252. 13 Claims. (Cl. 52—22.)

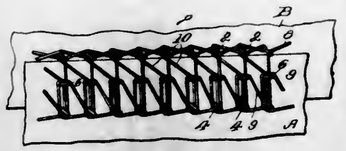
1. A method of producing explosives which consists in taking two separate quantities of glycerin and monochlorhydrin in one of which is included a carbohydrate which is soluble therein, nitrating separately the two quantities, and mixing the two nitrated products together.

1,473,686. HOSIERY. JAMES J. SULLIVAN, Philadelphia, Pa., assignor to William Brown Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 30, 1922. Serial No. 597,818. 3 Claims. (Cl. 66—4.)



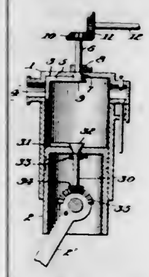
1. A stocking having a foot and leg portion and a welt, the welt being formed of yarn and provided with a block of small area relative to the welt and so located as to receive a garter attachment, formed by plaiting an additional thread of yarn, of finer count, on the welt.

1,473,687. SEAM FOR SEWED ARTICLES. SAMUEL GEORGE TATE, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 19, 1921. Serial No. 462,545. 2 Claims. (Cl. 112—262.)



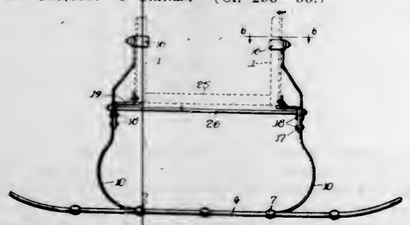
1. A covering seam for sewed articles comprising three parallel rows of needle thread loops, a cross thread joining certain of said loops on one face of the fabric and a looper thread joining said loops on the other face of the fabric, said looper thread being formed into loops, each of which extends through a needle thread loop in each row, the bight of the looper thread loop being enlarged and extending about the needle thread loops in two of the rows entered by the next formed looper thread loop, and one strand of the looper thread loop being extended laterally and about the needle thread loop in the remaining row.

1,473,688. MECHANISM FOR REMOVING CARBON FROM CYLINDERS OF INTERNAL-COMBUSTION ENGINES. ALBERT G. THOMAS, Lynchburg, Va. Filed Aug. 1, 1923. Serial No. 655,130. 8 Claims. (Cl. 123—198.)



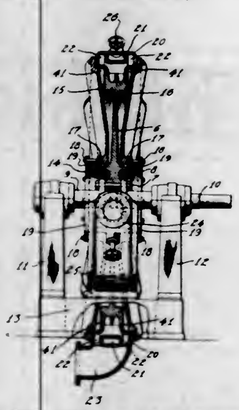
1. The combination with an engine cylinder, of a rotary carbon-removing device for cleaning the walls of the combustion chamber, and means for operating said mechanism from a moving part of the engine.

1,473,689. AUTOMOBILE BUMPER. WILLIAM ERASTUS WILLIAMS, Wilmette, Ill. Filed Feb. 8, 1922. Serial No. 535,053. 6 Claims. (Cl. 293—55.)



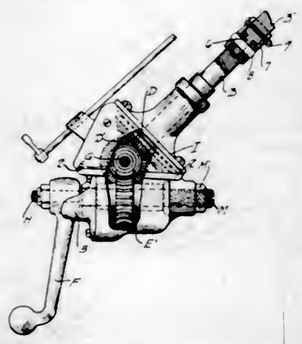
4. The combination with an automobile frame, of laterally curved spring arms each projecting beyond the end of the frame and secured at its own end to the frame, a second bracket at the frame's end, and a rod drawing the arms and corresponding second brackets into rigid engagement with the frame's sides.

1,473,690. SERIAL-FLOW TURBINE. OSCAR H. WOLNER, Elcor, Minn. Filed May 31, 1922. Serial No. 564,758. 8 Claims. (Cl. 253—54.)



1. In a serial flow turbine, a bladed stator having a peripheral steam channel and a peripheral exhaust channel at each side thereof, a bladed rotor, nozzles admitting steam from said steam channel to the rotor blades, means in the plane of the wheel to permit expansion of the motive fluid a plurality of times between successive channels, and means to permit the steam to exhaust laterally and simultaneously into both exhaust channels at points behind the respective nozzles.

1,473,691. STEERING MECHANISM FOR VEHICLES. CLIFFORD H. YOUNG, St. Louis, Mo. Filed Jan. 2, 1923. Serial No. 610,221. 8 Claims. (Cl. 74—79.)



1. A steering mechanism for vehicles, comprising an inclined steering shaft, a horizontally-disposed rock shaft arranged longitudinally of the vehicle and provided with a rock arm that is adapted to be connected to a drag link, and means for transmitting movement from said steering shaft to said rock arm comprising a pair of beveled pinions and a worm and worm gear.

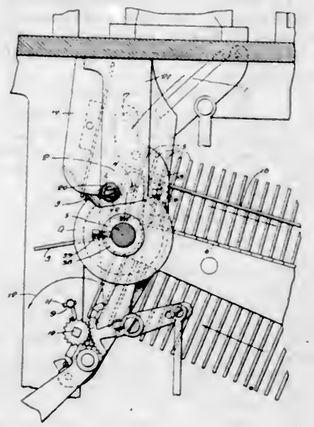
1,473,692. ELEVATOR BUFFER. WILLARD S. ATKINSON, Ashland, N. J., assignor to Atlantic Elevator Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 29, 1921. Serial No. 465,555. 6 Claims. (Cl. 188—96.)



1. Elevator buffer structure comprising a cylinder, a piston movable therein, a rod secured to said piston and extending to the exterior of said cylinder in position to be engaged by an elevator car, said piston having a passage in its cylinder-engaging surface affording communication between opposite sides of the piston, a spring normally holding the piston in advanced position, a

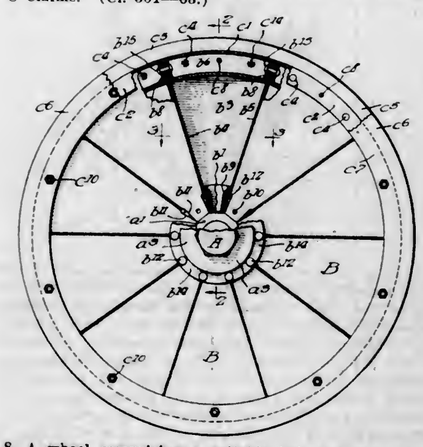
throttle bar secured upon the wall of said cylinder and extending through said passage for varying the cross section thereof with movement of said piston, and screws extending inwardly through said cylinder wall to hold the bar in position.

1,473,693. END-FLAP-FOLDING MECHANISM FOR ENVELOPE-MAKING MACHINES. ADDISON E. AUGUSTINE, Hackensack, N. J., assignor to Chester Machine Co., Inc., New York, N. Y., a Corporation of New York. Filed July 20, 1920. Serial No. 397,756. 12 Claims. (Cl. 93—67.)



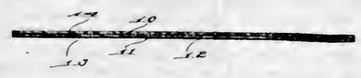
1. In an envelope-making machine, the combination with a movable carrier for receiving the newly gummed envelopes, means to move said carrier, and means for delivering envelopes into said carrier, of means movable to fold the end flaps of the envelopes as the envelopes are delivered into said carrier, and means positively connected with the carrier operating means for effecting operation of the flap folding means coincident with the movements of the carrier.

1,473,694. METAL WHEEL. GERALD G. BARRY, Chicago, Ill. Filed Aug. 15, 1921. Serial No. 492,348. 8 Claims. (Cl. 301—63.)



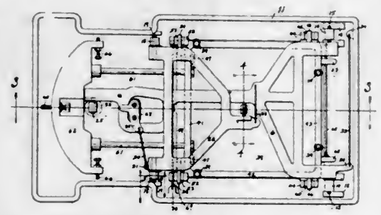
8. A wheel comprising a suitable hub and tire carrying rim and between said hub and rim a supporting structure consisting of a plurality of metal units, each unit being formed in a single piece so as to provide integrally the two sector shaped spaced apart walls b^2 and b^3 and the connecting walls b^4 and b^5, and leaving in each the open end b^6, and a reinforcing felly member consisting of the series of unit closure sections arranged in abutting relation, substantially as set forth.

1,473,695. INNERSOLE. MAX BROWN, Boston, Mass. Filed June 10, 1921. Serial No. 476,465. 3 Claims. (Cl. 159—50.)



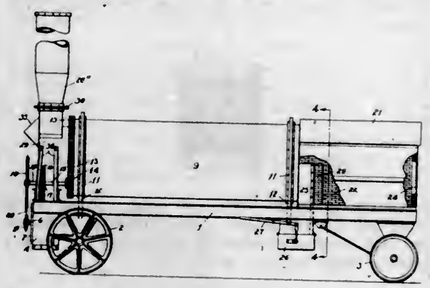
3. An innersole comprising a plurality of layers of felt loaded with waterproof cementitious binder adhesively secured with an intermediate layer of strength giving burlap, and with protective layers applied to the outer surfaces of said felt layers.

1,473,696. LEVER SYSTEM FOR SCALES. ADOLPH A. CAILLE, Detroit, Mich. Filed Sept. 23, 1921. Serial No. 502,674. 10 Claims. (Cl. 265—71.)



1. In a lever system for weighing scales, the combination of a base and a main and a secondary lever suspended therein and each having load-receiving pivots, a platform frame embodying a pair of pedestals rigid therewith adapted to be mounted on the load-receiving pivots of the main lever, a pair of pedestals adjustable on the platform frame mounted on the load-receiving pivots of the secondary lever, and a platform mounted on the platform frame.

1,473,697. PORTABLE DRIER. FREDERICK H. CUMMER, Great Neck, N. Y. Filed May 16, 1921. Serial No. 469,796. 2 Claims. (Cl. 34—6.)



2. A drier for road material, comprising a frame and wheels therefor, a rotating cylinder inclined downwardly on said frame toward one end thereof, a furnace spaced from the lower end of said cylinder to provide a material discharge space between said cylinder and furnace, means at the upper end of said cylinder whereby material may be introduced thereinto, and a transverse wall lying between said furnace and material discharge space to prevent the escape of fire from said furnace.

1,473,698. ROTARY CUTTER. SAVERIO DI FELIPPO, Trenton, N. J. Filed Apr. 19, 1923. Serial No. 633,304. 1 Claim. (Cl. 107—51.)



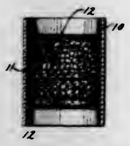
The combination of a unitary spindle having reduced extensions at each end providing handles, one of said handles being separated therefrom by a shouldered collar and the other screw threaded to receive a lock nut, and a sleeve snugly fitting the aforesaid spindle, said sleeve having equally spaced peripheral cutting ribs and being secured in place between the shouldered collar and lock nut.

1,473,699. CASE HANGER. WILLIAM C. FRASER, Buffalo, N. Y. Filed Aug. 4, 1922. Serial No. 579,642. 5 Claims. (Cl. 204—5.)



1. A case hanger comprising a body formed with a recess, a clamping member formed with a recess which registers with the recess of the body, means for securing the clamping member to the body, and an insulated case hook detachably disposed within the recess of the body and the clamping member.

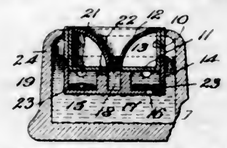
1,473,700. INK CARTRIDGE. BYRON B. GOLDSMITH, New York, N. Y. Filed July 22, 1921. Serial No. 486,902. Renewed Jan. 20, 1923. 7 Claims. (Cl. 134—38.)



1. An ink cartridge having an inlet and an outlet opening and an assemblage of ink-producing bodies between said openings grouped in contact so as to leave a percolating space between said bodies.

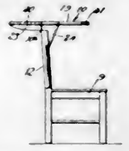
1,473,701. INKSTAND FOR SOLUBLE INK. BYRON B. GOLDSMITH, New York, N. Y. Continuation of application filed June 28, 1915, Serial No. 330,666. This application filed June 14, 1922. Serial No. 568,290. 5 Claims. (Cl. 120—57.)

1. In apparatus for producing ink progressively as it is consumed, a casing having a dipping space accessible from above, and having a passage communicating with the lower part of said dipping space, said passage having an external opening for admission of water, said opening being below the level of the top of said dipping space; in combination with one or more ink-producing bodies



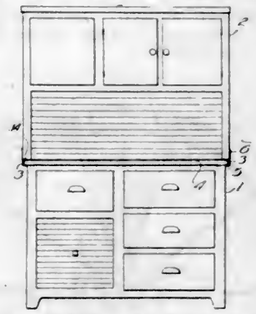
placed in said passage, all arranged substantially as described, whereby when the casing is immersed all the water that finds its level in said dipping space is caused to move through said passage and past said ink-producing bodies.

1,473,702. COMBINED CHAIR AND DISPLAY RACK. ADA L. GUTHRIDGE and FRANK G. GUTHRIDGE, Chicago, Ill.; said Frank G. Guthridge assignor to said Ada L. Guthridge. Filed Mar. 16, 1922. Serial No. 544,207. 4 Claims. (Cl. 155—43.)



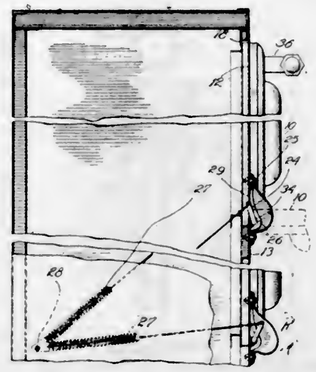
1. In a display chair, in combination, a chair base, a pair of supporting members extending up from said base and having longitudinal grooves, a serrated member in each groove, a sliding strip mounted between said members with its ends in engagement with said grooves, link means connecting said back and said strip, and spring pressed means carried by said strip and resiliently engaging said serrated members to adjustably retain said back in any one of a plurality of angular positions.

1,473,703. KITCHEN CABINET. RUDOLPH HOFFMAN, Kankakee, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a Corporation of New York. Filed July 23, 1920. Serial No. 398,433. 2 Claims. (Cl. 45—16.)



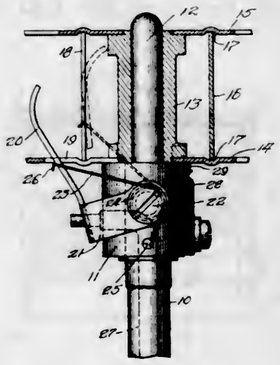
1. In a kitchen cabinet, the combination with a base section and a top section, of means for supporting the top section upon the base section including an angular supporting bracket at each side of the cabinet having a flat horizontal portion detachably secured upon the top wall of the lower section, and a flat upright portion perpendicular to the horizontal portion and permanently secured to the outer side wall of the upper section, the horizontal portion being adapted at its forward end to interengage with the top wall of the base section so as to resist backward tilting movement of the top section while the rear end of the bracket is secured to the rear wall of the base section.

1,473,704. COOK STOVE. RUDOLPH HOFFMAN, Kankakee, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a Corporation of New York. Filed Oct. 6, 1920. Serial No. 415,177. 12 Claims. (Cl. 126—194.)



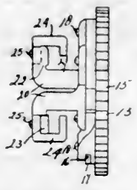
1. In a cook stove or the like, the combination with a door frame, of a door constructed of sheet metal and having a frame with a pair of relatively flat lateral projections one at each side near the lower edge of the frame and rigid therewith, means at opposite sides of the stove frame forming bearings, and cylindrical members on the outer ends of said projections forming journals adapted to engage in said bearings.

1,473,705. CONTROL MECHANISM FOR TYPEWRITERS. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed Feb. 28, 1920. Serial No. 361,923. 1 Claim. (Cl. 197—160.)



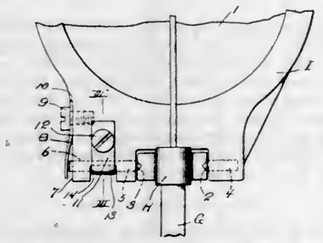
The combination with a ribbon spool shaft having an enlarged portion thereon arranged to form a spool-supporting shoulder, a bracket pivoted on said enlarged portion and having a finger carried thereby and extending into position to enter a slot in a spool on said shaft, a spring wire coiled about the pivot for said bracket and bent to engage said finger to move said finger inwardly toward said shaft into position to permit a spool to be placed upon said shaft, said spring being arranged to be held out of engagement with said finger by a spool on said shaft, and means for retaining a spool in position upon said shaft.

1,473,706. SPLIT GEAR. JAMES C. JONES and ADOLF C. KREUTZER, Philadelphia, Pa. Original application filed Feb. 24, 1922, Serial No. 538,869. Divided and this application filed Jan. 31, 1923. Serial No. 616,005. 2 Claims. (Cl. 74—28.)



1. A split driving gear comprising two segments or sections having interengaging elements, means for fastening said elements together, an arm carried by each segment, each arm consisting of a shank, a right angled extension and an outwardly projecting lug at the side of said extension, said arms adapted to partially surround the arms of a spider and clamps provided with means for fastening them to the lugs whereby the gear is detachably secured to said spider.

1,473,707. STYLUS-BAR MOUNTING. IGNATZ LAUTER and FREDRICK G. HOPPE, New York, N. Y. Filed Jan. 20, 1922. Serial No. 530,716. 6 Claims. (Cl. 274—35.)



3. A stylus arm suspension comprising a pivot element, a support therefor comprising a member having an opening therein within which the pivot element is loosely received, means exerting a resilient pressure against said pivot element tending to move the pivot element in a direction longitudinally of its length and against the stylus arm, and other means exerting a resilient pressure laterally against the pivot element to hold the pivot element pressed against the wall of said opening.

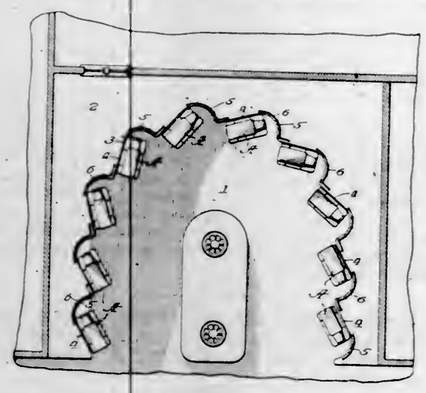
1,473,708. REED ARTICLE AND METHOD OF PRODUCING THE SAME. MARSHALL B. LLOYD, Menominee, Mich., assignor, by mesne assignments, to Levi H. Greenwood and George A. Keyworth, both of Gardner, Mass., and William E. Holman, Leominster, Mass., trustees. Filed July 23, 1921. Serial No. 487,205. 3 Claims. (Cl. 147—48.)



1. The method of producing reed articles that consists in applying metal binder strips to edge portions of the fabric, applying the fabric to a frame and in part con-

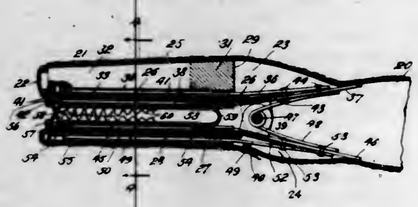
forming it thereto, and in part shaping the metallically bound edge portion away from the frame, and thereby supporting said nonframe supported portions through the medium of said metal binder strips.

1,473,709. LOADING STAGE FOR DEPOTS AND THE LIKE. SPENCER OTIS, Barrington, Ill. Filed July 2, 1923. Serial No. 649,184. 8 Claims. (Cl. 104—29.)



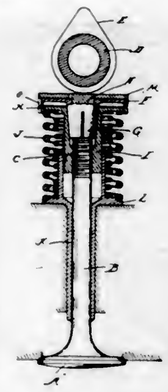
3. A loading stage, comprising a driveway and a platform contiguous thereto, having its defining margin constructed with a series of reentrant portions providing bays into and out of which vehicles may drive by continuing forward movement, and with projections intervening between and defining the limits of the bays; the departure side of a bay being shaped to enforce, in a departing vehicle, a direction past the rear end of a vehicle occupying a bay in advance thereof.

1,473,710. FASTENER FOR FUR GARMENTS. GEORGE SACHNOFF. Brooklyn, N. Y. Filed Sept. 30, 1921. Serial No. 504,501. 10 Claims. (Cl. 2—66.)



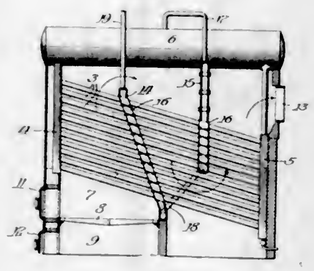
10. A clamp fastener of animal-head type for fur garments comprising a main body spring clamp having opposite pivoted together members affording clamping jaws and handles therefor, a lining of mouth formation, between said jaws, a cap over the upper jaw having a depending edge flange, a cap under and enclosing the lower jaw and having an upwardly extending edge flange, said lining having an upwardly extending edge flange secured to the flange of said upper cap and a downwardly extending edge flange secured to the flange of said lower cap, and said caps being secured to said clamp members, and auxiliary springs secured to said main clamping jaws to enter the upper and lower head formations respectively and bind the same against said caps respectively, the upper main jaw being between its cap and the mouth lining and the lower main jaw being between its cap and the mouth lining.

1,473,711. POPPET VALVE. EARL H. SHERBONDY, Detroit, Mich., assignor to Sidney D. Waldon, Detroit, Mich. Filed Apr. 9, 1920. Serial No. 372,641. 4 Claims. (Cl. 123—90.)



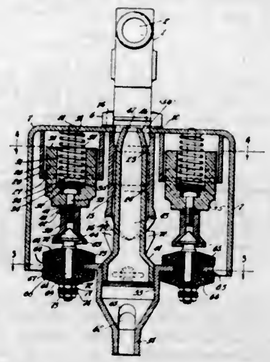
1. The combination with a poppet valve and its actuating stem, of a head member having a hub threaded upon said stem, said hub being slitted to permit of radial contraction, a second head member below the member aforesaid and provided with a relatively long hub having a portion surrounding the first-mentioned hub and adapted to clamp the same upon said stem and having a portion threaded upon said stem below the first-mentioned hub, the second member and its hub being adjustable toward the valve to permit adjustment of the first-mentioned member and its hub in either direction upon the stem, said second member and hub being also adjustable to clamp the first-mentioned hub in adjusted position on said stem.

1,473,712. WATER-TUBE BOILER. JOHN M. SULLIVAN, Culver, Ind. Filed Aug. 26, 1920. Serial No. 406,113. 3 Claims. (Cl. 122—285.)



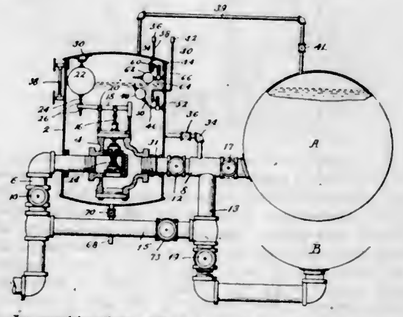
1. In a water tube boiler, the combination of a steam drum, a plurality of water tubes, a fire box beneath the forward ends of said tubes, a forward hollow baffle extending upwardly adjacent to said fire box, a rear hollow baffle extending downwardly from said drum in spaced relation to said forward baffle, thimbles disposed in said baffles through which said water tubes extend, means connecting the lower ends of said baffles together, a pipe for supplying fluid to the upper end of said rear baffle, so that said fluid travels downwardly in said rear baffle, thence through said connecting means to the lower end of said forward baffle and thence upwardly in said forward baffle and a pipe for delivering said fluid from said upper end of said forward baffle.

1,473,713. LAMP HANGER. ALLISON J. THOMPSON, Cleveland, Ohio. Filed Oct. 31, 1919. Serial No. 334,897. 9 Claims. (Cl. 240—63.)



1. In a lamp hanger, a main hanger member, a lamp hanger member, guiding mechanism for said members, latching mechanism, fixed contacts carried by the lamp hanger member, individual floating yielding contact structures carried by the main hanger member and co-operating with the fixed contacts of the lamp hanger member, each of said structures comprising a contact housing, a contact insulator having universal movement therein, means for forcing said insulator yieldingly downwardly, and a contact carried by said insulator.

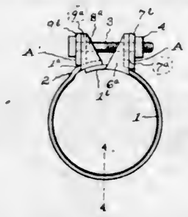
1,473,714. APPARATUS FOR CONTROLLING THE WATER LEVEL IN BOILERS. FRANK E. WEIDNER, Maryville, Mo. Filed Apr. 18, 1921. Serial No. 462,196. 3 Claims. (Cl. 137—101.)



1. In combination with a boiler, a reservoir positioned to hold water on a level with that in the boiler, a valve located in said reservoir, a pipe leading from a source of water supply to the inlet side of said valve, a discharge pipe leading from the outlet side of the valve directly to the boiler, means for supplying the reservoir with a portion of the water directly from said discharge pipe, and means controlled by the level of the water in the reservoir for actuating the valve, to the end that the water in the boiler and the reservoir may be maintained at, or approximately at, a predetermined level.

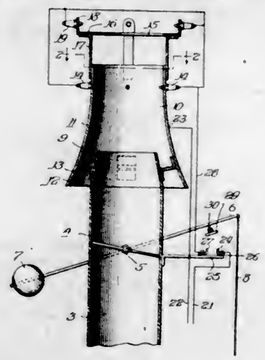
1,473,715. HOSE CLAMP. HARRY G. WESSEL, Lakewood, Ohio. Filed Jan. 10, 1923. Serial No. 611,708. 4 Claims. (Cl. 24—19.)

1. A clamping band of the character described formed from a sheet metal blank and provided at opposite ends thereof with pairs of outstanding webs and clamping plates carried by edge portions of the webs and extending transversely across the band, the plates of each pair



fitting against each other in a superposed relation to give a double thickness of material, in combination with tightening means connecting the clamping plates.

1,473,716. GAS BLEEDER. FREDERICK H. WILLCOX, Chicago, Ill., assignor to Freyn, Brassert & Company, Chicago, Ill., a Corporation of Maine. Filed May 16, 1921. Serial No. 470,213. 7 Claims. (Cl. 158—99.)



7. In combination with a bleeder valve of a gas system, a screen located in the path of the gas discharged from the bleeder valve, and means beyond the screen adapted to ignite gas passing therethrough, said means comprising spark gaps in an electrical circuit normally broken, and adapted to be closed by the operation of the bleeder valve.

1,473,717. FINGER RING. NORMAN EVANS ATKINSON, Vancouver, British Columbia, Canada. Filed Apr. 17, 1922. Serial No. 553,423. 1 Claim. (Cl. 132—73.)

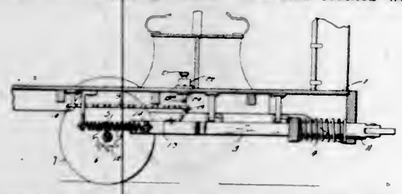


A ring shaped body having one of its lateral margins notched to provide a cutting edge lying inwardly of said margin, and a cover plate for the notch slidable on the outer surface of the ring and provided with grooved portions accommodating the edges of the ring therein.

1,473,718. SAFETY DEVICE FOR STREET-CAR TRAILERS. JOHN SPENCER BARNETTE, Jr., Broughton, Pa. Filed Sept. 2, 1921. Serial No. 498,055. 5 Claims. (Cl. 188—140.)

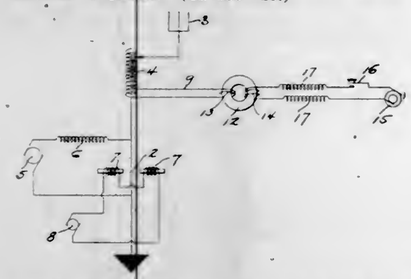
3. Safety means for preventing backward movement of a trailer when relieved of the propelling force, the same comprising a spring actuated brake member, a toothed

wheel fast with the axle of the trailer to rotate therewith and means cooperating with said brake member and brought into engaging contact with said toothed wheel



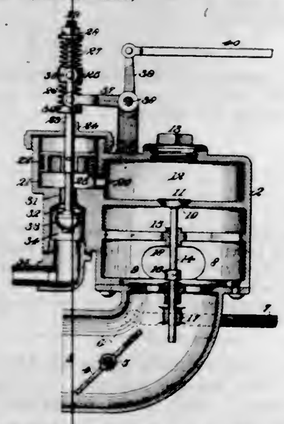
whereby to further apply the brake member in the event of the trailer tending to move backward after the brake member has been initially applied.

1,473,719. RADIOTELEGRAPHY. RALPH R. BEAL, Palo Alto, Calif., assignor to Augustus Taylor, San Francisco, Calif. Filed Feb. 19, 1920. Serial No. 360,000. 5 Claims. (Cl. 250—19.)



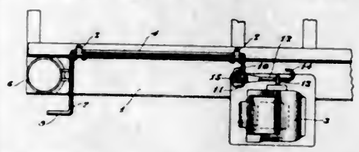
1. In a radio transmission system, a source of oscillations, a transmitting circuit connected to the source, a magnetic core, means connected to the transmitting circuit for impressing on said core a flux in accordance with the current supplied to the transmitting circuit, and means for substantially varying the core losses in the core, whereby signaling may be accomplished, comprising means for impressing on said core an audio frequency flux.

1,473,720. CARBURETOR. JEAN B. DUTOUR, San Francisco, Calif. Filed Aug. 14, 1920. Serial No. 403,483. 5 Claims. (Cl. 48—180.)



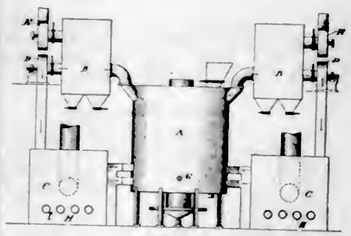
1. A carburetor for mixing a combustible gas from a supply under pressure and air at about atmospheric pressure, comprising a casing having a mixing chamber with a suction outlet and an air inlet, a gas chamber, differential valvular means for stepping down the pressure of said combustible gas and admitting it to said gas chamber, and automatic, combined differential valves for admitting air, and gas from the gas chamber, to the mixing chamber.

1,473,721. RAILWAY-CAR-COUPLER UNCOUPLING DEVICE. IRA EVERETT, Sayre, Pa. Filed Dec. 23, 1920. Serial No. 432,718. 3 Claims. (Cl. 213—163.)



3. A railway car coupler uncoupling device comprising a horizontally rotatable rod having an operating handle at one end and a crank having a downwardly bent portion terminating in an eye at the other end, and a pin lever adapted to slidably engage the locking pin at one end and having the other end adapted to operatively connect it to the eye of said rod so that the rotation of said rod lifts said locking pin at all times.

1,473,722. FURNACING PROCESS. CARL S. FOGH, Philadelphia, Pa., assignor to Ore Roasting Development Company, Philadelphia, Pa., a Corporation of Delaware. Filed Feb. 8, 1919. Serial No. 275,777. 3 Claims. (Cl. 75—17.)

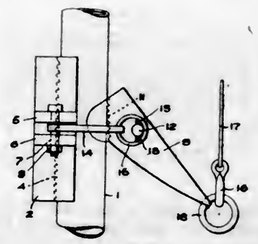


1. Process of recovering volatilizable values from ores or other materials containing the same, comprising passing a current of gas in contact with the charge at a temperature sufficient to effect volatilization of values therefrom; separating the condensible values from the heated gas stream at an elevated temperature; and returning a portion at least of the heated gas into contact with the charge, while so adjusting the heat content of the portion of the gas so returned as to maintain the charge at the volatilizing temperature.

1,473,723. METHOD OF PRODUCING ELEMENTAL SULPHUR. CARL S. FOGH, Philadelphia, Pa. Filed Oct. 23, 1920. Serial No. 419,021. 3 Claims. (Cl. 23—10.)

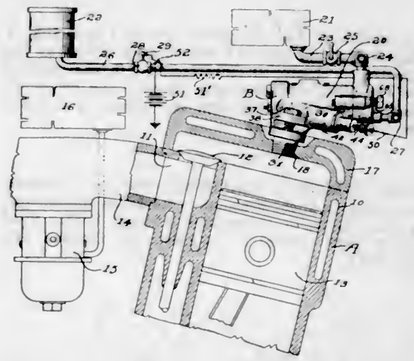
1. The continuous process of volatilizing sulphur from sulphur-containing materials which consists in heating such material, during its passage through a gas-tight mechanically rabbled furnace, by contact with nonoxidizing gases heated to temperature sufficient to volatilize sulphur, removing the gases carrying sulphur vapor from the furnace in continuous flow, separating out any dust particles therefrom, condensing the sulphur from said gases, reheating the residual gases to a sufficient temperature to cause volatilization of sulphur from the material passing through the furnace, and passing such heated gases into the furnace.

1,473,724. PUMP PIPE LIFT. ROBERT H. GIBSON, Carbon, Alberta, Canada. Filed Dec. 13, 1920. Serial No. 430,235. 7 Claims. (Cl. 294—104.)



1. In a pump pipe lift, a convex member having a serrated concaved interior for application to one side of a pipe, a lever member having a serrated concaved interior for application to the other side of the pipe, links pivotally connected to the convexed member, laterally extending trunnions on the lever member, rings on the free ends of the links adapted to extend over the trunnions, pins extending through the trunnions for normally holding the rings thereon and means connected with the free end of the lever member for pulling the same in a forward direction.

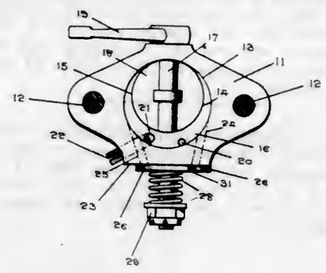
1,473,725. IMPULSE STARTER AND IGNITION BOOSTER FOR INTERNAL-COMBUSTION ENGINES. LEVEL C. HALL, Portland, Oreg. Filed Jan. 18, 1922. Serial No. 530,108. 15 Claims. (Cl. 123—191.)



1. A combined starting and charge igniting device for internal combustion engines, comprising a casing having direct communication with the cylinder heads of an engine, a firing chamber in the casing, means for introducing fuel and compressed air in the casing, and means for firing the charge in said casing.

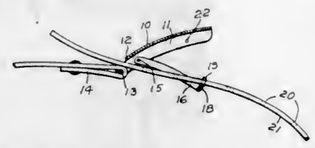
1,473,726. AIR INSPIRATOR FOR ENGINES. WILLIAM WAYNE HALLINAN, Pueblo, Colo. Filed Dec. 13, 1922. Serial No. 606,709. 9 Claims. (Cl. 123—119.)

6. A device of the character described comprising a body having an opening for the passage of carbureted air to an engine, a throttle valve mounted in said opening, said body having primary and secondary air entry ports leading to said opening, and a shutter for said ports movable with the throttle valve and having a portion to completely open the primary port when the



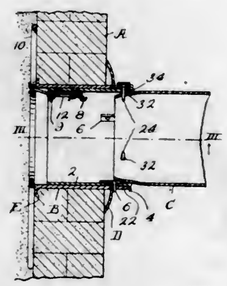
throttle valve is opened slightly, the shutter having an eccentric portion for opening the secondary port gradually as the throttle valve is opened further.

1,473,727. BELT BUCKLE. HERBERT D. HOUGH, Cranston, R. I., assignor to Wightman & Hough Company, Providence, R. I., a Corporation of Rhode Island. Filed May 11, 1921. Serial No. 468,667. 7 Claims. (Cl. 24—180.)



1. A belt buckle comprising a plate, a strap engaging member pivoted to the plate between the ends of the plate, the distal end of said member cooperating with one end of said plate to provide separable gripping jaws to engage one end of a belt, a spur on the distal end of said member to selectively engage in the openings of the belt, when the jaws are opened, means at the other end of said plate to which the other end portion of the belt may be attached, the pivot of said strap engaging member and said last mentioned means being arranged relative to each other to move said gripping jaws and hold them in normally closed positions when a strain is brought upon the belt.

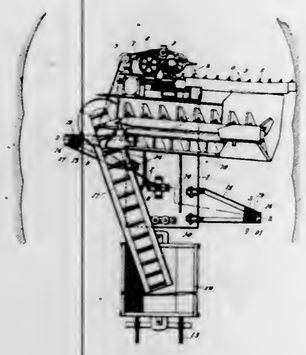
1,473,728. STOVEPIPE ANCHOR. GUSTAVE J. LAMBERT, Salina, Kans. Filed Apr. 7, 1922. Serial No. 550,504. 3 Claims. (Cl. 126—318.)



1. In anchoring means of the character described, a sleeve adapted to be inserted in the opening of a flue, a band placed around the outer end of said sleeve, studs

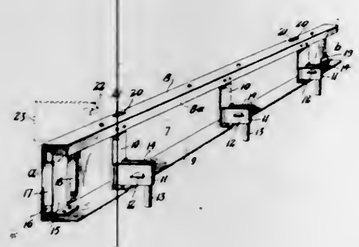
extending inwardly from said band and passing through registering holes in the sleeve and a stove-pipe having one end inserted in said sleeve, a lug fixed to the band near one end thereof and adapted to enter an opening in said band near its opposite end, and a fastener adapted to be slid over the overlapping ends of the band to coact with said lug in securing the ends of the band together.

1,473,729. MINING-MACHINE-ANCHORING DEVICE. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Sept. 11, 1918, Serial No. 253,633. Renewed Apr. 11, 1923. 11 Claims. (Cl. 262—28.)



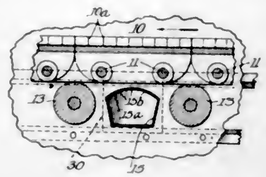
10. In a mining machine of the class described the combination of the cutter, the horizontally rotating cutter carrier, the base which is stationary when the cutting apparatus is advancing, the jack engaging with the roof and bearing downward on the floor on a vertical line remote from the base, and a bracing holding arm movably connected to the base and detachably connected at its outer end to the jack.

1,473,730. ROAD RAIL OR FORM. HOWARD B. LOXTERMAN, Pittsburgh, Pa., assignor to Blaw-Knox Company, a Corporation of New Jersey. Original application filed May 7, 1919, Serial No. 295,282. Divided and this application filed May 5, 1921. Serial No. 467,058. 4 Claims. (Cl. 25—118.)



2. A road rail or form comprising a rail member, a coupling slidable longitudinally of the rail, and means preventing separation of the coupling from the rail.

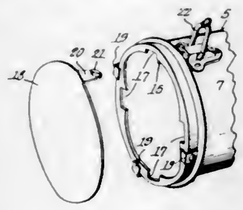
1,473,731. FURNACE CONSTRUCTION. PETER H. MCKENZIE, Chicago, Ill. Filed Aug. 9, 1920. Serial No. 402,479. 4 Claims. (Cl. 110—40.)



2. In combination with a movable fuel-supporting means, a plurality of air supply ducts located transversely therebeneath, the upper surfaces of said ducts being perforated and located closely adjacent said supporting means, and said ducts being spaced to permit natural draft therebetween

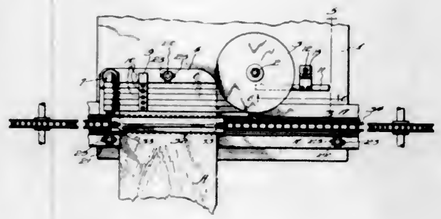
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1,473,732. CONTAINER. JOHN H. NEWHARD, Allentown, Pa. Filed Feb. 28, 1922. Serial No. 539,810. 2 Claims. (Cl. 220—55.)



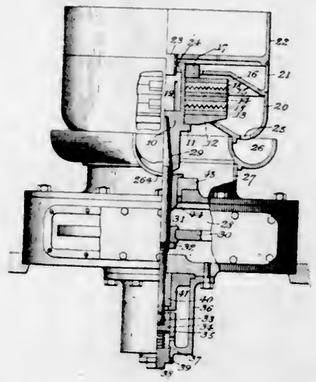
1. A device of the character described including a tubular body, a plurality of L-shsped clips carried by the end thereof, a closure slidably received in the clips, a tongue extending at right-angles thereto, and means on the casing for engagement with the tongue to lock the closure against movement.

1,473,733. SCARFING MACHINE. CHARLES B. NORRIS, Grand Rapids, Mich., assignor to Haskelite Manufacturing Corporation, a Corporation of New York. Filed June 2, 1923. Serial No. 642,896. 15 Claims. (Cl. 144—124.)



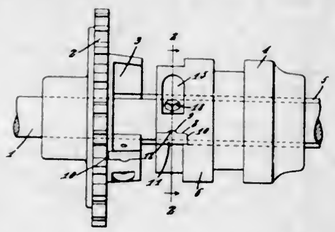
1. In a scarfing machine, a saw, a work-supporting table arranged beside the saw and having the work-supporting surface arranged at the proper angle to cause the saw to form the proper bevel at one edge of a panel moved along the table past the saw, the table having the end adjacent to the saw shaped to conform to the periphery of the saw, and means for holding on the table a panel to be sawed.

1,473,734. CENTRIFUGAL EMULSIFIER. CHRISTIAN F. PAUL, Jr., Austin, Tex., assignor to Ernest Nalle, W. P. Allen, and Ed Rosengren, trustees, all of Austin, Tex. Filed June 15, 1921. Serial No. 477,857. 9 Claims. (Cl. 259—95.)



1. In an apparatus for the purpose described, in combination, a head adapted to rotate on a vertical axis and provided with a plurality of outwardly extending tortuous non-widening passages to which liquids to be mixed or emulsified can be driven by centrifugal force, means for delivering the liquids to said passages at their inner ends, and means for rotating said head.

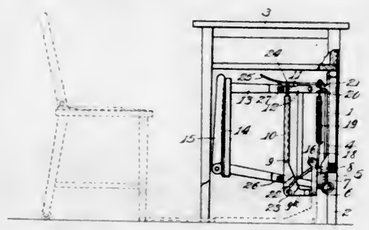
1,473,735. FACING FOR CLUTCH JAWS. CARL F. ROHWER, Hot Springs, Ark. Filed Mar. 8, 1921. Serial No. 450,598. 5 Claims. (Cl. 192—108.)



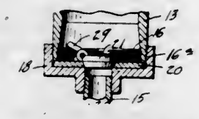
1. In a device of the class described, a clutch member having an outstanding jaw, a facing mounted upon the side of the jaw, and a securing element forming a detachable connection between the facing and the jaw, the facing and the jaw constituting cooperating parts, one of which is provided with ribs disposed substantially at right angles to each other, the other of said cooperating parts having grooves receiving the ribs, the ribs and the grooves coacting to hold the facing against movement in the direction of the length of either of the ribs, thereby to relieve the strain on the securing element.

1,473,736. TABLE AND CHAIR STRUCTURE. WILLIAM S. PHILLIPS, Cameron, W. Va. Filed Aug. 8, 1922. Serial No. 580,432. 4 Claims. (Cl. 155—80.)

1. The combination with a table, of a hanger carried by said table below the top thereof, a telescoping bar having an inner portion disposed at an angle thereto, said portion being mounted in pivotal relation to said hanger, a spring having pivoted-link connection with said bar and tending to swing the latter on its pivotal mounting to an upright position, a chair pivotally attached to the outer end of said bar and adapted to swing inward and upward to elevated under-table position with said bar, a latch carried by the table automatically interengageable with a part of said bar for rigidly supporting the latter and the thereby-carried chair in elevated position, and means carried by said chair for actuating said latch to bar-releasing position when an elevating and retracting force is applied to the chair.

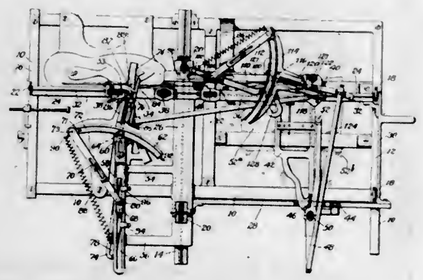


1,473,737. PUMP. LOUIS FRANK PONTBRIAND, Highgate Center, Vt. Filed Sept. 30, 1922. Serial No. 591,558. Renewed Oct. 6, 1923. 2 Claims. (Cl. 103—46.)



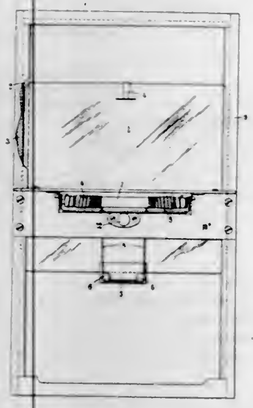
1. In a pump, a cylinder having an open lower end, the bore of the cylinder at the lower end thereof being tapered to permit the insertion therein of a wooden suction pipe, said lower end of said cylinder being provided with screw-threads adapted for the reception of a coupling member whereby a metal suction pipe may be attached to the cylinder.

1,473,738. PATTERN-GRADING MACHINE. FREDERIC W. POTTER, Los Angeles, Calif., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me., a Corporation of Maine. Filed June 23, 1919. Serial No. 306,131. 65 Claims. (Cl. 33—23.)



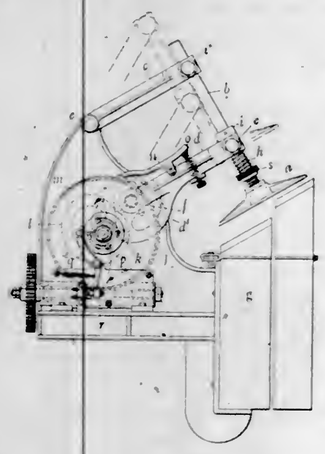
1. In a machine of the class described, model holding means, work holding means, model following means and work treating means, arranged for relative traverses in pairs in more than one dimension, and mechanism for effecting systematic variations in more than one dimension in the velocity ratios of the traverses.

1,473,739. SPRING-ACTUATED WINDING MECHANISM, PARTICULARLY FOR WINDOWS. ERNEST JOHN RAWLINGS, Balham, London, England. Filed Sept. 12, 1922. Serial No. 587,801. 9 Claims. (Cl. 16—198.)



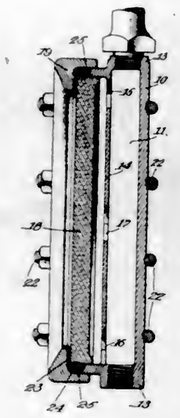
1. In winding mechanism of the spring barrel type, a helical spring composed of a plurality of segments concentrically arranged in series the one within the other and of different gauge wire, the innermost segment being of smallest gauge wire and the outer segment or segments being of wire of greater or successively greater gauge.

1,473,740. PHOTOGRAPHIC-PRINTING MACHINE. EDWARD SANKEY, Barrow-in-Furness, England. Filed Jan. 18, 1923. Serial No. 613,513. 3 Claims. (Cl. 95—73.)



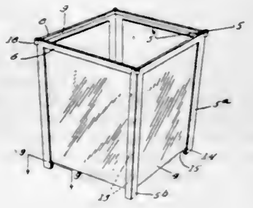
1. In photographic printing machines, the combination comprising a platen, a stem carrying said platen, radius links having the said stem in pivotal connection therewith, a spring mounted on the stem above the platen, and below said radius links, a collar fixed upon the said stem and normally supporting same, power actuated means for vibrating the said links, and means preventing the trapping of the hand of the operator and the imposition of undue pressure on the negative, as set forth.

1,473,741. WATER GAUGE. GEORGE H. SARGENT, Chicago, Ill. Filed Sept. 19, 1921. Serial No. 501,745. 3 Claims. (Cl. 73—54.)



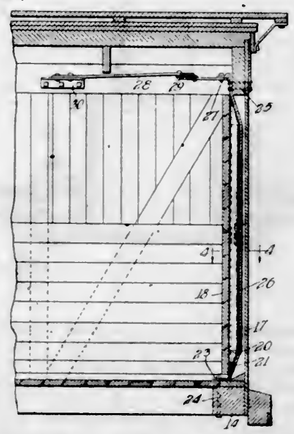
1. A water gauge, comprising a body member formed to provide a chamber having openings in the top and bottom walls and provided with an apertured partition disposed from top to bottom at a point forward of said top and bottom openings, said body member being also formed with a gland-forming rim disposed forwardly of the partition to provide a glass-receiving socket, a sight-glass arranged within said socket in spaced relation with said partition to provide a water chamber therebetween, a cover member having a sight opening and adapted to receive said gland-forming rim of the body member and said sight-glass, a packing element located in the cover member forward of the gland-forming rim and adapted to encircle the edges of the sight-glass to maintain the latter in place, and means whereby the body member and cover member are adjustably secured together and the packing element compressed into holding relation with the sight-glass.

1,473,742. WASTEBASKET. JOSEPH SCHAEFER, Cleveland, Ohio, assignor to The Van Dorn Iron Works Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 16, 1921. Serial No. 469,905. 3 Claims. (Cl. 220—67.)



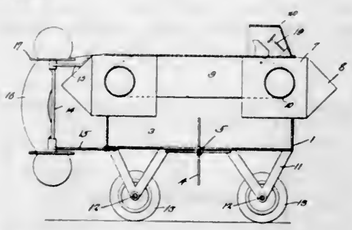
1. A sheet metal basket, comprising a bottom and four side wall portions, two adjacent side wall portions having the metal thereof bent outwardly and interlocked to form a reinforcing corner post, and said bottom having an outwardly extending corner portion entering the interlocking portions of said side wall portions and locking them together.

1,473,743. END REENFORCEMENT FOR RAILWAY BOX CARS. EDGAR E. SCHLESINGER, Chicago, Ill., assignor to Walter P. Murphy, Chicago, Ill. Filed Dec. 2, 1919. Serial No. 341,860. 20 Claims. (Cl. 105—410.)



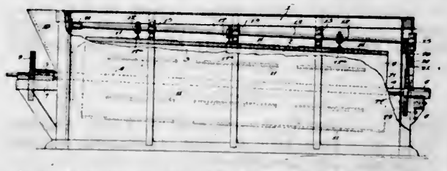
2. The combination with the outer sheathing and inner lining of a railway car, of a metal panel arranged between said sheathing and lining, and means for securing said panel to the framing of the car.

1,473,744. AIRSHIP. DAVID SMITH, Douglas, Wyo. Filed Sept. 13, 1923. Serial No. 662,505. 2 Claims. (Cl. 244—5.)



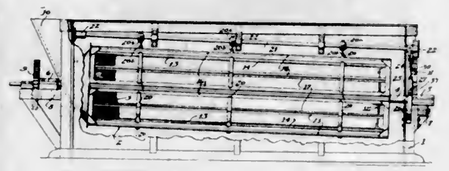
1. An airship including a closed body having side load carrying compartments and an intermediate propeller compartment, a propeller projecting below the body and mounted for rotation, front and rear gas containers projecting from the body at the center thereof, and parallel side gas containers within the body and communicating with the front and rear containers.

1,473,745. REVOLVING SCREEN. GEORGE M. STEDMAN, Aurora, Ind., assignor to Stedman's Foundry & Machine Works, Aurora, Ind., a Corporation of Indiana. Filed Apr. 27, 1921. Serial No. 464,771. 9 Claims. (Cl. 83—56.)



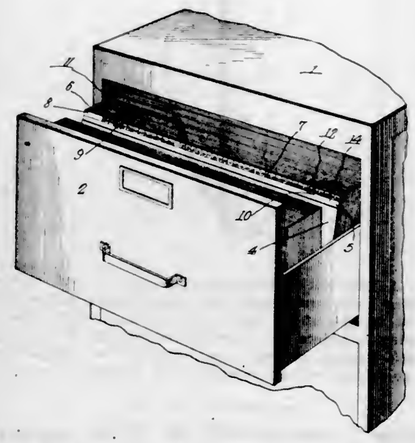
1. In a device of the class described, the combination with a rotatable foraminous walled polyfaced drum, of bars upon each face of said drum, intermediate thereof, arms momentarily contactable with said bars and means for causing said arms to momentarily contact said bars when any face of the said drum is in its uppermost position.

1,473,746. REVOLVING SCREEN. GEORGE M. STEDMAN, Aurora, Ind., assignor to Stedman's Foundry & Machine Works, Aurora, Ind., a Corporation of Indiana. Filed Apr. 19, 1922. Serial No. 555,552. 6 Claims. (Cl. 83—56.)



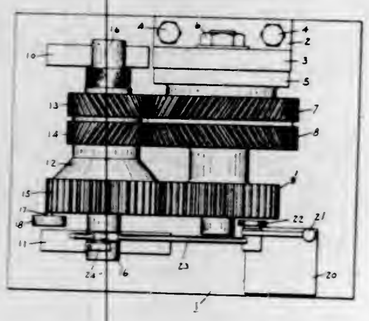
1. In a device of the class described, a foraminous wall drum composed of frame sections, each section comprising a pair of clamping frames, each frame having a centrally disposed longitudinal bar, said frames and bar adapted to engage at opposite sides of and clamp screen fabric therebetween, each of the outer of said frames having a plurality of bowed strips disposed at a right angle to the outermost longitudinal bar, said strips attached to said bar, bridging and spaced from said screening material, and terminally attached to said frame, and an arm hingedly mounted and adapted to descend by gravity against any one of said cross strips.

1,473,747. CORRESPONDENCE FOLDER. ALONZO THOMPSON, Philadelphia, Pa. Filed Oct. 2, 1922. Serial No. 591,993. 2 Claims. (Cl. 129—16.7.)



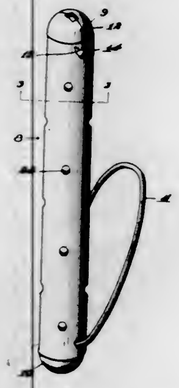
1. A folder capable of receiving correspondence, having near the upper edge thereof means for following up correspondence in said folder, said means comprising indicia of the months of the year and the days of the month, arranged substantially in a straight line across the width of the folder.

1,473,748. METHOD OF AND MEANS FOR TESTING GEARS. CHARLES L. TROSKY and CLAYTON C. MARSH, Indianapolis, Ind., assignors to Allison Experimental Company, Indianapolis, Ind., a Corporation. Filed Sept. 8, 1919. Serial No. 322,362. 4 Claims. (Cl. 73—51.)



1. Means for testing gears comprising a master testing gear mounted on an arbor and fixed to a test table and adapted to cooperate with a gear to be tested also mounted on an arbor, parallel plates, said second arbor resting on said parallel plates, and means co-operating with said arbors for determining the accuracy of the teeth.

1,473,749. CURLER. OLIVE E. VANDAMARK, Los Angeles, Calif. Filed June 29, 1920. Serial No. 392,673. 2 Claims. (Cl. 132—42.)

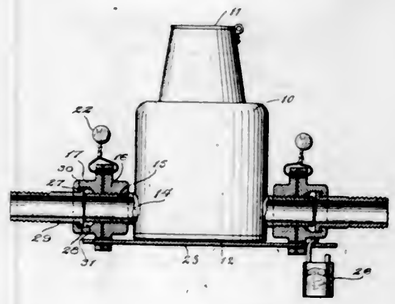


1. A hair curler comprising a resilient and elastic tubular body formed with dome-shaped ends and having a slit in one of its ends terminating in perforations, forming shoulders at the inner ends of the slit, and a flexible fastener carried by said tubular body engageable in the perforations for retaining hair wound on the body.

1,473,750. PURIFICATION OF WASTE LIQUORS. FRED W. WAGNER, Pittsburgh, Pa. Filed May 18, 1922. Serial No. 561,787. 3 Claims. (Cl. 210—1.)

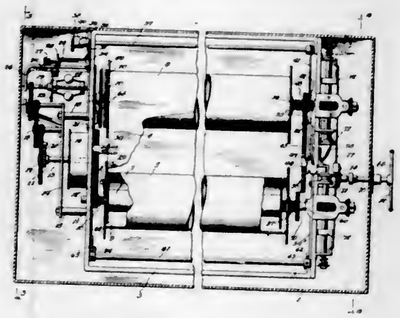
1. The method herein described of purifying the waste liquor from an ammonia still which consists in neutralizing the liquor with additions of acid, separating the resultant liquid from the precipitate, mingling with the so separated liquid coke-oven gas, and after mingling allowing the liquid and gaseous resultants to separate.

1,473,751. LOCK FOR WATER METERS. JAMES J. WALKER, Youngstown, Ohio. Filed Sept. 5, 1922. Serial No. 586,179. 2 Claims. (Cl. 70—122.)



1. In combination with a water meter having threaded tubular projections providing inlet and outlet openings for the meter; of couplings adapted to connect said tubular projections with a supply pipe line and means for locking said couplings; each of said couplings including a short pipe inserted in said pipe line, a flange on said short pipe, a pair of nuts having threaded engagement with said tubular projection, one of said nuts revolubly engaging said flange; said locking means comprising apertured ears on the nuts, a bar extending across the water meter and engaging in the apertures of both couplings, said bar having a T at one end and a perforation at its other end adapted to receive a padlock.

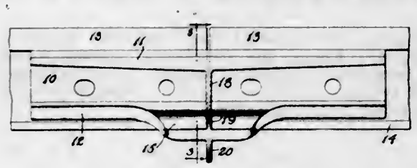
1,473,752. STATION INDICATOR. JOSEPH C. WOOD, Jackson, Tenn. Filed Aug. 1, 1922. Serial No. 579,041. 7 Claims. (Cl. 40—89.)



1. A station indicator comprising drums, an indicator belt carried by said drums, means for imparting a step by step movement to one of the drums to wind the belt thereon, a motor, means actuated by one of the drums to store energy in the motor, and means controlled by the indicator belt for rendering the step by step means inoperative and releasing said energy whereby the drums may be rotated uninterruptedly in a reverse direction to return the apron to its initial position.

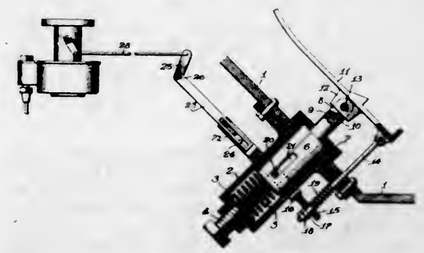
1,473,753. JOINT BAR. CHARLES D. YOUNG, Philadelphia, Pa. Filed May 25, 1921. Serial No. 472,566. 4 Claims. (Cl. 238—189.)

1. A rail joint bar comprising a web with head and foot portions for engaging between the heads and the bases of the meeting rail lengths, and a relatively narrow extension of the foot for engaging beneath the base of the rail lengths at their junction, said foot portion having a breathing space above the rail base in the middle region



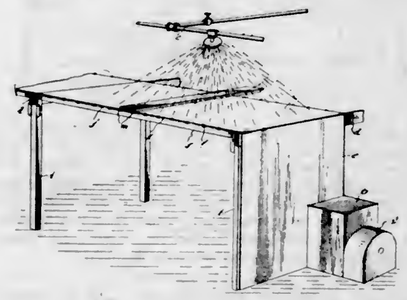
of the bar coextensive with its overlap with said base transversely of the bar, and extending over the whole of said extension.

1,473,754. THROTTLE-CONTROL APPARATUS FOR MOTOR VEHICLES. GEORGE BAILHE, Fort Wayne, Ind. Filed Mar. 19, 1921. Serial No. 453,797. 6 Claims. (Cl. 74—81.)



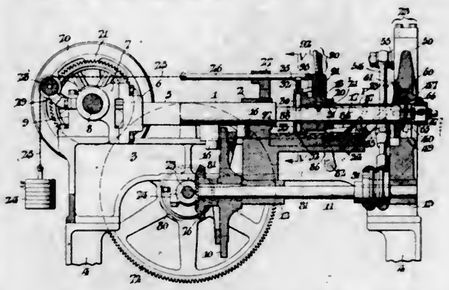
1. A throttle control apparatus for motor vehicles comprising an oscillatable foot-pedal mounted upon a plunger having a resilient support, a fuel supply regulator, an oscillatable lever connected to said fuel supply regulator and means connected to the foot-pedal and lever so that when the pedal is oscillated a like oscillation will be produced in the lever to actuate the fuel supply regulator.

1,473,755. DRY KILN. REUBEN E. ABBOTT and HENRY E. BEYSTER, Detroit, Mich., assignors to Fisher Body Corporation, Detroit, Mich., a Corporation of New York. Filed Jan. 24, 1921. Serial No. 439,621. 6 Claims. (Cl. 169—2.)



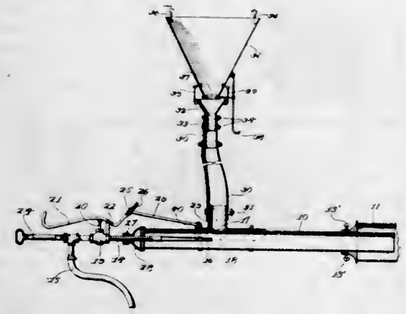
1. In a kiln, the combination of a side wall enclosure, a roof, means for automatically removing the roof from over the body of the kiln when the heat in the kiln reaches a predetermined degree and an automatic sprinkler system supported above the side wall enclosure.

1,473,756. PIPE-BENDING MACHINE. JOAH BROGDEN, Melrose Park, Pa., assignor to David Lupton's Sons Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 2, 1921. Serial No. 512,942. 7 Claims. (Cl. 153—69.5.)



1. A machine for bending pipes of rectangular cross section, comprising die mechanism including a matrix in the form of a head, over which the pipe to be bent is mounted, said head having a configuration corresponding accurately to the interior of the pipe and also a perimetrical forming groove; and opposed diagonally movable complementary male die elements having obtuse hights adapted to force the metal of the pipe into the forming groove of said matrix.

1,473,757. SOOT BLOWER. DAVID J. DORSEY, Baton Rouge, La. Filed Apr. 18, 1922. Serial No. 554,994. 4 Claims. (Cl. 230—26.)

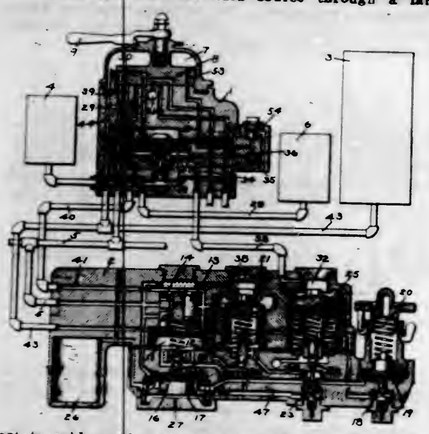


3. An apparatus for cleaning boiler tubes or flues including a blow pipe provided with a lateral sand feed port, adjustable means on the blow pipe for closing or capping the adjacent end of a tube or flue to be cleaned, means for projecting a blast through the blow pipe, and means for supplying sand to the feed port, and consisting of a sleeve slidable on the blow pipe and having an opening registering with the feed port, said sleeve being provided with a laterally extending collar, a conveyor flexibly connected with said collar, and a funnel secured to said conveyor, and being provided with a valve whereby the supply of sand fed to the feed port is regulated.

1,473,758. FEED-VALVE DEVICE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 16, 1922. Serial No. 594,785. 8 Claims. (Cl. 303—67.)

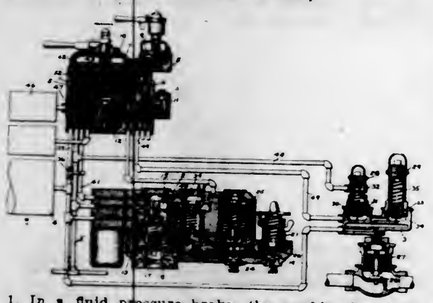
1. In a fluid pressure brake, the combination with a brake pipe, a source of fluid under pressure, and a valve for supplying fluid from said source of pressure to the

brake pipe, of a brake valve device having one position for supplying fluid from said source through a large



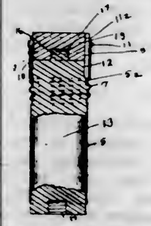
port to said supply valve and another position for supplying fluid from said source through a restricted port to said supply valve.

1,473,759. BRAKE-VALVE DEVICE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Nov. 11, 1922. Serial No. 600,286. 6 Claims. (Cl. 303—14.)



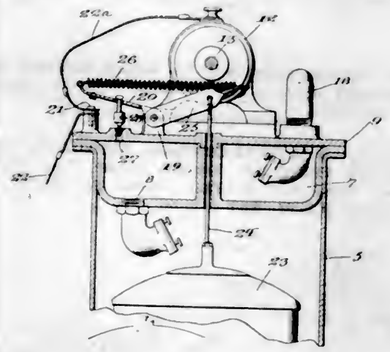
1. In a fluid pressure brake, the combination with a brake pipe, a brake valve device having a position for venting fluid from the brake pipe to effect an application of the brakes, a main valve, and a pipe through which fluid is supplied from the main reservoir to the brake valve device, of a cut-out cock in said pipe and a non-obstructible connection from the brake pipe to said brake valve device.

1,473,760. HOLDER FOR SHAVING-SOAP STICKS. FRANK GRANT, Westfield, Mass. Filed Nov. 14, 1919. Serial No. 338,104. 2 Claims. (Cl. 206—56.)



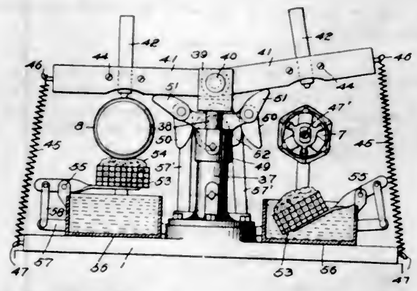
1. A holder for shaving soap sticks and the like consisting of a pair of tube sections having interfitting connection, one of said sections having a screw thread to engage the soap stick or like and the other section having a key on its side wall to prevent relative rotation of the soap stick within said section.

1,473,761. FUEL-ELEVATING DEVICE. HUGO B. GRANT, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Dec. 22, 1921. Serial No. 524,332. 4 Claims. (Cl. 103—26.)



1. In a liquid-fuel supply-apparatus, a liquid receiving vessel having an outlet, a vacuum chamber having a liquid outlet to the vessel and a liquid inlet, and also provided with an air-vent port, an air pump having its cylinder opening into the vacuum chamber, an electric motor driving the pump, a switch controlling the motor circuit, a valve for the vent port, and means for simultaneously operating said switch and valve.

1,473,762. GLASS-BANDING MACHINE. JAMES BOYD GREER, Pittsburgh, Pa. Filed Aug. 25, 1921. Serial No. 495,292. 9 Claims. (Cl. 51—161.)

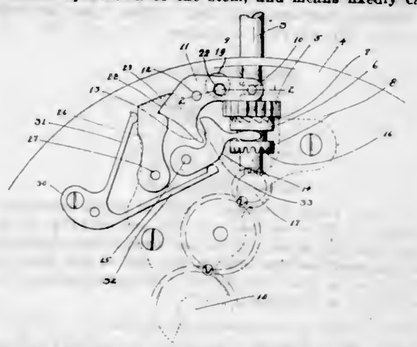


1. A cutting machine comprising an intermittently rotating chuck adapted to receive the article to be cut, means for actuating the same, a cutter carrying arm mounted adjacent said chuck, a cutter thereon, said cutter arm being pivoted to a supporting head, said head and cutter arm being freely removable from the machine as a unit, and automatic means for moving the cutter into and out of engagement with the said article.

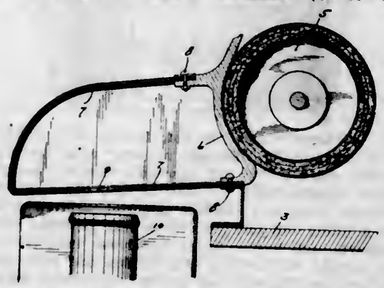
1,473,763. WINDING MECHANISM FOR WATCHES. FREDERICK G. GRUEN, Cincinnati, Ohio, assignor to The Gruen Watch Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 21, 1922. Serial No. 538,313. 4 Claims. (Cl. 58—68.)

1. In a device of the class described the combination of a reciprocating stem, a yoke pivotally mounted adjacent

the stem adapted to be moved about its pivotal mounting by the reciprocation of the stem, and means fixedly carried by the yoke for precluding movement of the yoke longitudinally of the axis of its pivotal mounting.

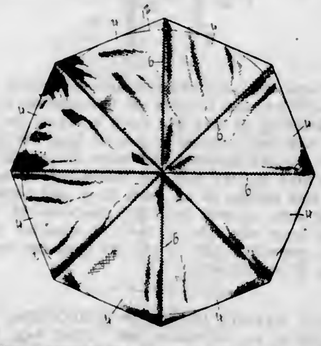


1,473,764. HEATING DEVICE FOR MANGLES. ARNOLD L. GUESMER, Minneapolis, Minn. Filed Jan. 19, 1920. Serial No. 352,430. 5 Claims. (Cl. 68—9.)



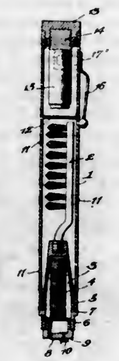
2. The combination with an ironing machine roller and a shoe extending partially around said roller at one side thereof, of a hood extending laterally from said shoe and having a substantially flat bottom adapted to overhang an oil stove, and having openings in said bottom disposed over the burners of said stove whereby the heat from the stove may pass into said hood and heat said shoe.

1,473,765. BUFFING WHEEL. THEODORE W. HANRATH, Chicago, Ill. Filed Aug. 20, 1920. Serial No. 404,854. 4 Claims. (Cl. 58—68.)



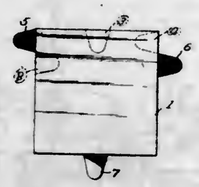
A buffing wheel having a plurality of laminations of fabric, face plates for securing the laminations together at the center, the layers being formed of a plurality of sectors stitched together at the edges, substantially all of the threads of the sectors running oblique to the tangents drawn to the circumference at the points where the individual threads terminate, the aggregate angular width of the sectors being somewhat in excess of 360°, thereby producing a moderate fullness and causing the buffing wheel to be thicker at the circumference than toward the center, the laminations lying in surface contact substantially throughout their extent.

1,473,766. TOOTHBRUSH. CHARLES F. HEALY, New York, N. Y. Filed May 31, 1922. Serial No. 564,971. 1 Claim. (Cl. 132—84.)



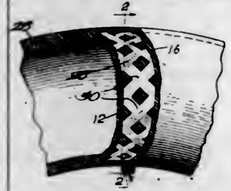
1. A device of the kind described comprising a container, a partition in said container dividing said container into two parts, a brush adapted to be removably inserted in one end of said container and adapted to be withdrawn from said container and to be removably attached to one end of said container, a hollow handle for said brush removably attached thereto, dental floss inserted in said hollow handle, said hollow handle having a removable closure therefor, said closure having an aperture therethrough for the passage of the end of said dental floss, and said closure having a floss holder and cutter on the end thereof, and a removable cap adapted to be inserted in the other end of said container, said cap having dentifrice removably inserted in a socket in said cap.

1,473,767. FLOOR OR WALL COVERING. LEON J. D. HEALY, Racine, Wis., assignor to Wright Rubber Products Company, Racine, Wis., a Corporation of Wisconsin. Filed Aug. 5, 1921. Serial No. 490,038. 8 Claims. (Cl. 72—25.)



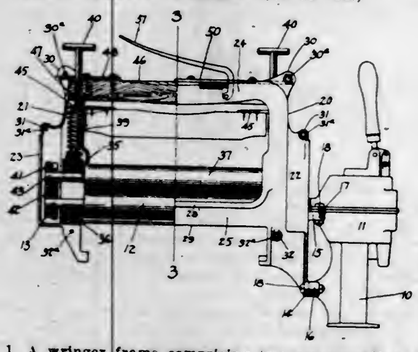
1. An interlocking floor or wall covering unit comprising a flat block having its upper and lower portions substantially co-extensive and provided with a recess in one edge and the bottom thereof and a projection on another edge thereof whereby when two blocks are arranged side by side with their corresponding edges parallel on the surface to be covered the projection of one lies flat on such surface and enters the recess in the other thus locking the two blocks together.

1,473,768. REENFORCED RIBBED PNEUMATIC TUBE. LOUIS W. HOTTEL, Chicago, Ill. Filed Dec. 13, 1920. Serial No. 430,142. 1 Claim. (Cl. 152—13.)



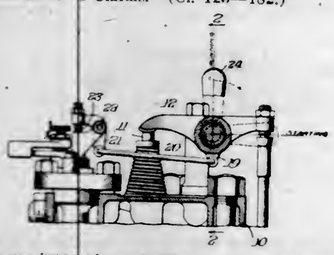
An inner tube formed of inner and outer layers of rubber vulcanized together with stretchable fabric reinforcement therebetween, said reinforcement being provided by oppositely spirally wound bands of fabric with the adjacent turns of each band spaced apart, whereby reinforcement areas of double thickness are provided at uniformly distributed locations throughout the tube.

1,473,769. CLOTHES-WRINGER FRAME. ARTHUR O. HUBBARD, Minneapolis, Minn. Filed May 22, 1920. Serial No. 383,442. 3 Claims. (Cl. 68—32.)



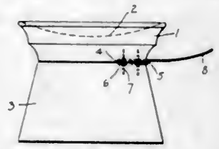
1. A wringer frame comprising two corresponding metallic members placed face to face, each having vertical end members and integral gear housings and upper and lower horizontal members and bearings for wringer rolls, said frame members also having strengthening ribs and lugs with bolts passing therethrough for securing said frame members together.

1,473,770. INTERNAL-COMBUSTION ENGINE. RASMUS M. HVID, Chicago, Ill. Filed Sept. 6, 1921. Serial No. 498,675. 4 Claims. (Cl. 123—182.)



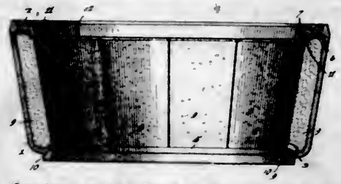
1. In an internal combustion engine, the combination of a cylinder having inlet and exhaust valves, rockers for actuating the same, a fuel valve, means connecting the inlet and fuel-valve actuating means for operation in unison, and means associated with said valve-actuating means for manually shifting the pivots of said rockers whereby to maintain said exhaust valve open and said fuel valve closed during a cycle of said engine.

1,473,771. HINGE FOR CHANGE RECEIVERS. JAMES H. KEMPER, PHILIP M. HOFFMANN, and JOHN M. TEETOR, Indianapolis, Ind. Filed Apr. 30, 1921. Serial No. 465,782. 2 Claims. (Cl. 16—137.)



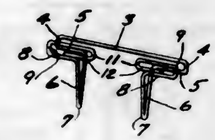
2. In a hinge structure, a pair of leaves embedded in contiguous faces of two members one of which is movable from the other, and an operating handle having one of its ends inserted between one leaf of the hinge and the face of the corresponding movable member, substantially as set forth.

1,473,772. FIREPOT. JULIUS B. KOEHLER, Cincinnati, Ohio, assignor to The Monitor Stove Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 29, 1922. Serial No. 547,826. 5 Claims. (Cl. 126—144.)



1. A frustum-conical fire-pot, formed with upper and lower horizontally disposed annular webs having respective downwardly and upwardly directed peripheral flanges, defining with the wall of said pot respectively, relatively deep and shallow opposingly faced grooves, and a lining for said pot comprising tapering circular segments, each having upper and lower interior peripheral angular end notches, said notches and ends engageable with said flanges and grooves for locking said segments within said pot.

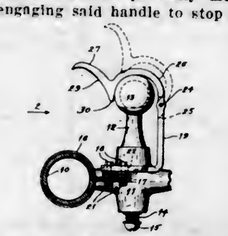
1,473,773. PRICE TAG. FREDERICK KOHNLE, Dayton, Ohio, assignor to The Monarch Marking System Company, Dayton, Ohio, a Corporation of Ohio. Filed Mar. 10, 1922. Serial No. 542,759. 2 Claims. (Cl. 40—25.)



1. A wire clip as a tag fastener, comprising a single length of wire bent to form an intermediate connecting bar, a plurality of back and forth bends at the opposite ends of said bar, adapted to provide loops for threading through the tag material and pairs of parallel strands for clinching the tag material therebetween, and double strand pins leading at an angle from said bends at the opposite ends of said bar, the free ends of the wire clinched upon one side of the tag material, each end between respective pairs of strands upon the corresponding side of tag material.

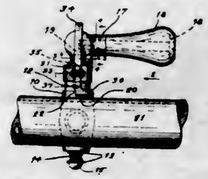
1,473,774. SAFETY LOCK FOR STOPCOCKS. EDWARD W. LEECH, Jr., Baltimore, Md. Filed Aug. 10, 1921. Serial No. 491,194. 2 Claims. (Cl. 251—166.)

1. The combination with a manifold, a stop cock connected therewith and a handle for operating said cock, of a clamp on said manifold, a bracket supported by said clamp, and a lock pivotally mounted on said bracket and engaging said handle to stop motion of said



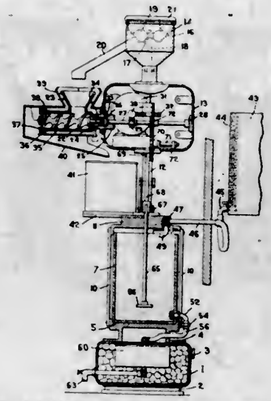
handle in one direction, said bracket projecting into the path of said handle to stop motion of said handle in the other direction.

1,473,775. SAFETY LOCK FOR STOPCOCKS. EDWARD W. LEECH, Jr., Baltimore, Md. Filed Oct. 13, 1921. Serial No. 507,567. 2 Claims. (Cl. 251—166.)



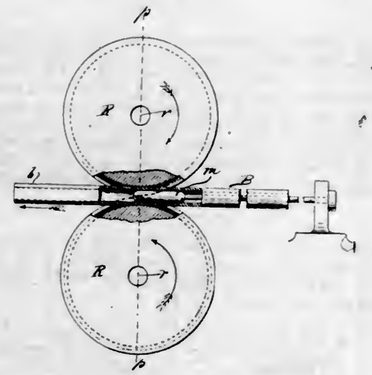
1. The combination with the body of a stop cock, a valve mounted therein, a handle for turning said valve, a notch in said body, a pin in said valve extending into said notch to limit the movement of said valve and a screw for securing said handle to said valve, of a band clamped around said valve and comprising an extension having a hole for the reception of said screw and ears formed integrally with said band, a pin mounted in said ears, a lever pivoted on said pin and comprising a guard extending between said first named pin and a face of said notch and means for holding said guard between said first named pin and face.

1,473,776. DISPLAY APPARATUS FOR PREPARING AND DISPENSING FRESH-FRUIT BEVERAGES. JACOB LEVIN, Springfield, Mass., assignor to The Lebros Manufacturing Co., Inc., New York, N. Y., a Corporation of Massachusetts. Filed Aug. 25, 1922. Serial No. 584,364. 2 Claims. (Cl. 146—3.)



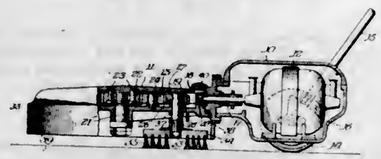
2. Display apparatus for preparing and dispensing fresh fruit juice beverages comprising a motor casing, a motor therein, a hopper mounted above said motor casing and provided with feeding means for forcing the fruit from said hopper, pressing and cutting means extending laterally from said motor casing, simultaneously operable with said feeding means to feed fruit from said hopper to said chopper, said pressing and cutting means acting to comminute the body of the fruit to break up the cellular walls thereof which contain the liquid constituents of the fruit.

1,473,777. MANUFACTURE OF NUTS FOR SCREW BOLTS, ETC. FRANCIS D. ARCHIBALD, Mamaroneck, N. Y. Filed May 9, 1921. Serial No. 467,790. 3 Claims. (Cl. 10—86.)



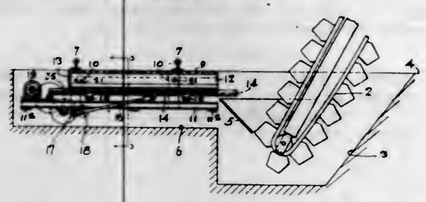
1. The method herein set forth of manufacturing nut blanks of the character designated in one continuous operation from metallic tubes of prescribed internal diameter, consisting in preliminarily swaging the tube to the size and shape of the matrix between reducing rolls maintaining such internal diameter by mandrel-support while changing the tube externally to suitable flat sided configuration in cross section by passing it between compression rolls at right angles to the mandrel, and maintaining a prescribed internal diameter and an external diameter to afford, by roll expression, the requisite peripheral displacement of the metal to create the desired angular configuration of the nut blank substantially as and for the purpose set forth.

1,473,778. SCRUBBING MACHINE. HOWARD F. BARRY, Chicago, Ill., assignor to The Ideal Utilities, Chicago, Ill., a Common Law Trust of Illinois. Filed May 9, 1921. Serial No. 468,094. 2 Claims. (Cl. 15—49.)



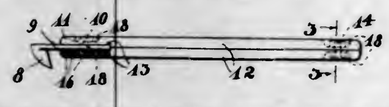
1. In a scrubbing machine, the combination of a brush housing, a brush holder pivoted therein, a gear fixed to the housing, a plurality of brushes pivoted on the holder, a gear fixed to each brush, idler gears engaging said stationary and brush gears, and a motor for operating said holder.

1,473,779. FEEDER FOR LOADING AND UNLOADING MACHINES. CLARENCE O. BROWN and HENRY B. WALKER, Lancaster, Ohio, assignors, by mesne assignments, to The Fairfield Engineering Co., Marion, Ohio, a Corporation of Ohio. Filed July 19, 1921. Serial No. 485,812. 4 Claims. (Cl. 198—220.)



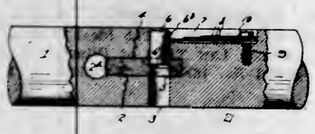
1. A feeder for loading and unloading machines comprising side plates having their lower edges bent inwardly, wear strips reversibly secured to and extending beyond the bent lower portions of the said side plates, a bottom plate adapted to reciprocate beneath the said side plates, and parallel rectangular bars secured to the top of the said bottom plate near the side edges thereof, the said bars having their upper and inner edges in contact with the under side of the said wear strips.

1,473,780. CAN OPENER. THOMAS L. CROOM, Los Angeles, Calif., assignor of one-half to C. C. Henry, Los Angeles, Calif. Filed Aug. 30, 1921. Serial No. 496,841. 1 Claim. (Cl. 30—3.)



In a can opener, a handle member made of sheet metal having its longitudinal edges and narrower terminations rolled in so as to meet the edges of a second similarly stamped member, the endwise facing surface of the material of the rolled-in-edges in one termination being roughened in the stamping to form engaging teeth of a width greater than the thickness of the material in the assembled can opener.

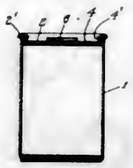
1,473,781. TOOL FOR BORING AND REAMING HOLES IN METAL. JOHN M. DAVIS, East Cleveland, Ohio, assignor to The Kelly Reamer Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 4, 1921. Serial No. 466,854. 10 Claims. (Cl. 77—56.)



1. The combination of a bar having a cross slot thru the same, a cross bore thru the bar and intersecting the slot, a cutter in the slot, having a recess, and a spring pin in the bore and engageable in said recess.

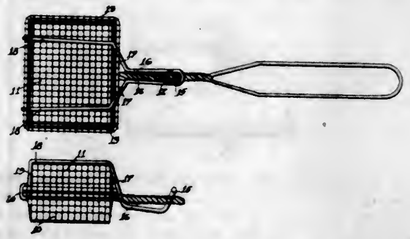
1,473,782. SLIDE-TOP CONTAINER. RALPH NELSON DORLE, Bayside, N. Y., assignor, by mesne assignments, to State Street Trust Company, trustee, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 15, 1920. Serial No. 430,907. 3 Claims. (Cl. 221—62.)

1. In a packaging container, an apertured top set below the upper edge of the container walls and having its margins clinched to the upper edges of said walls, two of said marginal portions at opposite sides of the top being formed with an internal overhang disposed at an acute angle to the upper surface of said top, and a slide member fitted within said top and controlling the delivery



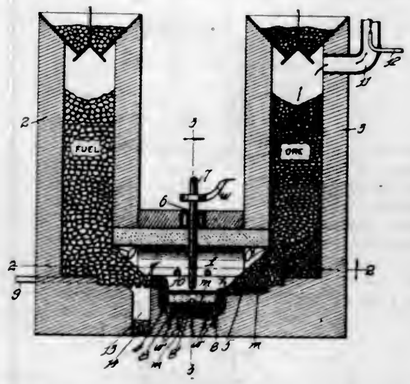
aperture thereof and having opposite edges upturned to fit within said overhang so as to be guided and retained thereby.

1,473,783. SOAP SHAKER. HAMMOND B. DOUGLAS, Worcester, Mass., assignor to The Washburn Company, a Corporation of Massachusetts. Filed Sept. 18, 1922. Serial No. 589,036. 4 Claims. (Cl. 45—28.)



1. As an article of manufacture, a soap holder comprising two parts constituting a bottom and cover, said bottom having a handle and the cover having a pair of wire hinges for connecting it with the bottom, said hinges extending across the cover and having a pair of arms at one side spaced apart a distance less than the diameter of the shank of the handle, whereby the said arms are adapted to cooperate with the shank of the handle to hold the cover in place.

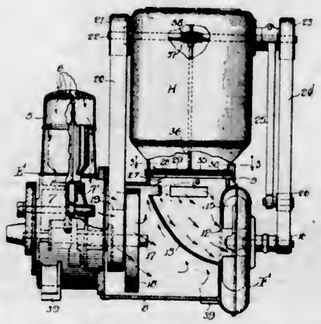
1,473,784. PROCESS OF ELECTRIC SMELTING AND FURNACE FOR SAME. JAMES C. DOW, Great Falls, Mont. Filed July 6, 1920. Serial No. 394,236. 19 Claims. (Cl. 204—64.)



1. In the smelting of ores, the process which consists in subjecting independent charges of ore and fuel in non-contacting relation to heat at a sufficient temperature to

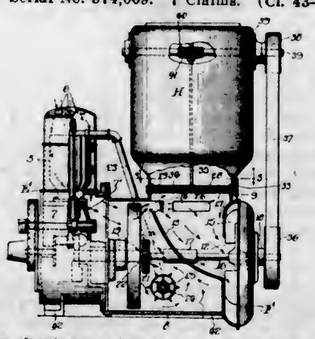
generate reducing gases from the fuel, causing the hot reducing gases to react upon the ore charge to effect a reduction of the metal constituents thereof, causing a fusion of the ore mass after reduction, and finally removing the molten products.

1,473,785. DUST SPRAYER. WARREN W. GORE, Madison, Wis., assignor to Fuller & Johnson Mfg. Co., Madison, Wis., a Corporation of Wisconsin. Filed July 10, 1922. Serial No. 574,008. 7 Claims. (Cl. 43—148.)



1. In a dusting machine, in combination, an engine, a fan, a casing between and rigidly connecting said engine and fan and having an air intake, a dust hopper mounted on said casing, a dust conduit between said hopper and fan air-ported to said casing, and driving connections from said engine to said fan.

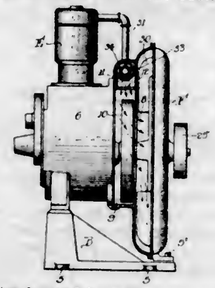
1,473,786. DUST SPRAYER. WARREN W. GORE, Madison, Wis., assignor to Fuller & Johnson Mfg. Co., Madison, Wis., a Corporation of Wisconsin. Filed July 10, 1922. Serial No. 574,009. 7 Claims. (Cl. 43—148.)



5. In a dusting machine, the combination of a gas engine, a fan, a casing located between and rigidly connecting said engine and fan and communicating with the suction side of the latter and with the atmosphere, a dust hopper mounted on and delivering dust into said casing, a heating device in said casing bathed by the air flowing through the latter, a pipe connection from the exhaust of the engine to said heating device, and driving connections from said engine to said fan.

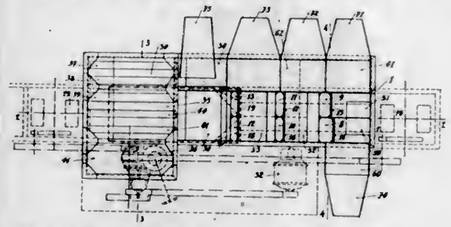
1,473,787. DUST SPRAYER. WARREN W. GORE, Madison, Wis., assignor to Fuller & Johnson Mfg. Co., Madison, Wis., a Corporation of Wisconsin. Filed July 10, 1922. Serial No. 574,010. 3 Claims. (Cl. 43—148.)

2. In a dusting machine, in combination, a gas engine, a fan driven by said engine and having a discharge pipe, a dust hopper mounted on said discharge pipe and delivering dust to the air flowing through the latter, an air intake chamber adjacent to the suction side of said



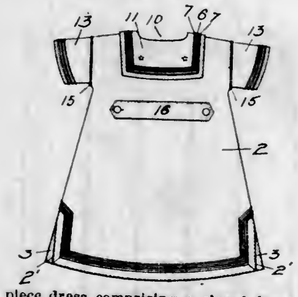
fan, an air heater located in said chamber, and means for passing the exhaust from said engine through said heater.

1,473,788. WASHING APPARATUS WITH MULTIPLE ASCENDING CURRENTS. ARMAND JACQUELIN, Paris, France. Filed Dec. 28, 1921. Serial No. 525,435. 2 Claims. (Cl. 83—82.)



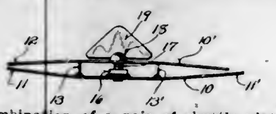
1. In a washing apparatus with multiple ascending currents, the combination of a constant level reservoir, a washing tank communicating with the said reservoir, partitions in said tank forming adjacent chambers in communication with each other at their lower ends, funnels adapted to receive the raw mixture to be treated and mounted on the said tank above the said chambers in free communication therewith, and overflows adjustably mounted in the open air on the said funnels and forming a discharge-passage for the washing medium containing the particles of smaller density.

1,473,789. BODY GARMENT. GERTRUDE KILLFEATHER, Spokane, Wash. Filed June 7, 1921. Serial No. 475,759. 1 Claim. (Cl. 2—145.)



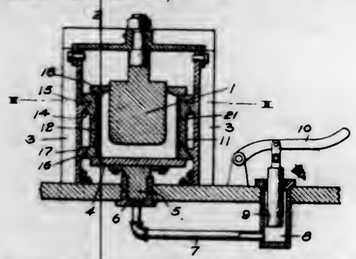
A one piece dress comprising a closed front and closed back and having the opposite sides of its skirt slashed, an outside reinforcing strip attached at the edges of the skirt and around the slashed portions, said strip and skirt having their respective edges turned inwardly and secured together, and a binding member attached at the upper edge of the reinforcing strip.

1,473,790. TATTING SHUTTLE. HALLET E. KWAPIL, Racine, Wis. Filed Dec. 23, 1922. Serial No. 608,641. 3 Claims. (Cl. 96—22.)



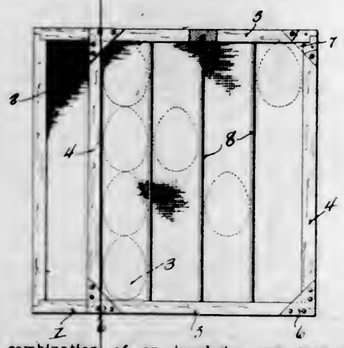
1. The combination of a pair of shuttle plates, a pair of spacers, extending from one plate to the other, one of said plates having an aperture therethru between said spacers, a key adapted to be inserted thru said aperture and means on the other of said plates co-operating with said key on the rotation thereof, to cause said plates to approach each other between said spacers and the ends of one plate to separate from the ends of the other plate.

1,473,791. APPARATUS FOR FORMING CLAY POTS. CLAUDE H. MCCUTCHEON, Kittanning, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Dec. 1, 1921. Serial No. 519,266. 4 Claims. (Cl. 25—27.)



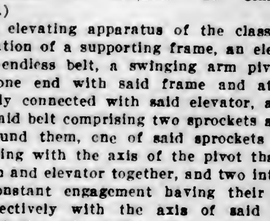
1. In combination in apparatus for forming clay pots, a base plate, a plurality of side wall members mounted slidably on the base plate for radial movement, a downwardly extending core in the upper portion of the cavity formed by the side wall members, a framework for holding the core against upward movement, power means for moving the base with the side wall members thereon upward, and cooperating means on the framework and side wall members for causing an inward movement of said members when such side members are moved upward by said base plate.

1,473,792. EGG TURNER. JOHN MATHEUS and HERBERT SCHEDDIN, Milwaukee, Wis. Filed May 7, 1923. Serial No. 637,124. 1 Claim. (Cl. 119—44.)



The combination of an incubator egg tray having side bars, of an egg turner having side members adapted to slide upon said side bars, downwardly projecting lugs carried by said members and slidably engaging the inner faces of said side bars, and a plurality of transverse members carried by said members and spaced apart a distance to accommodate the eggs, whereby said turner may be slid across said tray to give the eggs a partial rotary motion.

1,473,793. CABINET. FRANK W. MAZSICK, North Milwaukee, Wis. Filed Apr. 16, 1923. Serial No. 632,341. 3 Claims. (Cl. 211—7.)



1. A cabinet including a door hinged to the body portion of the cabinet adjacent one edge, a shelf, and means rigid with said shelf and projecting therefrom and hinged to said door adjacent its bottom edge, whereby said shelf is adapted to stand vertically upon the inner side of said door or to project from the outer side of said door at substantially right angles thereto.

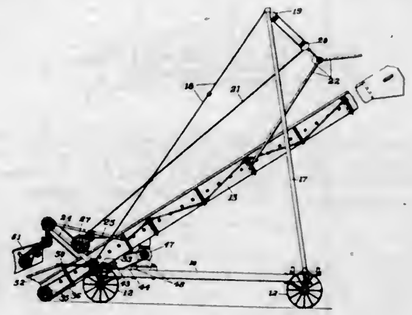
1,473,794. COMBINED FIXTURE SUPPORT AND LOOM FASTENER. EDWARD W. MOON, Youngstown, N. Y. Filed June 30, 1921. Serial No. 481,547. 5 Claims. (Cl. 240—85.)

1. A fixture-support, comprising a crow foot having a socket into which an electric chandelier is to be secured, means for fastening said crow foot to a ceiling, legs connecting said means with said socket, and a loom clamp adjustably applied to said socket.

1,473,795. ELEVATOR CONVEYER. LEONARD B. NEIGHBOUR, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Mar. 12, 1920. Serial No. 365,137. 15 Claims. (Cl. 198—118.)

1. In an elevating apparatus of the class described, the combination of a supporting frame, an elevator comprising an endless belt, a swinging arm pivotally connected at one end with said frame and at its other end pivotally connected with said elevator, and driving means for said belt comprising two sprockets and a chain passing around them, one of said sprockets having its axis coinciding with the axis of the pivot that connects the said arm and elevator together, and two inter-meshing gears in constant engagement having their axis coinciding respectively with the axis of said last-named sprocket and the axis of the pivot that connects said arm with the frame.

6. An elevator conveyer comprising a frame, a rock shaft mounted on a horizontal axis on said frame, a stub shaft revolubly mounted in one end of said rock shaft, a gear fixed on said stub shaft in an offset formed in the rock shaft, arms fixed on said rock shaft and extending radially therefrom, an elevator pivotally mounted



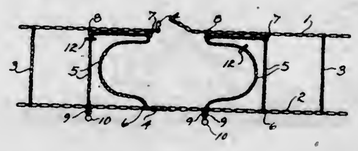
between said arms, means for swinging said elevator upwardly about its pivotal connection with said arms into inclined position above said frame, and driving connections between said gear and said elevator.

1,473,796. BRACELET OR LIKE ARTICLE OF JEWELRY. ALMYR L. NEWMAN, Warwick, R. I., assignor to A. L. Newman & Company, Cranston, R. I., a Partnership consisting of Almyr L. Newman, Augustus L. Newman, Andrew O. Burgess, and Henry Ziruth. Filed Mar. 8, 1922. Serial No. 542,114. 5 Claims. (Cl. 59—80.)



1. An article of jewelry comprising a series of box-like link-members having openings in their sides, connecting-elements having parallel legs extending through the openings in adjacent link-members and provided with means at their ends for engaging the edges of the openings, and means on the link-members adapted to be inserted between the legs on the connecting members to hold the latter in locking engagement with the edges of the openings in the link-members.

1,473,797. TIRE CHAIN. LELAND B. SERVIS, HERMAN P. RANDALL, and S Q SHANNON, Los Angeles, Calif.; said Randall and said Shannon assignors to said Servis. Filed July 18, 1922. Serial No. 575,789. 10 Claims. (Cl. 152—14.)



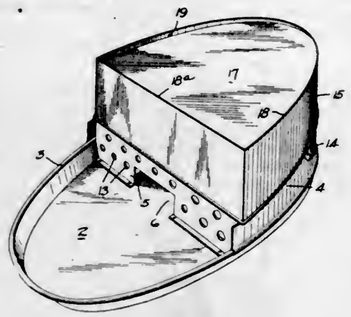
3. In a tire chain, a circumferentially extending member for each side of a tire, a transverse member connected to one of said circumferential members and loosely connected to a second circumferential member whereby the member may be slacked, a spring for placing tension on said transverse member whereby the chain may be tightened upon rotation of the tire.

1,473,798. STYLUS ATTACHMENT FOR CAMERAS. CHARLES F. SPEIDEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 16, 1922. Serial No. 582,123. 3 Claims. (Cl. 95—1.1.)



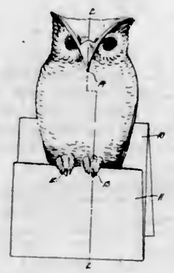
1. The combination with a two part camera body, one of said parts embodying a pair of nested flanged plates secured together but having their flanged portions spaced apart to provide a light seal element for receiving a flange on the other body part, of a stylus holding bracket having a body portion secured between said spaced flanges and arms extending through the outer plate.

1,473,799. HOT-FOOD TRAY. CHARLES STIRN, San Francisco, Calif. Filed June 9, 1921. Serial No. 476,367. 3 Claims. (Cl. 126—265.)



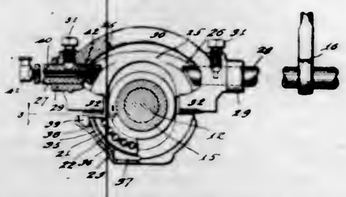
1. A hand tray having a heating chamber, with a diametrical wall across the tray, means insertable in said wall for heating the chamber, and removable cover means for the tray.

1,473,800. CARD CUT-OUT. ZAIDA B. WEBB, New Haven, Conn. Filed Oct. 2, 1922. Serial No. 591,718. 1 Claim. (Cl. 40—149.)



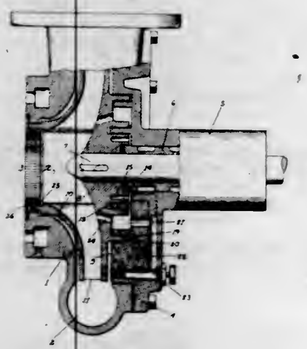
A card cut-out, comprising a card folded to form a flap, said card, including a figure, slotted to form projections beneath which the edge of the flap may extend, and a portion of the card adapted to be turned rearward, forming an easel support therefor.

1,473,801. CLUTCH-ACTUATING THRUST BEARING. SAMUEL O. WHITE and ARMYDIS E. STURDIVANT, Muncie, Ind., assignors to Warner Gear Company, Muncie, Ind., a Corporation of Indiana. Filed Dec. 13, 1919. Serial No. 344,744. 6 Claims. (Cl. 192—110.)



1. In a clutch-actuating thrust bearing, the combination of a clutch-releasing sleeve, a ball thrust bearing one of the races of which is mounted on said sleeve, a carrier in which the other ball race of said bearing is non-rotatably mounted, lugs on said carrier by which it is hung so that it can slide, axially of said sleeve, two alined shafts transverse to said sleeve and spaced apart to receive the carrier between them, said lugs resting on the adjacent ends of said shafts, a yoke carried by said shafts and fixed to one of them and having fingers co-operating with said carrier, and a clutch pedal operating the shaft to which said yoke is fixed.

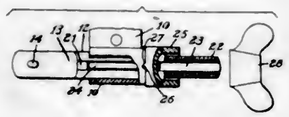
1,473,802. CENTRIFUGAL PUMP WITH SELF-CENTERING RUNNER. WALTER R. WOOCK, HERBERT J. WOOCK, and ERIC M. WOOCK, Lodi, Calif., assignors to Superior Manufacturing Company, Lodi, Calif., a Corporation. Filed Oct. 26, 1921. Serial No. 510,503. 5 Claims. (Cl. 103—112.)



1. A centrifugal pump comprising a casing, a runner turnably mounted therein, and a pair of annular and concentric chambers separated from each other and formed between the runner and the casing on the side thereof opposite to the intake of the pump, one of said chambers communicating with the vacuum chamber of the runner and both chambers communicating with the pressure chamber of the pump.

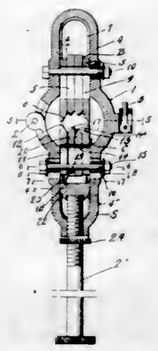
1,473,803. HACKSAW. JOHN A. ADELL and ARTHUR H. STARRETT, Athol, Mass., assignors to The L. S. Starrett Company, Athol, Mass., a Corporation of Massachusetts. Filed Feb. 3, 1921. Serial No. 442,230. 6 Claims. (Cl. 145—34.)

1. In a saw, a frame having a spindle bearing, a blade clamping spindle adjustable in said bearing, a thimble mounted on said spindle beyond said bearing and movable into locking engagement therewith, means adjustable on said spindle beyond said bearing for holding said thimble in engagement with said bearing, and a blade spring disposed longitudinally of said spindle and fixed



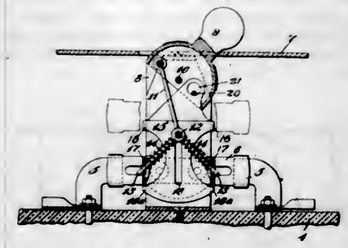
to said thimble at one end and engaging said bearing at its opposite end for maintaining the position of said spindle relative to said bearing when the thimble is disengaged from the bearing and the spindle released.

1,473,804. CRANK PIN AND SHAFT TRUING TOOL. CHARLES N. ATHERTON and ALBERT L. SALTER, Wichita, Kans. Filed Nov. 18, 1920. Serial No. 424,983. 27 Claims. (Cl. 82—4.)



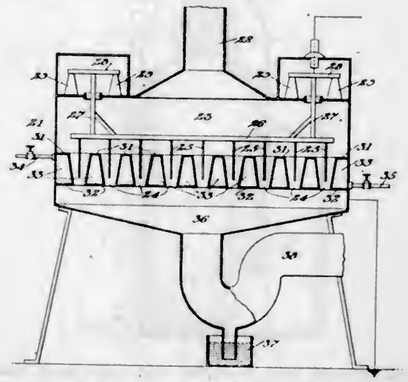
1. In a hand lathe, a stock provided with a cutter, a bearing for accurately guiding said stock around the work, said bearing being made up of a plurality of relatively slidable plates, and co-acting means between the plates to prevent relative lateral movement thereof.

1,473,805. TUMBLER SWITCH. HAROLD G. BAXTER, Baldwin, N. Y., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 24, 1920. Serial No. 412,560. 7 Claims. (Cl. 200—76.)



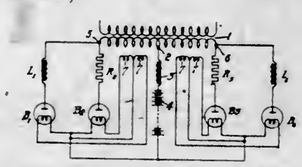
1. In combination, in an electric switch, a base, a movable contact member, a pair of stationary contact members coacting with the movable contact member, a frame, a movable handle mounted in the frame, a bracket slidably mounted in the frame and connected to the handle, and means on the bracket for positively engaging the movable contact member to move it out of engagement with the stationary contact members.

1,473,806. APPARATUS FOR SEPARATING TAR FROM GASES. LINN BRADLEY, East Orange, N. J., assignor to Research Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 5, 1918. Serial No. 265,420. 2 Claims. (Cl. 183—7.)



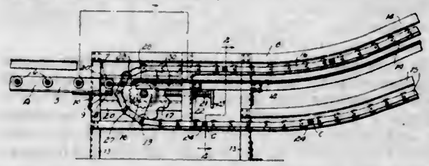
1. Apparatus for removing tar from gas, comprising a treater chamber, a plurality of treater tubes and means for externally heating the tubes sufficiently to cause tar precipitated thereon to flow, the tubes being sufficiently short to prevent a substantial heating of the gas in its passage therethrough and the diameter of the tubes increasing from bottom to top in proportion to the variation in the dielectric strength of the gas during its passage through the tubes.

1,473,807. RECTIFIER. EDGAR W. BREISCH, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 5, 1920. Serial No. 422,018. 2 Claims. (Cl. 175—363.)



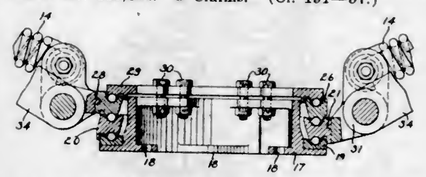
1. The combination with a single phase source of alternating current, of a pair of asymmetrical conductors connected in parallel therewith, a reactance device in series with one of said asymmetrical conductors, and means for impressing upon said last mentioned asymmetrical conductor and said reactance device a higher alternating current voltage than that impressed upon the other asymmetrical conductor.

1,473,808. CONVEYER. IRA L. BRETZFELDER, St. Louis, Mo., assignor to Alvey Manufacturing Company, St. Louis, Mo. Filed Aug. 29, 1921. Serial No. 496,288. 3 Claims. (Cl. 198—168.)



1. In a conveyer having a pusher-bar having a package engaging device mounted thereon, said package engaging device comprising an inner bearing member mounted on said pusher-bar, an outer bearing member encircling said inner bearing member, anti-friction members disposed between said bearing members, and means detachably secured to said pusher-bar on opposite sides of said package engaging device to prevent movement thereof longitudinally of said pusher-bar.

1,473,809. TROLLEY BASE. LELAND F. BURNHAM, Fairport, N. Y., assignor to R. D. Nuttall Company, a Corporation of Pennsylvania. Filed May 14, 1921. Serial No. 469,442. 5 Claims. (Cl. 191—57.)



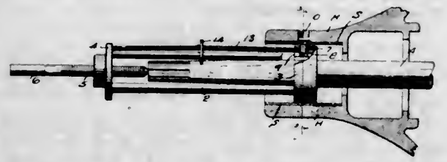
1. A trolley base comprising, in combination, a bottom member, two superimposed rotatable members, a top member, and anti-friction bearings interposed between said members, the two rotatable members each being adapted to support a trolley pole.

1,473,810. VEHICLE WHEEL. WALTER CAMBRIDGE, Berwyn, Ill. Filed Sept. 8, 1923. Serial No. 661,602. 6 Claims. (Cl. 301—63.)



6. The combination with a pneumatic tire having a raised tread portion, of a metal wheel for said tire, the latter having a rim formed of separable sections completely incasing said tire except for the tread portion thereof, and heat insulating material interposed between said rim and the sides of said tire to protect the latter from external heat and the inner periphery of said tire contacting directly with said rim to permit of radiation of internal heat.

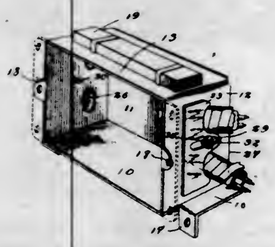
1,473,811. SLEEVE PULLER. EDWIN B. CANTRELL, San Francisco, and GEORGE E. MILLER, Oakland, Calif. Filed Sept. 30, 1920. Serial No. 413,849. 4 Claims. (Cl. 29—88.2.)



1. A sleeve puller having an end portion, insertable into the sleeve to be pulled, means to interlock with the sleeve so that it may be pulled from its housing, the

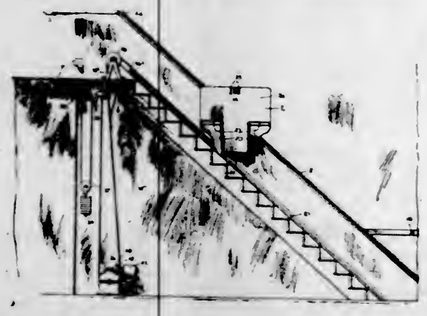
puller having means to engage a supporting element, independent of the puller, for facilitating extraction of the sleeve, and spring means for automatically projecting the interlocking means.

1,473,812. OUTLET-BOX CONSTRUCTION. NILS T. CLEMENTS, Superior, Wis. Filed May 12, 1920. Serial No. 380,737. 3 Claims. (Cl. 247—16.)



2. In a metal box construction a side element, a second element having an edge abutting the inner face of the first element close to its edge, the first element being formed with a slit adjacent the inner surface of the second element, the metal at the inner side of the slit being inset over the abutting plate and the metal at the outer side of the slit being expanded and bent outwardly and inwardly over the outer face of the second named and abutting element.

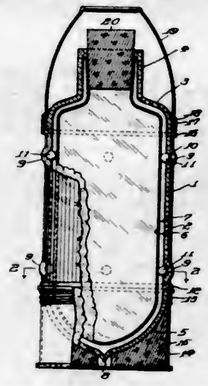
1,473,813. ELEVATOR FOR STAIRWAYS. CLARENCE CULLEN CRISPEN, Harrisburg, Pa. Filed Oct. 4, 1921. Serial No. 505,328. 12 Claims. (Cl. 187—12.)



6. In combination, an inclined rail, said rail being channel shaped and each side of the rail having its free edge formed with an inwardly extending flange, rollers between each inwardly extending flange and the bottom of said rail, axles supported by said rollers, a car body supported by said axles, means for drawing said car upwardly upon said rail, and means whereby upon the means for drawing said rail upwardly upon the track becoming disengaged the car will be held against downward movement upon said rail.

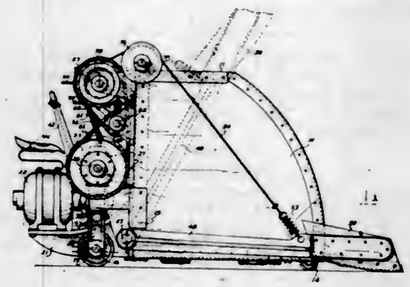
1,473,814. RECEPTACLE. VICTOR DURAND, Jr., Vineland, N. J. Filed Aug. 13, 1921. Serial No. 491,915. 6 Claims. (Cl. 215—13.)

1. A vacuum receptacle made substantially entirely of glass and comprising an inner container of relatively thin glass, a relatively heavy or thick outer casing of glass, surrounding and substantially enclosing said inner container, integrally connected therewith at the mouth of said inner container and elsewhere spaced from said inner container to form a vacuum chamber between said inner container and said outer casing and surrounding said inner container, and a closure for the



mouth of said inner container, said outer glass casing being strong enough to substantially withstand the usage to which metal-covered vacuum receptacles are subjected.

1,473,815. BOX-CAR UNLOADER. RUDOLPH C. FRANCKE, Milwaukee, Wis. Filed Dec. 16, 1920. Serial No. 431,146. 13 Claims. (Cl. 214—78.)



1. In a box-car unloading machine, the combination of an automotive vehicle having a hopper, said vehicle being movable into the box-car and within the same and having propelling means permitting its forward, backward or turning movement within the box-car, and including traction wheels, means for varying the angularity of said traction wheels to produce a braking effect, and means, including a scoop, for filling the hopper with charges of the material within the car as the vehicle moves about within the car.

1,473,816. RECORDING DEVICE FOR TAXIMETERS. JULIUS GLUCK, New York, N. Y., assignor to American Taximeter Company, New York, N. Y., a Corporation of New York. Filed Apr. 18, 1922. Serial No. 555,172. 31 Claims. (Cl. 235—30.)

1. A recording device for taximeters including in combination with the meter drive and the flag shaft of the meter, a marking unit operated by the meter drive and including a pair of pencils, a tape adapted to be engaged by said pencils, tape feeding means, and means controlled by said flag shaft for causing the pencils to alternately engage with the tape.

15. A recording device for taximeters including a combination with the meter casing, of a cover hinged to the meter casing for housing said recording device, a tape

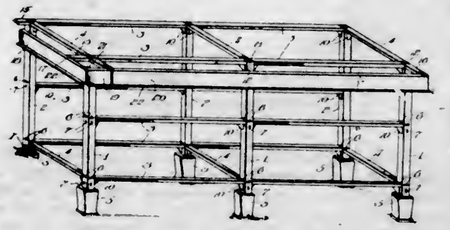
arranged within the housing, and means actuated by the relative movement of the cover to the meter casing to produce a record on said tape.



24. A recording device for taximeters including the meter and its flag shaft, a recording unit comprising a tape and a plurality of pencils cooperating therewith, tape feeding means, and means for controlling said pencils from the flag.

27. A recording mechanism of the class described including an unprinted and uncalibrated tape and means for automatically providing said tape with designations indicating time, speed and distance; and means for decoding the designations.

1,473,817. METAL FRAME AND INTERLOCKING JOINT. HATHAWAY M. GORSLINE, Niles, Mich., assignor to Kawneer Manufacturing Company, Niles, Mich., a Corporation of Michigan. Filed Nov. 15, 1919. Serial No. 338,250. 21 Claims. (Cl. 189—36.)

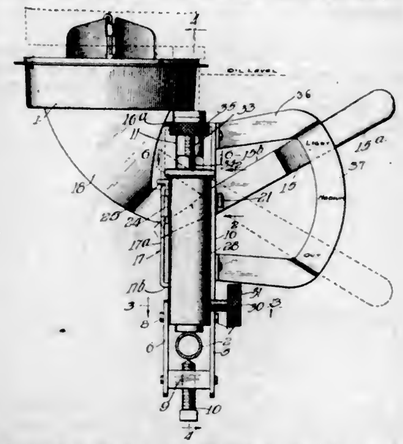


1. A frame comprising a supporting member having elongated openings disposed at an angle to each other, and a connecting member having portions detachably fitting in said openings for connecting said members together, said openings being longer than said portions for permitting movement of the portions to and from fitting position.

1,473,818. PRIMING MIXTURE FOR PROPELLANT EXPLOSIVES. CLARENCE I. B. HENNING, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 17, 1920. Serial No. 424,692. 5 Claims. (Cl. 52—4.)

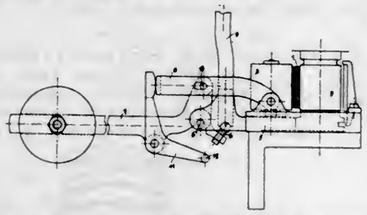
1. An igniting mixture for small arms ammunition containing hexanitrodiphenylamine, said mixture becoming ignited but not detonating when struck lightly, and being adapted to ignite a propellant explosive.

1,473,819. OIL STOVE. RUDOLPH HOFFMAN, Kankakee, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a Corporation of New York. Filed July 19, 1919. Serial No. 311,953. 16 Claims. (Cl. 158—42.)



3. In an oil stove, the combination with an oil supply pipe and a burner, of means for raising and lowering the burner, and means for conducting a supply of oil to the burner comprising a sectional pipe, means providing a metallic liquid seal for sealing the joint between said pipe sections, an auxiliary chamber adapted to receive the metallic liquid, and valve means for closing said chamber.

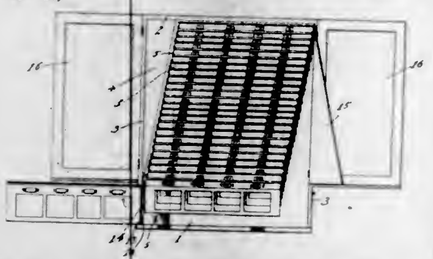
1,473,820. DEVICE FOR OPERATING THE SPINDLES OF SPINNING AND TWISTING MACHINES. HENRI JEAN LAROCHE, Paris, France, and LOUIS MONTIGNY, Ghent, Belgium. Filed Jan. 18, 1923. Serial No. 613,562. 1 Claim. (Cl. 118—48.)



In a spinning and twisting machine, a plurality of spindles arranged in a row and having a friction roller at their base, an endless belt arranged to travel in a vertical plane along the whole row of friction rollers of each bench of the machine, and means for driving said belt continuously at a suitable speed and keeping same under tension, in combination with a plurality of devices each comprising a carrier slidably supported on the spindle carrying member and fitted with a vertical roller facing the spindle friction roller on the opposite side of the belt; a weighted rocking lever having one arm provided with lugs carrying a pin; a pair of connecting members between aforesaid carrier and said pin, extending at right angles to the line of travel of the belt and capable of a limited movement in said direction in relation to such pin; means connected to a thread-breaking device of known type for causing the rocking-lever normally to apply the pressure roller against the belt through said connecting members; a weighted crank lever bearing on the ends of such connecting members opposed to the aforesaid carrier; and an adjustable brake mounted on said carrier and suitably positioned thereon to act on the aforesaid friction-roller of the

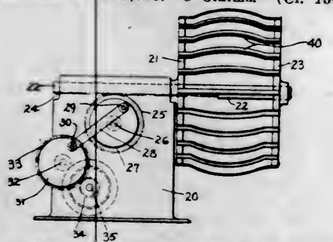
spindle on the pressure roller being moved away from the belt through the aforesaid means permitting the rocking lever to impart the necessary movement to the carrier, through the connecting members, substantially as described.

1,473,821. CARD RACK. HUGH M. LAWTON, Bellevue, Ky., assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 28, 1921. Serial No. 463,911. 2 Claims. (Cl. 45—2.)



2. In a card rack for the purpose described, the combination of a cabinet having one side opened by doors, a hinge panel within said cabinet having a triangular shape tapering upwardly and set at a slant to the sides of the cabinet, hinge plates mounted in a series beginning at the top of the hinge panel and thence by step outwardly from the back of the cabinet and downwardly toward the base, card trays hinged to said plates to as to overlap each other in a like series, said card trays being adapted to receive cards thrust into the exposed portions thereof free of lap by the trays next below, and triangular board hingedly mounted within the cabinet and adapted to bear against the unhinged edges of the trays to retain them in place in a compact body within the cabinet, said doors of the cabinet comprising side door members and a fall door hinged to the base of the cabinet and retainable in a position to abut the said triangular board.

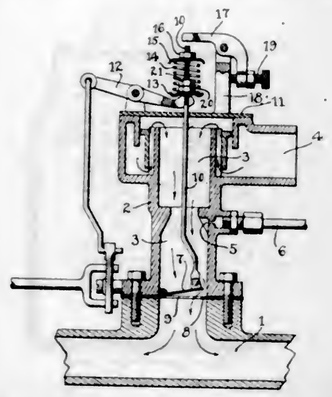
1,473,822. DEVICE FOR EXPANDING ENDLESS BANDS. GEORGE H. LEWIS, Chicopee Falls, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Jan. 8, 1921. Serial No. 435,838. 8 Claims. (Cl. 154—10.)



1. An expansible and contractible former for use in tire building comprising opposed heads, a plurality of separate members connected between said heads, and means for causing said heads to move toward or away from each other whereby said members are caused to bend.

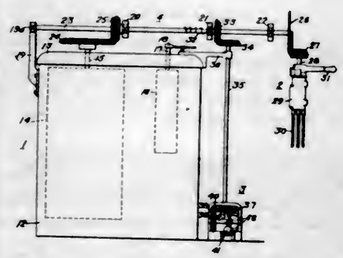
1,473,823. AUTOMATIC THROTTLE GOVERNOR. HERMAN A. LEWIS, Carson City, Mich., assignor of one-half to M. Jay Miner, Butternut, Mich. Filed Mar. 21, 1921. Serial No. 454,310. 4 Claims. (Cl. 137—152.)

1. An automatic throttle governor comprising, a throttle valve in the inlet passage of an engine acted upon by the suction therein to close it, a rod attached to said valve and extending outside of said passage, a spring acting upon said rod to open the valve, a manually



operable lever having a movable end adjacent said rod and stop means on said rod to engage the movable end of said lever to limit the closing movement of the valve.

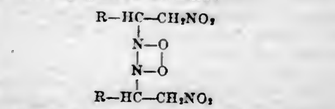
1,473,824. CONTROL APPARATUS. JOHN S. MCWHIRTER, New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 9, 1919. Serial No. 302,663. 16 Claims. (Cl. 192—2.)



1. The combination with a multi-position control element, of a foot-operated member, means comprising a pawl-and-ratchet device for ensuring step-by-step movement of said element in a certain direction, and means for automatically effecting return movement of said element.

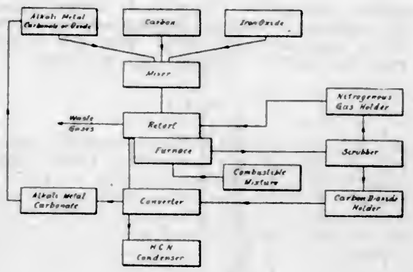
1,473,825. EXPLOSIVE FOR USE IN BLASTING CAPS. JOHN MARSHALL, Swarthmore, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 5, 1921. Serial No. 505,599. 8 Claims. (Cl. 52—3.)

1. An explosive charge comprising the normally solid product obtainable by interaction between an olefine hydrocarbon and nitrogen sesquioxide and having probably the following general formula:—



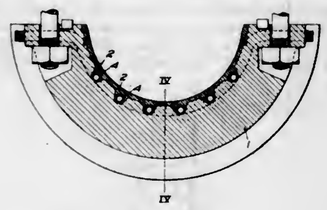
where R represents a hydrogen or alkyl radical.

1,473,826. METHOD OF FIXING NITROGEN. FLOYD J. METZGER, New York, N. Y., assignor, by mesne assignments, to California Cyanide Company, Incorporated, a Corporation of Delaware. Filed Feb. 6, 1920. Serial No. 356,732. 4 Claims. (Cl. 23—1.)



4. A method of fixing nitrogen, which comprises treating a mixture containing an alkali metal compound and carbon successively while in the solid phase with nitrogenous gases and carbon dioxide substantially free from nitrogen, employing combustion gases to heat the mixture during contact of the nitrogenous gases therewith, and recovering nitrogenous gases and carbon dioxide from the combustion gases for use in the successive treatments.

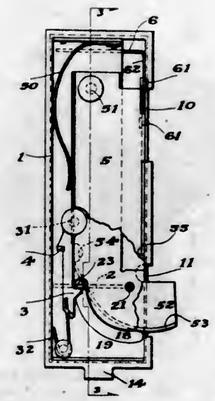
1,473,827. FLUID-COOLED BEARING. CHESTER B. MILLS, East McKeesport, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 4, 1918. Serial No. 226,758. 12 Claims. (Cl. 64—28.)



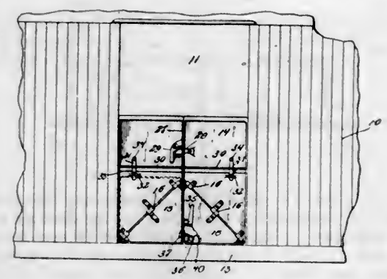
1. A fluid-cooled bearing comprising a main body member provided with a plurality of spaced grooves, fluid-containing pipes disposed in said grooves, and a layer of bearing metal integral with said main body member and providing a bearing surface thereon and adapted to hold said pipes in position in said grooves.

1,473,828. VENDING MACHINE. HARRY R. MITCHELL, Seattle, Wash., assignor to Mitchell Products Company, Seattle, Wash., a Corporation of Washington. Filed Aug. 22, 1922. Serial No. 583,656. 9 Claims. (Cl. 914—65.)

3. In a coin-controlled device, in combination with a casing having a coin slot and a rejecting slot, a coin chute pivoted within the casing having its upper end in registry with the coin slot, and having its opposite end projecting from the rejecting slot, said chute having continuous coin guides leading from the coin slot to the rejecting slot, and having means for intercepting a coin of proper size.

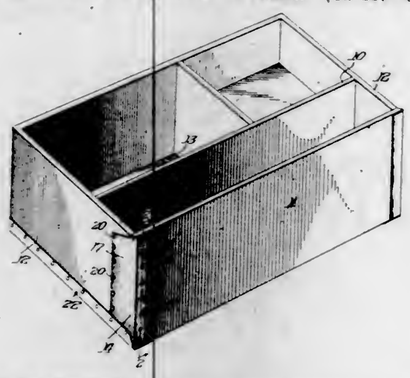


1,473,829. CAR DOOR. OLE MOMB, West Duluth, Minn. Filed June 10, 1921. Serial No. 476,519. 1 Claim. (Cl. 20—29.)



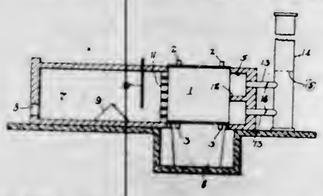
A door comprising a pair of main doors, a supplemental door of triangular formation hingedly secured along its hypothenuse to the lower corner of each of the main doors, a flange formed on the meeting edges of all the doors and the meeting flanges of the supplemental doors being provided with openings adapted to be aligned when the doors are closed, means for pivotally securing the opposite lower corners of each of the main doors to a support, a bolt slidingly mounted upon one of the supplemental doors and engageable with the sill of the door opening, a lever pivotally secured to the bolt carrying door, a tongue carried by the lever for engagement with the openings when the bolt is in locking position a cam member carried by the lever for disengaging the bolt from the sill when the tongue is disengaged from the supplemental doors, a pivoted dog secured to the bolt carrying door for engaging a recess in the lever for retaining the lever in a locked position, and said lever being provided with a recess arranged below the first mentioned recess to retain the lever in a position to lock the bolt carrying door only.

1,473,830. REENFORCING MEANS. CHARLES MOORE, Chicago, Ill., assignor to C. A. Taylor Trunk Works, Chicago, Ill., a Corporation of Illinois. Filed Nov. 12, 1921. Serial No. 514,487. 3 Claims. (Cl. 217—69.)



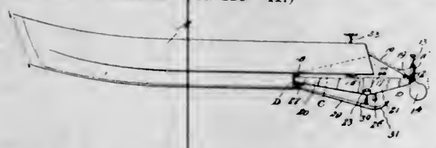
1. In combination, a drawer, integral reenforcing means for said drawer, said reenforcing means comprising a portion lying flat against one side of said drawer, a bent over portion lying parallel with and in contact with said first mentioned portion, a second bent over portion lying in contact with an adjacent side of said drawer, one of said bent over portions having a tongue bent over into contact with a third side of said drawer.

1,473,831. FURNACE. CHARLES N. MORRISON, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Oct. 11, 1919. Serial No. 330,048. 6 Claims. (Cl. 196—9.)



3. In a furnace for destructive distillation, the combination of a combustion chamber; a heating chamber leading therefrom; a plurality of containers in said heating chamber through which the material to be treated is passed, said containers being disposed in parallel relation relatively to the flow of heating gases; a checkerwork wall interposed between said chambers; a stack; a plurality of flues connecting the farther end of said heating chamber with said stack, said flues being likewise in parallel relation and leading from points in such end spaced in each of two transverse directions; and independent dampers for said flues.

1,473,832. BOAT PROPELLER. JOHN D. PARK, Jr., Cincinnati, Ohio. Filed Aug. 4, 1922. Serial No. 579,732. 7 Claims. (Cl. 115—41.)



1. In a boat, a pair of tunnel members hingedly connected with each other at their meeting ends and having their other ends hingedly connected with the boat hull, a bearing member carried by one of the tunnel members, a propeller carrying shaft journaled through said bearing member and flexibly connected with the main drive shaft, and a shoe pivoted upon the bottom of the hull and extending below said propeller for elevating said tunnel members when engaging the bottom in shoal water.

1,473,833. DOORSTOP. MICHAEL J. SASGEN, Chicago, Ill., assignor to Grand Specialties Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 6, 1922. Serial No. 534,287. 3 Claims. (Cl. 292—338.)



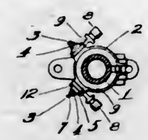
2. In a device of the kind described, a flat strut adapted to be pivoted at one end to swing up and down edgewise, a shoe on the free end of the strut, the shoe provided with a gripping surface extending beyond the flat faces of the strut, and curved in the direction of the swinging movement of the strut, as and for the purpose specified.

1,473,834. DOORSTOP. MICHAEL J. SASGEN, Chicago, Ill., assignor to Grand Specialties Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 11, 1922. Serial No. 587,333. 10 Claims. (Cl. 292—338.)



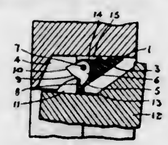
1. In a door stop, a vertically swinging lever for engagement with the floor to brace the door, a pivoted shoe on the free end of the lever, a rubber envelope on the shoe, the shoe having a lateral projection for convenience in lifting the strut, and said projection on the shoe covered with a yielding material, as and for the purpose specified.

1,473,835. HOOK FASTENING FOR DERRICK BRACES. FOKKO BRANDT, Kansas City, Mo., assignor to The Brandt & Krell Engineering Company, Kansas City, Kans., a Corporation of Kansas. Original application filed Oct. 18, 1920, Serial No. 417,812. Divided and this application filed June 19, 1922. Serial No. 569,511. 8 Claims. (Cl. 287—54.)



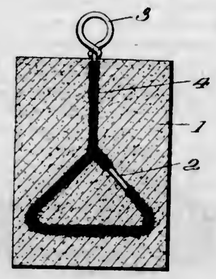
4. The combination of a part having a projecting bolt, a second member provided with a notched head engaging said bolt, a nut secured on the bolt and a washer fitting on the bolt and interposed between the said head and nut: said washer being provided with an opening, a rib on said head for engagement with the opening in said washer, and a second rib on said head for engagement with a marginal portion of said washer.

1,473,836. DOORLATCH. THOMAS J. COO, Toronto, Ontario, Canada, assignor to Victory Automobile Accessories Limited, Toronto, Canada, a Corporation of Ontario. Filed Nov. 13, 1920. Serial No. 423,840. 3 Claims. (Cl. 292—340.)



1. In a door latch, the combination with the latch bolt and keeper, of a member pivotally supported in the keeper formed with a beveled surface diverging from the pivot adapted to engage only the flat outer face of the latch and a spur projection at the side nearest the door, said spur engaging the outer face of the latch at a point to the outside of the pivot and holding the beveled surface of the pivotal member in wedging contact with the latch.

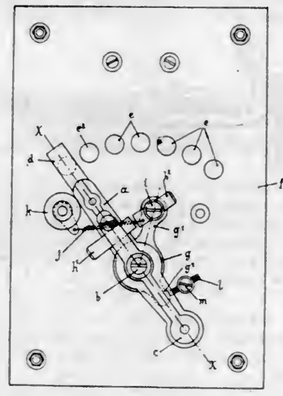
1,473,837. FIRE KINDLER. JOHN H. DOUGLAS, Bradford, Pa. Filed June 21, 1922. Serial No. 569,817. 8 Claims. (Cl. 44—34.)



1. As an article of manufacture, a fire kindler composed of a sand base, a binder for the sand, and a wire carried within the kindler wrapped with waste, for the purpose described.

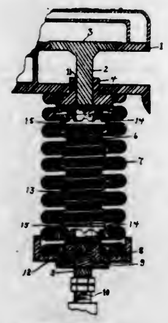
2. As an article of manufacture, a fire kindler composed of a sand base, and a cement binder for the sand, for the purpose described.

1,473,838. LEVER ARM FOR SWITCHES, RHEOSTATS, AND LIKE ELECTRIC DEVICES. JEAN DRIESSEN, Paris, France. Filed July 6, 1921. Serial No. 482,775. 1 Claim. (Cl. 200—10.)



In an electric switch, a series of stationary contacts, a pivoted switch-arm having a frictional member movable over the contacts, a bent lever pivoted on the axle of the switch-arm, carbons carried by the switch arm and lever adapted to electrically connect the same, a return spring connected with the lever to maintain contact between the carbons during the movement of the switch arm over the contacts, and an adjustable stop for engaging the lever, whereby the carbons will be separated and the circuit broken when the frictional member is still upon one of the contacts.

1,473,839. VALVE-STEM AND GUIDE LUBRICATOR. WILLIAM EDSON, Harrison, N. Y. Filed Nov. 18, 1921. Serial No. 516,182. 6 Claims. (Cl. 74—86.)

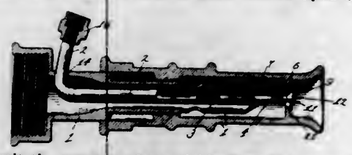


4. As a new article of manufacture, a lubricating element for valve stems, composed of self sustaining inherently elastic material formed to embrace a valve stem within its spring and adapted upon compression to expel oil for lubricating the stem and upon release of compression to return to normal position and draw in oil, and a tensioning spring connected to said lubricating element.

1,473,840. DISINFECTING NOZZLE. HECTOR FALLETTA, San Francisco, Calif. Filed Mar. 10, 1920. Serial No. 365,067. 2 Claims. (Cl. 299—140.)

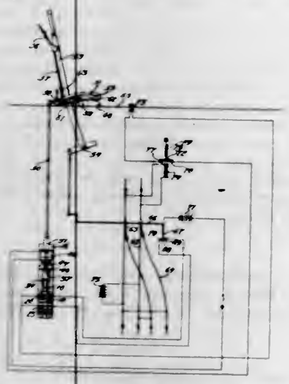
1. The combination with a nozzle comprising inner and outer casing members forming a mixing chamber within the forward end thereof, of a tubular member centrally mounted within the inner casing and extending outwardly

therethrough into the mixing chamber for supplying a liquid germicide thereinto to be mixed with water passing therethrough from the inner casing; a dispensing tip threaded into the forward end of the tubular member, said tip extending outwardly through the outlet of the chamber and nozzle; flattened sides formed upon said tip



to permit the passage of germicide from the tubular member into the mixing chamber; and a deflecting cone formed upon the outer end of the tip and positioned outwardly adjacent the outlet of the mixing chamber and nozzle for directing the mixed water and germicide projected therepast into a spray.

1,473,841. SAFETY DEVICE FOR TRACK SWITCHES AND SIGNALS. ALDUS FISHER, Malvern, Pa. Filed Dec. 9, 1921. Serial No. 521,149. 16 Claims. (Cl. 246—146.)



1. A device of the character described including signal controlling circuits; a support; a cylindrical circuit controller rockably mounted on the support; and means movable on the support in the direction of the length of the circuit controller for actuating it to make and break the circuits, substantially as described.

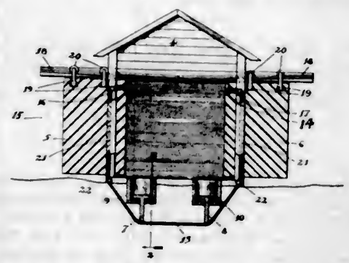
1,473,842. STRUCTURAL ELEMENT. LOUIS T. FREDERICK, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 10, 1918. Serial No. 244,196. 2 Claims. (Cl. 20—0.5.)



1. In I-beam, U-beam, T-beam or the like comprising a fibrous sheet material impregnated with a hardened phenolic condensation product as a binder.

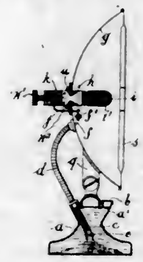
1,473,843. SELF-OPENING GARAGE DOOR. ADAM FUERSTENBERG, Watson, Saskatchewan, Canada. Filed Dec. 28, 1921. Serial No. 525,528. 1 Claim. (Cl. 268—8.)

In combination with a doorway a pair of sliding doors therefor, said doors hung for movement along the opposite ends of a track which is inclined downwardly from either end toward the center, a pair of wheelways extending under and to either side of said doorway each of said wheelways having a depressible member of T shape in cross-section, a flexible member provided at either end with a resilient element one of said elements being attached to each door near the upper, inner corner thereof,



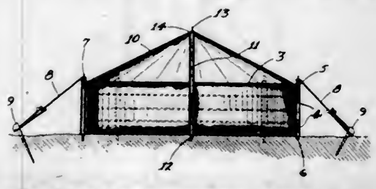
said flexible member being trained over pulleys arranged in vertical housings at either side of said doorway and extends under said wheelways for actuating the doors to open position when weight is placed on the depressible members, the inclination of said track causing the doors to close by gravity when the weight is removed.

1,473,844. GAS-HEATING RADIATOR. ANDRÉ GARBARINI, Courbevoie, France. Filed Nov. 17, 1922. Serial No. 601,654. 8 Claims. (Cl. 126—96.)



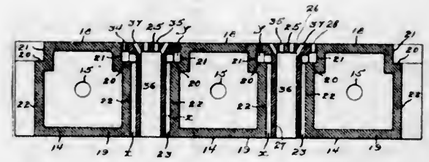
1. A hydrocarbon vapor heating radiator comprising a stand forming a reservoir for liquid fuel, a parabolic mirror pivoted on said stand, a burner for the hydrocarbon vapor fixed to the center of the mirror, an incandescent device on said burner, an ascension tube for the liquid adapted to permit a variable inclination of the mirror, and means to secure ascension of the liquid fuel from the stand to the burner.

1,473,845. COLLAPSIBLE GRANARY. AMBROISE GARDON, Meacham, Saskatchewan, Canada. Filed Sept. 5, 1922. Serial No. 586,299. 1 Claim. (Cl. 20—1.21.)



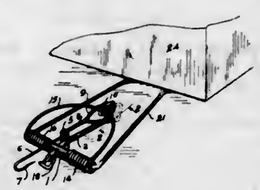
A collapsible granary comprising a flexible water-proof body member, said body member being re-inforced and continuous, supporting posts arranged upon said body member, means for anchoring said posts in upstanding position, said posts having reduced end portions, a flexible water-proof roof member connected with said body member, said roof member having an opening formed therein and re-inforced around its edges, a cover member carried at one edge of said opening and adapted to be secured along the remaining edges thereof and a centre post for said roof member.

1,473,846. GRATE STRUCTURE. JOHN G. GIBSON, Jr., Atlantic City, N. J. Filed Aug. 17, 1921. Serial No. 492,940. 6 Claims. (Cl. 126—163.)



6. A grate structure including hollow supports having T-shaped ends abutting each other and provided with ledges; a top plate positioned upon the ledges between the supports and provided with air passages, and a continuous skirt flange depending from the plate between the supports to form air passages.

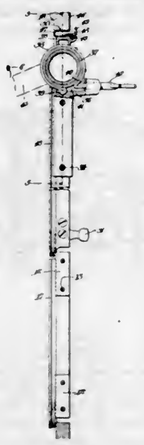
1,473,847. ANIMAL TRAP. WILLIS B. GILMORE, Idaho Springs, Colo. Filed Mar. 5, 1923. Serial No. 622,756. 7 Claims. (Cl. 43—81.)



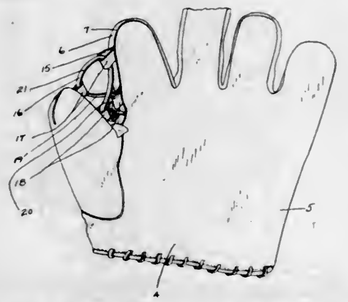
4. A trap comprising a rigid tubular member; a spring bail operatively connected thereto; a bar secured transversely to said member at a point intermediate its ends, the front end of said bar being downwardly directed and the rear end thereof being upwardly bent; a trigger pivotally connected to the rear end of said bar and adapted to retain the spring bail in set position; a trigger-plate slidably secured to said bar and having an opening adapted to receive the end of the trigger and hold the same against the action of the spring bail; a bait hook secured to the said trigger-plate; a safety catch; means comprising a hook pivotally connected to said bar and adapted to engage the bail; and an anchoring means secured to the ends of said tubular member.

1,473,848. WINDSHIELD. GEORGE E. GODDARD, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 28, 1916. Serial No. 74,871. 6 Claims. (Cl. 296—92.)

6. In a device of the class described, the combination of a support, a member arranged to swing thereon and a trunnion connection between the support and member comprising telescoping parts, the part on said member engaging the interior of the part on said support, a flexible band surrounding the part on said support and having one end anchored to said member and a screw carried by said member and cooperating with the opposite end of the band to control the clamping action thereof.



1,473,849. FIELDER'S GLOVE. HUGO GOLDSMITH, Cincinnati, Ohio, assignor to The P. Goldsmith Sons Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 20, 1922. Serial No. 602,150. 1 Claim. (Cl. 2—195.)

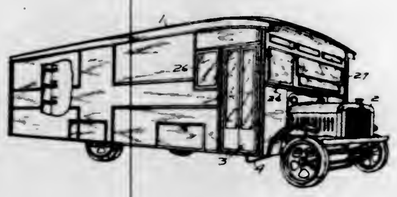


In a glove of the class described the combination of a thumb and an index finger movable toward and away from one another and each comprising a front and a back, the front and the back of the thumb and the index finger respectively having their edges disposed adjacently one to the other, straps having their ends inserted between the edges of the front and back of the thumb and the index finger and having their intermediate portions extending into the space between the thumb and index finger whereby to provide loops intermediate the ends of the straps, a row of stitching passing through the adjacent edges of the front and the back of the glove and through the ends of the straps, and a lacing threaded through the loops of the straps.

1,473,850. SERVE-SELF MOTOR STORE. EDWARD J. GREENE, Toledo, Ohio. Filed Oct. 9, 1922. Serial No. 593,279. 2 Claims. (Cl. 296—24.)

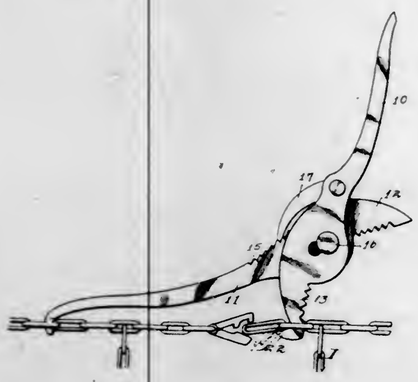
1. In a serve self motor store having a driver's vestibule, a checking desk, a driver's seat located in the vestibule in front of and against the checking desk, an enter-

ing vestibule for customers located beside the driver's vestibule, an entering hall for customers located beside the checking desk, tiers of shelves located at the sides of the motor store, a central tier and railing extending along the central line of the store and forming a hall



extending from the entering hall along the sides and around the rear end of the central tier of shelves back to the checking desk, a gate located in the railing at the checking desk whereby the driver can attend to the customers from the time they step into the vestibule until they leave the customer's vestibule.

1,473,851. COMBINED PLIERS AND CHAIN TIGHTENER. JOHN L. HALL, Ames, Iowa. Filed May 17, 1922. Serial No. 561,584. 2 Claims. (Cl. 294—3.)



1. A tool comprising a pair of members pivoted intermediate their ends, one set of corresponding ends being provided with plier jaw members and the opposite corresponding ends being formed into handle members, the free end of one of the jaw members of one of said pivoted members being provided with a hook, and the free end of the handle of the opposite pivoted member being provided with a hook, said hook members being mounted to extend slightly toward each other, for the purpose stated.

1,473,852. OILER. LOUIS STIRLING HARRELL, Baton Rouge, La. Filed Mar. 5, 1923. Serial No. 623,077. 4 Claims. (Cl. 221—54.)

1. A lubricant dispenser comprising a standard, a yoke connected to the upper portion of the standard, and having spaced sides, a pivot pin connected to the spaced sides, a lubricant containing receptacle having apertured ears rotatably connected to said pivot pin between the

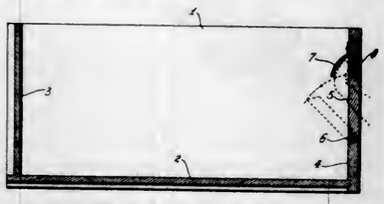


sides of said yoke, and a funnel rigidly connected to said yoke and having a depending spout adapted for discharging the oil into an oil receiver.

1,473,853. REFRACTORY ARTICLE AND METHOD OF MAKING THE SAME. WILLIAM A. HARTT, Buffalo, N. Y., assignor to The Exolon Company, Boston, Mass., a Corporation of Massachusetts. Filed May 13, 1921. Serial No. 469,272. 6 Claims. (Cl. 106—10.)

1. A refractory article containing fireclay and fused silica.

1,473,854. DRAWER PULL. HERMAN HEIDLAND, St. Louis, Mo. Filed Sept. 21, 1922. Serial No. 589,720. 5 Claims. (Cl. 45—7.)



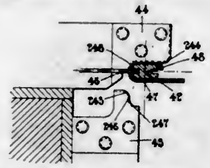
1. In a pull for drawers or the like, the combination with a front having a hand opening, of a shutter for closing said opening.

1,473,855. METHOD OF AND APPARATUS FOR MAKING BUSHES AND ROLLERS FOR GEAR CHAINS. ROBERT OSLER HERFORD and ALFRED RENSHAW, Manchester, England, assignors to Hans Renold Limited, Manchester, Lancaster, England. Filed Mar. 31, 1922. Serial No. 548,514. 22 Claims. (Cl. 59—5.)

1. A method of making bushes and rollers adapted for use in gear chains which consists in forming pieces in a strip of metal of appropriate section by bending parts substantially to the curve of a portion of the finished products, severing each piece from the strip and coiling said pieces with bent ends around a mandrel by pressure applied at either side of the middle of each such piece.

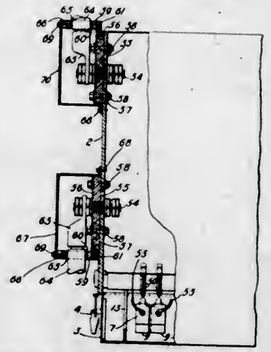
7. Apparatus for use in making bushes and rollers adapted for use in gear chains, such apparatus comprising a mandrel with a plurality of rounded corners, means

for bending a metal strip around one rounded corner of said mandrel, means for bending said metal strip around the next rounded corner of said mandrel, means for severing a portion of such strip in a position such that it is



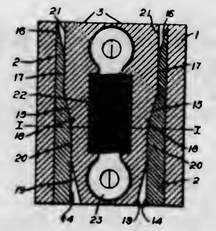
left with bent ends, a coiling mandrel, and coiling tools with means for operating the same, said tools being adapted to complete the bending of the severed portions of said strip around said coiling mandrel.

1,473,856. SWITCH TERMINAL. HENRY D. JAMES, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 9, 1919. Serial No. 288,750. 3 Claims. (Cl. 173—324.)



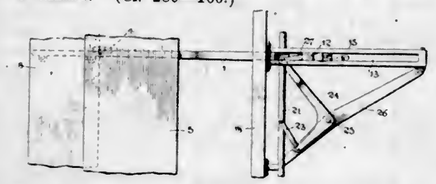
3. In a controller, a casing provided with an opening, an insulating plate bridging said opening, a conductor terminal mounted in said plate, an insulating plate having a semi-circular opening secured to said first-named plate, a casing member removably secured to said casing and enclosing said first-named plate, an insulating plate having a semi-circular opening complementary to said first named semi-circular opening, and a conductor connected to said terminal and extending through said semi-circular openings.

1,473,857. MOLD. WILLARD H. KEMPTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 8, 1918. Serial No. 257,389. 7 Claims. (Cl. 18—42.)



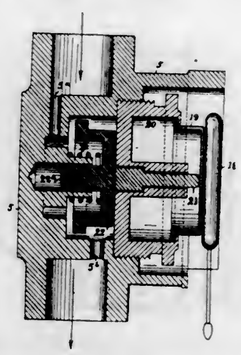
1. A mold including a body, wedge-shaped liners disposed therein and providing a chamber, and a plurality of wedge-shaped forming members adapted to surround the article to be molded and co-operating with the liners to be forced toward each other as they and the surrounded article are moved into the mold, the wedge face of each liner and forming member comprising a plurality of spaced inclined surfaces.

1,473,858. FOLDING STEP. SIMON KOEBERLIN, Fremont, Nebr. Filed Dec. 4, 1922. Serial No. 604,916. 8 Claims. (Cl. 280—166.)



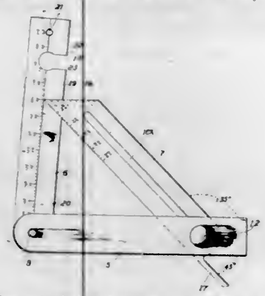
7. An attachment of the character described comprising a pair of rods, means attachable to the frame of a vehicle for slidably supporting the rods at opposite sides of the vehicle, spring pressed pivoted latches engaging said rods to hold them inactive, pedal controlled means for operating said latches selectively to release said rods, and a lever controlled means for operating the rods, when released.

1,473,859. GAS-HEATED WATER-HEATING APPARATUS. HENRI JULES MALADRY, Paris, France. Filed Jan. 18, 1922. Serial No. 530,153. 1 Claim. (Cl. 236—32.)



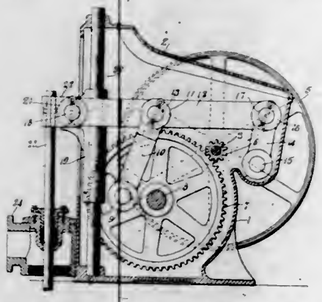
In a thermostatic valve for gas-heated water-heating apparatus, the combination of: a valve casing (5), forming an annular chamber and having an admission port (5^a) and an exit port (5^b) for the gas; a cup-shaped valve (22) having a central stem (22^a), mounted within said casing and adapted to control the passage of the gas therethrough from the admission port towards the exit-port; a guiding sleeve for said central stem, integral with said casing; a coil-spring (23) arranged in the aforesaid cup-shaped valve and normally tending to keep same away from its seat; a stationary cup-shaped guide-member (20) mounted laterally in the wall of the valve-casing coaxially and back to back with the cup-shaped valve and having an integral central sleeve; a piston (21) extending within the last-named sleeve and having one end in operative contact with said cup-shaped valve; a flanged dish-like member (19) slidably mounted in the aforesaid stationary guide-member and in operative contact with the other end of said piston; and a thermostatic capsule expansible by heat (18), having one face in operative contact with the said dish-like member; substantially as described.

1,473,860. REGISTERING BEVEL. MICHAEL MULLARKEY, Toronto, Ontario, Canada. Filed May 2, 1921. Serial No. 466,331. 3 Claims. (Cl. 33—98.)



1. A device of the character described, comprising a handle, a longitudinally slotted section pivotally mounted on the handle, a pivot for said slotted section disposed in said slot, and a scale section pivoted on the handle and entirely disconnected from the slotted section, the slotted section slidably mounted on said handle, said sections having scale graduations thereon, said slotted pivoted section adapted for cooperation with the other of said sections to determine angles of different degree and said sections being in the plane of the handle.

1,473,861. POWER HEAD. PHILIP A. MYERS, Ashland, Ohio, assignor to The F. E. Myers and Brother Company, Ashland, Ohio, a Corporation of Ohio. Filed Sept. 1, 1921. Serial No. 497,653. 6 Claims. (Cl. 74—14.)



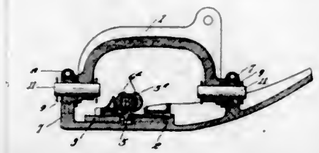
1. In a power head, the combination with a casing adapted to contain a quantity of lubricant, of operating mechanism mounted therein, including a reciprocating member mounted in said casing, a walking beam connected to said member, to the operating mechanism and to the casing, to the latter by means of a compensating device which permits the walking beam to have slight longitudinal movement when undergoing vertical travel.

1,473,862. THREE-PHASE REACTANCE COIL. ALEXANDER NYMAN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 19, 1918. Serial No. 240,835. 25 Claims. (Cl. 175—360.)



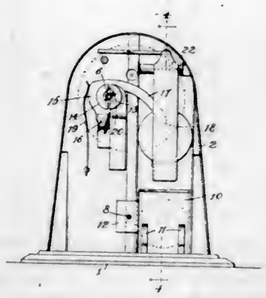
1. A tri-axial reactance coil having intersecting axes.

1,473,863. MOWING MACHINE. CHARLES H. PELTON and GEORGE C. RHODERICK, Springfield, Ohio, assignors to The Thomas Manufacturing Company, Springfield, Ohio, a Corporation of Ohio. Filed Dec. 5, 1921. Serial No. 520,097. 5 Claims. (Cl. 56—288.)



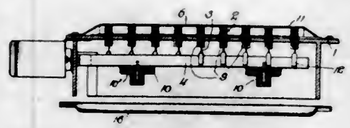
1. In a machine of the character described, a support, a finger bar having a knife cooperating therewith, and a pivoted connection between said support and bar, including an eccentric block and a clamp to hold the block in different positions of adjustment, said block and clamp having cooperating rounded clamping faces so formed as to permit universal movement without diminishing the effective clamping area of the faces, for the purpose specified.

1,473,864. COIN BANK. WILLIAM D. PENNINGTON and JOHN R. PENNINGTON, Chicago, Ill. Filed Mar. 11, 1922. Serial No. 542,817. 2 Claims. (Cl. 194—74.)



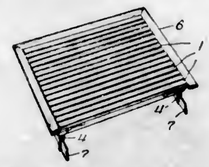
1. A coin bank having a time piece and also having a coin slide and an adjustable socket for the winding stem of the time piece, said socket being provided with means for actuation by a coin in the coin slide, said means consisting of an arm having a projecting portion in the path of the coin in the coin slide.

1,473,865. ELECTRIC HEATER. SEBRING I. PHELPS, Rockford, Ill. Filed Feb. 18, 1922. Serial No. 537,478. 9 Claims. (Cl. 219—35.)



1. An electric broiler comprising a frame, a plurality of separately constructed heating units arranged on said frame in rather widely spaced relation, with the top faces thereof disposed in the same horizontal plane and adapted to directly support thereon the food to be broiled, means for holding said units in place on said frame, and electrical means connecting said units with a source of electricity.

1,473,866. ELECTRICAL HEATING UNIT. SEBRING I. PHELPS, Rockford, Ill. Filed Feb. 18, 1922. Serial No. 537,479. 11 Claims. (Cl. 219—63.)



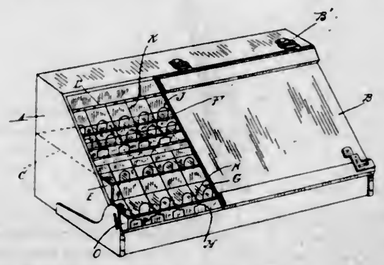
1. An electrical heating unit comprising a core formed of a sheet of bulky flexible insulating material interposed between sheets of thin stiff insulating material, electrical resistance wound spirally on the outside of said core, and a sheath surrounding said resistance-wound core and insulated therefrom.

1,473,867. ELECTRIC HEATER. SEBRING I. PHELPS, Rockford, Ill. Filed Feb. 18, 1922. Serial No. 537,480. 11 Claims. (Cl. 219—35.)



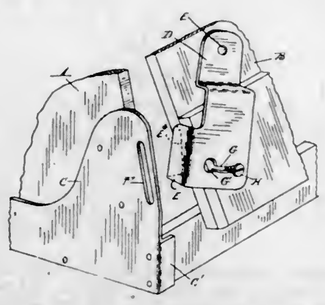
1. An electric heater comprising a support, a frame removably arranged thereon, a plurality of separately constructed heating units arranged on said frame, interfitting separable contacts located on said support and frame, and conductors connecting the contacts on said frame with said units and connecting the contacts on said support with a source of electricity.

1,473,868. DISPLAY CABINET. JOHN PINTEN, Detroit, Mich. Filed Apr. 24, 1922. Serial No. 556,335. 2 Claims. (Cl. 211—7.)



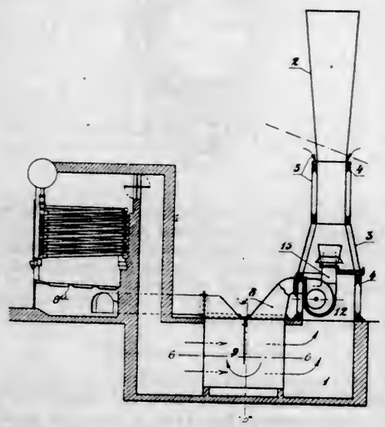
1. The combination with a display cabinet, of a horizontal partition in said cabinet dividing the same into upper and lower compartments, and a stepped shelf in one of said compartments comprising a series of vertical members and a series of horizontal members secured to said vertical members, vertical brackets terminally secured to the horizontal members of said shelf, inclined non-stretchable flexible brace members terminally secured to the uppermost vertical member and to the lowermost horizontal member of said shelf for reinforcing the latter, said brace members also alternating with said brackets to form cells adapted to receive packages containing seed, one end of said shelf terminating short of an end wall of said cabinet to provide a space in which other articles may be displayed, the said shelf being removable from said cabinet to permit another shelf of a different length to be substituted therefor.

1,473,869. BOX LATCH. JOHN PINTEN, Detroit, Mich. Filed Apr. 24, 1922. Serial No. 556,336. 6 Claims. (Cl. 292—105.)



2. The combination with a receptacle, having a closure, of a latch comprising a pair of co-acting sheet metal members, one of which is pivoted on said closure, and the other rigidly secured to the body of the receptacle reinforcing a joint between transverse faces thereof.

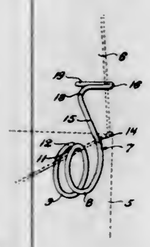
1,473,870. INDUCED AND FORCED DRAFT APPARATUS. EMILE PRAT, Paris, France, assignor to Société des Cheminées Louis Prat à Tirage Induit, Paris, France. Filed Apr. 2, 1920. Serial No. 370,862. 2 Claims. (Cl. 110—162.)



1. An apparatus for the production of draft in furnaces by simultaneous induction and blowing, comprising a chimney flue, a casing arranged within the chimney flue and divided into two compartments having in-

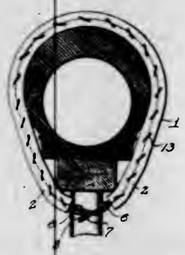
dependent central inlets and peripheral outlets, a rotatable shaft in said casing, bearings supporting said shaft at each end on opposite sides of the flue, fan sections carried by the shaft and operating in the respective compartments, a delivery nozzle on one of the sections opening into the chimney at the axes thereof, said fan sections communicating with the interior of the chimney flue and being traversed by only a portion of the combustion gases from the furnace and adapted to produce a draft by ejector action in the chimney, the other fan section having its inlet in communication with the atmosphere and adapted to direct an air blast to the grate of the furnace.

1,473,871. CLIP FOR CARTON LIDS. CHARLES PROMISLO, Philadelphia, Pa. Filed June 17, 1922. Serial No. 568,953. 3 Claims. (Cl. 217—61.)



1. A holder for box lids consisting of a lower gripping member and an upper gripping member, and an arm connecting said gripping members, said arm being off-set outwardly from a plane passing between the jaws of the lower gripping member and then angularly bent and off-set inwardly to the upper gripping member.

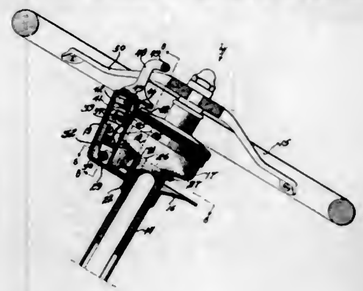
1,473,872. TRACTION DEVICE FOR MOTOR-VEHICLE WHEELS. GEORGE A. PURDY, Seattle, Wash. Filed Mar. 22, 1920. Serial No. 367,602. 2 Claims. (Cl. 152—14.)



1. A traction device comprising an elongated flat body having tapering ends, and formed of a plurality of layers of fabric, and strengthening cords extending longitudinally of the body in spaced relation and out through the tapering ends of the body, and means at the ends of the body connected to said cords for detachably attaching the device to a vehicle wheel.

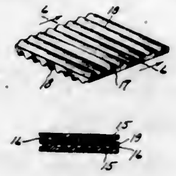
1,473,873. AUTOMOBILE STEERING-WHEEL LOCK. LEWIS T. RHOADES, Mont Clare, Pa., assignor to New York Coil Company, New York, N. Y. Filed Sept. 27, 1921. Serial No. 503,551. 8 Claims. (Cl. 70—129.)

1. The combination with a steering wheel column having a spark and throttle quadrant rigidly secured thereto, of a lock including a portion having parts adapted to engage the quadrant to prevent rotation of said portion relatively to the column; locking means embracing said column and adapted to prevent movement of said first portion in the direction of the length of said column;



and locking means movably connected to said first portion and having a part adapted to be held in a position between and over spokes of the wheel; substantially as described.

1,473,874. FUSE FOR THE PRODUCTION OF HEAT. LOREN RISK, Minneapolis, Minn. Filed Sept. 11, 1922. Serial No. 587,640. 2 Claims. (Cl. 44—14.)



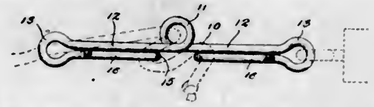
1. A fuse of the character disclosed comprising several plate-like fuse elements, at least one of which has a corrugated surface placed in contact with the opposing surfaces of the adjacent combustible plate-like fuse element.

1,473,875. ANCHOR POST FOR WINDSHIELDS. CHRISTOPHER STEWART ROBERTSON, Jacksonville, Fla. Filed July 15, 1921. Serial No. 484,980. 2 Claims. (Cl. 296—103.)



2. The combination with the body and collapsible top of an automobile, of a windshield anchor post substituted for the standard windshield anchor post and comprising a bar having obliquely disposed ends adapted to lie horizontally when the post is inclined upwardly, nonalining dowels extending from and perpendicular to the ends for engaging the body and collapsible top respectively, a tongue projecting downwardly from the post and conforming with the contour of that portion of the body contacted thereby, and a rearwardly extending longitudinal flange on the bar.

1,473,876. FASTENER DEVICE. ALFRED ROBINSON, Gardner, Mass. Filed Mar. 7, 1922. Serial No. 541,770. 1 Claim. (Cl. 24—131.)



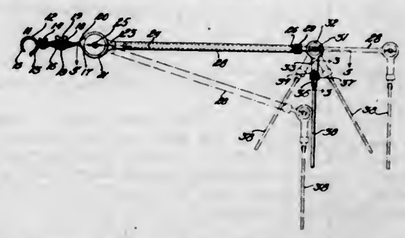
A tie device of the character indicated comprising a single piece of wire having a coil eye centrally thereof, the end parts of the wire being extended a distance in opposite directions and formed with loops, the outer parts of the wire being laid close against the parts between the eye and loops, the ends being bent laterally from the plane of the eye and acutely outward to form wedge slots and cleat arms.

1,473,877. COMBINATION TOOL. SAM ROME, Toronto, Ontario, Canada. Filed May 14, 1921. Serial No. 469,636. 6 Claims. (Cl. 33—216.)



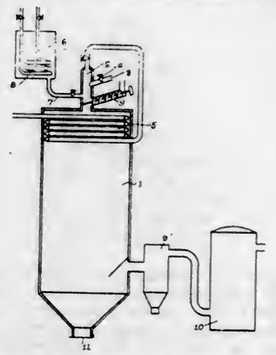
1. In a combination tool, a lever bar having plumb line and plumb bob recesses therein, a plumb line spool journalled in said plumb line recess, a plumb line wound on said spool, a plumb bob connected to the line and normally situated in the plumb bob recess, an operating handle for the spool, said handle being situated exteriorly of the level bar and means for normally covering the plumb bob recess and retaining the plumb bob therein, said plumb line extending from the spool through a channel to the end of the bar, and in a reverse direction along a groove in the face of the level bar.

1,473,878. GLARE-SHIELD DEVICE. JAMES E. ROY, Philadelphia, Pa. Filed June 30, 1921. Serial No. 481,544. 3 Claims. (Cl. 296—97.)



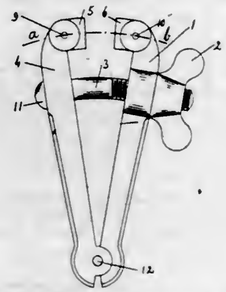
1. A device of the character described including a glare shield; means for supporting said glare shield, and including joints effecting movement of the glare shield in horizontal and vertical planes, said joints including a twisted bar having bulged resilient portions extending at right angles to each other; members with bulged resilient elements engaging said bulged portions; thumb screws extending through said resilient portions and their companion elements for clamping them together and adjusting said shield in said planes; and means including a pair of split sleeves and stems adjustably clamped therein and pivotally connected by means of bulged resilient portions for swinging and tilting said shield on one of said members; substantially as described.

1,473,879. METHOD FOR MANUFACTURE OF SULPHURIC ACID. FERDINAND A. RUDOLF, Jamaica, N. Y., and JAMES C. RYDER, Passaic, N. J. Filed Dec. 17, 1921. Serial No. 523,089. 12 Claims. (Cl. 23—1.)



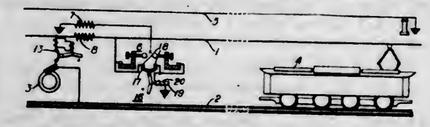
1. The method of oxidizing sulphur which consists in injecting finely divided sulphur into an atmosphere of air in the presence of a catalytic agent.

1,473,880. HAND VISE. ALBERT SCHWAGER, Kreuzlingen, Switzerland. Filed Feb. 28, 1921. Serial No. 448,581. 1 Claim. (Cl. 81—18.)



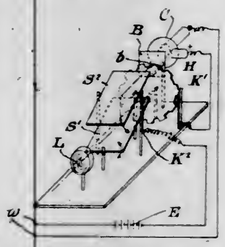
In a hand-vise a jaw and a leg provided with an offset, means for fixing the jaw comprising a locking device consisting of a ball, a groove and a seat in the jaw, said offset of the leg being provided with two holes, a cover to cause the locking of the jaw as soon as the ball rests on the seat of the jaw and the unlocking of the jaw when the ball rests in the groove of the jaw, the whole locking device placed inside of the jaw for the purpose of keeping the surface of the jaw entirely smooth.

1,473,881. NONINDUCTIVE INTERFERENCE SYSTEM. CHARLES F. SCOTT, New Haven, Conn., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 2, 1918. Serial No. 264,939. 7 Claims. (Cl. 171—97.)



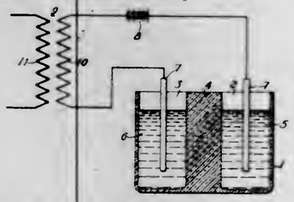
1. The combination with an electrical distribution system, and a conductor of an independent electrical circuit in proximity thereto, of spark-gap means associated therewith for preventing the induction of undesirable potentials in said independent electrical circuit when abnormal conditions exist in said electrical distribution system.

1,473,882. PICTURE TRANSMISSION. ALF SINDING-LARSEN, Vestre Aker, near Christiania, Norway, assignor to A/S Telocle, Christiania, Norway. Filed Sept. 16, 1919. Serial No. 324,249. 5 Claims. (Cl. 178—6.)



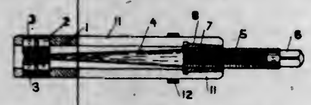
1. The method of increasing the effect of photoelectric cells, which comprises supplying to said cells an interrupted current whose tension is sufficiently high to maintain the discharge after interruption of the current but is insufficient to charge the cell when not illumined.

1,473,883. ELECTROLYTIC CONDENSER. JOSEPH SLEPIAN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 17, 1919. Serial No. 345,539. 6 Claims. (Cl. 175—316.)



1. An electrolytic condenser comprising a container, an acid and an alkaline electrolyte disposed in the container, a porous material interposed between the electrolytes and electrodes immersed in the electrolytes.

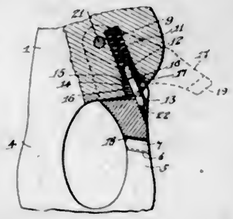
1,473,884. EXPANDING DEVICE FOR BOILER TUBES AND THE LIKE. PAUL SLESAZECK, Berlin-Reinickendorf, Germany. Filed Apr. 15, 1922. Serial No. 553,221. 4 Claims. (Cl. 153—82.)



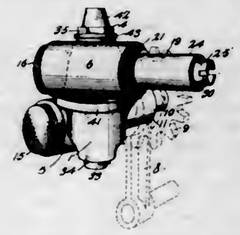
1. A device for expanding heating tubes in boiler walls, comprising in combination a casing resiliently split in its longitudinal direction, rollers mounted in said casing so as to be radially movable and adapted to be pressed against the tube wall in order to expand the same, a conically-shaped mandrel adapted to engage between said rollers and having external screw threads and a nut engaging with said screw threads and being frictionally surrounded by said casing.

1,473,885. HOOK. EMMET S. SOULE, South Bend, Wash. Filed Mar. 28, 1923. Serial No. 628,286. 6 Claims. (Cl. 24—233.)

1. A hook comprising a shank formed with a lateral offset at one side, a body portion extending from the other end of said shank at one side thereof and terminating in a bill having a centrally disposed lug projecting therefrom, a guard overlapping and projecting from and further pivotally connected at one end to the lateral offset of the shank and having its free end bifurcated for the reception of said lug, and a spring controlled manually releasable locking device carried by the lateral offset portion of the shank and extending into and cooperating with said guard for maintaining it in overlapping position with respect to said lug to close the body portion of the hook.



1,473,886. SWIVEL JOINT FOR SPEEDOMETERS. HARRY R. STOUGHTON, Plymouth, Ind. Filed Apr. 12, 1919. Serial No. 289,702. 8 Claims. (Cl. 74—101.)



1. In a swivel connection for shafts, a shell comprising two sections each carrying a barrel, one of said barrels having interchangeably secured in its two ends a bearing sleeve and a cap, a reversible shaft journaled in said sleeve and having a gear adjacent one end, a geared shaft in the other barrel and connecting gearing in the shell.

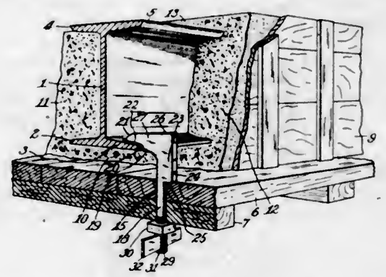
1,473,887. METHOD OF MAKING BROMINATED INDIGOS. CHARLES J. STROSACKER and HOWARD J. RUPRIGHT, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Dec. 16, 1918. Serial No. 266,952. 3 Claims. (Cl. 260—52.)

1. The method of brominating indigo, which consists in reacting directly on the same dry with bromine in amount from 15% to 25% in excess of the theoretical to form the desired substitution product, the reaction being carried on at a temperature of from 70° to 80° C. and under atmospheric pressure.

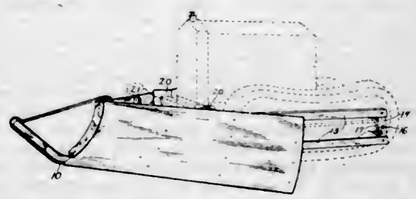
1,473,888. REMOVABLE BEAM BOTTOM FORM HANGER AND SPACER. WILBUR R. THOMPSON, Franklin Township, Owen County, Ind., assignor of one-half to Elmer P. Warren, Indianapolis, Ind. Filed Oct. 2, 1922. Serial No. 591,814. 5 Claims. (Cl. 25—131.5.)

2. A beam bottom form hanger comprising a rod portion and a head portion on one end of the rod portion, the head portion extending laterally beyond one side of the rod portion and being tapered and having a guide shoulder at the under side thereof facing away from the base of the head, the head having a relatively thin and tapered nose portion extending beyond the guide shoul-

der for support upon a beam flange, the head portion extending also laterally beyond the opposite side of the rod portion and along the rod portion towards the opposite end thereof to constitute a spacing guide and a stop shoulder on the rod portion, and a device connected with the rod portion opposite to the stop shoulder to support the bottom form.

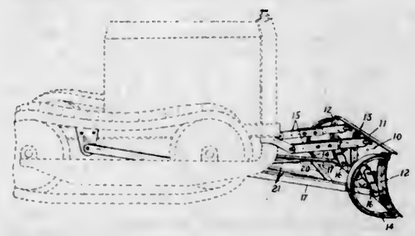


1,473,889. DRIVING GEAR FOR SNOWPLOWS. GEORGE D. TOY and HUGH T. TOY, Sidney, Ohio. Filed Aug. 28, 1922. Serial No. 584,930. 9 Claims. (Cl. 37—44.)



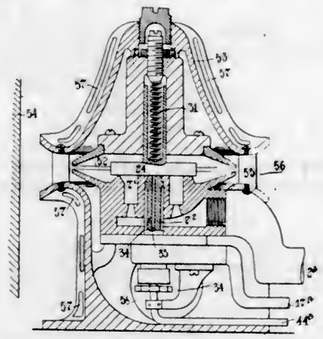
1. Driving gear for a snow plow, comprising driving bars pivotally connected to the plow and to a tractor, and rubbing plates on the plow adapted to bear against abutments on the tractor, whereby to prevent lateral displacement of the plow while permitting free movement of the plow up and down with permitting free movement of the plow up and down with reference to the tractor, said bars constituting the sole driving connection between the plow and tractor.

1,473,890. SCRAPER. GEORGE D. TOY and HUGH T. TOY, Sidney, Ohio. Filed Aug. 28, 1922. Serial No. 584,931. 13 Claims. (Cl. 37—143.)



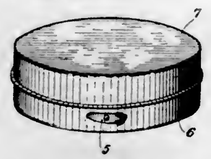
1. A scraper comprising a blade adapted to occupy an operative and an inoperative position, a link pivotally attached to the blade, the free end of the link being adapted to attach to a tractor, and means whereby the blade is made to assume its operative position when it is moved in one direction by the tractor, and made to assume its inoperative position when it is moved in the opposite direction.

1,473,891. MECHANICAL VAPORIZING OIL BURNER. JAMES WALLACE TYGARD and ELIZABETH ANN TYGARD, Toronto, Ontario, Canada. Original application filed Dec. 27, 1920, Serial No. 433,312. Divided and this application filed Nov. 29, 1921, Serial No. 518,740. Renewed Sept. 28, 1923. 4 Claims. (Cl. 158—76.)



1. In a mechanical vaporizing oil burner for the production of mixtures of air and liquids, the combination of a hollow fixed member, a vibrating member located within the body of the fixed member in such manner as to divide it into substantially two compartments, whereby the movement of the vibrating member opens communication between said compartments when the vibrating member is actuated either by vacuum or pressure and automatically closes communication when pressure is released or vacuum broken, regulatable means for controlling the action of the vibrating member, means whereby a regulatable amount of gaseous or liquid fuel and air is admitted to one compartment, means whereby their incorporation into a finely pulverized homogeneous combustible or stable vaporous mixture is effected when passing from one compartment to the other, a suitable refractory or protective enclosing envelope or cover having suitable passages for the introduction of cooling mediums and suitable annular openings through the side of said cover adapted to conduct the combustible vaporous mixtures generated in the carbureting device to the refractory wall or lining against which they burn when ignited.

1,473,892. BOX OPENER. ALBERT B. VIETH, Sr., Philadelphia, Pa. Filed June 15, 1922. Serial No. 568,443. 4 Claims. (Cl. 220—43.)

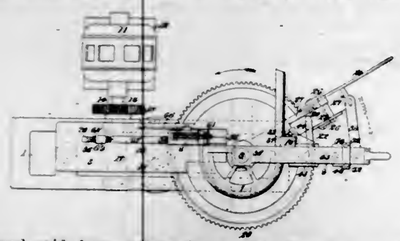


1. A box opener, comprising an arched bridge, an opening lever, and a rivet connecting the lever and bridge, the head of the rivet being located within the arch of the bridge, said bridge being adapted for application to the body of the box.

1,473,893. BENDING MACHINE. PHILIP B. WALLACE and FRANK H. FOX, San Francisco, Calif.; said Fox assignor to said Wallace. Filed Sept. 22, 1920. Serial No. 411,895. 7 Claims. (Cl. 153—46.)

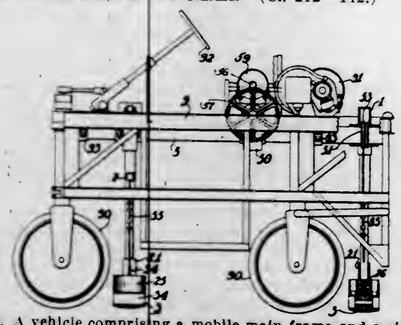
1. A pipe bending machine comprising a frame, a pair of levers having a common pivot on said frame, a form on said frame and around which pipe is adapted to be bent, means for holding the pipe and the frame during

bending operation, a pressure block carried by one of said levers and arranged to engage pipe and bend it



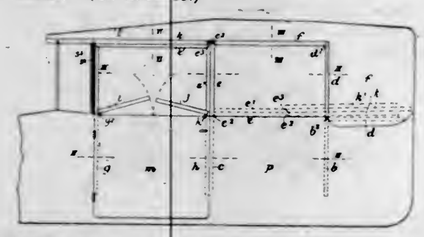
around said form, means for moving the other of said levers around said form, and a link connecting said levers.

1,473,894. LUMBER-PILE VEHICLE. HORACE F. WEATHERBY, Seattle, Wash. Filed Dec. 2, 1921. Serial No. 519,506. 35 Claims. (Cl. 212—142.)



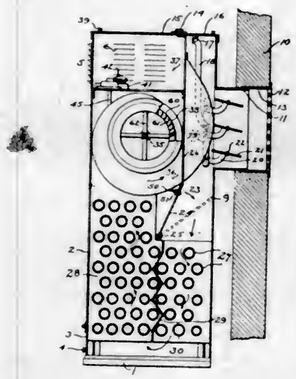
1. A vehicle comprising a mobile main frame and a rigid load-carrying frame including a member extending downwardly at each side of the main frame, said load-carrying frame being pivotally supported from the main frame upon a longitudinal axis.

1,473,895. FOLDING HOOD FOR MOTOR VEHICLES AND THE LIKE. GEORGE HAROLD WENHAM, Bromley, England. Filed July 25, 1921. Serial No. 487,477. 2 Claims. (Cl. 294—45.)



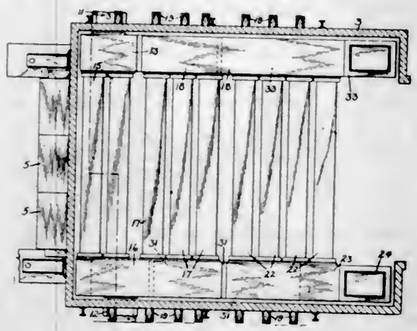
1. In a motor vehicle and the like, a combined sash-frame and hood support comprising light sheet-metal channel bars substantially E-shaped in cross section each forming two recesses in parallel relation in a door of the vehicle body, a sash slidably mounted in one of the recesses of each of said bars, a cover plate mounted at each end in the other recess of each bar, light sheet metal channel bars fixed in parallel relation in the sides of the vehicle body, light sheet-metal bars U-shaped in cross section pivotally connected to the upper ends of the fixed bars and forming extensions of the latter and arranged to receive the sash, and light sheet-metal cant rails substantially U-shaped in cross-section pivotally connected to the free ends of the extension bars and arranged to receive the upper edge of the sash.

1,473,896. HEATING AND VENTILATING EQUIPMENT. JAY AUSTIN WOLFE, Columbus, Ohio, assignor to The Columbus Heating and Ventilating Company, Columbus, Ohio, a Corporation of Ohio. Filed June 14, 1922. Serial No. 568,357. 3 Claims. (Cl. 98—27.)



1. In combination a casing having a bottom, top and side walls, a partition extending between two opposite sides of the casing and located between the two remaining sides of the casing, said partition extending vertically in spaced relation to the bottom of the casing and terminating at its upper edge a considerable distance below the top of the casing, a damper having its lower edge pivoted within the casing at the top of the partition, said casing having an air inlet at one side of the partition and an air outlet at the other side of said partition, a heater in said casing lying wholly below the top of the partition on the side adjacent the air inlet, a second heater on the other side of the partition and projecting above the top thereof, a second partition depending from the top of the casing and having its lower edge engageable by the free edge of the damper, said damper being also engageable at its free edge with the wall of the casing below the inlet opening, and means to adjust the position of the damper.

1,473,897. LEER. GEORGE W. BATCHELL, Wellsburg, W. Va. Filed Nov. 10, 1922. Serial No. 600,007. 8 Claims. (Cl. 49—47.)

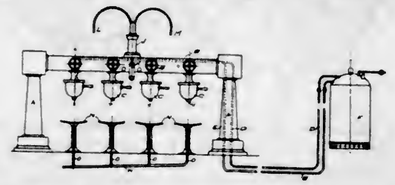


1. In a leer, a plurality of flues, a gas inlet for permitting gas to enter the flues, the flues interconnected to form a continuous passageway for the gas through the leer, a burner located at one end of the connected

flues, air inlets located at the ends of the flues to draw the air into the flues in the direction that the flame from the burner is moving to maintain the flame and the combustion of the gas as it progresses through the flues.

3. In a leer, a plurality of flues, a gas inlet for permitting gas to enter the flues, the flues divided into sets of parallel connected flues, the sets of flues interconnected to form a continuous passageway for the gas through the leer, the number in each set increasing progressively towards the stack end of the leer.

1,473,898. COFFEE-MAKING MACHINE. RAOUL FELICE BOSSINI, London, England. Filed Oct. 11, 1920. Serial No. 416,138. 1 Claim. (Cl. 53—3.)



In coffee making apparatus, a frame, a valve body supported by the frame and having steam and hot water ducts, and a common discharge duct, a boiler having steam and water connections with the respective ducts, a holder through which said common discharge duct discharges, a casing detachably connected to the holder and having a discharge opening, and a filter detachably mounted on said casing, and a valve element in said valve body arranged to put either the steam or hot water duct at will in communication with the common discharge duct and thereby cause either steam or hot water to be supplied to the filter and casing as required.

1,473,899. METHOD OF PRESERVING WOOD. FRIEDRICH BODMAR, Ostbahn, near Berlin, Germany. Filed Aug. 24, 1921. Serial No. 494,979. 9 Claims. (Cl. 99—12.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. The method of preserving wood which consists in treating wood with a fluorine compound and mercury chloride.

9. As a new composition of matter, a solution containing a fluoride, a fluosilicate and mercury chloride.

1,473,900. ELECTRIC-LIGHTING SYSTEM. JOHN B. BUSHNELL, Berkeley, Calif., assignor to N. R. Harris and M. C. Harris, Copartners doing business as the Firm of Harris Electric Company, San Francisco, Calif. Filed Dec. 1, 1920. Serial No. 427,549. 4 Claims. (Cl. 171—119.)

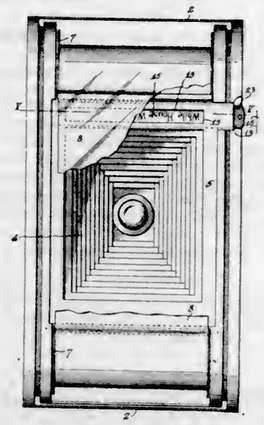


1. In an alternating current generator adapted to be driven at varying speeds, a magnetic member, a coil carried by said member, and adapted to be connected at its ends to a load, a relatively rotatable core for varying the magnetism threading the coil at a rate dependent upon the relative speed of rotation, and a resistance closing the circuit of a part of the turns of the coil.

1,473,901. PROCESS FOR THE PREPARATION OF A PRODUCT FOR THE MACERATION OF VEGETABLE SUBSTANCES AND THE RESULTING PRODUCT. DOMENICO CARBONE, Milan, Italy. Filed Oct. 24, 1922. Serial No. 596,628. 2 Claims. (Cl. 92—5.)

1. Process for the preparation of a product for the maceration of vegetable substances, by placing raw potatoes in water with the addition such as of any preparation containing macerating microbes, leaving same standing until the more or less complete decomposition of the potatoes has been reached.

1,473,902. EXPOSURE-IDENTIFICATION ATTACHMENT FOR CAMERAS. CLARENCE A. CHARBENEAU, Mount Clemens, Mich. Filed Apr. 28, 1922. Serial No. 557,135. 5 Claims. (Cl. 95—1.1.)



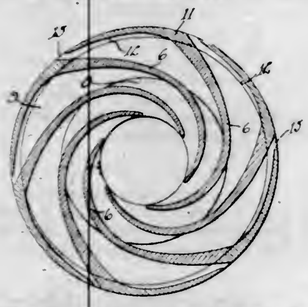
1. In a camera, a bellows frame having a small opening for the exposure of a film for autographic purposes, a positive member slidable in the opening of said bellows frame, and a shutter in the same bellows frame opening adjacent said detachable positive member and by which the positive member may be exposed, said shutter being slidable by lateral movement relative to the side of the camera.

1,473,903. METHOD OF MARKING ENAMELED WARE. EMIL S. DENK, St. Louis, Mo. Filed Aug. 1, 1921. Serial No. 489,103. 13 Claims. (Cl. 41—26.)



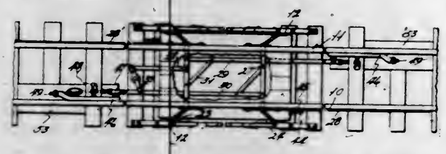
1. The method of marking enamel ware, comprising, coating the enameled surface over the area to receive the mark with tacky material, applying to the coating an enamel, again coating the coated surface partially or wholly with a tacky material, applying to the part so recoated an enamel, and treating the ware to render the composite mark permanent.

1,473,904. CENTRIFUGAL PUMP. WILLIAM CHARLES DOWD, Quincy, Ill. Filed Sept. 13, 1922. Serial No. 587,938. 1 Claim. (Cl. 103—103.)



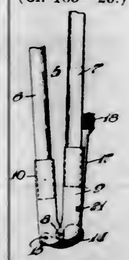
A centrifugal pump comprising a casing having an inlet and an outlet, an impeller having curved vanes spaced apart to provide curved fluid passages enlarging toward the outer rim of the impeller, and means carried by the impeller for throttling the fluid delivered from said curved passages, said means comprising a ring secured to the rim of the impeller, said ring having a recess registering with the end of the curved passage between spaced apart vanes, and being provided with an opening contiguous to one wall of the adjacent vane, the wall of said recess being curved from the edge of the wall of a vane in advance to the opening in the succeeding vane, whereby the fluid is directed toward the opening.

1,473,905. RAILWAY SAFETY GATE. COCIU ENACHE, Dallas, Tex. Filed July 28, 1923. Serial No. 654,313. 11 Claims. (Cl. 246—293.)



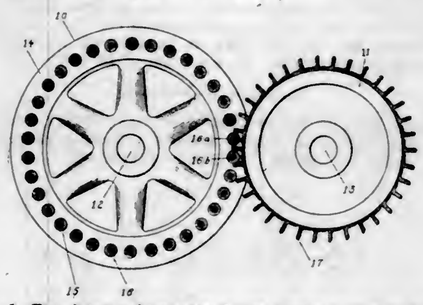
1. In a railway crossing gate, a plurality of swinging gates, a sliding unit between the gates for swinging the same, a pull rod along the track for moving the unit to close the gates, a wheel operated device for pulling said rod, an actuating bar connected to the unit, and a second wheel operated device for sliding the actuating bar to slide the unit and open the gates.

1,473,906. FOLDING UMBRELLA. MORRIS H. HARTZELL, Philadelphia, Pa., assignor to Samuel S. Fretz, sr., Philadelphia, Pa. Filed Apr. 28, 1922. Serial No. 557,168. 1 Claim. (Cl. 135—25.)



In a folding umbrella, a foldable rib formed of sections, a pivotal joint for said sections, a resilient member connected to one of said sections and adapted to hold said sections as continuities of each other, and a swinging member directly pivoted to the other of the sections of the rib and disconnected from the first-named section and having said resilient member connected therewith.

1,473,907. MECHANICAL MOVEMENT. JOHN HUTTRICH, Lincoln, Nebr. Filed June 16, 1922. Serial No. 568,817. 3 Claims. (Cl. 74—41.)



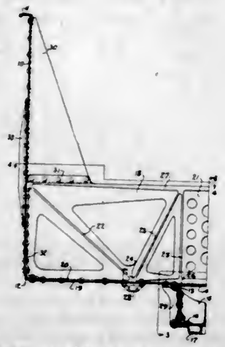
1. Two intermeshing gear drums having unequal radii of rotation, and intermeshing gear devices on said drums for causing said drums to rotate at equal angular velocities, the intermeshing elements of said gear drums being continuous and uninterrupted throughout the lengths of the drums.

1,473,908. YARN CLEANER. ROBERT GOULD JENNINGS, Elmira, N. Y. Filed Mar. 15, 1920. Serial No. 365,788. 17 Claims. (Cl. 28—66.)



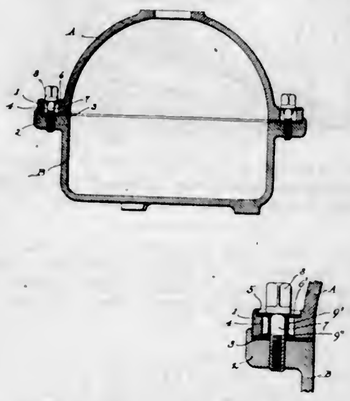
15. In a yarn cleaning apparatus, in combination, a cleaning unit, a rotatable operating pin for said unit, an operating arm for said pin having a terminal portion adapted for connection to said operating pin and having resiliently connected sections spaced apart and lying in a plane substantially at right angles to the axis of said pin, and a fastening device co-operating with the sections of said terminal portion for securing said operating arm to said pin and for adjusting said operating arm relatively thereto.

1,473,909. CAR CONSTRUCTION. BYERS W. KADEL, Baltimore, Md. Filed Nov. 10, 1922. Serial No. 599,996. 20 Claims. (Cl. 105—230.)



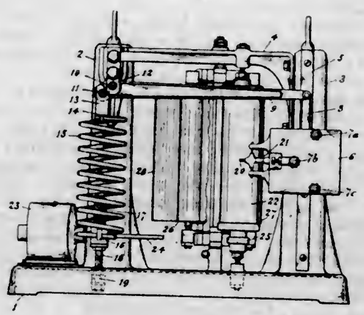
1. In a railway car having a center sill formed of a pair of channels with a cover plate, a one-piece body bolster disposed wholly within the cavity of the car and extending entirely above the top of the center sill, the said body bolster having a webbed central portion and trussed end portions, the webbed central portion being arranged to rest directly upon the said center sill.

1,473,910. YIELDABLE JOINT FOR WATER METERS AND THE LIKE. FRANK LAMBERT, Brooklyn, N. Y. Filed Dec. 30, 1921. Serial No. 526,042. 10 Claims. (Cl. 137—71.)



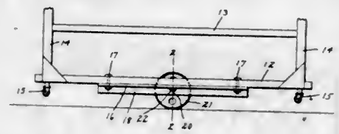
1. A casing comprising two sections, one of said sections having a plurality of openings, deformable washers mounted over said openings, and headed fastening members passing through said washers and openings into engagement with the other section, said openings being so much larger than the heads of said members that under excessive pressure said washers and heads are forced into or through said openings.

1,473,911. VIBRATION-RECORDING APPARATUS. BENJAMIN LIEBOWITZ, New Rochelle, N. Y. Filed Nov. 12, 1921. Serial No. 514,507. 4 Claims. (Cl. 234—1.)



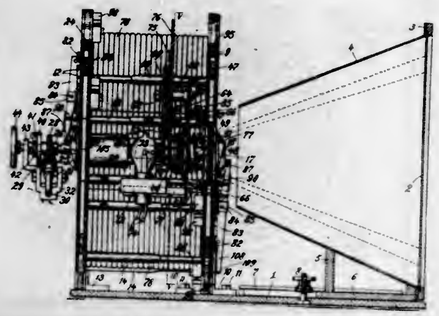
1. In a vehicle vibration recording apparatus, a pivoted lever, having a long and short arm, a weight connected thereto at the end of its long arm, and a spring connected thereto at the end of its short arm, the leverratio and spring deflection being such that the period of the system is long in comparison with the periods of oscillation of the vehicle body.

1,473,912. TRUCK ATTACHMENT FOR SHOE RACKS. FRANK H. LINK, South Braintree, Mass. Filed Mar. 17, 1922. Serial No. 544,605. 1 Claim. (Cl. 280—61.)



A shoe rack comprising a base portion, including spaced apart longitudinal frame members, and having casters at its opposite ends, a pair of straight angle-bars composed of upper webs forming seats on which said members are bolted, and lower webs projecting downward from the upper webs, and provided with axle bearings, a transverse axle journaled in said bearings, a pair of wheels mounted on said axle between the angle-bars, and means confining the hubs of said wheels against the lower webs of the angle-bars, so that the wheels are spaced apart, the diameter of the wheels being such that they project upward into the space between the longitudinal frame members, and downward to support the rack with its casters raised above a floor, the length of the angle-bars being such that they reinforce the longitudinal frame members, and prevent the rack from sagging at its end portions, when supported wholly by the wheels.

1,473,913. METHOD OF PROJECTING IMAGES AND APPARATUS THEREFOR. GEORGE H. STANSER MCNAIR, HUGH N. DE L. MCNAIR and CLAUDE T. SIEBS, New York, N. Y. Filed Apr. 26, 1921. Serial No. 464,582. 5 Claims. (Cl. 88—24.)

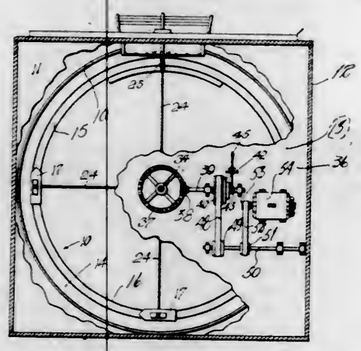


4. In the art of optical projection, the method consisting in causing the rays from a light source to diverge, passing a part of said rays through a transparency, cutting off the remaining rays, and intercepting the rays which have passed through said transparency by a translucent screen adapted to receive a projected image.

1,473,914. AMUSEMENT DEVICE. ALBERT W. MARMON, Dallas, Tex., assignor, by direct and mesne assignments, of one-half to Delmar Haggard, Dallas County, Tex., and one-half to Jiles J. Hutchens, Dallas, Tex. Filed Aug. 28, 1922. Serial No. 584,610. 1 Claim. (Cl. 46—27.)

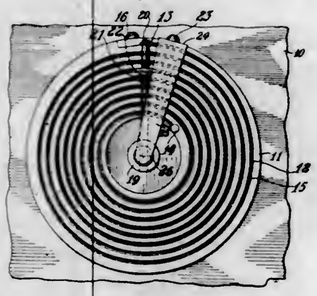
In an amusement apparatus, a basing having an upright wall for the display of scenery, a circular track submerged in said basin contiguous to said wall, a floor above said basin, said track having an elevated portion

rising to said floor, a central shaft, a plurality of spaced cars on said track, sweep arms connected with said shaft and having their outer ends connected with said cars, a gear on the shaft elevated above the basin, a counter shaft, a pinion on the counter shaft meshing



with the gear, a pulley loosely mounted on the counter shaft, a prime mover, means for transmitting motion from the prime mover to the pulley, and a friction clutch for establishing connection between the pulley and the counter shaft.

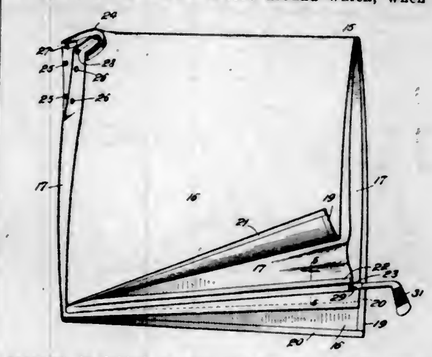
1,473,915. RHEOSTAT. LAURENCE C. MARTIN, Providence, R. I. Filed June 10, 1922. Serial No. 567,243. 14 Claims. (Cl. 219—56.)



1. In a device of the class described, in combination, a resistance member having a portion formed to extend substantially back upon itself, means for making electrical connection therewith, a movable contact engaging said member and adapted to be moved along the same, and means extending adjacent to said member and substantially parallel thereto forming a guide to direct said contact along said member.

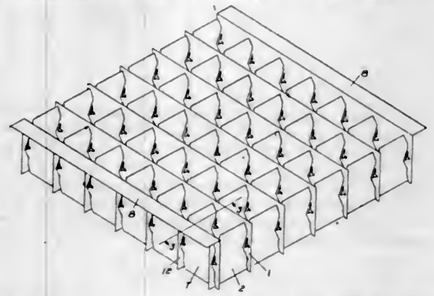
1,473,916. RAIN-PROOF GARMENT. CHARLES A. PLACE, New York, N. Y., assignor to New York Mackintosh Clothing Company, New York, N. Y., a Corporation of New York. Filed May 16, 1923. Serial No 639,299. 3 Claims. (Cl. 2—60.)

3. An initially flat rectangular flexible rainproof garment having a head opening therein and folded under edge portions cemented to the body of the garment, the folded portion along about one-half of one edge of the garment being cemented to the body of the garment at its outer edge portion only, thereby forming along said edge of the garment a long pocket open at its outer end and adapted to receive a core around which, when the



garment is folded to suit the length of said core, the garment may be wound into a compact roll adapted to be carried in a golf bag.

1,473,917. EGG-CASE FILLER. ASA B. SEGUR, Chicago, Ill., assignor to Tite-Pack Filler Co., Chicago, Ill., a Corporation of Illinois. Filed July 17, 1922. Serial No. 575,459. 8 Claims. (Cl. 217—34.)

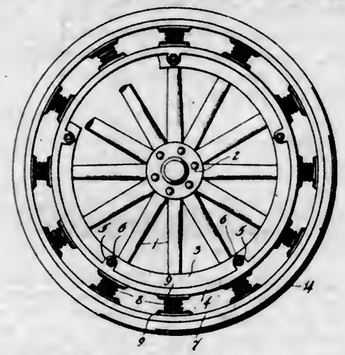


1. A compartmental filler for a container having rigidly spaced side and end walls, including cells formed by the interlocking of transverse partitions extending substantially from one side wall to the other and longitudinal partitions terminating short of both end walls, two of the transverse partitions being extended above the longitudinal partitions and bent respectively toward the adjacent end walls of the container to afford extensions, each of which extensions projects beyond the longitudinal partitions and into direct, continuous and edgewise engagement with the adjacent end wall of the container; the two transverse partitions equipped with the said extensions being interlocked at a distance from their tops with the longitudinal partitions to space the lower portions of the said two transverse partitions apart, the said interlocking connection being arranged to permit a flexing of the said two transverse partitions as to vary the distance between the container-wall-engaging edges of the extensions, the said distance being greater before the filler is inserted in the container than the distance between the container walls engaged by the said edges when the filler is inserted.

1,473,918. RESILIENT WHEEL. WILLIAM A. WITTEN, Duncan, Okla. Filed Mar. 10, 1922. Serial No. 542,654. 1 Claim. (Cl. 152—32.)

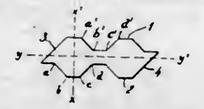
A resilient wheel including inner and outer spaced rims, base plates carried by the rims in the space therebetween, cone-shaped protuberances carried by the base plates and each having a radial opening located close to

the base plate, the protuberances of the respective rims being located opposite to each other, and coil springs surrounding the opposed protuberances and seated on



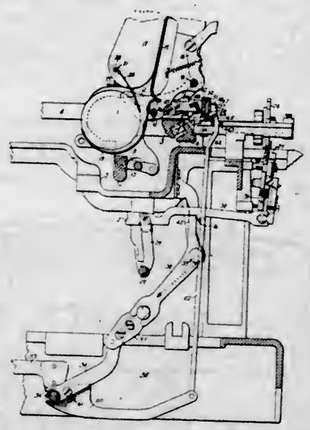
the base plates thereof and having their ends turned inwardly at a sharp angle and engaged in the respective openings.

1,473,919. ROOFING ELEMENT. HERBERT ABRAHAM, New York, N. Y., assignor to The Ruberoid Co., a Corporation of New Jersey. Filed May 19, 1920. Serial No. 382,496. 7 Claims. (Cl. 108—7.)



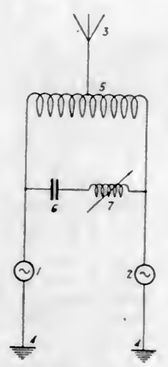
1. A roofing element having oblique parallel sides, and having its upper and lower edges composed of similar broken lines, the configuration of the element being such that all of the corresponding points of the upper and lower edges are equally distant when measured on lines parallel to the sides.

1,473,920. TYPEWRITING MACHINE. EDWIN E. BARNEY, New Rochelle, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Jan. 27, 1923. Serial No. 615,201. 13 Claims. (Cl. 197—176.)



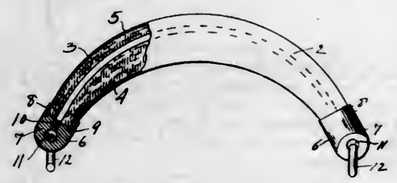
9. In a typewriting or like machine, the combination of a carriage, a key, and means controlled by said key for causing the carriage to skip a distance of one or more letter spaces, the effectiveness or ineffectiveness of said last mentioned means under control of said key depending on the position of the carriage in its line of travel.

1,473,921. HIGH-FREQUENCY SIGNALING SYSTEM. JOSEPH BETHENOD, Paris, France. Filed May 6, 1922. Serial No. 559,009. 7 Claims. (Cl. 250—17.)



1. The combination of a radiating unit, a plurality of parallel high frequency generators for supplying said radiating unit and a synchronizing connection between said generators comprising a pair of impedances in series shunted by a condenser, said radiating unit being connected to the junction point of said impedances.

1,473,922. HANDLE. SIEVEL CHAKOV, Philadelphia, Pa. Filed Feb. 1, 1922. Serial No. 533,346. 3 Claims. (Cl. 190—57.)

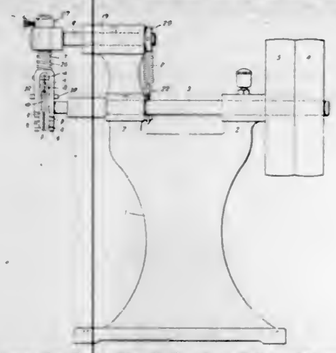


3. The combination with a handle including a hand hold portion and a stiffening wire embedded therein with its ends projecting from the ends of said hand hold portion, said projecting ends having screw threads thereon, of caps having a threaded central hole for threaded engagement with the projecting ends of the stiffening wire and further provided with an annular flange surrounding and enclosing the ends of the hand hold portion.

1,473,923. TACK-EXTRACTING MACHINE FOR BOOTS AND SHOES. EDWARD PERCY CORPS, Northampton, England. Filed Dec. 8, 1919. Serial No. 343,357. 12 Claims. (Cl. 12—16.)

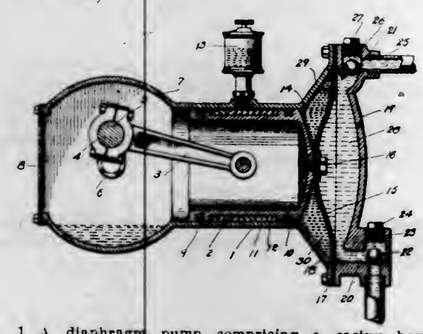
1. A tack extracting machine having a rotary extractor device consisting of a pair of circular plates clamped together face to face with an intervening space, said plates having formed in their opposing faces channels lying on chords of said plates, the channel in each plate combining with that in the opposite plate to form a passage, the faces of the plates being cut away on the

periphery to provide an entrance opening to said passage for the tack heads, said tacks being drawn out of the



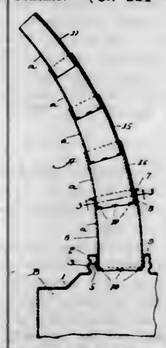
work towards the axis of the rotating extractor device by the walls which form its passage in the latter.

1,473,924. DIAPHRAGM PUMP. EVERETT B. CUSHMAN, Lansing, Mich., assignor to Bean Spray Pump Co., San Jose, Calif., a Corporation of California. Filed Nov. 24, 1922. Serial No. 603,127. 4 Claims. (Cl. 103—152.)



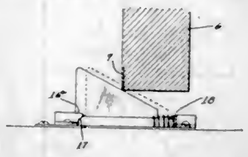
1. A diaphragm pump comprising a casing having a liquid chamber with an inlet and an outlet, one wall of the chamber consisting of a diaphragm, a piston in the casing connected to the diaphragm, and a fluid located between the piston and the diaphragm to exert pressure over the entire exposed outer surfaces of the diaphragm.

1,473,925. CONTAINER AND SPOUT. EDWIN H. DAYES, Bakersfield, Calif. Filed Mar. 2, 1923. Serial No. 622,253. 5 Claims. (Cl. 221—27.)



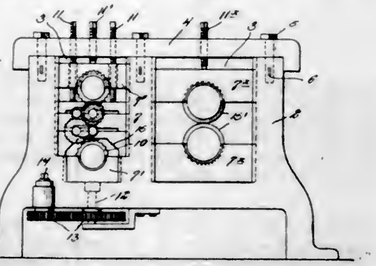
1. A spout, comprising a plurality of telescoping sections loosely associated and capable of arcuate extension; in combination with a container member, one of said sections of the spout being provided with means for maintaining the other sections when collapsed, in a definite position within the container.

1,473,926. DOORSTOP. DAVID W. EMSLIE, Cleveland, Ohio. Filed Nov. 16, 1922. Serial No. 601,280. 1 Claim. (Cl. 292—63.)



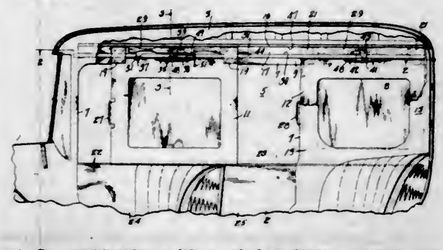
A door stop comprising a base plate having spaced bearings, a rocking latch plate having trunnions slidable in said bearings, said latch plate being mounted between the bearings, one of said bearings having a notch at the top to hold the plate in upright position, and another notch at the side to hold the plate when swung down, and a spring coiled around one of the trunnions between the plate and one of the bearings and tending to force the plate into engagement with either of the notches.

1,473,927. TIN-SHEET SEPARATOR. JOHN EVANS, Toronto, Ohio, assignor of one-third to Clyde H. Carroll, Martins Ferry, Ohio. Filed Oct. 3, 1921. Serial No. 505,086. 7 Claims. (Cl. 29—17.)



7. An apparatus of the class described comprising a pair of side frames, bearing blocks removably carried thereby, a pair of opening rolls and two pairs of corrugated gripping rolls carried by opposing sets of said blocks, a pair of smoothing rolls carried by another set of opposing blocks and means for rotating the opening and corrugated rolls.

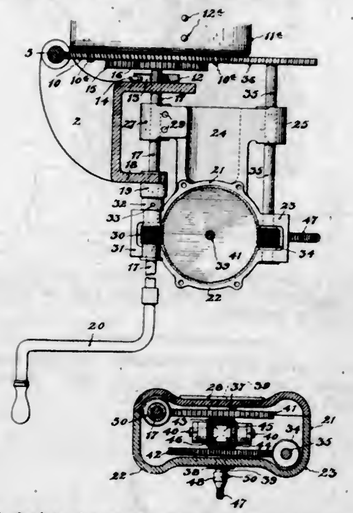
1,473,928. SLIDING-WINDOW MECHANISM. ELECIE P. FARUM, Oakland, Calif., assignor to Leo Gillig and Chester H. Gillig, both of San Francisco, Calif. Filed Aug. 26, 1920. Serial No. 406,172. 6 Claims. (Cl. 296—47.)



1. In combination with a window frame, a track provided in said frame and having an aperture formed therein, a sash slidable longitudinally in said frame,

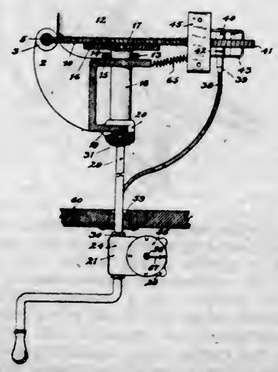
a hanger engaging said track and supporting said sash, and sash clamping mechanism carried by said sash for longitudinal movement therewith adapted to project through said track aperture and force said hanger in tight engagement with said track.

1,473,929. WINDING INDICATOR FOR TALKING MACHINES. LOUIS A. FREEDMAN, New York, N. Y. Filed Jan. 22, 1920, Serial No. 353,306. Renewed Mar. 31, 1923. 2 Claims. (Cl. 185—44.)



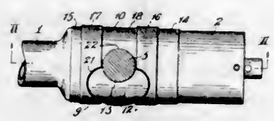
1. A device of the class described comprising a motor, a winding shaft therefor, a gear driven by said motor, said gear having a projecting shaft extending parallel with the winding shaft, a gear casing surrounding both of said shafts, a worm secured to each of said shafts within the casing, an indicator, differential gearing within the casing driven in one direction by rotation of the winding shaft and in an opposite direction by the motor-driven shaft and a connection between said gearing and the indicator.

1,473,930. WINDING INDICATOR FOR TALKING MACHINES. LOUIS A. FREEDMAN, New York, N. Y. Filed Feb. 7, 1921, Serial No. 443,585. Renewed Apr. 5, 1923. 4 Claims. (Cl. 185—44.)



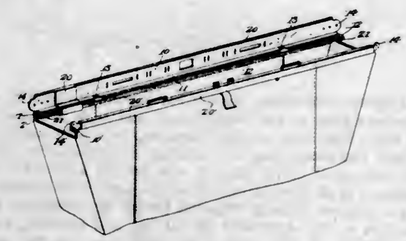
4. A device of the class described comprising a talking machine cabinet, a winding handle extending therefrom, a gear casing supported on said handle outside of the cabinet, differential gearing within said casing, an indicating dial on one of the faces of said casing, a pointing handle driven by the gearing over said dial, a motor driven gear within the cabinet and a driving connection extending between said gear and the differential gearing.

1,473,931. DUSTGUARD FOR DRAG LINKS. HARRY B. GARMAN, Detroit, Mich., assignor to The Steel Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 14, 1921. Serial No. 522,377. 2 Claims. (Cl. 287—90.)



1. The combination with a drag link having a cylindrical socket with an elongated slot therein; of a connecting arm extending into said slot and journaled in said socket; and a dust cap comprising an inner sheet metal clip formed to fit said cylindrical socket throughout more than half the periphery thereof, and having a slot extending circumferentially more than 90 degrees, and an outer clip having a complemental slot therein, said outer clip being wider than said inner clip and provided with depressed end portions adapted to engage said socket beyond the ends of the inner clip, and a central depressed portion adapted to fit in the slot of said inner member, the inner ends of the slots in said clips being adapted to fit about said connecting arm.

1,473,932. METHOD OF CONSTRUCTING HAND BAGS. THEODORE H. GOTISAR, Newark, N. J. Filed Dec. 26, 1922. Serial No. 609,015. 4 Claims. (Cl. 190—49.)



1. The method of making hand bags, comprising forming the body of the bag of leather or the like, forming the jaw frame of straight lengths of L-bars each having in one flange stitch receiving perforations and notches to form miter joints, turning the edges of the bag mouth inward into engagement with the outer faces of the perforated flanges of said L-bars, passing stitching through the turned edges of the bag mouth and the perforated bars, bending the L-bars at the miter-forming notches, and uniting the ends of the frame bars by hinge pins.

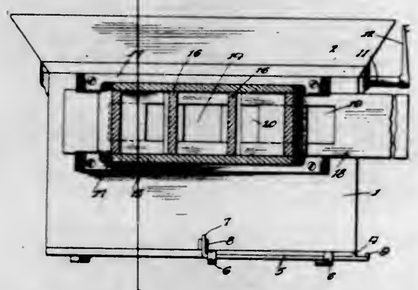
1,473,933. CORN FILE. DAVID H. GREEN, San Francisco, Calif. Filed Jan. 9, 1913. Serial No. 611,559. 2 Claims. (Cl. 132—73.)

1. A toilet article in the form of a corn file, composed of a resilient material having a handle at one end and an active member at the other end, said active member being tapered and of oblong cross-section, and split longi-

tudinally in a plane substantially parallel to its broader sides, and an abrasive fabric encircling said active member and having its edges turned into the said split and held therein by the pinching reaction of the said resilient material.



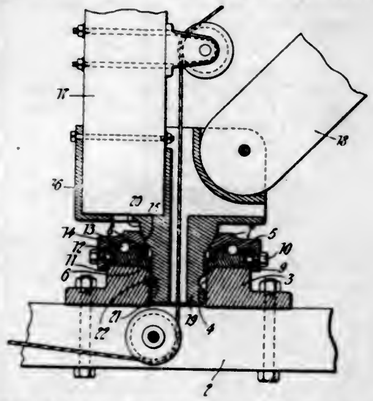
1,473,934. TUYÈRE. HENRY F. HILDEBRANDT, San Antonio, Tex. Filed Feb. 24, 1922. Serial No. 538,986. 1 Claim. (Cl. 110—182.6.)



A tuyère comprising an air box having a plurality of chambers open at their upper ends and each provided in its front wall with an inlet opening, said inlet openings having the same form and area, a nozzle mounted upon the front wall of the air box and having a plurality of passages each leading to one of the said inlet openings, and a damper slidably mounted across the nozzle at the junction of the same with an air box and provided with an opening of the same form and area as the said inlet openings, a longitudinal slot having a length sufficient to extend over two inlet openings, and intervening imperforate portions whereby any one or more of the inlet openings may be covered or uncovered.

1,473,935. DERRICK BASE. JOHN T. HORTON, Brooklyn, N. Y. Filed Aug. 1, 1922. Serial No. 578,991. 5 Claims. (Cl. 212—70.)

1. A derrick base including in combination a base plate having a central vertical opening therethrough and a horizontally arranged ball race about and concentric with said opening, an upper plate having a ball race therein and a vertical central opening therethrough, a row of balls between and seated in said ball races, a spherical bearing in the upper portion of said upper ball race plate concentric with the opening therethrough, a foot piece having a seat therein for a mast, a stem downwardly reaching from said foot piece, and a spherical bearing about said stem adapted for engagement with the spherical bearing of said uper ball race plate, said stem projecting downwardly into the opening in said base plate and being of smaller diameter than said base plate opening whereby limited movement of said stem on its spherical bearing is permitted.

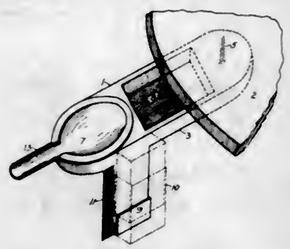


1,473,936. MILK-BOTTLE OPENER. WILLIAM HUGHES, Alameda, Calif. Filed July 3, 1922. Serial No. 572,467. 2 Claims. (Cl. 65—47.)



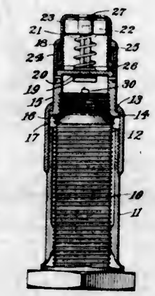
1. A bottle opener comprising a base, a ring handle connected to said base, a prong projecting downwardly and outwardly from one end of said base, a prong projecting straight down from the other end of said base, and a thumb member on the top of said handle.

1,473,937. SMOKER'S ARTICLE. REBEKAH E. RANDY, San Francisco, Calif. Filed Oct. 19, 1921. Serial No. 508,749. 3 Claims. (Cl. 131—51.)



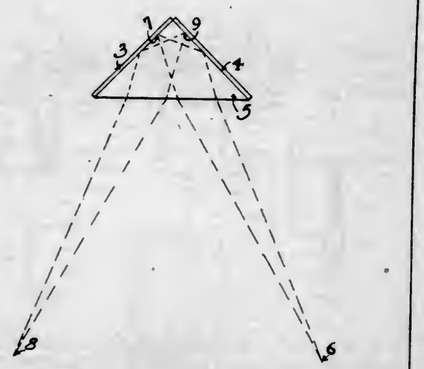
1. A smoker's receptacle comprising a ribbed frame with pivotal securing means at one end, and at the opposite end an opening communicating with a longitudinal channel; said opening and channel adapted to engage a flanged cup provided with a channeled handle, a portion of said handle registering in the frame channel and the remainder adapted to be grasped to turn the device about its pivot, the margin about the said opening being depressed for the reception of the flange of said cup, thereby adapting the top surface of the device to be in one plane for unobstructed turning.

1,473,938. VALVE PROTECTING AND OPERATING DEVICE FOR PNEUMATIC TIRES. WILLIAM R. ROYER, Wilkes-Barre, Pa. Filed May 21, 1920, Serial No. 383,119. Renewed Feb. 21, 1923. 14 Claims. (Cl. 152—12.)



3. The combination with the valve stem of a pneumatic tire, having an air-valve plunger, of an inverted cup mounted on the valve stem, a non-rotatable plunger-operating stem slidable through the top of the cup to depress the air-valve plunger, and a rotatable cap having screw-thread connection with the plunger-operating stem to shift the same longitudinally.

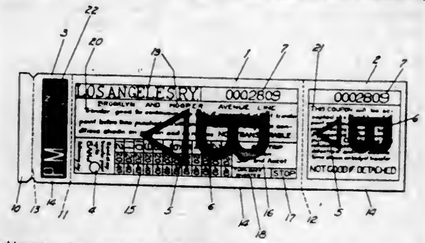
1,473,939. CHANGING-PICTURE ILLUSION DEVICE. HENRY M. RUSSELL, Weeling, W. Va. Filed June 21, 1922. Serial No. 570,011. 4 Claims. (Cl. 88—1.)



2. In a changing picture illusion device, the combination of a triangular prism of transparent material having one of its angles approximately a right angle, a picture representing one half of a symmetrical subject behind one of the sides of said prism adjacent to said approximate right angle, and a picture representing one half of a different symmetrical subject behind the other side adjacent to the said approximate right angle, the said pictures being in contact with the said sides of the prism.

1,473,940. COUPON TRANSFER. ROBERT R. SMITH, Los Angeles, Calif., assignor to Los Angeles Railway Corporation, Los Angeles, Calif. Filed Nov. 21, 1922. Serial No. 602,395. 4 Claims. (Cl. 283—14.)

1. A coupon-transfer book of the class described, the combination of a stub-transfer connected to the said book, adapted to indicate an afternoon transfer; a coupon, adapted to be connected to the said stub-transfer; a letter-symbol means, adapted to indicate the service line and date of the said stub-transfer and coupon, as set forth.

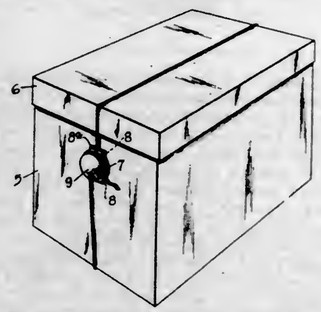


1,473,941. PEEP OPENING FOR WIRELESS-TELEGRAPH RADIO BOXES. HENRY C. STEVENS, Oakland, Calif. Filed Apr. 5, 1922. Serial No. 549,798. 2 Claims. (Cl. 156—14.)



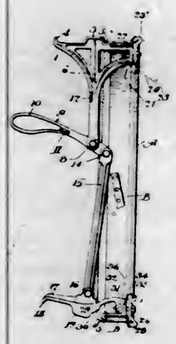
1. A sight opening for a radio box including a shell, a ring, and a screen, the forward end of said shell and said screen being secured to said ring with the screen extending across the opening of said ring, and said shell fitting in the opening in the radio box with said ring engaging the wall of the box.

1,473,942. FASTENING DEVICE. FERDINAND STRAUSS, New York, N. Y. Filed Nov. 4, 1922. Serial No. 598,971. 2 Claims. (Cl. 24—18.)



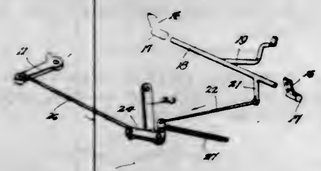
2. A fastening device comprising a substantially convex base member, malleable prongs formed integrally with said base member and adapted for holding the device to a receptacle, a convexo-convex head portion, an eyelet joining said head and base member so that their opposite convex faces are in contact at the centers of said members, a cord, one end of which is fixed in said base member and the other end of which after being passed around the receptacle, is adapted to be held between the opposing convex faces of the head and base members, and slits in the opposing faces of said members whereby the same will be rendered more resilient.

1,473,943. TIRE-HOLDING DEVICE. CHESTER E. STRIFLER, Alhambra, Calif., assignor of one-half to S. Q. Shannon, Los Angeles, Calif. Filed Oct. 9, 1916. Serial No. 124,689. 16 Claims. (Cl. 224—29.)



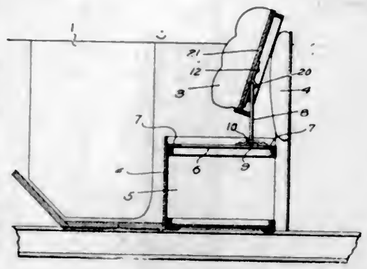
14. A tire holder for automobiles including brackets for supporting a tire and rim, arms carried by said brackets and converging downward, a lever pivoted intermediate its ends between said arms, a tire clamp connected for operation with said lever, said lever being angularly disposed to parallel one of said converging arms, and means for locking said lever to said arm to prevent the removal of a tire and rim from the holder.

1,473,944. ACCELERATOR. JAMES E. TAYLOR, Dallas, Tex., assignor of one-half to Clarence B. O'Beirne, Dallas, Tex. Filed Feb. 15, 1922. Serial No. 536,729. 1 Claim. (Cl. 74—81.)



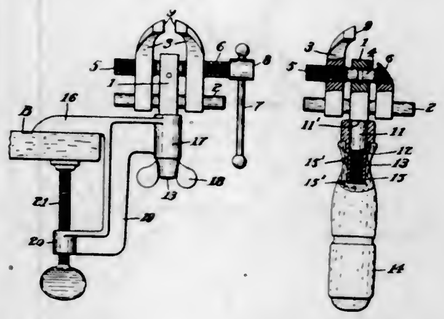
In an accelerator for motor vehicles, the combination of companion brackets for attachment to a vehicle dash at its inner side extending beneath the front floor board of the vehicle and provided at their lower ends with bearings open at their inner ends and closed at their outer ends by end walls, a rock shaft journaled at its ends in said bearings beneath the floor board and limited against longitudinal movement by said end walls, a foot pedal integrally connected to the shaft to extend rearwardly therefrom and offset upwardly near its outer end to rise through a slot in the floor board, an arm pivotally connected to the shaft near one end thereof to depend from the shaft at an acute angle with respect to said pedal, an angle bracket for attachment to the vehicle motor, a bell crank pivoted upon said angle bracket, a rod engageable at one end with the throttle valve lever of the vehicle motor and connected at its opposite end to one arm of the bell crank, a second rod connecting the other arm of the bell crank with the arm of said shaft and provided with a laterally directed terminal engaging through the latter arm of the bell crank, and a spring for attachment at one end to the vehicle dash and engaged at its opposite end with said terminal securing the latter rod against disengagement from the bell crank and normally holding the throttle valve lever at the limit of its movement in one direction.

1,473,945. AUTOMOBILE SEAT. ERNEST C. WHITING, Allston, Mass. Filed Sept. 24, 1921. Serial No. 502,990. 4 Claims. (Cl. 155—115.)



1. In an automobile seat, the combination with a seat frame and a seat back rising therefrom, of a cushion member removably sustained on the seat frame, and links pivoted to the under side of the cushion member near its front edge and having a horizontally-sliding pivotal connection with the seat frame near its rear portion, whereby the cushion member can be raised by lifting the rear edge thereof and then swinging said cushion member upwardly and backwardly against the back, said links operating to support the cushion in its raised position.

1,473,946. COMBINATION HAND VISE. ALBERT W. AMSDEN and WILLIAM D. STARRETT, Athol, Mass., assignors to The L. S. Starrett Company. Filed Nov. 7, 1922. Serial No. 599,578. 2 Claims. (Cl. 81—18.)

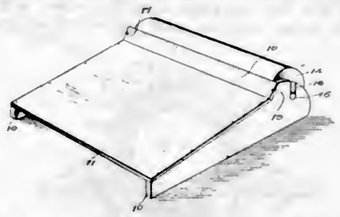


1. In a vise, a shouldered cylindrical supporting stem having an unthreaded cylindrical bearing area adapted for swiveled mounting in a bench clamp having a smooth cylindrical bearing receiving said unthreaded portion of the stem, said stem having below said unthreaded portion a threaded portion of less diameter than said unthreaded portion and which is adapted to fixedly receive an interiorly threaded handle or a clamping nut.

1,473,947. COMPOSITION FOR POLISHES. TILLMAN BAILEY, Nashville, Tenn. Filed Nov. 23, 1920. Serial No. 426,067. 4 Claims. (Cl. 134—24.)

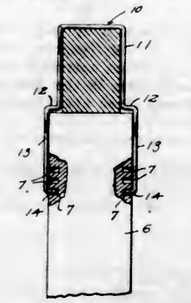
1. The herein described process of making a polish, consisting in the following steps: mixing Bon Ami powder with distilled water to form a lather mixture, combining gasoline with the lather mixture, forming a mixture composed of oil of sassafras, kerosene, turpentine and Sinclair motor oil, combining the oil mixture with the lather mixture and agitating the combined mixtures, and finally decanting to clear away sediment.

1,473,948. CALCULATOR. ANDREW LEE BECK, Orlando, Fla. Filed Sept. 7, 1922. Serial No. 586,750. 2 Claims. (Cl. 235—87.)



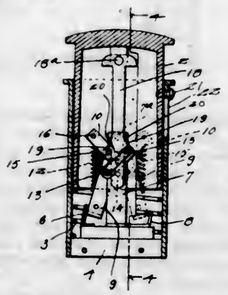
1. A calculator comprising a frame, a chart bearing cylinder rotatably mounted on the frame, a combined indexing and retaining bar secured to the frame and cooperable with the cylinder.

1,473,949. DRIVING-BOX-SHOE HANGER. LINAS BERG, Coleraine, Minn. Filed Nov. 10, 1922. Serial No. 600,070. 3 Claims. (Cl. 29—84.)



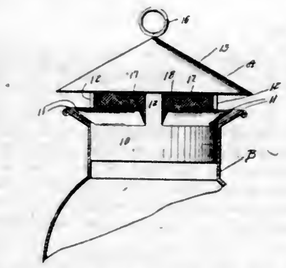
1. A driving box shoe hanger comprising a resilient U-shaped member adapted to embrace the under frame of a locomotive and having extensions at its ends adapted to be engaged with the driving box shoe.

1,473,950. ELECTRIC SWITCH. CLARENCE D. BOTTOMLEY, Charlotte, Mich. Filed Dec. 21, 1921. Serial No. 523,924. 4 Claims. (Cl. 200—68.)



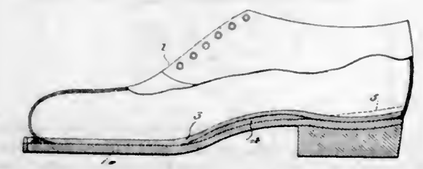
1. An electric switch comprising a base of insulating material, spaced contacts mounted upon the base, a standard carried by the base, a switch member pivoted to the standard, a trip comprising a cross bar and a yoke and pivoted to said standard and having projections upon opposite sides of an axial line, a contractile helical spring connecting the yoke portion of the trip with the swinging end of the switch member, a plunger, and a finger carried by the plunger and extending between the projections of the pivoted trip and provided with opposed shoulders having their outer edges inclined.

1,473,951. MILK-CAN CLOSURE. JOHN H. BRIEHL, Stitzer, Wis. Filed May 8, 1922. Serial No. 559,348. 2 Claims. (Cl. 31—77.)



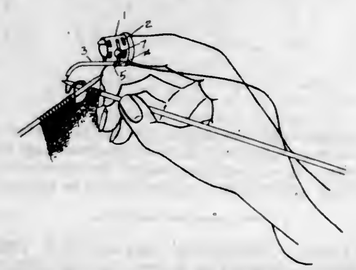
1. A closure provided with a rim, the rim having a plurality of flanges integral therewith and struck therefrom, said flanges being disposed outwardly and upwardly, securing struts intermediate the flanges and ventilating openings between the struts, and a cap plate supported by said struts above said flanges and in spaced relation thereto.

1,473,952. CUBOID-SUPPORT SHOE. WILLIAM C. BURNS, Albany, Oreg. Filed Sept. 7, 1921. Serial No. 498,999. 1 Claim. (Cl. 36—71.)



A shoe having an insole whose outer edge is straight from the portion thereof on which the base of the little toe of the wearer's foot rests to the extreme outer edge of the heel portion of the wearer's foot that rests on the insole, and a rigid cuboid support lasted in the shank of said shoe to receive thereon the direct pressure of the cuboid bone and the muscles that hold said bone in place and to exert a greater pressure thereagainst than is exerted thereby against any other part of the arch of the foot.

1,473,953. THIMBLE. ERIC DART, Kelowna, British Columbia, Canada. Filed Mar. 28, 1922. Serial No. 547,526. 5 Claims. (Cl. 223—51.)



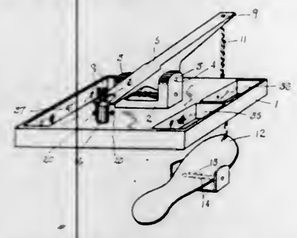
1. In a thimble for knitting, the combination with the thimble body, a tubular member carried by the body through which the thread to be knitted has passage, and variable tensioning means disposed to act upon that portion of the thread passing through the tube.

1,473,954. GAME APPARATUS. GEORGE C. EASTON, Ridgewood, N. J. Filed Sept. 18, 1922. Serial No. 588,820. 10 Claims. (Cl. 46—59.)



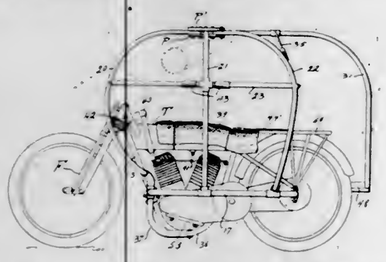
1. A game apparatus, comprising, in combination, a flexible member maintained in taut condition, a goal supported adjacent to one end of said flexible member and having an opening out of alignment with the flexible member, and a ball tethered to said flexible member and adapted to be driven along the same and through said goal.

1,473,955. BUTTON STRINGER. FRANK L. EBERLEY, Whitesboro, N. Y., assignor of one-half to McLoughlin Textile Corporation, Utica, N. Y., a Corporation of New York. Filed Apr. 19, 1921. Serial No. 462,774. 4 Claims. (Cl. 112—2.)



1. In a button stringer, hooks adapted to hold a tape, a lever adapted to rock adjacent said hooks, and means for causing said lever to elevate a button, whereby said hooks will draw said tape therethrough.

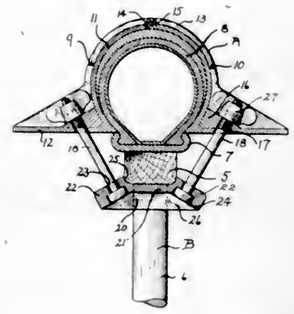
1,473,956. ATTACHMENT FOR MOTOR CYCLES. HARRY G. EYRE and CLEO H. CRITES, Topeka, Kans. Filed June 21, 1922. Serial No. 569,825. 21 Claims. (Cl. 208—150.)



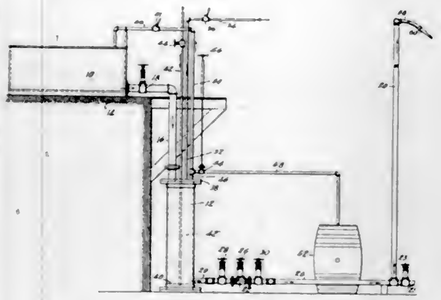
1. A motorcycle attachment for use in playing games comprising a protecting and shock receiving cage adapted to receive and substantially enclose the motorcycle, said cage being substantially circular in cross section.

1,473,957. TRACTION DEVICE FOR VEHICLE WHEELS. CHARLES C. HUSTON, Dayton, Ohio. Filed June 7, 1922. Serial No. 566,548. 2 Claims. (Cl. 301—44.)

2. In a traction device for vehicle wheels, a pair of companion sections each including arcuate tire engaging body portions and outwardly extending flat bearing plates, the opposite edges of the sections being provided with flanges, means pivotally connecting the sections together, bearing lugs formed on the sections at the point of juncture of the arcuate tire engaging body portions and the outwardly extending plates, said bearing lugs being provided with oppositely directed inwardly extending openings, a felly engaging retaining member including a body portion, and laterally extending oppositely inclined apertured ears, bolts extending through the apertures in the ears and the openings in the lugs, and nuts fitted upon said bolts arranged to engage said lugs.



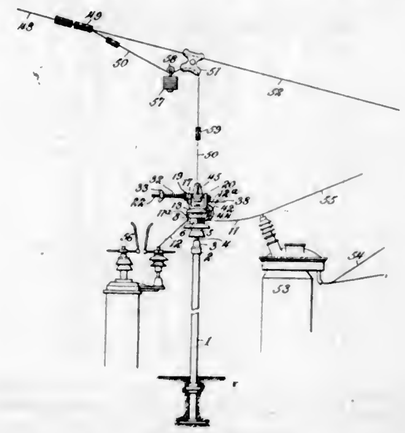
1,473,958. APPARATUS FOR CONVEYING PLASTIC MATERIAL. MORRIS R. JOHNSON, Birmingham, Ala. Filed Oct. 17, 1922. Serial No. 595,210. 5 Claims. (Cl. 91—44.)



1. In an apparatus of the class described, a box in which plastic material to be conveyed is mixed and stored, a cylinder communicating with said box, means for controlling the passage of said plastic material between the box and the cylinder, means for applying fluid pressure to the material in said cylinder to discharge it therefrom, piping connected to said cylinder to convey the material to a remote discharge point and means to indicate to the operator that the cylinder has been charged to full capacity.

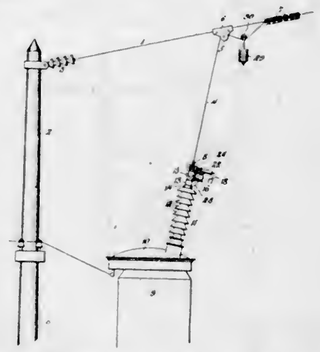
4. In an apparatus of the class described, a box for holding a supply of plastic material, a cylinder connected thereto, means controlling communication between the box and the cylinder, means for supplying compressed air to the cylinder to discharge the material, a discharge pipe connected to said cylinder and having a check valve to prevent back flow of the material, a by-pass around said check valve and valves for controlling the flow of material through said by-pass so that if the check valve becomes clogged the opening of said last named valves will permit the interrupted discharge of material.

1,473,959. CIRCUIT-OPENING DEVICE. TOMLINSON FORT JOHNSON, Jr., Atlanta, Ga. Filed Aug. 16, 1919. Serial No. 318,026. 12 Claims. (Cl. 175—294.)



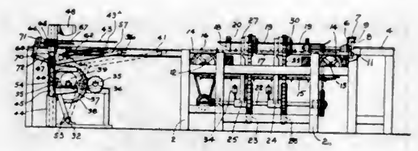
1. A circuit opening device, comprising a member for attachment to a line wire, holding means for said member having a normal tendency to release it, a latch for retaining the holding means against its normal tendency, and means for holding the latch, actuated by an abnormal rise of current to release the latch.

1,473,960. THROW-OFF CIRCUIT-BREAKING SWITCH FOR SKEET HEADS. TOMLINSON FORT JOHNSON, Jr., Atlanta, Ga. Filed May 13, 1920, Serial No. 381,135. Renewed May 2, 1923. 3 Claims. (Cl. 173—324.)



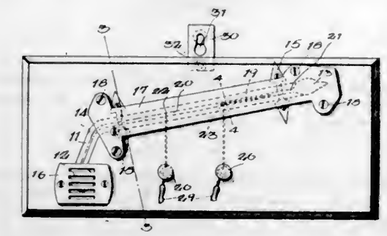
3. The herein described circuit breaking means for installation between a high tension transmission line and a translating device, comprising a yoke adapted to be mounted on the translating device and provided with legs for inclusion in the circuit thereto, a rod adapted to traverse the legs of the yoke, a terminal adapted to be carried by a flexible conductor and constructed to be traversed by said rod, electro-magnetic means carried by the yoke and supplied with current from the main line through the flexible conductor, means for imparting to the rod a normal tendency to move toward one position to release the terminal, and a latch responsive to energy developed in the electro-magnetic means on the passage of an abnormal current therethrough to release the rod to its normal tendency.

1,473,961. FISH-TRIMMING MACHINE. DOUGALD MCPHEE, Rivers Inlet, British Columbia, Canada. Filed Feb. 16, 1923. Serial No. 619,409. 13 Claims. (Cl. 17—3.)



1. In a fish trimming machine, an endless conveyor, means upon the conveyor for engaging a side of the fish when it is set longitudinally thereon, yieldable means for holding the fish in contact with said engaging means, and means as the fish is carried on the conveyor for automatically severing the fins.

1,473,962. THERMOSTATIC CIRCUIT CLOSER. MCCORMACK C. MCPHERSON, Hammond, Ind. Filed Aug. 12, 1922. Serial No. 581,448. 1 Claim. (Cl. 200—141.)

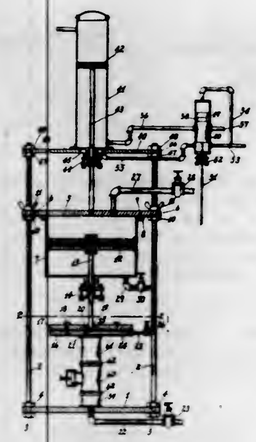


A thermostatic circuit closer comprising a panel board having an upwardly inclined groove in its outer face extending in a general horizontal direction, a thermometer tube seated in the groove substantially flush with the outer face of the panel board and with its bulb in the lower end thereof, protecting means secured to the outer face of the panel board over the bulb and the tube for housing the same, fixed contacts blown into the lower side of the tube and projecting into the adjacent wall of the groove of the panel board, a non-conducting column of liquid in the lower end of said tube, a column of mercury arranged in the tube above said non-conducting liquid for bridging said contacts when a predetermined low temperature is reached, said panel board having channels therein leading downwardly from said contacts, wires extending from the contacts downwardly through said channels, binding posts mounted on the outer face of the panel board and terminating at their inner ends in the lower ends of said channels and connected to said wires, the lower end portions of said channels opening through the rear face of the panel board to permit connection of the wires to the binding posts, and a covering plate secured over the rear face of said panel board for housing in the wires and the inner ends of the binding posts.

1,473,963. ADJUSTMENT ATTACHMENT FOR HYDRAULIC TESTING APPARATUS. FRANK P. MILLS, Berkeley, Calif. Filed Jan. 24, 1921. Serial No. 439,638. 3 Claims. (Cl. 73—51.)

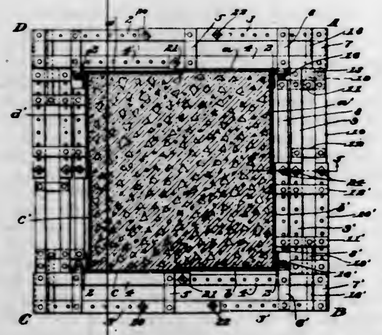
1. In combination with a hydraulic testing apparatus, including a pressure cylinder and a press head, a piston in said cylinder, a rod secured to said piston and said press head, and means to exert pressure on either side

of said piston, means for raising and lowering the pressure cylinder and press head of said apparatus, and



means for securing said cylinder at different elevations whereby said cylinder and press head may be adjusted to accommodate various sizes of work.

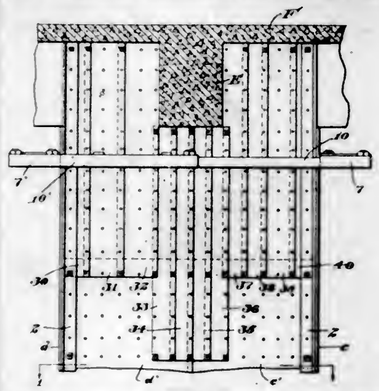
1,473,964. ADJUSTABLE CONCRETE FORM. CHARLES F. MOORE, Cambridge, Mass. Filed Sept. 18, 1920. Serial No. 411,092. 4 Claims. (Cl. 25—131.)



2. An adjustable form for concrete columns of polygonal cross section comprising a plurality of plates for supporting the vertical faces of a column, a truss-like frame supporting said plates and adjustable to vary the cross sectional dimensions of the space enclosed by said plates, said frame comprising a plurality of truss sections each including a pair of parallel bars spaced apart, and members rigidly connecting said bars together.

1,473,965. ADJUSTABLE CONCRETE FORM. CHARLES F. MOORE, Philadelphia, Pa. Filed Oct. 6, 1922. Serial No. 592,729. 10 Claims. (Cl. 25—131.)

1. In an adjustable form for concrete columns, a series of plates forming a support for one vertical face of a column, and means for securing said plates together in overlapping relationship and enabling them to

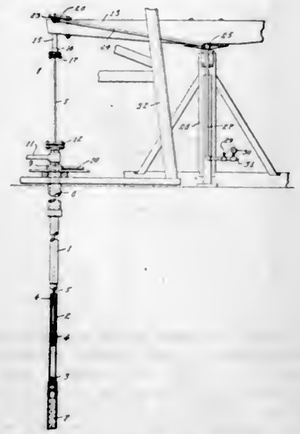


be adjusted to provide in said support a beam opening adjustable in dimensions both vertically and laterally.

1,473,966. PROCESS OF MANUFACTURING A COMPOSITION CONTAINING ANHYDROUS MAGNESIUM CHLORIDE. ICHITARO NAMARI, Sakai, Osaka Fu, Japan, assignor to Minami Manshu Tetsudo Kabushiki Kaisha, Tairen, Kwanto Shu, China. Filed Jan. 29, 1921. Serial No. 441,088. 5 Claims. (Cl. 23—13.)

1. The process of manufacturing a composition containing anhydrous magnesium chloride which consists in fusing magnesium oxide by adding thereto a chloride the base of which is electro-positive to magnesium, and ammonium chloride.

1,473,967. PROCESS OF ELEVATING LIQUIDS FROM GREAT DEPTHS. FRANK I. NEVILL, Houston, Tex. Filed Apr. 29, 1922. Serial No. 557,310. 2 Claims. (Cl. 103—5.)



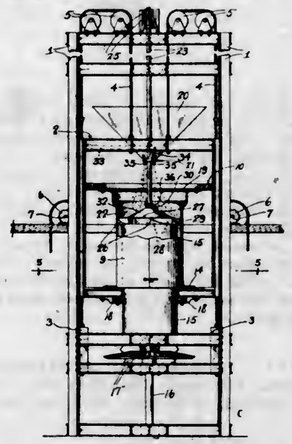
1. The process of elevating liquids from extreme depths which comprises, initiating an intermittent discharge from the liquid source in a discharge column and converting the intermittent discharge into a continuous aerated stream by discharging an expansible fluid under pressure continuously into the discharging column near the normal liquid level, whereby to accelerate the delivery of the liquid and materially reduce the hydrostatic pressure in the discharge column.

1,473,968. ADJUSTER FOR WELL-PUMPING APPARATUS. FRANK I. NEVILL, Houston, Tex. Filed May 18, 1922. Serial No. 560,551. 24 Claims. (Cl. 255—18.)



1. An adjuster member for combined reciprocating and air lift pumps having a fluid conducting channel therein adapted for fluid connection with the sucker rod of the pump.

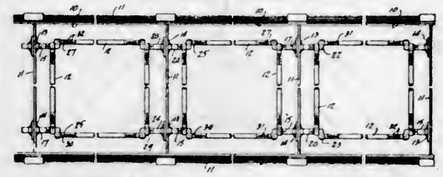
1,473,969. CONCRETE-PIPE-MAKING MACHINE. CLIFFORD R. NICHOLS, Dallas, Tex. Filed July 21, 1922. Serial No. 576,405. 5 Claims. (Cl. 25—36.)



1. An apparatus of the class described comprising a supporting frame, a vertically movable cage in the frame, a cylinder forming the inner member of a mold, means for rotating the cylinder, a jacket forming the outer member of the mold detachably supported by the cage and a molding head detachably connected with the top of the cylinder so as to rotate therewith and having compression flanges for compressing the material in the mold.

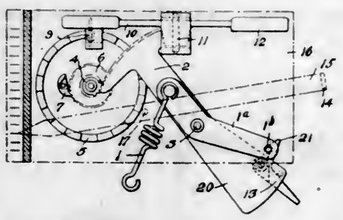
1,473,970. FARROWING PEN. WILLIAM C. NUTT, Castana, Iowa. Filed Dec. 4, 1922. Serial No. 604,781. 4 Claims. (Cl. 119—16.)

1. In combination with the side walls of a farrowing pen and side bars paralleling each of said side walls in spaced relation to the walls and the floor of the pen, of a bracket attached to each of the side walls adjacent one end thereof, the brackets being arranged at corresponding ends of the side walls, the side bars embodying adjustable end portions adapted for detachable engagement with said brackets, each of said brackets extending outwardly from the wall to which it is



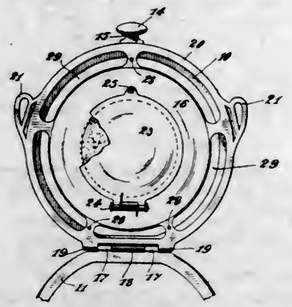
attached and being provided at its end with a portion directed toward a further side wall of the pen connecting with the side wall to which it is attached at that end of the last named side wall at which the bracket is attached.

1,473,971. RETARDING DEVICE FOR TIME SWITCHES. WILHELM HENNING PETTERSÉN, Ludvika, Sweden. Filed May 26, 1921. Serial No. 472,849. 6 Claims. (Cl. 74—88.)



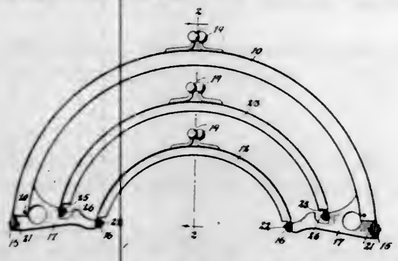
1. In retarding devices for time switches, an escapement wheel and a swinging anchor, which is balanced with respect to its fulcrum and engages the wheel from two opposite sides under equal angles of engagement.

1,473,972. BAG FRAME. ROBERT L. PRAHAR, Brooklyn, N. Y. Filed Dec. 30, 1921. Serial No. 525,924. 5 Claims. (Cl. 150—34.)



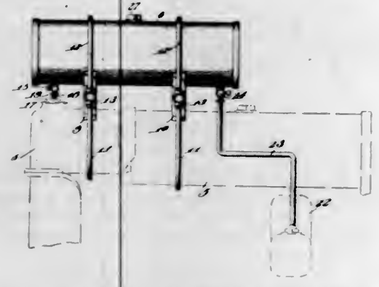
4. A bag frame including a pair of frame members, an imperforate sheet metal partition therebetween pivotal connections between said frame members and said partition to permit the latter to swing between said frame members when the frame is open, interengaging catch parts on said frame members, said partition having a comparatively thin outer edge projecting beyond and adapted to be clamped in position between the outer edges of said frame members when the catch parts are engaged, portions of said edge forming projecting ears for the attachment of the handle.

1,473,973. BAG FRAME. ROBERT L. PRAHAR, Brooklyn, N. Y. Filed Jan. 19, 1922. Serial No. 530,303. 6 Claims. (Cl. 150—29.)



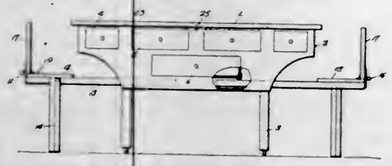
1. A bag frame including a pair of outer jaws, a pair of inner jaws, eyelets serving as a pivot connection between the jaws of one pair and a pair of members secured to the other pair of jaws and having pivot pins projecting into said eyelets to support the pair of jaws having said eyelets, said eyelets being removable from said pivot pins upon a bending of one pair of jaws in respect to the other.

1,473,974. TANK. JESS D. PYLE, Norwich, Kans. Filed Feb. 27, 1923. Serial No. 621,617. 1 Claim. (Cl. 137—21.)



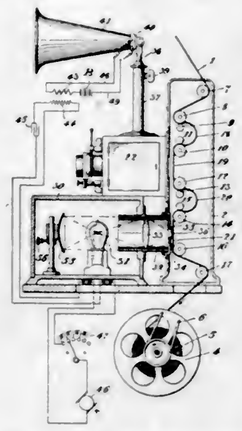
In combination with the radiator of a tractor, a tank supported above the radiator, a pipe in communication with the tank, said pipe being threaded to receive a threaded sleeve, a cap having an opening to receive the sleeve, and a coiled spring engaging the cap and supported on the sleeve for forcing the cap into engagement with the radiator, said sleeve adapted to be adjusted over the threaded pipe to tension the spring, and a valve for controlling the passage of fluid to the radiator.

1,473,975. TABLE. WILLIAM REID, Wenatchee, Wash. Filed Apr. 26, 1921. Serial No. 464,614. 1 Claim. (Cl. 45—31.)



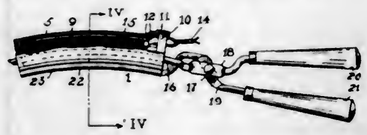
In a table of the class described, a body member having bars mounted to slide longitudinally through the ends thereof, said bars being arranged adjacent opposite sides of said body, seats pivotally mounted at one corner on the outer end of said bars to adapt them to swing in horizontal planes, hinged legs mounted to support said seats in open position, a back hinged to each seat portion and adapted to fold inwardly flat against said seat, upstanding members carried by the outer ends of said seats in advance of said hinged back, said members being constructed to simulate drawers and adapted to operate as a support for the back when in operative position.

1,473,976. SOUND-RECORDING METHOD. ELIAS E. RIES, New York, N. Y., assignor to American Audioscope Co., Inc., a Corporation of New York. Original application filed May 21, 1913, Serial No. 769,114. Divided and this application filed Apr. 6, 1923. Serial No. 630,197. 19 Claims. (Cl. 88—16.2.)



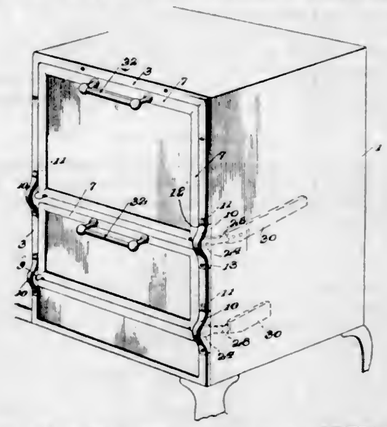
1. The method of recording sound photographically, which consists in moving a body having a surface sensitive to light across the back of a screen having a small aperture, limiting the area of exposure to the area of the aperture, and varying the degree of exposure in accordance with sound waves impressed upon a sound translating device, whereby said sensitized surface when developed will present a continuous line or band having alternating sections of varying degrees of density or translucency throughout its length, the opposite extremes of density indicating the peaks of continuous waves corresponding to the sound waves impressed upon the sound translating device.

1,473,977. HAIR-WAVING APPARATUS. OTTO SCHAUMBERG, Pittsburgh, Pa. Filed Dec. 5, 1921. Serial No. 520,092. 9 Claims. (Cl. 219—24.)



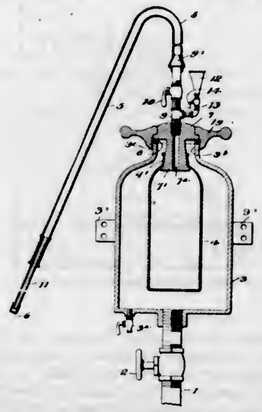
4. An electrical hair waving apparatus comprising a W-shaped corrugated base arcuate in the direction of its length, a pair of pivotally connected elements, one of said elements including a tine arcuate in the direction of its length and secured in one of the corrugations of the base, the other of said elements including a pair of tines adapted to be shifted into the other corrugations of the base and co-operating with the walls thereof and each arcuate in the direction of its length, and an electric heating element secured at one end with one end of the base and extending lengthwise of the corrugations in which a tine is secured.

1,473,978. DOOR AND FRAME CONSTRUCTION. ERNEST SCHMALE, Belleville, Ill., assignor to Belleville Stove and Range Company, Belleville, Ill. Filed Sept. 20, 1922. Serial No. 589,430. 2 Claims. (Cl. 126—191.)



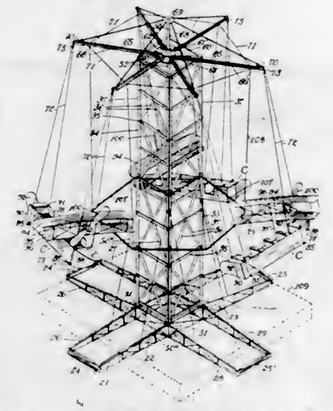
1. In a door and frame construction, a vertically disposed frame having an opening therein, said frame having vertical slots in the side portions thereof adjacent to the lower end of the opening, a door having trunnions extending in axial alinement with respect to each other from the lower corner portions thereof, bearing caps adapted to be attached to said frame in position to cover the vertical slots in the latter and having notches in their proximate walls through which the trunnions may extend, said bearing caps having horizontal shoulders on their inner walls, latch members secured to the end portions of said trunnions and being housed in said bearing caps, said latch members having projecting portions on the periphery thereof adapted to engage the horizontal shoulders of the bearing caps when the door has been swung downwardly to horizontal position, and an arm extending from one of said latching members through one of said slots and being weighted at its end remote from the latching member.

1,473,979. APPARATUS FOR APPLYING LIQUIDS. LEO SIMMONS, Washington, D. C. Filed Nov. 7, 1921. Serial No. 513,574. 6 Claims. (Cl. 128—229.)



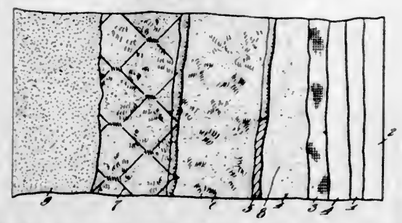
1. A liquid expelling apparatus comprising a closed pressure tank, means for introducing fluid under pressure into said tank, and a compressible liquid container exposed to the pressure in said tank for compressing the container to expel liquid therefrom, said container having a controlled liquid discharge and an exteriorly accessible valved filling device carried by said tank.

1,473,980. AEROPLANE SWING. HARRY G. TRAVER, Beaver Falls, Pa. Filed Feb. 7, 1920. Serial No. 356,881. 11 Claims. (Cl. 46—27.)



1. In an aeroplane swing a collapsible tower comprising telescoping sections; a sectional shaft one shaft section adapted to be rotatably mounted in each tower section and the shaft section coupled co-axially; a head having a hub portion whereby it is fixed to the shaft and having radially extending recesses and sockets therein; and car carrying arms removably supported at one end in the head recesses and sockets and their outer ends trussed from the shaft.

1,473,981. WALL BOARD. JESSE W. WAGNER, Silverdale, Kans. Filed Nov. 2, 1922. Serial No. 598,607. 6 Claims. (Cl. 154—45.9.)

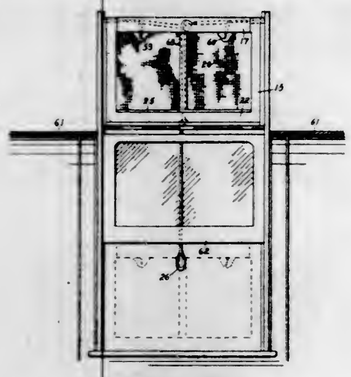


6. A composition wall board including a paper backing, a layer of coarse textile fabric, spaced furring strips upon the fabric and consisting of twisted fibers, an open mesh wire fabric resting on and bridging the spaces between the furring strips, a binder consisting of asphalt and asbestos fibers saturating the textile fibers and furring strips and connecting together said fabric, backing, strips and wire fabric, fibers adhering to the binder and extending between and beyond the strips, and finely comminuted stone adhering to the binder between the fibers.

1,473,982. SHEET-METAL WINDOW SCREEN FOR RAILWAY CARS. WILLIAM W. WATSON, Jamestown, N. Y. Original application filed Mar. 21, 1921, Serial No. 471,465. Divided and this application filed Oct. 19, 1922. Serial No. 595,669. 3 Claims. (Cl. 156—14.)

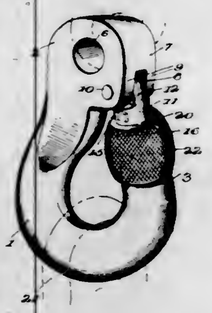
2. A locking device for a window screen comprising spring actuated locking bolts in the upper corners of the screen frame, tubular barrels for said locking bolts, a

crank plate pivotally mounted within the central portion of the upper side of the screen frame and connected to said locking bolts to retract the same when oscillated in one direction, a tubular central cross rail in said frame,



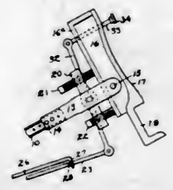
and a rod attached to said crank plate and extending through said tubular central cross rail to retract said bolts from locking position by a downward pull on said rod.

1,473,983. SAFETY BUTT HOOK. VIRGIL DOLPHINEOUS WHITE, Cottage Grove, Oreg., assignor of one-half to Walter A. Woodward, Cottage Grove, Oreg. Filed Feb. 8, 1923. Serial No. 617,816. 3 Claims. (Cl. 24—238.)



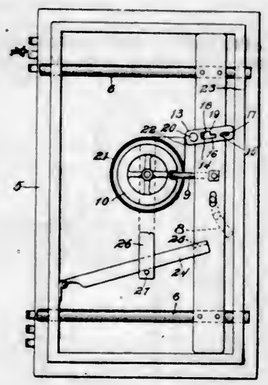
3. A safety hook comprising a body having a shank portion formed with a head portion at one end and with a bill at the other end, said head portion having an enlargement in confronting relation to the end of the bill and said bill having the end portion thereof reduced diametrically, said enlargement being fashioned to provide a pair of spaced apart ears, a latch member having a tongue portion at one end insertible between said ears and being swingingly attached to the latter so that said latch member may be swung to and from position to close the space between the end of the bill and the enlargement and in axial alignment with the end portion of the bill, said latch member being circular in cross sectional contour and having a flange at the free end thereof equal diametrically to the reduced end portion of the bill, a sleeve having a bore adapted to slidably and rotatably receive said latch member and having a counterbore adapted to receive said flange and said reduced end portion of the bill, said sleeve having a longitudinally extending groove in its inner wall extending the entire length thereof, and a radial projection on the latch member in position to engage with the end of the locking sleeve remote from the bill when the locking sleeve is in overlapping relation to the reduced end portion of the bill to releasably hold said locking sleeve against movement longitudinally of the latch member, said projection being adapted to enter said groove in the inner wall of the sleeve when the latter has been rotated to a certain position to permit longitudinal movement of the sleeve out of engagement with the reduced end portion of the bill, the transverse area of said locking sleeve being greatest intermediate its ends and decreasing regularly toward its ends.

1,473,984. COMBINED BRAKE AND THROTTLE PEDAL. GEORGE BAILHE, Fort Wayne, Ind. Filed Feb. 11, 1920. Serial No. 358,007. 4 Claims. (Cl. 74—81.)



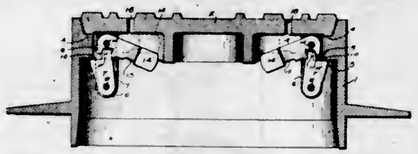
1. In a motor vehicle, a brake lever, a carburetor throttle operating lever, a foot pedal mounted on the brake lever, a push element having an operative connection to the throttle operating lever and arranged adjacent to the pedal and adapted to be engaged by the foot while resting on the pedal and depressed without moving the foot pedal for opening the throttle, and adapted to be simultaneously operated with the pedal by the foot for closing the throttle and applying the brakes.

1,473,985. VAULT OR SAFE LOCKING MECHANISM. BUFORD A. BOYER and ALBERT KROFFT, Hemple, Mo. Filed Dec. 9, 1921. Serial No. 521,156. 5 Claims. (Cl. 109—3.)



1. In a device of the class described, the combination with locking mechanism including sliding bolts, an arm movable therewith and a notched disk in the path of travel of said arm; of a stop member movable with the bolts and operable automatically upon full retraction of the same to prevent said arm moving from engagement with said notched disk and to prevent the bolts from moving to fully locked position.

1,473,986. LOCKING DEVICE. CHALMERS S. BROWN, Lima, Ohio. Filed May 12, 1922. Serial No. 560,402. 5 Claims. (Cl. 220—55.)

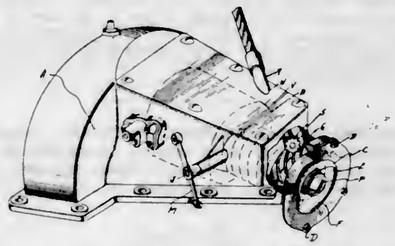


1. A locking device for man hole covers comprising a latch pivoted to said cover and adapted to swing outwardly by gravity, and a control member engaging said latch to limit its outward movement and retain it in an operative position.

1,473,987. WATER-RESISTANT GLUE. WILLIAM A. DRUSHEL, Grand Rapids, Mich., assignor to Haskelite Manufacturing Corporation, Grand Rapids, Mich. Filed Mar. 12, 1919. Serial No. 282,185. 7 Claims. (Cl. 87—17.)

1. A water resistant glue or cement comprising casein 65 to 75 parts, lime hydroxide 27 to 20 parts, sodium hydroxide 6 to 3 parts, sodium fluoride 2 parts, and from 3 to 20 parts of a 40% to 45% strength solution of silicate of soda, the same having the quality of remaining in fluid or pasty condition for a period of several hours.

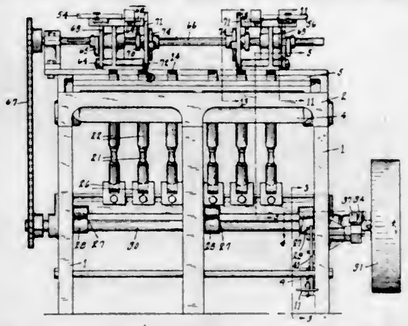
1,473,988. MECHANISM FOR CONNECTING THE SPEEDOMETER WITH THE POWER SHAFT OF A MOTOR VEHICLE. JAMES ARTHUR GOODSELL and STARR A. DOVEY, Hudson, Mich. Filed Oct. 30, 1922. Serial No. 597,777. 3 Claims. (Cl. 74—7.)



1. In combination with a planetary transmission mechanism, a detachable end closure for the enclosing shell thereof coaxially disposed with respect to the shaft of said planetary transmission mechanism, a rotatable sleeve provided with a peripheral worm gear clearingly engaging about the end of said planetary transmission mechanism within said coaxially disposed end closure, and a gear wheel operatively connected with an external member and rotatively supported in position for its teeth to be engaged by the worm on said sleeve.

1,473,989. CUSHION-SPRING-ASSEMBLING MACHINE. JOACHIM T. HOLTPOTH, Highland Park, Mich., assignor to L. A. Young Industries, Incorporated, Detroit, Mich. Filed May 15, 1922. Serial No. 561,192. 17 Claims. (Cl. 29—87.1.)

1. In a structure of the class described, the combination with the frame, of a bed mounted thereon, a swinging head mounted on said bed, sets of relatively fixed upper jaws adjustably mounted on said bed and on said head, a spring supporting bar disposed in a plane between said sets of jaws, spring supporting plates adjustably mounted on said bar, sets of lower jaws movably mounted on said bed and head to coact with said upper jaws, actuating links for said lower jaws, a thrust bar on which said links are pivotally mounted, a driving shaft provided with actuating eccentrics for said thrust bar, driving means for said shaft including a clutch, an actuating



lever, connections therefor to said head whereby the head is actuated to move the jaws mounted thereon towards the jaws mounted on said bed, and clutch control means operatively associated with said actuating lever.

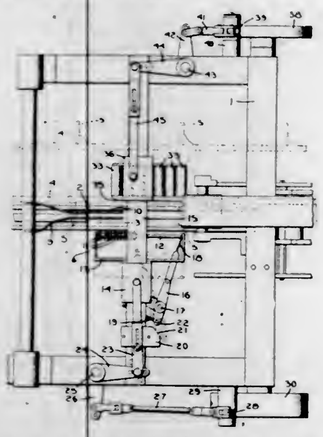
1,473,990. CEMENT MIXER. FREDERICK W. HUBER, Riverside, Calif. Filed Apr. 3, 1923. Serial No. 629,603. 12 Claims. (Cl. 83—73.)

1. A mixing device comprising an upright substantially cylindrical mixing chamber, a lateral outlet conduit having therein a constricted zone, means for introducing a jet of liquid at high velocity into said upright mixing chamber, such introduction being in the direction of flow of the mass at the point of such introduction, means for delivering solid pulverulent material directly into said mixing chamber.

1,473,991. BELT BUCKLE. ERNEST N. HUMPHREY, New Britain, Conn. Filed Dec. 9, 1922. Serial No. 605,816. 3 Claims. (Cl. 24—75.)

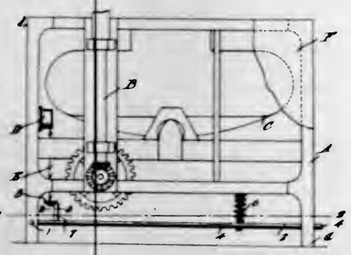
1. A belt buckle formed of two sheet metal members, one of said members having a hook thereon, the other of said members having a slot therein for receiving said hook, an integral projection on the hook member at the bend thereof for frictionally engaging the wall of the slot in the other member when the said members are engaged, said projection serving to prevent accidental disengagement of the two members.

1,473,992. PACKAGE-SEALING MACHINE. HARRY L. JOHNSON, Jamaica Plain, Mass., assignor to Percy E. Ginn, Jamaica Plain, Mass. Filed Nov. 28, 1922. Serial No. 603,792. 8 Claims. (Cl. 93—2.)



1. In a carton-sealing machine, the combination with means for conveying cartons to be sealed, of a flap-folding device freely rotatable about an axis parallel to the direction of movement of the carton and also freely movable in an axial direction, and means to move said device bodily in a direction transverse to the direction of movement of the cartons and in timed relation therewith to cause said device to engage and fold a flap of the carton.

1,473,993. SAFETY ATTACHMENT FOR WASHING MACHINES. HOWARD F. KUHNS, Allentown, Pa. Filed Jan. 12, 1923. Serial No. 612,243. 2 Claims. (Cl. 74—81.)

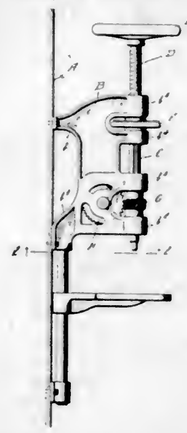


1. The combination with a washing machine, and a switch for controlling the same, of a yieldingly supported structure connected movably to the machine and having foot rails supported outwardly beyond the planes of the sides and one end of the machine, and means operated by the depression of the foot rails for actuating the switch to shut off the current to the machine.

1,473,994. METHOD OF PRODUCING BLASTING CARTRIDGES CAPABLE OF ABSORBING LIQUEFIED GASES. LEOPOLD LISSE, Berlin, Germany. Filed July 19, 1920. Serial No. 397,552. 5 Claims. (Cl. 102—6.)

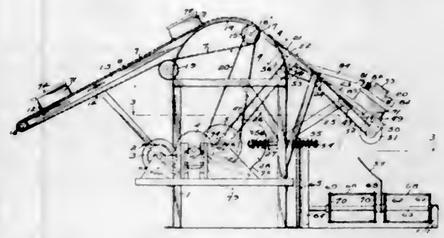
1. A method of manufacturing liquid air blasting cartridges consisting in shaping and uniting the carbonaceous and other explosive constituents so as to form a caseless, porous cartridge body capable of absorbing the liquid air or oxygen necessary for its explosion.

1,473,995. DRILLING MACHINE. CHARLES B. LONG, Lancaster, Pa., assignor to Champion Blower & Forge Company, Lancaster, Pa., a Corporation of Pennsylvania. Filed June 15, 1921. Serial No. 477,650. 1 Claim. (Cl. 77—20.)



A drilling machine comprising a supporting frame having a main body portion provided with means for attaching it to a vertical wall or other fixture; said body portion having upper and lower pairs of forwardly projecting arms, and a hollowed out portion rearwardly of the free ends of the lower pair of arms, said arms having alined apertures therein, a spiral driving gear housed in said hollowed out portion, a feed screw and connected drill spindle fitted in the apertures in said arms, and a spiral driven gear confined on said spindle between said lower pair of arms in mesh with said spiral driving gear.

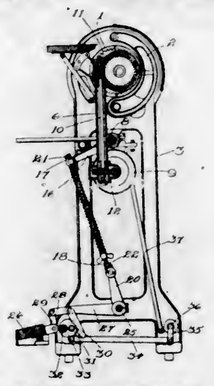
1,473,996. BREAD-DUMPING MACHINE. JOSEPH A. MCGARRY, Toledo, Ohio, assignor of one-half to John P. O'Rourke, Toledo, Ohio. Filed Aug. 25, 1922. Serial No. 584,196. 12 Claims. (Cl. 214—1.)



1. In a bread dumping machine, a table, a conveyor for conveying pans containing bread from the oven to the table, means retaining the pans in position until they may be moved synchronously with the operation of the machine, magnets for engaging and holding the pans, a bumper for jarring the bread from the pans while the pans are being held by the magnets.

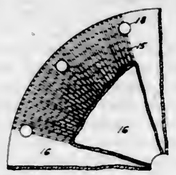
1,473,997. IRONING MACHINE. WENDELL S. MERICK, Chicago, Ill. Filed Sept. 2, 1921. Serial No. 497,857. 5 Claims. (Cl. 68—9.)

1. An ironing machine having a pressing shoe, a rotatable pressing cylinder, means for moving the cylinder and shoe relatively nearer together to pressing position and holding the same in such condition and means



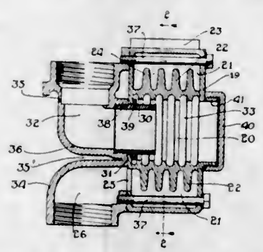
for causing the separation of shoe and cylinder when the cylinder rotation decreases.

1,473,998. FLEXIBLE VALVE DIAPHRAGM. WARD T. MIXSELL, Cumberland, Md. Filed July 26, 1922. Serial No. 577,671. 14 Claims. (Cl. 137—157.)



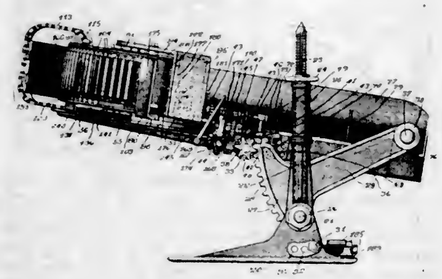
1. A flexible diaphragm of the class described, comprising a circular disk fabricated of radially directed strength members embedded in a unifying binder.

1,473,999. FUEL-FOGGING DEVICE FOR INTERNAL-COMBUSTION ENGINES. FRANK C. MOCK, Chicago, Ill., assignor to Stromberg Motor Devices Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 31, 1919. Serial No. 334,895. 8 Claims. (Cl. 48—180.)



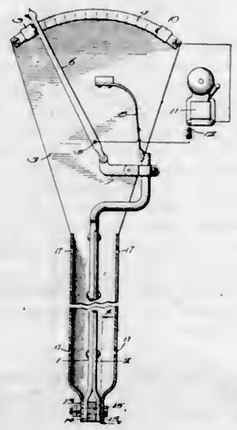
1. In a device of the class described, the combination of a generally cylindrical separating chamber, means for admitting a fuel mixture to said chamber and arranged to cause a whirling motion of the mixture in said chamber, an outlet tube extending from said chamber for withdrawing the gaseous fuel mixture therefrom, a jacket surrounding said separating chamber, means adapted to circulate a heating medium through said jacket, heat absorbing flanges projecting from the wall of said separating chamber into said heating jacket, and means in said separating chamber for temporarily retaining the heavier particles of the mixture on the wall of said chamber.

1,474,000. MINING MACHINE. EDMUND C. MORGAN, Chicago, Ill.; Olive Eugenie Morgan executrix of said Edmund C. Morgan, deceased. Filed May 22, 1916. Serial No. 99,015. 148 Claims. (Cl. 262—28.)



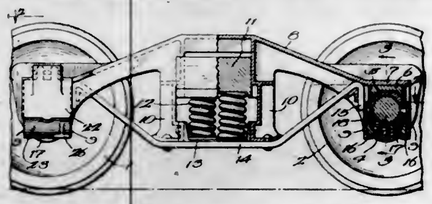
1. A mining and loading machine comprising a supporting frame, means mounted thereon for cutting a U-shaped kerf in a mine wall in a general horizontal direction, framework adjustable to an elevated position to support said cutting means for cutting the kerf at the roof in the plane of the roof of the mine chamber, conveyer mechanism in position for receiving the material as it is dislodged by said cutting means, and means for operating said conveyer mechanism to effect the transfer of the dislodged material rearwardly toward loading position.

1,474,001. THERMOMETER. EDWARD S. PAYMENT, Chicago, Ill. Filed May 19, 1919. Serial No. 297,999. 1 Claim. (Cl. 73—118.)



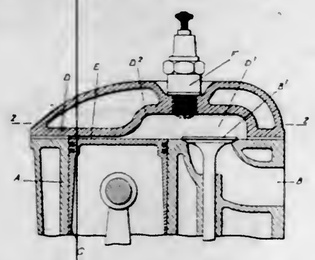
A thermometer including a temperature indicating pointer; a temperature scale over which the pointer travels; a thermostatic element in actuating relation to said pointer; a tubular housing for and spaced apart from the thermostatic element, this housing being partially collapsed at its lower end and extending at its collapsed portion laterally beyond the balance of the housing, said thermostatic element being in and partially filling the partially collapsed portion of the housing, the upper portion of the housing being perforated to communicate with the space between the thermostatic element and housing.

1,474,002. CAR TRUCK. HERMAN C. PRIESS, Blue Island, Ill. Filed Apr. 6, 1921. Serial No. 458,998. 5 Claims. (Cl. 105—204.)



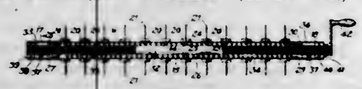
1. In a car truck, the combination with car axles; of journal boxes supported upon the ends of said axles; and a side frame connecting the journal boxes, the bodies of said journal boxes being formed with displaceable trough bottoms having front, side and rear walls to permit lateral withdrawal of the axles from the journal boxes, the box bodies having front and rear portions guarding against displacement of the trough bottoms.

1,474,003. INTERNAL-COMBUSTION ENGINE. HARRY RALPH RICARDO, London, England, assignor to Waukesha Motor Company, Waukesha, Wis., a Corporation of Wisconsin. Filed Dec. 31, 1919. Serial No. 348,619. 5 Claims. (Cl. 123—191.)



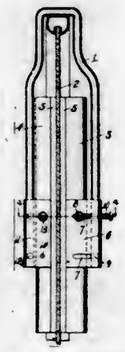
1. In an internal combustion engine, a cylinder, a piston reciprocating in said cylinder, a combustion chamber adjoining and communicating restrictedly with the end of said cylinder, the end of said cylinder being otherwise permanently closed, said combustion chamber representing all of the effective combustion space when the piston is in the position of greatest compression, and the cross-sectional area of the communication between said combustion chamber and said cylinder being less than that of the cylinder bore, combustible gas inlet and burned gas outlet passages for said combustion chamber, said combustion chamber being otherwise closed, valves for said passages, and spark ignition means for said combustion chamber.

1,474,004. CANDY-CUTTING APPARATUS. EDMUND W. ROBERTS, Cincinnati, Ohio. Filed July 24, 1922. Serial No. 577,025. 4 Claims. (Cl. 107—51.)



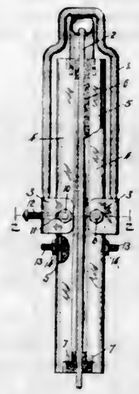
1. A candy cutter comprising a cylindrical axle, a plurality of disk-shaped cutters mounted and adjustable endwise upon said axle and spaced at intervals longitudinally thereof, a coiled spring carried by said axle under tension and to different loops of which spring said respective cutter disks are attached, and means to vary the tension upon said spring to thereby adjust said cutter disks to different positions endwise of said axle and to different relative spaced relations.

1,474,005. WINDSHIELD WIPER. PHILLIP SHERMAN, Toledo, Ohio. Filed Mar. 20, 1922. Serial No. 545,050. 3 Claims. (Cl. 15—252.)



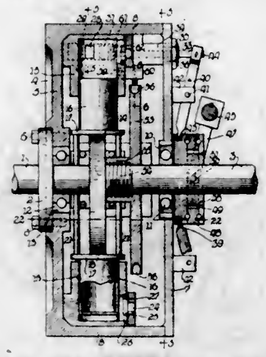
1. A windshield wiper, comprising a holder of U-form adapted to have its arms disposed at opposite sides of a windshield glass, a clip carried by one arm of the holder and having spaced sides projecting toward the other arm with opposed slots therein transverse to the arms, a wiper member mounted on the clip between the sides thereof, pivot means carried by the wiper member and extending into the slots of the clip sides to permit the wiper member to have pivotal movements relative to the clip, means threaded through the clip carrying arm in engagement with the back of the wiper member adjacent to its rocking axis and adjustable to shift the rocking axis longitudinally of the clip slots, and a second wiper carried by the other arm of the holder in opposed relation to the first wiper member.

1,474,006. WINDSHIELD WIPER. PHILLIP SHERMAN, Toledo, Ohio. Filed May 15, 1922. Serial No. 561,073. 8 Claims. (Cl. 15—252.)



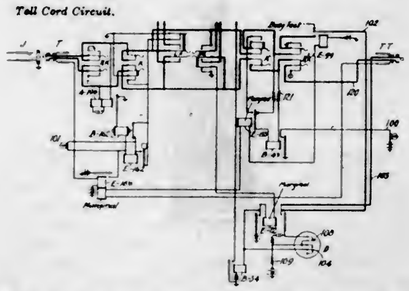
1. A windshield wiper having a U-shaped holder for straddling a windshield, wiper and scraper members carried by one arm of the holder for relative adjustment to place either in engagement with one side of the windshield, and means carried by the other arm of the holder to bear upon the opposite side of the windshield to press the scraper and wiper members against the windshield.

1,474,007. HYDRAULIC CLUTCH. WILSON W. SIDES, Lowell, and ELMONT F. PRESTON, Kearney, Nebr., assignors to John W. Patterson, trustee, Kearney, Nebr. Filed Apr. 26, 1919. Serial No. 292,958. 14 Claims. (Cl. 60—54.)



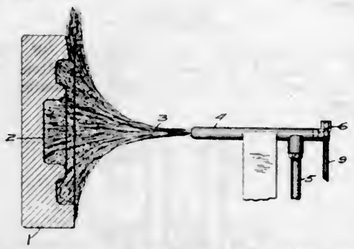
1. A rotatable closed casing, a driven shaft concentrically entering the casing, an eccentric on the driven shaft within the casing, opposed cylinders within the casing at the periphery thereof and in the plane of the eccentric, pistons reciprocable in said cylinders, means connecting opposed pistons together, cross head plates on the pistons engaging the eccentric, the casing adapted to contain oil, an inlet port for each cylinder adjacent to the periphery of the casing, a check valve controlling each inlet port, an outlet port for each cylinder, a valve for controlling each outlet port, means for simultaneously manually adjusting said outlet valves, a power disk on the driven shaft within the casing, and means directing jets of liquid from the cylinders into the pockets of the disk in a direction to cause the disk to rotate in the same direction as the casing.

1,474,008. MACHINE-SWITCHING TELEPHONE-EXCHANGE SYSTEM. RAY STOKELY, Floral Park, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 8, 1920. Serial No. 429,163. 18 Claims. (Cl. 179—27.)



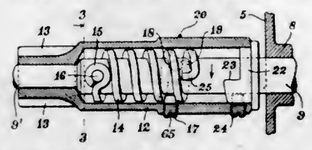
1. In a telephone exchange system, the combination with telephone lines, automatic switches, groups of trunks terminating therein, an operator's position, a signal thereat, means controlled from said position for setting said switches to interconnect said lines over said trunks, means controlled solely by the busy condition of the selected line for operating said signal in one manner, means controlled by the idle condition of the selector line for operating said signal in a second manner and means controlled by the busy condition of a selected trunk group for operating said signal in a third manner.

1,474,009. METHOD OF COATING MOLDS. ARTEMUS D. STRAW, Wauseon, Ohio, assignor to The Hubert A. Myers Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 13, 1922. Serial No. 528,932. 2 Claims. (Cl. 22—192.)



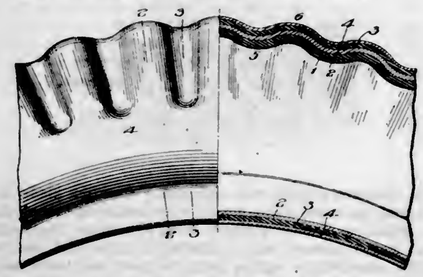
1. The method of depositing lamp black over the surface of the matrix of a mold, which consists in directing an incomplete combustion flame formed from a hydrocarbon fuel over the surface of the matrix of the mold, the hydrocarbon fuel that supplies the flame being under pressure to cause the products of combustion to impinge against the surface of the mold and to penetrate all crevices of the mold.

1,474,010. ENGINE-STARTING APPARATUS. ARTHUR H. ABELL, New York, N. Y., assignor, by mesne assignments, to Eclipse Machine Company, Elmira Heights, N. Y., a Corporation of New York. Filed Apr. 19, 1920. Serial No. 374,822. 24 Claims. (Cl. 74—7.)



1. In combination, a flywheel gear and automatic transmission for engine starters, comprising a driving shaft, a pinion mounted thereon for rotary movement therewith and longitudinal movement thereof, a helical spring coaxial with said driving shaft and having one end thereof fastened to said driving shaft, the point of fastening of said spring to said driving shaft being adjacent said flywheel and the free end of said spring being remotely disposed with reference to said flywheel, and means interposed between the convolutions of said spring and connected to said pinion for causing axial advance of said pinion by inertia upon rotation of said driving shaft.

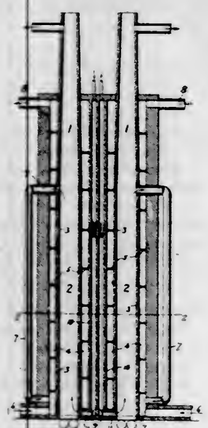
1,474,011. SELF-SEALING TIRE TUBE. HARLEY H. ALLYN, Atlantic City, N. J. Filed Oct. 12, 1922. Serial No. 593,938. 2 Claims. (Cl. 152—13.)



2. An inner tube having a plurality of layers of vulcanized material with a layer of non-vulcanized sealing material between them and with a layer of con-vulcan-

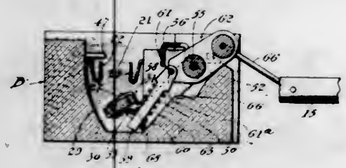
ised sealing material on the inner face of the inner layer of vulcanized material throughout the tread bearing portion, the tread bearing portion of said layers being transversely corrugated whereby when the tube is inflated the sealing material will be circumferentially compressed.

1,474,012. COMPLETE GASIFICATION OF SOLID FUEL. CHARLES W. ANDREWS, Duluth, Minn. Filed Apr. 20, 1921. Serial No. 462,992. 7 Claims. (Cl. 48—202.)



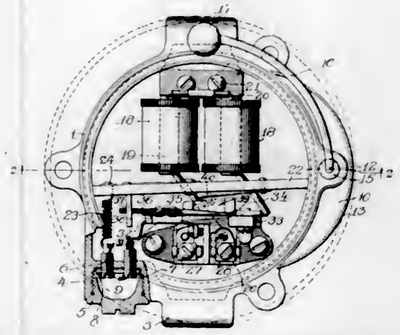
1. The process of completely gasifying solid fuel which consists in establishing and externally heating a fuel column, permitting the column to descend at a rate substantially as described and appropriate for the economical production of coal gas at the upper part of the column thus establishing a rate of coke travel from the upper part of the column, converting substantially all the coke into water gas by the continuous introduction of steam at the lower part of the column, and coordinating the rate of production of water gas with the established rate of coke travel by providing a sufficiently enlarged heat exchange surface at the lower portion of the column.

1,474,013. ELECTRIC SWITCH. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 13, 1918. Serial No. 253,882. 6 Claims. (Cl. 200—67.)



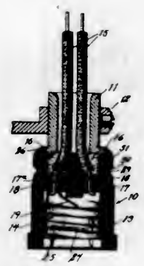
5. A switch construction comprising a switch blade oscillatable back and forth, a contact co-operating therewith, an actuating member shiftable back and forth, transmission means between said actuating member and switch blade, comprising a spring shiftable back and forth past the dead center, a spring shifting link and an abutment for exerting pressure on said link to positively actuate said switch blade.

1,474,014. ELECTRIC BELL. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 1, 1919. Serial No. 280,012. 2 Claims. (Cl. 117—7.)



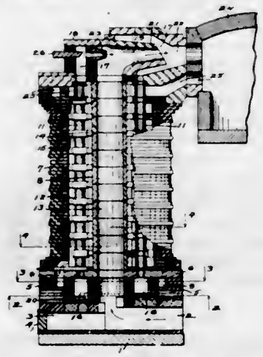
2. An electric bell comprising a sealed casing, electromagnetic bell-ringing mechanism including the hammer mounting arranged within and entirely mounted on said casing, a removable cover plate for the casing removable without displacing any of the bell-ringing mechanism, said casing having a chamber formed on the exterior of the side wall, adjusting screws for the bell-ringing mechanism extending through the side wall of the casing into said chamber, and a cover for said chamber whereby the bell-ringing mechanism may be adjusted from the exterior of the casing.

1,474,015. LAMP SOCKET. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 12, 1919. Serial No. 344,302. 2 Claims. (Cl. 173—358.)



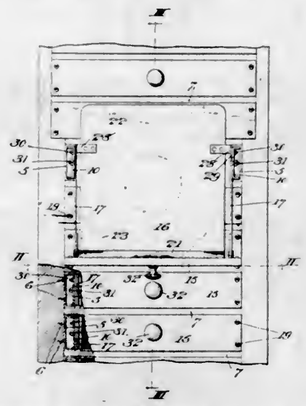
1. A lamp socket construction comprising an insulating base, shell and center contacts supported thereby, wiring terminals for said contacts supported by said insulating base, a tubular shank for insertion in a supporting bracket secured to said insulating base through which the conductors pass to said wiring terminals, said shank having an outwardly extending flange at its junction with the insulating base, interengaging means on said tubular shank and insulating base for preventing relative rotation therebetween, and a sheet metal ring secured to said insulating base and flanged over said outwardly extending flange for securing said parts together.

1,474,016. RECUPERATOR. WILLIAM G. BERGMAN, Point Place, Ohio. Filed Jan. 9, 1922. Serial No. 527,874. 9 Claims. (Cl. 263—20.)



1. In a recuperator having a pair of circular, substantially concentrically arranged walls forming an inner passageway for producer gas and an outer annularly arranged passageway for burnt gases, a plurality of tubular passageway for air located in the outer passageway for burnt gases.

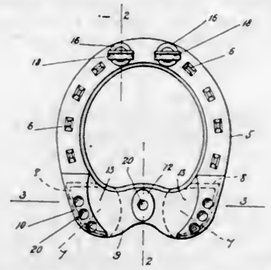
1,474,017. CABINET FOR TALKING-MACHINE RECORDS. EDWARD BLAISE, Brooklyn, N. Y. Filed Aug. 6, 1921. Serial No. 490,345. 5 Claims. (Cl. 45—96.)



1. Apparatus of the character described comprising, uprights, channel iron supports secured to said uprights, a shelf located below said supports, a drawer-like element, said element having channel iron members fitted to slide in said supports, and said element also having a portion projecting below its side members to rest upon said shelf when the element is in one position and an abutment projecting below the top plane of said shelf for contacting with the edge of said shelf and limiting the outward movement of the element.

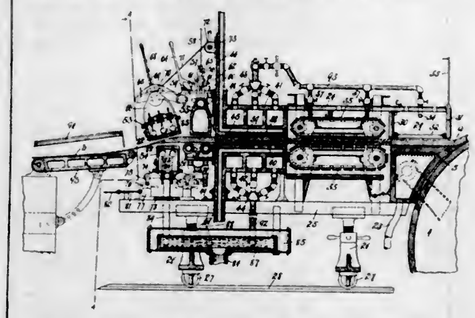
1,474,018. HORSESHOE. ALBERT D. CARTWRIGHT, Toledo, Ohio, assignor of one-half to James G. Ray, Columbus, Ohio. Filed June 14, 1922. Serial No 568,323. 2 Claims. (Cl. 168—14.)

1. A metal horseshoe having on its heel portions pockets provided with overhanging sides, a bridge-piece of relatively soft material secured in the said pockets and extending between them, said bridge-piece having curved wedge-shaped projections on its ends arranged with their blunt ends foremost, and a rounded projection at its middle part separated from the concave sides of the



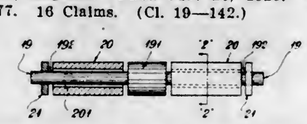
curved projections by longitudinal channels which have concave bottoms and which are wider at their front than at their rear ends, said projections serving as cushions and as calks on ordinary roads and on icy roads.

1,474,019. METHOD AND APPARATUS FOR FORMING GLASS. ROBERT M. CORL, Maumee, Ohio, assignor, by mesne assignments, to Erie Glass Company, Toledo, Ohio, a Corporation of Delaware. Filed Oct. 29, 1918. Serial No. 260,162. 34 Claims. (Cl. 49—3.)



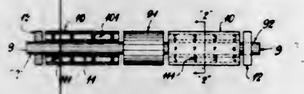
33. The method of forming glass, which consists in flowing a continuous column from a source of molten glass, progressively cooling the column below the point where gravity will vary its cross section, progressively melting the advance end of the cooled column in such a manner that the melted portion will flow over the cooled portion and vary the cross section of the column and allowing the glass to set in the cross section resulting from such flowing.

1,474,020. ROLLER FOR DRAWING MECHANISMS FOR FIBROUS MATERIAL. ROBERT COTTAM, Oldham, THOMAS SEFTON, Shaw, and JAMES EDWARD LEES, Oldham, England. Filed Jan. 26, 1923. Serial No. 615,177. 16 Claims. (Cl. 19—142.)



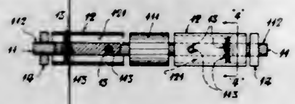
1. A self weighted roller for a drawing mechanism as hereinbefore indicated, comprising a revoluble axle having means for bearing upon and being revolved by a moving part with which the roller is to co-operate and so supporting and bringing about the revolution of the axle and also comprising a sleeve mounted around and eccentrically movable relatively to the axle for bearing substantially by only its own weight on fibrous material.

1,474,021. ROLLER FOR DRAWING MECHANISM FOR FIBROUS MATERIAL. ROBERT COTTAM, Oldham, THOMAS SEFTON, Shaw, and JAMES EDWARD LEES, Oldham, England. Original application filed Jan. 26, 1923, Serial No. 615,177. Divided and this application filed July 5, 1923. Serial No. 649,747. 4 Claims. (Cl. 19—142.)



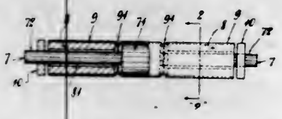
1. In a self weighted roller for a drawing mechanism as hereinbefore indicated, a revoluble axle having means for bearing upon and being revolved by a moving part with which the roller is to co-operate and so supporting and bringing about the revolution of the axle, a sleeve mounted around and eccentrically movable relatively to the axle for bearing substantially by only its own weight on fibrous material and resilient frictional driving means between the axle and the sleeve for causing the sleeve to turn with the axle while leaving said sleeve freely movable relatively to the axle.

1,474,022. ROLLER FOR DRAWING MECHANISM FOR FIBROUS MATERIAL. ROBERT COTTAM, Oldham, THOMAS SEFTON, Shaw, and JAMES EDWARD LEES, Oldham, England. Original application filed Jan. 26, 1923, Serial No. 615,177. Divided and this application filed July 5, 1923. Serial No. 649,748. 3 Claims. (Cl. 19—142.)



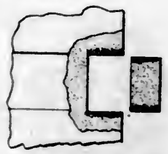
1. In a self weighted roller for a drawing mechanism as hereinbefore indicated a self weighted revoluble axle having means for bearing upon and being revolved by a moving part with which the roller is to co-operate and so supporting and bringing about the revolution of the axle, a sleeve mounted around and eccentrically movable relatively to the shaft for bearing substantially by only its own weight on fibrous material and a spring in driving engagement with such axle and said sleeve for causing the sleeve to turn with the axle while leaving said sleeve freely movable relatively to the axle.

1,474,023. ROLLER FOR DRAWING MECHANISM FOR FIBROUS MATERIAL. ROBERT COTTAM, Oldham, THOMAS SEFTON, Shaw, and JAMES EDWARD LEES, Oldham, England. Original application filed Jan. 26, 1923, Serial No. 615,177. Divided and this application filed July 5, 1923. Serial No. 649,749. 4 Claims. (Cl. 19—142.)



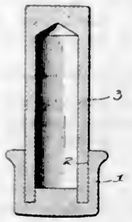
1. In a self weighted roller for a drawing mechanism as hereinbefore indicated, a revoluble axle having means for bearing against and being revolved by a moving part with which the roller is to co-operate and so supporting and bringing about the revolution of the axle, a sleeve mounted around and eccentrically movable relatively to the axle for bearing on fibrous material and tubular flexible connecting means in connection with the sleeves and the axle.

1,474,024. PISTON AND PISTON RING AND PROCESS OF MAKING THE SAME. BURTON S. COWLES, Wilkes-Barre, Pa. Filed Mar. 19, 1921. Serial No. 453,692. 15 Claims. (Cl. 29—156.6.)



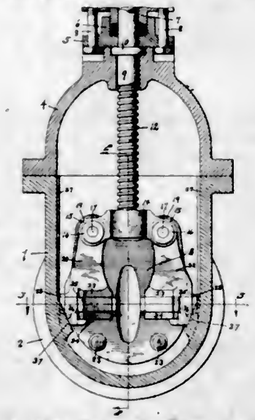
1. The improvement in the art of making piston parts for hydrocarbon motors which comprises forming a groove in a piston for the reception of a ring, forming a ring of greater width than the groove, compressing the opposite sides of the ring so that the ring will fit closely without binding in the groove and applying the ring to the groove.

1,474,025. TOOL FOR POWER-OPERATED RIVETING DEVICES OR HAMMERS. VICTOR LEE EMERSON, Philadelphia, Pa. Filed Feb. 7, 1922. Serial No. 534,835. 3 Claims. (Cl. 78—46.)



1. An article of the class described having a head adapted to form a striking member and provided with a recess therein, and a hollow member having one end thereof inserted and held within said recess and adapted to receive the blows of an operating element on its upper end.

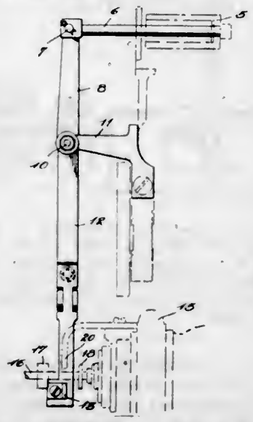
1,474,026. GATE VALVE. JOHN W. FLOWER, Detroit, Mich., assignor, by mesne assignments, to Michigan Valve Foundry and Engineering Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 5, 1921. Serial No. 435,119. 2 Claims. (Cl. 251—68.)



1. In a gate valve, the combination of a body having an upright chamber and a transverse passage at the lower end thereof, a pair of valve seats mounted at the lines of

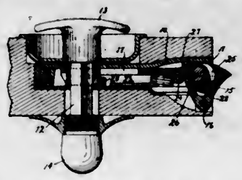
connection of the passage and chamber, a screw-threaded stem in said chamber, a disk carrier mounted on the stem and having cylindrical lugs on opposite sides and pins extending through the lugs and across slots between them, valve disks having perforated ears through which the lugs extend, the perforations being larger than the lugs to permit vertical movement between them, wedge bars mounted on said pins and adapted to swing toward each other between the valve disks, and wedge blocks mounted on said bars and adapted to force the valve disks apart when swung toward each other.

1,474,027. TORPEDO. WERNER E. FOLLIN, Jamestown, R. I. Filed Mar. 19, 1921. Serial No. 453,857. 1 Claim. (Cl. 114—20.)



In a torpedo, in combination, a distance gear, a horizontal steering engine, interposed means acted upon by the distance gear to lock the steering engine in fixed position, said mechanism including a system of levers and a stop lug adapted to coact directly with the horizontal steering engine valve rod.

1,474,028. DOOR LATCH. WILLIAM S. HAMM, Hubbard Woods, Ill., assignor to The Adams & Westlake Company, a Corporation of Illinois. Filed Mar. 13, 1922. Serial No. 543,316. 6 Claims. (Cl. 292—220.)



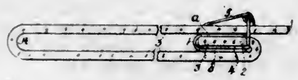
1. In a door latch, in combination, a pivoted keeper engaging dog having a chambered body and an aperture adjacent the outer end of its rear wall, and a retracting bar having a hooked forward end projecting within the aperture, the hook engaging the rear wall of the dog.

1,474,029. VITAMINE SOLUTION. ISAAC F. HARRIS, Tuckahoe, N. Y. Filed Dec. 26, 1919. Serial No. 347,501. 4 Claims. (Cl. 167—7.)

2. A composition of matter comprising an aqueous solution of a biologically active "vitamine" body containing about eighteen percent of ethyl alcohol.

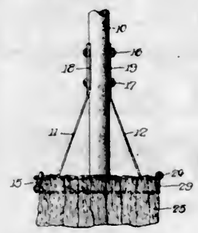
3. A composition of matter comprising an aqueous solution of a biologically active "vitamine" body, derived from living yeast cells, containing ethyl alcohol sufficiept to exercise a substantial preservative action upon said "vitamine" body.

1,474,030. WEBBING CLIP HOOK FOR BUCKLES. WILLIAM E. HATHEWAY, Bridgeport, Conn. Filed June 28, 1922. Serial No. 571,431. 1 Claim. (Cl. 24—265.)



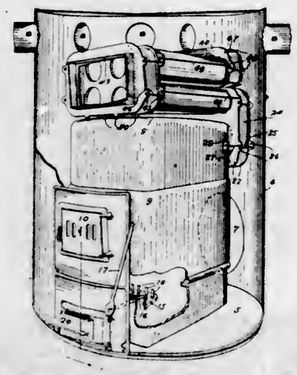
A V-shaped clip hook adapted to embrace the end of webbing, one leg thereof resting against the webbing and anchored thereto, the other leg free from contact with the opposite side of the webbing and parallel therewith, a buckle having a frame slidably mounted on the webbing with the frame of the buckle interlocked between the free leg of the clip hook and webbing.

1,474,031. FLOOR MOP. AUGUST J. HANKE, Chicago, Ill. Filed Mar. 31, 1922. Serial No. 548,339. 1 Claim. (Cl. 15—150.)



In a mop holder, the combination of a means for engaging and holding a mop, said means including a fixed clamping arm and a movable clamping arm, said arms being hingedly connected together, an end of one of the arms being formed to provide the knuckle of the hinge and an end of the other of said arms being formed to provide the pintle of the hinge, and a pivoted locking ring adapted to maintain the other ends of said clamping arms in locked relation, the pivot of said locking ring being disposed so that a portion of said locking ring is arranged at one side of the pivot when arranged in locked relation to hold said locking ring against release.

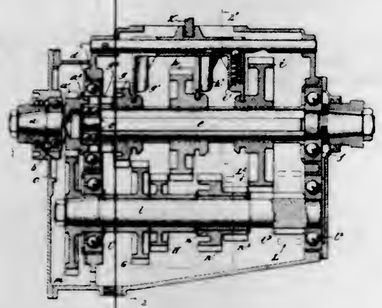
1,474,032. HEATING FURNACE. JACOB HELMKEE, Kenmore, Ohio, assignor to J. H. La Croix, Cleveland, Ohio. Filed Jan. 10, 1920. Serial No. 350,663. 3 Claims. (Cl. 126—99.)



1. A furnace of the class described, comprising in combination, a fire box, an outer casing, horizontal flues leading from the rear wall of said fire box at a point adjacent the upper edge thereof, a smoke box located within said casing and connecting the ends of said flues, said smoke box positioned in spaced relation to

the rear wall and projecting upwardly above the plane of the upper wall of said fire box, a second smoke box detachably mounted on the upper wall of said fire box, a plurality of flues leading from the first named smoke box thereto; a third smoke box, detachably mounted on the first named smoke box, a plurality of flues leading from the second smoke box thereto and a single flue leading from the last named smoke box.

1,474,033. SELECTIVE-TYPE CHANGE-SPEED TRANSMISSION. ALEXANDER GRISWOLD HERRESHOFF, Bristol, R. I. Filed Aug. 17, 1921. Serial No. 493,032. 7 Claims. (Cl. 74—58.)



1. Change speed transmission of the selective type including a spline shaft, change speed gears slidable thereon selectively, a first counter shaft having gears rotatable therewith to be engaged by certain of said first named gears selectively, a compound gear rotatable freely on said counter shaft and adapted to be engaged selectively by certain of said first named gears and means to drive said compound gear.

1,474,034. COMBINED WIND DEFLECTOR AND ANTI-GLARE DEVICE. ADAM F. HOFF, Binghamton, N. Y. Filed Sept. 29, 1921. Serial No. 504,068. 1 Claim. (Cl. 296—84.)

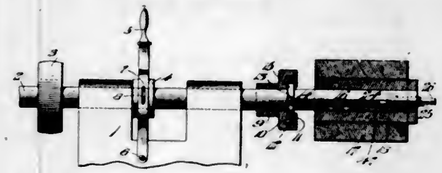


A combined wind deflector and anti-glare device for wind shields comprising a member adapted to be mounted on the wind shield, means for supporting said member for horizontal swinging movements, whereby it can be arranged at either side of the wind shield at any desired angle with respect thereto, a covering for said member to afford the latter translucent qualities, said covering being removably associated with said member, and means for holding said member fixed relatively to the wind shield in any given position.

1,474,035. PROCESS OF MAKING MESITYL OXIDE, ETC. ALFRED HOFFMAN, Kew Gardens, N. Y., assignor to Alco Deo Company, Wallington, N. J., a Corporation of New Jersey. Filed Mar. 23, 1922. Serial No. 546,163. 2 Claims. (Cl. 260—134.)

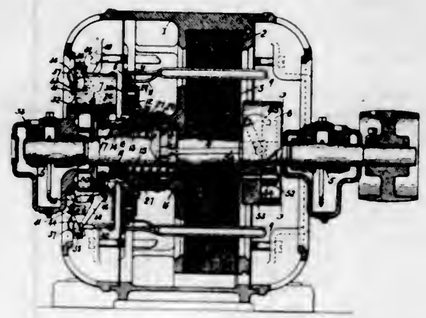
1. The process of forming mesityl oxide which comprises adding a minute quantity of an aqueous solution of hydrochloric acid to diacetone alcohol, gradually heating to the boiling point, and continuing the distillation and collection of the mesityl oxide.

1,474,036. DRILLING APPARATUS. JAMES W. HUGHES, Wyncote, Pa., assignor to William H. Stehle, Philadelphia, Pa. Filed June 16, 1922. Serial No. 568,723. 2 Claims. (Cl. 77—61.)



1. A drilling apparatus, comprising a drill with a shank whose outer wall in cross section conforms to the Cardan circles principle, and a guide member having an aperture, the walls of which guide and control said shank and with at least two opposing sides curved and in parallelism.

1,474,037. ALTERNATING-CURRENT MOTOR. HARRY W. JEANNIN, Toledo, Ohio, assignor, by direct and mesne assignments, to The Jeannin Electric Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 18, 1919. Serial No. 283,323. 11 Claims. (Cl. 178—279.)

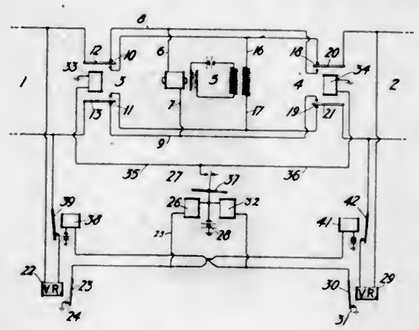


7. In a motor of the class described, a commutator, a high resistance armature winding having its coils connected with the commutator segments, a plurality of auxiliary leads from each coil of the winding intermediate its ends, and means operable to short-circuit said leads to reduce the resistance in the winding.

1,474,038. TELEPHONE REPEATER CIRCUITS. EDGAR D. JOHNSON, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 4, 1918, Serial No. 210,263. Renewed Apr. 26, 1923. 18 Claims. (Cl. 179—170.)

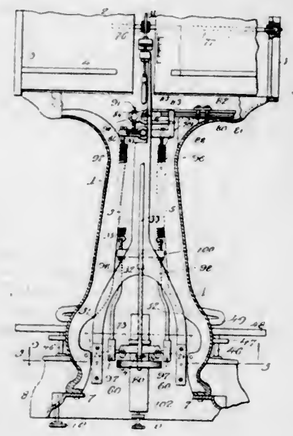
1. The combination of two telephone lines terminating in armatures, electromagnetic means for controlling said armatures, vibratile contact relays for

controlling said means, a repeater between said lines, means whereby said relays control said repeater, and means whereby one of said relays controls the opera-



tion of another of said relays, said repeater being connected to transmit current in only one direction between said lines in the absence of current to be repeated.

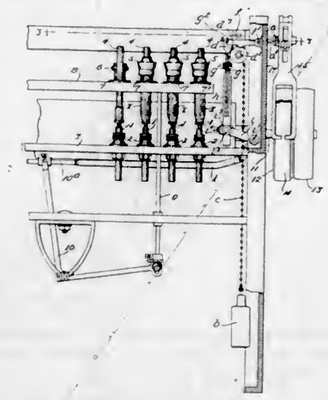
1,474,039. WEIGHING MECHANISM. LEONARD T. JOHNSON, Boston, Mass. Filed Dec. 23, 1919. Serial No. 346,983. 23 Claims. (Cl. 265—69.)



1. In a weighing device and in combination with the scale operating rod thereof, weight actuated levers controlled by the weight of the material to be weighed for actuating said rod, a check rod, cylindrical scale members controlled by said scale operating rod, said check and scale operating rods being positioned between said cylindrical scale members substantially as shown and described.

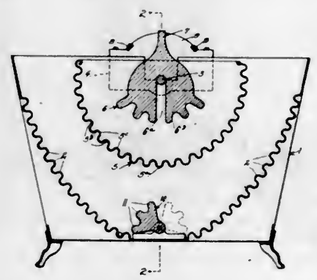
1,474,040. STOP-MOTION MECHANISM FOR SPINNING FRAMES. JOSEPH H. JONES, Winthrop, Mass., assignor of one-half to Robert Burgess, Newton Center, Mass. Filed June 11, 1921. Serial No. 476,781. 6 Claims. (Cl. 118—5.)

1. Full-bobbin stop-motion mechanism comprising, in combination with a shipper and a shipper-actuator, a revoluble controller, tension-means, connections combining said shipper-actuator, controller, and tension-means, a detent for said controller by which the said tension-



means is held under restraint, a bell-crank actuated in unison with the traverse mechanism, and adjustable detent-disengaging means actuated by said bell-crank.

1,474,041. WASHING MACHINE. HENRY A. KAUFLE, Charleroi, Pa. Filed June 3, 1922. Serial No. 565,559. 1 Claim. (Cl. 68—20.)

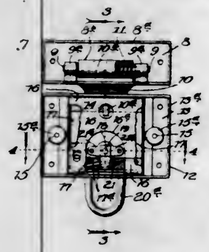


In a machine of the character described, a casing, a plurality of ribs within the casing and extending transversely thereof, a shaft rockably mounted transversely of and extending through the casing, a main rubber fixed to said shaft and having its lower wall transversely corrugated and disposed substantially concentric with said ribs, said main rubber being further provided with openings through its lower wall, a supplemental rubber loosely mounted on the shaft and positioned within said main rubber, means for limiting movement of said supplemental rubber in either direction and means to rock said shaft.

1,474,042. KEYLESS LOCK. JOSEPH M. KAYE, Chicago, Ill., assignor to Eiseman, Kaye Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 6, 1922. Serial No. 599,317. 2 Claims. (Cl. 292—283.)

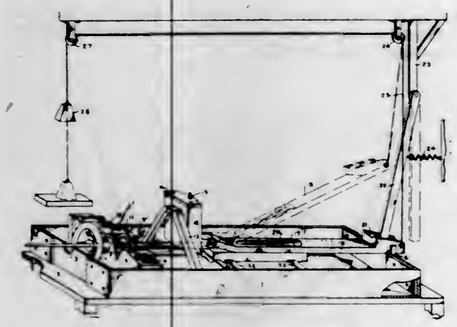
1. In a keyless lock, in combination with a latch-equipped member, a bolt-containing member comprising a casing provided with an opening to receive the latch tongue and containing a bolt-housing having an opening in its inner end, a bolt guidingly confined in said housing to be reciprocated relative to said opening, a stem passing

rotatably through the casing and bolt and reciprocable with the latter, a handle on the outer end of the stem and a stop-finger on the inner end thereof and rotatable there-



with in said housing-opening to engage the base thereof in the locking position of the bolt to obstruct retraction of the bolt from said position.

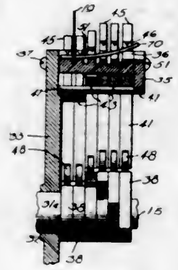
1,474,043. ORNAMENTING BILLIARD CUES AND THE LIKE. JOHN RAYMOND KEIPER, New York, N. Y. Filed Dec. 4, 1922. Serial No. 604,687. 6 Claims. (Cl. 101—126.)



1. The method or process of decorating billiard cues and the like which consists in securing the cue against rotary, lateral and longitudinal movement, pressing a stencil device against the same and causing the edges thereof to mark the surface of the cue to outline the decoration, applying a coloring substance to the portion which is exposed by the stencil device, then rotating the cue, while holding it against lateral and longitudinal bodily movement and repeating the operation described.

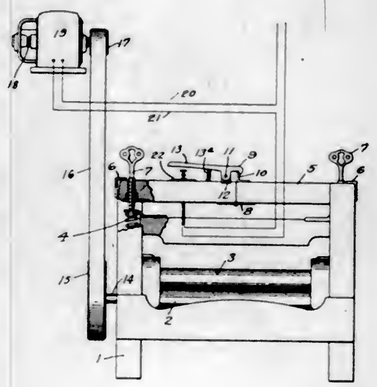
1,474,044. BUTTON-BLANK SHELL-SAWING MACHINE. HARRY H. KNOTT, CARL J. JUNGBLUTH, and EDWIN B. HAMMER, Washington, Iowa, assignors to Washington Manufacturing Company, a Corporation of Iowa. Filed Mar. 30, 1920. Serial No. 370,041. 2 Claims. (Cl. 79—15.)

1. In a machine of the class described, a frame, a shell strip holding element mounted thereon for rotation, said element having at its periphery a plurality of circumferentially spaced transversely elongated channels for holding strips of shell, a plurality of saws having spaced cutting planes and their axes arranged in a semi-circle on one side of said element, the parts being so arranged that when the element is rotated, the shell strips in each groove will be successively brought to position to be cut by the respective saws, and means for successively gripping each strip at points on opposite sides of the operative plane



of each saw and for operating such gripping means in succession for each sawing position, the opposite side of said element being readily accessible to workmen.

1,474,045. SAFETY DEVICE FOR POWER-DRIVEN WRINGERS. AUGUST W. KRATZ, Jr., Chicago, Ill., assignor to Lovell Manufacturing Company, Erie, Pa., a Corporation of Pennsylvania. Filed Apr. 3, 1918. Serial No. 226,556. 1 Claim. (Cl. 68—32.)



In combination, a wringer comprising wringer rolls, means for exerting pressure on the rolls, and a safety release for said means comprising a catch device normally locking the means in pressure position, and instantly letting go the means when actuated, an electric motor driving the wringer, a switch controlling said motor, and means in the path of the releasing movement of the catch device for opening the switch as the safety release is operated.

1,474,046. WALL TIE. HENRY H. LAMPERT, Chicago, Ill. Filed Oct. 24, 1919. Serial No. 332,992. 3 Claims. (Cl. 72—103.)

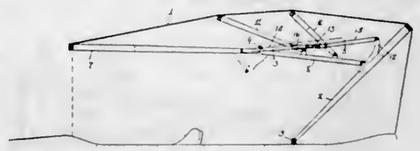
2. A wall tie of the class described, comprising a strip of metal doubled upon itself at intervals along its length

so as to provide transversely disposed anchor parts, and wires secured between the doubled-over portions of said



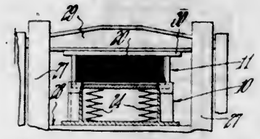
anchor parts, said anchor parts and wires being adapted to be embedded in a wall or the like so as to locate said strip on the face thereof.

1,474,047. TOP FOR VEHICLES AND THE LIKE. FRED K. LEWIS, Ashtabula, Ohio. Filed Jan. 20, 1919. Serial No. 271,992. 6 Claims. (Cl. 296—116.)



6. In a top for vehicles and the like, the combination of a main bow; a two-part articulated auxiliary bow having its rear portion pivotally connected to said main bow; two supplemental bows pivotally attached to such rear portion of said auxiliary bow; a link connecting said supplemental bows; and three links directly pivotally connected together, the intermediate link being shorter than the other two and pivotally attached to said first-named link and such other links being respectively attached to said main bow and to the outer portion of said auxiliary bow.

1,474,048. METHOD OF AND APPARATUS FOR CUTTING DECKLE-EDGED ENVELOPE BLANKS. CHARLES W. LYNCH, Holyoke, Mass., assignor to American Writing Paper Company, Holyoke, Mass., a Corporation of New Jersey. Filed July 18, 1921. Serial No. 485,626. 15 Claims. (Cl. 164—29.)



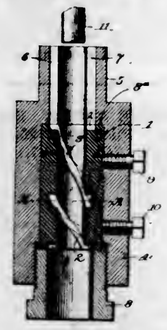
1. An apparatus for operating upon envelope blanks comprising means for cutting a plurality of regular edges at separated locations along the margin of a blank, and means interengaging with the cutting means to relatively locate the cutting means and the blank.

1,474,049. AUGER OR BIT. ARTHUR W. MCCURDY, Malahat, British Columbia, Canada. Filed July 9, 1919, Serial No. 309,556. Renewed June 26, 1922. Serial No. 571,113. 14 Claims. (Cl. 145—117.)



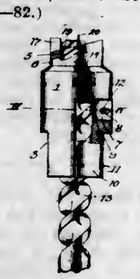
1. An auger or bit having two spirals; a plain center point; a floor lip cutter formed at the end of one of the spirals; and a scoring cutter formed of the edge of the other spiral and of a height no greater than the land of the spiral, with the floor of the groove which leads to said cutter removed or cut away so that it terminates in a plane in rear of the cutting edge of the floor lip cutter.

1,474,050. METHOD OF PRODUCING AUGERS. ARTHUR W. MCCURDY, Victoria, British Columbia, Canada. Filed May 20, 1920. Serial No. 382,994. 3 Claims. (Cl. 76—102.)



1. That method of producing a spirally twisted blade from flat bar stock, which consists in forcing the stock into and through a die having two oppositely disposed spiral grooves, the edges only of the stock engaging the grooves.

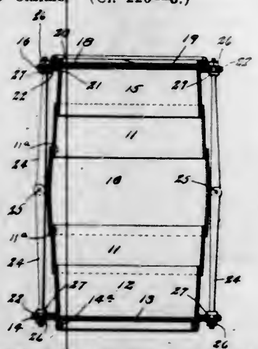
1,474,051. MEANS FOR FACILITATING SHARPENING OF AUGERS OR BITS. ARTHUR W. MCCURDY, Malahat, British Columbia, Canada. Continuation of application Serial No. 548,796, filed Apr. 1, 1922. This application filed Nov. 11, 1922. Serial No. 600,469. 6 Claims. (Cl. 76—82.)



1. In a sharpening tool guide for augers and bits, the combination of a body having an opening therein for the reception of the bit body; and a plurality of combined

tool guiding and gage surfaces formed on the outer end of the body, said surfaces being fashioned to conform to the contour and angularity of the cutting elements of the bit.

1,474,052. COLLAPSIBLE BARREL. NELSON E. MCLOON, Glencoe, Mo. Filed Aug. 15, 1921. Serial No. 492,361. 5 Claims. (Cl. 220—5.)



1. A collapsible container of the class described comprising a plurality of sections having telescopic interengagement, and removable hingedly connected sectional members having shouldered ends for engaging the end sections and locking all of said sections in extended position.

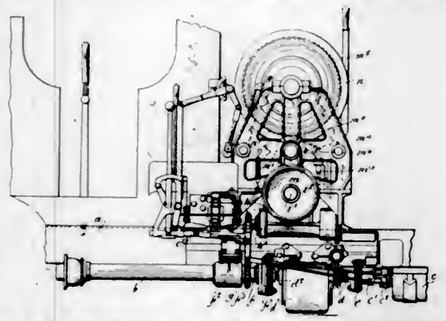
1,474,053. TELEPHONE METER. EDWARD H. MARTIN, Los Angeles, Calif. Filed Sept. 25, 1920. Serial No. 412,729. 21 Claims. (Cl. 179—7.)



1. A telephone receiver comprising a shell, a diaphragm carried by said shell, an actuating magnet for said diaphragm mounted in said shell adjacent to said diaphragm, electrical connections within said shell for establishing a listening circuit through said magnet, spring wound meter mechanism carried by said shell, and means responsive to a single manual operation to wind said meter mechanism and to insure the subsequent recording operation of the same coextensively with the existence of said listening circuit.

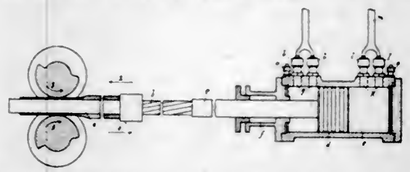
1,474,054. VARIABLE-SPEED WINCH FOR MOTOR TRUCKS. ALFRED F. MASURY and ROBERT S. BOLGER, New York, N. Y., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 10, 1920. Serial No. 402,582. 2 Claims. (Cl. 254—166.)

1. In a motor vehicle having a winding drum, in combination, an engine shaft extending rearwardly, a change-speed transmission for variation of the vehicle speeds driven from said shaft and having a housing, said transmission including a countershaft extending forwardly of the front end of the transmission housing, a second change-speed transmission disposed forwardly of the first mentioned transmission and having a drive



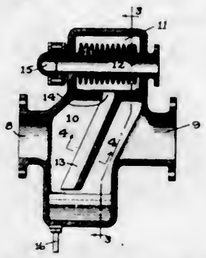
shaft operatively connected with the forwardly extending counter-shaft, a power take-off shaft extending forwardly of said second mentioned transmission and supported in a bearing at its forward end, and means on the last named shaft intermediate its ends to transmit driving torque to the drum.

1,474,055. ROLLING-MILL APPARATUS. FRIEDRICH MAYER, Muñich, Germany. Filed Aug. 12, 1921. Serial No. 491,753. 6 Claims. (Cl. 80—14.)



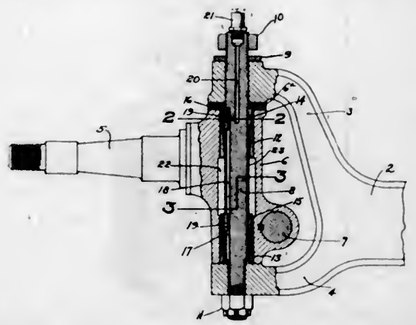
6. Apparatus for use with rolling mills, comprising an airtight cylinder and piston reciprocable therein under compressed air supplied to both sides thereof, said piston being connected with the piece to be rolled, and said cylinder being provided with a plurality of ports at each end to be closed progressively by the piston; regulating valves to control the pressure of the air supplied thru the individual ports; and safety valves at each end of the cylinder.

1,474,056. SEPARATOR. RUDOLF M. OSTERMANN, Evanston, Ill., assignor to The Superheater Company, New York, N. Y. Filed Apr. 14, 1922. Serial No. 552,449. 5 Claims. (Cl. 183—32.)



1. In apparatus of the class described the combination of an injector working with exhaust steam, an oil separator having communicating upper and lower chambers, baffling means in the lower chamber, cooling means adapted to condense steam in the upper chamber, the arrangement being such that the condensate formed in the upper chamber moistens the baffling means in the lower chamber, means to carry exhaust steam to the separator and to convey it from the separator to the injector, and means to circulate water on its way to the injector through the cooling means in the upper chamber.

1,474,057. ADJUSTABLE SPINDLE BOLT. WILLIAM F. PRIDEMORE, Stillwater, Minn. Filed Aug. 25, 1922. Serial No. 584,377. 5 Claims. (Cl. 280—96.1.)



1. A bolt adjusting means comprising an outer casing of substantially uniform internal diameter, a bushing fitting the interior of the outer casing, said bushing having an internal tapered surface, an inner bushing having an external tapered surface to contact with the tapered inner surface of the outer bushing, a bolt fitting within said inner bushing and having means for contacting the end of the inner bushing to draw said bushings together when the bolt is tightened.

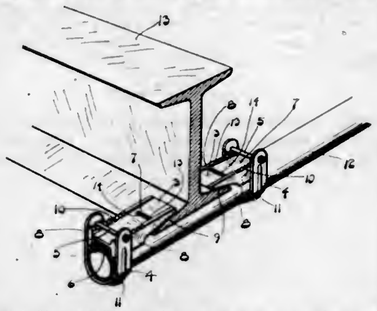
1,474,058. LEER FOR ANNEALING GLASSWARE. DAVID STENHOUSE, Clarksburg, W. Va. Filed Sept. 30, 1920. Serial No. 413,691. 4 Claims. (Cl. 49—47.)



1. A leer for glassware, comprising a horizontally disposed main annealing chamber of substantial length, said chamber having ascending and descending legs communicating with its opposite ends and being located at a relatively great elevation whereby is created a natural seal for confining heat thereto, the ascending leg having a charging opening therein adjacent to its lower end, and an approximately horizontal cooling chamber communicating with said descending leg, and an endless ware conveyor arranged for advance travel from the charging opening to and through said cooling chamber and for return travel throughout a path in which its temperature is raised to the required point by absorption of heat given off by the ware and the leer walls.

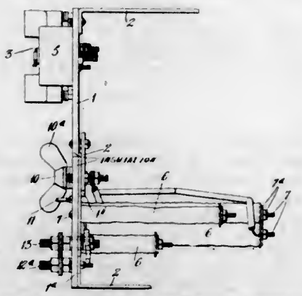
1,474,059. PIPE HANGER. CARL H. VOELLMECKE, Cincinnati, Ohio. Filed July 11, 1922. Serial No. 574,197. 1 Claim. (Cl. 248—32.)

A pipe hanger comprising in lieu thereof an adjustable wedge consisting of two transversely adjustable elements having a toothed supporting member engaging surface on the under face of each element, a notched bolt engaging surface on the upper face of each element, a pipe embracing strap, and a bolt adapted to occupy the notches



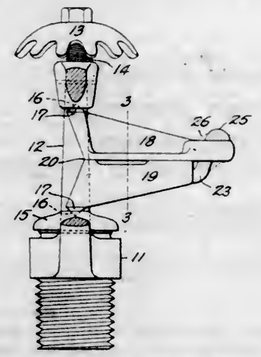
of the bolt engaging surface and to retain the strap in embracing engagement with a pipe to be supported.

1,474,060. RHEOSTAT. ALFRED ERNEST WALLER, Bronxville, N. Y., assignor to Ward Leonard Electric Company, a Corporation of New York. Filed Dec. 31, 1920. Serial No. 434,278. 14 Claims. (Cl. 219—48.)



1. A rheostat comprising resistance elements, a conducting element, a plurality of threaded elements insulated from said conducting element, and a plurality of rotatable elements on said threaded elements respectively for connecting and disconnecting said threaded elements with said conducting element and thereby connecting and disconnecting said resistance elements in circuit.

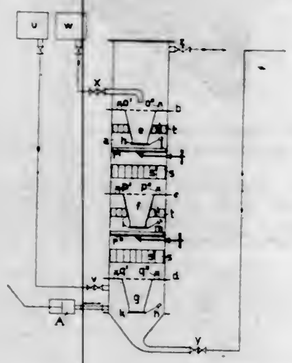
1,474,061. SPRINKLER. WILLIAM H. BAKER, Montreal, Quebec, Canada. Filed Apr. 13, 1917, Serial No. 161,823. Renewed Mar. 31, 1923. 9 Claims. (Cl. 169—39.)



1. In a sprinkler, a body, a yoke, a valve, and a strut in compression between the yoke and valve holding the

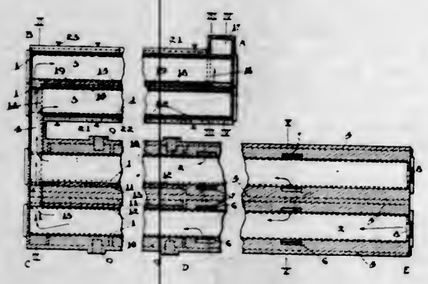
latter, said strut comprising a pair of members one having a groove of varying depth, a bearing surface on the other member and a holding lever engaging at one end with said bearing surface and engaging at the opposite end in said groove, and lever holding material of low fusibility filling the groove above the lever.

1,474,062. COUNTERCURRENT APPARATUS. HERMANN BOLLMANN, Hamburg, Germany. Filed Mar. 23, 1922. Serial No. 546,074. 5 Claims. (Cl. 87—12.)



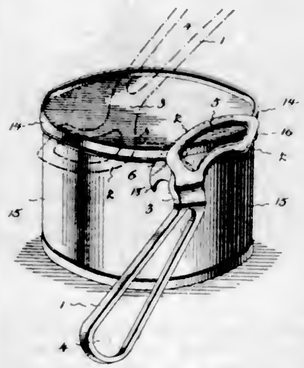
1. In an apparatus for treating fats and oils by means of bleaching earth and for extracting fine, dust-like substances, in a counter-current, the combination of a column or tower, partition-walls subdividing the said tower into several compartments, one-way valves in each of the said partition-walls to permit passing of the liquid in one direction stepwise through the said chambers, other one-way contrivances to permit the stepwise flow of the liquid and fine solid in the other direction, a supply-conduit and an outlet conduit, both connected to the lower end of the tower, another supply conduit and a second outlet conduit both connected to the upper end of the tower, suitable one-way valves in the four connecting conduits above mentioned and a suitable pumping device in connection with the lower part of the tower and adapted to act in cooperation with the said one-way valves and contrivances.

1,474,063. TUNNEL KILN. GEORGE W. BOOTH, Islington, Ontario, Canada. Filed June 16, 1922. Serial No. 568,847. 8 Claims. (Cl. 25—142.)



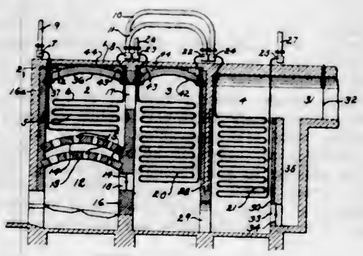
1. A tunnel kiln having an air space extending longitudinally of the pre-heating, firing and cooling zones of the kiln; a furnace at one side of the kiln communicating with the interior of the firing zone; a longitudinal flue at the opposite side of the kiln communicating with the interior of the kiln substantially opposite the furnace and extending along the pre-heating zone; a stack adjacent the inlet end of the kiln with which said flue communicates; and means forming a communication between the stack and the air space aforesaid adjacent the inlet end of the tunnel.

1,474,064. OPENER FOR CANS AND LIKE CONTAINERS. EMANUEL J. BOYLER, New Haven, Conn., assignor to Arnold J. Tanner, North Haven, Conn. Filed Apr. 22, 1921. Serial No. 463,714. 2 Claims. (Cl. 30—3.)



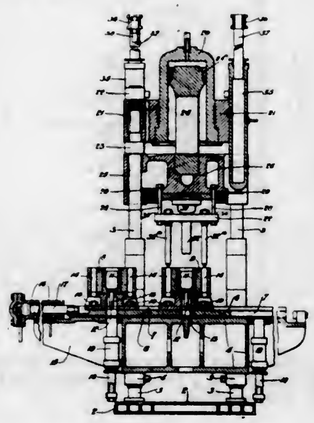
1. A tool as described having a handle, a head and a connecting shank, said handle being located in an angular position relatively to said head, said head being off-set laterally relatively to said shank, a blade secured to said shank so as to lie parallel to said head, means integral with said shank for securing said blade, an extended fulcrum surface for said blade provided by said head and a lug located at right angles to said head above the cutting edge of said blade and extending beyond the same at one side so as to provide an additional fulcrum for said blade.

1,474,065. SUPERHEATER. BENJAMIN N. BROIDO, New York, N. Y., assignor to The Superheater Company, New York, N. Y., a Corporation of Delaware. Filed June 7, 1918. Serial No. 238,701. 9 Claims. (Cl. 122—485.)



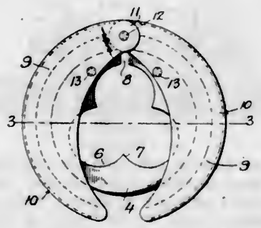
2. The combination of a superheater comprising a plurality of sections, means to carry hot gases over the sections consecutively, means to divert a portion of the gases so that less than the total flows over one of the sections, additional means to divert a portion so that less than the total flows over one of the other sections.

1,474,066. METAL-SHAPING MACHINE. FREDERICK E. BROWN, Pittsburgh, Pa., assignor to National Tube Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Aug. 4, 1921. Serial No. 489,829. 4 Claims. (Cl. 113—38.)



1. In a metal shaping machine for forming one piece cylindrical vessels, the combination of a ram, a die block movable laterally relative to said ram, a metal shaping plunger mounted on and capable of universal movement relative to said ram, and guide rods secured to said plunger and adapted to co-operate with suitable guide openings in said die to insure a fixed alinement of the shaping plunger with the die irrespective of the alinement of the ram therewith.

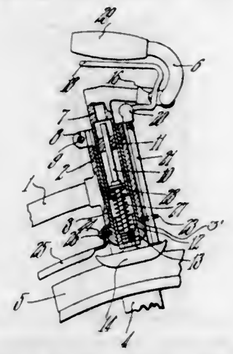
1,474,067. JAR-CAP WRENCH. JACOB S. BUCKWALTER, Philadelphia, Pa., assignor of one-half to Lewis H. Shank, Paradise, Pa. Filed Apr. 18, 1922. Serial No. 554,698. 4 Claims. (Cl. 81—3.1.)



1. An article of the character described comprising a dished body portion constructed of resilient material, and pivotally mounted hand gripping members overlying and connected to said portion for manipulating the same, substantially as set forth.

1,474,068. HAND BRAKE FOR CYCLES. GEORGE W. CLARK, Westfield, Mass., assignor to Westfield Manufacturing Company, a Corporation of Massachusetts. Filed Sept. 21, 1921. Serial No. 502,117. 6 Claims. (Cl. 188—27.)

1. The combination in a cycle having a handle bar and a hollow steering wheel head, of brake mechanism comprising a guide rod mounted within said head, a brake shoe carried on lower end of said rod, a brake rod outside of said head and directly connected at its lower end to said brake shoe, and a hand lever pivotally mounted on



said handle bar and connected to the upper end of said brake rod for actuating said brake shoe.

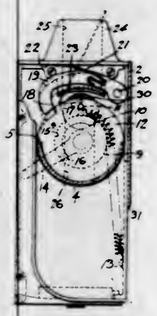
1,474,069. MACHINE FOR HEADING UP BARRELS. WILLIAM CLARK, Shaker Heights Village, Ohio. Filed Nov. 25, 1921. Serial No. 517,475. 18 Claims. (Cl. 147—11.)

1. A barrel heading up machine comprising a movable head for driving a head-hoop into place, a substantially vertically movable support for and extending over said head, and means for actuating said support, said head being movable with said support and having a movement independent of said support from a rearward and inoperative position into a forward and operative position and vice versa and, when it is in its forward position in the upper position of said support, being arranged to be lowered to drive the head-hoop into place during the required downward movement of said support.

1,474,070. COIN-CONTROLLED DELIVERY APPARATUS. BENSON P. COOPER, Ithaca, N. Y. Original application filed Oct. 18, 1917, Serial No. 197,363. Divided and this application filed Jan. 22, 1919. Serial No. 272,500. 1 Claim. (Cl. 211—8.)

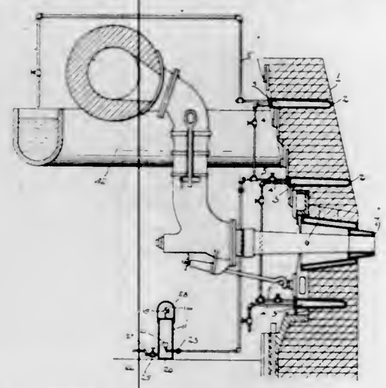
In coin-controlled delivery apparatus, the combination of a casing, an oscillatory delivery trough mounted therein and having a certain amount of free play, a grooved sheave portion carried by said trough, a spring having one end secured to said sheave portion within said

groove, and having its other end connected to said casing, a trunnion adjacent to said sheave portion and extending beyond said casing, a handle rigidly secured to said trun-



nion, means for locking said trough beyond the extent of said free play, said trough having a curved slot, and a stop on said casing engaging said slot.

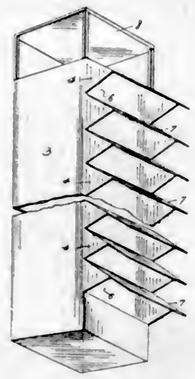
1,474,071. APPARATUS FOR DETECTING LEAKS IN BLAST-FURNACE-COOLING APPLIANCES. JOHN S. CROWTHER, Jr., Toledo, Ohio. Filed Jan. 31, 1921. Serial No. 441,196. 4 Claims. (Cl. 137—77.)



1. An apparatus for detecting leaks in furnace cooling appliances comprising a cooling liquid container adjacent the furnace combustion chamber, inlet and outlet passage-ways connected therewith, a reservoir, a conduit connected with said outlet passage-way and entering the side of said reservoir near its base, an enlarged upwardly turned discharge nozzle on the inner end of said conduit, a valve upon the upper portion of said reservoir, an outlet passageway connected with said reservoir near its base and a valve in said outlet passageway, said valves being adapted to cause the filling of said reservoir and thereafter to continue the flow of liquid through the same at a lower level with a partial vacuum formed within the reservoir thereby causing the accumulation of occluded gas within said reservoir wherefrom the leakage of said container may be determined.

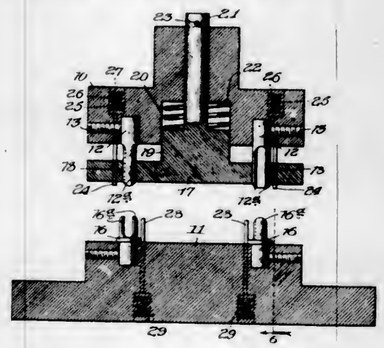
1,474,072. VENTILATING FLUE. CARL H. DAHMEN, Allentown, Pa. Filed Oct. 7, 1922. Serial No. 593,104. 1 Claim. (Cl. 98—26.)

A ventilating flue about which material may be stacked, said flue having attached thereto angularly disposed plates of such length that the lower ends of the plates will overlie the upper edges of adjacent plates to provide inlet openings to the interior of the flue, serrations projecting outwardly from the edges of the



flue between the plates to form guards for the openings between the plates and a cover plate maintained above the sides of said ventilator.

1,474,073. DIES FOR FORMING BALL RETAINERS. JOHN DLESK, Berwyn, Ill., assignor to U. S. Ball Bearing Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 4, 1922. Serial No. 541,148. 3 Claims. (Cl. 113—42.)

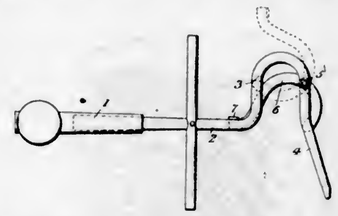


1. A die for forming ball retainers comprising opposing blocks, each carrying a die element, each of said elements having a plurality of prongs, said prongs being spaced a distance equal to the width of the opposing prongs, each prong forming a segment of a circle, so that as said elements approach each other, the prongs of one element telescope upon the prongs of the other.

1,474,074. MAIL CATCHER. JACOB J. FUEHRER, Central City, Nebr., assignor of one-fourth to Edward J. Patterson, Central City, Nebr., and one-fourth to the Firm of Jacobi & Jacobi, Washington, D. C., composed of Herbert J. Jacobi and William J. Jacobi. Filed July 20, 1921. Serial No. 486,308. 1 Claim. (Cl. 258—22.)

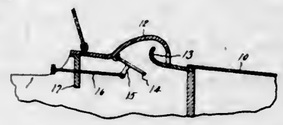
In a device of the class described, the combination with an arm having its outer end bent laterally to form a U-shaped receiving member and an extension continuing from the outer arm of the U-shaped member and bent outwardly at an acute angle to form a directing member therefor; of a latch hook pivoted at

a predetermined point on the under face of the outer arm of said U-shaped receiving member adjacent the crown of the latter, constituting a receiving means, said hook having its pivot point offset from the central por-



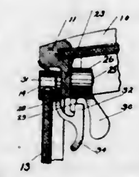
tion thereof and provided with a goose-neck extension at its inner end, and an upstanding lug formed integral with the side edge of said hook at the goose-neck end thereof adapted to contact with said arm to retain said latch hook in its receiving position.

1,474,075. VENTILATOR FOR AUTOMOBILES. FRANCIS V. GALLAUGHER, Lake Charles, La. Filed Aug. 2, 1922. Serial No. 579,278. 2 Claims. (Cl. 98—22.)



1. A cowl for an automobile having an opening therein with the forward edge directed upwardly and forwardly, and a cover carried by the rear edge of the opening and extending upwardly and forwardly in spaced relation over the forward edge and downwardly below the said forward edge and in spaced relation forwardly thereof.

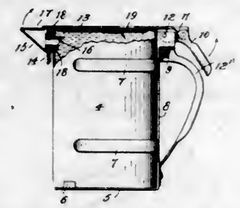
1,474,076. WINDSHIELD LATCH. GEORGE E. GRIMM, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 14, 1920. Serial No. 410,225. 15 Claims. (Cl. 296—84.)



1. In combination, windshield side posts, a windshield frame hinged to swing vertically and having side members adapted to rest against said posts, a retainer secured to one of said side members and having a projection adapted to extend to one side and to the rear of the adjacent post when the frame is closed, and latching means mounted upon the rear of said post to engage said retainer.

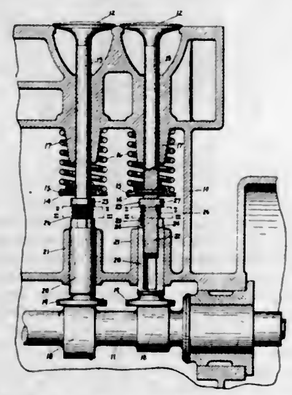
1,474,077. CAN HOLDER AND OPENER. LOUIS GRUNDHAND and OTTO ISELI, Salt Lake City, Utah. Filed Oct. 3, 1921. Serial No. 505,153. 2 Claims. (Cl. 65—61.)

1. A device of the character described comprising a base, a support secured to the base, a handle, a lever pivoted to said support, an arm pivoted to the lever and adapted to be positioned across the can, said arm being provided with pouring means and a downwardly



and rearwardly directed vent ripping point, said pouring means and the ripping point being adapted to puncture the can upon movement of the lever.

1,474,078. VALVE-ADJUSTING MECHANISM. WILLIAM F. HARRINGTON, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 10, 1919. Serial No. 276,118. 7 Claims. (Cl. 123—90.)



1. In a valve adjusting mechanism, the combination of a valve provided with a stem, a driven shaft for actuating said valve and stem, a reciprocably mounted member between said shaft and said valve stem, a screw forming a seat for said valve stem, said screw being threaded into said reciprocably mounted member in a manner to prevent the possible displacement of its axis, a coiled spring surrounding said screw and connecting said screw and said reciprocably mounted member exteriorly of the latter whereby the screw is automatically adjusted to compensate for increasing distances between the valve stem and shaft, and means serving to yieldingly hold said stem in engagement with said screw.

1,474,079. WEBBING FABRIC. CHARLES A. HORTON, Providence, R. I., assignor to Hope Webbing Company, Pawtucket, R. I., a Corporation of Massachusetts. Filed Apr. 1, 1922. Serial No. 548,757. 14 Claims. (Cl. 139—384.)



7. A multiply interwoven fabric comprising panels connected by an intermediate fold zone, the face ply of the fold zone having the longitudinal threads crowded together in such manner as to cause it to bulge trans-

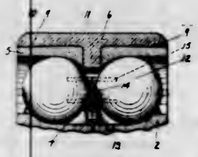
versely from the face of the fabric and the back ply following the general contour of the bulge, and spaced apart longitudinal binder threads binding the back ply to the face ply.

1,474,080. SPRING-SEAT CUSHION. FRED B. KING, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 6, 1920. Serial No. 414,957. 6 Claims. (Cl. 155—181.)



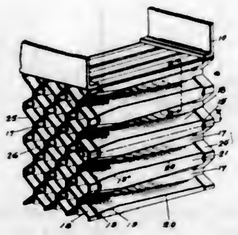
1. In combination, a base frame, a set of coil springs each having one end mounted on the base frame, means for holding positioned the opposite ends of the springs including a border wire extending around three sides of the set to which the adjacent springs are attached, an elongated cushion mounted upon the frame along that side of the said set of springs which is without a border wire, said cushion having a wire frame around the top thereof, and means for attaching said wire frame to the side elements of the border wire and to the upper ends of the adjacent' springs.

1,474,081. ANTIFRICTION BEARING. HARFORD C. KNOWLES, Elmira, N. Y., assignor to The Willys-Morrow Company, Elmira, N. Y., a Corporation of Ohio. Filed June 11, 1919. Serial No. 303,332. 8 Claims. (Cl. 64—59.)



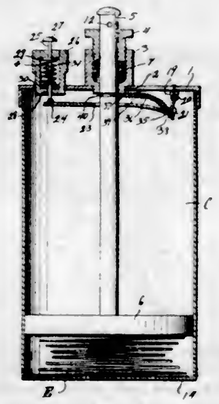
8. In a bearing, the plurality of anti-friction elements, a retainer having an annular base portion, spaced projections extending outwardly from the concentric edges of the base portion and adapted to project between adjacent anti-friction elements and terminating short of the plane of the centers of adjacent anti-friction elements, and seats for the said elements curved in such a manner as to provide a clearance between each anti-friction element and the ends of the adjacent projections.

1,474,082. RADIATOR. OSCAR H. KOELKER, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 29, 1918. Serial No. 264,605. 8 Claims. (Cl. 257—130.)



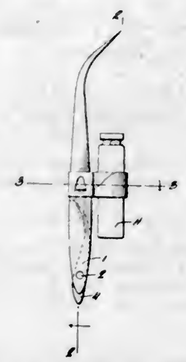
1. A radiator composed of a plurality of nested air cell units spaced to form water passages therebetween, each of said air cell units being composed of a pair of opposed plates of zig zag conformation, the faces of said zig zag plates at the body portion thereof being bent relatively abruptly from the front to a point between the front edge and the center of the plate, and hence gradually tapering to the rear edge of the radiator out of the plane of the front and rear edges thereof, whereby when said plates are secured together with the valleys of the zig zags facing each other, a plurality of transverse Venturi shaped air passages are formed.

1,474,083. DISPENSING DEVICE. CARL H. LEONARD, Pender, Nebr. Filed Apr. 10, 1922. Serial No. 551,165. 6 Claims. (Cl. 221—47.)



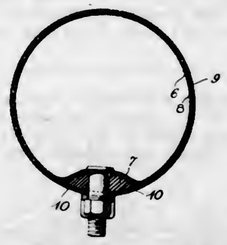
1. A device of the character described comprising a container provided with a discharge opening, a piston working within said container, automatic means for moving said piston in one direction to effect a force feed through the discharge opening, a valve mounted within the container, means for normally urging the valve into closed position, and means associated with the last named means for holding the piston against movement in one direction when in a predetermined position.

1,474,084. DENTAL APPLIANCE. FRANK T. MCCLASKEY, Sacramento, Calif. Filed Sept. 8, 1920. Serial No. 408,930. 2 Claims. (Cl. 128—354.)



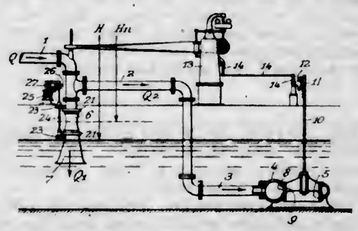
1. In a device of the class described, the combination of a pair of tweezers including a pair of legs having aligned openings formed therein, a supporting bracket surrounding the legs and provided with struck-out bendable tongues for penetrating said openings for holding the bracket securely in place on said tweezers.

1,474,085. INNER TUBE. JOHN RUY MEREDITH, Atlanta, Ga. Filed Apr. 18, 1922. Serial No. 554,693. 1 Claim. (Cl. 152—13.)



An inner tube for pneumatic tires comprising a two-ply non-elastic section forming a portion of the wall of the tube and an elastic section forming the remaining portion of the tube wall and secured at its edges between separate plies of the nonelastic section.

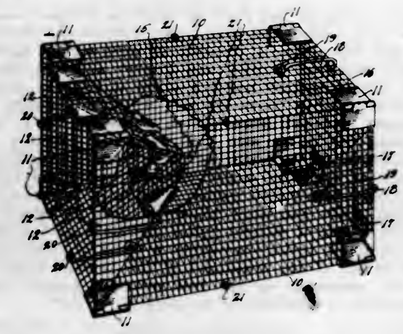
1,474,086. REGULATING WATER-POWER STATIONS. OSKAR POEBING, Munich, Germany. Filed Apr. 4, 1922. Serial No. 549,548. 13 Claims. (Cl. 253—97.)



1. A method of regulating the flow of water through water-power stations having enclosed water-supply conduits supplying water to the runners of the water wheels thereof; comprising regulating the flow of water through the turbine upon a variation of the load solely by the step of varying the effective head acting on the runner without causing an increase or decrease in the actual head in said conduits.

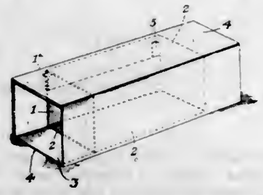
7. In a water-power plant having at least one turbine or water-wheel and at least one supply-pipe or closed conduit; means to divert water from said pipe or conduit, and means operated upon a change of load to solely control said diversion.

1,474,087. MINNOW TRAP. GEORGE H. PRIME, Norwich, N. Y. Filed Feb. 28, 1923. Serial No. 621,893. 3 Claims. (Cl. 43—100.)



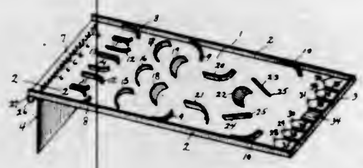
3. A trap comprising a plurality of sections having flexible hinged connections to fold upon each other, an entrance funnel formed of sections having fixed hinged connections foldable in opposite directions, said funnel being bodily pivoted to a wall of the trap to swing relative to the interior thereof, an end wall pivotally connected to one of the trap sections, and securing means for retaining said end wall in closed position.

1,474,088. COLLAPSIBLE METAL BOX. RICHARD S. REYNOLDS, Louisville, Ky. Filed July 26, 1920. Serial No. 398,865. 1 Claim. (Cl. 229—87.)



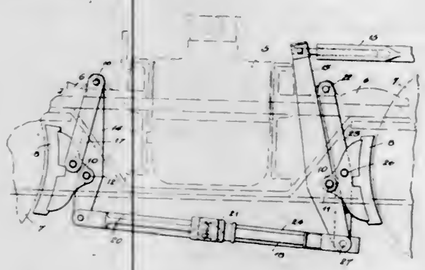
A receptacle of the class described consisting of a wrapper portion formed of comparatively heavy wrapping paper and creased to provide a plurality of foldable sections adapted to be folded to form a substantially rectangular body, tabs formed on one end of said paper, said paper being provided with tab receiving slots at its opposite end, a sheet of waxed paper secured to one face of the wrapping paper and having its longitudinal edges extending beyond the edges of the wrapping paper and also having one of its transverse edges projecting beyond the end of the foldable wrapping paper, a sheet of foil secured to the waxed sheet and adapted to entirely cover the same and the longitudinal edges of said waxed and foil sheets being adapted to be folded inwardly upon the ends of the body when the body is in a folded position to entirely close the ends thereof.

1,474,089. GAME BOARD. ALVA L. ROBERTS, Hubbard, Ohio. Filed Dec. 22, 1922. Serial No. 608,564. 1 Claim. (Cl. 46—61.)



In a device of the class described, an inclined board, side walls attached to said board, a lower end secured to said side walls, a plurality of pins equally spaced apart positioned parallel and located near the upper end of said inclined board, a series of inturned guides turning inwardly from the side walls, a plurality of inturned and outturned guides, positioned in a line between the upper side wall guides, a plurality of arch-shaped guides positioned in staggered arrangement, a pair of outturned guides positioned below the above mentioned arch-shaped guides, a centrally located arch-shaped guide positioned below the pair of outturned guides, a pair of straight guides positioned on each side of the single arch-shaped guide, a series of three pockets formed at the lower end of the inclined board, a pocket positioned between said series of pockets, substantially as described for the purpose set forth.

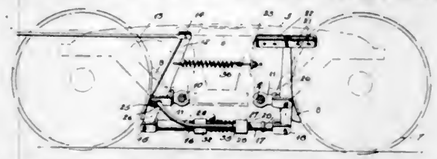
1,474,090. SLACK ADJUSTER. WILLIAM H. SAUVAGE, New York, N. Y., assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Filed Feb. 6, 1920. Serial No. 356,752. 8 Claims. (Cl. 188—199.)



5. In combination, a truck frame, live and dead levers at opposite sides thereof, a telescopic push rod connecting the lower ends of said live and dead levers, a brake shoe head connected with the live lever, a hanger supporting said head, means for a temporary take up and holding, and means for a permanent take up and holding, the first adapted to be operated on application of the brakes and the second on release of the brakes.

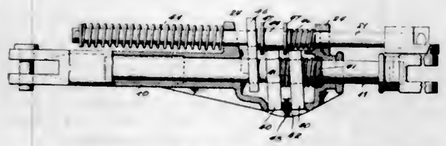
1,474,091. SLACK ADJUSTER. WILLIAM H. SAUVAGE, Flushing, N. Y., assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Filed Feb. 6, 1920. Serial No. 356,755. 14 Claims. (Cl. 188—199.)

5. In a slack adjuster mechanism, in combination, live and dead levers, a two part telescopic push rod connecting the lower ends of said levers, a housing having a dog therein adapted to prevent relative movement on application of the brakes, a second housing and dog coacting with one of the parts of said push rod adapted to be moved therealong when excess travel occurs and to change the relative length of said push rod on release of the brakes if excess travel has occured, and spring means



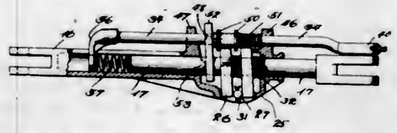
adapted to effect positive movement of the brakes to normal releasing position and to prevent relaxing the push rod position.

1,474,092. SLACK ADJUSTER. WILLIAM H. SAUVAGE, New York, N. Y., assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Filed Aug. 20, 1921. Serial No. 493,773. 7 Claims. (Cl. 188—199.)



5. In an automatic slack adjuster, in combination with brake levers, a telescopic push rod connecting said levers, an adjusting rod having a lost motion connection with one of the said levers, a spring coacting with one of the parts of said telescopic push rod, a return spring for the live lever, a plurality of holding dogs between the two parts of said telescopic push rod and a holding dog between one of said parts of the push rod and the adjusting rod.

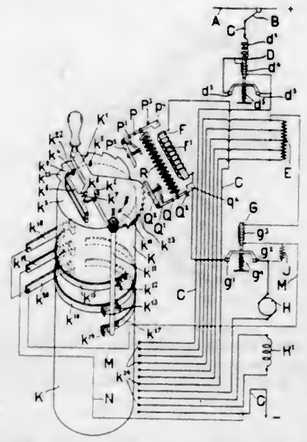
1,474,093. SLACK ADJUSTER. WILLIAM H. SAUVAGE, New York, N. Y., assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Filed Aug. 20, 1921. Serial No. 493,774. 16 Claims. (Cl. 188—199.)



5. In an automatic slack adjuster, in combination with brake levers, a two-part telescopic push rod interposed between said brake levers, holding means carried by one part and co-acting with the other, an adjusting rod positioned adjacent the push rod, one end of said adjusting rod being bent into line with the inner part of said push rod, and a spring coacting between the said inner end and the push rod adapted to cause an expansion of the push rod on excess travel of the brake rigging, the opposite end of said adjusting rod having an adjustable lost motion connection with one of said brake levers.

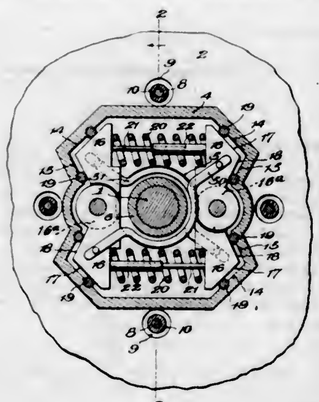
1,474,094. SWITCH DRUM FOR STARTING AND CONTROLLING ELECTROMOTORS. LUDWIG SCHÖN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 26, 1922. Serial No. 590,710. 3 Claims. (Cl. 172—179.)

1. The combination with a switch drum for starting and controlling motors, comprising a driving member for said drum, of a single acting magnetic locking device for preventing said driving member from return movement, said device being kept in its locking position by the armature current of the motor to be controlled when exceeding a predetermined value, said locking device comprising a magnet to be energized by said armature current and



two cooperative elements, one of these elements being formed by said driving member and the other element being placed under the influence of said magnet.

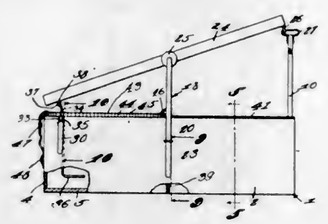
1,474,095. POWER-TRANSMISSION DEVICE. BENJAMIN F. SEYMOUR, Washington, D. C. Filed Jan. 3, 1919. Serial No. 269,482. 5 Claims. (Cl. 152—45.)



1. The combination of a shaft, a casing surrounding the shaft, means for transmitting power from one of said elements to the other including two sets of members mounted, respectively, on the shaft and casing and having opposed cam faces, one of said sets of members being pivotally supported, springs acting to force said pivoted members toward the other cam members, and rollers mounted in seats in the cam faces of one of said sets of members and contacting with the opposed faces of the other members.

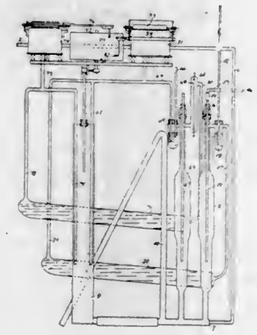
1,474,096. RAT TRAP. CARL SORENSEN, Greenwich, Conn. Filed July 8, 1922. Serial No. 573,592. 1 Claim. (Cl. 43—61.)

A trap comprising ends and sides, one of the ends having an opening; a combined lifting bail and fulcrum member including an intermediate portion and depending arms, the arms extending downwardly along the sides of the trap and terminating in inwardly extended fingers engaged with the sides of the trap; a combined support and reinforcing member including an intermediate member and arms extended downwardly along the sides of the trap, the arms being provided with fingers engaged in the sides of the trap and the sides of the trap having notches wherein the intermediate portion of the support



is received; a slidable door constituting a closure for the opening; a lever fulcrumed intermediate its ends on the fulcrum member and engaged pivotally with the door; a trigger mounted to swing on the support, the trigger and the lever being provided with interengaging elements; and a hinged top for the trap, the notches serving to space the intermediate portion of the support from the top.

1,474,097. RECORDING ANALYZING APPARATUS FOR AUTOMATIC ANALYSIS OF GASES. SCHACK AUGUST STEENBERG KROGH and PETER HARALD PEDERSEN, Copenhagen, Denmark. Filed May 21, 1920. Serial No. 383,244. 9 Claims. (Cl. 23—3.)

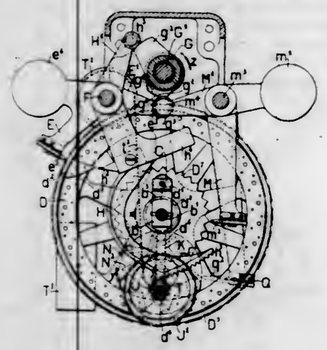


2. In an automatically operated gas-analyzing apparatus, being driven by a liquid, which is supplied continuously to the apparatus at constant pressure and in adjustable quantity, and is discharged periodically from the apparatus, comprising a first measuring vessel, an absorption vessel, a second measuring vessel and a recording drum, means for revolving said drum by the weight of a part of the driving liquid.

1,474,098. MEASUREMENT-STAMPING APPARATUS. HERMANN THUN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Dec. 8, 1921. Serial No. 521,017. 6 Claims. (Cl. 101—110.)

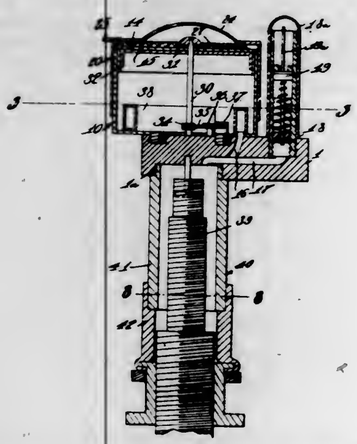
1. In a stamping apparatus of the character described, a plurality of type discs, locking means for each of said

type discs, and controlling means for said locking means, said controlling means so coacting with said locking



means that the locking means for the type disc for the lowest unit is first, and after it that for the type disc for the next higher unit, is operated.

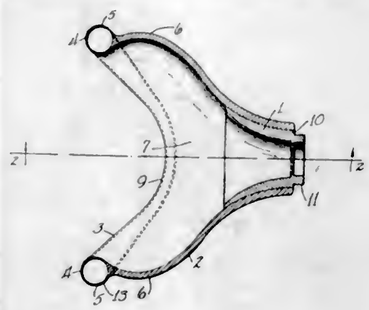
1,474,099. AUTOMATIC TIRE-PRESSURE GAUGE. RAYMOND L. WHIPPLE, DAVID P. ROCKWELL, and CHASE C. FEATHERSTONE, Lehi, Utah. Filed Apr. 8, 1922. Serial No. 550,826. 5 Claims. (Cl. 152—11.5.)



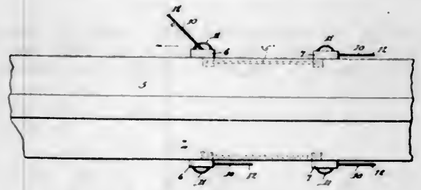
1. In an air pressure gauge of the class described, a housing including telescoping members, pressure indicating means located in said housing, and means connected with said indicating means positioned in the path of one of said housing members to be engaged by said member when in closed position to lock said indicating means against operation.

1,474,100. AUXILIARY MOUTHPIECE FOR TELEPHONES. OTTO W. AAGAARD, Chicago, Ill. Filed Jan. 19, 1922. Serial No. 530,378. 3 Claims. (Cl. 179—188.)

1. A mouthpiece having one end thereof fashioned into an elliptical opening, two diametrically disposed portions of the opening extending inwardly with respect to the plane of the opening whereby the opening is substantially U-shaped in cross section, the edge of the opening being provided with a cylindrical-shaped wall, the portion of the cylindrical-shaped edge disposed in the inwardly bent portions of the opening having diameters smaller than the diameters of the cylindrical edge spaced 90° therefrom, said mouthpiece having a smaller opening at its other end, the wall of the smaller opening being adapted to securely grip a telephone mouthpiece.

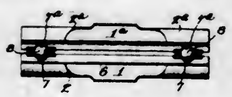


1,474,101. MAIL-BAG CATCHER AND DELIVERER. HERSCHEL F. ANDERSON, Huntsville, Ill. Filed Nov. 26, 1921. Serial No. 517,900. 4 Claims. (Cl. 258—11.)



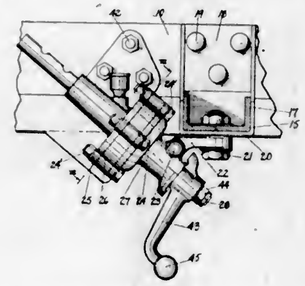
1. A mail bag catcher and deliverer, in combination with a stationary platform and mail car, comprising a pair of oppositely disposed mail bag supporting arms swingingly supported on the car, vertically adjustable spaced blocks having swinging arms attached to the platform, said last mentioned arms adapted for movement outwardly of the platform and above or below the car supported mail bag supporting arms, whereby mail bags may be simultaneously delivered from one pair of arms to the other when the car is moving in either direction.

1,474,102. PAPER CLIP. LEON H. ASHMORE, Collingswood, N. J. Filed Nov. 27, 1920. Serial No. 426,723. 9 Claims. (Cl. 24—252.)



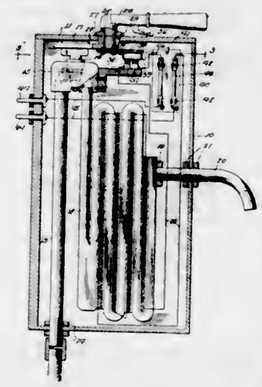
7. A paper-clip, comprising a pair of gripping jaws, operating handles carried thereby, lateral projections carried by said jaws on opposite sides of said handles; said projections being cupped to form seats or pockets, spherical bearing elements disposed in said seats and separating the gripping jaws, and a clamping spring embracing said projections and holding them in contact with the spherical bearing elements; said projections being arranged to form shoulders for engagement by the clamping spring.

1,474,103. STEERING-GEAR SUPPORT. EDWARD H. BELDEN, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed June 25, 1920. Serial No. 391,727. 10 Claims. (Cl. 74—79.)



1. In a steering mechanism for motor vehicles, a casing comprising a top plate adapted to be secured to the frame of the vehicle, a base member, and a cylindrical member positioned between the top plate and base member and clamped therebetween, and a reduction gearing protected by said casing, one element of said gearing being formed on said cylindrical member.

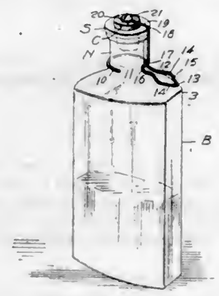
1,474,104. ELECTRIC WATER HEATER. WILLIAM EDGAR BURGESS, New Orleans, La., assignor of one-fifth to George F. Spence and two-fifths to Adolph Steinhardt, both of New Orleans, La. Filed June 15, 1922. Serial No. 568,559. 12 Claims. (Cl 219—39.)



1. In an electric water heater, a heating column, a heater for heating the column, means controlling energization of the heater, means operating the first means and controlling flow of water through the column movable from a position permitting maximum flow to restrict the flow and simultaneously energize the heater, and means limiting the second means to permit partial flow when the heater is energized.

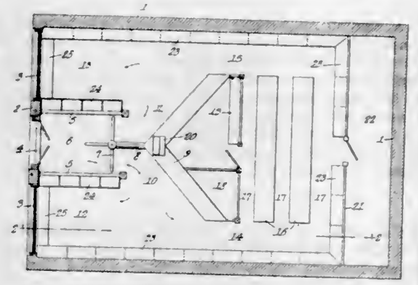
1,474,105. BOTTLE OPENER. ERNEST CAMP and ALBERT F. SCHATZEL, San Diego, Calif. Filed June 3, 1920, Serial No. 386,295. Renewed Sept. 18, 1922. Serial No. 589,012. 4 Claims. (Cl. 215—55.)

1. A bottle opener of the class described for bottles, provided at the upper end of the neck thereof with a bead, comprising, a curved member adapted without disengagement from the bottle neck to be vertically shiftable and mounted upon and rotatable about the neck of the bottle below said bead, said curved member being provided with an approximately horizontally disposed



portion forming a thumb piece, an upwardly extending portion connected with said thumb piece and provided upon its upper end with a horizontal portion adapted to extend over the mouth of a bottle and be secured to the cork thereof.

1,474,106. SELF-SERVICE STORE FOR A BUILDING HAVING LIMITED FLOOR SPACE. JAMES H. CARROLL, Charlotte, N. C. Filed May 6, 1922. Serial No. 559,077. 11 Claims. (Cl. 211—8.)



1. In a self-service store, the combination of a central doorway display windows and space for the display of goods on opposite sides of the central doorway, railings extending rearwardly from said doorway to form a passageway, a turnstile arranged in said passageway, a turnstile railing extending rearwardly from the center of the turnstile to form an entrance and exit passageway beyond the turnstile, and a substantially triangular cashier's compartment and counter, said triangular counter being of suitable width to provide passageways on either side thereof, said triangular counter having its apex contiguous to and aligned with the aforesaid turnstile railing.

1,474,107. SAFETY-RAZOR-BLADE HOLDER. DANIEL J. DALTON and WILLIAM A. BIONDI, Cincinnati, Ohio. Filed June 11, 1923. Serial No. 644,603. 2 Claims. (Cl. 30—25.)

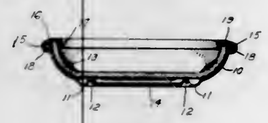
1. A safety-razor blade-holder comprising a fulcrum rock-bar having a body-portion of half-round cross-section, an upturned undercut projection at the fore end of the upper flat face of the said rock-bar, an angular extension at the rear end of the rock-bar the same being of half-round cross-section with its flat face disposed

downwardly, a screw-threaded shank of round cross-section extending beyond the said rear-end extension of the rock-bar and a handle having at its inner end an internally-threaded socket adapted to engage the said threaded shank on the rock-bar, the whole being ar-



ranged, constructed and adapted to reversely accommodate a flat razor-blade in the confines of the said fulcrum rock-bar and its angulated opposite ends, with the said handle in locking-contact with the rear or inner end of the confined or positioned blade, substantially as shown and described.

1,474,108. METHOD OF FORMING DECORATED ASH TRAYS. JOHN F. DOWNEY, Providence, R. I., assignor to Universal Safety Ash Tray Company, Inc., Providence, R. I., a Corporation of Rhode Island. Filed July 1, 1921. Serial No. 481,887. 3 Claims. (Cl. 41—22.)



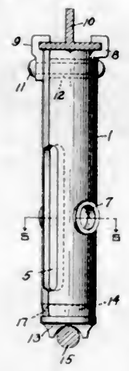
1. A method of forming an ash tray, which consists in marking figures or characters on the outer surface of a transparent tray lining receptacle, applying a coating material over the characters to protect them and also over the outer surface of said receptacle to ornament the same, and positioning this prepared lining receptacle in a base partially depressed to be out of contact with the characters and shaped to receive it and permanently and immovably securing this lining in its base.

1,474,109. SADDLE SUPPORT ADAPTABLE TO CYCLES AND MOTOR CYCLES. JULES CARLOS MARIE DUPONT, Valenciennes, France. Filed Nov. 21, 1921. Serial No. 516,770. 1 Claim. (Cl. 208—100.)



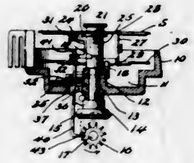
A saddle support for cycles including a pair of longitudinally spaced supporting members having upwardly curved ends, means for connecting the upper ends of the members together, means for attaching the medial portions to the cycles of the frame, an upwardly bowed semi-elliptical spring including a plurality of laminated plates, links having their lower ends pivoted to the ends of the spring and having their upper ends formed with tubular bearing portions for swingable engagement with the connecting means and for coacting with the connecting means for maintaining the members in proper spaced relation and a saddle carrying member connected medially of the ends of the spring, substantially as and for the purposes set forth.

1,474,110. BRAKE-BEAM FULCRUM STRUT. WILLIAM E. FOWLER, Jr., Pittsburgh, Pa., assignor to Liberty Steel Products Company, Inc., a Corporation of New York. Filed July 23, 1919. Serial No. 312,816. 4 Claims. (Cl. 188—231.)



2. A strut for a trussed brake beam comprising a section formed of sheet metal bent to cylindrical form with the seam extending longitudinally thereof and having oppositely arranged lever slots and pin-holes between its ends.

1,474,111. RIBBON SPOOL FOR TYPEWRITING MACHINES. CARL GABRIELSON, Syracuse, N. Y., assignor to L. C. Smith & Bros. Typewriter Co., Syracuse, N. Y., a Corporation of New York. Filed Apr. 14, 1922. Serial No. 552,771. 6 Claims. (Cl. 197—175.)

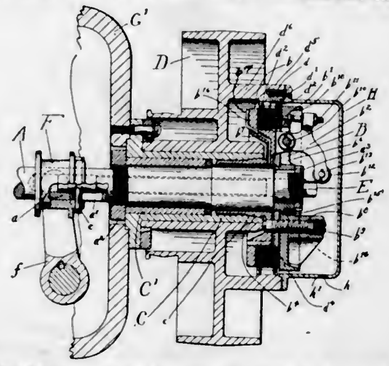


1. A typewriter ribbon spool having a core and top and bottom flanges, the bottom flange having a central aperture, and a cam surface facing said central aperture and inclined to a radius passing therethrough from the center of said aperture, for directing a cooperating member toward the central aperture when the spool is rotated on a ribbon spool shaft.

1,474,112. COMBINED CLUTCH AND BRAKE DEVICE. WILLIAM F. GROENE, Cincinnati, Ohio, assignor, by mesne assignments, to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a Corporation of Delaware. Filed June 9, 1920. Serial No. 387,748. 10 Claims. (Cl. 192—18.)

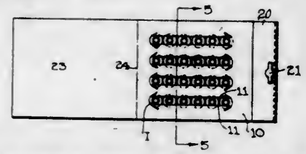
1. In a combined clutch and brake mechanism the combination with a driven shaft of a drive pulley mounted concentrically with the driven shaft, means to impart the motion of the pulley to the driven shaft and comprising a lug formed on the pulley, a series of friction rings engaging the lug, a friction plate and a friction collar

mounted upon the driven shaft, means to relatively move the friction plate and friction collar from and into clamp-



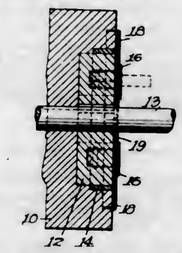
ing engagement upon the friction rings, and means to check the driven shaft when the clamping engagement is broken.

1,474,113. PACKAGE. CARL C. HARRIS, Orange, Mass., assignor to Rivet-O Manufacturing Company, a Corporation of Massachusetts. Filed Mar. 5, 1921. Serial No. 449,959. 3 Claims. (Cl. 206—46.)



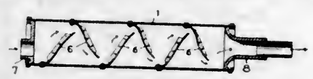
1. As an article of manufacture, a package comprising a base member of sheet material having a plurality of pairs of longitudinal slits arranged in parallel and spaced relation to each other and extending through the base member and having between them a series of strips depressed below the plane of said base member and connected with the base member and each extending in one continuous piece from one end of said slits to the other for receiving and supporting the heads of a plurality of rows of the articles to be supported which rest on the strips with their shanks projecting up above the base member through the space between the slits and having means for admitting the heads under them and permitting their discharge therefrom longitudinally of the slits.

1,474,114. WEDGE FOR USE IN WOOD ROLLS AND THE LIKE. CARL C. HARRIS, Orange, Mass., assignor to Rodney Hunt Machine Company, Orange, Mass., a Corporation of Massachusetts. Filed Apr. 5, 1922. Serial No. 549,956. 7 Claims. (Cl. 64—41.)



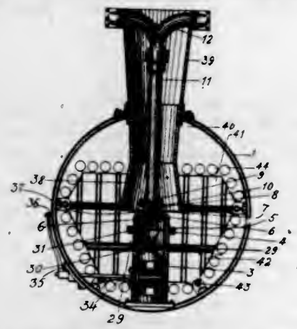
5. As an article of manufacture, a wood roll having a shaft, a gudgeon at the end, a ring surrounding the gudgeon, a metal cover plate over the end of the roll covering the gudgeon, and hollow metal wedges of circular shape driven into the end of the roll between the arms of the gudgeon and inside the ring, said wedges passing through the cover plate and having flanges engaging the outer surface of the cover plate to hold it in place.

1,474,115. MEANS FOR SILENCING EXPLOSION NOISES CONNECTED WITH MOTOR CARS, MOTOR VEHICLES; CYCLE, GAS, OIL, AND STEAM ENGINES. FREDERICK HEATHER, Kenilworth, near Cape Town, South Africa. Filed June 12, 1923. Serial No. 645,003. 2 Claims. (Cl. 137—160.)



1. A silencer for internal combustion engines including a hollow casing rectangular in cross-section having an inlet at one end and an outlet at the other end, a plurality of oppositely curved baffle plates secured alternately to the bottom and top of the casing throughout the length thereof and dividing the casing into communicative expansion chambers, the outer curved end of each baffle plate projecting slightly over and in closely spaced relation to the curved inner attaching portion of the adjacent plate so as to also provide a symmetrical wave-like course for the gases as they pass through the successive chambers.

1,474,116. BOILER CONSTRUCTION. TEODORO LABREY and LUIS GODARD, Mexico, Mexico. Filed July 9, 1919. Serial No. 309,550. 3 Claims. (Cl. 110—163.)

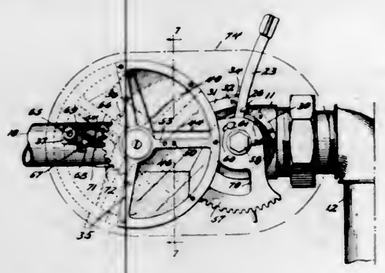


1. In a boiler operating under forced draft, the combination, with the smoke stack, the front and rear flue plates and their connecting flues; of a chamber immediately adjacent each flue plate and in which flames, hot gases and smoke are present; and a combined draft equalizer and products of combustion deflector consisting solely of an imperforate deflecting element of less area than the adjacent flue plate suspended vertically in one of said chambers in rear of the smoke stack opposite and in spaced relation to the flue openings and with its margin continuously spaced from the circumferential walls of said chamber so as to cause the flames, hot gases and smoke to be drawn by the forced draft around the marginal edges of said deflecting element in a uniform manner; substantially as described.

1,474,117. FLUSHING VALVE. JOSEPH P. MEYER, Rochester, N. Y. Filed Aug. 9, 1922. Serial No. 580,744. 11 Claims. (Cl. 161—7.)

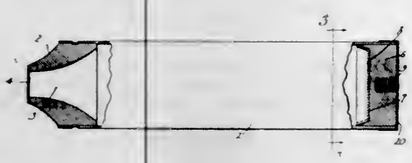
1. In a device of the class described the combination with a valve, of manually operable means for opening it, means for closing it, and means for causing said closing

means to operate at the expiration of a predetermined time after opening including a timer of hour-glass form



and means actuated by the opening means for moving said hour-glass timer to operative position.

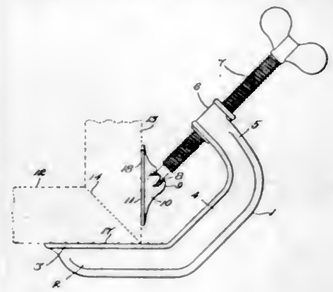
1,474,118. GREASE CARTON. ORIN A. RICE, Weyauwega, Wis. Filed Apr. 7, 1921, Serial No. 459,375. Renewed Apr. 2, 1923. 1 Claim. (Cl. 221—78.)



A combined carton and grease gun including a body, a plug seated in one end of the body and slidable therein, this plug having its outer face normally flush with one end of the body and its inner face formed with a concentric recess, a packing material secured within the recess for engagement with the inner surface of the body, there being a recess in the outer face of said plug for the reception of operating means, a sealing disk secured to the outer face of said plug and to the body and normally holding the plug against outward movement relative to the body and normally closing the recess in the outer face of the body, a plug fixedly secured in the other end of the body and having a reduced end portion projecting beyond the body to form a nozzle, there being a passage extending through the last named plug, and a sealing disk secured to the projecting end of said plug for closing the outer end of the passage.

1,474,119. MITER CLAMP. COLIN ROBERTSON, deceased, late of Antrim, N. H., by Annie R. Robertson, executrix, Antrim, N. H., assignor to William H. Banks, Winthrop, Mass. Filed Mar. 1, 1923. Serial No. 622,139. 1 Claim. (Cl. 144—293.)

A miter clamp comprising a frame member having an arm provided with a face which constitutes a fixed jaw member, and having another arm formed with a tapped-out aperture whose axis is at an angle to the plane of the operative face of said fixed jaw, a feed screw having working engagement with said tapped-out aperture and having an axial movement in a line at an acute angle to the operative face of said fixed jaw, a jaw mounted on the inner end of said feed screw and having a swivel joint connection therewith, said movable jaw being automatically adjustable by reason of its swivel connection with the feed screw in such manner as to vary the angle of the operative face of said jaw with relation to the operative face of the fixed jaw, according to the angle

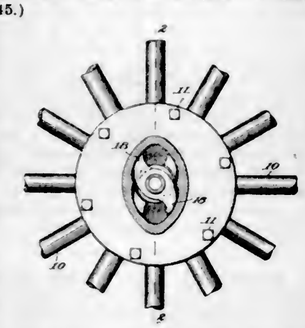


of the two faces of the work which are respectively engaged by said jaws when in clamping engagement therewith.

1,474,120. DECOLORIZING MATERIAL AND PROCESS OF MAKING SAME. HUGH RODMAN, Oakmont, and EARL E. BOREN, Swissvale, Pa., assignors to Rodman Chemical Company, a Corporation of Pennsylvania. Filed June 4, 1918. Serial No. 238,162. 7 Claims. (Cl. 127—2.)

7. The method of making decolorizing material, which consists in charring rotted coal, by passing it through a rotating kiln while subjecting it to a charring temperature and then subjecting the hot rotted coal to the action of a flow of highly heated fluid.

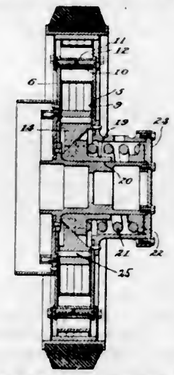
1,474,121. RESILIENT TRANSMISSION AND BEARING. BENJAMIN F. SEYMOUR, Washington, D. C. Filed June 7, 1919. Serial No. 302,411. 8 Claims. (Cl. 152—45.)



1. In a combined resilient bearing and transmission, the combination of a driving element, a driven element, movable radially of the driving element, a pair of spring-torsioned and pivotally mounted members carried by one of said elements, and means associated with the other element co-operable with said pivoted members to provide a resilient bearing and transmission between said elements, for the purpose set forth.

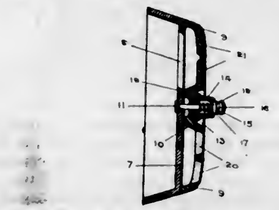
1,474,122. RESILIENT TRANSMISSION AND BEARING. BENJAMIN F. SEYMOUR, Indianapolis, Ind. Filed July 15, 1919. Serial No. 310,970. 3 Claims. (Cl. 152—45.)

1. In a combined resilient bearing and drive for vehicle wheels, the combination of a hub member, a rim member mounted to have limited radial movement on said hub member, a sleeve member axially movable on the hub member, said rim and sleeve member having respectively annularly arranged and right-angled cam surfaces,



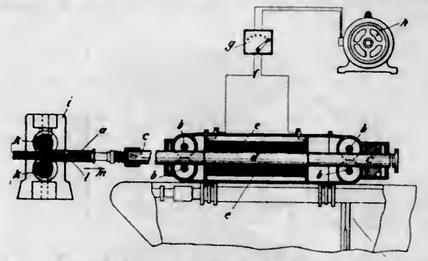
the surfaces of the sleeve and rim being in contact, and a resilient member holding said surfaces in engagement, substantially as set forth.

1,474,123. DAMPER. ADOLPH SPECHT, Quincy, Ill., assignor to Gem City Stove Manufacturing Company, Quincy, Ill. Filed July 2, 1923. Serial No. 649,057. 3 Claims. (Cl. 126—290.)



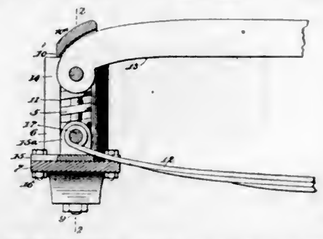
1. A damper construction comprising a wall having an opening, and a dished damper pivoted centrally to said wall and having its edge abutting said wall, the damper having a diametrical partition abutting said wall, the diameter being imperforate at one side of said partition to extend across and close said opening and being open at the opposite side of said partition to register with the first named opening.

1,474,124. ROLLING MILL. FRITZ STEINECKE, Remscheid, Germany, assignor to the Firm: Mannesmannröhren-Werke, Dusseldorf, Germany. Filed July 12, 1923. Serial No. 651,031. 3 Claims. (Cl. 80—14.)



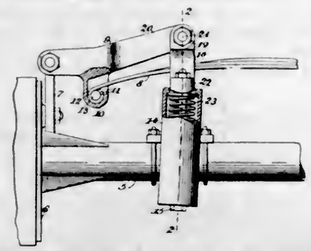
3. A feeding device for rolling mills of the pilgering type consisting of a work carrier and means for moving and holding the same in position at a desired point comprising an iron part on the work-carrier and a solenoid containing several coils and means for controlling the electrical current in the several coils.

1,474,125. SHOCK ABSORBER. STANLEY J. VESELY, Cedar Rapids, Iowa. Filed Oct. 27, 1921. Serial No. 510,738. 2 Claims. (Cl. 267—29.)



1. A shock-absorber, comprising a pair of separated springs, slotted housings for said springs, a connecting yoke, spring-receiving lugs projecting upwardly from the yoke, and a bridge, slidable in said slots, and bearing on the pair of springs, provided with depending lugs to engage an upper member.

1,474,126. SHOCK ABSORBER. STANLEY J. VESELY, Cedar Rapids, Iowa. Filed Jan. 27, 1922. Serial No. 532,288. 1 Claim. (Cl. 267—17.)



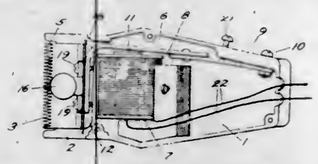
In combination with an axle and supporting post, a leaf spring-lever pivoted to the post, and having a depending, rigid member to engage the spring-eye pivotally, coil-spring supporting barrels disposed on each side of the axle, a yoke playing up and down therein, connecting with the free end of the lever pivotally, its lateral arms being rounded below, and pierced to receive spring-bolts loosely, coil springs seated in said barrels, the barrels being inwardly flanged to retain their ends, bolts passing through the springs and loosely through the yoke-arms, and washers secured to the opposite ends of the bolts, whereby the bolts remain stationary except in the extreme upward rebound of the yokes.

1,474,127. SAFETY PIN. FRANCIS M. WAGNER, Pittsburgh, Pa. Filed Jan. 18, 1923. Serial No. 613,379. 1 Claim. (Cl. 24—161.)



A safety pin formed of a single length of wire and including a body shank and a pin shank, continued through a resilient coil, the length of wire being at one end pointed and at the other end being coiled to the form of an angular spiral extending in a plane perpendicular to the body shank, whereby a channel is defined for the point of the pin in opening and closing, consisting of angularly disposed straight-line reaches, the inner reach extending in the plane of normal swing of the pin.

1,474,128. ELECTRIC CLIPPER. LEO J. WAHL, Sterling, Ill. Filed Sept. 22, 1922. Serial No. 589,919. 5 Claims. (Cl. 30—1.)

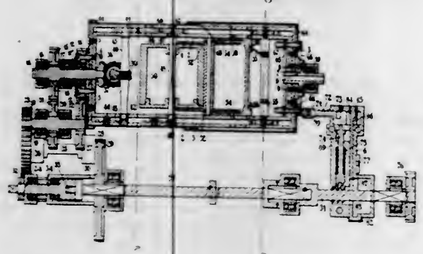


1. A device of the class described, comprising a hollow handle, provided at one of its ends with a stationary clipper blade; a clipper blade slidable on said first-named blade; an electro-magnetic mechanism contained in said handle and adapted for connection with a suitable source of power; an armature member supported in said handle so as to receive a vibratory action from said electro-magnetic mechanism; and means attached to said armature member, having a loose connection with said movable blade, and capable of exerting a desired amount of pressure thereon.

1,474,129. MANUFACTURE OF MODIFIED STARCH. LEOPOLD WEISS, Vienna, Austria. Filed Jan. 4, 1923. Serial No. 610,695. 4 Claims. (Cl. 127—33.)

3. A process which comprises grinding together a starchy material and about 5 to 10% of its weight of a caustic alkali, both in the normal dry state, whereby the starch is so modified that it will swell in cold water.

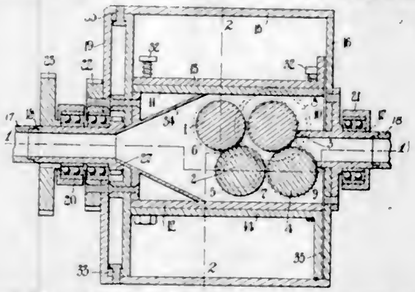
1,474,130. SPINNING MILL. THEOPHILUS ZACHARIADIS, London, England. Filed Nov. 3, 1922. Serial No. 598,891. 8 Claims. (Cl. 118—51.)



1. Apparatus for spinning a roving or the like into a thread of any desired degree of twist including a rectangular frame rotatably mounted at the respective ends thereof, a resiliently controlled cradle slidably mounted transversely of the frame, a bobbin rotatably mounted in the cradle, a cylinder rotatably mounted transversely of the frame and frictionally engaged with the bobbin to effect rotation of the bobbin, and means for driving said frame and cylinder.

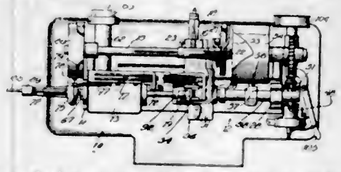
1,474,131. APPARATUS FOR DRAWING AND TWISTING SLIVERS AND THE LIKE. THEOPHILOS ZACHARIADIS, London, England. Filed May 12, 1923. Serial No. 638,515. 4 Claims. (Cl. 19—154.)

1. Apparatus for automatically and continuously reducing the cross-sectional area of a loose bundle of fibers or the like to any desired degree by simultaneously drawing and temporarily twisting the material acted upon, including a hollow shaft, a frame arranged to rotate on said hollow shaft about its longitudinal axis and a plurality of rollers carried in said frame and having parallel axes transverse to the axis of the frame, the rollers being geared together in pairs in such a manner that the corresponding members of each pair rotate in the same direction at different speeds, while the individual members of each pair rotate in opposite directions at equal speeds, and means for rotating simultaneously all said rollers about their axes and said frame



about its longitudinal axis, the plane containing the axes of one pair of rollers being parallel to the plane containing the axes of the adjoining pair of rollers and both said planes being inclined to the longitudinal axis of the frame.

1,474,132. AUTOMATIC SCREW MACHINE. WILHELM G. ALDEEN, Rockford, Ill. Filed June 21, 1920. Serial No. 390,531. 19 Claims. (Cl. 10—21.)

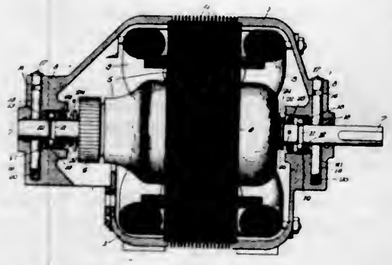


1. In a device of the class described, a rotary tool adapted to machine a stationary piece of stock, a rotary tubular support for said tool, and means for conducting a supply of fluid through said support to said tool, said support having a plurality of parallel annular V-shaped grooves in its outer periphery adapted as stops to limit the backward flow of fluid from the tool along the outer periphery of said support.

1,474,133. POLISH FOR ENAMELED SURFACES. WILLIAM H. ALLEN, Detroit, Mich. Filed Aug. 10, 1922. Serial No. 581,025. 4 Claims. (Cl. 148—8.)

1. A liquid compound for cleaning enameled and varnished surfaces of iron and steel, which consists of an emulsified fatty substance and a solution of phosphoric acid.

1,474,134. BEARING. VINCENT G. APPLE, Dayton, Ohio. Filed May 5, 1921. Serial No. 467,184. 5 Claims. (Cl. 64—36.)



5. A bearing comprising a frame having an open ended cylindrical chamber therein, a shaft projecting into said chamber and having a circumferential groove therein, a

flanged ring slidably fitting within the chamber, a series of balls in the shaft groove and encircled by the flanged ring, a spring for yieldingly pressing the flange of the ring against the balls, a fibrous disc carried by the shaft and closing the open end of the chamber, and an oil cup leading to the shaft to convey oil to the chamber.

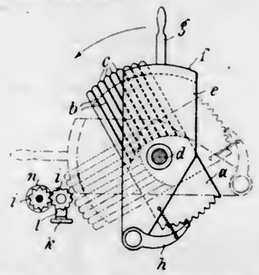
1,474,135. LIQUID FUEL FOR MOTORS. ARTHUR A. BACKHAUS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Original application filed June 25, 1918, Serial No. 241,755. Divided and this application filed May 28, 1921. Serial No. 473,327. 9 Claims. (Cl. 44—9.)

1. A fuel comprising a petroleum distillate and a butyl alcohol having a strength above 98%.

1,474,136. PROCESS OF TREATING OILS. FREDERICK W. BAYARD, Chester, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 17, 1918. Serial No. 250,310. 7 Claims. (Cl. 196—26.)

1. The process of removing olefines and other unsaturated compounds from a coal tar distillate composed chiefly of the aromatic hydrocarbons benzol, toluol and solvent naphtha, while avoiding great loss of aromatic hydrocarbons, which comprises washing said distillate with dilute sulfuric acid of from about 70 to 75% strength to form a sludge acid containing tar, allowing the mixture to settle, and separating the sludge acid from the mixture of aromatic hydrocarbons.

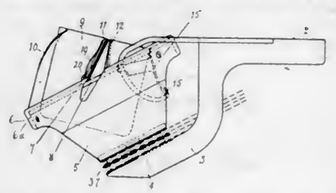
1,474,137. ADJUSTING MECHANISM FOR CALCULATING MACHINES. LUDWIG BECKENBAUER, Munich, Germany. Filed Oct. 31, 1922. Serial No. 598,057. 1 Claim. (Cl. 235—73.)



Adjusting mechanism for calculating machines with adjustable peg wheel comprising in combination with the summing up device a peg wheel consisting of a disk of elastic material divided by narrow slits into elastic pegs, a tooth-shaped head of each peg, a cam disk, a concentric extension of said cam disk having an inclined end surface designed to act upon the pegs to bend the same in lateral direction so that said pegs return by elasticity to the initial position as soon as they are released by said cam disk.

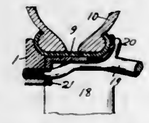
1,474,138. LOCK-STITCH SEWING MACHINE. FREDERICK JOHN TURNER BELL and HARDY CECIL BELL, Mossley, England. Filed July 12, 1920. Serial No. 395,509. 3 Claims. (Cl. 112—181.)

1. Lock stitch mechanism for a sewing machine, comprising a hook plate carrying a loop taking hook to engage the needle thread loop, a plate surrounded by and entirely supported by the said hook plate and forming a race therefor, an underthread bobbin casing fitted within said race plate, the hook plate having an axis of rotation inclined to the vertical and the bobbin casing being also inclined to the vertical and inclined at an angle to the axis of the hook plate with its upper open end towards the operator's side of the machine and driving means for the hook plate comprising a wheel



pivoting on the lower side of the machine bedplate and having an oscillatory motion; a driving block secured to the hook plate, and connections between said wheel and said driving block to communicate the oscillations of the former to the latter.

1,474,139. DEVICE FOR LOCKING DEMOUNTABLE TIRE-CARRYING RIMS TO ROAD VEHICLES, ETC. ERNEST ALFRED BRADSHAW, CECIL WILLIAM SIM BLACK, and ARTHUR PERCIVAL NICHOLLS, North Sydney, New South Wales, Australia. Filed Apr. 6, 1920. Serial No. 371,586. 1 Claim. (Cl. 224—29.)



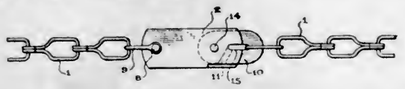
In a device for locking tire rims in place, a holding member having a screw threaded portion thereon, an integral horn piece projecting from said holding member and adapted to engage one edge of the tire rim, a circular nut having an eccentrically located opening to engage the threaded portion of said member, said nut having a hollowed out portion diametrically opposite the opening and adapted to engage the edge of the tire to cooperate with the horn in holding the rim in place.

1,474,140. MEDICINAL PREPARATION. HENRY J. BROWN, Cleveland, Ohio. Filed Feb. 10, 1921. Serial No. 443,895. 7 Claims. (Cl. 167—11.)

1. A medical preparation for internal use containing dry magnesium peroxide mixed with a dry water-soluble organic acid.

3. A dry medicinal preparation for internal use containing magnesium peroxide mixed with from about one tenth to about one third of its weight of tannic acid.

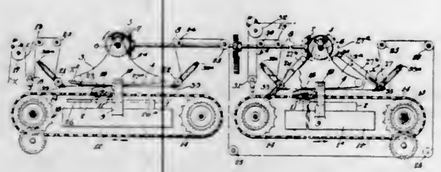
1,474,141. CHAIN FASTENER. THOMAS W. BURKETT, Falls Creek, Pa., assignor of one-half to Peter Burkett, Mayport, Pa. Filed Oct. 18, 1922. Serial No. 595,388. 2 Claims. (Cl. 24—232.)



1. A fastening device for the side chains of anti-skid chains comprising side plates arranged side by side, a spacing block between said plates at one end thereof, a securing link pivoted between said plates at the other end thereof, said securing link being formed with a diagonal slot opening onto one edge thereof and with a straight longitudinal slot communicating with the inner end of said diagonal slot, and said side plates at the

ends in proximity to said link being formed with alining slots adapted to register with said straight slot in said link when the longitudinal axis of the plates and the link are coincident and parallel, substantially as and for the purpose described, said longitudinal slot of the link and the pivot of the latter being alined in a plane parallel with the longitudinal axis of the link.

1,474,142. WEB-PRINTING MACHINE. JOHN D. CAPLINGER, Newark, N. J., assignor to Carl A. Kellogg, New York, N. Y. Filed Sept. 14, 1918. Serial No. 254,162. 46 Claims. (Cl. 101—256.)



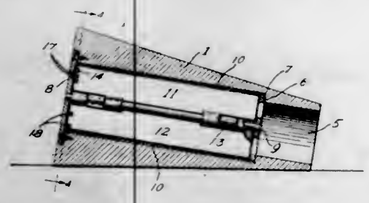
1. A web printing machine having a printing couple including members one of which is a bed stationary during operation and is adapted to support a flat form, and the other of which is a movable impression member, having a curved segmental impression surface, means for operating the movable impression member of said printing couple to permit rolling co-action between said members during impression and to move the movable impression member toward and away from the stationary member, and means for moving the web between the members of the printing couple with periods of rest or dwell during impression.

1,474,143. INKING PAD. ARTHUR B. CARROLL, Baltimore, Md., assignor to Baumgarten & Co. Incorporated, Baltimore, Md., a Corporation of Maryland. Filed June 14, 1922. Serial No. 568,128. 3 Claims. (Cl. 91—54.5.)



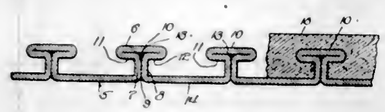
1. In an inking-pad the combination with a base-plate having down-turned walls with up-turned flanges to form a channel around the plate, of padding on the plate and a fabric covering over the padding said covering having its edges extended down into said channel between the wall and flange and clamped between the two.

1,474,144. ROTARY CLEARER. ALBERT COOK, Holyoke, Mass. Filed Sept. 22, 1921. Serial No. 502,553. 4 Claims. (Cl. 19—190.)



1. In a rotary clearer, the combination of a clearer body having a passage therein, and means for causing air to be discharged from said passage.

1,474,145. PLASTER-RECEIVING BOARD. HARRY A. CUMFER, Chicago, Ill., assignor of one-half to Albert D. Stewart, Hutchinson, Kans. Filed Jan. 23, 1922. Serial No. 531,037. 3 Claims. (Cl. 72—116.)



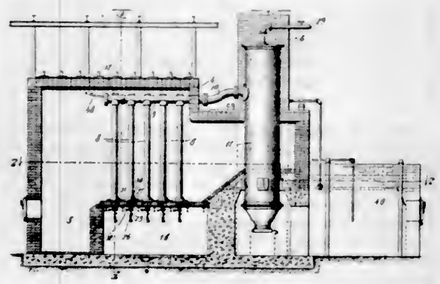
1. A plaster-receiving board comprising a single sheet uniformly coated throughout with an adhesive plastic material and crimped to form a series of parallel, laterally extending, integral, plaster-keying ribs, the sides of the ribs cemented together by the contacting coating.

1,474,146. FUSE CARTRIDGE. FREDERICK A. FELDKAMP, Newark, N. J. Filed Aug. 23, 1919. Serial No. 319,303. 4 Claims. (Cl. 200—120.)



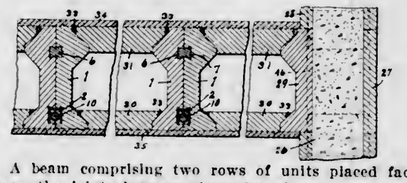
4. In a device of the kind described, a containing cartridge, a fuse element enclosed within said containing cartridge, said containing cartridge having vent means, and a layer of steel wool arranged within said containing cartridge in back of said vent means.

1,474,147. DISTILLING AND CRACKING PETROLEUM. JOHN LATHROP GRAY, Elizabeth, N. J. Filed Oct. 25, 1918. Serial No. 259,649. 4 Claims. (Cl. 196—25.)



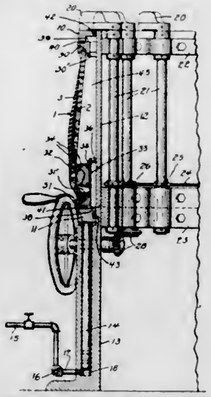
2. Apparatus for the refining of petroleum, comprising a series of upright tubes, said tubes being provided with a filling of molten material, injectors for the petroleum, said injectors discharging into the lower ends of the tubes and forming a continuation thereof of relatively small bore, means for congealing that part of the molten material that finds its way into the injectors, means for re-melting the congealed material, and means for creating a petroleum pressure in the system back of the several injectors so that on said re-melting of the petroleum will immediately rush into the injectors and on into the main body of molten material above; substantially as described.

1,474,148. BUILDING CONSTRUCTION. RALPH Z. HOPKINS, Detroit, Mich. Filed July 29, 1920. Serial No. 399,661. 11 Claims. (Cl. 72—1.)



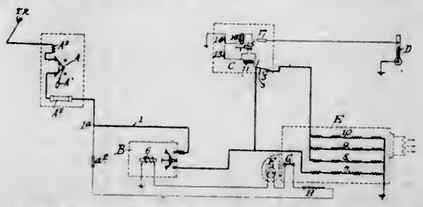
1. A beam comprising two rows of units placed face to face, the joints between the units of each row alternating with those of the other row, units of the two rows having registering grooves to constitute longitudinal passages, a tension member mounted in one passage, and connectors mounted in the other passage to hold the two rows of units together.

1,474,149. PROCESS AND APPARATUS FOR MANUFACTURING TIRE CASINGS. ERNEST HOPKINSON and JOHN P. COE, New York, N. Y.; said Coe assignor of his entire right to The Hartford Rubber Works Company, a Corporation of Connecticut. Filed Sept. 24, 1921. Serial No. 502,937. Renewed Apr. 23, 1923. 20 Claims. (Cl. 154—10.)



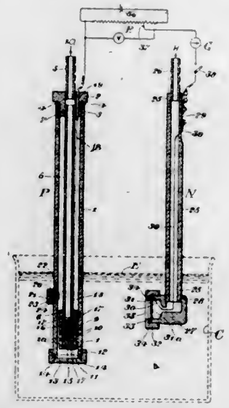
1. That method of making a tire casing for motor vehicles which consists in, forming a pulley-band to tire shape by means of fluid under pressure in direct contact with its interior, retaining the thus-shaped casing in form by trapping fluid under pressure in direct contact with its inner surface, and subsequently vulcanizing the casing.

1,474,150. ELECTRIC HEATING SYSTEM. LEE P. HYNES, Albany, N. Y., assignor to Consolidated Car-Heating Company, Albany, N. Y., a Corporation of West Virginia. Filed Oct. 4, 1921. Serial No. 505,425. 23 Claims. (Cl. 219—20.)



1. An electric heating system comprising heating coils, a casing therefor having an outlet duct leading into the compartment to be heated and an inlet duct supplied with air by a blower, an electric motor for the blower, a circuit-closer for the heating coils and a magnet in the circuit of the motor and in series therewith directly controlling the said circuit-closer.

1,474,151. ELECTRODE FOR ION CONCENTRATION EFFECTS. EARL A. KEELER, Norristown, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 30, 1921. Serial No. 518,763. 37 Claims. (Cl. 204—5.)



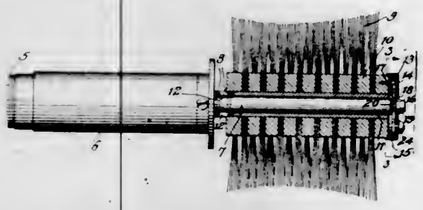
1. Electrode structure comprising a member of insulating material having a passage, a second perforated member of conducting material extending across said passage and adapted for immersion in liquid, an electrical connection with said second member, and means for conducting fluid through said passage to said second member.

1,474,152. INDUCTION COIL. ARTHUR ATWATER KENT, Ardmore, Pa. Filed Jan. 8, 1921. Serial No. 435,792. 32 Claims. (Cl. 125—360.)



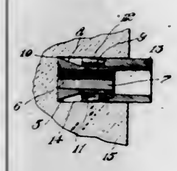
1. An induction coil comprising a magnetizable core, a secondary winding surrounding said core and insulated therefrom, a primary winding surrounding said secondary winding, a metallic enclosing casing insulated from said windings and from said core, a cap of insulating material closing said casing, a secondary terminal carried by said cap and connected to one end of said secondary winding, and two primary terminals carried by said cap, one of said primary terminals connected with the other end of said secondary winding.

1,474,153. MEANS FOR DETACHABLY CONNECTING AN OPERATING MEMBER TO A POWER-DRIVEN SHAFT. BENJAMIN W. KLEIN, Mount Vernon, N. Y. Filed Oct. 16, 1922. Serial No. 594,965. 4 Claims. (Cl. 287—53.)



4. In combination with an operating shaft, a tool having a body and a tubular core extending centrally therethrough and projecting beyond one end of said body, said projecting end of the core having diametrically opposed slots, spaced pins projecting from opposite sides of the shaft for engagement in the respective slots to prevent rotation of the tool upon said shaft, a cap secured upon the other end of said tool body and having a central opening, the shaft terminating in a frustro-conical head adapted to extend through said opening and provided with an annular groove at the inner side of said head, a curved lever pivotally mounted at one of its ends within said cap, a spring normally urging said lever in one direction and yieldingly resisting movement of the lever upon engagement of the frustro-conical head with the inner edge of said lever and acting to return the lever to its normal position with its inner edge engaged in said annular groove whereby the tool is held against axial movement on the shaft, and means for manually operating said lever from the exterior of the cap whereby the lever may be disengaged from said groove and the tool detached from the shaft.

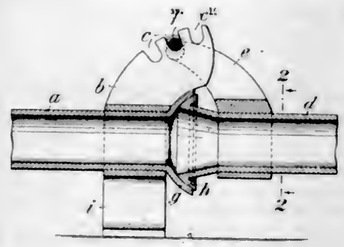
1,474,154. ANCHORAGE UNIT. GOTTFRID KOHLER, Bridgeport, Conn., and CHARLES B. SMITH, Seattle, Wash., assignors to Cinch Expansion Bolt & Engineering Company, New York, N. Y., a Corporation of New York. Filed June 1, 1921. Serial No. 474,237. 5 Claims. (Cl. 72—105.)



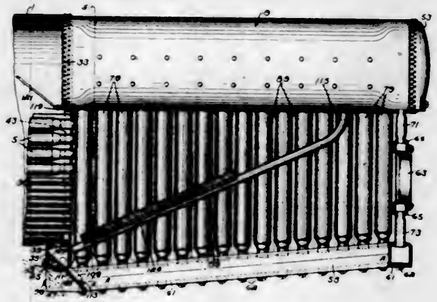
1. An anchorage unit consisting of a plurality of permanently assembled elements comprising an expanding member, an expansion member movable relative thereto and a tubular ram frictionally engaged upon the expanding member and constituting a permanently connected component part of the anchorage unit.

1,474,155. PIPE JOINT. WALTER KRAUSE, Friesack, Germany. Filed May 20, 1920. Serial No. 383,017. 9 Claims. (Cl. 285—110.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

9. In a pipe joint, the combination, with the pipes to be connected having contacting faces, of a supporting arm of open-notch formation on one of said pipes, a foot extending down from the same pipe, and a suspension arm secured to the other pipe and having a fulcrum member movable with said other pipe and movable into and out of the open end of the notch in the notched portion of said supporting arm, whereby the pipe having the suspension arm may be readily connected with the other pipe, or disconnected therefrom, without disconnecting the fulcrum member from the pipe carrying it.

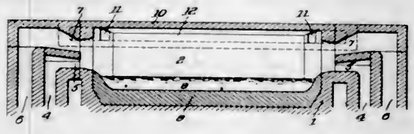


1,474,156. BOILER. JAMES M. MCCLELLON, Everett, Mass.; Harold B. McClellon administrator of said James M. McClellon, deceased. Filed Sept. 29, 1915, Serial No. 53,165. Renewed Apr. 11, 1923. 26 Claims. (Cl. 122—94.)



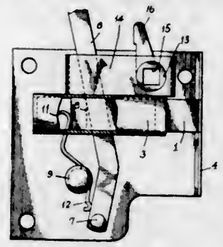
1. A boiler comprising, in combination, a barrel, crown drums side by side having end portions shaped to interfit and collectively to close a segment of the end of said barrel and a flue sheet having an edge fitting the lower parts of said end portions and closing the barrel end below such segment.

1,474,157. METALLURGICAL FURNACE. JOHN ROSCOE MILLWARD, Newark, N. J. Filed Nov. 5, 1920. Serial No. 421,814. 12 Claims. (Cl. 263—15.)



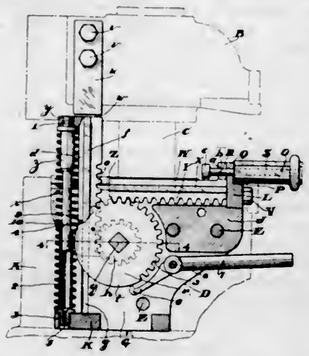
1. A furnace of the character described provided with a combustion chamber, means for introducing the combustible elements within the chamber to travel therethrough and means to introduce a volume of spent gases within the upper level of the chamber and in the direction of travel of the combustible elements to be impelled therewith across the chamber area, substantially as described.

1,474,158. DOORLATCH. RAYMOND G. MOORE, Bridgeport, Conn., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed May 18, 1922. Serial No. 561,832. 3 Claims. (Cl. 292—173.)



3. In a door latch, the combination of a supporting plate, a bolt slidably mounted thereon, and having a transverse surface, a hand operated member pivoted on said plate and adapted to be swung back in engagement with said surface to retract the bolt, a single spring, having an end portion pressing said bolt forwardly and pressing said surface against a point on said hand operated member to press it forwardly, when the bolt is in fully projected position, and having its other end portion pressing against a separated point on said hand operated member, to tend to swing said member forwardly, regardless of the pressure of said bolt surface against the same, and an abutment against which the hand operated member is normally thus pressed forwardly.

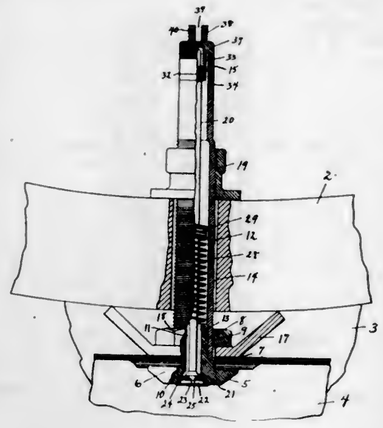
1,474,159. PIN PULLER. HOWARD W. MORROW, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Jan. 17, 1923. Serial No. 613,086. 20 Claims. (Cl. 29—86.1.)



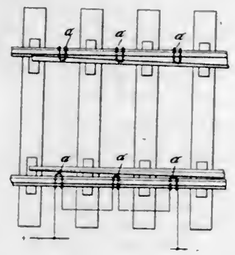
1. A pin puller adapted to be associated with a drill sharpening machine having a movable crosshead, said pin puller comprising a stationary member and movable pin engaging means, both adapted to be interposed between the end of a drill steel and the end of a pin inserted in said steel and means for effecting relative movement of said elements to cause the removal of the pin from said steel, said last mentioned means being actuated by movement of the movable crosshead of the sharpening machine, and means independent of the crosshead for retaining said crosshead actuated means in inoperative position.

1,474,160. TIRE VALVE. FRANCIS E. NUGENT, Philadelphia, Pa. Filed Dec. 22, 1920. Serial No. 432,380. 5 Claims. (Cl. 152—12.)

5. In a device of the character mentioned, a valve seat member having a conical valve seat recess, a conical valve and a flat washer between the conical recess and conical valve adapted to be compressed by the latter into the former with an uncompressed portion projecting beyond the valve and extending over the edge thereof and a portion of one face of the valve seat member.



1,474,161. PROTECTIVE HEATING SYSTEM FOR RAILWAY SWITCHES AND THE LIKE. EBEN RAY PACKER, New Rochelle, N. Y. Filed Dec. 28, 1920. Serial No. 433,591. 5 Claims. (Cl. 246—428.)

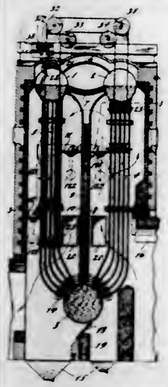


1. A protective heating system for railway switch points and the like having in combination with the rails and movable switch points, a plurality of separable, sealed electrical resistance heating units rigidly secured to the rail and connected in series arrangement to provide the resistance value required for the circuit to which they are connected, and said heating elements being supported in spaced relation to the rail and in close proximity to, but above the ballast substantially as described.

1,474,162. WATER-TUBE BOILER. ARTHUR D. PRATT, New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Oct. 16, 1919. Serial No. 330,946. 4 Claims. (Cl. 122—379.)

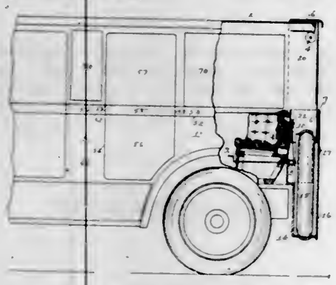
1. A boiler having part of its heating surface formed of vertically-extending straight tubes with laterally curved lower portions, and scrapers permanently mounted upon the tubes and arranged to scrape the surfaces of their straight portions, the curvature of the tubes being

such as to permit the soot thus scraped off to drop away between the lower parts of the tubes, and movable baffles having a portion thereof normally located in the path of



movement of the scrapers, and adapted to be contacted by the scrapers to be moved out of the path of the scrapers.

1,474,163. VEHICLE. JULES E. REBOURS, Grand Rapids, Mich. Filed Oct. 21, 1921. Serial No. 509,246. 4 Claims. (Cl. 296—98.)



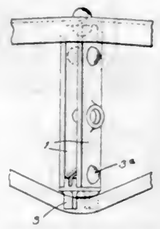
2. In a vehicle, a body having side walls; a frame detachably connected to the side walls and comprising a rear portion and a member adapted to be raised and lowered thereon and having a rotatably-mounted roller; a flexible top rollable on the roller; means carried by the body for supporting the top in extended position above the body.

1,474,164. PRESSURE REGULATOR. JOY S. REYNOLDS, San Francisco, Calif., assignor of one-half to Charles A. Balcom, San Francisco, Calif. Filed Apr. 26, 1921. Serial No. 464,693. 3 Claims. (Cl. 50—35.)



1. A pressure regulator comprising, inlet and discharge chambers, said chambers connected by a passage, a main valve adapted to control said passage, said valve mounted on and moved by a piston, an auxiliary valve adapted to control a channel from the discharge to a space behind said piston, a subsidiary valve mounted in the piston and adapted to control a waste from the discharge, said subsidiary valve adapted by its movement to operate said auxiliary valve.

1,474,165. REVERSIBLE STRUT FOR BRAKE BEAMS AND METHOD OF MAKING SAME. ALBIN P. RISSLER and WALTER G. HAMILTON, Chicago, Ill., assignors to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 7, 1921. Serial No. 513,430. 4 Claims. (Cl. 29—164.)



1. The method of forming reversible fulcrums or struts for brake beams which consists in doubling a strap or bar of metal upon itself, then shaping the closed end so that it may be rotatably received in a channel compression member, the cross-sectional area of the opening in the trunnion so formed being substantially as large as the cross-sectional area of the opening or space between the legs of the strut, and spacing the ends of the bent blank or legs of the strut by means of a member which forms a seat for the tension rod of the beam.

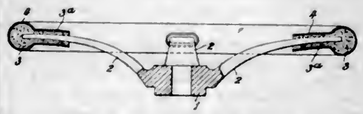
3. A reversible strut for brake beams formed of a strap or bar of metal bent upon itself and the ends of whose legs are spaced apart by a seat for the tension member, the closed end of the blank being shaped to form a hollow trunnion open at its inner end, and whose outer end wall is of substantially the same thickness as the legs of the strut.

1,474,166. WINDOW FOR AUTOMOBILE CURTAINS. MARSHAL G. ROBERTS, Detroit, Mich. Filed Jan. 12, 1920. Serial No. 350,995. 3 Claims. (Cl. 296—145.)



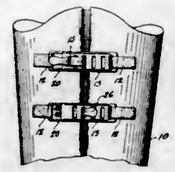
1. The combination with a curtain having a window opening of a window frame comprising a frame member individually secured to the curtain at the opening and having a window pane engaging portion bent back upon the curtain, a second frame member having an oppositely disposed window pane engaging portion and provided with a circumferential flange adapted to encircle the window pane engaging portion of the first frame member and engage thereover and be removably secured in encircling relationship therearound.

1,474,167. STEERING WHEEL AND PROCESS OF FORMING THE SAME. GEORGE DAUBNEY ROSE, Manchester, England. Filed Mar. 3, 1921. Serial No. 449,456. 3 Claims. (Cl. 74—33.)



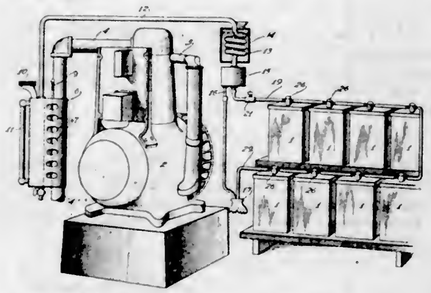
1. A steering wheel, comprising a metallic spider having radially extending spokes, a molded rim formed of a mixture of coir fibre and an adhesive material secured to said spokes under pressure and semi-vulcanized, the fibre being so disposed along each of said spokes as to form sockets for the ends of the spokes, and a covering of vulcanite vulcanized on said rim.

1,474,168. SHOE CLASP. THEODORE RUSSELL, Naugatuck, Conn., assignor to The John M. Russell Manufacturing Company, Naugatuck, Conn., a Corporation of Connecticut. Filed May 31, 1923. Serial No. 642,521. 7 Claims. (Cl. 24—69.)



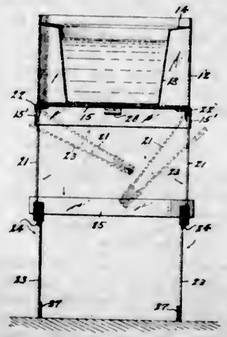
1. In a clasp, a wire frame having reentrant sides bent backwardly and then upon themselves to form a resilient tongue, and a lever hinged to said frame and provided with a tongue coacting with the frame tongue to hold the lever in closed position.

1,474,169. AUTOMATIC WATER FILLER FOR STORAGE BATTERIES. JACK D. SARTAKOFF, Forest Hills, and WILLIAM V. FORREST, Brooklyn, N. Y. Filed Nov. 5, 1920. Serial No. 421,875. 11 Claims. (Cl. 204—53.)



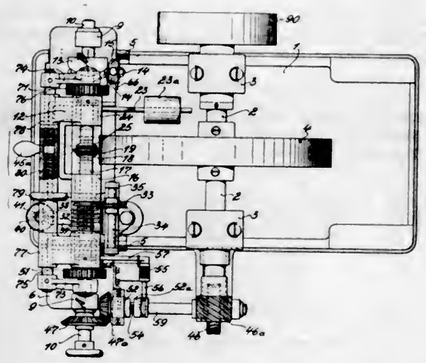
1. A device for feeding storage batteries embodying a casing, adapted to contain a pool of water, a float adapted to be positioned within a cell and to be controlled by the electrolyte level therein, and a capillary tube associated with the float and operable thereby to be brought into cooperative relation with the pool to feed water into the cell, when the electrolyte level in said cell recedes below its predetermined minimum, and to be lifted free from cooperative relation with the pool when the electrolyte level has been restored to normal.

1,474,170. COMBINED CARRIER CASE AND STAND. ABRAM SAM SCHECHTER, New York, N. Y. Filed Nov. 7, 1922. Serial No. 599,487. 7 Claims. (Cl. 91—66.)



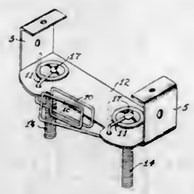
1. A combined carrier case and stand, comprising a main body at its upper end, a cover member, a hinge means pivotally connecting said cover member to said main body so as to permit the former to be swung back and underneath the bottom of the latter with its inner side downward, means for securing said cover member either in closed position or in the above-mentioned opened position, and foldable standard elements hinged within said cover member and adapted to be unfolded out of the latter in erected operative position when said cover member is in said opened position.

1,474,171. LENS-EDGING MACHINE. ROBERT SCHUMANN, Dusseldorf, Germany. Filed Mar. 3, 1921. Serial No. 449,279. 5 Claims. (Cl. 51—101.)



4. In a lens edging machine of the character set forth, in combination with a rotatable reciprocating work spindle, a series of pattern discs on said work spindle, a contact roller presenting a grooved circumference adapted to be selectively brought into cooperative engagement with any one of said pattern discs and to partake of the reciprocation thereof, and screw-influenced lever means for retaining said grooved roller and the selected pattern disc in operative contact.

1,474,172. ELECTRIC MEASURING INSTRUMENT. WALTER M. SCOTT, Cleveland, Ohio. Filed Dec. 10, 1919. Serial No. 343,839. 9 Claims. (Cl. 171—95.)

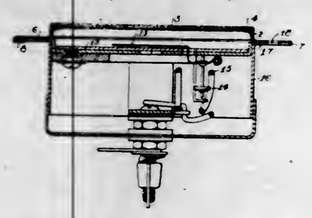


3. In an ammeter, in combination, a plate of insulating material having at each end an apertured ear, a current coil having a pair of spaced legs inserted in the apertures whereby the coil is supported, and current leads connected to said legs independently of all supporting devices.

1,474,173. CRYSTAL MOUNTING. WALTER M. SCOTT, Cleveland, Ohio. Filed Dec. 10, 1919. Serial No. 343,840. 4 Claims. (Cl. 220—82.)

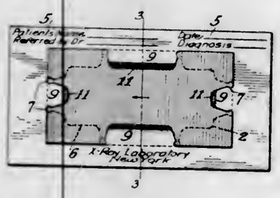
1. In a device of the character described, in combination, an outer ring having a cylindrical recess terminated by an inward shoulder, a transparent plate in said recess and positioned by said shoulder, and an endless elastic

metal inner ring of a cross section slightly more than rectangular, said inner ring having the extremities of its



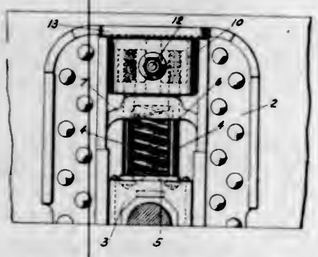
side wall tightly wedged in said recess and having an unbroken continuous inturned flange pressed against the opposite side of said plate from said shoulder.

1,474,174. X-RAY FILM HOLDER. AARON SEGALL, New York, N. Y. Filed Mar. 29, 1921. Serial No. 456,744. 2 Claims. (Cl. 40—158.)



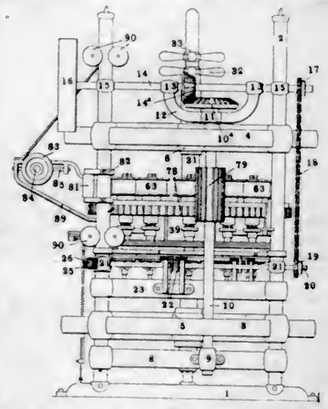
1. An X-ray film holder, comprising a body sheet having an unobstructed through sight-opening and provided with lips located within the area of said body sheet outside the area of the sight-opening and at points related to the top and bottom and side edges of said opening, said lips being formed by slits extending from the edge of the sight-opening, and located in the portion of the body sheet which surrounds the area of said opening, whereby the film is sustained upon the base formed by the portion of the body sheet which surrounds the sight-opening and is retained by the lips overlying the sustained edge of the film beyond the edge of the opening.

1,474,175. LOCOMOTIVE. WILLIAM W. SLOANE, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 17, 1921. Serial No. 501,340. 5 Claims. (Cl. 105—81.)



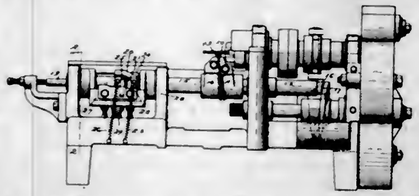
1. In combination with a locomotive frame having guiding means therefor, an axle box, spring suspension means interposed between said frame and said axle box affording relative vertical movement within said guiding means therebetween, and a friction device independent of said guiding means coacting between said frame and axle box.

1,474,176. CAN-SEALING MACHINE. CHESLEY T. SMALL, St. Louis, Mo., assignor to First National Bank in St. Louis, St. Louis, Mo. Filed Oct. 17, 1918. Serial No. 258,587. 30 Claims. (Cl. 113—23.)



1. In a can sealing machine, the combination with a continuously movable member adapted to carry cans, of means for rotating the cans, and a member reciprocating in the direction of travel of the cans and carrying a seaming roll for operating on said cans.

1,474,177. WOOD-SCREW MACHINE. HENRY L. SMITH, Waterbury, Conn., assignor to The E. J. Manville Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed Jan. 3, 1922. Serial No. 526,493. 18 Claims. (Cl. 10—101.)

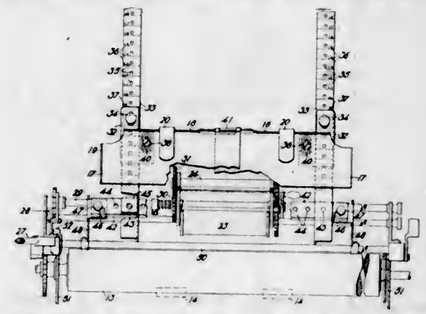


9. A screw machine having a plurality of threading tools arranged side by side fractions of full pitch apart on the same side of the blank to be threaded, a common feed cam for feeding both tools longitudinally along and beyond the point of the blank, a common spring for returning both tools together, a common cut cam for determining the depth of the cut of the tools, and a common profile cam controlled by the cut cam for moving the tools toward and from the blank, said profile cam being so shaped that the following tool does not begin to cut until it has reached the locality with relation to the point of the blank at which the advance tool began to cut.

1,474,178. TYPEWRITING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 31, 1920. Serial No. 355,334. 24 Claims. (Cl. 197—127.)

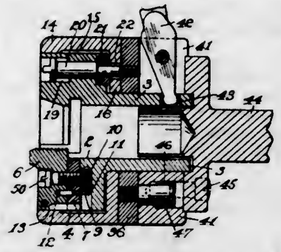
1. In a typewriting machine, the combination with a platen, of a sheet-gaging device comprising a leading-edge gage to position a work-sheet relatively to said platen, a support on which the sheet-gaging device is adjustable, means for mechanically determining line-space positions of the gaging device on the support and for positively retaining the device in such positions

against accidental misplacement, comprising holes spaced apart at equal single line-space distances and extending in rows away from the printing line, and screws carried



by and movable with said gage, which may be fitted closely into any of said holes with reference to which the gaging device has been properly positioned.

1,474,179. AUTOMATIC THREADING DIE. OSCAR A. SMITH, East Cleveland, and BENJAMIN RINDFLEISCH, Cleveland, Ohio, assignors to National Acme Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 17, 1922. Serial No. 529,897. 21 Claims. (Cl. 10—95.)



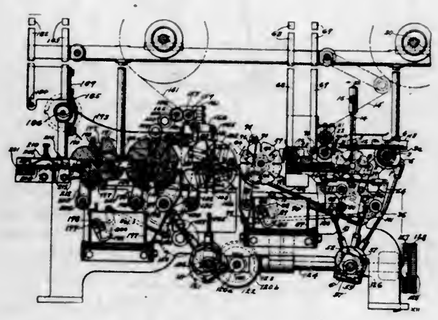
1. A threading die comprising a body member, a plurality of shiftable chasers carried by said member, and a sliding housing member axially slidable for controlling said chasers, said die having means for detachably connecting a stationary or rotary operating means in operative relation to said housing.

1,474,180. ELECTRIC MOTOR SWITCH. MILTON H. SPIELMAN and ALBERT R. GOLDRICK, Cleveland, Ohio, assignors to The Domestic Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 5, 1920. Serial No. 401,553. 13 Claims. (Cl. 200—80.)



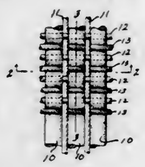
1. A centrifugal switch comprising stationary concentric terminal cylinders, the outer cylinder having an inwardly extending flange and the inner cylinder having an outwardly extending flange, an insulating member secured to the flanges of said cylinders, electrically connected, rotatable and radially movable brushes contacting with the outer surfaces of said cylinders, means for resiliently maintaining the brushes in engagement with the respective cylinders, and means for causing disengagement from said cylinders at predetermined speeds of rotation.

1,474,181. WRAPPING MACHINE. CLARENCE E. STEERE, Redondo Beach, Calif. Filed Mar. 8, 1923. Serial No. 623,640. 11 Claims. (Cl. 93—7.)



1. In a gum wrapping machine, means for assembling wrapped pieces of gum into a package, said means consisting of a rotatable wheel having a multiplicity of slots therein, said slots having one side fixed and one side yieldingly movable, and means for injecting the wrapped pieces of gum one by one between said fixed side and said yielding side of said slot.

1,474,182. PRINTED TAPESTRY. BERTRAM A. STROOCK, Newburgh, N. Y. Filed Jan. 2, 1923. Serial No. 610,326. 5 Claims. (Cl. 28—1.)

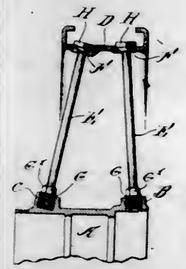


1. A fabric having the appearance of hand-woven tapestry or needle point, comprising interwoven fine, hard-twisted warp strands and alternate fine, hard-twisted and heavy, loose-twisted filling strands, with the heavy filling strands divided into squares by the warp strands and with the heavy strands projecting above the warp strands between each pair thereof on the same side of the fabric, said fabric having a design printed on the projecting portions of the heavy filling strands with the lines of the design following approximately the boundaries of said squares.

1,474,183. METAL WHEEL. JAMES H. WAGENHORST, Akron, Ohio. Filed Dec. 26, 1918. Serial No. 268,243. 3 Claims. (Cl. 301—56.)

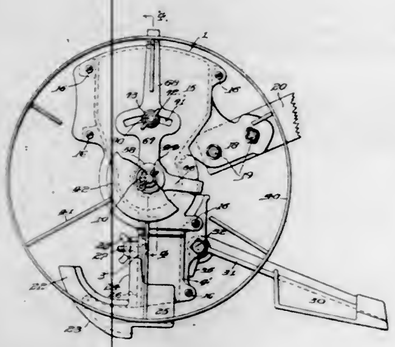
1. A metal wheel comprising a hub, a channeled fixed rim and a plurality of spokes, said hub having a plurality of threaded sockets, the inner ends of said spokes being threaded and engaging said hub sockets, the outer

ends of the spokes being headed and adapted to engage the base of said fixed rim, said spokes being inclined with



reference to the central tread plane of the wheel, said spoke heads and base of fixed rim being shaped to contact and compensate for the inclination of said spokes.

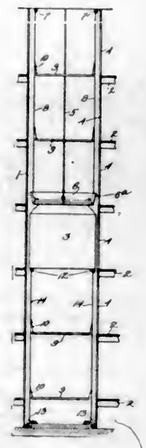
1,474,184. SEED DRILL. WILLIAM C. WARREN, Philadelphia, Pa., assignor to S. L. Allen & Co., Inc., a Corporation of Pennsylvania. Filed Jan. 30, 1922. Serial No. 532,570. 5 Claims. (Cl. 221—135.)



1. In an implement of the class described, the combination of a hopper, an agitator casing having inclined walls disposed within the hopper and closed at its larger end, a rotatable agitator within the hopper and having spaced teeth cooperative with but spaced from the wall of the casing to sweep seed toward the small end thereof when the agitator is rotated, and means for rotating the agitator when the implement is propelled over the ground.

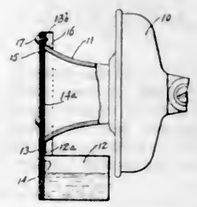
1,474,185. SAFETY DEVICE FOR ELEVATOR WELLS. CHARLES D. WOOD and EDWARD R. DE LONG, Boston, Mass. Filed Mar. 6, 1922. Serial No. 541,578. 3 Claims. (Cl. 187—66.)

3. An elevator safety device, embracing in combination a series of flexible suspension chains suspended in the elevator well each being connected with the car at one end, a series of safety platforms and a series of short suspension chains connecting the corner portion of said platform with the main suspension chains inwardly of the main suspension chains, whereby the weight of said suspension chains, when the platforms are being nested



upon each other, tends to draw inwardly the main suspension chains and cause them to coil above the respective platforms.

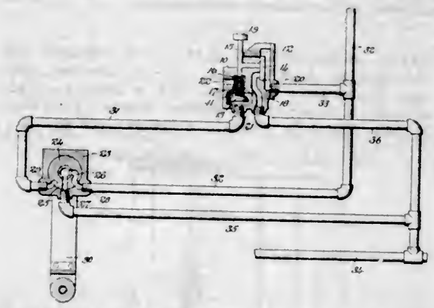
1,474,186. SANITARY ATTACHMENT FOR TELEPHONE TRANSMITTERS AND THE LIKE. CHARLES P. ABBOTT, Allston, Mass. Filed June 19, 1922. Serial No. 569,231. 2 Claims. (Cl. 179—185.)



1. The combination with a telephone transmitter mouthpiece, of a sterilizing device equipped with a clamping ring portion adapted to be secured to the front of the mouthpiece with a reservoir for disinfectant borne in depending relation by said ring portion and extending backward under the mouthpiece, and a wick extending from said reservoir upward across the front of the mouthpiece and held in place by said clamping ring portion.

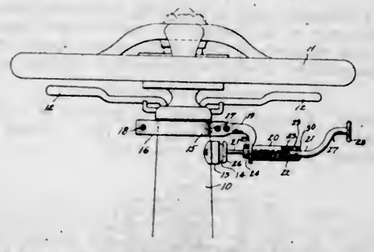
1,474,187. MANUALLY-OPERABLE VALVE FOR AUTOMATIC TRAIN-CONTROL APPARATUS. DAVID J. BISSELL, Jr., Spokane, Wash., assignor to Otis Automatic Train Control Incorporated, Spokane, Wash., a Corporation of Washington. Filed May 1, 1923. Serial No. 635,899. 4 Claims. (Cl. 303—18.)

1. In automatic train control apparatus, the combination with the train pipe and the supply pipe of an ordinary air brake system, of means automatically operable at predetermined times to cut off the supply to and vent said train pipe, and a valve device manually operable and effective following operation of said automatic means,



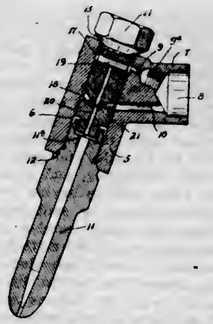
to prevent venting of the train pipe through said automatic means and to simultaneously place the supply pipe in communication with the train pipe.

1,474,188. HORN-OPERATING MECHANISM. DENIEL CAIRELLI, Shelton, Conn. Filed Jan. 24, 1922. Serial No. 531,411. 4 Claims. (Cl. 74—89.)



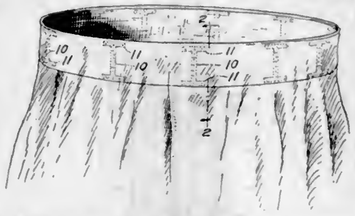
1. A device for controlling an automobile horn operated by means of a button on the side of the steering column, comprising a support adapted to be clamped to the column, a rod mounted to slide in this support and adapted to contact at one end with the button and at the other end to extend adjacent the rim of the steering wheel.

1,474,189. BLOWPIPE. LORN CAMPBELL, Jr., Minneapolis, Minn., assignor to United States Welding Company, Minneapolis, Minn., a Corporation of Minnesota. Filed May 3, 1920. Serial No. 378,358. 7 Claims. (Cl. 158—27.4.)



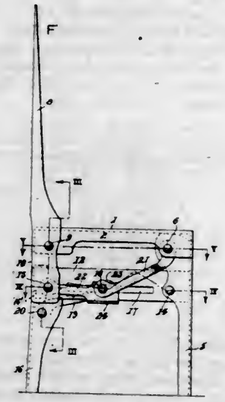
1. A blowpipe comprising a head and having a gas mixer, a discharge nozzle tip secured therein, each being removable without disturbing any other part of the blowpipe.

1,474,190. STIFFENER FOR SKIRT BANDS AND THE LIKE. LENA E. FOX, Satanta, Kans. Filed Oct. 6, 1922. Serial No. 592,801. 2 Claims. (Cl. 2—142.)



1. A stiffener comprising strips, each composed of a shank and T-head, the shanks of both being provided with uniformly spaced perforations and being adapted to be moved longitudinally with the shanks overlapping to produce the desired combined length with the T-heads at the opposite ends of the combined structure and certain of said perforations registering for the reception of stitches for joining the strips permanently to a garment at their combined lengths.

1,474,191. COLLAPSIBLE CHAIR. JOHN A. FREEZE, Sayreville, N. J. Filed Sept. 21, 1922. Serial No. 589,575. 6 Claims. (Cl. 155—148.)

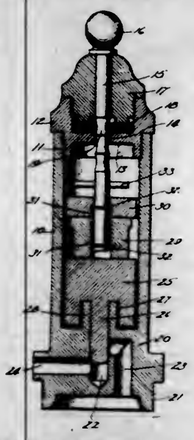


1. In a chair of the type described, a seat bottom, front legs hinged to the forward edge of the seat bottom, a chair back hinged to the rear edge of the seat bottom, downward extensions carried by the seat back, rear legs associated with the downward extensions, a subframe hinged to the front legs and associated with the back extensions, means connecting the forward legs to the rear legs to cause the same to move in directions toward the chair bottom when the chair is collapsed, and locking means associated with said back extensions for engaging a portion of the leg connecting means when the chair is in a set up position for preventing collapsing of the same.

1,474,192. RELIEF VALVE. FREDERICK A. GESSLER, La Grange, Ill., and ROBERT B. MITCHELL, Hillsdale, Mich., assignors to Electric Milker Corporation, Chicago, Ill., a Corporation of Delaware. Filed Apr. 2, 1921. Serial No. 458,122. 2 Claims. (Cl. 251—148.)

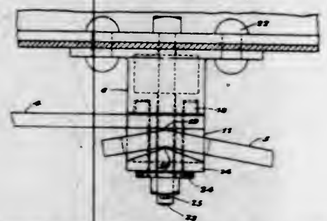
1. In a relief valve, the combination of a shell, a base to which the shell is attached, a relief passage extending through the base, a weighted valve controlling the relief passage, an adjusting rod extending vertically from a point above the main weight to the exterior of the casing, a supplemental weight surrounding the lower end of

the adjusting rod, and stops on the suppemental weight and rod respectively for engaging the weight to the rod



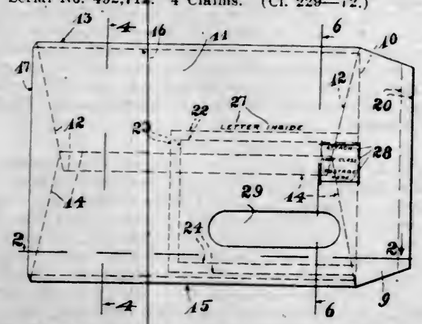
after the rod has been retracted to a given degree to raise and hold the supplemental weight out of contact with the weighted valve, substantially as described.

1,474,193. UNCOUPLING DEVICE FOR CAR COUPLERS. GARTH G. GILPIN, Riverside, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed May 19, 1922. Serial No. 562,099. 7 Claims. (Cl. 213—164.)



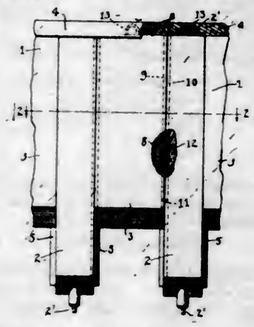
1. An uncoupling device for car couplers comprising a fulcrum having a journal, an operating lever formed with a rectangular extension perforated for said journal, and a pin lifting lever having a rectangular perforation to engage said rectangular extension.

1,474,194. COMBINATION ENVELOPE. GEORGE W. HALL, Alhambra, Calif., assignor to Coast Envelope Company, Los Angeles, Calif. Filed Aug. 16, 1921. Serial No. 492,712. 4 Claims. (Cl. 229—72.)



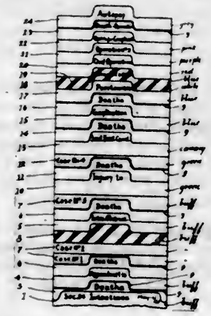
1. In an envelope, means for separately holding mail matter of different classes, means for closing the common receiving end over the whole inserted matter, and means for making matter of less than first class accessible after the closing of the common receiving end.

1,474,195. SHEET-PILING WALL AND METHOD OF INSTALLING SAME. LYMAN B. LANGWORTHY, Chicago, Ill., assignor to Chicago Title & Trust Co., Chicago, Ill., a Corporation of Illinois, trustee. Filed Mar. 2, 1920. Serial No. 362,882. 6 Claims. (Cl. 61—39.)



1. A composite wall of monolithic character, comprising a series of alternately arranged uncased concrete piles and relatively short concrete panels having interlocking relation to one another at their abutting edges.

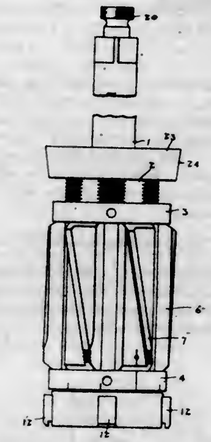
1,474,196. FILING SYSTEM. JOSEPHINE M. LEAHY, Houston, Tex. Filed Aug. 24, 1921. Serial No. 495,045. 4 Claims. (Cl. 129—16.5.)



1. A record keeping system for use in hospitals, said system being coordinated to a classified group of titles relating to diseases common to certain parts of the body, said system comprising a plurality of sections of record-holding cards, each section including record-bearing cards 7, and record-bearing cross index cards, said cross index cards being divided into groups, said groups being located in accordance with the progressive steps of the disease designated by its title, and with associated conditions subsequently developing, and being rendered distinguishable from other cards by having identifying marks thereon, the record carried by said cross index cards differentiating from the record carried by the cards 7, in that it relates only to subject matter covered by one of said titles, whereby unusual behavior and phenomena developed by the diseases represented by said titles may be readily collected from the various sections of cards at one hospital and be compared with cross index cards of other hospitals, for the purpose set forth.

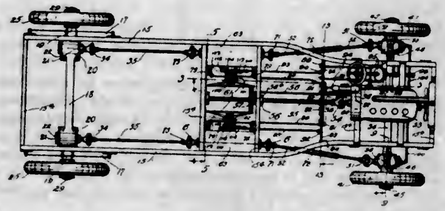
2. A record-keeping system for recording associated conditions of diseases and subsequent developments comprising a plurality of unitary packs of cards, each pack having a main guide card, the title thereon signifying that the pack contains information relating to diseases which commonly attack only a certain part of the body, each pack being divided into groups, and each group having sub-guide cards, including a leader sub-guide bearing the title of the subject matter recorded in the group, and a mortality card bearing the record of deaths caused by conditions forming part of said subject matter.

1,474,197. REAMING TOOL. THOMAS LENNARD, Toronto, Ontario, Canada. Filed July 23, 1921. Serial No. 487,084. 2 Claims. (Cl. 77—75.5.)



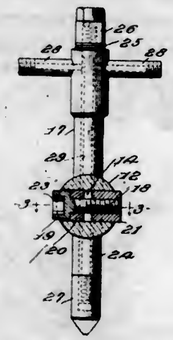
1. In a reamer, the combination with a block having longitudinal grooves and radially adjustable cutters arranged therein, of radial guides arranged at the inner end of said block, blocks slidable in said radial guides, a tubular stem rigidly secured in the reamer block, a stem extending through said tubular stem to the outer end thereof, and means connected to the inner end of said central stem for operating said slidable blocks.

1,474,198. FOUR-WHEELED TRUCK. SYVER LOE, Minneapolis, Minn. Filed Dec. 18, 1920. Serial No. 431,600. 7 Claims. (Cl. 180—18.)



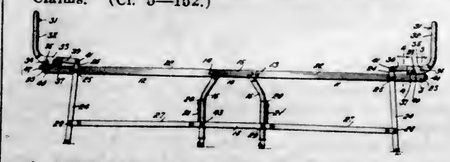
1. In a motor-propelled vehicle, the combination with an axle, of gear boxes pivotally connected to the ends of said axle and provided with outstanding sleeve-like axles, wheels journaled on said axles, axle shafts extended through said sleeve-like axles and connected to the wheel hubs at their outer ends, driving shafts journaled in said gear boxes and extending transversely of the axes of said axle shafts, and bevel gears located in said gear boxes and connecting said driving shafts to said axle shafts, said gear boxes, shafts and gears all partaking of the oscillatory movements of the wheels in the steering actions.

1,474,199. UNIVERSAL POINT AND CARRIER FOR WELDERS. FRED P. MCBERTY, Warren, Ohio. Filed June 30, 1921. Serial No. 481,569. 17 Claims. (Cl. 219—4.)



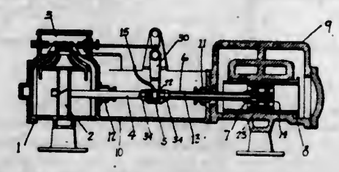
1. A supporting means for welder electrodes or the like comprising a carrier having means in each of its ends for supporting the electrode.

1,474,200. FOLDING COT. JUDSON L. MCKELLAR, Brooklyn, N. Y., assignor to Gasau-Thompson Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Dec. 16, 1922. Serial No. 607,272. 2 Claims. (Cl. 5—152.)



1. A folding cot or bed comprising a middle bed-section having rigid supporting legs, end bed-sections having pivoted legs and pivotally secured to the end portions of said middle section and adapted to be turned upwardly into vertical position and downwardly into horizontal position, links connecting said pivoted legs with said rigid legs and foldable with said pivoted legs, head and foot members of bell-crank type pivotally secured on the outer ends of said end bed-sections, and links pivotally connected with and connecting inwardly extending arms of said head and foot members and the upper ends of said pivoted legs above the pivots thereof and adapted to lie in substantial alignment with said inwardly extending arms for locking said head and foot members and the pivoted legs respectively connected with them in rigid relation to each other.

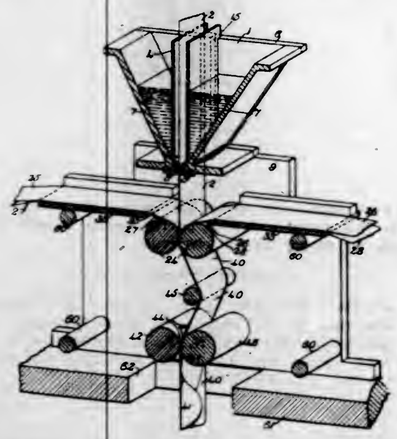
1,474,201. OIL-WELL SLUSH-PUMP PISTON AND PUMP-PISTON PACKING-ADJUSTING MECHANISM. WILLIAM FREDERICK MCMAHON, Long Beach, Calif. Filed Aug. 8, 1921. Serial No. 490,763. 9 Claims. (Cl. 74—109.)



1. In a pump, a tubular pump piston rod, a pliable hollow cylindrical piston packing, a piston formed of two cylindrical discs, each said cylindrical disc having a

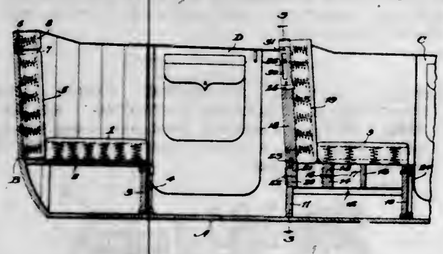
conical surface forming a conical frustum, means for adjusting the said piston packing, located within the said hollow tubular pump piston rod, and a ratchet mechanism adapted to operate said last named means.

1,474,202. MACHINE FOR MAKING STIFFENERS, STIFFENING MATERIAL, INSOLES, AND LIKE PARTS FOR BOOTS AND SHOES. DAVID BAIRD MACDONALD, Leicester, England. Filed Mar. 31, 1920. Serial No. 370,128. 15 Claims. (Cl. 154—37.)



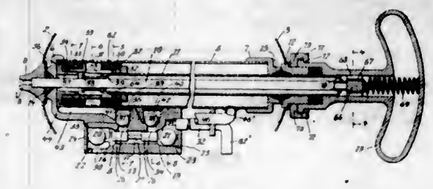
1. A machine for making stiffener articles or stiffening material of the kind herein referred to, comprising a trough to contain stiffening agent in bulk and in solution or moist condition, two shutters adjustable vertically in the trough to vary the space between their lower edges and the bottom of the trough for the purpose of regulating the flow of the stiffening agent to the strip material which passes between the shutters, and means to bring one or more strips of unloaded material into association with the loaded strip material.

1,474,203. AUTOMOBILE. JAMES NEIL MACDONALD and ROBIN ROY MACDONALD, Island Mountain, Calif. Continuation of application Serial No. 527,921, filed Jan. 9, 1922. This application filed Nov. 1, 1922. Serial No. 598,332. 10 Claims. (Cl. 155—7.)



1. The combination of an automobile body, a displaceable seat back, a pivoted latch mounted within the seat back and projecting at one upright edge thereof, a lever fulcrumed upon the top edge of the seat back, a link connection between the lever and the latch, and a keeper within the automobile body and detachably engageable by the latch to hold the seat back in its upright position.

1,474,204. FIRE EXTINGUISHER. PETER GRAHAM MACGREGOR, New York, N. Y., assignor to Pyrene Manufacturing Company, a Corporation of Delaware. Filed July 22, 1919. Serial No. 312,564. 7 Claims. (Cl. 299—98.)



1. A pump comprising a cylinder, a piston mounted therein and having a chamber provided with a valve seat, a discharge member extending through said chamber, a valve slidably mounted within said chamber upon said discharge member and adapted for engaging said seat, and a hollow piston rod connected to said piston and establishing communication between said chamber and said discharge member.

1,474,205. GAS MASK. ROSCOE P. MASE, Wilkinsburg, Pa., assignor to Mine Safety Appliance Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 11, 1921. Serial No. 507,083. 7 Claims. (Cl. 128—191.)



1. An air-purifying apparatus comprising an outer casing provided with an air inlet open to the atmosphere and an air outlet, an air-purifying canister within the casing provided with an air inlet and an air outlet communicating respectively with said casing inlet and outlet, and means in the casing for bringing the air that enters the casing into heat-exchanging relation with the purified air that leaves the canister.

1,474,206. REFILLABLE ELECTRIC FUSE. ROBERT E. MIDDAGH and CARL L. ANDERSON, McGill, Nev. Filed June 11, 1920. Serial No. 388,281. 6 Claims. (Cl. 200—132.)

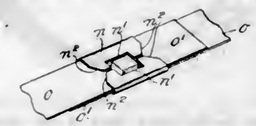
1. A refillable cartridge fuse having, in combination, a body portion, thimbles secured to the ends of the body and constructed for interlocking engagement with end caps, a fusible strip having at one end a terminal carrying a disk arranged to fit within the body and thimbles, having at its opposite end a disk of a size too large to enter

the body with interlocking means to cooperate with the thimble in preventing relative rotation of the body and



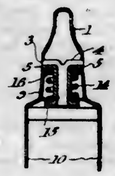
fusible link, and end caps for the body having means for cooperating with the thimbles to lock said caps in position.

1,474,207. APPARATUS FOR SECURING METALLIC BANDS AROUND PACKING CASES, BOXES, BALES, AND THE LIKE. ARTHUR CHARLES PAYNE and REGINALD EYRE, London, England. Filed Nov. 25, 1921. Serial No. 517,568. 4 Claims. (Cl. 24—23.)



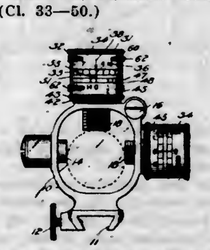
1. A strap fastening arrangement comprising a metal strap with overlapping ends, a seal plate for fastening said ends together, said plate folded around the overlapping ends of said strap, the abutting ends of said plate being deformed and arranged to meet substantially on the longitudinal centre line of said strap, said strap and seal plate being depressed from the opposite side to conform to the deformed ends of said plate.

1,474,208. CURTAIN FASTENER. HARRY I. PHILLIPS, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Sept. 27, 1922. Serial No. 590,897. 6 Claims. (Cl. 24—221.)



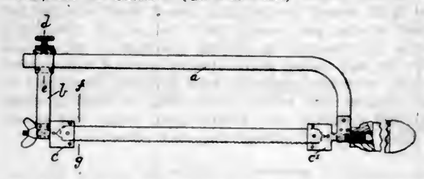
1. In a curtain fastener, a turn-button or head adapted for use with and to turn upon a base and comprising a finger-piece provided with recesses, and a flanged connecting member constructed with lateral extensions to engage the recesses in the finger-piece, said finger-piece provided with means for engaging the flanged connecting member to rigidly connect the two.

1,474,209. GAUGE. ROBERT V. R. REYNOLDS, Washington, D. C. Filed Oct. 14, 1921. Serial No. 507,693. 15 Claims. (Cl. 33—50.)



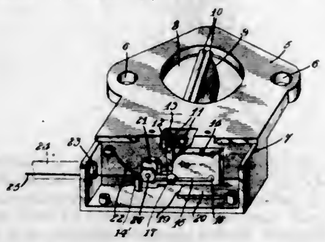
1. In a device of the character described, a barrel, a screw therein and a nut thereon, a scale carried by said screw, and a cooperating scale carried by said nut, each of said scales being adjustably mounted.

1,474,210. HACK SAW. WILLIAM HENRY ROYLE, Tipton, England. Filed Sept. 5, 1922. Serial No. 586,847. 1 Claim. (Cl. 145—34.)



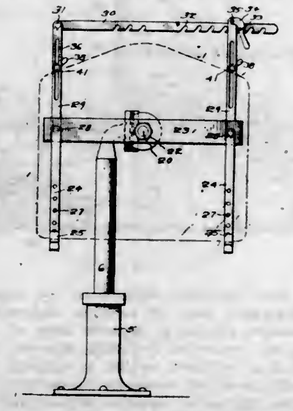
In a hack saw the combination of a steel frame having an adjustable arm moving laterally thereon, a milled head screw securing the adjustable arm to the frame, saw blade holders comprising two plates with a center plate forming a socket, said socket provided with a tapered recess for easy insertion of a broken saw blade substantially as described.

1,474,211. AUTO LOCK. HENRY W. SCHOFF, River Forest, Ill. Filed Dec. 30, 1922. Serial No. 609,986. 3 Claims. (Cl. 251—6.)



1. In a device for cutting off the passage of fluid through an intake manifold, a plate having an opening and secured at one end of the intake manifold, hinged valve members supported by the plate and adapted to close one end of the intake manifold, shafts for supporting the valve members, pinions carried by the shafts, an arm carried by one shaft, a sliding block cooperating with the arm for moving the arm and shafts to close the valve members, means for moving the block, and means for locking the block against movement.

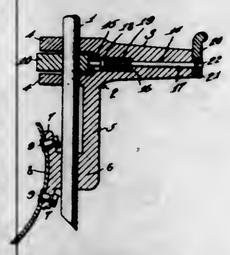
1,474,212. RADIATOR-SUPPORTING STAND. RICHARD J. STATHAM, Glendive, Mont. Filed Feb. 25, 1922. Serial No. 539,268. 5 Claims. (Cl. 29—89.)



1. In the combination with a supporting stand, a horizontal shaft at the upper end of said supporting stand, a second horizontal shaft at right angles to the

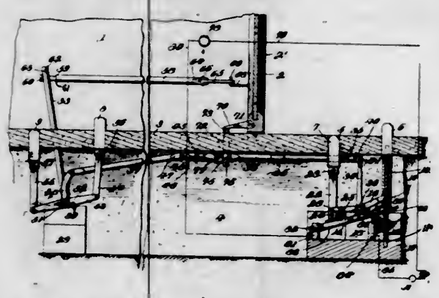
first-named horizontal shaft and swinging about said first named horizontal shaft, means for frictionally binding the last named shaft in varying positions of adjustment with respect to the first named shaft, a cross bar carried by the last named shaft, means for frictionally binding the cross-bar in varying positions of adjustment about the last named shaft, stirrup carrying bars carried by said cross-bar, clamping bars pivotally connected to said cross-bar and means for exerting a drawing action upon said clamping bars toward each other, said clamping bars carrying radiator engaging elements.

1,474,213. SHOVEL. JOHN W. SVALGAARD, Madelia, Minn. Filed Feb. 25, 1922. Serial No. 539,214. 2 Claims. (Cl. 97—198.)



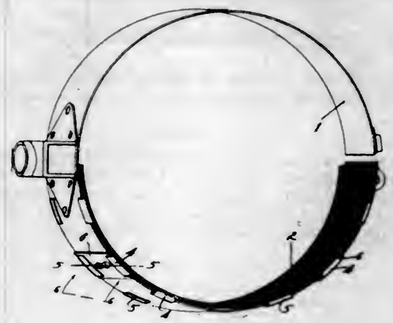
1. In a device of the class described, a standard, a bracket having a flange receiving the standard and mounted to swing on the standard circumferentially thereof, a soil engaging element carried by said bracket, a keeper disposed on the standard adjacent said flange, said keeper being adjustable longitudinally and circumferentially of the standard, means for holding the keeper in adjusted position on the standard, and a latch carried by the bracket and coacting with the keeper.

1,474,214. AUTOMATIC DOOR OPERATING AND CONTROLLING MEANS. FRED L. SWARTZ, Toledo, Ohio, assignor of one-half to George Montville, Toledo, Ohio; Emma Montville administratrix of said George Montville, deceased. Filed Mar. 19, 1921. Serial No. 453,673. 6 Claims. (Cl. 268—9.)



1. In a door operating mechanism, the combination with the swinging door, of separate depressible door opening members located at opposite sides of the door and operatively connected therewith, separate depressible door closing members located at opposite sides of the door, and operatively connected therewith for closing the door, the depressible members without the door in staggered relation, and the depressible members on the inner side of the door located one directly in front of the other, for the purpose described.

1,474,215. DEMOUNTABLE BRAKE LINING. HAROLD VANDERHOOF and WILLIAM GILLIG, San Francisco, Calif. Filed Feb. 5, 1923. Serial No. 617,076. 5 Claims. (Cl. 188—249.)

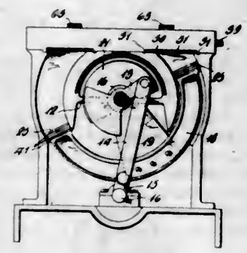


3. A vehicle brake lining band of the class described, comprising in combination a brake band, a detachable metal strip with ears projecting from the edges thereof, a brake lining fixed to said metal strip, a clip on the outside surface of said brake band adapted to be held in place by the said ears when bent over, a hole extending through said clip, said brake band, and said metal strip, a pin in said hole and tabs on said clip adapted to be bent over said pin to hold it in place.

1,474,216. PRODUCTION OF ALCOHOL. JOSEPH VAN RUYMBEKE, Marseille, France. Filed Apr. 14, 1922. Serial No. 552,629. 7 Claims. (Cl. 195—15.)

1. A process for the production of alcohol of very high strength consisting in bringing alcohol vapors into contact with a solution comprising glycerine and an anhydrous salt of a hygroscopic nature in a rectifying column, the said solution acting as a dehydrating agent.

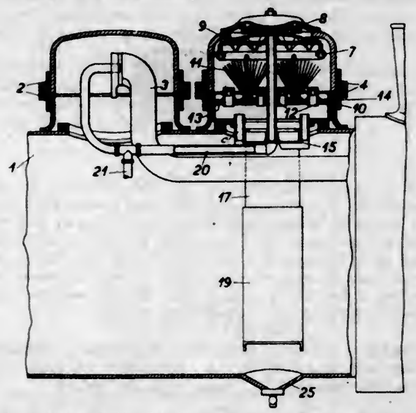
1,474,217. INTERNAL-COMBUSTION ENGINE. GEORGE WAGENLANDER, Washington, D. C. Filed Sept. 21, 1922. Serial No. 589,581. 8 Claims. (Cl. 123—18.)



1. In an engine, the combination with a cylinder block having a pair of opposite segmental cylinders therein, pistons reciprocating in said cylinders respectively, a rocker to which bolt pistons are connected, a crank shaft operatively connected to the rocker, a detachable cylinder head fitting flatly on the top of the block, having inlet and exhaust ports therein, and slide valves in said head controlling said ports.

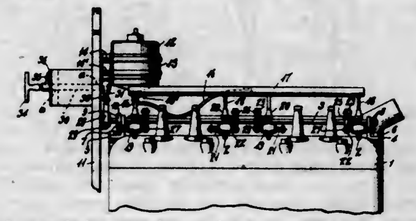
2. In an engine, the combination set forth in claim 1, the rocker having a counterbalance on the side of its center opposite the piston connection.

1,474,218. WATER-PURIFYING SYSTEM FOR LOCOMOTIVES. FRITZ WAGNER, Berlin-Lichterfelde, Germany. Filed Feb. 17, 1921. Serial No. 445,857. 22 Claims. (Cl. 122—443.)



1. A steam boiler having two steam domes one having the main steam outlet therefrom, means for delivering feed water to the upper part of the other dome, and means for withdrawing steam from the upper part of the last mentioned dome to induce an upflow of steam in the last mentioned dome in direct countercurrent contact with the descending feed water.

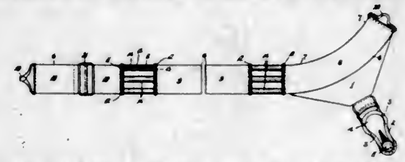
1,474,219. PRIMING ATTACHMENT FOR INTERNAL-COMBUSTION ENGINES. RUFUS M. WATSON, Norfolk, Va. Filed Apr. 10, 1922. Serial No. 551,145. 3 Claims. (Cl. 123—187.5.)



1. A priming attachment for automobile engines and the like, comprising in combination: a series of cylinders having priming inlets, a main fuel reservoir, an auxiliary fuel reservoir manifold communicating therewith, fuel connections from said manifold to the priming inlets of said cylinders, pet cock valves having longitudinal axes located intermediate said fuel connections, transversely swinging arms mounted on said pet cock valves, a rock shaft mounted longitudinally of said series of cylinders, transversely swinging arms fixed to said rock shaft, a plurality of links pivotally connected to the transversely swinging arms of said pet cock valves and pivotally connected at their other ends to the swinging arms of said rock shaft, and manually operated means located on the dash and operatively connected to said rock shaft whereby said valves are simultaneously actuated to admit a quantity of fuel to the respective cylinders or cut off said fuel therefrom.

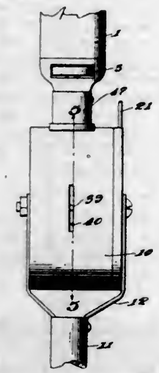
1,474,220. GARTER OR SOCK SUSPENDER. FRITZ WEINBERG, Sannieshof, Transvaal, South Africa. Filed Apr. 26, 1921. Serial No. 464,506. 2 Claims. (Cl. 241—6.)

1. A garter or sock suspender comprising a pad to which the sock is adapted to be detachably secured, a sectional band made of soft non-extendible material, which is adapted to encircle the leg, means for detachably connecting the ends of said band, means for adjusting the length of said band, and a plurality of resilient devices placed intermediate the sections of said band, each



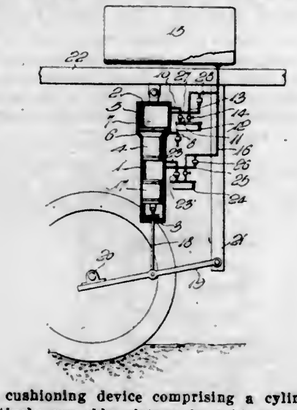
of said devices including a plurality of helical metal springs, loops for attaching the ends of said springs to the ends of the sections of the band, and a telescopic casing surrounding said springs, as set forth.

1,474,221. BULB HOLDER. GROVER C. ALLEN, Detroit, Mich. Filed Apr. 18, 1922. Serial No. 555,531. 8 Claims. (Cl. 294—21.)



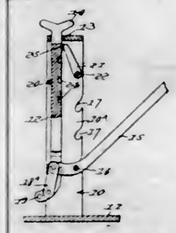
1. In a lamp bulb holder, the combination with a feed screw, of means for operating said feed screw, and releasable means for controlling the direction of movement of said feed screw.

1,474,222. PNEUMATIC SUPPORT FOR VEHICLE BODIES. JOHN MCKINLEY AKERS and WALTER CARL AKERS, Matewan, W. Va., assignors of one-third to L. T. Compton, Matewan, W. Va. Filed Mar. 8, 1923. Serial No. 623,791. 5 Claims. (Cl. 188—94.)



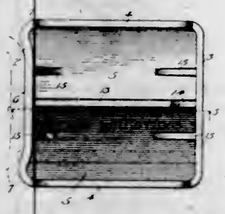
1. A cushioning device comprising a cylinder, a pair of relatively movable pistons in said cylinder movable one by means of the other, and check valved pressure inlets and outlets for said cylinder to control the movement of said pistons.

1,474,223. AUTO JACK. ROY E. ANKERMAN, Wapakoneta, Ohio. Filed Apr. 9, 1921. Serial No. 459,861. 1 Claim. (Cl. 254—118.)



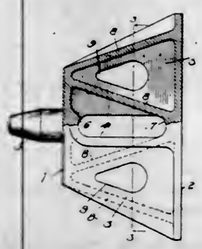
A jack having a standard consisting of laterally spaced side members provided in their front edges with series of transversely registering seats, a plunger bar guided for vertical sliding movement at the upper end of the standard, a lever having a transverse fulcrum pin for selective engagement with said seats and having a permanent link connection at its inner end with the lower end of the plunger bar, and a dog for locking the plunger bar in its step by step upward movement, the plunger bar being provided at its lower end with a transverse guiding pin for traversing the rear edges of the side members of the standard and a guide pin arranged in spanning relation with said side members to limit the rearward swinging movement of said plunger bar.

1,474,224. DRAFT RIGGING. DONALD S. BARROWS, Rochester, N. Y., assignor to The T. H. Symington Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 30, 1921. Serial No. 525,875. 8 Claims. (Cl. 213—56.)



1. A back stop casting for railway draft rigging comprising a pair of transversely extending walls connected by a web of inverted V-shape and having side walls united to the end walls and to said connecting web.

1,474,225. DRAFT-GEAR FOLLOWER BLOCK. DONALD S. BARROWS, Rochester, N. Y., assignor to The T. H. Symington Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 2, 1922. Serial No. 533,703. 11 Claims. (Cl. 213—49.)



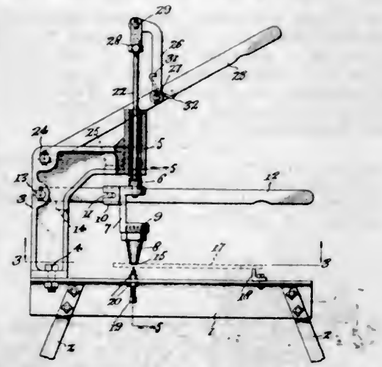
2. A draft gear follower block comprising end walls, side walls uniting said end walls, and a plurality of webs uniting said end walls and forming oblique angles therewith, some of said webs being parallel.

1,474,226. THEATER AND LIKE SEAT, CHAIR, AND THE LIKE. WALTER GEORGE BASS, London, England. Filed Mar. 14, 1923. Serial No. 624,940. 5 Claims. (Cl. 155—184.)



1. A chair seat, arm, or the like, including a unit comprising an upholstered element and a base plate having means to which said element is detachably secured, and a lower base plate removably secured to said unit base plate through said means, said unit base plate and lower base plate being each offset to form a recess extending inwardly from the edge thereof, said recesses together forming a pivot receiving opening.

1,474,227. CORK-INSERTING MACHINE. CHARLES BOISSET, New Orleans, La. Filed Mar. 24, 1922. Serial No. 546,460. 7 Claims. (Cl. 29—86.1.)



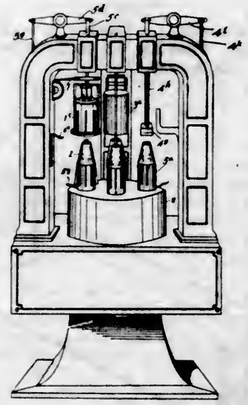
1. A cork inserting machine for perforated clutch disks and the like comprising a table, an adjustable support on the table for a perforated clutch disk adapted to permit sliding movement of the disk, means movable toward and from the table for centering the perforations of the disk on the support, said means adapted to receive a cork insert, and a plunger moving through said means for forcing the cork insert into a perforation in the disk, substantially as described.

1,474,228. SANITARY NONREFILLING PAPER BOTTLE. ARON BRAUNSTEIN, San Antonio, Tex. Filed May 12, 1922. Serial No. 560,477. 4 Claims. (Cl. 229—4.5.)



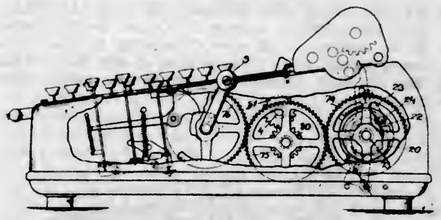
4. A sanitary receptacle comprising a tubular member having a lower cylindrical portion and an upper substantially frustro-conical portion, the frustro-conical portion having a smooth exterior surface and being of substantially uniform thickness throughout, the cylindrical portion having integral longitudinally extending folded flaps of substantially V-shape with the points of the V's arranged adjacent to the base of the frustro-conical portion, and means closing the ends of the tubular member.

1,474,229. AUTOMATIC PAPER-CONTAINER-MAKING MACHINE. ARON BRAUNSTEIN, San Antonio, Tex. Filed Aug. 9, 1922. Serial No. 580,695. 8 Claims. (Cl. 93—60.)



1. A machine for making paper containers including a core member and a shell member, said core member having a frustoconical shaped portion and a cylindrical portion, arms carried by the cylindrical portion and adapted to be projected outwardly, said shell member being provided with slots adapted to receive said arms when the latter are in projected position, and means for moving one of said members relatively to the other member in order to arrange the core within the shell.

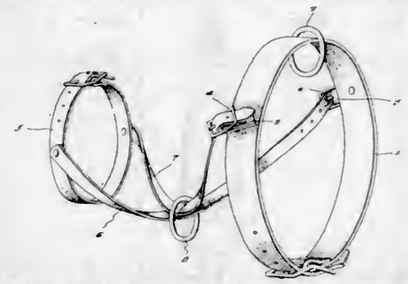
1,474,230. CALCULATING MACHINE. EDWIN F. BRITTEN, Jr., Maplewood, N. J., assignor to Monroe Calculating Machine Company, New York, N. Y., a Corporation of New York. Filed Nov. 23, 1920. Serial No. 426,043. 4 Claims. (Cl. 235—79.)



1. In a calculating machine, selecting mechanism including a shaft, a plurality of driving elements mounted thereon and a series of digital keys for each element, carry mechanism including a shaft and a plurality of driving elements mounted thereon, numeral wheels operable by the selecting elements and carry elements, an operating device rotatable in either of two directions, and means whereby any operative movement of said device in either direction is transmitted at a constant speed ratio to the selecting elements and to the carry elements.

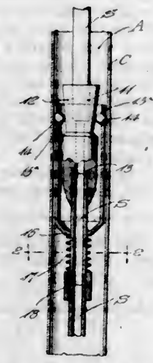
1,474,231. COMBINED COLLAR AND MUZZLE. JOHN W. BROWN, Fort Scott, Kans. Filed Feb. 28, 1923. Serial No. 621,853. 1 Claim. (Cl. 119—130.)

Two straps, one of a greater length than the other and both rounded upon themselves to provide respectively a collar and a muzzle, means adjustably connecting the ends of the said collar and said muzzle, a ring on the collar for a lead strap, crossed straps fixedly secured



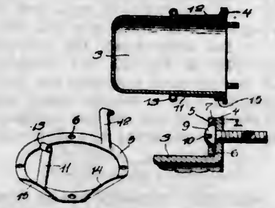
to the sides of the muzzle and adjustably connected with the sides of the collar and a ring for a lead strap, slidably arranged on the crossed straps.

1,474,232. WELL FISHING TOOL. CHARLES A. BRUST, Jr., El Dorado, Ark. Filed Nov. 6, 1922. Serial No. 599,357. 3 Claims. (Cl. 294—96.)



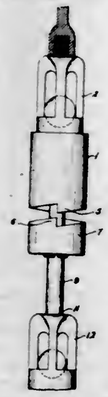
1. A well fishing tool comprising a longitudinally bored body formed at one end with a conical portion, piping threaded into said bore, said piping constituting a guide, a coupling associated with the piping, said coupling constituting a shoulder, a carrier slidable on the piping and surrounding said body, said carrier being formed with openings at one end, friction balls disposed in said openings and adapted to contact said conical portion of the body, and a spring surrounding a portion of the piping between the carrier and coupling for exerting pressure on the carrier to insure an effective grip of the balls on the part to be removed from the well.

1,474,233. SCREW-HOLDING DEVICE FOR AUTOMOBILE DRIVE CASINGS. EUGENE COLBERT BRYAN and PETER JOHN SONES, Haines City, Fla. Filed June 3, 1922. Serial No. 565,653. 4 Claims. (Cl. 29—89.)



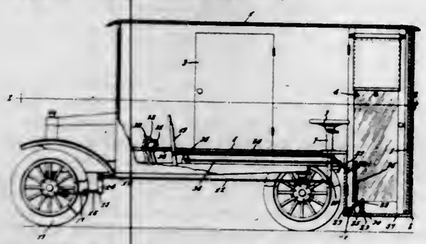
1. A screw holder comprising a ring having openings to receive the heads of the screws and provided with means to embrace a part to be attached by the screws, substantially as described.

1,474,234. VALVE PULLER. SAMUEL S. BURMAN, Tiffin, Ohio. Filed Aug. 31, 1922. Serial No. 585,566. 3 Claims. (Cl. 294—86.)



1. A valve pulling device comprising a stud provided with a thread, a member having an opening which receives the stud, said member being provided at the lower portion of the opening with a thread adapted to engage the thread upon the stud, the surface of the said opening above the thread of said member being of a vertical length greater than the vertical length of the thread on the stud, said member having teeth located at its upper end, a sectional member provided at its lower end with teeth adapted to engage teeth of the first mentioned member, the last mentioned member having a thread adapted to engage the thread upon the stud.

1,474,235. BODY FOR FORD CHASSIS. JAY H. BUTLER, Newark, Ohio. Filed Dec. 24, 1920. Serial No. 432,914. 1 Claim. (Cl. 180—77.)



In a device of the class described, a motor propelled vehicle comprising front wheels and a frame, and provided adjacent to its forward end with an emergency brake lever, a reverse pedal, a clutch pedal and a service brake pedal; a body mounted on the frame and including a floor, the body being provided at its rear end with a depending cab comprising a bottom located at a level below that of the floor; other pedals mounted at the bottom of the cab, connections between said other pedals on the one hand and the brake lever and the first specified pedals on the other hand, the connections being extended upwardly in the cab and forwardly beneath the floor; an upright shaft supported for rotation in the body and provided with a steering wheel located above the floor in advance of the cab but accessible from the cab; and means for connecting said shaft with the front wheels.

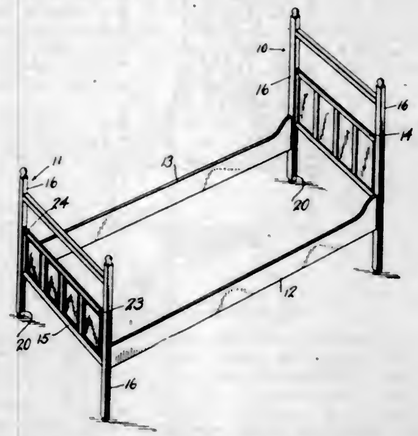
1,474,236. WRENCH. CHESTER PHILIP BYRNE, Marysville, Calif. Filed June 15, 1922. Serial No. 568,481. 8 Claims. (Cl. 81—121.)

1. A wrench of the type specified, comprising a brace, a socket arranged on the shank thereof for reception of nuts and the like, a spring-actuated ejector slidable in the socket, and separate rotary means for retracting and



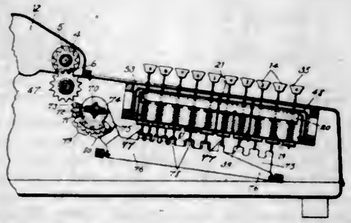
holding the ejector temporarily in such a position, said ejector being automatically released when said means is rotated with respect to the aforesaid shank.

1,474,237. BEDSTEAD. JOSEPH A. CALDWELL, Arkadelphia, Ark. Filed Apr. 15, 1922. Serial No. 553,155. 1 Claim. (Cl. 5—280.)



A bedstead including a head board and a foot board, the elements of which are provided with vertical grooves, and air deflecting devices movable bodily in vertical planes in said grooves, said deflecting devices being slidable to a point permitting their upper edges to assume a position approximately flush with the upper surface of a mattress when placed on the bedstead.

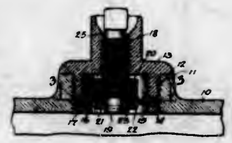
1,474,238. SELECTOR MECHANISM FOR CALCULATING MACHINES. GEORGE C. CHASE, South Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a Corporation of New York. Filed May 12, 1922. Serial No. 560,360. 9 Claims. (Cl. 235—73.)



4. In a multiple order calculating machine, numeral wheels, actuating mechanism therefor including two members related to a single order, one of said members being adapted to be set to position to determine one, two or three degrees of registering movement of a numeral wheel, and the other member adapted to be set to position to determine four or eight degrees of registering movement of said wheel.

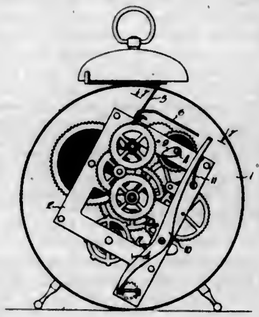
5. In a multiple order calculating machine, numeral wheels, actuating mechanism therefor including two gear members related to a single order and provided each with a plurality of teeth of graded length, and means for shifting said gear members laterally to bring a selected number of teeth into operative relation with a single numeral wheel.

1,474,239. LOCKING DEVICE FOR PLUGS. GEORGE S. COLLINS, Meadville, Pa. Filed Feb. 14, 1923. Serial No. 618,943. 5 Claims. (Cl. 151—14.)



1. A device of the character described, comprising a hollow plug having openings extending through its wall, a curved spring mounted in said hollow plug, the ends extending through said openings, means mounted in the plug for straightening the spring to project its ends beyond the walls of the plug, and means for limiting the movement of said means provided for straightening the spring.

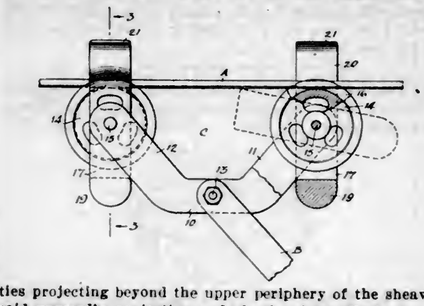
1,474,240. ALARM-CLOCK RELEASE FOR PHONOGRAPHS. LOUIS CRANE, New York, N. Y. Filed Dec. 19, 1922. Serial No. 607,848. 2 Claims. (Cl. 161—23.)



1. In an alarm clock phonograph release, a brake plate mounted within and extending from an alarm clock, said plate having a notch in its edge, a latch lever engageable in said notch, a spring tending to move the plate in a predetermined direction, said lever holding the plate against said movement, an alarm mechanism, a cam movable upon the actuation of said mechanism to engage the latch lever, a second spring normally holding the latch lever against movement by the cam, a finger on the alarm mechanism vibrating therewith, the upper end of the latch lever engageable with the end of the finger in one position of the lever to stop the vibration of the alarm mechanism.

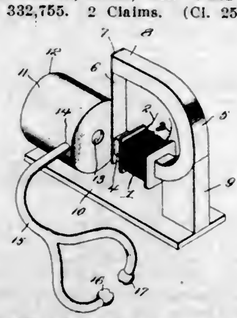
1,474,241. TROLLEY SHEAVE. JOHN JOSEPH CRAPPER, Brooklyn, N. Y. Filed Mar. 29, 1923. Serial No. 628,602. 2 Claims. (Cl. 191—58.)

1. A trolley comprising a member having pivotal connection with the upper end of a trolley pole for longitudinal rocking movement, longitudinally spaced contact sheaves journaled to said member for making contact with the trolley wire at longitudinally spaced points, and guard means for each contact element for maintaining the same in contact with the trolley wire, said guard means consisting of spaced pairs of arms, a weight connecting the lower end of each pair of arms, said arms being journaled coincident to the sheaves and having their upper extremi-



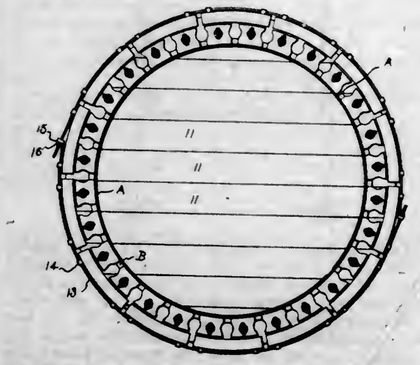
ties projecting beyond the upper periphery of the sheaves, said upwardly projecting ends having inwardly bent portions and outwardly flared terminals.

1,474,242. ACOUSTIC RECEIVING APPARATUS. CHARLES A. CULVER, Beloit, Wis. Filed Oct. 23, 1919. Serial No. 332,755. 2 Claims. (Cl. 250—24.)



1. In a signalling device, an electro-magnetic monotone system comprising an electro-magnetically vibrated reed supported at one end, in order to be fully responsive to vibrations of a single frequency, an electro-magnet for vibrating said reed at one side of said reed, a resonance chamber normally in resonance with said reed vibrations at the other side of said reed for amplifying the intensity of sounds produced by said reed, and aural means for the reception of said sound waves.

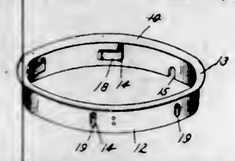
1,474,243. CLAMP FOR TANKS. GIBBONS J. DENNIS, Kiefer, Okla. Filed Dec. 2, 1922. Serial No. 604,529. 3 Claims. (Cl. 220—5.)



1. In combination, a base, a tank mounted thereon and formed at its lower edge with an outwardly extending flange seated upon the base, a plurality of clamping plates

arranged in circumfernetial series and bearing upon the base and upon said flange, said clamping plates being formed with slots extending radially with respect to the center of the base, and bolts passing through the base and through said slots.

1,474,244. SEPARABLE RIM. JOSEPH M. DIRIENZO, Madison, Wis. Filed July 25, 1922, Serial No. 577,389. Renewed Sept. 13, 1923. 4 Claims. (Cl. 301—35.)



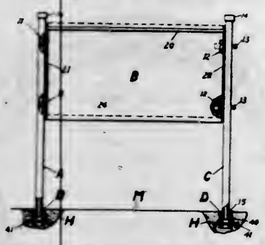
1. A rim formed of a pair of similar sections each including a cylindrical band formed at one edge with a tire retaining flange, both of said bands being formed with slots to be brought into registration, and a plurality of locking elements formed as leaf springs pivoted upon the inner periphery of the band of one section and having outwardly extending ends designed to pass through the slots in the band of the other section.

1,474,245. SUTURE INSTRUMENT. MARTIN DONELSON, Memphis, Tenn. Filed June 8, 1921. Serial No. 476,061. 1 Claim. (Cl. 128—340.)



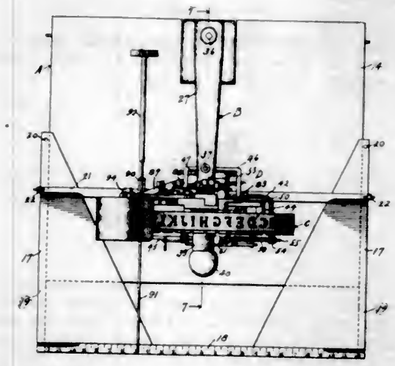
1. In a suture instrument, a handle from which the needle is adapted to extend, a container on the handle for a spool of thread to be supplied to the needle, said container being open at the outer end to facilitate insertion and removal of the spool, the container having a thread guide opening therethrough, a flexible cover resting on said outer end of the container and adapted to be depressed to function as a brake to retard rotation of the spool as the thread is paid out, a retainer fitted to the container having an opening so that a finger of the operator may engage the said cover, the retainer having an inwardly extending flange about the opening to overlap the marginal edge portion of the cover to clamp it against said end of the container.

1,474,246. DISPLAY DEVICE. FREDERICK L. DONOVAN, Cambridge, Mass. Filed Jan. 13, 1922. Serial No. 528,993. 1 Claim. (Cl. 40—125.)



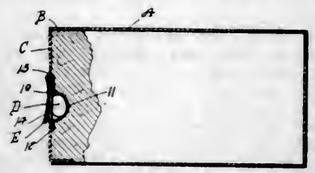
In a display device, the combination of a board, headed studs projecting from one edge of said board, threaded nuts in a recess in the opposite edge of the board, a standard provided with keyhole slots which engage said studs, and another standard adjacent the opposite edge the last named standard having threaded bolts which engage the said threaded nuts in the board, the threaded bolts being alined with the lower end of the key-hole slots in the other standard, and means in the ground to receive the lower ends of the standards.

1,474,247. WRITING MACHINE. HJALMAR ELMBLAD, Chicago, Ill. Filed Oct. 23, 1922. Serial No. 596,349. 10 Claims. (Cl. 197—47.)



1. In a printing machine, the combination of a platen for paper to be printed; a rotatable type wheel movable so as to be depressed and engage said paper, said wheel having spacing notches on the rim thereof corresponding to just spacing; a mechanical movement operated by elevation and depression of said wheel to rock a lever; a bridge engaged by said lever and having resilient means tending to move it in a forward direction, said lever being disposed to move it in a return direction against the tension of said resilient means; a rod secured to said bridge by resilient means permitting movement with respect thereto in a forward direction and restraining it against the movement relative thereto in a return direction; a slidable frame; a hook on said frame disposed to engage a notch on said wheel when the latter is in depressed position; a feed lever pivoted on said frame and having a depressible feed dog; resilient means tending to elevate said dog; means securing said feed lever to said rod so as to initially rock the latter and to move said frame; and manually operable means to move said rod independently of said bridge.

1,474,248. CONTAINER FOR COLORING-AGENT CAPSULES. ARTHUR ENGLISH, Kankakee, Ill. Filed Mar. 29, 1922. Serial No. 547,764. 6 Claims. (Cl. 206—47.)

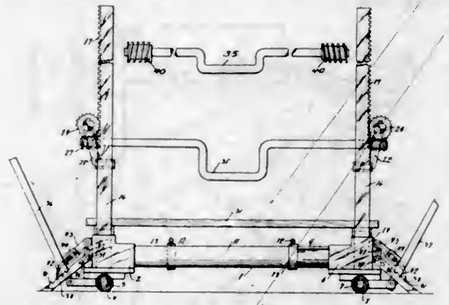


2. A container for attachment to a carton consisting of a single blank for passage through the wall of the carton, the blank being bendable intermediate its ends to form a flap on one side of the wall, the blank having a depressed receptacle on the other side of the wall extending away from and to be closed by the flap.

1,474,249. ADJUSTABLE PLATFORM. JOHN FERRERO, Angels Camp, Calif. Filed July 17, 1922. Serial No. 575,689. 1 Claim. (Cl. 304—29.)

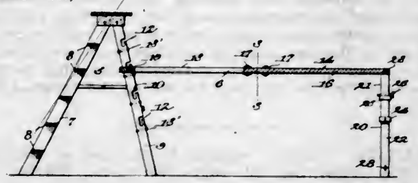
A portable adjustable platform comprising a rectangular truck, a post mounted in each corner having teeth thereon, two frames supporting the ends of the platform sliding between adjacent posts in parallel relation and means for raising and lowering the frames, comprising a horizontal shaft associated with each frame having two

gear wheels thereon engaging the teeth of the respective posts, a worm gear mounted on each shaft, a worm engaging each worm gear and a shaft operatively engaging



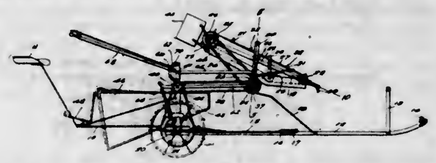
both worms having a central crank thereon allowing the worms to be manipulated simultaneously by a person standing on the platform.

1,474,250. COMBINED STEPLADDER AND SCAFFOLD. FRANK FOLLIARD, Brooklyn, N. Y. Filed July 17, 1922. Serial No. 575,549. 2 Claims. (Cl. 228—17.)



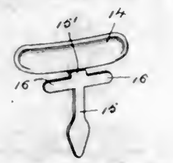
1. The combination with a step ladder including a prop having spaced side members respectively provided with bayonet slots, of a longitudinally extensible platform including a plurality of companion sections, means for vertically supporting the platform from one end of one section, the other section of the platform including a plurality of spaced bars, and a cross rod connecting the bars of said other section together and having extensions interchangeably engageable in the said bayonet slots, to hold the end of the platform at the prop in the same general plane with the remote or opposite end of said platform, the platform consisting of telescopic parts adapted to be nested between the side members of the prop, the said cross-rod further co-operating with certain of said bayonet slots when the platform is nested as aforesaid, whereby to hold the platform against relative separation.

1,474,251. GRAIN-HEADING MACHINE. CULLEN CURLEE FORBES, Lubbock, Tex. Filed June 16, 1922. Serial No. 568,890. 8 Claims. (Cl. 56—56.)



1. A heading machine comprising a wheel supported frame including spaced parallel tongues connected by an arch member, draft means located at the outer side of the tongues, an evener located within the frame and connected with said draft means, a seat at the rear end of the frame, a receptacle carried by the frame, gathering elements located between said tongues and extending upwardly, a conveyor structure mounted above the frame, cutting mechanism located beneath the conveyor structure, and means for simultaneously driving the conveyor and cutter.

1,474,252. COLLAR FASTENER. JAMES J. FURLONG, Tacoma, Wash. Filed Aug. 29, 1921. Serial No. 496,378. 1 Claim. (Cl. 24—101.)



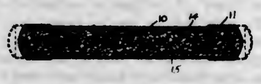
The collar fastener of the class described comprising an arcuate shaped plate rounded on its ends, an offset portion inclined for horizontal connection intermediate the ends of the plate, a tongue depending from the offset portion and being broadened at its free end and lateral extensions projecting horizontally from the opposite sides of the tongue at the juncture of the offset portion with the tongue for the purpose specified.

1,474,253. TUBE AND CLOSURE. HARRY G. GANSZ, Cincinnati, Ohio. Filed Dec. 10, 1921. Serial No. 521,504. 1 Claim. (Cl. 221—60.)



A dispensing device including a collapsible receptacle provided at one end with a cylindrical head terminating in a centrally disposed conical peak, the upper end of said head being provided with radially disposed ports to permit the contents of the receptacle to be discharged through said head, the cylindrical outer surface of substantially the entire upper half of said head being smooth and the cylindrical surface of substantially the entire lower half of said head being screw-threaded, and a cap cooperating with said head and terminating in an apertured dome adapted to cooperate with the conical peak for entirely closing the receptacle, the cap being provided with an internal cylindrical surface of substantially the same diameter as the cylindrical surface of the head, extending from one end of the cap to the other, substantially the entire upper half of the cylindrical surface of the cap being smooth to cooperate with the smooth portion of the cylindrical surface of the head of the receptacle and substantially the entire lower half of the cylindrical surface of the cap being screw-threaded to engage the threaded portion of the receptacle thread, the height of said threaded portions being substantially equal to the height of the smooth cylindrical surface of the head from the ports to the screw threads of the head, in order to prevent material discharged from said ports from reaching said threads.

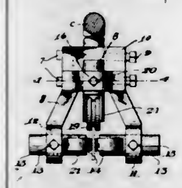
1,474,254. HUMIDOR. JULES GERSTLE, New York, N. Y. Filed Mar. 15, 1921. Serial No. 452,619. 4 Claims. (Cl. 131—30.)



1. A humidor, including a perforated body, a moisture retaining filler within said body, said body presenting a

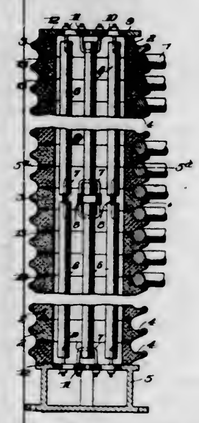
split portion, a plate adapted to overlie said split portion, and caps slidably secured to the ends of said body, and being adapted to retain said plate in interposed relationship between them.

1,474,255. BAND-SAW GUIDE. GEORGE W. GILLASPY, Pendleton, Oreg. Filed Nov. 12, 1921. Serial No. 514,720. 1 Claim. (Cl. 143—162.)



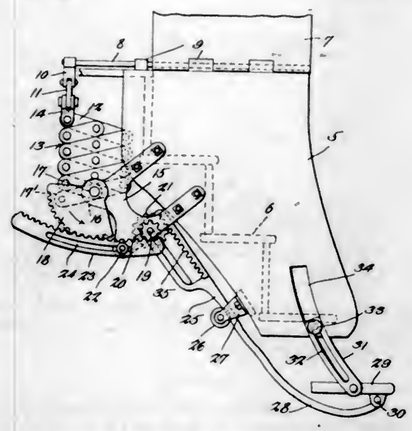
A band saw guide comprising a bracket adapted to be detachably mounted upon the frame of a band saw machine and including spaced arms terminating in apertured ears, said bracket further including an ear member disposed in a plane at right angles to the plane of the first named ears, stubs slidably mounted through said first named ears and arranged in end to end relation, rollers journaled on the adjacent ends of said stubs and adapted to engage against the sides of a band saw, set screws passing through the first named ears and engaging said stubs for maintaining adjustment thereof, a similar stub slidably mounted through the last named ear and carrying a grooved roller for engaging the back edge of the saw, and a set screw passing through said last named ear and engaging the stub therein for maintaining adjustment thereof.

1,474,256. INSULATOR. WALTER T. GODDARD, Victor, N. Y., assignor, by mesne assignments, to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed Mar. 14, 1917. Serial No. 154,681. 5 Claims. (Cl. 173—318.)



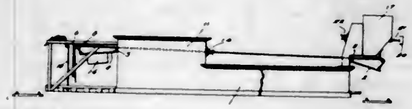
2. A column type insulator comprising a series of annular insulating units superposed one upon the other and each provided with a flange cut away to form a lip for receiving portions of successive convolutions of a conducting coil, interlocking means between adjacent units acting to prevent their relative movement, and tension rods formed of sections of insulating material and connecting the uppermost and lowermost units of the series and acting to hold all the insulating units in a state of compression.

1,474,257. SAFETY-APPLIANCE STEP. JESSE H. HARRISON and MATHEW WALKER, Manly, Iowa. Filed May 11, 1923. Serial No. 638,296. 5 Claims. (Cl. 105—430.)



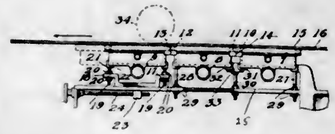
1. In combination with the vestibule floor door of a car, an extension step operating mechanism including a lazy tong construction, means for connecting the lazy tong construction to the door to cause a relative movement of the lazy tong construction when the door is moved, an extension step, and means controlled by the movement of the lazy tong for raising and lowering the step.

1,474,258. DRIER. GEORGE F. HAUSERMAN, Bartow, Fla. Filed Dec. 30, 1921. Serial No. 525,835. 2 Claims. (Cl. 34—46.)



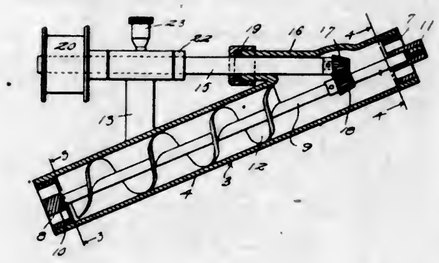
1. A kiln of the class described comprising a drying room, a heating chamber above the same and connected with the front end thereof, a suction chamber above the drying room and connected with the rear end thereof and means directing the heated air from the heating chamber to the lower part of the drying room.

1,474,259. EXTRACTING MOISTURE FROM PLASTIC MATERIAL. JACOB HEESS, Ebertsheim, Germany, assignor to Robert J. Marx, London, England. Filed Aug. 3, 1920. Serial No. 401,075. 3 Claims. (Cl. 92—51.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



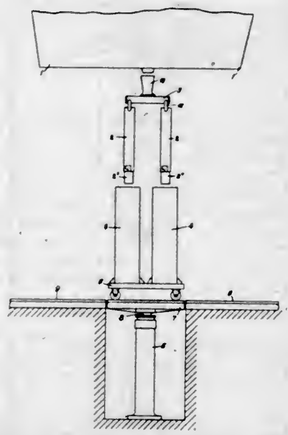
1. A method of extracting moisture from a web which consists in exposing one side of said web successively to contiguous areas of progressively increasing degrees of suction while excluding normal atmospheric pressure from the space between said areas.

1,474,260. PUMP. ADOLPH J. HEIN, Sioux City, Iowa. Filed Apr. 18, 1922. Serial No. 554,827. 5 Claims. (Cl. 103—89.)



4. A pump comprising a cylinder, a shaft journaled in said cylinder, a spiral formed on said shaft, a neck formed on said cylinder, a standard carried by said cylinder, a shaft journaled in the standard and extending into the neck, means connecting the first and second named shafts, a pulley secured to the second shaft and adapted to have the fan belt of an engine trained thereover.

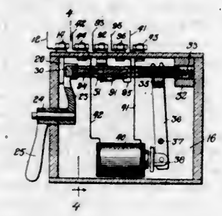
1,474,261. POURING OR TEEMING OF MOLTEN STEEL OR METAL INTO INGOT OR LIKE MOLDS. HAROLD HERON HOSACK, Farnham, England. Filed Mar. 22, 1923. Serial No. 626,915. 4 Claims. (Cl. 22—79.)



1. Means for pouring or teeming molten metal into ingot or like molds, comprising a stationary ladle, a stationary shield tube through which the metal from the ladle is adapted to fall, a mold adapted to be raised over the tube and subsequently to be lowered in pouring; said shield tube having a detachable lower end.

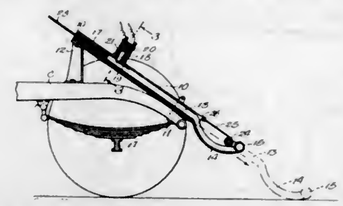
1,474,262. LOCKING DEVICE AND ALARM FOR AUTOMOBILES. FRANK HOYT and CHANDLER FINNIE HOLMES, Newburyport, Mass. Filed Nov. 26, 1919. Serial No. 340,784. 11 Claims. (Cl. 200—44.)

1. In combination, a pair of spaced contacts, a movable bridge member comprising an arm pivoted at its one end and formed with a lateral projection adapted to close an electric circuit when connected across said contacts, a bolt extending between said contacts and transversely to



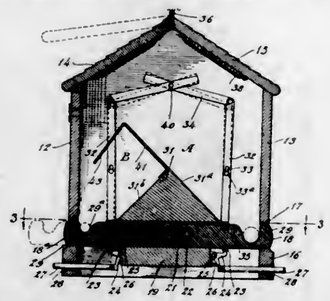
the path of movement of said arm whereby said arm may be locked to hold its laterally extending portion in its non-operative position.

1,474,263. COMBINED VEHICLE FENDER AND BUMPER. WALTER JAEGER, Hoboken, N. J. Filed Aug. 9, 1923. Serial No. 656,543. 4 Claims. (Cl. 293—26.)



1. A combined fender and bumper for automobiles, comprising a transverse bumper bar supported from the forward end of the chassis respectively for downward and forward movement and upward and rearward movement, a common means for effecting the first movement and for tensioning the same against the latter movement, means for retaining the same against the former movement, manually controlled magnetically operable means for releasing said retaining means, and a strip of extensible material secured at its rear end to the forward end of the chassis, and means carried by the cross bar to which the opposite front end of the extensible material is secured and upon which the same is normally wound.

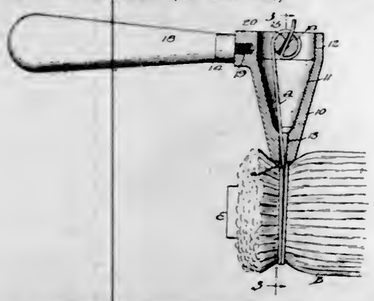
1,474,264. CIGAR CONTAINER AND HUMIDOR. GEORGE KARP, Long Island City, N. Y. Filed June 17, 1922. Serial No. 569,170. 1 Claim. (Cl. 211—8.)



A container adapted to hold a plurality of articles such as cigars, cigarettes or the like, means to divide said container into a pair of compartments, a receptacle for each compartment slidably mounted within said container and having a transverse groove therein adapted

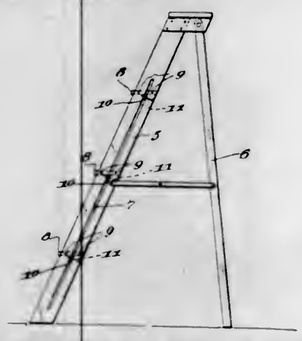
to contain only a single article, said means being constructed and arranged to cause the articles to be guided downwardly in opposite directions towards and in alignment with the respective groove for each compartment, resilient means for normally urging each receptacle outwardly of said container and means to hold each receptacle within said container against the action of said resilient means, comprising a keeper mounted on each of said receptacles, a pivoted catch having a hooked end to engage said keeper and a rod pivotally connected to said catch extending outwardly of said container, means independent of said catch and rod to engage said receptacles and retain same within the container when said catch is released, said last mentioned means comprising a locking bar for each receptacle slidably mounted on said container, and a manually operable rod pivoted to said locking bar and pivotally mounted on said container adapted to actuate said locking bar into or out of engagement with said receptacle.

1,474,265. WIRE-BINDING DEVICE. DUNCAN KENNER, New Orleans, La. Filed July 11, 1922. Serial No. 574,202. 3 Claims. (Cl. 140—93.)



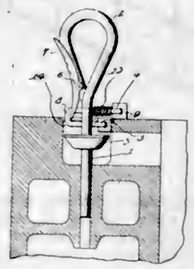
1. A wire binding device including an element having a bore therethrough and adapted at its front end to bear against the material to be bound, said element tapering toward the front end thereof, and a winding element supported on said first element and adapted to draw tightly the wire when wound about the article to be bound and passed through said first element to the winding element, said binding device being adapted to be bodily rocked with its tapered forward end as a center of movement for bending the bound wire for fastening the same tightly.

1,474,266. STEP-LADDER. CHARLES W. KRATHWOHL, Chicago, Ill. Filed Apr. 12, 1922. Serial No. 551,944. 2 Claims. (Cl. 228—58.)



1. The combination with a ladder having spaced legs and steps carried by said legs; of a series of longitudinally doubled metallic cross strips connecting said legs and having their ends inserted therein, said metallic cross strips being resilient and their two sides having a normal tendency to spread, and said strips having transverse apertures in both ends, fastening elements carried in the longitudinal edges of said legs and extending through said apertures for maintaining said cross strips in position.

1,474,267. TOOL. HARRY H. KUHN, Marshall, Ill. Filed July 22, 1922. Serial No. 576,795. 3 Claims. (Cl. 15—104.01.)



1. A tool for the purpose set forth including a shank having a handle at one end thereof, a cup-shaped member integrally formed on the shank, a lever pivotally secured to the handle, a U-shaped member slidable through the shank and loosely engaged by the lever, removable scraper members on the arms of the U-shaped member, and spring means influencing the U-shaped member in one direction.

1,474,268. BRACES. PIERRE MARIE JOSEPH LAFLÈCHE, Paris, France, assignor to Société Laflèche Frères, Paris, France. Filed Nov. 10, 1920. Serial No. 423,154. 1 Claim. (Cl. 241—26.)

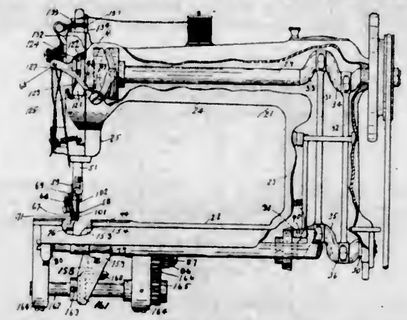


A suspender formed of a single strap folded intermediate its ends into V-shaped formation, said strap consisting of superposed strips of woven material connected together throughout the length of the strap at equally spaced points by woven threads of the material, the spaces between the connected portions of the strips providing equally spaced pockets, tabs extending through pockets arranged near the ends of the strap, and another tab extending through a pocket at the folded portion of the strap.

1,474,269. SEWING MACHINE. WILLIAM F. LAUTENSCHLAGER, Cincinnati, Ohio. Filed July 26, 1919. Serial No. 313,602. 6 Claims. (Cl. 112—221.)

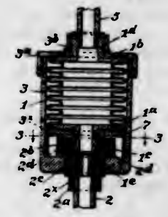
1. In a sewing machine, the combination of a reciprocating needle-bar above the plane of the material, feeding means for the material, a loop-taker below the plane

of the material, and means whereby to position the eye of a needle operated by said bar lengthwise of the line



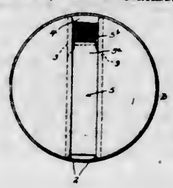
of feed of the material when said eye is in the material and to position said eye crosswise of said line of feed when said eye is adjacent to said loop-taker.

1,474,270. QUICK-DETACHABLE PIPE JOINT. ARTHUR P. LEWIS, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 28, 1923. Serial No. 659,761. 4 Claims. (Cl. 285—1.)



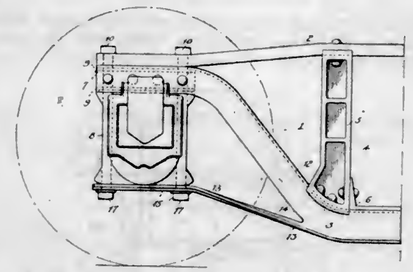
1. In a detachable pipe coupling, the combination with a pipe element, of a syphon having one head connected thereto and its other end provided with a seating, a member connected with said pipe element located adnormally holding the jaws in open position, a projecting with said pipe element to be held against lengthwise movement, said element having a non-circular opening, and a second pipe element having a non-circular head to cooperate with said opening and having a seat to cooperate with the seating of the syphon head.

1,474,271. BOX AND ATTACHMENT THEREFOR. EDWIN C. J. LLOYD, Jeannette, Pa. Filed July 12, 1922. Serial No. 574,485. 2 Claims. (Cl. 220—85.)



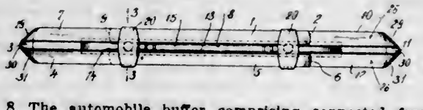
1. In combination with a box including a lower section and a cover removably secured thereon, said cover being provided with a channel having a longitudinally extending groove in each side, a brush fitting into said grooves so as to be readily slid into and out of the channel, the bristles of the brush being disposed substantially in the plane of the body of the brush and the bottom of the channel being disposed below said grooves.

1,474,272. TRUCK SIDE FRAME. WALTER ARNDT LUCAS, Hawthorne, N. J., assignor, by mesne assignments, to The T. H. Symington Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 29, 1920, Serial No. 377,441. Renewed May 25, 1923. 9 Claims. (Cl. 105—204.)



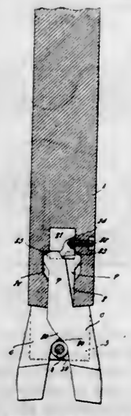
1. A truck side frame comprising a top and a plurality of spaced flanged bottom arch members, and means for uniting said members adjacent the journal boxes, each of said bottom arch members being made from an integral bar split in a suitable manner to form journal box tie members therefrom.

1,474,273. BUFFER CONSTRUCTION. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Apr. 21, 1923. Serial No. 633,600. 38 Claims. (Cl. 293—55.)



8. The automobile buffer comprising connected front elements formed of steel strip and each having vertically displaced front portions and an integral connector portion at the end of the element and adjacent oppositely inclined parts of said front portions.

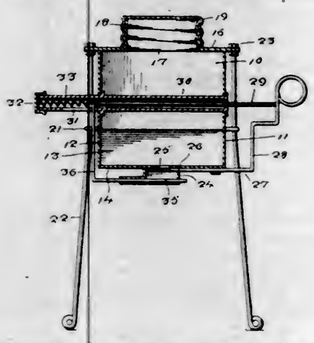
1,474,274. UNDERREAMER. THOMAS JOHNSON MCCORMICK, Detroit, Mich., assignor, by mesne assignments, to McCormick Drilling Tool Company, Detroit, Mich., a Corporation of Michigan. Filed June 12, 1922. Serial No. 567,767. 2 Claims. (Cl. 255—75.)



1. An underreamer comprising a body, jaws carried thereby, means for yieldingly supporting the jaws in the body, a stationary pawl in the body having inclined

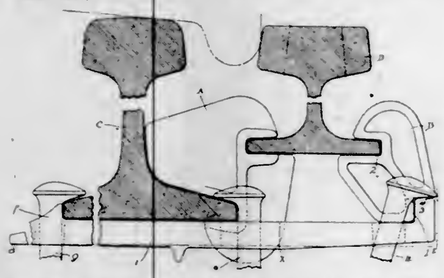
faces for engaging inclined parts on the jaws for normally holding the jaws in open position, a projecting shoulder at the rear edge of the upper extremity of each jaw and the interior of the body having recesses for receiving said projecting shoulders.

1,474,275. SUGAR-DISPENSING RECEPTACLE. WILLIAM A. MCINTYRE, Hoff, Oreg. Filed Nov. 26, 1921. Serial No. 517,900. 4 Claims. (Cl. 221—114.)



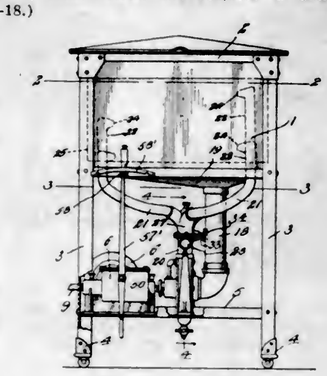
1. A dispensing device of the character described comprising a receptacle having a filling opening in its top and provided at its bottom with a discharge opening, a measuring receptacle secured upon the bottom of said receptacle beneath said discharge opening and provided with oppositely disposed slots, a strip slidably mounted upon the bottom of the first named receptacle and passing through said slot, said strip having its upper end extending upwardly in spaced relation to the front of the first receptacle, a spring pressed plunger connected with said upper end of said strip whereby to normally hold the same in such position that the lower portion thereof will uncover said discharge opening, and a second angularly shaped strip disposed at the opposite side of the receptacle and having its upper end connected with said plunger and its lower end slidably mounted at the bottom of said measuring receptacle whereby upon movement of said plunger to effect covering of the discharge opening in second named strip will uncover the bottom of the measuring receptacle.

1,474,276. GUARD-RAIL FIXTURE FOR RAILWAY TRACKS. THOMAS MANEY, Louisville, Ky. Filed July 25, 1922. Serial No. 577,397. 8 Claims. (Cl. 238—20.)



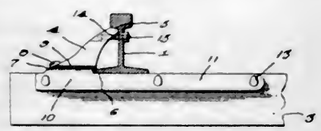
1. In a guard-rail fixture for railway tracks, the combination of a base-plate having a vertical shoulder, a main rail, a guard-rail, two castings, one of which is interposed between and fitted to the inner flanges of the two rails, the other fitted to the outer flange of one of said rails and recessed to receive the vertical shoulder of the base-plate, and means for spiking through the base-plate and against said shoulder.

1,474,277. WASHING MACHINE. LOUIS V. MARTEL and PHILIP METHOT, Manchester, N. H., assignors of one-third to Oscar F. Moreau, Manchester, N. H. Filed May 20, 1922. Serial No. 562,399. 2 Claims. (Cl. 68—18.)



1. In a clothes washing machine, a casing having a downwardly inclined bottom, a fluid pump having an intake pipe connected with the lowest part of the bottom, an outlet pipe for the pump, branches secured thereto and directed through different parts of the bottom adjacent to the sides of the casing, the outlet pipes in the casing being of different lengths and having nozzles secured to the ends thereof, a removable reticulated clothes receiving basket arranged in the casing and having its bottom provided with depending plates which rest on the bottom of the casing, and means for operating the pump.

1,474,278. RAIL BRACE. LOUIS H. MAYVILLE, Granite Heights, Wis. Filed Jan. 8, 1923. Serial No. 611,341. 1 Claim. (Cl. 238—336.)



The combination with railway rails and ties on which the rails rest and to which the rails are spiked, of brace members for the outer sides of the rails, each including a plate resting on a tie, spiked thereto and having its inner edge in contacting engagement with the outer edge of the base flange of the rail, said plate having a downturned flange formed with a longitudinal extension which rests against and is spiked to the side of the tie, said plate having formed therewith an upwardly extending inwardly inclined block which decreases in thickness from its juncture with the plate to its outer edge and whose inner and lower edge is channeled to provide a pocket for the edge of the base flange of the rail, and whose reduced outer end is cut at an angle to receive the head of the rail thereon and to contact with the web of the rail at the juncture of its head therewith, and removable connecting means between the block and the web of the rail.

1,474,279. TRANSMISSION MECHANISM. JULIAN E. MINNER, Mandan, N. Dak. Filed June 23, 1922. Serial No. 570,512. 1 Claim. (Cl. 74—39.)

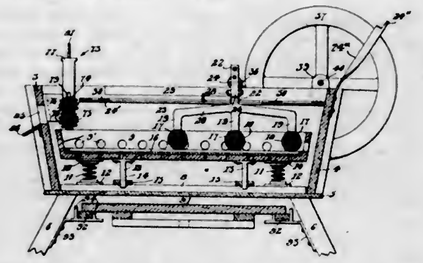
In a device of the class described, a plurality of rods for shifting clutch yokes, said rods being provided with recesses oppositely located, a lever for universal movement about its pivotal point, one end of the lever engaging the walls of the recessed portions, a transversely

movable slide having a slot therein engaged by the end of the lever, said rods being provided with additional recesses oppositely located, and lugs carried by said slide and cooperating with the recesses last named, said lugs



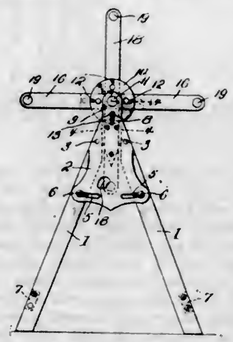
extending toward each other over the rods and spaced to permit partial engagement of both rods, and free longitudinal movement of either rod upon transverse movement of the slide by the lever.

1,474,280. WASHING MACHINE. EMERY MOLNAR, Flemington, N. J. Filed Sept. 21, 1922. Serial No. 589,586. 2 Claims. (Cl. 68—20.)



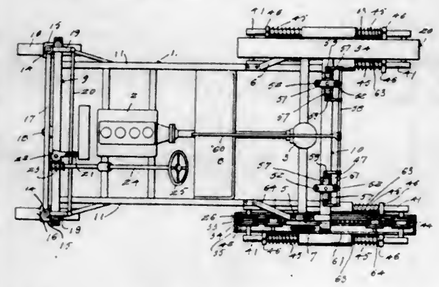
1. A washing machine comprising a main water receptacle, a clothes tray supported within said receptacle, rubbing rollers positioned for reciprocating movement within said tray, hangers for the opposite ends of the rubbing rollers each having a vertically extending arm formed thereon, a connecting bar between the two arms having guide rollers positioned adjacent the outer ends thereof for rolling contact with the side walls of the main receptacle, and means secured to the opposite ends of the connecting bar for reciprocating said rubbing rollers.

1,474,281. CLOTHES DRIER. MARLEY NEEDLER, Muskegon Heights, Mich. Filed July 21, 1922. Serial No. 576,652. 3 Claims. (Cl. 68—34.)



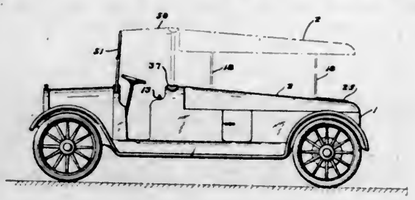
3. In a clothes drier, the combination with a collapsible standard made up of rungs and end members, the latter having bearings, and a spring bolt beneath each bearing, of a collapsible reel comprising duplicate heads connected by longitudinal rungs, each head including a disk having a trunnion mounted in one of said bearings, the disk being provided with a series of holes adapted to aline with said spring bolt, radial arms secured rigidly to said disk in alinement with two of said holes, other arms pivotally connected with said disk at points between the fixed arms and in alinement with the remaining two of said holes, and means for holding the last named arms when they stand radial to the disk or for permitting them to fold alongside the first named arms, substantially as described.

1,474,282. MOTOR LOGGING TRACTOR. CHARLES NOBLE, Sisson, Calif. Filed Dec. 20, 1921. Serial No. 523,676. 7 Claims. (Cl. 180—10.)



1. A tractor construction comprising arched rear axles having bifurcated ends, load carrying wheels journaled to the bifurcated ends of the axle, annular tracks engaged by the load carrying wheels, teeth on said tracks, ring gears secured to the load carrying wheels and engaging the teeth to establish driving connection between the load carrying wheels and the tracks.

1,474,283. CONVERTIBLE BODY FOR AUTOMOBILES. HERMAN NYSTROM and RUDOLPH E. NELSON, Philadelphia, Pa. Filed May 1, 1922. Serial No. 557,520. Renewed Oct. 6, 1923. 10 Claims. (Cl. 296—37.)

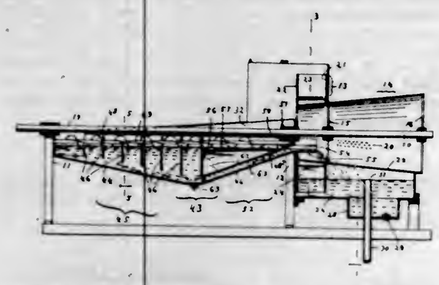


1. In a convertible body for motor cars, the combination of an adjustable windshield, a slotted supporting frame therefor and rocking link members provided with pins near their ends, said pins being adapted to engage the slotted portion of the supporting frame to raise and lower said windshield.

1,474,284. VEGETABLE CLEANER AND SEPARATOR. GEORGE J. OLNEY, Westernville, N. Y. Filed Feb. 8, 1923. Serial No. 617,751. 22 Claims. (Cl. 146—194.)

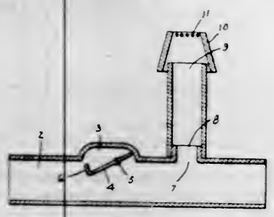
1. In a machine for cleaning and separating vegetables of which the good tend to sink in water and the poor to float, the combination of an open-topped trough having its bottom slanting downwardly from the receiving end thereof and having the portion thereof leading towards the outlet of limited height and slanting from the bottom of the trough upwardly to an outlet below

the level of the inlet, and means for continuously introducing vegetables and water to the receiving end of the



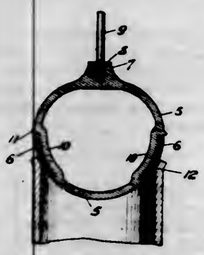
trough whereby the poor vegetables and light dirt rise in the trough and the good vegetables are forced up to the outlet by the flow of water.

1,474,285. AIR CONTROL FOR DRAIN TILE. JOHN PERKINS, Liberty, Ind. Filed Mar. 21, 1921. Serial No. 453,931. 4 Claims. (Cl. 61—11.)



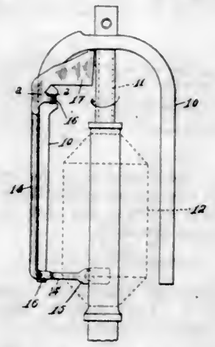
1. An air controlling means for a drain comprising an insert section adapted to replace one member of the drain, a pipe section extending upwardly from said insert section, a basin surrounding the upper end of said pipe, a valve pivotally mounted in said insert section, and means on one end of said valve for preventing inward passage of air through said drain when the end of said valve is elevated.

1,474,286. HARD-RUBBER FLUSH BALL FOR WATER-CLOSET TANKS. JULIUS PHILLIPS, Trenton, N. J., assignor to the Luzerne Rubber Company, Trenton, N. J., a Corporation of New Jersey. Filed Dec. 15, 1921. Serial No. 522,479. 7 Claims. (Cl. 4—56.)



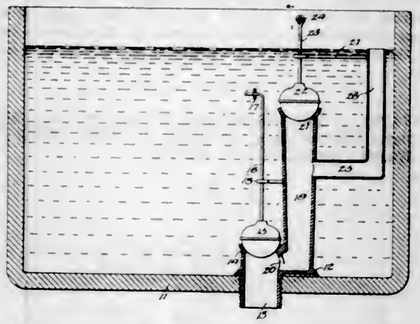
1. A device of the class specified, consisting of a jointless hard rubber body of substantially spherical form having a soft rubber member integral therewith and circumferentially surrounding said body above the lower portion of the latter.

1,474,287. FLIER. CHARLES PREW, Fall River, Mass. Filed Nov. 28, 1921. Serial No. 518,297. 1 Claim. (Cl. 118—57.)



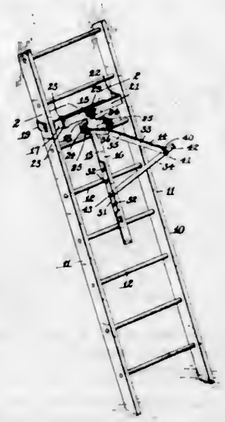
The combination with a flier for a roving, of a presser finger of the character described comprising a body portion arranged in close proximity and in parallelism with one arm of the flier, a shoe extension extending at right angles from the lower end of the body portion and thence being curved upon itself, a loop formed on said finger at the juncture of the extension and the body portion and adapted to surround the end of the arm, an axe shaped wind blade integrally formed on the upper end of the body portion and projecting inwardly from the flier in the manner described and a second loop formed on the finger at the juncture of the body portion and the blade for associating the finger with the arm together with the first mentioned loop in a manner to permit the partial rotation thereof in either direction for the purpose specified.

1,474,288. WATER-CLOSET VALVE. HENRY ARTHUR RATH, Elizabeth, N. J. Filed June 21, 1922. Serial No. 569,866. 1 Claim. (Cl. 4—37.)



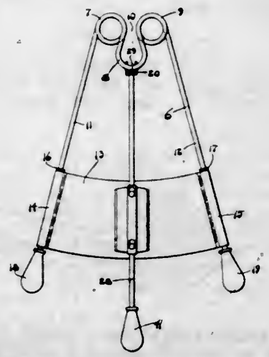
The combination with a tank, of an outlet pipe connected thereto and having its upper end formed with a valve seat, an upright branch outlet pipe connected to the first named outlet pipe beneath said valve seat and terminating a substantial distance above the valve seat, the upper end of said branch pipe being formed with a valve seat, an L-shaped overflow pipe connected to said branch outlet pipe intermediate the ends thereof and terminating above said second named valve seat, separate valves mounted on said valve seats and having stems, brackets carried by said overflow pipe and said branch pipe for guiding said stems, and separate means whereby to manually operate said first and second named valves independently of each other, said branch pipe establishing communication between said outlet and overflow pipes.

1,474,289. LADDER BRACKET. LOUIS P. REIMANN, Buffalo, N. Y. Filed Mar. 13, 1922. Serial No. 543,224. 4 Claims. (Cl. 304—34.)



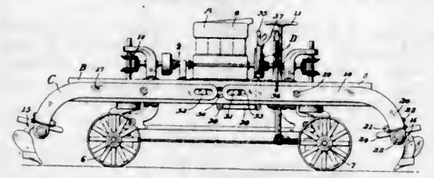
1. The combination with a ladder having rails and rungs connecting said rails, of a bracket comprising a securing member formed of two parts, one part comprising a flat transverse portion having a depending leg between its ends, retainer ears extending rearwardly therefrom at one end and a U-shaped rail-engaging member at its other end, the other part comprising a flat transverse portion lying against the rear of said first mentioned flat transverse portion between the retainer ears thereof and having a longitudinal slot and a rail-engaging member at its outer end, a bolt extending through said slot and through said first-mentioned flat transverse portion, a plank support pivotally connected to said leg adjacent said first-mentioned flat transverse portion, and a brace pivotally connected to the outer end of said plank support and having adjustable connection with said leg.

1,474,290. RAZOR-BLADE STROPPER. GOTTFRIED H. REIN, Cincinnati, Ohio, assignor of one-fourth to Joseph Binder, Ludlow, Ky. Filed Nov. 17, 1922. Serial No. 601,444. 2 Claims. (Cl. 51—153.)



1. A razor blade stropper comprising a frame having two branches, a strop extending between the branches, and a blade holder adapted to be moved over the strop between the branches, said frame having means between the branches adapted yieldingly to hold them apart and to mount the blade holder for movement between them.

1,474,291. PLOW. PHILIP A. REINHOLD, Akron, Ohio. Original application filed May 21, 1920, Serial No. 383,223. Divided and this application filed Jan. 9, 1922. Serial No. 528,108. 4 Claims. (Cl. 97—25.)



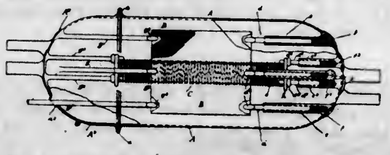
4. In a plow, a pair of transversely extending spaced beams, a plow share, a plow beam extended intermediate the spaced beams arranged to engage the oppostie faces thereof, and means for connecting the plow beam to the lowermost beam for swinging movement.

1,474,292. WALKING-STICK MACHINE GUN. HUBERT RENARD, Herstal lez Liege, Belgium. Filed Aug. 17, 1921. Serial No. 493,082. 2 Claims. (Cl. 42—52.)



1. In a walking stick machine-gun, the combination of a hollow tube or stick proper for flat section, adapted to receive removably an automatic pistol having its own magazine removed; a magazine for the pistol arranged in and extending down a portion of the hollow flat tube or stick proper; a bayonet removably contained within the lower portion of said stick proper; and pivoted spring catches arranged at the upper and lower end portions of the stick to retain respectively the pistol and the bayonet in position, substantially as described.

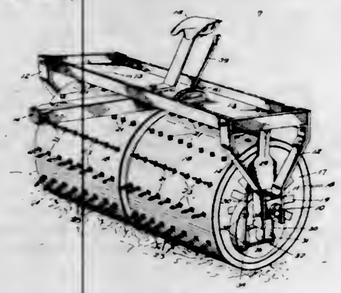
1,474,293. THERMIONIC VALVE. FREDERICK REYNOLDS, Walkerville-on-Tyne, England, assignor of one-half to The Silica Syndicate Limited, Westminster, London, England, a Company of Great Britain. Filed Nov. 10, 1921. Serial No. 514,424. 5 Claims. (Cl. 250—27.)



1. In a thermionic valve, rigid electrodes and telescopically engaged supporting members for each of said electrodes, together with spring means operatively in-

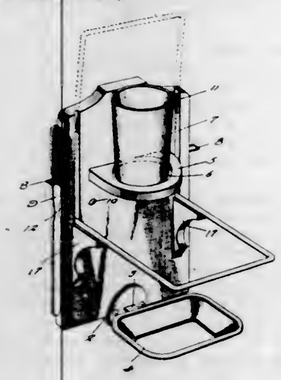
terposed between the telescopically engaged supporting members to permit said supports to yield telescopically with relation to each other.

1,474,294. ROLLER HARROW. GEORGE G. SCHROEDER, Washington, D. C., assignor to Roller Harrow Company, Washington, D. C., a Corporation of Delaware. Filed Apr. 14, 1922. Serial No. 552,534. 13 Claims. (Cl. 97—216.)



1. In a roller-harrow, the combination of a pulverizing drum, sets of harrow teeth extending slidably through said drum, independent bars secured to the several teeth of the respective sets, and adjustable means for automatically reciprocating said bars upon rotation of said drum.

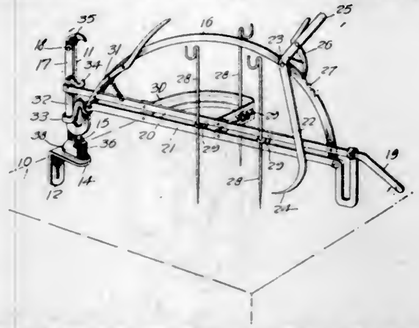
1,474,295. TOILET ACCESSORY. DANIEL B. SHIFFER, Annville, Pa. Filed May 11, 1923. Serial No. 638,292. 1 Claim. (Cl. 15—32.)



In a device for the purpose set forth, a flat body member having aligning slots and grooves, and a U-shaped spring member whose parallel arms are received through the slots and pivoted to the rear of the body, means on the body supporting the arms of the U-shaped member when the latter is swung outwardly therefrom, and the arms of the said member designed to exert a pressure against the walls of the grooves when the member is swung into the said grooves.

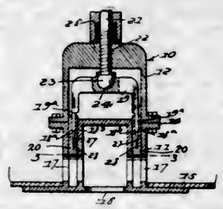
1,474,296. MEAT HOLDER. FINLEY C. SHOWN, Clarendon, Ark., assignor of one-half to O. H. Bowden, Clarendon, Ark. Filed Apr. 18, 1922. Serial No. 554,928. 3 Claims. (Cl. 146—218.)

1. An attachment for butchers' blocks comprising a standard, a frame pivoted to the standard by a downwardly extending member and having a horizontally extending part below the pivotal connection with the standard, cooperating latch devices on the standard and frame which when engaged support the frame in a po-



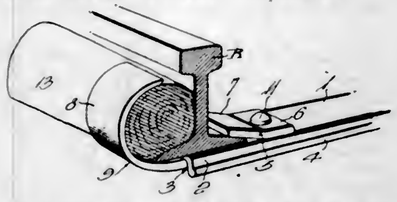
sition raised above the block, a handle on the end of the frame opposite said standard, and meat-engaging means carried by said frame.

1,474,297. LOADING APPARATUS FOR GASOLINE TANK CARS. WILLIAM T. SIMPSON, Wagoner, Okla. Filed Dec. 6, 1921. Serial No. 520,369. 5 Claims. (Cl. 137—21.)



1. A loading device for gasoline tank cars consisting of a valve casing in communication with an opening in the wall of the car and provided with lateral openings, said casing having its walls slotted to provide valve guides, and a valve having wings slidably fitted in said guides and operating means for communicating sliding movement thereto, the valve wings being of transversely expansible construction and having expanding means actuable by the wing operating devices.

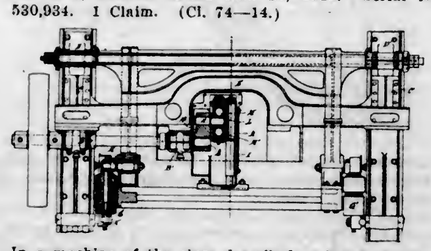
1,474,298. METALLIC RAILWAY TIE. CHARLES C. STEEL, Williamsport, Pa. Filed Feb. 12, 1923. Serial No. 618,620. 3 Claims. (Cl. 238—6.)



1. In a metallic railway tie, a straight body member provided on its lower side with a longitudinally extending channel, a separate rail engaging lug disposed upon the upper side of said body member and located adjacent but spaced slightly inwardly from one end of the latter to engage the inner base flange of a rail, a separate J-shaped member having its straight portion disposed in the end portion of said channel and its curved portion extending beyond the end of said body member and above

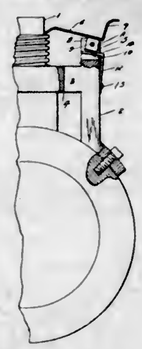
the latter, means for securing said lug and said J-shaped member to said body member, the curved portion of said J-shaped member being spaced from said lug, and a wedge to fit against the inside of the curved portion of said J-shaped member to hold a rail in engagement with said lug.

1,474,299. DEVICE FOR DRIVING STONE AND MARBLE SAWING BLADES. EDMOND STOCQ, Neuilly-sur-Seine, France. Filed Jan. 21, 1922. Serial No. 530,934. 1 Claim. (Cl. 74—14.)



In a machine of the class described, a frame mounted for rocking movement, a driving shaft having fixed bearings and a crank, a second frame pivotally connected with the rocking frame, yieldable means active to progressively resist relative angular movement of the rocking frame, a guide element attached to the second frame, a box mounted for reciprocating movement in the guide element, a shoe mounted on the wrist of the crank and also mounted for reciprocating movement in the shoe at right angles to the plane of movement of the box in the guide element, and yieldable means active to progressively resist movement of the shoe in the box in either direction.

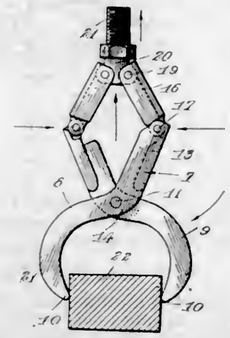
1,474,300. ANCHOR FOR GREASE CUPS OR PLUGS. LAMONT H. STROUD, Sheridan, Wyo. Filed Apr. 17, 1922. Serial No. 554,335. 1 Claim. (Cl. 184—48.)



In combination with a bearing and a grease cup detachably secured thereto, an upright secured to the bearing, means carried by said upright and engaging the cup to hold the same against movement relative to the bearing, an element pivoted to said supporting member and adapted to be moved into and out of engagement with the cup closure, ears formed on said member and having angularly related faces, a flat spring secured to the supporting member and having a portion bent and adapted to be engaged by the respective angularly related faces of said ears, whereby to hold the locking element in operative or inoperative position.

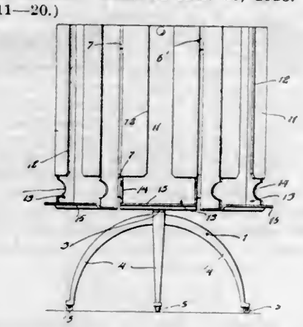
1,474,301. ARTIFICIAL HAND. HUBERT THERRIEN, Montreal, Quebec, Canada. Filed June 13, 1921. Serial No. 477,235. 1 Claim. (Cl. 3—12.)

The herein described artificial hand comprising a pair of gripping members, one of which is bifurcated and between which the other gripping member extends, shanks extending from the gripping members and fitting one within the other, said gripping members being pivoted to one



another at their juncture with the shanks, a plate, and attaching means for said plate, and links connecting the shanks and the plate and abutting with the ends of the shanks, substantially as and for the purposes set forth.

1,474,302. REVOLVING BREAD RACK. JAMES W. THOMPSON, Wichita, Kans. Filed Feb. 10, 1920, Serial No. 357,567. Renewed Mar. 23, 1923. 1 Claim. (Cl. 211—20.)

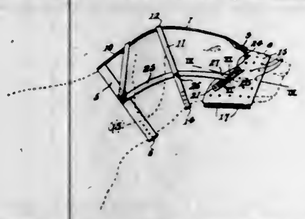


A revolving bread rack comprising a stand consisting of a vertically arranged tube, a coupling including curved legs designed to connect the lower end of said tube, castors carried by the lower end of the legs, a frame rotatably supported on said stand consisting of a pair of ring-shaped members, a sleeve rotatably mounted on said tube and rotatable arms having their lower ends connected thereto, said ring-shaped members connected to the outer ends of the rotatable arms and vertical strips connecting said ring-shaped members together, a plurality of detachable containers supported on said frame and bolted to said rings, each container being made in the form of an elongated box having a slot in the front face thereof and a transversely arranged opening in the lower end of said face through which the bread is removed, the sides of the containers being recessed adjacent the lower ends to facilitate the passage of the loaves and the lower end of the container being provided with an extension which acts in the capacity of a shelf.

1,474,303. DOG MUZZLE. JOE VERES, Lloydell, Pa. Filed Apr. 18, 1923. Serial No. 632,940. 1 Claim. (Cl. 119—130.)

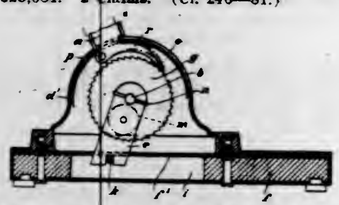
In a muzzle of the type described, a mouth encircling portion having ventilating opeings formed therein, crossed toggle members pivotally connected at their inner ends to the free ends of said mouth encircling portion, said

toggle members having slots at their outer ends adapted for slidably engaging rivets carried by said mouth en-



circling portion, a neck encircling strap, a head encircling strap, and means for connecting said neck and head straps and said mouth encircling portion.

1,474,304. ELECTRIC TABLE LAMP WITH BRAKE-CONTROLLED SUPPORTING ARMS FOR INCANDESCENT LAMPS. GEORG WEBER, Egelsbach, Germany, assignor to The Firm C. & W. Bohnert, Frankfort-on-the-Main, Germany. Filed Dec. 29, 1921. Serial No. 525,684. 2 Claims. (Cl. 240—81.)



1. An improved electric table lamp with brake-controlled adjustable supporting arm comprising, in combination a pivoted supporting arm carrying an electrolier a hollow lamp support in the form of an upright casing, a horizontal axle revolubly mounted in said support, a ratchet wheel keyed to said axle, an arc shaped plate on said supporting arm, friction means cooperating with the ratchet wheel, and guided in said support, and a pawl on the inner end of said supporting arm and operatively engaging with said ratchet wheel.

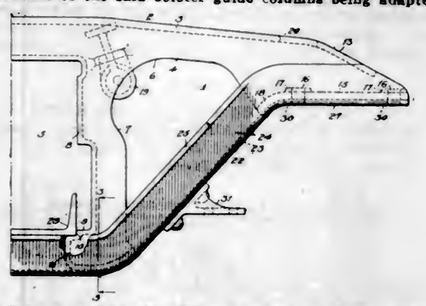
1,474,305. BOTTLE CARRIER. CLARENCE B. WILLIAMS, St. Petersburg, Fla. Filed Oct. 21, 1922. Serial No. 596,059. 4 Claims. (Cl. 215—100.)



1. A bottle or similar holding and conveying device comprising opposed jaws, angle arms extending from the ends of the jaws, a coiled handle connected with the arms and designed to normally move the arms of the opposed jaws away from each other to spread the jaws to open position, and slidable means on said arms for forcing the same together and bringing the jaws to closed position.

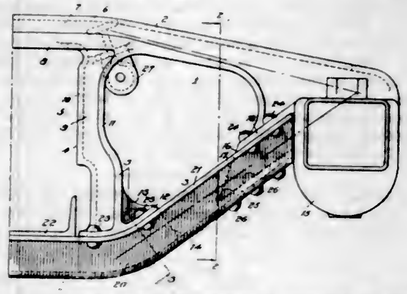
1,474,306. TRUCK SIDE FRAME. CLARENCE H. WILLIAMSON, Altoona, Pa. Filed May 1, 1920. Serial No. 378,169. 8 Claims. (Cl. 105—204.)

1. In a truck side frame, the combination with a compression member comprising a cast beam furnished with integral bolster guides or strut columns, of a tension member comprising a channel shaped beam, portions of the said bolster guide columns being adapted



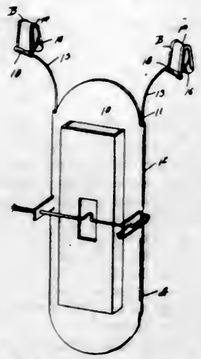
to have a wedging fit within the channel of the tension member, and means for connecting said members adjacent the ends thereof.

1,474,307. TRUCK SIDE FRAME. CLARENCE H. WILLIAMSON, Bellwood, Pa. Filed May 1, 1920, Serial No. 378,170. Renewed June 21, 1922. Serial No. 569,875. 7 Claims. (Cl. 105—204.)



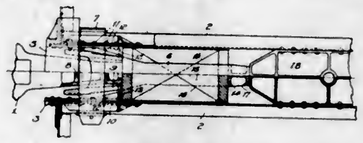
2. A truck side frame comprising a compression member provided with integral journal boxes, a flanged tension member, and means for connecting the said compression member adjacent the said journal boxes to the flanges of the said tension member.

1,474,308. FASTENING FOR LOSS-PREVENTING DEVICES. OSCAR N. WIMBERLY, Jacksonville, Fla. Filed July 29, 1922. Serial No. 578,350. 3 Claims. (Cl. 24—3.)



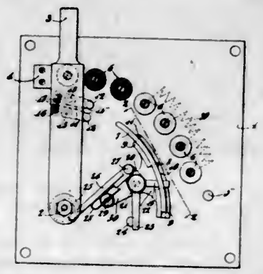
1. In a device of the class described, a securing plate, an arm constituting a reinforcement therefor, said arm being extended and deflected away from the plate, and a device carried by said arm adjacent its distal end to detachably engage an article of clothing.

1,474,309. DRAFT RIGGING. IRA O. WRIGHT, Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 15, 1920. Serial No. 365,877. 4 Claims. (Cl. 213—56.)



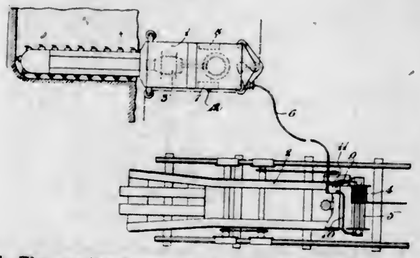
4. In a draft rigging, the combination with draft sills, of a yoke, a coupler connected thereto, a cushioning mechanism, cheek plates connected to the inner faces of said sills, each of said cheek plates including a web and an inwardly extending flange adapted to be engaged by the forward portion of the cushioning mechanism, longitudinally arranged reinforcing ribs uniting said web and flange, and an outer U-shaped member connected to the exterior face of each sill, said U-shaped members each having a relatively wide outwardly projecting flange reinforced at one end to form a key bearing surface, said reinforced end being disposed in transverse alinement with the key engaging face of the adjacent cheek plate.

1,474,310. ELECTRIC CONTROL SYSTEM. CHARLES W. WYMAN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed May 28, 1919. Serial No. 300,455. 23 Claims. (Cl. 200—14.)



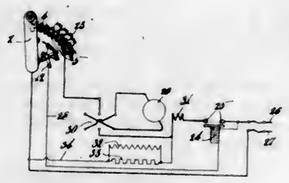
2. In an electric controller, a controller arm, circuit closing means successively opened and closed thereby as said arm moves in one direction and means for retaining said closed position when moved in the opposite direction.

1,474,311. MINING APPARATUS. CHARLES W. WYMAN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed July 25, 1919, Serial No. 313,206. Renewed Oct. 16, 1923. 12 Claims. (Cl. 268—8.)



1. The combination with a mining machine, of an electric motor on said machine, electric controlling mechanism on said machine including a movable controller member, resistance means controlled by said controller member, a line circuit making and breaking mechanism controlling current supply to said motor and disposed between the latter and the line, a control circuit for said line circuit making and breaking mechanism, and a switch on said machine controlling the flow through said control circuit and controlled by said controller member.

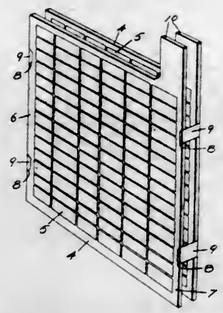
1,474,312. ELECTRIC CONTROL MECHANISM. CHARLES W. WYMAN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Sept. 5, 1919. Serial No. 321,953. 24 Claims. (Cl. 172—179.)



1. In an electric controller, a movable controller member, a contact movable therewith, cooperating contacts adapted to be successively engaged thereby, and means forming a lost motion connection between said member and said first-mentioned contact.

13. In an electric controller, a movable controller member of conducting material, a contact movable therewith and electrically connected thereto, a cooperating contact engaged thereby, and means forming a lost motion connection between said member and said first mentioned contact.

1,474,313. STORAGE BATTERY. JAMES M. ALLEN, St. Louis, Mo., assignor to James M. Allen, Fred P. Smith, and Frederick D. Tucker, as trustees for The Smith-Allen Battery Company, St. Louis, Mo. Filed Nov. 29, 1920. Serial No. 426,963. 2 Claims. (Cl. 204—29.)

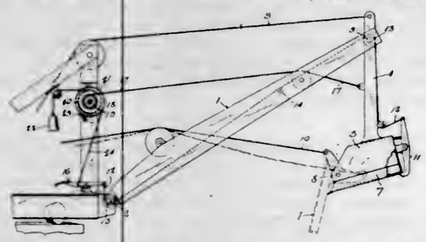


1. A storage battery comprising a plurality of positive and negative plates, a plurality of bars for connecting the positive plates together in pairs along their vertical edges, strips extending along the vertical edges of the negative plates for preventing contact with the bars when the negative plates are placed in position, and a plurality of separators interposed between the positive and negative plates.

1,474,314. EXCAVATOR. PAUL BURKE, Green Bay, Wis. Filed Nov. 27, 1922. Serial No. 603,536. 4 Claims. (Cl. 214—146.)

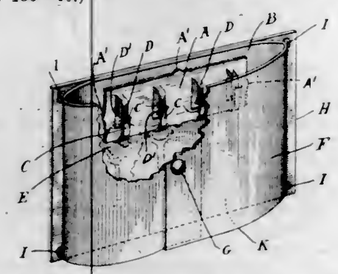
1. A device of the class described comprising a boom, a dipper handle pivotally mounted thereon and carrying

a dipper, a hoisting line attached to the dipper handle, a dipper door pivotally connected to the dipper, a drag



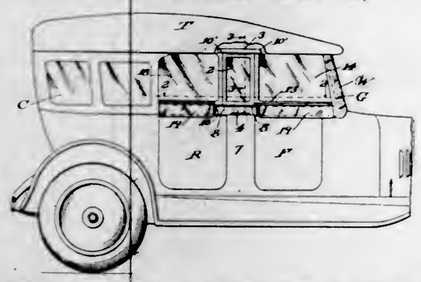
line operatively connected to the dipper door, a latch, and means for simultaneously releasing the latch and preventing motion of the dipper handle.

1,474,315. KEY HOLDER. JOSEPH CARMEL, New York, N. Y., assignor to Frank M. Ashley, New York, N. Y. Filed Mar. 24, 1921. Serial No. 455,258. 9 Claims. (Cl. 150—40.)



9. A key holder comprising a metal strip having an arm offset from the strip and an upwardly extending hook contacting said arm and adapted to hold a key.

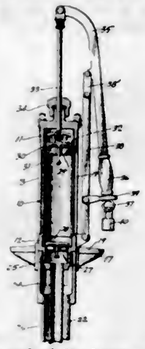
1,474,316. DEMOUNTABLE SIDE INCLOSURE. LEONARD H. CLARK, Los Angeles, Calif. Filed Dec. 22, 1922. Serial No. 608,476. 6 Claims. (Cl. 296—45.)



1. A side inclosure for an automobile comprising, in combination, a central fixed window panel, a base piece adapted to be secured upon the intermediate buttress between the front and rear doors in one side of an automobile and on which said panel is mounted, and a forwardly extending glass window and a rearwardly extending glass window each mounted on said base and adapted to be swung to open and closed positions as to the intermediate panel.

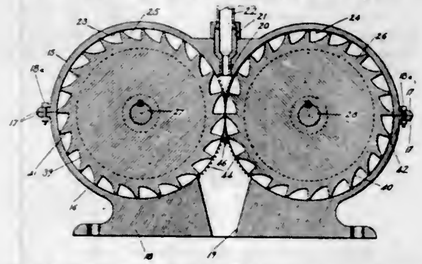
1,474,317. PUMP. JOHN H. COLLINS, Los Angeles, Calif.; Lottie Payne Collins administratrix of said John H. Collins, deceased. Filed July 21, 1921. Serial No. 486,345. 4 Claims. (Cl. 103—202.)

1. A pump comprising a body, a piston movable in the body and including a rod extending from the body, a lever pivotally connected to the outer end of the piston rod, a rod pivotally connected to the body, a link pivotally connecting the second rod with said lever, an eye



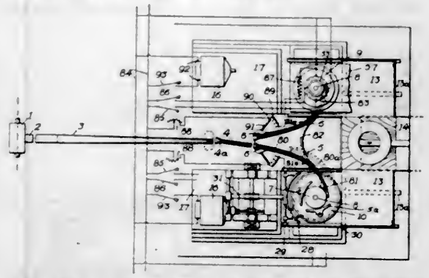
formed on the free end of the lever, and a keeper pivoted on the second rod and adapted to pass over said eye so that when a lock engages the eye, the keeper will be locked to the lever.

1,474,318. DUPLEX TURBINE MOTOR. WILLIAM E. CONNESS, Los Angeles, Calif. Filed July 14, 1922. Serial No. 574,884. 1 Claim. (Cl. 25.3—16.5.)



In a fluid turbine, a pair of wheels disposed in the same plane and having their peripheries arranged in close proximity to each other, each of said wheels being provided with peripheral blades and annular recesses at opposite sides thereof, and ring gears secured to the wheels within said recesses so that the gears of one wheel constantly mesh with the gears of the other wheel.

1,474,319. METHOD OF HANDLING HOT METAL STRIP AND APPARATUS THEREFOR. FRED B. CROSBY, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 29, 1919. Serial No. 348,149. 19 Claims. (Cl. 242—80.)



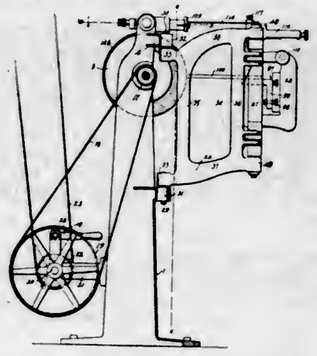
1. In a strip rolling mill, the combination with rolling and guiding means, and a reel for forming the strip into ribbon coils, of means coacting with said reel for removing a completed coil therefrom and delivering it to a conveying mechanism.

1,474,320. PEDAL PAD. BARTHOLD DE MATTIA, Clifton, N. J. Filed Aug. 3, 1921. Serial No. 489,491. 3 Claims. (Cl. 74—81.)



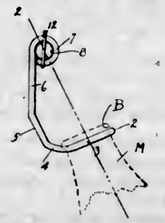
1. In combination, a pedal pad, a looped strap engaging one end of the pad and the pedal, a clamping plate engaging the opposite end of the pad, and means to connect the free ends of the looped strap to the clamping plate.

1,474,321. GRINDING MACHINE. PETER DE MATTIA, Clifton, N. J. Filed Aug. 6, 1921. Serial No. 490,392. 11 Claims. (Cl. 51—100.)



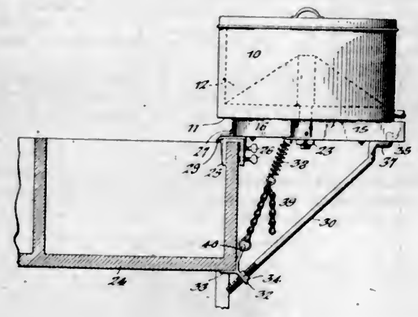
1. In a grinding machine, in combination, a grinding element, an articulated sectional work carrier pivotally supported and movable in a horizontal plane with relation to the grinding element, and independent adjustable tension devices located in vertical alignment connecting two members of the articulated work carrier.

1,474,322. BOTTLE HOLDER. CHARLES A. F. DUCORRON, Los Angeles, Calif., assignor to Ducorron-Rich Engineering Company, Los Angeles, Calif., a Partnership consisting of Charles A. F. Ducorron and Frank S. Rich, both of Los Angeles, Calif. Filed Sept. 1, 1922. Serial No. 585,631. 5 Claims. (Cl. 215—100.)



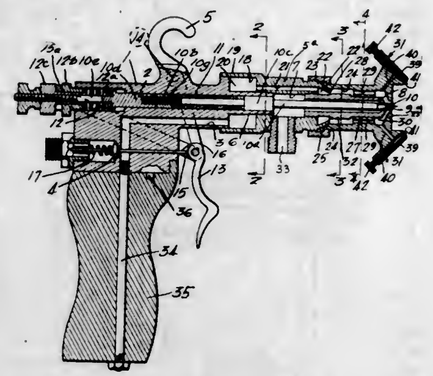
1. A milk bottle holder and carrier consisting of an instrument having a substantially semicircular yoke portion proportioned to slidably fit the neck of a bottle and to abut against the usual top rim or bead thereof, diametrically opposite ends of the yoke being extended in parallel bars adapted to slide along the neck of a bottle and which have outwardly and upwardly divergent portions to clear the bead of a bottle, said portions being extended into shanks, and a handle connecting the shanks.

1,474,323. MOUNTING FOR CENTRIFUGAL CLOTHES WRINGERS. JOHN F. GEIBEL, Buffalo, N. Y. Filed Jan. 21, 1922. Serial No. 530,971. 11 Claims. (Cl. 68—35.)



11. The combination of a supporting member adapted for attachment to a stationary object, a brace-member adapted for attachment at its lower end to said object at a point below said supporting member, a centrifugal wringer having a plurality of bearing points, one of said points being freely movable on said supporting member and having a cam lip adapted to ride thereon to elevate the wringer under lateral vibration thereof, other bearing points of said wringer being connected to said supporting member and the upper end of said brace member, respectively, and a restraining spring tending to hold the wringer in position upon said members.

1,474,324. AIR BRUSH. BIRCHARD E. HOLTON, Los Angeles, Calif. Filed Oct. 6, 1921. Serial No. 505,733. 13 Claims. (Cl. 91—45.)



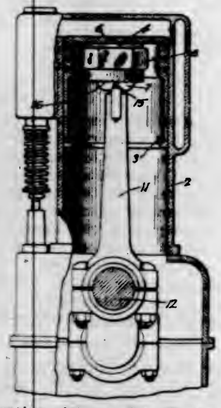
6. An air brush comprising a body portion, a reduced axial extension projecting forwardly from said portion, an intermediate member with an axial bore having screw threaded engagement with said extension, an annular recess in one end of said member surrounded by a peripheral flange, said flange engaging said body portion and forming an annular settling chamber around said extension, an inner nozzle projecting forwardly from the opposite end of said bore, a tapering extension projecting forwardly from the corresponding end of said member, said tapering extension forming a distributing chamber

with a central opening, a conduit leading from the upper portion of said annular settling chamber to said distributing chamber, said inner nozzle projecting forwardly through said central opening, a passageway from said distributing chamber along the outside of said inner nozzle, a distributing enlargement formed on said inner nozzle in front of said passageway, and a nozzle cap rotatably journaled outside of said inner nozzle and seated upon said tapering extension.

10. An air brush having a straight spray opening in a nozzle cap, fan spray nozzles supported by said nozzle cap, said nozzles fed from common conduits, means for independently closing or opening any one of said fan spray nozzles, and means for varying the flow of liquid to be acted upon by said fan nozzles.

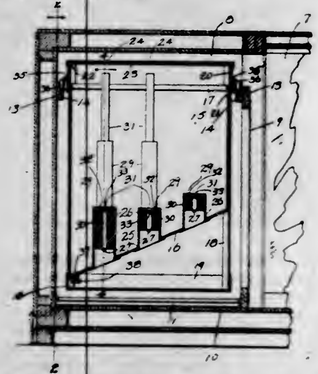
13. An air brush comprising a nozzle, and settling means within said air brush for separating foreign matter from the air before the same passes through said nozzle.

1,474,325. REVOLVING PISTON. THEOPHILUS KALLMEYER, Santa Paula, Calif. Filed May 5, 1922. Serial No. 558,582. 6 Claims. (Cl. 74—108.)



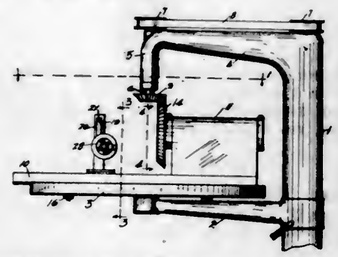
1. A reciprocating piston and a pitman rod operatively connected thereto by a ball and socket to reciprocate the piston, and ratchet means swinging on an axis of the ball providing for rotation of the piston on its own axis.

1,474,326. CONTAINER. CHARLES A. KETTERER, East St. Louis, Ill. Filed Apr. 16, 1923. Serial No. 632,578. 5 Claims. (Cl. 62—37.)



1. A container comprising a brine and refrigerant chamber having an inclined bottom, angle irons secured to the outside of said chamber and projecting above and below said chamber, an apron secured around said angle irons at their upper ends, said apron surrounding the upper edge of the chamber and spaced apart therefrom by said angle irons, a perforated lid carried by said apron, and an auxiliary drip-pan located beneath said chamber and secured to the bottom of the angle irons, said drip-pan having a greater superficial area than the chamber.

1,474,327. THREADING MACHINE FOR BOLTS, PIPES, ETC. ALBERT L. LEFFINGWELL, Los Angeles, Calif., assignor of one-half to Eli Herring, Los Angeles, Calif. Filed Dec. 22, 1920. Serial No. 432,549. 1 Claim. (Cl. 10—89.)



In combination, a drill press including a work support, a standard at one side of the support, an arm of L-shaped form extending laterally from the standard, a spindle journaled in the vertical portion of the arm, a second spindle journaled in the standard, means for operatively connecting the spindles at a point exteriorly of the arm and standard, a gear fixed to the lower end of the first spindle, a threading die upon the work support including a bevel gear meshing with the first gear, and a work support slidable on the first work support.

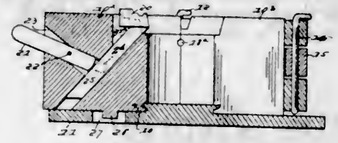
1,474,328. HOSE. GROVER B. MELLUS, Los Angeles, Calif. Filed July 28, 1922. Serial No. 578,082. 2 Claims. (Cl. 2—23.)



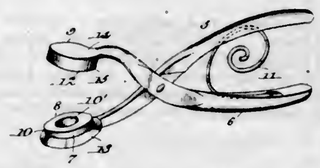
1. A sock having a bead formed at its open end extending along the edge thereof, and a slot extending downwardly from the open end and adapted to receive a portion of a garter clasp for the purpose described.

1,474,329. GLASS MOLD. JOHN G. MORITZ, Glassport, Pa. Filed May 23, 1922. Serial No. 563,057. 3 Claims. (Cl. 49—73.)

1. A molding apparatus of the type indicated having a section or mold body and a ring or cap provided in their contact faces with complemental registering channels combining to form a handle mold in communication with the interior of the receptacle mold, and means for upwardly deflecting the molded handle after the completion of the molding operation and consisting of a lifter block movable with relation to and carried by one of the mold sections.

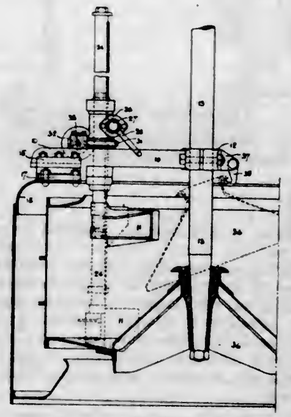


1,474,330. CAP SPREADER. ADAM PH. QUENZER, Brooklyn, N. Y. Filed Mar. 31, 1922. Serial No. 548,462. 1 Claim. (Cl. 81—15.)



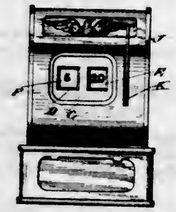
A bottle cap re-shaping device comprising a female die section, a male die section co-acting with the first said section and provided with a central opening, a pair of pivotally connected levers respectively supporting said die sections for movements toward or away from each other and formed integral therewith, the male section having an annular vertical wall and a flared base wall, the latter merging into the former, the female section including an annular wall adapted to embrace the annular wall of said male section, the depth of said annular vertical wall being co-extensive with the vertical wall of said female section.

1,474,331. CENTRIFUGAL MACHINE. ANDREW R. ROBERTSON and ALEXANDER FRASER DUNSMORE, Glasgow, Scotland. Filed Nov. 10, 1921. Serial No. 514,324. 3 Claims. (Cl. 210—70.)



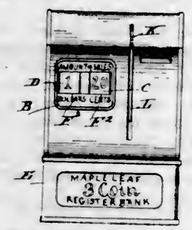
1. The combination with a centrifugal machine having a spindle susceptible to oscillation, of a plough, and a plough-supporting arm extending from the spindle and engaging the spindle to partake of its oscillation, and means for flexibly anchoring said supporting arm against rotation with the spindle.

1,474,332. SINGLE-COIN-REGISTERING BANK. ARTHUR E. JACOBS, Cleveland Heights Village, Ohio. Filed Sept. 16, 1920. Serial No. 410,794. 6 Claims. (Cl. 235—100.)



6. The combination in a coin recording device, a casing, a tilting coin chute therein, an arm operating in conjunction with a coin for moving said chute, an actuating member for said arm, said actuating member provided with a projecting lug, a bell in said casing and a bell clapper having a pivoted and cranked extremity, said lug on said actuating member engaging said cranked extremity to sound said bell when said actuating member is moved to tilt said chute.

1,474,333. MULTIPLE-COIN-REGISTERING BANK. ARTHUR E. JACOBS, Cleveland Heights Village, Ohio. Filed Sept. 16, 1920. Serial No. 410,795. 7 Claims. (Cl. 235—100.)



5. In a coin registering bank, a casing provided with a coin receiving opening and a coin discharging opening spaced therefrom and provided with spaced shoulders upon its inner surface, a coin chute rotatable within said casing, and a spring actuated plunger in said coin chute.

1,474,334. HAIR-CURLING DEVICE. JOSEF KRYSZTOFIAK, New York, N. Y., assignor, by direct and meane assignments, to l'Aureole Co., Inc., New York, N. Y., a Corporation of New York. Filed Mar. 22, 1923. Serial No. 626,951. 7 Claims. (Cl. 132—36.)



2. A hair curler, comprising a tubular receptacle to receive the hair, an electric unit surrounding one end of the receptacle, a heat insulated handle at the other end of the receptacle, and a clamp secured to the receptacle, adapted to secure the hair to be curled therein.

1,474,335. AMUSEMENT APPARATUS. PETER A. LALLE and CLAUDE F. FOWLER, Buffalo, N. Y., assignors of one-third to Sebastian L. Petrino, Buffalo, N. Y. Filed Nov. 7, 1921. Serial No. 513,295. 40 Claims. (Cl. 104—60.)

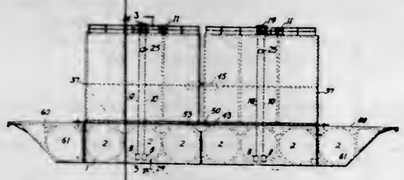
5. An amusement apparatus, comprising a track divided into three sections, means for electrically con-

necting two of said sections, a passenger unit having a motor in electrical connection with said two track sec-



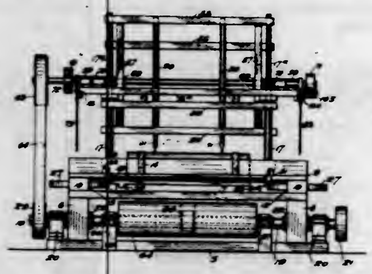
tions, said passenger unit being adapted to move along the third section by momentum in one direction and by gravity in the other direction.

1,474,336. SECTIONAL FLOATING DRY DOCK. EUGENE MCLEAN LONG, New York, N. Y., assignor of one-half to Herbert M. Knight, Montclair, N. J. Filed Jan. 17, 1919. Serial No. 271,593. 9 Claims. (Cl. 114—46.)



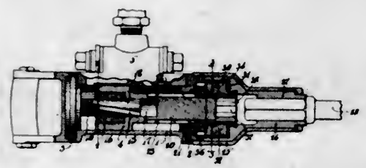
1. A pontoon for dry docks having a plurality of parallel buoyancy chambers of polygonal cross section, adjacent chambers of which are formed with a common wall, and a plurality of distinct flotation chambers positioned between successive buoyancy chambers and at the top and bottom of the common walls, said flotation chambers being provided with air and water inlet and exhaust pipes, whereby the flotation chambers may be controlled independently of the buoyancy chambers.

1,474,337. WOOD-CUTTING MACHINE. ALBERT H. CARRIER, Asheville, N. C., assignor of one-half to Edwin W. Grove, St. Louis, Mo. Filed Apr. 11, 1922. Serial No. 551,615. 12 Claims. (Cl. 144—162.)



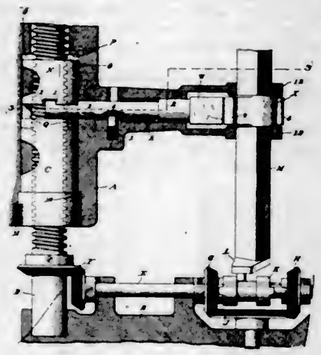
1. A wood cutting machine of the class specified, having walls defining a cutting space for receiving and holding a number of logs, and longitudinally reciprocating cutting mechanism having cutting blades at opposite sides transversely movable across said space and operating between and alternately cutting slices from the lower portions of the logs by draw-cut actuation.

1,474,338. ROTATING MECHANISM FOR PERCUSSIVE TOOLS. ELMER G. GARTIN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 20, 1919. Serial No. 346,414. 4 Claims. (Cl. 121—7.)



1. In a percussive tool comprising a cylinder and a percussive piston, a tool actuated by said piston, means to impart an oscillating motion to said piston comprising a fixed rifle bar cooperating with said piston, and means to transform said oscillating motion to an intermittent rotary motion and impart the latter to the tool.

1,474,339. AUTOMATIC THROW-OUT FOR POWER FEED. DAVID C. KLAUSMEYER, Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio, a Corporation of Ohio. Original application filed Nov. 17, 1920, Serial No. 424,800. Divided and this application filed Apr. 8, 1922. Serial No. 550,876. 13 Claims. (Cl. 192—129.)



1. A device of the nature disclosed combining a screw; a load-free member meshing with said screw; a load-carrying member also meshing with said screw and adapted by thread-wear or failure to become varied in distance from said load-free member; power-driven means for effecting a relative rotation between said screw and said members simultaneously; and means made operative through a variation in said distance for throwing out of action said power-driven rotation-effecting means.

Patents Nos. 1,474,340 to 1,475,161.

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OF THE
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Issue of November 20, 1923.

Trade-Marks	275—No.	176,105 to No.	176,376, inclusive.
Labels	53—No.	26,545 to No.	26,597, inclusive.
Prints	44—No.	6,971 to No.	7,014, inclusive.
Designs	75—No.	63,276 to No.	63,350, inclusive.
Patents	822—No.	1,474,340 to No.	1,475,161, inclusive.
Total	1269		

Proposed Changes in Patent Office Building.

DEPARTMENT OF THE INTERIOR,
Washington, D. C., September 17, 1923.

Brig. Gen. HERBERT M. LORD,
Director of the Bureau of the Budget.

DEAR GENERAL LORD: I have just been to the Patent Office with First Assistant Secretary Finney and have inspected the Patent Office Building from cellar to garret.

I am so impressed with the vital necessity of relieving the Patent Office by providing more room to permit it to perform the duties required by statute and actually paid for by inventors that I feel compelled to ask that you or your assistant, or both, inspect the Patent Office *before* next year's estimates are acted upon by the Bureau of the Budget.

The Patent Office Building is taxed beyond its capacity. Every nook and corner of the building is now used. The main entrance on Ninth Street and the ends of halls are partitioned off and these and open corridors are already used for office purposes. In fact many clerks and highly paid technical Examiners are occupying space which is not fit for their use. I have carefully considered the tentative plans with Commissioner Robertson and can not too strongly urge improvements in the building which will change halls adapted merely for exhibition purposes into modern rooms suitable for offices, provide economically accessible storage space for copies of patents (200,000 being *sold* for $20,000 cash monthly), and shift the public service facilities from the upper floors to the street floor.

A committee appointed by the superintendent of the State, War, and Navy Buildings (having charge of the Patent Office Building) has been preparing plans and estimates to submit for the changes suggested by the Commissioner.

An inspection of the Patent Office Building and a review of the new plans will, I feel confident, cause you to approve the estimates for the changes.

Respectfully,

HUBERT WORK,
Secretary.

ADJUDICATED PATENTS.

(D. C. Ohio.) Luttringhaus design patents, Nos. 48,560, 51,144, 53,309, 53,454, 55,187, 55,479, and 55,480, for aluminum articles, *Held* invalid. *Aluminum Goods Mfg. Co.* v. *Buckeye Aluminum Co.*, 291 Fed. Rep., 806.

(D. C. Ohio.) Bryan patent, No. 1,153,481, claims 2, 5, and 7, and Bryan patent, No. 1,153,482, for vehicle wheels with demountable rims, *Held* invalid. *Standard Parts Co.* v. *Cleveland Welding & Mfg. Co.*, 291 Fed. Rep., 820.

(D. C. Ohio.) Hug patent, No. 1,421,237, for road subgrader, *Held* invalid and not infringed if valid. *Hug* v. *Lakewood Engineering Co.*, 291 Fed. Rep., 892.

ADVERSE DECISIONS IN INTERFERENCE.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,309,409, J. B. Henderson, Gyro compass, decided October 9, 1923, claims 2 and 5.

Pat. 1,341,059, C. N. Wisner, Picker head, decided March 3, 1923, claims 1, 2, 3, 4, and 5.

Pat. 1,393,728, S. B. Williams, jr., Telephone-exchange system, decided October 5, 1923, claims 1, 2, 4, 11, and 12.

Pat. 1,394,825, F. C. Hahn, Auxiliary device for talking machines, decided October 28, 1923, claims 1 and 5.

Pat. 1,412,070, W. C. Stewart, Sole-evening machine, decided October 13, 1923, claims 21 and 23.

Pat. 1,430,941, A. Burckard, Press for making plastic products, decided October 13, 1923, claims 10, 11, 12, 14, 15, and 17.

Condition of Applications Under Examination at Close of Business November 9, 1923.

(Total number of applications awaiting action, excluding Trade-Mark Division, 70,823; Trade-Mark Division, 2,715; Oldest new case, Jan. 11, 1923; oldest amended, Jan. 12, 1923. The dates given are 1923.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application awaiting office action.	Oldest amended application awaiting office action.	No. of applications awaiting action.
		New.	Amended	
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plant Husbandry; Plows; Planting; Scattering Unloaders.	Feb. 19	Feb. 12	1,303
128	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Mar. 5	Feb. 24	1,312
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	May 16	Apr. 19	1,173
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Feb. 19	Apr. 20	1,507
187	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Jan. 22	Jan. 31	1,519
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Feb. 5	Apr. 2	1,846
312	7. JARBOE, C. D., Games and Toys; Optics; Photography	Mar. 10	Mar. 14	2,626
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Apr. 26	May 25	1,758
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	Mar. 22	Sept. 14	851
235	10. BARTHOLOMEW, J. A., Motor Vehicles; Land Vehicles—Animal Draft Appliances, Bodies and Tops, Dumping, Wheel Substitutes.	Feb. 26	May 23	1,485
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skin, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	May 24	Apr. 10	878
322	12. PIERCE, P. F., Machine Elements	Mar. 8	Feb. 26	1,351
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	Mar. 14	June 13	1,203
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Feb. 5	Oct. 5	1,074
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Jan. 25	Jan. 12	2,007
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Feb. 9	Feb. 9	2,628
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Association or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Feb. 5	May 18	1,518
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	Jan. 11	Feb. 10	2,002
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	July 19	Aug. 10	613
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Dentistry; Locks and Latches; Safes; Undertaking.	Apr. 10	Apr. 2	1,474
212	21. THURBER, W. L., Winding and Reeling; Textiles—Braiding, Netting, or Lace Making, Cloth Finishing, Fiber Preparation, Knitting, Spinning, Twisting or Twining, Weaving	Jan. 24	July 16	999
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Mar. 21	Mar. 23	555
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	Jan. 22	Jan. 12	747
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Feb. 21	Apr. 2	1,207
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Cutlery; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Gas Separation	May 28	May 28	1,001
105	26. HODGES, J. B., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Feb. 3	Jan. 25	992
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Feb. 12	Mar. 15	1,406
225	28. BENSON, A. R., Internal-Combustion Engines	May 15	Apr. 25	1,306
147	29. MORRIS, B. N., Abrading; Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Feb. 1	Apr. 25	1,311
352	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Mar. 5	Aug. 20	1,849
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar, Starch, and Carbohydrates; Concentrating Evaporators.	Feb. 19	Feb. 19	1,602
120	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Jan. 18	Jan. 13	1,348
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	Feb. 26	Feb. 10	1,585
301	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	Mar. 26	May 1	924
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	May 22	May 8	892
265	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Apr. 23	Mar. 9	1,993
107	37. TAYLOR, E. D., Electricity, Circuit Makers and Breakers	Mar. 1	Feb. 23	1,825
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Jan. 27	Feb. 16	1,834
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Jan. 19	Jan. 23	1,249
271	40. OBERLIN, J. J., Baggage; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Feb. 5	June 19	2,028
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Mar. 24	May 1	1,012
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Feb. 15	Mar. 1	1,745
382	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Electricity, Medical and Surgical; Fire Extinguishers; Medicines; Sewerage; Surgery; Liquid Separation or Purification.	Mar. 1	Feb. 7	1,815
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	Mar. 7	May 25	1,157
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Apr. 14	Mar. 1	1,572
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Mar. 28	Apr. 24	1,418
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time-Controlling Mechanism.	Jan. 22	Apr. 24	1,208
116	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Jan. 18	Jan. 27	2,384
383	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	Mar. 10	Apr. 18	568
102	DESIGNS: C. O. MARKHAM (Acting)	June 20	Aug. 4	1,166
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR.	Trade-Marks, Sept. 4	Oct. 3	2,661
		Labels and Prints, Oct. 27	Nov. 2	54

DECISIONS IN PATENT AND TRADE-MARK CASES.

U. S. Circuit Court of Appeals—Sixth Circuit.

FOX TYPEWRITER CO. *v.* CORONA TYPEWRITER CO.
CORONA TYPEWRITER CO. *v.* FOX TYPEWRITER CO.

Decided February 7, 1922; on application for rehearing June 28, 1922.

[282 Fed. Rep., 502.]

1. PATENTS—REISSUE 13,934 INSUFFICIENT AS BASIS FOR INJUNCTION AGAINST DEVICE NOT INFRINGING ORIGINAL PATENT.

Claim 28 of the Rose reissue patent, No. 13,934, for a typewriter with a folding carriage, which narrows the original claim to a typewriter with a standard keyboard, but omits the limitation of the original patent to a carriage folding over the keyboard, will not support an injunction against a device which only infringes by reason of the omission of this limitation.

2. SAME—NARROWING LIMITATION IN REISSUE DOES NOT JUSTIFY BROADENING IN DIFFERENT RESPECT.

A narrowing limitation in claim of reissued patent can not justify a broadening of the claim in a different respect when it serves to bring within the monopoly after many years a structure which otherwise would have been free.

3. SAME—REISSUE 13,935, FOR SEPARABLE ESCAPEMENT MECHANISM FOR TYPEWRITERS, INVALID AS DOUBLE PATENTING.

Claims 19, 20, 22, and 23 of the Rose reissue patent, No. 13,935, for separable escapement mechanism for typewriter with folding carriage, *Held* invalid as double patenting in that they cover combination of separable escapement with any folding feature, while original patent was for combination of the folding feature with any separable escapement.

4. SAME—REISSUE 13,935, CLAIMS 8 AND 10, FOR SEPARABLE ESCAPEMENT MECHANISM FOR TYPEWRITERS, HELD INVALID.

Claims 8 and 10 of the Rose reissue patent, No. 13,935, for separable escapement mechanism for typewriter with folding carriage, *Held* invalid as either double patenting or lacking in invention.

5. SAME—1,121,094, FOR FOLDING TYPEWRITER WITH RIBBON MECHANISM ON CARRIAGE, HELD LACKING IN INVENTION.

The Hazen patent, No. 1,121,094, for a folding typewriter with the ribbon mechanism on the folding carriage, *Held* invalid for want of invention in view of the prior art.

6. SAME—TYPEWRITER NOT INOPERATIVE, BECAUSE MANUAL ADJUSTMENT OF RIBBON NECESSARY.

That under a patent for a typewriter with the ribbon carried on the folding carriage and not disclosing any feeding mechanism it might have been necessary to adjust the ribbon manually would not have made it inoperative, so as to invalidate the patent.

7. SAME—TRANSFERRING RIBBON MECHANISM FROM STATIONARY TO FOLDING CARRIAGE NOT INVENTION.

Where in the prior art ribbon mechanisms of the same general type had been mounted on the carriage of a typewriter, and the ribbon had been mounted on a folding carriage, but without feeding mechanism, no invention was involved in transferring the ribbon mechanism from the stationary to the folding carriage.

8. SAME—MERE CONCEPTION OF SEPARABILITY IN CHAIN OF TYPEWRITER-RIBBON-DRIVING ELEMENTS LACKING IN INVENTION.

Where in the prior art separability in the chain of driving elements between the key lever and the folding carriage of a typewriter was shown, the mere conception of separability in the chain of ribbon-driving elements involved no invention.

9. SAME—1,121,097, FOR SEPARABLE RIBBON DRIVE FOR FOLDING TYPEWRITER, HELD VALID AS TO CLAIMS 19, 23, AND 41, AND INVALID AS TO 22, 25, 38, AND 56.

Claims 19, 23, and 41 of the Hazen patent, No. 1,121,097, for a separable ribbon drive for typewriter with a folding carriage, *Held* valid, but claims 23, 31, and 56 invalid for want of invention in view of the prior art.

10. SAME—1,064,372, CLAIM 18, FOR CENTERING DEVICE FOR TYPEWRITER CARRIAGE, INVALID FOR WANT OF INVENTION.

The Petermann patent, No. 1,064,372, claim 18, for a centering device to position typewriter carriage for folding, *Held* invalid for want of invention in view of the prior art.

11. SAME—NO PATENTABLE DIFFERENCE BETWEEN POSITIONING TYPEWRITER CARRIAGE FOR DIFFERENT PURPOSES.

There is no patentable difference between positioning a typewriter carriage for printing, as by tabulating mechanism, and positioning it for folding.

12. SAME—REISSUE 14,599, FOR FOLDING TYPEWRITER, HELD LACKING IN INVENTION.

The Petermann reissue patent, No. 14,599, claims 4, 21, 28, 29, 36, and 37, for a typewriter with a carriage folding at the rear of the frame, instead of forward, as in other folding typewriters, *Held* void for want of invention.

13. SAME—REISSUE 14,599 NOT RENDERED VALID BY INCLUSION OF COMMON ELEMENT.

The Petermann reissue patent, No. 14,599, claims 26, 33, and 34, is not rendered valid by the addition to an unpatentable combination of a device for locking folding typewriter carriage in place after its return to operating position and consisting merely of the common gravity engagement of complementary parts.

14. SAME—REISSUE 14,495, FOR FOLDING TYPEWRITERS, HELD VALID AND INFRINGED.

The Latta reissue patent, No. 14,495, for a typewriter, the carriage of which folds in quasi-telescopic fashion within the typewriter's frame, *Held* valid and to cover every typewriter having the inventor's characteristic two-part telescopically-compacting frame; also *Held* infringed.

15. SAME—PATENTEE'S FAILURE TO USE DOES NOT PREVENT SCOPE TO WHICH REASONABLY ENTITLED.

That the owner of a patent for a folding typewriter never made any machines thereunder, but held it merely to supplement its other patents and to completely monopolize any folding, can not prevent giving the claims of the patent the breadth to which they are reasonably entitled.

16. SAME—COSTS DIVIDED WHEN DEFENDANT NOT WHOLLY SUCCESSFUL ON APPEAL.

Where on appeal from a decree in a patent infringement suit defendant did not escape an injunction or an accounting, though the decree was modified in its favor, the costs should be divided equally between the parties.

17. SAME—DISCLAIMER REQUIRED AS TO VOID CLAIMS BEFORE DECREE.

A disclaimer of claims of a patent held void should be filed before decree for injunction and an accounting as to valid claims.

On application for rehearing.

18. SAME—BILL NOT DISMISSED, BECAUSE INFRINGING DEVICE NOT FORMALLY OFFERED.

Where the evidence showed that device first manufactured by defendant did not infringe, but that the form later adopted by it did infringe, bill *Held* not to be dismissed on appeal, necessitating the filing of a new bill, because the last-mentioned form was not formally put in evidence.

19. SAME—1,121,097, CLAIMS 19, 23, AND 41, HELD INFRINGED.

Claims 19, 23, and 41 of the Hazen patent, No. 1,121,097, for a separable ribbon drive for folding typewriters, *Held* infringed.

APPEAL and cross appeal from the District Court of the United States for the Western District of Michigan.

Suit by the Corona Typewriter Company against the Fox Typewriter Company. Judgment granting plaintiff partial relief, and both parties appeal. Modified and remanded.

Mr. Theodore S. Kenyon and *Mr. Alan D. Kenyon* (*Mr. William R. Davis* on the brief) for Corona Typewriter Co.

Mr. Fred Chappell (*Messrs. Chappell & Earl* and *Mr. George Clapperton* on the brief) for Fox Typewriter Co.

Before KNAPPEN, DENISON, and DONAHUE, Circuit Judges.

DENISON, *Cir. J.*:

This was the usual infringement suit, brought in the court below by the Corona Company against the Fox Company, based upon 8 different patents for typewriters, combining the standard keyboard and type-bar construction, with the capacity for folding into small space, so as to be easily packed and carried. Under the 8 patents, 46 claims were specified and relied upon. Of these 27 were held valid and infringed; 12 valid, but not infringed; and 7 invalid. Both parties appealed, affecting 7 patents and 35 claims. The patents now involved are the following:

Rose, Reissue 13,934, filed May 22, 1915, issued June 22, 1915, upon original 754,242, filed February 11, 1903, issued March 8, 1904; Rose, Reissue 13,935, filed May 22, 1915, issued June 22, 1915, original 948,553, filed April 18, 1905, issued February 18, 1910; Hazen, 1,121,094, filed June 23, 1908, issued December 15, 1914; Hazen, 1,121,097, filed June 3, 1909, issued December 15, 1914 (upon a divisional application under last-named patent); Petermann, 1,064,372, filed April 3, 1911, issued June 10, 1913; Petermann, Reissue 14,599, filed December 1, 1916, issued February 25, 1919, upon original 1,121,034, filed September 15, 1910, issued December 15, 1914; Latta, Reissue 14,495, filed May 24, 1918, issued July 23, 1918, upon original 1,222,550, filed November 2, 1911, issued April 10, 1917. These different patents and their several claims involved will be considered consecutively, and without regard to which party succeeded below.

The first Rose reissue, No. 13,934, presents the broadest claim of invention, and one which has been the subject of much litigation. The original patent was before the second circuit court of appeals in *Standard Typewriter Co.* v. *Standard Folding Typewriter Sales Co.* (181 Fed., 500; 104 C. C. A., 248) on an appeal from an order granting a preliminary injunction. The order was sustained upon the theory that there was patentability at least in the method of folding, by which the carriage was made to overhang the keyboard, and this feature was used by the defendant. The case came on for final hearing before Judge Hand, who held that the claims were anticipated by the earlier Carmona patents. The decision of the court of appeals on the second appeal is found in 223 Fed., 779; 139 C. C. A., 599; 219 O. G., 269. Judge Hand's conclusion that the Carmona patent anticipated was upheld, and his decree affirmed. The owners of the Rose patent then surrendered it and procured a reissue. Their substantial ground was that the claims had been drawn in ignorance of the existence of the Carmona, and it was desired to confine them to Rose's invention as it could be distinguished from Carmona—in other words, to narrow the claims, so that they would no longer be anticipated. This resulted in the reissue patent now in suit.

[1, 2] It is not necessary to quote the claims of the original and claim 28 of the reissue, which is the only one now in suit. It is enough to say that those claims of the original, which are of importance in this connection, were not limited to a typewriter having a universal or standard keyboard, but were broad enough to reach and include the very different keyboard of the Carmona. In this respect claim 28 of the reissue was narrowed. On the other hand, these claims of the original were limited to that particular type of shifting whereby the carriage was folded into overhanging relation to the keyboard. This limitation is omitted from claim 28 of the reissue, which is broad enough to reach any folding of the carriage into more compact relation with any other part of the typewriter. The defendant's structure does infringe the reissued claim; it would not have infringed any original claim. The patentee cannot point to one narrowing limitation in his reissued claim, and thereby hide a broadening in the same claim, when that broadening serves to bring within the monopoly a structure which otherwise would have been free; to say that the claim is narrowed is to state but a half truth; and when this broadening by reissue occurs, as it did here, 11 years after the issue of the original, the reissue is plainly insufficient as a basis for injunction against such a structure. Whether it would be invalid as against a structure not prejudiced by the broadening we need not decide. Plaintiff's argument is in effect that, because the original had a claim broadly to feature *a* in connection with limiting details and another claim broadly to feature *b*, joined with detailed limitations, it may have on reissue, after this delay, a claim broadly to *a* and *b* combined alone. As to this patent the bill must be dismissed. See *Automotoneer Co.* v. *Porter* (C. C. A., 6; 232 Fed., 456; 146 C. C. A., 450).

[3] While the first Rose reissue, thus disposed of, pertains most broadly to the foldability of the structure, the second Rose reissue, No. 13,935, relates generally to the separable escapement mechanism. The carriage and platen, which are hinged to the upper part of the frame, carry a rack bar in connection with releasing dogs, which dogs are operated as an escapement to permit the step-by-step motion of the rack bar and the consequent progress of the platen carrying the paper. A chain of mechanism runs from the finger-operated key to these escapement dogs, whereby each depression of the key permits the rack bar to move one step. All this was old and common; but it was clear that, when the position of the carriage was changed by swinging it up on its hinged edge, this chain of mechanism must yield or break, and it must be so broken that it would be automatically restored when the carriage was dropped back into normal position. This is what is meant by the reference to the separable escapement mechanism. The claims of this patent, both of the original and the reissue, were broadly directed to this feature, and cover it in combination with any form of fold for the carriage. The claims now in suit were not materially broadened when reissued.

There has been much discussion as to whether Carmona disclosed a workable machine, so that it should be included in the prior art. Upon superficial inspection of the Carmona patent, it seems to involve all necessary separability, and that would be the inference from the decisions in the second circuit, and the action of the patentee in surrendering the first Rose patent for reissue looks toward an admission that Carmona anticipated. On the hearing in the court below, the plaintiff presented a machine built in exact accordance with the Carmona specification and drawings, and satisfied the trial judge that it was inoperative. Defendant has presented another model, which is said to be built with only the aid of ordinary mechanical skill as applied to the Carmona specifications and drawings, and this may be operative. We do not think it necessary to go into this subject.

The specification and drawings of the first Rose patent did not disclose the details of the key-to-platen chain of mechanism. It says that the rack bar is to be operated by a suitable escapement mechanism, but that, as the mechanism does not form any part of the invention, it is not considered necessary to illustrate or describe it in detail. Since this separability is absolutely essential to make the Rose device work, the patent is either invalid because it does not disclose an operative structure, or else it must be taken as including and calling for any suitable and familiar means for providing this separability. The latter seems to us the more reasonable alternative, in view both of the face of the patent and the constant insistence by plaintiff that it was valid; and while the language of the claims does not literally include this element, it is not inconsistent with such inclusion. Each claim necessarily calls for a typewriter, having the carriage foldable, and still continuing to be an operative typewriter, and thereby necessarily requires that the escapement mechanism shall be separable. Any attempt to apply the claims to a structure which did not have that feature must fail. The patentee would have been the first to say that, of course, a suitable separable escapement was implied in his claims, and a contrary holding would have been very harsh and technical.

This conclusion is fortified by the fact that suitable separability in just such an escapement and for just such a general purpose was well known. The patent to Sholes of September 29, 1896, disclosed the same general key-to-platen chain as was shown by the second Rose patent. Sholes showed a carriage hinged at one side and which could be turned up out of normal position, thereby breaking the escapment mechanism, which was restored on the dropping of the carriage. This Sholes mechanism must be taken as typical of that "suitable escapement" to which Rose refers. It could have been incorporated in the first Rose structure, and only in that or some equivalent way could the implied calls of the claims have been satisfied.

The result of this view is that the claim in suit of the first patent was for the combination of the folding feature with any separable escapement, and that the broad claims of the second patent are for the combination of a separable escapement with any folding feature—precisely the same thing. This is double patenting. It is not an instance of basic and improvement patents, nor of copending or divisional applications. The result of sustaining the second patent would be to extend for nearly six years the monopoly granted by the first patent, covering any foldability in combination with any separable escapement. The claims of the second patent which have this broad aspect are invalid. We think claims 19, 20, 22, and 23 either call for or imply any suitable separable escapement in connection with the folding feature claimed and shown in the first patent, and are therefore within this condemnation. The structure of these claims would infringe the first patent, and any operative device that could be built under the first patent would infringe these claims of the second. See *Miller* v. *Eagle* (151 U. S., 186, 196; 14 Sup. Ct., 310; 38 L. Ed., 121; 66 O. G., 845); *Palmer* v. *Lozier* (C. C. A., 6; 90 Fed., 732, 744; 33 C. C. A., 255); *Otis Co.* v. *Portland Co.* (C. C. A., 1; 127 Fed., 557, 559; 62 C. C. A., 339).

[4] Obviously, this conclusion would not reach any claims which were limited by the inclusion of some specially suitable details of the separable escapement which were invented by Rose and disclosed by this patent, and the remaining claims sued upon and appealed, 8 and 10, are narrower; but we do not find them characterized by any invention made by Rose. While they are more specific in their description of the separable escapement mechanism, they read in that respect literally upon the Sholes construction; and whether we say that the first patent should rightly be treated

as calling for the Sholes construction, since that was well known, and so come to the conclusion that these claims are instances of double patenting, or say that, since Rose was barred from having a valid further patent on the mere combination of carriage foldability and escapement separability, he cannot escape that bar by including in his combination details familiar in the art, which involve no invention beyond the forbidden field—in either case, these two claims cannot stand. The bill must be dismissed as to the second Rose reissue.

[5–7] The Hazen patent, 1,121,094, presents for consideration only one claim, No. 11. This is for the old Rose combination plus a ribbon mechanism carried on a folding carriage. We are not satisfied that this claim was anticipated by the Rose patent, or by the model which Rose had. Each of them disclosed a ribbon carried on spools and mounted on the folding carriage; but claim 11 calls for ribbon mechanism, and the mere carrying of the ribbon on spools on a carriage without feeding means does not fairly answer the call for mechanism. Neither must the presence of such mechanism in the Rose patent be implied, in order to make it operative, as we have held was the case with the separable escapement. Even though it might have been necessary to adjust manually the ribbon disclosed by Rose, the typewriter still would have been operative, in the sense necessary to the validity of a patent. However, when we give the claim the broad construction, which is the only appropriate one in view of the next patent to be considered, we think it involves no invention, in view of Rose and Hammond. The claim purports to cover the idea of mounting any ribbon mechanism on a folding carriage. Since ribbon mechanism of the same general type was old in Hammond, and had been by him mounted on the carriage, and as Rose had disclosed mounting the ribbon and its carriers on a folding carriage, it was not patentable merely to transfer Hammond's ribbon mechanism from a stationary to a folding carriage. The bill must be dismissed as to this patent. Whatever invention Hazen made related to the means by which he was able to put the ribbon mechanism on the folding carriage and make it work. This means he undertook to protect by his next patent.

[8, 9] The Hazen patent, 1,121,097, was the result of a divisional application, under the application for 1,121,094. The ribbon mechanism which he shows is, when considered by itself, precisely that of Hammond; that is to say, each ribbon spool has a vertical shaft carrying at the bottom a horizontal pinion, which is actuated by a worm, the shaft of which carries a ratchet wheel, which in turn is rotated by the intermittent application of a thrust pawl, and the pawl is carried by a rocking frame, which is rocked by the action of the key or space lever when depressed by the fingers. This was the chain, conveying power from key lever to ribbon spool. Since the carriage was to fold up away from the frame, this chain must be so broken somewhere by the folding that it would be automatically restored when the carriage was replaced; in other words, there must be a separable ribbon drive. Since Sholes and Rose had shown separability in the chain of driving elements between key lever and folding carriage, we can see no invention in the mere conception of separability in the chain of ribbon-driving elements; but how to get it was not obvious. The most natural thought would seem to be to use the same key-to-carriage chain and the same break therein, and operate the ribbon mechanism on the carriage by direct connection with the escapement; indeed, defendant at first used that construction. There would not have been invention merely in using this existing separability; but Hazen thought best rather to establish a partially independent separability in the key-to-ribbon chain. Out of several places where he might have broken this, he selected as the separable members the worm-shaft ratchet on the carriage and a driving pawl on the rocking frame, and he adjusted the other parts to this conception and produced his patented device. This method was successful. So far as we are informed, no other has been; and this particular method of effectuating this separability has been adopted by defendant. We think the patent in this respect valid and infringed. In this last conclusion we are not troubled with the question whether defendant's device is "foldable" within the meaning of the first Rose patent. It is apparent, from the entire Hazen specification, that when speaking of the carriage he used "foldable" and "shiftable" as interchangeable.

Claim 19 is limited to this construction quite specifically. Claims 23 and 41 are less specifically limited, but they refer to the same general construction, and call for the means of accomplishment, rather than for the mere conception of separability. We think they should be considered valid.

We must consider claim 25 as too broad, because it reads upon a structure having no key-to-ribbon separability, independent of or in addition to the breaking which Rose and Sholes had shown. We classify claims 22, 38, and 56 with 25. They have nothing patentable, in view of Rose, Sholes, and Hammond. They do not successfully meet the test of invention which we must here apply, viz, confinement to a separable key-to-ribbon chain, as distinguished from a previously known key-to-platen chain. As to this patent, the bill should be dismissed as to claims 22, 25, 38, and 56, and there should be the usual decree for injunction and accounting as to claims 19, 23, and 41.

[10, 11] The Petermann patent, 1,064,372, presents only claim 18, which relates to a centering device to position the carriage for folding. The purpose is to make sure in advance that the carriage is centrally placed before folding; and since the defendant's is not positioned until after folding, infringement would be at least doubtful. However, we think the claim is not valid. It was common in many arts to provide for any moving body a stop which, when released for activity, would

position and lock the moving body at any desired spot. See *Troy Co.* v. *Ohio Co.* (C. C. A., 6; 274 Fed., 612, 618–621, 293 O. G., 439). This common expedient had been adopted into the typewriter art by the tabulating typewriter, in which, by depressing a key, a "pivotally held device" became active, so that it would stop the carriage at the selected point, and then a letter or figure could be printed at that point. So far as this claim is concerned, Petermann's construction is clearly equivalent to the tabulator. There is no patentable difference between positioning a typewriter carriage for printing and positioning it for folding. As to this patent, the bill must be dismissed.

[12] In Petermann reissue, 14,599, we find a different method of folding the carriage. In the Rose patent the carriage was hinged at its front edge to the frame, and so, when lifted, it parted from the frame at its rear edge and swung over forward and upside down at the front of the machine. Petermann in this patent planned to slide the carriage back to the rear and then to let it turn downwardly. He hinged the folding carriage at the rear edge of the frame, and he provided slots in the carriage bed in which the hinge pins could slide. No machine was ever built under the patent, so far as we find in the record. Out of a large number of claims, nine are relied upon. Claims 4, 21, 28, 29, 36, and 37 are not limited in any way to the slotted arm and hinge which give Petermann his only mechanical novelty, aside from the direction of his fold. There was no invention in merely making the carriage fold backward instead of forward. Except for the direction and extent of the fold—to the rear instead of to the front, and continuing wholly below the horizontal, instead of in part stopping there—every one of these six claims reads word for word upon Rose; and each one would be infringed by Rose, save for the distinction between front and rear. These claims involve only a change in direction and extent. They are not valid.

[13] Three of the claims, 26, 33, and 34, are additionally limited to a device for locking the carriage in place after it is returned to operating position; defendant uses an analogous, if not an equivalent, lock. However, the lock is nothing but the common gravity engagement of complementary parts; the upper part must be lifted slightly before it will move horizontally. An unpatentable combination cannot be made patentable by adding that element. These three claims are also invalid, and the bill must be dismissed as to this patent.

[14] The Latta reissue, 14,495, shows a clear departure from all those so far considered. Latta carried his keyboard, keys, and attendant mechanism upon a main stationary frame; he supported his carriage upon a distinct and independent frame. The carriage frame was pivoted to the inside of the main frame near the lower front corner, and was free to swing on this pivot, so that the carriage would rise and fall within the main frame and on the arc of a circle. A suitable lock was provided by which the carriage frame could be held in its highest position and the device would then be operable in the usual way. Latta thus accomplished his compactability by the use of separate frames and by the withdrawal of one part within the other, in quasi telescopic fashion. Compacting by telescopic withdrawal was, of course, common in many arts; but no one had thought of applying that idea to the two parts of the typewriter, and the methods by which it was accomplished do not impress us as obvious. In this situation we see no sufficient reason why we should deny Latta the credit of having made a substantial invention, nor why his claim should necessarily be limited, so as not to reach every typewriter with his characteristic, two-part, telescopically compacting frame.

In reaching this result, we do not give any controlling effect to the mere fact that his construction, like defendant's, permitted the platen and carriage to be lowered into compact position while remaining substantially horizontal; that is, right side up. It may be, as defendant urges, that this is not a particularly valuable result, nor alone a sufficient basis for the claim of meritorious invention; but we may well consider it rather as incidental to the general plan of withdrawing one frame within the other, whenever the pivoting is so located that this result will follow.

[15] We do not overlook the fact that plaintiff never made a machine under the Latta patent, nor the—at least possible—inference that it obtained and held this patent in order to supplement its existing patents on the forward fold and the rearward fold, and with the intention to monopolize completely any folding or compacting. These facts would inspire caution in a doubtful case of validity, and lead to hesitation in giving maximum breadth to claims; but, if the Latta patent was valid, plaintiff had the right to take this course, and it cannot prevent giving his claims the breadth to which they seem reasonably entitled, whatever may be its effect in other phases of the case.

The defendant departs from Latta's specific construction, and many of the claims are not infringed; but the court below thought that 12 of them were. The defendant has a main or stationary frame; its carriage and platen bed is carried upon four links, two parallel ones at each end, which are pivoted respectively to the front and rear corners of this bed and to the main frame at the lower ends of the links, respectively near the front and about midway of the lower edge of the main frame. They can be locked to the main frame when in their topmost position, and while thus rigidly maintained the platen is in operative position with reference to the keys. When released from the lock which holds the links up, the carriage bed will swing upon them backward and downward, until it rests level with the bottom of the main frame and close to the rear thereof.

We may take Latta's claim 51 as presenting in a fairly typical way the question of infringement. It reads:

> In a typewriting machine, the combination of type carriers, a keyboard therefor, a platen, and means which enable the machine to be contracted into a smaller space than that which it occupies when in use; said means comprising a frame having relatively movable sections carrying the working parts of the machine, said sections being adapted to fit one within the other, and means which enable the type carriers and platen to be adjusted bodily, relatively one to the other, into and out of co-operative relation.

The side links of defendant's machine constitute a "movable section," which carries one portion of the working parts of the machine, and the main frame and the links are frame sections, which fit one within the other, when the relative movability is called into action. We think it should be said that defendant's machine has the characteristic quasi telescopic fold or compacting which was Latta's invention. Other claims, like 50 undoubtedly read upon the defendant's device, unless defendant's links ought not to be thought of as a frame; but we think that, when they are elevated and locked they do, in a proper sense, constitute a frame or a frame section, which holds the carriage and platen in operative position.

As to the Latta patent, the decree should be affirmed. Most of the claims held infringed gain patentability from express or implied inclusion of the two-part collapsing frame. As to some of them, this inclusion would be a matter of close construction and differentiation, and the resulting validity or invalidity would be immaterial as to injunction, accounting, costs, or modification of device. We therefore let the affirmance upon this patent be general.

[16, 17] The decree below should be modified in accordance with this opinion, and the case will be remanded for that purpose. Since the defendant does not escape the injunction or accounting, we think it should not recover the full costs of this appeal, but they should be divided equally between the parties. A disclaimer of the claims held void in the second Hazen patent should be filed below, before decree, and within such time as that court allows, pursuant to the practice in this circuit. (*Westinghouse* v. *Cooper*, 245 Fed., 463, 470; 157 C. C. A., 625.) In view of net result of the suit, the decree for costs in that court will be there reentered or modified, in its discretion.

On application for rehearing.

Both parties have asked for a partial rehearing. In every respect, save one, the matters presented were considered before the opinion in the case was filed, and we see no occasion for reopening.

It is now made clear that in our discussion of the matter of infringement of the second Hazen patent, No. 1,121,097, by the Fox typewriter, we misapprehended the construction of the defendant's machine, as shown in the drawing "Plaintiff's Exhibit 6A." This drawing represents the machine that was offered and received as the evidence of infringement. Upon correcting this misapprehension, it is clear that this machine did not infringe this patent, according to the construction of the patent and the criterion of infringement laid down in the opinion.

[18] During the taking of the proofs, defendant's manager testified that, by its first construction, there was separability between the folding carriage and the frame only at the point where the escapement chain separated, and that the ribbon spools were operated from the escapement mechanism upon the carriage; but he further testified that this method proved unsatisfactory and was abandoned, and the defendant's "present form" adopted. By supposing that the "present form" was thus the real matter in controversy, and by interpreting the witnesses' language about the "present form" as applying to "Plaintiff's Exhibit 6A," we fell into our error. When this was developed, defendants objected to any consideration by this court of the "present form," because it was said not to be in evidence and not to have been considered by the trial court. We concluded that the situation did not call for a dismissal of the bill because only the first machine had been formally put in evidence, thus making necessary the filing of a new bill as to the second form, but that the matter should be disposed of now and here. Thereupon, pursuant to our direction, each party filed in this court a model of the second form about which the manager testified and a memorandum of its views in regard thereto (the defendant filing the same under protest), and we have considered anew the question of infringement by this second form.

[19] In the first form defendant operated the spool ratchet by a pawl arm connected to and moved by a rock bar upon the folding carriage, and this rock bar was in turn actuated by the intermittent contact of an arm rigidly depending therefrom and a directly key-actuated rock bar in the main frame. Thus the carriage rock bar became the source of power for both the escapement and the ribbon mechanism, and there was no separability, excepting that which pertained directly to the key-to-escapement chain. In the second form, the spool ratchet is operated by a pawl on a bell crank, which is pivoted to the frame of the folding carriage, wholly independent from any rock bar, and actuated by the intermittent contact of its bent depending arm with the directly key-actuated rock bar. It is evident that by this change defendant has completely accomplished the independent separability in which we thought there was inventive merit, and has done so by transferring the ratchet operating pawl from the main frame rock bar to the carriage frame. We think this change does not escape the letter of either claim 19 or claim 41, and that it is so far a mere transposition of parts that it should be considered an infringement also of claim 23, and we again conclude that these three claims are valid.

We are asked also to reconsider our conclusion that claims 22, 25, 38, and 56 are too broad to be valid. We can make no differentiating interpretation of these claims which is perfectly satisfactory to us; but we are not satisfied that our previous conclusion as to them was erroneous.

The decree below should be as directed in the former opinion, except that it should specify that the infringement of the second Hazen patent was by virtue only of the so-called second form of the defendant's machine, models of which were filed in this court.

In all other respects, both applications for rehearing are denied.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

795,690, John A. Casey, Wheels, suit filed July 11, 1921. D. C., Massachusetts, Doc. 1258 Eq., *Catherine M. Moylan et al.* v. *The Goodyear Tire and Rubber Co.* Bill dismissed Aug. 28, 1923.

891,898, Frederick M. Becket, Process of making low-carbon metals or alloys, suit filed Oct. 26, 1923, D. C., S. D. N. Y., Doc. E 27-256, *Electro Metallurgical Company* v. *United States Ferro Alloys Corp.*

893,168, Isaac Hewitt, Cement-spreading machine, suit filed Oct. 26, 1923, D. C., N. D. Ohio (Eastern Division), Doc. 904, *The Lakewood Engineering Co.* v. *Stein, Geisel & Stein.*

1,004,505, Auguste Victor Louis Verneuil, Synthetic sapphires, suit filed Sept. 26, 1923, D. C., S. D. Calif., Doc. H 23, *L. Heller & Sons, Inc.* v. *Calman Widess et al.*

1,004,847, Leon S. Brach, Composition of matter, suit filed Apr. 19, 1923, D. C., S. D. N. Y., Doc. E 26-254, *The Solderall Company* v. *Sodder-Rite Co., Inc.* Order granting preliminary injunction, on default, Aug. 7, 1923.

1,053,369, John Ellis, Gas-controlling mechanism for instantaneous water heaters, suit filed Sept. 25, 1923, D. C., S. D. Calif., Doc. H-22, *The Hoffman Heater Co.* v. *White Water Heater Co.*

1,073,496, Eleazer Kempshall, Shoe laces, suit filed Sept. 1, 1923, D. C., R. I., Doc. 174, *International Braid Company* v. *Providence Braid Company.*

1,113,149, Edwin H. Armstrong, Wireless receiving systems, suit filed Aug. 8, 1923, D. C., E. D. Wis., Doc. 1348 C. D., *Westinghouse Electric & Manufacturing Co.* v. *Klitzen Radio Manufacturing Co.* Order for preliminary injunction Oct. 20, 1923.

1,142,223, Amos Andrews, Irrigating plant, suit filed Oct. 20, 1923, D. C., W. D. Michigan (Southern Division), Doc. 2001, *The Skinner Irrigation Company* v. *March Automatic Irrigator Company.*

1,212,331, Paul E. Denivelle, Manufacture of artificial-stone structure, suit filed Aug. 6, 1923, D. C., S. D. Calif., Doc. H-4, *Paul E. Denivelle et al.* v. *Los Angeles Biltmore Co. et al.*

1,243,064, Otto A. Heppes, Roofing strips, suit filed Oct. 22, 1923, D. C., S. D. N. Y., Doc. E 27-242, *Richardson Company et al.* v. *The Ruberoid Company.*

1,245,346, Alfred H. Humphrey, Gas burners, suit filed Oct. 11, 1923, D. C., S. D. N. Y., Doc. Eq. 27-156, *General Gas Light Co.* v. *James P. Conroy et al.*

1,246,527, Hans J. Bentson, Trenching machines, suit filed May 22, 1923, D. C., N. D. Ohio (Western Division), Doc. 399, *Austin Machinery Co.* v. *The Buckeye Traction Ditcher Co.*

1,256,509, Edwin D. Belknap, Addressing machine, suit filed Feb. 6, 1922, D. C., S. D. N. Y., Doc. E 23-100, *Edwin D. Belknap et al.* v. *Wallace Addressing Machine Co., Inc.* Consent order of discontinuance, plaintiff to pay costs and not advertise new suits, defendant not to advertise discontinuance within 30 days, Oct. 26, 1923.

1,256,509. Edwin D. Belknap, Addressing machine, suit filed Oct. 26, 1923, D. C., S. D. N. Y., Doc. E 27-259, *Edwin D. Belknap et al.* v. *Wallace Addressing Machine Co., Inc.*

1,262,860, Samuel B. Smith, Incubators, suit filed June 4, 1923, D. C., N. D. Ohio (Western Division), Doc. 400, *The Buckeye Incubator Co.* v. *The Miracle Incubator Co.* Decree for complainant Oct. 18, 1923.

1,277,700, Ellen W. Decker and Arthur Scott, Ladies' bloomers, suit filed Oct. 24, 1923, D. C., S. D. N. Y., Doc. E 27-137, *Julius Kayser & Company* v. *Louis Cashman.*

1,302,560, Harry G. Jennison, Wood pavements, suit filed May 4, 1923, D. C., N. D. Ohio (Western Division), Doc. 391, *The Jennison Wright Co.* v. *James E. Rabitt et al.*

1,311,895, Alfred H. Humphrey, Gas stoves, suit filed Oct. 11, 1923, D. C., S. D. N. Y., Doc. E 27-157, *General Gas Light Co.* v. *James P. Conroy et al.*

1,316,120, Fred W. Sutherland, Machines for and methods of sealing waxed cartons, suit filed Oct. 8, 1923, D. C., E. D. Wisconsion, Doc. 1360 C. D., *Sutherland Paper Co.* v. *Menasha Printing & Carton Co.*

62,874 (Design), Heimi Weisinger, Ladies' felt slippers, suit filed Oct. 29, 1923, D. C., S. D. N. Y., Doc. E 27-60, *International Footwear Co., Inc.*, v. *Joseph B. Rubin, et al (Rubin Bros.).*

Interference Notices.

U. S. PATENT OFFICE, *Washington, Nov. 5, 1923.*

Clark Mfg. Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between Walter C. Palmer, 39 Vine Street, Cincinnati, Ohio, for registration of a trade-mark and trade-mark registered June 20, 1916, No. 111,068, to Clark Mfg. Co., 226 Church Street, Philadelphia, Pa., and a notice of such declaration sent by registered mail to said Clark Mfg. Co. at said address having been returned by the post office authorities as undeliverable, notice is hereby given that unless said Clark Mfg. Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Nov. 6, 1923.*

Phila Marton Shugart, his assigns or legal representatives, take notice:

An interference having been declared by this Office between Frederick Martin Burns, 135 North Fulton Avenue, Mount Vernon, N. Y.; Miller Brothers, 316 Fifth Avenue, New York, N. Y., and Phila Marton Shugart, 11 West Sixty-ninth Street, New York, N. Y., for registration of a trade-mark, and a notice of such declaration sent to said Phila Marton Shugart at the said address having been returned by the post office authorities as undeliverable, notice is hereby given that unless said Phila Marton Shugart, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Oct. 30, 1923.*

Northwestern Soap Manufacturing Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of "3 W" Powder Company, 2551 Whittier Boulevard, Los Angeles, Calif., for registration of a trade-mark and trade-mark registered May 17, 1921, No. 142,643, to Northwestern Soap Manufacturing Company, Lewistown, Mont., and a notice of such declaration sent by registered mail to said Northwestern Soap Manufacturing Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Northwestern Soap Manufacturing Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Oct. 30, 1923.*

Henry Jensen, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Golden Nugget Sweets, 7 College Terrace, San Francisco, Calif., for registration of a trade-mark and trade-mark registered March 12, 1901, No. 36,060, to Henry Jensen, 331 to 337 Norfolk Street, Cambridge, Mass., and a notice of such declaration sent by registered mail to said Jensen at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Jensen, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Oct. 30, 1923.*

Linden B. Thomas, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Vivian A. Shortt, 34 West Thirty-third Street, Indianapolis, Ind., for registration of a trade-mark and trade-mark registered May 9, 1916, No. 110,192, to Linden B. Thomas, 344 Weybosset Street, Providence, R. I., and a notice of such declaration sent by registered mail to said Thomas at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Thomas, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Oct. 31, 1923.*

Wabash Soap & Chemical Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between The Hoosier Manufacturing Co., 521–523 McCarty Street, Indianapolis, Ind., for registration of a trade-mark and trade-mark registered December 4, 1894, No. 25,590, to Wabash Soap & Chemical Co., Wabash, Ind., and a notice of such declaration sent by registered mail to said Wabash Soap & Chemical Co. at the said address having been returned by the post office authorities as undeliverable, notice is hereby given that unless said Wabash Soap & Chemical Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Changes in Classification.

(Order No. 2,838.)

U. S. PATENT OFFICE, *October 6, 1923.*

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 139, Textiles, Weaving (Division XXI), change the title of subclasses 114, Warp manipulation, Feeding, Let-offs, Whip rolls, and 115, Warp manipulation, Feeding, Let-offs, Whip rolls, Positive slackeners, to read:

Warp manipulation—
Feeding—
114. Whip rolls—
115. Positive slackeners.

In class 47, Trees, Plants, and Flowers (Division 1), change the title of the class to read class 47, Plant Husbandry, abolish the existing subclasses, and establish in lieu thereof the following subclasses and definitions:

47.—PLANT HUSBANDRY.
1. **Miscellaneous.**
2. **Frost preventing.**
3. **Celery blanching.**
4. **Hedge training.**
5. **Cotton treating.**
6. **Grafting—**
7. Budding.
8. **Tree surgery.**
9. **Mulching.**
10. **Turpentine and rubber—**
11. Buckets and spouts.
12. Tools—
13. Hacks.
14. **Seed testers—**
15. Roll.
16. With heater.
17. **Greenhouses—**
18. Benches.
19. **Hotbeds.**
20. **Tree covers—**
21. Single tree—
22. With heater.

47.—PLANT HUSBANDRY—Continued.
23. **Tree-trunk guards—**
24. Belts.
25. Root.
26. **Plant covers, shades, and screens—**
27. With irrigator,
28. Covers—
29. Transparent top,
30. Open top,
31. Screen,
32. Root.
33. **Ornamental beds.**
34. **Plant receptacles—**
35. Hanging,
36. Window,
37. Transplanting,
38. With irrigators.
39. **Plant stands—**
40. Window.
41. **Flower holders.**

47.—PLANT HUSBANDRY—Continued.
42. **Tree supports—**
43. Props.
44. **Plant supports—**
45. Cage,
46. Linear,
47. Vertical.
48. **Subsoil irrigators and weed killers—**
49. Tools.
50. **Sap buckets—**
51. Combined with cover and spout,
52. Spouts—
53. With bucket support,
54. Covers.
55. **False stems.**
56. **Seed tapes.**
57. **Miscellaneous machines and tools.**
58. **Miscellaneous processes.**

THOMAS E. ROBERTSON, *Commissioner.*

Changes in Classification.

(Order No. 2,842.)

U. S. PATENT OFFICE, *Washington, Oct. 31, 1923.*

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 29, Metal Working (Division XIII), establish the following subclass and definition:

89.5. Burning-in, wearing-in, and oil-burnishing.

89.5. BURNING-IN, WEARING-IN, AND OIL-BURNISHING. Machines or devices for burning-in or wearing-in the bearings of engines, usually internal-combustion engines, and running-in or oil-burnishing to limber the bearings and to test for detection of oil leakage at the joints of the casings.

The patents contained in this subclass have been taken from class 29, Metal Working, subclass 1, Miscellaneous.

In class 29, Metal Working (Division XIII), subclass 89, Assembling, Work holders, add at the end of the definition and before the existing search note the following note:

Search this class, subclass 89.5.

THOMAS E. ROBERTSON,
Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 20, 1923.

[VOL. 316. No. 3.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 137,326. (CLASS 12. CONSTRUCTION MATERIALS.) MILWAUKEE CORRUGATING COMPANY, Greenfield, Wis. Filed Sept. 18, 1920.

"MILCOR"

Particular description of goods.—Eaves Trough and Eaves Trough Drops, Ends, and Fittings; Conductor Pipe and Conductor-Pipe Elbows and Fittings, Building Corners; Corner Beads, Base Screeds, Moldings, and Plaster Terminals; Ceiling, Roofing, and Siding; Finials and Cupolas.

Claims use since November, 1911.

Ser. No. 138,557. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE GEM HAMMOCK & FLY NET COMPANY, Milwaukee, Wis. Filed Oct. 20, 1920.

KLEEN-O

Particular description of goods.—Brooms and Mops.
Claims use since Nov. 24, 1916.

Ser. No. 145,000. (CLASS 25. LOCKS AND SAFES.) AMERICAN WHEEL COMPANY, Philadelphia, Pa. Filed Mar. 21, 1921.



No claim made to the words "Trade Mark" or "Auto Lock."

Particular description of goods.—Automobile Steering-Post Locks.

Claims use since on or about Feb. 21, 1921.

Ser. No. 151,279. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) METROPOLE DRUG COMPANY, INC., Pittston, Pa. Filed Aug. 2, 1921.

METROPOLE TONIC



No claim made to the word "Tonic."

Particular description of goods.—General Tonic.

Claims use since June, 1921.

Ser. No. 151,462. (CLASS 39. CLOTHING.) MISHAWAKA WOOLEN MFG. CO., Mishawaka, Ind. Filed Aug. 5, 1921.

THE MIDLAND RUBBER CO

Particular description of goods.—Boots, Shoes, and Rubbers.

Claims use since Oct. 1, 1897.

Ser. No. 152,251. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) GORHAM MANUFACTURING COMPANY, Providence, R. I. Filed Aug. 27, 1921. Under section 9 of the act of Mar. 19, 1920.

GORHAM

Particular description of goods.—Crockery and Porcelain—Namely, Table Crockery, Vases, Porcelains, Jars, Jardinieres, Bowls, and Ornamental Crockery and Porcelain.
Claims use since 1904.

Ser. No. 152,661. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNION BISCUIT COMPANY, St. Louis, Mo. Filed Sept. 6, 1921.

UNION BISCUIT COMPANY KRAK-R-JAK ST. LOUIS

Particular description of goods.—Biscuits, Crackers, Cake, and Cake Wafers.
Claims use since Feb. 15, 1905.

Ser. No. 152,785. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) COOK ELECTRIC COMPANY, Chicago, Ill. Filed Sept. 10, 1921.

COOK ELECTRIC CO

Particular description of goods.—Electrical and Telephone Apparatus—Namely, Distributing Frames, Central-Office Protectors, Substation Protectors, Lightning Arresters, Pole Cable Terminals, Cable Pole Heads, Telephone-Line Fuses, Soldering Irons, Building Terminals, and Radio-Protectors.
Claims use since Feb. 28, 1921.

Ser. No. 153,869. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BRADNER CONDENSED MILK CO., Seattle, Wash., assignor to United Dairy Association of Washington, Seattle, Wash., a Corporation of Washington. Filed Oct. 8, 1921.

Darimade



Particular description of goods.—Canned Milk.
Claims use since Jan. 1, 1913.

Ser. No. 154,004. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE VIRGINIA DARE COMPANY, Baltimore, Md. Filed Oct. 11, 1921.

Virginia Dare

Particular description of goods.—Preserved Crushed Fruits for Soda-Fountain Purposes.
Claims use since Apr. 28, 1916.

Ser. No. 154,016. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) EMIL W. ERDMANN, St. Louis, Mo. Filed Oct. 12, 1921.

AUTOMOBILERY

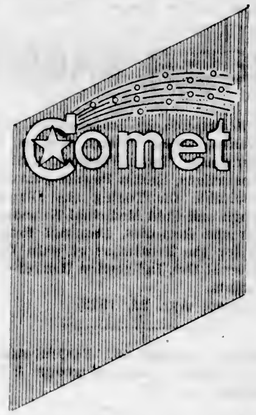
Particular description of goods.—Automobile Bodies, Tops, and Wheels.
Claims use since March, 1918.

Ser. No. 156,097. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MACKECHNIE BREAD COMPANY, Los Angeles, Calif. Filed Nov. 30, 1921.

MAC-KECK-NE'S

Particular description of goods.—Bread.
Claims use since June 15, 1916.

Ser. No. 156,603. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEABOARD RICE MILLING CO., Galveston, Tex. Filed Dec. 12, 1921.



The lining for color on the drawing indicates red.
Particular description of goods.—Rice.
Claims use since during the month of October, 1912.

Ser. No. 156,791. (CLASS 27. HOROLOGICAL INSTRUMENTS.) HELBEIN-STONE COMPANY, INC., New York, N. Y. Filed Dec. 16, 1921.

Helbros

Trade-mark "Helbros."
Particular description of goods.—Watchcases.
Claims use since about July 1, 1916.

Ser. No. 159,337. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BALLARD & BALLARD COMPANY, Louisville, Ky. Filed Feb. 15, 1922.



Particular description of goods.—Wheat Flour—Namely, Pancake and Buckwheat Flour.
Claims use since about Oct. 1, 1922.

Ser. No. 159,504. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ECKMAN CHEMICAL COMPANY, Omaha, Nebr. Filed Feb. 18, 1922.

KILLABUG

Particular description of goods.—Insecticide.
Claims use since May 1, 1920.

Ser. No. 159,802. (CLASS 39. CLOTHING.) LEVINSON & SHAPIRO, INC., New York, N. Y. Filed Feb. 25, 1922.

Bell Brand

Particular description of goods.—Men's, Women's, and Children's Hosiery.
Claims use since about 1912.

Ser. No. 160,592. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DUNLOP MILLING CO., Clarksville, Tenn. Filed Mar. 13, 1922.



LOG CABIN

Particular description of goods.—Self-Rising Flour.
Claims use since March, 1916.

Ser. No. 161,348. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY N. BRAWNER, Jr., doing business as Chestnut Farms Dairy, Washington, D. C. Filed Mar. 28, 1922.

ARLINGTON



Particular description of goods.—Butter.
Claims use since Dec. 15, 1921.

Ser. No. 161,929. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LEVENSON, SHEVELOVE CO., INC., Newark, N. J. Filed Apr. 8, 1922.

ROBERT TREAT

The trade-mark consists of the name "Robert Treat," the same being the name of a historical character of the colonial period in the settlement of Newark, N. J.

Particular description of goods.—Wheat Flour.

Claims use since Jan. 1, 1922.

Ser. No. 161,967. (CLASS 38. PRINTS AND PUBLICATIONS.) NELLITA NAOMI CHOATE, Los Angeles, Calif. Filed Apr. 10, 1922.

PAULINE PAYNE

Trade-mark consists of the pen name or nom de plume of "Pauline Payne."

Particular description of goods.—Pen Name or Nom de Plume on Newspaper Articles.

Claims use since Feb. 20, 1918.

Ser. No. 162,592. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TOASTED ALASKAS CORPORATION OF AMERICA, (LIMITED), Wilmington, Del., and Muskogee, Okla. Filed Apr. 19, 1922.

ALASKAS

Particular description of goods.—Electric Ovens for the Toasting of Ice Cream.

Claims use since Mar. 31, 1922.

Ser. No. 162,647. (CLASS 39. CLOTHING.) FELIX SIMMONS, doing business as Styla Silk Hosiery Co., Worcester, Mass. Filed Apr. 20, 1922.

STYLA



No claim made to the words "Silk Hosiery" aside from the mark shown.

Particular description of goods.—Hosiery.

Claims use since Apr. 1, 1921.

Ser. No. 162,815. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM P. M. GRELCK, St. Paul, Minn. Filed Apr. 24, 1922.

GRELCALWHEAT

No claim is made to the word "Wheat" apart from the mark as shown.

Particular description of goods.—Bread.

Claims use since Apr. 13, 1922.

Ser. No. 162,929. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM H. JOHNSON, New York, N. Y., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md., a Corporation of New Jersey. Filed Apr. 26, 1922.

PETER RABBIT

Particular description of goods.—Face Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, Sachet Powders, Laxatives, Medicinal Tonics Suitable for Toning the Digestive Organs, Sedatives, Cough and Cold Medicinal Remedies, Toothache Remedies, Earache Remedies, Dandruff Remedies, Remedies Suitable for the Treatment of Skin Diseases, Liniments for External Use, Indigestion Remedies, Antiseptics, and Disinfectants.

Claims use since Apr. 21, 1922.

Ser. No. 163,176. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) REID, MURDOCH & CO., Chicago, Ill. Filed May 1, 1922.

MONARCH



Particular description of goods.—Canned Fruits and Fruit Preserves, Including Apples, Apple Butter, Apple Sauce, Apricots, Apricot Butter, Blackberries, Blackberry Preserves, Blueberries, Royal Anne and Pitted Cherries, Egg Plums, Figs, Grapes, Grapefruit, Grape Marmalade, Gooseberries, Loganberries, Loganberry Preserves, Peaches, Pears, Pineapple, Red Raspberries, Red-Raspberry Preserves, Strawberries, Strawberry Preserves; Canned Vegetables, Including Asparagus, Baked Beans, Beets, Celery, Kidney Beans, Lima Beans, Okra, Peas, Pumpkin, String Beans, Succotash, Sweet Corn, Sweet Potatoes, Tomatoes, and Spinach; Canned Sea Food—Namely, Clams, Codfish, Lobster, Oysters, and Shrimp; Canned Meats, Including Chicken, Deviled Chicken, Deviled Ham, Sliced Beef, Tongue, and Bacon; Canned Soups, Including Bean, Clam Chowder, and Tomato; Canned Mincemeat and Plum Pudding; Relishes, Including Chili Sauce, Green and Ripe Olives, Red Peppers, Sweet Relish Pickles, Tomato Catchup, and Cocktail Catchup; Spices—Namely, African Ginger, Allspice, Black Pepper, Capers, Celery Salt, Cinnamon, Cloves, Curry Powder, Mace, Mustard, Nutmeg, Poultry Seasoning, Prepared Mustard, Paprika, White Pepper, and Sage; Mexican Chilis, Salad Dressing and Vinegar, Condensed Milk, Coffee and Tea; Citron Peel, Crystallized Ginger, Grapefruit Peel, Lemon Peel, and Orange Peel; Coconut, Walnut Meats, and Peanut Butter; Marshmallow Crème, Maple Sirup and Sugar, and Flour and Cereals—Namely, Barley, Cake Flour, Corn Meal, Dessert Tapioca, Farina, Food of Wheat, Lye Hominy, Granulated Hominy, Pearl Hominy, Pancake Flour, Pearl Tapioca, Pop Corn, Rice, Rice Flour, Self-Rising Buckwheat, Corn, and Wheat Flour, Wheat Bran, Graham Flour, Entire-Wheat Flour, and Gluten Flour.

Claims use since 1880.

Ser. No. 163,243. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNITED FRUIT COMPANY, Boston, Mass. Filed May 2, 1922.



The drawing is lined to show the colors yellow and brown.

Particular description of goods.—Dairy Products—Namely, Condensed Milk, Evaporated Milk, Milk Powder, Malted Milk; Coffee, Whole, Ground, or Pulverized, and with or without Added Ingredients; Tea; Cocoa and Cocoa Powder with or without Added Ingredients, Flavoring Extracts for Food and Baking Purposes; Cured Meats—Namely, Bacon, Ham, Corned Beef, Tongue, and Dried Beef; Canned Meats—Namely, Beef Products, Pork Products, Mutton Products, and Poultry Products; Canned Vegetables, Canned Fruits, Canned Fish, Fruit Jams, Fruit Jellies, Fruit Preserves, Olives, Pickles; Farinaceous Products—Namely, Wheat Flour, Macaroni, Spaghetti, and Vermicelli.

Claims use since Apr. 19, 1922.

Ser. No. 163,309. (CLASS 46. FOODS, AND INGREDIENTS OF FOODS.) ALLIED PACKERS, INCORPORATED, Chicago, Ill. Filed May 4, 1922.

Good-Will

Particular description of goods.—Fresh Meats—Namely, Beef, Pork, Mutton, Poultry; Pickled and Cured Meats—Namely, Beef, Pork, Ham, Bacon; Canned Meats—Namely, Beef and Vegetables, Beefsteak and Onions, Beef Stew, Beef Suet, Boiled Beef, Boned Chicken, Frankfurt Bratwurst, Brisket Beef, Chile Con Carne, Bologna-Style Sausage, Cooked Brains, Corn Beef, Corned-Beef Hash, Deviled Meats, Dried Beef, Georgia-Style Hash, Hamburger Steak, Irish Stew, Deviled Ham, Lamb's Tongue, Liver and Bacon, Beef Loaf, Chicken Loaf, Ham Loaf, Veal Loaf, Luncheon Sausage, Luncheon Beef, Luncheon Tongues, Minced Collops, Minced Steak, Oxford-Style Sausage, Oxtails, Oxtongues, Pigs' Feet, Plum Pudding, Pork Sausage Meat, Potted Meats, Minced Meat, Roast Beef, Roast-Beef Hash, Roast Mutton, Sauerkraut and Vienna-Style Sausage, Sausage Meat, Sliced Bacon, Spaghetti, Meat, and Chili; Stewed Kidneys, Chicken Tamales, Hot Tamales, Tripe, Vienna-Style Sausage, Potted Ham, Deviled Ham, Potted Tongue; Lard, Sausage, Bologna, Mincement, Butter, Eggs, Cheese, and Oleomargarine.

Claims use since Jan. 1, 1921.

Ser. No. 163,617. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. F. DREW & CO., INC., New York, N. Y., and doing business in Boston, Mass., as J. A. Morse, Boston, Mass. Filed May 10, 1922.

BLENDIT

Particular description of goods.—Nut Butter.

Claims use since Apr. 1, 1922.

Ser. No. 164,302. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEIGH E. BROWNELL, doing business as Wildfire Auto Service Co., St. Paul, Minn., assignor, by mesne assignments, to Brownell Wildfire Battery Co., Inc., a Corporation of Delaware. Filed May 23, 1922.

WILDFIRE

Particular description of goods.—Electrolyte for Storage Batteries.

Claims use since Feb. 15, 1922.

Ser. No. 164,746. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH BURNETT CO., Boston, Mass. Filed June 1, 1922.

BURNETT'S FLAVORETTES

Particular description of goods.—Flavoring Extracts for Foods.

Claims use since Nov. 1, 1921.

Ser. No. 165,227. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHICAGO RADIO APPARATUS CO. INC., Chicago, Ill. Filed June 9, 1922.

CHI-RAD

Particular description of goods.—Radio Receiving and Transmitting Apparatus.

Claims use since Mar. 7, 1921.

Ser. No. 165,375. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) A. H. GREBE & CO., INC., Richmond Hill, N. Y. Filed June 12, 1922.

Radiotone

Particular description of goods.—Radio Receiving Apparatus of the So-Called Cabinet Type.

Claims use since on or about Mar. 1, 1922.

Ser. No. 165,733. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) VOX-SCHALLPLATTEN- UND SPRECHMASCHINEN-AKTIENGESELLSCHAFT, Berlin, Germany. Filed June 19, 1922.

THE VOICE OF THE WORLD

Particular description of goods.—Talking Machines, Phonographs, Parts Thereof, and Supplies Therefor—Namely, Talking-Machine Records, Record Albums, Record Envelopes, and Needles.
Claims use since Mar. 4, 1922.

Ser. No. 165,783. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE DAYTON PHOTO PRODUCTS COMPANY, Dayton, Ohio. Filed June 21, 1922.

DAYPHO

Particular description of goods.—Moving-Picture Machines, Light-Sensitized Paper and Celluloid, Exposure Meters, Adapters for Holding and Exposing Film, Adapters for Shutters, Anthropometrical Appliances, Backgrounds, Bobbins for Films, Body Rests, Cameras, Adjustments for Cameras; Baseboards, Tailboards, Extensions, and Fittings for Cameras; Jointed, Spring, and Telescopic Focusing Devices; Mechanism or Attachments Connecting Back and Front Frames, Fittings for Duplication of Prints, Film Packs, Focusing and Finding Attachments, Tricolor Attachments, Multiple Photographic Attachments, Lens Boards and Fittings, Shading Hoods, View Finders, Camera Stands or Supports, Color Screens, Direction and Indicating Devices, Printing Frames, Flashing Lights, Reflecting Apparatus, Screens for Printing Surfaces, Sensimometers; Paper Coated with Developing, Fixing, and Chemical Reagents; Self-Developing Papers, Diapositives, Negatives, and Tripods.
Claims use since January, 1921.

Ser. No. 167,005. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MIGNON ELECTRIC MANUFACTURING CORP., Rochester, N. Y. Filed July 17, 1922.

ORIGINAL SUPERIOR MIGNON SYSTEM APPARATUS

No claim is made to the words "Original Apparatus" and "Superior System."
Particular description of goods.—Radio Receiving Sets and Parts Thereof.
Claims use since the first week of December, 1920.

Serial No. 167,223. (CLASS 11. INKS AND INKING MATERIALS.) EMANUEL BAUMGARTEN, doing business as Royal Velvet Products Company, Washington, D. C. Filed July 22, 1922.

ROYAL VELVET

Particular description of goods.—Rubber-Stamp Pads and Rubber-Stamp-Pad Inks.
Claims use since Mar. 23, 1923.

Ser. No. 167,847. (CLASS 39. CLOTHING.) JAMES MCCREERY & COMPANY, New York, N. Y. Filed Aug. 5, 1922.

Mochan

Particular description of goods.—Leather Gloves.
Claims use since July 28, 1922.

Ser. No. 168,034. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GLOBE ART MFG. CO., Newark, N. J. Filed Aug. 10, 1922.

GLOBE RADIO

The word "Radio" as shown in the representation of the trade-mark is herewith disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—Radio Receiving Sets.
Claims use since about May 29, 1922.

Ser. No. 168,335. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE NEW ZEALAND CO-OPERATIVE DAIRY COMPANY LIMITED, Hamilton, New Zealand. Filed Aug. 16, 1922.

PACIFIC

Particular description of goods.—Butter and Cheese.
Claims use since 1913.

Ser. No. 168,541. (CLASS 18. HARDWARE AND PLUMBING, AND STEAM-FITTING SUPPLIES.) METROPOLITAN MANUFACTURING CO., Chicago, Ill. Filed Aug. 21, 1922.

IMPERIAL STEAM PRESSURE COOKER

No claim is made to the words "Steam Pressure Cooker."
Particular description of goods.—Steam-Pressure Cookers.
Claims use since July 28, 1922.

Ser. No. 169,044. (CLASS 12. CONSTRUCTION MATERIALS.) F. GRAHAM WILLIAMS BRICK CO. INC., Atlanta, Ga. Filed Sept. 2, 1922.

ART-TEX

Particular description of goods.—Bricks.
Claims use since June 27, 1921.

Ser. No. 169,978. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LEATHER MAT MANUFACTURING CO., INC., San Francisco, Calif. Filed Sept. 27, 1922.

Carry-Carrier

Applicant disclaims exclusive use of the representation of the goods and the word "Carrier" apart from the other features of the mark as shown.
Particular description of goods.—Baggage Carrier for Automobiles.
Claims use since July 22, 1922.

Ser. No. 170,459. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WYNNE LARD & PROVISION CO. INC., Norfolk, Va. Filed Oct. 7, 1922.

SILVER BELL

Particular description of goods.—Lard Substitute.
Claims use since Mar. 15, 1921.

Ser. No. 170,462. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WYNNE LARD & PROVISION CO. INC., Norfolk, Va. Filed Oct. 7, 1922.

OLD MILL

Particular description of goods.—Lard Substitute.
Claims use since Mar. 15, 1921.

Ser. No. 170,465. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WYNNE LARD & PROVISION CO. INC., Norfolk, Va. Filed Oct. 7, 1922.

GREAT SOUTHERN

Particular description of goods.—Lard Substitute.
Claims use since Mar. 15, 1921.

Ser. No. 170,971. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DEANE PLASTER CO., Yonkers, N. Y. Filed Oct. 20, 1922. Under ten-year proviso.

FIRST AID

Particular description of goods.—Adhesive Tapes.
Claims use since 1886.

Ser. No. 171,294. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) VACUUM OIL COMPANY, New York, N. Y. Filed Oct. 27, 1922.

FLUDENE

Particular description of goods.—Petroleum Oil Used as a Finishing Oil, Particularly for Leather.
Claims use since Aug. 25, 1922.

Ser. No. 171,392. (CLASS 37. PAPER AND STATIONERY.) W. M. TEMPLE, Mason City, Iowa. Filed Oct. 30, 1922.

DANDYROLL

Particular description of goods.—Paper for Correspondence and Printing.
Claims use since June 15, 1922.

Ser. No. 172,123. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MANUEL R. RODRIGUES, Brooklyn, N. Y. Filed Nov. 16, 1922.

M. R. RODRIGUES

Particular description of goods.—Electric Motors, Switchboards, Service Boxes and Parts Thereof, Electric Fire-Alarm Systems and Electric Soldering and Sadiron Systems for Use in Leather-Treating and Other Factories, and Parts Thereof; and Electric Light and Power Wiring Systems for Power and Illuminating Purposes, Comprising Switchboards, Panel Boards, and Fixtures and Parts Thereof.
Claims use since August, 1916.

Ser. No. 172,292. (CLASS 39. CLOTHING.) THE PARAMOUNT KNITTING COMPANY, Chicago, Ill., assignor to Bear Brand Hosiery Co., Chicago, Ill., a Corporation of Illinois. Filed Nov. 20, 1922.

CHAMPLAIN

Particular description of goods.—Textile Articles—Namely, Hosiery.
Claims use since Nov. 13, 1922.

Ser. No. 172,694. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUN-MAID RAISIN GROWERS, Fresno, Calif. Filed Nov. 29, 1922.



SUN-MAID

Particular description of goods.—Raisin Sirup for Food Purposes, Raisin-Seed Salad Oil, Mincemeat, Dried Fruits and Raisins, Raisins and Nuts in Their Natural State, and Canned Raisins.
Claims use since Nov. 1, 1922.

Ser. No. 172,744. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOANNES BROS. CO., Green Bay, Wis. Filed Dec. 1, 1922.

MARTHA WASHINGTON



The picture shown in the drawing is that of Martha Washington (deceased).
Particular description of goods.—Canned Vegetables, Canned Fruits, Canned Milk, Canned Fish, Brick Cheese, Twin Cheese, Butter, Chocolate, Cocoa, Food-Flavoring Extracts, Bouillon Cubes, Horse-Radish, Honey, Peanut Butter, Fruit Jellies, Fruit Preserves, Prepared Mustard, Olive Oil, Olives, Pickles, Chili Sauce, Powdered Sugar, Salad Dressing, Tomato Catchup, Culinary Seeds, Maple Sirup, Cornstarch for Food Purposes, Marshmallow Topping, Vinegar, Canned Soups, Coffee, Tea, Dried Fruits, Pop Corn, Yellow-Mustard Seed, Whole Mixed Spices, Mincemeat, Jelly Powder, Vermicelli, Tapioca, Plain Buckwheat Flour, Self-Rising Whole-Wheat Pancake Flour, Self-Rising Buckwheat Pancake Flour, Rolled Oats, Corn Meal, Whole-Wheat Flour, White Rye Flour, Wheat Graham Flour, and Corn Flakes.
Claims use since 1898 on canned vegetables; since 1902 on canned and dried fruits, chocolate, flavoring extracts, powdered sugar, and mincemeat; since 1920 on canned milk, culinary seed and vermicelli; on canned fish, honey, and pickles since 1910; on brick cheese, twin cheese, olives, coffee, and rolled oats since 1900; on butter and vinegar since August, 1922; on cocoa, bouillon cubes, prepared mustard, soups, and jelly powder since 1914; on horse-radish, chili sauce, and corn flakes since June, 1922; on peanut butter since 1916; on fruit jellies and preserves since 1907; on olive oil since 1911; on salad dressing since 1917; on catchup, mustard seed, and spices since 1904; on maple sirup since 1913; on cornstarch and marshmallow topping since 1906; on tea since 1912; on pop corn and tapioca since 1908; and on buckwheat flour, pancake flour, cornmeal, wheat flour, rye flour, and graham flour since April, 1922.

Ser. No. 173,248. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) HENRY ROSENBERG, New York, N. Y. Filed Dec. 12, 1922.

WOLFOX

Particular description of goods.—Pelts.
Claims use since Nov. 24, 1922.

Ser. No. 173,540. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SOCIÉTÉ POUR LA FABRICATION DE LA SOIE "RHODIASETA," Paris, France. Filed Dec. 18, 1922.

RHODIASETA

Particular description of goods.—Artificial-Silk Fabric Made from Fibers Produced from Acetate of Cellulose.
Claims use since July 10, 1922.

Ser. No. 173,780. (CLASS 39. CLOTHING.) PANTHER RUBBER MANUFACTURING COMPANY, Stoughton, Mass. Filed Dec. 23, 1922.



The trade-mark consists of three white bosses or plugs of the heel.
Particular description of goods.—Rubber Heels.
Claims use since Apr. 18, 1915.

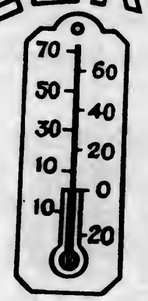
Ser. No. 174,026. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PARCH-O-LITE CO., Chicago, Ill. Filed Dec. 30, 1922.

Parch-O-Lite Co.

Particular description of goods.—Electric Lamps Complete with Parchment Shades.
Claims use since on or about Mar. 1, 1918.

Ser. No. 174,421. (CLASS 39. CLOTHING.) ADSIT AND RUGG INC., Burlington, Vt. Filed Jan. 11, 1923.

ZERO



Particular description of goods.—Sheep-Lined Coats and Vests, Leather-Lined Coats and Vests, Leather Coats and Vests, Woolen-Fabric Coats and Vests, Fur Coats, Overcoats, Hosiery; Men's, Women's, and Children's Knitted Fabric Underwear; Sweaters, Neckscarfs, and Flannel Work Shirts.
Claims use since Dec. 1, 1919.

Ser. No. 174,754. (CLASS 39. CLOTHING.) RELIANCE MANUFACTURING COMPANY, Chicago, Ill. Filed Jan. 18, 1923.

KAPTAIN KHAKI

The trade-mark consists of a hollow diamond-shaped figure in blue on a brown or khaki background, the legend "Kaptain Khaki" appearing within the diamond being also in blue.
Particular description of goods.—Men's Work Shirts.
Claims use since June 8, 1922.

Ser. No. 174,911. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MISSOURI FARMERS' ASSOCIATION, Columbia, Mo. Filed Jan. 22, 1923.

M-F-A

Particular description of goods.—Egg Mash, Chick Starter and Baby-Chick Feed, Scratch Feed, Cattle Fattener, Hog Feed, Dairy Feed, Alfalfa-Molasses Feed, Molasses Feed, Horse and Mule Feed, and Flour.
Claims use since Nov. 1, 1922.

Ser. No. 174,933. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Jan. 22, 1923.

RUDDY

Particular description of goods.—Petroleum and Products of Petroleum with or without Admixtures of Other Materials for Lubricating Oils.
Claims use since July, 1900.

Ser. No. 175,212. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PURITY CAKE COMPANY, Chicago, Ill. Filed Jan. 27, 1923.



Purity

The representation of the loaf in the trade-mark is hereby disclaimed apart from the mark as shown. The word "Purity" is hereby disclaimed apart from the mark as shown.
Particular description of goods.—Cake.
Claims use since Jan. 1, 1922.

Ser. No. 175,488. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. H. GREENE, Kansas City, Kans. Filed Feb. 3, 1923.



Particular description of goods.—External Liniment.
Claims use since Jan. 1, 1921.

Ser. No. 175,502. (CLASS 39. CLOTHING.) THE LAY & WAY CO., New York, N. Y. Filed Feb. 3, 1923.

Double Ve

Particular description of goods.—Girdles, Corsets, and Hip Supporters.
Claims use since Aug. 11, 1911.

Ser. No. 175,535. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) U. S. SANITARY SPECIALTIES CORPORATION, Chicago, Ill. Filed Feb. 3, 1923.

OXEDO

Particular description of goods.—Compound Especially Adapted for Cleaning Surfaces of Wood, Metal, Glass, Enamel, Tile, Rubber, and Allied Materials.
Claims use since Jan. 25, 1921.

Ser. No. 175,835. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EMBRY E. ANDERSON, Memphis, Tenn. Filed Feb. 10, 1923.



Particular description of goods.—Oats for Use as Stock Feed.
Claims use since March, 1922.

Ser. No. 175,837. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EMBRY E. ANDERSON, Memphis, Tenn. Filed Feb. 10, 1923.



"Mixed Oats" are disclaimed apart from the other features of the mark.
Particular description of goods.—Oats for Use as Stock Feed.
Claims use since March, 1922.

Ser. No. 176,079. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOCHMAN & WERTHEIM, Brooklyn, N. Y. Filed Feb. 15, 1923.



The trade-mark consists of an octagon-shaped border having longer vertical and horizontal, right and left, top and bottom sides than its four angled corners, surrounding a woven basket bearing on the side thereof the letter "S". No claim is made to the letter "S" apart from the mark shown in the drawing.
Particular description of goods.—Bread.
Claims use since Dec. 1, 1922.

Ser. No. 176,560. (CLASS 39. CLOTHING.) THE LUCILE SOMARCO BRASSIERE CO., New York, N. Y. Filed Feb. 24, 1923.

Lucile DANDYLINE SOMARCO BRASSIERE

No claim made to the exclusive use of the word "Brassiere" apart from the mark as shown on the drawing.
Particular description of goods.—Brassières.
Claims use since Feb. 20, 1923.

Ser. No. 176,572. (CLASS 39. CLOTHING.) HENRY S. ROCHELLE, doing business as H. S. Rochelle Company, New York, N. Y. Filed Feb. 24, 1923.

TRUSILK GUARANTEED FAST COLOR

No claim is made to the exclusive use of the words "Guaranteed Fast Color" except in association with the mark as shown.
Particular description of goods.—Silk Shirts for Men, Women, and Children.
Claims use since Sept. 29, 1922.

Ser. No. 176,797. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE KAHLEY COMPANY, New York, N. Y. Filed Mar. 1, 1923.



No claim made to the word "Salve" apart from the mark as shown.
Particular description of goods.—Preparations for the Treatment of Corns, Calli, and Bunions.
Claims use since 1904.

Ser. No. 177,100. (CLASS 39. CLOTHING.) IDA MUNZER, INC., New York, N. Y., assignor to L. Bamberger & Co., Newark, N. J., a Corporation of New Jersey. Filed Mar. 7, 1923.

FITZU

Particular description of goods.—Brassières.
Claims use since about Dec. 16, 1922.

Ser. No. 177,202. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) SETON LEATHER CO., Newark, N. J. Filed Mar. 9, 1923.



Particular description of goods.—White Side Leather, White Kips, Patent Colt Skins, Patent Kips, Colored Side Leather, Colored Kips, Mat Side Leather, Mat Colt Leather, Cordovan, Colored Calfskins.
Claims use since May 1, 1909, on white side leather; since May 1, 1909, on white kips; since May 1, 1909, on patent colt skins; since Apr. 15, 1915, on patent kips; since Mar. 21, 1922, on colored side leather; since Mar. 21, 1922, on colored kips; since Mar. 21, 1917, on mat side leather; since Mar. 21, 1917, on mat colt leather; since July, 1916, on cordovan; since Feb. 21, 1922, on colored calfskins.

Ser. No. 177,246. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARY E. THOMPSON, Cleveland, Ohio. Filed Mar. 10, 1923.



Particular description of goods.—Hair Preparations to be Used on the Hair and Scalp of Human Beings.
Claims use since Jan. 15, 1919.

Ser. No. 177,390. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. P. LAU CO., Lincoln, Nebr. Filed Mar. 13, 1923.

POLLY



Particular description of goods.—Food-Flavoring Extracts, Salad Dressing, Prepared Mustard, Apple Vinegar, Canned Fruits, Canned Vegetables, Pancake Flour, Breakfast Wheat, Canned Pork and Beans, Tomato Catchup, and Spices—Namely, Black Pepper, White Pepper, Red Pepper, Sage, Ginger, Allspice, Cinnamon, Ground Mustard, Cloves, Paprika, Cream of Tartar, Nutmeg, Mace, and Chili Powder.
Claims use since Mar. 15, 1911.

Ser. No. 177,474. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHASE CANDY CO., St. Joseph, Mo. Filed Mar. 15, 1923.

Run-A-Rounds

Particular description of goods.—Candy.
Claims use since Dec. 1, 1922.

Ser. No. 177,476. (CLASS 38. PRINTS AND PUBLICATIONS.) CHARLES CROSS, San Francisco, Calif. Filed Mar. 15, 1923.

THE FOOTOLOGIST

Trade-mark consists of the word "Footologist."
Particular description of goods.—Prints and Publications.
Claims use since Jan. 24, 1923.

Ser. No. 177,568. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MISSOURI VALLEY CREAMERY COMPANY, Washington, Mo. Filed Mar. 16, 1923.



Particular description of goods.—A Liquid Maltless Milk-Chocolate Beverage for Food Purposes.
Claims use since Jan. 24, 1923.

Ser. No. 177,678. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. L. KRAFT & BROS. CO., Chicago, Ill. Filed Mar. 19, 1923.



No claim is made to the exclusive use, apart from the mark shown, of the following words: "Queso, Part-Skim, Cheese Products, Purity, Quality, Uniformity, Anticlano, New York and Chicago."
Particular description of goods.—Cheese.
Claims use since June, 1922.

Ser. No. 177,828. (CLASS 39. CLOTHING.) THE CALYORK MANUFACTURING CO., Los Angeles, Calif. Filed Mar. 22, 1923.



Particular description of goods.—Ladies' and Children's Hats.
Claims use since Dec. 15, 1922.

Ser. No. 177,965. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FARMERS MILLING CO. INC., Weyers Cave, Va. Filed Mar. 24, 1923.

MUSTRISE



Particular description of goods.—Plain Wheat Flour and Self-Rising Wheat Flour.
Claims use since Oct. 1, 1921.

Ser. No. 177,989. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PERFECTION PRODUCTS COMPANY, New York, N. Y. Filed Mar. 24, 1923.

RICE HEARTS

Particular description of goods.—Cereal Food Product.
Claims use since Feb. 17, 1923.

Ser. No. 178,100. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE GRISCOM-RUSSELL COMPANY, New York, N. Y. Filed Mar. 27, 1923.

VANEFLO

Particular description of goods.—Condensers, Heat Exchangers, Coolers, and Dephlegmators.
Claims use since about Feb. 1, 1922.

Ser. No. 178,159. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM H. BROOKS, San Francisco, Calif. Filed Mar. 28, 1923.



No claim is made to the words "Convenient and Corrective, Safe and Satisfying" and "Lax Foods" apart from the mark herein shown.
Particular description of goods.—Health Foods Consisting of a Combination of Cereals, Such aa Bran, Flaxseed, and Whole Wheat in Their Raw State, and Also Bran Bread, Bran Cookies, Whole-Wheat Cookies, Bran Muffins, and Whole-Wheat Muffins.
Claims use since about Feb. 20, 1923.

Ser. No. 178,667. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HUGHES AND HANCOCK, Milford Haven, Pembrokeshire, Wales. Filed Apr. 6, 1923.

HUSOL

Particular description of goods.—A Solution, Composition, or Mixture for the Removal of Prevention of Incrustation or Corrosion in Steam Generators, Water Heating Pipes, or the Like.
Claims use since Feb. 12, 1923.

Ser. No. 178,762. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE METRO CHOCOLATE CO., INC., Brooklyn, N. Y. Filed Apr. 7, 1923.



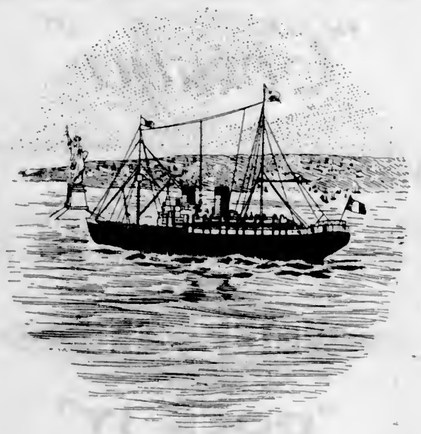
The picture of the girl shown on the drawing is fanciful. No claim is made to the picture apart from the other features of the mark shown on the drawing.
Particular description of goods.—Milk Chocolate, Nuts and Caramel.
Claims use since July 1, 1922.

Ser. No. 178,782. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TROCO NUT BUTTER CO., Chicago, Ill. Filed Apr. 7, 1923.

WHITE LEADER

Particular description of goods.—Oleomargarine.
Claims use since Nov. 18, 1922.

Ser. No. 178,865. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. PERCEVAL, New York, N. Y. Filed Apr. 9, 1923.



Particular description of goods.—Cheese.
Claims use since about 1900.

Ser. No. 179,024. (CLASS 33. GLASSWARE.) CHARLES F. BACON, Trustee, Toledo, Ohio. Filed Apr. 12, 1923.

Sure-Lit

Particular description of goods.—Mirrored Lenses as Light Transmitting and Reflecting Devices in Connection with Traffic Guides, Whether the Devices be Stationary or Carried by Vehicles or Whether or Not There be Light Therein.

Claims use since Jan. 2, 1923.

Ser. No. 179,147. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE GRACENET COMPANY, INC., New York, N. Y. Filed Apr. 14, 1923.



The picture is not of a living individual, but merely fanciful. "The Hairnet That Lends Grace, Charm and Beauty to Milady's Coiffure—Invisible of Real Human Hair" is disclaimed apart from the mark shown on the drawing.

Particular description of goods.—Hair Nets.

Claims use since September, 1922.

Ser. No. 179,198. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GRAVES BROS., Petersburg, Va. Filed Apr. 16, 1923.

"Corulja"

Particular description of goods.—Greaseless Cold Cream and Hair Dressing.

Claims use since Jan. 5, 1923.

Ser. No. 179,311. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NATIONAL COMPOUND CO., INC., Boston, Mass. Filed Apr. 18, 1923.

DUZZIT

"DOES IT"

Particular description of goods.—Safety Brake Dressing, Fabric Cleanser, Liquid Surface Eradicator for Wood, Liquid Surface Eradicator for Metal, and Valve-Grinding Compound.

Claims use since Feb. 1, 1923.

Ser. No. 179,312. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL COMPOUND CO., INC., Boston, Mass. Filed Apr. 18, 1923.

DUZZIT

"DOES IT"

Particular description of goods.—Liquid Carbon Remover for Gasoline Motors.

Claims use since Feb. 1, 1923.

Ser. No. 179,349. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PABLO BACA, doing business as La Victoria Packing Co., Los Angeles, Calif. Filed Apr. 19, 1923.

PIPIAN RANCHERO

The descriptive word "Pipian" (meaning fricassee) is disclaimed apart from the mark as shown in the drawing.

Particular description of goods.—A Mixture of Dried Chili and Spices—Namely, Canned Chili.

Claims use since June 1, 1922.

Ser. No. 179,529. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT M. FROEHLICH, New York, N. Y. Filed Apr. 23, 1923.

RIGHT-O

Particular description of goods.—Raw Materials and Essential Oils, Either Concentrate or Synthetic, Suitable for Manufacturing Hair Tonics, Toilet Waters, Lotions, Toilet Creams, Toilet Powders, and Applicable to Manicuring Specialties.

Claims use since Apr. 16, 1923.

Ser. No. 179,550. (CLASS 38. PRINTS AND PUBLICATIONS.) PHOTODRAMATIST PUBLISHING COMPANY, Hollywood, Calif. Filed Apr. 23, 1923.

THE STORY WORLD AND PHOTODRAMATIST

Particular description of goods.—A Monthly Magazine for Writers and Authors.

Claims use since Mar. 1, 1923.

Ser. No. 179,652. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BLUE RIBBON BATTERY COMPANY, Indianapolis, Ind. Filed Apr. 25, 1923.

BLUE RIBBON TRADE MARK

The word "Trade-Mark" which appeared in the drawing is not actually a part of the trade-mark, and any intent that it be so considered is disclaimed.

Particular description of goods.—Electric Storage Batteries and Parts Thereof.

Claims use since Feb. 20, 1922.

Ser. No. 179,673. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WM. MCDONAGH & SONS, New York, N. Y. Filed Apr. 25, 1923.



No claim is made to the exclusive use of the words "Crema," "Para," "Afeitar," "Est. 1870," and "180 Front St., Nueva York, N. Y., Made in U. S. A." apart from the mark as shown on the drawing.

Particular description of goods.—Shaving-Soap Cream.

Claims use since Nov. 1, 1922.

Ser. No. 179,747. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ALBERT K. SHELDON COMPANY, Boston, Mass. Filed Apr. 26, 1923.

SHELLCO TRADE MARK REG

The words "Trade Mark Reg." are disclaimed apart from the mark shown on the drawing.

Particular description of goods.—Dry Colors, Paste and Ready-Mixed Paints, Varnishes, Oil Pastes Used as Painters' Materials, Shellacs.

Claims use since Jan. 1, 1920.

Ser. No. 180,089. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNIVERSAL MILLS, Fort Worth, Tex. Filed May 2, 1923.

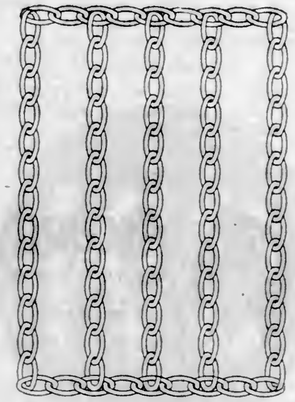
SUPERIOR

No claim is made to the word "Superior."

Particular description of goods.—Stock and Poultry Feeds and Mashes.

Claims use since February, 1922.

Ser. No. 180,090. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNIVERSAL MILLS, Fort Worth, Tex. Filed May 2, 1923.



Particular description of goods.—Stock and Poultry Feeds and Mashes.

Claims use since February, 1922.

Ser. No. 180,101. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COTY, INC., Wilmington, Del., and New York, N. Y. Filed May 3, 1923.



No claim is made to the words "Paris" and "France" apart from the mark shown in the drawing.

Particular description of goods.—Perfumes, Toilet Water, Face Powder, Compact Powder, Sachet Powder, Talcum Powder, Brilliantine, Eau de Cologne, Hair Lotion, and Lip Stick.

Claims use since May, 1916.

Ser. No. 180,140. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WALTER S. POLLARD, Hot Springs, Ark. Filed May 3, 1923.

POLLARD'S

SO-E-ZY

Particular description of goods.—A Medicinal Powder, Said Powder Being Applied and Used Externally as a Remedy in All Forms of Skin Eruptions, Ulcers, Sores, Burns, Chafing, Galls, Prickly Heat, Etc.

Claims use since 1912.

Ser. No. 180,176. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JULIEN GIGUET, Lyon, France. Filed May 4, 1923.

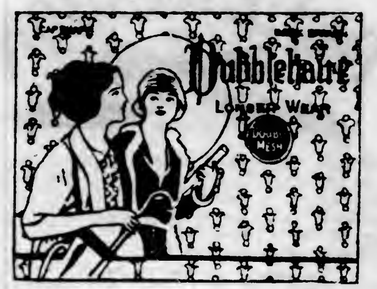


The picture forming a feature of the mark is fanciful. No claim is made for the words "Fringe Shape, Single Mesh, The Hair Net of Distinction and Quality, Made of Real Human Hair, Sanitary, Invisible" apart from the mark as shown in the drawing.

Particular description of goods.—Hair Nets.

Claims use since Mar. 21, 1923.

Ser. No. 180,177. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JULIEN GIGUET, Lyon, France. Filed May 4, 1923.



The picture forming a feature of the mark is fanciful. No claim is made for the words "Cap Shape, Dark Brown, Longer Wear, Double Mesh, Dubblehaire" apart from the mark as shown in the drawing.

Particular description of goods.—Hair Nets.

Claims use since Mar. 21, 1923.

Ser. No. 180,186. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) LAWSON MANUFACTURING COMPANY, Chicago, Ill. Filed May 4, 1923.

RITE-WAY

Particular description of goods.—Garment-Hanging Fixtures for Closets, Wardrobes, and the Like.

Claims use since before November, 1920.

Ser. No. 180,354. (CLASS 39. CLOTHING.) G. H. BASS & CO., Wilton, Me. Filed May 9, 1923.

MOCK-MOCCASIN

No claim is made to the exclusive use of the word "Moccasin" standing alone or apart from the mark shown.

Particular description of goods.—Footwear—Namely, Boots and Shoes and Moccasins Made Either Solely of Leather or with Leather Uppers and Soles of Rubber or Fabric or Combinations of These Materials.

Claims use since about Mar. 5, 1921.

Ser. No. 180,423. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EVANSVILLE TOOL WORKS, Evansville, Ind. Filed May 10, 1923.

ACME

Particular description of goods.—Hammers, Hatchets, Axes, and Wood-Splitting Wedges.

Claims use since about 1902.

Ser. No. 180,453. (CLASS 39. CLOTHING.) THE SERVUS RUBBER COMPANY, Rock Island, Ill. Filed May 10, 1923.

SERVUS

Particular description of goods.—Rubber and Canvas Footwear.

Claims use since Apr. 1, 1923.

Ser. No. 180,671. (CLASS 39. (CLOTHING.) PORTER-SEITZ SHOE STORES COMPANY, Wilmington, Del., and Pittsburgh, Pa. Filed May 15, 1923.



The horizontally-shaded portions of the mark as shown in the drawing are colored blue. No claim is made to any exclusive use of the word "Shoes" as used in the mark apart from the other features of the mark as shown.

Particular description of goods.—Leather Shoes.

Claims use since Feb. 21, 1923.

Ser. No. 180,822. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN WOITKEVICH, Worcester, Mass. Filed May 18, 1923.

KK

Particular description of goods.—Medicine for the Treatment of Epileptic Maladies.

Claims use since Aug. 24, 1923.

Ser. No. 180,978. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE GREIST MANUFACTURING CO., New Haven, Conn. Filed May 22, 1923.

DO-ALL-LAMP

No claim is made to the exclusive use of the word "Lamp" apart from the mark shown in the drawing.

Particular description of goods.—Portable Electric Lamps.

Claims use since May 10, 1923.

Ser. No. 181,006. (CLASS 39. CLOTHING.) THE BETTMANN-DUNLAP COMPANY, Cincinnati, Ohio. Filed May 23, 1923.

K-O

Particular description of goods.—Leather Boots and Shoes.

Claims use since July 1, 1907.

Ser. No. 181,007. (CLASS 39. CLOTHING.) THE BETTMANN-DUNLAP COMPANY, Cincinnati, Ohio. Filed May 23, 1923.

DUNLAP

Particular description of goods.—Leather Boots and Shoes.
Claims use since Nov. 1, 1903.

Ser. No. 181,022. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMPICO INDIAN MEDICINE CO., Beloit, Wis. Filed May 23, 1923.



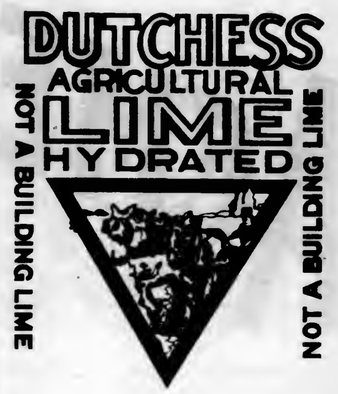
Particular description of goods.—Medicines for Disorders of the Stomach, Indigestion, Gases, Loss of Appetite, Catarrh, Ulcers and Tumors, Liver Disorders, Old Sores, Nerve Trouble, Kidney and Bladder Disorders, Dropsy, Lumbago, Heart Trouble, Rheumatism, Pimples, Boils, Eczema, External Preparation for Aches and Pains, and a Female Tonic for Backache, Dizziness, Female Trouble, Headache, Nervousness, Intestinal Disorders, Constipation, and Run-Down and Worn-Out Systems.
Claims use since Aug. 1, 1922.

Ser. No. 181,025. (CLASS 39. CLOTHING.) JOHN HOLLBACH COMPANY, Paterson, N. J. Filed May 23, 1923.

EVERCLING

Particular description of goods.—Corsets, Brassières, Bust Supporters, Garters, Bandeaux, and Corset Waists.
Claims use since Oct. 1, 1922.

Ser. No. 181,128. (CLASS 10. FERTILIZERS.) THE KELLEY ISLAND LIME AND TRANSPORT COMPANY, Cleveland, Ohio. Filed May 25, 1923.



Mark consists of a picture of a team of horses, driver, and plow within a triangle, with the words "Duchess Agricultural Lime Hydrated" written above the same and the words "Not a Building Lime" written on each side. Said The Kelley Island Lime and Transport Company hereby disclaims the use of the words "Agricultural Lime," "Hydrated," and "Not a Building Lime" apart from the mark shown on said drawing.
Particular description of goods.—Hydrated Lime for Agricultural Purposes.
Claims use since Sept. 1, 1917.

Ser. No. 181,153. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) SOUTHERN YARN EXCHANGE, Baltimore, Md. Filed May 25, 1923.

ARKAST

Particular description of goods.—Art Needlework—Namely, Textile Fabrics Which Have Been Stamped Ready for Embroidery.
Claims use since May 1, 1923.

Ser. No. 181,235. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AMERICAN CHEMICAL PAINT COMPANY, Philadelphia, Pa. Filed May 28, 1923.

A.C.P.

Particular description of goods.—Water-Soluble White Powder for Removing Oil and Grease, Cleaning Metal, Floors, Tile and Woodwork, Windows, and the Like.
Claims use since Mar. 27, 1923.

Ser. No. 181,239. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich. Filed May 28, 1923.

NUT-TUFA

Particular description of goods.—Confection Made from Sugar and Nuts.
Claims use since May 14, 1923.

Ser. No. 181,247. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CLIO & CIE., INC., New York, N. Y. Filed May 28, 1923.

Clio

Particular description of goods.—Shaving Soaps and Shaving Creams in the Form of Soap Cream for Use in Shaving.
Claims use since about May 6, 1923.

Ser. No. 181,291. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOUISVILLE CEREAL MILL CO., Louisville, Ky. Filed May 28, 1923.



No claim made to any of the printed matter on the drawing except the words "Hee Haw."
Particular description of goods.—Horse and Mule Feed.
Claims use since about June 1, 1921.

Ser. No. 181,316. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) SCHNEIDER & HYMAN, New York, N. Y. Filed May 28, 1923.

LOVE-NEST

Particular description of goods.—Finger Rings.
Claims use since about Mar. 25, 1923.

Ser. No. 181,341. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MILTON EDWARD HISEY, Painesville, Ohio. Filed May 29, 1923.

VITO

Particular description of goods.—Preparation for the Treatment of Pyorrhea.
Claims use since Jan. 10, 1920.

Ser. No. 181,409. (CLASS 39. CLOTHING.) LORD & TAYLOR, New York, N. Y. Filed May 31, 1923.

Cavalier

Particular description of goods.—Suits, Skirts, Blouses, Jacquettes, Women's Hats, and Neckwear, as Follows, to wit—Fichus, Guimpes, Jabots, Ruffs, and Stoles.
Claims use since May 19, 1923.

Ser. No. 181,426. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) STORM ROYALTY COMPANY, St. Louis, Mo. Filed May 31, 1923.

Torrent

Particular description of goods.—Clothes-Washing Machines.
Claims use since Apr. 9, 1923.

Ser. No. 181,491. (CLASS 45. BEVERAGES, NONALCOHOLIC.) JAMES A. MITCHELL, doing business as Denison Bottling Works, Denison, Iowa. Filed June 2, 1923.

GOLD BOND

Particular description of goods.—The Following Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks: Cream Soda, Lemon Sour, Root Beer, and Strawberry, Lemon, Grape, Orange, Cherry, Raspberry, and Blackberry Sodas, and Extracts and Concentrated Sirups for Use in the Manufacture of Soft Drinks.
Claims use since Jan. 1, 1918.

Ser. No. 181,521. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) FANSTEEL PRODUCTS COMPANY, INC., North Chicago, Ill. Filed June 4, 1923.

FANSTEEL

Particular description of goods.—Molybdenum and Tantalum.
Claims use since July 8, 1918.

Ser. No. 181,535. (CLASS 39. CLOTHING.) NEMO HAT COMPANY, New York, N. Y. Filed June 4, 1923.

Pierrette

Trade-mark consists of the word "Pierrette."
Particular description of goods.—Ladies', Misses', and Children's Hats and Caps.
Claims use since Oct. 1, 1922.

Ser. No. 181,541. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS E. SMITH, doing business as T. E. Smith Medicine Co., Houston, Tex. Filed June 4, 1923.

TEX RET TR

Particular description of goods.—Liver Tablet.
Claims use since Aug. 19, 1923.

Ser. No. 181,544. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) STORY & CLARK PIANO CO., Chicago, Ill. Filed June 4, 1923.

REPRO-PHRASO

Particular description of goods.—Pianos and Piano Players.
Claims use since Apr. 10, 1923.

Ser. No. 181,557. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BUSSE BAKING COMPANY, South Bend, Ind. Filed June 5, 1923.

BUSY BEE

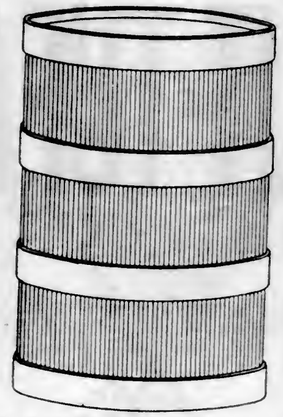
Particular description of goods.—Bread and Cake.
Claims use since May 21, 1923.

Ser. No. 181,576. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THYRO-LOGEN LABORATORIES, INC., Los Angeles, Calif. Filed June 5, 1923.

THYRO-LOGEN

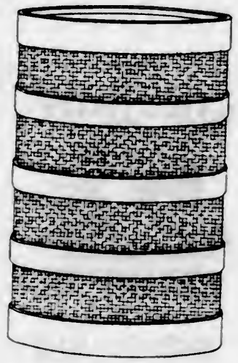
Particular description of goods.—Halogen-Bearing Food for the Thyroid Gland.
Claims use since about Feb. 20, 1923.

Ser. No. 181,701. (CLASS 2. RECEPTACLES.) SEYMOUR & PECK COMPANY, Chicago, Ill. Filed June 8, 1923.



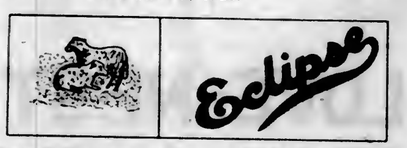
No claim is made to the representation of the drum apart from the mark shown in the drawing. The trade-mark consists of spaced-apart red bands encircling the drum substantially as shown.
Particular description of goods.—Shipping Drums.
Claims use since the early part of 1898.

Ser. No. 181,702. (CLASS 2. RECEPTACLES.) SEYMOUR & PECK COMPANY, Chicago, Ill. Filed June 8, 1923.



No claim is made to the representation of the drum apart from the mark shown in the drawing. The trade-mark consists of spaced-apart gold colored bands encircling the drum, substantially as shown.
Particular description of goods.—Shipping Drums.
Claims use since Mar. 12, 1921.

Ser. No. 181,719. (CLASS 39. CLOTHING.) ISODOR BERGER, doing business as Eclipse Knitting Mills, Newark, N. J. Filed June 9, 1923.



Particular description of goods.—Sweaters.
Claims use since Feb. 14, 1914.

Ser. No. 181,808. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARCHBOLD-GIGER & CO., Paterson, N. J. Filed June 11, 1923.



No claim is made to "140 Lbs. Flour Paterson, N. J." apart from the mark as shown.
Particular description of goods.—Wheat Flour.
Claims use since 1916.

Ser. No. 181,871. (CLASS 11. INKS AND INKING MATERIALS.) STANDARD INK MFG. CO., Minneapolis, Minn. Filed June 11, 1923.



No claim made to the use of the words "Ink Paste" apart from the mark shown in the drawing. The portrait is that of Frank B. Cooney, secretary of corporation.
Particular description of goods.—Concentrated Writing Ink.
Claims use since September, 1922.

Ser. No. 181,882. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE ENGINEER COMPANY, New York, N. Y. Filed June 12, 1923.

ENCO

Particular description of goods.—Oil Burners, Balanced Draft Equipment for Furnaces, Stoker-Control Equipment, and Baffle-Wall Constructions.
Claims use since Jan. 1, 1921.

Ser. No. 181,942. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE DAYTON ENGINEERING LABORATORIES COMPANY, Dayton, Ohio. Filed June 13, 1923.

DELCO

Particular description of goods.—Electrical Starting, Lighting, and Ignition Apparatus and Parts Thereof Employed with Internal-Combustion Engines for Use on Automobiles, Motor Boats, Aircraft, and the Like.
Claims use since 1911.

Ser. No. 181,951. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ADOLF D. LINDEMANN & SON, New York, N. Y. Filed June 13, 1923.



Particular description of goods.—Perfume, Toilet Water, Sachet, Cold Cream, Greaseless Cream, Almond Cream, Face Powder, Rouge, Lip Stick, Deodorant, Hair Tonic, Talcum Powder, Eyebrow Pencil, Brilliantine, Tooth Paste, and Liquid Nail Polish.
Claims use since Sept. 24, 1914.

Ser. No. 181,988. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES A. HELLWIG, San Francisco, Calif. Filed June 14, 1923.



Fruit O'Cal

The drawing is not intended to indicate color.
Particular description of goods.—Cake.
Claims use since Mar. 1, 1923.

Ser. No. 182,029. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GLEN M. WILEY, Dayton, Ohio. Filed June 14, 1923.

WHIRLEYS

Trade-mark "Whirley."
Particular description of goods.—Excavating Machines and Hoisting Machines.
Claims use since December, 1921.

Ser. No. 182,147. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDGAR P. HARRISON & SON, Newark, N. J. Filed June 18, 1923.

Chocomalt

Particular description of goods.—Cream Malted Chocolate—Namely, for Food Purposes.
Claims use since Aug. 24, 1922.

Ser. No. 182,179. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PORTLAND FLOUR MILLS CO., Portland, Oreg. Filed June 18, 1923.

CASCADIA

Particular description of goods.—Wheat Flour.
Claims use since September, 1886.

Ser. No. 182,276. (CLASS 39. CLOTHING.) THE WARNER BROTHERS COMPANY, Bridgeport, Conn. Filed June 20, 1923. Under section 9 of the act of Mar. 19, 1920.

Warner's

Particular description of goods.—Brassières, Bandeaux, Bandeau-Girdle Combinations, and Girdle Waists.
Claims use for one year.

Ser. No. 182,313. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LAKESIDE BISCUIT CO., Toledo, Ohio, and Detroit, Mich. Filed June 21, 1923.

ICEBERG

Particular description of goods.—Sugar Wafers, Cookies, Biscuits.
Claims use since 1914.

Ser. No. 182,399. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CITY ELECTRIC COMPANY, Syracuse, N. Y. Filed June 25, 1923.

CITELCO

Particular description of goods.—The Following Electrical Apparatus—Namely, Lamps, Lamp Sockets, Motors, Switches, Fuses, and Connecting Parts.
Claims use since Oct. 1, 1922.

Ser. No. 182,418. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE IMPERIAL ICE AND DEVELOPMENT COMPANY, Riverside, Calif. Filed June 25, 1923.

QUALITY VALUE IMPERIAL ICE SERVICE

The words "Quality," "Value," "Service," and "Ice" are disclaimed apart from the mark.
Particular description of goods.—Ice.
Claims use since June 6, 1923.

Ser. No. 182,490. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) H. A. WEYMANN & SON, INC., Philadelphia, Pa. Filed June 26, 1923.

Varsity

The mark consists of the word "Varsity."
Particular description of goods.—Band and Orchestral Musical Instruments—Namely, Mandolins, Banjos, Guitars, Ukuleles, Violins, Drums, Cornets, Trombones, and Trumpets.
Claims use since May 19, 1923.

Ser. No. 182,541. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET BOOKS.) INDIANAPOLIS SADDLERY COMPANY, Indianapolis, Ind. Filed June 28, 1923.

HUSKY

Particular description of goods.—Horse Collars.
Claims use since June 15, 1922.

Ser. No. 182,611. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) RIVERSIDE MANUFACTURING COMPANY, Moultrie, Ga. Filed June 29, 1923.

NOMAR

Particular description of goods.—Service Covers for Automobiles and Parts Thereof—Namely, for Fenders, Cowls, Lamps, Radiators, Hoods, Seats, Doors, Steering Wheels, Gear-Shift Handles, Brake-Lever Handles, Floors, Roofs, Tires, Upholstery, and All Other Exposed Parts.
Claims use since March, 1922.

Ser. No. 182,704. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES C. DEMPSTER, Toronto, Ontario, Canada. Filed July 2, 1923.

STAMINA BREAD. "The Purest Staff of Energy"

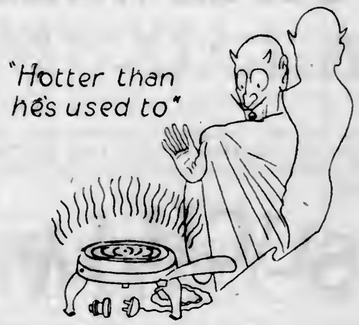
No claim is made to the use of the word "Bread" in connection with the above trade-mark.
Particular description of goods.—Bread.
Claims use since about Oct. 1, 1922.

Ser. No. 182,711. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE LIBERTY GAUGE AND INSTRUMENT COMPANY, Cleveland, Ohio. Filed July 2, 1923.

Liberty Hot Spot

Particular description of goods.—Electric Hot Plates.
Claims use since Sept. 12, 1922.

Ser. No. 182,712. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE LIBERTY GAUGE AND INSTRUMENT COMPANY, Cleveland, Ohio. Filed July 2, 1923.



Particular description of goods.—Electric Hot Plates.
Claims use since Sept. 12, 1922.

Ser. No. 182,755. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE KING MILLING CO., Lowell, Mich. Filed July 3, 1923.

MONTICELLO

Particular description of goods.—Wheat Flour.
Claims use since October, 1920.

Ser. No. 182,834. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio. Filed July 5, 1923. Under ten-year proviso.

FLUID HYDRASTIS

Particular description of goods.—Nonalcoholic Solution of the Active Medicinal Principles of Hydrastis Canadensis Used in Affections of the Mucous Surfaces, in Atomic Gastro-Intestinal Affections, as a Local Application to Offensive Ulcerating Surfaces, and as a Tonic.
Claims use since 1878.

Ser. No. 182,839. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCHERING & GLATZ, INC., New York, N. Y. Filed July 5, 1923.

ATOPHANYL

Particular description of goods.—Medicinal Preparation Used for Extravenous or Intramuscular Injection Employed in the Treatment of Gout, Rheumatism, Arthritis, and Inflammatory Conditions in General.
Claims use since June 14, 1923.

Ser. No. 182,847. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HERMAN R. ROSE, doing business as Shamrock Mfg. Co., Newark, N. J. Filed July 5, 1923.

Shamrock

Particular description of goods.—Radio Receiving Sets and Parts Thereof.
Claims use since May 1, 1922.

Ser. No. 182,881. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Mrs. ELMIRA SMITH, doing business as Mrs. S. G. Smith, Harrison, Ga. Filed July 6, 1923.

GRANDMA SMITH'S
NINE
WONDER

Particular description of goods.—Medicinal Preparation for the Treatment of Pains, Aches, Bruises, Cuts, Sores, Sore Throat, Cramps, Sore Muscles, and Pneumonia.
Claims use since about Jan. 6, 1921.

Ser. No. 182,978. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) LINCOLN PAINT & COLOR COMPANY, Lincoln, Nebr. Filed July 9, 1923. Under section 9, act of Mar. 19, 1920.

LINCOLN

Particular description of goods.—Floor Brushes, Paintbrushes, Brushes for Painters' Use, Dustbrushes, and Broom Brushes.
Claims use since Mar. 15, 1920.

Ser. No. 182,979. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WILLIAM E. MARSHALL, Chicago, Ill. Filed July 9, 1923.

UNIVERSAL
ELECTRIC LOG



No claim is made to the words "Electric Log" nor to the representation of the goods apart from the mark shown in the drawing.
Particular description of goods.—Artificial Log for Fireplaces and Electric Lights and Connections for Rendering the Log Luminous and Causing the Same to Simulate Incandescence.
Claims use since June 1, 1923.

Ser. No. 182,992. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) PENINSULAR PAINT & VARNISH COMPANY, Hamtramck, Mich. Filed July 9, 1923.

PENINSULAR

Particular description of goods.—Floor Brushes, Paintbrushes, Brushes for Painters' Use, Dustbrushes, and Broom Brushes.
Claims use since Sept. 1, 1922.

Ser. No. 183,006. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SIMONDS SAW AND STEEL COMPANY, Fitchburg, Mass. Filed July 9, 1923.

TUNGSWELD

Particular description of goods.—Machine Knives and Shears.
Claims use since Jan. 15, 1923.

Ser. No. 183,008. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SUCHAR PROCESS CORPORATION, Dover, Del. Filed July 9, 1923.

SUCHAR

Particular description of goods.—Filtering, Clarifying, and Deodorizing Carbons.
Claims use since Nov. 1, 1921.

Ser. No. 183,119. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MOSS-SCHURY MFG. CO., INC., Detroit, Mich. Filed July 12, 1923.

Repeater

Particular description of goods.—Radio and Telephone Apparatus.
Claims use since Oct. 1, 1922.

Ser. No. 183,156. (CLASS 39. CLOTHING.) S. KARP, New York, N. Y. Filed July 13, 1923.

MADEMOISELLE
PETITE

Particular description of goods.—Ladies', Misses', and Children's Coats, Capes, Wraps, Mantles, Jackets, and Hats; Gloves Made of Leather, Rubber, Fabric, and Combinations Thereof; Suits, Dresses, Gowns, Skirts, and Riding Habits; Shoes Made of Leather, Rubber, Fabric, and Combinations Thereof; Sweaters, Belts for Personal Wear, Hose Supports, Waists, Blouses, Brassières, Petticoats, Camisoles, Knickers, Bloomers, Union Suits, Kimonos, Negligees, Bath Robes, Aprons, Bathing Apparel, Sleeping Garments, Garters, Hose, and Stockings.
Claims use since December, 1922.

Ser. No. 183,165. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STEPHEN H. SACHAKLIAN, Hartford, Conn. Filed July 13, 1923.

MOTH-Finis

Particular description of goods.—Insecticides.
Claims use since June 1, 1922.

Ser. No. 183,194. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CABELL CORPORATION OF BALTIMORE CITY, Baltimore, Md. Filed July 14, 1923.

MEXILLA

Particular description of goods.—Imitation Vanilla.
Claims use since June 25, 1923.

Ser. No. 183,195. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MONTGOMERY B. COHEN, doing business as Radio Equipment Company, Boston, Mass. Filed July 14, 1923.

RADECO

Particular description of goods.—Fuses, Protective Devices for Radio Apparatus, Adapters, Loud Speakers, Batteries for Radio Apparatus, and Radio Receiving Sets.
Claims use since June, 1920.

Ser. No. 183,329. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BEDSOLE-COLVIN DRUG CO., Mobile, Ala. Filed July 17, 1923.

FLY FUNIRAL
DESTROYS
FLIES AND MOSQUITOS

No claim made to the words "Destroys Flies and Mosquitoes" except in the association shown.
Particular description of goods.—Insect Destroyer.
Claims use since April, 1922.

Ser. No. 183,353. (CLASS 39. CLOTHING.) LEWIS M. WEED CO. INC., Binghamton, N. Y. Filed July 17, 1923.

THE ORIGINAL DRYBAK
DRY BACK OR MONEY BACK

Particular description of goods.—Knee or Full Length and Lace or Button Bottom Breeches, Coats, Sheepskin or Cloth Hunting Coats, Vests, Hunting Vests; Dress, Negligee and Work Shirts; Caps, Men's and Women's Outing Suits; Pants.
Claims use since January, 1900.

Ser. No. 183,357. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BUFFALO CHANDELIER CORPORATION, Buffalo, N. Y. Filed July 18, 1923.

METEOR

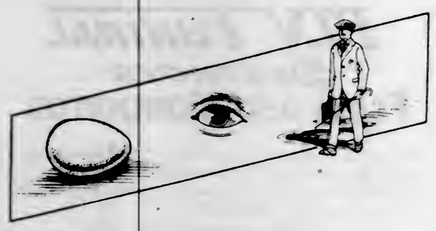
Particular description of goods.—Electric-Lighting Fixtures and Hangers and Illuminating Bowls Adapted Thereto.
Claims use since Feb. 1, 1923.

Ser. No. 183,425. (CLASS 12. CONSTRUCTION MATERIALS.) THE UNITED STATES ASPHALT REFINING COMPANY, New York, N. Y. Filed July 18, 1923.

A KWA FALT

Particular description of goods.—Asphalt.
Claims use since on or about July 9, 1923.

Ser. No. 183,445. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES F. ECKMANN, Springfield, Oreg. Filed July 19, 1923.



Particular description of goods.—Cough Drops.
Claims use since June 15, 1922.

Ser. No. 183,447. (CLASS 39. CLOTHING.) ELITE FUR SHOP, INC., Kansas City, Mo. Filed July 19, 1923.

"Yours Fur Service"

Particular description of goods.—Fur Coats, Capes, Neck Pieces, Collars, and Jackets.
Claims use since May 31, 1922.

Ser. No. 183,458. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE THOMPSON-BARLOW COMPANY, INC., New York, N. Y. Filed July 19, 1923.

CYTAX

Particular description of goods.—Medicinal Preparation for the Treatment of Obesity.
Claims use since May 1, 1923.

Ser. No. 183,537. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PAL RADIO COMPANY, West Hoboken, N. J. Filed July 21, 1923.

"PAL"

Particular description of goods.—Radio Receiving Apparatus and Part Thereof—Namely, Head Phones, Tuning Coils, and Rectifying Crystal Detectors.
Claims use since July 1, 1923.

Ser. No. 183,548. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) KATE CARPENTER RAWLES, Fernley, Nev. Filed July 17, 1923.



No claim is made to the words "Kleen Hand Prepared Stove Polisher" apart from the mark shown in the drawing.
Particular description of goods.—A Prepared Textile Stove Polisher.
Claims use since June 18, 1923.

Ser. No. 183,674. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) WILLIAM T. SMOOT, Baltimore, Md. Filed July 25, 1923.

Red White and Blue

Particular description of goods.—Malt Sirup.
Claims use since on or about Oct. 1, 1922.

Ser. No. 183,726. (CLASS 45. BEVERAGES, NONALCOHOLIC.) UNITED BEVERAGE PRODUCTS COMPANY, Chicago, Ill. Filed July 26, 1923.

Twinkle

Particular description of goods.—Nonalcoholic, Maltless, Concentrated Sirups and Beverages Sold as Soft Drinks.
Claims use since June 8, 1923.

Ser. No. 183,753. (CLASS 39. CLOTHING.) MILLER & CANARY, Green Island, N. Y. Filed July 27, 1923.



No claim is made to the word "Brand" and the words "Green Island, N. Y." apart from the mark shown on the drawing.
Particular description of goods.—Aprons, Skirts, and Rompers.
Claims use since Feb. 16, 1909.

Ser. No. 183,792. (CLASS 39. CLOTHING.) BETTMANN-KLEINHAUSER CLOTHING COMPANY, St. Louis, Mo. Filed July 28, 1923.

TRADE BEEKAY MARK

No claim is made to the exclusive use of the words "Trade Mark."
Particular description of goods.—Suits and Overcoats for Children and Men.
Claims use since about July 1, 1918.

Ser. No. 183,793. (CLASS 38. PRINTS AND PUBLICATIONS.) CLARENCE P. BOALS, doing business as The Americanese Society of New York, Buffalo, N. Y. Filed July 28, 1923.

NYMGYM

Particular description of goods.—Instruction Books Forming Parts of a Course of Instruction and Exercises in Synonyms and Antonyms and Kindred Subjects for the Purposes of Developing and Enlarging the Vocabulary.
Claims use since July 20, 1923.

Ser. No. 183,805. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOLVORA, INC., New York, N. Y. Filed July 28, 1923.

SOLVORA

Particular description of goods.—Liquid Dentifrice and Also Liquid Cream Dentifrice.
Claims use since June 15, 1923.

Ser. No. 183,811. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVID ANSEHL, doing business as The Beauty House, St. Louis, Mo. Filed July 30, 1923.

BRIGHTIZE

The mark consists of the word "Brightize."
Particular description of goods.—Toilet Preparation for the Eyes.
Claims use since Dec. 20, 1922.

Ser. No. 183,818. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBERT CARMEL, doing business as The Mount Carmel Co., Baltimore, Md. Filed July 30, 1923.



Particular description of goods.—Snuff Used for Medicinal Purposes.
Claims use since July 21, 1923.

Ser. No. 183,829. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) M. GLAUBER & COMPANY, New York, N. Y. Filed July 30, 1923.

SEWERINE

Particular description of goods.—Cleaning and Disinfectant Preparation.
Claims use since about July 13, 1923.

Ser. No. 183,830. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IRWIN J. HARRIS, doing business as Alopex Products Company, St. Louis, Mo. Filed July 30, 1923.

ALOPEX

Particular description of goods.—Preparation for Growing Hair and Eradicating Dandruff.
Claims use since June 30, 1923.

Ser. No. 183,832. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOOD RIVER SPRAY COMPANY, Hood River, Oreg. Filed July 30, 1923.

FLY-DI

Particular description of goods.—Insecticide.
Claims use since about June 1, 1923.

Ser. No. 183,841. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAISON MENDESSOLLE, San Francisco, Calif. Filed July 30, 1923.

FONTAINEBLEAU

Particular description of goods.—Perfume, Talcum Powder, Sachet Powder, and Face Powder.
Claims use since Nov. 24, 1922.

Ser. No 183,847. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MORE-JONES BRASS & METAL CO., St. Louis, Mo. Filed July 30, 1923.

ARCTIC

Particular description of goods.—Bronze Bearings.
Claims use since about 1900.

Ser. No. 183,859. (CLASS 12. CONSTRUCTION MATERIALS.) FRANK R. SCHULZ, St. Louis, Mo. Filed July 30, 1923.

MARVEL

Particular description of goods.—Luting Composition.
Claims use since on or about Jan. 8, 1923.

Ser. No. 183,865. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) U. S. RADIO COMPANY, St. Louis, Mo. Filed July 30, 1923.

AERIALOT

Particular description of goods.—Plugs for Connecting a Radio Receiving Set to an Electric-Light Circuit.
Claims use since on or about June 1, 1922.

Ser. No. 183,868. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARTTER WEAVER, doing business as Weaver Specialty Company, Pittsburgh, Pa. Filed July 30, 1923.



Particular description of goods.—Soldering Paste or Flux.
Claims use since Mar. 8, 1907.

Ser. No. 183,880. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) RICHARD HUDNUT, New York, N. Y. Filed July 31, 1923.

DEAUVILLE

Particular description of goods.—Soap.
Claims use since Mar. 6, 1923.

Ser. No. 183,890. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE RADIUM EMANATION CORPORATION, New York, N. Y. Filed July 31, 1923.



Particular description of goods.—Radium.
Claims use since Jan. 5, 1923.

Ser. No. 183,997. (CLASS 27. HOROLOGICAL INSTRUMENTS.) LEO R. STRAUS, New York, N. Y. Filed Aug. 2, 1923.

LEORS

The mark consists of the word "Leors."
Particular description of goods.—Watches.
Claims use since Jan. 1, 1923.

Ser. No. 184,024. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DOMESTIC DEVICES CORPORATION, New York, N. Y. Filed Aug. 3, 1923.

KEEP KEEN

Trade-mark consists of the words "Keep-Keen."
Particular description of goods.—Blade Sharpeners.
Claims use since June 1, 1923.

Ser. No. 184,029. (CLASS 15. OILS AND GREASES.) THE HARVEY OIL CO., Cleveland, Ohio. Filed Aug. 3, 1923.

HIGH SPEED

Particular description of goods.—Lubricants.
Claims use since 1908.

Ser. No. 184,064. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CALIFORNIA FRUIT GROWERS EXCHANGE, Los Angeles, Calif. Filed Aug. 4, 1923.

Sunkist

Particular description of goods.—Beverage-Dispensing Fountains.
Claims use since Mar. 8, 1923.

Ser. No. 184,094. (CLASS 12. CONSTRUCTION MATERIALS.) THE S. OBERMAYER CO., Chicago, Ill. Filed Aug. 4, 1923.

ESSO BOND

Particular description of goods.—Furnace Cement in Laying Up Fire Brick and Kindred Uses.
Claims use since Oct. 1, 1921.

Ser. No. 184,129. (CLASS 38. PRINTS AND PUBLICATIONS.) JOHN L. FRAZIER, Washington, D. C. Filed Aug. 6, 1923.



Disclaimer is hereby made to the words "Service Always" appearing in the drawing apart from the mark shown.
Particular description of goods.—Daily Publication.
Claims use since July 23, 1923.

Ser. No. 184,141. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MUTUAL OIL COMPANY, Kansas City, Mo. Filed Aug. 6, 1923.



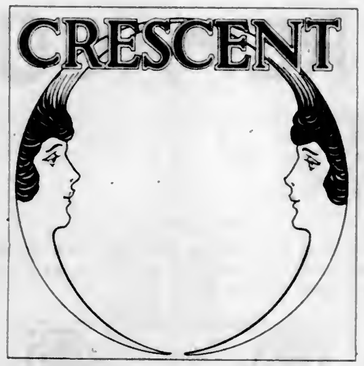
All wording appearing on the drawing, being descriptive of the goods, are hereby disclaimed in the statement apart from the mark shown.
Particular description of goods.—Sweeping Compound.
Claims use since Mar. 15, 1923.

Ser. No. 184,168. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) KATZ & OGUSH, INC., New York, N. Y. Filed Aug. 7, 1923.

COMMERCIAL

Particular description of goods.—Finger Rings, Bar Pins, Scarf Pins, Bracelets, Sautoirs, Watch Chains, Gem Settings, Mesh Bags, Vanity Cases, Barrettes, Brooches, Belt Buckles, Collar Pins, Cigarette Cases, Cigar Cutters, Collar Buttons, Earrings, Watch Fobs, Necklaces, Neck Chains, Necklace Clasps, Medals, Cuff Buttons, Shoe Buckles, Lockets, Tie Clasps, Watch-Chain Snaps, and Veil Pins, All of the Above Articles Being Made of or Coated with Precious Metal.
Claims use since July 2, 1923.

Ser. No. 184,171. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MAURICE LEVY, New York, N. Y. Filed Aug. 7, 1923.



Particular description of goods.—Powder Puffs.
Claims use since June 15, 1923.

Ser. No. 184,217. (CLASS 2. RECEPTACLES.) THE SHEARER & MCCARTHY CORP., Camden, N. J. Filed Aug. 8, 1923.



The color lining is disclaimed apart from the rest of the mark as shown.
Particular description of goods.—Baskets.
Claims use since Aug. 8, 1922.

Ser. No. 184,230. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) BASKIN BROTHERS, New York, N. Y. Filed Aug. 9, 1923.



Particular description of goods.—Finger Rings, Bar Pins, Scarf Pins, Earrings.
Claims use since January, 1907.

Ser. No. 184,264. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE REYNOLDS MACHINE COMPANY, Massillon, Ohio. Filed Aug. 9, 1923.

REMACO

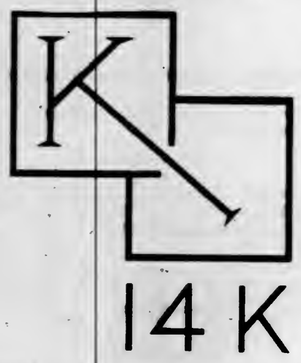
Particular description of goods.—Fabric-Tire Molds, Cord-Tire Molds, Solid Cores, Collapsible Cores, Curing Rings or Bowl Rings, Air-Bag Molds, Bead Molds, and Bead Rings.
Claims use since Jan. 15, 1923.

Ser. No. 184,286. (CLASS 15. OILS AND GREASES.) THE KENTUCKY INDEPENDENT OIL COMPANY, Covington, Ky. Filed Aug. 10, 1923.



In the present application the right to the use of the word "Quality" apart from the mark shown on the drawing is disclaimed.
Particular description of goods.—Motor Oil and Gasoline.
Claims use since July, 1911.

Ser. No. 184,314. (CLASS 27. HOROLOGICAL INSTRUMENTS.) AARON KAMION, doing business as A. Kamion, New York, N. Y. Filed Aug. 10, 1923.



The symbol "14 K" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Watchcases.
Claims use since on or about July 9, 1923.

Ser. No. 184,337. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) GEO. R. GIBSON CO., New York, N. Y. Filed Aug. 11, 1923.

Clinic Model

The word "Model" is disclaimed apart from the mark as shown on the drawing.
Particular description of goods.—Toothbrushes.
Claims use since July 6, 1923.

Ser. No. 184,351. (CLASS 37. PAPER AND STATIONERY.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed Aug. 11, 1923.



No claim is made to the words "Folded Towels" apart from the mark shown.
Particular description of goods.—Folded Towels.
Claims use since Feb. 9, 1922.

Ser. No. 184,356. (CLASS 37. PAPER AND STATIONERY.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed Aug. 11, 1923.



Particular description of goods.—Toilet Paper.
Claims use since Mar. 30, 1922.

Ser. No. 184,392. (CLASS 17. TOBACCO PRODUCTS.) A. COULAPIDES, INC., New York, N. Y. Filed Aug. 13, 1923.



No claim is made to the words "Egyptian Cigarette" apart from the mark as shown.
Particular description of goods.—Cigarettes and Tobacco.
Claims use since Aug. 1, 1923.

Ser. No. 184,402. (CLASS 40. FANCY GOODS, FURNISHINGS AND NOTIONS.) HATJY GEORGE BROS., New York, N. Y. Filed Aug. 13, 1923.

Stereo Tip

The word "Tip" appearing on the drawing is disclaimed apart from the mark shown.
Particular description of goods.—Shoe Lacers.
Claims use since January, 1919.

Ser. No. 184,440. (CLASS 39. CLOTHING.) ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed Aug. 14, 1923.



Particular description of goods.—Men's Neckties.
Claims use since about June 1, 1923.

Ser. No. 184,478. (CLASS 2. RECEPTACLES.) ST. REGIS PAPER COMPANY, Watertown, N. Y. Filed Aug. 14, 1923.



No claim is made for the words "This is a fibre shipping case" apart from the mark as shown.
Particular description of goods.—Fiber Boxes.
Claims use since June 1, 1923.

Ser. No. 184,545. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) FULTON BAG & COTTON MILLS, Atlanta, Ga. Filed Aug. 16, 1923.



Particular description of goods.—Waterproof Duck and Tarpaulins.
Claims use since June 10, 1923.

Ser. No. 184,564. (CLASS 37. PAPER AND STATIONERY.) ROYAL CARD & PAPER COMPANY, New York, N. Y. Filed Aug. 16, 1923.



LIBERTY CLASP

The word "Clasp" is disclaimed apart from the mark shown.
Particular description of goods.—Stationery—Namely, Envelopes.
Claims use since September, 1914.

Ser. No. 184,632. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) A. W. BAYLIS CO., New York, N. Y. Filed Aug. 18, 1923.

ALPHAGRAM

Applicant's mark consists of the invented word "Alphagram."
Particular description of goods.—Table Damasks.
Claims use since July 25, 1923.

Ser. No. 184,681. (CLASS 17. TOBACCO PRODUCTS.) MARCELINO PEREZ & COMPANY, New York, N. Y. Filed Aug. 18, 1923.



No claim made to the exclusive use of the words "Seleccion de Luxe" apart from the mark shown on the drawing. The picture of the individual is fanciful.
Particular description of goods.—Cigars.
Claims use since Aug. 23, 1907.

Ser. No. 184,682. (CLASS 17. TOBACCO PRODUCTS.) MARCELINO PEREZ & COMPANY, New York, N. Y. Filed Aug. 18, 1923.



No claim is made to the exclusive use of the words "Seleccion Especial" and "Habana" and the representation of a box of cigars apart from the mark shown on the drawing.

Particular description of goods.—Cigars.

Claims use since about January, 1902.

Ser. No. 184,683. (CLASS 17. TOBACCO PRODUCTS.) MARCELINO PEREZ & COMPANY, New York, N. Y. Filed Aug. 18, 1923.



The picture of the individual is fanciful.

Particular description of goods.—Cigars.

Claims use since Aug. 9, 1895.

Ser. No. 184,701. (CLASS 39. CLOTHING.) WORTH WHILE GARMENT CO., Hicksville, Ohio. Filed Aug. 18, 1923.



Without waiving any common-law rights applicant disclaims the right to the word "Lingerie" apart from the association shown.

Particular description of goods.—Ladies', Misses', and Children's Undergarments and Nightgowns of Knitted or Textile Fabric.

Claims use since June 27, 1923.

Ser. No. 184,716. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE EXCEL ELECTRIC CO., Muncie, Ind, Filed Aug. 20, 1923.



Particular description of goods.—Electric Cookers.

Claims use since March, 1922.

Ser. No. 184,738. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) EDWIN B. MCKAY, Chicago, Ill. Filed Aug. 20, 1923.

Kayton

Particular description of goods.—Tire Treads.

Claims use since June. 15, 1923.

Ser. No. 184,747. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE NEW HAVEN CLOCK CO., New Haven, Conn. Filed Aug. 20, 1923.

Tat-Too Jr.

Particular description of goods.—Clocks.

Claims use since Aug. 17, 1923.

Ser. No. 184,755. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PRICE BROTHERS, Frederick, Md. Filed Aug. 20, 1923.



No claim is made to the words "Trade-Mark Registered."

Particular description of goods.—Water-Circulation Pumps for Automobile Engines.

Claims use since June 18, 1923.

Ser. No. 184,761. (CLASS 10. FERTILIZERS.) S. RAUH & SONS FERTILIZER COMPANY, Indianapolis, Ind. Filed Aug. 20, 1923.



Particular description of goods.—Tankage and Fertilizer.

Claims use since Aug. 6, 1923.

Ser. No. 184,772. (CLASS 37. PAPER AND STATIONERY.) TALLMAN, ROBBINS & COMPANY, Chicago, Ill. Filed Aug. 20, 1923.

The words "The" and "Line" do not form a part of the registration sought apart from the mark shown on the drawing.

Particular description of goods.—Loose-Leaf Binders for Use in Bookkeeping Systems.

Claims use since 1913.

Ser. No. 184,855. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOWLETT & HOCKMEYER CO., INC., New York, N. Y. Filed Aug. 22, 1923.



No claim is made to the rectangular figure surrounding the mark nor to the word "Corduroy" apart from the mark shown in the drawing.

Particular description of goods.—Corduroys, Velveteens, and Cotton Piece Goods.

Claims use since July 1, 1923.

Ser. No. 184,882. (CLASS 39. CLOTHING.) WILHOITE, EVANS & COHN INC., Los Angeles, Calif. Filed Aug. 22, 1923.



Particular description of goods.—Overalls; Men's Work Clothing.

Claims use since July 28, 1923.

Ser. No. 184,903. (CLASS 38. PRINTS AND PUBLICATIONS.) THE FINANCIER PUBLISHING CO., New York, N. Y. Filed Aug. 23, 1923.

The BANK DIRECTOR

Particular description of goods.—Financial Magazine Published Monthly.

Claims use since Sept. 1, 1922.

Ser. No. 184,946. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MARION TOOL WORKS, INC., Marion, Ind. Filed Aug. 24, 1923.



No claim is made to the use of the words "Steel Tools" and "Marion, Ind., U. S. A." apart from the mark shown on the drawing, all common-law rights, however, being reserved by applicant. The shading of the outer oval and the rectangular panel indicates gold, and the shading of the inner oval and the letters in the word "Crecoite" indicates blue.

Particular description of goods.—Steel Tools, Particularly Half Hatchets, Shingling Hatchets, Claw Hatchets, Scout Axes, Adze-Eye Nail Hammers, Ball Peen Hammers, Screw Drivers, Pike Mauls, Track Adzes, and Wrenches.

Claims use since June, 1922.

Ser. No. 184,963. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE DENVER TENT & AWNING COMPANY, Denver, Colo. Filed Aug. 25, 1923.

GYPSY

Particular description of goods.—Tents.

Claims use since September, 1921.

Ser. No. 184,968. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE HAYES-MESEROLE MFG. CO., INC., Milford, Conn. Filed Aug. 25, 1923.

Kleva-Klasp

Particular description of goods.—Barrettes Made of or Plated with Precious Metal.
Claims use since July 27, 1923.

Ser. No. 185,066. (CLASS 37. PAPER AND STATIONERY.) JOSEPH WEIL & SONS, Chicago, Ill. Filed Aug. 27, 1923.

"WHITE OAK"
BUTCHERS DRY FINISH PAPER
Much Better than the Ordinary so-called Butchers Paper
It is Blood-Proof — It is Waterproof
It is Strictly 40-Lb. Basis
It is made of the Best Sulphite — More Sheets per Lb.
TRY A TON AND SEE THE SAVING AND THE SATISFACTION

No claim made to the exclusive use of the words "Butchers Dry Finish Paper Much Better Than the Ordinary So-Called Butchers Paper It is Blood-Proof It is Waterproof It is Strictly 40-Lb. Basis It is Made of the Best Sulphite More Sheets per Lb. Try a Ton and See the Saving and the Satisfaction" apart from the mark shown in the drawing.
Particular description of goods.—Wrapping Paper.
Claims use since July 31, 1923.

Ser. No. 185,082. (CLASS 37. PAPER AND STATIONERY.) KEYSTONE BUSINESS SERVICE CO. INC., Scranton, Pa. Filed Aug. 28, 1923.

KEYSTONE
BUSINESS SERVICE
COMPANY, Inc.

Particular description of goods.—Blank Books.
Claims use since July 12, 1923.

Ser. No. 185,084. (CLASS 39. CLOTHING.) LINDER BROS., New York, N. Y. Filed Aug. 28, 1923.

Charmante

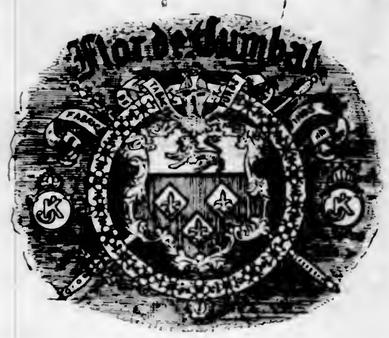
Particular description of goods.—Women's, Misses', and Children's Cloaks, Coats, Dresses, Suits, and Skirts.
Claims use since September, 1922.

Ser. No. 185,114. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Aug. 29, 1923.

Romeen

Particular description of goods.—Woolen Piece Goods.
Claims use since July 16, 1923.

Ser. No. 185,125. (CLASS 17. TOBACCO PRODUCTS.) JACOB KOPPEL, New York, N. Y. Filed Aug. 29, 1923.



Particular description of goods.—Cigars, Cigarettes, and Smoking Tobacco.
Claims use since Aug. 30, 1907.

Ser. No. 185,126. (CLASS 39. CLOTHING.) McLOUGHLIN TEXTILE CORPORATION, Utica, N. Y. Filed Aug. 29, 1923.

R P McLoughlin

The mark is the facsimile signature of R. P. McLoughlin.
Particular description of goods.—Caps, Sweaters, and Underwear of Knitted and Textile Fabrics for Men, Women, and Children—Namely, Knit and Cut and Sewed Underwear.
Claims use since Sept. 15, 1920.

Ser. No. 185,162. (CLASS 38. PRINTS AND PUBLICATIONS.) GEORGE D. SWARTZ, New York, N. Y. Filed Aug. 29, 1923.

MOTION PICTURE EDITION Original

The words "Motion Picture Edition" are not claimed apart from the mark as shown.
Particular description of goods.—Novelized Original Photoplay Stories Published from Time to Time.
Claims use since about Aug. 21, 1923.

Ser. No. 185,212. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FARREL FOUNDRY & MACHINE COMPANY, Ansonia, Conn., and Buffalo, N. Y. Filed Aug. 31, 1923.



The representation of the meshing double helical gear wheel and pinion is disclaimed except in the particular relation shown, and the legend "Reg. U. S. Pat. Off." is disclaimed.
Particular description of goods.—Gear-Cutting Machines and Parts Thereof, Pinion-Toothed Gear Cutters, Gearing, Gear Wheels, and Gear Pinions.
Claims use since on or about May 15, 1923.

Ser. No. 185,229. (CLASS 39. CLOTHING.) PIPER & SALERNO CO., INC., New York, N. Y. Filed Aug. 31, 1923.

Craigleigh

Particular description of goods.—Topcoats and Overcoats for Men, Women, and Children.
Claims use since July 1, 1923.

Ser. No. 185,237. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AMERICAN HONE CO., Olean, N. Y. Filed Sept. 1, 1923.

EXIDE

Particular description of goods.—Hone.
Claims use since Apr. 14, 1921.

Ser. No. 185,247. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MURREL O. DEVERS, doing business as Dim-Brite Manufacturing Company, Dayton, Ohio. Filed Sept. 1, 1923.

DIM-BRITE

Particular description of goods.—A Switch for Dimming the Electric Headlights of Automobiles and Motor Cycles.
Claims use since Dec. 20, 1921.

Ser. No. 185,251. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) DAVID B. HOSTETTER, doing business as Can Vas Bak Products Co., Indianapolis, Ind. Filed Sept. 1, 1923.



Particular description of goods.—Waterproofing, Softening, and Preserving Preparation for Leather.
Claims use since July 18, 1923.

Ser. No. 185,272. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) VULCAN RECORD CORPORATION, New York, N. Y. Filed Sept. 1, 1923.



For the purposes of trade-mark registration the word "Operettas" is disclaimed apart from the mark shown in the drawing, it being understood that no common-law rights are thereby waived by applicant.
Particular description of goods.—Sound Records for Phonographs and Talking Machines.
Claims use since on or about June 1, 1923.

Ser. No. 185,283. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) H. BEHLEN & BRO., New York, N. Y. Filed Sept. 4, 1923.

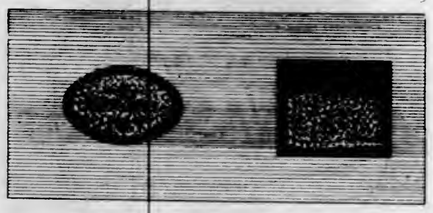


No claim made to the exclusive use of the words "Trade Mark" apart from the mark shown on the drawing.

Particular description of goods.—Cleaning and Rubbing Brushes, Sash Brushes, Artist Brushes, Lacquering Brushes, Graining Brushes, Glue Brushes, Flat Wall, Paint, and Filler Brushes, Varnish Brushes, Flowing Brushes, Painters' Dusters, and Counter Dusters.

Claims use since about 1893.

Ser. No. 185,290. (CLASS 39. CLOTHING.) FRIEDMAN BROS. & SONS NECKWEAR CO., INC., New York, N. Y. Filed Sept. 4, 1923.



No claim is made to the words "Bow Ties" and "New York" apart from the mark shown in the drawing. The background is lined to represent blue color, and the other lining indicates yellow color.

Particular description of goods.—Ties, Cravats, Four-in-Hand Ties, and Bow Ties.

Claims use since July 24, 1923.

Ser. No. 185,297. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE JACOBS BROS. CO., INC., Brooklyn, N. Y. Filed Sept. 4, 1923.

THE DETECTO

Particular description of goods.—Weighing Scales.

Claims use since January, 1920.

Ser. No. 185,342. (CLASS 39. CLOTHING.) KORN BROS., New York, N. Y. Filed Sept. 5, 1923.

KORNTEX

Particular description of goods.—Sweaters, Cardigan Jackets, Scarfs, Bathing Suits, Mufflers, Hosiery, Ladies', Men's and Children's Knitted and Textile Underwear, Men's Knitted Neckties, and Ladies' Bloomers.

Claims use since Mar. 1, 1923.

Ser. No. 185,364. (CLASS 39. CLOTHING.) THE DELAWARE GARMENT COMPANY, Delaware, Ohio. Filed Sept. 6, 1923.

TUGTOG

Particular description of goods.—Play and School Suits for Boys and Girls; Also Ladies' and Men's Knicker and Outing Suits.

Claims use since May 1, 1923.

Ser. No. 185,372. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MARKWELL MANUFACTURING CO., INC., New York, N. Y. Filed Sept. 6, 1923.

Markwell

Particular description of goods.—Hatchets, Hammers, Crate Openers, Tackers, and Tacking Machines.

Claims use since Jan. 1, 1920.

Ser. No. 185,396. (CLASS 39. CLOTHING.) WINNING, RATTNER CO., New York, N. Y. Filed Sept. 6, 1923.

Littlefelo Clothes

The exclusive use of the word "Clothes" is disclaimed apart from the mark as shown.

Particular description of goods.—Boys' Suits and Overcoats.

Claims use since Aug. 18, 1923.

Ser. No. 185,405. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) J. R. BEATON CO. INC., New York, N. Y. Filed Sept. 7, 1923.

"AS YOU LIKE IT"

Particular description of goods.—Laundry and Toilet Soap.

Claims use since Sept. 18, 1922.

Ser. No. 185,407. (CLASS 38. PRINTS AND PUBLICATIONS.) CARRIE E. BRADLEY, Cincinnati, Ohio. Filed Sept. 7, 1923.

"The Babys' Welfare"

Particular description of goods.—Monthly Publication.

Claims use since on or about July 1, 1922.

Ser. No. 185,412. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE L. D. CAULK COMPANY, Milford, Del. Filed Sept. 7, 1923.

MERCIREX

Particular description of goods.—Medicated Soap.

Claims use since June 16, 1923.

Ser. No. 185,468. (CLASS 38. PRINTS AND PUBLICATIONS.) KING FEATURES SYNDICATE, INC., New York, N. Y. Filed Sept. 7, 1923.

BARNEY GOOGLE AND SPARK PLUG

Particular description of goods.—Cartoons.

Claims use since Aug. 28, 1923.

Ser. No. 185,503. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SZABADY SOAP MFG. CO., INC., Perth Amboy, N. J. Filed Sept. 7, 1923.

SZABADY'S UNICUM SOAP

The use of the word "Soap" is disclaimed except in conjunction with the other elements of the trade-mark.

Particular description of goods.—Laundry Soap.

Claims use since Aug. 1, 1923.

Ser. No. 185,545. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VOSS & STERN, New York, N. Y. Filed Sept. 8, 1923.

TUSSETTA

Particular description of goods.—Silk and Cotton Piece Goods.

Claims use since Aug. 13, 1923.

Ser. No. 185,547. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE J. B. WILLIAMS COMPANY, Glastonbury, Conn. Filed Sept. 8, 1923.

"NEVER-SAY-DRY"

Particular description of goods.—Toilet and Shaving Soap, the Latter in the Form of Stick, Powder, and Cream.

Claims use since June 16, 1923.

Ser. No. 185,553. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BEAR MILL MANUFACTURING COMPANY, INC., New York, N. Y. Filed Sept. 10, 1923.

Flockette

Particular description of goods.—Cotton Cloth.

Claims use since Aug. 10, 1923.

Ser. No. 185,554. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LOUIS C. BERMAN, Chicago, Ill. Filed Sept. 10, 1923.

Master-tool

Trade-mark "Master-Tool."

Particular description of goods.—Lifting Jacks.

Claims use since May 27, 1922.

Ser. No. 185,570. (CLASS 38. PRINTS AND PUBLICATIONS.) F. W. DODGE CORPORATION, New York, N. Y. Filed Sept. 10, 1923.

The ARCHITECTVRAL RECORD

Particular description of goods.—Monthly Magazine.

Claims use since July, 1891.

Ser. No. 185,571. (CLASS 38. PRINTS AND PUBLICATIONS.) F. W. DODGE CORPORATION, New York, N. Y. Filed Sept. 10, 1923.

REAL ESTATE RECORD AND BUILDERS GUIDE

Particular description of goods.—Weekly Magazine.

Claims use since Oct. 7, 1882.

Ser. No. 185,572. (CLASS 38. PRINTS AND PUBLICATIONS.) F. W. DODGE CORPORATION, New York, N. Y. Filed Sept. 10, 1923.

The AMERICAN CONTRACTOR

Particular description of goods.—Weekly Magazine.

Claims use since 1886.

Ser. No. 185,579. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILLIAM GREEVER, doing business as Wundamova Company, Knoxville, Tenn. Filed Sept. 10, 1923.

WUNDAMOVA

Particular description of goods.—Cleansing Preparation for Household Use and Also for Cleaning Hands and Feet.
Claims use since July 9, 1923.

Ser. No. 185,606. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) MELODY PIANO CO. INC., New York, N. Y. Filed Sept. 10, 1923.

Melody Piano Co. Inc.




Particular description of goods.—Pianos and Phonographs.
Claims use since November, 1922.

Ser. No. 185,607. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MENLEY & JAMES, LIMITED, New York, N. Y. Filed Sept. 10, 1923.

IODEX

Particular description of goods.—Medicated Soap.
Claims use since May 19, 1922.

Ser. No. 185,630. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WILLIAM F. STOECKER, doing business as Cleo Products Co., Omaha, Nebr. Filed Sept. 10, 1923.

Cleo SPARKLING

The word "Sparkling" does not form a part of the registration sought apart from the mark shown in the drawing.
Particular description of goods.—Carbonated, Maltless Nonalcoholic Beverages and Sirups for Making Same.
Claims use since June 5, 1923.

Ser. No. 185,650. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BEESEMYER WAGGONER, INC., Los Angeles, Calif. Filed Sept. 11, 1923.

BLAZED TRAIL

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since Aug. 17, 1923.

Ser. No. 185,712. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LEWIS, HUBBARD AND COMPANY, Charleston, W. Va. Filed Sept. 12, 1923.

Alta Vista

Particular description of goods.—Coffee.
Claims use since Mar. 15, 1923.

Ser. No. 185,714. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LONSDALE CO., Providence, R. I. Filed Sept. 12, 1923.

ASHTON

Particular description of goods.—Cambrics and Nainsooks.
Claims use since June 23, 1922.

Ser. No. 185,724. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STARRY, YOUNG & WAY, Exeter, Calif. Filed Sept. 12, 1923.

Arrowhead

Particular description of goods.—Fresh Grapes.
Claims use since June 28, 1920.

Ser. No. 185,773. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILTON MANUFACTURING COMPANY, INC., New York, N. Y. Filed Sept. 13, 1923.

FROSTELA

Particular description of goods.—Cotton Piece Goods.
Claims use since Aug. 17, 1916.

Ser. No. 185,797. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MAX SCHWARZ TEXTILE CORPORATION, New York, N. Y. Filed Sept. 14, 1923.



No claim is made to the word "Voile" apart from the mark shown.
Particular description of goods.—Voile in the Piece.
Claims use since June 21, 1923.

Ser. No. 185,802. (CLASS 15. OILS AND GREASES.) WAVERLY OIL WORKS COMPANY, Pittsburgh, Pa. Filed Sept. 14, 1923.

GEAR-CHASE

Particular description of goods.—Lubricating Oils.
Claims use since about Jan. 1, 1923.

Ser. No. 185,804. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WAVERLY OIL WORKS COMPANY, Pittsburgh, Pa. Filed Sept. 14, 1923.

KLE-NOL

Particular description of goods.—Soaps.
Claims use since about Jan. 1, 1923.

Ser. No. 185,806. CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE J. B. WILLIAMS COMPANY, Glastonbury, Conn. Filed Sept. 14, 1923.

ZANZI

Particular description of goods.—Soap.
Claims use since May 19, 1923.

Ser. No. 185,847. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOSEPH SILBERSTEIN, New York, N. Y. Filed Sept. 15, 1923.

"Perfecto

Particular description of goods.—Handkerchiefs.
Claims use since Aug. 8, 1923.

Ser. No. 185,991. (CLASS 15. OILS AND GREASES.) ROXANA PETROLEUM CORPORATION, St. Louis, Mo. Filed Sept. 20, 1923.

FORDELENE

Particular description of goods.—Lubricating Oil.
Claims use since Jan. 1, 1923.

Ser. No. 185,994. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed Sept. 20, 1923.

OVENOMETER

Particular description of goods.—Thermometers.
Claims use since Aug. 10, 1923.

Ser. No. 186,101. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE BOURBON-OLA COMPANY, INC., Paris, Ky. Filed Sept. 24, 1923.

Bourbonola

Particular description of goods.—Nonalcoholic, Maltless Sirup for the Making of Beverage by the Addition Thereto of Carbonated, Charged, or Other Water and for Nontonic Beverage So Made.
Claims use since Mar. 1, 1923.

Ser. No. 186,145. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LUCKEL, KING & CAKE SOAP CO., Portland, Oreg. Filed Sept. 24, 1923.

Bar-None

Particular description of goods.—Soap Powder.
Claims use since July 1, 1923.

Ser. No. 186,158. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE REX-OIL COMPANY, INC., Pittsburgh, Pa. Filed Sept. 24, 1923.

Satintone

Particular description of goods.—Cleaner for Satin Footwear.
Claims use since Jan. 2, 1923.

Ser. No. 186,170. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) VARGO TRADING CORPORATION, New York, N. Y. Filed Sept. 24, 1923.

Favorit

Particular description of goods.—Pure Pumice Artificial Rubbing Stone.
Claims use since Aug. 1, 1923.

Ser. No. 186,210. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) "BEAR CAT" PRODUCTS CO., Detroit, Mich. Filed Sept. 26, 1923.

BEAR CAT

Particular description of goods.—Finishing or Polishing Material for Painted, Varnished, or Enameled Surfaces.
Claims use since June 26, 1923.

Ser. No. 186,212. (CLASS 15. OILS AND GREASES.) GUSTAV A. BERGFORS, Braintree, Mass. Filed Sept. 26, 1923.

Kweekol



Particular description of goods.—Lubricating Oils.
Claims use since May 21, 1923.

Ser. No. 186,220. (CLASS 5. ADHESIVES.) DEXTRO PRODUCTS INC., Buffalo, N. Y. Filed Sept. 26, 1923.

DEXTRO

Particular description of goods.—Glues or Pastes of Vegetable Origin.
Claims use since Jan. 5, 1920.

Ser. No. 186,228. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed Sept. 26, 1923.



Particular description of goods.—Zinc Oxide.
Claims use since May 5, 1922.

Ser. No. 186,232. (CLASS 5. ADHESIVES.) HOWARD G. HOUSE, doing business as Sta-Put Mfg. Company and formerly doing business as Sta Put Patch Co., Toledo, Ohio. Filed Sept. 26, 1923.

STA-PUT

Particular description of goods.—Tire-Repair Compounds, Adhesives, and Reenforcements for Uniting to Rubber, Leather, Cloth, Etc., Adhesive Cements, and Rubber Mending Cements, Compounds, and Adhesives.
Claims use since March, 1923.

Ser. No. 186,272. (CLASS 37. PAPER AND STATIONERY.) DRUGGISTS' SUPPLY CORPORATION, New York, N. Y. Filed Sept. 27, 1923.

Streamline

Particular description of goods.—Fountain Pen.
Claims use since Aug. 8, 1923.

Ser. No. 186,274. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE ELECTRICAL APPLIANCE MANUFACTURING COMPANY, Waterbury, Conn. Filed Sept. 27, 1923.

BAK-RITE

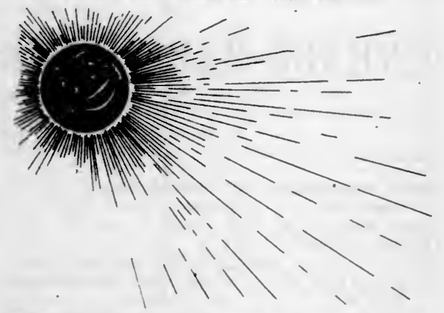
Particular description of goods.—Oven Thermometers.
Claims use since Sept. 1, 1922.

Ser. No. 186,313. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BRITISH CELLULOSE AND CHEMICAL MANUFACTURING COMPANY, LIMITED, London, England. Filed Sept. 28, 1923.

Celanese

Particular description of goods.—Fabrics Made Wholly or Principally from Cellulose Derivatives.
Claims use since Sept. 5, 1923.

Ser. No. 186,349. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CALIFORNIA CRUSHED FRUIT COMPANY, Los Angeles, Calif. Filed Sept. 29, 1923.



Particular description of goods.—Nonalcoholic, Maltless Beverages and Concentrates and Compounds for Making the Same.
Claims use since Sept. 20, 1920.

Ser. No. 186,759. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SILVER KING MINERAL WATER CO., INC., New York, N. Y. Filed Oct. 9, 1923.

SILVER KING

Particular description of goods.—Mineral Water.
Claims use since Aug. 27, 1923.

Ser. No. 186,924. (CLASS 38. PRINTS AND PUBLICATIONS.) ORDER OF SCOTTISH CLANS, Boston, Mass. Filed Oct. 12, 1923.



Particular description of goods.—Monthly Publication.
Claims use since Sept. 18, 1894.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

NOVEMBER 20, 1923.

176,105. VEGETABLE OIL FOR EDIBLE PURPOSES. PUGET SOUND OIL WORKS, INC., Seattle, Wash.
Filed November 29, 1920. Serial No. 140,398. PUBLISHED AUGUST 21, 1923.

176,106. LADIES', MISSES', AND CHILDREN'S HATS. JULIUS LAND, doing business as Vanitie Hat Co., New York, N. Y.
Filed August 31, 1921. Serial No. 152,428. PUBLISHED JULY 24, 1923.

176,107. JUMPING STICK. THE POGO COMPANY, New York, N. Y.
Filed October 29, 1921. Serial No. 154,757. PUBLISHED JUNE 20, 1922.

176,108. BANANAS. HENRY J. VINKEMULDER, doing business as The Vinkemulder Co., Grand Rapids, Mich.
Filed March 3, 1922. Serial No. 160,168. PUBLISHED AUGUST 21, 1923.

176,109. CHILDREN'S AND MISSES' DRESSES. BORGENICHT & SONS CO. INC., New York, N. Y.
Filed February 4, 1922. Serial No. 158,843. PUBLISHED AUGUST 28, 1923.

176,110. CERTAIN NAMED TOILET PREPARATIONS. GRACE D. EARL, Chicago, Ill.
Filed April 22, 1922. Serial No. 162,729. PUBLISHED AUGUST 28, 1923.

176,111. FUR GARMENTS—NAMELY, LADIES', MISSES', AND CHILDREN'S FUR COATS, SCARFS, AND MUFFS. PHILIP RICHMAN, New York, N. Y.
Filed April 15, 1922. Serial No. 162,349. PUBLISHED AUGUST 28, 1923.

176,112. WOMEN'S SUITS. L. BAMBERGER & CO., Newark, N. J.
Filed March 10, 1922. Serial No. 160,463. PUBLISHED SEPTEMBER 11, 1923.

176,113. MALT SYRUPS USED FOR FOOD PURPOSES. RED TOP MALT EXTRACT CO., Cincinnati, Ohio.
Filed June 2, 1922. Serial No. 164,831. PUBLISHED AUGUST 28, 1923.

176,114. CERTAIN NAMED CHEMICAL PREPARATIONS. SU-DEX WOOD CURING COMPANY, INC., Coscob, Conn., and Brooklyn, N. Y.
Filed May 27, 1922. Serial No. 164,608. PUBLISHED AUGUST 14, 1923.

176,115. FRESH LEMONS. SANTA PAULA CITRUS FRUIT ASSOCIATION, Santa Paula, Calif.
Filed May 11, 1922. Serial No. 163,702. PUBLISHED SEPTEMBER 4, 1923.

176,116. KNITTED GARMENTS—NAMELY, SWEATERS. QUAKER CITY SWEATER MILLS, Philadelphia, Pa.
Filed May 10, 1922. Serial No. 163,649. PUBLISHED AUGUST 28, 1923.

176,117. KNITTED GARMENTS—NAMELY, SWEATERS. QUAKER CITY SWEATER MILLS, Philadelphia, Pa.
Filed May 10, 1922. Serial No. 163,647. PUBLISHED AUGUST 28, 1923.

176,118. BOYS' BLOUSES AND SHIRTS. BURSTEIN-FRIEDLAND & CO., Newark, N. J.
Filed July 17, 1922. Serial No. 166,976. PUBLISHED SEPTEMBER 11, 1923.

176,119. RUBBER SOLES AND HEELS. PETER BARBIERI, Perth Amboy, N. J.
Filed June 26, 1922. Serial No. 166,032. PUBLISHED NOVEMBER 14, 1922.

176,120. SUGAR. CALIFORNIA AND HAWAIIAN SUGAR REFINING CORPORATION, San Francisco, Calif.
Filed June 12, 1922. Serial No. 165,352. PUBLISHED SEPTEMBER 4, 1923.

176,121. ROMPERS, WASH SUITS, DRESSES, SUITS, AND BLOOMERS. JACOB SCHWARTZ, doing business as Pacific Children's Wear Mfg. Co., Los Angeles, Calif.
Filed July 20, 1922. Serial No. 167,151. PUBLISHED AUGUST 7, 1923.

176,122. FRUITS IN THEIR NATURAL STATE AND FRUIT PRESERVES, CITROUS FRUITS, JELLIES, MARMALADES, JAMS, SIRUPS FOR TABLE USE, AND PRESERVED, SPICED, CRYSTALLIZED, AND CANDIED FRUITS. FERDINAND BERNARD NORDMAN, Jr., Number Nine Plantation, Volusia County, Fla.
Filed April 29, 1921. Serial No. 146,979. PUBLISHED AUGUST 28, 1923.

176,123. BOOTS AND SHOES, SHOE HEELS, SHOE SHANKS, AND PARTS OF BOOTS AND SHOES. HERBERT H. ROOSA, Rochester, N. Y.
Filed July 31, 1922. Serial No. 167,658. PUBLISHED AUGUST 28, 1923.

176,124. BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, FELT, SILK, CLOTH, OR OTHER FABRIC CONSTRUCTION. THOMAS G. PLANT COMPANY, Boston, Mass.
Filed July 26, 1922. Serial No. 167,422. PUBLISHED JULY 31, 1923.

176,125. CIGARS AND TOBACCOS FOR PERSONAL CONSUMPTION. WM. BOUCHER & SONS, Baltimore, Md.
Filed January 20, 1923. Serial No. 174,816. PUBLISHED SEPTEMBER 11, 1923.

176,126. INSTANTANEOUS CHOCOLATE, MARSHMALLOW WHIP, FLASH CHOCOLATE, JIFFY MILK COCOA, BUTTER-SCOTCH DRESSING, HOT-CHOCOLATE FUDGE SAUCE, PURE POWDERED COCOA, PREMIUM CHOCOLATE, COCOA, BAKING CHOCOLATE, AND CHOCOLATE CAKE ICING. STEPHEN F. WHITMAN & SON, Philadelphia, Pa.
Filed January 10, 1923. Serial No. 174,419. PUBLISHED AUGUST 21, 1923.

176,127. MEN'S HATS AND MEN'S DRESS, NEGLIGEE, AND WORK SHIRTS. L. KLEIN, INC., Chicago, Ill.
Filed January 8, 1923. Serial No. 174,308. PUBLISHED SEPTEMBER 11, 1923.

176,128. BOYS' SUITS AND GIRLS' DRESSES. BENJAMIN RUBINSKY, doing business as Youngsters Novelty Co., New York, N. Y.
Filed January 6, 1923. Serial No. 174,262. PUBLISHED SEPTEMBER 11, 1923.

176,129. NECKTIES. MEYER, BACHARACH & FRIEDHEIM, New York, N. Y.
Filed January 4, 1923. Serial No. 174,184. PUBLISHED SEPTEMBER 11, 1923.

176,130. PRODUCT MADE OF BEANS. SANG YUEN & CO., San Francisco, Calif.
Filed January 3, 1923. Serial No. 174,162. PUBLISHED SEPTEMBER 4, 1923.

176,131. LEATHER GLOVES, GAUNTLETS, AND MITTENS. THE JOSEPH N. EISENDRATH COMPANY, Chicago, Ill.
Filed December 18, 1922. Serial No. 173,474. PUBLISHED JULY 24, 1923.

176,132. LEATHER GLOVES, GAUNTLETS, AND MITTENS. THE JOSEPH N. EISENDRATH COMPANY, Chicago, Ill.
Filed December 18, 1922. Serial No. 173,469. PUBLISHED JULY 24, 1923.

176,133. DOLLS. IDEAL NOVELTY & TOY CO., Brooklyn, N. Y.
Filed July 21, 1923. Serial No. 183,524. PUBLISHED SEPTEMBER 11, 1923.

176,134. CIGARETTES. TOBACCO PRODUCTS CORPORATION, New York, N. Y.
Filed July 19, 1923. Serial No. 183,459. PUBLISHED SEPTEMBER 11, 1923.

176,135. SALMON EGGS FOR BAIT. MRS. RICHARD CARRUTHERS, doing business as Astoria By-Products Co., Astoria, Oreg.
Filed July 18, 1923. Serial No. 183,362. PUBLISHED SEPTEMBER 11, 1923.

176,136. NECKTIES, CRAVATS, AND SCARFS. FRANC-STROHMENGER & COWAN, INC., New York, N. Y.
Filed July 12, 1923. Serial No. 183,105. PUBLISHED SEPTEMBER 11, 1923.

176,137. DRESS SHIRTS, NEGLIGEE SHIRTS, WORK SHIRTS, BOYS' BLOUSES, AND PYJAMAS. PHILLIPS-JONES CORPORATION, New York, N. Y.
Filed July 12, 1923. Serial No. 183,122. PUBLISHED SEPTEMBER 11, 1923.

176,138. TOY AUTOMOBILES. ABRAHAM & STRAUS, INC., New York, N. Y.
Filed July 10, 1923. Serial No. 183,016. PUBLISHED SEPTEMBER 11, 1923.

176,139. CIGARS. S. S. PIERCE CO., Boston, Mass.
Filed July 10, 1923. Serial No. 183,043. PUBLISHED SEPTEMBER 11, 1923.

176,140. GARTERS. WILLIAM H. JOHNSON, Arlington, N. J.
Filed January 20, 1923. Serial No. 174,841. PUBLISHED JULY 24, 1923.

176,141. CORSETS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed February 3, 1923. Serial No. 175,525. PUBLISHED JULY 31, 1923.

176,142. CORSETS, CORSET WAISTS, AND BRASSIÈRES. THE FERRIS BROS. COMPANY, New York, N. Y.
Filed February 9, 1923. Serial No. 175,779. PUBLISHED JULY 31, 1923.

176,143. HOUSEHOLD APRONS AND GIRDLE SUPPORTERS. A. STEIN & COMPANY, Chicago, Ill.
Filed July 9, 1923. Serial No. 183,003. PUBLISHED SEPTEMBER 11, 1923.

176,144. CIGARS. CONSOLIDATED CIGAR CORPORATION, New York, N. Y.
Filed July 27, 1923. Serial No. 183,734. PUBLISHED SEPTEMBER 11, 1923.

176,145. COFFEE. CLAUDE R. YATES, doing business as Alexandria Coffee Company, Alexandria, Va.
Filed December 18, 1922. Serial No. 173,458. PUBLISHED SEPTEMBER 4, 1923.

176,146. DRESS SHIRTS OF PERCALE, MADRAS, AND FLANNEL FOR MEN AND BOYS. C. R. MILLER MFG. CO., Fort Worth, Tex.
Filed November 16, 1922. Serial No. 172,115. PUBLISHED AUGUST 28, 1923.

176,147. [WITHDRAWN.]

176,148. RUBBER HEELS. UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y.
Filed November 11, 1922. Serial No. 171,880. PUBLISHED JULY 31, 1923.

176,149. GARTERS, BELTS, NECKTIES; MEN'S, LADIES', AND CHILDREN'S HATS; BOUDOIR CAPS, AND BATHING SUITS. WESTERN FANCY GOODS COMPANY, San Francisco, Calif.
Filed November 3, 1922. Serial No. 171,561. PUBLISHED AUGUST 28, 1923.

176,150. HOSIERY. THE STOCKING SHOPS OF AMERICA, INC., Reading, Pa.
Filed November 6, 1922. Serial No. 171,669. PUBLISHED AUGUST 28, 1923.

176,151. CANNED FRUITS AND VEGETABLES. FRED B. NEUHOFF, doing business as Fred B. Neuhoff Company, Los Angeles, Calif.
Filed November 11, 1922. Serial No. 171,856. PUBLISHED SEPTEMBER 4, 1923.

176,152. RUBBER HEELS. WEDGE HEEL & RUBBER CO. INC., Fort Wayne, Ind.
Filed October 18, 1922. Serial No. 170,916. PUBLISHED JULY 31, 1923.

176,153. JELLIES. VICTOR P. KENNARD, Greenland, N. H.
Filed September 27, 1922. Serial No. 169,976. PUBLISHED AUGUST 28, 1923.

176,154. MEDICINAL PREPARATION. THE FLUENZOL PROPRIETARY, LTD., Wellington, New Zealand, and New York, N. Y.
Filed September 25, 1922. Serial No. 169,897. PUBLISHED AUGUST 28, 1923.

176,155. HOSIERY. UNITED HOSIERY MILLS CORPORATION, Chattanooga, Tenn.
Filed September 13, 1922. Serial No. 169,428. PUBLISHED JUNE 5, 1923.

176,156. PREPARATION FOR THE TREATMENT OF THE SCALP. JULES FEROND CO., INC., New York, N. Y.
Filed September 18, 1922. Serial No. 169,581. PUBLISHED AUGUST 14, 1923.

176,157. TONICS FOR ANIMALS. MOORMAN MANUFACTURING COMPANY, Quincy, Ill.
Filed September 11, 1922. Serial No. 169,316. PUBLISHED AUGUST 28, 1923.

176,158. CANNED FRUITS AND CANNED VEGETABLES. NEW YORK CANNERS, INC., Rochester, N. Y.
Filed August 26, 1922. Serial No. 168,722. PUBLISHED AUGUST 21, 1923.

176,159. OILY PREPARATION FOR PRODUCING PERMANENT WAVES IN THE HUMAN HAIR. GEM-AIR PERMANENT WAVE CO. INC., New York, N. Y.
Filed August 23, 1922. Serial No. 168,603. PUBLISHED AUGUST 14, 1923.

176,160. SHOES MADE WHOLLY OR IN PART OF LEATHER. THE HARPER & KIRSCHTEN SHOE CO., Chicago, Ill.
Filed August 21, 1922. Serial No. 168,527. PUBLISHED AUGUST 7, 1923.

176,161. TOOTHBRUSHES. PARK & TILFORD, New York, N. Y.
Filed August 19, 1922. Serial No. 168,487. PUBLISHED DECEMBER 5, 1922.

176,162. CANNED FRUITS. KINGS COUNTY PACKING CO., Armona, Calif.
Filed August 18, 1922. Serial No. 168,422. PUBLISHED SEPTEMBER 4, 1923.

176,163. CANDY AND CHOCOLATES. D'ORLANDO & CO. LTD., Boston, Mass.
Filed August 17, 1922. Serial No. 168,357. PUBLISHED SEPTEMBER 4, 1923.

176,164. MUSCLE OIL, ACNE LOTION, BLEACHING LOTION, LEMON CREAM, CLEANSING CREAM, AND SKIN TONIC. DE GEILE LABORATORIES, INC., Minneapolis, Minn.
Filed August 5, 1922. Serial No. 167,841. PUBLISHED AUGUST 14, 1923.

176,165. SOLUTION OF SUPRARENAL EXTRACT. NOVOCOL CHEMICAL MFG. CO., INC., Brooklyn, N. Y.
Filed March 12, 1923. Serial No. 177,319. PUBLISHED AUGUST 7, 1923.

176,166. CERTAIN NAMED TOILET PREPARATIONS. HOUBIGANT, INC., New York, N. Y.
Filed February 14, 1923. Serial No. 176,025. PUBLISHED AUGUST 14, 1923.

176,167. PREPARATION FOR THE TREATMENT OF ITCHING AND DISEASED SCALPS, DANDRUFF, AND ECZEMA TO PREVENT FALLING HAIR. H. R. LOVELL & CO., Greenville, Pa.
Filed March 12, 1923. Serial No. 177,308. PUBLISHED AUGUST 14, 1923.

176,168. DEPILATORY. LEON CLAVERIE, Paris, France.
Filed March 12, 1923. Serial No. 177,275. PUBLISHED AUGUST 28, 1923.

176,169. MEDICATED PLASTERS. AUTHORIZED WASSERMANN MEDICAL CORPORATION, New York, N. Y.
Filed March 10, 1923. Serial No. 177,211. PUBLISHED AUGUST 28, 1923.

176,170. SKIN LOTIONS AND MEDICINAL PREPARATIONS FOR INFLAMED MUCOUS MEMBRANES. ARTHUR B. MANN, doing business as Tecq Products Company, Brooklyn, N. Y.
Filed March 15, 1923. Serial No. 177,499. PUBLISHED AUGUST 7, 1923.

176,171. HAIR DRESSING. ADOLF J. KLEIS, doing business as Sheik Toilet Products Company, Chicago, Ill.
Filed March 14, 1923. Serial No. 177,443. PUBLISHED SEPTEMBER 4, 1923.

176,172. PILE CURE. PURO PRODUCTS CO., Superior, Wis.
Filed March 13, 1923. Serial No. 177,407. PUBLISHED AUGUST 28, 1923.

176,173. WATER-SOLUBLE POWDER FOR APPLICATION TO WINDOWS FOR ELIMINATING SUN GLARE. ANDREW J. LODDER, doing business as Park Chemical Company, Cincinnati, Ohio.
Filed April 4, 1923. Serial No. 178,561. PUBLISHED AUGUST 14, 1923.

176,174. HAIR GROWER, A PRESSING OIL, A TEMPLE GROWER, AND A CORN SALVE. PRINCETTA WOODARD, Chattanooga, Tenn.
Filed April 2, 1923. Serial No. 178,486. PUBLISHED AUGUST 28, 1923.

176,175. COMPOUND PRODUCED BY THE INTERACTION OF ALDEHYDES AND AMINES AND USED IN CURING OF RUBBER ARTICLES. THE RUBBER SERVICE LABORATORIES CO., Akron, Ohio.
Filed March 17, 1923. Serial No. 177,624. PUBLISHED AUGUST 14, 1923.

176,176. PREPARATION FOR THE TREATMENT OF SYPHILIS AND DISEASES OF THE SKIN. E. TOSSE & CO., INC., New York, N. Y.
Filed April 4, 1923. Serial No. 178,578. PUBLISHED AUGUST 7, 1923.

176,177. PREPARATION FOR SYPHILIS AND DISEASES OF THE SKIN. E. TOSSE & CO., INC., New York, N. Y.
Filed April 4, 1923. Serial No. 178,577. PUBLISHED AUGUST 7, 1923.

176,178. MEDICINE FOR DISEASES PECULIAR TO FEMALES. A. O. SCHMIDT, doing business as A. O. Schmidt Co., San Francisco, Calif.
Filed April 4, 1923. Serial No. 178,573. PUBLISHED AUGUST 7, 1923.

176,179. HORSE AND MULE FEED. JOSEY-MILLER COMPANY, Beaumont, Tex.
Filed February 27, 1923. Serial No. 176,680. PUBLISHED AUGUST 28, 1923.

176,180. EGGS. GUDE BROTHERS, KIEFFER COMPANY, New York, N. Y.
Filed January 11, 1923. Serial No. 174,444. PUBLISHED JULY 10, 1923.

176,181. EGGS. GUDE BROTHERS, KIEFFER COMPANY, New York, N. Y.
Filed January 11, 1923. Serial No. 174,443. PUBLISHED JULY 10, 1923.

176,182. BUTTER AND EGGS. GUDE BROTHERS, KIEFFER COMPANY, New York, N. Y.
Filed January 11, 1923. Serial No. 174,442. PUBLISHED JULY 10, 1923.

176,183. EGGS. GUDE BROTHERS, KIEFFER COMPANY, New York, N. Y.
Filed January 11, 1923. Serial No. 174,440. PUBLISHED JULY 10, 1923.

176,184. COLORS FOR DYEING PURPOSES. WILHELM BRAUNS GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Quedlinburg, Germany.
Filed January 3, 1923. Serial No. 174,160. PUBLISHED AUGUST 14, 1923.

176,185. PREPARATION FOR CANKER AND SORE THROAT. CLEON E. ANDERSON, doing business as D. W. Anderson Drug Co., Moroni and Ephraim, Utah.
Filed January 30, 1923. Serial No. 175,292. PUBLISHED JULY 31, 1923.

176,186. PETROLEUM EMULSION, BEING A PHARMACEUTICAL PREPARATION. FRANK WALKER BELL, doing business as The Bell Emulsion Company, Staunton, Va.
Filed January 31, 1923. Serial No. 175,334. PUBLISHED AUGUST 14, 1923.

176,187. LIVE CHICKS. HENRY LITTLE & SONS, doing business as The Eagle Nest Hatchery, Upper Sandusky, Ohio.
Filed July 19, 1922. Serial No. 167,086. PUBLISHED SEPTEMBER 11, 1923.

176,188. WATERPROOFING COMPOUND FOR USE ON SHINGLE ROOFS AND WOOD SHINGLES. JOHN W. JACKSON, Palmetto, Fla.
Filed December 16, 1922. Serial No. 173,424. PUBLISHED MAY 15, 1923.

176,189. PREPARATION FOR PYORRHEA, ABSCESSES, SORES, CANCER, AND ULCERS. CANDACE M. PRESS, doing business as C. M. Press & Co., Conneaut, Ohio.
Filed January 15, 1923. Serial No. 174,637. PUBLISHED SEPTEMBER 4, 1923.

176,190. BATH SALTS. CITY OF PARIS DRY GOODS COMPANY, San Francisco, Calif.
Filed February 12, 1923. Serial No. 175,917. PUBLISHED JULY 31, 1923.

176,191. WHEAT FLOUR. GOERZ FLOUR MILLS CO., Newton, Kans.
Filed September 10, 1921. Serial No. 152,796. PUBLISHED JULY 17, 1923.

176,192. MEMBRANE ANTISEPTIC. W. WM. WINBERG, trading as The Winberg Druggists Supply Co., Wilmette, Ill.
Filed March 28, 1921. Serial No. 145,381. PUBLISHED AUGUST 1, 1922.

176,193. SOAP. THE ANDREW JERGENS COMPANY, Cincinnati, Ohio.
Filed May 24, 1921. Serial No. 148,150. PUBLISHED OCTOBER 3, 1922.

176,194. GERMICIDAL REMEDY USED IN CASES OF COLDS; SORE THROAT, CUTS, BURNS, BRUISES, BOILS, AND INSECT BITES. THE UNRUH H. P. Co., Chanute, Kans.
Filed November 25, 1921. Serial No. 155,940. PUBLISHED JULY 10, 1923.

176,195. A CERTAIN NAMED MEDICINAL TABLET. CALIFORNIA ALFALFA PRODUCTS COMPANY, Pasadena, Calif.
Filed January 21, 1922. Serial No. 158,221. PUBLISHED APRIL 3, 1923.

176,196. CHEWING GUM. DUDLEY GUM COMPANY, Nashville, Tenn.
Filed March 22, 1922. Serial No. 161,040. PUBLISHED SEPTEMBER 11, 1923.

176,197. MEDICINAL SALT FOR CLEANING THE HAIR AND THE SCALP, REMOVING DANDRUFF, AND TREATING BURNS. WALLIS D. MCPHERSON, doing business as Paoha Island Works, Mono Lake, Calif.
Filed June 19, 1922. Serial No. 165,703. PUBLISHED OCTOBER 31, 1922.

176,198. PREPARED OAT-FLOUR OR PREPARED OATMEAL WITH AND WITHOUT THE ADDITION OF OTHER FOOD SUBSTANCES, SUCH AS SUGAR OF MILK OR DRIED MILK. FLEMING & COMPANY LTD., Gore, Southland, New Zealand.
Filed October 28, 1919. Serial No. 124,262. PUBLISHED JUNE 21, 1921.

176,199. FOOD TONIC AND GENERAL STIMULANT TO CELL METABOLISM, PUT UP IN TABLET AND GRANULAR FORM. THE DRUG PRODUCTS CO. INC., Long Island City, N. Y.
Filed June 27, 1922. Serial No. 166,134. PUBLISHED JULY 10, 1923.

176,200. LEATHER SHOES FOR MEN, WOMEN, AND CHILDREN. INTERNATIONAL SHOE COMPANY, St. Louis, Mo.
Filed April 21, 1923. Serial No. 179,471. PUBLISHED AUGUST 14, 1923.

176,201. BED AND TABLE LINENS AND TOWELS. MOSSE INCORPORATED, New York, N. Y.
Filed May 1, 1923. Serial No. 180,022. PUBLISHED AUGUST 21, 1923.

176,202. KNITTED AND WOVEN CAPS. SIEGFRIED SCHANZER, New York, N. Y.
Filed May 1, 1923. Serial No. 180,031. PUBLISHED AUGUST 14, 1923.

176,203. SLEEPING GARMENTS, LADIES' TEXTILE-FABRIC UNDERWEAR, AND SHIRT WAISTS AND BLOOMERS. CLARENCE S. STEINER, Asbury Park, N. J.
Filed May 7, 1923. Serial No. 180,309. PUBLISHED SEPTEMBER 4, 1923.

176,204. BRASSIÈRES AND GARTER BRASSIÈRES. MODEL BRASSIÈRE CO. INC., New York, N. Y.
Filed April 17, 1923. Serial No. 179,280. PUBLISHED AUGUST 14, 1923.

176,205. RUBBER BOOTS AND SHOES, RUBBER OVERSHOES, AND RUBBER-SOLED CANVAS SHOES. HOOD RUBBER COMPANY, Watertown, Mass.
Filed April 21, 1923. Serial No. 179,470. PUBLISHED AUGUST 14, 1923.

176,206. ARM BANDS AND SUSPENDERS. A. STEIN & COMPANY, Chicago, Ill.
Filed April 13, 1923. Serial No. 179,118. PUBLISHED SEPTEMBER 4, 1923.

176,207. CHILDREN'S LEATHER SHOES. WOOD & SMITH, INC., Lewiston, Me.
Filed April 12, 1923. Serial No. 179,077. PUBLISHED AUGUST 28, 1923.

176,208. MEDICINAL PREPARATION USED AS A FAT REDUCER. NOAVO LABORATORIES, Los Angeles, Calif.
Filed April 9, 1923. Serial No. 178,863. PUBLISHED SEPTEMBER 4, 1923.

176,209. MEN'S, YOUTHS', AND BOYS' CAPS. NATIONAL CAP MANUFACTURING COMPANY, INCORPORATED, Louisville, Ky.
Filed April 9, 1923. Serial No. 178,862. PUBLISHED SEPTEMBER 4, 1923.

176,210. COMBINED BANDEAU AND GIRDLE, COMBINED BRASSIÈRE AND GIRDLE, AND COMBINED BRASSIÈRE AND CORSELETTE. DOROTHY BICKUM, New York, N. Y.
Filed April 11, 1923. Serial No. 178,953. PUBLISHED AUGUST 28, 1923.

176,211. LEATHER BOOTS AND SHOES. COMMONWEALTH SHOE AND LEATHER COMPANY, Boston, Mass.
Filed April 10, 1923. Serial No. 178,894. PUBLISHED AUGUST 28, 1923.

176,212. HATS AND CAPS. RABINER BROTHERS, Chicago, Ill.
Filed April 6, 1923. Serial No. 178,670. PUBLISHED AUGUST 28, 1923.

176,213. PLAYING CARDS. THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio.
Filed April 3, 1923. Serial No. 178,536. PUBLISHED AUGUST 28, 1923.

176,214. RUBBER HEELS FOR SHOES. HOLTITE MANUFACTURING COMPANY, Baltimore, Md.
Filed April 9, 1923. Serial No. 178,844. PUBLISHED AUGUST 28, 1923.

176,215. A SEMIPREPARED FONDANT AND BASE IN CANDY AND ICE CREAM, A TOPPING FOR ICE-CREAM SUNDAES, AN ICING AND FILLER FOR PASTRY. WHITE STOKES CO. INC., Chicago, Ill.
Filed April 7, 1923. Serial No. 178,791. PUBLISHED AUGUST 28, 1923.

176,216. PREPARATIONS OF MAGNESIA, PREPARATIONS OF COD-LIVER OIL, AND TONIC MEDICINES. THE CHARLES H. PHILLIPS CHEMICAL CO., Glenbrook, Conn., and New York, N. Y.
Filed April 2, 1923. Serial No. 178,463. PUBLISHED SEPTEMBER 11, 1923.

176,217. PREPARATIONS OF MAGNESIA, PREPARATIONS OF COD-LIVER OIL, AND TONIC MEDICINES. THE CHARLES H. PHILLIPS CHEMICAL CO., Glenbrook, Conn., and New York, N. Y.
Filed April 2, 1923. Serial No. 178,466. PUBLISHED SEPTEMBER 11, 1923.

176,218. BRASSIÈRES. W. S. D. UNDERWEAR CO. INC., New York, N. Y.
Filed April 4, 1923. Serial No. 178,586. PUBLISHED AUGUST 28, 1923.

176,219. ROASTED AND GROUND COFFEE. THE SHERMAN COFFEE COMPANY, Sherman, Tex.
Filed April 2, 1923. Serial No. 178,475. PUBLISHED AUGUST 21, 1923.

176,220. FACE POWDERS, ROUGES. PRESTON STURGES, Brooklyn, N. Y.
Filed February 24, 1923. Serial No. 176,579. PUBLISHED AUGUST 7, 1923.

176,221. CERTAIN NAMED TOILET PREPARATIONS. ALBECO COMPANY, San Francisco, Calif.
Filed February 19, 1923. Serial No. 176,309. PUBLISHED AUGUST 14, 1923.

176,222. CERTAIN NAMED MEDICINAL PREPARATIONS. THE NATIONAL PHARMACAL COMPANY, Cleveland, Ohio.
Filed March 19, 1923. Serial No. 177,686. PUBLISHED AUGUST 28, 1923.

176,223. CERTAIN NAMED MEDICINAL PREPARATIONS. A. J. PERRY AND CO., Dunlow, W. Va.
Filed March 10, 1923. Serial No. 177,242. PUBLISHED AUGUST 7, 1923.

176,224. BICHROMATE OF SODA AND BICHROMATE OF POTASH. NATURAL PRODUCTS REFINING CO., Jersey City, N. J.
Filed March 9, 1923. Serial No. 177,195. PUBLISHED AUGUST 7, 1923.

176,225. CERTAIN NAMED MEDICINAL PREPARATIONS. MENLEY & JAMES, LIMITED, New York, N. Y.
Filed March 9, 1923. Serial No. 177,188. PUBLISHED AUGUST 28, 1923.

176,226. PREPARATION FOR THE TREATMENT OF CANCER. EFFIE L. SMITH, Corvallis, Oreg.
Filed March 9, 1923. Serial No. 177,203. PUBLISHED AUGUST 7, 1923.

176,227. CASTOR OIL FOR MEDICINAL PURPOSES. BERRY, DEMOVILLE & Co., Nashville, Tenn.
Filed February 17, 1923. Serial No. 176,157. PUBLISHED AUGUST 7, 1923.

176,228. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich.
Filed January 25, 1923. Serial No. 175,060. PUBLISHED AUGUST 14, 1923.

176,229. CERTAIN NAMED PHARMACEUTICAL PREPARATIONS. HALSEY DUNWOODY, Paris, France.
Filed January 23, 1923. Serial No. 174,959. PUBLISHED AUGUST 14, 1923.

176,230. ANTIFREEZING LIQUID. RICHARD HEPPE, Brooklyn, N. Y.
Filed February 17, 1923. Serial No. 176,181. PUBLISHED SEPTEMBER 4, 1923.

176,231. TALCUM POWDERS. BUDDY BROOKS, INC., Marshall, Mich.
Filed April 17, 1922. Serial No. 162,375. PUBLISHED AUGUST 14, 1923

176,232. TOOTH PASTE, MOUTH WASH, PYORRHEA ASTRINGENT, HAIR TONIC, FACE POWDER, PERFUMES, AND HAND LOTIONS. GLENN R. GILBERT, doing business as Azol Laboratories, Chicago, Ill.
Filed July 31, 1922. Serial No. 167,612. PUBLISHED AUGUST 7, 1923.

176,233. CERTAIN NAMED TOILET PREPARATIONS. L. LEICHNER, Berlin, Germany.
Filed June 28, 1922. Serial No. 166,186. PUBLISHED AUGUST 7, 1923.

176,234. PREPARATION USED FOR THE DESTRUCTION AND ERADICATION OF LICE, INSECTS, AND OTHER VERMIN. JOHN F. GALLAGHER, Chicago, Ill.
Filed January 19, 1922. Serial No. 158,169. PUBLISHED AUGUST 7, 1923.

176,235. NICOTINE SULPHATE, FREE NICOTINE, AND TOBACCO EXTRACTS. AMERICAN NICOTINE COMPANY, Henderson, Ky.
Filed April 11, 1922. Serial No. 162,096. PUBLISHED AUGUST 14, 1923.

176,236. FRECKLE-REMOVING OR BLEACHING CREAM. SUNNY SUSAN LABORATORIES, INC., Buffalo, N. Y.
Filed May 26, 1922. Serial No. 164,567. PUBLISHED AUGUST 7, 1923.

176,237. VEGETABLE OILS FOR HEMORRHOIDS, CUTS, BRUISES, BURNS, SCALDS, AND SUNBURN. CHARLES G. HARRIS, Jr., Philadelphia, Pa.
Filed March 15, 1922. Serial No. 160,707. PUBLISHED AUGUST 14, 1923.

176,238. LIQUID MEDICINE FOR TUBERCULOSIS. JULIE MARCUS, Berkeley, Calif.
Filed May 29, 1922. Serial No. 164,656. PUBLISHED AUGUST 7, 1923.

176,239. FIRE-EXTINGUISHING COMPOUND. RIVER-LAKE CHEMICAL CO., Silver Spring, Md.
Filed March 18, 1922. Serial No. 160,905. PUBLISHED AUGUST 7, 1923.

176,240. LADIES' AND MISSES' DRESSES. DALTON E. PERPER, New York, N. Y.
Filed July 5, 1923. Serial No. 182,835. PUBLISHED SEPTEMBER 11, 1923.

176,241. MEN'S SUITS. WEBER & HEILBRONER, New York, N. Y.
Filed June 30, 1923. Serial No. 182,690. PUBLISHED SEPTEMBER 4, 1923.

176,242. CIGARS. DAVIS, SHERK & MASON CIGAR CO., Reading, Pa.
Filed June 30, 1923. Serial No. 182,654. PUBLISHED SEPTEMBER 11, 1923.

176,243. FEMALE SUPPOSITORIES FOR THE LOCAL TREATMENT OF CATARRHAL CONDITIONS OF THE VAGINA AND THE UTERINE CERVIX. ALBERT C. SCHMIDT, San Francisco, Calif.
Filed March 19, 1923. Serial No. 177,698. PUBLISHED AUGUST 14, 1923.

176,244. HAIR GROWER—NAMELY, A TONIC FOR PROMOTING THE GROWTH OF HAIR, REMOVING DANDRUFF, AND INVIGORATING THE SCALP. ANTHONY J. CALAJOE, New York, N. Y.
Filed February 17, 1923. Serial No. 176,162. PUBLISHED AUGUST 7, 1923.

176,245. HOSIERY. RICHMOND HOSIERY MILLS, Rossville, Ga.
Filed July 5, 1923. Serial No. 182,838. PUBLISHED SEPTEMBER 11, 1923.

176,246. TOY DOGS. WAHOO NOVELTY WORKS, Wahoo, Nebr.
Filed July 5, 1923. Serial No. 182,843. PUBLISHED SEPTEMBER 11, 1923.

176,247. ARTIFICIAL MINNOWS. JOHN WIGART, doing business as The Glirr Mfg. Co., Brooklyn, N. Y.
Filed July 7, 1923. Serial No. 182,946. PUBLISHED SEPTEMBER 11, 1923.

176,248. HOSIERY. NEW YORK MERCHANDISE COMPANY, New York, N. Y.
Filed June 29, 1923. Serial No. 182,604. PUBLISHED SEPTEMBER 4, 1923.

176,249. SWEATER COATS. CADET KNITTING COMPANY, Philadelphia, Pa.
Filed May 15, 1923. Serial No. 180,652. PUBLISHED SEPTEMBER 4, 1923.

176,250. LADIES' AND MISSES' OUTER CLOTHING, COATS, SUITS, AND DRESSES. THE P. H. SAMPLINER COMPANY, Cleveland, Ohio.
Filed May 16, 1923. Serial No. 180,724. PUBLISHED SEPTEMBER 11, 1923.

176,251. CORSETS, CORSELETTES, AND BRASSIÈRES. THE FIFTH AVENUE CORSET COMPANY, INC., Allentown, Pa.
Filed March 28, 1923. Serial No. 178,171. PUBLISHED AUGUST 28, 1923.

176,252. LADIES' COATS. SUPERIOR GARMENT COMPANY, INC., New York, N. Y.
Filed May 29, 1923. Serial No. 181,356. PUBLISHED SEPTEMBER 11, 1923.

176,253. FRESH CITROUS FRUITS. LEE COUNTY PACKING CO., Fort Myers, Fla.
Filed March 29, 1923. Serial No. 178,261. PUBLISHED SEPTEMBER 4, 1923.

176,254. HOSIERY. THE DAYTON COMPANY, Minneapolis, Minn.
Filed June 22, 1923. Serial No. 182,335. PUBLISHED SEPTEMBER 4, 1923.

176,255. MEN'S DRESS, NEGLIGEE, AND WORK SHIRTS. W. T. GRANT COMPANY, Lynn, Mass., and New York, N. Y.
Filed May 11, 1923. Serial No. 180,472. PUBLISHED SEPTEMBER 11, 1923.

176,256. SHOES MADE OF LEATHER. E. P. REED & Co., Rochester, N. Y.
Filed May 12, 1923. Serial No. 180,554. PUBLISHED SEPTEMBER 4, 1923.

176,257. CARD GAME. CUMMINGS & JOHNSON, Salt Lake City, Utah.
Filed May 12, 1923. Serial No. 180,528. PUBLISHED JULY 31, 1923.

176,258. SHOES MADE OF LEATHER. E. P. REED & Co., Rochester, N. Y.
Filed May 12, 1923. Serial No. 180,553. PUBLISHED SEPTEMBER 4, 1923.

176,259. HOSIERY. THIEME BROTHERS COMPANY, Fort Wayne, Ind., assignor to Theme Hosiery Company, a Corporation of Indiana.
Filed May 14, 1923. Serial No. 180,632. PUBLISHED SEPTEMBER 11, 1923.

176,260. UNDERWEAR OF TEXTILE FABRIC FOR WOMEN. STERLING UNDERWEAR COMPANY, Chicago, Ill.
Filed May 12, 1923. Serial No. 180,561. PUBLISHED SEPTEMBER 11, 1923.

176,261. HOSIERY. J. H. LYON & Co., Montgomery, Ala.
Filed June 29, 1923. Serial No. 182,597. PUBLISHED SEPTEMBER 4, 1923.

176,262. SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS OF THESE MATERIALS. CAMMEYER, New York, N. Y.
Filed March 30, 1923. Serial No. 178,327. PUBLISHED AUGUST 28, 1923.

176,263. SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS OF THESE MATERIALS. CAMMEYER, New York, N. Y.
Filed March 30, 1923. Serial No. 178,328. PUBLISHED AUGUST 28, 1923.

176,264. HATS FOR WOMEN AND CHILDREN. SUNMAN & HEWSON, Luton, England.
Filed March 8, 1923. Serial No. 177,146. PUBLISHED JULY 24, 1923.

176,265. COFFEE AND TEA. J. H. BRAUN & Co., Chicago, Ill.
Filed March 12, 1923. Serial No. 177,267. PUBLISHED AUGUST 21, 1923.

176,266. MEN'S HATS. HUTT & WASSERMAN INC., New York, N. Y.
Filed February 21, 1923. Serial No. 176,418. PUBLISHED JUNE 12, 1923.

176,267. CANNED, DRIED, AND PRESERVED FRUITS, BERRIES, AND VEGETABLES; MINCEMEAT, OLIVES, PICKLES, CATCHUPS, AND PREPARED RELISHES. LIBBY, MCNEILL & LIBBY, Chicago, Ill.
Filed February 19, 1923. Serial No. 176,268. PUBLISHED SEPTEMBER 4, 1923.

176,268. CAPS AND HATS OF FELT, STRAW, SILK, CLOTH, AND FUR FOR MEN, WOMEN, AND CHILDREN. THE CROFUT & KNAPP CO., South Norwalk, Conn.
Filed February 19, 1923. Serial No. 176,253. PUBLISHED AUGUST 7, 1923.

176,269. MISSES' HOSIERY. ATHENS HOSIERY MILLS, Athens, Tenn.
Filed February 24, 1923. Serial No. 176,530. PUBLISHED SEPTEMBER 4, 1923.

176,270. ATHLETIC APPAREL—NAMELY, MIDDIES, KNICKERS, GYMNASIUM AND HIKING SUITS. S. M. ELOWSKY & Co., Brooklyn, N. Y.
Filed March 15, 1923. Serial No. 177,478. PUBLISHED SEPTEMBER 4, 1923.

176,271. CERTAIN NAMED TOILET PREPARATIONS. UNION PHARMACAL COMPANY, Kansas City, Mo.
Filed March 13, 1923. Serial No. 177,414. PUBLISHED AUGUST 14, 1923.

176,272. SPORT FOOTWEAR. THE SPORTMOX COMPANY, Boston, Mass.
Filed March 13, 1923. Serial No. 177,413. PUBLISHED AUGUST 7, 1923.

176,273. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. H. C. F. KOCH & Co., INC., New York, N. Y.
Filed March 13, 1923. Serial No. 177,389. PUBLISHED SEPTEMBER 11, 1923.

176,274. SHOES OF LEATHER AND COMBINATION OF RUBBER AND LEATHER AND LEATHER AND FABRIC. CRADDOCK-TERRY CO., Lynchburg, Va.
Filed March 12, 1923. Serial No. 177,278. PUBLISHED AUGUST 7, 1923.

176,275. KNITTED COATS. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo.
Filed March 27, 1923. Serial No. 178,096. PUBLISHED SEPTEMBER 11, 1923.

176,276. LADIES' HATS. H. L. DISTILLATOR & SON, New York, N. Y.
Filed March 20, 1923. Serial No. 177,727. PUBLISHED JULY 31, 1923.

176,277. SUPPLEMENTAL WATERPROOF FIBER CUSHIONING SOLES FOR BOOTS AND SHOES. H-M MANUFACTURING CO., Kent, Ohio.
Filed March 17, 1923. Serial No. 177,605. PUBLISHED AUGUST 28, 1923.

176,278. ICE CREAM. FRANKLIN ICE CREAM COMPANY, Kansas City, Mo.
Filed April 2, 1923. Serial No. 178,437. PUBLISHED AUGUST 21, 1923.

176,279. PERFUMES. DE CAMERON INC., New York, N. Y.
Filed April 11, 1923. Serial No. 178,961. PUBLISHED AUGUST 14, 1923.

176,280. SKIN LOTION. SALVADERM CO., New York, N. Y.
Filed April 10, 1923. Serial No. 178,934. PUBLISHED AUGUST 14, 1923.

176,281. MEDICINAL LIQUID FOR LUNGS AND KIDNEY AND FOR HEALING WOUNDS AND SORES. JOZEPH VAJDA, New York, N. Y.
Filed April 9, 1923. Serial No. 178,886. PUBLISHED AUGUST 14, 1923.

176,282. MEDICINE IN TABLET OR TROCHES FORM FOR USE IN THE TREATMENT OF INFLUENZA AND SIMILAR AILMENTS. EDWARD A. SECOY, doing business as Oak Grove General Sanitarium, Williamsport, Ohio.
Filed April 9, 1923. Serial No. 178,875. PUBLISHED AUGUST 14, 1923.

176,283. MEDICINE FOR TREATMENT OF TUBERCULOSIS OF THE BONE AND LIKE DISEASES. FRANK B. ODOR, Coshocton, Ohio.
Filed April 9, 1923. Serial No. 178,864. PUBLISHED AUGUST 14, 1923.

176,284. CHEMICAL PREPARATION FOR CLEANING CLOSET BOWLS. JOHN S. HUFF, doing business as The Kleans-It Manufacturing Co., New Brighton, Pa.
Filed April 9, 1923. Serial No. 178,846. PUBLISHED AUGUST 14, 1923.

176,285. DRY BLACK CHEMICAL COMPOUND USED AS A SOOT DESTROYER. CHIMNEE SWEEP MANUFACTURING COMPANY, San Francisco, Calif.
Filed April 9, 1923. Serial No. 178,825. PUBLISHED AUGUST 28, 1923.

176,286. CERTAIN NAMED TOILET PREPARATIONS. AMERICAN WITCH HAZEL SUPPLY CO., New York, N. Y.
Filed April 7, 1923. Serial No. 178,701. PUBLISHED AUGUST 14, 1923.

176,287. PRESERVED MILK, CREAM AND MILK-CHOCOLATE DRINKS. STERLING MILK COMPANY, Oklahoma, Okla.
Filed March 29, 1923. Serial No. 178,297. PUBLISHED SEPTEMBER 4, 1923.

176,288. CERTAIN NAMED CHEMICAL PRODUCTS. CHEMISCHE FABRIK GRÜNAU LANDSHOFF & MEYER AKTIENGESELLSCHAFT, Berlin and Grunau, near Berlin, Germany.
Filed May 8, 1923. Serial No. 180,327. PUBLISHED AUGUST 14, 1923.

176,289. SALVES AND PILLS USED IN THE TREATMENT OF PILES. ARAM K. CONDRAJIAN, Fresno, Calif.
Filed May 8, 1923. Serial No. 180,328. PUBLISHED AUGUST 28, 1923.

176,290. DEODORIZING FLUID. THE SELIG COMPANY, Atlanta, Ga.
Filed May 9, 1923. Serial No. 180,393. PUBLISHED AUGUST 14, 1923.

176,291. DISINFECTANT. THE SELIG COMPANY, Atlanta, Ga.
Filed May 9, 1923. Serial No. 180,394. PUBLISHED AUGUST 14, 1923.

176,292. A CERTAIN NAMED MEDICINAL PREPARATION. LEWIS SCHUMAN, doing business as Kisco Pharmacal Co., Mount Kisco, N. Y.
Filed May 4, 1923. Serial No. 180,194. PUBLISHED AUGUST 14, 1923.

176,293. SORE-THROAT REMEDY. JOSHUA HOLLAND, doing business as Holland Pharmaceutical Company, Chicago, Ill.
Filed April 20, 1923. Serial No. 179,407. PUBLISHED AUGUST 14, 1923.

176,294. PREPARATION FOR THE TREATMENT OF INFLUENZA. JAMES G. MILLS, doing business as Saltersod Company, Electra, Tex.
Filed May 8, 1923. Serial No. 180,339. PUBLISHED AUGUST 14, 1923.

176,295. CERTAIN NAMED TOILET PREPARATIONS. COTY, INC., Wilmington, Del., and New York, N. Y.
Filed May 3, 1923. Serial No. 180,099. PUBLISHED SEPTEMBER 4, 1923.

176,296. DISINFECTANT. THE SELIG COMPANY, Atlanta, Ga.
Filed May 9, 1923. Serial No. 180,395. PUBLISHED AUGUST 14, 1923.

176,297. PREPARATION USED IN THE TREATMENT OF GOITER AND AS A PROPHYLACTIC. MERCK & Co., New York, N. Y.
Filed May 2, 1923. Serial No. 180,076. PUBLISHED AUGUST 14, 1923.

176,298. TOILET PREPARATIONS—NAMELY, COMPLEXION CLAY. BARR MANUFACTURING CORPORATION, Tyrone, Pa.
Filed April 20, 1923. Serial No. 179,392. PUBLISHED JULY 31, 1923.

176,299. CERTAIN NAMED TOILET PREPARATIONS. COTY, INC., Wilmington, Del., and New York, N. Y.
Filed May 3, 1923. Serial No. 180,104. PUBLISHED AUGUST 14, 1923.

176,300. HAIR TONIC. IRVING SELKOW, doing business as Washington Barber Supply Co., New York, N. Y.
Filed April 16, 1923. Serial No. 179,227. PUBLISHED AUGUST 14, 1923.

176,301. HAIR POMADE. BAYARD CHEMICAL COMPANY, New York, N. Y.
Filed April 20, 1923. Serial No. 179,393. PUBLISHED JULY 31, 1923.

176,302. INSECTICIDES. DAVID KLEBANOFF, doing business as Pestine Chemical Co., Philadelphia, Pa.
Filed April 19, 1923. Serial No. 179,375. PUBLISHED SEPTEMBER 11, 1923.

176,303. LIQUID INSECTICIDE. THE WHITE TAR COMPANY, New York, N. Y.
Filed April 17, 1923. Serial No. 179,287. PUBLISHED JULY 31, 1923.

176,304. A CERTAIN NAMED MEDICINAL PREPARATION. ANGELO D. POPE, New York, N. Y.
Filed April 17, 1923. Serial No. 179,282. PUBLISHED AUGUST 21, 1923.

176,305. DYES AND DYE STICKS. KOHN & SILVERBERG, Chicago, Ill.
Filed April 16, 1923. Serial No. 179,208. PUBLISHED AUGUST 14, 1923.

176,306. MEDICINE. THE GASTONE CO., Rocky Mount, N. C.
Filed April 17, 1923. Serial No. 179,266. PUBLISHED AUGUST 21, 1923.

176,307. TABLETS FOR THE TREATMENT OF COLDS, LA GRIPPE, AND HEADACHE. JOSEPH T. BALTAR, New Orleans, La.
Filed April 17, 1923. Serial No. 179,258. PUBLISHED AUGUST 14, 1923.

176,308. DISINFECTANTS, INSECTICIDES, AND DEODORANTS. CHEMICAL ENTERPRISES INCORPORATED, New York, N. Y.
Filed April 14, 1923. Serial No. 179,133. PUBLISHED AUGUST 14, 1923.

176,309. COUNTERIRRITANT AND RUBEFACIENT. THE ALPEN COMPANY, St. Louis, Mo.
Filed April 14, 1923. Serial No. 179,129. PUBLISHED AUGUST 7, 1923.

176,310. LIQUIDS AND OINTMENTS FOR SCALP AND SKIN. ROMAN H. WOJCIECHOWSKI, doing business as Valona Manufacturing Co., Brooklyn, N. Y.
Filed April 13, 1923. Serial No. 179,123. PUBLISHED AUGUST 14, 1923.

176,311. PREPARATION FOR HEADACHE, NEURALGIA, LA GRIPPE, AND COLDS, TO BE TAKEN INTERNALLY. PETER HANDLEY, Garland, Tex.
Filed April 14, 1923. Serial No. 179,148. PUBLISHED SEPTEMBER 4, 1923.

176,312. MEDICINAL BELT FOR THE TREATMENT OF KIDNEYS. RANDELL & Co., New York, N. Y.
Filed April 13, 1923. Serial No. 179,112. PUBLISHED SEPTEMBER 4, 1923.

176,313. EXTRACT ANTERIOR LOBE PITUITARY GLAND. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed April 16, 1923. Serial No. 179,220. PUBLISHED JULY 31, 1923.

176,314. A CERTAIN NAMED CHEMICAL AND MEDICINAL PREPARATION. THE WESTERN CHEMICAL CO., INC., Seattle, Wash.
Filed April 13, 1923. Serial No. 179,119. PUBLISHED AUGUST 28, 1923.

176,315. MEDICINAL PETROLEUM PRODUCTS—NAMELY, SYNTHETIC PETROLATUM AND PETROLEUM JELLY. SHERWOOD PETROLEUM COMPANY, INC., Brooklyn, N. Y.
Filed April 12, 1923. Serial No. 179,063. PUBLISHED AUGUST 14, 1923.

176,316. INSECT-DESTROYING COMPOUND. E. F. LILLY, doing business as E. F. Lilly Company, Morganton, N. C.
Filed April 12, 1923. Serial No. 179,048. PUBLISHED AUGUST 14, 1923.

176,317. BLOOD-CLEANING LIQUID. JOHN OROSZ, Adena, Ohio.
Filed April 11, 1923. Serial No. 179,011. PUBLISHED AUGUST 14, 1923.

176,318. EMOLLIENT FOR USE FOR CHAPPED SKIN, SUNBURN, AND ALL SKIN IRRITATIONS. JACOB BARAB, doing business as Aniseptol Chemical Co., Wilmington, Del.
Filed April 13, 1923. Serial No. 179,085. PUBLISHED SEPTEMBER 11, 1923.

176,319. MATERIAL IN LIQUID FORM USED FOR CLEANSING AND BEAUTIFYING THE SKIN AND IMPROVING THE COMPLEXION. THE JOUVENCE COMPANY, INC., New York, N. Y.
Filed April 12, 1923. Serial No. 179,045. PUBLISHED JULY 31, 1923.

176,320. VAGINAL SUPPOSITORIES. JAMES RIKIZO YAGYU, doing business as Ohio Medicine Co., Los Angeles, Calif.
Filed April 11, 1923. Serial No. 179,022. PUBLISHED AUGUST 28, 1923.

176,321. HAIR TONIC. WILLIAM J. BURNS, Brooklyn, N. Y.
Filed May 10, 1923. Serial No. 180,416. PUBLISHED AUGUST 14, 1923.

176,322. DISINFECTANT. THE SELIG COMPANY, Atlanta, Ga.
Filed May 9, 1923. Serial No. 180,396. PUBLISHED AUGUST 14, 1923.

176,323. LAXATIVE. THE AGRILIN CHEMICAL COMPANY, Wilmington, Del., and New York, N. Y.
Filed June 14, 1923. Serial No. 181,970. PUBLISHED SEPTEMBER 11, 1923.

176,324. VEGETABLE LAXATIVE TABLETS. SOLAX DRUG COMPANY, INC., Philadelphia, Pa.
Filed May 10, 1923. Serial No. 180,455. PUBLISHED SEPTEMBER 4, 1923.

176,325. PLAIN GALVANIZED WIRE AND GALVANIZED TELEPHONE WIRE. KEYSTONE STEEL AND WIRE COMPANY, Bartonville, Peoria, Ill.
Filed August 20, 1923. Serial No. 184,731. PUBLISHED SEPTEMBER 18, 1923.

176,326. FEEDS, AND FAMILY AND BAKERS' WHEAT FLOUR, GRAHAM FLOUR, RYE FLOUR, WHITE AND YELLOW CORN MEAL, AND BRAN. NICHOLLS-LOOMIS CO., Los Angeles, Calif.
Filed November 3, 1921. Serial No. 154,990. PUBLISHED SEPTEMBER 12, 1922.

176,327. WIRE FENCE AND BARBED WIRE. KEYSTONE STEEL & WIRE COMPANY, Bartonville, Peoria, Ill.
Filed May 21, 1923. Serial No. 180,935. PUBLISHED SEPTEMBER 18, 1923.

176,328. WIRE FENCE AND BARBED WIRE. KEYSTONE STEEL & WIRE COMPANY, Bartonville, Peoria, Ill.
Filed July 25, 1923. Serial No. 183,655. PUBLISHED SEPTEMBER 18, 1923.

176,329. PLAIN GALVANIZED WIRE AND GALVANIZED TELEPHONE WIRE. KEYSTONE STEEL & WIRE COMPANY, Bartonville, Peoria, Ill.
Filed August 20, 1923. Serial No. 184,730. PUBLISHED SEPTEMBER 18, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

176,330. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TAGGART BAKING COMPANY, Indianapolis, Ind. Filed May 28, 1923. Serial No. 181,323.

ALASKAN

Particular description of goods.—Sugar Wafers.
Claims use since 1915.

176,331. (CLASS 39. CLOTHING.) HENRY M. WILLITS, INCORPORATED, Birdsboro, Pa. Filed May 31, 1923. Serial No. 181,430.



Particular description of goods.—Children's Shoes Made of Leather, Fabric, or Combinations of Leather and Fabric.
Claims use since January, 1922.

176,332. (CLASS 39. CLOTHING.) JONATHAN ROBERTS, Camden, N. J. Filed June 2, 1923. Serial No. 181,497.

JONATHAN ROBERTS

Particular description of goods.—Shoes of Leather for Men, Women, and Children.
Claims use since May 1, 1913.

176,333. (CLASS 39. CLOTHING.) JOHN M. AHEARN, Marblehead, Mass. Filed May 18, 1923. Serial No. 180,779.



Particular description of goods.—Men's, Women's, and Children's Shoes of Leather, Rubber, Fabric, or Combinations of the Same.
Claims use since Oct. 15, 1921.

176,334. (CLASS 39. CLOTHING.) LONDON SHOE COMPANY, INC., New York, N. Y., and Chicago, Ill. Filed May 26, 1923. Serial No. 181,199.

LONDON CHARACTER SHOES

Particular description of goods.—Shoes of Leather, Rubber, and Fabric, Leather and Rubber, Leather and Fabric, and Rubber and Fabric, for Men, Women, and Children.
Claims use since May 24, 1919.

176,335. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AROMA INCENSE COMPANY, Los Angeles, Calif. Filed May 9, 1923. Serial No. 180,353.

Aroma Incense

Particular description of goods.—Incense in the Form of Cubes, Powders, or Sticks.
Claims use since Sept. 1, 1922.

176,336. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MUDGE & COMPANY, Chicago, Ill. Filed May 10, 1923. Serial No. 180,447.

MUDGE

Particular description of goods.—Railway Gasoline-Motor Cars.
Claims use since Feb. 5, 1915.

176,337. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAENGER DRUG COMPANY, INC., Shreveport, La. Filed May 11, 1923. Serial No. 180,500.

WONDER WINE FOR WOMEN

Particular description of goods.—A Tonic for Women in Nonsurgical Cases of Weakness and Disorders of the Generative Organs and for Menstrual Disturbances.
Claims use since July, 1920.

176,338. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HERB JUICE MEDICINE CO., INC., Jackson, Tenn. Filed May 5, 1923. Serial No. 180,218.

MILLER'S HERB JUICE

Particular description of goods.—Herb Juice and Laxative Compound for Biliousness, Indigestion, Nervousness, Headache, Stomach, Liver, and Kidney Disorders.
Claims use since January, 1912.

176,339. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WOLF MILLING COMPANY, Ellinwood, Kans. Filed May 5, 1923. Serial No. 180,256.

WOLF'S PREMIUM

Particular description of goods.—Graham Flour, Rye Flour, Wheat Flour, Corn Meal, Corn Flour, Corn Chop, and Wheat Feeds.
Claims use since September, 1908.

176,340. (CLASS 39. CLOTHING.) THE RICKARD SHOE COMPANY, Haverhill, Mass. Filed Dec. 12, 1922. Serial No. 173,243.

SNUG HEEL FIT

Particular description of goods.—Shoes Constructed of Leather and a Combination of Fabric and Leather.
Claims use since Aug. 1, 1922.

176,341. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TIOGA MILL & ELEVATOR CO., Waverly, N. Y. Filed Feb. 3, 1923. Serial No. 175,533.

MINERAL FOOD

Particular description of goods.—Horse and Mule Feed, Cow Feed, and Hog Feed.
Claims use since June 26, 1922.

176,342. (CLASS 39. CLOTHING.) COMMONWEALTH SHOE AND LEATHER COMPANY, Boston, Mass. Filed Mar. 26, 1923. Serial No. 178,027.

Commonwealth TRADE MARK BOSTONIANS

Particular description of goods.—Leather Boots and Shoes.
Claims use since Jan. 1, 1903.

176,343. (CLASS 39. CLOTHING.) ELMER LITTLE & SON, Johnstown, N. Y. Filed Apr. 3, 1923. Serial No. 178,523.

"Ther-Mocha" Cape

Particular description of goods.—Gloves Made of Cape Leather and Interlined with a Glove Made of Mocha.
Claims use since Jan. 1, 1921.

176,344. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HERB JUICE MEDICINE CO., INC., Jackson, Tenn. Filed May 5, 1923. Serial No. 180,217.

MILLER'S HERB JUICE

Particular description of goods.—Herb Juice and Laxative Compound, for Stomach, Liver, Kidney Disorders, Constipation, Biliousness, Indigestion, and Headache.
Claims use since January, 1912.

176,345. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DANIEL D. PUGSLEY, New York, N. Y. Filed Nov. 24, 1922. Serial No. 172,491.

PUGSLEY D PRODUCTS D

Particular description of goods.—Liniment and Hair Grower.
Claims use since July 21, 1921.

176,346. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VINCENZO TURITTO, Washington, D. C. Filed Nov. 27, 1922. Serial No. 172,621.

NOCE CHINA

Particular description of goods.—Tonic of a Vegetable Character for the Stomach, Blood, and Building Up the Tissues.
Claims use since August, 1900.

176,347. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ERNEST G. WEST, doing business as Hutchings Medicine Company, Toronto, Ontario, Canada. Filed Nov. 29, 1922. Serial No. 172,677.

Campana's Italian Balm

campana's ITALIAN BALM

Particular description of goods.—Toilet Preparation for Chapped or Rough Skin, Sunburn, or for Use After Shaving.
Claims use since 1897.

176,348. (CLASS 39. CLOTHING.) TURRELL SHOE CO., Seattle, Wash. Filed Dec. 4, 1922. Serial No. 172,914.

Johnny Walker

Particular description of goods.—Leather Shoes.
Claims use since Aug. 19, 1922.

176,349. (CLASS 37. PAPER AND STATIONERY.) H. P. ANDREWS PAPER COMPANY, New York, N. Y. Filed Oct. 31, 1922. Serial No. 171,408.

STRONG TAG

Particular description of goods.—Tough Manila Paper in Bristol Weight.
Claims use since May, 1916.

176,350. (CLASS 39. CLOTHING.) AMERICAN WHOLESALE CORPORATION (BALTIMORE BARGAIN HOUSE), Baltimore and Cumberland, Md. Filed May 4, 1922. Serial No. 163,311.

STETSON
PAD GARTERS

Particular description of goods.—Men's Garters.
Claims use since Mar. 20, 1921.

176,351. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETEIT VOOR CHEMISCHE INDUSTRIE "KATWIJK," Katwijk aan Zee, Netherlands. Filed Jan. 16, 1922. Serial No. 158,015.

SOCIETEIT VOOR CHEMISCHE INDUSTRIE „KATWIJK"
SOCIETY FOR CHEMICAL INDUSTRY „KATWIJK"

Particular description of goods.—Caffeine, Theobromine, and Formaldehyde Preparations.
Claims use since July, 1916.

176,352. (CLASS 39. CLOTHING.) MICHAEL HAWIE, Bridgeport, Conn. Filed May 3, 1922. Serial No. 163,272.

Double-Grip
Never-Slip.

Particular description of goods.—Hose Supporters and Parts Thereof.
Claims use since Apr. 25, 1922.

176,353. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) GEORGE REESE, doing business as Return Oil Ring Co., San Francisco, Calif. Filed July 26, 1922. Serial No. 167,423.

Return-Oil

Particular description of goods.—Piston Rings.
Claims use since Dec. 22, 1921.

176,354. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BROWN MANUFACTURING CO., Greeneville, Tenn. Filed Mar. 6, 1922. Serial No. 160,228.

RAMON'S
RED
OIL

Particular description of goods.—A Stimulating Antiseptic Oil.
Claims use since Jan. 1, 1916.

176,355. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. S. DOUTHIT, doing business as Loup Valley Hatchery, Cushing, Nebr. Filed Sept. 20, 1922. Serial No. 169,704.

LOUP VALLEY HATCHERY

Particular description of goods.—Baby chicks, Live Poultry, and Eggs.
Claims use since Aug. 21, 1922.

176,356. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) MASSACHUSETTS TIRE SALES CO., INC., Boston, Mass. Filed July 20, 1923. Serial No. 183,487.

MASSACHUSETTS

Particular description of goods.—Solid Rubber Tires.
Claims use since Aug. 1, 1922.

176,357. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GUY O. CLARK, Vancouver, British Columbia, Canada, and Seattle, Wash. Filed Dec. 12, 1921. Serial No. 156,567.

Certainteed

Particular description of goods.—A Dairy Product Consisting of Skimmed Milk and Cream Plus Pasteurization.
Claims use since Sept. 1, 1921.

176,358. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) LACLEDE-CHRISTY CLAY PRODUCTS COMPANY, St. Louis, Mo. Filed Oct. 9, 1922. Serial No. 170,491.

LACLEDE

Particular description of goods.—Modeling Clay.
Claims use since Sept. 21, 1922.

176,359. (CLASS 39. CLOTHING.) THE P. GOLDSMITH SONS COMPANY, Cincinnati, Ohio. Filed Nov. 11, 1922. Serial No. 171,838.

FIRST - BECAUSE THEY - LAST

Particular description of goods.—Shoes—Namely, Running Shoes, Jumping Shoes, Basket-Ball Shoes, Football Shoes, Gymnasium Shoes, Baseball Shoes, Athletic Shoes, Said Shoes Made of Leather, Rubber, Fabric, and Combinations Thereof; Athletic Hosiery; Pants—Namely, Running Pants, Basket-Ball Pants, Knee Pants; Baseball Uniforms, Outing Clothes, Sweat Shirts, Sport Clothes, Athletic Shirts, Tights and Jerseys; Bathing Suits, Bathing Pants, and Bathing Caps; Baseball Caps, College Caps, Jersey Caps, Football Pants, Hockey Pants, Soccer Pants, Turner Pants, Baseball Belts, and Bathing Belts.
Claims use since 1915.

176,360. (CLASS 39. CLOTHING.) AMERICAN WHOLESALE CORPORATION (BALTIMORE BARGAIN HOUSE), Baltimore, Md. Filed Oct. 12, 1922. Serial No. 170,609.

STETSON

Particular description of goods.—Arm Bands.
Claims use since Sept. 1, 1922.

176,361. (CLASS 39. CLOTHING.) THE MABLEY & CAREW COMPANY, Cincinnati, Ohio. Filed Sept. 7, 1922. Serial No. 169,172.

Archfit

Particular description of goods.—Boots and Shoes Made of Leather, Fabric, and Combined Leather and Fabric.
Claims use since Feb. 15, 1922.

176,362. (CLASS 39. CLOTHING.) NIAGARA SHOE COMPANY, INC., Buffalo, N. Y. Filed Oct. 21, 1922. Serial No. 171,028.

Roma

Particular description of goods.—Shoes Made of Leather and Rubber.
Claims use since Jan. 1, 1920.

176,363. (CLASS 39. CLOTHING.) NIAGARA SHOE COMPANY, INC., Buffalo, N. Y. Filed Oct. 21, 1922. Serial No. 171,030.



Particular description of goods.—Shoes of Leather and Rubber and of Leather, Rubber, and Fabric.
Claims use since July 15, 1922.

176,364. (CLASS 39. CLOTHING.) ALICE JONES, New York, N. Y. Filed July 12, 1922. Serial No. 166,773.

CONFORMER

Particular description of goods.—Corsets.
Claims use since Sept. 16, 1920.

176,365. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANTOINE CHIRIS COMPANY, New York, N. Y. Filed Aug. 12, 1922. Serial No. 168,145.

AROMATIC ABSOLUTES

Particular description of goods.—Phenylacetaldehyde, Phenyl Ethyl Alcohol, Phenyl Ethyl Acetate, Iso Eugenol, Eugenol, Aldehyde C_{14}, Anisic Aldehyde, Amyl Salicylate, Benzaldehyde, Dipnenyl Oxide, Methyl Cinnamate, Citronellol, Geraniol, Benzyl Alcohol, Benzyl Acetate, Novotone, Phthalol, Cinnamyl Alcohol, Methyl Anthranylate, Vanillin, Coumarin, Heliotropin, Terpineol, Terpinyl Acetate, Linaloöl, Linalyl Acetate, Ethyl Cinnamate, Brom Styrol, Rhodinol, Iralols, Oil Vetiver, Oil Patchouly, and Organic Chemicals and Essential Oils Suitable for the Production of Perfumes.
Claims use since June 17, 1922.

176,366. (CLASS 39. CLOTHING.) R & G CORSET COMPANY INC., New York, N. Y. Filed Aug. 18, 1922. Serial No. 168,432.

R&G Elasticside

Particular description of goods.—Women's Corsets.
Claims use since June 13, 1922.

176,367. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922. Serial No. 160,474.

Blue Violet

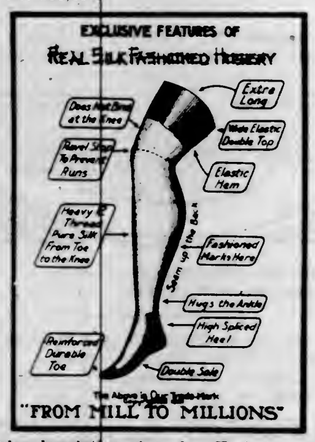
Particular description of goods.—Extract, Toilet Water, Face Powder, Talcum Powder, Sachet and Face Lotions.
Claims use since 1914.

176,368. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Feb. 27, 1922. Serial No. 159,908.

BIRTHDAY

Particular description of goods.—Cake.
Claims use since Feb. 10, 1922.

176,369. (CLASS 39. CLOTHING.) REAL SILK HOSIERY MILLS, Indianapolis, Ind. Filed Nov. 16, 1921. Serial No. 155,457.



Particular description of goods.—Hosiery.
Claims use since July 1, 1921.

176,370. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILHELM OIL COMPANY, St. Paul, Minn. Filed June 6, 1923. Serial No. 181,626.



Particular description of goods.—Insecticides.
Claims use since March, 1921.

176,371. (CLASS 39. CLOTHING.) NATHAN SCHREIBER, New York, N. Y. Filed June 9, 1923. Serial No. 181,782.

Normandie

Particular description of goods.—Hats for Women and Children.
Claims use since June, 1918.

176,372. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STAUFFER CHEMICAL COMPANY OF TEXAS, Houston, Tex. Filed June 9, 1923. Serial No. 181,785.

"TUBE" BRAND

Particular description of goods.—Rubber-Compounding Sulphur.
Claims use since March, 1922.

176,373. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STAUFFER CHEMICAL COMPANY OF TEXAS, Houston, Tex. Filed June 9, 1923. Serial No. 181,786.

"TIRE" BRAND

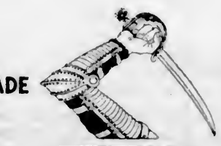
Particular description of goods.—Rubber-Compounding Sulphur.
Claims use since March, 1922.

176,374. (CLASS 39. CLOTHING.) I. LICHTENSTEIN INC., New York, N. Y. Filed June 16, 1923. Serial No. 182,106.

Lichtenstein

Particular description of goods.—Women's Hats.
Claims use since 1908.

176,375. (CLASS 39. CLOTHING.) COMMONWEALTH SHOE AND LEATHER COMPANY, Boston, Mass. Filed June 22, 1923. Serial No. 182,333.

TRADE  MARK

BOSTONIANS
Famous Shoes for Men

Particular description of goods.—Leather Boots and Shoes.
Claims use since prior to January, 1911.

176,376. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PURE MILK & DAIRY CO., Tiffin, Ohio. Filed Mar. 10, 1921. Serial No. 144,587.

Quality BRAND
"THAT GOOD KIND"

Particular description of goods.—Neufchâtel Cheese, Snappy Cheese, Pimiento Cheese, Ice Cream, and Other Dairy Products.
Claims use since 1905.

LABELS

REGISTERED NOVEMBER 20, 1923.

26,545.—*Title:* AUNT BETTY'S. For Orange Marmalade. AUNT BETTY'S PRODUCTS CO., Los Angeles, Calif. Published August 6, 1923.

26,546. — *Title:* SUNBEAM. For Cigars. AUSTIN, NICHOLS & Co. INC., Brooklyn, N. Y. Published July 19, 1922.

26,547.—*Title:* BUNTE POLLYANNA CHOCOLATES. For Chocolates. BUNTE BROTHERS, Chicago, Ill. Published June 1, 1923.

26,548.—*Title:* HANNAH WESTON BRAND. For Blueberries. CHANDLER RIVER CO-OPERATIVE CANNING ASSOCIATION, Jonesboro, Me. Published March 1, 1923.

26,549.—*Title:* CIRCUS SALLY. For Candy. THE CIRCUS SALLY COMPANY, Chicago, Ill. Published June 23, 1923.

26,550.—*Title:* LION PUNCTURE PATCH. For a Patch for Repairing Articles Made of Rubber. S. G. CLENDENNING, Coshocton, Ohio. Published August 13, 1923.

26,551.—*Title:* EXETER. For Fresh Grapes. EXETER ORANGE GROWERS ASSOCIATION, Exeter, Calif. Published June 11, 1923.

26,552.—*Title:* EXETER. For Oranges. EXETER ORANGE GROWERS ASSOCIATION, Exeter, Calif. Published June 11, 1923.

26,553.—*Title:* SHELL. For Canned Peas. FREE & KLINCK, INC., Brooklyn, N. Y. Published April 20, 1923.

26,554.—*Title:* SUNDEW. For Canned Succotash. FREE & KLINCK, INC., Brooklyn, N. Y. Published April 20, 1923.

26,555.—*Title:* BELLE ISLE. For Canned Tuna. FRENCH SARDINE CO., INC., E. San Pedro, Calif. Published April 26, 1923.

26,556.—*Title:* GOODMAN'S. For Matzoths. A. GOODMAN & SONS, INC., New York, N. Y. Published August 6, 1923.

26,557.—*Title:* ALWAYS GOOD — ANY TIME — ANY PLACE. For Ginger Snaps. THE GREEN & GREEN COMPANY, Dayton, Ohio. Published August 21, 1923.

26,558.—*Title:* UNRIVALLED EXCELLENCE. For Crackers. THE GREEN & GREEN COMPANY, Dayton, Ohio. Published September 15, 1923.

26,559.—*Title:* GREEN CLUB PLAYING CARDS. For Playing Cards. STANLEY F. HANZEL, doing business as S. F. Hanzel Card Co., Chicago, Ill. Published June 19, 1923.

26,560.—*Title:* BLUE SPADE PLAYING CARDS. For Playing Cards. STANLEY F. HANZEL, doing business as S. F. Hanzel Card Co., Chicago, Ill. Published June 19, 1923.

26,561.—*Title:* GOLDEN DIAMOND PLAYING CARDS. For Playing Cards. STANLEY F. HANZEL, doing business as S. F. Hanzel Card Co., Chicago, Ill. Published June 19, 1923.

26,562.—*Title:* MALETO. For Mayonnaise Salad Dressing. HENARD MAYONNAISE COMPANY, Nashville, Tenn. Published September 1, 1923.

26,563.—*Title:* PLZENSKE. For Malt Extract. MATHIAS HINKO, Cicero, Ill. Published October 5, 1923.

26,564.—*Title:* LA DIVINIDAD. For Cigars. CHARLES H. HUNDEMANN, New York, N. Y. Published September 19, 1923.

26,565.—*Title:* ASSORTED NUT CHOCOLATES. For Assorted Nut Chocolates. HUYLER'S, New York, N. Y. Published October 1, 1923.

26,566.—*Title:* NUT AND FRUIT CHOCOLATES. For Nut and Fruit Chocolates. HUYLER'S, New York, N. Y. Published October 1, 1923.

26,567.—*Title:* ASSORTED CHOCOLATES ALL CREAM CENTERS. For Assorted Chocolates. HUYLER'S, New York, N. Y. Published October 1, 1923.

26,568.—*Title:* GROUNDER. For Ready-Mixed Paints. THE R. F. JOHNSTON PAINT COMPANY, Cincinnati, Ohio. Published July 1, 1923.

26,569.—*Title:* ALBRAN. For Cereal Breakfast Food. KELLOGG COMPANY, Battle Creek, Mich. Published July 20, 1923.

26,570.—*Title:* SOLIDIFIED BRILLIANTINE. For a Hair Fixative. ALFRED J. KRANE, St. Paul, Minn. Published October 8, 1923.

26,571.—*Title:* MEESE. For Brooms. GUS MEESE, doing business as The Meese Broom Co., Spokane, Wash. Published September 21, 1923.

26,572.—*Title:* ICE CREAM. For Ice Cream. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis. Published September 24, 1923.

26,573.—*Title:* FRESH EGGS. For Eggs. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis. Published September 27, 1923.

26,574.—*Title:* F H M EVER EASE PREPARATION. For a Massaging Preparation. FRED H. MENGE, San Francisco, Calif. Published August 17, 1923.

26,575.—*Title:* MERRILLITE COLLEGE SPECIAL. For Candy. MERRILL CANDY COMPANY, Merrill, Wis. Published October 1, 1923.

26,576.—*Title:* MT. LASSEN. For Fresh Pears. JAMES MILLS ORCHARDS CORPORATION, Hamilton City, Calif. Published July 21, 1923.

26,577.—*Title:* WINDMILL. For Oranges. JAMES MILLS ORCHARDS CORPORATION, Hamilton City, Calif. Published July 21, 1923.

26,578.—*Title:* MILL ON THE FLOSS. For Oranges. JAMES MILLS ORCHARDS CORPORATION, Hamilton City, Calif. Published July 21, 1923.

26,579.—*Title:* EVERSTYLE. For Hosiery. MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Published May 18, 1923.

26,580.—*Title:* COLLEGE DAYS. For Chocolates. MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Published June 12, 1923.

26,581.—*Title:* YORKSHIRE FARM. For Peanut Butter. JOHN MORRELL & Co., Ottumwa, Iowa. Published April 25, 1923.

26,582.—*Title:* STAR. For Leather Dressing. PICKEN CHEMICAL COMPANY, New York, N. Y. Published October 10, 1923.

26,583.—*Title:* CHEX—DOES MORE THAN SOAP. For Boxes for Soap. THE PIONEER PRODUCTS Co., Dayton, Ohio. Published July 27, 1923.

26,584.—*Title:* PURE HONEY. For Honey. THE A. I. ROOT COMPANY, Medina, Ohio. Published August 20, 1923.

26,585.—*Title:* HAGE'S ICE CREAM. For Ice Cream. SANITARY ICE CREAM Co., San Diego, Calif. Published September 14, 1923.

26,586.—*Title:* SUNNY JIM. For Prunes. J. G. SHAW, doing business as J. G. Shaw Company, San Jose, Calif. Published July 18, 1922.

26,587.—*Title:* BEST BRAND. For Creamery Butter. A. S. SPIESS, doing business as A. S. Spiess Sales Co., New Orleans, La. Published October 1, 1922.

26,588.—*Title:* WINDSOR CHOCOLATES. For Candy. TACOMA BISCUIT & CANDY COMPANY, Tacoma, Wash. Published September 28, 1923.

26,589.—*Title:* RED WING. For Apples. TOUCHET VALLEY APPLE Co., Waitsburg, Wash. Published September 24, 1923.

26,590.—*Title:* BLUE WING. For Apples. TOUCHET VALLEY APPLE Co., Waitsburg, Wash. Published September 24, 1923.

26,591.—*Title:* HE-PA-CO. For a Headache, Cold, and Pain Remedy. TRI-ME-LABORATORIES, INC., Indianapolis, Ind. Published July 1, 1923.

26,592.—*Title:* LIBERTY PATCH. For Automobile-tube patches. UNITED STATES DISTRIBUTION Co., Saginaw, Mich. Published October 5, 1923.

26,593.—*Title:* G. W. FIVE CIRCUIT SWITCH PLUG. For Electrical Plugs. G. E. WALKER COMPANY, INC., St. Louis, Mo. Published September 1, 1923.

26,594.—*Title:* PEACOCK PALE AMBER SPARKLING GINGER ALE. For Ginger Ale. WEISBROD & HESS BREWING COMPANY, doing business as Weisbrod & Hess, Philadelphia, Pa. Published May 29, 1923.

26,595.—*Title:* BRAN CANDY. For Candy. ALBERT WIDDIS, Tawas City, Mich. Published September 4, 1923.

26,596.—*Title:* UNCLE WIGGILY ANIMAL CRACKERS. For Cracker Boxes. FRED A. WISH, INC., New York, N. Y. Published March 1, 1923.

26,597.—*Title:* UNCLE WIGGILY TOY BALLOONS. For Balloon Boxes. FRED A. WISH, INC., New York, N. Y. Published April 17, 1923.

PRINTS

REGISTERED NOVEMBER 20, 1923.

6,971.—*Title:* EMBROIDER & CROCHET WITH NUN'S BOILPROOF. For Threads, Yarns, and Cottons. T. BUETTNER & Co., INC., Chicago, Ill. Published October 5, 1923.

6,972.—*Title:* WHAT I NEED TODAY. For Ginger Ale. CANADA DRY GINGER ALE, INC., New York, N. Y. Published October 1, 1923.

6,973.—*Title:* COLLARS OUTSIDE! For Gordon, an Arrow Shirt. CLUETT, PEABODY & Co., INC., Troy, N. Y. Published June 29, 1923.

6,974.—*Title:* THAT FIRST SHIRT WASHING. For Arrow Shirts. CLUETT, PEABODY & Co., INC., Troy, N. Y. Published June 15, 1923.

6,975.—*Title:* ALONG THE FRENCH HIGHWAYS. For Arrow Shirts. CLUETT, PEABODY & Co., INC., Troy, N. Y. Published April 20, 1923.

6,976.—*Title:* THE SHIRT OFF YOUR BACK. For Arrow Shirts. CLUETT, PEABODY & Co., INC., Troy, N. Y. Published May 18, 1923.

6,977.—*Title:* THE ISSUE SHIRT. For Arrow Shirts. CLUETT, PEABODY & Co., INC., Troy, N. Y. Published May 4, 1923.

6,978.—*Title:* GALLOPING SHIRTS. For Arrow Shirts. CLUETT, PEABODY & Co., INC., Troy, N. Y. Published June 1, 1923.

6,979.—*Title:* GORDON, AN ARROW SHIRT—A SHIRT THAT IS TAILORED FOR SERVICE. For Arrow Shirts. CLUETT, PEABODY & Co., INC., Troy, N. Y. Published April 21, 1923.

6,980.—*Title:* ARROW SHIRTS—MERIT IN ARROW SHIRTS, ETC. For Arrow Shirts. CLUETT, PEABODY & Co., INC., Troy, N. Y. Published June 16, 1923.

6,981.—*Title:* TUXARA ARROW COLLARS. For Arrow Collars. CLUETT, PEABODY & Co., INC., Troy, N. Y. Published March 19, 1923.

6,982.—*Title:* TABHURST ARROW WING COLLARS. For Arrow Collars. CLUETT, PEABODY & Co., INC., Troy, N. Y. Published March 12, 1923.

6,983.—*Title:* ARROW SHIRTS—WHAT IS UNIVERSALLY ACCEPTED, ETC. For Arrow Shirts. CLUETT, PEABODY & Co., INC., Troy, N. Y. Published May 21, 1923.

6,984.—*Title:* PAR ARROW COLLARS. For Arrow Collars. CLUETT, PEABODY & Co., INC., Troy, N. Y. Published March 26, 1923.

6,985.—*Title:* ARROW SHIRTS—THE ARROW SHIRTS ARE DISTINGUISHED, ETC. For Arrow Shirts. CLUETT, PEABODY & Co., INC., Troy, N. Y. Published May 12, 1923.

6,986.—*Title:* ARROW SHIRTS FOR THE MOST FORMAL, ETC. For Arrow Shirts. CLUETT, PEABODY & Co., INC., Troy, N. Y. Published March 12, 1923.

6,987.—*Title:* L'ORIGAN DE COTY. For Perfumes. COTY, INC., Wilmington, Del., and New York, N. Y. Published September 1, 1923.

6,988.—*Title:* LES POUDRES DE COTY. For Powders. COTY, INC., Wilmington, Del., and New York, N. Y. Published October 1, 1923.

6,989.—*Title:* EAUX DE TOILETTE DE COTY. For Perfumes and Toilet Water. COTY, INC., Wilmington, Del., and New York, N. Y. Published August 1, 1923.

6,990.—*Title:* LES PARFUMS DE COTY. For Perfumes. COTY, INC., Wilmington, Del., and New York, N. Y. Published October 1, 1923.

6,991.—*Title:* CLAIM CHECK. For Goodyear Wingfoot Soles and Heels. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Published September 21, 1923.

6,992.—*Title:* SKEEZIX. For Dolls. FRANK O. KING, Chicago, Ill. Published September 30, 1923.

6,993.—*Title:* GASOLINE ALLEY BUNCH. For Dolls. FRANK O. KING, Chicago, Ill. Published September 30, 1923.

6,994.—*Title:* AS INVIGORATING AS A BREATH OF MOUNTAIN AIR. For Soap. JAMES S. KIRK & COMPANY, Chicago, Ill. Published October 5, 1923.

6,995.—*Title:* MARTIN'S 100% PURE. For Varnishes. MARTIN VARNISH COMPANY, Chicago, Ill. Published August 16, 1923.

6,996.—*Title:* A REFRESHING — DELICIOUS — SATISFYING DISH. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published October 5, 1923.

6,997.—*Title:* FROM BLOSSOM TO TASTY FRUIT. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published October 5, 1923.

6,998.—*Title:* YOUR DREAM. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published October 5, 1923.

6,999.—*Title:* THE HEIGHT OF DELIGHT. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published October 5, 1923.

7,000.—*Title:* THE CHOICE OF PARTICULAR PEOPLE. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published October 5, 1923.

7,001.—*Title:* THE EXTREME OF EXCELLENCE. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published October 5, 1923.

7,002.—*Title:* ALWAYS PLEASING. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,003.—*Title:* A SLICE OF DELICIOUSNESS. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,004.—*Title:* A DELIGHT TO ALL. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,005.—*Title:* REAL CRUSHED FRUIT FLAVOR. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,006.—*Title:* THE IDEAL DESSERT. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,007.—*Title:* TWO TASTY DISHES. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,008.—*Title:* OUR STRAWBERRY SODA. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,009.—*Title:* HAWAIIAN PINEAPPLE. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,010.—*Title:* INTRODUCING THE "CORSET-LESS" CORSET MODEL NU WEST. For Corsets and Similar Garments. THE NU BONE CORSET CO., Los Angeles, Calif. Published July 13, 1923.

7,011.—*Title:* POST'S BRAN FLAKES. For Breakfast Food (Cereal). POSTUM CEREAL COMPANY, INC., Battle Creek, Mich., and New York, N. Y. Published October 9, 1923.

7,012.—*Title:* TO BE SURE USE SPERRY DRIFTED SNOW FLOUR. For Wheat Flour. SPERRY FLOUR COMPANY, San Francisco, Calif. Published February 15, 1923.

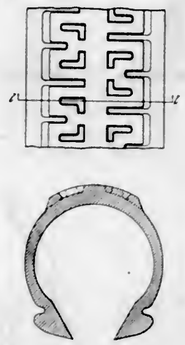
7,013.—*Title:* S. S. S. NATURE'S BLOOD PURIFIER. For a Medicinal Preparation—Namely, a Tonic for the Blood. SWIFT SPECIFIC COMPANY, Atlanta, Ga. Published August 15, 1923.

7,014.—*Title:* AJAX BRAND PERFECTION IN MEN'S DRESSING COMBS. For Combs. THE VULCANIZED RUBBER COMPANY, INC., Portland, Me., and New York, N. Y. Published September 28, 1923.

DESIGNS

NOVEMBER 20, 1923.

63,276. TIRE. JOHN E. ALLEN, Chicopee Falls, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Aug. 1, 1923. Serial No. 6,920. Term of patent 14 years.



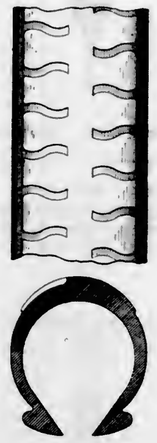
The ornamental design for a tire as shown.

63,277. COMBINATION SOCKET COVER AND HUSK FOR LIGHTING FIXTURE. GEORGE AINSWORTH, Great Neck, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Feb. 26, 1923. Serial No. 5,269. Term of patent 14 years.



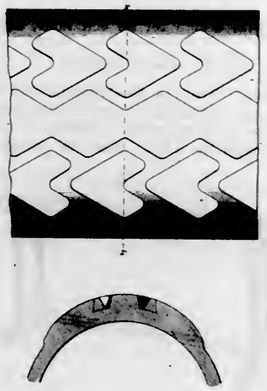
The ornamental design for a combination socket cover and husk for lighting fixture, as shown.

63,278. NONSKID TIRE TREAD. RUSSELL D. BELDEN, Buffalo, N. Y., assignor to Madison Tire & Rubber Company, Inc., Buffalo, N. Y., a Corporation of New York. Filed Dec. 2, 1921. Serial No. 519,526. Term of patent 3½ years.



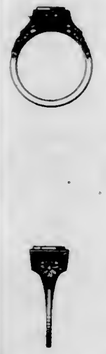
The ornamental design for a nonskid tire tread, as shown.

63,279. TIRE TREAD. FREDERICK A. BOLLINGER, Akron, Ohio. Filed Mar. 20, 1922. Serial No. 1,260. Term of patent 14 years.



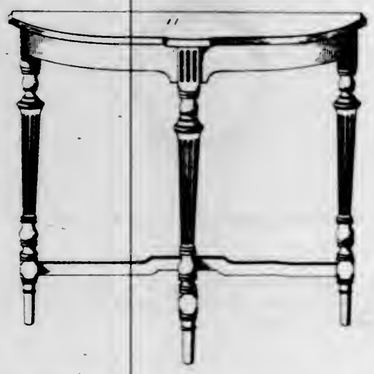
The ornamental design for a tire tread as shown.

63,280. FINGER RING. HYMAN BRESLAVSKY, Brooklyn, N. Y. Filed May 2, 1923. Serial No. 6,030. Term of patent 3½ years.



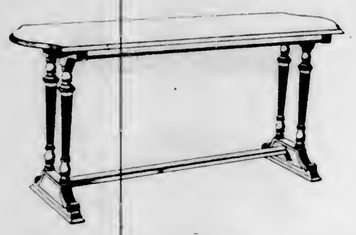
The ornamental design for a finger ring as shown.

63,281. END TABLE. THOMAS C. CAMERON, Grand Rapids, Mich., assignor to Imperial Furniture Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Jan. 17, 1923. Serial No. 4,910. Term of patent 3½ years.



The ornamental design for an end table, substantially as shown.

63,282. TABLE. THOMAS C. CAMERON, Grand Rapids, Mich., assignor to Imperial Furniture Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Jan. 17, 1923. Serial No. 4,912. Term of patent 3½ years.



The ornamental design for a table, substantially as shown.

63,283. DESK. THOMAS C. CAMERON, Grand Rapids, Mich., assignor to Imperial Furniture Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Jan. 17, 1923. Serial No. 4,913. Term of patent 3½ years.



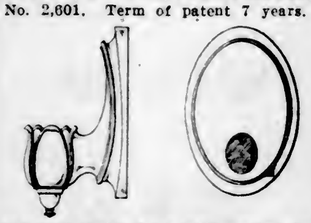
The ornamental design for a desk, substantially as shown.

63,284. GOLF CLUB. HERBERT D. CHALLIS, Sewickley, Pa. Filed May 2, 1923. Serial No. 6,041. Term of patent 3½ years.



The ornamental design for a golf club as shown.

63,285. WALL BRACKET FOR LIGHTING FIXTURES. THURE E. DAHL, New York, N. Y. Filed June 9, 1922. Serial No. 2,601. Term of patent 7 years.



The ornamental design for a wall bracket for lighting fixtures, as shown.

63,286. PIPE STAND. HENRY JOHN DAY and PAT JOHN WALKER, Moulsecomb, England. Filed Nov. 14, 1922. Serial No. 4,286. Term of patent 7 years.

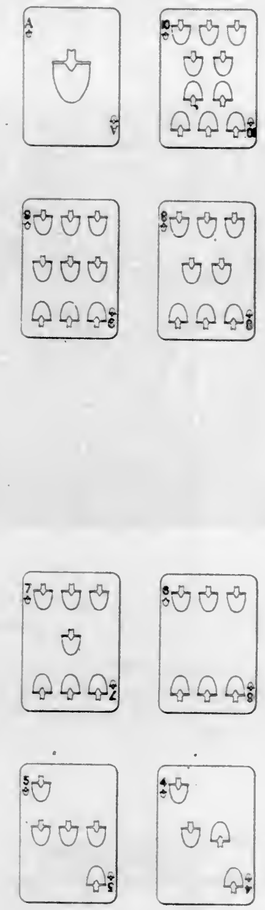


The ornamental design for a pipe stand as shown.

63,287. DECK OF PLAYING CARDS. AMBROSE A. DEAN, Kansas City, Mo. Filed June 21, 1923. Serial No. 6,542. Term of patent 14 years.



63,287



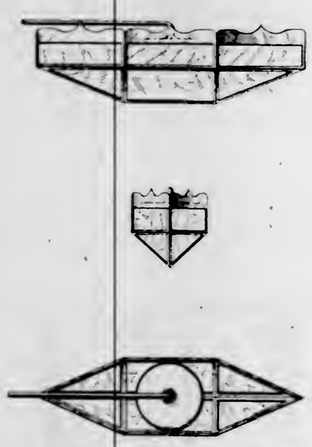
The ornamental design for a deck of playing cards, as shown.

63,288. RUG. JOSEPH ENIS, Jersey City, N. J., assignor to Bigelow-Hartford Carpet Company, a Corporation of Massachusetts. Filed June 21, 1923. Serial No. 6,544. Term of patent 7 years.



The ornamental design for a rug, substantially as shown.

63,289. ELECTRIC SIGN. CLAY S. FISHER, Fort Myers, Fla. Filed Nov. 25, 1921. Serial No. 17,794. Term of patent 3½ years.



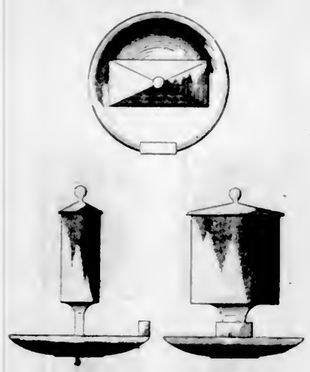
The ornamental design for an electric sign, as shown.

63,290. COFFEEPOT OR SIMILAR ARTICLE. ALFRED J. FLAUDER, Bridgeport, Conn., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 27, 1923. Serial No. 5,608. Term of patent 7 years.



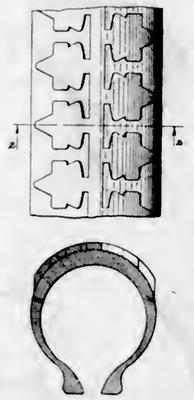
The ornamental design for coffeepot or similar article substantially as shown.

63,291. COMBINED CIGARETTE CONTAINER AND ASH TRAY. ADELBERT G. FOLSOM, Chicago, Ill. Filed Oct. 5, 1922. Serial No. 3,889. Term of patent 3½ years.



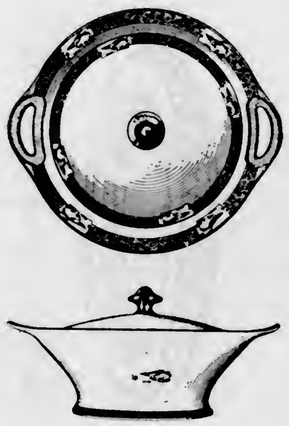
The ornamental design for a combined cigarette container and ash tray, as shown.

63,292. TIRE. ARTHUR A. FRANK, Milwaukee, Wis., assignor, by mesne assignments, to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Aug. 28, 1920. Serial No. 406,638. Term of patent 14 years.



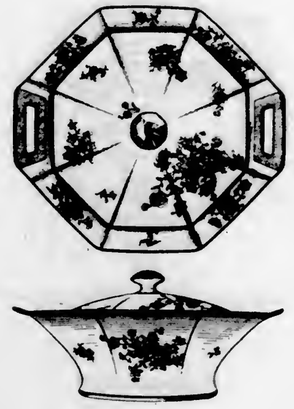
The ornamental design for a tire substantially as shown.

63,293. DISH, BOWL, OR SIMILAR ARTICLE. WILLIAM D. HAVILAND, Limoges, France, assignor to Theodore Haviland & Co., Incorporated, New York, N. Y., a Corporation of New York. Filed May 8, 1923. Serial No. 6,106. Term of patent 14 years.



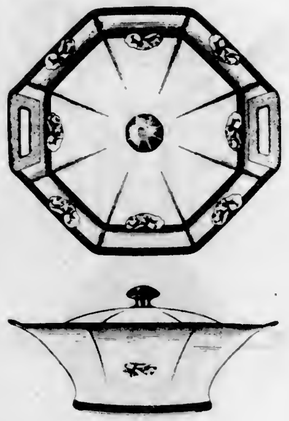
The ornamental design for a dish, bowl, or similar article, as shown.

63,294. DISH, BOWL, OR SIMILAR ARTICLE. WILLIAM D. HAVILAND, Limoges, France, assignor to Theodore Haviland & Co., Incorporated, New York, N. Y., a Corporation of New York. Filed May 8, 1923. Serial No. 6,107. Term of patent 14 years.



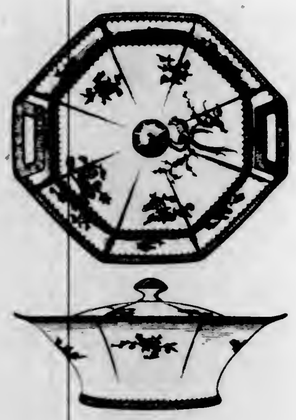
The ornamental design for a dish, bowl, or similar article, as shown.

63,295. DISH, BOWL, OR SIMILAR ARTICLE. WILLIAM D. HAVILAND, Limoges, France, assignor to Theodore Haviland & Co., Incorporated, New York, N. Y. a Corporation of New York. Filed May 8, 1923. Serial No. 6,108. Term of patent 14 years.



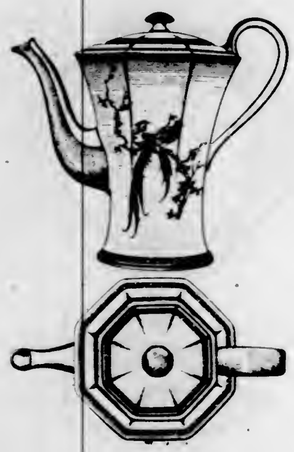
The ornamental design for a dish, bowl, or similar article, as shown.

63,296. DISH, BOWL, OR SIMILAR ARTICLE. WILLIAM D. HAVILAND, Limoges, France, assignor to Theodore Haviland & Co., Incorporated, New York, N. Y., a Corporation of New York. Filed May 8, 1923. Serial No. 6,109. Term of patent 14 years.



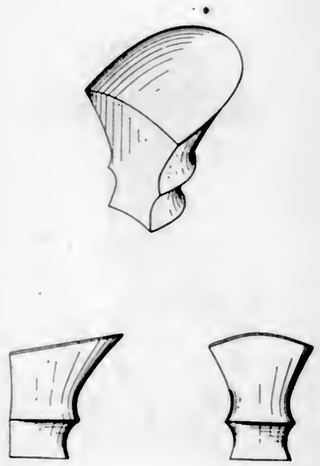
The ornamental design for a dish, bowl, or similar article, as shown.

63,297. TEAPOT OR SIMILAR ARTICLE. WILLIAM D. HAVILAND, Limoges, France, assignor to Theodore Haviland & Co., Incorporated, New York, N. Y., a Corporation of New York. Filed May 8, 1923. Serial No. 6,110. Term of patent 14 years.



The ornamental design for a teapot or similar article, as shown.

63,298. HEEL FOR BOOTS AND SHOES. DAVID HILL, Leicester, England. Filed Aug. 3, 1921. Serial No. 489,647. Term of patent 7 years.



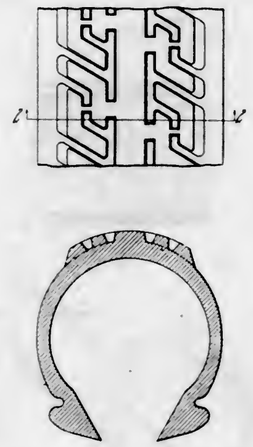
The ornamental design for a heel for boots and shoes as shown.

63,299. AUTOMOBILE TIRE. LOUIS DE HOLCZER, Salem, Ohio, assignor to Edgar A. Tinsman, Salem, Ohio. Filed Jan. 31, 1922. Serial No. 468. Term of patent 14 years.



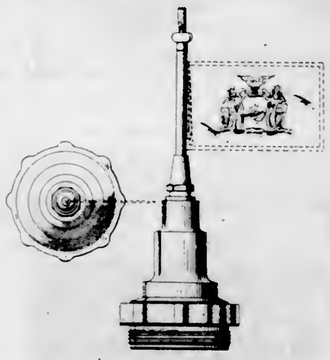
The ornamental design for an automobile tire, substantially as shown.

63,300. TIRE. GUSTAVE HUBACH, Springfield, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Aug. 1, 1923. Serial No. 6,921. Term of patent 14 years.



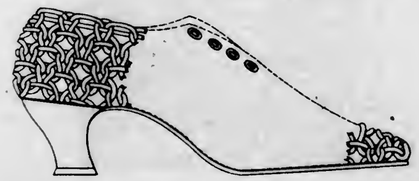
The ornamental design for a tire as shown.

63,301. RADIATOR CAP. GEORGE B. HUTCHINGS, Richmond, Va., assignor to Rado-Valv Corporation, a Corporation of Virginia. Filed Mar. 22, 1921. Serial No. 454,493. Term of patent 3½ years.



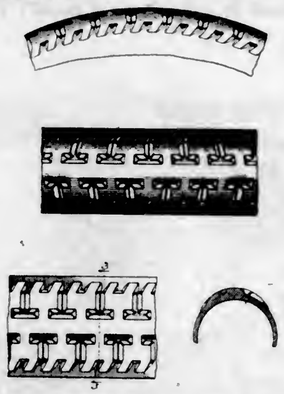
The ornamental design for a radiator cap as shown.

63,302. SHOE. MATHEW KUKOVEC, Chicago, Ill. Filed Oct. 13, 1922. Serial No. 3,959. Term of patent 14 years.



The ornamental design for a shoe as shown.

63,303. TIRE TREAD. JOHN I. MARTIN, Akron, Ohio. Filed Mar. 21, 1921. Serial No. 454,308. Term of patent 14 years.



The ornamental design for a tire thread as shown.

63,304. RUG. HENRY A. MILLER, Amsterdam, N. Y., assignor to Stephen Sanford & Sons, Inc., Amsterdam, N. Y., a Corporation of New York. Filed June 15, 1923. Serial No. 6,511. Term of patent 7 years.



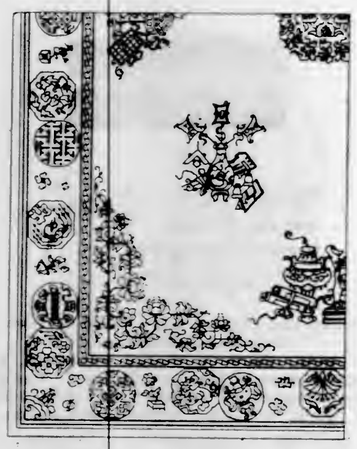
The ornamental design for a rug, substantially as shown.

63,305. BADGE. MARION R. MCDANIEL, Oak Park, Ill., assignor to Harry V. Church, Cicero, Ill., trustee for National Association of Secondary School Principals. Filed May 21, 1923. Serial No. 6,233. Term of patent 3½ years.



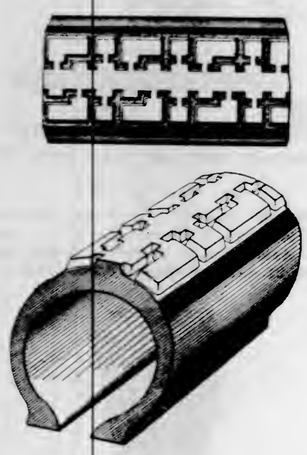
The ornamental design for a badge substantially as shown.

63,306. RUG. HENRY A. MILLER, Amsterdam, N. Y., assignor to Stephen Sanford & Sons, Inc., Amsterdam, N. Y., a Corporation of New York. Filed June 15, 1923. Serial No. 6,512. Term of patent 7 years.



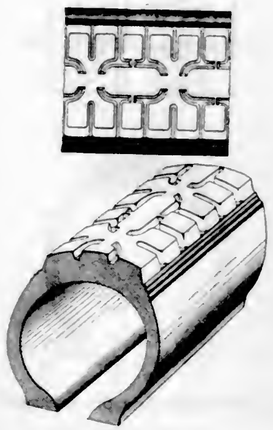
The ornamental design for a rug, substantially as shown.

63,307. TIRE TREAD. HAROLD D. MITCHELL, Brooklyn, N. Y., assignor to C. Kenyon Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 20, 1923. Serial No. 5,880. Term of patent 14 years.



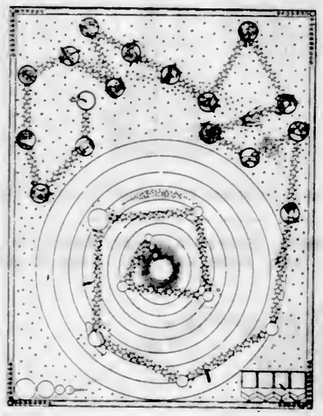
The ornamental design for a tire tread substantially as shown.

63,308. TIRE TREAD. HAROLD D. MITCHELL, Brooklyn, N. Y., assignor to C. Kenyon Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed June 18, 1923. Serial No. 6,489. Term of patent 14 years.



The ornamental design for a tire tread substantially as shown.

63,309. GAME BOARD. CHARLES S. MUIR, Chevy Chase, Md. Filed July 3, 1923. Serial No. 6,669. Term of patent 14 years.



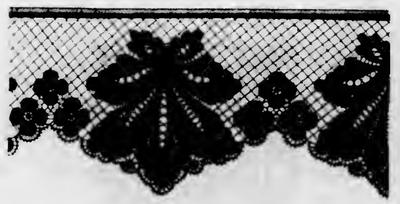
The ornamental design for a game board, as shown.

63,310. GRATE. JOHN MULLER, Flushing, N. Y., assignor to Decorative Arts League, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 18, 1922. Serial No. 4,331. Term of patent 14 years.



The ornamental design for a grate, as shown.

63,311. LACE. SAMUEL H. PAGE, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed May 4, 1923. Serial No. 6,066. Term of patent 14 years.



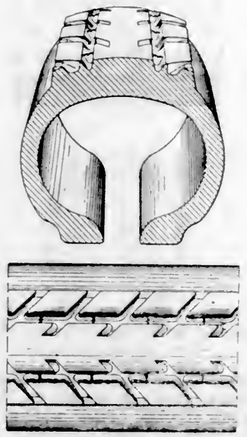
The ornamental design for lace substantially as shown.

63,312. LACE. SAMUEL H. PAGE, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed May 4, 1923. Serial No. 6,068. Term of patent 14 years.



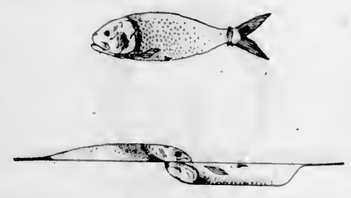
The ornamental design for lace substantially as shown.

63,313. TIRE TREAD. WALLACE HENRY PAULL, Birmingham, England, assignor to The Dunlop Rubber Company, Limited, London, England. Filed Jan. 21, 1922. Serial No. 298. Term of patent 14 years.



The ornamental design for a tire tread as shown.

63,314. BOX. EMMA C. PEASE, Nantucket, Mass. Filed Feb. 17, 1921. Serial No. 445,898. Term of patent 14 years.



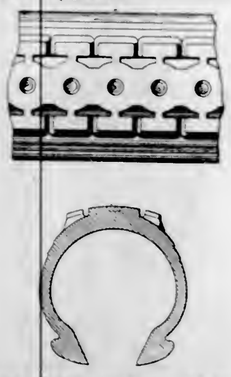
The ornamental design for a box, as shown.

63,315. CEREAL CUP. SCOTT H. PERRY, Keeseville, N. Y. Filed May 3, 1921. Serial No. 466,615. Term of patent 14 years.



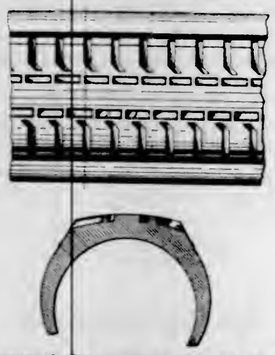
The ornamental design for a cereal cup, as shown and described.

63,316. TIRE. CARL PHARIS, Newark, Ohio, assignor to The Western Auto Supply Company, a Corporation of California. Filed Mar. 20, 1922. Serial No. 1,264. Term of patent 14 years.



The ornamental design for a tire, as shown.

63,317. TIRE. CARL PHARIS, Newark, Ohio, assignor to The Pharis Tire and Rubber Co., Newark, Ohio, a Corporation of Ohio. Filed Sept. 9, 1922. Serial No. 3,660. Term of patent 14 years.



The ornamental design for a tire, as shown.

63,318. SHEET GLASS. WILLIAM N. PILKINGTON, St. Helens, England, assignor to Pilkington Brothers Limited, St. Helens, England. Filed Jan. 6, 1923. Serial No. 4,822. Term of patent 14 years.



The ornamental design for sheet glass as shown.

63,319. SHEET GLASS. WILLIAM N. PILKINGTON, St. Helens, England, assignor to Pilkington Brothers Limited, St. Helens, England. Filed Jan. 6, 1923. Serial No. 4,823. Term of patent 14 years.

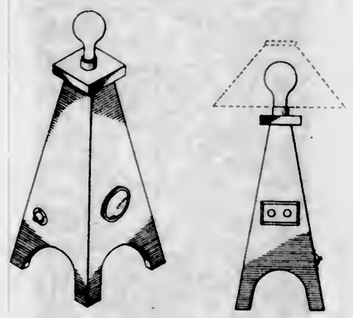


The ornamental design for sheet glass as shown.

63,320. SHEET GLASS. WILLIAM N. PILKINGTON, St. Helens, England, assignor to Pilkington Brothers Limited, St. Helens, England. Filed Jan. 6, 1923. Serial No. 4,824. Term of patent 14 years.

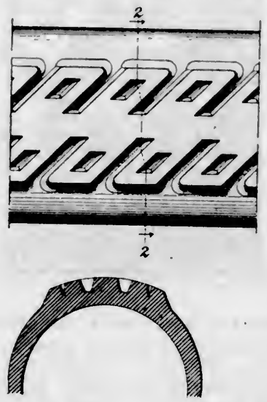
The ornamental design for sheet glass as shown.

63,321. LAMP BODY. FRANK PIRSON, Kansas City, Mo. Filed Oct. 3, 1921. Serial No. 505,192. Term of patent 3½ years.



The ornamental design for a lamp body as shown.

63,322. TIRE. GUY DE LA RIGAUDIERE, Bethlehem, Pa., assignor to The Traveler Rubber Company, Bethlehem, U. S. A., Bethlehem, Pa., a Corporation of Delaware. Filed Feb. 23, 1922. Serial No. 830. Term of patent 14 years.



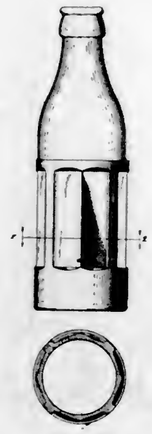
The ornamental design for a tire, substantially as shown.

63,323. BOX FOR TALCUM POWDER AND SIMILAR MATERIAL. RAMON M. RODRIGUEZ, New York, N. Y. Filed Sept. 1, 1922. Serial No. 3,618. Term of patent 14 years.



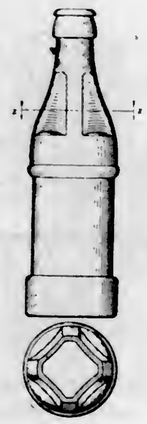
The ornamental design for a box for talcum powder and a similar material as shown and described.

63,324. BOTTLE. CHAPMAN J. ROOT, Terre Haute, Ind. Filed Nov. 25, 1921. Serial No. 517,783. Term of patent 14 years.



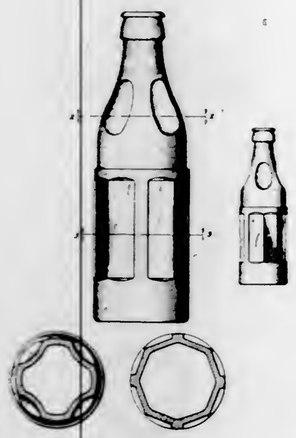
The ornamental design for a bottle, as shown.

63,325. BOTTLE. CHAPMAN J. ROOT, Terre Haute, Ind. Filed Dec. 12, 1921. Serial No. 521,941. Term of patent 14 years.



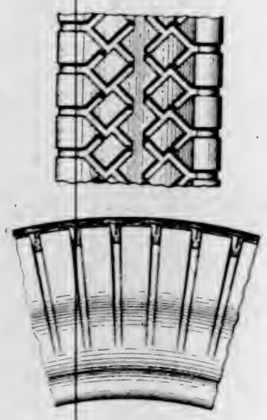
The ornamental design for a bottle, as shown.

63,326. BOTTLE. CHAPMAN J. ROOT, Terre Haute, Ind. Filed Dec. 12, 1921. Serial No. 521,942. Term of patent 14 years.



The ornamental design for a bottle, as shown.

63,327. TIRE. CHARLES H. ROPER, Watertown, Mass., assignor to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Filed June 16, 1923. Serial No. 6,521. Term of patent 14 years.



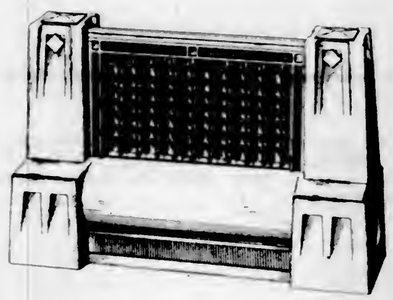
The ornamental design for a tire, as shown.

63,328. RUG. EMIL G. SAUER, Richmond Hill, N. Y., assignor to Bigelow-Hartford Carpet Company, a Corporation of Massachusetts. Filed June 23, 1923. Serial No. 6,562. Term of patent 7 years.



The ornamental design for a rug, substantially as shown.

62,329. GAS HEATER. GUSTAVE F. SCHMIDT, Chicago, Ill. Filed Dec. 23, 1921. Serial No. 524,502. Term of patent 7 years.



The ornamental design for a gas heater as shown.

63,330. ROCKER. RUDOLPH SCHWARZ, Pittsburgh, Pa., assignor, by mesne assignments, to William Fuld, Baltimore, Md. Filed Apr. 24, 1923. Serial No. 5,927. Term of patent 7 years.



The ornamental design for a rocker as shown.

63,331. SUGAR BOWL. CHARLES L. SEBRING, Sebring, Ohio, assignor to The Sebring Pottery Company, Sebring, Ohio, a Corporation of Ohio. Filed May 31, 1923. Serial No. 6,361. Term of patent 7 years.



The ornamental design for a sugar bowl, substantially as shown.

63,332. CREAM PITCHER. CHARLES L. SEBRING, Sebring, Ohio, assignor to The Sebring Pottery Company, Sebring, Ohio, a Corporation of Ohio. Filed May 31, 1923. Serial No. 6,362. Term of patent 7 years.



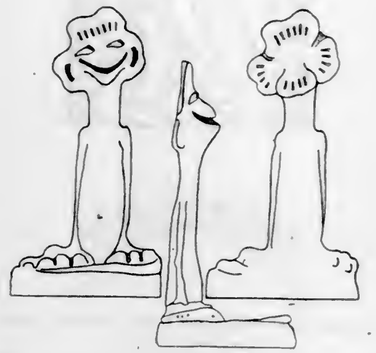
The ornamental design for a cream pitcher, substantially as shown.

63,333. CUP. CHARLES L. SEBRING, Sebring, Ohio, assignor to The Sebring Pottery Company, Sebring, Ohio, a Corporation of Ohio. Filed May 31, 1923. Serial No. 6,363. Term of patent 7 years.



The ornamental design for a cup, substantially as shown.

63,334. INCENSE BURNER. JOSEPHINE SHIVELY, Sausalito, Calif. Filed Dec. 1, 1922. Serial No. 4,453. Term of patent 7 years.



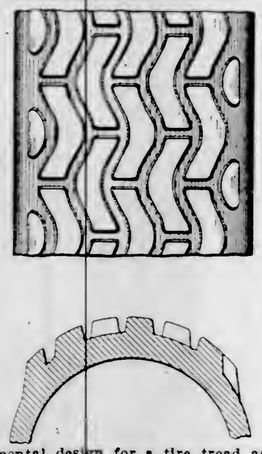
The ornamental design for an incense-burner as shown and described.

63,335. BANK. CHRISTIAN SMITH, New York, N. Y. Filed Nov. 4, 1920. Serial No. 421,776. Term of patent 3½ years.



The ornamental design for a bank as shown.

63,336. TIRE TREAD. BENJAMIN C. SWINEHART, Sandusky, Ohio. Filed Aug. 11, 1923. Serial No. 6,995. Term of patent 7 years.



The ornamental design for a tire tread as shown.

63,337. GOBLET OR SIMILAR ARTICLE. SAMUEL TRIPPI, Buffalo, N. Y. Filed Mar. 12, 1923. Serial No. 5,438. Term of patent 7 years.



The ornamental design for a goblet or similar article, as shown.

63,338. GOBLET OR SIMILAR ARTICLE. SAMUEL TRIPPI, Buffalo, N. Y. Filed Mar. 12, 1923. Serial No. 5,439. Term of patent 7 years.



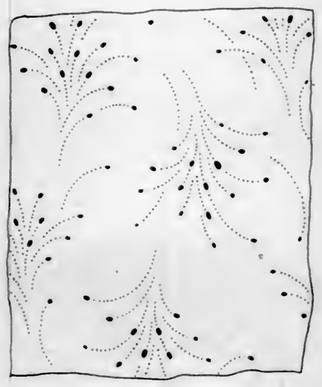
The ornamental design for a goblet or similar article, as shown.

63,339. FLOCKED VOILE FABRIC. EDWARD B. VANDERGAW, Brooklyn, and JULES HEINRICH, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y., a Corporation of New York. Filed Aug. 18, 1922. Serial No. 3,410. Term of patent 3½ years.



The ornamental design for flocked voile fabric, as shown.

63,340. FLOCKED VOILE FABRIC. EDWARD B. VANDERGAW, Brooklyn, and JULES HEINRICH, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y., a Corporation of New York. Filed Aug. 18, 1922. Serial No. 3,413. Term of patent 3½ years.



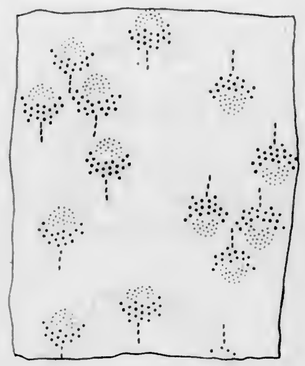
The ornamental design for flocked voile fabric, as shown.

63,341. FLOCKED VOILE FABRIC. EDWARD B. VANDERGAW, Brooklyn, and JULES HEINRICH, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y., a Corporation of New York. Filed Aug. 18, 1922. Serial No. 3,416. Term of patent 3½ years.



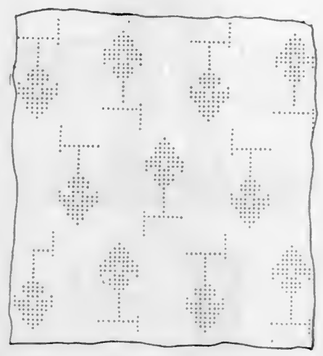
The ornamental design for flocked voile fabric as shown.

63,342. FLOCKED VOILE FABRIC. EDWARD B. VANDERGAW, Brooklyn, and JULES HEINRICH, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y., a Corporation of New York. Filed Aug. 18, 1922. Serial No. 3,418. Term of patent 3½ years.



The ornamental design for flocked voile fabric, as shown.

63,343. FLOCKED VOILE FABRIC. EDWARD B. VANDERGAW, Brooklyn, and JULES HEINRICH, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y., a Corporation of New York. Filed Aug. 18, 1922. Serial No. 3,428. Term of patent 3½ years.



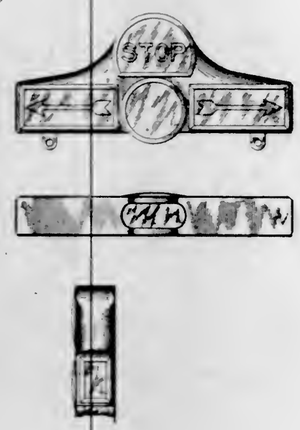
The ornamental design for flocked voile fabric, as shown.

63,344. DOLL. LOUISE A. WALLIS, Los Angeles, Calif. Filed Nov. 16, 1922. Serial No. 4,313. Term of patent 14 years.



The ornamental design for a doll, as shown.

63,345. CASE FOR AUTOMOBILE SIGNALS. ROBERT F. WENCLASKI, Detroit, Mich. Filed Dec. 16, 1921. Serial No. 522,927. Term of patent 3½ years.



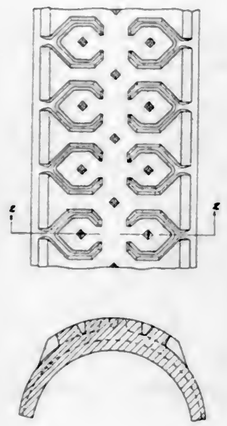
The ornamental design for a case for automobile signals, as shown.

63,346. DESK. SYDNEY W. WILLIAMSON and EDWARD DISHER, Cincinnati, Ohio. Filed July 6, 1921. Serial No. 482,852. Term of patent 3½ years.



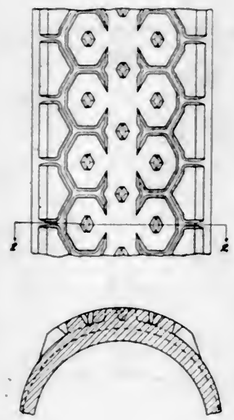
The ornamental design for a desk, as shown.

63,347. TIRE TREAD. PAUL WORTH, Akron, Ohio, assignor to The India Tire and Rubber Company, Mogadore, Ohio, a Corporation of Ohio. Filed Jan. 7, 1922. Serial No. 102. Term of patent 14 years.



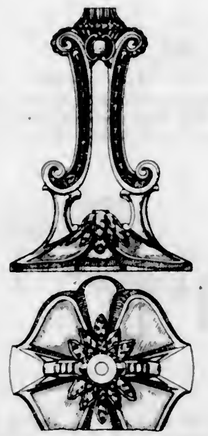
The ornamental design for a tire tread as shown.

63,348. TIRE TREAD. PAUL WORTH, Akron, Ohio, assignor to The India Tire and Rubber Company, Mogadore, Ohio, a Corporation of Ohio. Filed Jan. 7, 1922. Serial No. 103. Term of patent 14 years.



The ornamental design for a tire tread as shown.

63,349. LAMP STANDARD. FRANK YOKEL, Avalon, Pa., assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Apr. 5, 1923. Serial No. 5,703. Term of patent 7 years.



The ornamental design for a lamp standard, as shown.

63,350. LAMP STANDARD. FRANK YOKEL, Avalon, Pa., assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Apr. 5, 1923. Serial No. 5,704. Term of patent 7 years.



The ornamental design for a lamp standard, as shown.

PATENTS

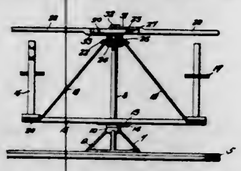
GRANTED NOVEMBER 20, 1923.

1,474,340. HALTER STRAP. FRED L. ALBIN, Kiowa, Colo. Filed Feb. 12, 1923. Serial No. 618,635. 3 Claims. (Cl. 267—69.)



1. A halter of the character described, comprising a solid elastic body, U-shaped members of the same width as and enfolding each end of said body, said U-shaped members having their looped ends extending beyond the ends of said body a distance sufficient to allow for the insertion of attaching members, and reinforcing elementa embedded in the ends of said elastic body for the strengthening of the same.

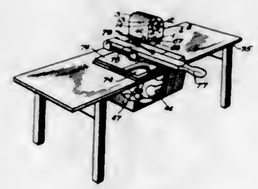
1,474,341. PORTABLE MERRY-GO-ROUND. STENGRIM ALSETH, Minneapolis, Minn. Filed Feb. 17, 1921. Serial No. 445,694. 1 Claim. (Cl. 46—27.)



In an apparatus of the class described, a base, a vertical support secured thereon centrally thereof and formed at its top with a bearing, a one-piece revolvable supporting member provided centrally with a depending bearing mounted on the bearing of said support, a vertically disposed stationary post secured centrally at its lower end to said base and extending up through said support and member and further projecting a substantial distance above said member, a carrier secured centrally to and extending transversely of each end of said member and further projecting beyond each side of said member, an annular bearing integral with said post at a point in proximity to the upper end thereof, a block surrounding said post, mounted on said annular bearing and formed at each side with a lateral flange, two pair of oppositely extending depending braces, the braces of each pair diverging with respect to each other from their upper to their lower ends and connected at their upper ends to a flange and having angular lower terminal portions secured to the ends of a carrier, a friction disk fixedly secured to the top of said post, a pair of oppositely disposed hand levers, each of said levers having an offset inner terminal portion of greater width than the width of the lever, said offset portions having their free ends loosely mounted on said post and arranged against the upper and lower face of said disk, and friction dogs carried on the inner faces of said offset portions and engaging said disk to revolve said member.

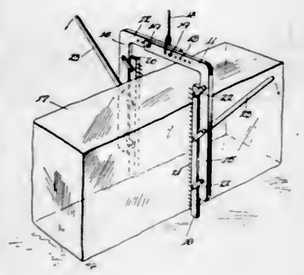
1,474,342. EXPOSURE TIMER. WILLIAM C. ANDERSON, Kansas City, Mo. Filed Apr. 1, 1922. Serial No. 548,605. 7 Claims. (Cl. 161—26.)

4. In an exposure timer a circuit closer, upper and lower contacts for said circuit closer, a central contact adapted for engaging either upper or lower contacts, means for manually raising said central contact into engagement with said upper contact, motor driven mechanism for releasing said central contact to engage said



lower contact and manually set timing mechanism for controlling the duration of contact between said central and upper contacts.

1,474,343. ICE-CUTTING IMPLEMENT. FRANK E. BIDDINGER, Nashville, Tenn. Filed Nov. 17, 1921. Serial No. 515,836. 5 Claims. (Cl. 125—23.)

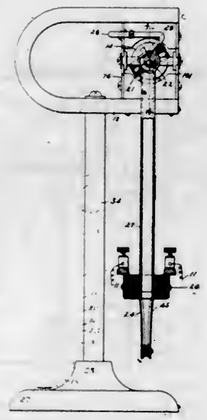


1. In an ice cutting implement, a U-shaped frame suspended with its open end downwards to straddle an ice cake, a pair of toothed members mounted on the upright sides of said frame so as to have parallel motion thereon to and from each other in substantially horizontal direction and means for actuating said members.

1,474,344. ELECTRICAL RELAY. RALPH C. BROWNE, Salem, Mass. Filed Apr. 29, 1918. Serial No. 231,318. 29 Claims. (Cl. 200—110.)

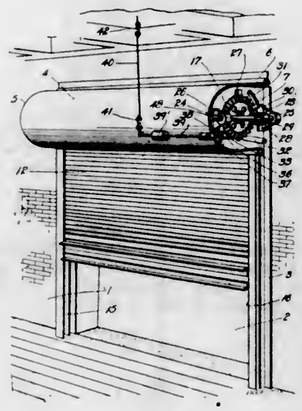
22. A relay comprising a magnet and a magnetizable mass between the poles thereof and spaced therefrom to provide an annular magnetic air gap, a coil arranged to rotate through said air gap and responsive to current in a circuit including such coil, a sustaining member movable with said coil, a weight normally sustained by said member and released on rotation of said member to a predetermined position, and a locking member carried by said mass and movable into position to prevent rotation of said coil.

26. A relay comprising a rotatable cup, a loose member sustained normally therein, and a rotatable coil con-



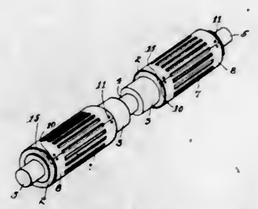
nected to said cup and arranged to tilt the cup to release the loose member therefrom when rotated through a predetermined arc.

1,474,345. FIRE DOOR. CLARENCE R. BUMBARGER, Kansas City, Mo., assignor to George W. Johnson Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed Nov. 30, 1921. Serial No. 518,801. 4 Claims. (Cl. 189—58.)



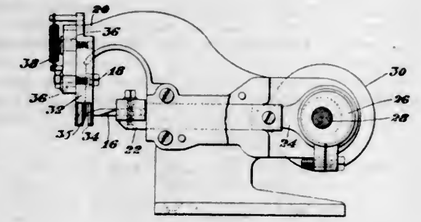
1. A fire door comprising a rotatable shaft and a drum rotatable about the shaft, a spring connecting the shaft and drum, a flexible door wound on the drum, a winding shaft geared to the drum shaft, stop member rotatable with the drum shaft, a stop member rotatable with the winding shaft in timed relation to the other stop member, and a detent for the drum shaft.

1,474,346. SPINNING AND DRAWING ROLL. LEON W. CAMPBELL, Providence, R. I. Filed Aug. 30, 1922. Serial No. 585,298. 13 Claims. (Cl. 19—143.)



12. As a new article of manufacture, a flexible covering for spinning or drawing rolls consisting in a tubular shell provided with slits forming a plurality of flexible sections adapted to make yielding contact with the material drawing across the roll.

1,474,347. TRIMMING MACHINE. RENÉ E. DUPLESSIS, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 6, 1920. Serial No. 394,184. 10 Claims. (Cl. 12—85.)



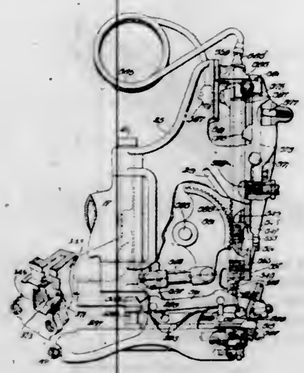
1. A shoe-trimming machine comprising means arranged to trim the marginal portions of a plurality of superposed layers of material, and two confronting elements arranged to guide the untrimmed portions to said trimming means, one of said confronting elements being arranged to run on the body of the shoe and to yield along lines substantially parallel to the planes of said layers.

10. A shoe-trimming machine comprising means arranged to trim the marginal extension formed by the sole and outturned flange of the upper of a stitch down shoe, and cooperative work-guiding elements spaced a fixed distance apart and arranged to engage opposite faces of said extension in advance of the trimming locality so as to close the outturned flange and the sole toward each other without clamping them.

1,474,348. MACHINE FOR OPERATING ON SHOE BOTTOMS. EDWARD ERICKSON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed June 4, 1917, Serial No. 172,658. Divided and this application filed Dec. 4, 1919. Serial No. 342,406. Renewed Mar. 28, 1923. 26 Claims. (Cl. 1—18.1.)

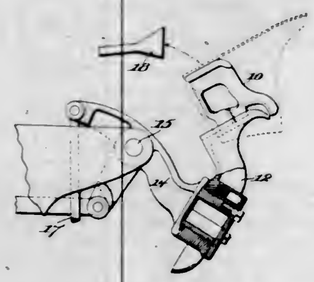
5. A machine for operating on shoe bottoms having, in combination, tacker mechanism including a driver-bar having a driver, a driver slide movable relatively to the

driver-bar, and a driving spring connected to the bar and the slide; a latch to hold the bar withdrawn from the shoe; means to move the slide relatively to the bar



to tension the spring; and means carried by the slide to trip the latch and permit the tensioned spring to advance the driver.

1,474,349. SHOE-TURNING MACHINE. EDWARD ERICKSON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 13, 1920. Serial No. 373,580. 3 Claims. (Cl. 12—57.)

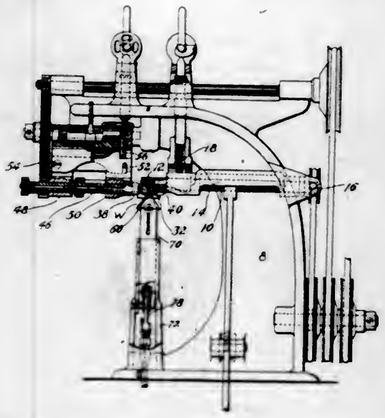


1. A shoe turning machine comprising a turning plunger, and a cooperating heel cup having a base portion, upstanding rear and side walls of substantially U-shaped contour, recesses formed in the curve joining the rear and side walls and extending forwardly into the side walls, leaving the rear wall unbroken from the base portion to the upper edge, and a clearance rib extending completely about the top edge of the walls to remove the shoe upper from the faces of the walls during the turning operation.

1,474,350. SEAM-RUBBING MACHINE. FREDERICK WILLIAM FARRAR, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 21, 1920. Serial No. 418,549. 21 Claims. (Cl. 69—7.)

1. In a seam rubbing machine, a work support having a ridge to separate the work pieces on one side of the seam, and a mechanically actuated plow to feed and separate the margins of the two pieces of work where they project beyond the seam.

21. In a seam rubbing machine, a rubbing tool, a work supporting post over which "closed" work may be threaded as the seam is rubbed, a toggle to sustain the



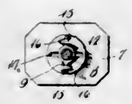
post rigidly against the rubbing pressure, means to adjust the position of the toggle, and means to break the toggle to depress the post.

1,474,351. REVERSING TURBINE. WARREN B. FLANDERS, Essington, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 13, 1920. Serial No. 381,138. 5 Claims. (Cl. 253—70.)



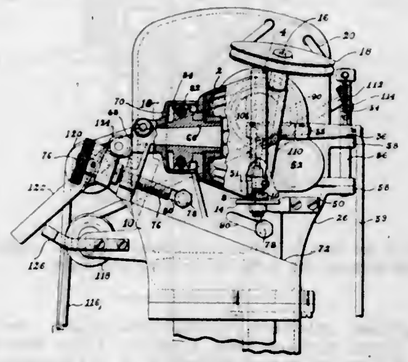
1. An inseam trimming machine having, in combination blading set and a reversing blading set having opposed exhaust ends and a series of blades cooperating with one set to insure the discharge of steam therefrom in the direction of rotation of the turbine.

1,474,352. FASTENER FOR CUFF BUTTONS, ETC. MORRIS FOLKMAN, Cleveland, Ohio, assignor of one-half to Frank J. Chalus, Cleveland, Ohio. Filed May 7, 1923. Serial No. 637,268. 3 Claims. (Cl. 24—104.)



1. A separable button comprising two members one of which is provided with a socket and the other with a stem, the socket having a radial slot and a catch on the outside of the socket, and the stem having a pair of arms one of which may be entered through the slot and the other of which is engageable with the catch, said arms being engaged by turning the members with respect to each other.

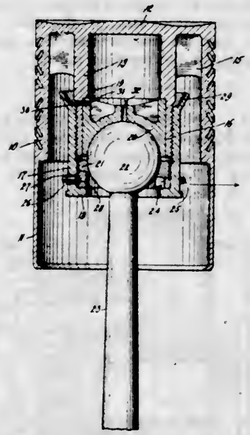
1,474,353. INSEAM-TRIMMING MACHINE. ALFRED B. FOWLER, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 2, 1920. Serial No. 348,828. 38 Claims. (Cl. 12—82.)



1. An inseam trimming machine having, in combination, a rotary trimming knife, a knife guard having provision for movement away from the knife to permit access to the knife, and work guiding and feeding members movable with the guard away from the knife.

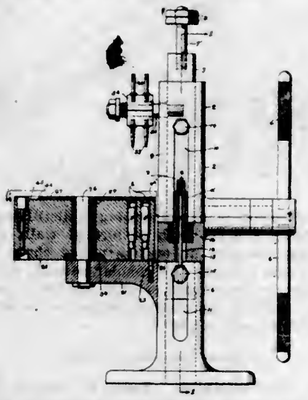
38. An inseam trimming machine comprising means for trimming off surplus inseam substance, a guard movable toward and from the working point of said means, and work-feeding means carried by and movable with said guard.

1,474,354. PISTON. ALDO M. FRANCHI, New York, N. Y., assignor to Franchi Ringless Piston Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 18, 1923. Serial No. 613,386. 2 Claims. (Cl. 74—108.)



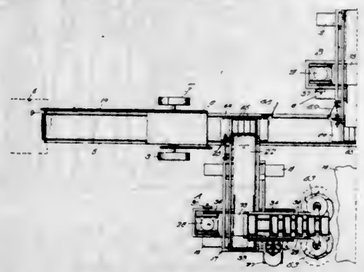
2. In a ball and socket joint, the combination with a sleeve, of two socket members therein, one of said socket members being fixed and the other movable in the direction of the longitudinal axis in said sleeve, a ball member seated in said socket members, said movable socket member being wedge-shaped, a wedge-shaped member movable laterally within said sleeve and abutting against said movable socket member, and a ring-shaped spring surrounding said sleeve having spaced apart ends, one of said ends being bent radially inwards and extending through said sleeve into engagement with said laterally movable member to shift the latter laterally so as to cause movement of said movable socket member in the direction of the longitudinal axis of said sleeve.

1,474,355. MACHINE FOR RENEWING CARTRIDGES. WILLIAM D. FRASER, Cleveland, Ohio. Filed Feb. 4, 1918. Serial No. 215,256. 13 Claims. (Cl. 86—23.)



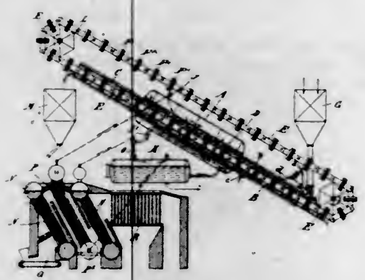
9. In a machine for renewing cartridges, a standard and a reciprocable plunger in said standard, a turret rotatably mounted on one side of said standard and having a series of pockets adapted to receive cartridge shells, means locked to said turret and adapted to carry therewith and center live primers over said pockets and a thrust device supported on said plunger and adapted to force the primers downward through said centering means.

1,474,356. LOADING AND CONVEYING APPARATUS. JAMES C. FRENCH, Chicago, Ill., assignor, by mesne assignments, to F. C. Austin Machinery Company, a Corporation of Illinois. Filed Feb. 13, 1919. Serial No. 276,710. 5 Claims. (Cl. 198—77.)



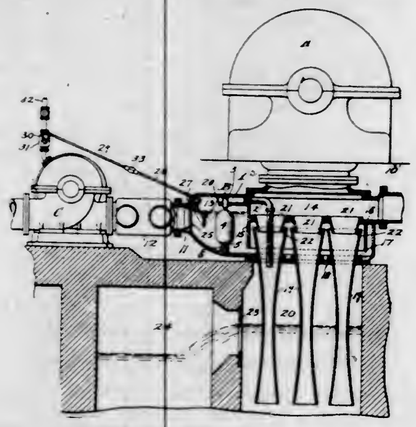
1. In apparatus for handling materials, the combination of a portable main frame having a track thereon, a transverse conveyer arranged parallel with and above said track, said transverse conveyer being supported on the main frame, a shifting frame disposed below said transverse conveyer and provided with wheels to travel on said track, so that said shifting frame is movable back and forth below the transverse conveyer, having provisions to drive said conveyer from the shifting frame, mechanism to automatically reverse the direction of travel of said shifting frame, apparatus carried by the shifting frame to deliver the materials onto said transverse conveyer, and common power means for operating said last mentioned apparatus, said shifting frame and said conveyer.

1,474,357. DISTILLATION OF BITUMINOUS MATERIAL. MAXIMILIAN GERCKE, Pasing, near Munich, Germany. Filed Apr. 21, 1921. Serial No. 463,382. 8 Claims. (Cl. 202—8.)



8. A distillation plant comprising a distillation chamber, a tubular passage with perforated walls extending through said chamber, an endless piston chain conveyor adapted to pass through said tubular passage, an oil bath surrounding the lower part of said tubular passage, and means for causing superheated steam to pass through the space above said oil bath.

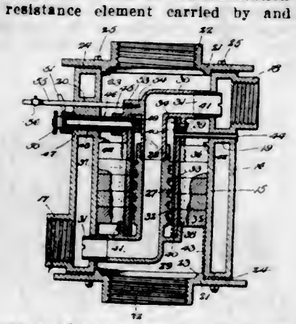
1,474,358. CONDENSER. JOHN F. GRACE, Kearney, N. J., assignor to Worthington Pump and Machinery Corporation, a Corporation of Virginia. Filed Nov. 6, 1919. Serial No. 336,026. 7 Claims. (Cl. 261—76.)



1. A jet condenser having a top steam chamber, a water supply chamber at one side of the steam chamber, a plurality of ejector condensing nozzles having their open top ends directly below the steam chamber, a water chamber surrounding the upper ends of the ejector nozzles, and an annular apron enclosing the water chamber about the ejector nozzles whereby the water passes from the water supply chamber beneath the annular edge of the apron to the water chamber.

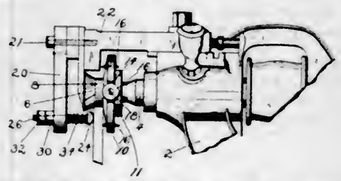
1,474,359. FUEL-MIXTURE HEATING AND VAPORIZING DEVICE. WILLIAM WALLACE GRANT, Brooklyn, N. Y.; Helen M. W. Grant administratrix of said William Wallace Grant, deceased. Filed May 3, 1921. Serial No. 466,613. 19 Claims. Cl. 123—122.)

1. A fuel heating and vaporizing device including a shell, a jacket surrounding the shell, a tubular core extending through the shell in communication with the jacket, a resistance element carried by and insulated



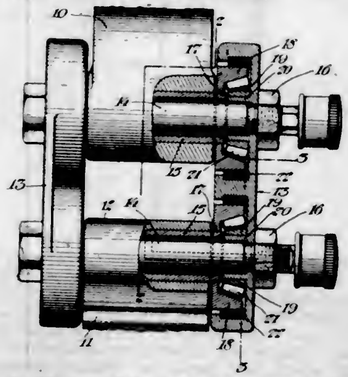
from the core, a sleeve surrounding the core overlying said element, and baffles surrounding said sleeve.

1,474,360. MACHINE FOR MARKING SOLES. JOHN C. HARDIE, Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 4, 1919. Serial No. 269,628. 11 Claims. (Cl. 12—17.)



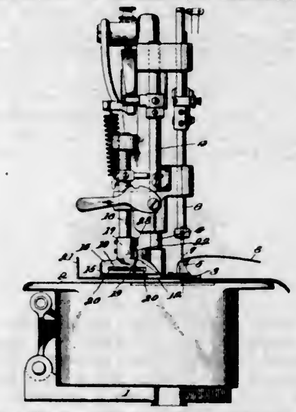
1. In a machine of the class described, the combination of a sole edge guide, means for operating upon a face of the sole engaging said guide to mark said face parallel to and at a predetermined distance from the sole edge with a clearly defined area of demarcation extending from the marginal edge to the inner portion of the sole, a rest engaging the untreated face of the sole, and resilient means acting upon the rest to cause it to hold the sole in marking relation to the marking means.

1,474,361. SHACKLE FOR VEHICLE SPRINGS. ARCHER H. HARRIS, Barberton, Ohio, assignor to Howard C. Harris, Akron, Ohio. Filed Dec. 9, 1920, Serial No. 429,312. Renewed Aug. 5, 1922. Serial No. 579,949. 13 Claims. (Cl. 267—54.)



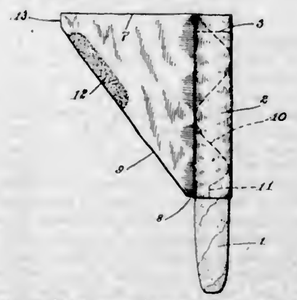
4. A shackle comprising two side supporting members, a non-rotatable pin element connecting said members in spaced parallel relation to each other, an oscillatory mounting attachment loosely encircling said pin element, and bearings for the ends of the said attachment, each of said bearings comprising two complementary sections with antifriction members therebetween, one of said sections being fast on the adjacent end of the attachment and the other section being fast on the proximate supporting member.

1,474,362. SEWING MACHINE FOR FORMING CONCEALED STITCHES. JESSE J. HEAP, Nyack, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed May 7, 1921. Serial No. 467,520. 8 Claims. (Cl. 112—203.)



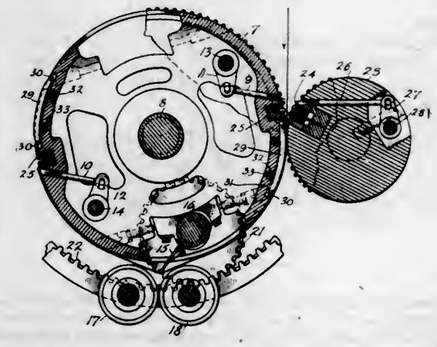
1. The combination with a work support, a presser foot, stitching mechanism including a needle, a feed dog, and means for guiding a strip from one side of the needle path into the needle path and thence away from the needle on the same side thereof as received; of loading means movable up and down with the presser foot and adapted to engage the end of the strip and bend the same in the direction of feed to cause the end of the strip to be engaged by the feed dog.

1,474,363. CIGAR WRAPPER. MORTIMER S. HEINEMAN, Baltimore, Md. Filed Feb. 12, 1923. Serial No. 618,606. 2 Claims. (Cl. 131—11.)



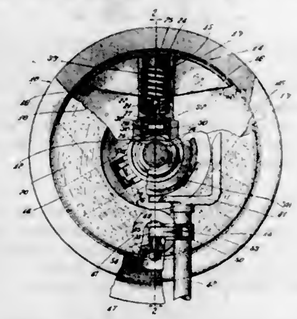
1. A cigar package comprising a cigar and a wrapper of thin flexible material, the wrapper having two opposite substantially straight parallel edges and an end edge sharply inclined to said parallel edges, and connecting said parallel edges, the wrapper being wound about the cigar with the parallel edges extending around the cigar at right angles to its length, and the inclined edge extending around the cigar in the form of a helix, the wrapper covering from two-thirds to three-fourths of the length of the cigar from the tuck end toward the head end, and a band covering one edge of the wrapper, the other edge being tucked in about the end of the cigar.

1,474,364. SHEET CONTROL FOR FOLDING MECHANISM. FREDERICK HEEB, Brooklyn, N. Y., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed May 24, 1921. Serial No. 472,202. 15 Claims. (Cl. 270—77.)



1. The combination with a rotary carrier having sheet taking devices, of a co-operating abutment between which and the carrier a product passes, and bodily yielding friction devices carried by one of the members for engaging the product to assist in advancing it.

1,474,365. COMBINED CLUTCH AND BRAKE MECHANISM. IRVIN HUPP, Chicago, Ill., assignor to Flexo-Motive Corporation, Chicago, Ill., a Corporation of Delaware. Filed Aug. 6, 1921. Serial No. 490,216. 23 Claims. (Cl. 192—18.)

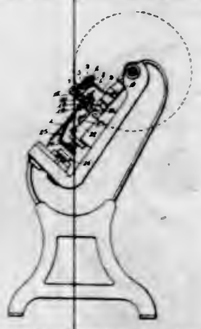


1. Mechanism of the character described, comprising, in combination with a fly-wheel, a plurality of segmental members adapted to have bearing relation with the inner circumference of the fly-wheel, a driven member arranged concentric with the fly-wheel and said segmental members, spring-controlled means fulcrumed intermediate of the ends thereof on said driven member and operatively connected with said segmental members and normally tending to force the latter into clutching relation with the fly-wheel, and means adapted to have operative engagement with the free ends of said first means whereby said spring-controlled means may be actuated and said segmental members thereby retracted from operative relation with the inner circumference of the fly-wheel.

1,474,366. GUARD FOR PUNCH PRESSES. ERIC ISCHINGER, Rochester, N. Y., assignor of one-half to Frank Keiper, Rochester, N. Y. Filed June 26, 1920. Serial No. 392,054. 13 Claims. (Cl. 74—105.)

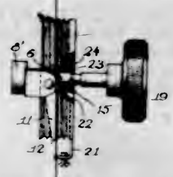
1. In a safety guard for punch presses, the combination of a pendulum member adapted to swing in front of said punch press, a bridge member supported on said

punch press, a pivot carrying member supported on said bridge member, said pivot carrying member being adapted to be adjusted on said bridge member at right angles thereto toward or away from in front of said punch



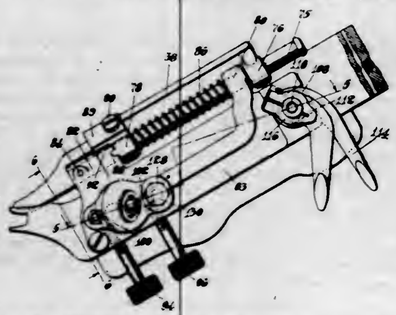
press, said pivot carrying member having said pendulum member mounted to swing thereon, an actuating member carried by said punch press and operating said pendulum guard on the operation thereof.

1,474,367. COMBINED RHEOSTAT AND CUT-OUT. JOHN ELLIOTT JENKINS, Chicago, Ill. Filed May 20, 1922, Serial No. 562,460. Renewed Aug. 6, 1923. 2 Claims. (Cl. 219—56.)



1. In an apparatus of the class described, a battery, an adjustable rheostat, a detector, an amplifier, a single knob and means whereby the rheostat may be adjusted by turning the knob, all of said devices cut in or out by pushing or pulling the knob.

1,474,368. MACHINE FOR OPERATING ON FASTENINGS. ARTHUR ERNEST JERRAM, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 18, 1919. Serial No. 345,764. 31 Claims. (Cl. 1—6.)



1. In a machine of the class described, the combination of a raceway, a cover for the raceway mounted to tip away from the raceway to uncover the latter, and means for coupling the raceway and the cover, constructed and arranged to constrain the raceway and the cover to move relatively by a compound movement in uncovering the raceway.

1,474,369. REAMER. EDWARD D. JOHNSON and EDWARD A. ZEMPEL, Milwaukee, Wis., assignors to Wetmore Reamer Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed May 14, 1923. Serial No. 638,747. 5 Claims. (Cl. 77—755.)



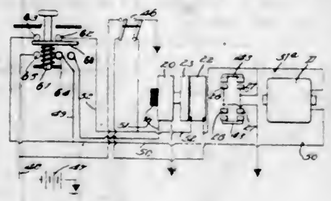
1. In a reamer the combination of a body having longitudinal blade grooves and a stud at the front end, and a clamping nut threaded on the stud and formed with correspondingly spaced blade grooves which are slightly offset backward from the grooves in the body when the nut is screwed tightly against the end of the body.

1,474,370. ART OF DENTAL SURGERY. LAWRENCE A. KIANDER, New York, N. Y. Filed Mar. 16, 1922. Serial No. 544,372. 10 Claims. (Cl. 32—12.)



3. The herein described means for mounting a movable clasp in connection with a denture body comprising a unit composed of separate parts adapted to be imbedded in said denture body, and a pin or part permanently retained in and loosely mounted in connection with said unit and projecting therefrom.

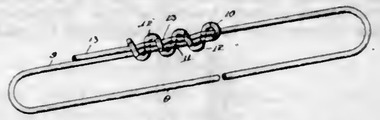
1,474,371. ENGINE STARTER. ALLEN T. KIRK, Chicago, Ill. Filed Jan. 3, 1922. Serial No. 526,769. 10 Claims. (Cl. 290—31.)



1. Engine starting apparatus comprising a dynamo electric machine, a pinion in driven relation to said machine, said pinion adapted to be moved into and out of mesh with teeth carried by means fixed with respect to the crank shaft of the engine to be started, electromagnets for so moving said pinion, a snap-over switching mechanism controlling the circuit of said machine, said snap-over switching mechanism being operated by one of the aforesaid electromagnets, and being adapted to insure that said machine is supplied with electrical energy only when the teeth of said pinion are in mesh with their co-operating teeth, and a circuit for one of said electromagnets joined to the output terminal of said machine.

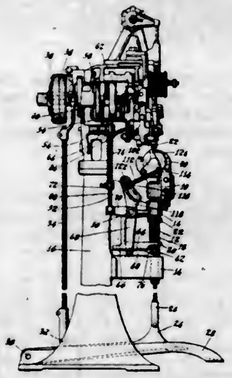
1,474,372. WIRE-STRAP SEAL AND METHOD OF FORMING THE SAME. WINFRED N. LUACOTT, Weehawken, N. J. Filed Jan. 10, 1920. Serial No. 350,544. 3 Claims. (Cl. 24—27.)

3. A wire strap having at one end thereof an open helix integral with and enfolding the adjacent straight portion of said wire, said helix being offset in relation to the enfolded straight portion of said wire for holding said straight portion against the sides of said helix to



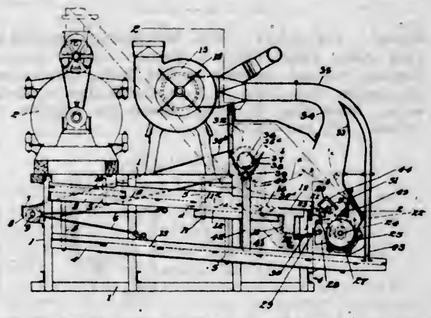
provide a passage for the opposite end of said wire between the said straight portion of said wire and the opposite side of said helix.

1,474,373. FASTENING INSERTING MACHINE. FRED L. MACKENZIE, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 17, 1919. Serial No. 290,651. 36 Claims. (Cl. 1—2.)



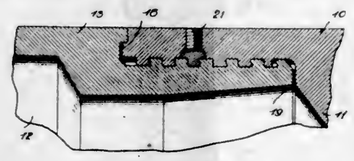
9. In a machine of the class described, fastening inserting means, means for feeding the work, a gage located beyond the plane of fastening insertion and constructed and arranged for reciprocation and to be displaced by the work as the same is fed by the feeding means, and means for automatically returning the gage to operative position.

1,474,374. METHOD OF AND APPARATUS FOR TREATING COTTON SEED. DANIEL MALONEY, Springfield, Ohio, assignor to The Bauer Brothers Company, Springfield, Ohio, a Corporation of Ohio. Filed Nov. 10, 1921. Serial No. 514,376. 18 Claims. (Cl. 130—17.)



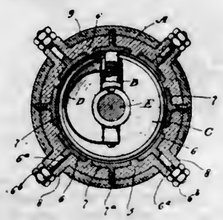
2. The method of treating seed consisting in subjecting the cut material to an initial operation to separate the meats from the hulls and uncut seed, and subjecting the uncut seed and hulls to an accelerating action, and deflecting the accelerated material across an air current of sufficient strength to carry therewith the hulls but permit the uncut seed to follow the course of their deflection.

1,474,375. AIR-FLASK JOINT. JOHN J. MOORE, Newport, R. I., assignor to the Government of the United States. Filed Sept. 10, 1920. Serial No. 409,490. 1 Claim. (Cl. 285—146.)



In a torpedo construction, in combination, a central body and an end body each provided with coacting threaded surfaces whereby the parts may be screwed together, the outer of said parts being provided intermediate the ends of the threaded portion with a circumferential groove and a soft metal packing ring mounted in said groove and with its exposed surface formed to engage the threads of the other member when the parts are screwed together, a series of set screws mounted in the outer surface of the outer threaded member and coacting at their inner ends with said soft packing ring whereby after the parts are assembled the set screws may be tightened to securely seal the joint and packing rings positioned at the ends of the threaded surface adapted to be clamped as the parts are screwed together.

1,474,376. TIMER FOR IGNITION SYSTEMS. ERRETT LUCAS MORSE, Chicago, Ill., assignor to White Brass Castings Company, Chicago, Ill., a Corporation of Illinois. Filed July 17, 1922. Serial No. 575,481. 3 Claims. (Cl. 200—26.)

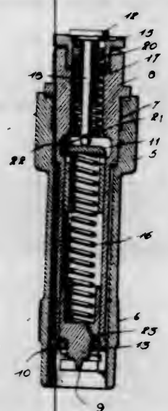


1. In a timer structure, a ring of insulating material, a plurality of contact plates embedded in the inner surface of said ring, serrated spindles on said plates extended through the opposite side of said ring, and a metal casing cast around said ring in which alternate spindles are embedded, the remaining spindles projecting through said casing and insulated therefrom.

1,474,377. TORPEDO. TOM B. MYERS, Newport, R. I., assignor to the Government of the United States. Filed Aug. 9, 1920. Serial No. 402,086. 4 Claims. (Cl. 60—44.)

1. In a device of the character described, in combination, a valve carrying member, a plurality of valves and valve seats associated therewith, one of said valves being subjected to pressure in the combustion flask to close a second valve, said second valve being associated with the third valve to open the same as said second valve ap-

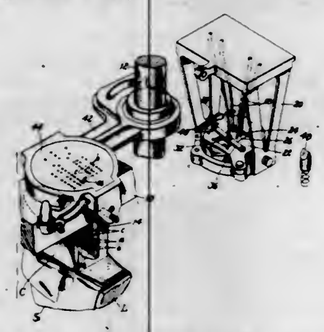
proaches closed position, said device being provided with means for equalizing the pressure on the opposite sides of said first mentioned valve and a firing spring asso-



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ciated therewith adapted to move the first mentioned valve to firing position after the pressure has been equalized.

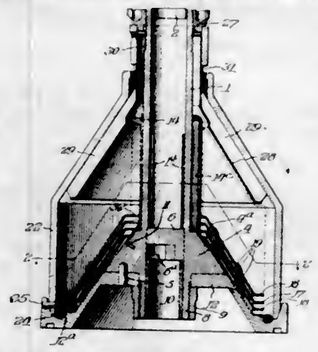
1,474,378. ATTACHING MACHINE. JOSEPH H. POPE, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 23, 1921. Serial No. 487,044. 13 Claims. (Cl. 1—19.)



13. In a counter-attaching machine, a counter-holding member having a plurality of sets of receiving openings, loading mechanism provided with sets of fastener-openings movable into alinement with those of the counter-holding member, and fastener-distributing mechanism with which the loading mechanism co-operates, said distributing mechanism including a foot-plate having a section containing openings corresponding to a single set of the fastener-openings and being movable to bring said openings into alinement with any one of the sets.

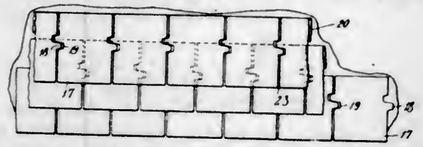
1,474,379. SEPARATOR-BOWL CONSTRUCTION. CHARLES A. ROBERTSON, Springfield, Ill., assignor to Montgomery Ward & Co., Inc., Chicago, Ill., a Corporation of Illinois. Filed Dec. 15, 1921. Serial No. 522,675. 5 Claims. (Cl. 233—29.)

1. In a device of the class described the combination of a tubular shaft member having a foot portion of frusto-conical form adjacent one extremity thereof, the wall of said member being provided with longitudinal slots above said foot portion, a base plate secured against the under face of said foot portion, a tubular core member encompassing the slotted part of said shaft member and having a flaring lower extremity adapted to fit on the foot portion, said core member affording lateral apertures for egress of fluid, a series of disks of frusto-conical form encompassing said core member and disposed in



superposed relationship with the lower disks of the series encompassing said foot portion, said disks being spaced apart so as to afford passage of fluid therebetween, and a shell cooperating with said base plate to enclose said disks.

1,474,380. STRIP ROOFING CONSTRUCTION. THOMAS ROBINSON, Babylon, N. Y., assignor to Anaconda Sales Company, a Corporation of Delaware. Filed Mar. 3, 1923. Serial No. 622,514. 5 Claims. (Cl. 108—8.)

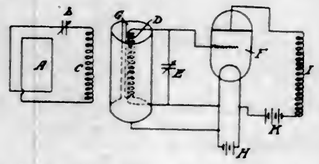


1. A strip roofing of the class described, comprising a plurality of elements having interengaging portions along their lateral edges and means connecting said elements and serving to limit their separation.

1,474,381. DESICCATED MALT EXTRACT AND METHOD OF PRODUCING THE SAME. ELMER DONALD ROGERS, Detroit, Mich. Filed Apr. 16, 1919, Serial No. 290,583. Renewed Apr. 2, 1923. 6 Claims. (Cl. 195—32.)

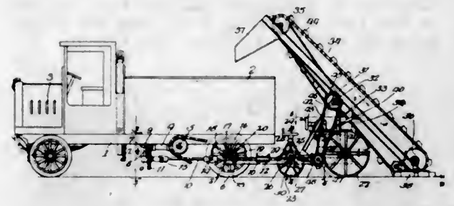
1. The herein described product, the solids of malt extract in the form of a practically dry powder and having practically full diastatic power of the original extract.

1,474,382. APPARATUS FOR WIRELESS TELEGRAPHY AND TELEPHONY. HENRY JOSEPH ROUND, London, England, assignor to The Radio Corporation of America, New York, N. Y., a Corporation of Delaware. Filed Mar. 31, 1920. Serial No. 370,176. 2 Claims. (Cl. 250—27.)



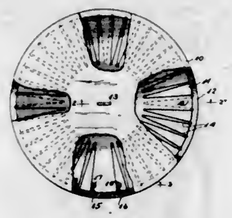
1. In a wireless receiver, the combination with an aerial circuit containing a primary winding of a secondary winding, a condenser connected across the ends of the secondary winding, a valve containing a filament, a grid and an anode, the filament and grid being connected in series with the secondary winding, a battery adapted to heat the filament and a metal sheath surrounding the secondary winding and connected to the battery.

1,474,383. WAGON LOADER. LESLIE A. RUSSELL, Chicago, Ill., assignor, by mesne assignments, to F. C. Austin Machinery Company, a Corporation of Illinois. Filed Dec. 15, 1919. Serial No. 344,938. 13 Claims. (Cl. 214—41.)



1. In combination with a motor vehicle provided with a receptacle, a self-sustaining wagon loader for delivering materials from the street upwardly and then downwardly into the receptacle of said vehicle power driving mechanism, and power transmitting connections to connect the wagon loader directly with the driving power of said vehicle, so that said motive power is employed to operate the wagon loader as well as to drive said vehicle.

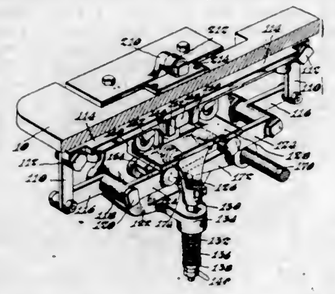
1,474,384. ELECTRIC HEATING UNIT. THOMAS C. RUSSELL, Chicago, Ill. Filed June 17, 1922. Serial No. 569,091. 3 Claims. (Cl. 219—63.)



1. In an electric heating unit of the class described, the combination of a supporting base of thin insulating material, a resistance ribbon in the form of a resistance wire bent back and forth in zigzag fashion in the form of adjacent loops, said loops being similar and all of the same length, the ribbon being applied flatly against said base with the majority of the loops on one side thereof, the other loops at various points hooking around the edge of the base to lie against the opposite face thereof to thus secure the ribbon in place.

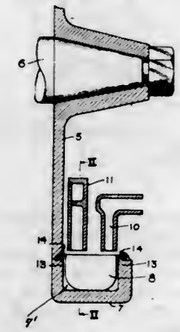
1,474,385. MEASURING MACHINE. GUSTAV ADOLF SCHETTLER, Leicester, England, assignor to The Turner Tanning Machinery Company, Peabody, Mass., a Corporation of Maine. Filed Oct. 24, 1922. Serial No. 596,656. 17 Claims. (Cl. 33—124.)

1. In a measuring machine, means for contacting with the material to measure the same, a recorder of measuring units, connections between the recorder and the measuring means, a mechanism for throwing the recorder out of operation, a support over which the material passes to the measuring means, control mechanism associated with the support for controlling the throw-out



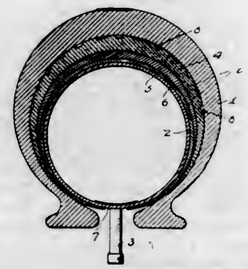
mechanism, said control mechanism comprising a conditioning means therefor, and means for preventing unauthorized manipulation of the conditioning means.

1,474,386. TURBINE-BLADE STRUCTURE. HENRY F. SCHMIDT, Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 16, 1920. Serial No. 374,373. 8 Claims. (Cl. 253—93.)



1. A turbine wheel having an overhanging flange, shoulders on the inner periphery of said flange and sheet metal buckets nested within said flange and supported by the flange and the shoulders.

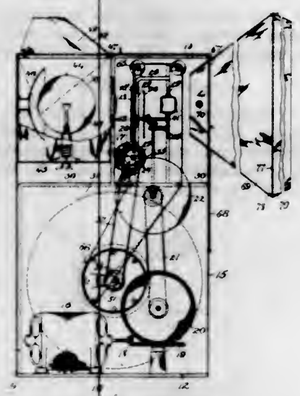
1,474,387. PNEUMATIC TIRE. GERHARD G. SCHONBERGER, Oak Park, Ill. Filed Dec. 1, 1922. Serial No. 604,381. 1 Claim. (Cl. 152—18.)



A protective insert for pneumatic tires comprising an inner tubular layer of pliable rubber slit longitudinally along its inner side to provide an opening for the in-

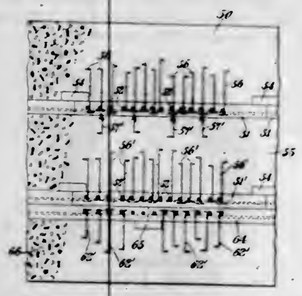
section of an inflatable inner tube, said layer being of uniform thickness throughout, an intermediate layer of hard puncture resisting rubber extending along the tread and side portions and to within a short distance of the inner ends of said inner layer, and an outer layer of soft cushioning rubber extending along the tread and side portions to within a short distance of the inner ends of said inner layer, said intermediate and outer layers being of decreasing thickness from the tread portion to the ends of the side portions and all said layers being securely vulcanized together to form an insert of crescent shaped cross section.

1,474,388. DISPLAY DEVICE. LOUIS A. STEGMANN, Newark, N. J., assignor to Cinema Advertising Corporation, Newark, N. J. Filed Oct. 11, 1921. Serial No. 507,106. 5 Claims. (Cl. 88—24.)



1. A portable display device comprising a cabinet, a folding hood adapted for attachment to the outside of the cabinet, a translucent screen having means for attachment in the hood when the hood is extended, means on the cabinet for holding the hood when folded, and means on the cabinet for securing the screen when detached from the hood.

1,474,389. WALL STRUCTURE. ALEXANDER B. TROWBRIDGE, Flushing, N. Y., and OTTO W. TEN EYCK, Glen Ridge, N. J. Filed Dec. 11, 1920. Serial No. 429,839. 3 Claims. (Cl. 109—1.)



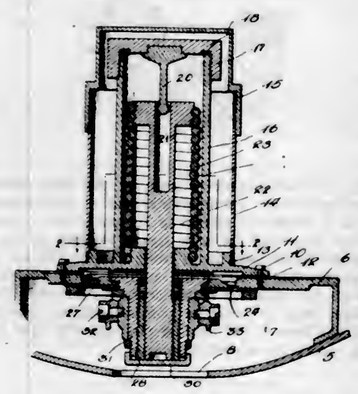
1. A wall structure having in combination a plurality of concrete layers with layers of tough metal slabs therebetween, and a plurality of anchors extending from each slab into the concrete for different distances, said anchors being embedded in the concrete and having lateral extensions in the concrete layers, the metal slabs having a plurality of rows of steel rods running in one direction therein and a plurality of rows of steel rods running in another direction therein, the concrete layers having pieces of hard steel and explosive charges scattered therein, and said concrete layers having different metal reinforcing members embedded therein including metal links, angle irons and bars, and also corrugated metal sheets running parallel to the wall, some of which are connected together by metal connecting means.

1,474,390. VAULT AND SAFE CONSTRUCTION. ALEXANDER B. TROWBRIDGE, Flushing, N. Y., and OTTO W. TEN EYCK, Glen Ridge, N. J. Filed Jan. 9, 1922. Serial No. 527,848. 2 Claims. (Cl. 109—1.)



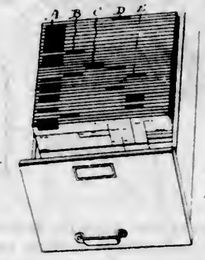
1. A vault or safe construction, comprising vertical and horizontal walls comprising difficultly fusible material having open work metal sheets embedded therein, said sheets being substantially horizontal in the vertical walls and substantially vertical in the horizontal walls, said sheets gradually changing from the horizontal position to the vertical position at a junction between a horizontal wall and a vertical wall, as the vertical wall approaches the horizontal wall.

1,474,391. TORPEDO. FRANK E. P. UBERROTH, Newport, R. I., assignor to the Government of the United States. Filed Feb. 13, 1922. Serial No. 536,396. 2 Claims. (Cl. 114—25.)



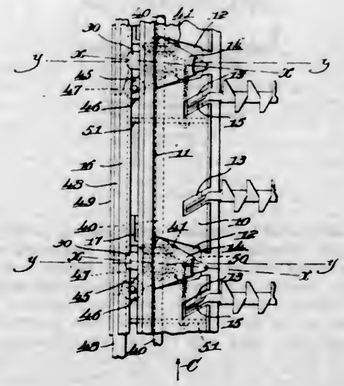
1. In a torpedo, in combination, a member forming a chamber open to hydrostatic pressure, a diaphragm and piston therein, a spindle associated with the piston, a tension spring acting on said spindle, means for adjusting the spindle relative to the piston, a double wall air tight casing enclosing said spindle and spring and means within the hydrostatic chamber adapted to be removed for setting the mechanism.

1,474,392. PURGING DEVICE. PETER VAN VLISSINGEN, Chicago, Ill. Filed Apr. 24, 1922. Serial No. 556,252. 7 Claims. (Cl. 129—16.5.)



4. A purging system for file drawers, a wrapper adapted to be folded over the top edge of a file, a conspicuous mark applied to the wrapper across the line of the fold, in combination with a wrapper bearing a conspicuously different mark.

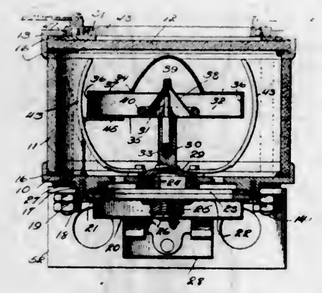
1,474,393. CONVEYER. PATRICK J. WALSH, Worcester, Mass. Filed Oct. 19, 1921. Serial No. 508,667. 7 Claims. (Cl. 198—203.)



1. In a device of the class described, a series of rotatable feed rolls; bearings for said rolls each of which is rotatable about an axis; a main drive shaft; and a gear drive intermediate each feed roll and said main shaft adapted to drive said rolls irrespective of the angular position thereof.

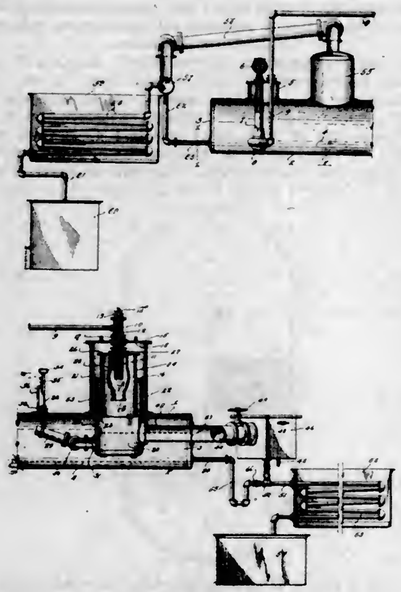
1,474,394. MAGNETIC COMPASS. JAMES P. WARBURG, Washington, D. C., assignor to Government of the United States. Filed Apr. 24, 1919. Serial No. 292,351. 2 Claims. (Cl. 33—223.)

1. A magnetic compass having a compass bowl, a float within the bowl and having graduations on its upper surface indicative of the points of the compass, an azimuth circle on the top of the bowl, and a rotatable



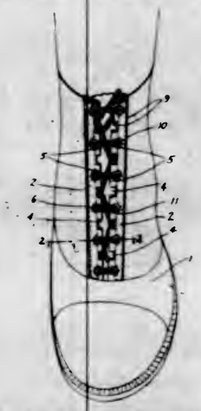
ring carried by said bowl and having oppositely disposed sights cooperating with said azimuth circle.

1,474,395. PETROLEUM-REFINING APPARATUS. CORNELIUS B. WATSON, Columbus, Ohio. Filed Apr. 2, 1920. Serial No. 370,665. 6 Claims. (Cl. 196—25.)



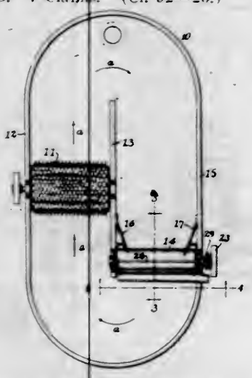
5. In a petroleum still, a horizontally extending elongated drum having a flat bottom, arranged to receive a body of substantially molten metal, a dome arising from said drum, a nozzle structure positioned in said dome, means for circulating said metal from the bottom of said drum through said nozzle structure, means for passing petroleum centrally through said nozzle structure and into physical engagement with said metal as the latter issues from the discharge end of said nozzle structure, a supplemental reservoir arranged within said drum and located beneath said nozzle structure for the reception of said metal, and means for maintaining the level of the metal within said reservoir at a predetermined height.

1,474,396. SHOE LACING. WILLIAM ZAPIS, Jersey City, N. J. Filed June 14, 1922, Serial No. 568,105. Renewed Sept. 6, 1923. 3 Claims. (Cl. 24—140.)



1. In a shoe lacing arrangement, the combination comprising a strip of leather folded and secured to each lacing edge of a shoe, the folded portion being cut at intervals to form loops; reinforcing and shape-retaining members disposed in said loops; and eyelets secured in said loop members closely adjacent said reinforcing members.

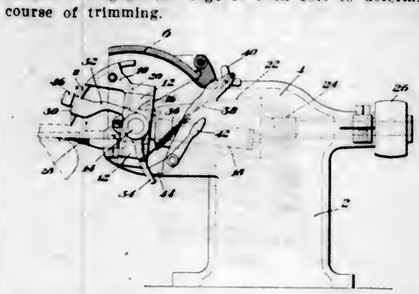
1,474,397. SKIMMING APPARATUS. ARTHUR F. ALLEN and ALFRED F. MCCOY, New York, N. Y., and ROBERT O. STERNBERGER, Newark, N. J., assignors to Tidewater Paper Mills Company, Brooklyn, N. Y., a Corporation of New York. Original application filed Dec. 22, 1920, Serial No. 432,389, Patent No. 1,406,322. Divided and this application filed May 20, 1921. Serial No. 471,223. 7 Claims. (Cl. 92—23.)



1. In a rotary skimming apparatus, in combination, a channel for a flowing liquid, a rotary skimming roller extending transversely of the channel to remove material from the liquid, means adjacent to the roller for deflecting from the sides of the channel toward the center of the roller on-coming material carried by the liquid, and means for removing from the roller the material taken thereby from the liquid.

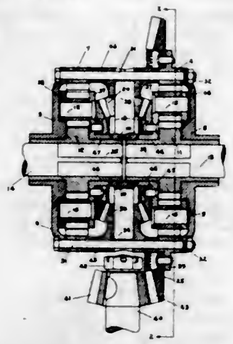
1,474,398. SHOE-TRIMMING MACHINE. ARTHUR BATES, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 26, 1919. Serial No. 279,388. 21 Claims. (Cl. 12—85.)

1. A shoe-trimming machine comprising a cutting bed, a knife arranged to cut against said bed to trim surplus material from a marginal extension projecting beyond the edge of a sole lying on said extension, and a gage arranged to engage the edge of such sole to determine a course of trimming.



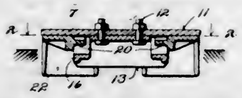
21. A machine of the character described comprising cooperative members arranged to clamp the marginal portion of the outsole of a shoe, a knife arranged to cut against one of said clamping members to trim off any portion of a shoe element projecting laterally beyond the periphery of said outsole, and a gage arranged to guide the outsole so as to keep it clear of said knife.

1,474,399. DIFFERENTIAL MECHANISM FOR AUTOMOBILE REAR AXLES. JESSE J. BISHOP, Elyria, Ohio. Filed Feb. 18, 1922. Serial No. 537,420. 5 Claims. (Cl. 74—99.)



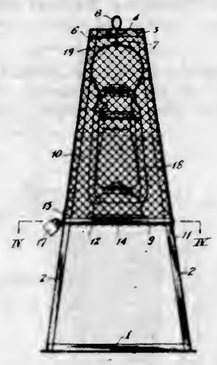
1. A differential mechanism comprising in combination with a pair of aligned driving shafts, supporting means rotatable about the axes of the said shafts, a pair of internally toothed orbit gears carried by the said supporting means, a pair of sun gears, each secured to an end of one of the said shafts, planet gears interposed between each orbit gear and the corresponding sun gear, a pair of planet gear supporting cages, each rotatable about the axis of each shaft, and compensating gearing interposed between the said planet gear cages.

1,474,400. TRACTOR LAG. HAROLD G. BOWKER, Clintonville, Wis., assignor to Topp-Stewart Tractor Co., Clintonville, Wis. Filed Apr. 15, 1921. Serial No. 461,523. 6 Claims. (Cl. 305—13.)



1. In a device of the character described, a bearing member having means for securely attaching the same to the outer periphery of a wheel, flanges projecting laterally therefrom, and a lag member having lugs loosely engaging said flanges to retain said lag member in supporting relation to the bearing member.

1,474,401. LANTERN CAGE. MATTHEW F. BAAMLEY, Cleveland, Ohio. Filed Mar. 25, 1922. Serial No. 546,620. 4 Claims. (Cl. 240—52.)



4. The combination of a support flared in a downward direction, a reticulated cage carried in an elevated position by said support, a door dividing said support and cage, a hook loosely carried by the top of said cage, and a lantern suspended from said hook and a lock for said door.

1,474,402. CORD-HOLDING DEVICE. WILLIAM M. CAPLE, Hamilton, Mont. Filed Oct. 12, 1922. Serial No. 594,221. 3 Claims. (Cl. 223—54.)



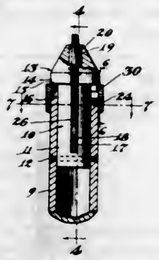
1. A cord holding device comprising a body portion provided near its center with a longitudinal slot and near its ends with transverse slots, a coil within the longitudinal slot and having one side thereof projecting laterally beyond the contacting surface of the body portion for a substantial distance, said coil extending longitudinally of the body portion and adapted to have a skein passed therethrough, arms formed upon the ends of the coil and extending longitudinally of the body portion in spaced relation and provided at their ends with transverse loops arranged at substantially a right angle to said coil, said transverse loops being slidably mounted within said transverse slots, and means for retaining the loops within said transverse slots.

1,474,403. METHOD OF MAKING THERMOMETER BULBS. LEE F. CHANEY, Springfield, Ohio, assignor to The Chaney Manufacturing Company, Springfield, Ohio, a Corporation of Ohio. Filed Nov. 12, 1920. Serial No. 423,658. 9 Claims. (Cl. 49—79.)



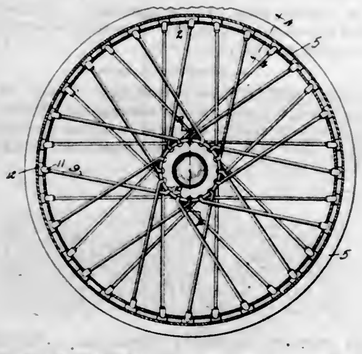
1. The herein described process of producing a thermometer tube, comprising providing a casing tube, and a capillary tube, forming a bulb upon one end of the capillary tube inserting the bulb of the capillary tube within the casing tube, heating the portion of the casing tube enclosing the bulb and utilizing the bulb as a form or core to which the casing tube is made to conform and adhere to afford a reinforced bulb common to both tubes.

1,474,404. TOOL HOLDER. IRA A. CHURCH, Long Beach, Calif., assignor, by mesne assignments, to Universal Metal Products Company, Long Beach, Calif., a Corporation of California. Filed Dec. 13, 1921. Serial No. 522,004. 3 Claims. (Cl. 279—90.)



1. In a tool, a tool shank having a flat portion formed with opposed notches on its edges spaced from the end of the shank and formed with projections between the notches and the end of the shank, a socket member formed with a slot to receive the flat portion of the tool shank, and formed with an external shoulder, a handle rigidly carrying said socket member, one end of said handle spaced from the shoulder on the socket member forming a shoulder on which the projections on the shank are adapted to seat, a sleeve turnable relatively to said socket member abutting against the shoulder on the latter and having an inturned flange spaced from the shoulder formed by the handle, said flange adapted to engage the notches on the tool shank when the projections on the latter are seated on the shoulder formed by the end of the handle, and means for holding the sleeve against longitudinal movement relatively to the socket member adapted to limit the turning movement of the sleeve to a partial revolution; said flange on the sleeve being formed with opposed slots arranged to align with the slot in the socket member when the sleeve is turned the limit of its movement in one direction to permit insertion of the tool in the slot of the socket member.

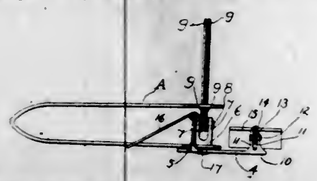
1,474,405. WIRE-SPOKED WHEEL. LYMAN M. COOPER, Detroit, Mich., assignor of one-half to Charles E. Wisner, Detroit, Mich. Filed Mar. 26, 1920. Serial No. 368,819. 10 Claims. (Cl. 301—60.)



8. A wire spoked wheel comprising in combination with an axle having a spindle, of a two-part hub member mounted thereon, said members each being flanged for

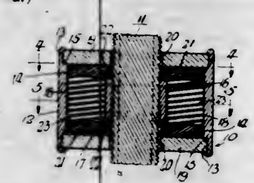
the attachment of the spokes thereto, means for adjusting the parts toward or from each other, and means for locking the parts in adjusted position, a rim member having a circumferential groove and apertures in the bottom of the groove for spokes, a series of spokes for each hub member, each spoke being formed of a single piece headed at each end and adapted for insertion through an aperture in the rim to detachable engagement with the respective hub member, the opposite end of the spoke having a cylindrical head portion lying in the groove, the construction permitting the said head to rock therein on adjustment of the hub members and a second detachable rim member mounted on the first rim and covering the groove and spoke ends.

1,474,406. ANIMAL TRAP. WILLIAM COOPER, Apalachin, N. Y. Filed Jan. 3, 1921. Serial No. 434,746. 2 Claims. (Cl. 43—88.)



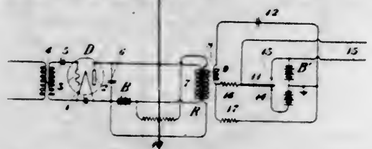
1. In an animal trap the combination of a base, a post pivotally secured to the base and provided with two parallel arms, jaw members having their extremities pivotally mounted between the arms of said post, a spring member provided with an opening at its end adapted to move over said post and arms and press upward on the inner ends of said jaws, an integral arm secured to the base, a trigger member pivotally secured to said integral arm, and a trip plate pivotally mounted on the base at the front thereof and provided with a notch adapted to receive the end of the trigger bar.

1,474,407. FRICTION LOCK NUT. JAMES H. DEAN, Ludington, Mich., assignor to Northwestern Expanded Metal Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 13, 1922. Serial No. 600,552. 15 Claims. (Cl. 151—2.)



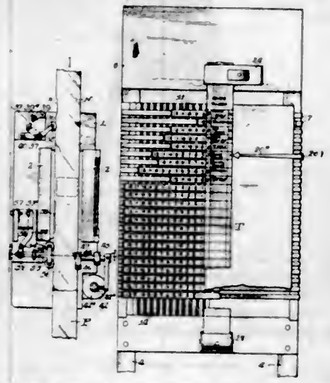
1. A friction lock nut, comprising a threaded body member and a friction feather member connected thereto and coacting therewith.

1,474,408. DETECTING CIRCUIT. RALPH WARNER DEARDORFF, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 16, 1920. Serial No. 424,503. 6 Claims. (Cl. 178—88.)



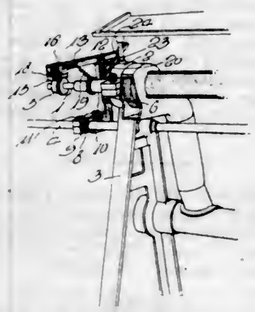
1. A receiving apparatus comprising a detector for translating carrier frequencies above which signals are superposed into signaling currents, a polarized relay controlled thereby, said relay having a plurality of windings, one of said windings being in circuit with said detector in order that the armature of said relay may be shifted in response to detected signal pulses, and means to produce a condenser discharge through another of said windings to quicken the action of said armature.

1,474,409. MOTION-PICTURE FILM-PRINTING APPARATUS. OSCAR B. DEPUE, Chicago, Ill. Filed May 14, 1921. Serial No. 469,418. 6 Claims. (Cl. 95—75.)



1. In a printing apparatus for motion picture films, the combination of a lamp and lamp circuit, means for varying the light intensity of said lamp comprising a series of selective resistances and contact bars connected therewith, a series of conductors having slidable contact members adapted to contact with said selective contact bars and provided with indications of light intensity, a tabulating strip bearing light intensity and film subject indications, a film controlled switch member in said lamp circuit provided with an indicator registering with the indications on said strip.

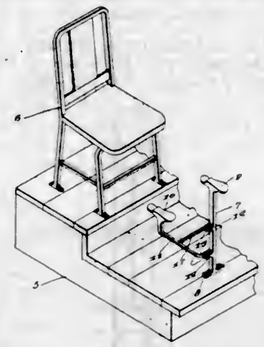
1,474,410. HEATER FOR ROTARY BURNISHING IRONS. JOSEPH DI DARIO, Attleboro, Mass. Filed Nov. 2, 1922. Serial No. 598,635. 4 Claims. (Cl. 12—77.)



1. A heater for a rotary sole-burnisher comprising a post, means for securing it to a frame of a sole-burnishing machine, a vertically swinging arm pivoted to said post and adapted to contact with the burnishing iron, a spring acting on said arm for holding the same in tight contact with the iron, and a latch associated with said arm and post for holding the arm in inoperative position when desired.

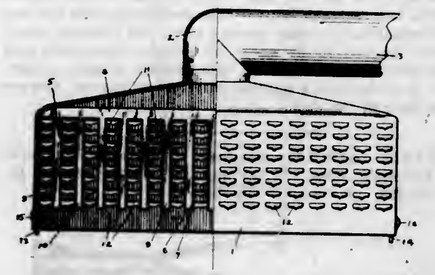
4. A heater for a rotary burnishing iron comprising a shoe for contact with the iron, a carrying member for said shoe, and a pair of clamping plates secured against opposite sides of said shoe and arm for holding the one on the other.

1,474,411. FOOT REST FOR SHOE-BLACKING STANDS. SIMON J. DODD, Hoopeston, Ill. Filed Apr. 8, 1922. Serial No. 550,831. 4 Claims. (Cl. 15—265.)



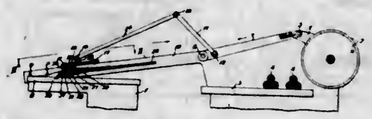
1. A foot-rest comprising a pair of laterally spaced foot plates, a rigidly supported standard carrying one of the foot plates, and a laterally extending bracket arm carrying the other foot plate, and pivoted to the standard.

1,474,412. AIR FILTER. LEWIS L. DOLLINGER, Rochester, N. Y. Filed July 24, 1922. Serial No. 577,040. 6 Claims. (Cl. 183—71.)



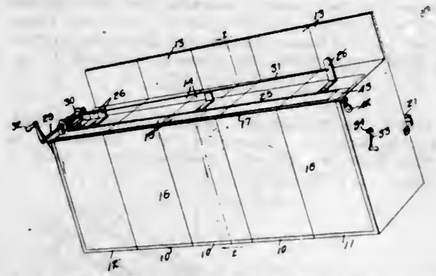
1. In an air filter, the combination of a casing having its bottom open and its top closed, a filtering screen mounted within said casing, said filtering screen being arranged in folds or pockets, said folds or pockets being alternately open toward the top and bottom of said casing, a discharge duct leading from the closed top of said casing the sides of said casing having openings into the ends of the pockets that are open at the bottom.

1,474,413. SHEET-DELIVERY DEVICE. JAMES E. DOYLE, Cleveland, Ohio. Original application filed Aug. 20, 1920, Serial No. 404,931. Divided and this application filed Sept. 26, 1921. Serial No. 503,218. 16 Claims. (Cl. 271—84.)



1. A sheet delivery device comprising a conveyor carrying an elongated perforate support extending across a major portion of the delivery end thereof.

1,474,414. VOTING MACHINE. JAMES F. ELLIOTT, Searles, Ala., assignor of forty-five per cent to M. E. Morris, Birmingham, Ala. Filed Nov. 22, 1921. Serial No. 516,986. 12 Claims. (Cl. 235—54.)



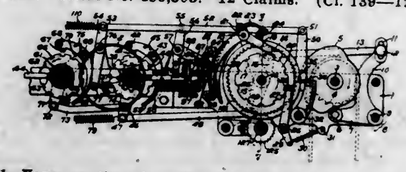
2. A voting machine comprising a plurality of boxes adapted to be secured together side by side, each of said boxes adapted to carry the name of a candidate, a series of tallying machines in said boxes, a vertically movable plate normally held at the top of said boxes and one or more punch keys on said plate adapted to operate one or more selected tallying machines, substantially as set forth.

1,474,415. APRON. WALTER RAY GLASSBRENNER, Carlinville, Ill. Filed Apr. 25, 1923. Serial No. 634,592. 2 Claims. (Cl. 2—54.)



1. An apron of such length and construction as to terminate well below the neck of the wearer and to be supported independently of the neck, the apron being of such width from end to end that it will practically enclose the body of the wearer circumferentially from one end of the apron to the other, the apron being divided at the back to form wings, and a prehensile spring extended transversely of the apron intermediate the ends thereof, the spring being provided at its rear ends with upstanding arms disposed about at right angles to the plane formed by the spring, the arms extending along the edges of the wings at the upper end thereof.

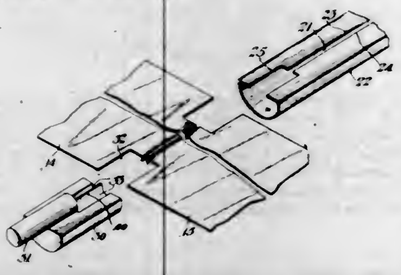
1,474,416. COMBINED COUNTING MECHANISM AND WEFT-CONTROLLING MECHANISM GOVERNED THEREBY. EDGAR F. HATHAWAY, Dorchester, Mass., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y., a Corporation of New York. Filed Mar. 25, 1921. Serial No. 455,503. 12 Claims. (Cl. 139—127.)



1. Yarn or thread positioning mechanism for textile machinery comprising in combination, a series of yarn positioning elements or fingers, each adapted selectively

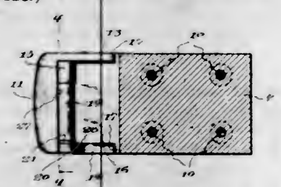
to present its yarn to a yarn manipulating device, means to support said elements or fingers for movement into and out of functioning relation, a plurality of counter members of higher and lower order, a pattern member controlled by said counter members, and operative connections including a subsidiary pattern mechanism whereby said pattern member governs and effects the functioning of said yarn positioning elements or fingers.

1,474,417. AUTOMOBILE HOOD CONSTRUCTION. ROY W. KUMLER, Los Angeles, Calif. Filed July 21, 1920. Serial No. 397,905. Renewed Apr. 5, 1923. 6 Claims. (Cl. 180—69.)



1. An automobile hood construction comprising a restraining member having parallel lips separated by a slot, means for pivoting each end of said restraining member in the frame of the automobile, two sheet steel members having their edges passing through said slot and hooked around said lips, and means for separating the edges of said sheet steel members.

1,474,418. HINGE. EMIL J. LARSON, Hammond, Ind. Filed Mar. 10, 1923. Serial No. 624,169. 5 Claims. (Cl. 16—128.)



1. A hinge construction comprising two leaf members, one having a cored portion with an apertured lug therein, and the other having an enlarged head insertible through said cored portion and projecting within the said apertured lug.

1,474,419. AUTOMOBILE LIFTER. LOUISE JORDAN LIDDELL, New Orleans, La. Filed July 7, 1921. Serial No. 483,104. 8 Claims. (Cl. 254—89.)



6. An automobile lifter including a lever bar, a fulcrum foot carried at one end of the lever bar, a jack rest carried at the opposed end of the lever bar, a rest block carried intermediate the ends of the lever bar and positioned to engage the axle of the automobile, said rest block overhanging the lever bar to provide a recess for the reception of the usual axle truss rod.

1,474,420. SHOCK-ABSORBING WHEEL. FLAVIUS E. LOUDY, Philadelphia, Pa. Filed Apr. 8, 1921. Serial No. 459,645. 2 Claims. (Cl. 152—28.)



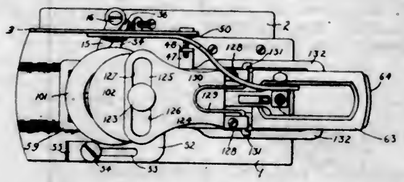
1. In combination, in a resilient wheel system, a central disk mounted on the hub of the wheel at right angles to the axis thereof, equally spaced brackets mounted circumferentially on said disk, a rim section comprising a rim and two spaced annular disks disposed in planes parallel to said central disk, circumferentially and one to each side thereof, and each provided with equally spaced brackets to correspond with the brackets of said central disk, pins mounted in said central disk brackets and said rim section disk brackets, and endless elastic bands between each central disk bracket pin and the two corresponding rim disk bracket pins, and disposed parallel to the axis of the wheel for operably connecting said rim section to said central disk portion in such a manner as to provide a relative universal movement between the rim and the disk.

1,474,421. GIRDLE. SAHATIEL G. MANDALIAN, North Attleboro, Mass. Filed Jan. 27, 1922. Serial No. 532,223. 3 Claims. (Cl. 241—8.)



1. In a girdle, a continuously formed flexible mesh fabric sheath, a pliable core in the sheath, sleeves movably mounted on adjacent portions of the sheath detachably connected with each other the girdle being practically non-extensible as to length.

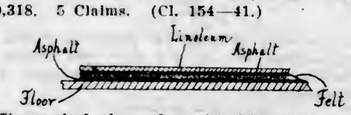
1,474,422. ATTACHMENT FOR SEWING MACHINES. ALBERTUS B. MATTINGLY, New York, N. Y. Substitute for application Serial No. 194,714, filed Oct. 4, 1917. This application filed Jan. 21, 1920. Serial No. 353,108. 18 Claims. (Cl. 112—77.)



1. In an attachment for making eyelet button-holes, the combination of stitching mechanism including a needle, means for cutting a button-hole in advance of the stitching, a work clamp, means for vibrating the clamp

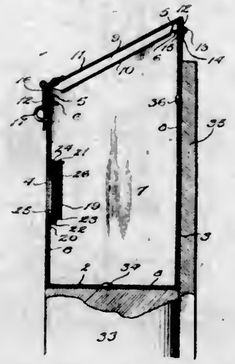
along each side of the work as incised, means for shifting the work clamp at one end of the incision to form the eyelet, and means capable of travel in an elliptical path connected with the work clamp for moving the same back and forth with respect to the stitching mechanism in line with the needle whereby the stitches are substantially evenly distributed throughout its extent including said eyelet.

1,474,423. METHOD OF APPLYING FELT INSULATION. JOSEPH S. MAYNARD, Cincinnati, Ohio, assignor to The Richardson Company, Lockland, Ohio, a Corporation of Ohio. Filed Dec. 27, 1922. Serial No. 609,318. 5 Claims. (Cl. 154—41.)



1. The method of proofing with felt which consists in employing a felt upon which a regular layer of asphalt has been preformed without penetrating the felt, dissolving the surface of the asphalt layer, and using the dissolved surface as an adherent for cementing the felt in place.

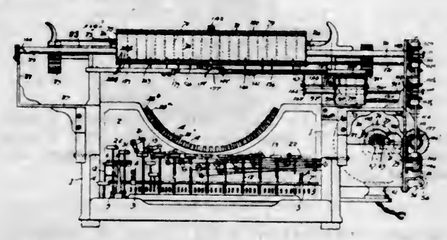
1,474,424. MAIL BOX. AUGUSTUS G. MAXEY, Owensboro, Ky. Filed Oct. 7, 1922. Serial No. 593,003. 1 Claim. (Cl. 40—16.)



A box having its front wall provided with a slot, a card holder consisting of a metal plate provided at its lower edge and at its end edges with angularly disposed webs having marginal flanges secured to the inner face of said front wall below and at the ends of said slot, the body portion of the plate being spaced from the wall of the box by the webs and the bottom web being constructed with stepped shoulders, a transparent plate resting upon the lower of the stepped shoulders and covering the slot in the front wall of the box and held against the inner surface of the box at the top, bottom and ends of the slot by the vertical portion of the plate between the stepped shoulders, and a card resting upon the upper stepped shoulder and bearing against said transparent plate, the space between the upper edge of the plate and the front wall of the box being entirely free and unobstructed.

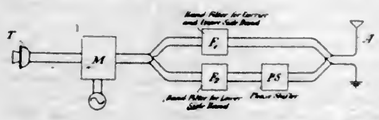
1,474,425. BILLING AND COMPUTING ATTACHMENT TO TYPEWRITERS. WALTER WRIGHT, San Francisco, Calif., assignor, by mesne assignments, to Underwood Computing Machine Company, a Corporation of New York. Filed Apr. 20, 1908. Serial No. 428,020. 61 Claims. (Cl. 235—59.)

2. In a computing attachment for typewriters, the combination of a paper carriage, computing mechanism, means for actuating said computing mechanism, means for connecting the same with the paper carriage, means for automatically releasing the same as the carriage advances, and means for varying the point of attachment of said connection, comprising a shifter, a bar, and means for locking the shifter to said bar, substantially as described.



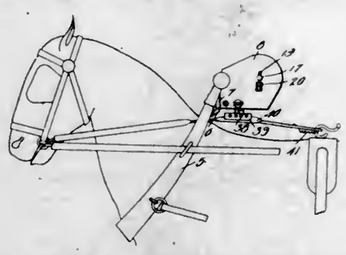
56. In a computing machine, the combination with a key-controlled drive shaft, of a series of computing heads, each having a master-wheel shaft provided with a bevel gear, said drive shaft having a pair of bevel gears loose thereon, to mesh with each of said master-wheel bevel gears, and means to clutch said master-wheel shaft to any of the bevel gears thereon.

1,474,426. SECRET-COMMUNICATION SYSTEM. HERMAN A. AFFEL, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 19, 1922. Serial No. 575,991. 6 Claims. (Cl. 179—1.)



1. In a transmission system in which the frequency components to be transmitted comprise an upper and lower side band resulting from the modulation of a voice or signal current and a carrier current, the method of maintaining secrecy in the transmission of messages in such a system which consists in altering the normal phase relation existing between said components.

1,474,427. INSECT-CATCHING DEVICE. BENJAMIN F. ALINK, Spring Valley, Minn. Filed Mar. 28, 1923. Serial No. 628,298. 10 Claims. (Cl. 43—111.)



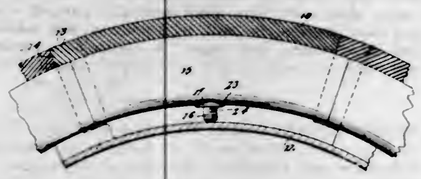
1. In a device of the character described, a body portion, shafts supported within the body portion, a core mounted on the shafts and adapted to contain bait, a drum rotatable around the core, means for rotating the drum, and means carried by the drum and adapted to engage the core to crush insects on the core, and means carried by the core for removing the insects from the drum.

1,474,428. AUTOMOBILE JACK FOOT. WILLIAM J. BAIN, Barnsdall, Okla. Filed Mar. 2, 1923. Serial No. 622,359. 2 Claims. (Cl. 254—1.)



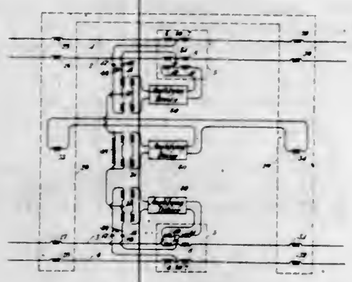
2. A device of the class described comprising a base having means for detachable connection with a jack foot, said means comprising inturned side flanges, the edges of which converge toward one end.

1,474,429. PNEUMATIC TIRE. LOUIS W. BALDWIN, Jersey City, N. J. Filed Oct. 11, 1920. Serial No. 416,032. 1 Claim. (Cl. 152—23.)



As a new article of manufacture, an automobile tire comprising a casing and a pneumatic inner tube, the casing and inner tube including a plurality of independent sections, each section of the casing consisting of an open ended body having a V-shaped tongue formed on one end thereof and a V-shaped notch formed in the opposite end thereof, each section of the inner tube including an annular inflatable body and a filling air valve, the air valves of the sections of the inner tube being disposed within the plane of the casing.

1,474,430. TELEPHONE REPEATER. OTTO B. BLACKWELL, Garden City, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 29, 1919. Serial No. 300,556. 16 Claims. (Cl. 179—170.)



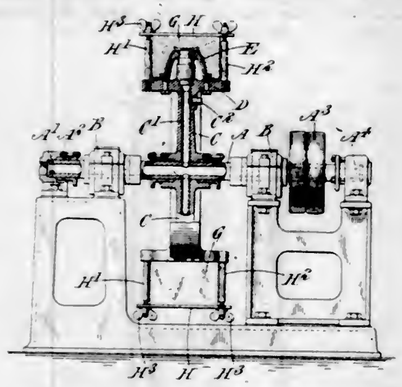
1. In combination, a plurality of electrical conductors, conductively continuous side circuits each formed of a portion of said conductors and adapted for the transmission of direct current; a phantom circuit formed of said conductors, a repeater intermediate the ends of said conductors, said repeater having input and output sides and means for operatively associating both sides of said repeater with said conductors in their phantom circuit relation.

1,474,431. RENEWABLE INSULATION FOR RAIL JOINTS. CLARKSON A. DISBROW, New Rochelle, N. Y., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed Sept. 12, 1922. Serial No. 587,789. 4 Claims. (Cl. 238—159.)



1. An insulating unit for rail joints consisting of a bar head section, and an end post head section having a locking engagement with the outer edge of said bar head section.

1,474,432. APPARATUS FOR CASTING OR MOLDING POTTERY AND LIKE ARTICLES. JOSEPH FORSYTH GIMSON, Newcastle, England, assignor of one-half to Close Brothers & Company Limited, London, England, a Company of Great Britain. Filed Nov. 25, 1922. Serial No. 603,210. 22 Claims. (Cl. 25—29.)

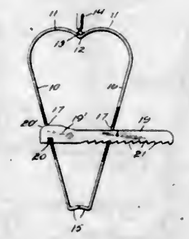


1. Apparatus for casting or molding pottery and like articles including in combination a hollow rotatable shaft, a hollow arm radiating therefrom and having its interior in communication with the interior of the shaft, an absorbent mould carried by the hollow arm, means for supplying the material to be treated to the interior of the shaft and thence through the hollow arm to the mould, and means for rotating the shaft, the moisture being removed from the material and absorbed into the mould under the action of the centrifugal force set up by the rotation of the apparatus as set forth.

1,474,433. METHOD OF OBTAINING BORAX. WALTER A. KUHNERT, San Francisco, Calif. Filed Dec. 21, 1922. Serial No. 608,381. 3 Claims. (Cl. 23—22.)

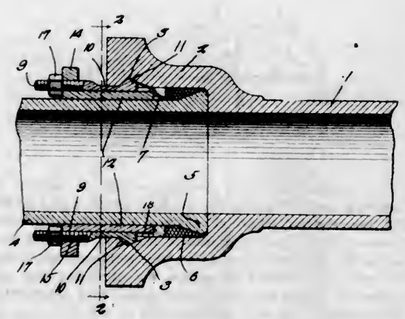
1. The process of obtaining borax from certain solutions containing borax, sodium carbonate, sodium sulphate, sodium chloride, potassium chloride, sodium aluminate, sodium silicate and other salts, the sodium carbonate content of the solution being greater than that of the borax, which process consists in introducing into said solution sufficient soluble bicarbonate of sodium to render a portion of the borax insoluble within the solution and removing the insoluble borax by filtration or other means from the mother liquor so that said mother liquor will retain the other salts and will contain more sodium carbonate than borax.

1,474,434. BATTERY CONNECTER. JOSEPH E. MCKEE, Connellsville, Pa., assignor of one-third to N. E. Woolman and one-third to Joseph Oppman, both of Connellsville, Pa. Filed Mar. 30, 1921. Serial No. 457,090. 3 Claims. (Cl. 173—273.)



3. A connecter for the purpose set forth comprising a yoke shaped member of resilient material adapted to have a conductor permanently secured therewith, said member having free ends of the legs thereof provided with inwardly extending jaws adapted to be brought into abutting engagement, each of the legs of said member formed with a slot, and a latch bar extending through said slots and notched to removably engage one of the walls of the slot and further provided with a series of teeth capable of engaging a wall of the other of the slots for securing said jaws in abutting engagement, the notched end of said bar being of greater width than the toothed end thereof.

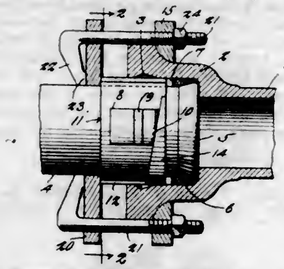
1,474,435. PIPE COUPLING. ARTHUR T. MCWANE, Birmingham, Ala. Filed May 23, 1922. Serial No. 563,032. 3 Claims. (Cl. 285—117.)



1. In a device of the class described, a first pipe having a bell provided with an internal circumferential seat; a second pipe received in the bell; a gland in the bell about the second pipe; a compression member interposed between the second pipe and the bell and engaging the gland; and an anchor which embodies means for advancing the compression member, the anchor comprising an outstanding part engaged in the seat of the bell.

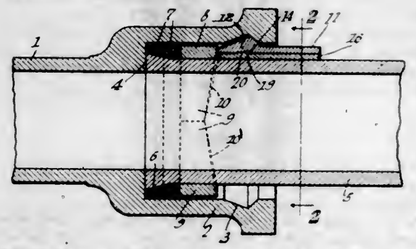
1,474,436. PIPE JOINT. ARTHUR T. MCWANE, Birmingham, Ala. Filed May 23, 1922. Serial No. 563,033. 2 Claims. (Cl. 285—117.)

1. In a device of the class described, a first pipe having a bell provided with an internal circumferential seat; a second pipe received in the bell; a gland in the bell about the second pipe; a compression member interposed between the second pipe and the bell and engaging the gland, the compression member carrying a cam which is



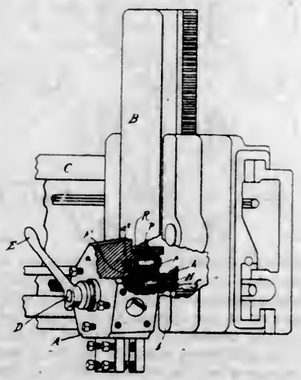
inclined circumferentially thereof; and an anchor cooperating with the cam, the anchor comprising a part engaged in the seat of the bell.

1,474,437. PIPE JOINT. ARTHUR T. MCWANE, Birmingham, Ala. Filed Jan. 15, 1923. Serial No. 612,749. 3 Claims. (Cl. 285—117.)



1. In a device of the class described, a first pipe having a bell provided with an internal circumferential seat; a second pipe received in the bell; a compression member about the second pipe and located in the bell, the compression member having a cam edge; and anchors mounted between the bell and the second pipe for movement circumferentially thereof and cooperating with the cam edge of the compression member, the anchors having shoulders received slidably in the seat of the bell.

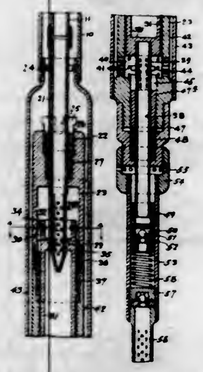
1,474,438. TURRET HEAD FOR MACHINE TOOLS. EDWARD A. MULLER, Cincinnati, Ohio, assignor to The King Machine Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Jan. 6, 1922. Serial No. 527,317. 8 Claims. (Cl. 29—49.)



1. The combination of a slide adapted to support a turret-head, a stud fixed to said slide, a turret-head adapted to be rotated on said stud when said head is in released

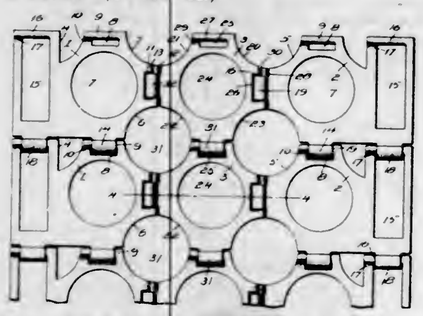
position, a handle threaded to the stud for clamping the head to the slide, an index pin seated in one of said members to be so clamped, and protruding from the clamping face thereof, a feeler-pin seated in and protruded from the same clamping face as the index pin by a spring, said spring, and a plurality of seats in the clamping face of the other member adapted to receive either said index-pin or said feeler-pin, said pins and seats so arranged as to either indicate or fix the position of the head in relation to the slide at each working position of the head.

1,474,439. PUMP. VICTOR H. PALM, Butler, Pa. Filed Apr. 15, 1922. Serial No. 552,934. 12 Claims. (Cl. 103—46.)



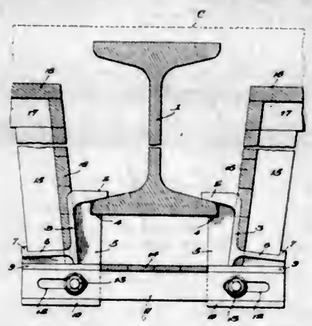
1. In a pump, the combination of an inner and outer-barrel communicating with each other, a hollow plunger in the inner-barrel, a tube connected up to the interior of said plunger, a tube connected up to the outer-barrel, a pump for delivering fluid to said tubes alternately, means for exhausting one of said tubes when the fluid is being introduced to the other, and a valved pumping-piston and a pipe connected to said pumping-piston and to said plunger, said last named pipe communicating with said outer barrel.

1,474,440. SEPARATOR ELEMENT. BERT POWERS, Gaston, Ind. Filed Apr. 17, 1923. Serial No. 632,723. 8 Claims. (Cl. 130—32.)



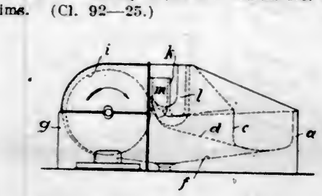
1. A separator element for the purpose set forth comprising a plurality of opposed hinged sets of flat separator members, the members of each set provided with openings for the passage of the objects to be separated and the members of the opposed sets provided with associated means to form additional openings for the passage of the objects to be separated, the outer members of each set each having its outer end provided with an opening for the reception of a sprocket of a driving element for the separator element.

1,474,441. CONCRETE FLOOR CONSTRUCTION. ORREN D. PURINGTON, Providence, R. I. Filed Feb. 9, 1922. Serial No. 535,170. 10 Claims. (Cl. 25—131.5.)



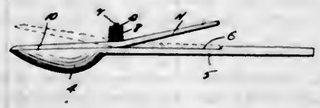
1. In concrete floor construction, in combination with I-beams, clamps having upper and lower jaws engaged with the bases of the beams and having depending parts formed with spaced horizontal flanges, a connecting bar for the clamps engaged at its ends with the flanges, means to adjustably secure the bar ends to the clamps, a false flooring seated on top of the bar, said clamps having lateral arms flanged at their outer ends, timbers supported on the arms and engaged with the flanges, boards engaged with the inner sides of the timbers, cross timbers seated on the first named timbers, and flooring seated on the cross timbers.

1,474,442. BEATING ENGINE. WILHELM RABUS, Karlstad, Sweden, assignor to Robert J. Marx, London, England. Filed July 17, 1914. Serial No. 851,576. 2 Claims. (Cl. 92—25.)



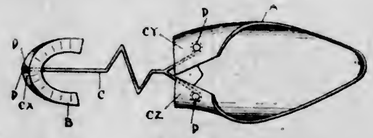
1. In combination in a beating engine, a beater roll for beating and elevating the stuff, a single substantially spiral, continuous, channel having a uniform gradient for conveying, with a minimum of friction, the stuff from adjacent the top of the roll to a point adjacent the bottom of the roll, and deflecting means for diverting the stuff from the top of the roll into said channel and accelerating the flow thereof through said channel in order to pass the stuff through the channel eddylessly, whereby the stuff may be worked while in less fluid condition than heretofore.

1,474,443. SPOON. ROBERT B. RHYNE, Cape Girardeau, Mo. Filed June 24, 1921. Serial No. 480,115. 5 Claims. (Cl. 30—22.)



3. In a medicine spoon, the combination with a bowl portion and handle therefor; of a cover for the bowl having an angularly disposed handle, the angular juncture of the handle being engaged with the handle of the spoon to form a fulcrum for the cover of the bowl to move vertically of the bowl, and said cover handle being pivotally mounted on the spoon handle to move laterally of the medicine spoon.

1,474,444. SHOE FORM. WILLARD C. RICHARDSON, Saugus, Mass. Filed Apr. 7, 1922. Serial No. 550,355. 4 Claims. (Cl. 12—128.2.)

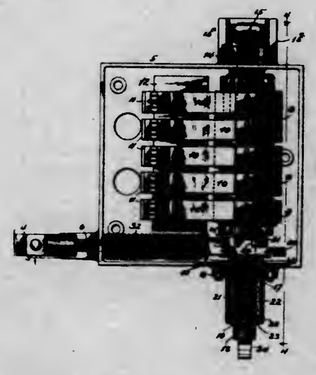


1. In a shoe form, a counter portion, a ball portion, and an expanding and contracting unit connecting the said portions, said unit comprising a spring having alternate bend adapted to lie flat against the shank of the shoe permitting the stretching and contracting of the form to fit shoes of various sizes.

1,474,445. SALAD DRESSING. WILLIAM H. SCHOLL and BARNEY SCHOLL, Houston, Tex. Filed July 3, 1922. Serial No. 572,722. 2 Claims. (Cl. 99—11.)

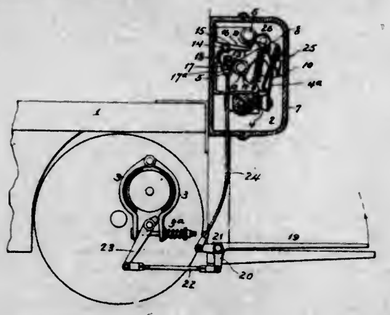
1. The process of preparing a salad dressing consisting of mixing together vinegar and brayed garlic and boiling and straining the same; then mixing pepper, powdered sugar, mustard and salt and adding sufficient of said first mentioned mixture to form a paste then slowly agitating said paste, meanwhile adding to it the yolks of eggs, then dripping into the mixture thus formed oil at the rate of approximately one-half pint a minute, meanwhile vigorously agitating the mixture and adding more of said vinegar, until it is reduced to an emulsion.

1,474,446. CONTROLLING MEANS. CHARLES S. SCHROEDER, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed May 27, 1921. Serial No. 473,082. 6 Claims. (Cl. 192—142.)



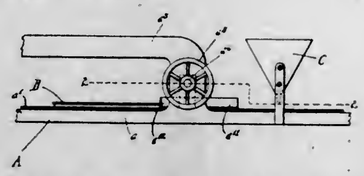
1. The combination of an electric motor, a brake therefor, an electric controller, mechanical means operable by a movable member of the controller for releasing the brake when the movable member of the controller is moved from neutral position, means for manually operating the movable member of the controller, means for releasing said movable member from its operating means, and means for returning said movable member to neutral position when thus released.

1,474,447. ELECTRICAL CONTROLLING MEANS. CHARLES S. SCHROEDER, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Aug. 18, 1921. Serial No. 493,384. 5 Claims. (Cl. 192—2.)



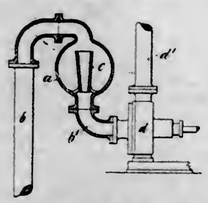
1. The combination with an electrical controller, a cut-out switch, means tending to close said switch, and switch operating means, of a latch operable to hold the switch open after it shall have been previously opened by said operating means, and means operable by movable member of the controller when the same is moved back to or approximately to "off" position, to trip the latch and permit the switch to close.

1,474,448. PAN SHIFTER. JOSEPH F. SCOTT, Denver, Colo., assignor to The J. H. Day Company, a Corporation of Ohio. Filed Nov. 26, 1921. Serial No. 518,081. 5 Claims. (Cl. 198—29.)



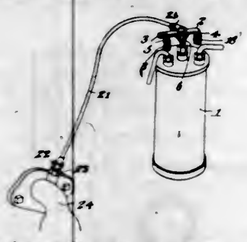
1. In a pan shift device the combination of a conveyor for pans, arms extending adjacent the conveyor, a shaft mounted on the arms, and guide blocks mounted on the shaft adapted to shift the pans laterally on the conveyor.

1,474,449. PRIMING AND STRAINING DEVICE FOR SCREW AND CENTRIFUGAL PUMPS. ALLEYER BURTON SEABORNE, London, England. Filed June 7, 1923. Serial No. 643,981. 2 Claims. (Cl. 103—113.)



1. A priming and straining device for centrifugal and like pumps comprising an interceptor or priming tank arranged between the suction pipe and the pump so that its contents are mostly above the level of the top of the pump casing and an ejector and straining device within said tank so arranged that the liquid passing through the tank before entering the pump entrains the air accumulating within the tank, as set forth.

1,474,450. VACUUM-FEED TANK FOR AUTOMOBILES. LEO G. STRANSKY, Pukwana, S. Dak. Filed Sept. 22, 1922. Serial No. 589,779. 12 Claims. (Cl. 158—36.)



1. An attachment for the purpose set forth comprising an air conducting element in the form of a substantially short tubular member having duplex means intermediate its ends for communication with the vacuum tank and intake manifold of an internal combustion engine, said member further provided with a plurality of angularly disposed tubular extensions adapted to communicate with the atmosphere and each having its free end edge slotted to form a by-pass, the free end edge of each of said extensions constituting a valve seat, a cup shaped valve retainer adjustably mounted on and projecting from the free end of each of said extensions, each of said retainers provided with an opening for establishing communication between an extension and the atmosphere, and a gravity movable globular valve mounted in each retainer and coacting with a valve seat for controlling the supply of atmospheric air to the intake manifold of the engine during the suction stroke thereof.

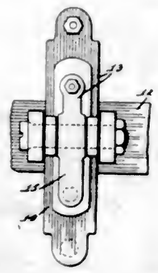
1,474,451. ELECTRIC CANDLE. THÉODORE STÜCKELBERGER, Montmirail, Switzerland. Filed Dec. 16, 1922. Serial No. 607,297. 10 Claims. (Cl. 240—8.5.)



1. Electric candle comprising in combination a closed cylindrical tube serving as waterproof electrically insulating protecting sleeve, a galvanic battery mounted in said tube, an electric glow lamp bulb mounted in the upper end of said tube in such a manner that without casing and without special contact devices the direct closing and interrupting of the electric circuit is effected by the rotation of the glow lamp bulb, a transparent protecting sleeve mounted upon the upper end of said tube and a reflector in said protecting sleeve.

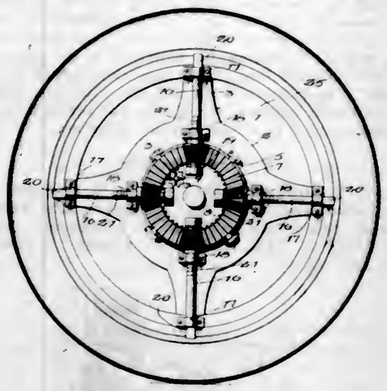
1,474,452. ENGINE HEAD. GEORGE SEITA, San Antonio, Tex., assignor of one-half to James B. Cunningham, San Antonio, Tex. Filed July 28, 1922. Serial No. 578,199. 4 Claims. (Cl. 123—90.)

1. An engine head having intake and exhaust openings, pairs of exhaust valves for controlling the passage of exhaust gases from the engine, said exhaust valves being arranged in parallel relation with each other, means for controlling the movements of the valves, said means in-



cluding an outer rocker formed with an opening, and an inner rocker, positioned within the opening, and a push rod for operating the exhaust valves simultaneously.

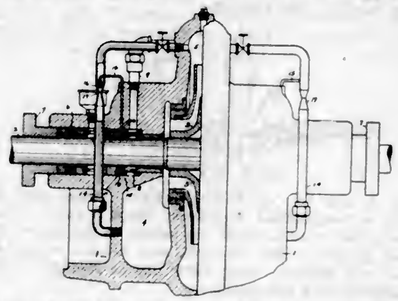
1,474,453. RETAINING DEVICE FOR DEMOUNTABLE RIMS. CHARLES G. TAYLOR, Kindersley, Saskatchewan, Canada. Filed June 22, 1922. Serial No. 570,271. 2 Claims. (Cl. 301—21.)



1. In combination, a felly, a demountable rim on the felly, a plate supported by the felly interiorly thereof, a gear element rotatable on the plate and including an internal gear portion and a beveled gear portion, a spur gear rotatable on the plate and engageable with the gear portion, means for rotating the spur gear, means for locking the spur gear, a plurality of bolts, brackets for receiving said bolts, nuts threadedly mounted on said bolts, said nuts provided with beveled gear portions meshing with the beveled gear portions of said gear elements whereby the bolts may be moved in and out of engagement with the demountable rim in the manner and for the purpose specified.

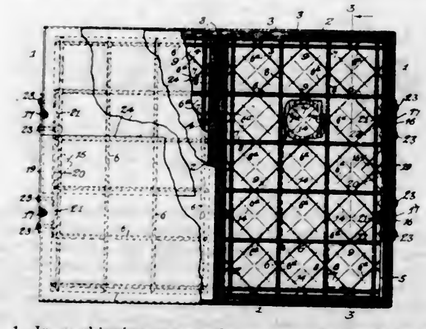
1,474,454. CENTRIFUGAL PUMP. ARCHIBALD S. TELFER, Houston, Tex. Filed Mar 17, 1922. Serial No. 544,670. Renewed Sept. 4, 1923. 3 Claims. (Cl. 103—111.)

1. A centrifugal pump, having a casing containing a suction chamber and a discharge chamber, a pipe connecting said chambers through which fluid is forced from the latter to the former, an impeller shaft having a bearing in the pump casing, an impeller fixed thereon, a fluid



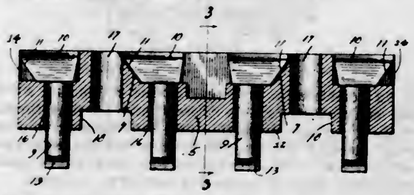
conduit leading from the shaft bearing and entering said pipe and formed into an ejector nozzle within said pipe.

1,474,455. SHIPPING RECEPTACLE. ARTHUR T. VINSON, Jacksonville, Fla. Filed May 27, 1922. Serial No. 564,129. 2 Claims. (Cl. 229—28.)



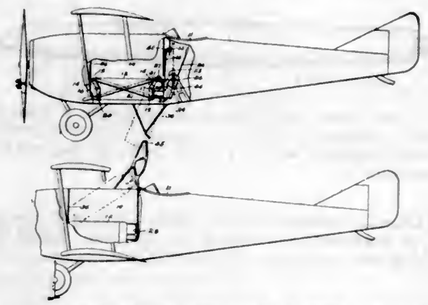
1. In a shipping receptacle or crate for eggs or the like, upright and cross partitions of composite conformation with alternate plain and corrugated layers of cardboard, an exterior protecting wall of cardboard composed of a plurality of alternate layers of plain and corrugated cardboard united to provide a wall of greater cushioning effect than the first named walls, and the exterior plural protecting cushioning layers having cord receiving grooves and retaining means exterior to and fastened thereinto.

1,474,456. ENDLESS-TRACK LUG. THOMAS WATSON, Ray, Minn. Filed Mar. 5, 1923. Serial No. 622,968. 1 Claim. (Cl. 305—10.)



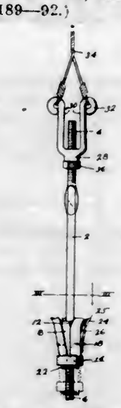
In a lug of the class described, a body portion having a central elongated cut out portion and having lateral cut out portions, said central cut out portion having inclined end walls, said body portion having openings extending therethrough, spikes disposed within the openings and having heads, the heads of the spikes disposed within the central cut out portion having inclined surfaces contacting with the inclined walls of the cut out portions, and said spikes having tapered ground engaging portions.

1,474,457. INTRA-AIRPLANE MAIL TRANSFER. LOWELL C. WEINBERG and HERBERT E. BRANNON, Dayton, Ohio. Filed June 29, 1921. Serial No. 481,378. 12 Claims. (Cl. 258—1.)



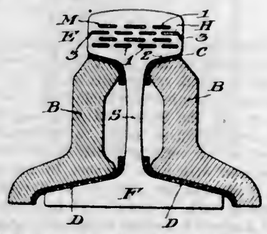
1. In apparatus for transferring packages by gravity from one aircraft to another while both are in flight, means for supporting a package at relatively spaced points, and means for releasing each supporting means independently of the other.

1,474,458. ANCHOR. WILLIAM WALKER WILKISON, Avalon, Mo. Filed Oct. 27, 1922. Serial No. 597,285. 4 Claims. (Cl. 189—92.)



1. A device of the character described consisting of a rod, a member threaded upon one end of said rod, flukes loosely connected to said member, and a spreader fixed to the rod to spread the flukes apart when the rod is screwed into the member, said spreader having means which positively engage flukes and prevent the rod unscrewing from the member.

1,474,459. INSULATING END POST. BENJAMIN WOLHAUPTER, New Rochelle, N. Y., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed June 27, 1923. Serial No. 648,173. 13 Claims. (Cl. 238—159.)



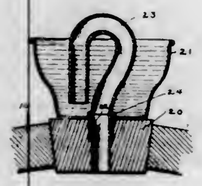
1. An insulating end post having a reducible portion.

1,474,460. ELECTROPLATING ANODE. EDWIN M. BECK, Greensburg, Ind. Filed July 5, 1922. Serial No. 572,794. 2 Claims. (Cl. 204—4.)



1. An anode for electroplating comprising a substantially cylindrical conductive core and an enveloping body of electroplating metal formed on said core and unitary therewith.

1,474,461. FERMENTATION SEAL. EUGENE A. BIRCHER, Rochester, N. Y. Filed Dec. 29, 1922. Serial No. 609,763. 5 Claims. (Cl. 217—105.)



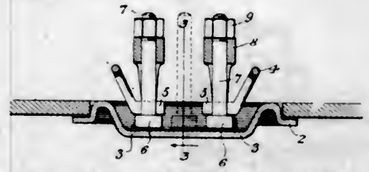
1. A fermentation seal comprising a bowl, a tube extending through the bottom of the bowl, said tube having a collar formed thereon above and below the bottom of the bowl by which the bowl and tube are fastened together by a tight joint, said tube having its upper end turned down into the bowl.

1,474,462. PORTABLE SCAFFOLD. ALBERT BLANKENHAGEN, Akron, Ohio. Filed Feb. 10, 1921. Serial No. 444,024. 5 Claims. (Cl. 304—3.)



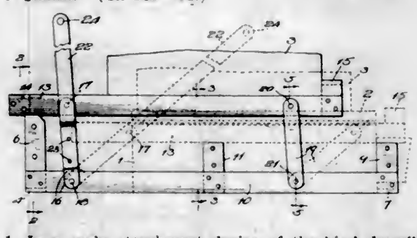
1. In combination, a ladder and an adjustable platform detachably secured to the upper end thereof so as to project forwardly and rearwardly from the extreme upper end thereof, said platform including a pair of clamps adapted to receive the ladder stiles, a member rotatably secured to each clamp so as to be in coaxial alinement and movable on an axis parallel to the ladder rungs, means associated with each member to engage the upper ladder rung and hold the same in fixed relation thereto, a bar secured to each member so as to project from each end thereof and deck boards adjustably secured to said bars.

1,474,463. MANHOLE COVER. LEONARD CROOKE, Hagerstown, Md. Filed May 8, 1922. Serial No. 559,183. 2 Claims. (Cl. 220—25.)



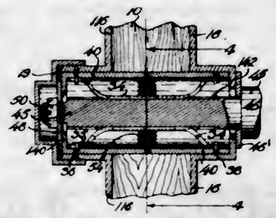
1. A man hole cover comprising a pressed steel plate with a longitudinal depression therein which forms a box girder, handles which are welded to the side walls of said depression near its ends, said handles having integral bent portions which form lips or shoulders for engagement with bolt heads.

1,474,464. SCALE PLATFORM. CHARLES D. DALLAS, Winnetka, Ill. Filed Dec. 31, 1921. Serial No. 526,278. 5 Claims. (Cl. 265—51.)



1. In a scale attachment device of the kind described and in combination, a base constructed to receive a scale base, a load carrying frame, means for adjustably connecting said frame with said first mentioned base whereby the same may be elevated or lowered as desired, means cooperating with said connecting means to support the frame in its elevated or lowered position, as desired, and a handle for moving said frame as desired.

1,474,465. RESILIENT VEHICLE WHEEL. PHILLIP DUNKEL, Denver, Colo. Filed July 25, 1922. Serial No. 577,325. 4 Claims. (Cl. 152—44.)

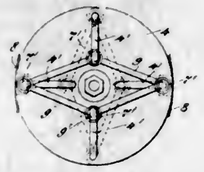


2. In combination, a wheel having a housing at the inner ends of the spokes thereof and passing through the wheel, an axle projecting into said housing, and leaf springs disposed between the housing and the axle whose ends are connected with the housing and whose middle portions are disposed in grooves carried by the axle.

1,474,466. CAN OPENER. JAMES ARNOLD FELTON, Plainfield, N. J. Filed Jan. 31, 1920, Serial No. 355,516. Renewed Sept. 29, 1922. Serial No. 591,411. 5 Claims. (Cl. 30—3.)

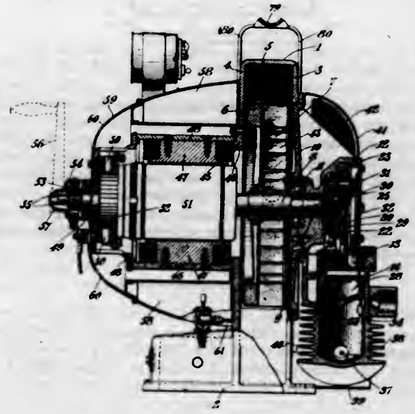
1. In a device of the class described, a plate having a plurality of guide channels formed in the same, a plurality of cutters to work in said channels and having guides at opposite sides to rest against a vessel and

resist inward movement of the cutters and positioned below the plate, supporting means for the cutters to adjust the same to different widths of vessels and comprising oppositely disposed means adapted to expand when moved in one direction and to contract when moved in



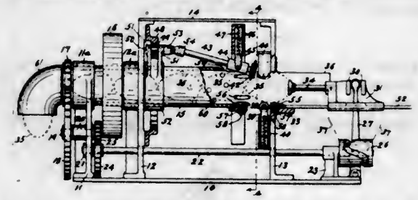
the opposite one and located above the plate, a crank arm, and connections whereby by rotating the crank, the oppositely disposed supporting means for the cutters being drawn toward each other, the cutters will be operated and the guides for the latter will be held against the sides of the vessel.

1,474,467. INTERNAL-COMBUSTION ENGINE. CHARLES H. FERGUSON, Valhalla, N. Y., assignor to Home Electric Lighting Company, East Orange, N. J., a Corporation of New Jersey. Original application filed Dec. 27, 1919, Serial No. 347,775. Divided and this application filed Oct. 29, 1921. Serial No. 511,409. 7 Claims. (Cl. 123—195.)



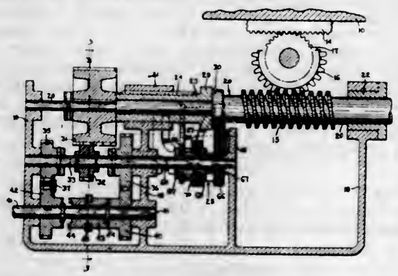
1. In an internal combustion engine, the combination of a supporting base and a fly wheel casing supported thereby, said casing having parallel walls provided with coaxial apertures and having on their exterior faces coaxial guiding and positioning devices, a bearing supporting means engaging each of said coaxial guiding and positioning devices on the said casing and being secured to the exterior faces of said parallel walls respectively, bearings located centrally in said bearing supports, one of said bearing supporting means being provided with an integral crank case formed with a face to receive an engine cylinder and hold it with its axis perpendicular to the common axis of said bearings, a cylinder secured to said face and supported entirely thereby, independently of the base, a shaft engaging said bearings, a balance wheel on said shaft between the parallel walls of the casing, a crank on said shaft in said crank case, a piston in said cylinder and a piston rod connecting said piston and crank.

1,474,468. NUT-SHELLING MACHINE. MICHAEL J. FOGARTY, Brooklyn, N. Y. Filed Nov. 4, 1922. Serial No. 599,094. 27 Claims. (Cl. 146—10.)



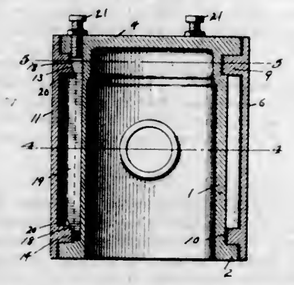
1. A coconut shelling machine comprising means for advancing a nut, a shell cutter, a gripper device operable by the advance of the nut to hold the same against rotation, and means for automatically delivering and tumbling the nuts from said shell cutter.

1,474,469. POSITIVELY-ACTUATED EASY START AND STOP TABLE-REVERSING MECHANISM. WARREN F. FRASER, Westboro, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed May 5, 1922. Serial No. 558,577. 19 Claims. (Cl. 74—98.)



1. In a machine tool having a reciprocable table a driving and reversing mechanism therefor comprising a driven member operatively connected with the table, a driver to move said driven member at a uniform and full speed for a variable period and positively actuated mechanism to give said driver a compound and fixed cyclic movement at reversal which stops and starts the table gradually.

1,474,470. ADJUSTABLE PISTON FOR ENGINES. HOWARD B. GOODHART, Lancaster, Pa., assignor of one-half to Charles A. Potts, Lancaster, Pa. Filed July 20, 1922. Serial No. 576,295. 3 Claims. (Cl. 74—108.)



1. A piston for use in an internal combustion engine cylinder or the like comprising a body member, a plurality of longitudinal wall sections, a plurality of expansion plates, expansion rods slidably positioned between the

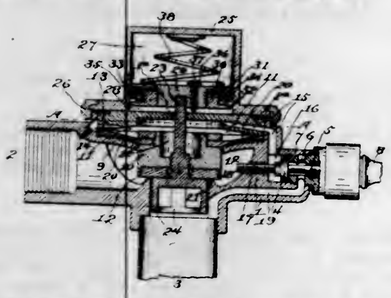
body member and the expansion plates, and means operated through the piston head for moving the longitudinal wall sections and expansion plates into engagement with the walls of the engine cylinder.

1,474,471. SAFETY RAZOR. HARRY W. GREENBRIER, Newark, N. J., assignor, by mesne assignments, to The Greist Manufacturing Company, a Corporation of Connecticut. Filed Aug. 4, 1920. Serial No. 401,135. 1 Claim. (Cl. 30—12.)



In a safety razor, a clamping element having a thickened portion intermediate of its ends formed with a slot to permit of the insertion of a blade therein, whereby the blade will lie in contact with the inner face of the clamping element, an externally threaded lug carried by said thickened portion, a blade support provided with an aperture intermediate of its edges to permit of the passage of said lug therethrough, and a handle having a recess at its upper extremity threaded for engagement with said lug, whereby the handle may be manipulated to produce pressure between said clamping element and blade support to immovably hold a blade in cutting position.

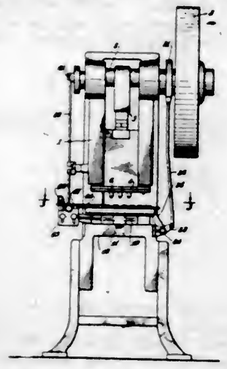
1,474,472. WATER-FLUSHING DEVICE. DAVID E. GULICK, San Francisco, Calif. Filed Nov. 1, 1918. Serial No. 260,690. 6 Claims. (Cl. 137—93.)



1. A flushing device including a casing with an inlet and a discharge outlet, two movable divisions and a fixed partition dividing the casing into four subchambers, each subchamber connected to the adjoining subchamber by normally open fluid passage means, a main valve to control the discharge outlet, a water passage connecting one of the intermediate subchambers with the outlet, a valve to control said water passage, and means for renewing a portion of the controlling fluid during each flushing operation.

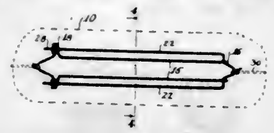
1,474,473. PRESS MECHANISM. WALTER F. HEROLD, Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Aug. 25, 1921. Serial No. 495,254. 8 Claims. (Cl. 113—38.)

2. In a press mechanism, the combination of a rotatable plate having an odd number of dies spaced equal distances apart, peripherally thereabout, a reciprocating press head having a pair of pressing members, positioned above the path of said dies, and means for rotating said plate step by step a distance of two die spaces upon each



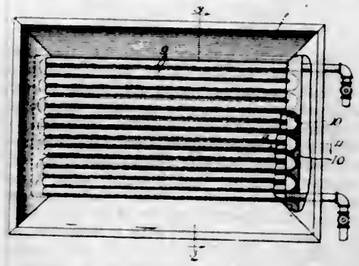
operation of said press head, said pressing members being separated from each other a distance equal to $\frac{n}{2}$ times the feed of said plate, where n is an odd number.

1,474,474. BOBBED-HAIR HOLDER AND ROLL. HATTIE HOFFMAN, New York, N. Y. Filed Dec. 19, 1922. Serial No. 607,790. 3 Claims. (Cl. 132—55.)



1. In combination, a form member to the outside of which the intermediate part of bobbed hair may be disposed; clamping device attached to said member for holding the ends of the bobbed hair upwardly pointing and concealed behind said member and said intermediate portion to form a roll of less than one convolution; and means secured to the form member and extending around the outside of said intermediate portion for holding said form member and roll in place.

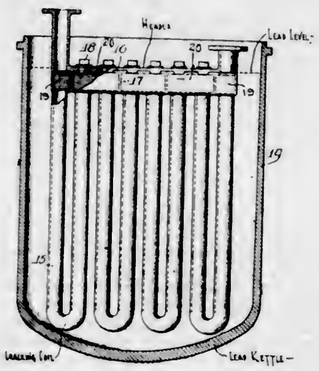
1,474,475. METHOD OF TREATING PETROLEUM. DANIEL W. HOGE, Chicago, Ill., assignor, by mesne assignments, to Bash Oil and Refining Company, Chicago, Ill., a Corporation of Delaware. Filed June 24, 1916. Serial No. 105,584. 6 Claims. (Cl. 196—25.)



1. The method of obtaining gasoline which consists in vaporizing heavy hydro-carbon oils, causing the vapor to flow slowly at low pressure through and in contact with the walls of a conduit having relatively great length with respect to its cross-sectional area, causing the vapor to frequently and abruptly change its direction of flow

through said conduit to prevent the formation of carbon, and heating the walls of the conduit to a temperature sufficiently high to break down the high boiling point compounds of the vapor as it passes through the conduit in contact with the heated walls thereof.

1,474,476. METHOD OF TREATING PETROLEUM VAPOR. DANIEL W. HOGE, Chicago, Ill., assignor to Bash Oil and Refining Company, Chicago, Ill., a Corporation of Delaware. Filed May 25, 1918, Serial No. 236,449. Renewed Aug. 21, 1923. 3 Claims. (Cl. 196—25.)



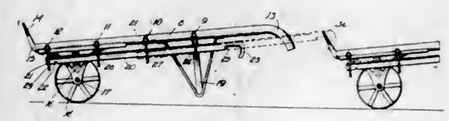
2. A method of treating vapor of petroleum or the heavier fractions thereof which comprises, conducting the vapor under a pressure sufficiently only to cause the vapor to advance through a reaction zone of relatively great length and small cross sectional area, maintaining the vapor during its passage through said reaction zone at a substantially uniform temperature between 650° F. and 1100° F. sufficient to break down compounds having high boiling points into compounds having relatively low boiling points, subjecting the stream of vapor during its movement through said reaction zone to successive abrupt impingements, and permitting the vapor to flow unobstructedly through the reaction zone portions lying between the successive points of impingement.

1,474,477. TRUCK COUPLING. ESTIL J. HUFFMAN, Chicago, Ill., assignor to Sears, Roebuck and Co., a Corporation of New York. Filed Nov. 8, 1920. Serial No. 422,450. 9 Claims. (Cl. 280—33.44.)



1. In a train of hand trucks, the combination of a coupling bar adapted to extend longitudinally between two trucks in contiguous relation and having a detachable connection with one of said trucks, and a flexible connection with the other, said bar having a single cross member thereon serving the double function of preventing longitudinal movement of the bar with respect to one of the trucks and to support the weight of the same, said bar by its connection with the other truck being arranged to transmit thereto part of the weight of the former truck.

1,474,478. TRUCK COUPLING. ESTIL J. HUFFMAN, Chicago, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a Corporation of New York. Filed Jan. 20, 1921. Serial No. 438,672. 11 Claims. (Cl. 280—33.44.)

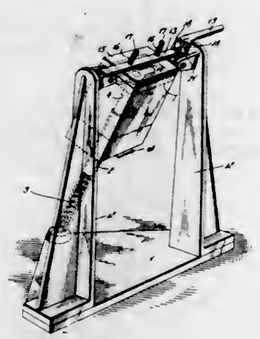


1. In combination with a hand truck, a coupling bar, and means for mounting said bar comprising a plurality of hangers fixed to the truck and arranged to receive said bar in slidable engagement whereby said bar may be carried in inoperative position disposed beneath said truck, or extended to operatively engage another truck.

1,474,479. MANUFACTURE OF METAL CHLORIDES. BERNARD HOWARD JACOBSON, Charleston, W. Va., assignor to E. C. Klipstein & Sons Company, New York, N. Y., a Corporation of New Jersey. Filed May 31, 1922. Serial No. 564,972. 10 Claims. (Cl. 23—13.)

1. The process of manufacturing an anhydrous metal chloride which comprises subjecting the metal whose chloride is desired to the action of chlorine through the intermediacy of bromine under reacting conditions and in the presence of an agent that is effective to maintain the reaction mass fluid under normal atmospheric pressure at a temperature below the melting point of the pure chloride.

1,474,480. SINGLE-HEAD-CARTON-SEALING MACHINE. WALLACE D. KIMBALL and ARTHUR E. RIDEOUT, New York, N. Y. Filed July 15, 1920. Serial No. 396,361. 4 Claims. (Cl. 93—36.)



1. In a carton closing machine, the combination of a form block, means for supporting said block with its working face at a fixed acute angle to the horizontal, said supporting means being fixedly mounted at an angle to the vertical and comprising a hollow column, a plunger sliding therein, and a spring within said column reacting on said plunger for resisting the movement of said members in one direction, and a presser block mounted to be pressed against a form block with its working face parallel to the working face of the form block.

1,474,481. RESILIENT SAFETY TREAD. CLARENCE R. KING, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 29, 1919. Serial No. 341,370. 6 Claims. (Cl. 94—5.)

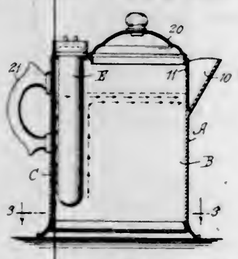


3. A safety tread comprising a body of resilient rubber and chips of ceramic bonded abrasive granules embedded therein.

1,474,482. PLASTIC MATERIAL. FRANK T. LAHEY, Akron, Ohio. Filed Oct. 10, 1921. Serial No. 506,875. 6 Claims. (Cl. 106—23.)

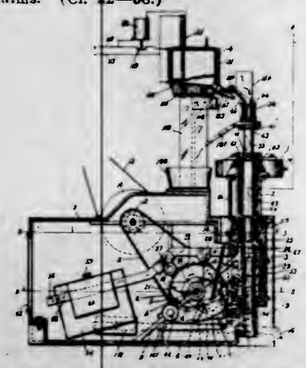
1. A plastic material consisting of a fiber pulp, shredded rubberized fabric, an emulsified, oleaginous substance and sulphur.

1,474,483. ELECTRIC HEATING APPLIANCE. CLEMENS A. LAISE, Weehawken, and ALBERT J. GALLAGER, West Orange, N. J. Filed June 28, 1921. Serial No. 480,962. 10 Claims. (Cl. 219—44.)



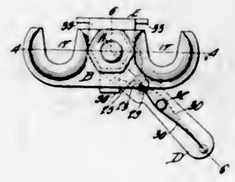
1. A heating appliance which comprises a chamber adapted to receive an object to be heated, and a heating chamber connected to the heat receiving chamber in such a manner as to permit the free circulation of fluid through said chambers, said heating chamber being arranged to receive an electric heater.

1,474,484. MACHINE FOR CASTING BUSHINGS. THURE LARSSON, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 31, 1921. Serial No. 457,270. 24 Claims. (Cl. 22—58.)



1. A machine for casting a metal bushing in an abrasive wheel comprising a support for the wheel, means to center wheels of various sizes thereon, means including a movable core which cooperate with the wall defining the hole in said article to form a mold, and means for automatically causing molten metal to flow into said mold.

1,474,485. VALVE LIFTER. JACOB A. LEONARD, Rockford, Ill. Filed June 28, 1922. Serial No. 571,534. 7 Claims. (Cl. 29—86.3.)



1. A valve lifter comprising a U shaped base, a screw having the lower end thereof journaled in the legs of said U shaped base and the upper end thereof threaded, a ratchet mechanism between said legs to rotate said screw, a plate independent of said base and in threaded engagement with said threaded end of said screw and provided with valve spring engaging means.

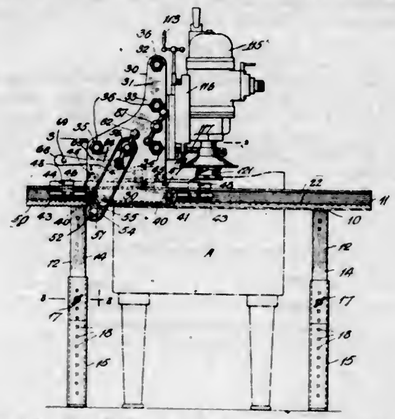
1,474,486. ELECTRICAL CONDENSER. BYRON MACPHERSON, Roxbury, Mass., assignor to Wireless Specialty Apparatus Company, Boston, Mass., a Corporation of New York. Filed June 3, 1919. Serial No. 301,498. 22 Claims. (Cl. 250—41.)



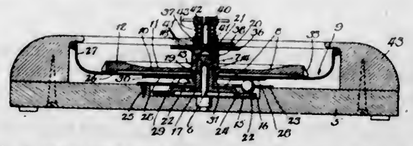
1. A high potential condenser consisting of a stack of sections adapted to be connected together in series, and a metal sheet between adjacent sections connected at one end to a given end of one of said adjacent sections and connected at its other end to the opposite end of the other of said adjacent sections whereby said sections are electrically connected in series.

1,474,487. METHOD OF AND APPARATUS FOR TRUING SURFACES. SIMON MILLER, Newark, N. J. Filed May 13, 1922. Serial No. 560,561. 16 Claims. (Cl. 144—2.)

1. A method of forming a substantially flat surface on a block, comprising traversing a circular saw forward and backward across the block in parallel lines with the axis of the saw tipped slightly forward with respect to the forward traverses, and feeding the saw outward after each forward traverse and before the next backward traverse to such an extent that the lowest part of the periphery of the saw is brought over the ridge left under the outer edge of the saw during the forward traverse so that substantially all of said ridge is removed on the next backward traverse.

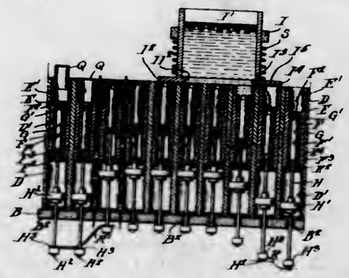


1,474,488. GAME APPARATUS. JOHN NELSON, Chicago, Ill., assignor of one-half to Ernest Anderson, Chicago, Ill. Filed June 9, 1922. Serial No. 566,964. 15 Claims. (Cl. 46—57.)



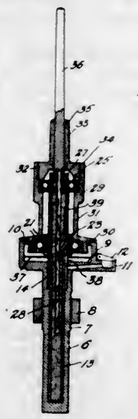
1. A game apparatus comprising a rotatory disc, a rotary pan mounted coaxially therewith, and motion transmitting, pan supporting balls secured against bodily movement and interposed between said disc and pan.

1,474,489. MACHINE FOR CASTING THIN METAL CUPS. DAVID PEPPER, Philadelphia, Pa. Filed Aug. 15, 1921. Serial No. 492,359. 7 Claims. (Cl. 22—154.)



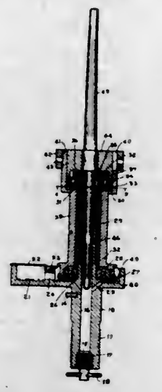
1. In a machine for casting thin metal cups comprising a series of molds, means for progressively moving the molds through a fixed path, plungers working in the molds and a reservoir for melted metal resting on top of the molds and having a bottom opening which registers with the molds as they pass beneath it, the construction of the reservoir with a small channel formed in its bottom and located so as to register with the molds in advance of the main bottom opening of the mold.

1,474,490. SPINDLE. EDWIN A. PEERKINS, Jamaica, N. Y. Filed June 10, 1919. Serial No. 303,175. 11 Claims. (Cl. 118—66.)



1. In a spinning spindle a base member having lubricant containing means, a bushing mounted rigidly to said base, a self-balancing bolster mounted in said bushing, a whirl having a blade integral therewith and enlarged head and foot portions mounted on said bolster by means of ball bearings in said head and foot portions, and means for continuously lubricating said bearings.

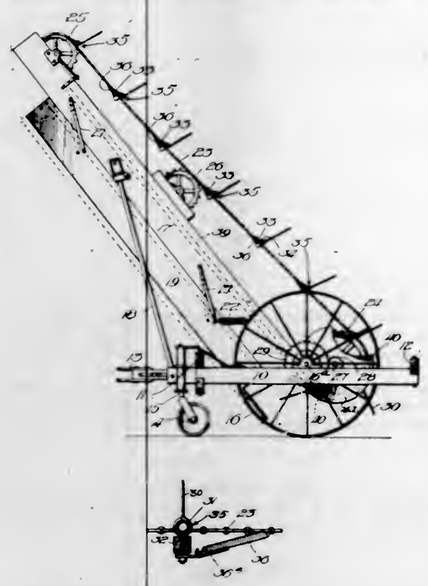
1,474,491. SILK SPINDLE. EDWIN A. PEERKINS, Jamaica, N. Y. Filed Dec. 10, 1921. Serial No. 521,277. 23 Claims. (Cl. 64—56.)



1. In a spindle the combination of a base member having a central bore and plug at base of bore, an oil cup and filler member integral therewith and an oil connection to said bore, a lower ball bearing supported on said base member and a locking plate, an upper ball bearing supported on a spacer member from the lower bearing and a split nut and lock-screw holding same in fixed position, a whirl mounted on said bearings and having slots at its head, a plug mounted in the head of said whirl, an oil pump and blade carried by said plug, a nut to lock the head of said whirl to said plug, an oil collector plate mounted on the spacer below the upper bearing and an oil baffle-plate mounted below the lower bearing, oil holes in the spacer member around the oil collector plate and near the base of the spacer,

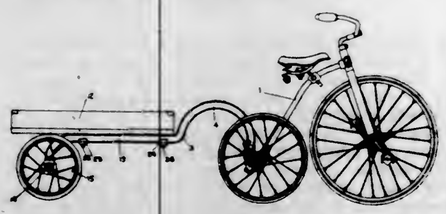
a rigid pin mounted externally in the base member below the oil cup and external threading at the lower end of the base member and a spring thereover and a retaining nut.

1,474,492. HAY LOADER. HARRY WILLIAM PIERSON, Princeton, Ill.; Selma W. Pierson administratrix of said Harry W. Pierson, deceased. Filed Jan. 3, 1920. Serial No. 349,155. 9 Claims. (Cl. 56—345.)



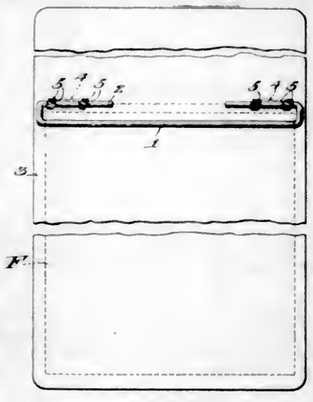
1. In a hay loader, the combination of a supporting frame, ground wheels, endless chains driven by the ground wheels, rake heads rotatably mounted upon the endless chains, rake teeth carried by the rake heads, fingers connected with the rake heads, guides for engaging the fingers to positively hold the rake teeth in projected position during the gathering and elevating operations, said guides terminating at the discharging point to permit a recession of the rake teeth, and a spring for each rake head for permitting the teeth when released to return under spring tension, substantially as described.

1,474,493. JUVENILE VEHICLE. MAYO E. ROE, Elyria, Ohio, assignor to The Colson Company, Elyria, Ohio, a Corporation of Ohio. Filed Jan. 12, 1922. Serial No. 528,595. 5 Claims. (Cl. 208—45.)



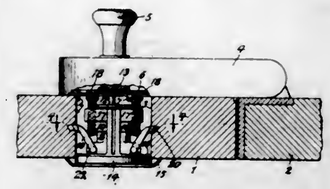
1. In combination, a velocipede including a rear axle having wheels journalled at each end thereof, a trailer having an upwardly arched draft tongue extending forwardly therefrom, and a connecting member carried by said axle with which the forward end of said tongue is vertically pivoted, the arched portion of said tongue permitting the velocipede wheels to extend thereunder when the velocipede is disposed angularly relative to the trailer.

1,474,494. DETACHABLE FILLER FOR MEMORANDUM BOOKS. JOHN SCHADE, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a Voluntary Trust Association of Copartnership. Filed Oct. 16, 1922. Serial No. 594,676. 2 Claims. (Cl. 129—38.)



1. In a memorandum book, a foldable cover, an attaching member having a body and ends offset therefrom, clips engaged over the back of the cover and having spurs clinched over the body ends to hold the body spaced from the cover, and a filler threaded through said space.

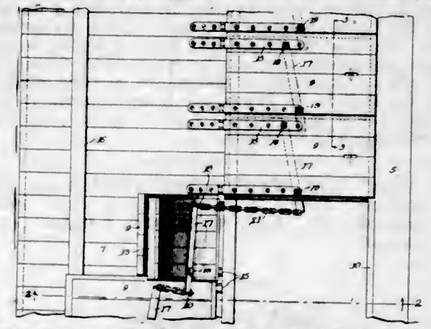
1,474,495. CYLINDER LOCK. SAMUEL SEGAL, New York, N. Y., assignor to Segal Metal Products Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 26, 1921. Serial No. 464,715. 10 Claims. (Cl. 70—46.)



1. In a lock, the combination with a wall having an opening therein and a lock cylinder within said opening, a lock casing containing the lock mechanism and flanges cut out of the material of a wall of said casing and bent over to extend outwardly from said casing and adapted to engage the wall of said opening and acting as guides to permit said casing to be mounted in proper position on said wall.

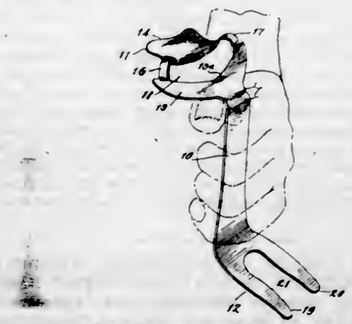
1,474,496. HINGED DOOR. THOMAS SHIPLEY, York, Pa. Filed June 1, 1923. Serial No. 642,798. 4 Claims. (Cl. 20—16.)

1. The combination of a plurality of doors hinged on substantially alined axes, to swing from a closed position through approximately 180 degrees to an open position; of limit stop means engaging between adjacent doors and



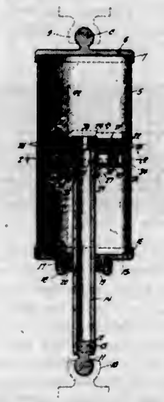
serving to cause the final opening movement of one door to effect the initial opening movement of the next.

1,474,497. DENTAL APPLIANCE. ISAAC STOLPER, New York, N. Y. Filed Apr. 28, 1922. Serial No. 557,159. 3 Claims. (Cl. 32—7.)



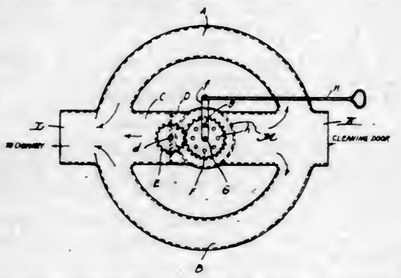
1. A dental appliance comprising a shank handle member, a forked member extending from one end of said shank, substantially at right angles thereto, and a tongue and lip piece extending from the other end of said shank substantially at right angles thereto, and comprising a curved portion adapted to act as a lip rest and tongue piece raised above said lip rest and spaced therefrom.

1,474,498. SHOCK ABSORBER. JOHN M. SWANSTROM, Chicago, Ill. Filed Jan. 19, 1922. Serial No. 530,316. 10 Claims. (Cl. 188—88.)



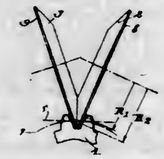
1. A shock absorber comprising an air tight cylinder, a piston in said cylinder and valve mechanism for equalising the pressure of the air on opposite sides of said piston only at the initiation of movement of said piston in either direction.

1,474,499. FURNACE. ERNEST C. TAYLOR, Elyria, Ohio. Filed Aug. 26, 1920, Serial No. 406,111. Renewed Oct. 5, 1923. 8 Claims. (Cl. 126—102.)



6. The combination of a furnace radiator having semi-annular smoke passages and a central cross passageway connecting said semi-annular passageways, a damper within said central passageways, a lever for operating said damper, and means for rotating said lever to any one of a plurality of positions in a horizontal plane with respect to said radiator for adjusting the position of said damper.

1,474,500. METHOD OF MANUFACTURING GEAR WHEELS. ERIK HJALMAR WINGQVIST, Utbynas Villastad, near Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden, a Corporation of Sweden. Filed Oct. 22, 1920. Serial No. 418,825. 3 Claims. (Cl. 90—8.)



1. The method of shaping the teeth of gear wheels, which consists in rotating the wheel blank on its axis, and presenting the side of the tooth to the action of a conical rotary shaping surface, while moving the said surface bodily relatively to the wheel.

1,474,501. STOP MECHANISM FOR PHONOGRAPHS AND THE LIKE. OLIVER S. WRIGHT, Philadelphia, Pa. Filed May 20, 1920. Serial No. 382,738. 11 Claims. (Cl. 192—118.)



1. A phonograph stop mechanism comprising normally movable elements actuated by motions separately derived from the playing of a record, means for giving one of

said elements a continuous normally idle vibratory motion additional to its movement aforesaid, a braking mechanism and means for causing the vibrating element during a vibratory period to release the braking mechanism.

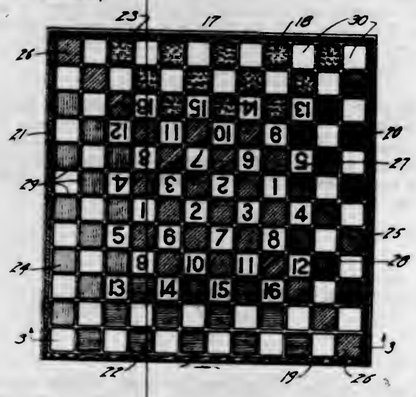
1,474,502. ART OF RENDERING PAPER AND OTHER FIBROUS MATERIAL IMPERVIOUS TO GREASE. WILBUR L. WRIGHT, Fulton, N. Y. Filed May 12, 1920. Serial No. 380,752. 3 Claims. (Cl. 134—12.)

3. A paper material container having an internal grease-proofing layer composed of a composition of dissolved casein rendered flexible by glycerine.

1,474,503. COATING COMPOSITION AND PAPER MATERIAL COATED THEREWITH. WILBUR L. WRIGHT, Fulton, N. Y. Filed May 21, 1920. Serial No. 383,166. 4 Claims. (Cl. 134—12.)

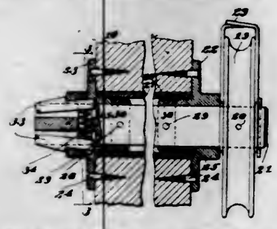
4. A paper material container embodying a flexible grease proof barrier rendered moisture proof by a small percentage of tannic acid.

1,474,504. GAME. JAMES B. ALLEN, Denver, Colo. Filed Mar. 14, 1922. Serial No. 543,732. 2 Claims. (Cl. 46—64.)



2. A game-apparatus comprising a four sided gameboard divided into a plurality of spaces and playing counters divided by color into four opposing sets, said board having a series of alternating spaces at each of the sides thereof corresponding in number and color to the four sets of counters, and a band of color surrounding the entire board, the color of the band at each side of said board coinciding in color with that of the series of alternating spaces at the opposite side of said board.

1,474,505. INTERIOR AWNING CONTROL. FRANK R. ASHLEY, Denver, Colo. Filed Sept. 11, 1922. Serial No. 587,316. 1 Claim. (Cl. 156—15.)



An improved mechanism for operating an awning from the interior of a building comprising a pair of flanges spaced apart from each other, a plurality of locking notches on one of said flanges, a shaft rotatably mounted in said flanges, a plurality of locking fingers pivotally mounted on one end of said shaft and cooperating with the locking notches to maintain the shaft in any desired position with respect to said flanges, means for forcing the free ends of said pivotally mounted locking fingers into engagement with the locking notches, means for forcing the fingers out of said notches to allow rotation of the shaft in the flanges, and a drum secured to the other end of said shaft for associating said operating mechanism with an awning.

1,474,506. LOCK SWITCH FOR AUTOMOBILE IGNITION. JOSEPH E. BARKER, Denver, Colo. Filed Sept. 30, 1922. Serial No. 591,633. 6 Claims. (Cl. 200—45.)

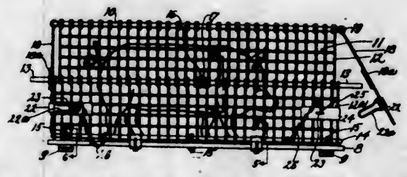


1. A switch comprising, in combination, a cylindrical casing, an insulating disk adapted to be secured to the casing intermediate the ends thereof, a plurality of switch contacts secured to said disk, a switch member pivotally connected to the disk near one side thereof, arcuate conducting members connected to said switch member and adapted to be moved into and out of engagement with the switch contacts, means for rotating the switch member, a pair of contacts adapted to be connected to the ignition circuit, an ignition switch member movable into and out of contact with the said contacts, and permutation means for locking the ignition switch member in open position.

1,474,507. PROCESS OF RECOVERING RESIDUAL ANTHRAQUINONE FROM A SULPHONATION MASS. ARTHUR E. BARNARD, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 18, 1921. Serial No. 493,489. 11 Claims. (Cl. 260—57.)

2. The process of recovering residual anthraquinone from a sulphonation reaction mass which comprises mixing water by degrees directly with the sulphonation mass until the sulphuric acid concentration is about 75%, drowning the resulting mass in water, filtering off the sulphonation products, and washing the residual anthraquinone neutral to litmus.

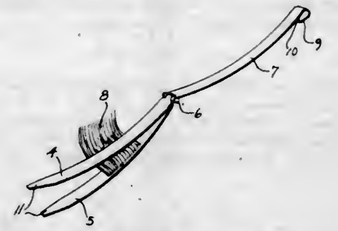
1,474,508. CRATE. ERNEST BENSON, Valley City, N. Dak. Filed Mar. 1, 1922. Serial No. 540,270. 2 Claims. (Cl. 220—6.)



1. In a collapsible crate of the class described, a solid floor member, a rectangular frame secured upon the floor along its edges and in spaced relation to the floor, a top frame corresponding in size to the first mentioned frame, side body members comprising each two sections hingedly connected at their adjacent edges and at their opposite edges to the top and bottom frames, end sections pivotally secured to the ends of the top frame, means for holding the sides and ends in their respective vertical planes when the crate is in erected position and means for locking the crate in collapsed, folded position, said members

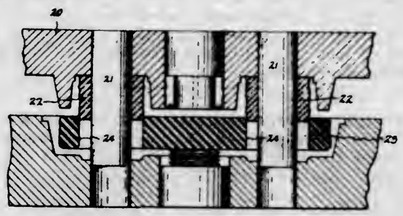
of the side sections comprising wire netting the adjacent vertical wire ends of which are wound around the pintle bar of the middle hinge of each side, and the opposite ends of said wires being pivotally secured respectively, the upper section wires to the top frame and the lower section wires to the lower rectangular frame adjacent the floor, and said pintle bar in each side protruding beyond the main frame at both ends, and providing handles for carrying the crate, and rigid loops on the edges of the end frames adapted to engage said pintles, when the frame is set up, and means for locking said end sections to the adjacent side sections in rigid relation thereto.

1,474,509. HAIR CURLER AND WAVER. AGNAR F. BYSTROM, Los Angeles, Calif. Filed July 26, 1922. Serial No. 577,553. 3 Claims. (Cl. 132—41.)



3. In a hair curler and waver, the combination of primary outer and intermediate hair-clamping members extending side by side and connected at one end integrally, said members being of spring sheet material and constructed to tend to spring apart, a secondary hair-clamping member hingedly connected to the primary members at their connection to allow the secondary member to lie adjacent to the intermediate member, and means to releasably fasten the other end of the secondary member to the outer primary member.

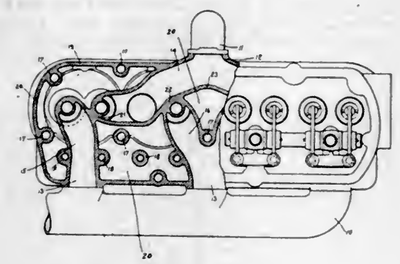
1,474,510. METHOD OF MAKING BATTERY-JAR COVERS. STANLEY T. CAMPBELL, Cleveland, Ohio, assignor to The Aetna Rubber Co., Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 17, 1921. Serial No. 515,997. 2 Claims. (Cl. 18—59.)



1. The method of making battery jar covers comprising the fitting of bushings of soft rubber compounds about the pins in the mold for forming the openings for the contact posts, inserting a piece of hard rubber compound in the mold and forcing the mold plates together under heat and pressure to form an integral cover having soft rubber bushings.

1,474,511. MOTOR HEAD. LOUIS CHEVROLET, Indianapolis, Ind., assignor to Chevrolet Bros. Manufacturing Co., Indianapolis, Ind. Filed Mar. 18, 1921. Serial No. 453,224. 6 Claims. (Cl. 123—52.)

4. In a detachable cylinder head for a multi-cylinder L-type motor having a detachable head and a cylinder block provided with gas passages, and registering openings in both for the push rods and securing bolts, said replacing head having registering openings and having a plural number of valves per cylinder, a common opening upon one side of said replaceable head, another opening upon the other side thereof and substantially opposite the same, a Y-shaped passage associated with the first mentioned opening and adapted to connect



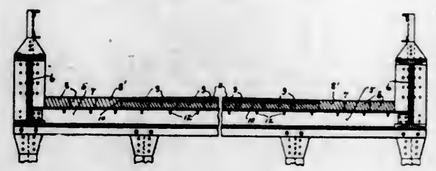
with the outside valves of two adjacent cylinders, and a V-shaped passage adapted to connect with the inside valves of two adjacent cylinders and communicating with said second mentioned opening, all of said passages being positioned within the head to avoid said openings.

1,474,512. DEPILATORY COMPOUND. FLORENCE MYRA COHAN, Oakland, Calif. Filed Jan. 31, 1917, Serial No. 145,731. Renewed July 14, 1923. 2 Claims. (Cl. 167—9.)

1. A compound consisting of a major portion of lime water and smaller portions of oil of terebinthinæ, and peroxide of hydrogen, said compound preventing the growth of hair on surfaces from which hair has been removed, and for soothing said surface.

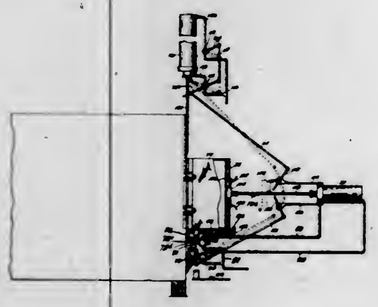
2. A compound for use in depilatory treatments consisting of a major portion of lime water, smaller portions of oil of terebinthinæ and peroxide of hydrogen mixed with desired proportions of tincture of cudbear and oil of lavender, said compound preventing the growth of hair and soothing rough surfaces of the skin.

1,474,513. BRIDGE CONSTRUCTION. ROBERT Z. DRAKE, Omaha, Nebr. Filed Oct. 14, 1922. Serial No. 594,518. 3 Claims. (Cl. 72—64.)



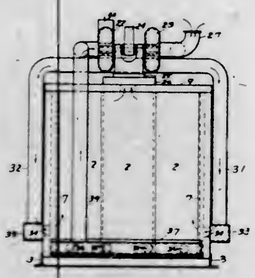
1. In a bridge floor, the combination with floor joists disposed transversely of the bridge, of fibrous strips disposed end-to-end longitudinally of the bridge and secured to the floor joists to form opposed side sections, secondary fibrous strips disposed longitudinally of the bridge between the side sections and secured to the floor joists, said secondary strips being of lesser thickness than the thickness of the first named strips to form a channel between the side sections, and an imperforate, indurate bed in said channel.

1,474,514. CARTONING MACHINE. JOHN E. DUNGAN, Moundsville, W. Va., assignor of seven-sixteenths to Walter S. Bryson, one-sixteenth to Benjamin F. Bone, one-sixteenth to Frank M. Howard, one-sixteenth to James A. Schaub, five sixty-fourths to Allen C. Scroggins, jr., one-sixteenth to H. J. Zink, five sixty-fourths to Edward Everett Koontz, one thirty-second to Floyd H. Gandee, all of Moundsville, W. Va.; one thirty-second to Chalkley L. Bundy, Adena, Ohio; and two sixty-fourths to William H. Hill, Cleveland, Ohio. Filed Oct. 8, 1921. Serial No. 506,310. 12 Claims. (Cl. 226—99.)



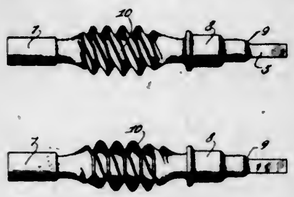
1. A machine of the character described including a tank open at one end and adapted to contain semi-solid substance, a cut-off plate normally closing the open end of the tank, means within the tank for automatically forcing the contents therefrom when the cut-off plate is opened, means in the open end of the tank for cutting the semi-solid substance into a plurality of columns as it is forced from the tank, means for moving a plurality of containers into position to receive said columns of semi-solid substance, and means for automatically opening the cut-off plate when said containers are moved into position.

1,474,515. INDUSTRIAL OVEN. WILLIAM C. EMMKA, Detroit, Mich., assignor to Detroit Sheet Metal Works, Detroit, Mich., a Partnership Firm. Filed June 14, 1920. Serial No. 388,974. 5 Claims. (Cl. 126—275.)



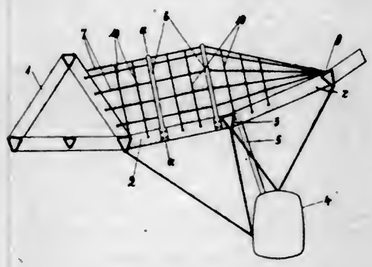
1. A portable oven, with walls comprising a combination of detachable heat insulated panels, means for supporting same, means for connecting same by a heat insulated joint, heat insulated ceiling slab and means for connecting same by heat insulated joints

1,474,516. METHOD OF FORGING GEAR WORMS. ALBERT L. EICHER, Canal Fulton, Ohio. Filed Aug. 21, 1920. Serial No. 405,074. 5 Claims. (Cl. 78—81.)



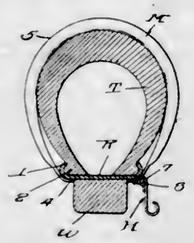
1. The method of forging gear worms which consists in first shaping the worm with a distorted pitch and then rectifying the alignment of the same.

1,474,517. AIRSHIP. JULIUS EHRARDT, Friedrichshafen-on-the-Bodensee, Germany, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen-on-the-Bodensee, Germany. Filed Aug. 19, 1922. Serial No. 582,912. 4 Claims. (Cl. 244—3.)



1. In an air-ship with trellis work construction enclosing a plurality of gas cells, and with a main gangway extending lengthwise along the bottom of the trellis work, the combination, with said trellis work construction, said gas cells, and said main gang-way, of by-gangways located at right angles to the main gang-way and being each composed of upright bows and of wires connecting said bows with each other and with the frame work, as set forth.

1,474,518. ANTISKIDDING DEVICE. THOMAS L. EVERETT, Wellsburg, W. Va., assignor of one-half to Frank E. Foster, Wellsburg, W. Va. Filed Feb. 21, 1923. Serial No. 620,413. 4 Claims. (Cl. 153—14.)



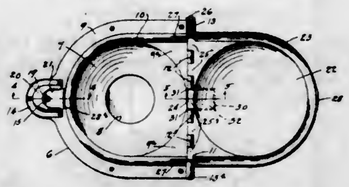
1. An anti-skidding device comprising a plurality of tread members adapted to straddle the tread portion of a tire, each of said tread members being provided with an inwardly disposed lip to engage beneath the marginal portion of the tire carrying rim, means carried by the opposite end of each of the tread members to engage beneath the second marginal portion of the tire carrying rim, and means for holding the last named means in such position.

1,474,519. PENCIL. LOTHAR W. FABER, New York, and WILLIAM ROBINSON, Brooklyn, N. Y., assignors to Eberhard Faber Pencil Company, a Corporation of New York. Filed Apr. 20, 1921. Serial No. 462,882. 4 Claims. (Cl. 120—18.)



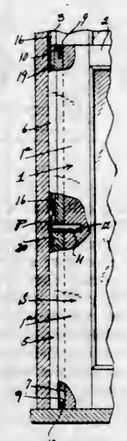
4. A pencil including a pair of tubular telescoping sections having a threaded engagement whereby relative revolution thereof produces relative longitudinal movement of said sections, one of said sections having a lead-guiding passage, an ejecting rod slidably mounted in said passage, a plug fixedly arranged in the other of said sections intermediate the length thereof to frictionally and detachably engage at one side thereof one end of said ejecting rod, the portion of said second-mentioned section at the other side of said plug serving as a chamber to receive reserve leads, and a closure for said chamber.

1,474,520. STATIONARY CUSPIDOR. LEON H. FISH, Albany, Oreg. Filed Dec. 31, 1921. Serial No. 526,165. 2 Claims. (Cl. 4—39.)



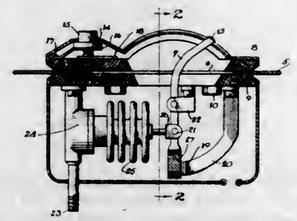
1. A cuspidor comprising a bowl-shaped member having its bottom provided with an outlet and having its upper edge merging into an attaching plate formed with an upstanding ridge, one end of the attaching plate being semi-circular and the other end being straight across, the ridge being spaced from and parallel with the edge of the attaching plate and having its ends terminating at the straight edge of the attaching plate, and a cover of concavo-convex shape in cross section and having a general shape corresponding to that of said attaching plate, the cover being hinged at the straight edge of the attaching plate and being formed with a pressed peripheral groove matingly engaging upon the ridge of the attaching plate.

1,474,521. WINDOW STRUCTURE. JOSEPH W. FOLGERT, Phillips, Wis., assignor of one-sixth to Isaac Brazelton, one-sixth to Charles Hicks, one-sixth to Norman L. Kneeland, one-sixth to Horace J. Blanchard, and one-sixth to Martin Heindl, all of Phillips, Wis. Filed June 24, 1922. Serial No. 570,603. 7 Claims. (Cl. 20—43.)



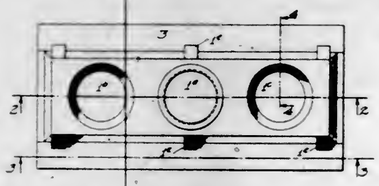
1. In combination with a window frame, a sash mounted therein, the edge faces of the stiles of the sash having mortises extending longitudinally thereof and open at their opposite ends, removable members provided with tenons engaging within the mortises of the stiles of the sash when the members are applied, each of said members comprising separable sections, and spring gripping means coacting with one of the sections of each of the members for holding the same in applied position.

1,474,522. SAFETY DEVICE FOR AUTOMOBILES. LEVING FRASER, Osceola, Ark. Filed May 31, 1923. Serial No. 642,631. 1 Claim. (Cl. 200—81.)



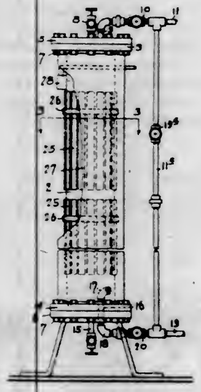
In a safety device for automobiles, an insulating plate having an aperture, a lever mounted for oscillation on the insulating plate and having a portion projecting through the aperture of said plate, an oil pressure operated device connected to the lever, a switch element carried by the lever, switch elements with relation to which the switch element on the lever coacts, a face plate having a slot in which the lever oscillates, means for connecting the said face plate to the first mentioned insulating plate, said face plate having an aperture therein, contacts mounted adjacent said aperture and a switch closing element projecting through said aperture for engaging the contacts.

1,474,523. STORAGE-BATTERY-CELL TOP. ARTHUR O. GARRETT, San Diego, and CHRISTOPHER E. FUNNELL and WILLIAM L. HOFFMAN, Los Angeles, Calif. Filed Oct. 27, 1920. Serial No. 419,839. 2 Claims. (Cl. 204—29.)



1. A storage battery cell top, including a main one-piece middle member provided with the conventional plate post and filling apertures therein and with laterally extending ledges and extending across the top of the cell longitudinally and covering only a portion of its width and imperforate auxiliary side members provided with an extended ledge portion adapted to engage the opposite side ledges of said middle member and the ledge portion of the same overlap and interlock with said ledge on said middle portion for covering the remainder of the cell top and positioned on opposite sides of said middle member.

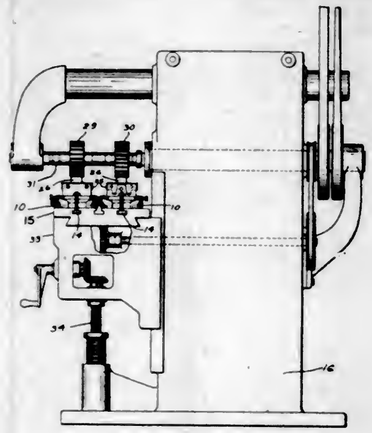
1,474,524. OIL HEATER. CORNELIUS J. GARRIGAN, Millvale, Pa. Filed May 22, 1922. Serial No. 562,695. 6 Claims. (Cl. 219—39.)



4. An electric fluid heater comprising a tubular metal casing, electric heating elements resting flat against the outside of said casing, heat-insulating material surrounding said heating elements, and means for passing fluid through said casing comprising an inlet pipe extending through one end of said casing and adapted to discharge fluid tangentially against the inner wall of said casing, and an outlet pipe communicating with the outer end of said casing.

1,474,525. ADJUSTABLE SUPPORT FOR WORKHOLDERS. BENJAMIN P. GRAVES, Providence, R. I., assignor to Brown & Sharpe Mfg. Co., Providence, R. I., a Corporation of Rhode Island. Filed Aug. 6, 1921. Serial No. 490,375. 6 Claims. (Cl. 90—58.)

1. An adjustable support for a work holding device comprising a base adapted to be secured on the work-table of a machine, an adjustable wedge in said base having an inclined face to extend parallel to the axis of



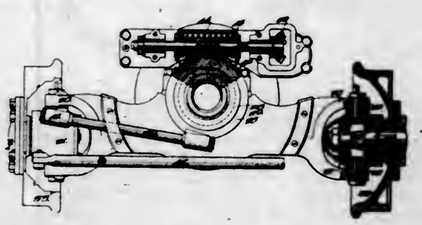
the tool of the machine, a work-holder mounted on said wedge in said base, and means for moving said wedge to laterally and vertically adjust said work-holder.

1,474,526. NONSKID CHAIN. JETER F. HOWERTON, Grand Rapids, Mich. Filed Mar. 12, 1921. Serial No. 451,715. 1 Claim. (Cl. 152—14.)



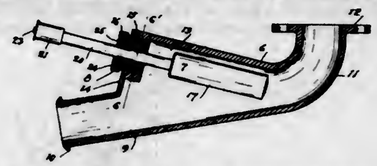
A nonskid chain including side stay chains, and Y-shaped connecting cross-chains, a heart-shaped connecting link being employed at the points of connection of the three chains forming the Y, and the length of the single chain forming the stem of the Y greater than that of the two remaining chains of the Y, whereby to draw the heart-shaped connecting link at an off-center point out of the line of traction of the travel of the wheel.

1,474,527. STEERING MECHANISM FOR SELF-PROPELLED VEHICLES. SYLVESTER H. HUNT, Milwaukee, Wis. Filed Sept. 24, 1921. Serial No. 502,882. 21 Claims. (Cl. 180—80.)



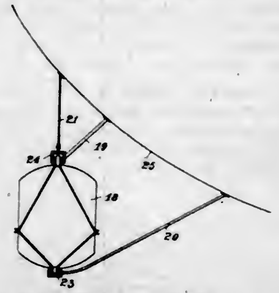
1. In apparatus of the character set forth, the combination with a supporting frame, and a motor thereon, of a motor shaft driven thereby, an axle transversely journaled on the frame substantially concentric to the shaft, and supporting wheels on the axle.

1,474,528. ELECTRICAL WATER HEATER. WILLIAM HURST, Winnipeg, Manitoba, Canada. Filed Dec. 23, 1919. Serial No. 346,855. 4 Claims. (Cl. 219—38.)



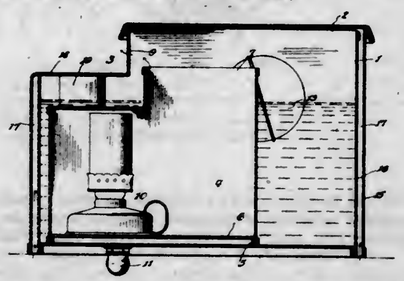
1. The combination with the circulating water cooling water jacketed engine, of an electrical water heater demountably inserted in the system at the inlet to the water jacket and having an inclined position and provided with an offset chamber extending towards the engine and containing the electrical heating element.

1,474,529. AIRCRAFT CAR. PAUL JARAY, Friedrichshafen, Germany, assignor to the Firm Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung, Friedrichshafen, Germany. Filed Oct. 14, 1920. Serial No. 417,064. 5 Claims. (Cl. 244—30.)



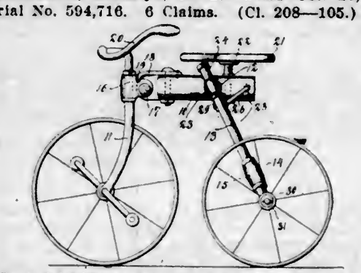
1. In aircraft in combination, a hull, a car connected with said hull so as to be capable of turning about a vertical axis and a cable of variable length extending around part of the wall of said car and attached at one end to the hull for turning said car.

1,474,530. STOCK-WATERING TANK. JAMES W. KIRBY, Harlan, Iowa. Filed Mar. 22, 1922. Serial No. 545,815. 1 Claim. (Cl. 119—73.)



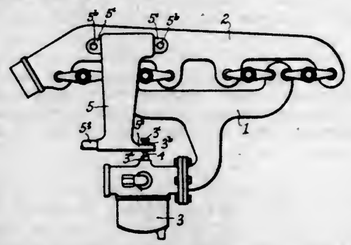
A device for the purpose set forth comprising a tank having a stepped top and furnishing an open water chamber, a spaced casing around the tank and open at top and bottom, a lid fitting over the top opening of said casing, a container removably disposed within said chamber and providing a heater compartment, a roof over the stepped portion of said top, a cut removably fitted in said roof and depending into said chamber, said cup having a valved bottom opening, and constantly open passages adjacent its upper end.

1,474,531. FOLDABLE VELOCIPEDE. CHARLES B. KIRSCHBAUM, Brooklyn, N. Y. Filed Oct. 16, 1922. Serial No. 594,716. 6 Claims. (Cl. 208—105.)



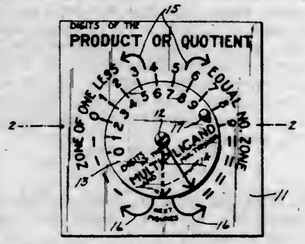
1. In a foldable vehicle of the class set forth, a seat support, a cross head extending transversely thereof, a pair of rear standards pivoted in said cross head, the seat support being movable around the axis of the cross head into the plane of the standards, connections between the seat support and the standards to cause rotation of the latter coincident with the swinging of the seat support, and wheels journaled upon the standards and movable from parallel planes into approximately the same plane coincident with the turning of the standards around their connections with the cross head.

1,474,532. THERMOSTATIC CONTROL MECHANISM FOR CARBURETORS. FRED S. LACK, Paducah, Ky. Filed Sept. 21, 1921. Serial No. 502,278. 2 Claims. (Cl. 123—119.)



1. In a device of the character described, the combination of an internal combustion engine having adjacent intake and exhaust manifolds, a carburetor attached to said intake manifold and having a fuel valve, and a supplemental exhaust member communicating with said exhaust manifold extending to a point adjacent to said carburetor and connected to said fuel valve so that the differential expansion between said supplemental exhaust member and said intake manifold operates said fuel valve.

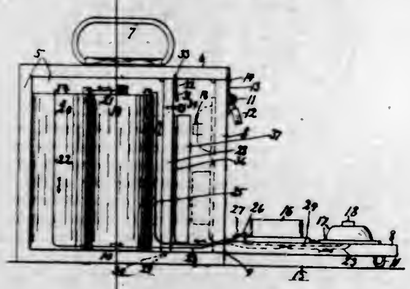
1,474,533. DECIMAL-POINT CALCULATOR. CHARLES E. LATSHAW, Minneapolis, Minn. Filed Aug. 7, 1922. Serial No. 580,124. 5 Claims. (Cl. 235—83.)



3. A decimal point calculator comprising a base, a dial mounted on said base, digits circumferentially spaced on said dial and base, minus and equal indication marks

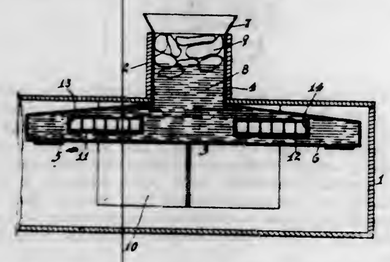
on said base, and a pointer on said dial co-operating with said minus and equal indication marks substantially and for the purposes set forth.

1,474,534. PRACTICING DEVICE FOR LEARNING TELEGRAPH AND RADIO CODES. ALBIN LINDSTEN, White Bear Lake, Minn. Filed Jan. 31, 1923. Serial No. 616,102. 5 Claims. (Cl. 35—16.)



1. In a device of the class described, a cabinet having a door hinged at its bottom end to fold outward to about horizontal position, a source of electricity within the cabinet, a buzzer and a switch with a press button mounted on the normally inward side of said door, and circuit wires connecting the source of electricity with the switch and the buzzer in such a manner that when the button is pressed the buzzer will sound.

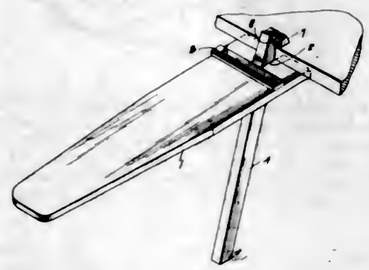
1,474,535. REFRIGERATOR AND ICE MACHINE. HARVEY B. LINDSAY, Oakland, Calif., assignor to The Dry-Zero Corporation, Oakland, Calif., a Corporation of California. Filed Jan. 25, 1922. Serial No. 531,556. 1 Claim. (Cl. 62—31.)



A refrigerator and ice machine comprising a refrigerator body adapted to receive articles of food, a receptacle in the upper part of said body in which is placed brine and ice, a chamber extending through said receptacle and about which the brine circulates and a drawer constructed with a plurality of transverse and longitudinal walls, which drawer when filled with water is introduced in said chamber from the outside of the refrigerator, said drawer having a flange on its outer face adapted to engage the outer surface of the refrigerator, said flange serving as a stop for the drawer and also as an insulating means.

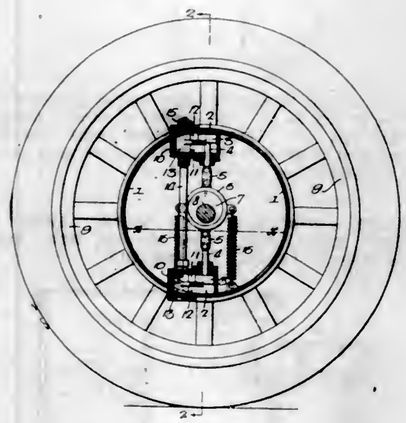
1,474,536. IRONING BOARD. JOHN LUTES, Ferguson, Iowa. Filed Apr. 8, 1920. Serial No. 372,305. 1 Claim. (Cl. 68—10.)

A device of the class described having a board provided with a slot extending inwardly from one end thereof, a prop pivoted to the board and movable in said slot, said prop having a notch in one side thereof below the upper end, a block in said notch whereby it will be overlapped by a portion of the prop and reinforced from above, said block having its under surface movable into parallelism with the board, the block being wider than the prop, the



said surface and adjacent end of the board being adapted to grip a support, and said block being movable beyond the adjacent end of the board to clear the same and enable the prop to be folded flat against the under surface of the board.

1,474,537. BRAKE. ALBERT H. MANWARING, Noble, Pa., assignor of one-half to Roy A. Manwaring, Noble, Pa. Original application filed Dec. 23, 1920, Serial No. 432,748. Divided and this application filed Nov. 22, 1922. Serial No. 602,554. 7 Claims. (Cl. 188—91.)

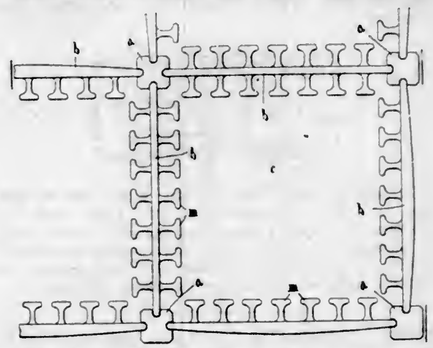


1. The combination in a brake of relatively fixed and rotatable members; a cylinder connected to one of said members; an eccentric connected to the other member; a piston driven by the eccentric and operative in the cylinder; and a yielding connection between the eccentric and the casing.

1,474,538. MEANS FOR BUILDING SUBAQUEOUS STRUCTURES, SUCH AS SEA WALLS, DOCK WALLS, AND RETAINING WALLS, ABOVE AND BELOW WATER, AND THE LIKE. JOHN FREDERICK MATTHEWS, Dover, England. Filed Mar. 10, 1920. Serial No. 364,841. 2 Claims. (Cl. 61—46.)

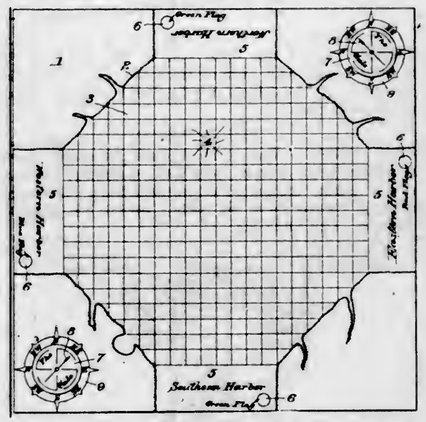
1. A subaqueous structure comprising in combination a plurality of spaced reinforced concrete piles, panels

secured to and connecting adjacent piles so as to form an enclosed space, filling material inserted in such space,



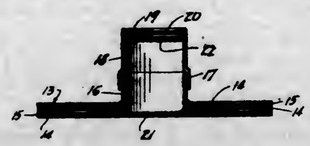
and keying members formed on the panels for the purpose of keying the same to the filling material.

1,474,539. MARINER'S GAME. CHESTER MCKAY, Brooklyn, N. Y. Filed Dec. 9, 1921. Serial No. 521,112. 5 Claims. (Cl. 46—63.)



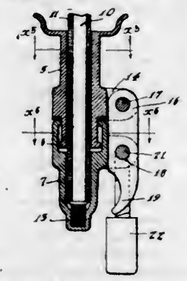
1. The combination with a game-board having a checkered surface, of game-pieces, and an indicator bearing indicia for governing the longitudinal and lateral directions in which the game-pieces are to be moved a predetermined number of spaces.

1,474,540. COMBINED GASKET AND VAPORIZER FOR AUTOMOBILES AND MOTORS. MARTIN T. MCNULTY, Underwood, Minn. Filed Nov. 8, 1922. Serial No. 599,703. 1 Claim. (Cl. 48—180.)



In a combined gasket and vaporizer for automobiles and motors, a gasket adapted for insertion between opposed flanges of an intake manifold and carbureter having an opening of slightly less diameter than the bore of the manifold with which it is adapted to coact, a tube extending into the intake manifold and having its inner end disposed within the bore of the gasket, a second tube having threaded engagement with that end of the first named tube disposed within the intake manifold, screens carried by remote ends of the first and second named tubes, and auxiliary screens loosely disposed within said tubes and during operation of the engine normally held against the screen of the last named tube by the suction created within the manifold.

1,474,541. TIRE LOCK. GUSTAF A. E. MELLIN, Los Angeles, Calif., assignor to Frederick T. Hughes, Los Angeles, Calif. Filed June 22, 1921. Serial No. 479,486. 2 Claims. (Cl. 70—122.)

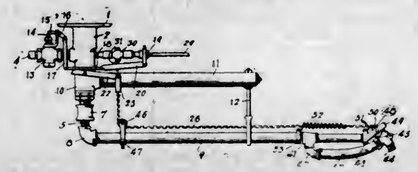


1. In a tire lock, the combination with a tire valve stem, of a tubular body adapted to engage over the valve stem, a member rotatable on the body and having a screw-thread engagement with the valve stem, a pivoted lock lever carried by the body, the rotatable member having relatively spaced ears between which the free end of said lever may engage to prevent rotation of the rotatable member, and means for locking the lever to said ears.

1,474,542. COMPOSITION FOR PRODUCING A LACTIC FOOD OF ESPECIAL DIGESTIBILITY. KARL JOHAN MONRAD, Little Falls, N. Y., assignor to Chr. Hansen's Laboratory, Inc., Little Falls, N. Y., a Corporation of New York. Filed Jan. 9, 1923. Serial No. 611,638. 5 Claims. (Cl. 99—11.)

5. A dry composition for producing a lactic food of especial digestibility, comprising suitably ground and thoroughly mixed granulated sugar, pepsin and calcium hypophosphite in approximate proportion by weight of 100 pounds of granulated sugar, 50 grams of pepsin and 180 grams of calcium hypophosphite, and containing in addition a flavoring ingredient; the dry composition forming a curdling compound which may be mixed in a dry state with milk and which will act as a vigorous agent for the digesting of the casein of the milk after the food product has been eaten.

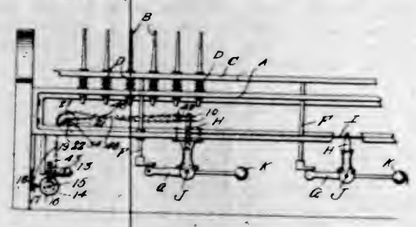
1,474,543. VEHICLE WASHER. EDWARD MULLEB, North Bergen, N. J. Filed Sept. 27, 1919. Serial No. 326,802. 10 Claims. (Cl. 299—81.)



1. In a device of the character described, the combination with a stationary fluid supply valve, a rotary pipe arm, and a discharge tube movable with respect to said pipe arm, of a non-rotary valve-actuating lever having a

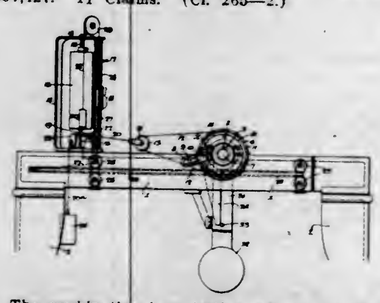
circular portion concentric with the center of movement of the said pipe arm, a rotary operating lever always engaging said circular portion of the valve-actuating lever, and means connecting said operating lever to said movable discharge tube.

1,474,544. MEANS FOR CONTROLLING THE TRAVERSE OF YARN GUIDES ON SPINNING MACHINES. EDWARD E. NOWELL, Manchester, N. H. Filed Dec. 7, 1921. Serial No. 520,626. 5 Claims. (Cl. 242—43.7.)



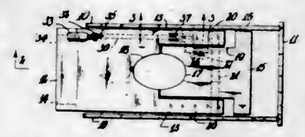
1. In means for controlling the traverse of spinning rings, a ring rail shifter, a builder action, an oscillatable transmission member operatively connected to the shifter, means operated by the builder action for giving an oscillation to the transmission member equal to the amplitude of movement of the building action, a second oscillatable transmission member also operatively connected to the shifter, means for giving a less oscillation to this second named transmission member than to the other transmission member, said means being operatively connected to and driven by the builder action, and means for rendering the second transmission member active and the first transmission member inactive during a predetermined period and then automatically rendering the second transmission member inactive and the first named transmission member active comprising a stop member carried by one of said transmission members and engaging the other transmission member, the other transmission member having a socket to receive said stop member, means yieldingly resisting movement of the transmission member from a neutral position, and means acting as the transmission members are oscillated to cause the stop member to shift little by little out of said socket to thereby detach the transmission members from each other.

1,474,545. TESTING MACHINE. TINIUS OLSEN, Philadelphia, Pa., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 19, 1920. Serial No. 397,427. 11 Claims. (Cl. 265—2.)



1. The combination in a testing machine of two substantially coaxial rotary members mounted one within the other; means for causing said members to cooperate to apply stress to a test specimen; with means for indicating the stress applied to the specimen and the resulting deformation of the latter.

1,474,546. BOOT AND RUBBER-SHOE REMOVING JACK. ANTHONY PAKULSKI, Kingsdale, Minn. Filed May 7, 1923. Serial No. 637,161. 5 Claims. (Cl. 132—5.)



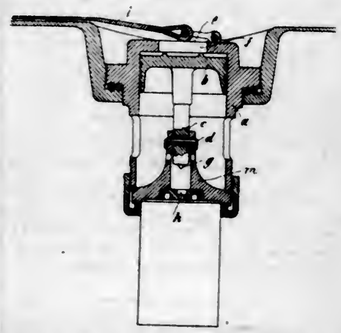
1. A boot-jack comprising a frame, a platform on said frame, and a plate pivoted on said frame and cooperating with said platform to provide a boot gripping element, and means for locking said plate to said platform, a foot pedal on said platform adapted to yieldingly hold said means in operative position.

1,474,547. PLIERS FOR EAR TAGS. ARTHUR A. PANNIER, Salt Lake City, Utah. Filed Nov. 14, 1919. Serial No. 337,922. 25 Claims. (Cl. 128—330.)



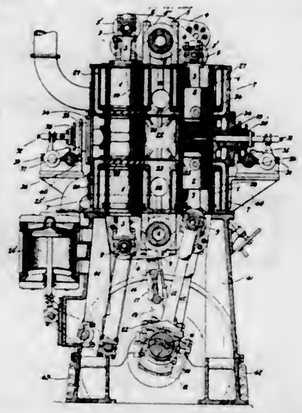
1. In pliers for affixing ear tags having jaws, means for holding an ear tag upon one of the jaws of the pliers, and a cam edge formed upon one of the handles of the pliers for positively moving said holding means to release said tag.

1,474,548. FUSE. MAX CARL AUGUST HERMANN PAPE, Neumuhlen-Dietrichsdorf, near Kiel, Germany, assignor to the Firm Carbonit-Aktiengesellschaft, Hamburg, Germany. Filed Sept. 30, 1920. Serial No. 413,884. 2 Claims. (Cl. 102—3.)



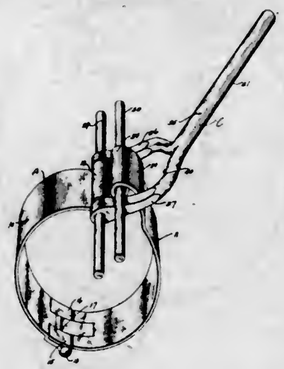
1. A fuse for a depth bomb, comprising a casing, a primer cap, a piston slidable in said casing, said casing having an opening in its end through which to admit water pressure to said piston, a percussion pin fixed to said piston, a stationary pin of predetermined strength engaging said percussion pin and restraining it from movement, said stationary pin being adapted to be sheared off to thereby release said percussion pin when the water pressure upon said piston has reached a predetermined value, said water pressure acting directly upon the piston, a piece of sheet metal normally covering the opening in said casing to prevent the water from exerting its pressure against said piston, and a cable attached to said piece of sheet metal whereby to tear the latter off of said casing when the bomb has reached a predetermined depth.

1,474,549. INTERNAL-COMBUSTION ENGINE. CORNELIS J. H. PENNING, London, England. Filed June 15, 1923. Serial No. 645,686. 8 Claims. (Cl. 123—51.)



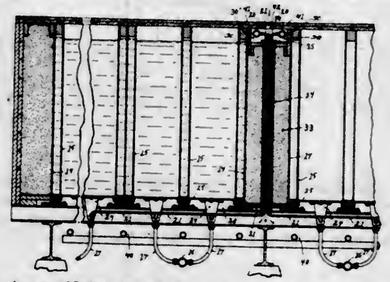
4. A reciprocating engine, wherein the crank shaft is driven by connecting rods of unequal length which connect diagonally opposite ends of opposed rockable arms to a crank pin on a suitably disposed crank shaft, comprising a pair of long connecting rods and a short connecting rod, the said connecting rods engaging the same crank pin, and the long connecting rods being formed in a plurality of parts rigidly interconnected by a yoke member common to both parts of the long connecting rods, the said yoke member being disposed with its lengthwise dimension approximately parallel to the axis of the crank shaft.

1,474,550. CLAMP FOR STOPPING LEAKS ON PIPES. RALPH W. PHILBROOK, Sherman, Calif. Filed Mar. 1, 1923. Serial No. 622,173. 4 Claims. (Cl. 24—20.)



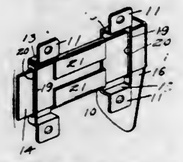
1. A device of the class described comprising a clamping band having one free end thereof provided with an outwardly extending projection transversely apertured and with the other and adjacent end thereof provided with an inwardly extending projection transversely apertured, pins for detachable disposition through said apertures so that the ends thereof extend laterally of the sides of said projections, and a lever detachably and pivotally connected to the outwardly extending ends of one of said pins and adapted to engage the outwardly extending ends of the other of said pins whereby the projections of the ends of said band may be brought into engagement with the ends of the band overlapping to enclose said band, said band when in such position permitting detachment of the pins and lever therefrom.

1,474,551. ARTIFICIAL-ICE-MAKING APPARATUS. HENRY D. POWNALL, Canton, Ohio. Filed Jan. 17, 1922. Serial No. 529,992. 11 Claims. (Cl. 62—159.)



1. An artificial ice making apparatus comprising a plurality of freezing tank units each provided with a plurality of ice molds, a valve controlled main air conduit located above the upper surface of fresh water in said ice mold and located between said freezing tank units, and a plurality of branch air conduits each detachably connected at one end to one of said main air conduits and at its opposite end to the bottom of one of said ice molds so as to be independently detachable and replaceable without disturbing the other branch air conduits and one or more downwardly directed heat-insulated tubular passages interposed between said tank units through which said branch air conduits pass and through which they may be withdrawn or replaced.

1,474,552. WINDOW-SHADE BRACKET. PAUL P. POULER, Waterville, Me. Filed Apr. 7, 1921. Serial No. 459,441. 2 Claims. (Cl. 156—24.)

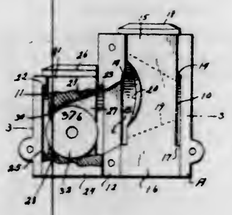


1. A bracket made from a blank, said bracket having a plate at the front thereof, end lips, extending rearwardly from said plate, attaching ears extending rearwardly at the sides of the plate and having their attaching surfaces in substantially the same plane as the rear edges of said lips, said ears having spacing portions of substantially the same width as said lips, said lips having slots therethrough, a bearing member disposed slidably in said slots and out of contact with said spacing portions and in advance of the said plane, and retaining webs at the sides of the plate overlapping said bearing member, in combination with fastening means on the plate operable to frictionally bind said bearing member against said webs.

1,474,553. MINER'S TICKET BOX. SAMUEL T. PRATT, Nanticoke, Pa., assignor of one-fourth to Michael J. McDonald and one-fourth to Anthony V. McDonald, both of Nanticoke, Pa. Filed May 16, 1923. Serial No. 639,351. 6 Claims. (Cl. 40—15.)

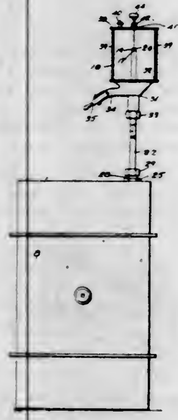
1. A check holder for mine cars comprising a body formed to provide two chambers and a check passage connecting the chambers, a shiftable carrier mounted in each chamber and partly withdrawable from the

chamber, each carrier having a check slot, one of the carriers being withdrawable to an extent permitting the insertion or removal of the check from the slot



and the other carrier being prevented from being withdrawn to an extent which will permit the removal of the check therefrom, the last named carrier having an observation opening whereby the check may be observed.

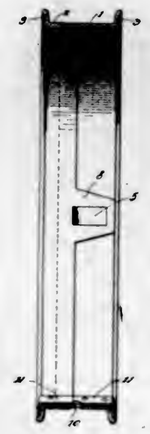
1,474,554. MEASURING AND DISPENSING DEVICE FOR LIQUIDS. STEPHEN C. PRICE, Louisiana, Mo. Filed Oct. 10, 1921. Serial No. 506,703. 2 Claims. (Cl. 221—100.)



1. A liquid dispensing and measuring device comprising a liquid container, a pipe projecting therein, a second pipe secured around the upper portion of said first mentioned pipe, and of larger diameter, its lower end opening into the liquid container, a dispensing and measuring chamber adjustably secured on the upper portion of said second mentioned pipe, a pumping device secured in the first mentioned pipe, said second mentioned pipe adapted to act as an overflow for the liquid in the dispensing and measuring chamber when a predetermined liquid level has been reached therein.

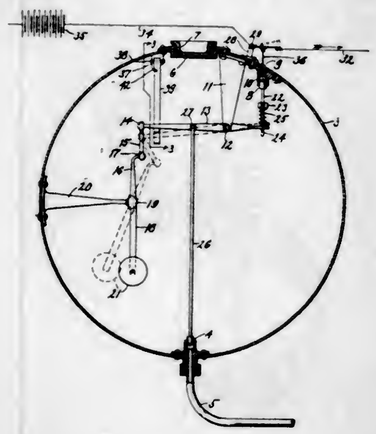
1,474,555. SEPARABLE RIM. ADOLPH B. ROGNLIE, Shelly, Minn. Filed June 30, 1922. Serial No. 571,900. 1 Claim. (Cl. 301—35.)

A separable rim comprising circular bands adapted to fit together with their inner edges overlapping and their outer surfaces flush throughout their extent, the overlapping band being provided at intervals with longitudinally disposed slots, transversely disposed locking lugs on the inner circumference of said band having their outer ends disposed immediately adjacent said slots, and



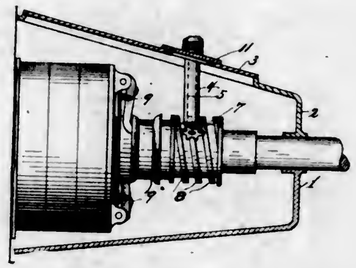
resilient locking tongues projecting from the inner edge of the overlapped band and provided with slots to receive said lugs.

1,474,556. AUTOMATIC SHUT-OFF VALVE FOR FUEL TANKS. POMEROY D. SACKETT, St. Paul, Minn. Filed Oct. 5, 1922. Serial No. 592,668. 4 Claims. (Cl. 158—46.)



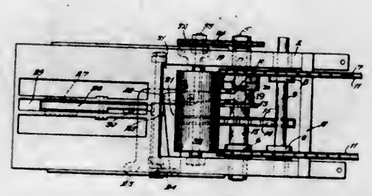
1. The combination with a fuel tank having an outlet valve and a vent valve of a mechanism automatically closing said valves whenever the tank is tilted to a certain degree out of its normal position, and an electric circuit arranged to carry electric current to spark plugs in an engine receiving fuel from said tank, an electric switch in the circuit and operative connection between the valve closing mechanism and the switch, whereby the circuit is broken simultaneously with the closing of the valves.

1,474,557. DRIVE MECHANISM FOR SPEEDOMETERS. EARL T. SCHAVEY, Grand Ledge, Mich. Filed Jan. 18, 1923. Serial No. 613,555. 5 Claims. (Cl. 74—7.)



2. The combination with a driving shaft, a clutch thereon, and a spring coiled upon said shaft for operating said clutch, a pinion intermeshing with said spring, a speedometer and a flexible shaft operatively connecting said speedometer and pinion.

1,474,558. DRIVE AND TRIP MECHANISM FOR CONVEYERS. BRONSON C. SKINNER, Dunedin, Fla., assignor to Skinner Machinery Company, Dunedin, Fla., a Corporation of Florida. Filed June 14, 1920. Serial No. 388,927. 1 Claim. (Cl. 198—232.)

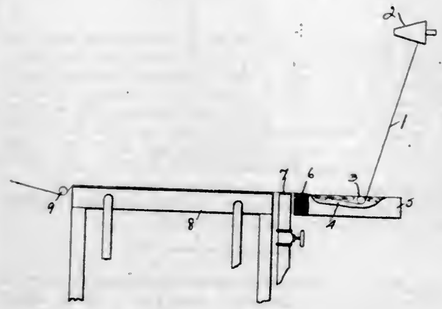


An apparatus for the described purpose comprising a frame having side bars and a top surface, the top surface being formed with an opening at one end, an endless conveyer consisting of spaced flexible members moving onto said frame top surface at one end and passing downwardly through the opening therein, a driven shaft disposed transversely of the apparatus beneath said top and carried by said side bars, sprockets on said shaft within said frame for driving the flexible members and around which the same pass, idler sprockets within said top opening and downwardly over which said flexible members pass, a driven sprocket loose on said shaft intermediate said conveyer sprockets and held from longitudinal movement thereon, a clutch on said shaft for connecting said driven sprocket and shaft to rotate together, a bell crank for operating said clutch, a trip lever projecting above the top of said frame and for actuation by the weight of a receptacle thereon delivered onto the frame top by said conveyers for operating said bell crank to interrupt the connection between said shaft and driven sprocket, a connection between said bell crank and lever, and a transfer roller disposed transversely of the rear end of said top opening in advance of said trip lever and driven from said shaft for transferring receptacles from said flexible members onto the solid portion of said top and onto said trip lever.

1,474,559. HEAT-INSULATING MATERIAL. HERBERT M. SMITH, Great Barrington, Mass., assignor to Stanley Insulating Company, Great Barrington, Mass., a Corporation of Maine. Filed Sept. 30, 1918. Serial No. 256,286. 6 Claims. (Cl. 106—18.)

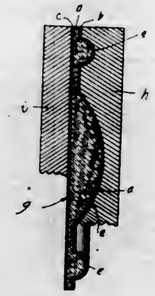
1. A finely divided heat-insulating material comprising a mixture of gas-absorbing material and an inert material, with the latter preponderating in the proportion of about seven to one.

1,474,560. METHOD FOR THE TREATMENT OF ARTIFICIAL SILK. CHARLES A. SNYDER, Philadelphia, Pa. Original application filed Sept. 3, 1921, Serial No. 498,437. Divided and this application filed Dec. 21, 1921, Serial No. 523,934. Renewed Apr. 14, 1923. 3 Claims. (Cl. 18—54.)



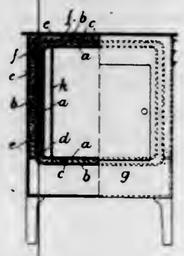
3. The process of finishing artificial silk thread consisting of passing the thread through a bath of water containing a saponified fat and vegetable oil, then smoothing down the surface fiber, then removing the surface liquid and then drying the thread to set said fiber.

1,474,561. RELIEF AND TRANSPARENCY OF PLASTIC MATERIAL. FREDERICK J. SONNEKES, Portland, Oreg., assignor to Everett P. Babcock, Portland, Oreg. Filed Mar. 16, 1922. Serial No. 544,305. 3 Claims. (Cl. 40—136.)



1. A transparency of the character described, comprising two thin sheets of tenacious, translucent material, constituting the outer faces of the transparency, and a layer of translucent plastic material between said sheets, forming thereby a unitary, translucent body, the body being impressed to form the relief surfaces producing the design represented by the transparency.

1,474,562. COMBINED ELECTRIC COOKER AND WATER-HEATER APPARATUS. THOMAS REGINALD STANCOMBE, Bristol, England. Filed Aug. 6, 1923. Serial No. 656,059. 2 Claims. (Cl. 219—35.)



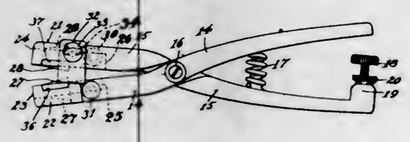
1. A cooking and water heating apparatus of the kind described comprising a cooking chamber normally closed and having its walls of heat conducting material, said cooking chamber being adapted to be heated from its interior, a jacket surrounding and enclosing the walls of the cooking chamber and being spaced from the latter providing a closed water chamber having inlet and outlet openings, whereby the water in said latter chamber is heated from the heat within the cooking chamber, an auxiliary heater in the water chamber, and heat insulating material exterior of said jacket.

1,474,563. HOLDER FOR NONSKID CHAINS. HARNEY G. STEELE, Johnstown, Pa. Filed Feb. 3, 1923. Serial No. 616,751. 6 Claims. (Cl. 152—14.)



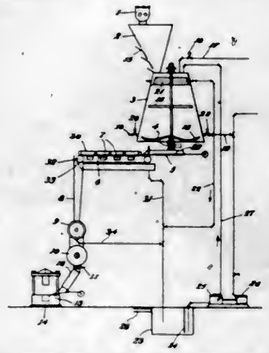
1. An anti-skid chain-holding device for vehicle wheels including an annulus convoluted parallel to its axis and transversely of its circumference, certain of the convolutions being formed to embrace the spokes of the wheel and certain of the convolutions being adapted to receive the ends of anti-skid cross chains.

1,474,564. SAW SET. LORENZ REINER and FRANK RIENER, Deer Park, Ohio. Filed Aug. 16, 1920. Serial No. 403,931. 3 Claims. (Cl. 76—61.)



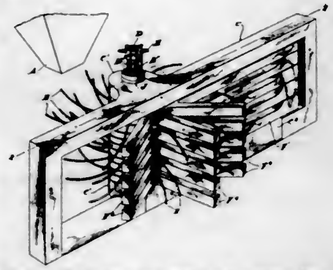
1. A saw-set comprising a pair of jaws movable within prescribed limits to and from each other, a pair of gars detachably mounted relative to said jaws and each provided with an inclined saw setting tooth projecting outwardly from a plane face arranged in staggered relation to each other and arranged to engage adjacent teeth of a saw to set the saw teeth respectively in opposite directions.

1,474,565. MEANS FOR PRODUCING COMPOSITION ARTICLES. CLARENCE R. ROBINSON, Brooklyn, N. Y. Filed June 6, 1921. Serial No. 475,532. 2 Claims. (Cl. 92—54.)



1. In an apparatus for the production of composition articles, comprising a process tank, a sluice box for receiving the substance from the process tank, an agitator in said sluice box, and fluid removing means arranged and adapted to receive the substance from said sluice box and extracting fluid content therefrom.

1,474,566. APPARATUS FOR SEPARATING FIBROUS AND NONFIBROUS MATERIALS IN FOOD PRODUCTS. GEORGE G. SCHORER, North Freedom, Wis. Filed Aug. 29, 1921. Serial No. 496,761. 10 Claims. (Cl. 130—18.)



1. In mechanism for separating inedible fibrous materials from edible portions of a flowing stream of corn or like material, the combination of a rotatable shaft, a plurality of slender superimposed arms radiating therefrom and adapted to be moved rapidly and successively through and across said stream, and stationary means past which said arms move after having passed through said stream for mechanically removing the material clinging to said arms.

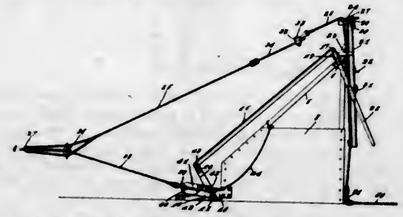
1,474,567. ESTER OF SUBSTITUTED AMINO PROPYL ALCOHOL. WERNER SCHULEMANN, Vohwinkel, LUDWIG SCHÜTZ and KURT MEISENBURG, Elberfeld, Germany, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Filed Dec. 1, 1922. Serial No. 604,399. 2 Claims. (Cl. 280—105.)

1. The herein described new esters of alkamines having most probably the following general formula:

$$R_2N\text{—}CH_2\text{—}\underset{R}{CH}\text{—}\underset{R}{CH}\text{—}CH.OH$$

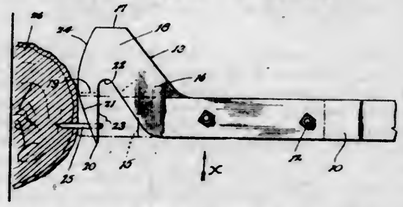
(R meaning an alkyl), with an aromatic amino carboxylic acid, which aminoesters have anæsthetic properties; being generally amorphous solid products crystallising from ligroin, forming crystallized salts with acids which retain the valuable therapeutic properties of the esters, these salts being soluble in water and are free from any irritating action, substantially as described.

1,474,568. SHOVEL. GEORGE H. SYLVESTER and ANDREW C. SYLVESTER, Cary Station, Ill. Filed Oct. 6, 1922. Serial No. 592,765. 9 Claims. (Cl. 37—115.)



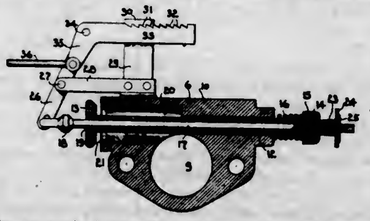
1. In a scoop shovel, a body portion, a pivoted blade supported adjacent to the forward edge of the body portion, pivoted hook members having connection with the body portion, power cables having connection with the hook members to draw the shovel through the ground surface, cables extending over the body portion, means for supporting the cables above the body portion, means for releasing the power cables to direct the pull to the last mentioned cables to cause the body portion to dump the contents thereof.

1,474,569. STAPLE-PULLING IMPLEMENT. ROY L. WADLEIGH, Luverne, Iowa. Filed Apr. 12, 1922. Serial No. 551,907. 1 Claim. (Cl. 254—28.)



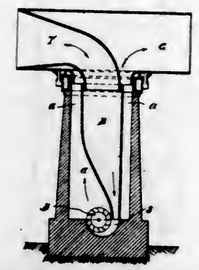
A staple puller having a handle, a head rigidly and permanently secured on the handle and provided with a bill, said bill having a straight inner edge and an outer edge tapering from the point of the bill and in the length direction thereof terminating in a broad square base at the opposite side of the head, a goose-neck connecting said head with said handle; the forward end of the handle terminating in a heel spaced transversely to the plane of said bill and providing a fulcrum for the same when the handle is rocked transversely to the said plane.

1,474,570. GAS SAVER AND COASTER BRAKE. THOMAS R. WATSON, Monterey, Calif. Filed Oct. 6, 1921. Serial No. 505,958. 9 Claims. (Cl. 277—20.)



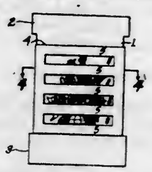
1. In an explosion engine, means for diluting the propelling charges with air to economize fuel, comprising a passage between the atmosphere and the intake manifold of the engine, a valve in the passage, said valve having a port therethrough, and another valve associated with the port, the first named valve being timed to open later and to a greater extent than the last named valve, whereby to direct so large a quantity of air to the engine cylinders as to neutralize the explosiveness of the charge and convert the engine into an air pump for braking purposes.

1,474,571. REACTION TURBINE FOR WATER, WIND, STEAM, ETC. FRANS HENRIK AUBERT WIELGOLASKI, Christiania, Norway. Filed Sept. 3, 1919. Serial No. 321,314. 4 Claims. (Cl. 170—5.)



1. In combination, a turbine wheel comprising a plurality of curved blades arranged in an annular series around the circumference of the wheel, the spaces between certain of the blades at one side of the wheel being in communication by a passage through the wheel with the spaces between certain of the blades at the opposite side of the wheel, a conduit for the motive fluid and in which the wheel is mounted, and means dividing the conduit into an inlet side and an outlet side, the turbine wheel being mounted in said conduit with its axis of rotation in substantially the same horizontal plane as the fluid bed at the lower pressure side.

1,474,572. CHANGEABLE-PICTURE DEVICE. OTTO M. WHITSTOCK, New York, N. Y. Filed May 18, 1921. Serial No. 470,654. 2 Claims. (Cl. 46—37.)

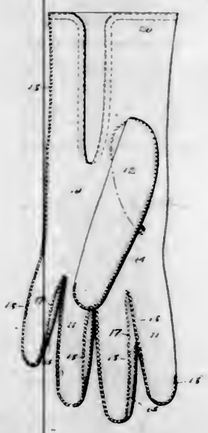


1. In a device of the character described, a plurality of pieces shiftably connected, one piece having thereon pictorial illustrations of different natures in sections, the sections of one illustration alternating with the sections of the other illustrations, said piece having a wider top and bottom portion and a narrower central portion, and a second piece formed with slots and bars whereby either set of sections of a kind may be exposed through said slots presenting a comparatively complete illustration, while the other set of sections of a kind is concealed by said bars, said second piece forming a complete loop about said first piece in its narrower portion and being short enough to permit its sliding, first to expose one illustration and then another.

1,474,573. GLOVE. CLARENCE H. WILKES, Gloversville, N. Y., assignor to Lock-Edge Machine Corporation, Gloversville, N. Y., a Corporation of New York. Filed Nov. 20, 1922. Serial No. 602,232. 4 Claims. (Cl. 2—9.)

1. A glove characterized by the finger closing seam being flat and formed by two independent rows of stitch-

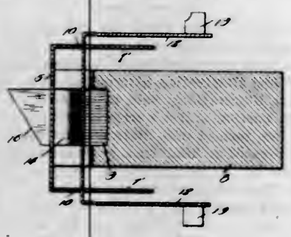
ing and a cover thread, said independent rows of stitching as they appear on the inside of the glove being in stitches positioned longitudinally only of the seam and said cover thread being positioned on the outside of the glove only and crossing the raw edge of the outer lap of the material as said cover thread passes alternately from one of said independent rows of stitching to the other, whereby a seam is formed having no stitching on the inside surface of the glove positioned transversely to the line of the seam.



1,474,574. PROTECTING FABRIC AGAINST ROT. BERNARD WOLCOTT, Buffalo, N. Y., and CLAY L. JENNISON, Washington, D. C. Filed Dec. 10, 1921. Serial No. 521,470. 4 Claims. (Cl. 8—5.)

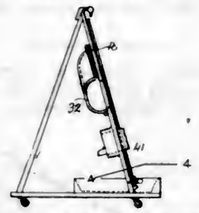
1. A cellulosic material consisting of yarn or fabric, resistant to rot and bacteria, and having the characteristics of the product such as is produced by first mercerizing the yarn or fabric and then subjecting the fabric or yarn to an esterifying treatment sufficient to produce only low cellulosic esters.

1,474,575. GATE LATCH. MARK AINSWORTH, Kansas City, Mo. Filed Nov. 7, 1922. Serial No. 599,542. 2 Claims. (Cl. 292—202.)



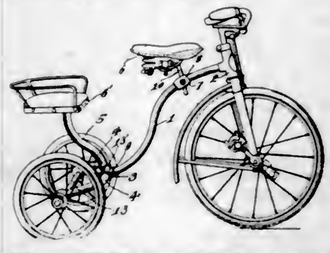
1. A latch member including a body portion, an inwardly extended member stamped from the body portion, rearwardly extending arms formed integral with the body portion and having notches formed in the upper edges thereof, said body portion having an opening, a latch member including a bar and rearwardly extending arms, and said arms adapted to overbalance the latch member to cause the latch member to extend through the opening in the body portion.

1,474,576. THEATRICAL DEVICE. FRANK A. BEARD, Columbus, Ohio. Filed June 27, 1922. Serial No. 571,184. 11 Claims. (Cl. 46—70.)



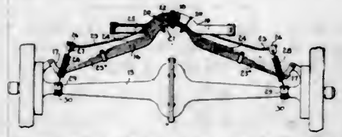
1. A stage setting of the character described including a portable supporting frame, a scenic panel held in an upwardly and rearwardly inclined position in the frame, means for discharging a film of water downwardly over said panel, and a second panel shiftable laterally across the first panel within and concealed by said water film.

1,474,577. TOY VEHICLE. JAMES FRANK BOBBITT, Greenwood, Miss. Filed Mar. 29, 1922. Serial No. 547,852. 1 Claim. (Cl. 208—113.)



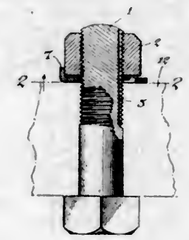
A tricycle comprising in combination a substantially S-shaped frame bar secured at its front end to a steering head and at its rear end to a four way junction member, laterally and rearwardly extending arcuate members secured by their front ends to said junction member and at their rear ends to the rear axle, and an auxiliary seat supported by a substantially S-shaped rearwardly inclined bar adapted to be removably secured to said junction member so that the seat is secured substantially above the rear axle of the vehicle, said S-shaped frame bar being so arranged as to conform to the curve of the front wheel and to permit ready access to the auxiliary seat to permit the occupant of the auxiliary seat to use said laterally extending arcuate members as foot rests, substantially as specified.

1,474,578. SHOCK ABSORBER. HAMP CROWLEY, Valdosta, Ga. Filed Apr. 11, 1922. Serial No. 551,458. 4 Claims. (Cl. 267—29.)



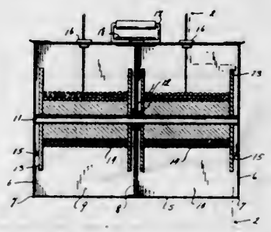
1. In combination, a vehicle spring and a shock absorber comprising a spring leaf secured to the center of the vehicle spring and spaced from the same except at the point of attachment, a pair of U-shaped brackets having their intermediate portions secured transversely to the respective ends of the spring leaf and with their legs depending, collars secured to the axle of the vehicle and having upstanding ears opposed to the legs of the brackets, each of said ears being connected to the corresponding leg by a coiled spring, said coiled springs straddling the aforementioned vehicle spring.

1,474,579. NUT LOCK. JAMES F. COMLY, New Lexington, Ohio, assignor to Ella P. Comly, New Lexington, Ohio. Filed Aug. 1, 1922. Serial No. 579,014. 2 Claims. (Cl. 151—2.)



1. The combination with a bolt having a threaded portion provided with longitudinally disposed grooves, and a polygonal nut threaded upon the bolt of a locking washer to lie between the nut and a cooperative surface, the washer having a resilient arcuate portion shaped to embrace the bolt and provided at its free end with an inwardly projecting tooth capable of removably engaging one of said grooves, and a lug struck up from the outer periphery of the washer opposite said tooth and at such a diametrical distance therefrom as to bear against one of the faces of the nut, the resilience of said arcuate portion permitting said lug to yield and snap across the successive angles on the outer periphery of the nut as it is rotated on the bolt.

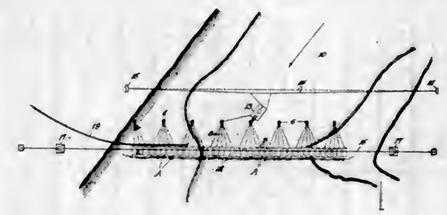
1,474,580. ELECTRIC-WIRING MACHINE. GEORGE L. CLARK and CLARENCE H. TIBADO, Norfolk, Nebr. Filed Feb. 19, 1923. Serial No. 620,107. 6 Claims. (Cl 242—137.)



1. In a wiring machine of the class described, a rectangular casing having hinged end doors and provided with a central transverse partition lying parallel with the doors when closed, said partition dividing the casing into a pair of adjacent compartments to which access may be had upon opening of said end doors, a horizontal spindle arranged centrally and longitudinally of the casing with its central portion passing through the partition and adapted for the reception of spools of wire upon the ends thereof so that one spool of wire will be located in each compartment, and friction brake elements carried by the end doors arranged to bear against the adjacent ends of the spools when said doors are closed for preventing turning of the spools too freely upon the spindle, said casing having outlet openings for the wire from each spool.

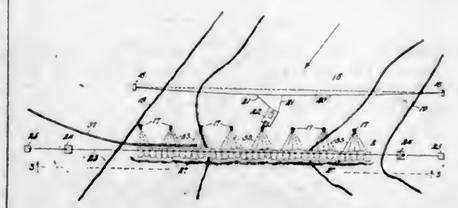
1,474,581. CONSTRUCTION OF DAMS. FREDERICK N. CRONHOLM, Andrade, Calif. Filed Apr. 21, 1921. Serial No. 463,141. 3 Claims. (Cl. 61—33.)

1. In dam construction, wedge-shaped dam elements, anchoring means in upstream spaced relation to the dam site, and connections from the anchoring means to each wedge-shaped element connected to the upper surface of



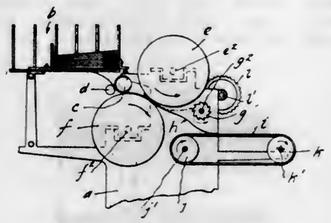
the latter intermediate of its length, with the thin end of the wedge directed upstream.

1,474,582. CONSTRUCTION OF DAMS AND METHOD OF BUILDING SAME. FREDERICK N. CRONHOLM, Los Angeles, Calif. Filed Mar. 14, 1922. Serial No. 543,707. 10 Claims. (Cl. 61—33.)



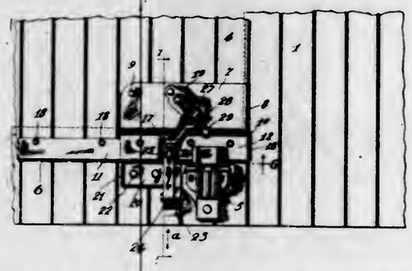
1. The method of constructing dams in flowing streams, from dam elements having at least one flat face and which are buoyant at the time the dam is constructed, which consists in anchoring said elements in the stream against participation in the flow of the stream, and manipulating said elements so that the current strikes said flat faces at an angle and causes the upstream ends of the elements to be depressed thereby increasing the resultant of forces due to the flow of the water acting against the upper faces of the elements, whereby said elements sink to the bottom of the stream and remain there without the necessity of ballast being added thereto.

1,474,583. STRIPPER WHEEL. JAMES DUVALL, Camas, Wash. Filed Apr. 27, 1922. Serial No. 556,874. 4 Claims. (Cl. 271—80.)



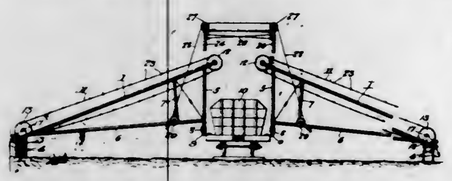
1. In combination with a printing press having a rotary cylinder, of means for stripping the printed article from the latter consisting of one or more toothed wheels located adjacent said cylinder and driven in the same direction, the teeth of said wheel being of ratchet type inclined in the direction of rotation of the wheel, whereby the end of the article is pulled from said cylinder and thrown at a tangent downward therefrom.

1,474,584. FREIGHT-CAR-DOOR LOCK. GEORGE H. FAHRENBRUCH, Omaha, Nebr. Filed Dec. 16, 1921. Serial No. 522,774. 10 Claims. (Cl. 292—284.)



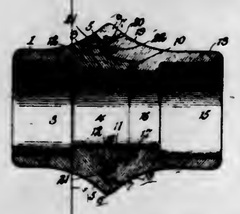
1. A lock comprising two plates one of which is provided with a pocket and a hasp member, and the other of which is provided with a pivotal arm adapted to be swung upwardly towards said first mentioned plate into said pocket, and a latch secured to said arm and to be swung over the said hasp member.

1,474,585. CANE-LOADING APPARATUS. JOSEPH FRITSCHI and WILLIAM P. HUGHES, Honolulu, Territory of Hawaii. Filed Sept. 14, 1921. Serial No. 500,491. 10 Claims. (Cl. 214—41.)



5. In a loading apparatus, the combination with a loading car, of oppositely disposed inclined conveyors adapted to be positioned each side of said car, wheels carried by the elevated end of each conveyor, tracks secured along each side of said car upon which said wheels are movably supported, means for supporting the lower outer ends of said conveyors, uprights secured to and extending above the elevated ends of each conveyor, winding cables connecting the uprights of the oppositely disposed conveyors for raising the lower ends thereof, and independent motors for operating each conveyor.

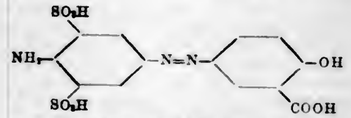
1,474,586. HOSE COUPLING. JOHN H. HANRAHAN, Guilford, Conn. Filed Jan. 14, 1922. Serial No. 529,302. 4 Claims. (Cl. 285—175.)



1. A coupling comprising a pair of opposed, coacting sleeves having similar outstanding, integral arcuate enlargements located at their abutting ends and arranged in pairs diametrically opposite each other, one pair of enlargements carried by one of the sleeves having dovetailed channels open at the front and at one end and terminating at the other end in an abutment wall, the other pair of enlargements carried by the other sleeve having longitudinally projecting, arcuate, dove-tailed projections adapted to enter the opposite, open ends of the said dovetail channels of the other member and upon relative rotary motion to abut against said end walls and arrest the rotary motion and lock the members together, said members having interfitting annular ribs and channels with uniformly tapered engaging surfaces to prevent leakage.

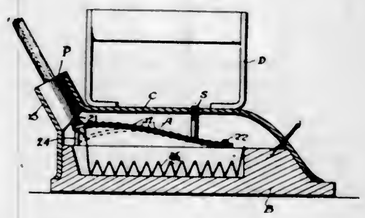
1,474,587. AZO DYESTUFFS. CARL HEIDENREICH, Leverkusen, near Cologne-on-the-Rhine, Germany, assignor to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Filed Apr. 17, 1922. Serial No. 553,984. 2 Claims. (Cl. 260—97.)

2. The herein described new azodye derived from diazotized para-phenylene-diamin-2.6 disulfonic acid and salicylic acid having in a free state most probably the formula:



which is after being dried and pulverized a yellow to dark violet powder soluble in water with a yellowish coloration; yielding upon reduction with tin and hydrochloric acid para-phenylene-diamin-2.6 disulfonic acid and para-salicylic acid; dyeing chromed cotton yellow shades fast to soap and to chlorin substantially as described.

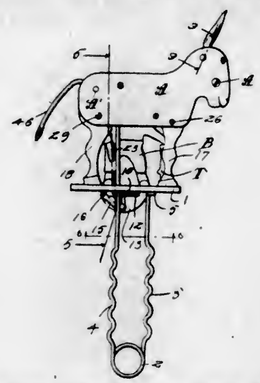
1,474,588. THERMOSTATIC SWITCH FOR FLAT-IRONS. RUSSELL DICK HETRICK, Indiana, Pa. Filed Mar. 11, 1921. Serial No. 451,645. 2 Claims. (Cl. 219—25.)



1. In an electric flat iron including a cover having a socket formed therein, a thermostatic switch comprising, a plug insertable in said socket and carrying a contact, an arm formed of strips of metal having different co-efficients of expansion, and a contact supported on and insulated from said arm, said arm being secured to the iron adjacent the heating coils thereof and flexed to cause the contact sustained thereon to normally engage the contact of said plug.

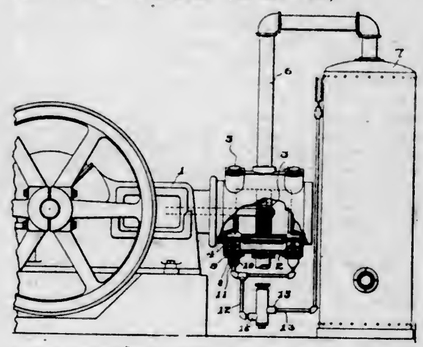
1,474,589. TOY. JOHN K. HODDINOTT, Baltimore, Md., assignor of one-half to John F. Hoddinott, Baltimore, Md. Filed Dec. 5, 1921. Serial No. 519,991. 4 Claims. (Cl. 46—40.)

1. A figure toy comprising a platform, an articulate animal figure pivotally mounted on said platform, a figure stationary on said platform and having a movable arm, a compressible handle member, one portion of said handle member being rigid with said platform, the other portion of said handle member extending through and adapted to operate in said platform, and means controlled by said second mentioned portion of the handle to simultaneously operate said arm of said second figure



and cause pivotal movement of the animal figure on said platform and articulate movement of parts of the animal figure.

1,474,590. CONTROLLING MECHANISM FOR COMPRESSORS. FRED D. HOLDSWORTH, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 27, 1917. Serial No. 165,006. 19 Claims. (Cl. 230—24.)

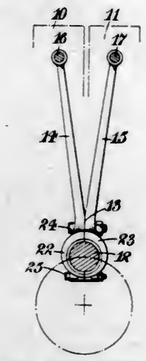


1. The combination with a compressor, of a fluid operated unloading mechanism, and controlling means therefor for varying the exhaust therefrom without interrupting it.

14. In a compressor controlling mechanism, in combination, a compressor, one or more inlet valves therefor, a receiver connected to said compressor, a connection between said receiver and said valves, pressure actuated valve actuating mechanism disposed in said connection, a valve mechanism normally closing said connection and responsive to variations in receiver pressure, and a cooperating valve mechanism responsive to receiver pressure upon opening of said first mentioned controlling valve mechanism and operable after closure thereof and a predetermined drop in pressure in a portion of said connection leading to said actuating mechanism to open a free communication longitudinally of said valve between said portion and the atmosphere.

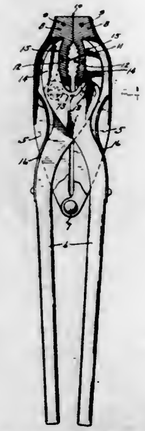
17. In a compressor controlling mechanism, in combination, a compressor, one or more inlet valves therefor, a receiver connected to said compressor, a connection between said receiver and said valves, pressure actuated mechanism disposed in said connection for actuating said inlet valves, means forming a port in said connection, a valve responsive to variations in receiver pressure controlling communication through said port, and a cooperating valve mechanism forming a constant communication with the atmosphere and disposed on the opposite side of said port and responsive to receiver pressure upon opening of said first mentioned controlling valve and operable upon a predetermined drop in pressure in a portion of said connection after closure of said first named controlling valve to open, without closure of said first mentioned communication, free communication between said inlet valve actuating mechanism and the atmosphere.

1,474,591. CONNECTING ROD AND THE COOPERATING PARTS OF ENGINES, PUMPS, AND THE LIKE. LESLIE HAYWOOD HOUNSFIELD, Croydon, England. Filed Jan. 6, 1923. Serial No. 611,035. 9 Claims. (Cl. 74—17.)



1. In reciprocating engines, pumps and the like, the combination of two separately movable members mounted to reciprocate side by side, a crank shaft embodying a single crank pin appropriated to both said members, which latter vary their proximity to each other during their reciprocation, and a connecting rod in the form of a single unit extending from the crank pin to both said members, said connecting rod unit being constructed without a pivotal joint in its internal structure and accommodating, by its own elastic flexure, the said variations in the proximity of the two members to each other.

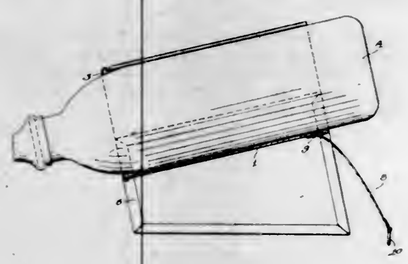
1,474,592. PLIERS. VENNIE JACOBY, Fulda, Minn., assignor to George Browning, Park Rapids, Minn. Filed July 29, 1922. Serial No. 578,437. 7 Claims. (Cl. 294—48.)



1. A pair of pliers comprising a pair of pivotally connected jaws, and a pair of handles, one of said handles

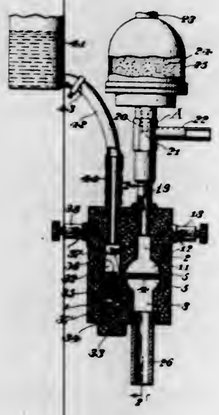
being pivoted to one of said jaws and having a claw engageable with a cam surface on the other jaw for closing the jaws.

1,474,593. NURSING-BOTTLE HOLDER. ELLA D. JENNINGS, Avon, N. Y. Filed Feb. 2, 1922. Serial No. 533,543. 1 Claim. (Cl. 248—65.)



A bottle holder comprising a tubular portion formed from sheet metal rolled into tubular form and having its edges separated to provide a slit, one edge of the sheet metal at one end of the tube being turned inwardly to provide a flange which tends to maintain the tubular form of the tube, while permitting the latter to expand slightly in order that it may resiliently engage the walls of the bottle, and supporting legs for said tube, said legs gradually increasing in length from the flanged end of the tube and being adapted to be separated at their lower edges so that the tube may be supported at different heights.

1,474,594. METHOD OF AND APPARATUS FOR OBTAINING ION CONCENTRATION EFFECTS. EARL A. KEELER, Norristown, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 1, 1922. Serial No. 557,597. 34 Claims. (Cl. 204—5.)



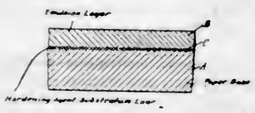
1. The method of maintaining a gas electrode for producing an effect dependent upon the concentration of an ion of an electrolyte, which consists in mixing with the electrolyte the concentration of an ion whereof is involved a gas suited to the ion whose concetnration is involved, and passing the mixture in contact with an electrode.

1,474,595. PENCIL. CHARLES R. KEERAN, Chicago, Ill., assignor, by mesne assignments, to Autopoint Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 23, 1920. Serial No. 405,218. 4 Claims. (Cl. 120—18.)



2. A pencil having a hollow casing for its body, a tube arranged longitudinally therewithin, there being an annular space between the tube and casing, and means subdividing said space comprising a plurality of sheet metal partition members, each formed to present two walls extending radially from the casing to the tube and bent upon themselves and then connected by an arc-shaped wall which lies adjacent the tube but spaced therefrom sufficiently to present its outer face from the casing wall a radial distance substantially equal to the diameter of a reserve lead to be accommodated within the subdivided space, the radial walls of the partition member being spring pressed against one another so as to remain in place of their own accord, substantially as described.

1,474,596. PHOTOGRAPHIC TRANSFER PAPER AND PROCESS OF MAKING SAME. FRANK WILLIAM KENT, Streatham Hill, London, England. Filed Feb. 8, 1921. Serial No. 443,412. 10 Claims. (Cl. 95—8.)



1. A process for preparing a photographic transfer film, which consists in applying to a suitable base a substratum comprising as its main ingredient an emulsion hardening agent in active condition and in coating the said substratum when in its dry condition with a sensitive emulsion.

1,474,597. INDUCTION COIL. ARTHUR ATWATER KENT, Ardmore, Pa. Filed June 25, 1921. Serial No. 480,316. 15 Claims. (Cl. 175—360.)

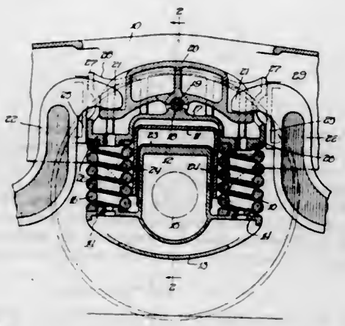
2. Induction coil structure comprising a core consisting of a bundle of substantially parallel wires, primary and secondary windings, a connection from said secondary winding to said core, a member of insulating material, a secondary terminal carried thereby and having a perforation, and means for connecting said terminal with said secondary winding comprising a conducting member carried by and contacting with said terminal and projecting through said perforation into and terminating in said core between the wires thereof and contacting with said wires.



9. Induction coil structure comprising an inner core, a secondary winding surrounding said core, a primary winding surrounding said secondary winding, an enclosing casing, said core and windings disposed eccentrically within said casing with said primary winding closely approaching said casing on one side whereby there is left a space of crescent form between said primary winding and said casing, and an external core comprising substantially parallel wires disposed in and substantially filling said space.

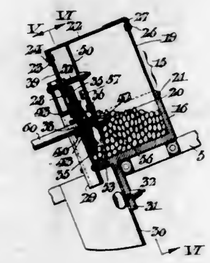
15. Induction coil structure comprising a metallic casing, a core, a secondary winding surrounding said core, a primary winding surrounding said secondary winding, an external core between said primary winding and said casing and in contact with said casing, and heat radiating structure upon the exterior of said casing and disposed at least in part between the ends of said external core.

1,474,598. RAILWAY-CAR-TRUCK CONSTRUCTION. JOHN A. LAMONT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed July 18, 1921. Serial No. 485,431. 4 Claims. (Cl. 105—194.)



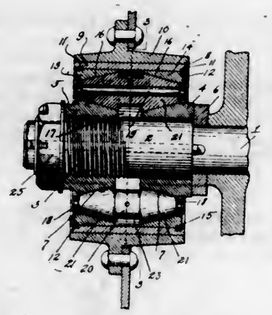
1. In a six-wheel truck, the combination of a side frame having an opening formed by walls for the reception of a journal box, a journal box mounted in said opening and guided in its relative movements with respect to said side frame by said walls, springs carried by said journal box, and a spring cap bridging said springs and being guided in its relative movements with respect to said side frame by said same guide walls.

1,474,599. SEED-SOWING DEVICE. PERRY S. MARTIN, Harrisonburg, Va. Filed Jan. 7, 1922. Serial No. 527,546. 8 Claims. (Cl. 221—140.)



1. A seed sowing device comprising a seed hopper with an elevated discharge outlet; an element with tapered cells for receiving the seeds and elevating them to the discharge outlet of the hopper, composed of seperable apertured disk laminations capable of being combined in different numbers so that variations may be had both as to the diameter and depth of the seed cells in adapting the seeder to sowing seeds of different sizes and kinds.

1,474,600. ROLLER BEARING. CHARLES E. MCNUTT, Columbus, Ohio. Filed July 30, 1921. Serial No. 488,518. 1 Claim. (Cl. 64—62.)

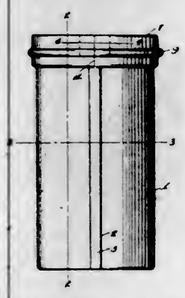


A roller bearing comprising inner and outer spaced concentric race rings, the opposed ends of which being spaced, said race rings are formed to provide continuous raceways, retaining rings associated with the raceways, antifriction rollers rotatable in the raceways and having axial bores, axles supported in spaced relation by the retaining rings and passing axially through the rollers of less diameter than the bores of said rollers, the ends of the rollers being spaced by an annular groove which registers with the space between the race rings to permit fluid communication between the grooves and bores.

1,474,601. METALLIC RECEPTACLE. ARTHUR MILLER, Columbus, Ohio, assignor to The Solar Metal Products Company, Columbus, Ohio, a Corporation of Ohio. Filed Aug. 27, 1919. Serial No. 320,268. 1 Claim. (Cl. 220—74.)

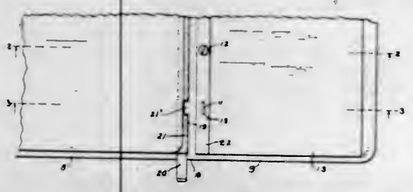
In a receptacle of the class described, the combination with a sheet metal body comprising a closed lower end and a normally open upper end, of means for reinforcing

said upper end, comprising an overlapped outer wall arranged to extend parallel with the main wall of said body,



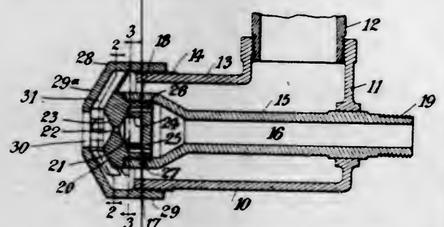
a vertical joint formed in said walls, and a bridge member located between said overlapped outer wall and the main wall of said body, said member serving to bridge said joint.

1,474,602. LOOSE-LEAF BINDER. HENRY C. MILLER, Milwaukee, Wis. Filed Jan. 3, 1921. Serial No. 434,618. 13 Claims. (Cl. 129—24.)



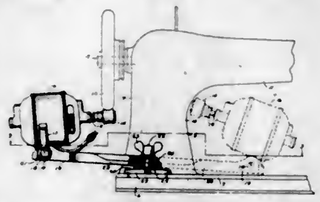
1. A loose leaf binder, comprising covers, and binding posts positioned between said covers, one of said posts being flexible in one plane only to maintain leaves mounted on the posts in alined position while another post is flexible in another plane.

1,474,603. LIQUID AND GAS MIXER. ALBERT W. MORSE, Forest Hills, N. Y. Filed Dec. 31, 1919. Serial No. 348,537. 2 Claims. (Cl. 158—76.)



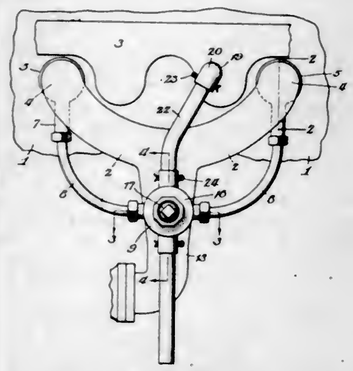
2. In a liquid and gas mixer having a central outlet, a centrifugal chamber, an opening for directing a liquid tangentially into the said chamber, an outlet from the said chamber centrally disposed with the chamber, a final outlet of the said mixer in central alignment with the outlet of the said chamber, a gas passage concentric with the said outlets and adjacent thereto, and means, within the said gas passage, for deflecting at substantially right angles with respect to the longitudinal axis of the mixer a gas towards the outlet of said mixer tangentially to a circle concentric with and larger than the outlet of the said chamber.

1,474,604. SEWING-MACHINE MOTOR. EMANUEL NIELSEN, Racine, Wis., assignor to Hamilton-Beach Mfg. Co., Racine, Wis., a Corporation of Wisconsin. Filed Aug. 30, 1919. Serial No. 320,893. 6 Claims. (Cl. 74—26.)



3. The combination with a sewing machine having a base portion and an arm portion and a wheel to be driven, of a motor member and its shaft and a driving wheel thereon, means for pivotally mounting the motor member on the base portion in a position to swing from an inoperative position beneath the arm of the machine to an operative position in which the motor wheel drivingly engages the hand wheel, said motor wheel in both positions of adjustment extending towards the hand wheel, and a clamping member associated with the pivotal means for holding the motor in either position of adjustment.

1,474,605. INTERNAL-COMBUSTION ENGINE VAPORIZING ATTACHMENT. LOUIS L. PATTERSON, Chicago, Ill. Filed Dec. 9, 1921. Serial No. 521,097. 8 Claims. (Cl. 123—122.)

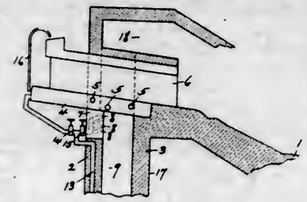


1. In combination with an internal combustion engine having an intake manifold and an exhaust manifold, a heater to vaporize liquid fuel, means interposed between the engine and the intake manifold to collect the liquid fuel, means to feed the liquid fuel from said collecting means to said heater, a connection from the exhaust manifold to said heater, and a connection to discharge the vaporized fuel from said heater into said intake manifold.

1,474,606. OPEN-HEARTH FURNACE. ORRIN F. PENNYPACKER, Youngstown, Ohio, assignor of one-half to Charles A. Harpman, Youngstown, Ohio. Filed Apr. 18, 1921. Serial No. 462,175. 3 Claims. (Cl. 158—7.)

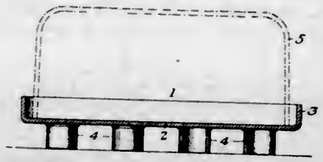
1. In a device of the class described, an arched port provided with a plurality of side inlets for directing air in different directions within said port, two manifolds directly underneath the side walls of the port, a plurality of inlets opening into said port, said inlet directing air in an inward and varying direction, a secondary manifold,

air inlets positioned in the same, said inlets directing the air in an inward and upward direction, but each inlet varying the direction as related to the other inlets, a



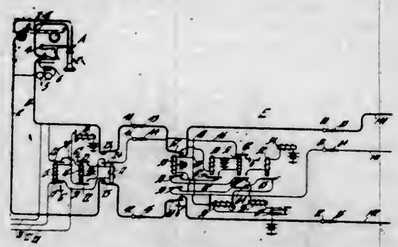
channel within the uptake wall of a gas uptake, two valves controlling the air leading from said channel, means for circulating water through said manifolds, substantially as described for the purpose set forth.

1,474,607. ANNEALING BOTTOM. WAYNE RAWLEY, Pittsburgh, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 8, 1922. Serial No. 535,103. 5 Claims. (Cl. 263—49.)



1. An annealing bottom comprising a smooth, suitably shaped body and hollow legs thereon, said legs being of substantially the same chemical composition as that of the material of the body, substantially as described.

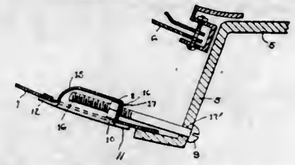
1,474,608. AUTOMATIC TELEPHONE SYSTEM. RODNEY G. RICHARDSON, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed June 29, 1917. Serial No. 177,653. 60 Claims. (Cl. 179—17.)



1. In a telephone system, a subscriber's line having an individual trunk selecting switch at the exchange, line, cut-off, and line switching relays in said switch, a stepping magnet, and a circuit completed by said line relay in response to the removal of the receiver at the substation on said line, said circuit including the other two relays and said magnet in series.

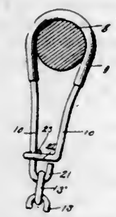
1,474,609. FURNACE-CASING-ATTACHING MEANS. DON V. RUNNION, Milwaukee, Wis., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 13, 1922. Serial No. 536,281. 4 Claims. (Cl. 126—114.)

1. A furnace casing attaching means, comprising a sheet metal member provided with a flat portion and an elongated socket and a bolt opening in communication therewith and having projecting edge tangs for connection



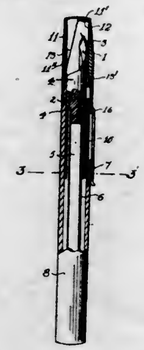
with a furnace casing, a nut positioned within the socket adjacent the bolt opening, and a bolt extending through the opening and threaded into the nut.

1,474,610. NONSKID DEVICE. FRANK E. SCHARTOW, Racine, Wis., assignor to The Midland Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 29, 1920. Serial No. 377,580. 2 Claims. (Cl. 152—14.)



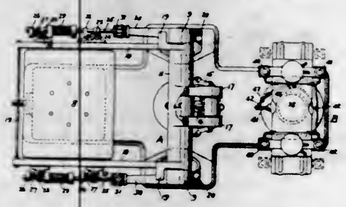
1. A device of the class described comprising a U-shaped resilient member adapted to be seated about the spoke of a wheel from one side of the wheel with the extremities thereof projecting on the side opposite that from which it is seated, the legs of said member normally tending to spring away from each other, one of said legs having a hook adapted to be engaged by the terminal link of a chain, the extremity of the other of said legs being bent around and provided with a hook adapted to engage the first mentioned leg, thereby holding the legs closely together and clamping the member tightly about the spoke.

1,474,611. FOUNTAIN PEN. PREM NARAYAN, Bijnor, India. Filed Apr. 7, 1923. Serial No. 630,539. 4 Claims. (Cl. 120—46.)



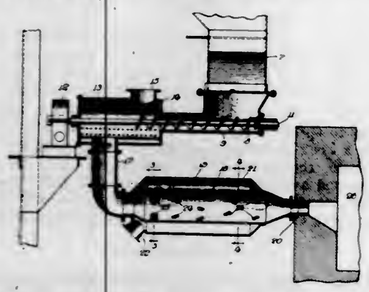
1. A self-filling fountain-pen comprising a nib, a support therefor having an attached ink-reservoir, means carried by the nib-support for moving the latter so as to cause the nib to be projected through an aperture in the end of the pen or to be retracted within the latter, a self-filling lever, and means whereby the lever is locked against operation when the nib is in the retracted position.

1,474,612. MOLDING MACHINE. ABBOTT ALLEN, Dunellen, and THOMAS J. MUMFORD, 2d, Plainfield, N. J., assignors, by mesne assignments, to Rose S. Mumford, Plainfield, N. J. Filed June 30, 1917. Serial No. 178,001. 27 Claims. (Cl. 22—33.)



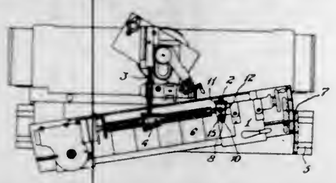
1. A roll over molding machine comprising in combination a marginally hinged roll over carrier adapted to support mold parts, a drawing mechanism over which the carrier is adapted to support the mold parts in inverted position, means for substantially relieving the roll over carrier of the weight of the mold parts when in inverted position previous to the draw, and means to prevent the relieving force from exceeding the weight of the mold parts.

1,474,613. FEEDING POWDERED FUEL. MILTON W. ARROWOOD, Chicago, Ill., assignor to Ground Coal Engineering Corporation, Worcester, Mass., a Corporation. Filed May 26, 1919. Serial No. 299,833. 6 Claims. (Cl. 110—104.)



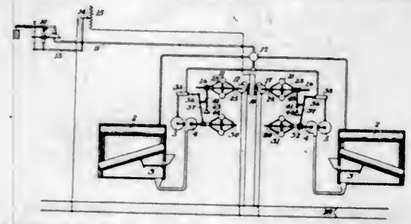
2. The method of feeding powdered fuel which includes discharging obliquely to the direction of travel of, and in non axial planes into, a flowing mixture of air and fuel, a plurality of jets of air.

1,474,614. HOLDER FOR WHEEL DRESSERS. WILLIAM D. BARTLETT, Cleveland, Ohio, assignor to The Ross Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 7, 1921. Serial No. 467,688. 3 Claims. (Cl. 125—11.)



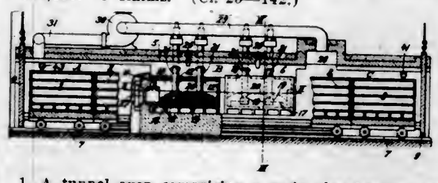
1. In a grinding machine, the combination with a grinding wheel; of a work support comprising a table adjustable about a vertical axis, and work holding means thereon comprising a head stock and a tail stock; and a wheel dressing tool mounted upon said tail stock and adjustable about a vertical axis with respect thereto.

1,474,615. GOVERNOR. MERRILL G. BENJAMIN, Poland, Ohio, assignor to The Benjamin Engineering Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 27, 1920. Serial No. 369,297. 9 Claims. (Cl. 236—24.5.)



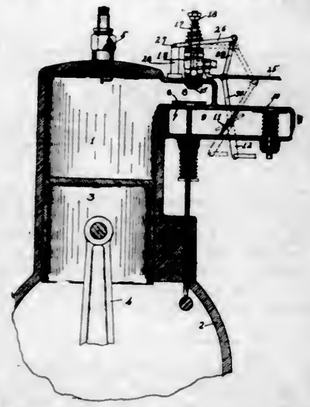
1. The combination with a steam boiler, of an auxiliary machine, a steam engine for driving the auxiliary machine, a governor tending to maintain the engine speed substantially uniform, and electric means controlled in accordance with a function of the boiler for increasing or decreasing the speed at which the governor maintains the steam engine, substantially as described.

1,474,616. TUNNEL KILN. GEORGE HILLARD BENJAMIN, New York, N. Y. Filed Feb. 8, 1922. Serial No. 534,839. 8 Claims. (Cl. 25—142.)



1. A tunnel oven comprising a main chamber through which goods to be heated can be caused to travel; a heating chamber on each side of the main chamber, structurally independent of the side walls and roof of the chamber; and means in each chamber for converting and transmitting electric current into heat.

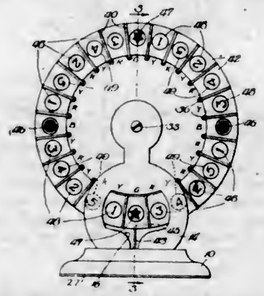
1,474,617. INTERNAL-COMBUSTION ENGINE. EMIL G. BOGUSCH, Detroit, Mich., assignor of one-fourth to Charles E. Wisner, Detroit, Mich. Filed Apr. 5, 1919. Serial No. 287,771. 2 Claims. (Cl. 123—31.)



1. In an internal combustion engine of the four-cycle type including a cylinder and piston operable therein, a fuel inlet adapted to introduce fuel and air in a highly pulverized state during substantially the entire intake

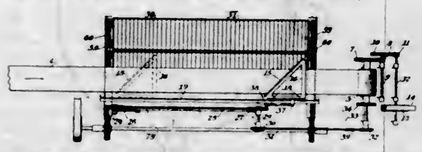
stroke of the piston, a spring-controlled valve controlling the said fuel inlet, an air valve adapted to open the cylinder to a flow of air at atmospheric pressure at about the completion of the intake stroke of the piston, a throttle valve controlling the volume of flow of air, and means whereby the opening of the throttle valve decreases the tension of the spring of the fuel valve.

1,474,618. GAME APPARATUS. EDMUND BAUDER, Chicago, Ill., assignor to Jacob Glos, Elmhurst, Ill. Filed Apr. 16, 1921. Serial No. 461,761. 9 Claims. (Cl. 46—56.)



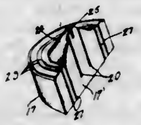
1. A game apparatus embodying a support, a disk like element mounted upon the support for free rotation, spaced stops arranged about the periphery of the said element, portions of the stops co-operating with the lateral face of the disc for dividing said face into separate spaces, and a yieldable and fixed element projecting across the path of movement of the said stops.

1,474,619. BREAD-COOLING APPARATUS. HERMAN J. BUCK, Ellwood City, Pa. Filed May 25, 1922. Serial No. 563,745. 27 Claims. (Cl. 198—31.)



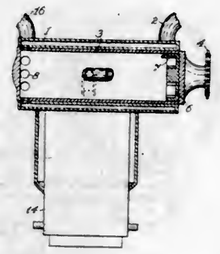
1. Conveying apparatus comprising two carriers disposed adjacent to each other and movable in different rectilinear directions, and a deflector having an article-engaging surface inclined with respect to the directions of movement of both of said carriers for periodically pushing a series of articles from one of said carriers to the other.

1,474,620. APPARATUS FOR FORMING DENTAL INLAY CASTINGS. ROLLAND T. CASE, La Crosse, Wis. Filed Dec. 29, 1920. Serial No. 433,904. 4 Claims. (Cl. 22—97.)



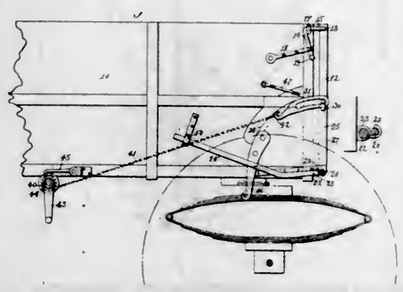
1. Means for forming a mold, comprising a body member, a sprue pin removably connected thereto for supporting a pattern, a crucible bowl forming member to permit the removal of the mold removably connected to the body member, and a tubular flask member inclosing the sprue pin and the bowl forming member for receiving an investment compound while in a fluid state to form when hard a mold having an integral crucible portion.

1,474,621. ROTARY VALVE FOR INTERNAL-COMBUSTION ENGINES. ZEN A. CARNES, Waterloo, Iowa. Filed Jan. 7, 1922. Serial No. 527,725. 3 Claims. (Cl. 123—177.)



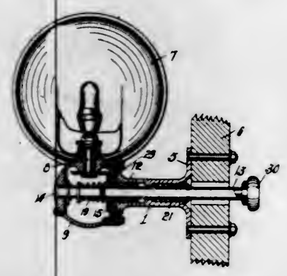
1. The combination with the combustion chamber of an internal combustion engine, of a valve-casing having a water-jacket, said casing having longitudinally spaced inlet and exhaust ports, and having in its opposite side a single port communicating with said combustion chamber, a hollow closed rotatable cylindric valve-body mounted and fitting within said valve-casing, said valve-body and said valve-casing having inlet and outlet ports at opposite ends thereof for effecting occasional registering communication between the valve-casing water-jacket and the hollow of the valve-body, independent conduits crossing the hollow of the valve-body sealed therefrom and adapted to respectively alternately effect communication between said combustion chamber port and the inlet and exhaust ports of said valve-casing when the valve-body is in rotation, and a vaned rotor mounted rotatably in the hollow of said valve-body to receive and be independently rotated by a fluid injected through said inlet-ports of the valve-casing and valve-body, the entering fluid being diverted by said rotor to impinge upon the inner cylindric wall of the valve-body to flow thereover toward the outlet-ports of the valve-body and valve-casing in a current circulating through the hollows of both said structures.

1,474,622. WAGON. CHARLES N. CLARK, Somerville, Mass. Filed Apr. 26, 1920. Serial No. 376,600. 5 Claims. (Cl. 296—51.)



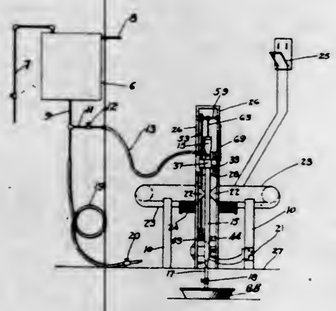
1. The combination with a wagon body, of a tail board pivotally secured thereto at its upper and lower ends, means for detachably securing said pivoted upper and lower ends to said wagon body, side closure members pivotally secured to the lower end of said tail board, a windlass carried by the wagon body and connected with said closure members to close the tail board from both open positions, stop members secured to said wagon body, and means on said side closure members for engaging said stop members.

1,474,623. SPOTLIGHT-ADJUSTING MEANS. ANGELO ROBERT CLAS, Toledo, Ohio. Filed July 24, 1922. Serial No. 577,018. 7 Claims. (Cl. 240—61.)



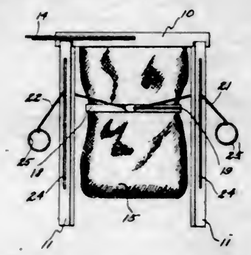
1. In combination, a bracket, a head carried for rotary movements by the bracket, a shaft journaled in and projecting from the head at an angle to its turning axis, a control shaft journaled in the bracket and projecting into the head for rotary and axial movements relative thereto, driving connection between the two shafts, means exerting an outward pressure on the control shaft, means exerting an inward pressure thereon intermediate the shaft and interior part of the head, means normally locking the control shaft and head against relative rotation and releasable by a predetermined axial movement of the control shaft, means normally locking said head and bracket against relative rotation and releasable by a predetermined axial movement of the control shaft, the control shaft being rotatable to impart rotation to the first shaft when the first locking means is released and to impart rotation to the head when the second locking means is released.

1,474,624. MAGNETIC CONCENTRATOR. EDWARD W. DAVIS, Minneapolis, Minn. Filed Jan. 14, 1921. Serial No. 437,280. 9 Claims. (Cl. 83—71.)



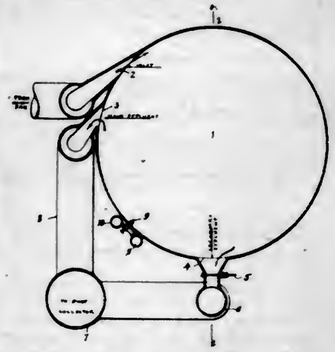
1. In a magnetic concentrator, the combination of a frame, an elongated container for the material to be concentrated mounted in substantially upright position to reciprocate on said frame, magnetic means positioned adjacent an intermediate portion of the container to create a magnetic field only at intermediate portions of the container, and means to reciprocate the container substantially along its upright axis in said field whereby magnetic particles of the material will be retained by the field in the intermediate portions of the container and non-magnetic particles thereof will drop therethrough.

1,474,625. CULINARY PRESS. CECILIE ECKERT, New York, N. Y. Filed Jan. 24, 1923. Serial No. 614,522. 2 Claims. (Cl. 100—49.)



1. A culinary press comprising a bag made of textile fabric and having an open top, a series of rings fixed in the upper edge of the bag, a pair of manually operable levers over a frame on which said levers are pivoted and guided, a constraining band suited to engage said bag at different points along its length, and means for forcibly decreasing the operative length of said band whereby the liquid content of said bag may be extended.

1,474,626. APPARATUS FOR DESICCATION. WALTER L. FLEISHER, New York, N. Y., assignor to W. L. Fleisher & Co. Inc., New York, N. Y., a Corporation of New York. Filed Oct. 27, 1922. Serial No. 597,433. 3 Claims. (Cl. 127—9.)

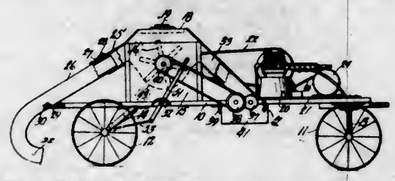


2. An apparatus of the class described comprising a cylindrical chamber adapted to be disposed horizontally said chamber having an air inlet a main outlet and a secondary outlet all running substantially the entire length of the chamber said inlet being disposed near the upper part of said chamber, and said main outlet in close proximity of the inlet and below the same the secondary outlet being disposed at the lower part of the chamber, a conduit connecting the said outlets, means for admitting the matter to be desiccated into the chamber disposed along the chamber between the outlets, and a gate interposed between the secondary outlet and the conduit.

1,474,627. MACHINE FOR GATHERING COTTON SQUARES. WILLIAM L. GARRETT, Forney, Tex. Filed Oct. 28, 1922. Serial No. 597,447. 1 Claim. (Cl. 43—140.)

In a machine of the class described, the combination of a rectangular wheeled frame adapted to straddle a row of plants, a rectangular fan housing mounted on the central portion of said frame, a fan mounted to revolve in said housing, a flue communicating with the

housing and declining from the upper rear side of the same and being bifurcated at its lower end, the said bifurcations terminating in forwardly directed elbows constituting the mouths of said flue and being adapted to travel in the furrows on each side of the row and approach the fallen squares therein as the machine is



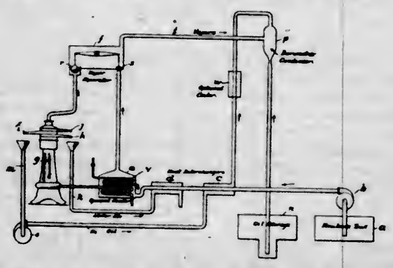
drawn, a discharge chute declining from the upper front side of said housing and having its mouth substantially tangential to the path of the fan, a pair of rollers extending transversely of the machine at the bottom of said chute between which the discharged matter is crushed, and means for driving the fan and said rollers.

1,474,628. EDGE REENFORCEMENT FOR SCREENS AND THE LIKE. LEOPOLD GUGGENBERGER, Hastings-on-Hudson, N. Y., assignor, by direct and mesne assignments, to Rolup Screen Company, New York, N. Y. Filed Dec. 30, 1921. Serial No. 526,056. 5 Claims. (Cl. 156—39.)



3. As an improved article of manufacture, a screen, shade, or the like, comprising a substantially conventional body portion, thin, flexible metallic springy strips at the side edges of the body, and in substantially the same plane as the body, the strips and body being arranged edge to edge, and fastening clips embracing the strips and overlapping a substantial portion of both sides of the body to which they are attached.

1,474,629. PROCESS FOR PURIFYING LIQUIDS. SELDEN H. HALL, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 16, 1921. Serial No. 492,849. 7 Claims. (Cl. 196—25.)



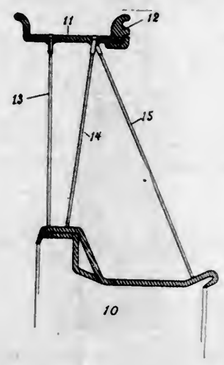
3. The process of purifying liquids containing valuable volatile constituents which comprises heating the liquid and driving off volatile constituents, centrifugally purifying the remaining liquid, cooling the purified liquid, and reabsorbing the volatile constituents in the cooled purified liquid.

1,474,630. PERFORATION CLEANER FOR OIL-WELL CASINGS. ALONZO LEWIS HALLIDAY, Oil Center, Calif. Filed Mar. 25, 1922. Serial No. 546,587. 6 Claims. (Cl. 166—20.)



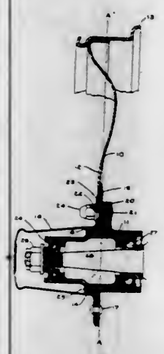
1. A perforation cleaner for well-casing comprising a hollow mandrel having ports in its side; a pair of spaced packers carried by the mandrel one on each side of its ports and adapted for contact with the interior of the well casing to close an annular space between the mandrel and casing; and a valve member seated within said mandrel for controlling its ports.

1,474,631. WHEEL. HENRY A. HOUSE, Jr., Buffalo, N. Y., assignor to Wire Wheel Corporation of America, Buffalo, N. Y., a Corporation of New York. Filed June 30, 1920. Serial No. 392,997. 2 Claims. (Cl. 301—55.)



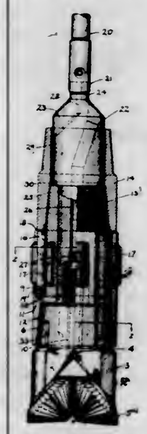
1. A wire wheel comprising a hub, a rim and spokes extending from said hub to said rim, said spokes being arranged in three sets, the first set extending from the outer end of the hub to the rim, the second set extending from the inner end of the hub to the rim, both said sets meeting the rim at an angle, the angle of the first set bearing the same ratio to the angle of the second set as the number of spokes in the second set bears to the number of spokes in the first set and the third set of spokes meeting the rim at substantially right angles thereto functioning as driving and braking spokes extending from the hub to the rim.

1,474,632. WHEEL. HENRY A. HOUSE, Jr., Buffalo, N. Y., assignor to Wire Wheel Corporation of America, Buffalo, N. Y., a Corporation of New York. Filed Mar. 27, 1922. Serial No. 547,275. 2 Claims. (Cl. 301—63.)



1. A disc wheel, demountable at the hub, comprising a disc having a central opening therethrough, a rim secured to the periphery of said disc, a reinforcing ring rigidly secured to the inner face of said disc around said opening and a cupped member rigidly secured to the outer face of said disc around said opening to close the same and to function as a handle during the mounting and dismounting of said wheel.

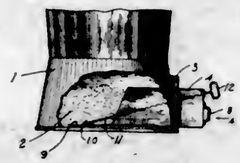
1,474,633. ROTARY EARTH-BORING DRILL. HOWARD R. HUGHES, Houston, Tex. Filed July 29, 1921. Serial No. 488,464. 6 Claims. (Cl. 255—73.)



1. In a rotary earth boring drill, a drill head having cutters thereon, an upwardly tapering shank on said head, a reamer keyed to said shank and having a smoothly tapered recess to receive it, a lubricator secured to said head and extending centrally through said reamer, and a drill collar secured to said reamer and surrounding said lubricator.

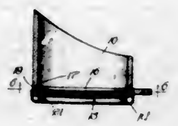
1,474,634. DUSTLESS ASH REMOVER. HENRY N. JOHANNS, Denver, Colo. Filed Nov. 17, 1922. Serial No. 601,588. 3 Claims. (Cl. 294—55.)

1. An ash remover consisting of a housing having one substantially flat side forming the bottom thereof, one end of said housing being open and the other closed, a cover hingedly connected to the flat side at the open end



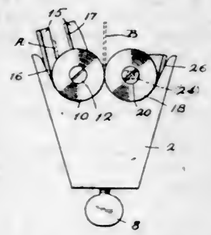
and means extending through the housing for opening and closing said cover.

1,474,635. GOGGLES. GEORGE S. JOHNSTON, Evanston, Ill., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Aug. 23, 1922. Serial No. 583,753. 7 Claims. (Cl. 2—149.)



1. A goggle construction comprising a tubular eye-piece or shield, having an internal annular shoulder, a bridge or nose-piece comprising a nose-engaging portion and a ring-portion, said ring-portion being seated on said annular shoulder, a lens seated on said ring-portion, and a securing-ring fitted onto the outside of said tubular eye-piece and holding said lens and ring-portion in place to secure them to said eye-piece.

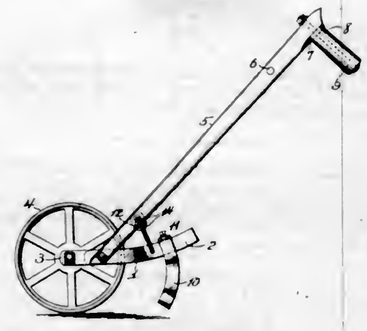
1,474,636. KNIFE AND SCISSORS SHARPENER. EDWARD R. JUDD and LOUIS MINNICK, Kansas City, Mo. Filed Sept. 23, 1922. Serial No. 590,133. 1 Claim. (Cl. 76—86.)



In a device of the character described, a bracket provided with means for securing it to a support, a pair of abrading disks associated with said bracket, V-shaped guides formed in opposite sides of the bracket for supporting knife blades in position to be sharpened against the periphery of said disks, and a bifurcated guide on the bracket for holding scissor blades in position to be sharpened against the periphery of one of the disks.

1,474,637. WALKING PLOW OR CULTIVATOR. JOSEPH G. LUNDY, Evergreen, Ala. Filed Nov. 26, 1920. Serial No. 426,460. 1 Claim. (Cl. 97—59.)

An agricultural implement comprising a beam having a bifurcated forward portion and a single upwardly curved rear portion, a wheel mounted in the forward bifurcated portion of the beam, a standard of an earth-working member having its upper end constructed to encircle the upwardly curved rear portion of the beam, means for securing the standard in a set position upon the upwardly curved portion of the beam, handles pivotally attached to the forward bifurcated portion of the beam, and an adjustable connection between the handles and the beam at a point in advance of the standard.



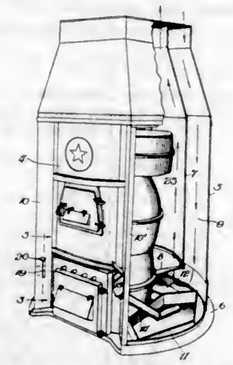
1,474,638. ELECTRIC WATER HEATER. ALPHONSE MARTIN, Ogdensburg, N. Y. Filed Mar. 14, 1922. Serial No. 543,672. 7 Claims. (Cl. 219—40.)



1. An electric water heater comprising a container having an inlet and an outlet, cooperative electrodes of an electric circuit forming an arc-gap within the container for heating the water therein and heat-control means in contact with the water within the container for opening and closing the circuit as the temperature varies from the predetermined degree.

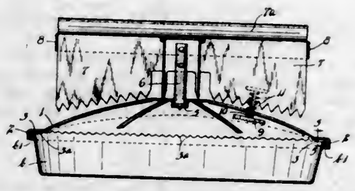
1,474,639. AIR-WASHER HUMIDIFIER FOR FURNACES. JOHN V. PATTEN, Chicago, Ill., assignor to Hero Furnace Company, Chicago, Ill., a Corporation of Illinois. Filed June 20, 1921. Serial No. 478,847. 2 Claims. (Cl. 126—113.)

1. In a hot air furnace, the combination of a base, a fire box supported thereon, an outer shell rising from the base, an inner jacket between the shell and the fire box and having its bottom terminated above the base to provide a communication between the down draft air space between the jacket and the shell and the up draft air space between the jacket and the fire box, a plurality of removable open topped water pans supported on the base and extending around the fire box, successive pans having a detachable overflow connection disposed entirely within the furnace, a water supply pipe leading inwardly



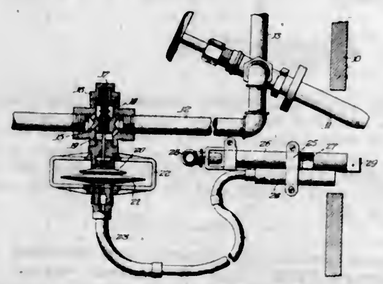
through the shell and communicating with one of the pans, and a float actuated indicator for indicating the level of the water in the pans.

1,474,640. DEVICE FOR TREATING PIE DOUGH. MICHAEL PINKOSH, Minneapolis, Minn., assignor of one-half to John Paseka, Minneapolis, Minn. Filed Apr. 3, 1922. Serial No. 549,233. 8 Claims. (Cl. 107—49.)



1. A device for treating pie dough in the pie pan comprising, a rigid member constructed to extend over a pie and having an open cylindrical portion, the edge of which is adapted to press down around the pie pan and sever the projecting portion of the dough, said member also having a continuous corrugated flange portion adapted to seal and crimp the edge of the dough by the same downward movement that severs the projecting portion.

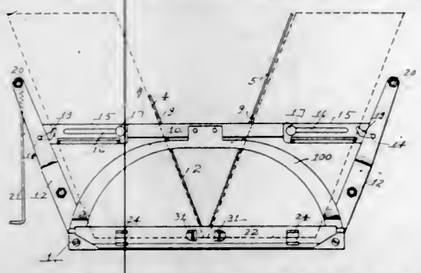
1,474,641. PILOT BURNER. FRED W. POWERS, Chicago, Ill. Filed Jan. 26, 1922. Serial No. 531,962. 2 Claims. (Cl. 67—116.)



1. In regulating apparatus, the combination of a main burner, a pilot burner, a valve for controlling the supply of fuel to the main burner, a thermostatic tube lying

alongside of said pilot burner, a bellows for actuating said valve, a flexible tube connecting said thermostatic tube and said bellows, said thermostat acting to directly close said valve upon continued extinguishment of said pilot burner.

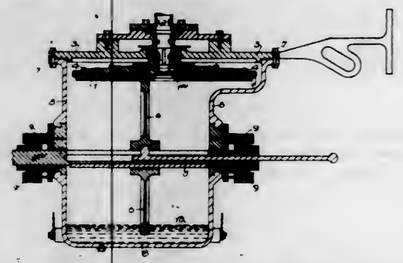
1,474,642. FILING DEVICE. WILLIAM S. PROUDFIT, Walker Township, Kent County, Mich. Filed Jan. 5, 1922. Serial No. 527,201. 11 Claims. (Cl. 129—16.)



1. In a device of the character described; a plurality of containers arranged side by side, each container comprising side members swingably connected adjacent its bottom, at least one of said side members having a lateral projection; a frame supporting the containers adjacent their bottoms and having a horizontally disposed side rail on which said projections rest in the extreme sidewise swung position of the side members having said projections; means connected with the frame for holding the containers adjacent their bottoms against upward movement.

11. In a device of the character described; a container comprising a bottom part with parallelly disposed spaced-apart sides having eyelets integral therewith, and side members fastened by said eyelets to said sides respectively of the bottom part.

1,474,643. MOTOR VEHICLE OR OTHER POWER-TRANSMISSION MECHANISM. PERCY OCTAVIUS ROWLANDS, Liverpool, England. Filed Sept. 11, 1922. Serial No. 587,569. 3 Claims. (Cl. 74—26.)



1. A power transmission mechanism comprising a casing, a body of liquid in the bottom of said casing, and friction disks rotatable in said casing with one of said disks provided with a surface of india rubber or its compounds, and one of said disks extending into the liquid to carry quantities of the liquid on to the other friction disk.

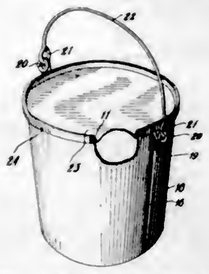
1,474,644. STEERING WHEEL AND METHOD OF MANUFACTURE. EARL W. SCHAFER, Chicago, Ill. Filed Apr. 17, 1922. Serial No. 554,207. 3 Claims. (Cl. 74—33.)

1. In a steering wheel, a spider having outwardly and upwardly extending arms provided with oppositely disposed transversely arranged locking pins, and a rim having a plurality of radial sockets corresponding to said



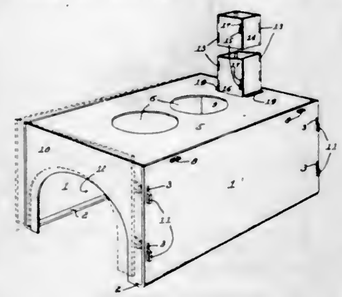
arms and opening only upon the inner surface of said rim, each of said sockets being provided with tangential recesses coinciding with said pins.

1,474,645. SUSPENSION MEANS FOR VESSELS. BARNEY SCHILLING, Brooklyn, N. Y., assignor to The Empire Tinware Company, Brooklyn, N. Y., a Corporation of New York. Filed Dec. 1, 1922. Serial No. 604,228. 3 Claims. (Cl. 220—73.)



1. In a vessel suspension a semi-annular member adapted to be permanently associated with the rim of a vessel having at one end a depending semi-looped portion terminating in a full loop extending upwardly and in a radial direction from the rim of a vessel.

1,474,646. TAKEDOWN CAMP STOVE. AXEL W. STEEN, Los Angeles, Calif., assignor of one-half to Julia C. Foelsing, Los Angeles, Calif. Filed Sept. 5, 1922. Serial No. 586,144. 4 Claims. (Cl. 126—29.)

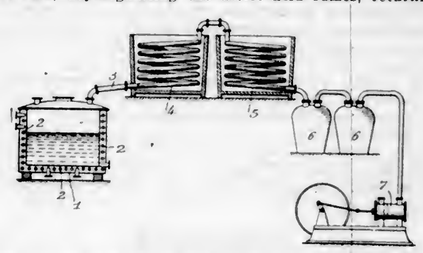


1. A take down stove having its side and end plates surrounding its top plate; said end plates engaging said side plates by means of vertically notched tenons, and said top plate engaging said side plates by means of plain tenons.

1,474,647. PROCESS FOR CONCENTRATING AQUEOUS NITRIC ACID BY MEANS OF SULPHURIC ACID. WERNER SIEBERT, Laufenburg, Aargau, Switzerland, assignor to Nitrum Aktiengesellschaft, Zurich, Switzerland, a Corporation of Switzerland. Filed May 13, 1922. Serial No. 560,725. 2 Claims. (Cl. 23—1.)

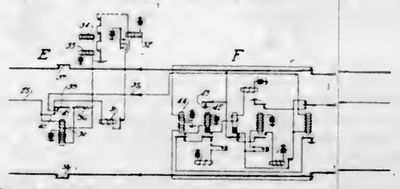
1. The process for concentrating aqueous nitric acid by means of sulphuric acid which consists in distilling a

mixture of dilute nitric acid and sulphuric acid under vacuum, dephlegmating the nitric acid fumes, returning



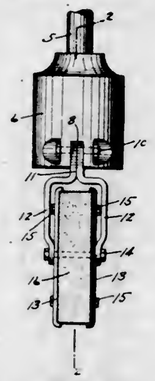
for further distillation the fumes which have low concentration, and condensing the fumes which have high concentration.

1,474,648. AUTOMATIC TELEPHONE SYSTEM. ARTHUR BESSEY SMITH, Evanston, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 1, 1920. Serial No. 414,080. 23 Claims. (Cl. 179—18.)



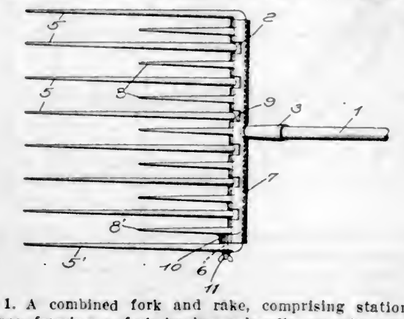
20. In a telephone system, means including two directively controlled switches for completing a connection, a non-directive hunting switch interposed between said switches, and circuit connections including a wiper of said hunting switch to enable the first directive switch to test the second directive switch and determine whether the same is busy or idle.

1,474,649. CYLINDER-FINISHING TOOL. ADOLPH STORM, Minneapolis, Minn., assignor to Storm Manufacturing Company, Minneapolis, Minn., a Copartnership consisting of said Storm and O. W. Nelson. Filed Oct. 30, 1922. Serial No. 597,866. 6 Claims. (Cl. 51—206.)



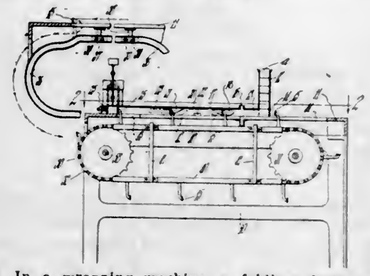
1. A tool of the kind described comprising a rotary head, levers pivoted to said head, finishing hones pivotally carried by the extended ends of said levers, a spring tension device carried by said head and independently reacting against said levers and exerting a force thereon tending to spread said levers and finishing hones, said spring tension device being adjustable as an entirety, so as to vary the spread of said levers without changing the tension of said spring tension device.

1,474,650. COMBINED RAKE AND ROCK REMOVER. BERT EDWARD STORR, Bayview, Wash. Filed Dec. 1, 1922. Serial No. 604,265. 2 Claims. (Cl. 294—52.)



1. A combined fork and rake, comprising stationary tines forming a fork having a handle extending therefrom, a sleeve mounted for movement with relation to the stationary tines, said sleeve having auxiliary tines operating between the stationary tines, a projection from the sleeve, and a bolt for interlocking said projection with the stationary tines in a plurality of positions, whereby the auxiliary tines may be arranged in a plurality of relations with respect to the stationary tines.

1,474,651. WRAPPING MACHINE. EDWARD C. TAYLOR, Longmeadow, Mass. Filed July 14, 1919. Serial No. 310,827. 15 Claims. (Cl. 93—2.)



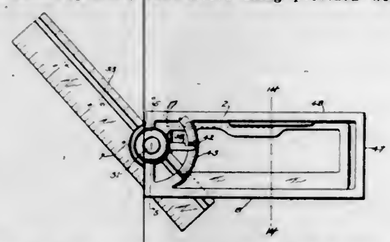
1. In a wrapping machine, a folding chute, continuously operating means to carry the article and wrapper through the chute, a second folding chute extending transversely of the first-named chute, continuously operating means to receive the partially wrapped article from the first-named chute and to carry it through the second-named chute, and means carried by the second-named carrying means to make a fold in the wrapper.

10. A conveyor adapted for use in wrapping machines having projecting pusher elements, and plates attached to each pusher element and extending forwardly at one side thereof so as to turn down a fold of the wrapper at one side of the article as the pusher comes into contact therewith.

1,474,652. COMBINATION SQUARE. EDUARD H. TEMPERLI, El Cerrito, Calif. Filed May 29, 1922. Serial No. 564,447. 11 Claims. (Cl. 33—88.)

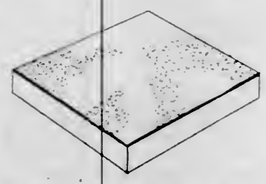
11. In a combination square, a frame formed of a single integral piece and provided with a slot and an aperture having tapering sides, a blade arranged to fit in said slot and provided with a groove having tapering sides, a V-shaped depressed face on one side of said frame communicating with said slot, a level glass and a plumb level glass on other sides of said frame, a portion of the

frame adjacent the apex of said depression being cut away whereby a scriber may be inserted into said depression from the outside of the frame, a feather adapted to engage in said groove provided with beveled sides and a central aperture, an internally threaded sleeve arranged in and having its outer sides tapered similar to said first mentioned aperture, said sleeve being provided with a



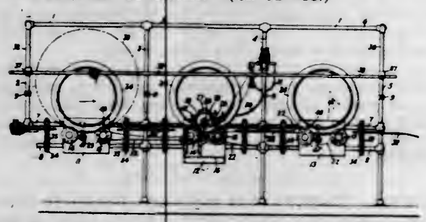
recess for the reception of said feather, a graduated segment provided on said frame and concentrically disposed with respect to said sleeve, an indicating member held on said sleeve for rotation therewith and provided with a pointer for cooperation with said segment, a hollow externally threaded knurled nut engaging in said sleeve and adapted to clamp the sleeve and indicating member and blade against rotation, a screw extending through said nut and sleeve and having a threaded engagement with the latter, one end of said screw being rotatably secured in the central aperture of the feather, and means for limiting the rotation of said nut.

1,474,653. TILE AND METHOD OF MANUFACTURING THE SAME. KARL L. TORNO, Berkeley, Calif. Filed Oct. 4, 1921. Serial No. 505,252. 3 Claims. (Cl. 41—26.)



1. The method of finishing porous surfaces consisting in applying a cementitious fluid to said surface; adding coloring matter to said surface, and stippling said coloring matter and fluid.

1,474,654. TIRE-TREATING MACHINE. GUSTAVE A. URBACH, Pittsburgh, Pa. Filed July 18, 1919. Serial No. 311,874. 34 Claims. (Cl. 91—45.)



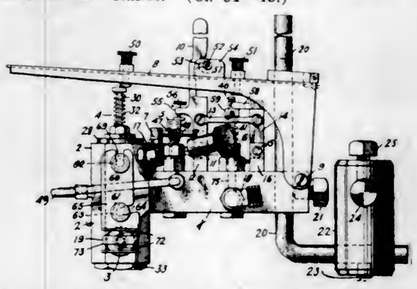
1. In a tire machine, the combination with means for rotating the tire, of manually initiated means for causing the momentum of the tire acquired by being rotated in one position to move the tire into another position.

17. A tire machine having in combination means for rotating a tire, means for treating the surface of the tire as it is rotated and means for automatically stopping said treatment after one rotation only of the tire.

29. A tire machine comprising means located in one position for coating a tire and separate means located in another position for rotating the same to dry it after it has been coated and means for causing the tire to move from the coating to the drying position by its own momentum.

32. A tire treating machine comprising means for progressively treating a tire and means for indicating the position on the tire where treatment began.

1,474,655. LIQUID SPRAYER. GUSTAVE A. URBACH, Pittsburgh, Pa. Filed July 18, 1919. Serial No. 311,875. 14 Claims. (Cl. 91—45.)

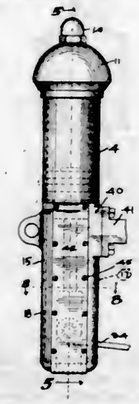


1. A sprayer comprising a chamber, a nozzle in communication therewith, means including valves for supplying a plurality of fluids to the nozzle and to the chamber, and means, operable in two directions, for actuating said valves simultaneously when actuated in one direction and sequentially when actuated in the other direction.

7. In a spraying apparatus, the combination with a sprayer having a nozzle for directing a stream of fluid, of means for distributing the fluid comprising a member spaced from the nozzle and formed to uniformly divide said stream and prevent the rebound of said fluid from said distributing means.

13. In a spraying apparatus, the combination with a spraying orifice, of a deflecting means therefor having such stream-line supporting means that the spray is precluded from splitting.

1,474,656. AIR SPRING. VERLE V. VAN NATTAN and CARLTON R. GRAY, San Francisco, Calif., assignors to Van N Air Spring Company, San Francisco, Calif., a Corporation of California. Filed Apr. 8, 1921. Serial No. 459,603. 21 Claims. (Cl. 267—32.)



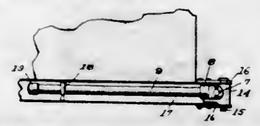
1. A cushioning device comprising a closed cylinder fixed to a vehicle frame and adapted to contain a pressure; a substantially closed guide frame including separate end guides depending from, and independent of said cylinder; a piston slidably retained within said cylinder; a block having its opposite ends slidably retained in said guides and connected to said piston and a movable vehicle spring connected to said block and adapted to move said interconnected block and piston axially with respect to said cylinder and guide way.

1,474,657. PLASTER BOARD. CURRY ORA WALPER, Detroit, Mich., assignor of one-third to Frank A. Masien and one-third to Bernard E. Clark, both of Detroit, Mich. Filed Aug. 14, 1922. Serial No. 581,648. 14 Claims. (Cl. 154—45.9.)



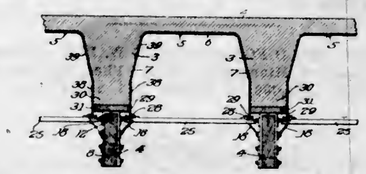
3. A plaster board comprising a plurality of layers, one or more of said layers consisting of plastic material and one or more of said layers consisting of absorbent paper adhering to a surface of a plastic layer, and a layer of material substantially impervious to water lying between and adhering to two layers of paper.

1,474,658. LOCOMOTIVE STAKE. PASKLE WARREN, Peoria, Ill. Filed Mar. 10, 1922. Serial No. 542,568. 2 Claims. (Cl. 213—224.)



1. In a stake the combination of a stake member, a connecting block provided with a movement limit and to which the stake member is pivotally connected on a horizontal axis, and a pivotal mounting for the connecting block on a vertical axis.

1,474,659. CONCRETE FORM AND SUPPORT. WILLIAM E. WHITE, Chicago, Ill. Filed Dec. 2, 1921. Serial No. 519,373. 6 Claims. (Cl. 25—131.5.)

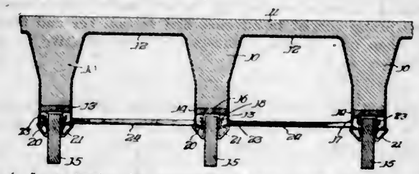


1. In support means for forms for the production of a concrete floor and the like having parallel concrete beams on its under side, form pans for producing said beams, means for supporting the pans in position comprising hangers adapted to be supported on temporary joists arranged beneath said beams, spacer bars adapted to span from joist to joist, and destructible metallic bar-support elements adapted to be supported on the hangers, the spacer bars arranged to support the pans, the destruction of the metallic support elements permitting the free removal of said bars and the pans, as and for the purpose specified.

3. In concrete form supports of the kind described, temporary destructible support brackets, a channel shaped support bar adapted to rest at its ends on opposed brackets, the web of the bar cut away at its ends to facilitate the removal of the bar after the destruction of the brackets, as and for the purpose specified.

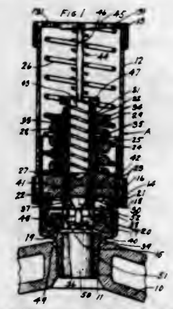
6. In sheet metal forms for concrete work, open bottomed U-shaped pans, removable means for supporting the pans in position, the side edges of the pans being turned outwardly and upwardly to form rounded stiffened edges on the pans capable of catching and holding seepage.

1,474,660. FORM SUPPORT. WILLIAM E. WHITE, Chicago, Ill. Filed Dec. 2, 1921. Serial No. 519,374. 5 Claims. (Cl. 25—131.5.)



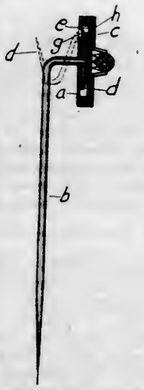
4. In a device for supporting steel forms for concrete, the combination with a supporting joist, of a stirrup having hook shaped projections, and wire pan supports engaging said projections, said wire devices having a brace portion adapted to be severed to permit the disengagement of the support from the stirrup and permit the dropping of the pans.

1,474,661. IGNITER. KNUT BERGLOF, Buffalo, N. Y. Filed Aug. 3, 1921. Serial No. 489,502. 19 Claims. (Cl. 123—143.)



19. In an igniter for compressed gas in the cylinder of an internal combustion engine, a chamber in which such gas from said cylinder is compressed until it ignites spontaneously, said compression being the result of the action of the compressed gas in said cylinder upon said chamber, an annular piston surrounding said chamber, a valve below said piston and also surrounding said chamber, said valve preventing the compressed gas in the cylinder from bearing directly upon said piston until said chamber is raised out of contact with said valve.

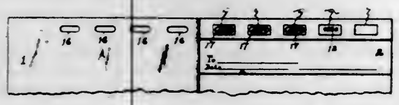
1,474,662. SCARFPIN. RALPH JOHN CARNEY, Boston, Mass. Filed Jan. 21, 1921. Serial No. 438,973. 6 Claims. (Cl. 24—155.)



2. A scarf pin comprising in combination a shank, a back head member, a front head member, one of said

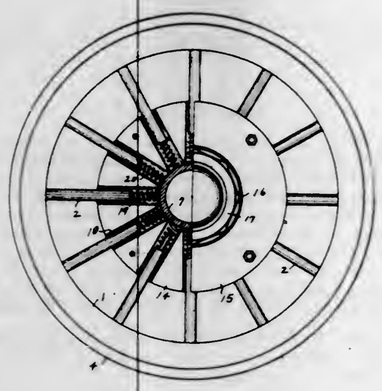
members rigidly secured to said shank, and the other of said members mounted for turning movement relative thereto, a prong fastened to said front head member and passing through an opening in said back head member, said prong curved to advance and retract the end thereof when one of said members is turned relative to the other.

1,474,663. MULTIPLE-FORM SAFETY DEVICE. DEMAS S. COE, Richmond, Ind. Filed Nov. 27, 1922. Serial No. 603,493. 2 Claims. (Cl. 283—66.)



1. Multiple billing and record form comprising a plurality of superposed sheets connected together, each of said sheets having a permanent number printed thereon all of said numbers being identical with each other, means whereby the numbers of each of the sheets may be seen at one time without turning any of the sheets.

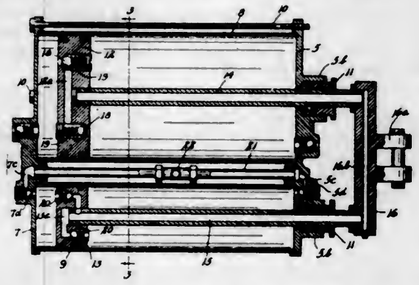
1,474,664. RESILIENT WHEEL. PIERCE D. DE OLIVE, Oakhurst, Tex. Filed Nov. 22, 1921. Serial No. 516,982. 2 Claims. (Cl. 152—48.)



2. A resilient wheel, including a felly, radiating spokes whose outer ends are secured to said felly, a hub one end of which has an annular plate formed integrally therewith, a similar plate fitted onto the other end of said hub, said plates coinciding in position and fitting closely together, the inner sides of said plates having coinciding radiating grooves forming bearings in which the inner ends of the corresponding spokes work loosely, and yieldable members interposed between the hub and inner end of the corresponding spokes.

1,474,665. DOUBLE-ACTING AIR PUMP. IRVING T. EASTMAN, Cody, Wyo., assignor of one-half to Roy O. Eastman, Minneapolis, Minn. Filed Jan. 5, 1922. Serial No. 527,120. 9 Claims. (Cl. 230—27.)

1. An air pump comprising high and low pressure cylinders, a piston in each cylinder, each piston having a chamber therein and passages communicating with opposite sides thereof controlled by oppositely acting valves, piston rods for said pistons having longitudinal passages therethrough communicating with said chambers, respectively, the passage in the low pressure rod



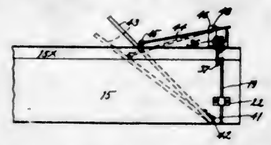
forming a discharge passage and the passage in the high pressure rod forming an inlet passage, and means connecting the passages in said piston rods.

1,474,666. MOTOR BELT. ROBERT D. EDWARDS, Kansas City, Mo. Filed Sept. 2, 1922. Serial No. 585,992. 1 Claim. (Cl. 74—63.)



As a new article of manufacture, a motor belt, consisting of a single strip of flexible material secured at its ends to provide a band, the band being folded along its longitudinal center to provide two plies, the free edges of the two plies being turned over to provide a narrow hem, the first folded edge being turned over to contact with the hem, the fold thus made being reversibly folded, the hem portion being folded back upon the remainder of the band, the hemmed portion reversibly folded upon the first mentioned portion, and the plies being stitched one upon the other as a result of the several folds.

1,474,667. MOLD FOR CONCRETE WALLS. THEODORE E. ERDMANN, Minneapolis, Minn. Filed July 10, 1922. Serial No. 574,096. 3 Claims. (Cl. 25—131.)

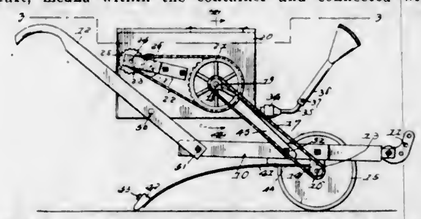


2. The structure specified in claim 1, said adjustable means comprising a vertically swingable partition between each wall and the core, a removable hinge bar transversely arranged in apertures in and adjacent the bottom of the core and wall channels, a hinge member at the bottom end of each partition and adapted to pivotally engage said bar, and means pivotally secured to each partition, above its hinge, to set the same at any desired angle.

1,474,668. INSECTICIDE DISTRIBUTOR. WALTER H. FRANKS, Warthen, Ga. Filed Sept. 15, 1920. Serial No. 410,538. 1 Claim. (Cl. 43—148.)

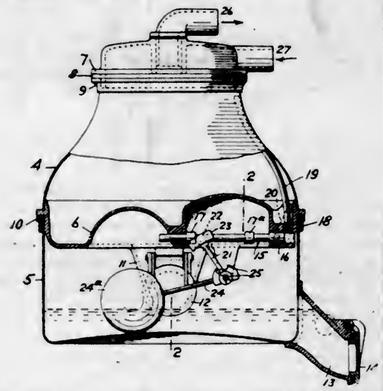
In a distributor for insecticide, a frame having a centrally located supporting and driving wheel, a ground engaging member attached to the frame by resilient members, a container for insecticide, a pair of handles

and a pair of links which connect the container with the frame, a pair of insecticide distributors attached to the container and discharging laterally of the line of draft, means within the container and connected with



the distributors for projecting insecticide from the container out of the distributors, the organization of the parts being such that the position of the distributors may be varied during the travel of the machine by unequal pressure upon the handles.

1,474,669. MILK RELEASER. CYRUS HOWARD HAPGOOD, Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 25, 1921. Serial No. 517,469. 4 Claims. (Cl. 31—98.)



3. A milk releaser for the purpose described having a suction chamber and a milk releasing chamber, means for connecting said suction chamber to a milk pipe and a vacuum pipe, a flow passage leading from the suction chamber to the releasing chamber, a pressure actuated valve for opening and closing said passage, a flow passage leading from the releasing chamber, a pressure actuated valve for closing and opening said passage, a second connection between the suction chamber and the releasing chamber, a connection between the releasing chamber and the atmosphere, a valve for closing one of said last connections and opening the other, and float controlled means for actuating said last mentioned valve for connecting the releasing chamber with atmosphere when the milk in the releasing chamber rises above a predetermined level and for cutting off the connection to the suction chamber and for reversing said connections when the milk in the releasing chamber falls below a predetermined level.

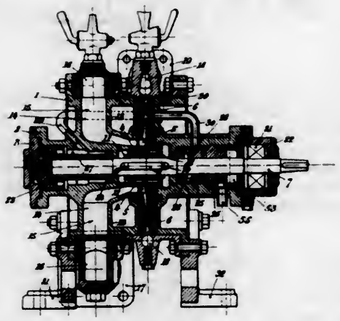
1,474,670. PROCESS OF AND APPARATUS FOR RESOLVING EMULSIONS. CYRUS HOWARD HAPGOOD, Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 25, 1922. Serial No. 546,812. 11 Claims. (Cl. 196—25.)

1. The process of separating the constituents of a mixture or emulsion which comprises establishing a flowing stream of the mixture, adding thereto a treating agent adapted to facilitate separation of the constituents, subjecting the mixture to a centrifugal separating



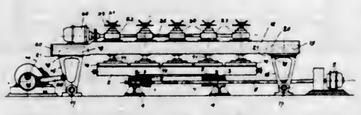
action, and regulating the rate of supply of both the mixture and the treating agent by the back pressure of the flowing stream.

1,474,671. CENTRIFUGAL PUMP. PAUL HARIVEAU, Paris, France. Filed Aug. 2, 1920. Serial No. 400,784. 11 Claims. (Cl. 103—105.)



1. A centrifugal pump comprising a cover plate forming one side of the intake passage, a crown ring provided with guide vanes which completes the intake passage, an intake volute, a rotor and a delivery volute, each of these different parts being cast separately, means to assemble the intake volute with the cover plate on one hand and the delivery volute on the other.

1,474,672. APPARATUS FOR GRINDING, SMOOTHING, AND POLISHING GLASS, PLATE GLASS, AND OTHER MATERIAL SUBSTANCES. CHARLES HEUZE, Ouvelais, Belgium. Filed Nov. 1, 1921. Serial No. 512,138. 15 Claims. (Cl. 51—56.)

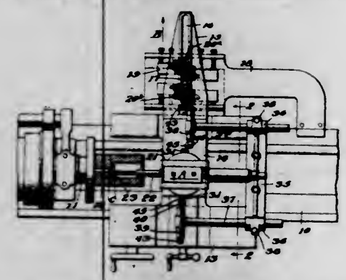


1. Apparatus of the character described, comprising a table for supporting the work; a succession of rows of tools extending above and across the table, each row having an individual support; mechanism for imparting an endwise reciprocating bodily movement to all of said supports simultaneously, but moving the odd-numbered supports in one direction and the even-numbered supports in the opposite direction; and mechanism for rotating all of the tools of a row simultaneously.

2. Apparatus of the character described, comprising a table for supporting the work; a succession of rows of tools extending above and across the table, each row having an individual support; mechanism for imparting an endwise reciprocating bodily movement to all of

said supports simultaneously, but moving the odd-numbered supports in one direction and the even-numbered supports in the opposite direction; and mechanism carried by and individual to each support for rotating all of the tools in the corresponding row simultaneously.

1,474,673. ATTACHMENT FOR LATHES. MONROE G. HUSTED, Bridgeton, N. J. Filed Mar. 28, 1922. Serial No. 547,487. 5 Claims. (Cl. 82—14.)

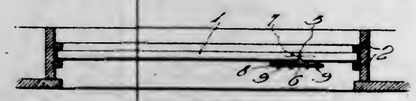


2. In a device of the class described a travelling cutting tool holder, a guide member therefor, a templet in which said guiding member travels and cooperating cams arranged respectively on said tool holder and in the path of said tool holder and engaging during the movement of said travelling tool holder for shifting said guiding member in said templet.

1,474,674. METHOD OF MANUFACTURING YEAST. ARTHUR JENS MARINUS JENSEN, Randers, Denmark, Filed Sept. 20, 1920. Serial No. 411,590. 1 Claim. (Cl. 195—20.)

The method of producing well-keeping yeast, which comprises seeding a dough with virulent yeast, allowing the mash to partially ferment, adding sufficient lactic acid bacteria to prevent further fermentation and bringing the mash to the consistency of compressed yeast without removing the yeast nutrients, and forming into cakes for use as yeast.

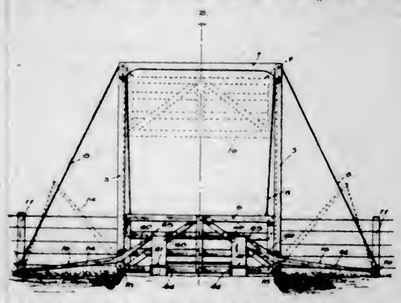
1,474,675. WINDOW SCREEN. FREDERICK B. KIRKNESS, Yorklyn, Del., assignor of one-half to Frederick Biddle Kirkness, Wilmington, Del. Filed Oct. 16, 1922. Serial No. 594,842. 1 Claim. (Cl. 156—14.)



A window screen having the top and bottom bars of its frame formed with transverse cuts, each of said bars having a V-shaped cut in one side, and a single saw cut in its other side opposite the apex of the V whereby the portions of said bars at opposite sides of said cuts may be angled when inserting the frame, and means for holding said bars in rectilinear form when the frame is in place.

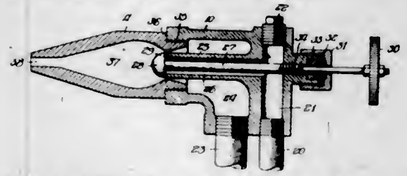
1,474,676. SELF-CLOSING GATE. GOTTHARD H. KNUTSON, Pelican Rapids, Minn. Filed Apr. 14, 1922. Serial No. 552,558. 5 Claims. (Cl. 39—18.)

1. A gate comprising guide-ways, a gate slidably carried thereby; cables connected to the gate, levers slidably and pivotally carried by said guide-ways and having connection with said cables, run-ways having connection with the inner ends of the levers and forming an approach to the gate, said runways being arranged on opposite sides of the gate, yokes arranged beneath the gate and having sides connected to the ends of said



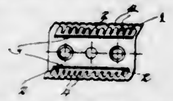
run-ways, and locking bolts slidably carried by said run-ways and adapted for normally holding the gate in its lower position.

1,474,677. HYDROCARBON BURNER. WALTER J. KRAUSE, Chicago, Ill. Filed Nov. 26, 1920. Serial No. 426,453. 4 Claims. (Cl. 158—75.)



1. In a hydrocarbon burner, the combination of a burner head having a high pressure fluid chamber therein and having a hollow fuel conveying conduit therethrough, a nozzle secured to the said burner head having a venturi shaped passage therein, the said fuel conveying conduit terminating at the throat of the venturi shaped passage, and means for spreading the fuel into a circular sheet and causing the fuel to pass into the current of the high pressure fluid.

1,474,678. SAFETY-RAZOR GUARD. LOUIS LORET-FLEURANCE, Angers, France. Filed May 8, 1922. Serial No. 559,298. 4 Claims. (Cl. 30—12.)

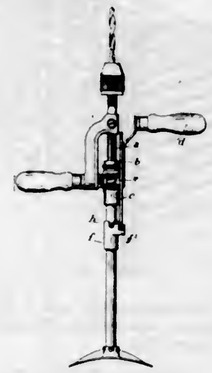


1. A guard plate for safety razors, formed adjacent to and parallel with each longitudinal edge with a relatively narrow longitudinal slot, the inner longitudinal edge of which is straight and the ends of which terminate in proximity to the ends of the plate; and a series of guard teeth projecting inwardly from the outer longitudinal edge of each slot toward the said inner longitudinal edge thereof, the teeth of each series terminating short of the corresponding inner longitudinal edge to provide a clearance space for hair and soap.

1,474,679. HAND DRILL PROVIDED WITH A SPEED-CHANGING DEVICE. VICTOR GUSTAVE LUTZ, Paris, France. Filed Aug. 29, 1921. Serial No. 496,405. 4 Claims. (Cl. 145—67.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

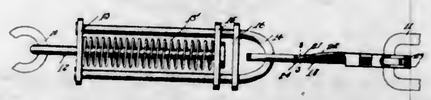
1. In a hand drill, the combination of a main frame, a drill point carrying shaft journaled in the said frame, a gear wheel slidable on the said shaft and revoluble

thereby, an engaging disc having therein a plurality of concentric circular rows of apertures co-operating with the teeth of the said gear wheel, the said disc being provided with a pivot axle journaled in the said frame



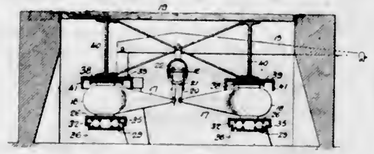
and disposed perpendicularly to the said shaft, and means disposed upon the said frame for maintaining the said disc in the normal position of engagement with the said gear wheel, said disc when in a normal position preventing displacement of the said gear wheel along the shaft.

1,474,680. CHAIN CONNECTER. ROBERT N. LYON, Coeur d'Alene, Idaho, assignor of one-third to Charles M. Allen, Coeur d'Alene, Idaho. Filed Dec. 30, 1922. Serial No. 609,996. 3 Claims. (Cl. 24—241.)



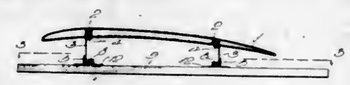
1. A chain connecter comprising a body having a hook in one end and an eye in the other end, and an opening intermediate the eye and hook, and a locking lever having a flexible tail formed with a laterally extending terminal arranged to be snapped into the said opening.

1,474,681. PLATFORM SCALE. JOSEPH J. MAGRADY, Chicago, Ill. Filed Aug. 11, 1922. Serial No. 581,168. 3 Claims. (Cl. 265—71.)



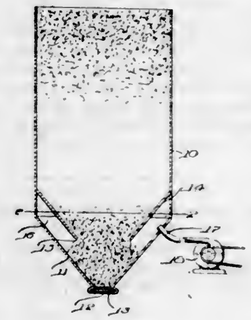
1. In platform scales, a centrally located transversely extending beam actuating lever, a pair of connecting levers pivotally supported at their outer ends and extending longitudinally in alinement upon opposite sides of, and connected at their inner ends to, the said beam actuating lever at a point intermediate the ends of the latter, and main supporting levers converging in groups adjacent to the outer ends of said connecting levers, each of said main levers being independently mounted and connected at the center of its respective group to the respective connecting lever intermediate the ends of the latter.

1,474,682. ADVERTISING SIGN. HARRY W. MITCHELL and PETER LA GRASSA, New York, N. Y., assignors to Night Aero Advertising Corporation, New York, N. Y., a Corporation. Filed July 3, 1923. Serial No. 649,346. 3 Claims. (Cl. 40—127.)



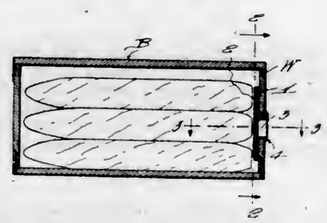
3. A sign adapted for carriage by an aircraft, comprising a plurality of bars having hangers for supporting them horizontally under a supporting plane of the aircraft, said bars having longitudinal slots, letters contacting with the lower sides of said bars, and attaching bolts for said letters passing through the latter and said slots.

1,474,683. VENTILATING STORAGE BIN. FRANK MORTON, Muskogee, Okla. Filed Dec. 2, 1921. Serial No. 519,565. 2 Claims. (Cl. 34—34.)



2. A bin comprising an upright hollow body, a hopper-shaped bottom therefor having a normally closed outlet opening, a false bottom located above and in spaced parallel relation to said first named bottom and likewise formed with a discharge opening registering with said first named opening, a pipe leading through said first named bottom near one outer edge thereof and communicating with the space between the two bottoms, and means for forcing air under pressure through said pipe.

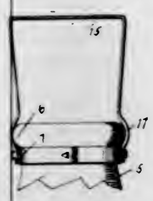
1,474,684. CIGAR MOISTENER. RODNEY B. OSTERHOUDT, Kingston, N. Y. Filed Dec. 9, 1921. Serial No. 521,235. 1 Claim. (Cl. 131—30.)



A cigar moistener comprising an apertured plate bent between its ends to form a channel-shaped pocket for reception of a piece of absorbent material, the outer wall of said pocket being designed to bear against the inner face of one side of a cigar box, said one side of the pocket being formed intermediate its ends with an integral out-

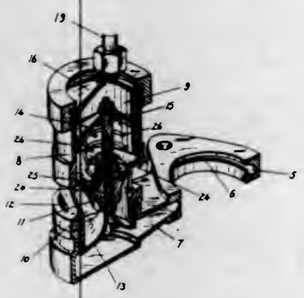
wardly extending air intake neck which is in turn formed at its end with a retaining bead or flange, said neck being designed to extend through an opening in said one side of the box.

1,474,685. MILK-BOTTLE HANDLE. WILLIAM E. PARNELL, St. Paul, Minn. Filed Oct. 4, 1921. Serial No. 505,347. 2 Claims. (Cl. 215—100.)



1. The combination with a milk bottle including a neck having an enlarged bead on the upper end thereof, of a carrier for the bottle comprising a band adapted to encircle the neck below the bead, a pair of diametrically disposed loops carried by the band disposed inwardly of the bead, a bail including a pair of arms having the lower terminals thereof connected with the loops, and arcuate bowed portions formed in the arms of the bail for encircling and frictionally engaging the bead on the bottle neck, whereby central movement of the bail is prevented.

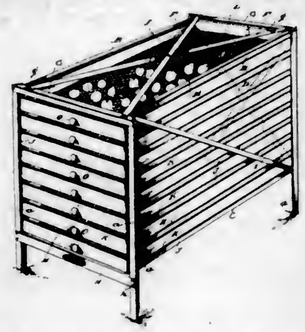
1,474,686. AUTOMATIC FUEL-ECONOMIZING APPARATUS FOR INTERNAL-COMBUSTION ENGINES. ROBERT PLATT-HEPWORTH, Paddington, Sydney, New South Wales, Australia. Filed June 7, 1923. Serial No. 643,986. 5 Claims. (Cl. 123—124.)



1. An automatic fuel economizing device for use with internal combustion engines comprising an air inlet valve adapted to admit air through a passage to the induction pipe, a piston attached to said valve operating in a separate chamber, movement of said piston being controlled by communication either with the induction pipe or an air supply.

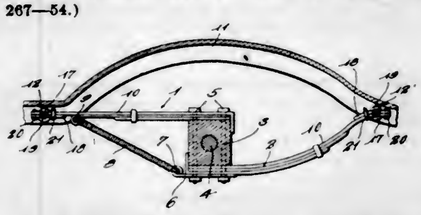
1,474,687. FRUIT DRIER. JAMES BUCHANAN RABY, Jr., York, Pa. Filed May 6, 1921. Serial No. 467,485. 6 Claims. (Cl. 34—39.)

1. In a fruit drier, a skeleton frame comprising hollow triangular front and rear corner posts, inverted longitudinal angle irons including horizontal and vertical flanges connecting said corner posts, the horizontal flanges extending inwardly and constituting tray racks and supports, transverse cross brace members connecting said rear posts, the members of said brace being pivotally



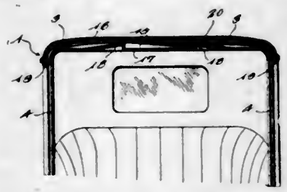
connected at their intersection, and a rigid top squaring cross brace member connected to the said front and rear posts at their upper ends.

1,474,688. VEHICLE SPRING. GEORGE R. RICHARDSON, Greene, N. Dak. Filed Jan. 12, 1922, Serial No. 528,768. Renewed May 31, 1923. 3 Claims. (Cl. 267—54.)



1. In a structure for connecting a spring member with a frame member having spaced side flanges, a master leaf for the spring member having its outer end portion provided with a socket, a stem carried by and extending between the flanges of the frame member, a bearing ball carried by said stem and fitting into said socket, and a cap connected with the outer end portion of the master leaf and having a socket receiving the bearing ball whereby the spring will have its outer end mounted for universal movement.

1,474,689. CLOSED AUTOMOBILE BODY. RAYMOND C. RUPP, Kendallville, Ind. Filed Dec. 18, 1922. Serial No. 607,646. 6 Claims. (Cl. 296—140.)



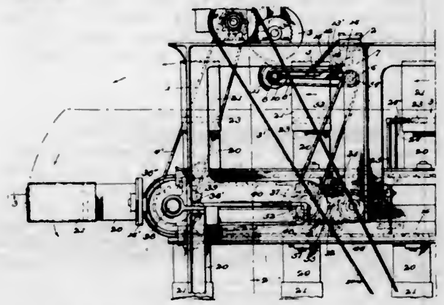
1. A closed automobile body having a doorway, a door in the doorway, a vertically movable curtain above the door, horizontal guides under the top of the body for receiving said curtain when raised and moved to an inoperative position, a vertical guide at one side of the doorway for engaging one edge of the curtain when lowered, and a second vertical guide for the other edge of the curtain positioned at the opposite side of the doorway, said second vertical guide being positioned at the hinge side of the doorway and having its upper end mounted for turning movement and its lower end connected with the door to cause movement of the guide with the door when the curtain is raised to the inoperative position above said guides.

2. A closed automobile body, opposed side curtains slidable from a vertical operative position to a horizontal inoperative position beneath the top, and sets of horizontal guides for engaging the curtains and supporting the curtains in the horizontal position with the inner end portions of the curtains in overlapping relation, said sets of guides including lower strips extending beneath the curtain and having cam portions for guiding the curtains into overlapping relation.

1,474,690. DETERGENT. HARRY SPURRIER, Detroit, Mich., assignor of one-half to Henry M. Lane, Detroit, Mich. Filed May 31, 1921. Serial No. 473,823. 3 Claims. (Cl. 87—5.)

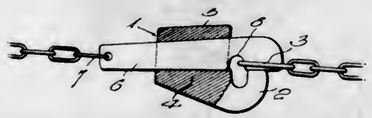
1. As a detergent, a composition substantially consisting of mechanical wood pulp and neutral soap free from abradants.

1,474,691. FLAP LIFTER FOR CARTON-SEALING MACHINES. WILLIAM L. TAYLOR and CHARLES F. RICHARDS, Battle Creek, Mich., assignors to Johnson Automatic Sealer Co., Ltd., Battle Creek, Mich., a Partnership Association Limited of Michigan. Filed Oct. 14, 1921. Serial No. 507,686. 8 Claims. (Cl. 93—44.)



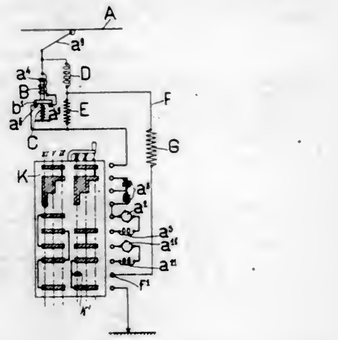
5. In combination, a glue roll, an arcuate-shaped flap-supporting member, means for periodically moving said member into flap-engaging position, and means for yieldingly pressing said member toward said glue roll.

1,474,692. TIRE-CHAIN COUPLING. CHARLES W. THURAU, Oil City, Pa. Filed Mar. 26, 1923. Serial No. 627,716. 1 Claim. (Cl. 24—238.)



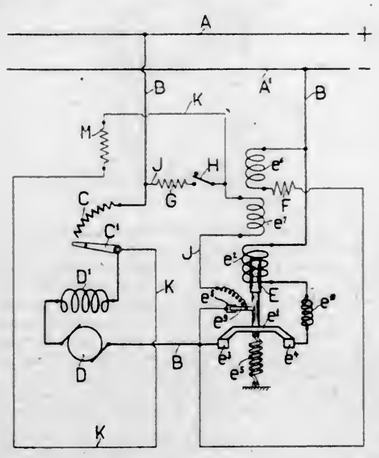
A chain coupling comprising an open ended sleeve having a longitudinal tapered bore and being provided at one end of said bore with an integral hook for engagement for one end of the chain, and a tapered slidable bolt passing through the bore of said sleeve and adapted to be connected at one end with the other end of said chain, the opposite end of said bolt normally closing said hook and being provided with a notch for receiving the adjacent end of the chain when moving it to and from said hook.

1,474,693. OVERLOAD CIRCUIT BREAKER. FELIX TOBIEN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Mar. 27, 1922. Serial No. 547,262. 2 Claims. (Cl. 172—179.)



1. The combination with an electromagnetic overload circuit-breaker for a plurality of motors to be selectively connected in series or in parallel, comprising two stationary contact-points, a movable contact member adapted to be acted upon by a power accumulator, a releasing coil and a holding coil, of a controller and an auxiliary switch, said holding coil being placed in a branch circuit line adapted to be put under the full voltage of the current feeding system and the auxiliary switch being adapted to close the said branch circuit line towards the end of the starting operation of the motors when in series connection.

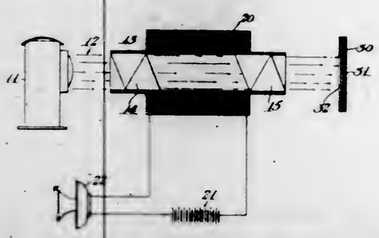
1,474,694. OVERLOAD CIRCUIT BREAKER. FELIX TOBIEN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed June 12, 1922. Serial No. 567,677. 4 Claims. (Cl. 172—179.)



1. The combination with an overload circuit-breaker for an electric circuit, comprising a movable contact member adapted to be acted upon by a power accumulator, a main current releasing coil and a holding coil wound to act in the same sense as the main current releasing coil, of another releasing coil likewise wound to act in the same sense as the main current releasing coil, an

auxiliary switch connected in series with the second releasing coil, and electric connections between the second releasing coil and the circuit to be protected for allowing the second releasing coil to receive the current necessary for releasing the overload circuit-breaker upon closing the said auxiliary switch, and to become currentless upon opening the overload circuit-breaker.

1,474,695. METHOD OF PRODUCING SOUND RECORDS. DELMAR A. WHITSON, Los Angeles, Calif. Filed Feb. 10, 1920, Serial No. 357,679. Renewed Apr. 30, 1923. 4 Claims. (Cl. 274—5.)



1. An apparatus for recording sound comprising a luminous source; a primary polarizer for polarizing in a certain plane a beam of light from said source; a secondary polarizer set to interrupt a portion of said polarized light; sound controlled means for rotating the plane of polarization of said light between said polarizers; and means for recording the intensity of the light passing the secondary polarizer.

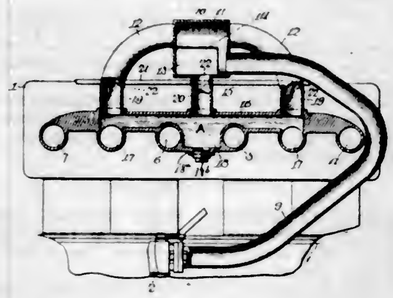
1,474,696. EMERGENCY HANDLE FOR DOMESTIC RECEPTACLES. FREDERICK W. WILKES, Sparkhill, Birmingham, England. Filed Mar. 7, 1922. Serial No. 541,632. 2 Claims. (Cl. 65—18.)



1. An emergency handle for domestic receptacles, having a bow shaped portion for engagement by the fingers; a hook portion at one end of said bow shaped portion, having two spaced fluted limbs to engage over the edge of the receptacle; a shoulder on the other end of the bow-shaped portion to bear against the side of the receptacle; and an elastic band disposed around said shoulder to prevent accidental slipping movement thereof on the side of the receptacle; all arranged so that a handle of a standard size can be applied to and gives a secure three point grip upon receptacles of greatly varying size.

1,474,697. INTERNAL-COMBUSTION ENGINE. IRVEN H. WILSEY, Chicago, Ill., assignor, by mesne assignments, to Wilsey Incorporated, a Corporation of Delaware. Filed Apr. 26, 1919. Serial No. 292,919. 5 Claims. (Cl. 123—122.)

1. An internal-combustion engine having, in combination, engine cylinders, a carburetor, a separator, a conduit extending from the carburetor to the separator, two passageways extending from the upper portion of the separator to the inlets of the engine cylinders, a heater communicating with said inlets, a passageway extending from the lower portion of the separator to the heater, a



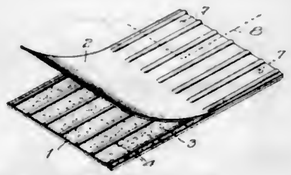
valve in each passageway, and means for simultaneously operating said valves, the valves in the first mentioned passageway being arranged to close as the valve in the other passageway opens, and vice versa.

1,474,698. PICTURE AND PATTERN BEHIND WHICH A LIGHT-REFLECTING METALLIC SHEET IS LAID. ERNEST WINTER, Cannstatt, near Stuttgart, Germany. Filed Jan. 15, 1914. Serial No. 812,862. 2 Claims. (Cl. 41—22.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



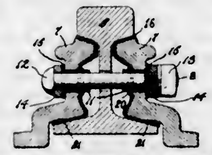
1. A picture comprising a reflecting backing and a celluloid film having a picture printed in transparent colors on its polished side adjacent said backing and a matt outer surface.

1,474,699. REENFORCED BOARD. CHRIS WISBROCK, West Chicago, Ill. Filed Apr. 21, 1920. Serial No. 375,565. 2 Claims. (Cl. 154—53.)



1. A board consisting of a plurality of plies of non-metallic water proof fibrous material, metallic reenforcing means arranged between said plies and contacting therewith along predetermined lines on the entire area of said plies, there being predetermined unreenforced areas between said predetermined lines and enclosed thereby, one of the plies having an end turned over transversely of the ends of said reenforcing means, and overlapping the said ends and an edge of the board and enclosing the same, and a binder for securing the parts of the board together.

1,474,700. RAIL-JOINT INSULATION. CHARLES D. YOUNG, Philadelphia, Pa. Filed May 25, 1921. Serial No. 472,567. 4 Claims. (Cl. 238—159.)



1. The combination of a rail joint bar, holding bolts therefor, and an insulating liner, said bar and liner having interengaging portions adjacent said bolts adapted to prevent shifting of the liner, but being otherwise free for relative movement lengthwise of the bar.

1,474,701. SPRING ROPE SOCKET. EUGENE C. ARCHIBALD, Council Bluffs, Iowa. Filed Apr. 6, 1920. Serial No. 371,703. 1 Claim. (Cl. 255—26.)



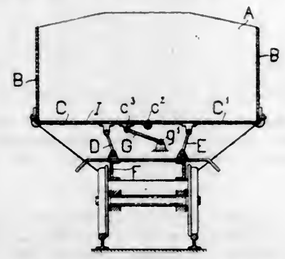
A bit holder and cable connection therefor comprising a casing carried by the upper end of the bit holder, a head carried by the upper end of the casing, a shaft slidable in the head and disposed within the casing, a head carried by the lower end of the shaft and engaging the bit holder, a coiled spring surrounding the shaft and interposed between the casing head and shaft head, the upper end of the shaft above the casing head being provided with a reduced wrench engaging portion, said shaft above the wrench engaging portion being enlarged and threaded and a cable socket threaded on the threaded portion of the shaft and spaced from the upper end of the casing head.

1,474,702. PROCESS AND MEANS FOR PLUCKING POULTRY. GEORGE W. ATKINSON, Samuels, Idaho. Filed Feb. 17, 1923. Serial No. 619,699. 12 Claims. (Cl. 17—11.)



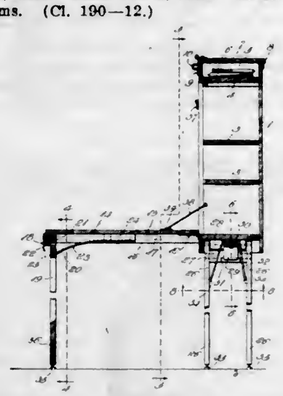
1. A device of the type described comprising a chamber adapted to receive fowls, means for exhausting the air from said chamber, said means consisting of a vacuum tank in communication with said chamber, a valve for controlling the passage of air from the chamber into the tank, and an electrically operated trip adapted to control the operation of said valve, said valve being adapted to close automatically after the air has passed from the chamber into the tank.

1,474,703. SELF-DISCHARGING WAGON. KARL BARTH, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Apr. 26, 1921. Serial No. 464,690. 3 Claims. (Cl. 105—246.)



1. In a self-dumping vehicle comprising a receptacle with a plurality of hingedly connected bottom-forming members and a supporting under frame for said receptacle, a supporting link for each bottom-forming member, said supporting link being pivotally attached to said member and to said frame, and a transverse guide link pivotally connected to one of said bottom-forming members and to said frame and adapted to guide the hinged edges of said bottom-forming members in a substantially vertical line.

1,474,704. AUTOMOBILE CABINET. CARL A. BEACH, Denver, Colo. Filed Oct. 5, 1922. Serial No. 592,498. 6 Claims. (Cl. 190—12.)

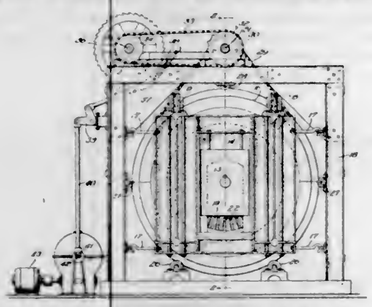


1. In a structure of the character described, a cabinet open at its front and top, a cover for the open top hingedly mounted at one edge, a closure door for the open front of said cabinet hingedly mounted at its lower edge, a fastener carrier carried by said cabinet, and means carried by the free edge portions of said door and cover for engaging said fastener carrier to hold the door and cover closed.

1,474,705. AUTOMATIC ROTARY HEATING FURNACE. GUSTAVE BLUEMEL, Toledo, Ohio. Filed Aug. 22, 1921. Serial No. 494,203. 16 Claims. (Cl. 263—7.)

1. A rotary furnace comprising a circular casing and a heating chamber enclosed therein, a fire brick wall dis-

posed across said heating chamber and provided with openings therein to receive and support the material to



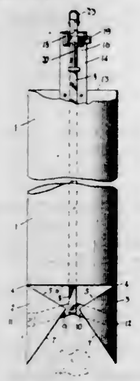
be heated and to permit the passage of gases therethrough from one side of said wall to the other along the surface of the material, and means for revolving the casing.

1,474,706. THEFT-DETECTING MEANS. EUGENE F. CARDELL, Providence, R. I. Filed Oct. 12, 1922. Serial No. 594,055. 4 Claims. (Cl. 40—2.2.)



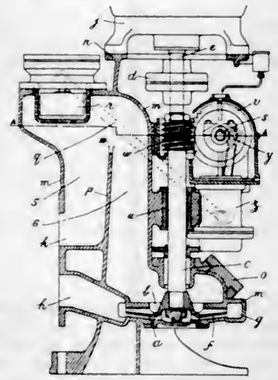
1. A system of identifying manufactured articles, which consists in identifying each article with indicia made up of a certain predetermined number of characters, each character being made up of a predetermined number of elements.

1,474,707. SAND BUCKET. MARTIN LUTHER CROWL, Pueblo, Colo. Filed Mar. 2, 1922. Serial No. 540,461. 2 Claims. (Cl. 166—19.)



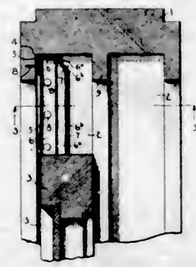
1. A device of the character described comprising a hollow cylindrical body member, a pair of bucket blades hingedly mounted on the lower end of said body member, arranged to cooperate with one another to close the lower end of said body member, a central shaft disposed in said body member, a pair of links connected to the lower end of said central shaft and to the inner surfaces of the bucket blades respectively, a bail carried by said central shaft at its upper end for engagement with a cable or the like, and means associated with said central shaft for locking said blades apart on said body member when said body member is suspended in a well casing or the like, said means comprising a bail disposed at the upper end of said body member, a band spring carried by said last named bail and normally held out of engagement with said central shaft, a bolt disposed on said central shaft and adapted to engage said spring when said spring is moved manually toward said shaft to prevent the elevation of said shaft when said device is suspended from a cable in the manner described.

1,474,708. CENTRIFUGAL PUMP. JOHN WHITEHEAD WILSON DRYSDALE, Yoker, near Glasgow, Scotland, assignor to Drysdale & Company, Limited, Yoker, near Glasgow, Scotland. Filed Mar. 17, 1922. Serial No. 544,483. 3 Claims. (Cl. 103—113.)



1. In a centrifugal pump comprising a motor driven impeller, a casting for housing said impeller, said casting having an inlet and exhaust passage formed therein, said inlet passage being divided into two portions, the junction between said portions being formed with an air chamber, and means for withdrawing air from said chamber.

1,474,709. METALLIC WEATHER STRIP. LYLE H. ETTER, Marietta, Ohio. Filed Feb. 14, 1922. Serial No. 536,606. 6 Claims. (Cl. 20—69.)



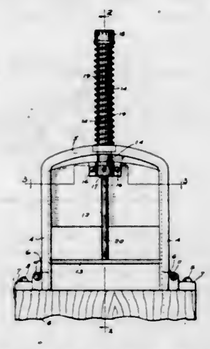
1. A weather strip composed of a length of resilient metal bent longitudinally to provide faces or portions of different widths, the angle between the same being slightly less than ninety degrees, the face or portion of greater width having its free edge portion bent further toward the portion of lesser width to provide a longitudinally disposed resilient track.

1,474,710. LUNG PROTECTOR. ROBERT GAIER, Hazleton, Pa. Filed May 26, 1920. Serial No. 384,448. 1 Claim. (Cl. 128—198.)



A lung protector comprising a pair of sponge plugs connected by a thread having its ends secured to the respective plugs, whereby the latter may be introduced into the nostrils of the user, with the thread embracing the septum of the nose, said sponge plugs having minute passages artificially formed therethrough in different directions.

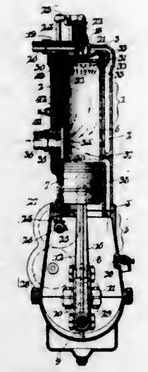
1,474,711. POULTRY BEHEADER. PHILIP J. HAAS, Omaha, Nebr. Filed Apr. 9, 1923. Serial No. 630,772. 3 Claims. (Cl. 17—12.)



1. In a device of the class described, an inverted U-shaped frame having vertical legs provided in their adjacent sides with guide-grooves, a blade movable vertically in said grooves, a tubular stem secured to said blade, a neck-bar arranged to move parallel with and adjacent to said blade, a rod extending from said neck-bar and fitting slidably within said tubular stem, and a spring inclosed by said stem and pressing upon the end of said rod.

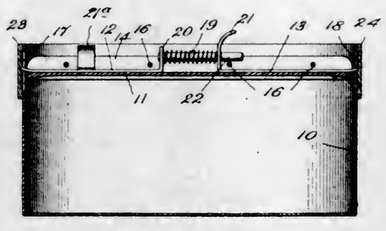
1,474,712. INTERNAL-COMBUSTION MOTOR. ORA F. HAIBE, Uniontown, Pa. Filed Oct. 31, 1921. Serial No. 511,748. 1 Claim. (Cl. 123—50.)

An internal combustion engine of the type described comprising a crank case, a jacketed cylinder having an integral enlarged head end forming a fuel compression pocket with the jacketing extended thereover, a fuel intake valve in said cylinder head, the cylinder wall having an exhaust port, said cylinder being extended into the pocket to form a flange, said flange having apertures communicating the pocket with the cylinder, a sleeve slidably fitted in the cylinder closed at its head end and having apertures for registration with the first mentioned apertures and communicating the pocket with the interior of the sleeve when the latter is at its inner position, a piston slidably fitted in the sleeve, a crank shaft having opposed offsets, a pitman connection between the piston and one offset, a pair of pitman connections between the other offsets and sleeve, the cylinder wall having a passage for air connecting said cylinder with the crank case, said passage connecting with the inner bore of said sleeve through the medium of an aperture formed when the piston is at the end of the power stroke and the sleeve is simultaneously at the end of the compression stroke and in communication with the fuel compression pocket, a spark plug mounted in a recess in the cylinder wall, the sleeve



having openings for registration with the spark plug recess and exhaust port, an intake valve opening into the pocket, and means for operating said intake valve.

1,474,713. HAM BOILER. ADOLF GÖBEL, FREDRICK HARNISCH, and EMIL C. JANKE, Brooklyn, N. Y. Filed July 24, 1922. Serial No. 576,929. 5 Claims. (Cl. 100—57.)



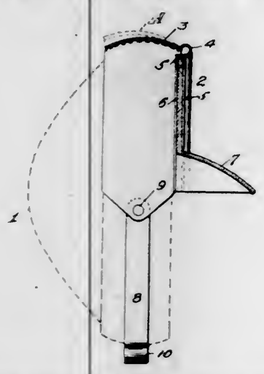
1. Apparatus of the character described comprising a container, a compressing member fitting therein, a slidable catch member at each end of the compressing member adapted to secure the same within the container, finger holds on said slidable catch members, and a single spring located between and impinging against said slidable catch members so as to tend to force them apart.

4. In apparatus of the character described, a container, a cover fitting into the same, two slidably mounted plates on said cover having their inner ends turned upward, means for guiding said plates, a spring adapted to force said plates apart, and means on the container to be engaged by the outer ends of said plates.

1,474,714. AUTOMOBILE HEADLIGHT DEVICE. CHARLES A. HARTMANN, San Antonio, Tex. Filed Dec. 14, 1921. Serial No. 522,269. 1 Claim. (Cl. 240—48.4.)

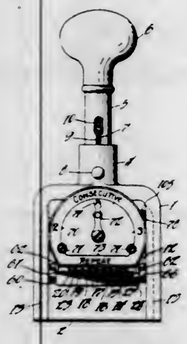
In a device of the character described, the combination of a body formed of resilient material and curved longitudinally and transversely and provided at its forward edge with an integral spring bow substantially circular in cross section and having a free edge portion extending beneath the forward edge portion of the body and provided with depending flanges forming a seat, a dimmer plate for the upper portion of a headlight lens having its peripheral edge portions fitting in

said seat and adapted to be positioned in front of the head-light lens when the body is in place upon the upper portion of the head-light, and a fastener strip



for extending about the lower portion of the head-light and engaging the ends of said body to draw the body into close engagement with the head-light.

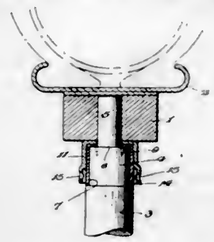
1,474,715. NUMBERING MACHINE. WILLIAM F. HAUPT, Orange, N. J., assignor, by mesne assignments, to The Bates Manufacturing Company, Orange, N. J., a Corporation of New Jersey. Filed Nov. 26, 1921. Serial No. 518,002. 31 Claims. (Cl. 101—85.)



1. In a numbering machine, a series of numbering wheels, pawl means adapted to coact with said wheels in a number of transverse operative positions with respect to the wheels, a pivoted indicator, and means whereby pivotal movement of said indicator will first move said pawl means out of coacting position with respect to said wheels and will then move the pawl means transversely to another operative position, substantially as described.

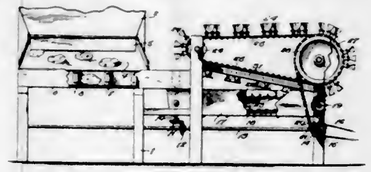
1,474,716. SPOKE TIGHTENER. SAMUEL ERWIN HESTAND, Comanche, Tex. Filed July 7, 1922. Serial No. 573,342. 1 Claim. (Cl. 301—69.)

The combination with a spoke having a reduced outer end and provided with a tenon extending axially therefrom, and a felly receiving the tenon, of an inner thimble fitting around the reduced end of the spoke and over the same and provided with inwardly projecting piercing teeth embedding themselves in the end of the spoke, said thimble being exteriorly threaded, and an outer thimble fitting around and over the inner thimble with its outer end abutting the rim around the tenon, said outer thimble being internally threaded



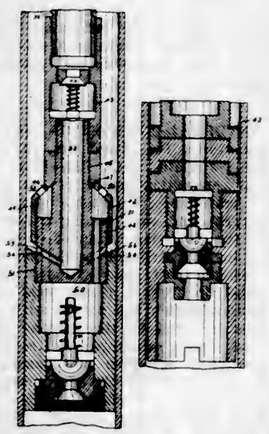
to engage the inner thimble and having its inner end annularly offset to be free of the inner thimble and constructed to be engaged by a turning tool.

1,474,717. POTATO CUTTER. RALPH H. A. HOLLER, Drayton, N. Dak. Filed Apr. 3, 1923. Serial No. 629,644. 8 Claims. (Cl. 146—106.)



1. A potato-cutting machine comprising a feeding conveyer, and a plurality of cutters mounted above the conveyer to travel with the conveyer and progressively approach the same toward the discharge end thereof.

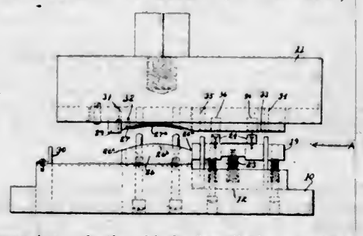
1,474,718. PUMP. GRANVILLE A. HUMASON, Houston, Tex., assignor to Texas Pump & Supply Company, Houston, Tex., a Corporation of Texas. Filed Sept. 23, 1921. Serial No. 502,721. 1 Claim. (Cl. 103—5.)



The combination with a working barrel of a plunger therein, said plunger including a valve casing whose upper end is reduced, a liner extending up through the reduced upper end of said casing and forming a tight joint therewith, an enlarged head on the lower end

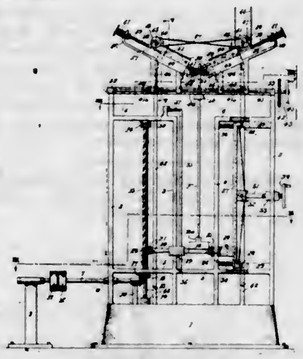
of said liner threaded into said casing and separating the casing into upper and lower chambers, said head being provided with vertical passageways connecting said chambers, and the upper chamber walls having outlet ports, valves controlling the flow of fluid upwardly through said casing, said liner having a fluid passageway extending from its upper end down into said head, said passageway separating into upwardly inclined ducts which lead through the head, said casing having an annular space into which the ducts terminate, an annular cutting edge carried by said casing beneath said space, a tubular sucker rod connected to the upper end of said plunger and a downwardly opening valve in said sucker rod.

1,474,719. APPARATUS FOR MAKING SHANK REENFORCES. HELMER G. JOSEPHSON, Lynn, Mass., assignor to Freeman J. Winchell, Nahant, Mass., John L. Shevenell, Haverhill, Mass., and Helmer G. Josephson, trustees, Lynn, Mass. Filed June 23, 1920. Serial No. 391,011. 3 Claims. (Cl. 113—42.5.)



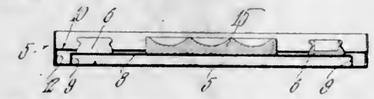
1. Apparatus of the kind described, comprising a lower die base equipped with upstanding punches located at each side of a line of strip material feed and adapted to punch out prongs in the outer lateral edges of strip material, a forming die borne by said base in advance of said punches in the line of material feed, and an upper relatively movable die head equipped with die members co-operative with said punches and with said forming die respectively to punch and form strip material for making shank reenforce pieces, said die base and die head equipped with co-operative portions of a severing device located to sever the strip directly back of the prongs formed thereon.

1,474,720. FILE CUTTER. SAM KARPAL, Holmesburg, Pa., assignor of one-half to John Zach, Philadelphia, Pa. Filed Oct. 19, 1922. Serial No. 595,577. 4 Claims. (Cl. 76—15.)



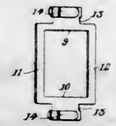
1. In a file cutting machine, a frame structure including a plurality of perpendicular guide bars, a power operated perpendicular worm shaft journaled in the frame structure, a vertically shiftable file blank supporting block guided by the frame bars and capable of limited lateral movement, a rectangular frame carried by said block enclosing one of the frame bars, an arm carried by said rectangular frame and having a swiveled head associated with the worm shaft, a cylinder rotatably supporting the opposite side of said block, a rack and gear connection between said cylinder and an adjacent frame bar, a screw adjustable plate engaging the cylinder for moving the swiveled head into engagement with the worm shaft, and file cutting means associated with the upper end of the frame structure.

1,474,721. PAINTING OUTFIT. WILLIAM E. KING, Springfield, Mass., assignor to Milton Bradley Company, Springfield, Mass., a Corporation of Massachusetts. Filed Mar. 23, 1923. Serial No. 627,044. 5 Claims. (Cl. 41—4.)



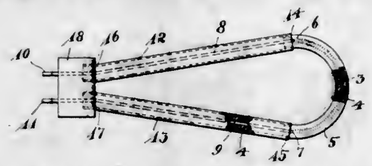
1. A holder for paint cups or the like comprising a box, a plate spaced above the bottom wall of the box and apertured to receive and relatively locate a plurality of said cups, and a platform interposed between said plate and bottom wall and spaced from said parts for supporting said cups with their upper portions projecting through said apertures.

1,474,722. KNIFE GUARD. MARTIN KOZLOWSKI, Masontown, Pa. Filed Apr. 29, 1922. Serial No. 557,267. 5 Claims. (Cl. 30—20.)



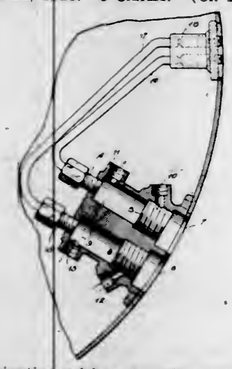
1. In a paring and slicing knife, a guard comprising a metallic plate having an opening therethrough whereby a guard frame is formed comprising end and side members, said side members being bent transversely in opposite directions, and means integral with said plate for detachably holding said frame upon the blade of a knife for presenting the edge of the latter toward either one of said side members, said means comprising a pair of clips of said metallic plate, the clips upon one side of said plate being nearer the edge of the blade than the clips upon the opposite side of the plate, said pairs of clips being transversely curved in opposite directions.

1,474,723. ELECTRIC HEATING DEVICE. MARCUS MICHAEL LEVINSON, Pasadena, Calif. Filed Apr. 12, 1921, Serial No. 460,640. Renewed Sept. 10, 1923. 3 Claims. (Cl. 219—76.)



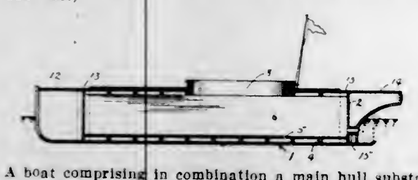
1. In an electric heater, an insulating socket, a casing, so that both ends terminate within the socket insulating material in the casing, a heating coil disposed and embedded centrally within the insulating material within a portion of the casing, and a connecting wire disposed and embedded within the insulating material within the remaining portion of the casing and extending out of the casing before said insulating socket to supply electric current to the insulated coil.

1,474,724. TORPEDO. JAMES W. MCCONNELL, Washington, D. C., assignor to the Government of the United States. Filed Dec. 12, 1921, Serial No. 521,910. Renewed July 21, 1923. 6 Claims. (Cl. 114—20.)



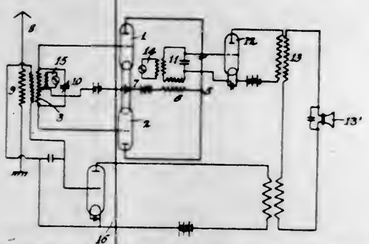
1. In combination with a torpedo provided with passages for fuel and water to the combustion flask, by-passes leading therefrom and communicating with openings in the exterior of the torpedo whereby the contents of the fuel and water system will be exhausted at the end of a predetermined shortened run.

1,474,725. BOAT. JOHN MCLEOD, Downing, Wis. Filed July 6, 1923. Serial No. 649,910. 1 Claim. (Cl. 114—68.)



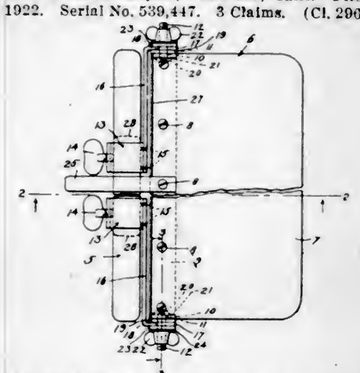
A boat comprising in combination a main hull substantially tubular in form throughout, a transverse bulkhead at either end of said hull, a separable stern portion comprising an air tight chamber, a separable bow portion comprising an air tight chamber, cellular air chambers longitudinally of and within either side of the main hull, a flat deck over the main hull having depending side and end walls attached to the walls of the hull forming longitudinal air chambers above the last mentioned air chambers, and a cock pit within the hull, substantially as described.

1,474,726. METHOD OF AND ARRANGEMENT FOR RECEIVING ELECTRICAL OSCILLATIONS. ALEXANDER MEISSNER, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany, a Corporation of Germany. Filed Aug. 8, 1922. Serial No. 580,519. 9 Claims. (Cl. 250—20.)



1. A method of receiving electrical oscillations which consists in increasing the frequency of the received oscillations, heterodyning the increased frequency to form a beat frequency, and detecting the beat frequency.

1,474,727. ADJUSTABLE VISOR FOR VEHICLE WINDSHIELDS. HENRY D. NATERMAN, Los Angeles, Calif., assignor to A. M. Kupfer, Pasadena, Calif. Filed Feb. 27, 1922. Serial No. 539,447. 3 Claims. (Cl. 296—95.)



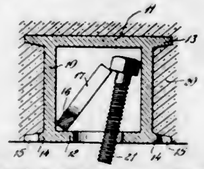
1. In a visor for vehicle wind shields, a pair of visor supporting bearings, a visor mounted to pivot in said bearings, the free ends of said bearings being oppositely disposed and extending inwardly towards each other, and a wind shield clamp secured to each of the free ends of said bearings.

1,474,728. BASKET CARRIER. ROSE H. NELSON, Wessington Springs, S. Dak. Filed Jan. 13, 1921, Serial No. 436,903. Renewed Aug. 4, 1923. 1 Claim. (Cl. 224—5.)



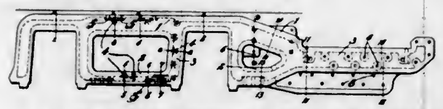
A basket carrier comprising a ring in which a basket is adapted to be supported, vertical parallel members secured to one side of the ring and having screws therein, a pair of vertical members telescoped into the first members and held in adjusted positions by said screws, the upper ends of the second-named vertical members having a curved shoulder engaging bight portion, and a basket having a releasably hinged bottom.

1,474,729. CONCRETE INSERT. JOHN EDWARD OGDEN, Cornwall, N. Y. Filed July 5, 1919. Serial No. 308,687. 2 Claims. (Cl. 22—167.)



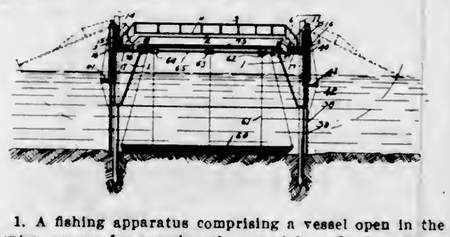
1. The process of forming a concrete insert which comprises embedding a load carrying member within a chamber forming core, casting the body of the insert about said core and with a flange which will prevent escape of the load carrying member from the insert and then removing the core to leave the load carrying member supported on the flange aforesaid.

1,474,730. LOCOMOTIVE FRAME. GEORGE E. PARKS, Detroit, Mich. Filed Aug. 21, 1922. Serial No. 583,218. 2 Claims. (Cl. 105—172.)



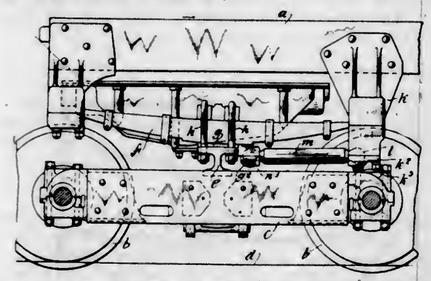
1. A one-piece cast locomotive frame having pedestal openings and including a single rail portion over the pedestal openings and spaced parallel rail portions intermediate the pedestal openings, said single rail portion being box-shape in cross section and said intermediate rail portions being U-shape in cross section, the thickness of the walls of the casting varying in differently shaped cross section so that the sectional areas of said box and U-shaped portions are substantially equal.

1,474,731. FISHING APPARATUS. HENRY PODOLSKY, San Francisco, Calif. Filed June 3, 1920. Serial No. 386,183. 5 Claims. (Cl. 43—103.)



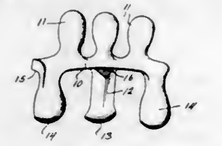
1. A fishing apparatus comprising a vessel open in the center, means for securing the vessel in a fixed position, nets adapted to completely surround the space enclosed by the vessel, means to raise or lower the nets on either side or either end of the vessel, a bottom net adapted to cover substantially the entire space enclosed by the first nets and means to raise said bottom net at will.

1,474,732. SELF-PROPELLED RAILWAY CAR. EDWIN M. POST, Jr., New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 1, 1922. Serial No. 585,597. 4 Claims. (Cl. 105—174.)



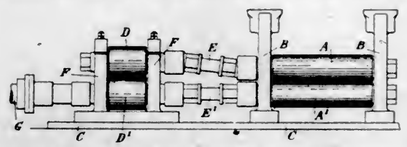
1. In a self-propelled railway car, in combination with the chassis and leading truck bolster, springs connected to the chassis, spring seats connected to the bolster, and a radius rod operatively interposed between the chassis and the bolster to transmit propelling thrust from the frame to the truck.

1,474,733. SPOON HOLDER. HENRY J. RICHARDS, Columbus, Ohio. Filed Dec. 26, 1922. Serial No. 608,928. 1 Claim. (Cl. 65—65.)



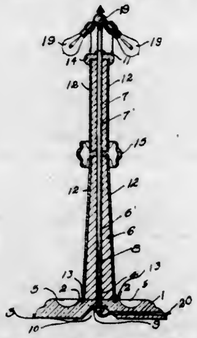
A spoon holder of the character described comprising a longitudinally extending, slightly curved body having at its middle and ends downwardly depending fingers, the end fingers being off-set for the whole length from the plane of the middle finger whereby the end fingers may be disposed on the inside face of a curved wall and the middle finger disposed on the outside face thereof, the middle finger being downwardly and outwardly curved and being transversely rounded on its inner face, the end fingers being transversely rounded on their outer faces and the end fingers being downwardly and inwardly curved, the body forming shoulders at the upper ends of the depending fingers, and spoon engaging fingers extending upward from the body of the holder and spaced from each other, the body and the upwardly and outwardly extending fingers being cast in one piece.

1,474,734. COGGING AND ROLLING MILL FOR IRON AND STEEL. THOMAS BOND ROGERSON, Glasgow, Scotland. Filed Mar. 5, 1921. Serial No. 450,054. 3 Claims. (Cl. 80—54.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In an iron or steel cogging or rolling mill the combination with the mill rolls of friction driving means comprising a housing, heavy toothless driving pinions one for each roll mounted one above another in constant frictional contact at all times in said housing, a coupling between each pinion and its roll, and means for connecting one of the pinions with a suitable driving source.

1,474,735. ELECTRIC LAMP. ALFRED J. SANDERS, Spokane, Wash. Filed July 22, 1922. Serial No. 576,817. 1 Claim. (Cl. 240—81.)



The combination with a grooved base having a central opening, of a pedestal section having reflecting plates with their lower edges in said grooved base, an upper

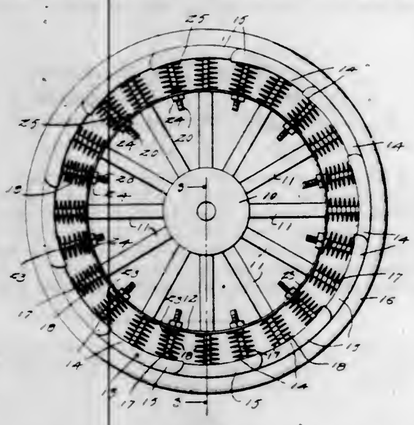
pedestal section having reflecting plates, an intermediate collar joining said sections, a tubular clamping bolt passed through said base and sections, clamp nuts on said bolt, electric bulbs supported at the upper end of said bolt, and electric wires encased in said bolt.

1,474,736. INSULATOR. FERDINAND SCHAUB, Jersey City, N. J.; Henrietta W. Schaub executrix of said Ferdinand Schaub, deceased. Filed May 21, 1920. Serial No. 383,109. 15 Claims. (Cl. 173—314.)



1. An insulator formed of a frangible material having spaced portions corresponding to the base and cap portions of a two-piece insulator integrally connected by a wall, said wall being adapted to be broken under pressure to separate the portions connected thereby and provide a two-piece insulator.

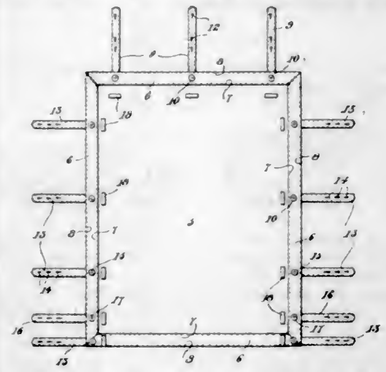
1,474,737. RESILIENT WHEEL. DONALD H. SMITH, Adelaide, South Australia, Australia. Filed Sept. 27, 1922. Serial No. 590,894. 4 Claims. (Cl. 152—30.)



1. A wheel having a tire-mounting rim, said rim being in sections overlapping one adjacent section and underlapping the other adjacent section, means providing a slip connection between said sections, an inner rim, adjustable bolts extending from the inner rim, said sections having slots through which the bolts pass, and cushioning springs intermediate the sections and the inner rim.

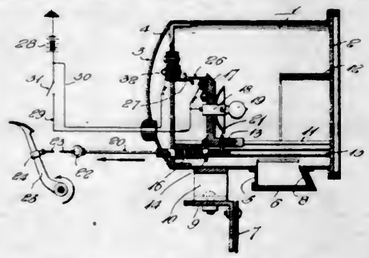
1,474,738. CHILD'S SAFETY CRIB BLANKET. MATHEW THIERJUNG, Cleveland, Ohio, assignor of one-half to Vincent Bika, Cleveland, Ohio. Filed Apr. 22, 1922. Serial No. 556,003. 1 Claim. (Cl. 5—336.)

A crib blanket of the class described including a sheet of material rectangular in form and bound upon all edges by contiguous binding tapes stitched together at their inner and outer edges with the stitching of the inner edges of the tape passing through said sheet at the extreme edges of the latter, a plurality of straps attached to the foot edges and side edges of the blanket by stitching, said straps disposed with their inner ends between the binding tape strips, buttons upon the upper



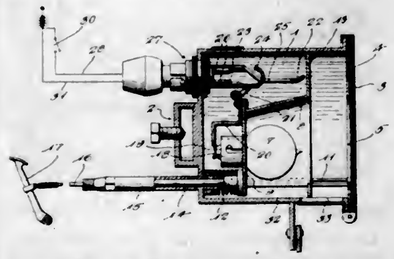
binding tape at the inner ends of the straps, and retaining loops upon the blanket sheet inwardly of said buttons.

1,474,739. STOP SIGNAL AND REAR LIGHT. STEPHEN J. THOMAS, Youngstown, Ohio. Filed Apr. 17, 1922. Serial No. 554,274. 10 Claims. (Cl. 177—327.)



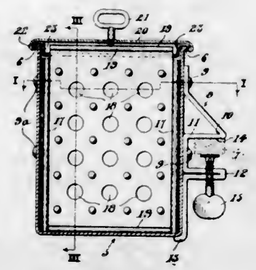
10. A combined tail light and danger signal comprising a casing having a wall including a tail light portion and a danger signal portion, a lamp, means for normally confining the light from said lamp to said tail light portion including a carrier for said lamp movable from a position in which the lamp illuminates the tail light only to a second position in which it illuminates the danger signal.

1,474,740. TAIL LIGHT AND STOP SIGNAL. STEPHEN J. THOMAS, Youngstown, Ohio. Filed Oct. 26, 1922. Serial No. 597,126. 5 Claims. (Cl. 177—327.)



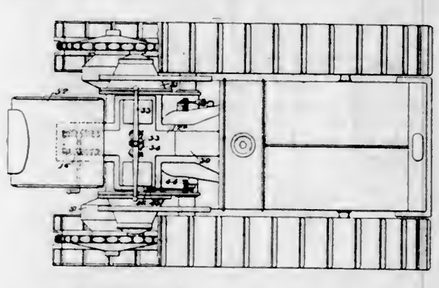
1. A tail light and signal comprising a casing, a lens closing the rear end of said casing, a bulb carrier in the casing movable forwardly and rearwardly and including a rearwardly opening hood, a bulb within said hood movable with said carrier, and means for normally holding said carrier back with said hood against the lens, whereby to illuminate a relatively small part of the latter for a tail light, said carrier being movable forwardly to space said hood from the lens and illuminate a greater area of said lens.

1,474,741. BUTTER CHURN. WILLIAM J. TRESNAK, Lake Worth, Fla. Filed Mar. 6, 1923. Serial No. 623,143. 6 Claims. (Cl. 259—74.)



1. In a device of the character described, a receptacle, rivets secured to the side walls of said receptacle having heads positioned within the latter, removable partitions guided by said rivet heads for dividing the receptacle into compartments, restricted communication formed between said compartments, and means for supporting said receptacle.

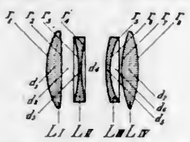
1,474,742. STEERING AND TRANSMISSION MECHANISM. WILLIAM TURNBULL, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Jan. 4, 1922. Serial No. 526,968. 10 Claims. (Cl. 180—9.2.)



1. In a vehicle having friction steering clutches, control means for both clutches comprising a steering post, a reciprocating rack operatively connected thereto, a shifting member for each clutch having its free end disposed in the path of said rack, whereby the clutches may be disengaged independently but not simultaneously.

1,474,743. FOUR-LENS OBJECTIVE. FRANZ URBAN, Steglitz, near Berlin, Germany, assignor to the Firm of Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Filed Mar. 9, 1922. Serial No. 542,227. 2 Claims. (Cl. 88—57.)

1. A spherically, chromatically, astigmatically and comatically corrected objective built up of two outer biconvex lenses made of highly refractive baryta-crown glass and two concave inner lenses, one of said concave inner lenses being biconcave and the other convex concave, the latter turning its convex surface towards the biconcave lens, both said concave inner lenses having substantially higher dispersive property than the two



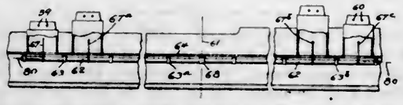
outer biconvex lenses, the dispersive properties of the inner lenses being such that the total of the differences of the indices of refraction n_G, and n_D for the lines G' and D of the spectrum for both said lenses is not less than 0.04.

1,474,744. COMBINATION CHECK PEN PROTECTOR. ANICETO VISITACION, Brooklyn, N. Y. Filed Nov. 12, 1921. Serial No. 514,451. 4 Claims. (Cl. 101—22.)



1. A check protector comprising a cylindrical type magazine having type receiving and retaining grooves in its periphery, a printing wheel associated therewith, and means to move the wheel into concentric or eccentric relation to the magazine.

1,474,745. DIRECTOR FIRING SYSTEM. JOHN BERNARD WALKER, Brooklyn, N. Y., and Alexander Russell Bond, Plainfield, N. J. Filed Nov. 22, 1919, Serial No. 339,941. Renewed July 18, 1923. 4 Claims. (Cl. 89—4.)



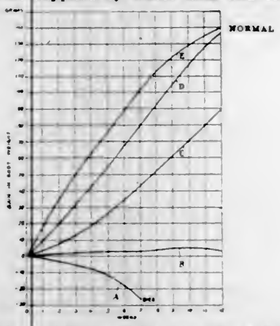
1. In a vessel subject to torsional movements, a rigid member secured to said vessel at one point while the vessel may move relatively thereto at other points, and means for indicating relative torsional movements of the said vessel with respect to said rigid member at the said points thereon.

1,474,746. MANUFACTURE OF LEAVENED BREAD. GEORGE SUMMERVILLE WARD, New York, N. Y. Filed Apr. 18, 1923. Serial No. 632,872. 8 Claims. (Cl. 99—10.)

3. A white leavened bread having its texture, lightness and flavor comparable with modern bread made from bolted white wheat flour, said bread containing 10–12% solids of whole milk, 5% of a preparation rich in water-soluble vitamine B, 3% of cleo oil and ½–1% of innocuous calcium salts, all calculated on the weight of the flour.

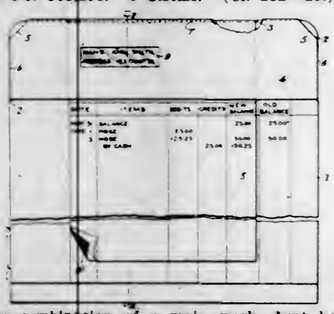
6. A white leavened bread having its texture, lightness and flavor comparable with modern bread made from

bolted white wheat flour, said bread having its entire moisture content supplied by whole milk and containing



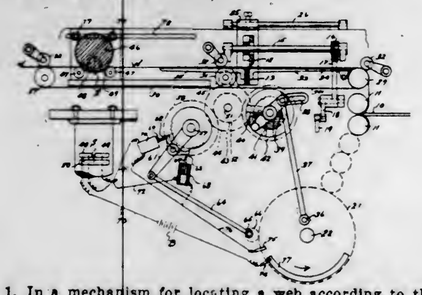
in addition substantial quantities of a preparation rich in water-soluble vitamine B, a substantial quantity of added milk proteins and innocuous calcium salts.

1,474,747. COLLATED WORKSHEETS. JOHN ASHLAND WHERRY, New Orleans, La. Filed June 14, 1922. Serial No. 568,191. 4 Claims. (Cl. 282—29.)



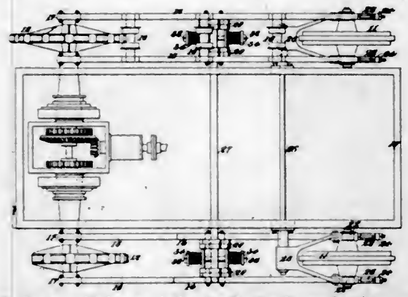
1. The combination of a main work sheet having a notch in its top edge and notches in its side edges near the top, a supplementary work sheet adapted to be folded over longitudinally and engaged at the fold with the top edge of the main sheet within the notch therein, and a continuous removable band of paper or the like surrounding the upper portion of the main sheet and engaging the notches in the side edges of the main sheet to secure the sheets together.

1,474,748. WEB-HANDLING MECHANISM. JOSEPH WHITE, Middlesex, N. J.; Minnie E. White, administratrix of said Joseph White, deceased, assignor to The Riegel Sack Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 2, 1921. Serial No. 482,061. 18 Claims. (Cl. 164—49.)



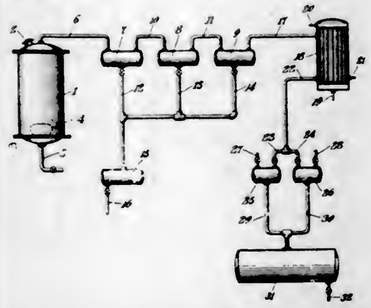
1. In a mechanism for locating a web according to the position of spaced indicators on the web, a web-moving means adapted to move the web in each cycle a distance approximately that of the normal spacing of the indicators and then bring it to rest, and auxiliary web-moving means to move the web additionally in each cycle either forward or backward until an indicator is in a predetermined position.

1,474,749. TRACTOR FRAME SUSPENSION. ELMER E. WICKERSHAM, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Oct. 7, 1919. Serial No. 328,961. 5 Claims. (Cl. 305—9.)



3. In a vehicle, a chain track truck mechanism comprising a frame formed of upper and lower spring metal members, rollers on the upper member to support the chain track, and rollers on the lower member to support the load upon the track, an idler wheel journaled on the forward ends of the lower members, and a support carried by the bearings for the idler wheel on which the upper frame member is freely movable.

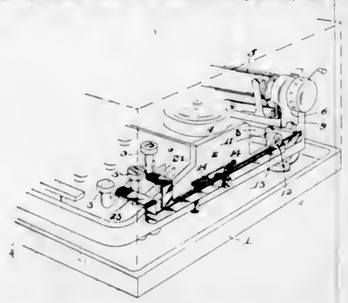
1,474,750. PROCESS OF RECOVERING GLYCERINE. HERMAN F. WILLKIE, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Sept. 20, 1919. Serial No. 325,131. 15 Claims. (Cl. 87—4.)



15. In a process of recovering glycerine from materials subjected to alcoholic fermentation, the steps comprising evaporating water therefrom to produce a porous mass, comminuting the latter, and then distilling off the glycerine present with superheated steam at 200° C. while the mass is maintained under a vacuum and at about 175° to 200° C.

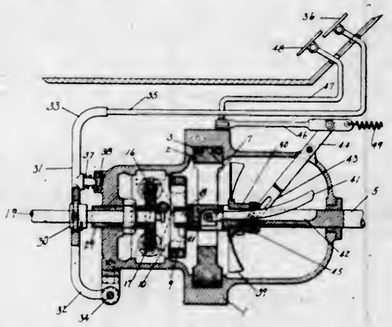
1,474,751. SHIFT BAR FOR TYPEWRITING MACHINES. JAMES FRANKLIN WILSON, Kensington, Md. Filed Sept. 2, 1922. Serial No. 585,936. 5 Claims. (Cl. 197—78.)

1. An attachment for a typewriting machine having a shiftable platen and a stop shift bar, comprising a separable mounting plate to be secured to the frame of the machine; a stud shaft attached to the plate, and a shift lever fulcrumed thereon adapted to be applied to the exterior side frame of a typewriting machine, and means operated by said lever to shift the platen, of a finger



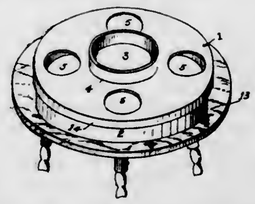
depending from said lever and contacting the stop shift bar of said machine to elevate the platen when the lever is depressed.

1,474,752. SPEED-CHANGE MECHANISM. ROBERT E. WINTERS, Coraopolis, Pa., assignor of one-half to Anthony C. Dean, Pittsburgh, Pa. Filed Apr. 15, 1921. Serial No. 461,560. 14 Claims. (Cl. 74—89.)



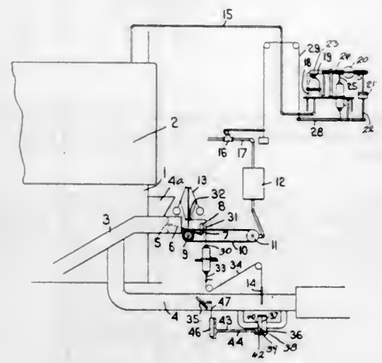
1. In speed change mechanism a reciprocable slide having racks thereon, a power shaft, means on said power shaft engaging with said racks, means for causing said racks to act alternately during movement of the slide in opposite directions to revolve said power shaft in a uniform direction, and means for reversing the action of said racks to reverse the direction of rotation of said power shaft.

1,474,753. FLOWER-DISPLAY HOLDER. ROSE ZREBIEC, Beaver Falls, Pa. Filed Aug. 31, 1922. Serial No. 585,554. 5 Claims. (Cl. 47—39.)



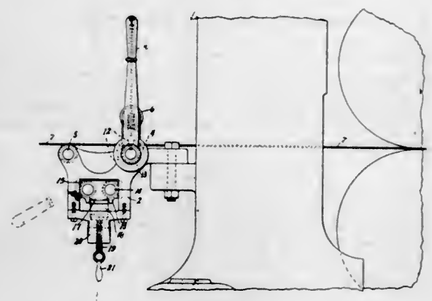
1. A display device comprising an open top receptacle provided with a drain, a detachable flat holder member seated on said receptacle and formed with a depending flange positioned against the outer periphery of the receptacle, said member formed with a centrally arranged opening surrounded by a circular row of openings, and a sleeve extending upwardly from said member and registering with said central opening.

1,474,754. COMBUSTION-CONTROLLING SYSTEM. DANIEL ADAMS, Newton, Mass. Filed Aug. 14, 1919. Serial No. 317,453. 26 Claims. (Cl. 236—14.)



19. The method of regulating the flow of gas under pressure through a passageway which consists in controlling a constriction in the passageway for the gas and in controlling the differential in pressure at the point of constriction.

1,474,755. BRIDLING APPARATUS. JOSEPH G. BAIN, Pittsburgh, and LASZLO M. STEMPEL, Dormont, Pa., assignors to Lewis Foundry & Machine Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 12, 1922. Serial No. 551,767. 16 Claims. (Cl. 80—51.)

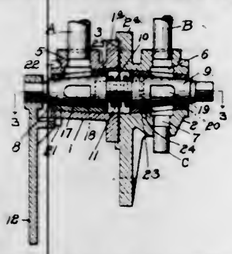


1. In bridling apparatus for use in conjunction with rolling mills the combination of a plurality of stationary bridle bars, and a movable member pivotally mounted on one of said bars and arranged to be swung across the plane of the axes of said stationary bars.

1,474,756. CONTROL VALVE. HOWARD L. BEACH, Mount Lebanon, Pa., assignor to Clark Car Company, a Corporation of Pennsylvania. Filed May 7, 1920. Serial No. 379,470. 13 Claims. (Cl. 277—3.)

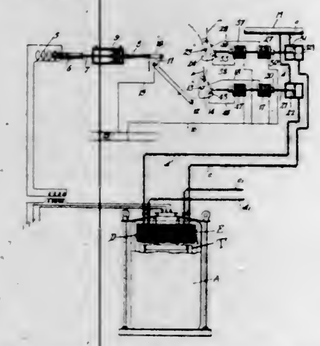
1. In combination in a valve, a valve casing having a key-receiving chamber formed therein, and provided with an entrance port at one end and a delivery port and an

exhaust port at the other end, and a passage for establishing communication between ports at opposite ends of



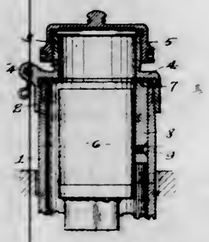
said casing, and a ported valve key located in said chamber for controlling delivery through said ports and said passage.

1,474,757. WATER-COOLED TRANSFORMER. ROBERT V. BINGAY, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company, a Corporation of Pennsylvania. Filed Nov. 27, 1920. Serial No. 426,681. 5 Claims. (Cl. 175—361.)



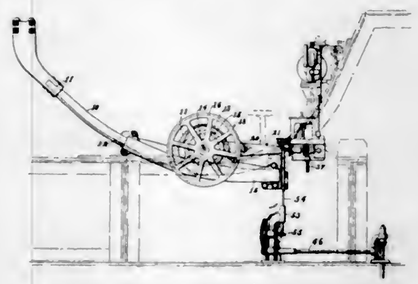
5. The combination with a transformer and a tank therefor, of a plurality of separate conduits for cooling the transformer having independent paths for the cooling medium, a valve for each of said conduits respectively for opening and closing the same, and automatic means for successively opening said valves upon increase in load on the transformer and for successively closing said valves upon decrease in load.

1,474,758. PLUG RECEPTACLE. CARL H. BISSELL, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed June 21, 1918. Serial No. 241,221. 3 Claims. (Cl. 173—338.)



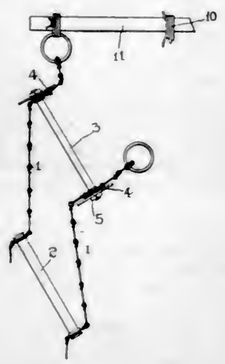
2. A plug receptacle including a pipe, a socket located in the pipe, a socket support having a portion extending into the pipe and secured to the socket, and a portion overlying the end of the pipe, and a coupling mounted on the end of the pipe and coacting with a portion of the support overlying the edge of the pipe to hold the support in position, substantially as and for the purpose specified.

1,474,759. DIRECTOR ELEVATING MECHANISM. WILLIAM H. P. BLANDY, Indian Head, Md., and RICHMOND K. TURNER, Washington, D. C., assignors to the Government of the United States. Filed Nov. 26, 1921. Serial No. 518,017. 6 Claims. (Cl. 89—41.)



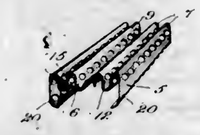
1. In an elevating attachment for ordnance, in combination with a roller gun support for training in azimuth, means for correcting errors in the angle of elevation due to inclination of the roller path and means cooperating therewith for correcting errors in elevation due to erosion.

1,474,760. LADDER. FREDERIC J. BRYANT, New York, N. Y. Original application filed July 5, 1918, Serial No. 243,328. Patent No. 1,406,972, dated Feb. 21, 1922. Divided and this application filed June 9, 1921. Serial No. 476,213. 3 Claims. (Cl. 228—40.)



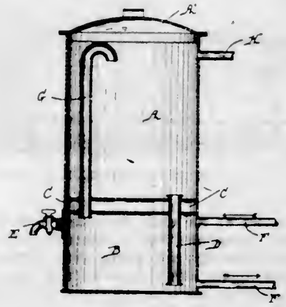
1. A ladder including a pair of rung-supporting chains and rungs carried by links thereof, characterized in that a metallic rung near the top of the ladder has its ends engageably entered within opposite links of the chains, and is provided with bearing members respectively outside each chain, the diameter of said bearing members greatly exceeding the diameter of the rung, and the inner surface of a bearing member co-acting with its adjacent chain to prevent chain stripping shock and strain forces from being exerted directly at a rung end in the event of support breakage or disengagement under a load.

1,474,761. SECONDARY CELL AND SEPARATOR PLATE FOR USE THEREIN. THOMAS A. CAMPBELL, New York, N. Y., JOHN W. DAMON, Plymouth, Mass., and AUSTIN B. STEWART, Newark, N. J., assignors to Thomas A. Campbell, trustee, New York, N. Y. Filed Nov. 30, 1920. Serial No. 427,362. 12 Claims. (Cl. 204—29.)



3. A secondary cell, comprising a plate and a separator comprising a corrugated sheet, said separator extending across and covering the face of said plate, said sheet having in its corrugated portion a multiplicity of perforations, the area of said perforations being not substantially less than the area of the face of said plate opposite said separator, said plate being corrugated, the bends being curved, and the parts between bends being substantially parallel.

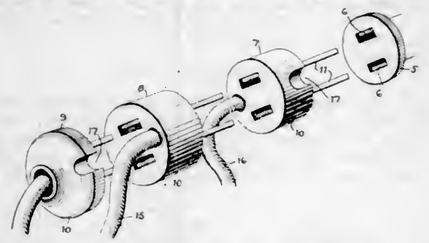
1,474,762. WATER HEATER. EDWARD CARR, Auckland, New Zealand, assignor of nine-sixteenths to Harry Delamere Dansey, Auckland, New Zealand. Filed July 23, 1923. Serial No. 653,346. 1 Claim. (Cl. 126—370.)



A water heater formed by a vessel divided off to provide a supply chamber in the top, a heating chamber in the bottom, and an air chamber situated between them, such heating chamber being connected to a water heating circulatory system, a pipe connection extending from the bottom of the supply chamber to near the bottom of the heating chamber, and a draw off tap opening from the top of the heating chamber, substantially as specified.

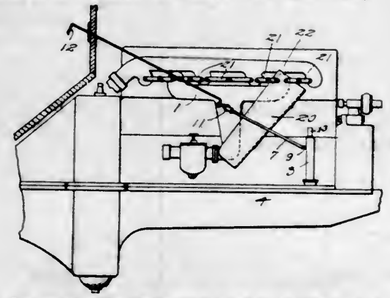
1,474,763. ELECTRICAL APPARATUS. DAVID CONLAN, Jr., Brooklyn, N. Y., assignor to Harvey Hubbell, Inc., a Corporation of Connecticut. Original application filed Dec. 24, 1920. Serial No. 432,983. Divided and this application filed June 13, 1921. Serial No. 477,003. 4 Claims. (Cl. 173—334.)

1. In electrical apparatus of the character described, an attachment plug for extending a through circuit and providing a branch circuit comprising a cylindrical insulating base, a pair of terminal blades projecting from one end of said base and provided with binding posts at the bases of the same for the connection of a branch circuit, said insulating base having insulating sockets in the opposite end thereof and a cord outlet within the cylindrical outline of the base, extending from the binding posts at one end of the base out through the opposite end of the base closely adjacent to the insulating sockets



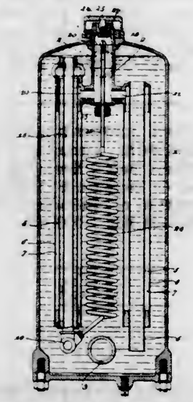
at said opposite end of the base and terminal posts housed in the insulating sockets and electrically connected with the projecting terminal blades.

1,474,764. GAS VACUUM VAPORIZER. ELLSWORTH A. CRAWFORD, Harrisburg, Ark. Filed Jan. 11, 1923. Serial No. 612,063. 4 Claims. (Cl. 123—119.)



1. In combination with the intake manifold of an internal combustion engine and a breather pipe, of a pipe connected to the said intake manifold and the breather pipe, a valve in the said pipe, and means at the upper end of the said breather pipe for deflecting a quantity of air from the cooling fan into the said breather pipe.

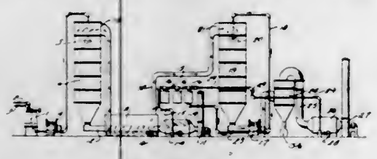
1,474,765. STEAM-HEATED HOT-WATER RADIATOR. SIEGFRIED DEUTSCH, Vienna, Austria. Filed Aug. 9, 1921. Serial No. 490,847. 10 Claims. (Cl. 237—72.)



1. In a heating device of the type described, the combination of a heating unit adapted to be filled with water, a steam tube system open at the bottom and arranged

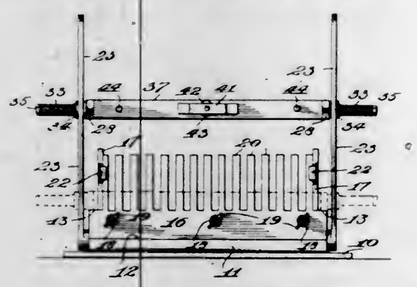
within said heating unit, an overflow pipe leading upward from the bottom of said unit, a pipe for the removal of the water of condensation, and a by-pass conduit forming a connection between the top portion of the steam tube system and the pipe for the removal of the water of condensation.

1,474,766. PROCESS FOR THE MANUFACTURE OF LITHOPONE. ELMER ELLSWORTH DOUGHERTY, Glen Ridge, N. J., assignor to Lucis Trust, a Corporation of New Jersey, Ridgefield Park, N. J. Filed Nov. 29, 1922. Serial No. 604,013. 10 Claims. (Cl. 134—78.)



9. The process for producing lithopone which includes the mixing solutions of $ZnSO_4$ and BaS, reducing the slurry to a finely divided state, dehydrating and treating the particles in suspension and in motion to gradually increasing temperature, quenching with cold water, and spray drying.

1,474,767. BREAD SLICER. GEORGE F. DU BUQUE, Los Angeles, Calif. Filed Mar. 19, 1923. Serial No. 626,057. 10 Claims. (Cl. 146—139.)



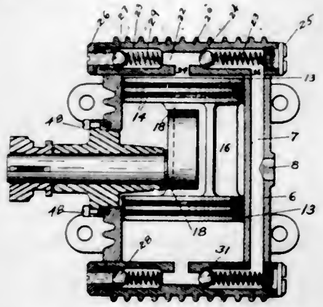
1. In a slicing mechanism, a base, a loaf holding crate on said base, arms connected to the ends of said base for swinging movement, a blade-carrying frame arranged for sliding and rotary movement on said arms and said base being provided with apertures that are adapted to receive and hold parts of said frame while the same is not in use.

1,474,768. COATING REFRIGERATOR AND CANDY SUPPORT THEREFOR. PHILIP E. DUDLEY, Wilmington, Del., and HARRY BOICE, Newburgh, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed July 12, 1921. Serial No. 484,099. 10 Claims. (Cl. 198—193.)



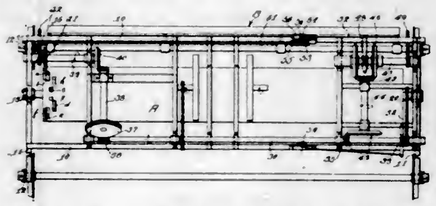
1. In a candy coating refrigerator having a refrigerating space and means for causing the travel of a candy support in said space; a candy support having a pyroxylin surface.

1,474,769. COMPRESSION PUMP. ELMER D. DUNNING, Philadelphia, Pa. Filed Apr. 29, 1919. Serial No. 293,387. Renewed Sept. 27, 1923. 3 Claims. (Cl. 230—27.)



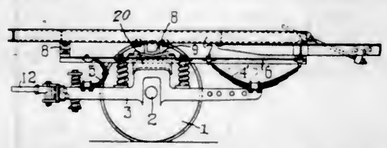
1. In a double pump, a single straight bore tube forming opposed cylinders, a one piece web connected, double faced piston, a single piece combined eccentric and drive shaft, a suitable bearing support for the shaft, and one piece detachable cylinder heads with inlet and outlet valves located therein.

1,474,770. MACHINE FOR WORKING CONCRETE OR THE LIKE. WILLIAM J. FITZGERALD and ADDI BENJAMIN CADMAN, Beloit, Wis. Filed Aug. 18, 1919. Serial No. 318,181. 24 Claims. (Cl. 94—43.)



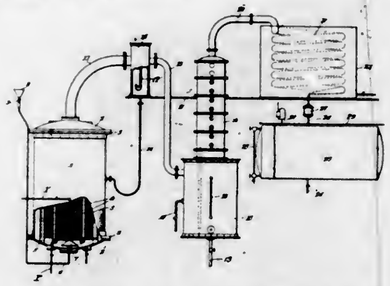
1. In a device of the class described, a spreading element having, in combination, a rotatable support and a plurality of outwardly projecting teeth carried by said support, each tooth offset axially from the preceding tooth by a distance less than the transverse dimension of the tooth.

1,474,771. TRUCK FOR TRAMCARS AND THE LIKE. WILLIAM FORBER, St. Helens, England. Filed July 20, 1923. Serial No. 652,822. 1 Claim. (Cl. 105—165.)



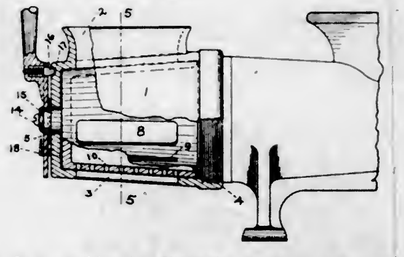
A tramway vehicle truck comprising a car under-frame, an intermediate frame beneath said underframe, a sub-frame beneath said intermediate frame and provided with guides, a wheel axle mounted in said guides, means to prevent relative horizontal displacement of the sub-frame on said intermediate frame, spring supports between said intermediate frame and sub-frame, reversely arranged inclined planes on the upper surface of said intermediate frame over said wheel axle, a cooperative shoe on the underside of said under-frame, over said wheel axle and supported on said inclined planes for allowing automatic return of the intermediate frame after partial rotation from the horizontal plane relatively to said under frame.

1,474,772. APPARATUS FOR THE MANUFACTURE OF ETHER. JOHN PRESTON FOSTER, Paia, Territory of Hawaii. Filed Nov. 29, 1920. Serial No. 427,202. 7 Claims. (Cl. 260—173.)



1. In an apparatus for the manufacture of ether, the combination with a still having a conduit leading therefrom for the transmission of gases, of a save-all interposed in said conduit to arrest the flow of the gases for the deposition of the entrained liquid particles, and a drain pipe leading from the save-all back to the still to return to the latter the liquid collected in the save-all.

1,474,773. FOOD DISPENSER. ROBERT O. FRASER, Seattle, Wash. Filed Apr. 3, 1922. Serial No. 549,235. 6 Claims. (Cl. 107—14.)



4. In a machine for dispensing foods in plastic condition, a spout having a hollow rotatable member journaled therein provided with a plurality of openings adapted to communicate with the discharge opening of the spout and dispense said foods in the form of thick portions, shreds, or thin layers.

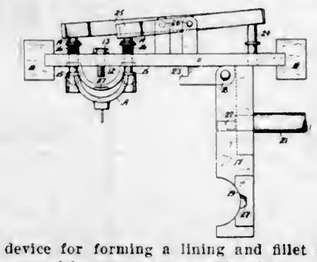
6. In a machine for dispensing foods in plastic condition, provided with a spout having a rotatable member adapted to dispense said foods in ribbon-like layers or shreds, the combination of a disc, fixedly connected with said member, carrying indicia, means for rotating the disc, and an indicator cooperating therewith, whereby said member may be readily turned to a predetermined position and said food so distributed from the spout.

1,474,774. BELT JOINT AND METHOD OF MAKING SAME. RUFUS W. FULLER, Deerfield, Mass., assignor to Production Machine Company, Greenfield, Mass., a Corporation of Massachusetts. Filed Nov. 14, 1922. Serial No. 600,979. 7 Claims. (Cl. 24—38.)



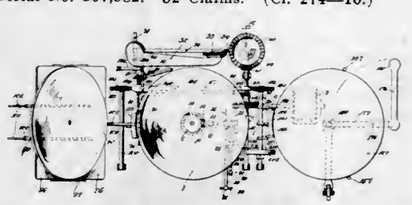
3. A belt joint for abrasive belts comprising interlocking fingers upon contiguous ends thereof, overlapped upon and adhesively secured to the back of the abrasive belt, the fingers being provided with a series of projections impressed into the interstices of the back of the belt to secure a mechanical grip between the fingers and body portion of the belt.

1,474,775. DIE FOR LINING BEARINGS. FREDERICK GERHARDT, San Francisco, Calif. Filed Oct. 14, 1920. Serial No. 416,866. 6 Claims. (Cl. 22—123.)



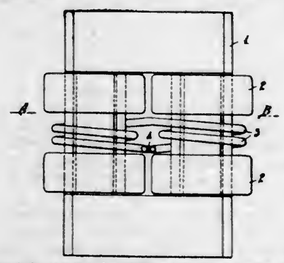
1. A device for forming a lining and fillet in a split bearing, comprising means engageable with the bolt openings in the flanges of the bearing-half to support the same, an inner die member spaced from the ends and inner circumference of the bearing-half, an outer die member to engage the bearing-half, and clamp the same in place, said outer die member co-operating with the inner die member to enclose a space at each end of the bearing-half for the fillet.

1,474,776. SOUND-REPRODUCTION APPARATUS. FLOYD D. HUNT, Burlington, Vt. Filed Oct. 15, 1921. Serial No. 507,982. 32 Claims. (Cl. 274—10.)



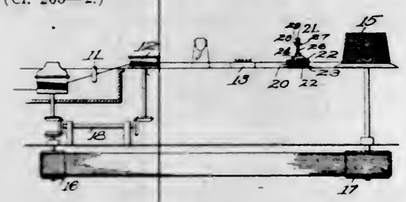
22. In sound reproduction apparatus, a turn table, record supports at the sides of the turn table in spaced relation thereto, and oscillatory means arranged between the turn table and the record supports to grip opposite faces of a record at the margin thereof whereby to transfer a record from a support to the turn table and from the turn table to a support.

1,474,777. ELECTRIC WATER HEATER. LADISLAUS JARKOVSKY, Vienna, Austria. Filed Oct. 25, 1921. Serial No. 510,385. 2 Claims. (Cl. 219—47.)



1. An electric water heater with pipe coils for the liquid to be heated, said pipe coils forming the secondary winding of a transformer for alternating on three-phase currents and primary windings of the transformer, the said pipe coils arranged as secondary windings of the transformer between the said primary windings.

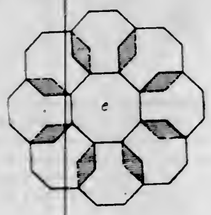
1,474,778. METHOD OF AND MEANS FOR REDUCING, STRAIGHTENING, AND WINDING WIRE. CHARLES O. JOHNSON, CHARLES D. JOHNSON, and BERNARD A. JOHNSON, Worcester, Mass., assignors to Worcester Wire Works, Inc., a Corporation of Massachusetts. Filed Apr. 10, 1920. Serial No. 372,992. 5 Claims. (Cl. 205—2.)



1. In an apparatus for straightening and winding fine wire, the combination with a wire straightener and a block on which the wire is wound therefrom, of a grooved wheel located in position to receive the wire from the straightener and deliver it to the block, a stationary shaft on which the wheel is freely rotatable, a pair of leather discs on said shaft, one bearing on either side of said wheel, and means for constantly holding said discs yieldingly against the wheel.

2. The method of reducing, straightening and winding fine wire in one continuous operation, which consists in passing the wire from a die to a pin straightener, and then to a winding block and applying a resistance to the wire between the straightener and block to keep the wire uniformly taut as it passes to the block.

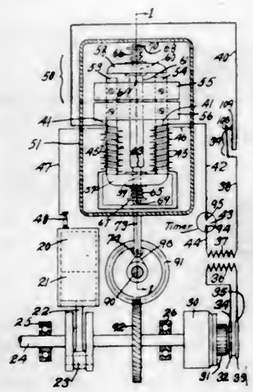
1,474,779. TILE FOR WALLS, FLOORS, CEILINGS, AND THE LIKE. AUGUST ZUR KAMMER, Hagen, Germany. Filed July 8, 1922. Serial No. 573,555. 2 Claims. (Cl. 72—35.)



1. A tile surface comprising tiles all of which are of identical shape, each tile consisting of a regular polygon of more than six angles from which equilateral polygons are omitted so as to form reentrant angles which are equal to the outer angles omitted, whereby such tiles when laid on a base will be supplemental to the adjacent tiles and form a continuous surface, substantially as set forth.

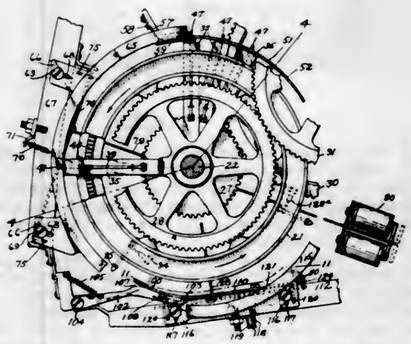
1,474,780. IGNITION SYSTEM. LESTER S. KEILHOLTZ, Dayton, Ohio, assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed Aug. 10, 1918. Serial No. 249,219. 8 Claims. (Cl. 123—148.)

1. In combination with an internal-combustion engine, an ignition system comprising an inductive circuit; means providing a magnetic path linked with the circuit; electrical and mechanical means for intermittently creating and destroying a magnetic field in the region of said inductive circuit whereby to induce a sparking impulse therein, said electrical means comprising an electrical circuit and said mechanical means comprising a movable member for continually varying the reluctance of said magnetic path; and means responsive to an operating condition of the engine for



rendering either of the first-mentioned means inoperative, said last-mentioned means including provisions for arresting the movement of said movable member.

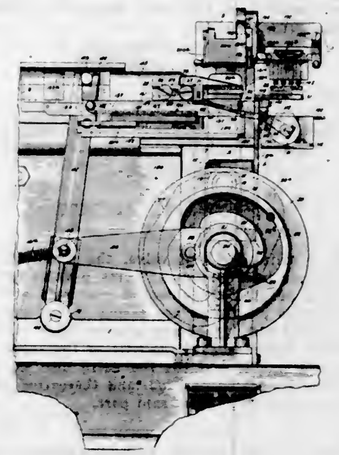
1,474,781. TIMING MECHANISM FOR FOLDING MACHINES OR THE LIKE. LEO M. KOHN, Philadelphia, Pa. Filed Mar. 20, 1920. Serial No. 367,477. 46 Claims. (Cl. 270—81.)



2. The combination with a folding machine provided with a plurality of devices for successively making different folds in an article, of a timing mechanism including a movable actuating member which controls successively the operation of said folding devices to make a plurality of folds in an article.

1,474,782. TAG-MARKING MACHINE. FREDERICK KOHNLE, Dayton, Ohio, assignor to The Monarch Marking System Company, Dayton, Ohio, a Corporation of Ohio. Filed July 28, 1921. Serial No. 488,176. 13 Claims. (Cl. 101—292.)

1. In a machine of the class described, a support having co-planar work tables, adapted for guiding strip material having apertures therein defining tag lengths, a reciprocatory carriage having extensions overlying said tables, pawls upon said extensions adapted to engage, advance said strips, and release the same on reverse carriage stroke, a reciprocatory member having



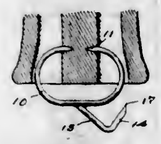
means thereon for operating upon said material, and means for reciprocating said carriage and member in timed relation.

1,474,783. NOSE RING. HENRY C. KONKLIN, Knox, Ind. Filed Mar. 17, 1922. Serial No. 544,456. 3 Claims. (Cl. 119—135.)



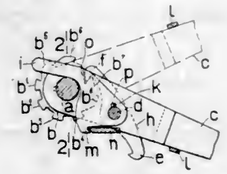
1. A device of the character described comprising a ring base adapted to be engaged upon the snout of an animal and having an eye portion therein, and a pricker device swivelled in the eye and constructed to engage parts of the base whereby to limit the swivelled movement of the pricker, and having also inturned points located above and below the swivel connection, for the purposes described.

1,474,784. HOG RING. HENRY C. KONKLIN, Knox, Ind. Filed Sept. 5, 1922. Serial No. 586,227. 2 Claims. (Cl. 119—135.)



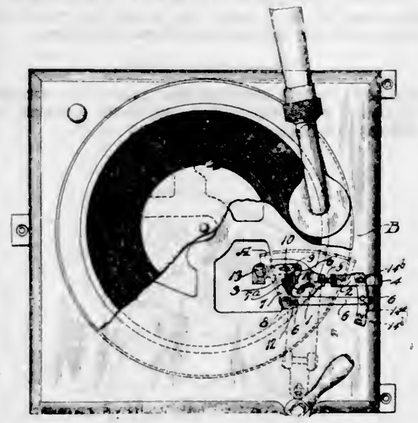
2. A hog ring comprising a split ring, a fixed element on the outer part of the ring having inturned points, the ring being of a size and the points so adjusted in relation to the plane of the ring that when engaged in the septum of the nose of a hog, the points will stop short of the snout when the ring rests upon the lower sides of the nostrils.

1,474,785. GEAR FOR MOVING THE BOTTOMS OF DUMPING RECEPTACLES. PAUL KRÜGER, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed May 18, 1922. Serial No. 561,987. 3 Claims. (Cl. 74—54.)



1. In a gear for moving the bottom of dumping receptacles, comprising a driving shaft and a hand lever mounted for rotation on said shaft and adapted to be coupled with the same in both directions of rotation, a reversing member swingingly mounted on the hand lever, a coupling member mounted on the hand lever for rotation and co-operation with the said reversing member, the reversing member being adapted to couple the hand lever with the driving shaft through the intermediary of the said coupling member in a limit position in the sense of the opening movement and in a second limit position in the sense of the closing movement, and being further adapted to lock the hand lever and the driving shaft against a rotation in the sense of the opening movement in a third limit position.

1,474,786. RECORD-BEGINNING GUIDE FOR SOUND-REPRODUCING MACHINES. THOMAS H. LOY, Bellaire, Ohio. Filed Jan. 10, 1921. Serial No. 436,145. 15 Claims. (Cl. 274—9.)

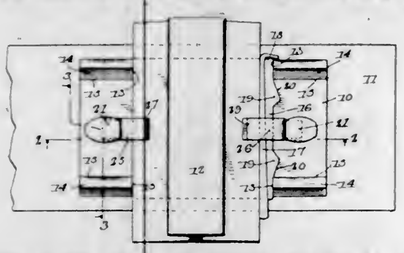


1. In a sound reproducing machine, including a record support, the combination with reproducer mechanism, of stop means for controlling the initial coaction of the reproducer with the record, said means being constructed and arranged to stop movement of the reproducer at record beginning position preliminary to playing, said reproducer mechanism thereafter coacting with the stop means, to maintain the same in inoperative relation.

1,474,787. RAIL FASTENER. EMERY M. MCVICKER, Milwaukee, Wis., assignor to J. F. McVicker, Milwaukee, Wis. Filed Oct. 15, 1921. Serial No. 507,912. 11 Claims. (Cl. 238—304.)

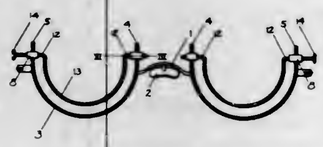
1. A rail fastener including a tie plate having an opening and an upwardly inclined face associated there-

with, a substantially U-shaped rail clip, positioned therein and embracing an edge of a rail, said clip being ar-



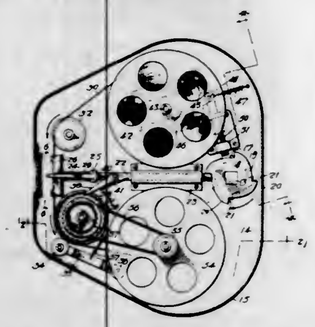
ranged to bear against said inclined face, and an element positioned in said opening behind said clip for retaining said clip in rail securing position.

1,474,788. TRIAL FRAME. HAROLD K. PARSONS, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed July 29, 1919. Serial No. 314,054. 9 Claims. (Cl. 88—20.)



1. A trial frame including a pair of uprights for each eye, a lens cell, and means on the uprights supporting the lens cell for vertical and lateral adjustment.

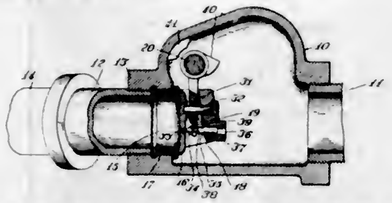
1,474,789. ENTRY RECORDER. JOHN W. RHODEN, Hosford, Fla. Filed June 30, 1922. Serial No. 572,008. 5 Claims. (Cl. 234—13.)



1. An entry recorder comprising a rotating obstruction, a cam rotated by the rotating obstruction, a plunger reciprocated by the rotating cam, a ribbon, spools carrying the ribbon, means actuated by the plunger for winding the ribbon from one spool to the other with a uniform step by step progression, and means carried by the plunger for perforating the ribbon at each reciprocation of the plunger.

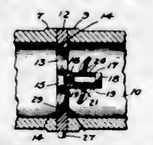
3. An entry recorder comprising a rotating obstruction, a ribbon, spools carrying the ribbon, means actuated by the rotation of the obstruction for winding the ribbon from one spool to the other, and means to lock the movement of the obstruction when the ribbon has been exhausted from the storage spool.

1,474,790. TRAIN-PIPE END VALVE. EDWARD A. RUSSELL, Chicago, Ill., assignor to Vapor Car Heating Company, Inc., Chicago, Ill., a Corporation of New York. Filed Aug. 13, 1921. Serial No. 492,075. 4 Claims. (Cl. 277—43.)



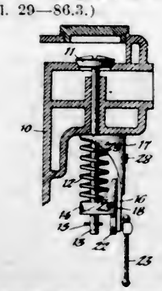
1. In a train pipe end valve, the combination of a casing having inlet and outlet ports, a valve disc within the casing adapted to be seated over said outlet port, and a spindle pivoted in the casing at one side of said port provided with a rock arm adapted, when said spindle is rotated, to first engage the edge of the valve disc adjacent said spindle and tilt the valve disc on this side away from its seated position, and thereafter swing the disc as a whole away from said port.

1,474,791. FUEL MIXER FOR INTERNAL-COMBUSTION ENGINES. ABBY ROGERS, Seattle, Wash., assignor to Martin Nash and W. G. Hutchins, both of Seattle, Wash. Filed July 10, 1922. Serial No. 573,943. 2 Claims. (Cl. 48—180.)



2. A fuel mixer for internal combustion engines comprising an apertured base member, an arm extending into the aperture formed in said base, said arm being offset from the plane of said base and terminating in a central bearing, a spindle positioned in said bearing projecting in a direction with the offset therefrom, a rotary element provided with radial blades adapted to rotate on said spindle, said blades having substantially circular spaces therebetween forming wide palms with concave edges, said aperture in said base member being tapered in such manner that its walls converge substantially in alignment with the outer peripheries of said blades, means entering said base member for conveying vapor to said rotary element, and means for retaining said rotary element on said spindle.

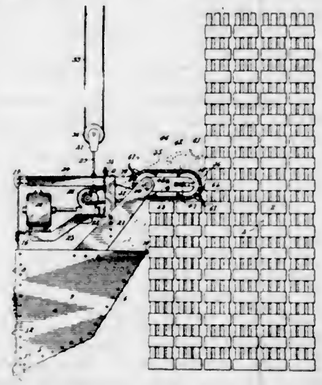
1,474,792. VALVE REMOVER. HENRY RUTTINGER, Buffalo, N. Y. Filed Aug. 23, 1922. Serial No. 584,012. 6 Claims. (Cl. 29—86.3.)



1. A valve remover of the character described, comprising a support, jaw sections mounted at opposite ends of said support and having alining bifurcations arranged to

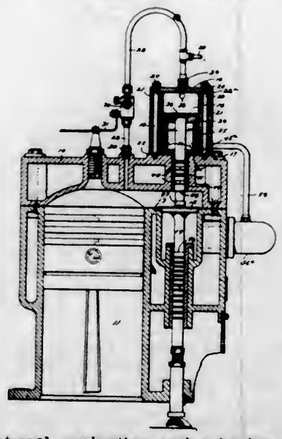
engage the valve stem, one of said jaw sections being movable toward and from the other, and means mounted on said support for actuating the movable jaw section, said actuating means being located at that end of the support containing said movable jaw section and approximately within the dimensional area thereof.

1,474,793. APPARATUS FOR REMOVING BURNT BRICK FROM A KILN, STACK, PILE, OR THE LIKE. ALEXANDER A. SCOTT, Knoxville, Tenn., assignor to Baltimore Trust Company, trustee. Filed Apr. 28, 1921. Serial No. 465,209. 5 Claims. (Cl. 214—1.)



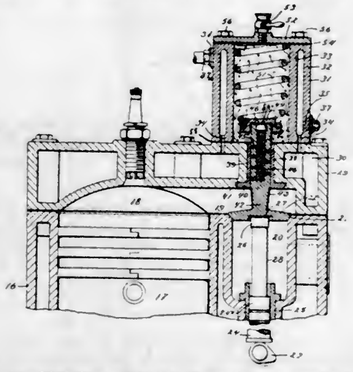
1. Apparatus of the kind described, comprising a brick carrying receptacle, means cooperating with said receptacle to extend therefrom, and engage the rows of brick remote from said receptacle, said engaging means constituting brick removing means to transfer brick from a stack to the receptacle, and including an endless conveyor, having brick moving devices thereon, said endless conveyor being arranged for variable vertical positions with regard to the brick.

1,474,794. INTERNAL-COMBUSTION ENGINE. FRANK D. SHEPHERD, Aurora, Ill. Filed Jan. 8, 1920. Serial No. 350,116. 11 Claims. (Cl. 123—90.)



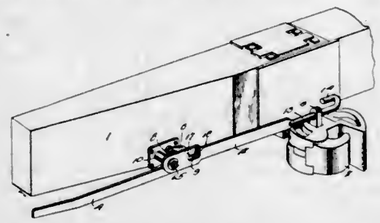
1. An internal combustion engine having a head, a plurality of valves and pressure means to seat the valves, comprising for each valve a container, consisting of a cylindrical bore from end to end and opening through both ends, the inner end being in gas-tight contact with the head, and a gas-tight closure at the outer end, said containers being integrally joined, and having strengthening ribs connecting adjoining containers.

1,474,795. INTERNAL-COMBUSTION ENGINE. FRANK D. SHEPHERD, Detroit, Mich. Filed Jan. 19, 1920. Serial No. 352,359. 1 Claim. (Cl. 123—188.)



The combination with an internal combustion engine having a plurality of ports, of valves controlling the ports and having stems projecting through a wall of the engine, a body block mounted on the engine and having a plurality of cylindrical chambers therein, side by side and of the same diameter, said chambers opening through both sides of the body and having their inner ends closed by gas-tight joints, the valve stems extending into the chambers, closures for the outer ends of the chambers, and valve actuating means in the various chambers operating on the stems.

1,474,796. OPERATING DEVICE FOR CAR COUPLERS. VINTON E. SISSON, Chicago, Ill., assignor to Walter P. Murphy, Chicago, Ill. Filed Jan. 27, 1920. Serial No. 354,450. 4 Claims. (Cl. 213—164.)

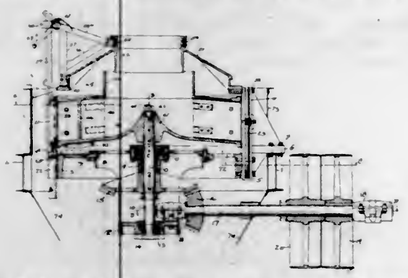


1. In a release rigging for car couplers, the combination with a pin lifting lever pivotally mounted at its outer end to a car, and a hand operating lever pivotally mounted intermediate its ends to a car at a point intermediate the coupler and the pivot of the pin lever, whereby the pivot of the pin lever acts as a stop to limit the upward movement of the hand lever, and an operative connection between said levers.

1,474,797. BEET-SLICING MACHINE. DELPHIN H. SPICER, Cleveland, Ohio, assignor to The Dyer Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 6, 1922. Serial No. 534,321. 2 Claims. (Cl. 146—93.)

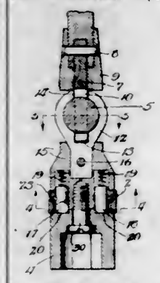
1. In a beet slicing machine, the combination of an outer casing forming a delivery hopper, a bed plate within said casing, a rotatable driving spindle extending through and above said bed plate, a series of guides

secured to said plate and extending vertically, knife boxes slidably mounted in said guides, blind boxes also slidably mounted in said guides below said knife boxes, knives removably secured to said knife boxes, means for adjusting said knife boxes radially to adjustably position



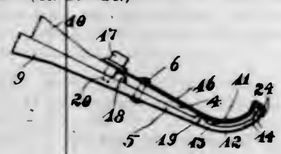
said knives to vary the thickness of the slice, a runner mounted on said spindle and rotatable therewith, said runner having open ended pockets and being adapted to force the beets outwardly against said knives by centrifugal action during rotation to slice the beets.

1,474,798. WRENCH OR TOOL. LUDWIG STARK, Chicago, Ill., assignor to "Flexo" Wrench and Tool Company, Chicago, Ill., a Corporation. Filed Dec. 5, 1921. Serial No. 519,948. 3 Claims. (Cl. 81—60.)



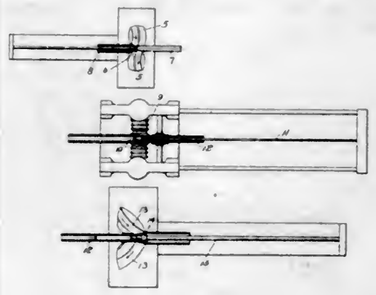
1. In a ratchet wrench, a socket engaging member to be rotated intermittently by the ratchet, a ratchet member bored longitudinally to provide a plurality of sockets, cylindrical dogs in said sockets, ratchet teeth on said engaging member to engage said dogs, springs in said sockets to press said dogs into engagement with said ratchet teeth, lateral projections on said dogs, a ring having cams on its inner surface to engage said lateral projections, thereby to control said dogs to reverse the rotation of said engaging member, a screw inserted through the engaging member and into the ratchet member to form a swivel connection between one member and the other member, and a handle connected to said ratchet member.

1,474,799. FRUIT SNIP. MELINDA A. STARKEY, Los Angeles, Calif. Filed Jan. 17, 1922. Serial No. 529,929. 3 Claims. (Cl. 30—24.)



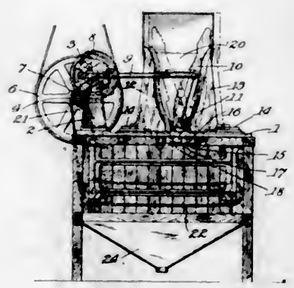
1. In a fruit snip, jaw members having their terminations curved upwardly, and a protecting shield applied to the normal top side of the jaws having a bifurcated front end forming the cutting opening and extending over the front ends of the jaws terminating short on the underside of the curved front ends and spaced from the lowermost actual point of cutting of the jaws and adapted to allow the jaw members to close for cutting purposes.

1,474,800. METHOD OF MAKING SEAMLESS TUBES. RALPH C. STIEFEL, Ellwood City, Pa. Filed June 16, 1920. Serial No. 389,348. 2 Claims. (Cl. 80—62.)



2. The method of making seamless tubes which consists in piercing a solid billet to form a relatively thick walled blank, then rolling said blank in a plug-mill and thereby elongating and thinning its walls and producing a blank of less diameter and greater wall thickness than the desired tube, and then cross-rolling and expanding said blank over a mandrel plug in a manner to reduce its wall thickness and increase its diameter to the desired wall thickness and diameter, and simultaneously smoothing the tube internally and externally, rounding it, and truing and equalizing its walls.

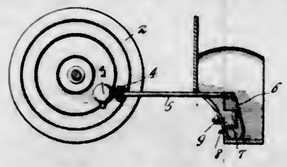
1,474,801. CRUSHER. CLAUDE EVERETT STREET, Bradentown, Fla., assignor to Florida Grapefruit Canning Company, Inc., Bradentown, Fla., a Corporation of Florida. Filed Aug. 26, 1922. Serial No. 584,498. 6 Claims. (Cl. 100—40.)



1. A device of the character described, including a pivoted jaw member, a reciprocating jaw member, and means to cause the two jaw members to approach each other.

6. A device of the character described, including a pair of reciprocable jaws, a pivoted element therebetween adapted to approach first one and then the other reciprocable jaw, and means to cause a reciprocable jaw to bodily approach the pivoted element when the latter swings toward the former.

1,474,802. VALVE CONTROLLING OR LOCKING MEANS. JACOB P. THOMAS, San Jose, Calif. Filed June 28, 1922. Serial No. 571,384. 3 Claims. (Cl. 137—139.)



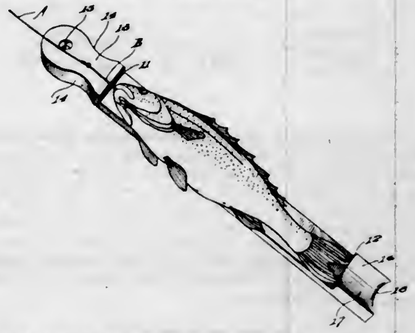
1. In combination with a petcock having an operating key, of an operating rod pivotally connected to the key, an operating blade pivotally connected to the outer end of the rod, and a knife clamp adapted to receive the blade and hold the rod in a set position against rotation.

1,474,803. TEST LENS. EDGAR D. TILLYER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed July 8, 1919. Serial No. 309,476. 7 Claims. (Cl. 88—56.)



1. A neutralizing or test lens for meniscus and toric lenses whose front and rear surfaces are related to give the required power, and whose contacting surface is of stronger curvature than the strongest concave eye side curvature of lenses adjacent the power of the lens to be tested.

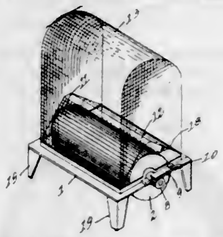
1,474,804. FISH MEASURE. RICHARD G. TYRRELL, Cranberry Creek, N. Y. Filed Oct. 1, 1919. Serial No. 327,725. 4 Claims. (Cl. 33—168.)



1. As a new article of manufacture, a fish measure comprising a body having a pair of shoulders formed thereon and spaced at predetermined distances from each other, a gripping head on one end of the fish measure, a face of the end of the body opposite the end upon which the gripping head is formed being concavely curved.

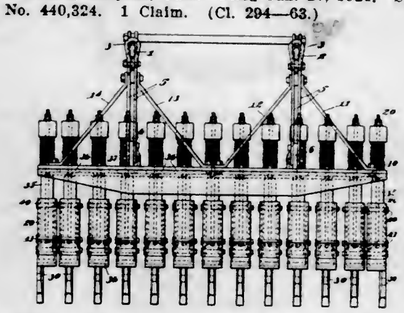
1,474,805. TRAP. ISAAC WAGNER, Walla Walla, Wash. Filed Apr. 17, 1922. Serial No. 553,948. 1 Claim. (Cl. 43—11.)

In a fly trap, a base, a cylinder rotatably mounted in said base, a rotating means mounted within said cylinder, a brake, a funnel shaped screen provided with an opening at its apex, positioned adjacent to said cylinder, a spring catch attached to said funnel shaped screen and engageable with said frame, a stop, a screened container slidably mounted and frictionally retained on said funnel shaped screen, and hooks attached to said container and



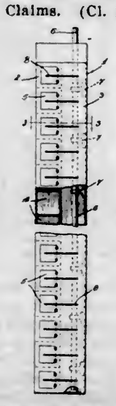
engageable with said frame, said hooks and said spring catch acting conjointly to attach the screen members to the said frame.

1,474,806. BRICK-HANDLING FORK. WILLIAM W. WALLACE, Bucyrus, Ohio. Filed Jan. 27, 1921. Serial No. 440,324. 1 Claim. (Cl. 294—63.)



Brick handling apparatus of the kind described, comprising an overhead support, a plurality of horizontally extending brick engaging fingers and means connecting said fingers and said support consisting in a vertical bearing rigidly attached to said frame, a carriage adapted for vertical sliding movement on the bearing member and carrying the horizontal fingers, anti-friction members between said carriage and said bearing and positive stop means cooperating with said anti-friction members to limit the vertical movement of said carriage.

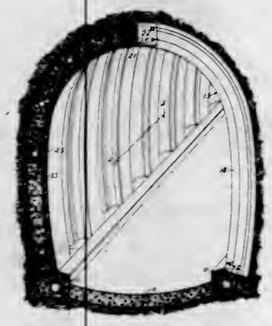
1,474,807. OIL TESTER. OSCAR B. YETMAN and JOHN LEISURE, Coffeyville, Kans. Filed Nov. 23, 1922. Serial No. 602,810. 4 Claims. (Cl. 137—18.)



1. A device of the class described comprising a casing having a plurality of superposed compartments of uniform sizes and equipped with hingedly mounted oil-tight

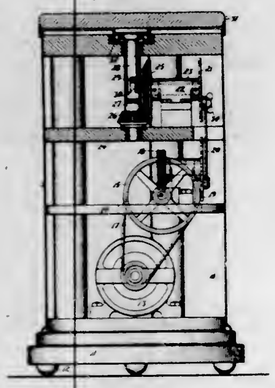
closures, springs for closing and holding said closures in closed position, and means for opening the closures against the tension of the springs.

1,474,808. METHOD OF TUNNEL CONSTRUCTION. PIERRE ZUCCO, San Francisco, Calif. Filed Feb. 24, 1920. Serial No. 360,592. 6 Claims. (Cl. 61—45.)



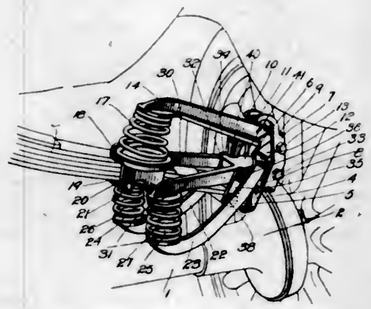
1. A method of tunnel construction in which footing blocks are positioned upon the floor of a tunnel upon each side thereof and in spaced relation to each other, after which pre-cast ferro-concrete rib sections are erected between each pair of oppositely disposed blocks to form a supporting element from one of said blocks to the other, a plurality of said elements being spaced along the length of the tunnel, then concrete is molded into the spaces between said elements to form a continuous wall therewith.

1,474,809. PHOTOGRAPHER'S STUDIO APPLIANCE. JAMES W. ANDERSON, San Francisco, Calif., assignor to Anderson Manufacturing Company, San Francisco, Calif., a Corporation of California. Filed Jan. 14, 1920. Serial No. 351,310. 1 Claim. (Cl. 155—95.)



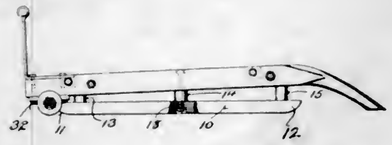
An apparatus for obtaining multiple views of a subject being photographed, each view being taken from a different angle, comprising a cylindrical cabinet, a seat rotatably mounted thereon on a vertical axis, a spindle on the seat forming the axis of rotation of said seat, a sleeve journaled within the cabinet to removably receive the spindle and forming a driving connection therewith, a motor within the cabinet and connections between the motor and sleeve for driving the latter, said connections being arranged within the cabinet.

1,474,810. SHOCK ABSORBER. CHESTER I. BAILEY, Greenwood, Mo., assignor to Louie H. Oberreich, Indianapolis, Ind. Filed Aug. 26, 1921. Serial No. 495,580. 13 Claims. (Cl. 267—17.)



1. In combination, an axle and a body spring, a spring perch bracket carried by the axle, a spring perch pivoted to the bracket and having a laterally projecting arm and two downwardly curved arms, a compensating lever between the arms and fastened to the bracket, a shackle connecting the end of the body spring to the compensating lever, a spring seat on the body spring, a coil spring interposed between the spring seat and the first named arm of the spring perch, and springs between the ends of the downwardly curved arms of the spring perch and the compensating lever.

1,474,811. TRUCK. ARTHUR L. BEM, Manitowoc, Wis. Filed Mar. 7, 1922. Serial No. 541,734. 1 Claim. (Cl. 280—56.)



The combination of side frame members, wheels therefor, adjacent the ends thereof, means for securing said wheels thereto, a pair of elongated supports, a plurality of spacer blocks on said supports, and bolts extending through said supports, said spacer blocks and said side members securing said supports, said side frame members and said spacer blocks together, said supports approaching said side frame members in the direction of said wheels and said side frame members being inclined when said supports are horizontal.

1,474,812. HÆMOCYTOMETER AND METHOD OF MAKING THE SAME. EUGENE D. BROOKER, New York, N. Y. Filed Jan. 2, 1923. Serial No. 610,219. 5 Claims. (Cl. 88—40.)



1. The method of making hæmocytometers, which consists of providing a base, placing thereon blocks or strips to form tables for the purpose set forth, and in fusing said base and said table members together in an integral construction.

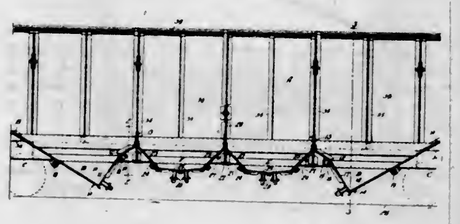
1,474,813. MEANS FOR USE IN THE MOLDING OF CONCRETE BUILDING BLOCKS. JOHN THOMAS BROWNE and WILLIAM BLACK, Hamilton, New Zealand. Filed June 30, 1921, Serial No. 481,535. Renewed Oct. 12, 1923. 4 Claims. (Cl. 25—191.)



1. A mould for use in the formation of concrete blocks formed by a mould casing constructed with sides and ends removably secured together, and a centrally extending core for dividing the casing space lengthwise into two, formed by two end blocks removably attached down the insides of the respective casing ends and each made with a deep groove extending down its inner face, distance bar pieces fitting within the grooves of the respective end blocks, and two vertically extending core plates extending upon opposite sides of such distance pieces and interlocking at their ends with the inner edges of the corresponding end blocks, substantially as specified.

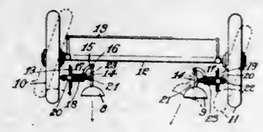
3. In means for use in molding concrete blocks, a mould formed by a casing and a core extending through such casing and dividing its space lengthwise into two, and means for raising and lowering such casing consisting in a framework adapted to be fitted over the casing and comprising an overhead cross beam, extending longitudinally with the casing, a horizontally disposed lifting frame having means for its attachment to each corner of the casing, and a vertically disposed screw rod threaded through the said cross beam and having its lower end connected to the lifting frame, substantially as and for the purposes specified.

1,474,814. HOPPER CAR. ARGYLE CAMPBELL, Chicago Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 31, 1922. Serial No. 585,432. 7 Claims. (Cl. 105—248.)



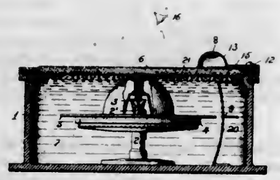
1. A hopper car having sloping end floors and eight discharge hoppers arranged in two longitudinal series of four each on each side of the center sill, each of said series including two end hoppers and two intermediate hoppers, each said end hopper being defined by side hopper sheets, a sloping end floor and a transverse ridge sheet, and each of said intermediate hoppers, being defined by side hopper sheets and two oppositely extending transverse ridge sheets, said transverse ridge sheets of the intermediate hoppers sloping downwardly at a more acute angle and to a lower point than said transverse ridge sheets of the end hoppers; and a transversely extending hopper door hinged to the lower edge of each said transverse ridge sheets, the end hopper doors being of greater length than the intermediate hopper doors.

1,474,815. MOUNTING OF ILLUMINATORS OR HEADLIGHTS FOR AUTOMOBILES. EDWARD T. CURRAN, Detroit, Mich. Filed Aug. 16, 1920. Serial No. 403,742. 3 Claims. (Cl. 240—62.)



1. In an automobile, a pair of pivotally supported illuminators to have rotative adjustment on vertical axes, one independently of the other, a plunger connected to each illuminator to extend parallel with the axis of the steering wheels when the automobile is travelling in a straight course and with the ends adjacent to and in the plane of rotation of the tire of the steering wheels, and means to yieldingly maintain the illuminators in position to project the light rays in a direction longitudinally of the automobile with the plunger of the illuminator adjacent the tire of the steering wheel which is deflected inward toward the longitudinal axis of the automobile as the steering wheels are deflected in changing the direction of travel of the automobile being adapted to engage the adjacent illuminator plunger to move the connected illuminator to position to project the light rays in the direction of movement of the deflected steering wheels for the purpose specified.

1,474,816. LUMINOUS INDICATOR. EDWIN W. DAY, Brooklyn, N. Y. Filed Aug. 23, 1917. Serial No. 187,913. 9 Claims. (Cl. 240—1.)

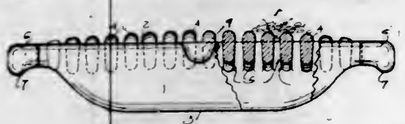


1. In a compass, the combination with a casing, of a compass rose pivotally supported therein, a reference index therefor, a self luminous lamp supported on said casing at a distance from said rose and said index and adapted to illuminate the index and adjacent portions of the rose, said lamp comprising a glass tube having a bore and a luminous compound sealed in said bore.

1,474,817. METHOD OF MAKING WALL COVERINGS IN IMITATION OF NATURAL STONE. JOHN A. FINCKE, New York, N. Y. Filed Dec. 3, 1920. Serial No. 427,946. 1 Claim. (Cl. 18—48.8.)

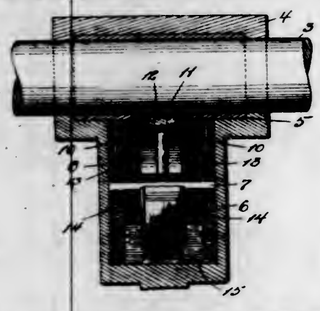
The method of making slabs or wall coverings in imitation of natural stone which consists of mixing together body material and coloring matter in dry state and applying the mixture in a dry state to portions of a supporting surface to represent natural stone markings, applying uncolored, dry body material to other portions of the supporting surface, placing on said dry materials a fabric binder, and placing on said binder a layer of wet body material whereby the moisture from the wet body material will permeate the dry materials and cause the whole to form an integral mass or slab allowing the mass to set and removing it from said support.

1,474,818. GRATE BAR. ARTHUR F. FRATTINGER, Seattle, Wash. Filed Sept. 27, 1920. Serial No. 413,077. 3 Claims. (Cl. 126—167.)



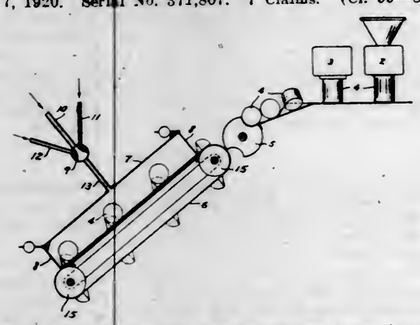
1. In a grate bar, the combination of a pair of parallel longitudinal bars with rounded top and bottom edges, transverse bars intermediate the longitudinal bars and arranged in parallel relationship with each other, and with rounded edges at both top and bottom whereby flaring outlets for the air are provided at the tops of the bars and similar air inlets at the bottoms of the bars.

1,474,819. MEANS OF LUBRICATION. OSCAR W. GERLEMAN, St. Louis, Mo. Filed Jan. 27, 1922. Serial No. 532,265. 2 Claims. (Cl. 64—34.)



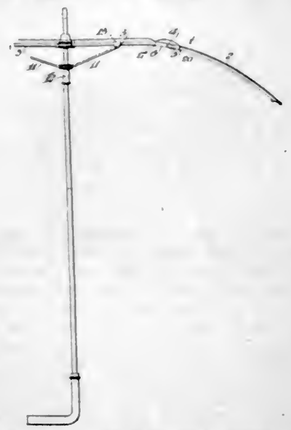
1. In combination with a bearing, a shaft operatively secured in said bearing, an oil well in operative relationship with said bearing, a wheel rotatively mounted in said oil well, a perforated tubular graphite containing member mounted on the periphery of said wheel in operative rotative contact with the bearing surface of said shaft.

1,474,820. PROCESS OF PRESERVING FOOD. OSWALD H. HANSEN, Port Washington, Wis., assignor, by direct and mesne assignments, to Hansen Canning Machinery Corporation, a Corporation of Wisconsin. Filed Apr. 7, 1920. Serial No. 371,807. 7 Claims. (Cl. 99—8.)



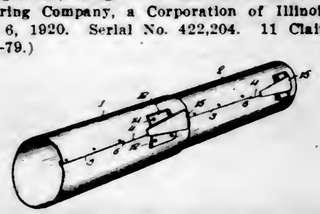
1. The process of preserving food, which comprises, placing batches of the food into receptacles, completely cooking the food by subjecting the containers to a temperature below the food burning temperature for a relatively long period of time, and subsequently sterilizing the food by simultaneously violently agitating and subjecting the containers to a temperature above the food burning temperature for a relatively short period of time.

1,474,821. FOLDING UMBRELLA. MORRIS H. HARTZELL, Philadelphia, Pa., assignor to Samuel S. Fretz, sr., Philadelphia, Pa. Filed Jan. 29, 1923. Serial No. 615,505. 3 Claims. (Cl. 135—25.)



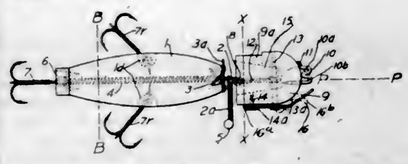
1. In a rib for a folding umbrella formed of sections sleeves on the sections, and ears on the sleeves, and a pivotal connection for said ears, the ears of one of said sleeves having thereon inturned lips which are adapted to engage resiliently with the ears of the other sleeve forming a friction joint for the sections in the open condition of the umbrella.

1,474,822. PIPE AND PIPE CLAMP. GEORGE F. HAUF, Chicago, Ill., assignor to Robertson Brothers Manufacturing Company, a Corporation of Illinois. Filed Nov. 6, 1920. Serial No. 422,204. 11 Claims. (Cl. 285—79.)



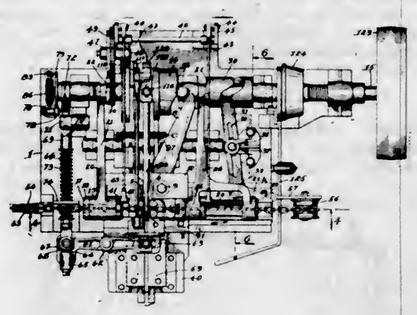
1. A pipe having a section with overlapping longitudinal edges, and a double wedge clamp operable longitudinally of the section to increase and decrease the amount of the overlap to contract and expand the section.

1,474,823. FISH LURE. GAIL H. HINES, Lake Odessa, Mich. Filed Sept. 27, 1922. Serial No. 590,825. 7 Claims. (Cl. 43—47.)



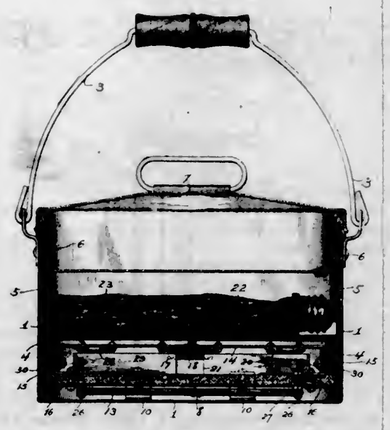
7. In a variegated fish lure the combination of a non-rotative element, a rotary body, and a head element, means for imparting wiggling movement to said fish lure, detachable means for giving diving and zig-zagging movement to said fish lure and means for converting said diving and zig-zagging means into means for varying the depth of the course of said fish lure, and hook means carried on said fish lure.

1,474,824. WELDING MACHINE. CARLTON L. HOFF and GIRARDUS G. NAUGLE, York, Pa., assignors to American Chain Company, Inc., a Corporation of New York. Filed Mar. 1, 1921. Serial No. 448,761. 47 Claims. (Cl. 219—5.)



1. In an electrical welding machine, a pair of slideways, electrodes mounted in said slideways, an equalizing link connecting said electrodes, and a power imparting member pivotally connected with said equalizing link at a point intermediate the connections therewith with said electrodes.

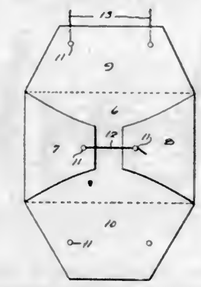
1,474,825. PORTABLE COOKING OUTFIT. GEORGE HOWARD, Michigan City, Ind. Filed Nov. 27, 1922. Serial No. 603,582. 5 Claims. (Cl. 219—37.)



1. An electric stove including a body having a rim, longitudinal braces on the under side of the rim, keepers secured on said braces, and legs having their upper ends detachably engaged in said keepers.

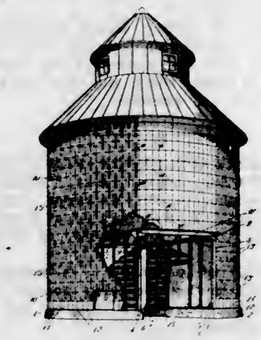
1,474,826. WRAPPER FOR CLOTHING, ETC. JOHN D. HUDEC, Cleveland, Ohio. Filed Oct. 23, 1922. Serial No. 596,291. 1 Claim. (Cl. 229—87.)

A wrapper comprising a one-piece paper blank of substantially rectangular configuration, a flap at each edge, each flap being decreased in width towards its free edge whereby to facilitate folding, a cord carried by one end flap, a button carried by the opposite end flap for co-action with the cord, a pair of longitudinally spaced cords carried by one of the side flaps and a pair



of spaced buttons carried by the opposite flap and adapted to co-act with said spaced cords to secure the flaps together.

1,474,827. GRANARY. HARRY BERNARD JONES, Chicago, Ill. Filed July 22, 1922. Serial No. 576,706. 8 Claims. (Cl. 72—6.)



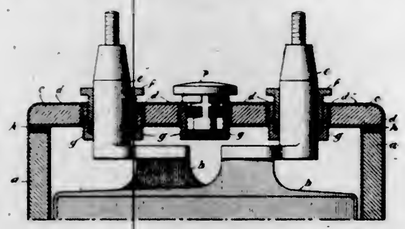
1. In combination, a fabricated steel framework, substantially circular wall portions formed of slabs at opposite sides of the framework, and rods extending about said wall portions at each side and tightened between the ends of the framework for holding the slabs in tightened contact.

1,474,828. METHOD OF MAKING FINGER RINGS. JAKE KARLAN, New York, N. Y. Filed Mar. 10, 1923. Serial No. 624,216. 16 Claims. (Cl. 29—8.)



16. A finger ring blank having an elongated, relatively narrow, intermediate portion adapted to form the band and end portions extending laterally therefrom in opposite directions at the opposite ends of the elongated portions adapted to form the crown, said end portions having edges curved to cooperate with the intermediate portion in completing the circular band of the ring.

1,474,829. COVER FOR CONTAINING CELLS OF ELECTRIC BATTERIES. LAMAR LYNDON, New York, N. Y. Filed Dec. 2, 1919, Serial No. 341,843. Renewed Oct. 6, 1923. 10 Claims. (Cl. 204—29.)



1. A cover for containing cells of electric batteries comprising a wooden core coated with an impervious, acid-resisting film and provided with holes for terminals and filler openings, the walls of said holes being reenforced by a layer of an acid-resisting substance thicker than the film over the surfaces of said wooden core.

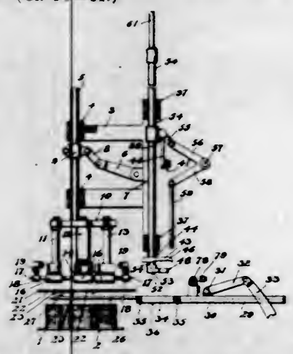
1,474,830. POROUS, ACID-RESISTING DIAPHRAGM. LAMAR LYNDON, New York, N. Y. Filed Mar. 15, 1921, Serial No. 452,584. Renewed Oct. 6, 1923. 15 Claims. (Cl. 204—29.)

1. The process of making porous pyroxylin plastics, comprising the treatment of pyroxylin with a collodion-forming solvent until the surface of the resulting substance begins to become slimy, and then submitting said substance to heat and pressure.

1,474,831. MANUFACTURE OF BLEACHING-POWDER SOLUTIONS. JAMES HENRY MACMAHON, Saltville, Va., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a Corporation of Virginia. Filed Dec. 29, 1921. Serial No. 525,689. 4 Claims. (Cl. 23—13.)

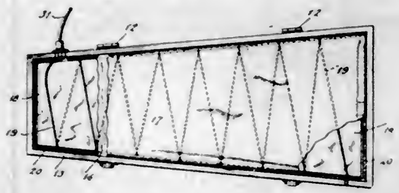
1. The method of producing a bleaching solution which comprises mixing bleaching powder containing excess lime with water and treating the resulting mixture with chlorine.

1,474,832. PATCH-APPLYING MECHANISM FOR WINDOW ENVELOPES. CARL O. EKVALL, New York, N. Y. Filed Dec. 3, 1921. Serial No. 519,723. 8 Claims. (Cl. 93—61.)



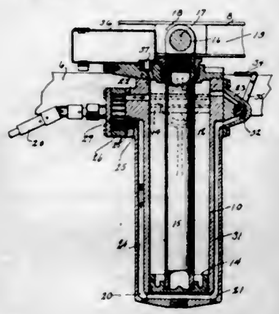
1. In a machine of the class described, a blank creasing plate, a folding bed, an apertured creasing plunger adapted to move a blank through said creasing plate down to the folding bed, a patch-applying member adapted to receive a patch below the creasing plunger when said plunger is in its raised position, means for moving said patch-applying member downward while the same is located in the aperture in the creasing plunger, means for causing a patch to be applied to a blank while the same is being moved by the creasing plunger and means for terminating the movement of the patch applying member at a distance from the folding bed, while said creasing plunger thereafter continues its movement of the patch blank to the folding bed.

1,474,833. PRESSING DEVICE. OSCAR HAUPTMAN, New York, N. Y. Filed Aug. 28, 1922. Serial No. 584,605. 9 Claims. (Cl. 219—37.)



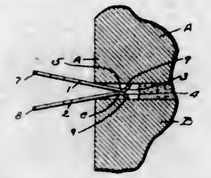
1. A portable pressing device comprising upper and lower sections, an electrical heating unit mounted within each of said sections, said units being connected in series, means to clamp said sections together under pressure and electrical contact means carried by said sections to be automatically engaged and thereby complete the circuit through said heating units when said sections are brought into clamping engagement.

1,474,834. FLUID HOIST. JULIUS P. HEIL, Milwaukee, Wis. Filed Nov. 1, 1920. Serial No. 421,175. 7 Claims. (Cl. 138—9.)



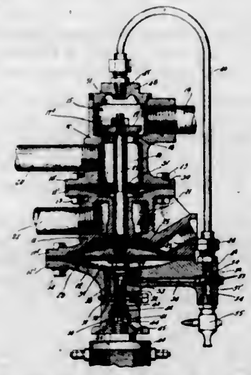
1. A fluid hoist, comprising a single cylinder having a pair of ports at opposite end portions, a piston within the cylinder and between the pairs of ports and having a stem extending through one end of the cylinder, ducts on the opposite sides of the cylinder for connecting the ports of the opposite ends together in pairs, means on one side of the cylinder intersecting one of the ducts for moving a fluid medium from one side of the piston to the other to move the piston in one direction to a predetermined position of rest, said position of rest closing one of the ports and automatically stopping the movement of the fluid medium to the moving means without stopping the operation of the moving means, and means on the other side of the cylinder intersecting the other duct for controlling the movement of the fluid medium through the other ports and the movement of the piston to its other position of rest.

1,474,835. SEAM ANCHOR. PHILIP HOGAN, St. Louis, Mo. Filed Mar. 18, 1922. Serial No. 544,858. 8 Claims. (Cl. 72—101.)



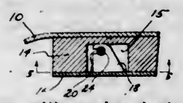
2. A seam anchor comprising juxtaposed bars each having a portion bent at an angle near one end, said bent portions diverging from each other, and means for drawing said bars together at a point spaced from said projections.

1,474,836. COMBINED RESERVOIR AND BRAKE VALVE. ALLEN B. KENDALL, Niagara Falls, N. Y., assignor to The Regan Safety Devices Company, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 10, 1922. Serial No. 600,018. 11 Claims. (Cl. 303—18.)



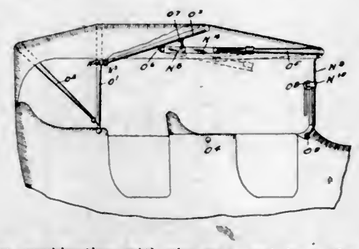
1. A train control mechanism for use with the air brake system of the train comprising a casing provided with two intercommunicating chambers, a control valve for controlling intercommunication therebetween, one chamber comprising a pressure chamber connectable to the reservoir of the air brake system, and the other being adapted for connection to the engineman's brake valve, pneumatic mechanism for operating the control valve including a pneumatically actuated means connected to the control valve, provisions for conducting a flow of reservoir air to said means to influence the same, and a primary valve for controlling said air flow, the said provisions comprising a duct connected to the top of said pressure chamber.

1,474,837. REMOVABLE HEELPLATE. ADOLF KITOWSKI, Norwich, Conn. Filed Sept. 11, 1922. Serial No. 587,283. 1 Claim. (Cl. 36—42.)



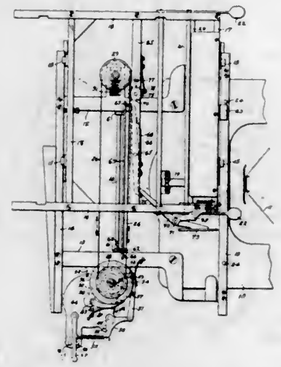
The combination with a shoe heel having a recess opening outwardly, a rod rotatable transversely in said heel, said rod passing through the opening therein, cam elements formed on said rod, a plate shaped in conformity with the heel, a pair of spaced lugs fixed on said plate adapted to extend into the opening in the heel, and means in said lugs to engage the cam elements of said rod.

1,474,838. METHOD AND MEANS FOR CONVERTING AN AUTOMOBILE TOP INTO A ONE-MAN TOP. RALPH F. KLECKER, Los Angeles, Calif. Filed July 27, 1921. Serial No. 487,826. 2 Claims. (Cl. 296—116.)



1. In combination with the rear seat bow, the front seat bow and the front or horizontal bow of a top, of a clip adapted to be attached to the rear seat bow and having a pivot connection at the front edge of said rear seat bow to receive the end of the front seat bow, a bar pivotally connected at one end to the edge of said front seat bow in its raised position and having a hook at its opposite end adapted to hook over the top of the front or horizontal bow, the end of said horizontal bow being pivotally connected to said bar intermediate its ends, whereby when the hooked end of said bar is sprung off of said horizontal bar, the end of said horizontal bar can swing downwardly, and a stud on said bar projecting upwardly in position to engage the front seat bow forwardly of the pivotal connection to the end of said bar, whereby to brace said parts, substantially as described.

1,474,839. TYPEWRITING MACHINE. CLIFFORD W. MARSH, Bridgeport, Conn. Filed Nov. 8, 1921. Serial No. 513,666. 14 Claims. (Cl. 197—68.)

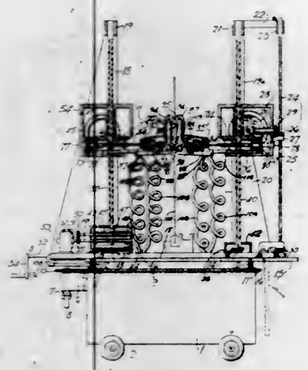


1. The combination in a typewriter having a tension mechanism and a reciprocating element, of means to connect said element and tension mechanism for movement of said element in one direction, and means to disconnect the same to allow the free movement of said element in the opposite direction.

1,474,840. WINDOW WASHING AND DRYING MECHANISM. JULIUS MARTIN, Chicago, Ill. Filed Nov. 3, 1921. Serial No. 512,456. 5 Claims. (Cl. 15—103.)

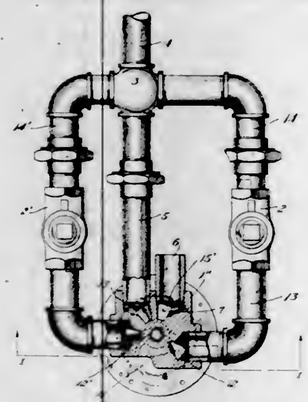
1. In window washing and drying mechanism, a reservoir, a sliding bed plate, a support for said bed plate, reciprocating mechanism operatively supported upon said bed plate in engagement with a window pane, means for conveying water from said reservoir to said reciprocating mechanism and applying the same simultaneously to

both sides of the window pane in one direction of movement of said mechanism and for drying both sides of the window pane during movement in the opposite direc-



tion, said mechanism comprising travelling gear casings associated with housings individually adjustable toward and away from the window pane.

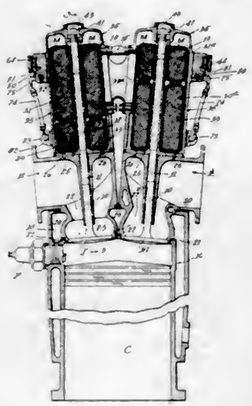
1,474,841. PRESSURE REGULATOR. MILFORD C. MAYO, Canton, Ohio, assignor to The Canton Pneumatic Tool Company, Canton, Ohio, a Corporation of Ohio. Filed Jun 1, 1922. Serial No. 565,249. 2 Claims. (Cl. 277—50.)



1. A pressure regulator including a regulating valve, a service pipe and a return pipe communicating with each other and with the regulating valve, and a controlling valve connected with the regulating valve and with the return pipe for alternately supplying compressed air to the regulating valve and exhausting air from the return pipe when not supplying air to the regulating valve.

1,474,842. INTERNAL-COMBUSTION ENGINE. LOUIS J. MISURACA, Los Angeles, Calif. Filed Nov. 14, 1921. Serial No. 514,921. 27 Claims. (Cl. 123—90.)

1. A valve mechanism, embodying a valve cage, a valve co-operating therewith, a stem for the valve projecting up through the cage, and an electromagnet device set directly on the cage and operating directly on the valve



stem, said electromagnet device embodying two solenoids one above the other and a single magnetic core in the valve stem to be acted on by one or both of said solenoids.

1,474,843. PROCESS OF MAKING ARTIFICIAL MILK. CHARLES E. NORTH, Montclair, N. J., assignor to The Milk Oil Corporation, a Corporation of Delaware. Filed July 14, 1922. Serial No. 575,055. 3 Claims. (Cl. 99—11.)

3. The process herein described of producing milk artificially, which consists in emulsifying butter fat or milk oil, water and skim milk powder to produce cream, chilling the same to a temperature of about 40° F., agitating the chilled product until it is brought to a condition in which no plug of hard fat forms thereon, on standing, separately mixing water and skim milk powder, chilling the same to a like temperature and thoroughly mixing the same with the agitated cream in proportions to form milk having the butter fat content desired.

1,474,844. METHOD OF MAKING PAPER BOXES. LYNDON C. PALMER, Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Ontario, Canada, a Corporation of Ontario, Canada. Filed June 3, 1919. Serial No. 301,516. 9 Claims. (Cl. 93—39.)

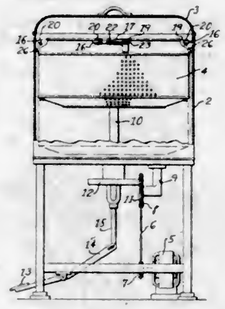


1. A method of the character described including coiling a sized strip into a multiple-ply ring while the sizing is moist so as to cause the plies to adhere, allowing the size to dry, softening a multiple-ply sized edge of the ring, and crimping said edge.

1,474,845. CENTRIFUGAL. GEORGE R. PARR, West Orange, N. J. Filed June 9, 1921. Serial No. 476,343. 12 Claims. (Cl. 64—48.)

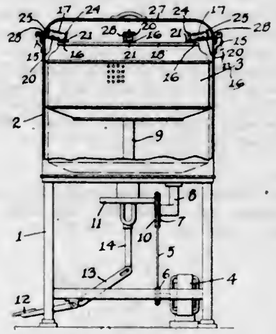
1. The combination with a rotating centrifugal drying drum, of means for reducing the vibration thereof, comprising a plurality of rollers carried by said drum and

mounted at intervals along its circumference and means for permitting an outward movement of the said rollers with relation to said drum when the drum is whirled, a



casing within which the said drum is disposed, said rollers being adapted to contact with said casing when the drum is whirled.

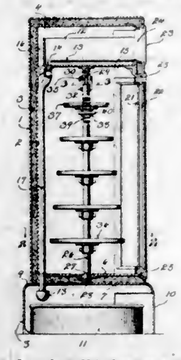
1,474,846. MEANS FOR REDUCING VIBRATION OF CENTRIFUGALS. GEORGE R. PARR, West Orange, N. J. Filed Aug. 23, 1921. Serial No. 494,588. 10 Claims. (Cl. 64—48.)



1. The combination of a rotating cylindrical drum, of means for reducing the vibration thereof, comprising a plurality of members spaced about the drum, each mounted independently of the other, means for securing each member to the machine and a roller carried by each member, said roller being arranged to project within the drum and to contact with a part of the inner surface of the drum, thus reducing vibration.

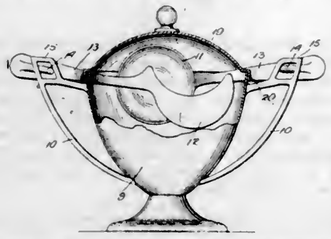
1,474,847. REFRIGERATOR. ARCHIE Y. PHILLIPS and CLARENCE THOMPSON, La Crosse, Wis. Filed Aug. 7, 1922. Serial No. 580,113. 1 Claim. (Cl. 45—108.)

A refrigerator comprising substantially a cylindrical body portion having a cylindrical food compartment, said compartment having a socket formed in its lower portion, a spindle mounted axially of said compartment and resting in said socket, a projection extending downwardly from the upper portion of said compartment and alining with said spindle, a slidable collar carried by said pro-



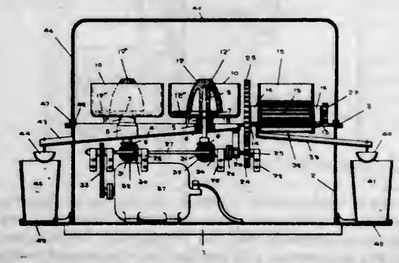
jection and adapted to be slid downwardly over the upper portion of said spindle to detachably retain said spindle, and a plurality of circular shelves carried by said spindle.

1,474,848. UTENSIL FOR DISPENSING HEAVY FLUIDS. HENRITA F. H. RIED, New York, N. Y., assignor to The Borden Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 22, 1921. Serial No. 502,330. 3 Claims. (Cl. 65—65.)



1. A device of the class described, comprising a container, handles formed with and extending outwardly from the opposite sides of said container, cooperative implements for use in dispensing the contents of said container, and cooperative means formed with each of said handles of the container and the handle portions of said implements whereby the implements are supported across the edge of said container with their dispensing ends disposed inwardly thereof and one spaced in parallel relation to the other.

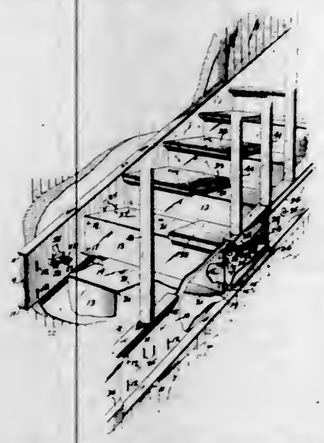
1,474,849. JUICE EXTRACTOR. MANUEL ROSENFIELD, Alameda, Calif. Filed Aug. 18, 1920. Serial No. 404,448. 4 Claims. (Cl. 146—3.)



1. A device of the character described comprising a bearing, an upstanding spindle extending through said bearing, a cup having slits in its bottom and having a

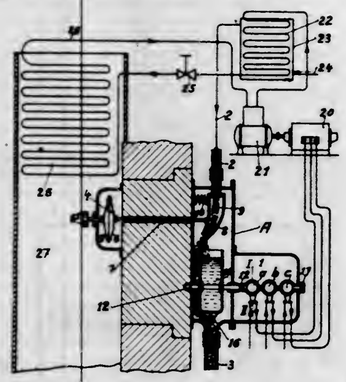
central portion loosely and removably disposed around the spindle and seated on said bearing, means for catching liquid dripping from the cup around said bearing, and an abrasion member removably fitted on the spindle within said cup.

1,474,850. STAIR CONSTRUCTION. VINCENT E. RUDLOFF, Maplewood, N. J. Filed Jan. 21, 1922. Serial No. 530,805. 7 Claims. (Cl. 189—43.)



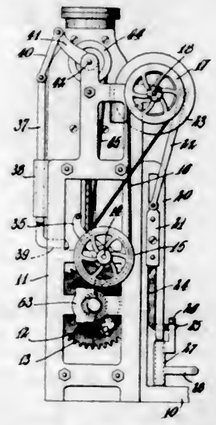
1. In a stair structure, the combination with stringers provided with pairs of vertically alined and spaced vertical slots of anchor plates, each anchor plate having coupling hooks engageable in a pair of said slots to dispose said anchor plates in vertical disposition for projection from the opposed faces of said stringers, risers extending between said stringers and having their respective ends secured to laterally opposed anchor plates, and tread plates secured between said risers.

1,474,851. REFRIGERATING MACHINE. EDUARD RÜDGGER, Zurich, Switzerland. Filed June 17, 1921. Serial No. 478,412. 2 Claims. (Cl. 62—4.)



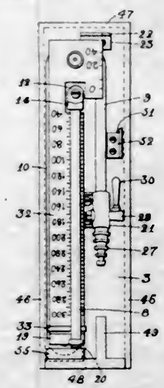
1. In a refrigerating machine having an evaporator, a liquefier for refrigerant communicating with the evaporator, a compressor for the refrigerant communicating with the evaporator and forcing the compressed refrigerant into the liquefier, means to supply cooling water to the liquefier, and an electric motor for driving the compressor; in combination with an electric switch for the motor, means arranged to be influenced by the cooling water discharged from the liquefier to directly operate said switch, and means operated by the cooling temperature produced by the evaporator to directly control the supply of water to said switch-operating means.

1,474,852. MECHANICAL TOY. ANTHONY S. RYBACK, Depew, N. Y. Filed Jan. 11, 1922. Serial No. 528,488. 4 Claims. (Cl. 46—40.)



1. In a mechanical toy, an upright frame having a vertical slot, a shaft, a spring motor for driving the same, an arm fixed to said shaft, a vertically movable slide-bar, a finger on the lower end of said slide-bar adapted to be engaged by said arm to depress said slide-bar, a drum, an arm rigid with said drum, a link connecting said arm with the upper end of said slide-bar, a cord attached at one end to said drum, a vertically slidable block to which said cord is attached at its other end, a vertical guide rod for said block passing freely through the latter and an offset from said block engaging in said vertical slot to hold the block against rotation.

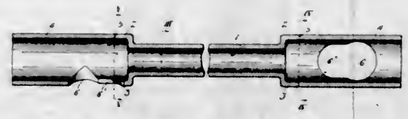
1,474,853. SPHYGMOMANOMETER. PHILIP A. SHEAFF, Philadelphia, Pa. Filed Nov. 16, 1922. Serial No. 601,382. 7 Claims. (Cl. 73—44.)



1. In a sphygmomanometer the combination of a support, a tube comprising first and second vertical members connected at their upper ends and a third vertical member having its lower end connected to the lower end of the said second member, a second tube, a valve device

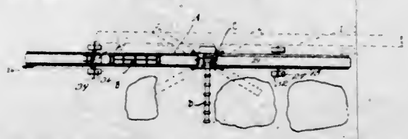
pivotally connecting one end of said second tube and the upper end of the third member of the first named tube and adapted to open and close communication between them when said second tube is raised and lowered, a scale movable with said second tube for reading the height of a column of liquid therein, and a valve for opening and closing the first member of the first named tube.

1,474,854. DRAG LINK. WILLIAM H. SPIRE, Cleveland, Ohio, assignor to The Steel Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 2, 1921. Serial No. 489,363. 3 Claims. (Cl. 74—17.)



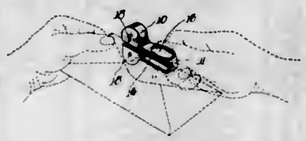
1. A drag link consisting of a piece of tubing expanded at the end to form an internal shoulder providing a seat and an expanded end in the form of a short cylindrical flange of greater diameter than said tubing; and a second piece of tubing, of the same outside diameter as said expanded end, butt-welded to said end to form an end socket.

1,474,855. CONVEYING APPARATUS. HUGO O. STAMP, Milwaukee, Wis., assignor to The Stamp Machine Company, Milwaukee, Wis. Filed Feb. 9, 1920, Serial No. 357,170. Renewed Oct. 17, 1923. 39 Claims. (Cl. 198—44.)



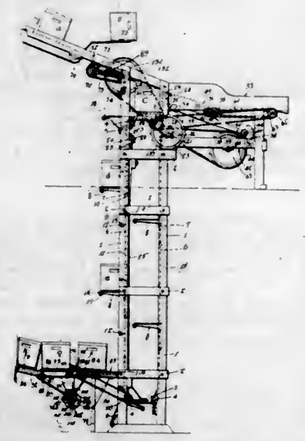
1. A machine of the class described, including an elongated wheeled frame, a longitudinally extending main means for conveying, carried by said frame, a power unit carried by the frame for propelling said frame and driving said main means for conveying a carriage movable there-along, a turntable on said carriage, a pick-up conveyor carried by said turntable and arranged to discharge to said main means for conveying, and an independent power unit mounted on the turntable for driving said pick-up conveyor and propelling said carriage along the main means for conveying.

1,474,856. ENVELOPE OPENER. JOSEPH STAREL, Chicago, Ill., assignor of one-half to Henry Heidelberger, Chicago, Ill., and one-half to Charles C. Madsen, Chicago, Ill. Filed Oct. 11, 1922. Serial No. 593,708. 7 Claims. (Cl. 120—35.)



6. An envelope cutter comprising a hollow head and a handle formed with a continuous guide slot extending lengthwise of the handle and across one side of said head, a pair of pivot pins mounted in and crosswise of said head, hub members rotatably mounted on said pivot pins, respectively, a pair of cutter discs fixedly mounted on said hub members, respectively, with their cutting edges overlapping within said slot, a pair of friction rollers fixedly mounted on said hub members laterally opposite to said cutter discs, said rollers being in rolling contact with each other at a point in said slot laterally opposite to the overlapping edges of said cutter discs, and a spring washer fast on one of said hub members and exerting an endwise thrust on the latter whereby its associated cutter disc is pressed into snug contact with the co-operating cutter disc throughout the overlapping portions of said cutter discs.

1,474,857. BOX-HANDLING APPARATUS. FRED STEBLER, Riverside, and GEORGE T. STAMM, Upland, Calif., assignors, by direct and mesne assignments, to Stebler Parker Co., Riverside, Calif., a Corporation of California. Filed Apr. 19, 1919. Serial No. 291,243. 27 Claims. (Cl. 214—1.)



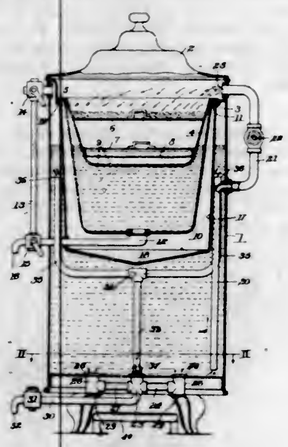
1. In a box handling apparatus, a frame, endless chains at the sides of the frame, means to drive said chains, bell crank levers pivoted to each of the chains, the pivots of the levers projecting laterally beyond the outer faces of said levers, bars connecting the bell crank levers on one chain with those on the other chain, two pairs of vertical guides at the front of the frame fastened thereto, one pair being positioned between the guides of the other pair, rollers on the projecting ends of the pivots engaging the rear faces of one pair of guides, and other rollers on the bars adjacent the inner faces of the levers engaging the front faces of the other pair of the guides.

5. In a box handling apparatus, a frame, endless chains at the sides of the frame, means to operate the endless chains, means on the chains to carry a box, arms movably mounted on the frame in position to receive a box from the box carrying means when said means are at the end of their upward movement, and means to move said arms upward and rearward to dump the contents of the box therefrom.

10. In a box handling apparatus, a frame, arms movably mounted on the frame and adapted to support a box, means to move the arms upward and rearward to tip the box and to then lower the arms, and means operating to pick the empty box from the arms as said arms are being lowered.

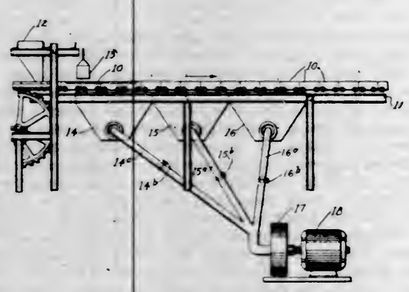
20. In a box handling apparatus, box-elevating means having upwardly moving box-supports, and a conveyor extending to the lower end of the box-elevating means, said conveyor having a substantially level portion comprising longitudinal rows of rollers at the sides of the path of motion of the box supports, and means positioned adjacent the rollers and operating in timed relation with the box-elevating means to receive a box and positively propel said box onto the rollers.

1,474,858. COFFEE URN. HENRY STROHBACH, New York, N. Y. Filed Oct. 2, 1922. Serial No. 591,980. 8 Claims. (Cl. 53—3.)



1. In a coffee machine, the combination with a water boiler, of an extract receptacle arranged therein, a percolator in the upper portion of said receptacle, a protecting casing for the extract receptacle surrounding the same and spaced therefrom for the purpose specified, and a ledge in the upper portion of said boiler on which said percolator, extract receptacle and protecting casing are all supported.

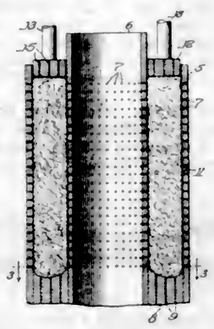
1,474,859. SINTERING APPARATUS. WALTER G. SWART, Duluth, Minn. Filed Oct. 8, 1919. Serial No. 329,314. 5 Claims. (Cl. 266—21.)



1. In an apparatus of the class described, a plurality of travelling charge carrying members, draft creating means to circulate combustion supporting air through the charges on said members, and means to gradually reduce such draft during the travel of said members.

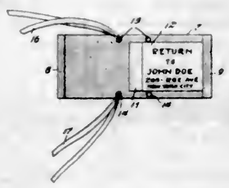
1,474,860. METHOD OF MANUFACTURING COMPOSITION TOILET SEATS AND SIMILAR ARTICLES. JOHN W. TALBOT, Chicago, Ill. Filed Jan. 13, 1921. Serial No. 437,073. 6 Claims. (Cl. 92—54.)

1. The method of making composition toilet seats and similar articles, which consists in producing a paper pulp, thoroughly mixing therewith a resinous binder in powdered form, compressing the resultant pulp mixture in perforated moulds to extract the water therefrom, subjecting the thus partially formed article to heat whereby the resinous binder is melted and caused to permeate the article, further compressing the article while hot to the



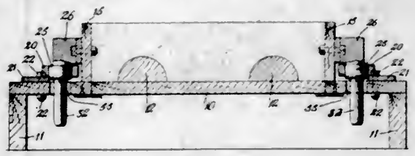
desired dimensions, burnishing the surface thereof with a hot tool, and applying a coat of finishing material thereto.

1,474,861. IDENTIFICATION DEVICE. ARLINE NORA CYNTHIA THORP, New York, N. Y. Filed Jan. 11, 1922. Serial No. 528,483. 1 Claim. (Cl. 40—20.)



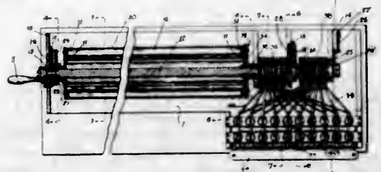
An identifying device for umbrellas and the like comprising a strip of fabric folded in half, eyelets located adjacent to the upper and lower edges of the strip on each side of the fold, a tablet adapted to bear identifying media secured to one-half of the strip, and means for connecting the two halves of the strip to form a loop to embrace a rib of the umbrella or parasol, said means comprising ribbons passed through the registering eyelets of the respective halves of the strip, one-half of the strip overlying and forming a protective cover for the tablet.

1,474,862. MOLDING MACHINE. HERBERT TOLBERT, Belle Harbor, N. Y. Filed Oct. 24, 1922. Serial No. 596,611. 9 Claims. (Cl. 22—110.)



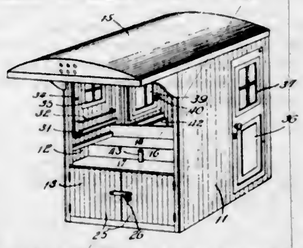
1. In a molding machine comprising a mold plate having sockets and a flask consisting of cope and drag portions, each of said flask portions having shanks engageable in said sockets to position said portions in predetermined relation to said plate, the shank of one of said portions having a tubular bore therethrough and the other of said portions having a second shank adapted to cooperate with said bore to align said portions.

1,474,863. CALCULATING MACHINE. DOUGLAS TURNER, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation of Delaware. Filed Jan. 28, 1920. Serial No. 354,568. 20 Claims. (Cl. 235—87.)



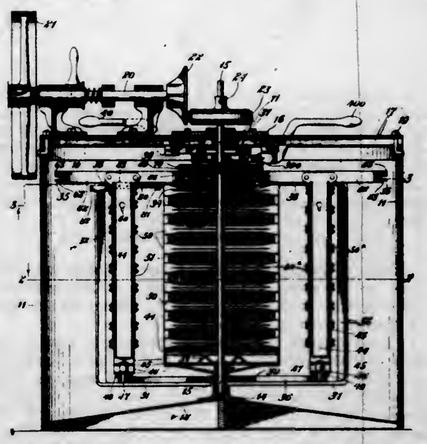
1. A machine of the class described, having a sight opening, a plurality of indicating members, each carrying a series of products thereon, a key-controlled means to position any of said members beneath said opening, and a key-controlled means to position the proper product on said member.

1,474,864. BUILDING. PHILIP A. VOGT and FRANK P. VOGT, Chicago, Ill. Filed Dec. 24, 1921. Serial No. 524,617. 4 Claims. (Cl. 20—1.)



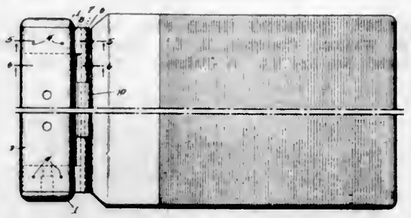
1. A vending device comprising a housing divided into a front merchandising compartment and a rear attendant's compartment, and a coin receptacle in the attendant's compartment and in communication with the merchandising compartment.

1,474,865. HONEY EXTRACTOR. WILLIAM F. VOLLMER, Akron, and JOHN N. DE MUTH, Pembroke, N. Y. Filed Nov. 8, 1920. Serial No. 422,494. 10 Claims. (Cl. 210—65.)



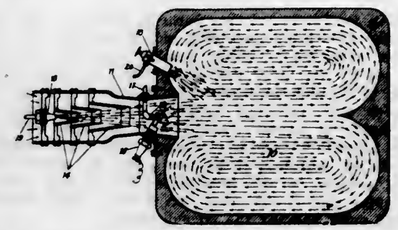
1. A honey extractor comprising a tank, a frame rotatably mounted therein, a supporting basket rotatably mounted in said frame, means for rotating said supporting basket relatively to said frame, frictional stop means mounted on said frame for limiting the rotation of said basket relatively to said frame, and a spring for holding said stop-means in engagement with said basket.

1,474,866. PLUG HINGE FOR LOOSE-LEAF BINDERS. ALWIN VON AUW, Brooklyn, N. Y., assignor to Boorum & Pease Company, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 25, 1922. Serial No. 596,766. 5 Claims. (Cl. 129—12.)



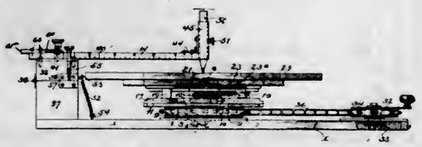
1. In a loose leaf binder, a hollow member, a one-piece end plug and hinge member fitting in said hollow member and projecting through one side thereof.

1,474,867. HYDROCARBON BURNER. EARL C. WALKER, Canton, Ill., assignor to William P. Ingersoll, Canton, Ill. Filed Mar. 22, 1920. Serial No. 367,667. 5 Claims. (Cl. 158—73.)



1. A hydrocarbon burner comprising an air induction tube, an induction nozzle stationed relatively near the air inlet of said induction tube, a fuel spray nozzle located within said induction tube ahead of said induction nozzle and in the path of the issuing jet from said induction nozzle and the air supply induced thereby, both nozzles being located substantially concentric with the throat of the induction tube.

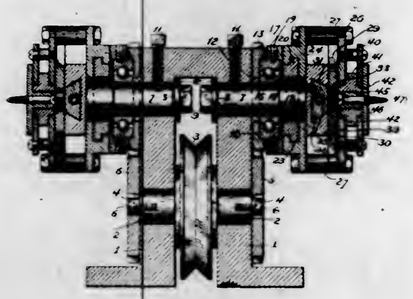
1,474,868. MACHINE FOR MAKING OR OPERATING UPON ELLIPTICAL OBJECTS. LEWIS M. WALKER, Cranston, R. I. Filed Nov. 10, 1921. Serial No. 514,343. 10 Claims. (Cl. 33—30.)



1. In mechanism of the character described, the combination with a rigid shaft, a driving wheel mounted thereon and a driving plate secured to the driving wheel, of a turning head comprising upper and lower plates spaced apart and secured together, the lower plate of said turning head having sliding connection with said driving plate, the upper plate of said turning head

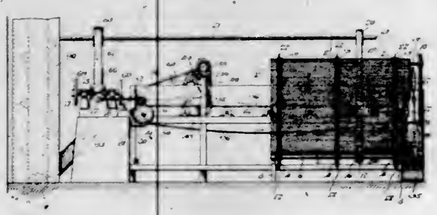
having a guideway on its under side disposed at right angles to the sliding connection between the lower plate and the driving plate, a rigid head on the rigid shaft and disposed between the plates of the turning head, a pivot member adjustably supported by said head, a fulcrum member mounted on the pivot member and movable in the guideway of the upper plate of the turning head, a support for work holding means mounted on said turning head, and tool holding means having a part disposed in a plane over the work supporting means.

1,474,869. TURNING HEAD FOR LATHES. LEWIS M. WALKER, Cranston, R. I. Filed Dec. 27, 1921. Serial No. 524,914. 5 Claims. (Cl. 142—16.)



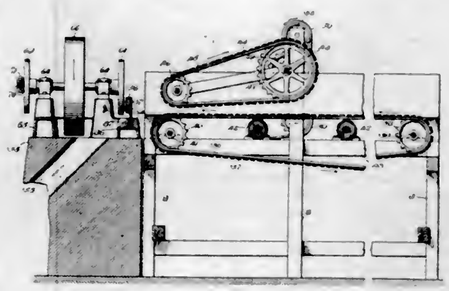
1. In mechanism of the character described, the combination of a fixed supporting rod, a head on the outer end of said rod, a driving member rotatably fitted on the rod at the inner side of the head, a sliding plate fitted to the driving member and held between the said member and the head, a pivot member mounted on the head; a second slidable plate engaged with the pivot member for sliding movement at a right angle to the sliding movement of the first plate, the second plate being secured to the first plate and bearing against the outer side of the head, and a work holder secured to the outer face of the second plate.

1,474,870. APPARATUS FOR PREPARING CANE FOR EXTRACTION. EDWARD WESSALE, Waconia, Minn. Original application filed Aug. 16, 1920, Serial No. 403,996. Divided and this application filed Feb. 17, 1922. Serial No. 537,262. 14 Claims. (Cl. 146—33.)



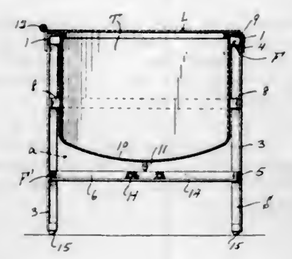
1. In an apparatus for preparing cane for extraction, the combination of a conveyer adapted to have the harvested cane transversely positioned thereon with the top portions arranged at one side thereof, opposed members positioned adjacent the side of the conveyer and adapted to receive the top portion of the cane therebetween, cutting means co-operable with said opposed members to sever the cane tops and means to actuate said conveyer and said cutting means.

1,474,871. APPARATUS FOR PREPARING CANE FOR EXTRACTION. EDWARD WESSALE, Waconia, Minn. Original application filed Aug. 16, 1920, Serial No. 403,996. Divided and this application filed Feb. 17, 1922. Serial No. 537,263. 8 Claims. (Cl. 146—133.)



1. In an apparatus for preparing cane for extraction, the combination of an eccentrically mounted knife guided to maintain its edge at all times in the same plane and adapted to provide a succession of drawing cuts, means to actuate the knife, means to present cane longitudinally to said knife whereby the cane is transversely cut into sections, and means to actuate the last mentioned means.

1,474,872. LAUNDRY TUB. CLARENCE W. WITT, Wheeling, W. Va. Filed Feb. 28, 1920. Serial No. 362,036. 1 Claim. (Cl. 68—31.)

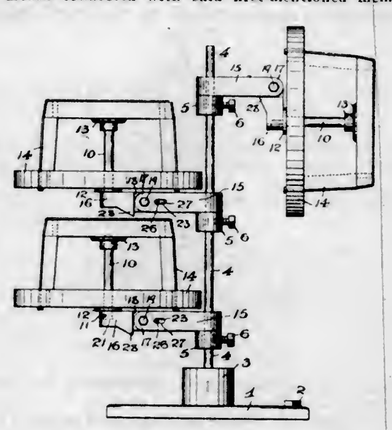


In combination, a portable structure comprising vertically spaced frames, a tub freely insertable through the upper frame, the upper marginal portions of the tub being defined by outstanding flanges contacting with the frame whereby the tub is supported in applied position, a cover for said tub, and means for hingedly connecting said cover with one of the members of the upper frame.

1,474,873. REEL CARRIER. GEORGE WOODWARD, Newark, N. J., assignor to Igoe Bros., a Corporation of New Jersey. Filed Apr. 15, 1920. Serial No. 374,045. 2 Claims. (Cl. 242—85.)

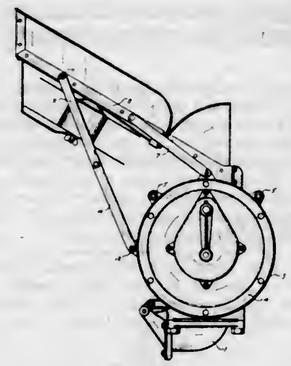
1. A reel-carrier comprising a standard or post, a plurality of reel-receiving elements, each element consisting of a pair of hinged members, one of said members being connected with said standard or post, so as to extend laterally at a right angle therefrom, and means connected with the other member for rotatably mounting a reel thereon, a retaining means at the hinged portion of said members for holding said members horizontally in rigid relation, but adapted to be operated so as to allow

the reel-carrier to drop and hang vertically with relation to the member which is affixed to the standard or post, and means connected with said first-mentioned member



slidably disposed upon said standard or post for vertical adjustment of the entire reel-carrier upon said standard or post.

1,474,874. PAPER-BALING MACHINE. WILLIAM A. WULLE, St. Louis, Mo. Filed July 1, 1921. Serial No. 481,808. 24 Claims. (Cl. 100—31.)

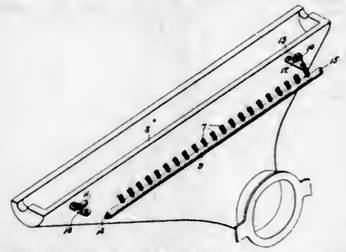


1. A device of the character described, comprising, means for receiving the article, means for rolling the article double with the edges thereof overlapping, and means for binding the rolled article.

18. In a device of the character described, rolling means, comprising, a fork adapted to engage the article intermediate its edges, means for rotating and translating said fork to roll the article adapted to deliver the rolled article to the bight of a tie, and means for applying the tie to the rolled article.

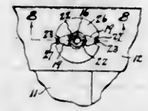
1,474,875. ADJUSTABLE BRUSH FOR VACUUM CLEANERS. THOMAS O. ADAMS, New Philadelphia, Ohio, assignor to The Wise-McClung Manufacturing Company, New Philadelphia, Ohio, a Corporation of Ohio. Filed Oct. 9, 1922. Serial No. 593,242. 4 Claims. (Cl. 15—158.)

1. The combination with a suction cleaning nozzle having lips for contact with the surface to be cleaned, of a rotatable rod mounted parallel to one of said lips, a brush upon said rod, locking means for holding the



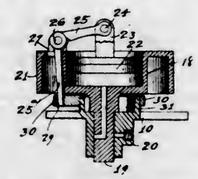
brush in the operative or inoperative position, and means for sliding the rod longitudinally to disengage the locking means.

1,474,876. ENVELOPE-FASTENING DEVICE. PRESTON L. ANDREWS, Brooklyn, N. Y. Filed Apr. 26, 1922. Serial No. 556,583. 2 Claims. (Cl. 229—78.)



1. The combination with an envelope and its perforate flap, of a perforate reenforcing disc secured to said flap in registration with the perforation of the latter, a metallic fastener, comprising a base having means for securing the same to the envelope body beneath the flap and alined with the perforation thereof, fastener arms integrally connected with said base to extend outwardly from the periphery thereof and normally disposed in the plane thereof, the free extremity of said arms terminating in downwardly inclined tip-portions; and said reenforcing disc having suitably disposed recesses to receive said downwardly inclined tip-portions.

1,474,877. PUMP. CHARLES A. ANDERSON, Chicago, Ill. Filed Oct. 16, 1919. Serial No. 331,075. 16 Claims. (Cl. 103—160.)

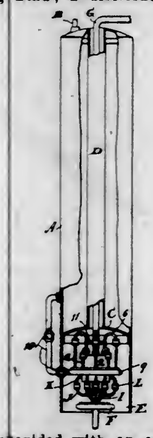


1. In a pump, the combination with a driving member, of a rotatable cylinder frictionally driven from said driving member and having a reciprocating piston therein, a bell crank lever pivoted on said rotating cylinder operated through a stationary eccentric and transmitting the reciprocating movement to the piston, and inlet and outlet ports controlled by the rotation of the cylinder.

1,474,878. WATER HEATER. JOHN ARCHER, Toronto, Ontario, Canada. Filed June 19, 1922. Serial No. 569,301. 4 Claims. (Cl. 122—333.)

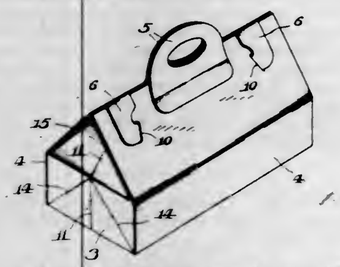
1. A water heater comprising a cylindrical heating drum provided with a plurality of passage-ways extending longitudinally thereof, and further provided with longitudinal gas passages between said passageways; a distributing head located below said drum; a plurality of conduits leading from said distributing head to the lower ends of said passage-ways formed in said drum; an in-

take pipe extending through said drum and coupled to said distributing head; a distributing ring surrounding



said drum and provided with an outlet, and a plurality of conduits connecting the upper ends of said passageways formed in said drum with said distributing ring.

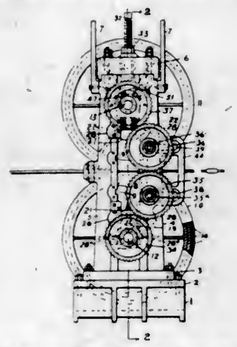
1,474,879. FOLDABLE HAND BAG. CHARLES S. AYRES, Riverton, N. J., assignor, by direct and mesne assignments, to Chas. S. Ayres, Inc., Camden, N. J., a Corporation of New Jersey. Filed Oct. 12, 1922. Serial No. 593,951. 4 Claims. (Cl. 229—54.)



2. A foldable hand bag comprising end walls, side walls and a foldable bottom wall and having a longitudinal crease extending centrally through the end and bottom walls and having in the region of each junction of the end and bottom walls a pair of diagonally extending creases which diverge from said longitudinal crease to bottom corners of the bag and permit the ends and bottom walls to be folded to bring the side walls toward each other to collapse the bag, each end wall having a transverse crease extending from side to side thereof and crossing the longitudinal crease, and each end wall having diagonal creases which converge upwardly from the transverse crease, the transverse and last named diagonal creases permitting the upper portions of the end walls to be folded inwardly to bring the upper portions of the side walls toward each other to close the upper portion of the bag when it is uncollapsed.

1,474,880. MILL FOR ROLLING SHAPES. GEORGE BAEHR, Coraopolis, Pa. Original application filed July 31, 1918, Serial No. 274,659. Divided and this application filed Oct. 18, 1920. Serial No. 417,729. 6 Claims. (Cl. 80—56.)

6. In combination, a pair of rolls provided with die faces, shafts therefor, housings in which shafts are mounted, intermeshing gears connecting said shafts, and means to adjust the relation of one roll shaft to its gear comprising a sleeve keyed to the roll shaft and provided with an outwardly projecting web, the gear surrounding said sleeve and provided with an inwardly projecting web having a slot therethrough, a lug on the sleeve web extending through said slot, lugs on the web of the gear on opposite sides of the slot, screws threaded



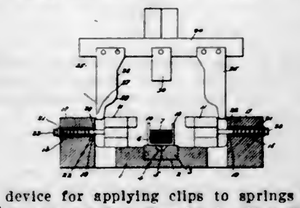
through said lugs, and bearing against said first named lug from each end of the slot, whereby to adjust the gear rotatably relative to the sleeve, and clamping bolts extending through matching openings in the sleeve and gear webs for clamping them together.

1,474,881. PROCESS OF FORMING HOLLOW CONCRETE BODIES. HENRY BARKSCHAT, Los Angeles, Calif., assignor of one-half to Edmund B. Blinn, Pasadena, Calif. Filed Aug. 8, 1919. Serial No. 316,046. 3 Claims. (Cl. 25—30.)



1. The herein described process of forming a cementitious body, comprising filling a mold with a wet unset cementitious mixture containing an excess of water above the amount required to set the mixture, rotating the mold and cementitious mixture about an axis within itself, and allowing flow of the excess water out of the mixture and out of the mold along the axis of rotation continuously and simultaneously with the inward flow of the excess water to the axis.

1,474,882. DIE. EDWARD J. BAUMGARTEN, Canton, Ohio, assignor of one-half to The Beans Spring Company, Massillon, Ohio, a Corporation of Ohio. Filed Oct. 14, 1921. Serial No. 507,649. 4 Claims. (Cl. 153—13.)



1. A device for applying clips to springs including a stationary base bending dies for bending the free ends of a clip over the spring, a presser head, cams upon the presser head for operating the bending dies, said base being provided with apertures to receive the cams and a clinching die upon the presser head for clinching the ends of the clip.

1,474,883. SEAL FOR HOOP-IRON ENDS. JOSEF BAYER, Barmen, Germany. Filed July 22, 1922. Serial No. 576,862. 9 Claims. (Cl. 24—23.)

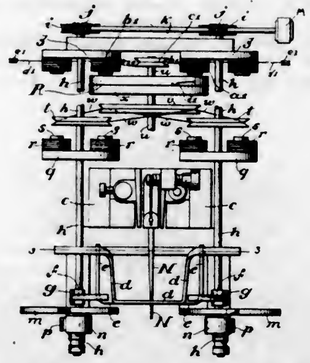
1. A hoop-iron joint comprising two superposed hoop-iron ends and a joining member enclosing said ends, a

smooth upper surface on said joint, and fingerlike depressions at both edges of the joint bent in the same



direction and projecting at an angle from the underside of the joint only, substantially as set forth.

1,474,884. AUTOMATIC CONTROL APPARATUS. LEO BEHR, Philadelphia, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 12, 1920. Serial No. 423,724. 34 Claims. (Cl. 236—1.)



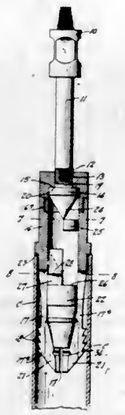
1. Control apparatus comprising a deflecting member, a movable structure, a source of power for actuating the same, and means controlling coaction between said source of power and said movable structure comprising a member engaging said deflecting member with resultant relative movement between them for a period corresponding with the extent of deflection of said deflecting member with a pressure greater than the pressure of contact due to the force causing deflection of said deflecting member.

1,474,885. COMBINED PENCIL SHARPENER AND HOLDER. WILLIAM T. BOICE, Nashua, Iowa. Filed May 17, 1922. Serial No. 561,670. 1 Claim. (Cl. 120—87.)



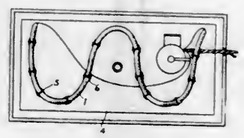
A pencil holder of the class described comprising a tubular body portion provided at one end with diametrically opposed slits, a band about the slitted end of the body, a clip having a curved-in spring extension abutting the holder for normally holding the slits closed.

1,474,886. CASING SPEAR. GUY W. BOYCE, Slick, Okla. Filed Dec. 20, 1922. Serial No. 608,005. 7 Claims. (Cl. 294—96.)



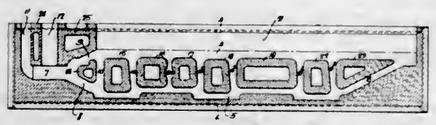
1. In a casing spear, a guide element adapted at its upper end for engagement with an operating line, a spear element surrounding the guide element and provided at its lower end with expansible sections having toothed outer faces, slips carried by the expansible sections, a mandrel within the spear element for expanding said sections by engagement with said slips, and a member carried by the lower end of the guide element and engageable with the mandrel element to force the same downwardly for engagement with the slips or to withdraw the same from engagement with the slips.

1,474,887. ELECTRIC HEATING ELEMENT. RAY GEORGE BRIDGES, Toronto, Ontario, Canada. Filed Mar. 27, 1922. Serial No. 547,308. 1 Claim. (Cl. 219—46.)



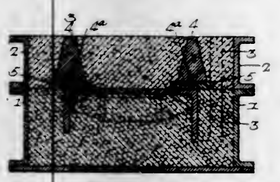
A heating element, comprising a tube of woven asbestos fibre, and a spirally coiled resistance wire arranged within and enclosed by said tube.

1,474,888. METHOD OF CASTING STEEL FRAMES. FRANK BRINER, Chester, Pa., assignor to Penn Seaboard Steel Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 29, 1920. Serial No. 420,436. 7 Claims. (Cl. 22—134.)



1. The method of casting a locomotive side frame which consists in forming a mold of the frame, with a riser cavity co-extensive with one of the longitudinal members thereof; and pouring the casting with the cavities defining the frame in a vertical plane and below the riser cavity.

1,474,889. FEEDING HEAD. FRANK BRINER, Chester, Pa., assignor to Penn Seaboard Steel Corporation, Chester, Pa., a Corporation. Filed May 6, 1921. Serial No. 467,400. 2 Claims. (Cl. 22—134.)



1. In a mold for metal castings, the combination with a drag flask, of a cope flask having an opening substantially in the form of a truncated cone the base of which lies substantially at the bottom of the cope, and a recess constituting a seat for a core restricting the area of the base of the cone and forming a channel communicating with the pattern opening.

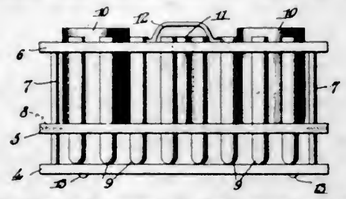
1,474,890. CANDLE-SHAPING MACHINE. JESSE ENSIGN BRINKER and CLAUDE PERKINS MCNEIL, Whiting, Ind., assignors to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Nov. 25, 1922. Serial No. 603,212. 2 Claims. (Cl. 18—1.)



1. In a candle shaping machine, a tubular guide provided with a side opening for the insertion of a candle, a tubular cutter mount axially aligned with said guide, trimming blades adjustably mounted thereupon, a shaping die axially aligned with the cutter mount, a plunger reciprocable in the tubular guide and mount, and means for operating the plunger for forcing a candle therethrough.

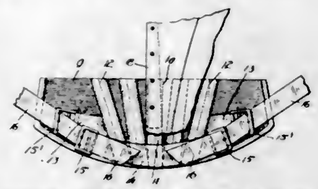
1,474,891. THERMOMETER RACK. MARY ADALINE BURT, Brooklyn, and STANLEY JAY STANLEY, New York, N. Y.; said Burt assignor to said Stanley. Filed July 18, 1922. Serial No. 575,887. 5 Claims. (Cl. 224—45.)

1. In a device of the class described, a plurality of plates arranged in spaced parallel superimposed relation and connected together, a handle attached to the topmost of said plates at the center thereof, a series of relatively small tubes carried by said plates near the longitudinal edges thereof, relatively large jars carried



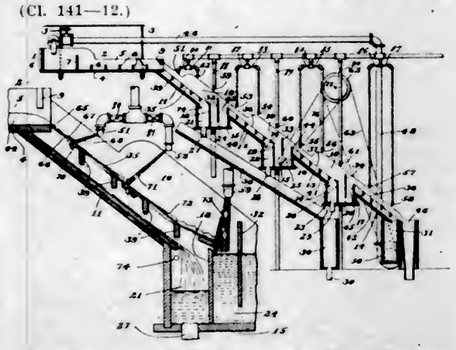
by said plates and disposed in the longitudinal center of the topmost of said plates, and a lubricant jar carried by said plates inwardly from one of the series of tubes.

1,474,892. CORSET. LORETA ASTARITA CIRILLO, New York, N. Y. Filed Sept. 18, 1919. Serial No. 324,374. 2 Claims. (Cl. 2—73.)



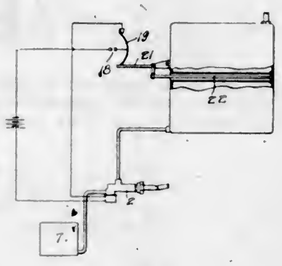
1. In combination with a front opening corset having a pendent beak at the front thereof, a pad extending transversely of the beak and secured to the under face thereof at one edge of the front opening of the corset with its opposite ends extending beyond the opposite side edges of the beak, a strap extending along the lower edge portion of said pad, buckles secured on the opposite free ends of said strap and spaced inwardly of the ends of said pad, straps extending longitudinally of said pad above the first mentioned strap and having their outer free ends extending beyond the free ends of the latter, buckles carried by the free ends of said last mentioned straps and positioned closer to the ends of the pad than said first mentioned buckles, and straps extending from the rear portion of the corset, which when in use, are adapted to be brought forwardly and downwardly at opposite sides of the latter and to have their free ends engaged first in the said last mentioned buckles and then in said first mentioned buckles, whereby the pad is drawn substantially taut transversely of the abdomen of the wearer and the lower portion thereof in an upward direction to lift and support the lower portion of the abdomen.

1,474,893. APPARATUS FOR WASHING PAPER-MAKING STOCK. BIGELOW CROCKER, Fitchburg, Mass. Filed Jan. 10, 1922. Serial No. 528,250. 3 Claims. (Cl. 141—12.)



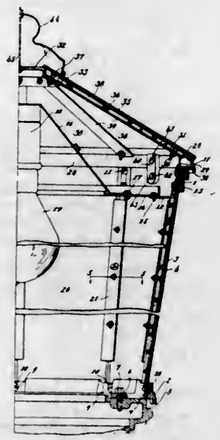
1. Apparatus for washing paper making fibre stock, consisting of an inclined wire screen, the size of its mesh and the angle of its inclination permitting dirty water after the delivery of the stock suspended in water, to the screen to pass through and away from the screen, and only the stock to remain upon and move down over the screen, by gravity.

1,474,894. APPARATUS FOR CONTROLLING THE FLOW OF LIQUIDS. JESSE WARREN DOBLE, San Francisco, Calif., assignor to Doble Laboratories, San Francisco, Calif., a Corporation of California. Filed Apr. 10, 1918. Serial No. 227,787. 8 Claims. (Cl. 103—15.)



1. In combination, a pump, a steam generator arranged to be supplied with liquid from the pump, means for rendering the pump operative and inoperative to pump liquid, and means for controlling the temperature with the generator, comprising means responsive to temperature changes in the steam generator for controlling the means for rendering the pump operative and inoperative.

1,474,895. LANTERN. HERBERT C. DRUMM, Canton, Ohio, assignor to The Union Metal Manufacturing Company, Canton, Ohio, a Corporation of Ohio. Filed Dec. 18, 1919. Serial No. 345,783. 1 Claim. (Cl. 240—25.)



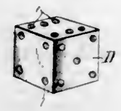
A lantern including a frame having upright members and glass panels supported thereon, brackets mounted upon the upper portion of the frame, an annular reflector supported upon the brackets and provided with a central opening, an inverted U-shaped bracket extending upward from said reflector and a lamp depending from said U-shaped bracket and through the central opening in the reflector.

1,474,896. GARMENT. OLAF EKBERG, Topeka, Kans. Filed Mar. 18, 1922. Serial No. 544,839. 2 Claims. (Cl. 2—62.)



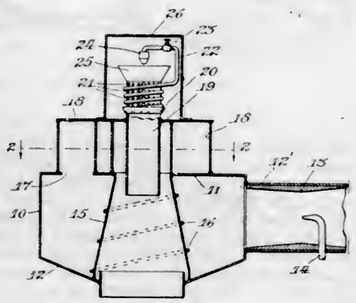
2. A coat having a collar and lapels, the ends of the collar being spaced from the lapels and having longitudinally slits from their outer ends inwardly so that the collar is adapted in one position to lie flat against the shoulder and in another position to fold along the lines of the slits, and means for fastening the inside of the collar portions together when the collar is folded along the line of the slits.

1,474,897. DIE. LEWIS B. ELLIOTT, Colorado, Tex. Filed Dec. 21, 1922. Serial No. 608,276. 1 Claim. (Cl. 46—56.)



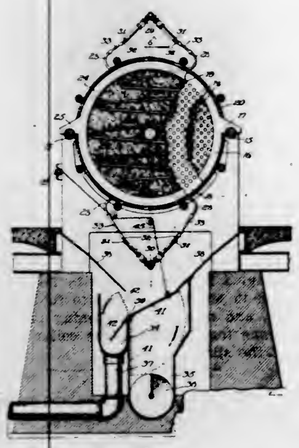
As a new article of manufacture, a playing die provided with luminous dots, each of said dots comprising a recess, a lamination of luminous material at the bottom of said recess, and a transparent protective material within the recess outwardly of the luminous lamination.

1,474,898. FUEL BURNER. CHARLES A. FRENCH, Columbus, Ohio, assignor to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 31, 1922. Serial No. 585,423. 10 Claims. (Cl. 158—28.)



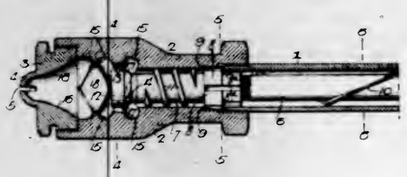
6. In a burner, the combination of a circular drum having upper and lower heads, a burner tube extending through both heads and open at its lower end, means for supplying a combustible mixture to the drum, and a spiral conduit connected at one end to the upper head and at the other end terminating in a sharp edge and communicating with the upper end of the tube, whereby vaporized mixture from the drum will have a whirling motion in the burner tube.

1,474,899. ART OF FILTRATION. HARRY F. GLAIR and EDWARD J. WONNACOTT, Whiting, Ind., assignors to Standard Oil Company (of Indiana), Whiting, Ind., a Corporation of Indiana. Filed Aug. 11, 1920. Serial No. 402,809. 5 Claims. (Cl. 210—191.)



1. In apparatus for filtering wax from chilled oil, in combination, a filter surface, means for uniformly supporting said surface, means for forcing chilled oil through said surface, thereby depositing wax thereupon, and heating means adjacent the filter surface and upon the side opposite the support thereof for applying heat to the wax deposited thereupon.

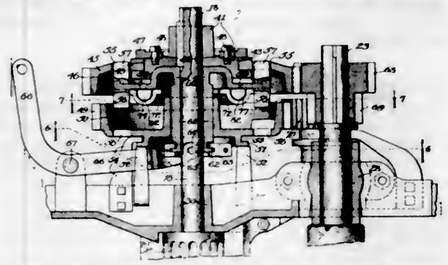
1,474,900. OIL BURNER. LESTER M. GOLDSMITH, Philadelphia, Pa. Filed Dec. 6, 1922. Serial No. 605,197. 8 Claims. (Cl. 158—75.)



1. The combination in an oil burner, of a head; a mixing chamber within the head, said head having a slot at its outlet end; an oil pipe attached to the head; a steam pipe within the burner and having an enlarged cap located in the rear end of the mixing chamber, said head having radial passages therein; and means for imparting a spiral movement to the oil before it passes the head, the steam being projected into the oil without materially interfering with the forward movement of the oil.

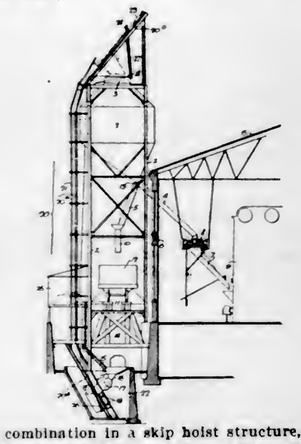
1,474,901. TRANSMISSION MECHANISM. FRANK M. GOODHUE, Van Nuys, Calif., assignor of one-half to James E. Goodhue, St. Charles, Ill. Filed June 15, 1923. Serial No. 645,552. 8 Claims. (Cl. 74—59.)

1. In transmission mechanism, the combination of a drive shaft, a driven shaft, gears rotatable relative to said driven shaft and driven from said drive shaft in opposite directions, and means whereby said gears may be alternately engaged with said driven shaft involving a member fixed on said driven shaft and a second member



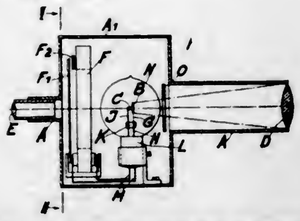
slidable along said driven shaft and in driving engagement with said first-referred-to member and adapted to be moved into engagement with either of said gears.

1,474,902. SKIP HOIST. WILLIAM E. HALE, Fort Washington, Pa., assignor to R. H. Beaumont Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 29, 1922. Serial No. 609,618. 4 Claims. (Cl. 214—120.)



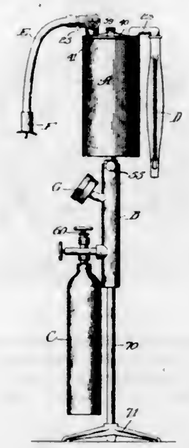
1. The combination in a skip hoist structure, of a railway track; a hopper arranged to receive material from a car on the track; a track for a skip hoist bucket having upper and lower inclined sections extending under the hopper and railway track, the upper inclined section extending in the same direction, laterally, as the lower section; and a skip hoist bucket arranged to travel on the said skip hoist track.

1,474,903. PYROMETER. RUDOLF HASE, Hanover, Germany. Filed July 26, 1922. Serial No. 577,749. 6 Claims. (Cl. 73—32.)



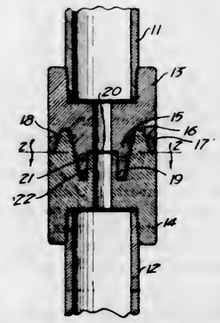
1. A telescopic pyrometer comprising in combination an optical system, a casing enclosing and supporting said optical system, a thermo couple mounted within said casing in the axis of said system, a galvanometer also mounted within said casing and conductors connecting said thermo couple with said galvanometer.

1,474,904. MEASURING DEVICE. HORRY M. JONES, Chicago, Ill. Filed July 16, 1920. Serial No. 396,780. 11 Claims. (Cl. 128—191.)



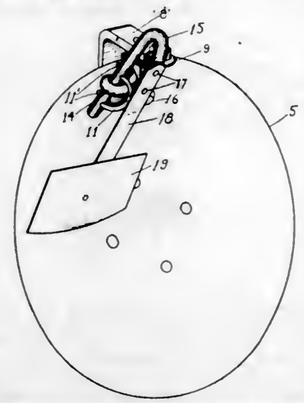
1. In a device of the character described, an extensible breathing bag adapted to retain gases exhaled into it and permit their reinspiration, means for removing the carbon dioxide gas from such gases, and means for introducing into such gases a predetermined quantity of oxygen, such means comprising an oxygen measuring tank connected to the breathing bag, and an oxygen supply tank connected to the oxygen measuring tank.

1,474,905. TOOL JOINT. ALEXANDER S. KESZTHELYI, Los Angeles, Calif. Filed Jan. 12, 1923. Serial No. 612,285. 5 Claims. (Cl. 285—146.)



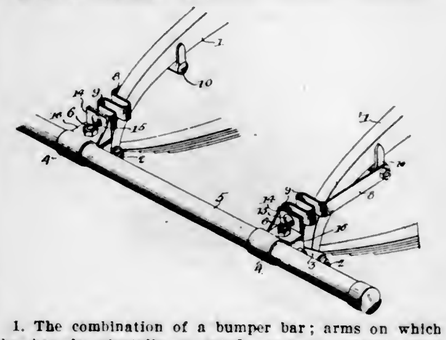
1. A tool joint comprising: a primary collar adapted to be secured to a joint of pipe and having an opening therethrough, said opening being in open communication with the interior of said pipe; a secondary collar adapted to be secured to a joint of pipe and having an opening therethrough, said opening being in open communication with the interior of said pipe; a lip formed on the outer edge of said primary collar and enclosing a groove; a projecting portion of said secondary collar fitting inside said groove and inside said lip; and threaded means for forcing said collar towards each other in an axial direction.

1,474,906. FLEXIBLE DISK-PLOW SCRAPER. ALEXUS C. LINDGREN, Evanston, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed May 14, 1920. Serial No. 381,438. 3 Claims. (Cl. 97—223.)



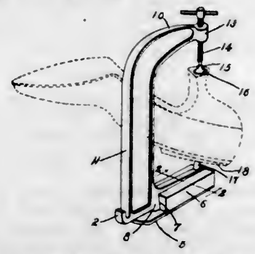
1. The combination of a disk, a support overhanging the face of the disk, a clamp on the support, a U-shaped scraper-shank having one arm adjustably carried by the clamp, a flexible member forming an extension of the other arm and a scraping element on the flexible member with its edge adjacent the disk.

1,474,907. BUMPER. JOHN I. MCCORMICK, Philadelphia, Pa. Filed June 7, 1923. Serial No. 643,894. 6 Claims. (Cl. 293—55.)



1. The combination of a bumper bar; arms on which the bar is pivotally mounted; and corrugated plate springs located back of the bumper bar.

1,474,908. CLAMP. WILLIAM FARNELL MARBLE, Haverhill, Mass. Filed Apr. 1, 1921. Serial No. 457,580. 3 Claims. (Cl. 12—125.)



1. A shoe clamp including a curved body portion having parallel arms, one of said arms having an enlarge-

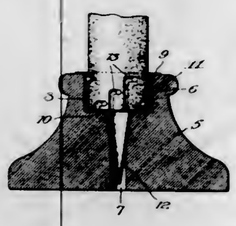
ment formed with a threaded opening, a finger extending upwardly from the opposite arm, said finger having a rounded outer end and being of a diameter greater than the diameter of a last thimble to cause a last supported by the clamp to automatically adjust itself, and means cooperating with the finger for clamping a heel.

1,474,909. VAPORIZING ATTACHMENT FOR INTERNAL-COMBUSTION ENGINES. JULIUS MEDVECZKY, New York, N. Y. Filed Sept. 25, 1918. Serial No. 255,678. 3 Claims. (Cl. 219—38.)



1. The combination with a carbureter, of a charge conveying conduit leading therefrom, a plate member of electric insulating material inserted between said carbureter and said conduit having an aperture to permit the passage of the charges from said carbureter to said conduit, and a heater carried by said plate member consisting of an electric resistance in the form of a conically wound spiral inserted into an electric circuit, the base of said conical spiral being disposed within said aperture and its apex projecting into said conduit.

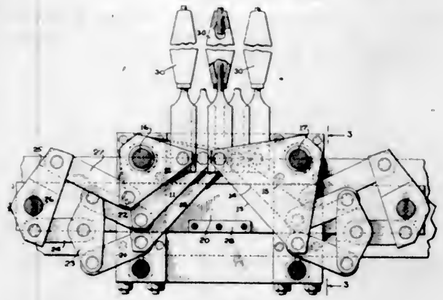
1,474,910. CANDLE-SUPPORTING CUP FOR CANDLE BASES. PETER A. PETERSEN, Whiting, Ind., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed July 7, 1922. Serial No. 573,306. 1 Claim. (Cl. 67—23.)



The combination with a candle base having an opening at its top and a bore of smaller diameter extending downwardly therefrom, of a candle cup having a cylindrical body portion seating in the correspondingly shaped opening in the base and having a downwardly projecting member extending from its base and seating in the correspondingly shaped bore in the candle base, the cylindrical body portion of said candle cup being provided with a series of obliquely alined inwardly projecting indentations adapted to take into the candle and to assist in holding the same in place.

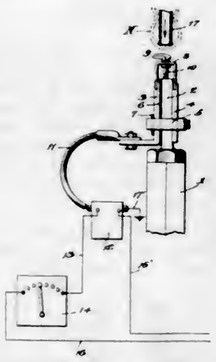
1,474,911. CABLE-TENSION-EQUALIZING DEVICE. CHARLES R. PRATT, Montclair, N. J., and JOHN C. HESLIP, Kansas City, Mo.; said Heslip assignor to said Pratt. Filed Apr. 6, 1921. Serial No. 459,132. 13 Claims. (Cl. 187—1.)

5. In an elevator, in combination, a car, a counterweight, a plurality of parallel cables, connecting means between the several cables and the counterweight tending to equalize the strains on the several cables and tending also to maintain the cable ends even, and connecting means between the cables and the car tending to equalize the strains on the several cables, comprising members mounted on pivots fixed to the car and means connecting said members to cause the rotative effort



acting on one member to oppose the rotative effort acting on another, substantially as and for the purpose described.

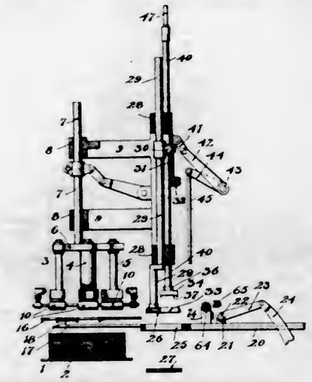
1,474,912. ELECTRIC PERFORATING DEVICE. PAUL A. RAICHE, Providence, R. I., assignor to Davol Rubber Company, Providence, R. I. Filed May 16, 1922. Serial No. 561,271. 7 Claims. (Cl. 164—86.)



1. In a nipple perforating device, a plunger having a stem, a pair of conductor bars disposed on opposite sides of the stem, a clamp for connecting the bars to the stem, insulation between one of the bars and the stem and between said bar and the clamp, a circuit including the bars, an inverted U-shaped resistance bar secured at its free ends to the bars, points carried by the U-shaped bar, a screw between the stem and the main part of the U-shaped bar to support the latter, and a work holder alined with the points.

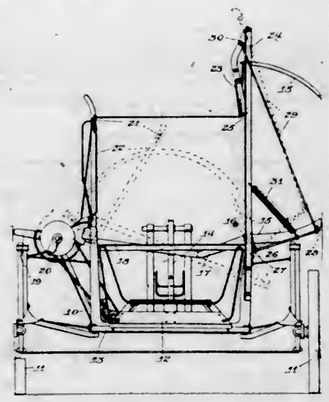
1,474,913. PATCH-APPLYING MECHANISM FOR WINDOW ENVELOPES. HARRY RADZINSKY, New York, N. Y., assignor to General Paper Goods Manufacturing Co., New York, N. Y., a Corporation of New York. Filed Dec. 3, 1921. Serial No. 519,716. 12 Claims. (Cl. 93—61.)

1. In a machine of the class described, an apertured creasing plunger, a creasing plate, a folding bed, and a patch-applying member, means for moving said plunger and patch-applying member independently of one another, means for supplying patches to the patch-applying member, means for causing the creasing plunger to force a blank through the creasing plate while the patch-applying member is held above and at a distance from said creasing plunger, means for causing the patch-applying member to move into the aperture in the creasing plunger after the plunger has reached the limit



of its movement towards the folding bed and means for causing said patch-applying member to apply a patch to the creased blank while the same is held stationary on the folding bed by the creasing plunger.

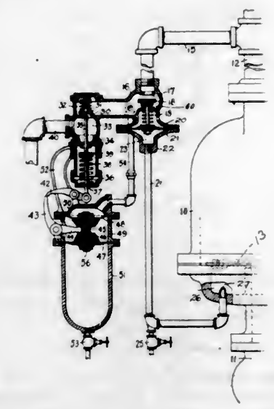
1,474,914. SHOCKER TWINE-GUIDING ARM. CLEMMA R. RANEY, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Mar. 1, 1919. Serial No. 280,149. 16 Claims. (Cl. 56—429.)



1. In a shocker, a frame, a sheaf receptacle carried thereby, a needle mounted on said frame at one side of said receptacle, a knotting mechanism carried by said frame at the opposite side of said receptacle and twine guiding means carried by said shocker frame and normally positioned in the path of movement of said needle intermediate said needle and said knotter mechanism.

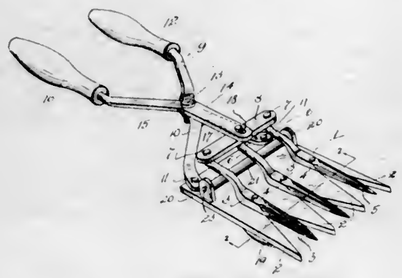
1,474,915. EXHAUSTER FOR DRY-PIPE SYSTEMS. GEORGE I. ROCKWOOD, Worcester, Mass. Filed July 29, 1920, Serial No. 399,776. Renewed Apr. 23, 1923. 11 Claims. (Cl. 169—17.)

1. In a dry pipe valve system, the combination with the dry pipe valve, a main for supplying the water thereto, and a riser, of an air chamber, a pneumatic device closing one end of the air chamber, the other side of said pneumatic device communicating freely with said riser to place a pressure equal to the pressure in the riser on one side thereof, means for allowing leakage constantly from one side of the pneumatic device



to the other to balance it normally, and means, operated by the action thereof, for releasing to the atmosphere the air under higher pressure in the riser when its pressure has been slightly reduced by the opening of one or more sprinkler heads.

1,474,916. HEDGE AND GRASS TRIMMER. CHARLES ROSEL, Newark, Ohio. Filed Jan. 11, 1922. Serial No. 528,361. 1 Claim. (Cl. 30—11.)

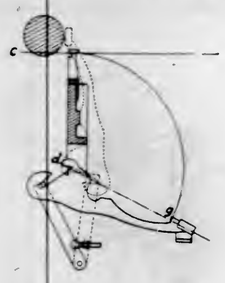


A trimmer comprising a base plate having guide teeth formed therewith, pivotally mounted cutters provided upon said base plate and arranged to oscillate over said teeth, said cutters terminating in arms disposed above said base plate, an eccentrically mounted rod carried by said base plate and arranged for engagement with said arms to govern the frictional relationship between said cutters and the upper surface of said plate.

1,474,917. TYPEWRITER. CARL SCHLÜNS, Thuringia, Germany, assignor to Mercedes Büromaschinen- und Waffenwerke, Post Mehlis, Germany. Filed Jan. 17, 1921. Serial No. 437,985. 2 Claims. (Cl. 197—22.) (Granted under the privisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

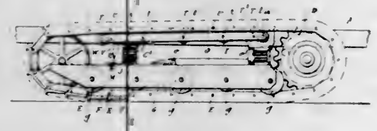
1. In a typewriting machine of substantially standard proportions in which the standard vertical distance of approximately 75 mm. is maintained between the printing point and the nesting point of the type heads, a

platen, and a type bar, the length of said type bar being substantially two-thirds the vertical distance of the nesting point of the type heads from the printing point,



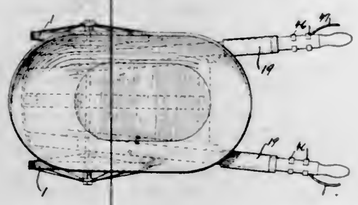
said type bar being so mounted wth respect to said platen as to swing through an arc substantially more than 100° and less than 140°.

1,474,918. ENDLESS-TRACK MOTOR CAR. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Joint Stock Company of France. Filed Feb. 28, 1920. Serial No. 362,112. 13 Claims. (Cl. 305—9.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



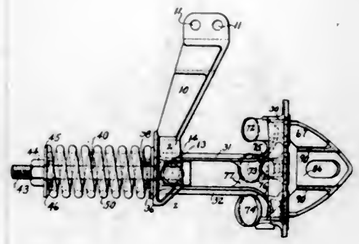
1. In an endless track vehicle, the combination of a main frame, trucks within the endless tracks and supporting said main frame, a cross-beam having ball and socket connections at its ends with said trucks, and a universal connection for said cross-beam with said main frame including a resilient element interposed therebetween.

1,474,919. WHEELBARROW. FREDERICK R. SHUGART, Sacramento, Calif. Filed Mar. 14, 1922. Serial No. 543,608. 3 Claims. (Cl. 280—51.)



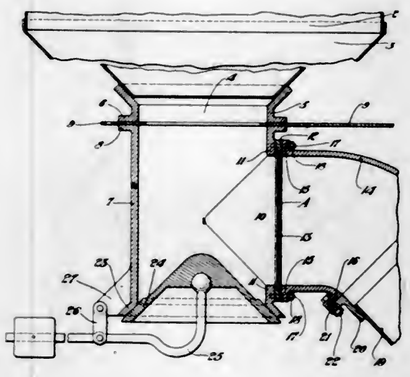
1. In a wheelbarrow having body supporting shafts and handles associated therewith, a hinged connection between each shaft and its handle allowing the latter to drop relative to the former and including side guide members for guiding the handle, a stop supported between said members for limiting the motion of the handle, registering perforations in the guide members underneath the handles in their alined position and a pin flexibly supported on each hinge adapted to be inserted through the said perforations so as to render the connection rigid.

1,474,920. AUTOMATIC CONNECTER FOR TRAIN PIPES. JOHN G. TALMAGE, Cleveland, Ohio; Allie O. Talmage and Rhea Talmage Roby executrices of said John G. Talmage, deceased. Filed Dec. 13, 1919. Serial No. 344,668. 15 Claims. (Cl. 285—24.)



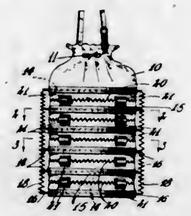
1. In an automatic connecter, the combination of a bracket, a pivot pin mounted therein, a head having a shank extending across the pivot pin, the pivot pin having an opening through it, a spring restraining rod extending through the opening and having a head engaging the pivot pin and a spring compressed between means on the rear portion of the rod and the shank.

1,474,921. SCREEN FOR DUST CATCHERS. GEORGE W. VREELAND, Steubenville, Ohio. Filed Oct. 17, 1921. Serial No. 508,275. 3 Claims. (Cl. 183—1.)



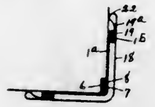
1. The combination with a dust catcher for separating flue dust and other foreign matter from blast furnace gases, having a discharge port for the separated matter and a goggle valve for controlling said discharge port, of a chamber below said dust catcher discharge port, said chamber being provided with a discharge port in the lower end thereof and a second discharge port in the side wall thereof, means for closing the discharge port in the lower end of said chamber, a conduit leading from the discharge port in the side wall of said chamber, and a screen mounted in said last named discharge port whereby the fine particles of matter are permitted to pass through said conduit and the coarse matter is retained in said chamber.

1,474,922. FEED BAG FOR HORSES. JOHN ZOZIEBLO, Irvington, N. J. Filed Mar. 15, 1923. Serial No. 625,317. 4 Claims. (Cl. 119—65.)



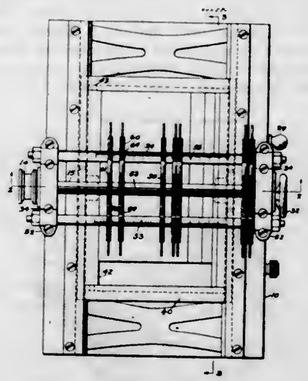
3. A feed bag for horses comprising a main body, a series of vertically spaced rigid rings secured to said body, and resilient elements acting to draw said rings toward one another, and other resilient elements surrounding said body between said rings and acting to contract the body circumferentially.

1,474,923. SHEET-METAL ARTICLE. ALEXANDER ALLOWAY, Erie, Pa., assignor to Erie Art Metal Company, Millcreek Township, Erie County, Pa., a Corporation of Pennsylvania. Filed Feb. 7, 1920. Serial No. 357,002. 14 Claims. (Cl. 220—80.)



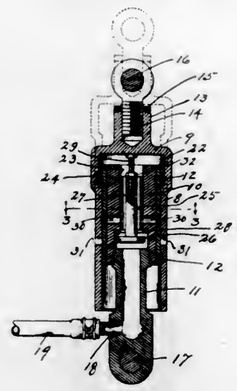
1. An article of manufacture having a corner formed of sheet metal; and a corner rib having its edges secured to the sides of the corner and extending outwardly from the corner and having folds extending outwardly over the portion secured to the sides.

1,474,924. RULE-FORM MACHINE. ERIK APPELQUIST, Worcester, Mass., assignor to Rule Form Machine Company, a Corporation of Massachusetts. Filed Oct. 28, 1921. Serial No. 511,215. 16 Claims. (Cl. 90—16.)



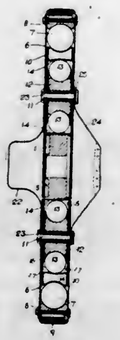
1. In a machine for grooving line type or lines of type, the combination of a table for supporting said type, ways on which said table is movable, an arbor located over the table, a set of milling cutters on the arbor, said arbor having a key extending longitudinally thereof and engaging said milling cutters, means for moving the table longitudinally under the arbor, and a series of cutter carriages engaging said cutters respectively for adjusting them lengthwise of said arbor.

1,474,925. PNEUMATIC BELL RINGER. ALONZO E. BILLGER, Indianapolis, Ind. Filed Jan. 31, 1921. Serial No. 441,208. 8 Claims. (Cl. 121—2.)



1. The combination with a bell oscillatively mounted and having an arm to swing it by, of a relatively fixed pivot, and means connecting the pivot and arm, comprising a cylinder closed at one end, a plunger reciprocating therein, means for supplying an expansive agent between the plunger and closed end of the cylinder, means comprising a valve in the plunger for cutting off the expansive agent before the bell has reached the end of its arc of vibration, means for releasing said agent to atmosphere at the end of said arc, and means to predetermine the degrees of said arc.

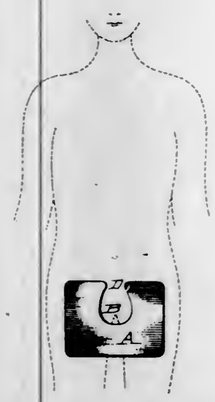
1,474,926. RESILIENT WHEEL. ISAAC WILLIAM BURNS-LINDOW, Selkirk, Scotland. Filed Nov. 14, 1922. Serial No. 600,953. 3 Claims. (Cl. 152—28.)



1. A resilient wheel of the kind described comprising a hub, a pair of spaced annular members extending there-

from, a plurality of casings fixed to and between said members, annular rubber buffers enclosed in said casings, an annular rim connecting the peripheries of said members, a rubber ring surrounding said rim, an outer rigid tire-carrying felloe surrounding said ring and elements for centrally supporting said buffers, said elements being movable in apertures in said members and being fixed to said felloe.

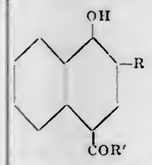
1,474,927. SURGICAL SUPPORT. ALBERT B. CAWTHRA, Worcester, Pa. Filed Sept. 11, 1922. Serial No. 587,372. 5 Claims. (Cl. 128—158.)



1. A support of the character described for sustaining the genital organs of a male human being, consisting of a board having a notch in one side thereof to accommodate said organs.

1,474,928. CARBONYL DERIVATIVES OF ALPHA NAPHTHOL AND PROCESS OF MAKING SAME. GUILLAUME DE MONTMOLLIN and JOSEF SPIELER, Basel, Switzerland, assignors to Society of Chemical Industry of Basle, Basel, Switzerland. Filed May 18, 1922. Serial No. 561,920. 2 Claims. (Cl. 260—104.)

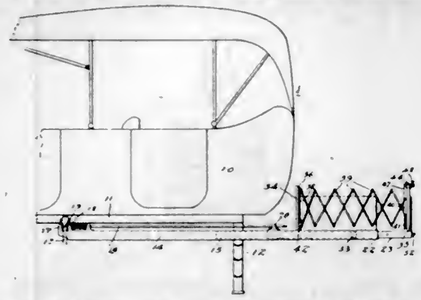
1. The herein described process for the manufacture of carbonyl derivatives of alpha naphthol corresponding to the general formula



wherein R stands for an atom of hydrogen or a COO-alkyl radical and R' for an O-alkyl radical, consisting in reacting with a tetrahalogen derivative of methane on alphanaphthol in presence of substances capable of neutralizing acids and of an alcohol which contains not more than two atoms of carbon and isolating the carbonyl derivatives thus formed from the mass of reaction.

1,474,929. ATTACHABLE BED AND CARRIER FOR VEHICLES. JOSEPH A. FAGAN, Augusta, Ky., assignor of one-third to Walter Smith, Augusta, Ky. Filed Aug. 24, 1922. Serial No. 584,161. 3 Claims. (Cl. 224—29.)

2. A combined bed and load carrier comprising a frame attachable to a vehicle, an extensible outer part, and lazy-tong elements extensible therewith, and including end members transverse to the tong elements respectively



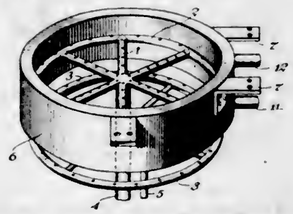
and slidable mounting for the end members on respective end parts of the combined device, whereby the tong elements may be removed.

1,474,930. MOP. WILLIAM H. GLENN, Quincy, Ill. Filed Oct. 7, 1922. Serial No. 593,054. 2 Claims. (Cl. 15—247.)



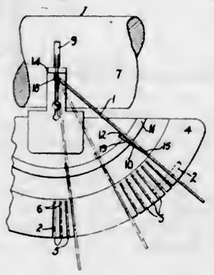
1. A mop attachment for brooms comprising a casing open at each end and adapted to be inserted over a broom, an extension secured to the lower edge of a portion of said casing, said extension being adapted to pass under the broom and extend over the opposite side of the casing, ribbons secured to the upper edge of the casing, and adapted to be tied around the broom handle, means for fastening the free end of said extension to the opposite side of the casing, and mop elements arranged on one side of said casing and on said extension.

1,474,931. GAS WATER HEATER. ISAAC GORDON, Schenectady, N. Y. Filed Aug. 21, 1922. Serial No. 583,429. 3 Claims. (Cl. 126—54.)



3. A heating system, including an annular water heater adapted to support a cooking vessel, the inner and outer walls of the heater being substantially vertical, an annular gas burner arranged wholly within the annular water heater and adapted to project the flame against the inner wall of the water heater, a second annular gas burner arranged substantially directly beneath the annular bottom wall of the water heater, separate means for controlling the two burners, a water tank, a pipe leading from the lower portion of the tank to the lower portion of the water heater, and a pipe leading from the upper portion of the water heater to the upper portion of the tank.

1,474,932. TYPEWRITING MACHINE. WILLIAM F. HELMOND, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 8, 1922. Serial No. 541,908. 9 Claims. (Cl. 197—35.)



5. The combination with a platen, of a type-bar to swing against the platen, said type-bar having an elbow or bend near its type end whereby the type stands at one side of the body of the bar, and arresting means to engage the bar between its ends and at one side only of the body of the type-bar, when the type reaches the proximity of the platen, to control the twisting tendency of the type-bar, so as to cause the type on the bent end of the type-bar to strike the platen properly.

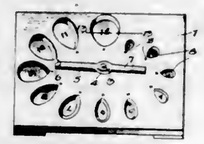
1,474,933. WATER-SOLUBLE SULPHONIC ACIDS FROM PETROLEUM OILS AND METHOD OF PRODUCING THE SAME. ROBERT E. HUMPHREYS, FRANCIS M. ROGERS, and OSCAR E. BRANSKY, Whiting, Ind., assignors to Standard Oil Company (of Indiana), Chicago, Ill., a Corporation of Indiana. Filed Oct. 25, 1918. Serial No. 259,689. 5 Claims. (Cl. 87—6.)

1. A mixture of sulphonic acids from the sludge from fuming acid treatment of petroleum oils which is freely soluble in water in the presence of oil, only partially soluble in ether and freely soluble in amyl alcohol and has a combining weight of approximately 360.

2. The method of preparing sulphonic acids, which consists in treating petroleum oil with strong sulphuric acid, drawing off the resultant acid sludge, washing the sludge with hydrocarbon oil, diluting the same with water, heating, settling and drawing off the sulphuric acid layer, thereby separating out the sulphonic acids, and purifying the latter.

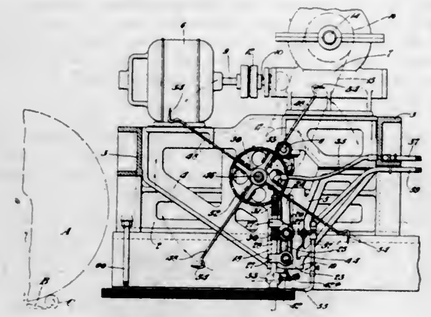
1,474,934. GAME. NELS JACOB JACOBSON, Phillips, Wis. Filed Aug. 14, 1922. Serial No. 581,736. 1 Claim. (Cl. 46—56.)

A device of the character described comprising a base having a substantially flat upper face, and a longitudinal indicator member pivotally supported upon the base for rotation about a vertical axis, said base having produced thereon a plurality of spaced openings or indentations arranged in a circle about the axis of the indicator member and in position to cooperate with the latter and having also a cavity or pocket in the upper face thereof in adjacent relation to each of said first named openings or indentations and at a greater distance from the axis of the indicator member than the openings with which associated, said cavities or pockets increasing



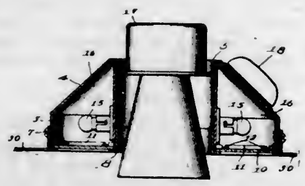
uniformly in size in sequence from a certain cavity or pocket, and having associated therewith a series of characters varying directly in value with the size of the cavity.

1,474,935. COLD-ROLL-FEEDING MECHANISM. GEORGE COOK KIMBALL and HOWARD G. MCILVRIED, Pittsburgh, Pa., assignors to American Sheet and Tin Plate Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed June 24, 1922. Serial No. 570,734. 14 Claims. (Cl. 80—43.)



1. In an automatic plate feeder, a lifting arm having means for adhesively engaging and holding a plate, means for lifting said arm and plate, and rotary feeding arms for engaging said plate and moving it in a direction transversely of said lifting movement.

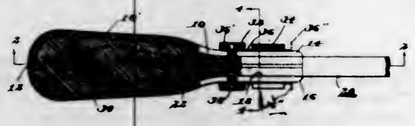
1,474,936. DIRECTIONAL SIGNAL. WILLIAM BRADFORD LAWRENCE, Suffolk, Va. Filed Mar. 8, 1920. Serial No. 364,121. 1 Claim. (Cl. 177—329.)



A direction signal of the character described comprising a casing having a circular opening centrally formed therethrough and including a cylindrical front part, a frusto-conical rear part having its diverging walls terminating with the inner end wall of the circular opening, a cover for the casing and being provided with arc shaped openngs and a central circular opening

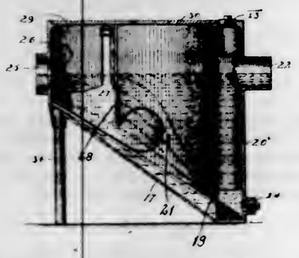
adapted to register with the opening in the casing, an outer flange formed on the cover and being secured to the outer wall of the cylindrical part, an inner flange formed on the cover and being secured to the walls of the opening in the casing, transparent plates secured in the respective arc shaped openings and carrying the legends stop, back, right and left, respectively, means for illuminating the plates, partitions arranged in the casing for separating the illuminating means and a sounding signal arranged through the opening in the casing to be sounded previous to illuminating any of the plates.

1,474,937. TOOL HANDLE. GEORGE LEWIS, South Boston, Mass. Filed June 6, 1921. Serial No. 475,196. 16 Claims. (Cl. 145—61.)



1. A tool holder comprising a bar in loop-handle form with its ends together in near parallelism and adapted to receive and encase the shank of a tool, combined with a ferrule embracing said ends; there being resilient means between the ferrule and one of said ends, whereby the latter is yieldingly pressed against the said shank.

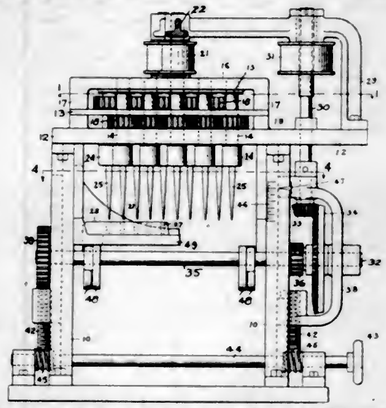
1,474,938. GREASE INTERCEPTOR. SAMUEL L. MARSH, Los Angeles, Calif. Filed Aug. 19, 1919, Serial No. 318,516. Renewed Mar. 2, 1922. Serial No. 540,616. 8 Claims. (Cl. 210—56.)



1. A separator for grease from waste waters having a basin provided with an inlet and an outlet, the entrance end of said outlet being close to the bottom of said basin and below the discharge end of the outlet and channelled means provided on one boundary thereof for converging sediment to the outlet and controlling its passage thereto.

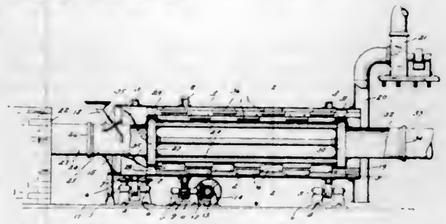
1,474,939. DIE-REAMING MACHINE. ALBERT NELSON, Worcester, Mass.; Evelyn J. Nelson, administratrix of said Albert Nelson, deceased, assignor to Evelyn J. Nelson, Worcester, Mass. Filed June 3, 1920, Serial No. 386,290. Renewed Oct. 12, 1923. 7 Claims. (Cl. 77—22.)

1. In a machine for simultaneously reaming out the several dies in a wire-drawing die block to the same size, the combination with a frame and a series of identical tools arranged in alignment across said frame all set at the same elevation, and means for simultaneously rotating said tools, of a work holder located across the frame, the frame having a guide for the holder, and separate means for moving each side of the holder toward the



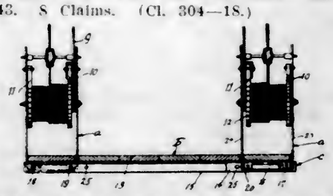
reamers at the same rate to provide a parallel motion so that the tools will all form their respective holes to the same size.

1,474,940. DRIER. PHILIP R. PERKINS, Columbus, Ohio. Filed June 24, 1921. Serial No. 480,196. 2 Claims. (Cl. 34—5.)



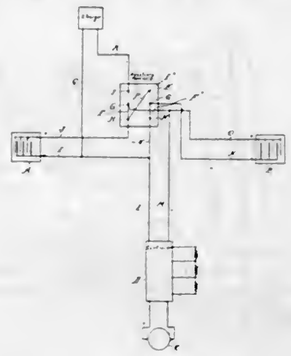
1. In a drier, a rotatably mounted shell, a source of heat supply, a delivery tube extending from said source of heat supply and situated to enter one end of said shell in a longitudinal direction, an exhaust tube leading out of the other end of said shell, said tubes including stationary sections situated exteriorly of said shell and rotatable sections situated to enter said shell, relatively spaced longitudinally extending heat flues mounted to rotate in unison with said shell and having the opposite ends thereof connected with the inner ends of the rotatable sections of said tubes, a plurality of lifting blades fixed in staggered relation upon the interior wall of the shell and directed to and spaced from the flues, and means for exhausting vapors from said shell.

1,474,941. SUSPENDED SCAFFOLD. EUGENE PITOU, New York, N. Y. Filed Nov. 17, 1920. Serial No. 424,743. 8 Claims. (Cl. 304—18.)



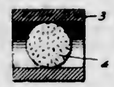
1. A scaffold comprising a put-log having side members arranged in parallel spaced relation, spacing blocks interposed between the side members and connected to the opposite end portions thereof, and supporting frames fitted loosely about the spacing blocks.

1,474,942. ELECTRIC-VEHICLE CONTROL. KARL PROBST, Toledo, Ohio. Filed Feb. 13, 1922. Serial No. 535,988. 6 Claims. (Cl. 172—291.)



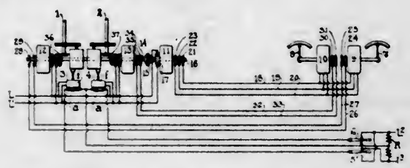
1. In an electrically driven vehicle, the combination with a motor and a storage battery comprising two equal sections, of a controller for varying the speed of the motor without change in battery voltage, a charger connection for the battery, and a switch for alternatively coupling said battery sections in parallel and in series and for effecting in the latter position a coupling with said charger.

1,474,943. METHOD OF MAKING GAME BALLS. EDWARD F. QUINN, Chicopee, Mass. Filed Aug. 29, 1921. Serial No. 496,220. 6 Claims. (Cl. 154—16.)



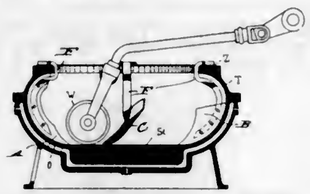
5. In the art of making game balls, the method which consists in inserting a spherical core of cork within a plastic tube, slitting the ends of the tube, then closing the ends of the tube by compressing or flowing the plastic material around the cork insert and thereafter curing or vulcanizing the thus assembled article.

1,474,944. DISTANT INDICATING MEANS. FREDERICK L. RE QUA, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed June 30, 1919. Serial No. 307,747. 5 Claims. (Cl. 172—293.)



1. The combination with mechanically independent elements, of means for causing proportional movement of certain of said elements upon movement of other of said elements, said means including a double fed alternating current motor and means for supplying to the stator and rotor of said motor independent alternating currents of like frequency subject to relative phase displacement proportional to the degree of movement of said latter mentioned of said elements.

1,474,945. DEVICE FOR TREATING CHOCOLATE MASSES OR OTHER MATERIALS. FRIEDRICH FRANZ WILHELM SCHILDENER, Zschieren, near Dresden, Germany. Filed Aug. 8, 1921. Serial No. 490,767. 5 Claims. (Cl. 83—45.)



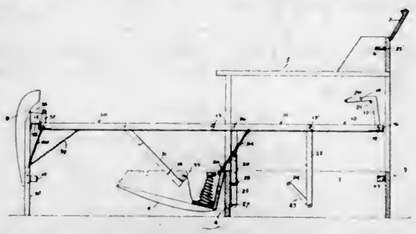
1. In a device for treating chocolate masses and the like, a container adapted to receive the mass, a reciprocating member mounted for travel in a rectilinear direction for agitating the mass, and means arranged within the container and movable relatively thereto for travel in a circular path to direct the mass centrally from the wall of the container into the path of the reciprocating member.

1,474,946. BRAKE-BEAM FULCRUM. ARTHUR SPARROW, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Oct. 27, 1921. Serial No. 510,894. 8 Claims. (Cl. 188—232.)



5. In a brake beam, the combination of a compression member, a fulcrum post having a flange adapted to engage the compression member and also having a projection extending beyond said compression member, and a wedge cooperating with said extending portion and said compression member for holding said flange in engagement with said compression member for holding said fulcrum post in position.

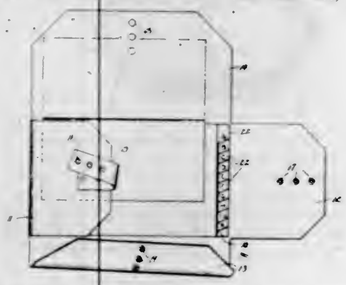
1,474,947. DAVENPORT. THOMAS C. STARR, San Francisco, Calif., assignor, by mesne assignments, of one-half to J. Paul Hartman, San Francisco, Calif. Filed Jan. 23, 1922. Serial No. 531,115. 3 Claims. (Cl. 5—31.)



1. A davenport embodying in its construction a davenport frame, a sectional collapsible bed frame comprising a front section, an intermediate section and a rear section all pivotally connected with one another, a link pivotally connected with the davenport frame at a point above a position which the rear section will assume when the bed frame is extended and pivotally connected with the rear portion of the rear section, stanchions pivotally connected with the bed frame substantially at the point of connection of the rear and intermediate sections and depending therefrom, means for pivotally connecting the stanchions with the davenport frame, another stanchion pivoted at respective ends to the intermediate section and

davenport frame, a seat member hinged to the davenport frame, means of connection between the seat member and the front section, legs operatively connected with the front section, said front section being arranged so as to engage and support the seat when the bed frame is collapsed.

1,474,948. PORTABLE LETTER FILE. EDWARD M. STEPHENSON, Hartford, Conn. Filed May 22, 1922. Serial No. 562,714. 1 Claim. (Cl. 129—15.)



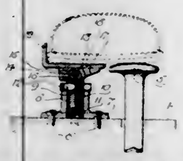
A portable letter-file, comprising a back, side flaps, bottom flap and top flap, a series of independent index leaves connected with the said back and opening sidewise, said index leaves arranged in sections connected by an extension strip, a tab applied to the lower part of the top section, whereby that section may be drawn to one side, and means for connecting the said flaps.

1,474,949. FLEXIBLE TUBING. AUGUST SUNDH, Hastings-on-Hudson, N. Y. Filed Dec. 20, 1919. Serial No. 346,295. 3 Claims. (Cl. 137—75.)



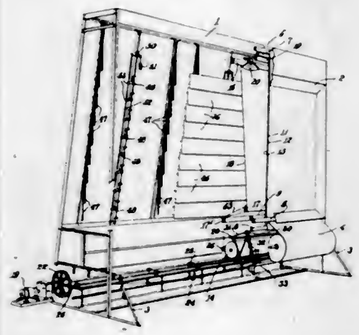
1. The method of making a flexible metallic tubing consisting in helically winding a corrugated metal strip to form a tube having inwardly and outwardly extending loops, winding a second corrugated metal strip about the first strip so as to bring the inwardly and outwardly extending loops of the one strip in register with the similar loops of the other strip to form a double walled tube, and permanently and rigidly uniting the face of the inner strip to the adjacent overlying face of the outer strip throughout their entirety.

1,474,950. FOOT REST. GEORGE R. THOLE, Chicago, Ill. Filed May 19, 1922. Serial No. 562,048. 2 Claims. (Cl. 74—81.)



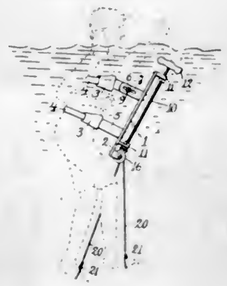
1. In a foot-rest for use with an accelerator pedal, the combination of a transverse support to fit under one side of the ball of the foot of an operator and terminating adjacent the transverse center of the foot to leave the other side of the foot free to directly engage a pedal transversely adjacent to the other side of the support, a fixed stop on said support for the side of the foot remote from the pedal, and means to pivotally sustain said support medially and to swing transversely so that it will rock responsively to the transverse rocking of the foot in shifting the pedal, the support being free to swing transversely independently of the pedal.

1,474,951. CINEMATOGRAPHIC TARGET. HENRY B. THOMPSON, New York, N. Y., assignor to Lydia B. Koch, New York, N. Y. Filed June 7, 1919. Serial No. 302,444. 11 Claims. (Cl. 124—15.)



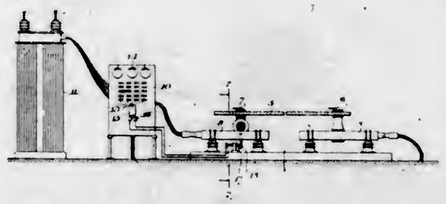
1. A cinematographic target embodying therein a roll of continuous web passed in a plurality of substantially parallel reaches across the sight opening of a target, means imparting lineal traverse to said web, a movable back plate adapted to receive the force of the impact of a bullet after it passes through the reaches of said web, a relay, electrical contacts included in circuit with said relay and adapted to be actuated by said movable back plate, electrically actuated means, adapted to be operatively connected with the projector, included in a secondary circuit having therein contacts controlled by said relay including an electric make and break mechanism, and a timing device arranged in said secondary circuit, and also in circuit with said relay, whereby the actuation of said contacts by said back plate will actuate said relay to cause the mechanisms in said secondary circuit to convert a moving image to a still image, substantially simultaneously with the impact of a bullet with the screen, and to restart the projector independently of the contacts actuated by said plate.

1,474,952. PERSONAL PROPELLING DEVICE. CALVIN H. ALLEN, Mattapan, and ALEXANDER C. HENDERSON, Brookline, Mass. Filed May 31, 1922. Serial No. 564,863. 1 Claim. (Cl. 9—18.)



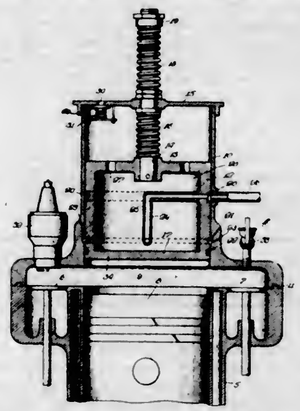
A personal propelling device comprising a screw propeller, a frame rotatably supporting the same, means for attaching said frame to the front portion of the body of the user, said means embracing two devices one of which is longitudinally adjustable toward and from the body for the purpose of varying the axial angle of said propeller, and means operated by movements of the user's feet for rotating said propeller.

1,474,953. METHOD FOR TREATING METAL. ROSS EDWARD BRADLEY and CHARLES RAYMOND WEBBER, Baltimore, Md., assignors to Baltimore Tube Company, Inc., Baltimore, Md., a Corporation of Virginia. Filed June 17, 1922. Serial No. 568,924. 7 Claims. (Cl. 148—10.)



1. The method of treating tubes composed of copper or the alloys of copper, which consists in subjecting the same to an electric current, under relative conditions of voltage and amperage substantially as specified, and correlating the expansion of the metal treated, and the period of current flow, substantially as described.

1,474,954. INTERNAL-COMBUSTION OR GAS ENGINE. THOMAS E. BROWN, Chicago, Ill. Filed Aug. 13, 1920. Serial No. 403,234. 1 Claim. (Cl. 123—25.)

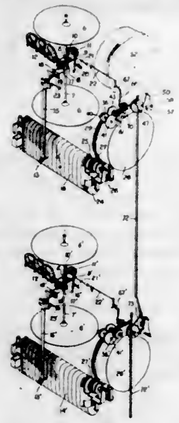


An internal combustion engine having a main cylinder and a supplementary cylinder of substantially the same diameter and arranged in axial alignment; a laterally extending combustion chamber between the two cylinders; valves closing ports in the walls of the lateral part of the casing surrounding the combustion chamber; a working piston in the main cylinder; a floating piston in the supplementary cylinder; a piston rod connected to the floating piston and passing thru the head of said cylinder; a compression spring about the rod, on each side of said head to resist movement of said floating piston in either direction; means to adjust the tension of said springs and a valve to admit water into said combustion space after the floating piston has been moved by the force of the explosion approximately the limit of its outer movement.

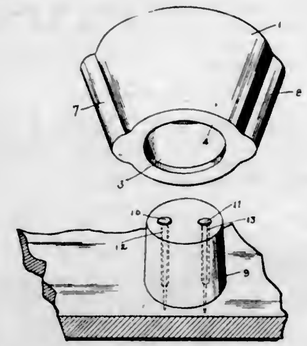
1,474,955. ELECTRIC RECORDING METER. HAROLD WAIT CARPENTER, Norwich, Conn. Filed Nov. 4, 1922. Serial No. 598,964. 11 Claims. (Cl. 234—5.5.)

2. In combination a plurality of electric meters adapted to record load characteristics on movable charts, a chart for each meter, a separate motor to move each chart, and a clock to govern the operation of all the motors.

11. The combination with two electric recording meters each including a movable chart, a motor to advance the chart, a rotatable member driven by the motor to control the operation thereof, and a dog normally to engage said member to prevent rotation thereof, of a clock to release the dog of the first meter, a cam wheel rotated by the motor of the first meter when operating to advance the chart, a pivoted lever riding in engagement with the periphery of said wheel and moved by irregularities on the surface thereof, a second lever moved by operation of the first lever to release the second meter dog from its rotatable member, a pin carried by said second rotatable member, and a fin on said second lever brought into the path of movement of said pin by dog releasing movement of said lever, said pin being adapted to strike said fin to restore said second lever to normal position.

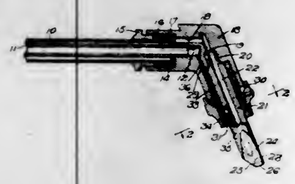


1,474,956. CONCRETE INSERT. ERNEST DELLA, Rochester, N. Y. Filed Mar. 20, 1922. Serial No. 545,112. 7 Claims. (Cl. 72—105.)



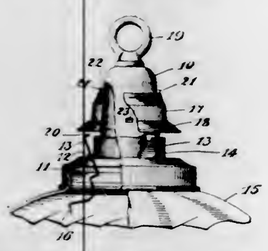
1. In a concrete insert, the combination of a shell having a large opening in the bottom thereof, a flange surrounding the large opening in the bottom of said shell, a channel or pocket formed in the wall on the inside of said shell, a follower or anchor plate adapted to be inserted into the bottom of said shell, said follower or anchor plate having a slot provided in the periphery thereof to allow a portion of said plate to be inserted into the opening in the bottom of said shell and be moved slightly endways into said channel or pocket to permit the insertion of the remainder of said follower or anchor plate, into said shell above said flange.

1,474,957. CUTTING TORCH. PARMER DORSEY, Wichita, Kans., assignor to Imperial Brass Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 16, 1922. Serial No. 594,777. 3 Claims. (Cl. 158—27.4.)



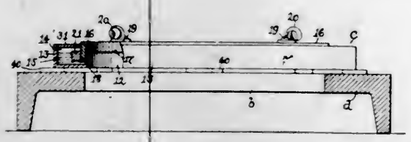
1. A nozzle for cutting torches having its working end flattened substantially at right angles to its axis and a flattened side thereof diverging at an angle of less than forty-five degrees from the axis with the aperture for the cutting flame opening out of said flattened end and with the aperture at which the heating flame mixture burns opening in said flattened side, for the purpose described.

1,474,958. LIGHTING FIXTURE. PAUL CONLON EGAN, Mount Vernon, N. Y. Filed Feb. 26, 1923. Serial No. 621,161. 3 Claims. (Cl. 240—133.)



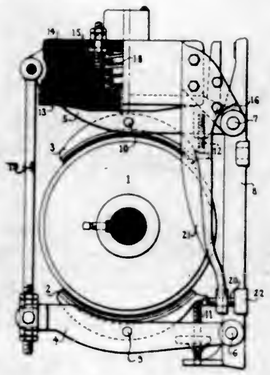
1. A device of the character described, comprising a socket cover provided with a plurality of spaced slots, globe supporting legs hung in said slots, and a clamping ring acting upon the upper ends of said legs to swing their lower ends outwardly.

1,474,959. TWISTING RING. EDWARD B. FEASTER, Lowell, Mass., assignor to Saco-Lowell Shops, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 30, 1923. Serial No. 615,940. 8 Claims. (Cl. 118—56.)



1. In a ring of the character described, in combination, a hollow base member open at its top, a traveler ring forming a cover member for a portion of said open top and provided with a guide for the yarn by which the traveler ring is revolved, and overlaping cooperating members for guiding and supporting said traveler ring within said hollow base, one of said overlapping members being stationary and connected with said base and the other being connected with said traveler ring to move therewith in sliding engagement with the said stationary member.

1,474,960. ELECTROMAGNETIC BRAKE. BERNHARD E. FERNOW, Jr., Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed July 2, 1921. Serial No. 482,071. 9 Claims. (Cl. 188—171.)



1. The combination with a brake drum and opposed brake shoes therefor of an electromagnet having field and armature members, said members being movable independently of each other and upon brake release tending to move towards said drum under the influence of gravity and means associated with one of said members to limit movement thereof towards said drum, said means being adjustable to provide substantially equal movements of said brake shoes by said electromagnet.

1,474,961. GAME. CHARLES A. FOSTER, Baltimore, Md., assignor of one-half to Norman Strippy, Baltimore, Md. Filed Sept. 26, 1921. Serial No. 503,122. 1 Claim. (Cl. 46—56.)



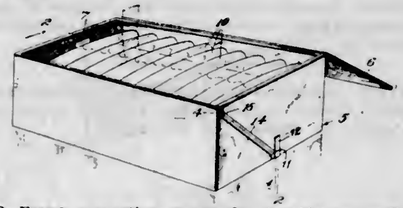
A game comprising a box having hexagon sides, a pivot secured to the inner surface of the bottom of said box, a disk having a number of spaces on its upper surface provided with figures or letters and a hole in each space near the outer edge of said disk, a ball resting on the upper surface of the disk and adapted to fit into any of the holes in said disk, and a finger piece secured to the upper surface of the said disk and having an aperture in its lower surface into which the said pivot projects, said aperture in the finger piece being considerably larger than the said pivot to permit the said disk to tilt when revolving.

1,474,962. PLEASURE RAILWAY. JAMES O. GREENBERG, New York, N. Y. Filed Jan. 12, 1922. Serial No. 528,677. 2 Claims. (Cl. 104—23.)



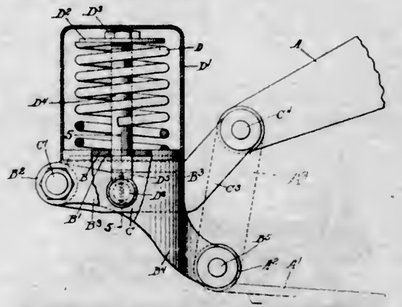
1. A pleasure railway comprising, a suspended track, a carriage movably mounted on the track, a car rigidly suspended from the carriage, the track being arranged at various points to cause the car to swing laterally.

1,474,963. FRAUD-PREVENTION MEANS FOR CIGAR BOXES. LEON GREENSTEIN, New York, N. Y. Filed Dec. 14, 1921. Serial No. 522,218. 6 Claims. (Cl. 131—11.)



6. Fraud prevention means for taxable commodities adapted to be packed in a container comprising, in combination with a container having a slot in one of its walls, a ductile metal strip surrounding one of the articles and confining the same within the container, said strip being extended through said slot exteriorly of the container and having its extremities fixed to the container walls, and a tax stamp denoting the number of articles in the container upon which the tax has been paid, the said stamp being adhesively secured to the container walls and having a part overlying said metal strip whereby, in order to remove the article from the container, the destruction of the tax stamp and the prevention of its re-use is assured.

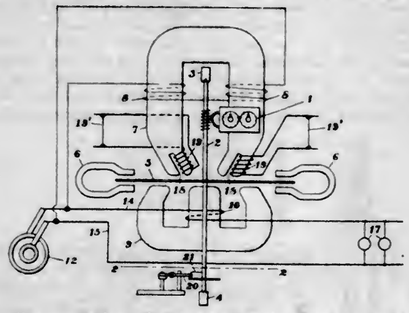
1,474,964. SHOCK ABSORBER. LEWIS P. HALLADAY, Decatur, Ill. Filed Dec. 11, 1920. Serial No. 429,850. 5 Claims. (Cl. 267—17.)



1. A shock absorber comprising a floating spring platform, a pivot connection between it and one of the spring elements of a vehicle, an auxiliary spring resting upon the platform, and a lever pivoted on the spring platform having its free end in pivotal connection with the end of one opposed vehicle spring element, and a plunger rod passing through the platform and pivoted at an intermediate point on the lever and supported at its upper end by the auxiliary spring.

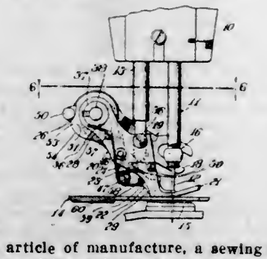
1,474,965. ELECTRICITY-METERING SYSTEM. JESSE HARRIS, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a Corporation of Illinois. Filed Jan. 26, 1920. Serial No. 354,277. 1 Claim. (Cl. 171—34.)

The combination with a source of alternating current; of a load circuit supplied thereby; an integrating watt meter including an electric motor element having a closed conductor armature and current and pressure windings in inductive relation to the armature and respectively subject to the current and pressure of the system to furnish torque upon the meter in a forward or counting direction, the pressure winding having a magnet core presenting a polar portion to the meter armature; a closed conductor upon said polar portion co-operating with the aforesaid pressure winding and the meter armature to furnish substantially constant torque operating upon the meter armature in opposition to the forward torque to prevent the counting operation of the meter when the load is below a predetermined value and permitting the



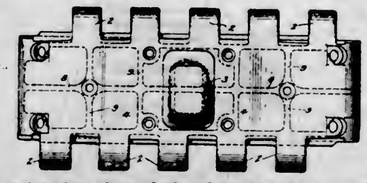
counting operation of the meter when the load exceeds said predetermined value; and means for preventing reverse operation of the counting mechanism.

1,474,966. SEWING-MACHINE FEED MECHANISM. THOMAS J. HAYES, East St. Louis, Ill., assignor to Lewis Felting Machine Company, St. Louis, Mo., a Corporation of Delaware. Filed May 31, 1921. Serial No. 474,031. 14 Claims. (Cl. 112—212.)



1. As an article of manufacture, a sewing machine attachment comprising a frame having a presser foot portion and substitutable for a standard presser foot, a four-way movable feed-dog mounted in the presser foot portion, means for imparting four-way motion to said feed-dog wholly carried by said frame, said means including an actuator constructed and arranged for connection with a needle bar to be vibrated therefrom.

1,474,967. TRACTION SHOE. FERDINAND H. HEINE, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis. Filed Dec. 19, 1921. Serial No. 523,515. 10 Claims. (Cl. 305—10.)

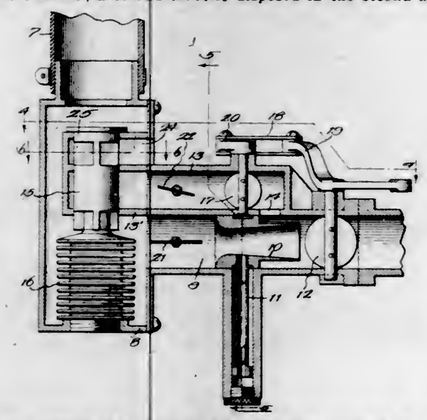


3. A traction shoe of the class described, comprising a hollow body, a separate cover plate attached to and covering the hollow portion of said body, together with driving means for the body, and webs within the body reinforcing the same and reinforcing the cover plate against inward displacement.

1,474,968. CARBURETOR. ROY O. HENSZEY, Oconomowoc, Wis. Filed Sept. 25, 1922. Serial No. 590,297. 24 Claims. (Cl. 123—122.)

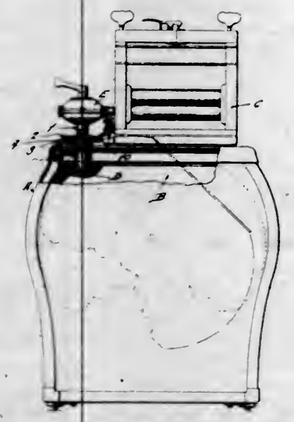
1. The combination with an internal combustion engine having intake and exhaust conduits; of a conduit for air

that is to be carbureted and placed in proximity to the exhaust conduit to be heated thereby; a chamber in communication with the air conduit to receive heated air therefrom; a carburetor having one inlet air passage in communication with said chamber and a liquid fuel inlet discharging into this passage; a throttle in said air inlet passage, the carburetor having a second air inlet passage that is in communication with the chamber and with the first air inlet passage between the liquid fuel inlet and the throttle; a second throttle disposed in the second air



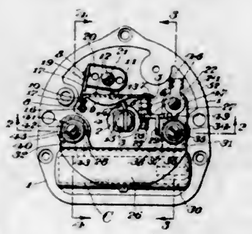
inlet passage and coupled with the first throttle to be operable in unison therewith; a valve controlling the communication between the second air inlet passage and said chamber; a thermostat in said chamber and operating, when responding to the heat within the chamber, to open said valve; and coupled air valves in the admission ends of said air inlet passages to control the amount of air flowing therethrough, and relatively disposed to enable the first air inlet passage to be slightly opened by its air valve while the second air inlet passage is substantially closed by its air valve.

1,474,969. ADJUSTABLE SUPPORT FOR CLOTHES WRINGERS. WARD S. IRELAND, St. Louis, Mo., assignor, by mesne assignments, to The Davis Sewing Machine Company, a Corporation of Delaware. Filed Oct. 16, 1919. Serial No. 331,203. 2 Claims. (Cl. 68—32.)



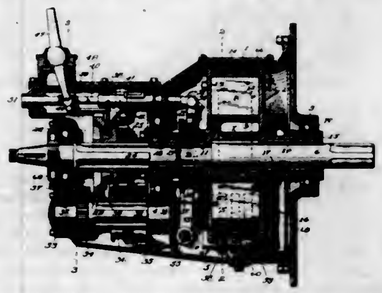
1. In combination with a support, a swinging wringer support formed with a turn-plate and an abutment depending from said wringer support to a point below the plane of said turn-plate and adjacent the periphery thereof, of a stationary table secured to said first named support on which said turn-plate is pivotally supported, said stationary table having an arcuate extension providing oppositely disposed stops intersecting the path of said abutment to limit the swinging movement of said wringer support.

1,474,970. IGNITION APPARATUS. ARTHUR ATWATER KENT, Ardmore, Pa. Filed Dec. 20, 1920. Serial No. 431,964. 19 Claims. (Cl. 200—30.)



6. Ignition timer arm structure comprising a lever arm, an interrupter contact carried at one end thereof, an abutment on said lever arm at the other end thereof, a cam follower secured to said arm between said contact and said abutment, and a leaf spring secured to said abutment for supporting and allowing movement of said lever arm.

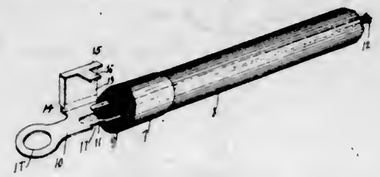
1,474,971. TRANSMISSION. EMIL M. KRAMER, Morton, Ill., assignor to Power Transmitting Company, organized under declaration of trust, Peoria, Ill. Substitute for abandoned application Serial No. 139,040, filed Dec. 26, 1916. This application filed Apr. 8, 1919. Serial No. 290,106. 2 Claims. (Cl. 192—58.)



1. In a transmission the combination of a housing, a baffle in the lower portion thereof, a case revolubly mounted in said housing above said baffle, a fluid moving element within said case, an inlet passage in said case, an outlet passage from said case, a valve for controlling said outlet passage, and a suction element extending from the inlet passage of said case to a point below said baffle.

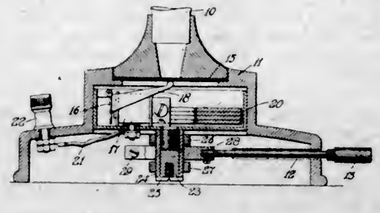
1,474,972. TERMINAL FOR ELECTRIC CONDUCTORS. JOHN A. KULIER, Brooklyn, N. Y. Filed Nov. 17, 1920. Serial No. 424,602. 5 Claims. (Cl. 173—269.)

1. A terminal for electric conductors comprising a body adapted to engage about the insulated end portion of a conductor and having an end portion extending from the body substantially axially of the conductor, said end portion having a keeper to receive the extremity of the wire, means associated with said end portion and extending entirely across and in direct contact with the top of the keeper and adapted to move in substantial parallelism with the end portion and toward said end portion for compressing the keeper upon the wire ex-



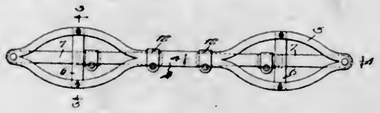
tremity, said means having engagement with said end portion at one side, and means to secure said means to the opposite side of said end portion.

1,474,973. AMPLIFYING RECEIVER. HENRY G. LEACH and JOSEPH S. LEACH, Brooklyn, N. Y. Filed Apr. 26, 1922. Serial No. 556,645. 4 Claims. (Cl. 179—108.)



1. An electrical amplifying receiver, comprising a hollow base member with opening therein, a diaphragm mounted in the base, a container reciprocable in said base, electro-magnetic means mounted therein to actuate said diaphragm and including a tensioned lever contacting therewith, a stud extending from said container, an externally threaded sleeve mounted about said stud, a cap holding same thereto and between itself and the container, a forked member embracing the sleeve to rotate same, and threaded means engaging the sleeve and secured to the base.

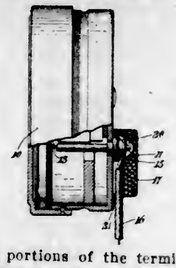
1,474,974. BUMPER. CLYDE G. LONGNECKER, Chicago, Ill. Filed Nov. 20, 1922. Serial No. 602,171. 11 Claims. (Cl. 293—55.)



7. A bumper comprising a bar provided with loops at its ends, all lying in the same plane, a pair of mutually transverse flexed members frictionally connected to said bar across each of said loops and slidably engageable with each other, and brackets for connected said flexed members to a vehicle.

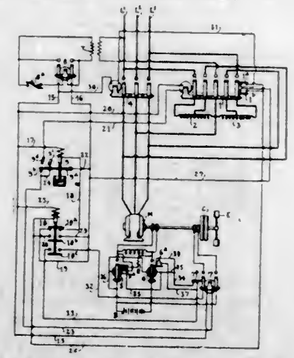
1,474,975. ELECTRICAL COUPLING. FRITZ P. MANSBENDEL, Brooklyn, N. Y., assignor to Ultra Earphone Co. Inc., New York, N. Y., a Corporation of New York. Original application filed June 13, 1917, Serial No. 174,481. Divided and this application filed Dec. 24, 1918. Serial No. 268,201. 1 Claim. (Cl. 173—259.)

The combination with an instrument casing having terminals in the form of a cone and located upon the exterior thereof; of an under-cut cap member adapted to receive and locate the looped ends of conductors fitted



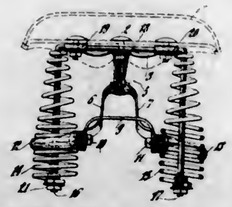
over said conical portions of the terminals, cover same and clamp said looped ends thereto, and means to removably attach said cap to the instrument casing.

1,474,976. SYSTEM OF CONTROL FOR SYNCHRONOUS MOTORS DRIVING THROUGH CLUTCHES. ROBERT I. MAUJER, Cincinnati, Ohio, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed July 8, 1922. Serial No. 573,664. 5 Claims. (Cl. 172—289.)



1. The combination with a synchronous motor, and a releasable driving connection therefor, of means for starting said motor and means for establishing said driving connection during starting of said motor and for temporarily releasing the same as the speed of said motor approaches synchronism to permit said motor to come into step.

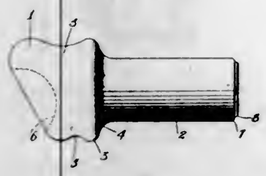
1,474,977. CUSHION SADDLE. HENRY MESINGER and FREDERICK MESINGER, New York, N. Y. Filed Sept. 23, 1921. Serial No. 502,719. 2 Claims. (Cl. 208—15.)



1. Cushioning means for vehicle saddles comprising in combination with the saddle proper, a support therefor including spaced parts, rods depending from the rear end of the saddle, a spring surrounding each of said rods and fixed thereto at its lower end, and means connected to each of the spaced parts of the support and surrounding the respective springs, and a threaded connection between said means and the spring convolutions

permitting of their relative axial adjustment whereby a selected number of the convolutions may be disposed above and below the frame connection to be subjected to compression and expansion respectively, under load.

1,474,978. RIVET SET. WALDEMAR MEYER, Woodhaven, N. Y. Filed Jan. 20, 1920. Serial No. 352,760. 6 Claims. (Cl. 78—46.)



1. In a rivet set, a shank, a body joining said shank and having a smooth continuously curved surface, and a rivet heading recess in said body.

1,474,979. BRUSH. JOHN MORRISON, Jr., Glens Falls, N. Y. Filed Apr. 14, 1922. Serial No. 552,628. 8 Claims. (Cl. 15—193.)



1. In a brush, the combination of a brush back made of molded material, bristle tufts carried by said brush back and each partially imbedded therein, and a handle made of wire and provided with a pair of end portions abutted together end to end and imbedded wiah said brush back.

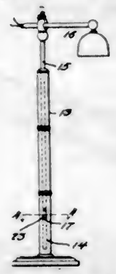
1,474,980. EXPANSION SHIELD. JOHN EDWARD OGDEN, Mountainville, Cornwall, N. Y. Filed Aug. 11, 1921. Serial No. 491,364. 7 Claims. (Cl. 85—2.4.)



1. In combination, a sectional sheet metal expansion shield having one end closed and having longitudinal, spaced ribs in each section of the shield, and a nut having portions disposed between said ribs.

1,474,981. ADJUSTABLE CONSTRUCTION. MORRIS OZLMK, Philadelphia, Pa. Filed Mar. 15, 1921. Serial No. 452,633. 4 Claims. (Cl. 248—8.)

1. A device of the character described including a hollow member; a post slidable within said member, said post having a hole extending therethrough; and a looped spring having a portion between its ends passed



loosely through said hole, said ends of the spring extending into passages within said post; substantially as described.

1,474,982. NONFREEZING FUEL. WALTER T. SCHREIBER, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Apr. 2, 1919. Serial No. 287,015. 6 Claims. (Cl. 44—9.)

1. A fuel that has a freezing point below —50° F.; and that comprises alcohol, gasoline, benzol, ether, and toluol, the proportion of benzol being approximately 15% of the mixture.

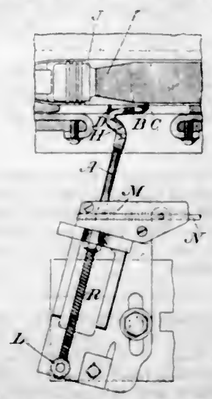
1,474,983. MOTOR FUEL. WALTER T. SCHREIBER, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed May 8, 1919. Serial No. 295,694. 8 Claims. (Cl. 44—9.)

1. A fuel comprising a petroleum distillate, an alcohol, benzol and a higher ketone.

1,474,984. PAINT AND VARNISH REMOVER. FRANK A. VAN NESS, Yonkers, N. Y., assignor of one-half to Loren G. Barnhart, Yonkers, N. Y. Filed Sept. 19, 1921. Serial No. 501,644. 7 Claims. (Cl. 87—5.)

1. A non-injurious paint and varnish remover comprising a mildly alkaline liquid consisting of an organic solvent for oils, resins and gums diluted with water and combined with sodium carbonate, ammonia and soap.

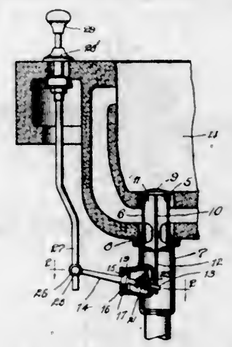
1,474,985. FEELER FOR LOOMS. CHARLES H. WARREN, Atlanta, Ga., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed July 18, 1921. Serial No. 485,595. 4 Claims. (Cl. 139—287.)



1. A side slipping feeler having teeth at its tip and rigid therewith, the teeth being in two groups spaced apart and projecting beyond the rear face of the feeler and

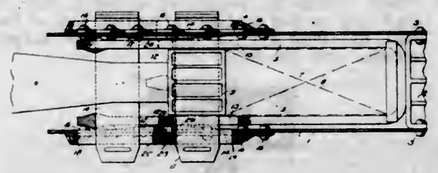
at different distances the groups at the outer heel end of the tip not extending as far rearwardly as does the group at the inner toe end of the feeler tip.

1,474,986. LAVATORY WASTE. EARL G. WATROUS, Chicago, Ill. Filed Dec. 27, 1921. Serial No. 525,071. 8 Claims. (Cl. 4—24.)



1. In a lavatory waste, the combination with a stopper having a downwardly projecting stem, of a lever coacting with said stem for raising and lowering the same, a conical spring fitting over said lever and adapted to hold it in raised or lowered positions and means for actuating the lever.

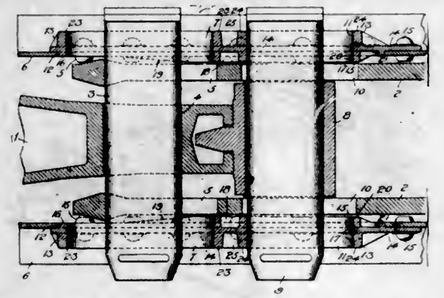
1,474,987. DRAFT RIGGING. ARTHUR H. WESTON, New York, N. Y., assignor to The T. H. Symington Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 30, 1921. Serial No. 465,727. 12 Claims. (Cl. 213—56.)



1. A cheek plate comprising a web having a plurality of aligned slots therein, flanges projecting laterally from the opposite faces of said web and defining the edges of said slots, and means projecting from said web for connecting the flanges on each face of the web at the adjacent ends of said slots.

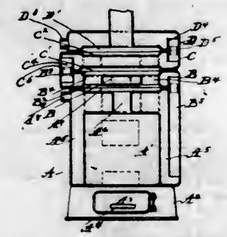
1,474,988. CHEEK PLATE. ARTHUR H. WESTON, New York, N. Y., assignor to The T. H. Symington Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 23, 1922. Serial No. 531,223. 2 Claims. (Cl. 213—56.)

1. A cheek-plate having a body web affording means for securing it to a center sill or draft sill of a car, and having a key receiving slot adapted to register with a slot in the web of said sill, and being provided on opposite



sides of said web with flanges bordering said slot, one of said flanges being adapted to project through and beyond the web of said sill to form a guiding surface.

1,474,989. HOT-WATER BOILER. JOSEPH H. WISSMAN, East Cleveland, Ohio. Filed Nov. 21, 1921. Serial No. 516,747. 2 Claims. (122—218.)



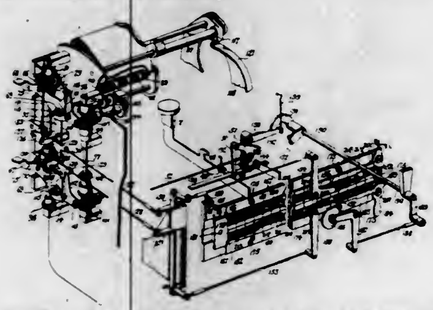
1. In a hot water boiler, superimposed sections, provided with circulating passages for the products of combustion and water, comprising a bottom section, a water chamber enclosing the sides and top wall thereof, and a multiple number of hollow sections superimposed thereon, the top section provided with a water inlet opening and with a central horizontal recess in its lower wall, and the next adjoining section provided with a complementary recess in its upper wall and with a corresponding recess in its lower wall, and the next adjoining section provided with similar recesses in its upper and lower walls, said recesses in said adjoining sections registering with each other and forming horizontally extending flue chambers, said chambers connected by vertical pipes, and exterior vertical pipes connecting the upper parts of said superimposed hollow sections with the lower parts of the next adjoining sections below.

1,474,990. COMBINED TYPEWRITING AND COMPUTING MACHINE. WALTER WRIGHT, New York, N. Y., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Sept. 30, 1911. Serial No. 652,153. 78 Claims. (Cl. 235—59.)

1. The combination with a plurality of stationary computing heads manually settable individually for adding, subtracting and remaining passive or neutral, and automatic means for controlling concomitantly all of said computing heads, so that some of said computing heads may perform one operation while others of said computing heads remain neutral or perform the opposite operation with the same set of figures.

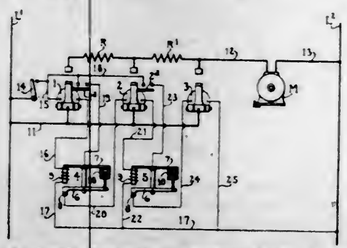
4. The combination with a stationary computing head having a rotatable traveling master wheel for controlling the operation of the same, of a tens-carrying mechanism

for said computing head, and an automatic control operating to reverse said master wheel and said tens-carrying mechanism concomitantly.



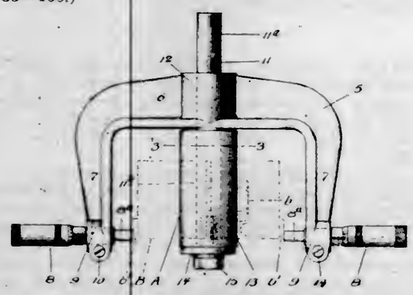
70 The combination with a plurality of totalizers, of a traveling carriage, individual state-controlling mechanisms extending from said totalizers to said carriage and controlled from said carriage, and a master control dominating said individual control mechanisms.

1,474,991. CIRCUIT CONTROLLER. CHARLES W. YERGER, Boston, Mass., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 9, 1921. Serial No. 460,114. 10 Claims (Cl. 172—289.)



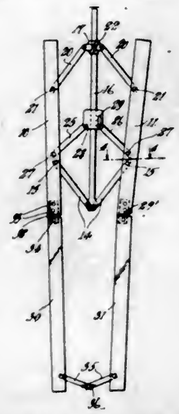
3. In a circuit controller, in combination, a plurality of electro-magnetic switches and an electro-responsive relay controlling one of said switches, said relay having its winding connected in series with the winding of another of said switches for energization therewith and the latter switch upon responding effecting reduction of the current supplied to said relay winding to effect release of said relay.

1,474,992. GAUGE. JOHN G. ZUBER, Chicago, Ill. Filed Oct. 4, 1922. Serial No. 592,191. 3 Claims. (Cl. 33—166.)



1. A gauge comprising a yokelike support, two similar aligned, oppositely disposed dimension measuring members secured in the arms of said support, and a cylindrical stud upon which a boring bar head may be rotatively mounted, said stud being located midway between said measuring members, and extending at right angles thereto, the axis of said stud intersecting the common axis of said measuring members.

1,474,993. CREASING DEVICE FOR TROUSERS. JAMES R. BALL and WILLIAM H. BALL, Chicago, Ill.; said William H. Ball assignor to said James R. Ball. Filed Mar. 18, 1922. Serial No. 544,917. 8 Claims. (Cl. 223—19.)



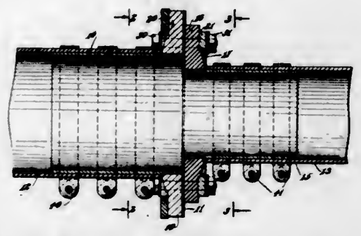
1. A trouser creasing device of the character described comprising a main frame having side bars operatively connected together; means for expanding said side bars to relatively spaced positions; means for rigidly holding said bars against angular displacement with respect to each other; an auxiliary frame having side bars movably connected to the side bars of said main frame; and means for adjusting the angular relation of the side bars of said auxiliary frame independently of the angular adjustment of the side bars of said main frame.

1,474,994. CLEANING DEVICE. WILLIAM H. A. BROWN, Chicago, Ill., assignor of one-half to Henry G. Clark and one-half to John H. Bentley, both of Chicago, Ill. Filed Apr. 16, 1921. Serial No. 461,987. 1 Claim. (Cl. 15—23.)



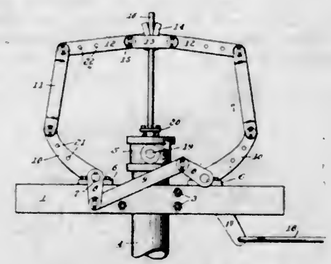
A window cleaning device comprising an operating handle; a motor casing mounted on one end of said handle; a tubular support on said casing; a motor shaft journaled through said support; a housing on said tubular support; a shaft journaled through said housing and operatively connected to said motor shaft; disc shaped supporting members loosely mounted on said shaft adjacent the end walls of said housing; cylindrical cleaning members secured to said members; stops formed on said cleaning members; and retaining members removably mounted on said shaft for engagement with said stops retaining said cleaning members in an operative position.

1,474,995. HOSE COUPLING. WILLIAM E. BURROUGHS, Brooklyn, N. Y. Filed Sept. 14, 1921. Serial No. 500,623. 5 Claims. (Cl. 285—129.)



5. In a hose coupling, a pair of ring members each secured to an end of a hose, a plurality of bars formed to clamp the ring members together and having slots outwardly disposed relative to the points of engagement, and bolts passing through the slots for securing the bars together in pairs.

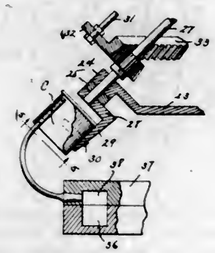
1,474,996. PUMPING JACK. JOHN H. CARSON, Los Angeles, Calif. Filed Nov. 18, 1922. Serial No. 601,834. 1 Claim. (Cl. 74—5.)



A pump jack comprising a frame adapted for clamping on a well casing; horizontal rocker shafts rotatably mounted on said frame and having arms affixed thereto; a toggle grip supported by said arms and therebetween; and means for oppositely oscillating said shafts to vertically reciprocate said grip.

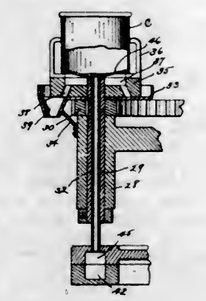
1,474,997. AUTOMATIC CARTON-BODY-COATING MACHINE. FREDERICK COATES, Cincinnati, Ohio, assignor to Federal Products Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 11, 1921, Serial No. 491,451. Renewed Sept. 6, 1923. 3 Claims. (Cl. 91—44.)

1. In a carton coating machine, a main shaft, a gear mounted on the said shaft, bearings carried by said gear, a spider mounted on the said shaft below the gear, bearings carried by the spider and aligned with the first mentioned bearing, carrier shafts journalled in respective gear and spider supported bearings, carton carrier heads mounted on the lower ends of said shafts, a gear ring surrounding said shaft and immovably supported in position, gears on said carton carrier shafts meshing with



the gear ring, means to drive the first mentioned gear and means to supply coating material to the insides of cartons supported on said heads.

1,474,998. AUTOMATIC CARTON-MOUTH-COATING MACHINE. FREDERICK COATES, Cincinnati, Ohio, assignor to Federal Products Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 11, 1921. Serial No. 491,452. 4 Claims. (Cl. 91—44.)

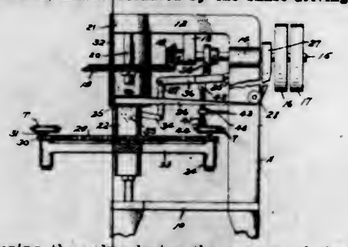


1. In a carton coating machine, a carton carrier, an arm supporting said carrier, a shaft to which said arm is fixed, means to drive said shaft and move the carrier around a circular path, means to rotate the carrier during its movement along its path, a source of supply for coating material, a delivery nozzle supported to rotate with the carrier and deliver coating material to a carton on said carrier, a coating material receiving pocket whereto said nozzle is connected, said pocket being opened at the bottom and rotating with the carrier, a circular plate whereon said pocket rests and travels, said plate having a trough forming around a portion wherewith said pocket may register during its movement, said trough having a permanent connection with the source of supply, and means to receive excess coating material delivered through said nozzle.

1,474,999. AUTOMATIC CARTON-HEAD-COATING MACHINE. FREDERICK COATES, Cincinnati, Ohio, assignor to Federal Products Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 11, 1921. Serial No. 491,453. 7 Claims. (Cl. 91—25.)

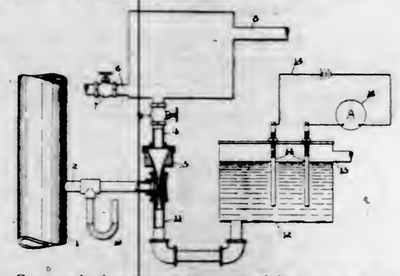
1. In a carton head coating machine, a shaft, an arm projecting from the shaft, a carton head carrier at the outer end of the arm, means to rotate the shaft and thus move the carrier in a circular path, a tank for coating

material above said path, a valved nozzle in the bottom of said tank, means actuated by the shaft driving means



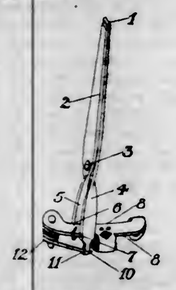
for opening the valve during the passage of the carrier beneath the nozzle and mechanical means spaced from the nozzle to spread the material ejected from the nozzle.

1,475,000. GAS-ANALYZING APPARATUS. ROBERT E. COOPER and CHARLES O. SISLER, Sault Ste. Marie, Ontario, Canada. Filed Nov. 29, 1922. Serial No. 603,982. 5 Claims. (Cl. 23—3.)



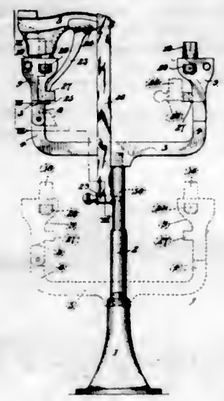
1. Gas analyzing apparatus comprising means for continuously withdrawing at a constant rate a small portion of gas from a gas mixture from a conduit in which said mixture is flowing and bringing it into intimate contact with a liquid supplied at a constant rate and at a constant ratio relative to the gas and capable of absorbing one of the components of the gas mixture; an electrolytic cell into which the sampling means discharges and which is provided with an overflow; and means for continuously determining the changes which take place in the electric conductivity of the liquid in the cell.

1,475,001. TOOL FOR INSERTING SPRINGS IN DISTRIBUTORS. JAMES G. DAWSON, Portsmouth, Ohio. Filed Aug. 26, 1921. Serial No. 495,626. 2 Claims. (Cl. 29—87.1.)



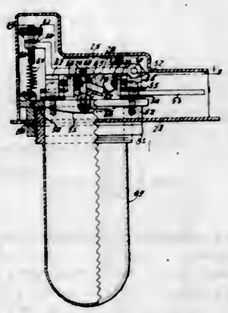
1. A tool for distributors including two straight and slender members pivoted together and comprising each a handle and jaw on opposite sides of the pivot, said jaws having each a notch on its inner face, and one of said jaws provided with a notched finger at its extreme outer end.

1,475,002. SHOE JACK. GIOVANNI DE SANCTIS, Hubbard, Ohio. Filed Oct. 7, 1922. Serial No. 593,147. 9 Claims. (Cl. 12—123.)



1. In a shoe jack, a stand, a cross head carried thereby, a block rotatably adjustable on each end of the cross head, and constructed to support a last in either vertical or horizontal position, the vertical support including a spacing member having an axial bore and threaded to the block, said block having a laterally opening pocket communicating with the lower end of the member bore, a last having a threaded bolt extending through said bore into the pocket and a nut secured to the end of the bolt.

1,475,003. WATER HEATER AND CONTROL SWITCH THEREFOR. MANUEL D. DOMINGUEZ, New Orleans, La., assignor of ten per cent to Charles A. Denis and George Sarpy, both of New Orleans, La. Filed May 20, 1922. Serial No. 562,442. 4 Claims. (Cl. 219—38.)



1. A water heating system comprising a reservoir, a continuously acting heater connected to said reservoir and means to reverse the circulation of water through said heater upon the generation of steam pressure whereby water and steam from the heater will be delivered to the bottom of the body of water in the reservoir.

1,475,004. WRENCH. ARCHIBALD HUGH DUNCAN, Napanee, Ontario, Canada. Filed Feb. 13, 1922. Serial No. 536,104. 1 Claim. (Cl. 81—140.)

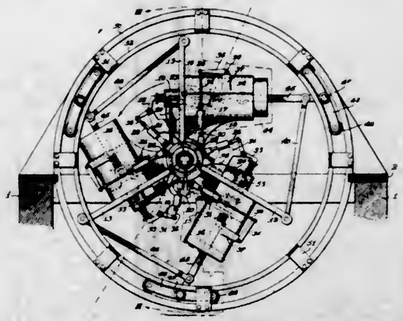
A wrench wherein a body of rectangular form in cross section is provided, said body being of extended width relative to thickness to provide wide side faces and narrow front and back edges, said body being formed with

an integral jaw portion projecting laterally from the front edge of said body, and a movable jaw opposing the fixed jaw and having a sleeve portion sleeved upon said body to slide longitudinally thereon, said wrench being characterized in that said wide side faces are formed with teeth extending transversely of said faces and parallel with the longitudinal plane of said jaws,



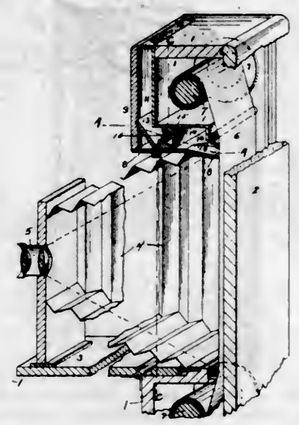
and pawls pivotally connected to said sleeve of said movable jaw to swing toward said wide side faces of the body into engagement with said teeth, said pawls having wide end portions to engage said teeth and to have a bearing thereon throughout the width of said side faces of said body, and said teeth and pawls being relatively positioned in such manner that active pawl engagement during service is limited to a single pawl.

1,475,005. GAS ENGINE. JOHN A. EMBACH, Detroit, Mich. Filed July 18, 1921. Serial No. 485,501. 4 Claims. (Cl. 123—43.)



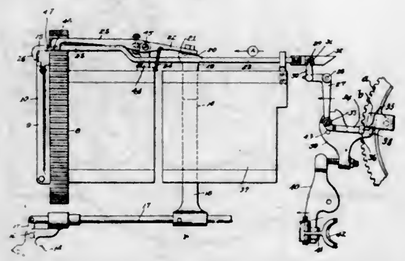
1. A rotary internal combustion engine, comprising a power shaft, tangentially disposed cylinders carried thereby, an annular piston abutment about said cylinders, movable piston abutments in said annular piston abutment, pistons in said cylinders connected to said movable piston abutment, means extending from said power shaft at one side of the plane of said cylinders permitting of explosive mixtures being admitted to said cylinders and burned gases exhausted therefrom and valvular mechanism operated by said power shaft at the other side of the plane of said cylinders for controlling the admission of explosive mixtures to the cylinders and the exhaust of gases therefrom.

1,475,006. PHOTOGRAPHIC CAMERA. FRANK M. FABER, Canton, Ohio. Filed Apr. 2, 1915. Serial No. 18,662. 29 Claims. (Cl. 95—1.1.)



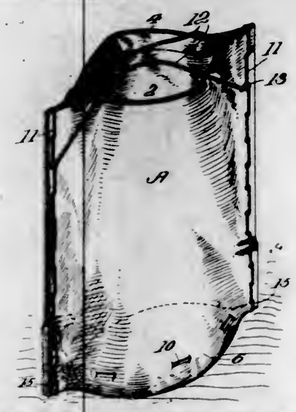
1. A hand camera comprising means for focusing the image of a scene on a sensitized surface, an inscription receiving means, means for reflecting a true inscription appearing on said receiving means, and means for vertically and laterally reversing said reflection and for focusing the vertically and laterally reversed deflection on said sensitized surface.

1,475,007. SAFETY ATTACHMENT FOR TYPE-SLUG-CASTING MACHINES. CHRISTIAN FADUM, New York, N. Y. Filed Dec. 22, 1919. Serial No. 346,486. 8 Claims. (Cl. 199—52.)



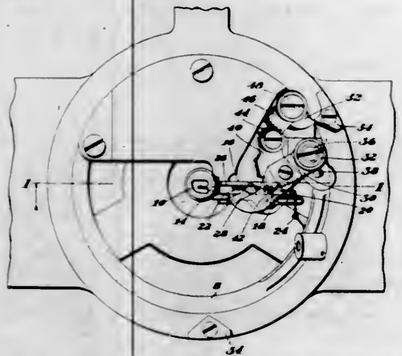
1. A type slug casting machine embodying a reciprocating mold disk, ejector selecting means for delivering the slugs from molds in said disk, and a stopping mechanism for said machine; in combination with an attachment as characterized comprising a series of liners for insertion in said molds, said liners having each an extension for projection beyond said molds, the lengths of said extension having correspondence with said selecting means; a connecting mechanism for said stopping mechanism embodying a draw bar the end whereof is normally disposed in the plane of movement of said liners and in spaced relation to the end of said extensions; and means operatively connected with said disk, and a controlling mechanism for said ejector devices for depressing the end of said draw bar toward the path of said extensions for engagement by the extensions which do not correspond with the said selecting means being employed.

1,475,008. SHOPPING BAG. JOHN A. FLUELLEN, Hardy, Ky. Filed Aug. 9, 1922. Serial No. 580,660. 9 Claims. (Cl. 229—57.)



1. A bag of the character described, formed of a continuous piece of flexible material, the bottom of the bag formed to make a bellows by folding the material inwardly at the bag bottom and the vertical edges of the bag sides and the vertical edges of the bellows portion stitched together, for the purpose described.

1,475,009. SEWING MACHINE. JOSEPH FOSSA, Danvers, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 11, 1919. Serial No. 270,736. 14 Claims. (Cl. 112—161.)



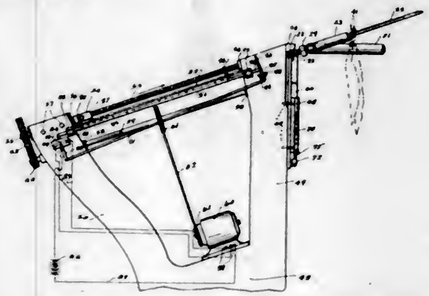
1. A sewing machine, having, in combination, stitch forming mechanism for sewing an overseam, a throat plate below the work provided with a stay cord guide, means for cutting the cord back of the guide, and means for projecting the end of the supply cord through the guide.

1,475,010. BED. FRANK A. GARBUTT, Los Angeles, Calif. Filed Oct. 15, 1919. Serial No. 330,861. 6 Claims. (Cl. 5—258.)



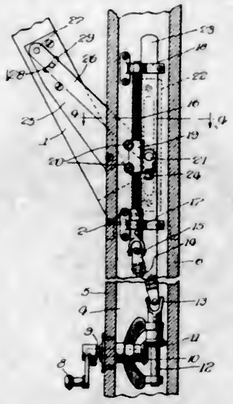
1. In a bed: a plurality of plungers, each including a stem and a head on the upper end of said stem; means for mounting the stems of said plungers for axial movement; elastic means for resisting the movement of each plunger; and means for adjusting the tension of the elastic means of a plurality of said plungers together.

1,475,011. TAG-RELEASING DEVICE. ANGUS F. HANNEY and ALEXANDER GAMMELL, Chicago, Ill., assignors to Eureka Rough Dry Pin System Co., Chicago, Ill. Filed Feb. 1, 1923. Serial No. 616,449. 46 Claims. (Cl. 40—2.)



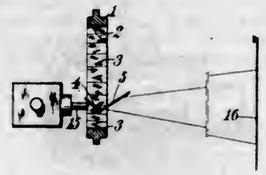
10. In combination with a laundry tag having means for carrying an article and a lock member for preventing removal of the article; a member mounted for reciprocatory movement and for engagement with said member for releasing said member to permit removal of the article.

1,475,012. CONCEALED TRANSOM-OPERATING MEANS. ELIJAH PREBLE HARRIS, Chicago, Ill., assignor to Payson Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 23, 1918. Serial No. 263,940. 5 Claims. (Cl. 268—17.)



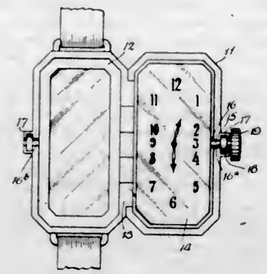
1. In combination, a hollow door frame, a transom hinged at the lower side of its sash to the transom rail, a vertically arranged screw-threaded spindle mounted within one of the hollow members of said frame, a plurality of supports therefor, a pair of beveled gears for rotating said spindle, an operating rod projecting through the door trim and provided with a handle, a screw-threaded nut on the upper end of said rod arranged between two of said supports, an extension thereon projecting through a slot in said hollow member, a plate on the jamb face of said hollow member, having a slot therein through which said extension projects and a link pivotally secured to said transom and to said extension between said transom and said door frame.

1,475,013. CINEMATOGRAPHIC APPARATUS. KINGSLEY HIGGINSON, London, England, assignor to Carey-Gavey Syndicate Limited, London, England, a British Company. Filed Feb. 2, 1922. Serial No. 533,558. 4 Claims. (Cl. 88—16.8.)



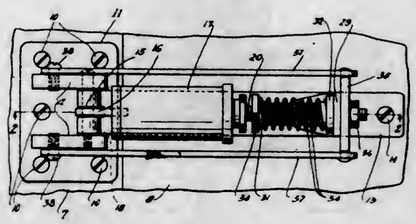
1. In a cinematographic apparatus, an image plane, an annular mirror comprising a series of internal facets adapted to project light rays onto said image plane, means for projecting light rays onto said facets from a continuously moving film to be projected, and means for imparting a movement of translation to said facets, such that the point on the facet which receives a given ray from a picture being projected does not change, and an angular movement sufficient to reflect said ray in such manner that it shall always intersect said image plane at substantially the same point.

1,475,014. WATCHCASE. JOSEPH C. HOWARD, Chicago, Ill. Filed Jan. 29, 1923. Serial No. 615,473. 6 Claims. (Cl. 58—90.)



1. The combination with a two-piece watch case provided with a stem opening at the joint between the cap and body thereof, of a packing box surrounding said opening.

1,475,015. DOOR-CLOSING MECHANISM. WILLIAM E. HUBER, Chicago, Ill. Filed Nov. 13, 1922. Serial No. 600,630. 7 Claims. (Cl. 16—49.)



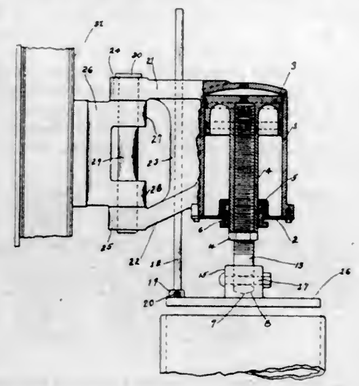
1. The combination with a door; of a chamber mounted thereon adapted to contain fluid; a piston mounted in said chamber adapted for free movement in one direction but having means for retarding the movement thereof in the opposite direction; an extension on said piston; means for slidably mounting the outer end of said extension; resilient means disposed on said extension and adapted to be compressed by the outward movement thereof; and means mounted adjacent said door and being connected to said extension for operating the same.

1,475,016. VEHICLE BRAKE. FRANK S. HUTCHISON, Garrettsville, Ohio. Filed Dec. 16, 1921. Serial No. 522,750. 4 Claims. (Cl. 188—115.)



1. In combination with a wagon adapted to be operated by draft-animals and having a tongue, a neck-yoke, a brake-beam carrying brake-shoes in front of the rear wheels, an upstanding lever carried by the wagon, an operative connection between the lever and the brake-beam, flexible connection running from the lever and across the forward portion of the tongue and connected to the neck-yoke, and a pendent pivoted take-up for the flexible connection between the latter and a portion of the wagon.

1,475,017. COMPRESSOR FOR MOLDING MACHINES. ALFRED M. JONES, Milwaukee, Wis. Filed Feb. 10, 1921. Serial No. 443,824. 7 Claims. (Cl. 22—43.)

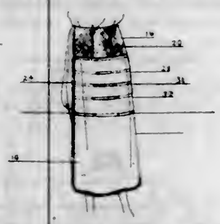


1. In a compressor for moulds, the combination with a cylinder provided with a threaded aperture adjacent its upper end, of a piston provided with an annular groove adjacent its upper end, a hollow cylindrical member engaging the cylinder in said aperture, said member having one end closed and the other end open to said cylinder, a pin within said member provided with a conical end adapted to engage said annular groove, means for limiting the axial movement of said pin, and a spring disposed between said pin and the closed end of said member and adapted to actuate said pin outwardly of said member, whereby said piston will be automatically retained in its retracted position irrespective of the fluid supply.

1,475,018. DRESS SHIELD. ALMA MARIE LASSEN, New York, N. Y. Filed Sept. 19, 1923. Serial No. 663,525. 8 Claims. (Cl. 2—54.)

1. An article of the type described which comprises a piece of fabric of substantially apron form adapted to be

worn dorsally, and stiffening material at the part of its area corresponding to the seat portion of said fabric,



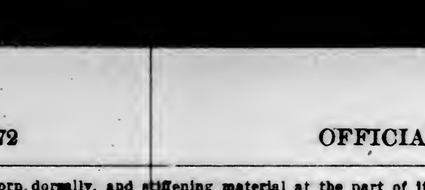
said stiffening material being so arranged at said seat portion as to resist the bending of said seat portion on substantially vertical lines only.

1,475,019. WIRE-ROPE KNIFE. FOSTER H. LEIDECKER, Marietta, Ohio, assignor, by mesne assignments, to The Leidecker Tool Company, Marietta, Ohio, a Corporation of Ohio. Filed Aug. 22, 1921. Serial No. 494,187. 2 Claims. (Cl. 255—34.)



1. A rope knife including two members engaging each other upon a bevel loosely linked together, and through which the rope to be cut is adapted to extend, and a strip of spring plate rigidly secured to the edge of one member and lying flat thereagainst with its free end projecting against the corresponding side of the other member.

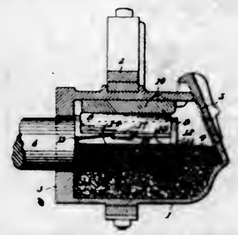
1,475,020. DEVICE FOR DISTRIBUTING FLUID PRESSURE TO HYDRAULIC COUPLINGS. FAITZ MAYER, Ulm, Germany, assignor, by mesne assignments, to John Keller, Obersienningen-Teck, Wurttemberg, Germany. Filed Sept. 10, 1920. Serial No. 409,491. 3 Claims. (Cl. 192—87.)



1. In a device for distributing fluid pressure to hydraulic couplings, the combination with the couplings and a transmission shaft carrying the same, of a distributing member, loosely mounted on the said shaft and having channels in its outer surface, conduits in communication with the said channels and leading to the various couplings, a stationary casing surrounding the said distributing member and having one inlet opening and a plurality of outlet openings adapted to register with the channels in the said distributing member to admit oil under pressure to any of the said couplings by means of the said conduits for connecting such coupling and to discharge the oil therefrom respectively, an oil tank, and means forming an escape for the oil returned from the said couplings.

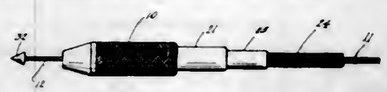
1,475,021. JOURNAL-BOX BEARING. BRUNO MILEWSKI, Kent, Ohio. Filed Apr. 18, 1923. Serial No. 632,950. 2 Claims. (Cl. 64—24.)

1. In a journal box bearing and lubricator, a bearing box containing lubricant saturated material, a shaft end extending into the box and dipping into the material, a bearing interposed between the upper side of the box and shaft end, a lug projecting from each side of the bearing, and a wire hold-down for the saturated material



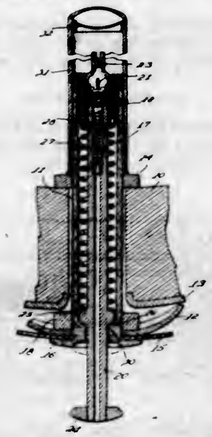
having side portions positioned in spaced relation to the shaft end and arms extending having clamp ends engaging the bearing lugs to prevent conveying of the material upon rotation of the shaft end.

1,475,022. MOTOR-DRIVEN MANICURING DEVICE. GEORGE W. MOORE, Chicago, Ill. Filed Jan. 27, 1923. Serial No. 615,221. 8 Claims. (Cl. 132—74.)



1. A device of the character described comprising a housing having a rotatable member therein, there being a slot in such member; a driving shaft having a key detachably engaging in said slot; a casing for said shaft; means for detachably connecting said casing and said housing for holding said key in said slot, comprising an expansible constricted portion and a grooved plug engageable therein; and means for connecting a tool to said rotatable member.

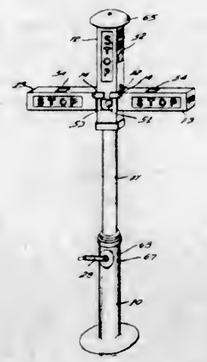
1,475,023. TIRE VALVE. SAMUEL S. MOORE, Cleveland, Ohio, assignor of one-half to Ralph D. Miller, Cleveland, Ohio. Filed Apr. 12, 1922. Serial No. 551,818. 15 Claims. (Cl. 116—34.)



13. In a device of the class described, the combination with a pneumatic valve, of a housing therefor, said housing comprising a one piece member having an enlarged portion thereon, a casing surrounding the housing and having a shoulder thereon, said enlarged portion and

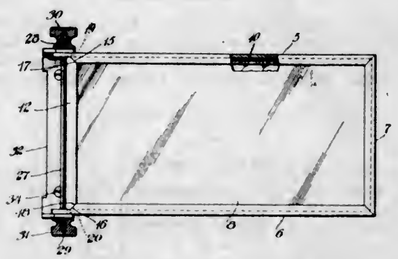
shoulder forming an auxiliary valve, yieldable means for normally holding said valve in closed position, said housing having a portion thereof extending into a pneumatic tube but terminating short of the outer wall thereof, means whereby contact between the wall of the tube and the projecting portion of said member opens said auxiliary valve, said auxiliary valve being also adapted to be opened by excessive pressure in the tube, a dust cap carried by the casing, and a signal actuated by air escaping through the auxiliary valve.

1,475,024. TRAFFIC SIGNAL. GARRETT A. MORGAN, Cleveland, Ohio. Filed Feb. 27, 1922. Serial No. 539,403. 7 Claims. (Cl. 116—63.)



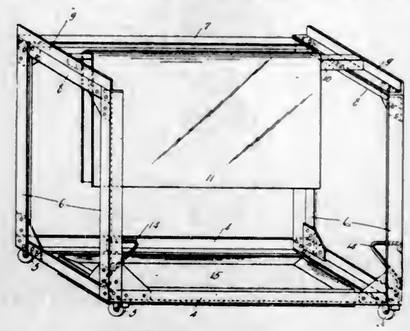
6. In combination, a standard, a hollow member projecting upwardly therefrom, an indicator rigid with the upper end of said standard, semaphore arms pivoted to the indicator, mechanism controlled from the standard for actuating the arms to move them in a vertical plane and for revolving them with the indicator to a new position, means associated with the standard for indexing the indicator to the proper position, means associated with said standard for retaining the arms in a vertical position during a portion of the turning operation and for releasing the arms when moved to a new position, and a dash pot associated with said member for cushioning the shock incident to the fall of said arms.

1,475,025. LICENSE-CARD HOLDER. JOHN J. NEWMAN and LLOYD L. NEWMAN, Rockwood, Pa. Filed Mar. 16, 1923. Serial No. 625,532. 7 Claims. (Cl. 40—10.)



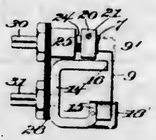
1. A license card holder comprising a channel frame having a removable section, transparent panels yieldably held in said channel frame and being yieldably spaced apart to provide a pocket therein open at the removable section, said removable section having a cushioning element for engaging against the ends of the panels and having a filler strip adapted to engage between the glass panels to close the opening in the pocket and to cushion the panels, and means for hingedly supporting said frame to enable it to be moved to expose both sides of the license card held therein.

1,475,026. SUPPORT FOR DYEING OR DRYING RUGS OR THE LIKE. WALTER E. OLSON, Chicago, Ill. Original application filed Sept. 24, 1921, Serial No. 502,898. Divided and this application filed July 15, 1922. Serial No. 575,419. 4 Claims. (Cl. 34—26.)



4. A device of the class described comprising a wooden bar; a line of staples driven in said bar along substantially the central portion of the top thereof, said staples protruding from the top of said bar; and a line of staples driven in said bar along each upper edge thereof and projecting upwardly and laterally from said bar, substantially as described.

1,475,027. DETECTOR FOR WIRELESS SIGNALS. EUGENE F. RANDALL, Medford, Mass., assignor to American Radio & Research Corporation, Medford, Mass., a Corporation of Delaware. Filed June 7, 1922. Serial No. 566,464. 11 Claims. (Cl. 250—31.)

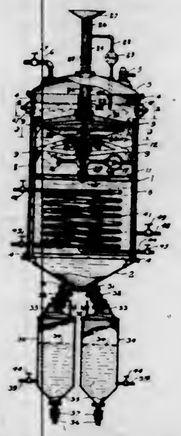


1. A detector for wireless signals comprising a sensitive crystal, a magnetic pole located at a distance removed from the crystal, a conducting contact member of magnetic material having an end in engagement with the surface of the crystal and an end supported in firm and easily slidable contact upon the magnetic pole, and magnetic means interposed between the pole and the crystal for maintaining the conducting member in pressure engagement with the crystal.

1,475,028. APPARATUS FOR SEPARATING OIL FROM OIL-BEARING SANDS AND ROCKS. WILLIAM J. REILLY, Denver, Colo. Filed Feb. 17, 1922. Serial No. 537,200. 5 Claims. (Cl. 196—19.)

1. An apparatus for separating oil from oil-bearing rock, comprising in combination, a vertically arranged substantially cylindrical still member adapted to contain oil, a supporting framework within said still, a pair of bearings supported by said framework, a shaft rotatable in said bearings, means for rotating said shaft, a grinding

element non-rotatably secured to the upper end of said shaft, a second grinding element rigidly secured to said



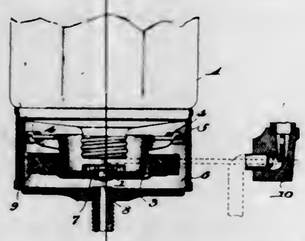
framework, means for introducing the oil-bearing rock to said still and between said grinding elements, and a heating coil located within said still below said grinder.

1,475,029. PROCESS OF APPLYING CEMENT PATCHES. LOREN RISK, Minneapolis, Minn. Filed July 27, 1922. Serial No. 577,877. 5 Claims. (Cl. 18—53.)



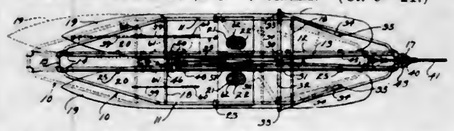
1. A process for applying cement patches which consists in heating the surface to be repaired, applying cement to the heated surface, and pressing a patch upon the cement-coated surface.

1,475,030. BALL-VALVE CONTROL. HENRY M. SHEDD, Quincy, Ill. Filed June 10, 1922. Serial No. 567,452. 2 Claims. (Cl. 158—38.)



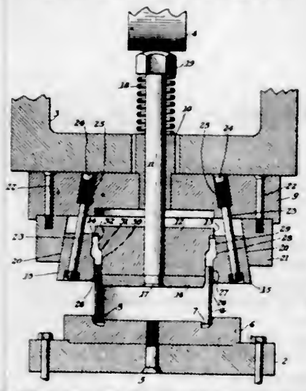
2. The combination of an oil supply, a main oil chamber having a flange or ledge extending inwardly from the wall thereof, a removable auxiliary oil chamber in the form of a casting having spider arms adapted to rest upon the ledge or flange, said auxiliary chamber having an opening in the bottom in the form of a valve-seat, and a float having a ball valve in position to control the passage of oil from the auxiliary to the main oil chamber.

1,475,031. APPARATUS FOR WALKING ON WATER. ALBERT N. SHELDON, Ventura, Calif. Filed June 14, 1922. Serial No. 568,176. 7 Claims. (Cl. 9—21.)



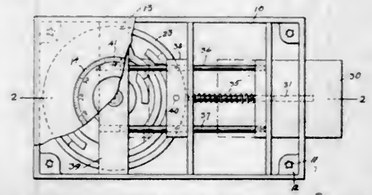
1. In an apparatus for walking on water, a frame, parallel floats beneath the frame, means shiftably supporting the frame on the floats, a lever pivoted near its middle to the frame, and links pivoted to the ends of the lever and to the floats respectively.

1,475,032. MECHANISM FOR MAKING THREAD PROTECTORS. PETER J. SHRUM, Monaca Heights, and HAROLD A. HENIGEN, Rochester, Pa., assignors to Colona Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 15, 1922. Serial No. 575,167. 9 Claims. (Cl. 29—33.)



3. Mechanism for making thread protectors comprising a pressing plunger and a block arranged in proper relation with each other for cooperative engagement on a tubular blank, means on said plunger for applying a longitudinal pressure to the blank, means on the plunger for applying a radial pressure to a part of the blank intermediate its ends to decrease the diameter of such part and increase the thickness of the metal at that part, and means on the block for forming an annular bead adjacent the contracted intermediate part of the blank and for turning the end of the blank at which the bead is formed inwardly.

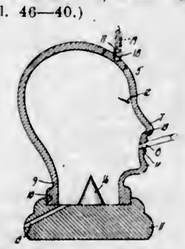
1,475,033. COMBINATION LOCK. HARRY SIMBOL, Edmonton, Alberta, Canada, assignor of one-third to John G. Barilko, Edmonton, Alberta, Canada. Filed June 2, 1922. Serial No. 565,343. 1 Claim. (Cl. 70—18.)



In a combination lock of the class described, a disc adapted to be operated by the combination lock knob, a plurality of open grooves, and ridges forming said grooves on said disc, said grooves and ridges arranged in two sets

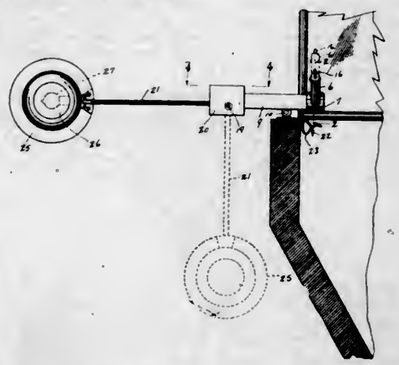
each provided with cam abutments, and means for yieldingly supporting said abutments, means for locking one of the sets of grooves and ridges against operation, and a lock bolt adapted to be normally pressed into locking position, a pin connected with said bolt adapted to alternately engage said abutments to slide from a groove across an adjoining ridge into the adjoining groove and along its bottom and to engage the top of the abutment on the next adjoining ridge to depress the same upon the rotation of said disc in one and the other direction to successively set the combination.

1,475,034. SMOKING DOLL. MABEL H. SLATER, New York, N. Y. Filed Nov. 3, 1921. Serial No. 512,591. 1 Claim. (Cl. 46—40.)



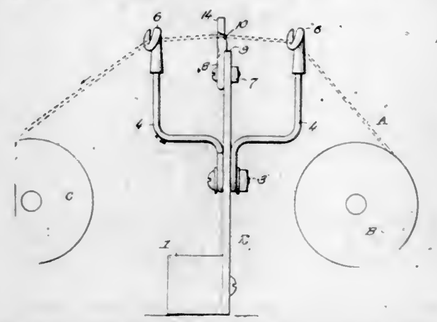
A smoking doll having, in combination, a hollow head provided with openings through the eyes, nose or mouth and a cylindrical neck portion, a base upon which said head is mounted, said base being provided in the top thereof with a cylindrical recess adapted to receive said neck portion and also to receive an inflammable material, and position the same within said cylindrical recess, said base being also provided with an inlet passage extending from the outside thereof into said recess, whereby upon lighting said material smoke may be caused to issue from said nose, eyes or mouth.

1,475,035. SIGNALING DEVICE. HENRY SNYDER, Chicago, Ill. Filed Jan. 14, 1921. Serial No. 437,206. 4 Claims. (Cl. 74—39.)



1. A signal operating device including a shaft adapted to oscillate through a vertical plane, means for operating said shaft, said means including a shaft operatively connected to the oscillatory shaft and an operating handle carried by the second named shaft, and means for locking the oscillatory shaft with its length extending in a horizontal plane, said means includes a ratch member, having a peripheral flange with notches formed therein and a plunger for engagement with the notches and having a notch formed in its end for the reception of the peripheral flange.

1,475,036. THREAD-CLEANING ATTACHMENT FOR TEXTILE MACHINERY. MYRON C. STERLING, Mifflinburg, and WILLIAM E. SALLADE, Turbotville, Pa. Filed Dec. 31, 1921. Serial No. 526,133. 3 Claims. (Cl. 28—71.)



1. A cleaning attachment for thread comprising a vertical standard, substantially L-shaped guide members adjustably attached to the standard upon opposite sides thereof and midway the extremities of the standard, a block attached to the upper terminal of the standard for angular adjustment, and a cleaning blade mounted for pivotal and sliding adjustment with respect to the block.

1,475,037. PISTOL. EDWARD THIMGREN, Popotla, Mexico. Filed Dec. 28, 1922. Serial No. 609,507. 3 Claims. (Cl. 42—69.)

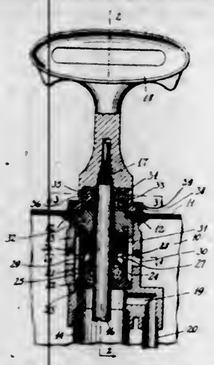


1. The combination with a pistol having a hand grip, a casing or frame carried by said hand grip, and a barrel secured to said frame of a finger rest formed in said frame and extending in parallelism with said barrel, a chamber formed in said hand grip and said frame, a pivot pin journaled in said chamber, a lever fixed to said pin, a trigger fixed to said pin and projecting laterally from said case, a pivotally mounted lever secured to said chamber and adapted to operatively engage said first mentioned lever, and a firing pin engaging sear operatively connected to said pivotally mounted lever for actuating the sear to release the said firing pin from its cocked position.

1,475,038. AIR VENT FOR CONTAINERS HAVING PUMPS. HARRY E. TUNNELL, New York, N. Y., assignor to Fire Gun Manufacturing Company, Inc., New York, N. Y., a Corporation of New York. Filed July 7, 1921. Serial No. 482,918. 8 Claims. (Cl. 299—97.)

1. In apparatus of the class described, a container, a pump comprising a barrel located within the container, a reciprocating piston in said barrel, and a piston rod extending to the outside of the container, a packing box through which said rod extends, said box containing an inner washer of lubricating character, a dry outer washer

permeable to air, and a separating member between said washers perforated to allow the air entering along the



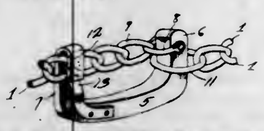
piston rod and passing through said outer washer to reach the interior of the container from a point between the two washers.

1,475,039. VANITY CASE. ANNA S. TURNQUIST, Minneapolis, Minn. Filed Mar. 8, 1923. Serial No. 623,614. 1 Claim. (Cl. 132—83.)



A vanity case comprising a boxlike member having a bottom provided with a central flat portion and an upwardly curved annular portion at its periphery and having a vertical wall formed by bending upwardly the outer edge of said annular portion, an interior cover provided with perforations and hinged to said boxlike member, said interior cover being centrally depressed to form a pocket for a powder puff, and an exterior cover hinged to said boxlike member in spaced relation above said interior cover.

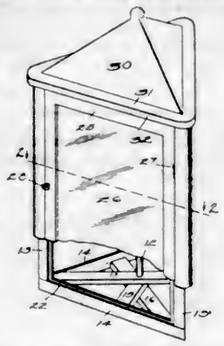
1,475,040. TIRE CHAIN. CARL VAN STEENBERGEN, Newton, Iowa. Filed Feb. 15, 1923. Serial No. 619,174. 1 Claim. (Cl. 24—69.)



The combination with the adjacent ends of a tire chain, of a tightening device therefor, said device comprising a U-shaped member, parallel arms carried by said U-shaped member, a hook carried by one of the parallel arms and adapted to receive the chain adjacent one of its ends and of greater depth than the width of the chain, said chain end being in turn pivotally connected to the other parallel arm and when tightened disposed at a right angle to the last named arm, said U-shaped member extending through a link carried by the other adjacent end of the chain to a position where said link engages the last named parallel arm and spring means cooperating with the hook for preventing the hook from coming out of engagement with the chain.

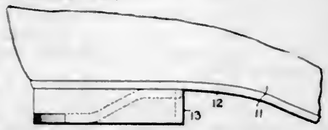
1,475,041. ADVERTISING-DISPLAY DEVICE. JAMES W. ALSTOTT, Fort Dodge, Iowa, assignor of one-half to Arthur Earl, Fort Dodge, Iowa. Filed June 28, 1922. Serial No. 571,342. 1 Claim. (Cl. 40—68.)

In an advertising display device, a base, a supporting shaft and a frame rotatably supported thereon, said frame comprising three corner posts equidistantly spaced from each other and from the supporting shaft, said posts being connected by inner cross strips at their upper and lower ends, rabbeted depressions in the inner edges of the outer faces of said cross strips and of the corner posts, moulding pieces fixed to the outer faces of the cross strips and corner posts and covering the rabbeted



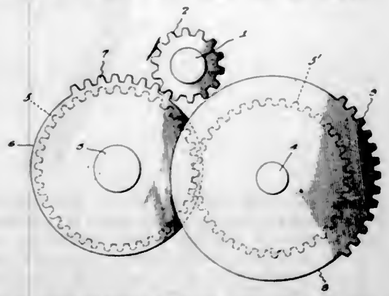
depressions so as to form inwardly opening slots, panel members received in said slots, door members hinged to the moulding pieces on the corner posts and adapted to fit within the inner outline of the moulding strips, and cross braces extending from each of said corner posts to the cross strips of the side opposite each of said posts.

1,475,042. COMPOSITE HEEL. PAUL ARTHUR, Chicago, Ill. Filed Apr. 11, 1921. Serial No. 460,290. 1 Claim. (Cl. 36—75.)



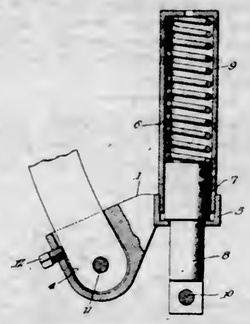
A heel comprising, in combination, a body of comparatively soft rubber or rubber compound having a recess in which is fitted a metal insert; said metal insert being shaped to permit introduction of, or withdrawal from said recess at the front of said body and having a rear wear resisting portion exposed substantially flush with the lower surface of said heel.

1,475,043. ATTACHMENT FOR COMBING MACHINES. EDMOND A. DAVIGNON, ARTHUR E. BARRY, and JAMES GREENHALGH, Plainfield, Conn. Filed July 23, 1921. Serial No. 487,153. 1 Claim. (Cl. 19—119.)



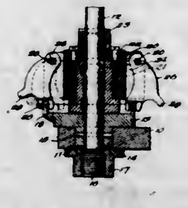
A driving mechanism for the detaching roll of a combing machine comprising a shaft geared to the cylinder shaft of the machine, a long gear on the detaching roll, a disc on the cylinder shaft having a number of teeth on a part of its circumference for engaging the gear on the detaching roll and a disc on the first mentioned shaft having a number of teeth on a part of its periphery for engaging the gear on the detaching roll, the teeth on the second disc being greater in number than those on the first disc and said discs overlapping each other with the overlapping parts located under the long gear.

1,475,044. SHOCK ABSORBER. OTTIS GRANT BLOOM, Wilkes-Barre, Pa. Filed June 23, 1922. Serial No. 570,295. 1 Claim. (Cl. 208—101.)



A shock absorber of the character described comprising a support having a reduced end and provided with an elongated inclined socket formed therein to receive a forked prong of a bicycle, an interiorly threaded cup shaped part formed on the reduced end of the support and being provided with an open bottom, a cylinder threadedly secured in the cup shaped part and rising therefrom, a piston arranged for reciprocation in the cylinder and normally engaging the cup shaped part, a shank depending from the piston and passing through the open bottom of the cup shaped part, a coil spring having its end convolutions engaging the top of the cylinder and piston respectively, and an apertured flattened end formed on the shank adapted to receive the bicycle axle, as and for the purpose specified.

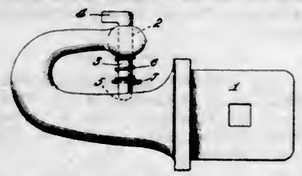
1,475,045. STITCH WHEEL FOR KNITTING MACHINES. JOSEPH BLOOM, New York, N. Y. Filed July 10, 1923. Serial No. 650,716. 4 Claims. (Cl. 66—27.)



1. A rotary burr wheel for use with knitting machines of the united needle type, said burr wheel comprising a plurality of substantially triangular plates having an attaching hook on one corner, a loop sinking nose on another corner and a bifurcated lug upon the third corner.

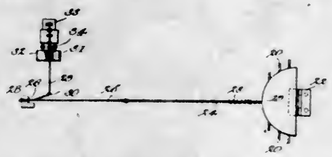
1,475,046. HOOK. JESSE BOLEI, Stockton, Ill. Filed Oct. 23, 1922. Serial No. 596,353. 1 Claim. (Cl. 24—241.)

A device of the class described comprising a hook having an enlarged end which is provided with a recess on its inner side, said enlarged end having a hole therein, the inner end of which communicates with the recess, a pin passing through the hole, the body of the hook having a hole therein in line with the first mentioned hole for receiving the end of the pin, a projection on the pin and a coil spring on the pin having one end engaging the projection and its other end the bottom of the



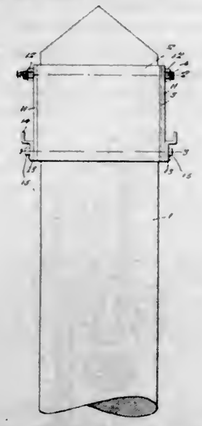
recess for holding the pin with its inner end in the hole in the body of the hook, said spring occupying the recess when the pin is in retracted position.

1,475,047. THROW-OFF MECHANISM FOR RIBBON LOOMS. JOSEPH BRESCH, Rosemont, N. J. Filed Feb. 14, 1922. Serial No. 536,604. 3 Claims. (Cl. 139—344.)



1. In a device of the class described, the combination of a pin for operation by a moving part of a loom, means for imparting a compound movement to said pin, a block having one of its faces provided with a curved surface, hingedly mounted supporting means for said block, a spring for holding said supporting means in operative position, a trigger operable by said supporting means, a brake device, and driving mechanism for said loom adapted to be rendered inoperative by said brake device upon the releasing of said trigger.

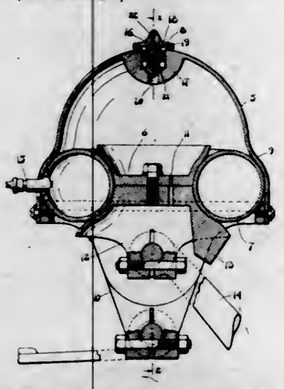
1,475,048. WEAR PLATE. SIDNEY B. CAMPBELL, San Antonio, Tex. Filed Jan. 26, 1923. Serial No. 615,060. 2 Claims. (Cl. 20—109.)



1. The combination with a pole having a headless bolt passing transversely therethrough, nuts on the bolt pocketed in the sides of the pole, and additional nuts below the first mentioned nuts also pocketed in the sides of the pole; of a wear plate comprising an annulus including two companion sections having their adjacent ends overlapped and ribs at said overlapping ends, said lapping ends being provided with upper and lower slots and

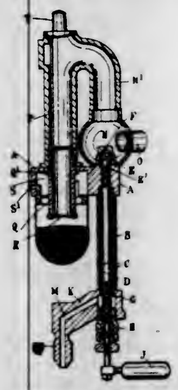
openings respectively, the upper slots and openings receiving therethrough the ends of the bolt, nuts screwed on said bolt, and lag screws passing through the lower slots and openings, through the second mentioned nuts and entering the pole.

1,475,049. AIR SPRING. FRANK S. CHURCH, Cincinnati, Ohio, assignor of one-half to The Thos. J. Corcoran Lamp Co., Cincinnati, Ohio, a Corporation of Ohio. Filed May 31, 1921. Serial No. 473,873. 2 Claims. (Cl. 267—65.)



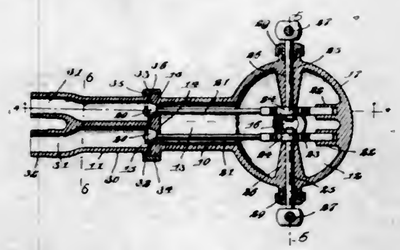
1. An air spring for vehicles comprising a substantially annular air cushion, a member located within the cushion and having curved surfaces adapted to engage a portion of the curved walls thereof, a member surrounding the cushion and having curved surfaces adapted to engage a portion of the curved walls thereof opposite that portion engaged by the first mentioned member, and a valve located in the outer member adapted to open in response to an increase of pressure within the outer member, said inner member having a passage therein communicating with the interior of the outer member, adapted to permit the restoration of normal pressure within the outer member after air has been discharged therefrom in response to the opening of the valve.

1,475,050. BURNER FOR LIQUID FUEL. EDWIN CLEARY, deceased, late of London, England; by Alfred Hutchison, administrator, London, England. Filed Jan. 3, 1923. Serial No. 610,543. 2 Claims. (Cl. 67—50.)



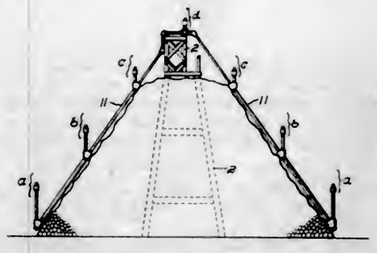
1. A liquid-fuel burner for heating inverted incandescent mantles, said burner comprising a heat-conducting plate, a tubular mixing chamber extending downwardly from said plate and having a flame orifice in its lower part, a second tube extending downwardly from the heat-conducting plate, an injector nipple arranged at the upper end of the second tube and delivering into an injector tube mounted above said heat-conducting plate, a valve-spindle extending axially through said second tube, a needle valve on said spindle controlling the thoroughfare of said nipple, wire gauze packing in the space between the valve-spindle and the interior wall of the tube, means for closing fluid tight the lower end of the second tube around said spindle, an oil-inlet branch at the lower end of the second tube and a U-shaped injector-tube mounted above the heat-conducting plate and connecting said mixing chamber and said nipple and having an air inlet at the end next to the nipple.

1,475,051. COMBINATION FAUCET. JOHN H. CLIFFORD, Arkansas City, Kans. Filed June 20, 1919, Serial No. 305,462. Renewed Mar. 12, 1923. 2 Claims. (Cl. 277—57.)



1. A valve comprising a hollow substantially spherical body having inlet and outlet openings, and for each inlet opening a valve member controlling its inlet opening, a valve stem connected to the valve member and having a rack bar at one end thereon, a guide socket extending inwardly from the spherical body and slidably receiving the end of the rack bar, a bearing extending inwardly from said spherical body, a shaft mounted in said bearing, a pinion carried by the shaft engaging the rack bar and a handle connected to the shaft, whereby the latter may be rotated to operate the valve member.

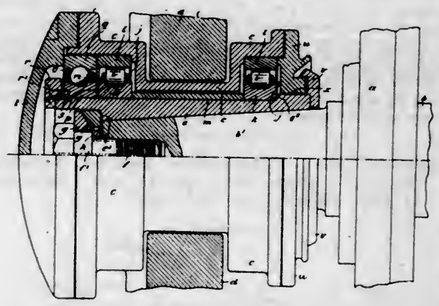
1,475,052. METHOD, SYSTEM, AND APPARATUS FOR LOG-PILE FIRE PREVENTION. BERTRAND R. T. COLLINS, Newton Center, Mass., assignor to Spray Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 25, 1921. Serial No. 447,718. 10 Claims. (Cl. 99—12.)



1. That method of preventing fires in log piles or like masses of irregular form above the level of the ground comprising the following steps; conveying water under confinement along a series of spaced paths distributed over the surface of the log pile or like mass, readily conforming said paths over the surface of the pile or mass to the general contour of the log pile and discharging the water in a fog-like or comminuted condition upwardly from said paths at points relatively closely spaced and so relating the points of discharge to each other along said paths that substantially the entire surface of the log pile is coated with a film or thin layer of water.

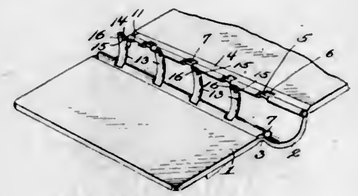
10. A system or apparatus for preventing fires in log-piles or like masses of irregular form, comprising a series of water pipe lines adapted to be connected to a suitable source of water supply, said pipe lines being adapted to lie upon the surface of the log-piles above the level of the ground and to conform generally to the contour thereof above the ground level, said pipe lines consisting of sections connected together flexibly by metallic joints so as thus to conform to the log-pile contour, said pipe lines being distributed over the surface of the pile, and a series of nozzles in communication with said pipe lines and adapted to discharge water in a fog-like or very finely comminuted condition, said nozzles being in sufficient proximity to each other at points along said several lines to effect the coating or covering of the exposed surface of the log-pile with a film or covering of water.

1,475,053. AXLE BOX AND BEARING FOR TRAMCAR AND LIKE VEHICLE WHEELS. THOMAS WILLIAM COOPER, Chelmsford, England, assignor to The Norma Company of America, Long Island City, N. Y., a Corporation of New York. Filed Feb. 6, 1922. Serial No. 534,512. 2 Claims. (Cl. 64—39.)



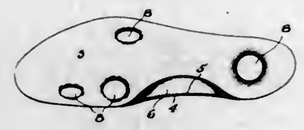
1. In an axle box and bearings for a tram car or like vehicle-wheel axle, the combination with the axle box housing of an axle having a tapered portion projecting beyond the face of the wheel, a cylindrical sleeve having an external shoulder and a tapered bore fitting around said tapered portion of the axle, means for fixing said sleeve to said axle, means for supporting the axle box housing on the axle comprising an inner set and an outer set of roller bearings operatively disposed between the sleeve and the said housing, each of said sets of bearings comprising an annular inner race bearing against the outer face of the sleeve, an annular outer race fitting tightly against the inner face of the housing, the inner race of the inner bearing being in abutment with the shoulder on the sleeve, and a number of rollers disposed between the races, a distance bushing embracing the sleeve and interposed between the two inner races, means for locating said housing endwise of the axle comprising a ball bearing including an inner race, an outer race, and a number of balls disposed between said two latter races, the said locating bearing arranged to bear against said outer set of roller bearings, and means for retaining said ball bearing in operative position.

1,475,054. LOOSE-LEAF BINDER. HARRY C. CROZIER, Phoenix, Ariz. Filed Aug. 4, 1922. Serial No. 579,745. 4 Claims. (Cl. 129—24.)



1. A loose-leaf binder including in combination, a cover, a leaf-holding post carried by said cover, said post having a transverse bore therethrough adjacent one end and a slot of smaller width than the diameter of the bore opening from the end face of said post into said bore, a reciprocable latching rod secured to said cover and alignable with the bore in said post, said rod having adjacent parts of two diameters, one fitting said slot and the other said bore, said rod being selectively longitudinally shiftable to bring the part of smaller diameter into alignment with said slot to enter therein and to telescope the part of larger diameter within said bore.

1,475,055. SHOE-INSOLE CONSTRUCTION. GEORGE R. DAVIS, Seattle, Wash. Filed Nov. 1, 1922. Serial No. 598,367. 3 Claims. (Cl. 36—71.)



1. The combination of an insole for shoes having an upturned flange along one side of the instep, an auxiliary insole, having holes cut out through the auxiliary insole, an upturned flange along the instep portion of the auxiliary insole and a flap affixed to the upturned edge of the auxiliary insole to form a pocket to receive the upturned part of the insole.

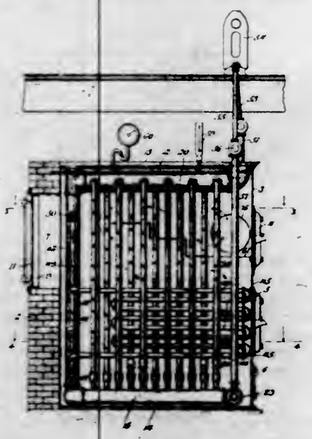
2. The combination with an insole for shoes having an upturned side along the instep portion, and an auxiliary pad conforming to the surface of the insole along the instep and raised portion, with a pocket formed on the edge of the pad, to conform to the shape of the upraised part of the insole, adapted to be adjustably placed thereon.

3. In shoe construction, an insole having an arched instep portion and one side along the instep raised to form a flange, and an auxiliary insole portion conforming to the shape of the original insole, having a pocket attachment adapted to be fixed over the upraised part of the original insole.

1,475,056. HOT-WATER BOILER. LAWRENCE DOERR, Silverton, Oreg. Filed Sept. 7, 1921. Serial No. 499,029. 6 Claims. (Cl. 122—359.)

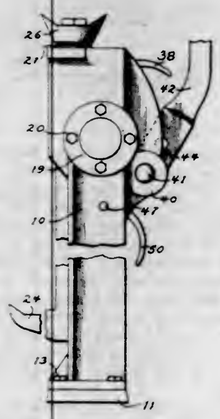
1. In a water heater, a lower U-shaped manifold, an upper centrally disposed discharge manifold, a riser connected to said manifolds, a plurality of water tubes connecting the legs of the U-shaped manifold to said discharge manifold, said tubes being vertical for a portion of their length above said legs and then bent into zig zag form across the space between said legs, a fire

chamber being formed below some of said zig zag tubes, water tubes forming water walls at the sides and rear end of the chamber, and zig-zag tubes forming



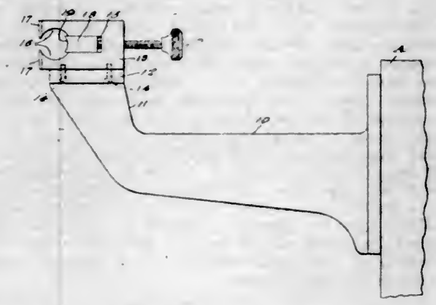
a grate, said tubes forming the side water walls, and the grate being connected to said lower manifold and said riser.

1,475,057. JACK. SIGURD ELLINGSEN, North Vancouver, British Columbia, Canada. Filed Aug. 16, 1919. Serial No. 318,022. 1 Claim. (Cl. 254—95.)



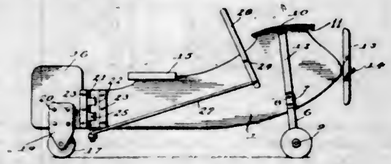
A jack comprising a casing divided into separate chambers, a toothed lifting element mounted for reciprocation in one of said chambers, a shaft mounted for rotation in the other chamber, teeth carried by the shaft intermediate its ends for operative association with the teeth in the lifting element, a ratchet wheel surrounding the shaft and secured thereto adjacent the teeth thereon and being arranged in the last mentioned chamber, a clevis including spaced plates arranged on opposite sides of the ratchet wheel and each being provided with an opening of a different diameter, said openings being adapted to fit shoulders of like diameters on the shaft and being concentrically arranged with respect to one another, a web connecting the plates adjacent the upper ends, a handle pivotally associated with the wall forming the respective chambers, means pivotally associating the pivoted end of the handle with the clevis and manually operated dogs fixed to the wall and clevis respectively and being associated with the ratchet wheel as and for the purpose specified.

1,475,058. LOCKSMITH'S VISE. THOMAS EDWARD ELZY, St. Louis, Mo. Filed Apr. 6, 1922. Serial No. 550,120. 2 Claims. (Cl. 81—17.)



2. A device of the character described comprising a supporting arm carrying a head, said head being formed with a bifurcation communicating with a partially cylindrical recess which merges into one end of the head, a block slidably mounted within the bifurcation toward and from the longitudinal axis of the cylindrical recess, a guide rod carried by the block and slidable through the closed side of the head, a spring on said rod normally urging the block away from the recess, and a pair of screws threaded through the closed end of the head and bearing against said block whereby to move the same into clamping engagement with an object within the recess, said screws being parallel with said guide rod and all being arranged at right angles to the longitudinal axis of the recess.

1,475,059. TOY. ALVIN LEONARD ERICKSON, Waterfall, Territory of Alaska. Filed Aug. 15, 1922. Serial No. 581,987. 2 Claims. (Cl. 208—165.)



1. A toy vehicle comprising a longitudinal body, a pair of wheels movably supporting the body adjacent to the forward end of the latter, a tail piece, a wheel movably supporting the tail piece, complementary hinge sections secured to the adjacent ends of the body and the tail piece, a vertical pintle connecting the hinge sections and being secured to the hinge section secured to the tail piece, said pintle being provided at one end with a laterally extending knuckle, a lever pivotally supported intermediately upon the body for movement about a horizontal axis, and a connecting rod extending between the lower end of the lever and the outer end of the knuckle.

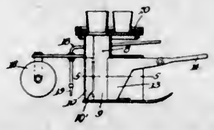
1,475,060. WELL DRILL. JOHN B. FENDER, Kaufman, Tex. Filed Feb. 15, 1922. Serial No. 536,745. 5 Claims. (Cl. 255—19.)

1. A well drilling apparatus comprising in combination with a well casing, a drill casing positioned within the well casing, means for supporting an air hammer within the drill casing, a cutting blade having connection with the air hammer, means for moving the cutting blade laterally to extend to a portion thereof beyond the well



casing, and a discharge pipe having one end disposed at the base of the drill casing to discharge material dislodged by the blade.

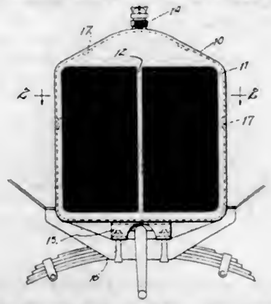
1,475,061. TRANSPLANTER. ULYSSES B. FRAWLEY, Ogeechee, Ga. Filed Sept. 3, 1921. Serial No. 498,308. 1 Claim. (Cl. 111—2.)



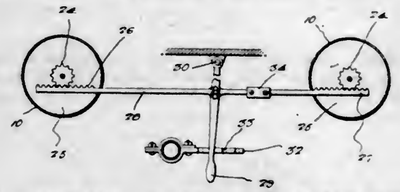
A transplanter of the class described comprising a wheeled frame, a plow arranged adjacent the front end of the frame and supported thereby, a gear carried by the axle of the wheels, a second gear designed to be rotated by the first mentioned gear and supported by a portion of the frame, a crank shaft adapted to be operated by the second gear, a boot supported by the frame and arranged adjacent the rear end thereof with its bottom portion adapted to ride in a furrow provided by the plow, a housing included in the boot having an opened front, a plunger adapted to reciprocate through the opening and within the housing, a pitman connecting the plunger with the crank shaft to impart such reciprocation thereto, spring pressed walls hingedly secured to the rear end of the housing and adapted to be opened by the plunger, and means for supplying water to the furrow and a pair of disks arranged in the rear of the boot as and for the purpose specified.

1,475,062. RADIATOR PROTECTOR. MURL E. FULK, Union Furnace, Ohio. Filed Oct. 18, 1922. Serial No. 595,327. 2 Claims. (Cl. 180—68.)

1. A combined protector and mud shield for automobile radiators, comprising a frame designed to embrace the radiator, a sheet of screening material supported by the frame directly in advance of the radiator, means arranged at the top and bottom of said frame and associating the latter with the radiator, and lugs carried by the frame and arranged to contact the radiator to space the frame therefrom for proper aeration.

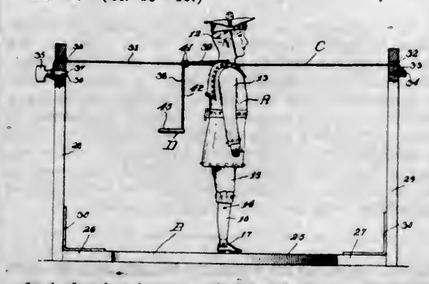


1,475,063. DIRECTION SIGNAL. FRANK J. GEPPERT, East St. Louis, Ill. Filed Mar. 7, 1922. Serial No. 541,874. 2 Claims. (Cl. 116—46.)



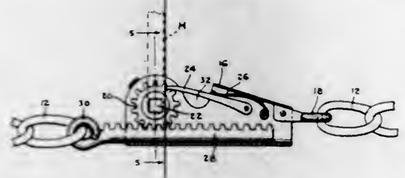
1. In a device of the class described, a casing having openings opposite each other, an element mounted to rotate in the casing and carrying warnings, said warnings being arranged in two groups, those of each group being visible through one of the openings in the casing, and means for imparting rotation to said elementa within the casing, a second casing similarly constructed and a rotatable element therein, carrying warnings, and means for imparting rotation to the elements within the second casing, the signals of each group appearing in the opposite order of succession, from left to right, to those of the other group of the same rotatable element, and the rotatable elements of two signals, on opposite sides of a vehicle, moving in opposite directions with reference to the vehicle and in the same direction with reference to each other.

1,475,064. DANCING DOLL. ROSE GAULE, Peosta, Iowa. Filed Apr. 25, 1921. Serial No. 464,125. 5 Claims. (Cl. 46—40.)



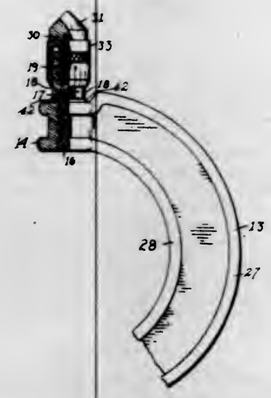
1. A dancing toy comprising a base, supporting posts carried by the base, a string carried by the posts, a dancing figure mounted upon the string, and a finger piece carried by the figure and engaging the string at a point spaced from the figure.

1,475,065. DEVICE FOR SECURING AND TIGHTENING ANTISKID CHAINS. AUGUST GILBERTSON, Minneapolis, Minn. Filed Dec. 14, 1922. Serial No. 606,936. 1 Claim. (Cl. 24—68.)



A device for securing and tightening antiskid chains comprising a casing, means at one end of said casing for attachment to one end of the chain, a pinion rotatably mounted in said casing, means carried by said casing for preventing said pinion from rotating backwardly, a rack adapted to slide in said casing with its teeth in engagement with the teeth of said pinion, and means carried by the outer end of said rack for attachment to the other end of the chain, said pinion having provision by means of which it may be rotated.

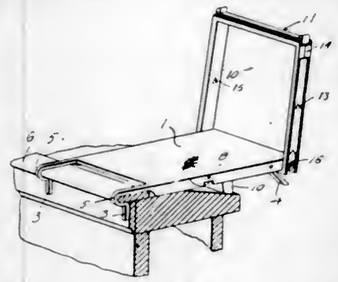
1,475,066. MICROMETER GAUGE. ANTHONY T. GREGORY, Grove City, Pa. Filed Feb. 5, 1921. Serial No. 442,683. 4 Claims. (Cl. 33—167.)



1. In a caliper gauge, a substantially U-shaped frame, a work engaging member carried by one end of the frame, a barrel carried by the opposite end of the frame, said barrel being interiorly threaded, a screw threaded into engagement with said barrel threads and having a threaded reduced outer end, a thimble perforated to receive the reduced outer end of the screw, the barrel and thimble having cooperating graduations, and a cap threaded onto the reduced outer end of the screw to hold the thimble upon the screw, the cap being located in alinement with the work engaging member.

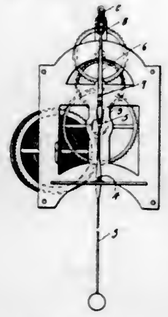
1,475,067. COMBINED IRONING-BOARD STAND AND WINDOW JACK OR SEAT. WILLIAM HAAS, West Hoboken, N. J. Filed Feb. 24, 1922. Serial No. 538,878. 4 Claims. (Cl. 304—24.)

1. In a device of the character specified, telescoping sections, one of the sections having its side members channeled and provided at one end with keepers and having intermediate stops and the telescoping section



being slidable in the channels and retained in place by means of the keepers and held in extended or closed position by means of the said stops.

1,475,068. ESCAPEMENT. PORTER HAMILTON, La Grange, Ky. Filed Dec. 5, 1922. Serial No. 605,049. 1 Claim. (Cl. 58—123.)



An escapement for a time movement, comprising a power driven arbor provided with a crank, a pendulum rod pivoted intermediate its ends, and a lever pivoted intermediate its ends and having one end in cooperative relation with the crank of the power driven arbor and having the opposite end in engagement with the pendulum rod whereby to effect an oscillatory movement thereof.

1,475,069. TRACTOR ATTACHMENT. JAMES P. JERGESEN, Buffalo, N. Y., assignor to Meldrum Motor Corporation, Buffalo, N. Y. Filed Aug. 29, 1922. Serial No. 584,993. 4 Claims. (Cl. 280—33.)



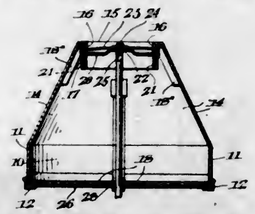
1. A power tractor provided with a frame constituting an attachment to the tractor and there rigidly supported so as to overhang the ground, a work supporting bolster carried by and forming part of the attachment, and a divided reach extending rearwardly from the tractor and foldable at the point of division about a horizontal pivot upwardly toward the tractor.

1,475,070. PAPER DOLL. JOHN F. JOHNSTON, Berkeley, Calif. Filed Aug. 17, 1921. Serial No. 492,969. 3 Claims. (Cl. 46—40.)



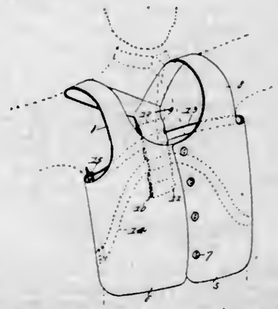
1. In a paper doll, a doll figure, a pair of spring clamps permanently secured to the back of said figure and extending forwardly over the respective shoulders of said figure and downwardly a short distance in front of said shoulders.

1,475,071. MANTLE SHADE. MILDRED ALICE LAIRD, Renown, Saskatchewan, Canada. Filed July 31, 1922. Serial No. 578,729. 2 Claims. (Cl. 240—108.)



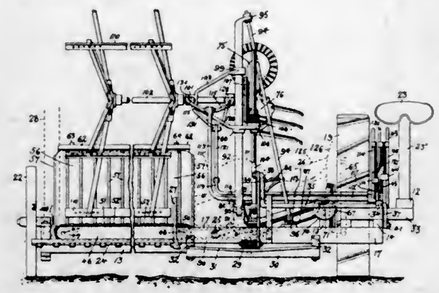
1. A shade of the character described comprising a frame tapered uwardly from the base to form a hollow top, a holder for the frame provided with extending legs adapted to fit the frame, a cross-piece for said holder formed with a central aperture therein, side openings in the base of the frame registering with one another and provided with spring hinged doors, means for closing the bottom of the frame comprising a split bottom member designed to be inserted separately through said side openings, and means for supporting said bottom member in position within the frame, and screen means provided with apertured securing means for the holder.

1,475,072. WAISTCOAT. RICHARD A. LANGERMAN, Louisville, Ky. Filed Feb. 13, 1923. Serial No. 618,864. 1 Claim. (Cl. 2—97.)



In a waistcoat, body embracing sections having their edges connected together at the front, shoulder sections extending upwardly and rearwardly from the front sections, an element to which the rear ends of the shoulder sections are secured, the said element being adapted to extend down the back of the wearer and having pockets arranged transversely therein, adjustable straps connected to the rear edges of the body embracing sections and adjustable in the several pockets of the depending portion, substantially as described.

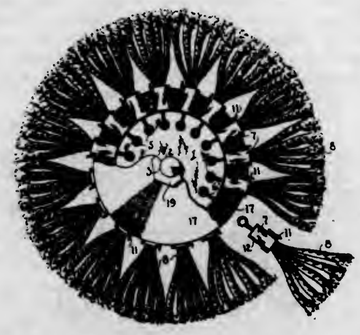
1,475,073. HARVESTER. CLAUDE H. MCCLURE, Oaktown, Ind. Filed Sept. 2, 1921. Serial No. 497,961. 9 Claims. (Cl. 56—181.)



1. In an apparatus of the class described, a supporting frame, a sickle device carried by said frame, a relatively narrow carrier belt supported in said frame rearwardly of said sickle device, and a relatively wide carrier belt supported in said frame rearwardly of the narrower carrier belt and inclined upwardly and rearwardly.

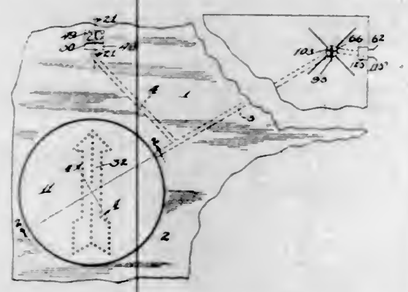
7. In an apparatus of the class described, a supporting frame, a standard swinging upon said frame, a bracket device slidable on said standard, a reel including a shaft supported by said bracket, rock shafts supported upon said frame and upturned at their inner ends, an operating lever for each of said rock shafts, an arm device extending forwardly of said reel shaft and coupled to the upturned end of one of the rock shafts, an arm device extending downwardly from said reel shaft, and a link member coupling the downwardly directed arm device to the upturned end of the other of the rock shafts.

1,475,074. REVOLVING BRUSH. MARK MCLAUGHLIN, Wilmington, Del. Filed Feb. 23, 1922. Serial No. 538,591. 7 Claims. (Cl. 15—183.)



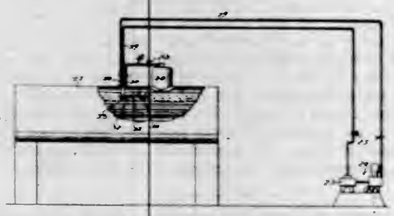
1. In a brush, the combination with a member having openings leading out to the periphery thereof, of holders fitted in said openings and removable therefrom, said holders projecting from said member and bearing against the outer face thereof, brush material fitted within each holder, and means applied to opposite sides of said member to cover said openings and bear against the sides of said holders.

1,475,075. LANDING INDICATOR FOR AIRPLANES. ALFRED JOHN MACT, Franklin, Pa. Filed July 10, 1918. Serial No. 244,311. 29 Claims. (Cl. 244—2.)



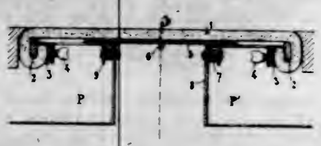
2. In a wind indicating device, an arrow, a series of signals along said arrow at various distances from the point thereof, means for positioning the arrow in accordance with the direction of the wind, wind controlled means for selecting that one of said signals whose distance from the point of the arrow corresponds to the velocity of the wind, and means for operating the selected signal.

1,475,076. AUTOMATIC BOILER FEEDER. HERMAN E. MALAIER and FRANK R. CLARK, Jr., Rock Mart, Ga. Filed Dec. 6, 1921. Serial No. 520,232. 2 Claims. (Cl. 137—101.)



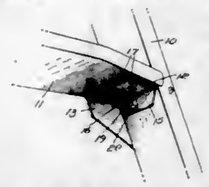
1. A feed water apparatus for boilers having a three-way nozzle provided with a plurality of steam channels for respective connection with the boiler steam dome and the steam chest of the feed water pump, and another channel in communication with the pump and provided with a water outlet at the inner end of the nozzle, and a float actuated valve for controlling said outlet and the communication between said steam channels.

1,475,077. JOINTS EXTENSIBLE AND RETRACTABLE IN ALL DIRECTIONS FOR MOVABLE PLATFORMS WITHOUT INTERRUPTION OF CONTINUITY. HENRI MANGIN, Armentieres, France. Filed Mar. 26, 1923. Serial No. 627,914. 4 Claims. (Cl. 104—25.)



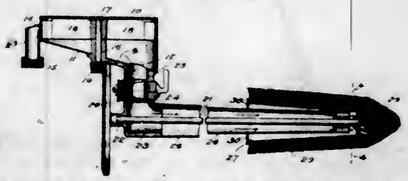
1. In joints for movable platforms between coupled cars, a band of india rubber, means to fasten the same by its extremities to the two consecutive cars, above the space between the platforms.

1,475,078. LADDER-STEP BRACKET. GUY A. MESSACAR, Ionia, Mich. Filed Nov. 19, 1921. Serial No. 516,376. 2 Claims. (Cl. 228—58.)



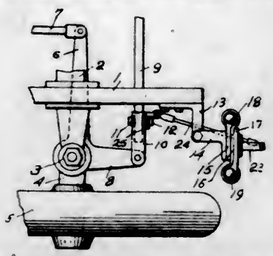
1. A bracket for the purpose set forth comprising a rectangular body portion adapted to be positioned below and secured to the step of a ladder, a flange depending from one side of and disposed lengthwise with respect to the body portion and adapted to be secured to the inner side face of the ladder side, and an arm depending from the outer end of said body portion and providing a combined coupling and brace extension, said arm including a reduced upper portion and a lower portion having its upper part offset laterally with respect to the outer edge of said reduced portion and adapted to be secured in proximity to its forward edge to the rear edge of the ladder side, said reduced portion having its outer edge spaced from the inner side face of the ladder side.

1,475,079. ROTARY BRUSH. FRED WILLIAM MILLER, Beatrice, Nebr. Filed June 8, 1920. Serial No. 387,283. 7 Claims. (Cl. 15—24.)



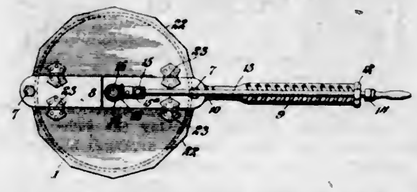
6. A rotary brush comprising a water turbine, a housing for the same so shaped as to permit revolving of the turbine in an air chamber, a casing connected to the housing, a discharge port or outlet in the housing leading to the casing, a blade rising above the discharge port at an acute angle to the housing bottom for directing the water down through said port into the casing, a fountain brush rotatably mounted on the casing, and means whereby the turbine may revolve the brush.

1,475,080. AUTOMATIC DIRIGIBLE LAMP SUPPORT. JOSHUA B. NICHOLSON, Washington, D. C. Filed Oct. 3, 1922. Serial No. 592,077. 1 Claim. (Cl. 240—62.)



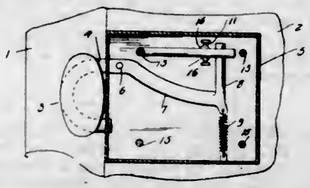
In an automatic dirigible lamp support for motor vehicles, the combination with an upright adapted to carry the lamp and having a forwardly extending arm on its lower end, a vertical double spring hinge carrying said upright, a bracket secured to the frame of the machine and carrying the hinge, a second bracket having its lower end flattened and provided with an opening adapted to fit over the bolt securing the tie rod in the socket attached to the stub axle and adapted to be secured on said bolt by the nut carried by it, a rod having sockets at its ends, the other end of the second bracket being connected with one socket of the connecting rod and the second socket being connected with the forwardly extending arm on the upright carrying the lamp.

1,475,081. POP-CORN KETTLE. ROBERT D. PARKS, Lohrville, Iowa, assignor to W-M-P Manufacturing Co., Lohrville, Iowa, a Corporation of Iowa. Filed Feb. 3, 1919. Serial No. 274,687. 3 Claims. (Cl. 259—107.)



1. A popping kettle for corn poppers having a closed top and an imperforate body portion having an approximately semi-spherical bottom with rounded sides, the rounded portion of the bottom and sides embracing fully one-third the height of the kettle, the bottom being provided with a centralized step bearing rising slightly from the bottom, and a stirrer mounted on the step bearing to rotate about an upright axis and held by said bearing close to the bottom without touching it, said stirrer comprising a shaft extending above the top of the kettle and having at its lower end a hub adapted to fit the step bearing, and arms extending from the hub and curving lengthwise in conformity with the curvature of the bottom of the kettle and formed of wire of rounded cross-section, said arms extending up the sides fully one-third the height of the kettle.

1,475,082. LOCK. JOSEPH S. PIGA, Owendale, Mich. Filed July 20, 1922. Serial No. 576,320. 2 Claims. (Cl. 292—129.)



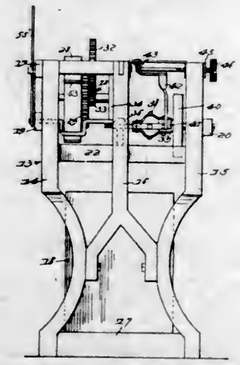
1. A lock of the character specified comprising a keeper, a casing, a member pivoted within the casing and having an end portion projecting beyond the casing and constituting a bow and having the other end portion extended within the casing to form an arm and a lateral extension, a spring normally holding the bow in open position, and a lock bolt pivoted within the casing and having a latch at one end to engage the lateral extension of the pivoted member and hold the bow in locked engagement with the keeper, and having the other end appearing opposite an opening in the casing to be pressed upon to release the said pivoted member.

1,475,083. MOP WRINGER. WILLIAM M. POETNER, Freeport, Ill. Filed Aug. 17, 1922. Serial No. 582,456. 2 Claims. (Cl. 15—120.)

1. A mop wringer comprising a frame, spaced aligned cylindrical elements carried by said frame, a wringer shaft having one end adapted to engage a mop and provided with disks disposed in the respective cylindrical elements of the frame and adapted to move longitudinally and rotatably therein, and a slide carried by the frame and having spiral engagement with the wringer shaft to effect both a longitudinal and a rotary movement thereof.

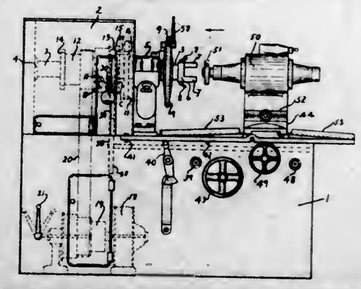


1,475,084. CHURN. PAUL PUTNAM, White Plains, Ky. Filed July 14, 1920. Serial No. 396,068. 2 Claims. (Cl. 185—37.)



1. A power mechanism having a revoluble member by which motion is communicated, the said member being provided with spaced peripheral ears throughout its circumference, a rock shaft having a looped crank arm arranged in transverse spanning relation with the periphery of said member for engagement with the ears thereof, an operating lever for said rock shaft, and means for securing said lever in adjusted positions.

1,475,085. GRINDING MACHINE. HARRY HAMILTON RICHARDSON, Hamilton, Ontario, Canada, assignor to The Union Drawn Steel Company Limited, Hamilton, Ontario, Canada. Filed July 10, 1922. Serial No. 574,072. 10 Claims. (Cl. 51—50.)

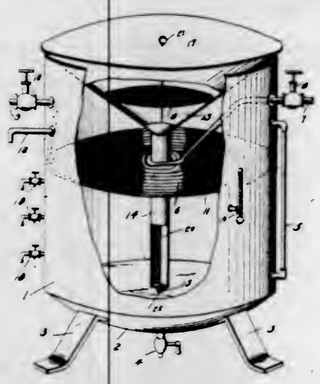


1. In a grinding machine, the combination with a work holding head and a grinding wheel rotatable about a horizontal axis, of means for selectively oscillating or rotating the head about a horizontal axis.

2. In a grinding machine, the combination with a work holding head and a grinding wheel rotatable about a hori-

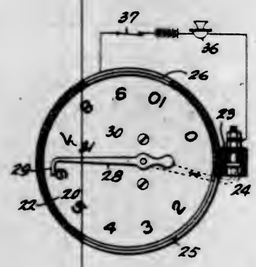
zontal axis, of means for oscillating said head about a horizontal axis, and means for selectively feeding the grinding wheel either parallel with or transversely of the axis of oscillation of the head.

1,475,086. OIL RECLAIMER AND PURIFIER. HENRY W. ROSE, Victoria, Tex. Filed Feb. 4, 1922. Serial No. 534,141. 1 Claim. (Cl. 210—48.)



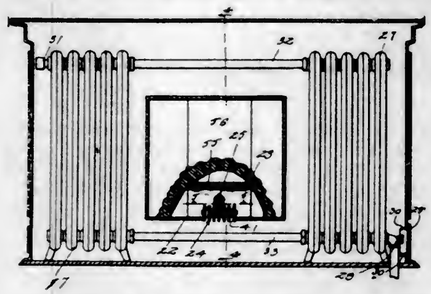
An oil purifier comprising a receptacle, a heating coil within and spanning said receptacle, a removable funnel having its flared part adapted to rest on the upper edge of said receptacle, a pipe depending from the funnel and through the coil with the discharge end thereof below the coil, a screen within the funnel, an agitator rod passing through said funnel and having a stop at the lower end thereof below the pipe, a cover for the funnel through which said rod passes, a screen within the receptacle and supported by said coil, outlet means from the receptacle above the second mentioned screen, whereby as the oil level rises the oil will pass through the second mentioned screen and then to said outlet means.

1,475,087. FLOAT-OPERATED SWITCH. SOLOMON A. SHAPIRO, Montreal, Quebec, Canada. Filed July 15, 1921. Serial No. 485,074. 2 Claims. (Cl. 200—84.)



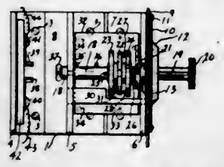
1. In a gauge, a dial casing, a graduated dial therein, a needle mounted eccentrically of said casing and oscillatable therein to cooperate with the dial, the casing being apertured in its circumference for the egress and ingress of said needle, and an electric contact disposed externally of the casing in position to be engaged by said needle on the egress thereof from the casing.

1,475,088. FIREPLACE HEATER. LOUISE M. SPECHT and JOHN A. SHIMEK, Chicago, Ill. Filed Mar. 31, 1921. Serial No. 457,224. 5 Claims. (Cl. 219—34.)



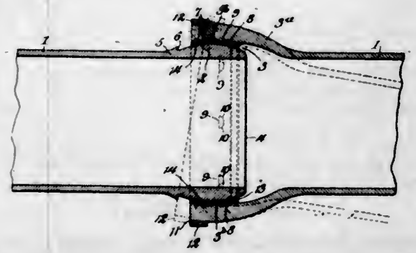
1. A fire place heater having an electrical heating unit, a refractory housing enclosing the same, and a radiator manifold having elements arranged in the field of radiation of the unit and heated thereby.

1,475,089. COMBINATION LOCK. THOMAS ISAAC SUMMERS, Hamilton, Ontario, Canada. Filed Oct. 11, 1922. Serial No. 593,781. 10 Claims. (Cl. 70—53.)



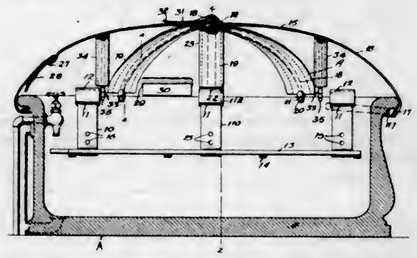
1. A combination lock comprising a frame, a spindle slidably and rotatably mounted therein, a plurality of disks carried by the spindle, means for selectively rotating the disks when the spindle is at one extreme end of its stroke, means normally preventing movement of the spindle from this end position, means co-acting with the disks whereby sliding of the spindle is permitted when the disks are rotated to a predetermined relative angular disposition to each other, and means preventing rotation of the disks when the spindle is in its opposite extreme end position.

1,475,090. FLEXIBLE PIPE JOINT. WALTER HERRON TAYLOR, 3d, Norfolk, Va., assignor to Lynchburg Foundry Company, Lynchburg, Va., a Corporation of Virginia. Filed June 19, 1922. Serial No. 569,215. 9 Claims. (Cl. 285—115.)



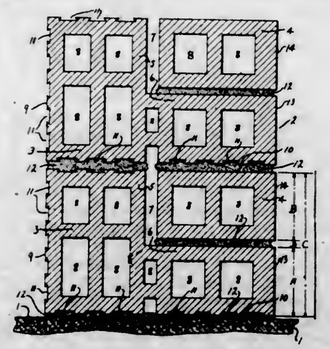
1. In a flexible pipe joint, pipes each having a ball on one end and socket on the other, the socket of one pipe receiving the ball of the next adjacent pipe, with a space between the ball and socket, one of the elements being provided with a plurality of spaced lugs located at one side of the vertical center of the ball end and bearing against the other element, and lead packing filling the space between the ball and socket and between and around said lugs, whereby one pipe may be locked relatively to the other pipe after the joint has been packed without affecting the joint.

1,475,091. VAPOR BATH. JOSEPH THOMAS, Aberdeen, Wash. Filed Mar. 29, 1923. Serial No. 628,585. 2 Claims. (Cl. 4—160.)



1. A device for use with vapor baths comprising approximately U-shaped hangers having out-turned ends adapted to rest on a bathtub at the top, a longitudinally disposed rest supported on said hangers, a canopy adapted to be disposed over the bathtub, means extending about said canopy at the edge to engage the bathtub, stiffener means on the canopy adapted to rest on the bathtub, and additional stiffener means on the canopy adapted to engage one of said hangers.

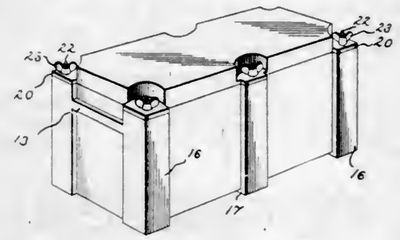
1,475,092. BUILDING TILE. CHARLES HENERY TOFFELMEYER, Hamilton, Ontario, Canada, assignor of one-half to Sidney Smith Curtis, Hamilton, Canada. Filed Sept. 25, 1922. Serial No. 590,420. 1 Claim. (Cl. 72—41.)



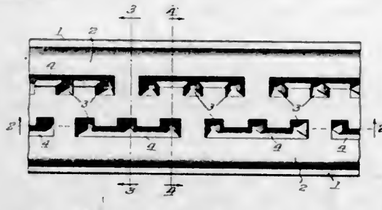
A wall structure comprising main tiles and a filler tile associated with each main tile, each filler tile situated within a recess in a main tile, the tiles being so formed that the cross section of each pair of assembled main and filler tiles is rectangular.

1,475,093. STORAGE CRATE CASE. ALBERT BRUCE TUCKER, Birmingham, Ala. Filed Nov. 6, 1922. Serial No. 599,352. 2 Claims. (Cl. 217—56.)

1. A device of the character described comprising a casing open at its top and having its upper edge formed with a continuous channel, a cover fitting upon the casing and having its underside formed with a continuous flange seating within said channel, and means for clamping the cover onto the casing, consisting of upwardly extending bolts carried by the upper edge of the casing, ears on the cover formed with holes receiving said bolts, and wing nuts on said bolts.

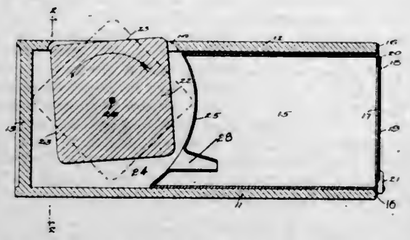


1,475,094. SOLID TIRE. JOHN C. TUTTLE, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 21, 1920. Serial No. 432,287. 7 Claims. (Cl. 152—2.)



4. In a resilient tire construction, a series of suction cups arranged in parallel rows about the tread of said tire, the cups of different rows being arranged in staggered relation, and short grooves connecting a plurality of cups circumferentially of the tire, these grooves being of less depth than the cups and arranged so as to break joint transversely of the tire.

1,475,095. FLYTRAP. HENRI VAN HEES, Madison, N. J. Filed Aug. 31, 1922. Serial No. 585,440. 1 Claim. (Cl. 43—11.)



A fly trap comprising a boxlike body having an open end and a closed end, said body having a rectangular opening in its top adjacent the closed end, a receptacle insertable into the open end having inwardly projecting conical passages in its inner end and a mesh panel in its outer end, said inner end of the receptacle being substantially in alignment with one edge of the opening in the top of the body and defining in conjunction with the closed end and walls a trapping chamber, a trapping member of rectangular configuration rotatably mounted in said trapping chamber, said trapping mem-

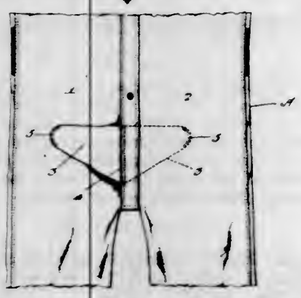
ber being of substantially the same cross-sectional area as the opening in the top of the body and having its uppermost face in alignment with the top of the body and its lowermost face in alignment with the conical passages in the receptacle whereby light enters the trapping chamber only through said conical passages at the bottom of the trapping chamber.

1,475,096. COMPRESSION INDICATOR. JOHN WILLIAM VAN WART, South Nyack, N. Y. Filed July 16, 1923. Serial No. 651,996. 6 Claims. (Cl. 116—114.)



6. A compression indicator comprising a tube, heads for the opposite ends of the tube provided with axial perforations and differentiated threaded nipples, a follower slidably located within the tube, a stem extending through the tube and the axial perforations and beyond each of the heads, a follower rigidly secured to the middle of said stem and slidable in the tube, springs interposed between opposite ends of the follower and heads, tending to hold said follower normally yieldingly midway the tube, and a valve carried by the follower adapted to relieve pressure upon the follower.

1,475,097. UNDERWEAR. CHARLES N. WATSON, St. Joseph, Mo., assignor of one-half to William H. Clark, St. Joseph, Mo. Filed Dec. 17, 1921. Serial No. 523,133. 1 Claim. (Cl. 2—144.)



A garment of the character described having its front divided into left and right sections having their inner edges overlapped, flaps secured to the garment at the opposite ends only and being designed smaller at one end than the other, one of said flaps has its small end secured to the outside of the left section and its large end secured to the inner edge of the right section above the crotch, the other of said flaps being arranged parallel with the first mentioned flap and designed similar in size and structure and having its small end secured to the inside of the right section and its large end secured to the outer edge of the left section.

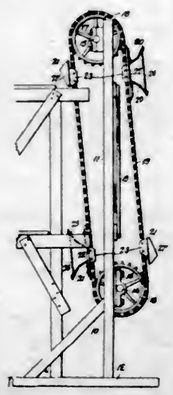
1,475,098. AUTOMOBILE RIM. RUFUS W. WELTY, San Francisco, Calif. Filed Sept. 9, 1922. Serial No. 587,122. 2 Claims. (Cl. 301—31.)

2. A device of the character described, a rim section having champered ends, said champers diverging inwardly, a T shaped slot formed in each end of said rim, bevel portions formed in said T shaped slot, a removable section having champered ends and adapted to engage the champered ends of said rim, a T shaped projection formed in each end of said section, bevel portions formed on said T shaped projections, said bevel sections being adapted to engage the bevel portion of said T shaped slots, means for locking said removable section against accidental displacement, a lug secured to one end of said rim section,



a lug secured to one end of said removable section at a point adjacent said first mentioned lug, said second mentioned lugs having staggered openings formed therein, substantially as and for the purpose specified.

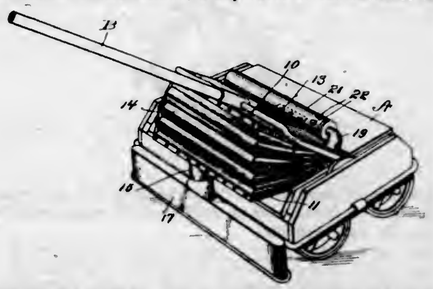
1,475,099. CONVEYER. GEORGE H. WILLIS, Detroit, Mich. Filed July 27, 1920. Serial No. 399,229. 1 Claim. (Cl. 198—154.)



The combination with a conveyer including endless chains mounted for rotation, of a plurality of carriers carried by said chains and being designed to convey building material, said carriers comprising brackets, ears arranged in said brackets mid-way between their ends and being secured to said chains, straight walls secured to said brackets in contacting engagement therewith, one of said walls being arranged on each side of the ears, arms arranged at diverging inclinations and formed on the adjacent ends of the straight walls, an extension formed in each inclined arm and being inclined in the same direction as the inclined arms, but to a greater degree and a brace rod having inclined ends secured to the ends of the respective extensions.

1,475,100. CARPET-SWEEPER ATTACHMENT. RAGNAR A. W. WILNER, Long Island City, N. Y. Filed Apr. 17, 1922. Serial No. 553,460. 1 Claim. (Cl. 15—17.)

A vacuum cleaner attachment for sweepers consisting of a bellows having a movable leaf carrying a hinge adapted to be secured upon the top of a conventional carpet sweeper, a spring normally tending to expand the bellows, the movable leaf of the bellows being designed for engagement by the pivoted handle of the carpet sweeper during movement of the sweeper whereby to compress the bellows, an inlet nozzle of elongated formation designed to engage the floor at one edge of the carpet sweeper, a pipe supporting said nozzle and leading into the bottom of the bellows, a flap valve at the entrance of



said pipe into the bellows, an outlet pipe on the movable leaf of the bllows, a flap valve controlling passage of air into said outlet pipe, and a perforated housing surrounding said outlet pipe and designed to support a dust collector.

1,475,101. BRUSH FOR SHAVING, MASSAGING, OR OTHER TOILET PURPOSES. ROBERT MORSE WITHYCOMBE, Sydney, New South Wales, Australia. Filed May 9, 1922. Serial No. 559,544. 2 Claims. (Cl. 15—188.)



1. A shaving brush or the like, formed of a strip of vulcanized rubber wound upon itself under tension, said strip having slits at one of its edges forming a plurality of filaments, said filaments being of reduced and substantially uniform cross-section for a portion of their length adjacent their free ends whereby, when said strip is wound under tension, liquid holding pockets are formed between adjacent filaments.

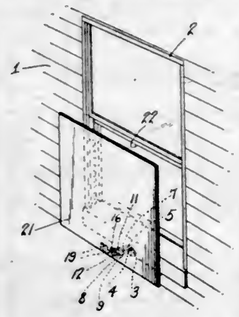
1,475,102. TOOTHBRUSH. ROBERT MORSE WITHYCOMBE, Sydney, New South Wales, Australia. Filed June 6, 1922. Serial No. 566,284. 2 Claims. (Cl. 15—225.)



1. A tooth or massage brush comprising a handle, having a pair of spaced lugs thereon, a strip of rubber serrated on one edge and wound upon itself under tension and sprung upon said lugs.

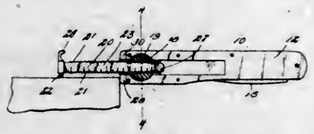
1,475,103. VENTILATING BLIND. JOE H. WOOD, Wadesboro, La. Filed Feb. 27, 1922. Serial No. 539,509. 1 Claim. (Cl. 98—31.)

The combination, in a window attachment, for the purpose set forth, of a bracket secured to a building adjacent to a window casing, an arm pivotally secured to the bracket, binding means between the arm and bracket, a socket slidable on the arm, binding means between the socket and arm, said socket carrying an upwardly projected member which terminates in a longitudinal portion, an arm pivotally supported on said longitudinal portion, binding means therefor, a flat plate comprising a blind,



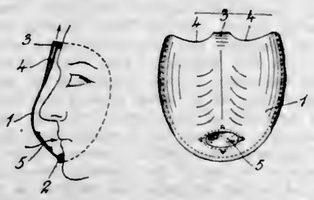
a hinged connection between the blind and the last mentioned arm, and binding means between said hinged connection and said arm.

1,475,104. COMBINATION TOOL. JAMES H. YORK, Etowah, Tenn. Filed Nov. 22, 1920. Serial No. 425,871. 2 Claims. (Cl. 33—42.)



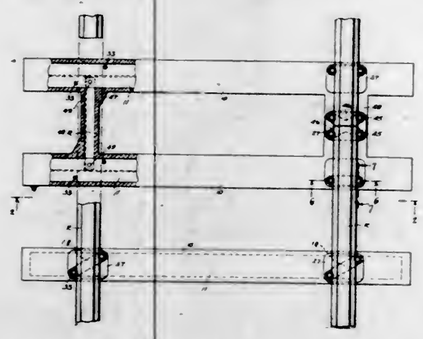
1. A device of the character described comprising a handle formed in one end with a longitudinal slot intersected by a spherical recess opening out through the sides of the handle, a spherical nut member rotatably positioned within said spherical recess, an extension bar slidable within said longitudinal recess and threaded through said nut member, and a marking point formed on one side of said extension bar at the free end thereof, one side of the extension being graduated.

1,475,105. BREATH DEFLECTOR. NIELS WALTERSEN AASEN, Christiania, Norway. Filed May 25, 1923. Serial No. 641,467. 3 Claims. (Cl. 128—139.)



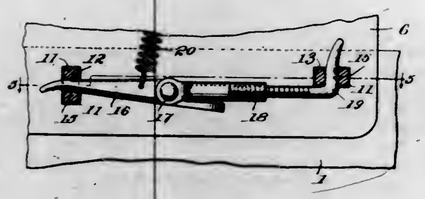
3. A somniferous device, comprising a mask adapted to be secured to the face and extending substantially from the chin to the forehead, a rim of resilient material formed around the sides and bottom of said mask for providing an air-tight fit against the cheeks and chin, a bridge at the upper portion of the mask for spacing said upper portion from the forehead and an inturned portion dividing the same into two passages, and a valve in the lower portion of the mask adapted to open upon inhalation and close against exhalation, whereby when said mask is adjusted the relatively warm exhaled air will be confined and directed upwardly past each eye and the adjoining parts of the forehead.

1,475,106. RAILWAY TIE AND RAIL FASTENING. JOSEPH FRANCIS BALME, Jr., Boston, Mass. Filed Jan. 10, 1923. Serial No. 611,786. 6 Claims. (Cl. 238—42.)



1. A rail fastener comprising in combination with a rail tie having a reinforcing bar embedded therein, a fastener plate having spaced hollow depending anchoring members embedded in the upper face of the tie, and clamping bolts extended through said anchoring member and engaging the base flange of the rails and the reinforcing bar.

1,475,107. SHARE ATTACHMENT. MICHAEL JAMES COONEY, Irma, Alberta, Canada. Filed July 10, 1922. Serial No. 573,844. 1 Claim. (Cl. 97—124.)



In a means for detachably securing a mold-board to a plow share, the combination with a share having a point whose land side is provided with a downwardly rounded notch, said share having spaced bolts each comprising adjustably associated members the outer elements of which being headed, and the heads thereof being provided with openings, and said heads being arranged at a right angle with respect to each other, a mold-board resting on the share, a frog connecting the mold-board and land-side thereof, a headed stud on the land-side received in the notch of the share point, said frog having spaced elongated openings which receive therethrough the heads of the adjustable bolts, a tapered finger received in the opening in one of the heads of the bolt, an adjustable rod having an angle end received in the opening of the other bolt, a joint connection between the rod and finger, and spring means between the finger and frog normally holding the finger in longitudinal alignment with the rod and preventing the breaking of the joint therebetween.

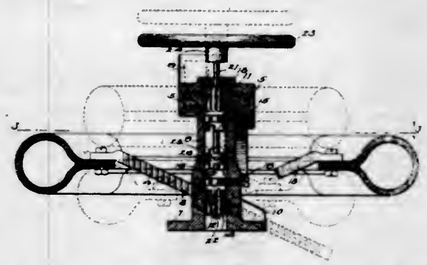
1,475,108. AUTOMOBILE LIGHT AND LICENSE HOLDER. GEORGE CURRAN, Plymouth, Pa. Filed Apr. 4, 1923. Serial No. 629,919. 1 Claim. (Cl. 40—62.)

In a device of the character described, for use on vehicles, the combination of a lamp body open at both ends, a lens fitted in each of said open ends, said body having a sight opening in one side, card holding means on the interior of the body opposite the sight opening, a shutter slidably mounted in the body and operable from



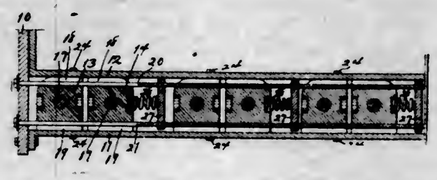
the exterior thereof to cover or uncover the sight opening, and an illuminated element mounted in the body below the sight opening.

1,475,109. COLLAPSIBLE CORE. PETER DE MATTIA, Clifton, N. J. Filed Sept. 7, 1922. Serial No. 586,696. 12 Claims. (Cl. 154—2.)



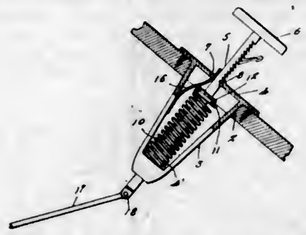
2. A collapsible core, comprising a plurality of segmental core sections arranged in diametrically opposed pairs, and means to move the pairs of said core sections in opposite directions radially and in an oblique direction with relation to the position of and plane of operative continuity of the core.

1,475,110. JOURNAL BEARING. CARL DUEKER, Cooper Township, Webster County, Iowa. Original application filed May 11, 1920, Serial No. 380,544. Divided and this application filed Apr. 4, 1921. Serial No. 458,214. 1 Claim. (Cl. 64—52.)



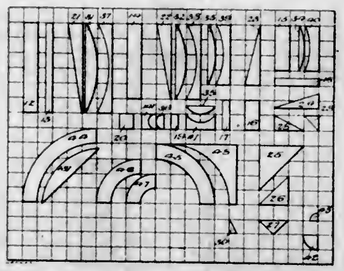
The combination with a suitable support, parallel bars carried by said support and threaded rods loosely mounted in said support and extending between and parallel with said bars, of a plurality of bearing members mounted side by side between said bars, some of said members being fixed, the others being movable in the same plane therewith, each bearing member being formed with grooves adapted to receive said rods loosely, and also formed with spring-end seats, bar washers formed with screw-seats threading on said rods, each washer being located between a movable and a fixed bearing member and spaced from both and adapted to be adjusted by said rods to and fro relative to said fixed member, and expansive coil springs interposed between and impinging at opposite ends on the washers and movable members, one end of each of said springs entering one of said seats.

1,475,111. ACCELERATOR. FREDERICK W. GRIES and AUGUST L. GRIES, Watervliet, N. Y. Filed Mar. 31, 1922. Serial No. 548,433. 1 Claim. (Cl. 74—81.)



An accelerator of the character described comprising a substantially V-shaped supported bracket, a top plate bridging the arms of the bracket and being provided with an opening centrally disposed therethrough, a bushing plate formed on the lower end of the bracket, a headed stem passing through the plates for a slidable movement and being provided with a plurality of notches arranged adjacent its upper end, means extending in the opening on the top plate and arranged in the path of the notches for operative engagement therewith, a pair of pivotally associated collars arranged in superimposed relation, one of said collars being notched and received in a reduced portion of the stem, and a coil spring surrounding the stem and having its end convolutions engaging the adjacent collar and the bushing plate respectively for the purpose specified.

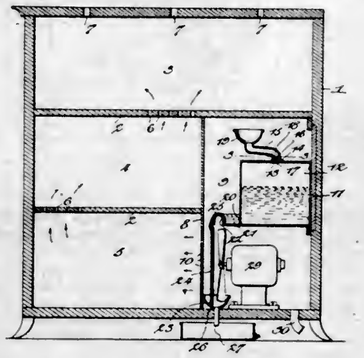
1,475,112. EDUCATIONAL TOY. WILLIAM NORMAN GRIMES, Aspinwall Borough, and JOSEPH MUENZMAY, Pittsburgh, Pa. Filed Oct. 18, 1922. Serial No. 595,358. 3 Claims. (Cl. 35—12.)



1. An educational toy including a board having a series of juxtaposed squares thereon, and a series of elements including a multiplicity of rectangular figures having a dimension representing a fraction of a unit square on the board as well as elements corresponding with the square in both dimensions, and elements corresponding in one dimension with the unit squares and having a second dimension representing a multiple of said squares; together with triangular elements of various sizes bearing a given relation to the squares on the board, plano-convex elements of various sizes bearing a given relation to the unit squares of a board, elements mating the convex edge of the plano-convex elements, and elements representing sectors of a hollow circle.

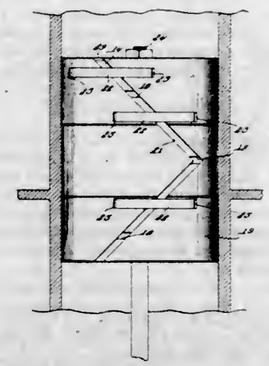
1,475,113. EVAPORATIVE REFRIGERATOR. JULIUS B. GROND, New York, N. Y. Filed Oct. 4, 1920. Serial No. 414,428. 1 Claim. (Cl. 45—133.)

In a refrigerator of the evaporative type, the combination with a casing having a perforated partition forming a separate chamber in which is supported a cooling unit, including an air circulating fan, of a reservoir arranged in the chamber and having its bottom extending horizontally beyond one side wall thereof, a semi-circular flange extending upwardly and thence downwardly from the outer edge of the extended bottom, said extended bottom and flange respectively defining a trough feed from the reservoir through the medium of the relatively



small openings formed therein adjacent the bottom thereof and said opening being arranged so as to maintain the same level of water in the trough until the reservoir is emptied, a wick having its upper end secured to and following the curvature of the flange and being vertically arranged between the fan and the perforated partition for the purpose specified.

1,475,114. PISTON. ARVID HAMELSTROM, Nekoma, N. Dak. Filed Feb. 20, 1922. Serial No. 538,068. 1 Claim. (Cl. 74—108.)

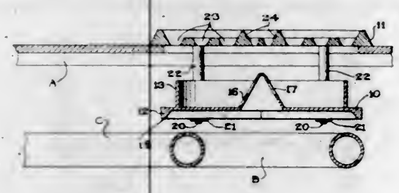


The combination with a piston, of an expansible sleeve split longitudinally in V-shaped formation, an interlocking engagement between the sleeve and piston, a contractible sleeve split longitudinally in V-shaped formation and having its adjacent end provided with circumferentially disposed oppositely arranged slots, strips extending across the V-shaped split contractible sleeve and entering said slots and an interlocking engagement between the expansible and contractible sleeves.

1,475,115. STOVE ATTACHMENT. MONT RAY HARDING, Steubenville, Ohio. Filed Aug. 21, 1922. Serial No. 583,403. 3 Claims. (Cl. 126—214.)

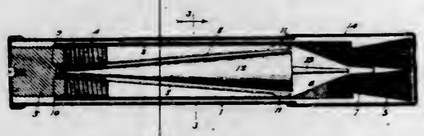
1. A gas stove attachment comprising a grid member resting upon the top of the stove and replacing the usual grid, and a base member supported below said grid above

the burner, and formed with openings for the passage of the flame, said



bottom being formed with openings and a plurality of hollow cones rising from the base and formed with openings for the passage of flame.

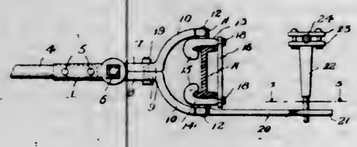
1,475,116. FOUNTAIN BRUSH. ELLERY HALE HARVEY, Lansdale, Pa. Filed Feb. 16, 1922. Serial No. 537,034. 9 Claims. (Cl. 221—60.)



1. A paste dispensing means for fountain brushes, and the like, comprising a hollow handle, a collapsible paste tube in the handle, said handle having a passage therein adapted to deliver paste from the tube, a pair of arms straddling the tube, means for moving the handle and arms relatively to one another, and means operated upon such movement for causing the arms to clamp the tube to expel the paste therefrom.

2. A paste dispensing means for fountain brushes, and the like, comprising a hollow handle, a collapsible paste tube in the handle, said handle having a passage therein adapted to deliver paste from the tube, a pair of arms straddling the tube, means for moving the arms longitudinally and means whereby longitudinal movement of the arms clamps the arms against the tube to expel the paste therefrom.

1,475,117. TOWING TONGUE. WILLIAM D. HENRY, Greenville, Ill. Filed Feb. 5, 1921. Serial No. 442,742. 3 Claims. (Cl. 280—33.55.)



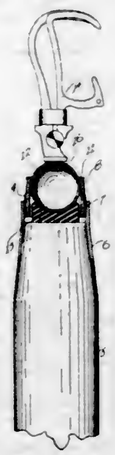
1. A towing tongue comprising a pair of arms, a pole pivotally connected to the arms, hook-shaped clamps pivotally connected to the arms, a clamp plate adjustably connected to said clamps, an extension on one of the arms provided with a slotted end, and a clamp device including a pin mounted in said slotted end.

1,475,118. CLEANING IMPLEMENT. GEORGE ARTHUR HOYEM, Lennep, Mont. Original application filed Sept. 28, 1921, Serial No. 503,904. Divided and this application filed May 9, 1923. Serial No. 637,832. 4 Claims. (Cl. 15—104.01.)



1. As a new article of manufacture, a cleaning implement for spark plugs including a handle portion, and a cleaning element offset from said handle portion, said element comprising an elongate bristle carrying member, said element being reversely bent on itself in its bristle carrying portion.

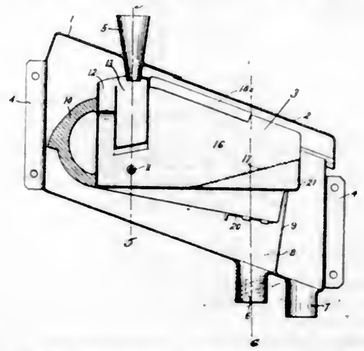
1,475,119. UNIVERSAL WRIST JOINT FOR ARTIFICIAL ARMS. ANTON HULSMANN and JULIUS C. GRIFFIN, San Francisco, Calif. Filed July 26, 1922. Serial No. 577,602. 1 Claim. (Cl. 3—12.)



In a device of the character described, the combination with an artificial arm, a ferrule secured to said arm and internally threaded, a ring externally threaded and adapted to be threadedly engaged with said ferrule, said ring being tapered toward its free end, a ball positioned in said ring and capable of rotation with respect to the end of said arm, means for securing a tool to said ball and a block of friction material mounted between said arm and said ball at a point within said ferrule and said ring, for the purpose of preventing free movement of said ball when said ring is in intimate engagement with said ball.

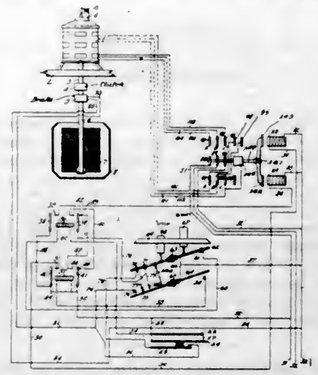
1,475,120. AUTOMATIC RAIN-WATER VALVE MECHANISM. GUSTAV JOHNSON, Mayville, N. Dak. Filed May 22, 1922. Serial No. 562,874. 4 Claims. (Cl. 137—9.)

1. An automatic valve mechanism for the purpose described comprising a casing having an intake in its upper rear portion and discharges leading from the forward portion of its bottom wall and also having a transverse partition disposed between said discharges and recessed, and a vertically swinging member pivoted in the casing and weighted at its rear end and having a rear upright conduit open at its upper end, an upright conduit arranged immediately in front of said rear conduit, the outlet extending rearwardly from the second-named upright conduit and under the rear upright conduit and provided with a screen bottom, a longitudinal



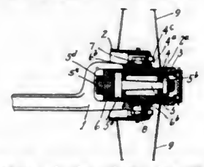
conduit open at its forward end and communicating at its rear end with the rear upright conduit, and a pocket arranged alongside of and under the longitudinal conduit and communication with the said screen bottom of said outlet; the said longitudinal conduit being adapted on gravitation of the forward portion of the vertically swinging member to discharge into the casing in front of said transverse partition in which the forward portion of the longitudinal conduit is vertically movable.

1,475,121. METHOD AND APPARATUS FOR CONTROLLING SUGAR CENTRIFUGALS. FRANK HOWARD JONES, Tuinucu, Cuba. Filed Dec. 28, 1920. Serial No. 433,632. 8 Claims. (Cl. 172—239.)



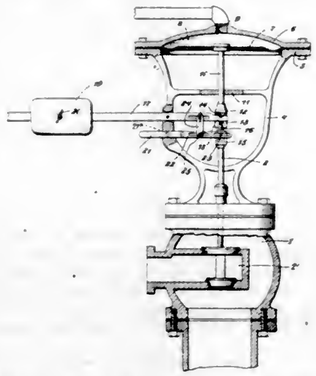
1. An automatic regulator for sugar centrifugals, which comprises a power line, an element to be energized and deenergized, one side of said element connected directly to the power line, a manually operated switch, a motor connected to the line, motor-controlled circuit closure connected to the other side of said element, said switch having two positions, a direct connection between the switch and said element in one position of the switch, a connection between the switch and the element through the motor-controlled circuit closure in the same position of the switch, and connections between the switch and the element through the motor-controlled circuit closure alone in the other position of the switch.

1,475,122. VEHICLE WHEEL-STEERING APPARATUS. HENRY W. KOEHLER, San Ysidro, Calif., assignor to Ralph W. Abbott, San Diego, Calif. Filed Aug. 2, 1921. Serial No. 489,186. 3 Claims. (Cl. 280—96.3.)



1. An apparatus of the class described, including a vehicle wheel hub provided with an annular recess in the inner side thereof, a separate inner hub member secured thereto and extending centrally in said recess, forming a spindle bearing and provided with an extended annular flange conforming to the interior of said wheel hub, a spindle on which said hub member is revolubly mounted, an annular sleeve secured to said spindle and extending over said inner hub member and an axle with bifurcated end pivotally mounted on said sleeve in alinement with the middle of the wheel, and a steering apparatus in connection with said sleeve.

1,475,123. VALVE-ACTUATING MEANS. FREDRICK E. LAIRD, Tarrytown, N. Y. Filed Dec. 2, 1919. Serial No. 341,948. 1 Claim. (Cl. 137—139.)

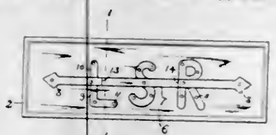


A governor of the character described comprising a frame, a pressure chamber formed at the upper end of the frame and being adapted to be connected with a fluid supply, a diaphragm disposed in said chamber, a rod depending from the diaphragm, a weighted pivoted rocking lever engaging said rod and being slotted adjacent its engaging end, a controlling valve arranged in a casing disposed at the lower end of the frame, a rod rising from the valve and being associated with the depending rod, a handle arranged for longitudinal movement through the frame and disposed in parallelism with the rocking lever, a rod pivotally secured to the inner end of the handle and being provided with a pair of spaced elongated openings, a pin projecting from the valve rod and engaging the adjacent slot of the last mentioned rod and a link adjustably connecting the slotted rod with the rocking lever as and for the purpose specified.

1,475,124. AUTOMOBILE SIGNAL. ABRAHAM S. LEVEY, Portland, Me. Filed Mar. 16, 1921. Serial No. 452,642. 1 Claim. (Cl. 177—329.)

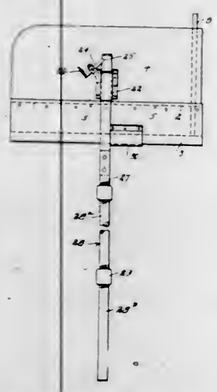
A signal for automobiles including a casing with a flat glass face, an elongated arrow with a head at each end and letters indicating movements of the automobile crossing said arrow, the arrow and letters being of thin material formed of open channels with U-shaped cross

section, the edges of the open channel resting adjacent to the glass face, the section of arrow opposite each letter



being separated from the adjacent section of the arrow by an intervening diaphragm and the three groups of electric lights within the letters and adjacent arrow sections to illuminate the interior of the three sections to form three separate groups.

1,475,125. HOD. ALBERT E. LONG, Pittsburgh, Pa. Filed Dec. 18, 1922. Serial No. 607,679. 4 Claims. (Cl. 72—134.)



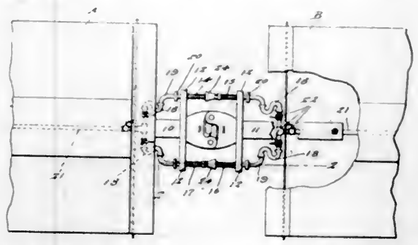
4. In a hod, two side boards, means for securing said boards together in angular relation, angle strips secured to the inner faces of the side boards, an end board fitting between the side boards and provided in its lateral edges with grooves receiving the inner flanges of said strips, and means for detachably securing said end board in position.

1,475,126. METALLIC WINDOW SCREEN. CHARLES B. MCBRIDE, Sebring, Ohio. Filed Aug. 19, 1922. Serial No. 582,972. 2 Claims. (Cl. 156—38.)



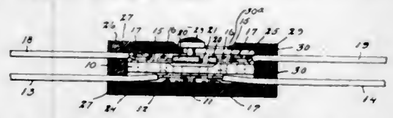
2. An adjustable metallic window screen comprising two slidable members each movable endwise relative to the other, each member made up of an outer sheet metal end bar with a hollow rectangular body and inner side by side flanges integral with said body, a reticulated section with its outer end interposed between the said flanges of the body, upper and lower sheet metal bars folded on themselves and receiving the upper and lower edges of the screen section and having their outer ends interposed between the said flanges, an inner sheet metal bar folded upon itself and receiving the inner end of the reticulated section and having end portions arranged in lapped relation to the inner ends of the upper and lower bars and terminating in hooks, means connecting the upper and lower bars and the reticulated section to the flanges of the outer end bar, and means connecting the inner end bar and the reticulated section to the inner end portions of the upper and lower bars; the hooks of one member straddling the upper and lower bars of the other member, and the connections defined being formed by threaded bolts and nuts whereby on impairment of the screen section the same can be readily removed and replaced with a new screen section.

1,475,127. COUPLER FOR RAILWAY CARS. THURMAN P. MCCOLLISTER, Silver City, N. Mex. Filed June 26, 1922. Serial No. 570,764. 1 Claim. (Cl. 285—58.)



An automatic air brake coupling for railway cars comprising pipe sections slidably supported by the car couplers, a funnel-shaped female member carried by one section of each pipe, a conical-shaped male member carried by the other section of each pipe and adapted to be received by the female member, coiled springs surrounding said pipe sections for holding said members operatively associated, a hose section coupled to each pipe section, a main air line communicating with said hose sections, a ferrule for each of said male and female members, said ferrules being arranged at the ends of said pipe sections and in part spaced from said members, and a gasket clamped between each member and the adjacent ferrule, said gaskets being arranged to provide a fluid tight connection between the pipe sections as described.

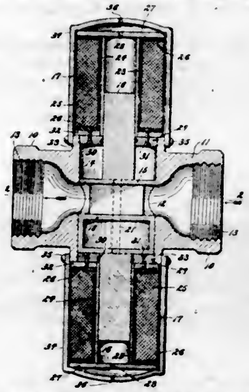
1,475,128. PENDANT-CORD SWITCH. BRANDO MARCH, Delmont, Pa. Filed Apr. 7, 1922. Serial No. 550,397. 4 Claims. (Cl. 200—163.)



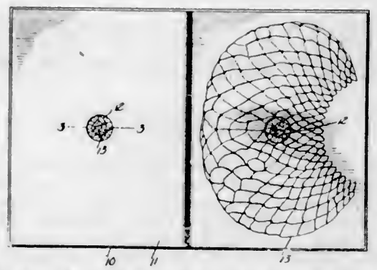
1. A switch of the character described comprising an elongated body of insulating material, a metallic plate secured upon one side of said body and carrying binding screws, a pair of metal plates secured upon the opposite side of the body and carrying binding screws, the inner ends of said pair of plates being formed at their side edges with overhanging flanges constituting guides, a plate member slidably engaging said guides and having an operating button, and an enclosing shell formed of separable sections disposed in encircling relation to said body and the parts thereon and formed with a longitudinal slot for the accommodation of said button.

1,475,129. ELECTRICAL VALVE. CHARLES B. MAYER, Philadelphia, Pa. Filed June 4, 1920. Serial No. 386,634. 1 Claim. (Cl. 137—139.)

A valve of the character described comprising a body portion having a centrally reduced longitudinal bore, a valve chamber arranged at right angles to the reduced portion of the bore and disposed on opposite sides thereof, a valve reduced adjacent one end and having a passageway formed through the reduced portion, a medial portion at the opposite end of the valve and being adapted to normally close the centrally reduced portion, a centrally apertured disk threadedly secured to the inner side of each end of the valve chamber, a packing ring secured in the inner periphery of each of the apertured disks, caps having an open end secured to the outer side of each end of the valve chamber and each being provided with a centrally disposed vent, a disk engaging the closed end of each cap and being provided with a vent registering with the vent in the cap, a tubular core arranged centrally in each cap and having its ends engaging the vented disk and the apertured disk respectively, oppositely disposed stems formed on the valve and being slidably mounted in the respective cores and means arranged between the cores and the side walls of the cap for energizing the stems as and for the purpose specified.



1,475,130. HAIR-NET CONTAINER. HENRY MEUER, New York, N. Y., assignor to Seidner & Hitzigrath, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 12, 1922. Serial No. 594,118. 2 Claims. (Cl. 256—46.)



1. A hair net container made in the form of a book including a cover and a plurality of thin single sheets, said sheets having openings extending therethrough which register with one another, said openings permitting hair nets positioned between the sheets to contact with one another.

1,475,131. GATE. ROBERT J. MITCHELL, Adair, Okla. Filed Sept. 15, 1922. Serial No. 588,448. 2 Claims. (Cl. 39—66.)



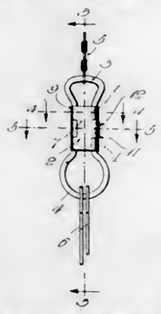
1. Two opposed gates each having their upper longitudinal bars inclined downwardly from the ends to the center thereof and having their rear ends provided with substantially V-shaped extensions, posts comprising spaced uprights between which the gates are arranged, and another post to the rear of each gate, a slotted guide supported between the intermediate and rear posts, and anti-frictional elements supported on the rear of each gate and received in each guide, a roller journaled through the front posts and on which the angle upper bar of the gates rest, levers journaled in bearings disposed transversely at the front of the gates and having angle arms thereon, flexible means on the gates connected to said arms, and means arranged to the sides and transversely of the gates susceptible to swinging movement and associated with means for imparting a swinging movement to the levers to slide the gates to bring the central portion of the upper bars thereof over the rollers to permit of the gates gravitating the remainder of their sliding movement, said gates being halted in such movement by contact with the rollers, and means on the roadbed between the gates for sustaining the gates against swinging movement.

1,475,132. LADY'S SAFETY POCKETBOOK. THOMAS L. MONAGHAN, New York, N. Y. Filed Aug. 28, 1922. Serial No. 584,726. 2 Claims. (Cl. 150—29.)



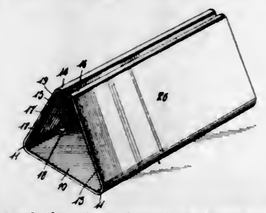
1. A safety pocketbook or hand bag including a body, a pair of pivotally connected frame jaws, springs for normally closing said frame jaws, and a bar pivoted to one frame jaw and having a notch in its free extremity engageable with the opposite frame jaw for holding said jaws open.

1,475,133. KEY HOLDER. CHAUNCEY ANIAS MURRAY, Superior, Wyo. Filed Apr. 19, 1923. Serial No. 633,205. 3 Claims. (Cl. 59—96.)



1. A key holder comprising a link having its ends separated to permit application of a key, and a guard coacting with said ends to prevent displacement of a key, said guard comprising a pair of spaced plates hinged to one stretch of the link.

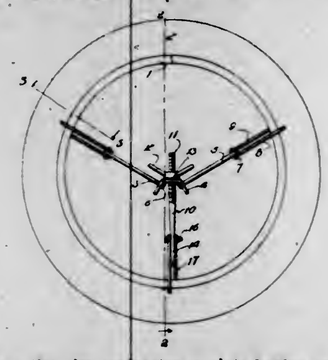
1,475,134. CARD HOLDER. RUSSELL E. OAKES, Waukesha, Wis. Filed Nov. 13, 1922. Serial No. 600,750. 4 Claims. (Cl. 40—149.)



1. A device of the class described formed of a single sheet of metal bent to form a relatively wide base, con-

verging sides and downwardly extending juxtapositioned vertical walls adjacent the apex of said sides forming a card receiving portion.

1,475,135. RIM TOOL. KUSUHIDE OKAMOTO, Honolulu, Territory of Hawaii. Filed Sept. 30, 1922. Serial No. 591,574. 2 Claims. (Cl. 157—1.)



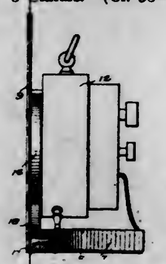
1. In a tire rim contractor, a plate having angle ends, rods slidable through the plate and through the angle ends thereof, said last mentioned rods having their inner ends headed, a pair of claws pivotally secured to the outer end of each of the rods, and the rod received centrally through the plate having means thereon for moving the same through the plate.

1,475,136. STEEL STAMP. AXEL EDVARD OLSON, Eskilstuna, Sweden. Filed July 3, 1922. Serial No. 572,668. 4 Claims. (Cl. 101—29.)



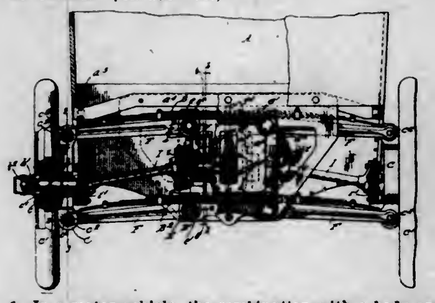
1. In a steel stamp, a holder a stamping element engaging one end of said holder, a neck constituting a striking element engaging the opposite end of the holder, and means detachably securing the neck and stamping element to the holder.

1,475,137. SUPPORT FOR ALARM CLOCKS. JULIUS OPPENHEIM, New York, N. Y. Filed Oct. 18, 1922. Serial No. 595,393. 3 Claims. (Cl. 58—56.)



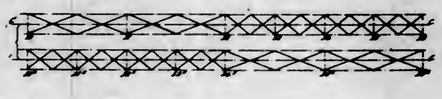
1. A support for clocks, including a front member having an opening therein and an enlargement at its lower end, pins projecting rearwardly from said enlargement, a base member having openings for receiving said pins and adapted to support a clock so that the face thereof will be discernible through the opening in said front member, and means carried by the enlargement of said front member and disposed about the opening therein for engaging said clock to retain the same in position on the base.

1,475,138. MOTOR VEHICLE. JOSEPH S. PARENTI, Buffalo, N. Y., assignor to Parenti Motors Corporation, Buffalo, N. Y. Filed Sept. 8, 1920. Serial No. 408,902. 20 Claims. (Cl. 180—73.)



1. In a motor vehicle, the combination with a body and wheels, of a carrier for each wheel and on which the wheel is journalled, rods pivoted to said carrier and to said body and forming a parallel link mechanism with each carrier and said body, springs supporting said body from said wheel carriers, a differential gear mounted on said body, and flexible driving connections between said differential gear and said wheels.

1,475,139. TELEPHONE CABLE. GEORGE C. PEARSON, London, England. Filed Mar. 30, 1920. Serial No. 369,969. 1 Claim. (Cl. 173—81.)



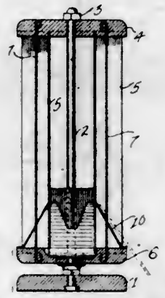
In telephone cables for duplex and phantom circuit working, two pair cores comprising two pairs of elements twisted together in which the pairs for a manufactured length are formed with a series of long twists followed by a series of shorter twists, the center portion of the shorter twists in one pair being placed opposite the center portion of the longer twists of the other pair, the elements of the two pairs at these points being in parallel planes, the elements of one pair being always in a different plane from the elements of the other pair, and the relative positions of these planes being the same at corresponding cross sections of the complete twists throughout the length.

1,475,140. RESILIENT TIRE. TOUSSAINT PHANEUF, Washington, D. C. Filed Jan. 18, 1923. Serial No. 613,508. 6 Claims. (Cl. 152—8.)



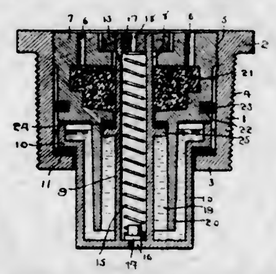
1. A resilient wheel of the class described comprising a plurality of spring strips of loop shape, means for securing the ends of each strip to the felly of the wheel, rings passing through the strips and engaging the tread parts thereof and a tread of resilient material placed upon the tread parts of the strips.

1,475,141. COMBINED EXHIBITING AND VENDING DEVICE. WILLIAM A. RICHMOND and FRANCIS P. RICHMOND, San Francisco, Calif., assignors to Frank A. Brown, San Francisco, Calif. Filed Nov. 26, 1921, Serial No. 517,987. Renewed May 2, 1923. 2 Claims. (Cl. 211—20.)



1. In a device of the character described, an exhibiting and vending rack comprising a plurality of channel members, a wire spaced within each of said channel members for retaining articles to be vended, a bifurcated plate mounted in the lower extremity of each of said channel members and adapted to straddle said wire, said plates being positioned at a substantially acute angle with respect to said wire.

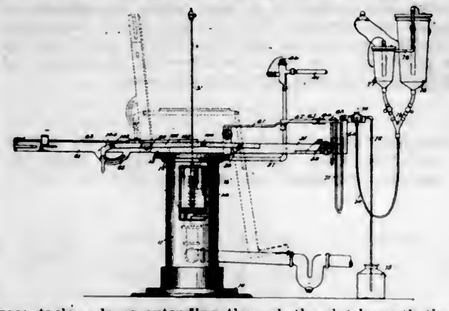
1,475,142. BUNG FOR LIQUID CONTAINERS. WALTER RÜEGSEGGER, Matzingen, Switzerland. Filed Mar. 5, 1923. Serial No. 622,930. 2 Claims. (Cl. 217—99.)



1. A bung for barrels for transport purposes, comprising a perforated disc capable of being screwed into the bung sleeve, a cotton wool container combined with the said disc and having a peripheral packing and a downwardly projecting rim, a liquid container having a central stem, a face capable of being tightly pressed upon an annular flange of the bung sleeve and a central stem having a flange upon which the bottom of the cotton wool container is capable of being tightly pressed, the said rim of the cotton wool container dipping in the liquid container and the said stem being in lifting connection to the perforated disc.

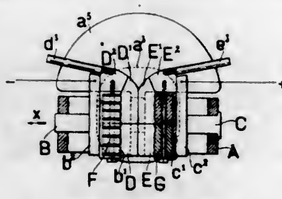
1,475,143. OPERATNG TABLE. OSCAR BOTO SCHELLMANN, New York, N. Y. Filed Mar. 18, 1922. Serial No. 544,871. 2 Claims. (Cl. 45—50.)

1. A device of the character described comprising a hollow pedestal provided with a sight opening and a slot disposed therebeneath, a spider formed interiorly of said pedestal, a drain supported by said spider and extending through the pedestal a measuring receptacle supported by said drain at a point opposite said sight opening, a valve for controlling the discharge from said measuring



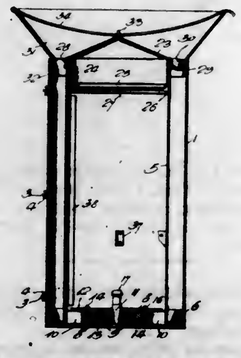
receptacle, a lever extending through the slot beneath the sight opening for operating said valve, and a seat section carried by the upper end of said pedestal and having an opening disposed above the measuring receptacle.

1,475,144. ELECTRIC SWITCH DEVICE. LUDWIG SCHÖN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Dec. 6, 1920. Serial No. 428,663. 6 Claims. (Cl. 200—147.)



1. A switch device of the class described comprising a frame, contact pieces mounted in said frame, each contact piece comprising a metal section and a carbon section, one of said contact pieces being movable to break the circuit and magnetic means for driving the arc formed during the breaking of the circuit from the metal sections of said contact pieces to the carbon sections.

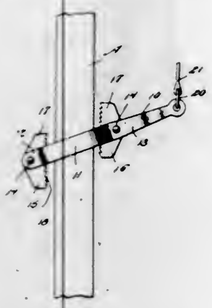
1,475,145. MOLD FOR CONCRETE PIPES. THOMAS SCHUSTER, Phoenix, Ariz. Filed Jan. 27, 1921, Serial No. 440,441. Renewed June 8, 1923. 6 Claims. (Cl. 25—128.)



1. A mold for concrete pipes comprising an outer cylindrical casing, an inner expansible and contractible core arranged in and spaced from said casing, means for

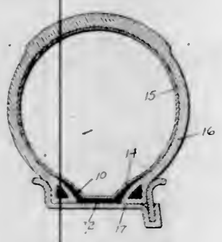
retaining the casing and core in spaced relation, means for holding the core in true concentric shape, and an expansible bottom for the latter including a pair of triangular blocks having bevelled edges disposed in spaced relation, and a plurality of other blocks or segments engaging and arranged about the first named blocks and forming a substantial disk, the aforesaid bevels serving to permit use of a wedge for increasing the diameter of the disk and in turn expanding said core.

1,475,146. PIPE-LIFTING JACK. JAMES W. SEPTER, Sun City, Kans. Filed Apr. 25, 1921. Serial No. 464,171. 3 Claims. (Cl. 294—92.)



1. A pipe jack comprising a yoke disposable about a pipe and having one end prolonged to serve as a lever adapted for connection with a flexible hoisting element, and a pair of jaws pivoted within the yoke and engageable with opposite sides of a pipe to be pulled, said jaws having their confronting faces formed with inclined teeth.

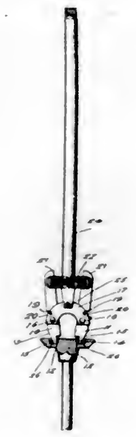
1,475,147. PNEUMATIC-TIRE FLAP. WALTER E. SHIVELY, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed June 9, 1919. Serial No. 302,839. 6 Claims. (Cl. 152—21.)



1. A flexible flap, for pneumatic tires, constructed to present in cross section, a base portion having an edge extension comprising normally angularly arranged portions one of which is constructed for hinging movement upon the other.

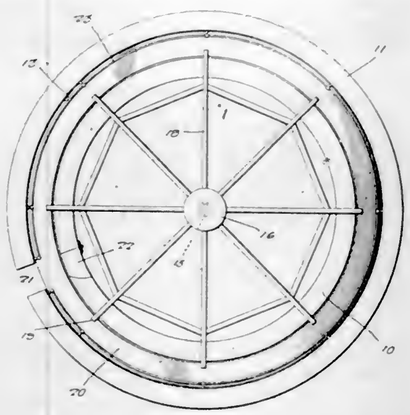
1,475,148. VALVE-GRINDER ATTACHMENT. BOYD SINE, Romney, W. Va. Filed Oct. 14, 1922. Serial No. 594,619. 1 Claim. (Cl. 51—29.)

An attachment for valve grinders comprising a pair of plates, valve gripping elements pivotally engaged between the said plates, said elements respectively presenting a jaw and a handle, an expansion spring engaged between the said handles and normally holding the same apart, cross pins connecting the said plates and engaging in notches in the said handles to limit the outward move-



ment of the latter, and a carrying spindle connected to the said plates and being threaded for attachment to a grinder.

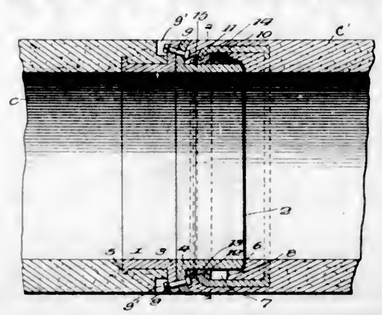
1,475,149. STORE APPARATUS. EDWARD E. SMITH, El Paso, Tex. Filed Feb. 14, 1923. Serial No. 618,993. 3 Claims. (Cl. 186—1.)



1. A store apparatus comprising outer and inner series of shelving spaced apart to define a circular passage, said shelving being designed to carrying commodities on sale, and a wheel like rotary platform designed to support the salesman and traveling in the space between the shelving.

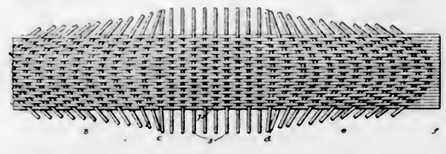
1,475,150. CONDUIT COUPLING. HARRY K. SWENEY, Denver, Colo. Filed June 10, 1921. Serial No. 476,628. 7 Claims. (Cl. 72—53.)

1. A conduit coupling, comprising collars engageable with the adjacent ends of sections to be coupled, means for rigidly interconnecting said collars, one of these collars being movable transversely with relation to its respective section, and means for connecting said collar



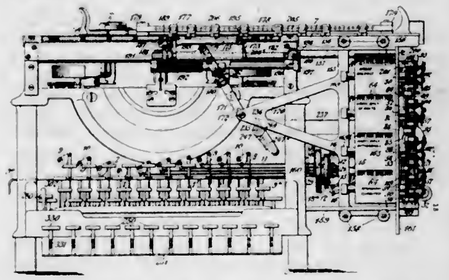
to its section to permit of such transverse movement of the same, but to prevent longitudinal movement of the collar with relation to said section.

1,475,151. METHOD OF MAKING ARTICLES OF WICKERWARE. HAROLD F. SHAW, Leominster, Mass., assignor to F. A. Whitney Carriage Company, Leominster, Mass., a Corporation of Massachusetts. Filed July 19, 1921. Serial No. 485,901. 5 Claims. (Cl. 147—48.)



1. The method of forming a three dimensional wicker article in which the stakes have non-parallel positions characterized by providing a flat woven blank and displacing certain stakes in the plane of the fabric to provide a flat, partially formed blank approximating a development in a plane of the desired article and then bending the blank to its three dimensional form.

1,475,152. COMBINED TYPEWRITING AND COMPUTING MACHINE. WALTER WRIGHT, New York, N. Y., assignor to Underwood Computing Machine Company, New York, N. Y., a Corperation of New York. Filed June 29, 1910. Serial No. 569,502. 162 Claims. (Cl. 235—59.)

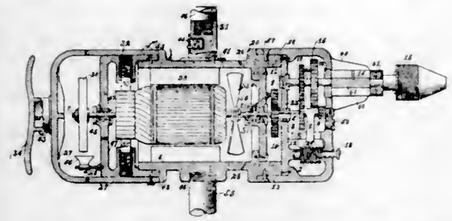


1. The combination with a key-controlled drive shaft, of a pinion thereon, a master wheel, computing devices operated by said master wheel, a pinion connected to said master wheel, a lever, shiftable means operated by said lever either to enable said pinions to co-operate to drive said master wheel or to silence said pinions, a slide having means to lock one of said pinions when silenced, a guide for said slide and means to enable said lever to operate said slide.

122. The combination with a computing head capable of inaction and action to perform a variety of computations, of means for changing the action of said computing head, and rotary reciprocating means for governing said first-mentioned means.

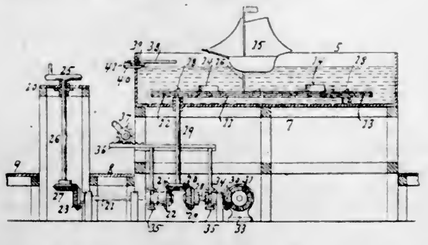
158. The combination with a typewriting mechanism, a shiftable ribbon mechanism, and a convertible computing mechanism, of means dependent upon the operation of the computing mechanism for both converting said computing mechanism and selecting a different color of ribbon preparatory to the next computation.

1,475,153. PORTABLE ELECTRIC COMBINATION DRILL. HARRY ATHENAS, New York, N. Y. Filed Mar. 16, 1920. Serial No. 366,381. 4 Claims. (Cl. 29—26.)



1. In a breast drill tool holder, in combination, a casing provided with a motor and motor shaft, a tool holder intervening, reducing and change speed gears between the motor shaft and the tool holder, a grinding wheel mounted upon the motor shaft at its opposite end and a removable cover provided with a breast engaging means normally protecting said grinding wheels.

1,475,154. GAME. ANDREW B. FOANS, New York. N. Y., assignor to Kentucky Derby Company, Inc., a Corporation of New York. Filed Mar. 14, 1922. Serial No. 543,734. 8 Claims. (Cl. 46—56.)



6. In a game the combination with a conveyer, of manual means for operating the conveyer, a clutch for controlling the manual means, and a motor brought into action by the clutch control for actuating the conveyer when the manual means is out of action.

1,475,155. PROCESS OF MAKING ARTIFICIAL CRYOLITE. HENRY HOWARD, Cleveland, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 23, 1922. Serial No. 538,646. 8 Claims. (Cl. 23—13.)

1. Process of making artificial cryolite which comprises reacting upon sodium chlorid with a solution of aluminum fluorid in hydrofluoric acid, and neutralizing the hydrochloric acid generated in the reaction.

1,475,156. PROCESS OF MAKING ARTIFICIAL CRYOLITE. HENRY HOWARD, Cleveland, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 1, 1922. Serial No. 572,322. 10 Claims. (Cl. 23—13.)

1. Process of making artificial cryolite which compriaes, reacting upon sodium sulfate with hydrofluoric acid in the presence of aluminum fluorid, and neutralizing the acid generated in the reaction.

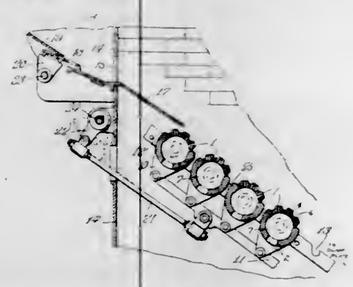
1,475,157. PROCESS OF MAKING ARTIFICIAL CRYOLITE. HENRY HOWARD, Cleveland, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 16, 1922. Serial No. 594,981. 15 Claims. (Cl. 23—13.)

1. Process of making artificial cryolite which comprises reacting upon a sodium salt of a strong mineral acid with a solution of aluminum fluorid in hydrofluoric acid, and neutralizing the mineral acid generated in the reaction.

1,475,158. PROCESS OF MAKING ARTIFICIAL CRYOLITE. HENRY HOWARD, Cleveland, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 16, 1922. Serial No. 594,982. 6 Claims. (Cl. 23—13.)

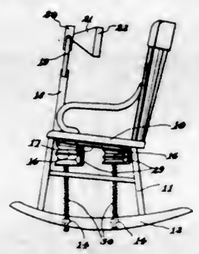
1. Process of making artificial cryolite which comprises mixing solutions of aluminum fluorid, ammonium fluorid and a sodium salt of a strong mineral acid, and separating artificial cryolite from the mixture.

1,475,159. GRATE BAR. ALLAN M. MASSER, Chicago, Ill., assignor to Fred M. Davis, Chicago, Ill. Filed Jan. 23, 1920. Serial No. 353,516. 2 Claims. (Cl. 110—74.)



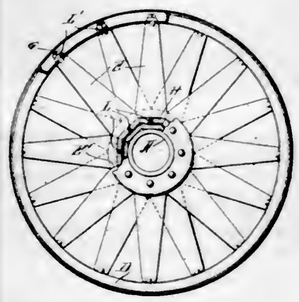
1. A hollow grate bar adapted for rockable mounting, and having an arcuate upper face provided with alternate longitudinal ribs and depressions extending continuously throughout the length of said bars and also provided with draft tuyeres distributed therein to discharge upwardly, whereby the bar may be cooled in use and the direction of the draft jets constantly changed relative to the fuel bed, said bar having lateral zones of smooth cylindrical shape to provide for constant spacing relative to an adjacent bar, and said bar also having a draft inlet aperture for the admission of air to supply said tuyeres.

1,475,160. FAN ATTACHMENT FOR ROCKERS. ANTHONY T. ROMAN, North Brookfield, Mass. Filed Sept. 26, 1922. Serial No. 590,613. 1 Claim. (Cl. 230—9.)



The combination with a rocking chair having means for compressing air when operated, of a tubular post fixed on one of the front corners of the seat of said chair, a fork on said post, a circular casing pivoted in said fork, a shaft revoluble in said casing, extending towards the rear of the chair, a fan fixed on one end of said shaft adapted to be actuated by air passing through said tubular post, and a conical extension on said casing concentric with said shaft, the base of said conical extension being directed outwardly.

1,475,161. METAL WHEEL. JAMES H. WAGENHORST, Akron, Ohio. Filed Dec. 5, 1918. Serial No. 265,403. 9 Claims. (Cl. 301—56.)



5. A metal wheel comprising a hub having radial flanges, a sheet metal fixed rim, an outer series of strip sheet metal spokes having spindles at their outer ends, said outer series of spokes being connected at their inner ends to the outer hub flange, the outer ends of said spokes passing through the sheet metal fixed rim and connected thereto, an inner series of strip sheet metal spokes having spindles at their outer ends, said outer ends passing through the sheet metal fixed rim and connected thereto, the inner ends of said inner series of spokes being connected to the inner hub flange, the angle of inclination of the outer series of spokes to the axis of the wheel being different from the angle of inclination of the inner series of spokes.

Patents Nos. 1,475,162 to 1,475,924.

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Trade-Marks	448	No. 176,377 to No.	176,824, inclusive.
T. M. Renewals	31		
Reissues	2	No. 15,725 to No.	15,726, inclusive.
Designs	35	No. 63,351 to No.	63,385, inclusive.
Patents	763	No. 1,475,162 to No.	1,475,924, inclusive.
Total	1279		

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

958,478, W. E. Davey, Process of reenforcing trees, suit filed Aug. 11, 1923, D. C., N. D. Ohio (W. D.), Doc. 412, *The Davey Tree Expert Co.* v. *S. Lewandowski.* Decree for complainant Sept. 25, 1923. Same, suit filed Sept. 8, 1923, D. C., D. Del., Doc. E 525, *The Davey Tree Expert Co.* v. *K. M. Urquhart.* Decree for final injunction Sept. 24, 1923. Same, suit filed Sept. 24, 1923, D. C., S. D. Calif., Doc. H-21, *The Davey Tree Expert Co.* v. *W. Lewtas.* Same, suit filed Oct. 23, 1923, D. C., E. D. Mich. (S. D.), Doc. 621, *The Davey Tree Expert Co.* v. *E. Everhart.* Same, suit filed Sept. 17, 1923, D. C., N. D. Ill., Doc. 3742, *The Davey Tree Expert Co.* v. *M. H. Radke.* Same, suits filed Oct. 26, 1923, D. C., N. D. Calif., Doc. 1128, *The Davey Tree Expert Co.* v. *M. F. Blair* (*Blair Tree Expert Co.*). Same, Doc. 1129, *The Davey Tree Expert Co.* v. *C. E. Seitz.* Same, Doc. 1130, *The Davey Tree Expert Co.* v. *V. C. Weltzin* (*The Weltzin Tree Expert Co.*).

1,354,262, F. W. Mathieu, Globe for lighting fixtures, suit filed June 2, 1923, D. C., S. D. N. Y., Doc. 24/36, *F. W. Mathieu et al.* v. *Shapiro & Aronson, Inc.* Bill dismissed without prejudice Oct. 26, 1923.

1,355,074, D. P. Cleveland, Process of removing surface finish, suits filed Sept. 26, 1923, D. C., S. D. Calif., Doc. H-24, *J. A. Bergfeld et al.* v. *Automobile Assembling Co.* Same, Doc. H-25, *J. A. Bergfeld et al.* v. *R. P. Starr* (*S. & D. Automotive Service*). Same, Doc. H-27, *J. A. Bergfeld et al.* v. *E. D. McArthur.* Same, Doc. H-26, *J. A. Bergfeld et al.* v. *R. Lohrmann et al.*

1,374,502, E. P. Haines, Mechanism for operating sectional doors, suit filed Oct. 22, 1923, D. C., S. D. N. Y., Doc. E 27/243, *The Patent Appliance Co.* v. *McHarg-Barton Co., Inc.*

1,411,227, L. A. Suekoff, Spring-cushion constructions, suit filed Oct. 16, 1923, D. C., W. D. Mich. (S. D.), Doc. 2000, *L. A. Suekoff et al.* v. *D'Arcy Spring Co.*

1,419,926, M. L. Heineke, Thrashing-machine feeders, suit filed Oct. 25, 1923, D. C., S. D. Ill., Doc. 306, *Heincke & Co.* v. *Hart Grain Weigher Co.*

1,445,311, P. Hammer, Wire mattress, suit filed Sept. 5, 1923, D. C., E. D. N. Y., Doc. 1315, *P. Hammer* v. *L. Towbin.*

1,449,559, W. B. So Relle, Game club, suit filed July 12, 1923, D. C., S. D. N. Y., Doc. E 27/19, *The Crawford, McGregor & Canby Co. et al.* v. *T. E. Wilson & Co.* Bill dismissed Oct. 23, 1923.

1,463,760, C. A. Conger, Vehicle lock, suit filed Oct. 11, 1923, D. C., N. D. Calif., Doc. E 1125, *C. A. Conger* v. *National Auto Devices Co.*

1,466,598, I. Panes, Brassières, suit filed Oct. 26, 1923, D. C., S. D. N. Y., Doc. E 27/258, *I. Panes et al.* v. *B. Sklarew* (*Chiclyne Brassiere Co.*).

1,467,468, A. F. Blanchard, Flexible bracelets, suit filed Oct. 22, 1923, D. C., D. R. I., Doc. 175, *The Ideal Jewelry Mfg. Co.* v. *H. Payton Co.*

Des. 54,355, M. Spiegel, Sheet of wrapping paper, suits filed Oct. 20, 1923, D. C., D. Mass., Doc. E 1865, *E. Frisch* v. *The 20th Century Bakery, Inc.* Same, Doc. E 1866, *E. Frisch* v. *American Tissue Mills.*

Condition of Applications Under Examination at Close of Business November 16, 1923.

Room No	(Total number of applications awaiting action, exluding Trade-Mark Division, 69,792; Trade-Mark Division, 2,546. Oldest new case, Jan. 19, 1923; oldest amended, Jan. 17, 1923. The dates given are 1923.) Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plant Husbandry; Plows; Planting; Scattering Unloaders.	Feb. 24	Feb. 14	1,291
128	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Mar. 26	Mar. 14	1,275
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	May 22	Apr. 30	1,142
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Feb. 28	Apr. 25	1,480
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry: Manifolding; Music; Printed Matter; Tying Cords or Strands.	Jan. 29	Feb. 1	1,512
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Feb. 19	Apr. 2	1,851
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	Mar. 21	Mar. 23	2,607
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	May 3	May 23	1,738
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	Apr. 6	Sept. 27	807
235	10. BARTHOLOMEW, J. A., Motor Vehicles; Land Vehicles—Animal Draft Appliances, Bodies and Tops, Dumping, Wheel Substitutes.	Feb. 26	June 9	1,456
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skin, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	May 31	Apr. 16	857
322	12. PIERCE, P. F., Machine Elements	Mar. 9	Mar. 7	1,304
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	Mar. 27	June 13	1,195
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Feb. 17	Oct. 6	1,061
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Feb. 2	Jan. 26	2,007
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Feb. 19	Feb. 21	2,620
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Association or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Feb. 8	June 8	1,496
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	Jan. 31	Feb. 16	1,997
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	Mar. 27	Aug. 11	1,190
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Dentistry; Locks and Latches; Safes; Undertaking.	Apr. 16	Apr. 10	1,430
212	21. THURBER, W. L., Winding and Reeling; Textiles—Braiding, Netting, or Lace Making, Cloth Finishing, Fiber Preparation, Knitting, Spinning, Twisting or Twining, Weaving.	Feb. 6	Aug. 17	976
249	22. COLWELL, H. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Mar. 26	Apr. 19	541
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	Feb. 2	Jan. 17	702
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Mar. 3	Apr. 12	1,150
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Cutlery; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Gas Separation.	June 11	June 9	976
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Mar. 5	Feb. 17	979
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Mar. 17	Mar. 26	1,401
225	28. BENSON, A. R., Internal-Combustion Engines	May 22	Apr. 16	1,282
147	29. MORRIS, B. N., Abrading; Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Feb. 16	May 14	1,289
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Mar. 5	Sept. 10	1,324
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar, Starch, and Carbohydrates; Concentrating Evaporators.	Mar. 7	Mar. 3	1,563
120	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Jan. 30	Jan. 30	1,360
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	Mar. 10	Feb. 13	1,574
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	Apr. 3	May 3	946
62	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	June 19	June 20	828
265	36. MORTON, C. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Apr. 16	Mar. 9	1,973
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Mar. 10	Mar. 1	1,816
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Feb. 9	Feb. 20	1,797
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Jan. 19	Jan. 31	1,245
271	40. OBERLIN, J. J., Baggage; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Feb. 15	July 2	1,997
125	41. BROWN, J. L., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Mar. 28	May 9	1,009
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Mar. 3	Mar. 14	1,724
382	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Electricity, Medical and Surgical; Fire Extinguishers; Medicines; Sewerage; Surgery; Liquid Separation or Purification.	Mar. 1	Feb. 12	1,794
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	Mar. 10	June 1	1,142
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Apr. 18	Mar. 27	1,622
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Apr. 14	May 3	1,357
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time-Controlling Mechanism.	Mar. 7	May 16	1,198
116	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Feb. 1	Jan. 30	2,274
383	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	Mar. 19	Apr. 19	566
102	DESIGNS: C. O. MARKHAM (Acting)	July 3	Aug. 22	1,071
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. {Trade-Marks	Aug. 1	Oct. 19	2,504
	{Labels and Prints	Nov. 3	Nov. 10	42

DECISIONS IN PATENT AND TRADE-MARK CASES.

Commissioner's Decisions.

EX PARTE HYDE.

Decided May 29, 1923.

DESIGNS—PATENTABILITY.

Differences which do not show patentable novelty or involve inventive genius are not sufficient to warrant the granting of a patent for a design.

APPEAL from Examiners in Chief.

DESIGN FOR CLOCK CASES.

Messrs. Bartlett & Brownell for the applicant.

FENNING, *Assistant Commissioner:*

This is an appeal from the action of the Examiners in Chief affirming the Primary Examiner in rejecting an application for a design patent for clock cases.

The clock illustrated in the drawings here is substantially identical with that shown in Patent No. 1,418,895, issued June 6, 1922, to the Gilbert Clock Co., assignee of the present applicant. It will be observed that the case consists of three elements, a cylindrical body portion, a rear bell, and a curved crystal covering the face. Patent No. 1,418,649, issued to applicant June 6, 1922, shows the body portion and the bell, and the curved crystal is illustrated in Figs. 3 and 6 in applicant's Patent No. 1,151,853, September 7, 1920. None of these patents may be relied upon to anticipate the present design, but they do illustrate it. The Examiner relies upon No. 1,048,805, Bryce, and Design No. 42,444, Stockton. The latter shows the curved crystal, and Bryce shows the cylindrical body portion and the rear bell. Applicant points out five points of distinction between his design and Bryce:

1. Cutting of the angular front of Bryce;
2. Enlarging its crystal;
3. Curving the crystal;
4. Moving the bell backward so as to bring it outside the rear flange of the cylinder;
5. Enlarging the bell so as to make its edge a continuation of the cylindrical portion.

These differences may be present; but I am not satisfied that they are sufficient to warrant the granting of a patent for the design. At all events No. 1,148,969, Kern, is possibly a nearer reference than Bryce, since changes 1, 2, 4, and 5, pointed out by applicant, would not have to be made in Kern. If the well-known curved crystal of Stockton were placed in front of Kern's case, applicant's design would be produced. Moreover, Swiss Patent No. 64,739, issued October 28, 1913, shows a watchcase in which a curved lens is associated with a curved rear. The appearance of this is very similar to what applicant shows.

As was pointed out by the court of appeals in *in re Freeman* (1904, C. D., 619; 109 O. G., 1339; 28 App. D. C., 226):

> A minute cog-wheel, almost indistinguishable by the naked eye, might make a vast difference in the operativeness of a mechanical device, while details of that nature could not possibly make any appreciable difference between devices for designs. As has been well stated by the present Commissioner of Patents in another case, the novelty of a design device must be tested by the test of ornament. Now, while the final merit of ornamentation may depend upon the harmonious blending of numerous small details, and all such details are important in the production of the harmonious whole, yet it is very evident that, in such matters, differing therein from mechanical contrivances, the change or omission or addition of a few minor details would not justify the multiplication of design patents, even though one design might readily be distinguished from another by some one or more features.

The attitude of the court of appeals, and consequently of this Office, toward patentability of designs is clearly set out in *in re Schraubstadter* (1905, C. D., 541; 120 O. G., 1167; 26 App. D. C., 331), *in re Tournier* (1901, C. D., 306; 94 O. G., 2166; 17 App. D. C., 481), and *in re Sherman* (1910, C. D., 382; 154 O. G., 839; 35 App. D. C., 100.)

The present case is very similar to that of *Knapp* v. *Will & Baumer Co.* (273 Fed. Rep., 380), in which the Circuit Court of Appeals for the Second Circuit held invalid a design patent for a candle consisting of:

> * * * a pillar or column substantially square in cross-section, mounted upon a substantially cylindrical longitudinally fluted pedestal and surmounted by a bell-shaped cap, with its base lines set back from the square edges of the pillar top.

The court there set out that the pillar, the base, and the top were separately old and that applicant had merely placed—

> a small conch candle tip in the center of a square column. To do this did not show patentable novelty or involve inventive genius.

I am constrained to hold here that all applicant has done is to place a curved crystal in the front of the case of Kern, for instance, and that to do that did not show patentable novelty or involve inventive genius.

The Examiners in Chief are affirmed.

COLUMBIAN ROPE COMPANY *v.* THE HOOVEN & ALLISON COMPANY.

Decided August 16, 1922.

1. TRADE-MARKS—MARKS FOR ROPES.

The difficulty of marking ropes for identification is great, and a proper effort to that end which seems successful should be encouraged and met with sympathetic treatment.

On rehearing.

2. SAME—MARKS FOR ROPE DIFFERING IN COLOR ACCORDING TO MATERIAL OF ROPE NOT GRADE MARKS.

Where an applicant files several applications for trade-mark registration, each mark consisting of an elongated lineal marker or label separate from the structural part of a rope, but located in the interior of the rope and inclosed by the rope strands, the markers being substantially identical except in color, the color differing according to the material of the rope and each marker indicating the highest quality of rope of a particular material, *Held* that there is sufficient doubt that the markers are grade marks to warrant their registration as trade-marks.

3. SAME—DIFFERENTIATION SUFFICIENT TO WARRANT REGISTRATION.

Where there are available three methods of employing color to mark rope: (1) a colored thread or the

like incorporated into a strand so as to show occasionally or continuously; (2) a colored thread or the like incorporated into a strand so as not to show in the complete rope; (3) a colored thread or the like inserted between the strands so that it does not show from the surface of the rope, and the record shows that these three methods are distinctive, *Held* that employment of the third method sufficiently distinguishes the mark from methods (1) and (2) to warrant registration.

4. SAME.

The common law gives applicant the right to register the mark obtained by method (3) described in the foregoing paragraph 3, although the opposer controls a patent relating to a tape marker for rope situated in the place applicant puts its mark, but registration will not avoid infringement of the patent if it exists.

APPEAL from Examiner of Interferences.

TRADE-MARK FOR MAURITIUS FIBER ROPE.

Messrs. Church & Church for the Columbian Rope Company.

Mr. Sebastian Hinton for The Hooven & Allison Company.

FENNING, *Assistant Commissioner:*

This is an appeal from the action of the Examiner of Interferences dismissing an opposition filed against the application of The Hooven & Allison Company for the registration of a trade-mark for Mauritius fiber rope. The application for registration says:

The trade-mark consists of an elongated lineal purple marker or label separate from the structural part of the rope, but located in the interior of the rope and inclosed by the rope-strands.

The trade-mark is usually applied to the goods by placing the elongated lineal purple marker or label, in the form of yarn, thread or the like, along the axis of the rope inside the strands thereof, so that the trade-mark may be seen at the ends of the rope or when the rope strands are slightly untwisted at an intermediate point for the purpose of disclosing the trade-mark.

Applicant filed seven applications for trade-mark registration substantially identical with this application excepting the color of the marker and the material of the rope to which the marker is applied. The applications include: yellow for jute rope; red for sisal rope; white for hemp rope; pink for New Zealand hemp rope; purple for Mauritius fiber rope; green for istle rope; orange for African sisal rope.

The applications seem to vary from the statement of applicant's witness Steele in cross question 63. These colors have been definite apparently since about 1918, although there were some changes prior to that time. For instance, the purple marker seems to have been shifted from a jute rope to Mauritius rope. (Steele, Q. 28.) Applicant has withdrawn its applications with respect to yellow, white, and orange markers by an agreement or consent in favor of the Tubbs Cordage Company, which company is not involved in the present proceeding.

The present opposition is one of four, and the colors particularly involved are purple, red, pink, and green. All four cases have been argued together, and a single brief is filed here in the four cases. A single record was taken with respect to all seven cases. We must therefore consider the cases together and take into account their relation to each other.

[1] The difficulty of marking ropes for identification is great and a proper effort to that end which seems successful should be encouraged and met with sympathetic treatment. Applicant here has spent a large amount of money in advertising its business and the means it has adopted to mark its goods. It is with reluctance, therefore, that I am constrained to hold that the present applications do not involve trade-marks at all, but rather lie within that field to which the term "grade mark" has been applied and which cannot be registered. The rules with respect to such marks are laid down in such decisions as *Lawrence Manufacturing Co. v. Tennessee Manufacturing Co.* (1891, C. D., 415; 55 O. G., 1528; 138 U. S., 537); *Stevens Linen Works v. Don & Co.* (121 Fed. Rep., 171, affirmed at 127 Fed. Rep., 950); *Albany Perforated Wrapping Paper Co. v. John Hoberg Co.* (102 Fed. Rep., 157, affirmed at 109 Fed. Rep., 589); *United States Playing Card Co. v. C. M. Clark Publishing Co.* (1908 C. D., 309; 132 O. G., 681; 30 App. D. C., 208); *The Denny Tag Company v. Dennison Manufacturing Company* (1919, C. D., 1; 258 O. G., 221, affirmed at 1919 C. D., 137); and *Columbia Mill Company v. Alcorn* (150 U. S., 460). In the latter case the Supreme Court says that in order to be a trade-mark the mark—

• • • must be designed, as its primary object and purpose, to indicate the owner or producer of the commodity, and to distinguish it from like articles manufactured by others. (2) That if the device, mark, or symbol was adopted or placed upon the article for the purpose of identifying its class, grade, style, or quality, or for any purpose other than a reference to or indication of its ownership, it cannot be sustained as a valid trade-mark.

A statement in appellee's brief is very significant in view of this opinion of the Supreme Court:

Applicant could not use the same mark for different fibers, e. g., jute and sisal. If it did, dealers would pass off applicant's jute rope for applicant's sisal rope whenever the difference in price tempted them to do so.

Clearly, then, applicant's purpose in employing yellow for jute and red for sisal rope and in wishing to register the green mark for istle and the purple mark for Mauritius rope was primarily to distinguish one rope from another and not to distinguish their own ropes from other manufacturers'. Applicant in its brief says:

These marks are not merely grade marks. This is obvious. Of course any series of products can be graded in half a dozen ways according to half a dozen different bases of graduation. It would be strange if they were identical. But each marker indicates the highest quality of a particular kind of rope—these kinds of rope are used in different markets for different purposes, with, of course, some overlap.

It seems to be suggested that if applicant used purple for its best grade Mauritius and red for a poorer grade Mauritius, the marks would be grade marks rather than trade-marks. It is argued, however, that since applicant actually changes the material composing the rope when it changes the color of its mark, it does not have a proper grade mark. No reported cases are cited on this point, and I have been unable to find any. An inspection of the many samples filed as exhibits in the case satisfies me, however, that to the ordinary purchaser (and the public generally must be protected) istle rope and Mauritius rope, for instance, are so nearly alike in appearance that one might properly be considered merely a better grade of rope than the other.

Applicant's witness Steele, in answers to cross questions 63 and 64, endeavors to show that these are different ropes rather than different grades of rope, and that with respect to applicant's manufacture "each one of them is the highest grade of that particular kind of rope." But the advertisement of applicant set out in cross question 64 seems clearly to indicate that the ropes of different materials are merely different grades of rope generically. Steele, in answers to questions 38 and 40, indicates that two of the ropes may be used as clotheslines. Presumably one makes a better clothesline than the other. Applicant's witness Hallisy, in answer to question 8, says that sisal and manila ropes probably interlap, and in answer to question 9 he indicates that the applicant mixes istle in the manufacture of a cheap rope known in the trade as commercial or common sisal. If there is a hairbreadth of difference in the materials the separation can be marked only by a very crooked hair.

That applicant cannot procure trade-mark protection on a colored thread, irrespective of the color, in its rope is clearly determined by the Supreme Court in *A. Leschen & Sons Rope Company v. Broderick & Bascom Rope Company* (201 U. S., 166).

The refusal to register applicant's present marks might be justified by the decision in *A. Leschen & Sons Rope Company v. American Steel & Wire Co.* (1911, C. D., 315; 164 O. G., 978; 36 App. D. C., 456) and *ex parte De Witt Wire Cloth Company* (1913, C. D., 102; 190 O. G., 547).

The Examiner of Interferences is reversed, the opposition is sustained, and registration is refused.

ON REHEARING, MAY 17, 1923.

Messrs. Church & Church for Columbian Rope Company.

Mr. Sebastian Hinton for The Hooven & Allison Company.

Mr. Charles E. Townsend amicus curiæ.

[2] On this petition for rehearing, by consent of the parties, attorney for the Tubbs Cordage Company was allowed to file a brief. This brief, together with the argument on behalf of The Hooven & Allison Company, leads me to believe that there is sufficient doubt that the marks sought to be registered are grade marks to warrant their registration as trade-marks by this Office. I am further fortified in this conclusion by the fact that it was not traversed by the attorney for the Columbian Rope Company at the hearing.

The record indicates that there are available three methods of employing color to mark rope: (1) A colored thread or the like may be incorporated into a strand so as to show occasionally or continuously; (2) a colored thread or the like may be incorporated into a strand so as not to show in the complete rope; (3) a colored thread or the like may be inserted between the strands of the rope so that it does not show from the surface of the rope, although it may be discovered at the end of the rope or by untwisting the rope at any place. The record seems to establish that these three methods are distinctive. It is possible for one to employ a green marker on the surface, another to employ a similar green marker laid in the strands, and a third to employ a green marker in the interior of the rope inclosed by the strands.

[3] In the present case applicant has employed the third method, and although there is some suggestion that the terms employed in its statement are artificial and inexact I am satisfied that they sufficiently differentiate its mark from methods (1) and (2), indicated above, to warrant registration.

Opposer has not definitely proven use at the date of the opposition of the green marker in the interior of the rope and inclosed by the rope strands. Failure to prove such use warrants dismissing the opposition.

[4] Opposer calls attention to a patent which it controls relating to a tape marker for rope situated in the place applicant puts its mark. It is suggested applicant's registration will limit the use of the patented device and will give applicant a permanent patent for its mark; but, if so, this is just what the common law gives applicant, and its mark can properly be registered here. Of course registration will not avoid infringement of the patent if it exists.

The Examiner of Interferences is affirmed and the opposition dismissed.

U. S. Circuit Court of Appeals—Third Circuit.

JOHNSON ET AL. *v.* LIT BROS., INC. (TWO CASES.)

Decided October 4, 1923.

[284 Fed. Rep., 259.]

PATENTS 973,200, 1,281,019, AND 1,298,346, FOR IMPROVEMENTS IN UNION SUIT, HELD VOID FOR LACK OF INVENTION.

The Johnson and Cooper patents, No. 973,200, for a union suit with a permanently closed crotch and posterior opening covered by a flap, with a single fastening extending from a point near the waistline to a point below the crotch in one leg only, and No. 1,281,019, and Johnson patent, No. 1,298,346, for modifications of the patented garment, *Held* void for want of invention in view of the prior art.

APPEAL from the District Court of the United States for the Eastern District of Pennsylvania; Oliver B. Dickinson, judge.

Two suits by Horace G. Johnson and another against Lit Bros., Inc. From decrees for defendant (278 Fed., 279), plaintiffs appeal. Affirmed.

Mr. Charles N. Butler and *Mr. Maurice Bower Saul* for the appellants.

Mr. Francis B. Bracken, Mr. Edwin F. Samuels, and *Mr. George P. Dike* for the appellee.

Before BUFFINGTON, WOOLLEY, and DAVIS, Circuit Judges.

DAVIS, *Cir. J.:*

This is an appeal from decrees in two suits tried together of the district court holding invalid the following three patents: No. 973,200, issued October 18, 1910; No. 1,281,019, issued October 8, 1918; and No. 1,298,346, issued March 25, 1919. The first two were issued to Horace G. Johnson and to Henry S. Cooper, to whom Johnson assigned one-half

interest between the date of application and issue. The third one was issued to Johnson, who afterward assigned one-half interest therein to Cooper. The defendant conducts a large department store in Philadelphia, and although it was alleged in the bill that defendant had infringed the Letters Patent—

> by making, using and selling * * * garments respectively embodying the improvements described and claimed in each of said Letters Patent,

as a matter of fact, it only sells garments alleged to embody improvements claimed in the patents.

The first patent, No. 973,200, embodies the fundamental idea of Johnson, and it will be first considered. The patent relates to improvements in underwear known as union suits and has for its object a permanently-closed crotch and a posterior opening, covered by a flap secured by a single button or equivalent fastening, extending from a point near the waistline down to a point below the crotch in one leg only. These two elements are embraced in the first and only claim in issue.

We agree with the conclusion of the Circuit Court of Appeals for the Second Circuit (234 Fed., 886; 148 C. C. A., 484), that, while the patent relates to union suits, two-pieced garments worn by either sex are relevant in the prior art in determining invention. The two elements in the claim are the closed crotch and posterior opening. Both of these elements are old in the prior art. The closed crotch is disclosed in Patent No. 529,493, issued to Holmes, November 20, 1894; Patent No. 642,227, issued to Hill January 30, 1900; British Patent No. 19,408, issued to Anderson October 15, 1892; Patent No. 705,070, issued to Graham July 22, 1902; Austrian Patent No. 27,283, issued January 25, 1907, to Karoline Tichy.

Garments with posterior openings extending from a point near the waistline to a point below the crotch in one leg only are disclosed in the patents to Anderson and Tichy, supra.

These two elements, the patentee says, are essential requisites for comfort and convenience. Fashion and mode of dress is an ever-changing art. Some of these changes produce comfort and convenience and others discomfort and inconvenience. In many of the multifarious designs no pretense whatever of invention can be made, though they may in a sense be novel and unique. The district judge said:

> It would be easy for any one to see novelty in feminine apparel, * * * but it would require more than the eagle eye to see utility in much of that which is displayed to the public. (278 Fed., 279.)

With a knowledge of the prior art, with which the patentee is charged, it would require nothing more that the ideas and mechanical skill of the ordinary designer to produce the garment of Johnson's first patent embodying the closed crotch and posterior opening extending from a point below the waistline to a point below the crotch in one leg only, for both elements are old, and the combination of them in this ever-changing art is only illustrative of what is taking place every day in the world of fashion. Moreover, these two elements seem to have been combined before the Johnson patent in the patent of Anderson. We agree with Judge Mayer of the Second Circuit Court of Appeals that—

> with garments made under Muller British patent, 8,766 of 1896, the Cook United States patent, 615,632 of 1898, the Rochette British provisional specification, 1,343 of 1864, and the Tichy Austrian patent, 27,283 of 1907 laid on a table before the man skilled in the art, we think there was so little opportunity for inventive ability that patentability on the record as it now stands is doubtful.

At most, Johnson simply took the well-known closed crotch and combined with it the Tichy opening in the leg. This was done just after the invention of the tubular knitting machine, and this fact, together with the advent of "athletic goods" and B. V. D.'s largely accounts for the commercial success of the general class of goods of which those made according to the Johnson patent is a type.

The second patent, No. 1,281,019, adds certain details, shown by experience to be desirable, to the closed crotch and posterior opening of the first. It dispenses with any "detachable fastening whatever at the waistline or in the vicinity of the crotch." Fullness in the hip and thigh regions and at the posterior opening are secured in this patent by the insertion of a "seat piece," "the lower angles of which form a pair of thigh gore extensions," and the lower portion "forms a closed crotch." The fact that in the 26 interferences declared and allowed by the Patent Office claim in each was made for the alleged invention disclosed by Johnson would indicate that the device did not involve invention at all, but the mere mechanical skill of the designer. Referring to these interferences, Judge Dickinson said:

> These were not all the patents, but only those granted in one batch. The patent laws must be given a working construction. What is the practical result of allowing monopolies of each special make? What is a haberdasher or seamstress to do who is pestered by infringement warnings from this army of patentees? We can readily believe that each of these special makes had a merit of its own. It must, however, be evident that this is not the kind of merit which is rewarded with a monopoly.

The changes, detail, and amplification in the second patent are the natural development resulting from experience. Garments made from tubular woven material would be tight in the seat, around the thighs, and closed crotch. This tightness could not be but experienced by every wearer, and the insertion of the "seat piece," part of which formed the thigh gores and part the closed crotch,

> providing ample width in the hip and thigh regions, and also providing a posterior opening large enough to be practical and simple to manipulate,

was not only the natural, but the inevitable, result as shown by the score or more of interferences. Practically every maker of union suits from tubular woven material was trying to overcome and was overcoming the misfits and inconveniences which Johnson overcame in his second patent.

In the third Johnson patent, No. 1,298,346, the basic idea underlying the other two patents of a closed crotch and posterior opening extending from a point below the waistline to a point below the crotch in one leg only is preserved. This patent modifies the opening by covering it with "inner and outer lapping parts," the free margins of which extend—

> to one leg only substantially below the apex of the crotch and from permanently-attached points in the back above the seat to permanently attached points at substantially the inseam of said leg.

These inner and outer lappings closing the opening may be desirable improvements, but they contain no patentable invention over the disclosures of the other two. They are simply the modification and extension by the skill of a designer of the flaps disclosed in his prior patents and in the patents issued to Holmes, Hill, and others. The changes do not rise to the height of inventive genius, and the decree of the district court is accordingly affirmed.

U. S. Circuit Court of Appeals—First Circuit.

NEW JERSEY ZINC CO. *v.* AMERICAN ZINC, LEAD & SMELTING CO. ET AL.

Decided October 28, 1922.

[284 Fed. Rep., 305.]

1. PATENTS—931,815, FOR FURNACE FOR ROASTING ZINC ORE, VOID FOR LACK OF INVENTION.
   The Tucker patent, No. 931,815, for a furnace for roasting zinc ore, *Held* void for lack of invention in view of the prior art.
2. TRIAL—ADMISSION OF CUMULATIVE EVIDENCE DISCRETIONARY.
   Admission of evidence on rebuttal which is merely cumulative is discretionary with the court.

APPEAL from the District Court of the United States for the District of Maine; Clarence Hale, judge.

Suit in equity by the New Jersey Zinc Company against the American Zinc, Lead & Smelting Company and others. Decree for defendants (276 Fed., 733), and complainant appeals. Affirmed.

Mr. William H. Davis (*Mr. Merton W. Sage, Messrs. Pennie, Davis, Marvin & Edmonds*, and *Messrs. Woodman, Whitehouse & Littlefield* on the brief) for the appellant.

Mr. Frederick L. Emery and *Mr. Preston Upham* (*Mr. Clarence A. Hight* and *Messrs. Emery, Booth, Janney & Varney* on the brief) for the appellees.

Before BINGHAM, JOHNSON, and ANDERSON, Circuit Judges.

BINGHAM, *Cir. J.:*

This is a suit in equity brought by the New Jersey Zinc Company, a New Jersey corporation, against the American Zinc, Lead & Smelting Company, and the American Zinc Company of Illinois, Maine corporations, charging infringement of Letters Patent No. 931,815, issued August 24, 1909, to the plaintiff on the application of Allen Tucker, assignor. The defenses are invalidity and noninfringement. In the district court the bill was dismissed on the ground that the alleged improvement did not involve invention. In its assignment of errors the plaintiff, appellant, contends that the court erred (1) in finding and ruling that the patent was invalid; and (2) in refusing to receive certain testimony offered in rebuttal.

[1] In his specification the patentee states that his

> invention relates to furnaces in which a rake is reciprocated for the purpose of stirring the contents of the furnace, and is particularly applicable to that class of furnaces in which ore is roasted, such as zinc and other ores,

and that—

> the invention resides in mechanism for operating the rakes of such furnaces so that the movement of the same will always be under easy and immediate control, and whereby the number of men necessary to operate such furnaces is reduced.

The record shows that furnaces for roasting zinc-sulphide ores were old, that Edward C. Hegler invented such a furnace and that a patent issued to him therefor as early as August 12, 1884. These furnaces consist of a brick structure containing 14 ovens arranged in two tiers, each oven being 80 feet long, 6 feet wide and a foot and a half high. At each end of the brick furnace, but slightly removed therefrom, is a structural framework called the "rod alley," upon which is mounted machinery for mechanically drawing the rakes through the ore, while it is roasting, for the purpose of stirring it and progressively moving it along each oven.

This machinery consists of a pair of sprocket wheels mounted at opposite ends of the rod alley and carrying an endless chain to which is attached an iron rod about 100 feet long and about an inch and a half in diameter, supported by guide pulleys. By means of sliding gears or clutches one sprocket wheel of each endless chain may be connected to the main shaft driven by a reversible electric motor provided with a controller by which its direction of rotation can be determined and its speed regulated.

These sliding gears or clutches and the controller, with the necessary cables and extension arms usually required to effect manipulation at a distance of such instrumentalities, constitute the control mechanism for the rake-moving machinery. A turntable is provided at each end of the brick furnace and between it and the respective rod alleys. Each turntable has seven superimposed shelves corresponding in height with the seven ovens in each section of the furnace. The turntable is used to support the rakes during their idle periods and to transfer them, when withdrawn from one tier of ovens, into position for entering the other tier.

It takes two hours to complete the roasting of a single charge of ore, and of this time 15 minutes is consumed to rake each tier of ovens. The ore to be roasted is periodically charged into one end of the top oven of a tier, where it is stirred and worked toward the opposite end of the oven by means of a mechanically drawn rake, where it drops through a slot to the oven below. It is then raked towards the other end of that oven and drops through a slot to the oven next below, and so on until the roasted ore is finally discharged from the bottom oven. These rakes are large iron structures weighing from 1,200 to 1,500 pounds each. Prior to Tucker's alleged invention two men were required at each end of the furnace for the raking operation.

One man, called the machine or floor man, operated the controller arm, which started, stopped, and

gave direction to the mechanism that moved the rake rods in the alley at his end of the furnace. He also had charge of the extension cords or chains, which threw in and released the clutches or sliding gears that operated the rake rod for any given rake. The place from which he operated these instrumentalities was on the ground at the end of the rod alley next to the furnace.

Another man, called the hooker, and whom we will designate as hooker man No. 1, attended the guiding of the respective rods from the rod alley at his end of the furnace into the ovens. When one of such rods reached the other end of the furnace, the hooker man at that end, whom we will call hooker man No. 2, hooked the rod to the corresponding rake on the shelf of his turntable. This being done, the rake was drawn through the oven to the shelf on the turntable of hooker man No. 1, who unhooked the rod. It was also a part of the work of hooker man No. 1 to hook a rod coming through an oven from the rod alley at the opposite end of the furnace to the corresponding rake on the shelf of his turntable preparatory to a rake being drawn back through the oven to hooker man No. 2.

At each end of the furnace were four platforms, two at each side of and adjacent to the respective turntables. The hookers, in performing their work on the three upper ovens, stood on the upper platform; in performing their work on the next two ovens, on the platform next below; and for the lower two, upon the ground. This practically covers the state of the art at the time of the alleged invention of Tucker.

What Tucker did was to run the chains or ropes, that operated the clutches and threw a given rake rod into or out of operation, to the platforms and ground where the hooker man was required to be to operate a given oven, and to extend an arm of the controller to these places, so that the hooker man might be able to operate the controller and the clutches, as well as perform the work previously required of him at these places, and the question is whether what he did involved invention.

Claims 1 and 2 are in issue and read as follows:

1. The combination with a furnace having a plurality of tiers of ovens, a pivoted transfer table located at each end of the furnace and adapted to move into position opposite the end of each tier, and having shelves located on a level with each oven, operators' platforms located adjacent said transfer tables at the end of each tier of ovens, a series of rakes adapted to pass through both tiers of ovens, mechanism for reciprocating said rakes, and controlling mechanism for said reciprocating mechanism having their ends located at said operators' platforms.

2. The combination with a furnace having two tiers of ovens, a turntable located at each end of the furnace, and pivoted centrally between the tiers so as to move into position opposite the end of each tier, shelves carried by said turntable on a level with each oven, operators' platforms located at each side of said turntable adjacent the ends of each tier of ovens, a series of rakes adapted to pass through both tiers of ovens, mechanism for reciprocating said rakes, controlling means for starting and stopping said mechanism, means for controlling the direction of motion thereof, said controlling means having ends terminating at said operators' platforms.

As previously pointed out, the furnace with a plurality of tiers of ovens, the pivoted transfer table located at each end of the furnace and adapted to move into position opposite each tier of ovens, and having shelves on a level with each oven, the operators' platforms adjacent to the transfer tables, the series of rakes adapted to pass through both tiers of ovens, the mechanism for reciprocating the rakes, and the controlling mechanism for the reciprocating mechanism singly and in combination, were old. The only thing that was new was the place to which the mechanisms controlling the clutches and the motor were led. It eliminated the work of a man on the ground, so far as his time was occupied in operating the controls, which the evidence shows was about a half an hour in every two hours of the operation of the furnace. If the elimination of one man by the extension of the control mechanism to the platforms and the ground, where the hooker man from the necessities of the case was required to be to tend the ovens, was an obvious thing, the idea did not involve invention, and it is and must be conceded that the mechanism employed in carrying out the idea of extending the controls did not involve invention, as it called for only mechanical skill of the imitative character.

The plaintiff strenuously contends that this change was not an obvious thing. But whether it was or was not obvious involves the determination of a question of fact, depending upon the state of the art, the nature of the thing done, the necessity or desire for overcoming any difficulties which may have existed, the endeavor by those skilled in the art to overcome those difficulties, and the benefits attained.

When the state of the art is understood, the nature of the thing done by Tucker was such that, instead of causing one to believe that it involved inventive thought, leads to the opposite conclusion. But this is not necessarily conclusive of the question, if the idea overcame difficulties with which those skilled in the art had been confronted, and had undertaken to solve, but had failed, and the benefits attained were of a substantial character. The evidence fails to convince us that there were any substantial difficulties in the operation of the furnace which Tucker's conception obviated through his extension of the control arms. It is true that no one had carried the controls to the platforms prior to him. It appears, however, that the idea had previously occurred to others, but that they had not considered it of sufficient consequence to put it into practice, and chiefly because they regarded the labor of the machine or floor man as essentially necessary to the operation of the furnaces in ways other than operating the controls, which took only about a half an hour out of every two hours of his work.

It is also claimed on the part of the plaintiff that, by locating the controls at the platforms to be operated by the hooker man, the work was rendered more safe and expeditious; that it obviated the necessity of signaling from the hooker man to the floor man to stop the movement of the rake rod, when hooking or unhooking it from a rake, or when occasion required in its passage through an oven, in case it happened to be obstructed in its movement. But signaling was obviated only in a minor respect. The change in the location of the controls did away with signaling by hooker man No. 1 to the machine man, who was near by, and could see and be seen by the hooker man. but did not do away with signaling by hooker man No. 2, who is and was stationed at a much greater distance from the control operator, and in a position where he could not see or be seen by the operator.

The record shows that rake rods, in passing into and out of the rod alley, are supported and guided by grooved pulleys, and at the transfer table are supported by guides to a point within two feet of where they enter the oven, and that they carry a white mark, within view of the floor operator, indicating the point beyond which they cannot safely be carried outside the alley. After they enter the oven, they may at times become obstructed if the operator has failed to bend the rod slightly, so as to cause it to run towards the center partition, as there are breaks in the outside walls of the ovens, caused by the chisel holes. But this difficulty is obviated by slight care on the part of the hooker man in the manner suggested.

It is also claimed that the rake rods are at times obstructed in their movement through an oven by the metal becoming gummed and adhering in spots to the bottom of the oven. This difficulty, however, does not arise if the adhering spots are removed by the chiselers through the chisel holes, which are provided for this purpose at the outer side of the ovens.

Furthermore, it is far from clear that these alleged difficulties are materially obviated by the control mechanism being extended to the hooker man on the platforms. The ovens are 80 feet long, 6 feet wide, and a foot and a half high; the air and gases in the ovens, when the rake rods are being put through, are at an intense heat; the ovens are filled with smoke; and the holes in the oven doors through which the rods are inserted are only about six or eight inches square. Under these circumstances it is difficult to believe that the hooker man, standing on a side paltform, could see sufficiently into an oven to perceive an obstruction and prevent the occurrence of difficulties such as are here suggested, or that the placing of the controls in his hands was any marked improvement in dealing with these troubles. We are therefore unable to find that the benefits claimed by Tucker's changed position of the controls were of such a character as to afford any satisfactory aid upon the question of invention.

Neither do we think that any particular weight is to be ascribed to the fact of the issuing of the patent to Tucker by the Patent Office. The proceedings in the Patent Office disclose that the Examiner was wholly uninformed of the state of the prior unpatented art at the time he allowed the claims; that he did not know the pivoted transfer table was old, or that the reciprocating rake mechanism and controlling mechanisms were old; and it is quite probable, if he had known the true state of the art, that he would not have allowed the claims here in issue, which embody all these old elements, for he refused to grant a claim like claim 1, except that it did not contain the pivoted transfer table.

[2] The evidence offered in rebuttal was cumulative to that offered by the plaintiff in presenting its affirmative case, and, such being the situation, it was discretionary with the trial judge whether he would receive or reject it. But, if any of the evidence may have been in some particular strictly rebutting, the plaintiff takes nothing by its exception, for the evidence is before us, and after giving it due consideration we do not think it warrants a conclusion different from that which we have reached.

The decree of the district court is affirmed, with costs to the appellees.

ADJUDICATED PATENTS.

(C. C. A. Ohio.) The Ensten patent, No. 1,313,080, for knitted cap, *Held* valid and infringed. *Rich-Sampliner Co.* v. *Ensten*, 291 Fed. Rep., 1003.

ADVERSE DECISIONS IN INTERFERENCE.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,371,228, A. M. Curtis, Reduction of static interference in radio receiving stations, decided October 15, 1923, claims 1, 12, and 14.

Pat. 1,391,117, W. C. Huebner, Printing plate or the like and means for securing the same in predetermined positions in printing presses, decided September 14, 1923, claims 1, 2, 3, 4, and 5.

TRADE-MARKS CANCELED.

165,435. Petroleum jelly. Standard Oil Company, Whiting, Ind., and Chicago, Ill. Registered March 13, 1923. Canceled September 12, 1923.

Interference Notices.

U. S. PATENT OFFICE, *Washington, Oct. 30, 1923.*

Northwestern Soap Manufacturing Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of "3 W" Powder Company, 2551 Whittier Boulevard, Los Angeles, Calif., for registration of a trade-mark and trade-mark registered May 17, 1921, No. 142,643, to Northwestern Soap Manufacturing Company, Lewistown, Mont., and a notice of such declaration sent by registered mail to said Northwestern Soap Manufacturing Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Northwestern Soap Manufacturing Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Oct. 30, 1923.*

Henry Jensen, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Golden Nugget Sweets, 7 College Terrace, San Francisco, Calif., for registration of a trade-mark and trade-mark registered March 12, 1901, No. 36,060, to Henry Jensen, 331 to 337 Norfolk Street, Cambridge, Mass., and a notice of such declaration sent by registered mail to said Jensen at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Jensen, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Oct. 30, 1923.*

Linden B. Thomas, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Vivian A. Shortt, 34 West Thirty-third Street, Indianapolis, Ind., for registration of a trade-mark and trade-mark registered May 9, 1916, No. 110,192, to Linden B. Thomas, 344 Weybosset Street, Providence, R. I., and a notice of such declaration sent by registered mail to said Thomas at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Thomas, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Oct. 31, 1923.*

Wabash Soap & Chemical Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between The Hoosier Manufacturing Co., 521–523 McCarty Street, Indianapolis, Ind., for registration of a trade-mark and trade-mark registered December 4, 1894, No. 25,590, to Wabash Soap & Chemical Co., Wabash, Ind., and a notice of such declaration sent by registered mail to said Wabash Soap & Chemical Co. at the said address having been returned by the post office authorities as undeliverable, notice is hereby given that unless said Wabash Soap & Chemical Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Nov. 5, 1923.*

Clark Mfg. Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between Walter C. Palmer, 39 Vine Street, Cincinnati, Ohio, for registration of a trade-mark and trade-mark registered June 20, 1916, No. 111,068, to Clark Mfg. Co., 226 Church Street, Philadelphia, Pa., and a notice of such declaration sent by registered mail to said Clark Mfg. Co. at said address having been returned by the post office authorities as undeliverable, notice is hereby given that unless said Clark Mfg. Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Nov. 6, 1923.*

Phila Marton Shugart, his assigns or legal representatives, take notice:

An interference having been declared by this Office between Frederick Martin Burns, 135 North Fulton Avenue, Mount Vernon, N. Y.; Miller Brothers, 316 Fifth Avenue, New York, N. Y., and Phila Marton Shugart, 11 West Sixty-ninth Street, New York, N. Y., for registration of a trade-mark, and a notice of such declaration sent to said Phila Marton Shugart at the said address having been returned by the post office authorities as undeliverable, notice is hereby given that unless said Phila Marton Shugart, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Nov. 9, 1923.*

Anhydrous Battery Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Camel Dry Storage Battery Co., of 3039 Elm Street, Dallas, Tex., for registration of a trade-mark and trade-mark registered May 3, 1910, No. 77,697, to the Anhydrous Battery Company, 222–224 South Canal Street, Chicago, Ill., and a notice of such declaration sent by registered mail to said Anhydrous Battery Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Anhydrous Battery Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Nov. 10, 1923.*

George Waldron Blake, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Emily Russell Claflin, of 1407 Fifth Street, Santa Monica, Calif., for registration of a trade-mark and trade-mark registered July 21, 1896, No. 28,625, to George Waldron Blake, 202 Broadway, New York, N. Y., and a notice of such declaration sent by registered mail to said Blake at the said address having been returned by the post office undeliverable, notice is hereby given that unless said George Waldron Blake, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Changes in Classification.

(ORDER No. 2,844.)

U. S. PATENT OFFICE, *Washington, Nov. 12, 1923.*

The transfer of the following classes is hereby directed, to take effect immediately:

Class 158, Liquid and Gaseous Fuel Burners, from Division XXX to Division XIX;

Classes 236, Automatic Temperature and Humidity Regulation, and 297, Thermostats and Humidostats, from Division XIX to Division XXX.

THOMAS E. ROBERTSON,
Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 27, 1923.

[VOL. 316. No. 4.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 111,518. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed June 12, 1918.

BLUE STREAK

Comprises the words "Blue Streak" printed in block letters.

Particular description of goods.—Hose Composed of Fabric and Rubber.

Claims use since December, 1913.

Ser. No. 136,388. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROYAL COCOA CO., Jersey City, N. J. Filed Aug. 23, 1920.

Royal

Particular description of goods.—Chocolate Pudding, Powdered Cocoa, Powdered Chocolate and Cocoa.

Claims use since 1895.

Ser. No. 146,194. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALPINE CHOCOLATES COMPANY, Boston, Mass. Filed Apr. 15, 1921.

CHILLON

Trade-mark "Chillon."

Particular description of goods.—Candy.

Claims use since Jan. 15, 1920.

Ser. No. 148,860. (CLASS 39. CLOTHING.) ASKIN & MARINE COMPANY, New York, N. Y. Filed June 9, 1921.



The picture shown on drawing is merely fanciful.

Particular description of goods.—Men's Wearing Apparel—Namely, Suits; Dress, Negligee, and Work Shirts; Shoes of Leather, Rubber, Fabric, and Combinations; Hats, Coats, Underwear of Knitted and Textile Fabric, Hosiery; Gloves of Leather, Rubber, and Fabric; Suspenders, Sweaters, Belts for Personal Wear, Overcoats, Collars, and Neckties; Ladies' Wearing Apparel—Namely, Suits, Dresses; Shoes of Leather, Rubber, Fabric, and Combinations; Hats, Coats, Underwear of Knitted and Textile Fabric, Hosiery, Waists; Gloves of Leather, Rubber, and Fabric; Corsets, Petticoats, Sweaters, Belts for Personal Wear, Collars, and Neckties.

Claims use since Jan. 1, 1921.

Ser. No. 148,861. (CLASS 39. CLOTHING.) ASKIN & MARINE COMPANY, New York, N. Y. Filed June 9, 1921.



The picture on drawing is merely fanciful.

Particular description of goods.—Men's Wearing Apparel—Namely, Suits; Dress, Negligee, and Work Shirts; Shoes of Leather, Rubber, Fabric, and Combinations; Hats, Coats, Underwear of Knitted and Textile Fabric, Hosiery; Gloves of Leather, Rubber, and Fabric; Suspenders, Sweaters, Belts for Personal Wear, Overcoats, Collars, and Neckties; Ladies' Wearing Apparel—Namely, Suits, Dresses; Shoes of Leather, Rubber, Fabric, and Combinations; Hats, Coats, Underwear of Knitted and Textile Fabric, Hosiery, Waists; Gloves of Leather, Rubber, and Fabric; Corsets, Petticoats, Sweaters, Belts for Personal Wear, Collars, and Neckties.

Claims use since Jan. 1, 1921.

Ser. No. 148,862. (CLASS 39. CLOTHING.) ASKIN & MARINE COMPANY, New York, N. Y. Filed June 9, 1921.



The picture shown on the drawing is merely fanciful.

Particular description of goods.—Men's Wearing Apparel—Namely, Suits; Dress, Negligee, and Work Shirts; Shoes of Leather, Rubber, Fabric, and Combinations; Hats, Coats, Underwear of Knitted and Textile Fabric, Hosiery; Gloves of Leather, Rubber, and Fabric; Suspenders, Sweaters, Belts for Personal Wear, Overcoats, Collars, and Neckties; Ladies' Wearing Apparel—Namely, Suits, Dresses; Shoes of Leather, Rubber, Fabric, and Combinations; Hats, Coats, Underwear of Knitted and Textile Fabric, Hosiery, Waists; Gloves of Leather, Rubber, and Fabric; Corsets, Petticoats, Sweaters, Belts for Personal Wear, Collars, and Neckties.

Claims use since Jan. 1, 1921.

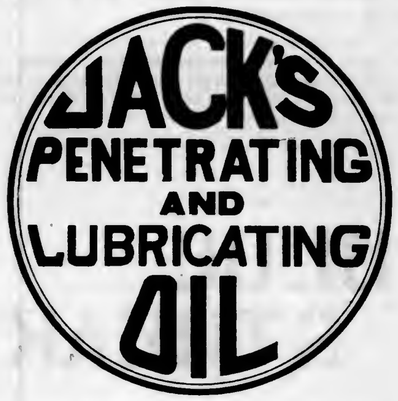
Ser. No. 154,506. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed Oct. 24, 1921.

Helio

Particular description of goods.—Dyes and Dyestuffs.

Claims use since about Jan. 20, 1904.

Ser. No. 155,069. (CLASS 15. OILS AND GREASES.) JOHN FRANKLIN PIATT, doing business as Jack's Products Company, Cape Girardeau, Mo. Filed Nov. 5, 1921.



No claim made to the words "Penetrating" and "Lubricating Oils" apart from the mark shown in the drawing.

Particular description of goods.—Penetrating Lubricating Oils.

Claims use since Oct. 20, 1921.

Ser. No. 157,385. (CLASS 39. CLOTHING.) ETHEL L. MARSHALL, Winston-Salem, N. C., assignor to American Knit Products Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 31, 1921.

Coldpruf

Particular description of goods.—Knit Skirts, Knit Princess Slips, Knit Combination Corset Cover and Skirt, and Knit Combination Waist and Skirt.

Claims use since Dec. 12, 1921.

Ser. No. 158,193. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SALVATORE PORCELL, New York, N. Y. Filed Jan. 20, 1922.

SEPCO

Particular description of goods.—Aluminum Paint.

Claims use since Dec. 1, 1921.

Ser. No. 158,560. (CLASS 15. OILS AND GREASES.) BARNSDALL REFINING COMPANY, Tulsa, Okla. Filed Jan. 28, 1922.

BE



SQUARE

Particular description of goods.—Fuel Oils, Motor-Lubricating Oils, and Lubricants.

Claims use since Mar. 1, 1921.

Ser. No. 158,736. (CLASS 39. CLOTHING.) HERMAN SACKS, Chicago, Ill. Filed Feb. 1, 1922.



No claim is made for the words "Diamond Crotch" apart from the mark shown in the drawing.

Particular description of goods.—Women's Underwear Composed of Textile Fabrics, Bloomers, Bathing and Athletic Suits.

Claims use since Dec. 15, 1921.

Ser. No. 162,319. (CLASS 32. FURNITURE AND UPHOLSTERY.) SELRITE PRODUCTS INC., New York, N. Y. Filed Apr. 14, 1922.



No claim is made to the word "Line" appearing on the drawing apart from the mark shown.

Particular description of goods.—Children's Furniture—Namely, Bassinets, Children's Beds and Cribs, Wardrobes, Chifforobes, Chiffoniers, Chairs, Tables, Rocking Chairs, Nursery Chairs, High Chairs, Clothes Trees, and Costumers.

Claims use since about Dec. 21, 1921.

Ser. No. 162,536. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROY J. BURGESS, doing business as E-Z Fluff Manufacturing Company, New York, N. Y. Filed Apr. 19, 1922.

E-Z-FLUFF

Particular description of goods.—Meringue and Icing Powder.

Claims use since Feb. 17, 1922.

Ser. No. 163,188. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) STEWART-WARNER SPEEDOMETER CORPORATION, Chicago, Ill. Filed May 1, 1922.

Stewart

The trade-mark is a facsimile of the signature of the founder and first president of this corporation.

Particular description of goods.—Automotive Radiator Caps.

Claims use since about Dec. 15, 1922.

Ser. No. 163,673. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DELICO PRODUCTS COMPANY, Sheridan, Wyo. Filed May 11, 1922.

Delico

Particular description of goods.—Frozen Confections and a Preparation Composed Principally of Corn Sirup, Cane Sugar, and Egg Albumen and Used as a Base for Frozen Confections and as a Topping for Fruit Desserts, Icings for Cake, Meringue for Pies, and a Filler for Cream Puffs and the Like.

Claims use since about Feb. 28, 1922.

Ser. No. 164,085. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SOPHIE MAE CANDY CORPORATION, doing business as Sophie Mae, Atlanta, Ga. Filed May 18, 1922.

STRAWBERRY COCKTAIL

Particular description of goods.—Candies.

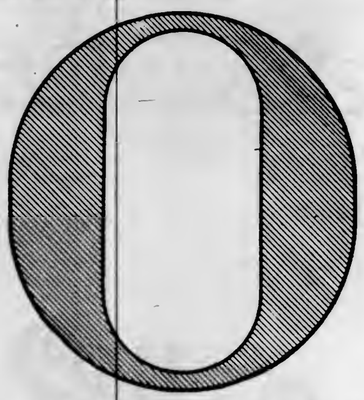
Claims use since May 8, 1922.

Ser. No. 164,927. (CLASS 39. CLOTHING.) LEHIGH SILK HOSIERY MILLS, INC., New York, N. Y. Filed June 3, 1922.

SILVERLINE

Particular description of goods.—Hosiery.
Claims use since November, 1921.

Ser. No. 165,570. (CLASS 15. OILS AND GREASES.) SPOKANE WYOMING PETROLEUM COMPANY, Lander, Wyo. Filed June 15, 1922.



The shading on the drawing is to indicate the color green.

Particular description of goods.—Gasoline, Naphtha, Benzene, Kerosene, Fuel Oil, Gas Oil, Paraffin Waxes, Lubricating Distillates, Lubricating By-Products Obtained from the Distillation of Crude Oil, Saponified and Solidified Greases Made from Petroleum for Lubricating, and Blends of the Various Oils and Distillates for Lubricating.

Claims use since Aug. 1, 1921.

Ser. No. 165,942. (CLASS 39. CLOTHING.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 23, 1922.

Security

Particular description of goods.—Suspenders, Arm Bands, and Men's Belts.

Claims use since July, 1906, on suspenders; since January, 1912, on arm bands and men's belts.

Ser. No. 166,388. (CLASS 15. OILS AND GREASES.) MARINE OIL COMPANY, LTD., New Orleans, La. Filed July 1, 1922.

EUREKA

Particular description of goods.—Machine Oil.
Claims use since July, 1902.

Ser. No. 166,832. (CLASS 39. CLOTHING.) GEORGE P. IDE & COMPANY, INC., Troy, N. Y. Filed July 13, 1922.

ZEPHYROX

Particular description of goods.—Outer Dress Shirts.
Claims use since June 1, 1922.

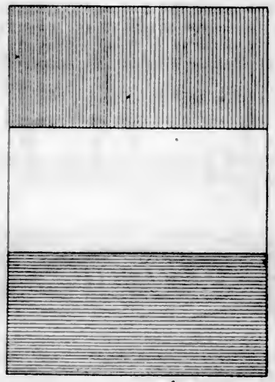
Ser. No. 167,377. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARL R. BIRCHFIEL, doing business as Easy-Go-Lax Relief Co., Maryville, Tenn. Filed July 26, 1922.



No claim made to the word "Relief" appearing on the drawing apart from the mark shown therein.

Particular description of goods.—Cold Tablets.
Claims use since Apr. 1, 1922.

Ser. No. 167,863. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BERDAN COMPANY, Toledo, Ohio. Filed Aug. 7, 1922.



The drawing is lined to show color, the upper portion being red and the bottom portion blue, separated by the intermediate white portion.

Particular description of goods.—Coffee and Tea.
Claims use since December, 1914.

Ser. No. 168,822. (CLASS 39. CLOTHING.) LORIS UNDERGARMENT CO. INC., New York, N. Y. Filed Aug. 16, 1922.

Loris

Particular description of goods.—Underwear—Namely, Ladies' Silk Underwear Made of Textile Fabric.
Claims use since Aug. 1, 1922.

Ser. No. 168,484. (CLASS 38. PRINTS AND PUBLICATIONS.) NIAGARA LITHOGRAPH CO., Buffalo and New York, N. Y. Filed Aug. 19, 1922.

Jithotone

Particular description of goods.—Lithographs.
Claims use since February, 1918.

Ser. No. 169,728. (CLASS 32. FURNITURE AND UPHOLSTERY.) ONEIDA COMMUNITY LIMITED, Oneida, N. Y. Filed Sept. 20, 1922.

ADD-A-PIECE

Particular description of goods.—Display Chests or Cabinets for Silverware or other Similar Articles.
Claims use since Aug. 7, 1922.

Ser. No. 170,461. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WYNNE LARD & PROVISION CO. INC., Norfolk, Va. Filed Oct. 7, 1922.

ERMCO BRAND

No claim is made to the exclusive use of the word "Brand."

Particular description of goods.—Lard Substitute.
Claims use since Mar. 15, 1921.

Ser. No. 170,482. (CLASS 39. CLOTHING.) GERALDINE HAT CO., New York, N. Y. Filed Oct. 9, 1922.



The right to the exclusive use of the words "Hat—Paris—New York" is disclaimed except as associated with the other features of the trade-mark shown in the drawing.

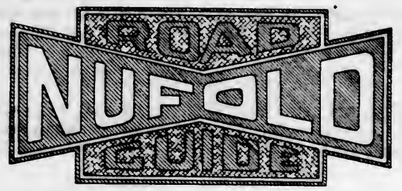
Particular description of goods.—Women's, Misses', and Children's Hats.
Claims use since June, 1920.

Ser. No. 170,559. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CENTRAL WHOLESALE GROCERS, INC., Chicago, Ill. Filed Oct. 11, 1922.

ELMDALE

Particular description of goods.—Canned Vegetables.
Claims use since Aug. 1, 1922.

Ser. No. 170,800. (CLASS 38. PRINTS AND PUBLICATIONS.) UNITED STATES SURVEY COMPANY, INCORPORATED, Rochester, N. Y. Filed Oct. 16, 1922.



The words "Road Guide" are disclaimed apart from the mark shown. The shading of the trade-mark as indicated on the drawing is disclaimed.

Particular description of goods.—Road Maps and Printed Road Guides Published in the Form of a Book in a Continuing Series.
Claims use since May 10, 1921.

Ser. No. 171,916. (CLASS 39. CLOTHING.) HODGMAN RUBBER COMPANY, Yonkers, N. Y. Filed Nov. 13, 1922.



Applicant disclaims any registration rights in the words "Kap Kovr" apart from the mark shown and apart from the particular manner of displaying these words in said mark; but by such disclaimer applicant waives none of its common-law rights in said mark nor any part thereof.

Particular description of goods.—Waterproof Covers for Hats and Caps.
Claims use since Oct. 27, 1922.

Ser. No. 172,751. (CLASS 45. BEVERAGES, NONALCOHOLIC.) THE LYONS BROS. CO., doing business as The Cheery Tip Co., Dallas, Tex. Filed Dec. 1, 1922.

Cheery Tip.

Particular description of goods.—Nonintoxicating, Nonalcoholic, Maltless Fruit Beverage Sold as a Soft Drink and Sirups Used in the Preparation of Same.
Claims use since April, 1914.

Ser. No. 174,126. (CLASS 15. OILS AND GREASES.) THE CENTRAL OHIO OIL COMPANY, Columbus, Ohio. Filed Jan. 3, 1923.

PEERLESS

Trade-mark "Peerless."
Particular description of goods.—Gasoline.
Claims use since Jan. 1, 1895.

Ser. No. 174,242. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Jan. 6, 1923.

A-W-T

Particular description of goods.—Vehicle Tires and Tubes Composed Wholly or in Part of Rubber.
Claims use since July, 1916.

Ser. No. 175,114. (CLASS 15. OILS AND GREASES.) U. S. OIL COMPANY, Providence, R. I. Filed Jan. 25, 1923.

VELVET

Particular description of goods.—Lubricating Oils and Greases.
Claims use since Feb. 1, 1908.

Ser. No. 175,121. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BARNARDS, Schaller, Iowa. Filed Jan. 26, 1923.



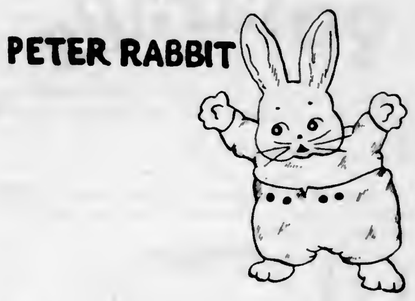
No claim is made to the exclusive use of the words "Bars," "10 cts," "A Popcorn Confection and A Delicious Food Made By," and "Schaller, Iowa."
Particular description of goods.—Pop-Corn Confection.
Claims use since Sept. 1, 1921.

Ser. No. 175,978. (CLASS 39. CLOTHING.) THOMAS H. BROWN, doing business as Thos. E. Brown & Sons, Philadelphia, Pa. Filed Feb. 13, 1923.



The drawing was lined for shading only.
Particular description of goods.—Hosiery.
Claims use since about Jan. 17, 1923.

Ser. No. 176,090. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE NEWTON TEA & SPICE CO., Cincinnati, Ohio. Filed Feb. 15, 1923.



Particular description of goods.—Peanut Butter.
Claims use since on or about July 10, 1922.

Ser. No. 176,282. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IRA HAVEN RAGSDALE, doing business as Mrs. Ragsdale, Incorporated, San Antonio, Tex. Filed Feb. 19, 1923.



All the descriptive and geographical reading made on the drawing—namely, "Fifty Days Fresher, Fifty Percent Better, Not Artificially Colored, Contains No Filler, Home Made Mayonnaise, Manufactured by, San Antonio, Texas, Net Weight 9 oz., Made in San Antonio, Used Everywhere"—is hereby disclaimed apart from the other features of the mark.
Particular description of goods.—Mayonnaise Salad Dressing and Thousand Island Salad Dressing.
Claims use since Nov. 1, 1922.

Ser. No. 176,483. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS B. LAMB, New York, N. Y. Filed Feb. 23, 1923.

KIDDYLAND

Particular description of goods.—Talcum Powder.
Claims use since Sept. 15, 1922.

Ser. No. 176,564. (CLASS 39. CLOTHING.) MIRACLE DRESS CO., INC., New York, N. Y. Filed Feb. 24, 1923.

Little

Nellie

Kelly

The name "Little Nelly Kelly" has been adopted from the play and from the song "Little Nelly Kelly I Love You."
Particular description of goods.—Dresses, Gowns, Costumes, Waists, Skirts, Ladies' and Girls' Hats and Neckscarfs.
Claims use since Feb. 1, 1923.

Ser. No. 176,600. (CLASS 39. CLOTHING.) CARLEY, RICE COMPANY, Milwaukee, Wis. Filed Feb. 26, 1923.

RADIO

Particular description of goods.—Underwear for Men, Other Than Knitted; Dress, Negligee, and Work Shirts; Duck, Moleskin, Leather, and Mackinaw Clothing, Such as Sheepskin Lined Vests and Coats. Also Pants.
Claims use since Jan. 15, 1923.

Ser. No. 177,086. (CLASS 2. RECEPTACLES.) KAUSTINE COMPANY, INC., Buffalo, N. Y. Filed Mar. 7, 1923.

Kaustine

Particular description of goods.—Tanks for Chemical Toilets, Septic Tanks, Sewage-Disposal Tanks, Settling Basins, Sedimentation Tanks, and Storage Tanks for Various Purposes.
Claims use since about Jan. 7, 1914.

Ser. No. 177,516. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) JULIUS RICHTER, doing business as Globe Import Company, New York, N. Y. Filed Mar. 15, 1923.

GALALINE

The mark consists of the word "Galaline."
Particular description of goods.—Manicure Sets.
Claims use since Aug. 5, 1922.

Ser. No. 177,525. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) SMITH & GREGORY, New York, N. Y. Filed Mar. 15, 1923.

Auto Caddy

Particular description of goods.—Golf-Bag Holders—Namely, Racks or Holders Which are Specially Adapted to be Attached to Automobiles.
Claims use since Sept. 1, 1922.

Ser. No. 177,620. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS). WARREN P. RASH CO., INC., Middlesboro, Ky. Filed Mar. 17, 1923.

BIG 3

Particular description of goods.—Glycerin and Rose Water, Sweet Spirits of Niter, and Turpentine for Medicinal Purposes.
Claims use since November, 1921.

Ser. No. 177,924. (CLASS 38. PRINTS AND PUBLICATIONS.) PRUDENCE-BONDS CORPORATION, New York and Brooklyn, N. Y. Filed Mar. 23, 1923.



Without waiving any common-law rights the language "A Form of Investment as Old as the Pyramids" apart from the mark as shown is disclaimed.
Particular description of goods.—Vendible Coupon Bonds, Coupons, Certificate of Stocks, Evidences of Indebtedness Such as Mortgages and Certificates, and Advertising Publications—Namely, Printed Booklets and Periodical Publications of General Interest.
Claims use since on or about Dec. 1, 1919.

Ser. No. 178,098. (CLASS 39. CLOTHING). WILLIAM GREILICH & SONS, INC., Brooklyn, N. Y. Filed Mar. 27, 1923.

polaralls

Particular description of goods.—Infants' Suits, Consisting of Coat, Leggings, Cap, and Mittens Made of Fabrics.
Claims use since Jan. 22, 1923.

Ser. No. 178,163. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERMAN BRUNE, New York, N. Y. Filed Mar. 28, 1923.

Venida

Particular description of goods.—Candies.
Claims use since Mar. 23, 1923.

Ser. No. 178,394. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. & W. LINDT, Berne, Switzerland. Filed Mar. 31, 1923.



No claim is made to the words "Berne (Suisse) (Switzerland)," "Chocolate," "Marque Deposee," "Fabrique de Chocolat," and "Specialite Qualites Fines" apart from the mark shown upon the drawing, although applicants specifically reserve all common-law rights thereto.
Particular description of goods.—Cocoas; Raw and Prepared Chocolate in Plates, Blocks, Tablets, Sticks, Balls, Powders, or Any Other Form and Shape; Stuffed Chocolate, Milk and Cream Chocolate, Chocolate Combined with Sirup, Chocolate Combined with Nuts or Fruits of Any Kind, and Chocolate Paste.
Claims use since 1913.

Ser. No. 178,395. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. & W. LINDT, Berne, Switzerland. Filed Mar. 31, 1923.



No claim is made to the words "Swiss Milk Chocolate," "Berne Suisse Switzerland," "Specialite Qualites Fines," "Marque Deposee," "Finest Swiss Milk Chocolate," "Milch Chocolade," and "Chocolat au Lait" apart from the mark shown upon the drawing, although applicants specifically reserve all common-law rights thereto.
Particular description of goods.—Cocoas; Raw and Prepared Chocolate in Plates, Blocks, Tablets, Sticks, Balls, Powders, or Any Other Form and Shape; Stuffed Chocolate, Milk and Cream Chocolate, Chocolate Combined with Sirup, Chocolate Combined with Nuts or Fruits of Any Kind, and Chocolate Paste.
Claims use since 1913.

Ser. No. 178,396. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. & W. LINDT, Berne, Switzerland. Filed Mar. 31, 1923.



DÉJEUNERS

No claim is made to the words "Berne (Suisse) Switzerland," "Fabrique De Chocolat," "Specialite Qualites Fines," "Marque Deposee," "Dejeuners" and "Vanille Extrafin" apart from the mark shown upon the drawing, although applicants specifically reserve all common-law rights thereto.
Particular description of goods.—Cocoas; Raw and Prepared Chocolate in Plates, Blocks, Tablets, Sticks, Balls, Powders, or Any Other Form and Shape; Stuffed Chocolate, Milk and Cream Chocolate, Chocolate Combined with Sirup, Chocolate Combined with Nuts or Fruits of Any Kind, and Chocolate Paste.
Claims use since 1913.

Ser. No. 178,397. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. & W. LINDT, Berne, Switzerland. Filed Mar. 31, 1923.



No claim is made to the words "Fabrique De Chocolat," "Specialite: Qualites Fines," "Berne (Suisse) (Switzerland)," and "Marque Deposee" apart from the mark shown upon the drawing, although applicants specifically reserve all common-law rights thereto.
Particular description of goods.—Cocoas; Raw and Prepared Chocolate in Plates, Blocks, Tablets, Sticks, Balls, Powders, or Any Other Form and Shape; Stuffed Chocolate, Milk and Cream Chocolate, Chocolate Combined with Sirup, Chocolate Combined with Nuts or Fruits of Any Kind, and Chocolate Paste.
Claims use since 1913.

Ser. No. 178,398. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. & W. LINDT, Berne, Switzerland. Filed Mar. 31, 1923.



No claim is made to the words "Marque Deposee," "Finest Swiss Chocolate," "Chocolats Fines Suisses," "Berne Suisse Switzerland," and "Chocolat au Lait & Nougat" apart from the mark shown upon the drawing, although applicants specifically reserve all common-law rights thereto.
Particular description of goods.—Cocoas; Raw and Prepared Chocolate in Plates, Blocks, Tablets, Sticks, Balls, Powders, or Any Other Form and Shape; Stuffed Chocolate, Milk and Cream Chocolate, Chocolate Combined with Sirup, Chocolate Combined with Nuts or Fruits of Any Kind, and Chocolate Paste.
Claims use since 1913.

Ser. No. 178,501. (CLASS 39. CLOTHING.) BENJAMIN GOLDWASSER, New York, N. Y. Filed Apr. 3, 1923.

Flo-Frocks

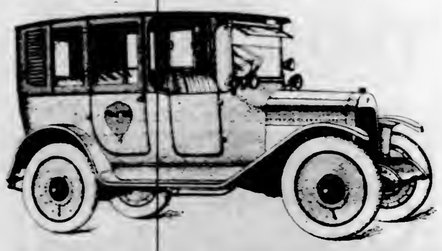
No rights are asserted to the exclusive use of the word "Frocks" apart from the mark as shown in the drawing.
Particular description of goods.—Ladies' Wearing Apparel—Namely, Frocks, Dresses, and Skirts.
Claims use since Jan. 1, 1921.

Ser. No. 178,557. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE EASTERN FOUNDRY COMPANY, Boyertown, Pa. Filed Apr. 4, 1923.

EAFCO

Particular description of goods.—Cast-Iron Pipes, Cast-Iron Bends, T's, Y's, and Drainage Traps.
Claims use since Aug. 23, 1922.

Ser. No. 178,794. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) YELLOW CAB MANUFACTURING Co., Chicago, Ill. Filed Apr. 7, 1923.



The vertical lines in the upper part of the drawing indicate the red color of the top of the vehicles to which the trade-mark is applied. The vertical lines on the spinning-top emblem also denote the color red. The lower portion of the vehicle body is gray in color. The representation of a vehicle appearing in the mark does not form a part of the registration sought apart from the mark shown in the drawing. The trade-mark consists of the words "Red Top" used in connection with the color red on the top of the goods and a representation of a spinning top colored red.

Particular description of goods.—Motor-Driven Vehicles—Namely, Automobile Taxicabs.

Claims use since July 25, 1922.

Ser. No. 179,034. (CLASS 12. CONSTRUCTION MATERIALS.) THE JOHN D. EMACK COMPANY, Philadelphia, Pa. Filed Apr. 12, 1923.

Thatchslate

Particular description of goods.—Roofing Slate.

Claims use since on or about Feb. 3, 1923.

Ser. No. 179,215. (CLASS 45. BEVERAGES, NONALCOHOLIC.) NATIONAL CHEMICAL PRODUCTS CO. INC., Union, N. J. Filed Apr. 16, 1923.

MATOKA

Particular description of goods.—Nonalcoholic, Maltless, Beverage, Beverage Sirup, and Beverage Concentrate Used as a Soft Drink.

Claims use since Mar. 1, 1923.

Ser. No. 179,313. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) NATIONAL COMPOUND CO., INC., Boston, Mass. Filed Apr. 18, 1923.

DUZZIT

"DOES IT"

Particular description of goods.—Black Enamel and Rubber Paint.

Claims use since Feb. 1, 1923.

Ser. No. 179,468. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) ABRAHAM GRINBERG, doing business as The Chesterfield Tire and Rubber Co. (Not Incorporated), Chicago, Ill. Filed Apr. 21, 1923.

CHESTERFIELD CORD

No claim is made to the word "Cord" apart from the mark shown.

Particular description of goods.—Solid Rubber Tires, Pneumatic Rubber Tires, and Tires Composed of Rubber Fabric.

Claims use since Jan. 20, 1923.

Ser. No. 179,535. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HUMBIRD CANNING CO., Humbird, Wis. Filed Apr. 23, 1923.

NORTHLAND

Particular description of goods.—Canned Berries and Canned Vegetables.

Claims use since September, 1922.

Ser. No. 179,870. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) R. M. KELLOGG CO., Three Rivers, Mich. Filed Apr. 28, 1923.

KELLOGG'S Rockhill

No claim is made to the representation of a strawberry or to the words "America's Greatest Everbearer" or to the word "Rockhill" apart from the mark shown, the applicant, however, not disclaiming any common-law rights it may have therein.

Particular description of goods.—Strawberry Plants.

Claims use since Apr. 12, 1923.

Ser. No. 179,871. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) R. M. KELLOGG CO., Three Rivers, Mich. Filed Apr. 28, 1923.

Rockhill

The trade-mark is a facsimile signature of Harlow Rockhill.

Particular description of goods.—Strawberry Plants.

Claims use since Apr. 12, 1923.

Ser. No. 180,262. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) AMERICAN WHOLESALE CORPORATION (BALTIMORE BARGAIN HOUSE), Baltimore, Md. Filed May 7, 1923.

Elite

Particular description of goods.—Sewing Needles (Both Gold and Silver Eyes), Crewel and Embroidery Needles, Milliners' Needles, Darning Needles, and Crochet Hooks and Thimbles (Nonprecious Metal).

Claims use since Sept. 1, 1919.

Ser. No. 180,315. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) YELLOW CAB MANUFACTURING Co., Chicago, Ill. Filed May 7, 1923.

CANARY

Particular description of goods.—Motor-Driven Vehicles—Namely, Automobile Taxicabs.

Claims use since Apr. 17, 1923.

Ser. No. 180,342. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARTHUR M. SAMSON, doing business as Le Baur Importing Co., New Orleans, La. Filed May 8, 1923.



Particular description of goods.—Essence of Perfume Extracts, Poudre Adherent (Face Powder), Cleansing Cream, Vanishing Cream, Crème Blanche, Bleaching Cream, Rouge Eau Toilettes (Toilet Water).

Claims use since Jan. 6, 1923.

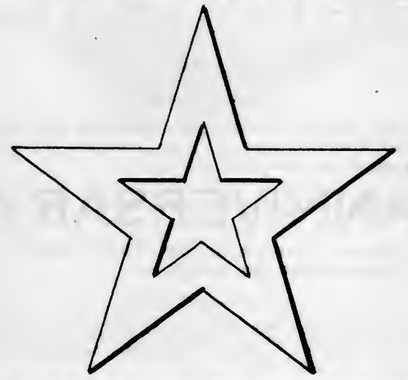
Ser. No. 180,616. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NORTH AMERICAN TOY CO., INC., New York, N. Y. Filed May 14, 1923.

ZELLOPHONE

Particular description of goods.—Toy Pianos.

Claims use since Apr. 15, 1922.

Ser. No. 180,689. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) COAST SPECIALTY SALES COMPANY, Oakland, Calif. Filed May 16, 1923.



Particular description of goods.—Scuff and Step Plates for Vehicles.

Claims use since Nov. 10, 1922.

Ser. No. 180,700. (CLASS 39. CLOTHING.) GROSNER, MILICH COMPANY, INC., New York, N. Y. Filed May 16, 1923.

Parklane

Particular description of goods.—Men's Dress, Negligee, and Work Shirts and Men's Collars, Cravats, Nightshirts, and Pyjamas.

Claims use since Apr. 1, 1923.

Ser. No. 180,875. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JACOB A. MEINHARDT, doing business as J. A. Meinhardt Company, Chicago, Ill. Filed May 19, 1923.

HANDY AID

Particular description of goods.—Furniture and Automobile Cleaner Having Incidental Properties as a Polish, Also Enamel Cleaner.

Claims use since Jan. 2, 1923.

Ser. No. 181,111. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) C. F. CHURCH MANUFACTURING CO., Holyoke, Mass. Filed May 25, 1923.

Church sani-white Seats

The word "Seats" is disclaimed apart from the mark as shown in the drawing.

Particular description of goods.—Bathroom Fixtures, Particularly the Seats, Covers, and Hinges for the Seats and Covers of Toilets.

Claims use since Apr. 1, 1923.

Ser. No. 181,126. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) KATZ & OGUSH, INC., New York, N. Y. Filed May 25, 1923.

ANNIVERSARY

Particular description of goods.—Finger Rings.

Claims use since Apr. 16, 1923.

Ser. No. 181,194. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) KREMENTZ & COMPANY, Newark, N. J. Filed May 26, 1923.

NU KAL

Particular description of goods.—Collar Buttons of Solid Gold and of Rolled Gold Plate.

Claims use since about 1907.

Ser. No. 181,299. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE H. A. MARR GROCERY CO., Denver, Colo. Filed May 28, 1923.



The lining of drawing indicates red coloring, and the face is fanciful.

Particular description of goods.—Canned Vegetables—Namely, Peas and Corn; Canned Fruits—Namely, Plums, Apricots, Peaches, and Grapes; Spices, Food-Flavoring Extracts; Coffee, Breakfast Cereals, Waffle and Pancake Flour, and Buckwheat Flour.

Claims use since 1915.

Ser. No. 181,413. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) HARRY RATNER, doing business as Rogers & Co., Columbus, Ohio. Filed May 31, 1923.

ROGERS & CO.

Particular description of goods.—Jewelry—Namely, Finger Rings, Precious Stones, Ornamental Pins, Watch Chains, Neck Chains, and Bracelets.

Claims use since 1918.

Ser. No. 181,434. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CORA EMILY CHAPMAN, San Bernardino, Calif. Filed June 1, 1923.



Particular description of goods.—Nonalcoholic, Malt-less Beverage, Both Carbonated and Still, and Sirup for Making the Same.

Claims use since May 12, 1923.

Ser. No. 181,448. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOURNAY, INC., Milwaukee, Wis. Filed June 1, 1923.



Particular description of goods.—Talcum Powder, Face Powder, Bath Talcum, and Perfume.

Claims use since Mar. 1, 1923.

Ser. No. 181,473. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BLACKBURN PRODUCTS COMPANY, Dayton, Ohio. Filed June 2, 1923.

Dr. Baker's



Lewis Baker M. D.

The name of the individual whose portrait appears on the drawing is Dr. Lewis Baker.

Particular description of goods.—Medicine Particularly for Rheumatism.

Claims use since May, 1921.

Ser. No. 181,872. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANDARD OIL COMPANY (NEW JERSEY), Bayonne, N. J. Filed June 11, 1923.

FLIT

Particular description of goods.—Insecticide.

Claims use since May 17, 1923.

Ser. No. 181,899. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAWLOR-MCCORMICK CO., New Brunswick, N. J. Filed June 12, 1923.



Particular description of goods.—Moth and Insect Preventive.

Claims use since Apr. 25, 1923.

Ser. No. 181,936. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PASQUALE ADELBERTO CAPORALE, doing business as Leoncavallo Sauce Company, Philadelphia, Pa. Filed June 13, 1923.

LEONCAVALLO

THE LEONCAVALLO SAUCE CO.

Particular description of goods.—Spaghetti, Spaghetti Sauces, and Cheese.

Claims use since May 2, 1923.

Ser. No. 181,937. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PASQUALE ADELBERTO CAPORALE, doing business as Leoncavallo Sauce Company, Philadelphia, Pa. Filed June 13, 1923.

Leoncavallo

Particular description of goods.—Spaghetti, Spaghetti Sauces, and Cheese.

Claims use since May 2, 1923.

Ser. No. 181,938. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PASQUALE ADELBERTO CAPORALE, doing business as Leoncavallo Sauce Company, Philadelphia, Pa. Filed June 13, 1923.



No claim is made for the term "Philadelphia, Pa."

Particular description of goods.—Spaghetti, Spaghetti Sauces, and Cheese.

Claims use since May 2, 1923.

Ser. No. 182,097. (CLASS 39. CLOTHING.) A. JAECKEL & Co., New York, N. Y. Filed June 16, 1923.

A-JEK-L

Particular description of goods.—Manufactured Furs—Namely, Scarfs, Muffs, Coats, and Wraps.
Claims use since Sept. 10, 1922.

Ser. No. 182,159. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LUCIDO BROTHERS GROCERY COMPANY, Granite City, Ill. Filed June 18, 1923.

Lucido's QUALITY



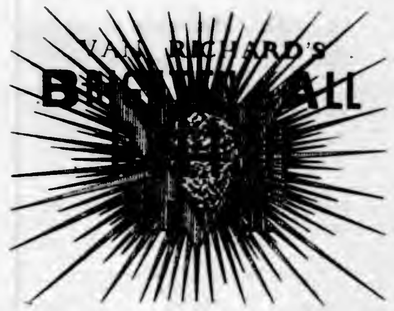
The word "Quality" does not form a part of the mark sought to be registered apart from the mark shown in the drawing.
Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since Apr. 2, 1023.

Ser. No. 182,370. (CLASS 7. CORDAGE.) WHITLOCK CORDAGE CO., Jersey City, N. J., and New York, N. Y. Filed June 22, 1923.



Drawing comprises a compound yarn formed of two separate yarns of orange and black, said yarn forming one of the strain-bearing elements of the rope; no claim made to the exclusive use of the representation of the rope apart from the mark as shown in the drawing.
Particular description of goods.—Vegetable-Fiber Rope.
Claims use since Apr. 1, 1923.

Ser. No. 182,481. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) RICHARD A. OAKLEY, doing business as Benn Chemical Co., Philadelphia, Pa. Filed June 26, 1923.



No claim is made to the words "Brighten All" and "Polish" apart from the mark as shown, and the lining in the drawing conventionally represents the colors red and yellow.
Particular description of goods.—Cleaning and Polishing Preparation for Pianos, Furniture, Woodwork, and Other Highly-Finished Surfaces.
Claims use since on or about Jan. 15, 1923.

Ser. No. 182,483. (CLASS 39. CLOTHING.) J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y. Filed June 26, 1923.

PAY TIME

Particular description of goods.—Men's and Boys' Ready-to-Wear Clothing—Namely, Overalls and Work Jackets Made of Drill and Denim Materials.
Claims use since Jan. 10, 1923.

Ser. No. 182,494. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ASHAWAY LINE & TWINE MANUFACTURING COMPANY, Ashaway, R. I. Filed June 27, 1923.

CAST EASE

The trade-mark consists of the words "Cast Ease."
Particular description of goods.—Fishing Line.
Claims use since June 10, 1923.

Ser. No. 182,537. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE GUMMED PRODUCTS COMPANY, Troy, Ohio. Filed June 28, 1923.

Magic

Particular description of goods.—Dress Forms.
Claims use since Feb. 16, 1921.

Ser. No. 182,652. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) COHN & ROSENBERGER INC., New York, N. Y. Filed June 30, 1923.

Mah = Jongg

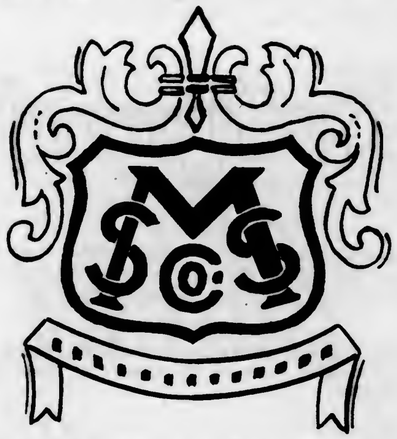
Trade-mark consists of the words "Mah-Jongg."
Particular description of goods.—Jewelry for Personal Wear, Not Including Watches, and Metal Pencils, Vanity Cases, Puff Boxes, Coin Purses, Mesh Bags, and Metal Purses, All of Precious Metal or Plated with Precious Metal, and Imitation-Pearl Beads.
Claims use since June 15, 1923.

Ser. No. 182,706. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ELECTRIC BOAT COMPANY, Bayonne, N. J. Filed July 2, 1923.

VEEDETTE

Particular description of goods.—Boats.
Claims use since Jan. 1, 1923.

Ser. No. 182,726. (CLASS 39. CLOTHING.) SIMON MILLINERY SUPPLY CO., San Francisco, Calif. Filed July 2, 1923.



Particular description of goods.—Ladies' Trimmed, Tailored, and Sport Hats.
Claims use since January, 1916.

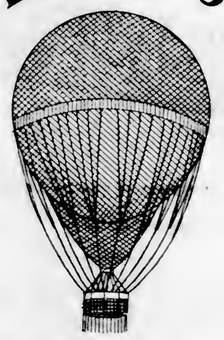
Ser. No. 182,908. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HARTWELL BROTHERS, Memphis, Tenn. Filed July 7, 1923.

·AXEMAN'S PRIDE·

Particular description of goods.—Axe, Adze, Pick, Sledge, Maul, Hammer and Hatchet, and Railroad and Mining Tool Handles.
Claims use since July 1, 1904.

Ser. No. 182,952. (CLASS 39. CLOTHING.) N. ADOT Y HNO., Buenos Aires, Argentina. Filed July 9, 1923.

"EL GLOBO"



Particular description of goods.—Hempen Pumps (Alpargatas).
Claims use since about Jan. 1, 1902.

Ser. No. 182,982. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE H. H. MILLER INDUSTRIES COMPANY, Canton, Ohio. Filed July 9, 1923.



Particular description of goods.—Bottle Filling and Capping Machines; Dairy Machinery—Namely, Aerators, Coolers, Heaters, Pasteurizers, Vats—and Parts and Fittings for Bottle Filling and Capping Machines and Dairy Machinery.
Claims use since June, 1917.

Ser. No. 182,986. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MUELLER-KELLER CANDY COMPANY, St. Joseph, Mo. Filed July 9, 1923.

Annie Laurie

Particular description of goods.—Chocolate Candy.
Claims use since Mar. 8, 1923.

Ser. No. 183,039. (CLASS 15. OILS AND GREASES.) MOTIVE LUBRICANT CORPORATION, Detroit, Mich. Filed July 10, 1923.

PENNROCK

Particular description of goods.—Lubricating Oils and Greases.
Claims use since June 15, 1923.

Ser. No. 183,073. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALBERT LEO, doing business as Leo Pectin Company, St. Joseph, Mo. Filed July 11, 1923.

LEO'S

PURE APPLE PECTIN WITH CELROSE (REFINED CORN SUGAR) AND PURE FRUIT ACID (TARTARIC)

No claim made to the exclusive use of the words "Pure Apple Pectin with Cerelose (Refined Corn Sugar) and Pure Fruit Acid (Tartaric)" apart from the mark as shown in the drawing.
Particular description of goods.—Pectin.
Claims use since June 6, 1923.

Ser. No. 183,101. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ESCO MANUFACTURING CO., New York, N. Y. Filed July 12, 1923.

NEEDLELESS

Particular description of goods.—Specially-Treated Strings Used for Stringing Thereon Ornamental Beads.
Claims use since Apr. 1, 1923.

Ser. No. 183,102. (CLASS 32. FURNITURE AND UPHOLSTERY.) WILLIAM S. FERRIS, doing business as Domore Chair Company, Elkhart, Ind. Filed July 12, 1923.

"DOMORE"

Trade-mark "Domore."
Particular description of goods.—Office, Household, and Factory Chairs.
Claims use since July 2, 1923.

Ser. No. 183,121. (CLASS 39. CLOTHING.) PHILLIPS-JONES CORPORATION, New York, N. Y. Filed July 12, 1923.

KILLARNEY

Particular description of goods.—Dress Shirts, Negligee Shirts, Work Shirts, Boys' Blouses, and Pyjamas.
Claims use since January, 1923.

Ser. No. 183,249. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BRIDGE-SULLIVAN MANUFACTURING COMPANY, Seattle, Wash. Filed July 16, 1923.

Driftwood

Particular description of goods.—Stains, Varnishes, Fillers, and Lac and Paste and Ready-Mixed Paints.
Claims use since Mar. 6, 1923.

Ser. No. 183,297. (CLASS 39. CLOTHING.) INTERNATIONAL SHOE COMPANY, St. Louis, Mo. Filed July 16, 1923.

Pluck

Particular description of goods.—Men's Shoes of Leather.
Claims use since 1902.

Ser. No. 183,303. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) KREMER METAL PRODUCTS CO., Chicago, Ill. Filed July 16, 1923.

THE HUMMER

Particular description of goods.—Sheet-Metal Gasoline Stoves for Use by Campers.
Claims use since May, 1922.

Ser. No. 183,387. (CLASS 12. CONSTRUCTION MATERIALS.) KENTUCKY ROCK ASPHALT COMPANY, Louisville, Ky. Filed July 18, 1923.

KENTUCKY ROCK Kyrock ASPHALT

The words "Kentucky Rock Asphalt" are hereby disclaimed apart from the mark as shown.
Particular description of goods.—Asphalt.
Claims use since April, 1921.

Ser. No. 183,398. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE MURALO COMPANY, INC., New Brighton, N. Y. Filed July 18, 1923.

VICTORY

Particular description of goods.—Calcimines in Dry Powder.
Claims use since Feb. 11, 1918.

Ser. No. 183,435. (CLASS 38. PRINTS AND PUBLICATIONS.) THE DERRICK PUBLISHING COMPANY, Oil City, Pa. Filed July 19, 1923.

THE OIL CITY DERRICK.

"The Oil City Derrick."
Particular description of goods.—A Daily Periodical.
Claims use since on or about 1871.

Ser. No. 183,436. (CLASS 38. PRINTS AND PUBLICATIONS.) THE DERRICK PUBLISHING COMPANY, Oil City, Pa. Filed July 19, 1923.

Oil City Weekly Derrick.

"Oil City Weekly Derrick."
Particular description of goods.—A Weekly Periodical.
Claims use since on or about Dec. 31, 1880.

Ser. No. 183,439. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) DIAMOND STATE FIBRE COMPANY, Elsmere, Del., and Bridgeport, Pa. Filed July 19, 1923.



No claim is made to the representation of the goods apart from the mark as shown. The drawing is lined for black.
Particular description of goods.—Laminated Phenolic Condensation Product Made by Impregnating Materials, Such as Certain Grades of Paper and Fabric, with a Combination of Phenol and Formaldehyde or Similar Synthetic Gums Hardened by Heating.
Claims use since Feb. 10, 1923.

Ser. No. 183,442. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) DIAMOND STATE FIBRE COMPANY, Elsmere, Del., and Bridgeport, Pa. Filed July 19, 1923.

INTERLINE CELORON

Particular description of goods.—Laminated Phenolic Condensation Product Made by Impregnating Materials, Such as Certain Grades of Paper and Fabric, with a Combination of Phenol and Formaldehyde or Similar Synthetic Gums Hardened by Heating.
Claims use since June 27, 1923.

Ser. No. 183,452. (CLASS 39. CLOTHING.) F. T. MARTINEZ & SONS, Brownsville, Tex. Filed July 19, 1923.

Palmez

Particular description of goods.—Hatbands.
Claims use since June 5, 1923.

Ser. No. 183,559. (CLASS 39. CLOTHING.) PANTHER RUBBER MANUFACTURING COMPANY, Stoughton, Mass. Filed July 21, 1923.

OCNAP

Particular description of goods.—Rubber Soles and Rubber Heels.
Claims use since June 21, 1923.

Ser. No. 183,560. (CLASS 39. CLOTHING.) DIXIE MAID HAT COMPANY, West Carrollton, Ohio. Filed July 23, 1923.

DIXIE MAID

Particular description of goods.—Hats.
Claims use since Jan. 1, 1923.

Ser. No. 183,640. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANKLIN ICE CREAM COMPANY, Kansas City, Mo. Filed July 25, 1923.

FRO-ZANN

Particular description of goods.—Ice Cream.
Claims use since Mar. 28, 1923.

Ser. No. 183,657. (CLASS 38. PRINTS AND PUBLICATIONS.) LEVEL CLUB, INC., New York, N. Y. Filed July 25, 1923.

The Leveler

Particular description of goods.—Pamphlets Published Semimonthly.
Claims use since Jan. 10, 1921.

Ser. No. 183,707. CLASS 39. CLOTHING.) INTERNATIONAL SHOE COMPANY, doing business as Morse & Rogers, St. Louis, Mo., and New York, N. Y. Filed July 26, 1923.

ROCK-LINE

Particular description of goods.—Leather Boots and Shoes.
Claims use since about Mar. 14, 1923.

Ser. No. 183,784. (CLASS 15. OILS AND GREASES.) LOUIS J. WILDE, Los Angeles, Calif. Filed July 27, 1923.

HOT POINT GASOLINE

The word "Gasoline" apart from the marks shown in the drawing is disclaimed.
Particular description of goods.—Gasoline.
Claims use since July 18, 1923.

Ser. No. 183,852. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN RAVIZZA, New Britain, Conn. Filed July 30, 1923.

Lu Lu

Particular description of goods.—Confections in the Form of Frozen Banana Coated with Chocolate.
Claims use since June 30, 1923.

Ser. No. 183,867. (CLASS 32. FURNITURE AND UPHOLSTERY.) WAGEMAKER COMPANY, Grand Rapids, Mich. Filed July 30, 1923.

NEOPLY

Particular description of goods.—Desks, Household Tables, Cafeteria Tables, Store Tables, Stands, Counters, and Wood Tops for the Same Sold Separately.
Claims use since May 25, 1923.

Ser. No. 183,909. (CLASS 32. FURNITURE AND UPHOLSTERY.) DOROTHY DEWEY COMSTOCK, Boston, Mass. Filed Aug. 1, 1923.

KIDDIE-RHESTER

Particular description of goods.—Collapsible Baby Crib.
Claims use since Feb. 24, 1923.

Ser. No. 183,942. (CLASS 2. RECEPTACLES.) ERNST W. FARLEY, doing business as Richmond Engineering Company, Richmond, Va. Filed Aug. 1, 1923.

RECO

Particular description of goods.—Septic Tanks, Gasoline Tanks, Gasoline Truck Tanks, Water Tanks, Insecticide Tanks, All Built of Steel Plate.
Claims use since May 1, 1921.

Ser. No. 183,961. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANNA DE BRÛLE, doing business as A. De Brûle, New York, N. Y. Filed Aug. 2, 1923.

DE BRÛLE'S GLO-EN-GLORY

Consists of the words "De Brûle's Glo-En Glory."
Particular description of goods.—Hair Tonic.
Claims use since June 26, 1923.

Ser. No. 183,962. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAROLD D. CLARK, doing business as Clark Laboratories, San Diego, Calif. Filed Aug. 2, 1923.

JIF

Particular description of goods.—Antiseptic and Healing Preparation.
Claims use since May 17, 1923.

Ser. No. 183,967. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GENERAL CHEMICAL COMPANY, New York, N. Y. Filed Aug. 2, 1923.

DRITOMIC

Particular description of goods.—Insecticides and Fungicides.
Claims use since June 9, 1923.

Ser. No. 183,982. (CLASS 38. PRINTS AND PUBLICATIONS.) LESLIE-JUDGE COMPANY, New York, N. Y. Filed Aug. 2, 1923.

JUDGE

Particular description of goods.—Periodicals Published Weekly.
Claims use since Oct. 29, 1881.

Ser. No. 184,015. (CLASS 15. OILS AND GREASES.) ASSOCIATED OIL COMPANY, San Francisco, Calif. Filed Aug. 3, 1923.



Applicant disclaims the right to the exclusive use of the words "Made in U. S. A." apart from the mark as shown on the drawing. A translation of the Chinese characters appearing above the word "Associated" literally mean "Beautiful Nation." The characters appearing at the sides of the clock, reading at the top of the right side, mean "Big Light Petroleum Company."
Particular description of goods.—Kerosene.
Claims use since about Jan. 1, 1922.

Ser. No. 184,026. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ENDAZOIN COMPANY, New York, N. Y. Filed Aug. 3, 1923.

Endazoin

Particular description of goods.—Salves and Ointments for the Skin.
Claims use since July 23, 1923.

Ser. No. 184,033. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARTIN MAILLARD, Springfield, Mass. Filed Aug. 3, 1923.

CROAKEM

Particular description of goods.—Vermin Exterminators in the Form of Paste, Powder, and Liquid for Exterminating Rats, Mice, Bedbugs, Roaches, Water Bugs, Ants, Crickets, Moths, Fleas, Silver-Fish, Etc.
Claims use since Apr. 12, 1922.

Ser. No. 184,039. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE J. PETROS, Omaha, Nebr. Filed Aug. 3, 1923.

"STAKURL"

Particular description of goods.—Liquid for Preserving Curls and Marcel Wave in the Hair.
Claims use since June 15, 1923.

Ser. No. 184,053. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANCHOR SERUM COMPANY, South St. Joseph, Mo. Filed Aug. 4, 1923.



Particular description of goods.—Anti-Hog-Cholera Serum.
Claims use since July 1, 1917.

Ser. No. 184,096. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS PHILIPPE, New York, N. Y. Filed Aug. 4, 1923.

L'EXTASE DES FLEURS

Particular description of goods.—Perfumes, Toilet Water, Face Powders, Face Creams, and Rouge.
Claims use since January, 1915.

Ser. No. 184,106. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BERNARD E. SHERMAN, doing business as Vital Food Company of California, Los Angeles, Calif., assignor to Rose Wilke, Los Angeles, Calif. Filed Aug. 4, 1923.

VPO

Particular description of goods.—Laxative Herbal Compound.
Claims use since May 5, 1923.

Ser. No. 184,113. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) B. AND T. VARNISH COMPANY, Cincinnati, Ohio. Filed Aug. 6, 1923.



No claim is made to the exclusive use of the word "Varnish" except as it appears in association with the other features of the mark shown on the drawing. No common-law rights, however, being waived.
Particular description of goods.—Uncolored Varnish for Linoleum and Congoleum Rugs and Other Floor Coverings of a Similar Nature.
Claims use since July 28, 1923.

Ser. No. 184,130. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH B. GATTAZ, doing business as Gattaz & Co., Chicago, Ill. Filed Aug. 6, 1923.

ORIENTINA

Particular description of goods.—Compound for Treating Eyelashes and Eyelids.
Claims use since July 11, 1923.

Ser. No. 184,131. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. HELLER & COMPANY, Chicago, Ill. Filed Aug. 6, 1923.

ANT-KAN

Particular description of goods.—Insecticide Preparation Inclosed within a Circular Can with Divers Openings or Perforations in Both Ends of Said Can, Said Insecticide Preparation Being for the Purpose of Ridding Premises of Ants.
Claims use since about June, 1922.

Ser. No. 184,160. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) S. BLECHMAN & SON INC., New York, N. Y. Filed Aug. 7, 1923.

Charm

Consists of the word "Charm."
Particular description of goods.—Combs, Barrettes, Hairpins, Pins, Safety Pins of Base Material, Bone and Steel Crochet Needles; Bone, Pearl, and Base-Metal Collar Buttons, Pearl and Base-Metal Cuff Buttons, Base-Metal Bar Pins, Base-Metal Beauty Pins, Tape, Braid, Shoe Laces, Belting, Celluloid and Base-Metal Thimbles, Elastic, Hair Wavers, Snap Fasteners, and Pearl and Composition Buttons.
Claims use since November, 1922.

Ser. No. 184,161. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHILMORE H. COLBURN, West Springfield, Mass. Filed Aug. 7, 1923.

PHC

Particular description of goods.—Liniment and Preparation for Increasing Growth of the Hair.
Claims use since Aug. 4, 1921.

Ser. No. 184,180. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Aug. 7, 1923.

IODALBIN

Particular description of goods.—Alteratives.
Claims use since Aug. 9, 1905.

Ser. No. 184,181. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Aug. 7, 1923.

MERCURETTES

Particular description of goods.—Medicine for Treatment of Syphilis.
Claims use since Mar. 3, 1909.

Ser. No. 184,182. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Aug. 7, 1923.

SILVOL

Particular description of goods.—Antiseptics and Germicides.
Claims use since Aug. 12, 1914.

Ser. No. 184,183. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) L. T. PIVER, INC., Wilmington, Del., and New York, N. Y. Filed Aug. 7, 1923.

FLORAMYE

Particular description of goods.—Perfume Extract, Toilet Water, Lotions, Face Powder, Rouge, Bath Salts, Cold Creams, Talcum Powder, Sachet Powder, Compact Powder, and Eau Vegetale.
Claims use since 1905.

Ser. No. 184,208. (CLASS 39. CLOTHING.) LOWENGART & COMPANY, Portland, Oreg. Filed Aug. 8, 1923.

CAMEO

Particular description of goods.—Ladies' Hats.
Claims use since about March, 1921.

Ser. No. 184,284. (CLASS 39. CLOTHING.) THE P. GOLDSMITH SONS COMPANY, Cincinnati, Ohio. Filed Aug. 10, 1923.



Particular description of goods.—Baseball Shoes, Basket-Ball Shoes, Football Shoes, Gymnasium Shoes, Jumping Shoes, Running Shoes, and Sprinting Shoes.
Claims use since Oct. 1, 1901.

Ser. No. 184,292. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PALMERS, LIMITED, Montreal, Quebec, Canada. Filed Aug. 10, 1923.



Particular description of goods.—Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Face Powders, Compact Face Powders, Liquid Face Powders, Compact Rouges, Liquid Rouges, Talcum Powders, Eyebrow and Eyelash Growers, Eyebrow Pencils, Eye Drops, Face Bleaches, Hair Salves, Shampoos, Skin Lotions, Hand Lotions, Lip Sticks, Bath Salts, Witch-Hazel Salves, Chemical Preparations for Softening the Cuticle, Nail Polishes, Nail Bleaches, Toilet Waters, Perfumes, and Hair Tonics.
Claims use since Dec. 10, 1922.

Ser. No. 184,322. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOLL WEEVIL DESTROYER CO., College Park, Ga. Filed Aug. 11, 1923.



Particular description of goods.—Insecticides.
Claims use since Oct. 15, 1922.

Ser. No. 184,340. (CLASS 45. BEVERAGES, NONALCOHOLIC.) JOHN PAUL JONES, doing business as Pep-So Beverage Company, Fort Morgan, Colo. Filed Aug. 11, 1923.

PEP-SO

Particular description of goods.—Maltless, Nonalcoholic Beverage Sirup for Soft Drinks.
Claims use since May 1, 1923.

Ser. No. 184,382. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS F. CHRISTMAN, doing business as L. F. Christman Co., Jackson, Tenn. Filed Aug. 13, 1923.

NUSHU

Particular description of goods.—Preparation for Polishing and Dyeing Men's, Women's, and Children's Shoes and Leather Articles.
Claims use since February, 1915.

Ser. No. 184,422. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REID, MURDOCH & CO., Chicago, Ill. Filed Aug. 13, 1923.

MONARCH

Particular description of goods.—Baking Powder and Cream of Tartar.
Claims use since 1878.

Ser. No. 184,424. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ISAIAH D. RUSSELL, doing business as I. D. Russell Company, Kansas City, Mo. Filed Aug. 13, 1923.

Revenge

Particular description of goods.—Insecticide.
Claims use since latter part of 1913.

Ser. No. 184,426. (CLASS 12. CONSTRUCTION MATERIALS.) SIMONS BRICK COMPANY, Los Angeles, Calif. Filed Aug. 13, 1923.

CORDUROY

Particular description of goods.—Brick.
Claims use since June 28, 1923.

Ser. No. 184,434. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE W. BUTTON CORPORATION, New York, N. Y. Filed Aug. 14, 1923.

BOU'TON

Particular description of goods.—Perfumes, Toilet Waters, Face Powders, Talcum Powders, Rouge, Sachet, and Brilliantine.
Claims use since Apr. 1, 1922.

Ser. No. 184,473. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES T. NOELL, Alexandria, Va. Filed Aug. 14, 1923.

N. C.

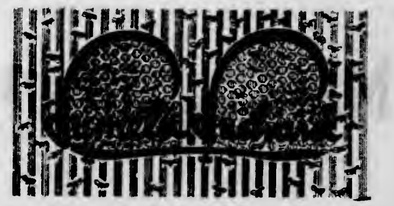
Particular description of goods.—Aspirin Tablets.
Claims use since June 1, 1923.

Ser. No. 184,569. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUCHARD, S. A., Serrieres, Switzerland. Filed Aug. 16, 1923.



Particular description of goods.—Chocolate.
Claims use since 1921.

Ser. No. 184,570. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUCHARD, S. A., Serrieres, Switzerland. Filed Aug. 16, 1923.



Particular description of goods.—Chocolate.
Claims use since 1921.

Ser. No. 184,577. (CLASS 39. CLOTHING.) THE APTER CO., INC., New York, N. Y. Filed Aug. 17, 1923.

HY-TEX

Particular description of goods.—Hosiery.
Claims use since July 18, 1923.

Ser. No. 184,587. (CLASS 45. BEVERAGES, NONALCOHOLIC.) CALIFORNIA LABORATORIES, INC., Los Angeles, Calif. Filed Aug. 17, 1923.

Olde Homestead

Particular description of goods.—Nonalcoholic, Maltless Beverages Sold as Soft Drinks, Root Beer, Root-Beer Extracts, and Sirups for Making Soft Drinks.
Claims use since Nov. 20, 1922.

Ser. No. 184,615. (CLASS 39. CLOTHING.) THE H. P. KING COMPANY, Bristol, Tenn. Filed Aug. 17, 1923.

STATE STREET

Particular description of goods.—Men's and Boys' Ties, Dress and Negligee Shirts, Suits, Leather Shoes, Sweaters, Hats, Caps, Socks, Pants, Overcoats, and Knitted and Textile Underwear.
Claims use since Mar. 18, 1922.

Ser. No. 184,665. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) GILL BROTHERS COMPANY, Steubenville, Ohio. Filed Aug. 18, 1923.

TruLite

Particular description of goods.—Lamp Wick.
Claims use since August, 1922.

Ser. No. 184,675. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) NEW YORK TRANSPORTATION CO., New York, N. Y. Filed Aug. 18, 1923.



Particular description of goods.—Motor Busses and Parts Thereof.
Claims use since May, 1920.

Ser. No. 184,686. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) SHEET STEEL PRODUCTS CO., Michigan City, Ind. Filed Aug. 18, 1923.

DURABILT

Particular description of goods.—Cabs for Vehicles, Including Cabs for Trucks.
Claims use since July 25, 1923.

Ser. No. 184,714. (CLASS 32. FURNITURE AND UPHOLSTERY.) COLUMBIA SCHOOL SUPPLY CO., Indianapolis, Ind. Filed Aug. 20, 1923.

Indestructo

Particular description of goods.—Chairs, Benches, Stools, Desks, and Bookcases for Particular Use in Schools and the Like.
Claims use since Apr. 15, 1921.

Ser. No. 184,727. (CLASS 39. CLOTHING.) J. P. HARTRAY SHOE CO., Chicago, Ill. Filed Aug. 20, 1923.

Workrite

"Workrite."
Particular description of goods.—Boots and Shoes Made Wholly or in Part of Leather.
Claims use since Feb. 3, 1923.

Ser. No. 184,762. (CLASS 10. FERTILIZERS.) S. RAUH & SONS FERTILIZER COMPANY, Indianapolis, Ind. Filed Aug. 20, 1923.



The words "Quality" and "First in the Field" are disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Tankage and Fertilizer.
Claims use since Aug. 6, 1923.

Ser. No. 184,778. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WRIGHT & PARKER COMPANY, Detroit, Mich. Filed Aug. 20, 1923.

GOLD CHAIN

Particular description of goods.—Bread, Butter, Eggs, Coffee, Tea, Spices, Food-Flavoring Extracts, Rolled Oats, Salad Dressing, and Poultry Seasoning.
Claims use since Mar. 27, 1922.

Ser. No. 184,786. (CLASS 39. CLOTHING.) DUNLAP & CO., New York, N. Y. Filed Aug. 21, 1923.

Metropolitan

Particular description of goods.—Straw Hats and Felt Hats Worn by Men, Women, and Children.
Claims use since October, 1921.

Ser. No. 184,807. (CLASS 39. CLOTHING.) WALL, STREETER & DOYLE CO., North Adams, Mass. Filed Aug. 21, 1923.

WALL MARK

Particular description of goods.—Shoes Made Wholly or in Part of Leather.
Claims use since July, 1920.

Ser. No. 184,852. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE GUARDIAN GAS APPLIANCE COMPANY, Cleveland, Ohio. Filed Aug. 22, 1923.

Guardian

Particular description of goods.—Stoves, Gas Fireplace Heaters, and Incinerators.
Claims use since about January, 1918.

Ser. No. 184,854. (CLASS 15. OILS AND GREASES.) HOT POINT OIL & SUPPLY COMPANY, Harrisburg, Pa. Filed Aug. 22, 1923.



Particular description of goods.—Lubricating Oils and Greases.
Claims use since June 15, 1923.

Ser. No. 184,856. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE INTERNATIONAL POSTAL SUPPLY COMPANY OF NEW YORK, New York and Brooklyn, N. Y. Filed Aug. 22, 1923.

JUNIOR

Particular description of goods.—Check-Indorsing Machines.
Claims use since July, 1922.

Ser. No. 184,858. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE INTERNATIONAL POSTAL SUPPLY COMPANY OF NEW YORK, New York and Brooklyn, N. Y. Filed Aug. 22, 1923.

MIDGET

Particular description of goods.—Check-Indorsing Machines.
Claims use since October, 1921.

Ser. No. 184,865. (CLASS 39. CLOTHING.) BEN LEVENE INC., New York, N. Y. Filed Aug. 22, 1923.

EIGHT POINT HOSE

No claim made to the exclusive use of the word "Hose" apart from the mark as shown in the drawing.
Particular description of goods.—Hosiery.
Claims use since Aug. 7, 1923.

Ser. No. 184,917. (CLASS 39. CLOTHING.) PINCUS & TOBIAS INC., Brooklyn, N. Y. Filed Aug. 23, 1923.

PÆDIC-TRED

Particular description of goods.—Leather Shoes.
Claims use since July 26, 1923.

Ser. No. 184,943. (CLASS 39. CLOTHING.) KASSMAN & KESSNER INC., New York, N. Y. Filed Aug. 24, 1923.

Fashion Club

Particular description of goods.—Men's Hats and Caps.
Claims use since Nov. 1, 1922.

Ser. No. 184,948. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WILLIAM R. SWETT, Oceola Mills, Pa. Filed Aug. 24, 1923.

IT'S Osce-Kola

No claim is made for the word "Kola" apart from the mark shown on the drawing. The lining around the edge as shown in the drawing indicates the color blue.

Particular description of goods.—Nonalcoholic Maltless Beverage Sold as a Soft Drink.

Claims use since about Aug. 10, 1922.

Ser. No. 184,954. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE ANSONIA O & C CO., Ansonia, Conn. Filed Aug. 25, 1923.

Analastik

Particular description of goods.—Elastic Webbing.

Claims use since July 17, 1923.

Ser. No. 184,970. (CLASS 39. CLOTHING.) INTERNATIONAL SHOE COMPANY, St. Louis, Mo. Filed Aug. 25, 1923.

Gem

Particular description of goods.—Women's Shoes of Leather.

Claims use since 1906.

Ser. No. 185,012. (CLASS 7. CORDAGE.) THE EDWIN H. FITLER CO., Philadelphia, Pa. Filed Aug. 27, 1923. Under ten-year proviso.



Particular description of goods.—Drilling Cables, Cable-Laid Drilling Cables, Sand Lines, and Cable-Laid Sand Lines.

Claims use since about May, 1877.

Ser. No. 185,061. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) EVELYN H. TAMINIES, Portland, Oreg. Filed Aug. 27, 1923.

FAC-IL-TRI

Particular description of goods.—Manual Facial Massaging or Tapping Device.

Claims use since Aug. 16, 1923.

Ser. No. 185,074. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) CHARLES H. CROWLEY, New York, N. Y. Filed Aug. 28, 1923.



Particular description of goods.—Safety Pins.

Claims use since February, 1923.

Ser. No. 185,075. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) CHARLES H. CROWLEY, New York, N. Y. Filed Aug. 28, 1923.



Particular description of goods.—Snap Fasteners.

Claims use since February, 1923.

Ser. No. 185,105. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BUNKIE ICE COMPANY, LTD., Bunkie, La. Filed Aug. 29, 1923.

Honey Boy

Particular description of goods.—Ice Cream.

Claims use since June 19, 1923.

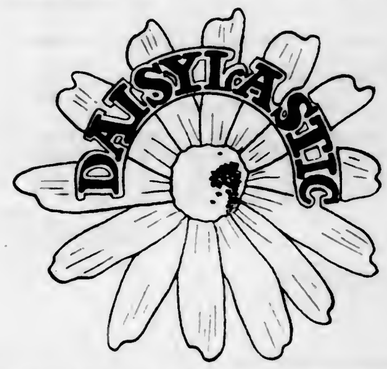
Ser. No. 185,106. (CLASS 2. RECEPTACLES.) H. P. CHANDLEE SONS CO., Baltimore, Md. Filed Aug. 29, 1923.

CHANDLEE

Particular description of goods.—Ash Cans, Garbage Cans, Oil Cans; Trash Burners, Ash Sifters, Water Coolers, Bread Boxes, Cake Boxes, Water Pails, Milk Pails, and Milk Cans.

Claims use since Jan. 16, 1914.

Ser. No. 185,107. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) W. L. M. CLARK INCORPORATED, St. Louis, Mo. Filed Aug. 29, 1923.



Particular description of goods.—Braid Elastic Goods.

Claims use since Aug. 1, 1922.

Ser. No. 185,172. (CLASS 39. CLOTHING.) BONWIT TELLER & CO., New York, N. Y. Filed Aug. 30, 1923.

DERBY

Particular description of goods.—Corsets.

Claims use since June 16, 1917.

Ser. No. 185,252. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM JOHN HOWELL, Allentown, Pa. Filed Sept. 1, 1923.

Fay-deo-domes

Particular description of goods.—Chemical Preparations Used for Purposes of Deodorizing and Disinfecting.

Claims use since June 30, 1922.

Ser. No. 185,265. (CLASS 2. RECEPTACLES.) THE ROSETH CORPORATION, Brooklyn, N. Y. Filed Sept. 1, 1923.

PROTEX WARDROBE BAG

The words "Wardrobe Bag" being disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Mothproof Bags.

Claims use since Feb. 1, 1922.

Ser. No. 185,277. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE T. WILSON, doing business as Dew-On Company, Cleveland, Ohio. Filed Sept. 1, 1923.

DEW-ON

Particular description of goods.—Preparations for Germicidal, Insecticidal, and Deodorant Purposes and for Exterminating Cockroaches, Bedbugs, Moths, Ants, Flies, and Other Vermin.

Claims use since about Apr. 10, 1923.

Ser. No. 185,306. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) W. M. MYERS, San Antonio, Tex. Filed Sept. 4, 1923.

YELLOW KING

Particular description of goods.—Automobile Cleanser and Polish Made from Gasoline, Boiled Linseed Oil, Vinegar, Denatured Alcohol, Japan Drier, and Turpentine, Put Up in Bottles.

Claims use since Mar. 1, 1923.

Ser. No. 185,350. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE R. WALLACE & SONS MFG. CO., Wallingford, Conn. Filed Sept. 5, 1923.

WALLACE STERLING

No claim is made to the words "Wallace" or "Sterling" apart from the mark shown in the drawing.

Particular description of goods.—Sterling-Silver Flatware and Hollow Ware.

Claims use since Aug. 29, 1923.

Ser. No. 185,354. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) GENERAL GAS MANTLE CO., Camden, N. J. Filed Sept. 5, 1923.

SUPERAY

Particular description of goods.—Heating Apparatus—Viz, Gas Heaters and Parts Thereof.
Claims use since Jan. 27, 1923.

Ser. No. 185,381. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) PAUL ROTH, doing business as P. Roth & Company, New York, N. Y. Filed Sept. 6, 1923.



No claim is made to exclusive use of the words "Monaco Pearls" apart from the mark shown in the drawing.
Particular description of goods.—Pearls.
Claims use since May 1, 1923.

Ser. No. 185,543. (CLASS 39. CLOTHING.) TRIUMPH HOSIERY MILLS INC., New York, N. Y. Filed Sept. 8, 1923.

"BAND-O GREEN"

Particular description of goods.—Hosiery.
Claims use since Aug. 15, 1923.

Ser. No. 185,765. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) EVELYN A. ROBINSON, doing business as The Vestrap Co., Minneapolis, Minn. Filed Sept. 13, 1923.

Vestrap

Particular description of goods.—Cross Straps for Connecting the Supporting Straps of Ladies' Undergarments, Such as Vests, Brassières, Camisoles, Etc.
Claims use since on or about July 1, 1923.

Ser. No. 185,787. (CLASS 17. TOBACCO PRODUCTS.) LIMPERIS J. LIMPER, New York, N. Y. Filed Sept. 14, 1923.

JEWS' DREAM

Particular description of goods.—Cigarettes.
Claims use since Aug. 30, 1923.

Ser. No. 185,790. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PAUL MENDE, INC., New York, N. Y. Filed Sept. 14, 1923.

CELL-O-FILL

Particular description of goods.—Wood Preservative in the Nature of a Filler.
Claims use since June 8, 1923.

Ser. No. 185,818. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CONFECTION PRODUCTS INC., Jersey City, N. J. Filed Sept. 15, 1923.

Say-BILL BEEZY

Particular description of goods.—Chocolate-Covered Candy Bar.
Claims use since June 4, 1923.

Ser. No. 185,832. (CLASS 17. TOBACCO PRODUCTS.) CONRAD H. MICHAEL, Brooklyn, Conn. Filed Sept. 15, 1923.

PETER THE GREAT

Particular description of goods.—Cigars.
Claims use since May 20, 1923.

Ser. No. 185,834. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. G. MORSE CO., INC., doing business as Morse's, Chicago, Ill. Filed Sept. 15, 1923.

To the Ladies

Particular description of goods.—Candy.
Claims use since Oct. 1, 1922.

Ser. No. 185,856. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE C. S. BALL CANDY CO., Dayton, Ohio. Filed Sept. 17, 1923.

RADIANT

Trade-mark "Radiant."
Particular description of goods.—Candies.
Claims use since Jan. 24, 1923.

Ser. No. 185,919. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COAST FISHING COMPANY, Wilmington, Calif. Filed Sept. 19, 1923.

ABBEY

Particular description of goods.—Canned Sardines.
Claims use since July 19, 1923.

Ser. No. 185,932. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MORTON GUM CO. INC., Kansas City, Mo. Filed Sept. 19, 1923.

BLUE JACKET

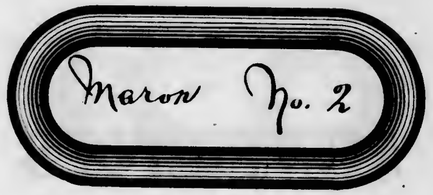
Particular description of goods.—Chewing Gum.
Claims use since Aug. 4, 1923.

Ser. No. 185,972. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LANTON AUTO EQUIPMENT COMPANY, INCORPORATED, New York, N. Y. Filed Sept. 20, 1923.

AUTORITE

Particular description of goods.—Automobile Luggage Carriers.
Claims use since on or about June 30, 1923.

Ser. No. 185,980. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DANNEL MARONIK, Detroit, Mich. Filed Sept. 20, 1923.



Particular description of goods.—Banana Jelly.
Claims use since Aug. 31, 1923.

Ser. No. 185,981. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DANNEL MARONIK, Detroit, Mich. Filed Sept. 20, 1923.



Particular description of goods.—Dried Banana Slices.
Claims use since Aug. 31, 1923.

Ser. No. 185,987. (CLASS 38. PRINTS AND PUBLICATIONS.) PRUDENCE-BONDS CORPORATION, New York, N. Y. Filed Sept. 20, 1923.

PRUDENCE

"Prudence."
Particular description of goods.—Vendible Coupon Bonds, Coupons, Certificate of Stocks, Evidences of Indebtedness Such as Mortgages and Certificates, and Advertising Publications—Namely, Printed Booklets and Periodical Publications of General Interest.
Claims use since Dec. 1, 1919.

Ser. No. 185,988. (CLASS 38. PRINTS AND PUBLICATIONS.) PRUDENCE-BONDS CORPORATION, New York, N. Y. Filed Sept. 20, 1923.



PRUDENCE

Consists of the word "Prudence" and representation of Pyramids.
Particular description of goods.—Vendible Coupon Bonds, Coupons, Certificate of Stocks, Evidences of Indebtedness Such as Mortgages and Certificates, and Advertising Publications—Namely, Printed Booklets and Periodical Publications of General Interest.
Claims use since Dec. 1, 1919.

Ser. No. 185,989. (CLASS 38. PRINTS AND PUBLICATIONS.) PRUDENCE-BONDS CORPORATION, New York, N. Y. Filed Sept. 20, 1923.



Consists of the representation of Pyramids.

Particular description of goods.—Vendible Coupon Bonds, Coupons, Certificate of Stocks, Evidences of Indebtedness Such as Mortgages and Certificates, and Advertising Publications—Namely, Printed Booklets and Periodical Publications of General Interest.

Claims use since Dec. 1, 1919.

Ser. No. 186,090. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUNBURY WHOLESALE GROCERY COMPANY, Sunbury, Pa. Filed Sept. 22, 1923.



Particular description of goods.—Coffee.

Claims use since January, 1919.

Ser. No. 186,114. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa. Filed Sept. 24, 1923.

Atlas

Particular description of goods.—Hooks and Eyes, Safety Pins, and Toilet Pins.

Claims use since April, 1905, on hooks and eyes; since April, 1914, on safety pins; since September, 1916, on toilet pins.

Ser. No. 186,118. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) E. AND T. FAIRBANKS AND COMPANY, St. Johnsbury, Vt. Filed Sept. 24, 1923. Under ten-year proviso.

FAIRBANKS

Particular description of goods.—Weighing Apparatus and Parts Thereof.

Claims use since about 1838.

Ser. No. 186,121. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) FITZGIBBONS BOILER COMPANY, INC., New York, N. Y. Filed Sept. 24, 1923. Under ten-year proviso.



Particular description of goods.—Steam and Hot-Water Boilers for Power and Heating.

Claims use since about November, 1886.

Ser. No. 186,171. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WASHINGTON CHOCOLATE CO., Seattle, Wash. Filed Sept. 24, 1923.

"A Case of Good Judgment"

Particular description of goods.—Chocolate Coating.

Claims use since July 10, 1923.

Ser. No. 186,185. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERSHEY CHOCOLATE COMPANY, Hershey, Pa. Filed Sept. 25, 1923.

SILVER TOPS

Particular description of goods.—Chocolates.

Claims use since about Aug. 1, 1911.

Ser. No. 186,203. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed Sept. 25, 1923.

TRAVERTINE

Particular description of goods.—Candles.

Claims use since Feb. 27, 1923.

Ser. No. 186,271. (CLASS 46. FOODS AND INGREDIENTS AND FOODS.) WM. J. DORGAN, doing business as W. J. Dorgan Co., Riverside, Calif. Filed Sept. 27, 1923.

SHADOW

Particular description of goods.—Canned Fruits and Vegetables.

Claims use since Aug. 20, 1923.

Ser. No. 186,360. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) PETER A. FRASSE & CO. INC., New York, N. Y. Filed Sept. 29, 1923.

MAXIMUM

Particular description of goods.—Tool Steel.

Claims use since fall of 1906.

Ser. No. 186,403. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) ABRAHAM & STRAUS, INC., New York, N. Y. Filed Oct. 1, 1923.

Sadora

Particular description of goods.—Hairpins.

Claims use since Sept. 17, 1923.

Ser. No. 186,429. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) KAUFMANN DEPARTMENT STORES, INC., Pittsburgh, Pa. Filed Oct. 1, 1923.

K-O

Particular description of goods.—Golf Balls.

Claims use since about Sept. 17, 1923.

Ser. No. 186,441. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MOTOR CAR PAINTING & TRIMMING CO., Chicago, Ill. Filed Oct. 1, 1923.

GLITTERIZ

Particular description of goods.—Liquids for Cleaning and Polishing Automobile Bodies, Furniture, and the Like.

Claims use since Sept. 7, 1923.

Ser. No. 186,452. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WHITE SEAL POTATO CHIP CO., Baltimore, Md. Filed Oct. 1, 1923.



Particular description of goods.—Potato Chips and Caramels.

Claims use since Sept. 1, 1923.

Ser. No. 186,512. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) L. GORDON LEECH, Washington, D. C. Filed Oct. 3, 1923.

Orange-Vita

Particular description of goods.—Nonalcoholic, Maltless Beverage.

Claims use since Sept. 1, 1923.

Ser. No. 186,553. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE R. F. JOHNSTON PAINT COMPANY, Cincinnati, Ohio. Filed Oct. 4, 1923.

GROUNDER

Particular description of goods.—Ready-Mixed Paints.

Claims use since July 1, 1923.

Ser. No. 186,674. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JULIUS SCHMID, INC., New York, N. Y. Filed Oct. 6, 1923.

HARVA

Particular description of goods.—Combs.

Claims use since 1913.

Ser. No. 186,686. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE AUTOMOBILE PROPRIETARY, LIMITED, Westminster and London, England. Filed Oct. 8, 1923.



Particular description of goods.—Squash Balls.
Claims use since November, 1921.

Ser. No. 186,706. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HAROLD HOWARD HAVARD, Berkeley, Calif. Filed Oct. 8, 1923.



Particular description of goods.—Playing Cards.
Claims use since Sept. 6, 1923.

Ser. No. 186,726. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed Oct. 8, 1923.



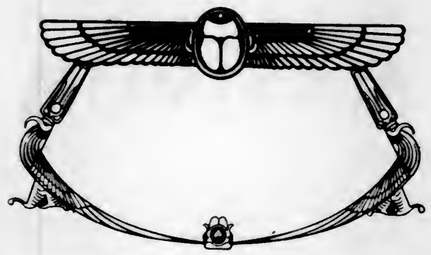
Particular description of goods.—Candles.
Claims use since Feb. 27, 1923.

Ser. No. 186,729. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) VAN VLEET-MANSFIELD DRUG CO., Memphis, Tenn. Filed Oct. 8, 1923.



Particular description of goods.—Hairbrushes, Nailbrushes, Toothbrushes, Clothes Brushes, and Shaving Brushes.
Claims use since Aug. 9, 1923.

Ser. No. 186,936. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed Oct. 12, 1923.



Particular description of goods.—Candles.
Claims use since Feb. 27, 1923.

Ser. No. 187,012. (CLASS 17. TOBACCO PRODUCTS.) A. E. MCCALL, doing business as McCall Cigar Company, Kansas City, Mo. Filed Oct. 15, 1923.

MIAFA BELLE

Particular description of goods.—Cigars.
Claims use since Apr. 23, 1923.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

NOVEMBER 27, 1923.

176,377. TONIC TO BE APPLIED TO THE HUMAN SCALP AND AS A TONIC AND DRESSING FOR THE HUMAN HAIR. LEVITE MANUFACTURING COMPANY, Dothan, Ala.
Filed March 19, 1923. Serial No. 177,679. PUBLISHED JULY 31, 1923.

176,378. MEDICAL COMPOUNDS FOR THE TREATMENT OF RHEUMATISM. KATTULAS AND SOTOS, Williamsport, Pa.
Filed March 19, 1923. Serial No. 177,674. PUBLISHED AUGUST 28, 1923.

176,379. INSECTICIDE AND FUNGICIDE. THE KIL-TONE COMPANY, Vineland, N. J.
Filed March 16, 1923. Serial No. 177,561. PUBLISHED AUGUST 7, 1923.

176,380. PREPARATION FOR TREATING DISEASES OF THE MUCOUS MEMBRANES. DR. JAMES SWAYZE CATER, doing business as Purer-Lene Mfg. Co., Marceline, Mo.
Filed March 17, 1923. Serial No. 177,593. PUBLISHED AUGUST 7, 1923.

176,381. IRON-RUST, INK, AND STAIN-REMOVING SOAP. NORA C. EDWARDS, doing business as Edwards Skirt Supporter Co., Buffalo, N. Y.
Filed March 19, 1923. Serial No. 177,658. PUBLISHED AUGUST 7, 1923.

176,382. WELDING FLUX. SEDALIA MANUFACTURING COMPANY, Sedalia, Mo.
Filed March 15, 1923. Serial No. 177,523. PUBLISHED AUGUST 21, 1923.

176,383. ROUGE AND FACE POWDER. MARINELLO COMPANY, La Crosse, Wis.
Filed March 9, 1923. Serial No. 177,187. PUBLISHED JULY 31, 1923.

176,384. LADIES' AND CHILDREN'S HAND BAGS NOT MADE OF PRECIOUS METAL, PURSES, AND POCKETBOOKS. MORTON J. VOGEL, New York, N. Y.
Filed March 8,1923. Serial No. 177,153. PUBLISHED SEPTEMBER 11, 1923.

176,385. PAINTS AND PAINTERS' MATERIALS. WINCHESTER REPEATING ARMS CO., New Haven, Conn.
Filed February 8, 1923. Serial No. 175,751. PUBLISHED SEPTEMBER 11, 1923.

176,386. MORNING NEWSPAPER PUBLISHED SUNDAY AND DAILY EXCEPT MONDAY OF EACH WEEK. BELLINGHAM PUBLISHING COMPANY, Bellingham, Wash.
Filed January 26, 1923. Serial No. 175,128. PUBLISHED APRIL 17, 1923.

176,387. READY-MIXED PAINTS AND VARNISHES. THE GLIDDEN COMPANY, Cleveland, Ohio.
Filed November 29, 1922. Serial No. 172,672. PUBLISHED SEPTEMBER 11, 1923.

176,388. COLORS FOR DYEING PURPOSES. WILHELM BRAUNS, Gesellschaft mit beschränkter Haftung, Quedlinburg, Germany.
Filed January 3, 1923. Serial No. 174,161. PUBLISHED AUGUST 14, 1923.

176,389. CANNED MOTOR OILS. MIDCONTINENT PRODUCERS' & REFINERS' CORPORATION, Cleveland, Ohio.
Filed November 28, 1922. Serial No. 175,094. PUBLISHED AUGUST 7, 1923.

176,390. AFTERNOON NEWSPAPER PUBLISHED DAILY EXCEPT SUNDAY. BELLINGHAM PUBLISHING COMPANY, Bellingham, Wash.
Filed January 26, 1923. Serial No. 175,127. PUBLISHED APRIL 17, 1923.

176,391. FANCY LEATHER GOODS. FREDERICK E. SEXAUER, doing business as Frederick E. Sexauer and Company, Brooklyn, N. Y.
Filed April 7, 1919. Serial No. 117,254. PUBLISHED SEPTEMBER 11, 1923.

176,392. JAPAN COLORS, VARNISHES, PRIMERS, PAINT ENAMELS, AND MIXED PAINTS. DITZLER COLOR COMPANY, Detroit, Mich.
Filed August 29, 1921. Serial No. 152,322. PUBLISHED NOVEMBER 28, 1922.

176,393. WRAPPING PAPER. THE WHITAKER PAPER COMPANY, Baltimore, Md., and Cincinnati, Ohio.
Filed October 14, 1922. Serial No. 170,737. PUBLISHED SEPTEMBER 11, 1923.

176,394. MANICURISTS' BUFFING IMPLEMENTS AND RENEWAL STRIPS THEREFOR. PHILIP C. P. BOOTY, doing business as Innovation Specialties, Chicago, Ill., assignor to Innovation Specialties Co., Inc., Chicago, Ill., a Corporation of Illinois.
Filed October 31, 1922. Serial No. 171,411. PUBLISHED SEPTEMBER 11, 1923.

176,395. WRITING PAPER, PRINTING PAPER, LEDGER PAPER, BOOK PAPER, AND BOND PAPER. CHICAGO PAPER COMPANY, Chicago, Ill.
Filed November 8, 1922. Serial No. 171,726. PUBLISHED SEPTEMBER 11, 1923.

176,396. WRITING PAPER, PRINTING PAPER, LEDGER PAPER, BOOK PAPER, AND BOND PAPER. CHICAGO PAPER COMPANY, Chicago, Ill.
Filed November 8, 1922. Serial No. 171,728. PUBLISHED SEPTEMBER 11, 1923.

176,397. PAPER TOWELS, PAPER NAPKINS, PAPER WRAPPERS FOR DELICATESSEN LUNCHES. HARRY N. GOLDSMITH, Philadelphia, Pa.
Filed July 3, 1923. Serial No. 182,750. PUBLISHED SEPTEMBER 11, 1923.

176,398. LIQUID WATER COLORS AND ARTIST OIL COLORS. PHILIP RUXTON INCORPORATED, New York, N. Y.; Chicago, Ill.; Boston, Mass.; St. Paul, Minn., and St. Louis, Mo.
Filed June 29, 1923. Serial No. 182,616. PUBLISHED SEPTEMBER 11, 1923.

176,399. WOOD-PRESERVING PAINTS AND SHELLAC. THE DAVEY TREE EXPERT COMPANY, Kent Ohio.
Filed June 21, 1923. Serial No. 182,296. PUBLISHED SEPTEMBER 11, 1923.

176,400. FILTRATION MATERIALS. ADAMITE FILTRATION CO., INC., Brooklyn, N. Y.
Filed June 22, 1923. Serial No. 182,326. PUBLISHED SEPTEMBER 11, 1923.

176,401. BOND PAPER, LEDGER PAPER, AND WRITING PAPER. GILBERT PAPER CO., Menasha, Wis.
Filed June 25, 1923. Serial No. 182,410. PUBLISHED SEPTEMBER 11, 1923.

176,402. BOND PAPER. LOUISVILLE PAPER CO., Louisville, Ky.
Filed June 12, 1923. Serial No. 181,902. PUBLISHED SEPTEMBER 11, 1923.

176,403. LACQUER COMPOSITIONS. WILLIAM H. SCHEEL, New York, N. Y.
Filed June 13, 1923. Serial No. 181,961. PUBLISHED SEPTEMBER 4, 1923.

176,404. BRISTOL PAPER. AMERICAN WRITING PAPER COMPANY, Holyoke, Mass.
Filed June 15, 1923. Serial No. 182,037. PUBLISHED SEPTEMBER 11, 1923.

176,405. PREPARED WAX IN PASTE, POWDERED, AND LIQUID FORMS FOR FINISHING AND POLISHING FLOORS AND INTERIOR WOODWORK AND FOR PAINT AND VARNISH REMOVER. S. C. JOHNSON & SON, Racine, Wis.
Filed June 16, 1923. Serial No. 182,102. PUBLISHED SEPTEMBER 11, 1923.

176,406. WRAPPING PAPER, MANILA PAPER, ENVELOPES, PRINT BOOK COVER, AND DOCUMENT COVERS. THE J. W. BUTLER PAPER CO., Chicago, Ill.
Filed May 19, 1923. Serial No. 180,839. PUBLISHED AUGUST 28, 1923.

176,407. A COMPOUND IN POWDER FORM. CALIFORNIA CENTRAL CREAMERIES, San Francisco, Calif.
Filed May 19, 1923. Serial No. 180,840. PUBLISHED SEPTEMBER 11, 1923.

176,408. REFINED, SEMIREFINED, AND UNREFINED OILS AND GREASES. STANDARD OIL COMPANY (NEW JERSEY), Bayonne, N. J.
Filed June 7, 1923. Serial No. 181,659. PUBLISHED SEPTEMBER 11, 1923.

176,409. REFRIGERATOR DISPLAY CASES. CITY REFRIGERATOR COMPANY, Los Angeles, Calif.
Filed June 12, 1923. Serial No. 181,880. PUBLISHED SEPTEMBER 11, 1923.

176,410. MEDICINE USED IN CASES OF INFLAMMATION, ULCERATIONS, AND DISCHARGES OF THE URINARY TRACT. ORGAN-IRON MEDICINE COMPANY, Omaha, Nebr.
Filed April 2, 1923. Serial No. 178,458. PUBLISHED AUGUST 7, 1923.

176,411. SALINE CATHARTIC PUT UP IN EFFERVESCENT TABLET FORM. R. J. STRASENBURGH COMPANY, Rochester, N. Y.
Filed April 5, 1923. Serial No. 178,641. PUBLISHED JULY 31, 1923.

176,412. HAIR TONIC AND SHAMPOO. FIVE-IN-ONE MANUFACTURING CO., Dallas, Tex.
Filed April 6, 1923. Serial No. 178,698. PUBLISHED AUGUST 14, 1923.

176,413. WATER SOFTENER. BOWKER CHEMICL COMPANY, New York, N. Y.
Filed April 7, 1923. Serial No. 178,706. PUBLISHED AUGUST 14, 1923.

176,414. NITROUS OXIDE AND MEDICINAL OXYGEN. E. F. PLATT, doing business as Northwest Nitrox Company, Portland, Oreg.
Filed April 7, 1923. Serial No. 178,770. PUBLISHED AUGUST 28, 1923.

176,415. SOFT DRINKS. JOHN W. PALMER, doing business as The Nu-Pep Company, Chicago, Ill.
Filed May 9, 1923. Serial No. 180,386. PUBLISHED SEPTEMBER 18, 1923.

176,416. POLISH FOR FURNITURE, PIANOS, AUTOS, WOODWORK, HARDWOOD FLOORS, AND LIKE HIGHLY-FINISHED SURFACES. THE VISCO CHEMICAL PRODUCTS COMPANY, Cleveland, Ohio.
Filed May 12, 1923. Serial No. 180,568. PUBLISHED SEPTEMBER 11, 1923.

176,417. A HOUSE ORGAN PUBLISHED MONTHLY. CHR. HANSEN'S LABORATORY, INC., Little Falls, N. Y.
Filed May 17, 1923. Serial No. 180,761. PUBLISHED SEPTEMBER 18, 1923.

176,418. A MONTHLY PUBLICATION. GEORGE F. WHITEHOUSE, doing business as Vitality Publishing Company, Los Angeles, Calif.
Filed May 22, 1923. Serial No. 180,997. PUBLISHED SEPTEMBER 11, 1923.

176,419. MONTHLY PUBLICATION. DIAMOND CAB SALES CORPORATION, New York, N. Y.
Filed May 23, 1923. Serial No. 181,014. PUBLISHED SEPTEMBER 11, 1923.

176,420. VEGETABLE SHORTENING. THE BEST FOODS, INC., New York, N. Y.
Filed June 19, 1923. Serial No. 182,198. PUBLISHED SEPTEMBER 11, 1923.

176,421. BOND PAPER. LOUISVILLE PAPER CO., Louisville, Ky.
Filed June 12, 1923. Serial No. 181,901. PUBLISHED SEPTEMBER 11, 1923.

176,422. QUARTERLY MAGAZINE. THE COLLEGIATE WORLD PUBLISHING COMPANY, Chicago, Ill.
Filed June 9, 1923. Serial No. 181,730. PUBLISHED SEPTEMBER 18, 1923.

176,423. EDIBLE CHOCOLATE-LINED SHELL ADAPTED TO CONTAIN ICES. POLAR FOOD PRODUCTS CORP., Boston, Mass.
Filed June 4, 1923. Serial No. 181,539. PUBLISHED SEPTEMBER 11, 1923.

176,424. PUBLICATIONS ISSUED WEEKLY. THE BANKERS SUPPLY CO., Denver, Colo., and Chicago, Ill.
Filed June 4, 1923. Serial No. 181,509. PUBLISHED SEPTEMBER 11, 1923.

176,425. A MONTHLY PERIODICAL. YELLOW CAB MANUFACTURING CO., Chicago, Ill.
Filed May 28, 1923. Serial No. 181,329. PUBLISHED SEPTEMBER 11, 1923.

176,426. A MAGAZINE PUBLISHED MONTHLY. HOLLAND FURNACE COMPANY, Holland, Mich.
Filed May 23, 1923. Serial No. 181,024. PUBLISHED SEPTEMBER 11, 1923.

176,427. FOUNDATION AND PULP PROTECTOR USED IN MAKING METAL DENTAL FILLINGS. HARRY B. GARRISON, also doing business as The Silvodent Co., Portland, Oreg.
Filed July 16, 1923. Serial No. 183,269. PUBLISHED SEPTEMBER 11, 1923.

176,428. BASKETS. THE EDGERTON MANUFACTURING CO., Plymouth, Ind.
Filed July 26, 1923. Serial No. 183,698. PUBLISHED SEPTEMBER 11, 1923.

176,429. NONALCOHOLIC, MALTLESS BEVERAGES AND SIRUPS, EXTRACTS, AND FLAVORINGS. RUBY E. MARETT, New York, N. Y.
Filed August 13, 1923. Serial No. 184,412. PUBLISHED SEPTEMBER 18, 1923.

176,430. ENAMELED BOOK PAPER. THE MARTIN CANTINE CO., Saugerties, N. Y.
Filed July 9, 1923. Serial No. 182,980. PUBLISHED SEPTEMBER 11, 1923.

176,431. ENAMELED BOOK PAPER. THE MARTIN CANTINE CO., Saugerties, N. Y.
Filed July 9, 1923. Serial No. 182,981. PUBLISHED SEPTEMBER 11, 1923.

176,432. WRITING PAPER AND ENVELOPES. THE ROSE COMPANY, Philadelphia, Pa.
Filed July 14, 1923. Serial No. 183,232. PUBLISHED SEPTEMBER 11, 1923.

176,433. CREOSOTE WOOD PRESERVATIVES. WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y.
Filed July 14, 1923. Serial No. 183,240. PUBLISHED SEPTEMBER 11, 1923.

176,434. VEGETABLE SEEDS. KEHOE PRESERVING COMPANY, Terre Haute, Ind.
Filed February 23, 1923. Serial No. 176,521. PUBLISHED JULY 3, 1923.

176,435. PAPER WADDING. AMERICAN LACE PAPER COMPANY, Milwaukee, Wis.
Filed July 5, 1923. Serial No. 182,784. PUBLISHED SEPTEMBER 11, 1923.

176,436. TABLETS AND SCHOOL PADS. JACKSON PAPER CO., Jackson, Miss.
Filed July 5, 1923. Serial No. 182,816. PUBLISHED SEPTEMBER 11, 1923.

176,437. CANDIES. LOFT, INC., New York, N. Y.
Filed May 16, 1923. Serial No. 180,708. PUBLISHED SEPTEMBER 11, 1923.

176,438. STENCIL CABINETS. THE ELLIOTT COMPANY, Kittery, Me., and Cambridge, Mass.
Filed May 16, 1923. Serial No. 180,693. PUBLISHED SEPTEMBER 11, 1923.

176,439. CANDY OF ALL KINDS AND GRADES. BITTERSWEET PORDUCTS CORPORATION, Yonkers, N. Y.
Filed May 14, 1923. Serial No. 180,580. PUBLISHED SEPTEMBER 11, 1923.

176,440. CANDY. SCHUTTER-JOHNSON CANDY CO., Chicago, Ill.
Filed May 12, 1923. Serial No. 180,557. PUBLISHED SEPTEMBER 11, 1923.

176,441. CANDY. SCHUTTER-JOHNSON CANDY CO., Chicago, Ill.
Filed May 12, 1923. Serial No. 180,556. PUBLISHED SEPTEMBER 11, 1923.

176,442. CANDY. SCHUTTER-JOHNSON CANDY CO., Chicago, Ill.
Filed May 12, 1923. Serial No. 180,555. PUBLISHED SEPTEMBER 11, 1923.

176,443. BED SPRINGS AND BEDSTEADS. NORFOLK MATTRESS COMPANY, INC., Norfolk, Va.
Filed May 12, 1923. Serial No. 180,547. PUBLISHED SEPTEMBER 11, 1923.

176,444. CANDY. WM. H. LUDEN INC., Reading, Pa.
Filed May 12, 1923. Serial No. 180,541. PUBLISHED SEPTEMBER 18, 1923.

176,445. CORRUGATED SOLID FIBER AND PAPER BOXES, ENVELOPES, WRAPPERS, CASES, AND CORRUGATED PAPERBOARD. DAVID WEBER & CO., Philadelphia, Pa.
Filed May 11, 1923. Serial No. 180,511. PUBLISHED SEPTEMBER 18, 1923.

176,446. COMPOSITION IN THE FORM OF A LIQUID FOR EXTERMINATING INSECTS. NO-MOR PRODUCTS CO., Los Angeles, Calif.
Filed May 7, 1923. Serial No. 180,292. PUBLISHED AUGUST 28, 1923.

176,447. CANNED FISH. TAYLOR & SLEDD, INC., Richmond, Va.
Filed March 3, 1923. Serial No. 176,927. PUBLISHED SEPTEMBER 11, 1923.

176,448. POLISHING MATERIALS WITH INCIDENTAL CLEANSING AND GERMICIDAL PROPERTIES. CLEVELAND CHEMICAL CORPORATION, Wilmington, Del., and Cleveland, Ohio.
Filed March 5, 1923. Serial No. 176,949. PUBLISHED SEPTEMBER 18, 1923.

176,449. SUITS FOR MEN, YOUNG MEN, BOYS, AND CHILDREN: OVERCOATS, SHEEPSKIN COATS, MACKINAWS, PANTS, KNEE PANTS, VESTS, AND RAINCOATS. ISAAC I. MARRUS, Scranton, Pa.
Filed March 12, 1923. Serial No. 177,310. PUBLISHED SEPTEMBER 18, 1923.

176,450. POULTRY FEEDS. GEORGE URBAN MILLING COMPANY, Buffalo, N. Y.
Filed March 12, 1923. Serial No. 177,336. PUBLISHED AUGUST 21, 1923.

176,451. WHEAT FLOUR. PHOENIX FLOUR MILL, Evansville, Ind.
Filed March 3, 1923. Serial No. 176,914. PUBLISHED AUGUST 14, 1923.

176,452. CANNED FISH, CANNED VEGETABLES, CANNED FRUITS, JAMS AND JELLIES, APPLE BUTTER, PEANUT BUTTER, ALIMENTARY PASTE PRODUCTS, CONDIMENTS. TAYLOR & SLEDD INC., Richmond, Va.
Filed March 3, 1923. Serial No. 176,926. PUBLISHED SEPTEMBER 11, 1923.

176,453. VEGETABLE FOOD CONSISTING OF WHEAT PROTEIN COMBINED WITH NUTS. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich.
Filed March 2, 1923. Serial No. 176,816. PUBLISHED SEPTEMBER 4, 1923.

176,454. DRESS AND TOP SHIRTS. APOLLO SHIRT COMPANY, New York, N. Y.
Filed March 3, 1923. Serial No. 176,869. PUBLISHED SEPTEMBER 18, 1923.

176,455. OLEOMARGARINE. JABURG BROTHERS, INC., New York, N. Y.
Filed February 26, 1923. Serial No. 176,630. PUBLISHED SEPTEMBER 11, 1923.

176,456. EGGS. PETER W. SAHRBECK, New York, N. Y.
Filed February 27, 1923. Serial No. 176,694. PUBLISHED SEPTEMBER 4, 1923.

176,457. DRIED FRUIT, CANNED VEGETABLES, PEANUT BUTTER, CHEESE, AND ROLLED OATS. TWOHY-SMITH COMPANY, Superior, Wis.
Filed March 1, 1923. Serial No. 176,810. PUBLISHED SEPTEMBER 4, 1923.

176,458. WHEAT FLOUR. NORTHFIELD FLOUR MILLS COMPANY, Northfield, Minn.
Filed February 21, 1923. Serial No. 176,423. PUBLISHED AUGUST 21, 1923.

176,459. WHEAT FLOUR. NORTHFIELD FLOUR MILLS COMPANY, Northfield, Minn.
Filed February 21, 1923. Serial No. 176,424. PUBLISHED AUGUST 21, 1923.

176,460. HOSIERY. RICHMOND HOSIERY MILLS, Rossville, Ga.
Filed February 24, 1923. Serial No. 176,571. PUBLISHED SEPTEMBER 18, 1923.

176,461. CEREAL BREAKFAST FOODS. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich.
Filed February 19, 1923. Serial No. 176,247. PUBLISHED AUGUST 21, 1923.

176,462. LUBRICATING OILS AND GREASES. REED OIL COMPANY, Rogers, Ark.
Filed February 20, 1923. Serial No. 176,365. PUBLISHED SEPTEMBER 18, 1923.

176,463. ROLLS AND BREAD. FRANCO-AMERICAN BAKING CO., Los Angeles, Calif.
Filed February 21, 1923. Serial No. 176,401. PUBLISHED AUGUST 21, 1923.

176,464. WHEAT FLOUR. NORTHFIELD FLOUR MILLS COMPANY, Northfield, Minn.
Filed February 21, 1923. Serial No. 176,422. PUBLISHED AUGUST 21, 1923.

176,465. DRAWING INSTRUMENTS, DRAWING ACCESSORIES, SURVEYORS' INSTRUMENTS. SPAULDING-MOSS COMPANY, Boston, Mass.
Filed February 10, 1923. Serial No. 175,890. PUBLISHED SEPTEMBER 18, 1923.

176,466. LUBRICATING OILS AND GREASES. GREAT SOUTHERN REFINING COMPANY, Lexington, Ky.
Filed February 15, 1923. Serial No. 176,078. PUBLISHED SEPTEMBER 18, 1923.

176,467. NONFERROUS METALS AND THEIR ALLOYS. THE SMITH & EGGE MFG. CO., Bridgeport, Conn.
Filed June 8, 1923. Serial No. 181,704. PUBLISHED SEPTEMBER 11, 1923.

176,468. CERTAIN NAMED CLOTHING. THE STANDARD KNITTING MILLS, Los Angeles, Calif.
Filed May 31, 1923. Serial No. 181,424. PUBLISHED SEPTEMBER 18, 1923.

176,469. TIRE PUMPS, SLIP-ON CONNECTIONS FOR TIRE PUMPS, AND AIR CHUCKS. FRED I. JADEN, doing business as F. Jaden Manufacturing Co., Hastings, Nebr.
Filed May 28, 1923. Serial No. 181,282. PUBLISHED SEPTEMBER 18, 1923.

176,470. LICENSE-TAG FASTENERS FOR AUTOMOBILES AND THE LIKE. ANTHONY BENNETT ALDRICH, Washington, D. C.
Filed May 31, 1923. Serial No. 181,371. PUBLISHED SEPTEMBER 18, 1923.

176,471. DRESSES. SYDNEY MOSES, New York, N. Y.
Filed May 25, 1923. Serial No. 181,140. PUBLISHED SEPTEMBER 11, 1923.

176,472. DRESSES. SYDNEY MOSES, New York, N. Y.
Filed May 25, 1923. Serial No. 181,141. PUBLISHED SEPTEMBER 11, 1923.

176,473. TIES, CRAVATS, FOUR-IN-HAND TIES, AND BOW TIES. FRIEDMAN BROS. & SONS NECKWEAR CO. INC., New York, N. Y.
Filed May 28, 1923. Serial No. 181,271. PUBLISHED SEPTEMBER 18, 1923.

176,474. SANITARY COVERS FOR TOILET SEATS. ANNA MARY PRICE, New York, N. Y.
Filed May 24, 1923. Serial No. 181,088. PUBLISHED SEPTEMBER 18, 1923.

176,475. HOSIERY AND KNITTED UNDERWEAR. CAMPE CORPORATION, New York, N. Y.
Filed May 25, 1923. Serial No. 181,109. PUBLISHED SEPTEMBER 18, 1923.

176,476. BATHROOM FIXTURES, PARTICULARLY THE SEATS, COVERS, AND HINGES FOR THE SEATS AND COVERS OF TOILETS. C. F. CHURCH MANUFACTURING CO., Holyoke, Mass.
Filed May 25, 1923. Serial No. 181,110. PUBLISHED SEPTEMBER 18, 1923.

176,477. ARTIFICIAL TEETH. H. D. JUSTI & SON, Philadelphia, Pa.
Filed May 23, 1923. Serial No. 181,028. PUBLISHED SEPTEMBER 18, 1923.

176,478. MEN'S OUTER DRESS AND NEGLIGEE SHIRTS OF SILK, LINEN, COTTON, MIXTURES OF SILK AND LINEN AND OF SILK AND COTTON. JACOB MILLER'S SONS CO., Philadelphia, Pa.
Filed May 23, 1923. Serial No. 181,039. PUBLISHED SEPTEMBER 11, 1923.

176,479. OIL DERRICKS. VAN B. FOSTER, doing business as Fred B. Foster & Company, Los Angeles, Calif.
Filed May 24, 1923. Serial No. 181,067. PUBLISHED SEPTEMBER 18, 1923.

176,480. CALCIMINE. WEST COAST KALSOMINE COMPANY, Berkeley, Calif.
Filed May 16, 1923. Serial No. 180,729. PUBLISHED SEPTEMBER 18, 1923.

176,481. MEN'S AND BOYS' COLLARS, PYJAMAS, AND SHIRTS, INCLUDING DRESS, NEGLIGEE, AND WORK SHIRTS. HARRY BERGER, doing business as Harry Berger Shirt Company, New York, N. Y.
Filed May 17, 1923. Serial No. 180,739. PUBLISHED SEPTEMBER 11, 1923.

176,482. DRESS SHIRTS, WORK SHIRTS; UNDERWEAR FOR MEN, WOMEN, AND CHILDREN, OF KNITTED AND TEXTILE FABRICS. MINCEY MANUFACTURING COMPANY, Gainesville, Ga.
Filed May 22, 1923. Serial No. 180,982. PUBLISHED SEPTEMBER 18, 1923.

176,483. HOSIERY. THE JOHN M. GIVEN COMPANY, New York, N. Y.; Chicago, Ill.; and Pittsburgh, Pa.
Filed May 15, 1923. Serial No. 180,660. PUBLISHED SEPTEMBER 18, 1923.

176,484. HOSIERY. AMBRIDGE KNITTING COMPANY, Ambridge and Pittsburgh, Pa.
Filed May 16, 1923. Serial No. 180,680. PUBLISHED SEPTEMBER 18, 1923.

176,485. HOSIERY. THE JOHN M. GIVEN COMPANY, New York, N. Y.; Chicago, Ill.; and Pittsburgh, Pa.
Filed May 16, 1923. Serial No. 180,699. PUBLISHED SEPTEMBER 18, 1923.

176,486. METAL PIPE NIPPLES. FRED PABST COMPANY, Milwaukee, Wis.
Filed May 16, 1923. Serial No. 180,718. PUBLISHED SEPTEMBER 18, 1923.

176,487. CERTAIN CANNED GOODS. JOHN R. THOMPSON CO., Chicago, Ill.
Filed January 24, 1923. Serial No. 175,030. PUBLISHED AUGUST 21, 1923.

176,488. POULTRY FEED. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed January 22, 1923. Serial No. 174,922. PUBLISHED AUGUST 21, 1923.

176,489. WHEAT FLOUR. BAY STATE MILLING CO., Winona, Minn.
Filed January 25, 1923. Serial No. 175,061. PUBLISHED AUGUST 21, 1923.

176,490. GASOLINE, KEROSENE, AND LUBRICATING OILS. GOLDEN RULE REF. CO., Wichita, Kans.
Filed July 12, 1922. Serial No. 166,770. PUBLISHED NOVEMBER 14, 1922.

176,491. SOCKS, STOCKINGS, AND HOSIERY. FLORADEL KNITTING MILLS INC., New Orleans, La.
Filed December 1, 1922. Serial No. 172,798. PUBLISHED SEPTEMBER 18, 1923.

176,492. BREAD. WARD BAKING COMPANY, New York, N. Y.
Filed October 9, 1922. Serial No. 170,512. PUBLISHED AUGUST 21, 1923.

176,493. CERTAIN WEARING APPAREL. WALLACH BROS., New York, N. Y.
Filed September 16, 1922. Serial No. 169,569. PUBLISHED SEPTEMBER 18, 1923.

176,494. NECKTIES, CRAVATS, AND SCARFS. FRANK & MEYER NECKWEAR CO., St. Louis, Mo.
Filed August 19, 1922. Serial No. 168,465. PUBLISHED SEPTEMBER 18, 1923.

176,495. LADIES' DRESSES, BATH ROBES, APRONS, AND NEGLIGEES. MILLER BROTHERS, New York, N. Y.
Filed July 13, 1922. Serial No. 166,841. PUBLISHED SEPTEMBER 18, 1923.

176,496. HOSIERY; BOOTS AND SHOES OF LEATHER, RUBBER, AND FABRIC COMBINATIONS; OVERALLS, AND ROMPERS. SHERMAN & LEBAIR, INCORPORATED, New York, N. Y.
Filed January 11, 1923. Serial No. 174,492. PUBLISHED SEPTEMBER 18, 1923.

176,497. CITROUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT IN THEIR NATURAL STATE. GOLD BUCKLE ASSOCIATION, East Highlands, Calif.
Filed December 21, 1922. Serial No. 173,641. PUBLSHED SEPTEMBER 11, 1923.

176,498. CITROUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT IN THEIR NATURAL STATE. GOLD BUCKLE ASSOCIATION, East Highlands, Calif.
Filed December 21, 1922. Serial No. 173,637. PUBLISHED SEPTEMBER 11, 1923.

176,499. GLUE AND GELATIN GLUE. BRITISH GLUES & CHEMICALS, LIMITED, London, England.
Filed December 20, 1922. Serial No. 173,588. PUBLISHED SEPTEMBER 18, 1923.

176,500. MEN'S AND BOYS' COLLARS AND CUFFS MADE OUT OF KNITTED MATERIAL, AND WOMEN'S, GIRLS', AND MISSES' COLLARS AND CUFFS MADE OUT OF KNITTED MATERIAL. FRANKLIN SIMON & CO. INC., New York, N. Y.
Filed December 14, 1922. Serial No. 173,338. PUBLISHED SEPTEMBER 11, 1923.

176,501. LIVESTOCK FEEDS. CHARLES R. MABEE, Chicago, Ill.
Filed December 29, 1922. Serial No. 173,971. PUBLISHED AUGUST 21, 1923.

176,502. CAKES. THE COLONIAL BISCUIT COMPANY, Philadelphia, Pa.
Filed February 16, 1922. Serial No. 159,410. PUBLISHED AUGUST 7, 1923.

176,503. CERTAIN NAMED FOOD PRODUCTS. LIBBY, MCNEILL & LIBBY, Chicago, Ill.
Filed February 23, 1922. Serial No. 159,711. PUBLISHED JULY 31, 1923.

176,504. PERIODICALLY-ISSUED MAGAZINE. THE BEANPOT, Boston, Mass.
Filed May 9, 1922. Serial No. 163,571. PUBLISHED SEPTEMBER 11, 1923.

176,505. WHEAT FLOUR. TRENTON MILLING CO., Trenton, Ill.
Filed April 11, 1922. Serial No. 162,148. PUBLISHED JULY 31, 1923.

176,506. CATTLE, SWINE, DAIRY, AND POULTRY FEED. ALBERT T. PETERS, doing business as Vita-mineral Products Co., Peoria, Ill.
Filed March 24, 1922. Serial No. 161,200. PUBLISHED JULY 31, 1923.

176,507. FRESH CANTALOUPES, CASSABA, AND FRESH VEGETABLES. HALF MOON FRUIT & PRODUCE CO., San Francisco, Calif.
Filed February 27, 1922. Serial No. 159,870. PUBLISHED SEPTEMBER 11, 1923.

176,508. DRESSED POULTRY AND EGGS. J. A. SHANNON & SON, Iowa Falls, Iowa.
Filed May 26, 1922. Serial No. 164,562. PUBLISHED AUGUST 7, 1923.

176,509. YEAST AND VITAMINE FOOD PRODUCTS WHICH INVOLVE THE USE OF YEAST, SPECIFICALLY YEAST TABLETS, YEAST CAKES, YEAST IN GROUND FORM, YEAST PASTE, YEAST IN SOLUTION, AND YEAST POWDER. NORTHWESTERN YEAST COMPANY, Chicago, Ill.
Filed May 29, 1922. Serial No. 164,658. PUBLISHED AUGUST 14, 1923.

176,510. RAW MILK AND CREAM, BUTTER, CHEESE, CATTLE, FRESH APPLES, EGGS; POULTRY, ALIVE AND DRESSED FOR FOOD PURPOSES; FRESH VEGETABLES, AND FRESH CORN. WALTER MELLOR, Philadelphia, Pa., and Cummington, Mass.
Filed June 26, 1922. Serial No. 166,082. PUBLISHED JULY 31, 1923.

176,511. FLEXIBLE SHOULDER STRAPS FOR USE ON WOMEN'S WAISTS AND DRESSES FOR SUPPORTING THE SHOULDER STRAPS OF UNDERGARMENTS. HOWARD T. APPLEGATE, Montclair, N. J.
Filed June 6, 1922. Serial No. 165,054. PUBLISHED SEPTEMBER 11, 1923.

176,512. A NONCONSTIPATING HEALTH CHOCOLATE FOOD PRODUCT. PANAYIOTIS D. PANOULIAS, doing business as The American Chocolate Almond Co., Jersey City, N. J.
Filed May 24, 1922. Serial No. 164,449. PUBLISHED SEPTEMBER 11, 1923.

176,513. AUTOMOBILE ACCESSORIES. JACOB N. GOLD, doing business as Gol-Mar, Philadelphia, Pa.
Filed May 24, 1922. Serial No. 164,431. PUBLISHED JULY 17, 1923.

176,514. SOAP. ALBERT MALSIN, New York, N. Y.
Filed May 18, 1922. Serial No. 164,060. PUBLISHED SEPTEMBER 11, 1923.

176,515. WEEKLY MAGAZINE SUPPLEMENT ENCLOSED IN A NEWSPAPER. THE TRIBUNE COMPANY, Chicago, Ill.
Filed July 1, 1922. Serial No. 166,412. PUBLISHED SEPTEMBER 11, 1923.

176,516. WHEAT FLOUR. HARRISON & CO., also doing business as Harrison Flour Mills Co., New York, N. Y.
Filed July 1, 1922. Serial No. 166,371. PUBLISHED JULY 31, 1923.

176,517. WHEAT FLOUR. HARRISON & CO., also doing business as Harrison Flour Mills Co., New York, N. Y.
Filed July 10, 1922. Serial No. 166,672. PUBLISHED JULY 31, 1923.

176,518. SHOVELS, SPADES, SCOOPS, POSTHOLE DIGGERS, AND WOODEN HANDLES. BALDWIN TOOL WORKS, Parkersburg, W. Va.
Filed July 10, 1922. Serial No. 166,638. PUBLISHED SEPTEMBER 11, 1923.

176,519. FOOD FOR CHICKENS. EUGENE R. SCHOOLEY, doing business as Henry N. Schooley and Son, Luzerne, Pa.
Filed July 7, 1922. Serial No. 166,573. PUBLISHED JULY 31, 1923.

176,520. WASHING OR CLEANING POWDER. WARREN SOAP MANUFACTURING COMPANY, Boston, Mass.
Filed July 15, 1922. Serial No. 166,967. PUBLISHED SEPTEMBER 11, 1923.

176,521. WHEAT FLOUR. HARRISON & CO., also doing business as Harrison Flour Mills Co., New York, N. Y.
Filed July 10, 1922. Serial No. 166,673. PUBLISHED JULY 31, 1923.

176,522. FRESH APPLES. J. C. PALUMBO, Payette, Idaho.
Filed July 7, 1923. Serial No. 182,928. PUBLISHED SEPTEMBER 18, 1923.

176,523. LICORICE CANDY. NATIONAL LICORICE COMPANY, Brooklyn, N. Y.
Filed July 10, 1923. Serial No. 183,041. PUBLISHED SEPTEMBER 18, 1923.

176,524. STUFFED FIGS. W. C. COOK & CO., Clovis, Calif.
Filed July 11, 1923. Serial No. 183,053. PUBLISHED SEPTEMBER 18, 1923.

176,525. CANDY. GEIGER CANDY COMPANY, Indianapolis, Ind.
Filed July 11, 1923. Serial No. 183,058. PUBLISHED SEPTEMBER 18, 1923.

176,526. PERIODICALS PUBLISHED MONTHLY. HENRY KNIGHT MILLER, doing business as Psychology Publishing Company, New York, N. Y.
Filed June 29, 1923. Serial No. 182,600. PUBLISHED SEPTEMBER 11, 1923.

176,527. PERIODICAL PUBLISHED AT MONTHLY INTERVALS. REPUBLICAN WOMEN OF PENNSYLVANIA, INCORPORATED, Philadelphia, Pa.
Filed June 29, 1923. Serial No. 182,610. PUBLISHED SEPTEMBER 18, 1923.

176,528. CANNED SALMON. STUART PACKING CORPORATION, Seattle, Wash.
Filed June 29, 1923. Serial No. 182,622. PUBLISHED SEPTEMBER 11, 1923.

176,529. CERTAIN NAMED FOODS. WILLIAM L. KANN, Pittsburgh, Pa.
Filed July 5, 1923. Serial No. 182,824. PUBLISHED SEPTEMBER 18, 1923.

176,530. FRESH APPLES. JENSEN & SONS, Watsonville and Corralitos, Calif.
Filed July 7, 1923. Serial No. 182,916. PUBLISHED SEPTEMBER 18, 1923.

176,531. A NOM DE PLUME USED ON MAGAZINE ARTICLES. FAIRCHILD COMPANY, Chicago, Ill.
Filed July 6, 1923. Serial No. 182,853. PUBLISHED SEPTEMBER 18, 1923.

176,532. MARMALADE. FLORIDA PRODUCTS COMPANY, INC., New York, N. Y.
Filed June 27, 1923. Serial No. 182,505. PUBLISHED SEPTEMBER 11, 1923.

176,533. CANNED SHRIMP. GRAND LAKE & GULF SHRIMP COMPANY, Westwego, La.
Filed June 27, 1923. Serial No. 182,512. PUBLISHED SEPTEMBER 11, 1923.

176,534. CANNED SHRIMP. GRAND LAKE & GULF SHRIMP COMPANY, Westwego, La.
Filed June 27, 1923. Serial No. 182,513. PUBLISHED SEPTEMBER 11, 1923.

176,535. FRESH APPLES. CASHMERE FRUIT GROWERS UNION, Cashmere, Wash.
Filed June 29, 1923. Serial No. 182,563. PUBLISHED SEPTEMBER 11, 1923.

176,536. COCOA AND CHOCOLATE. HOOTON COCOA COMPANY, Newark, N. J.
Filed June 29, 1923. Serial No. 182,587. PUBLISHED SEPTEMBER 11, 1923.

176,537. A MONTHLY PUBLICATION. NATIONAL FEDERATION OF UNCLE SAM'S VOTERS, Washington, D. C.
Filed June 19, 1923. Serial No. 182,218. PUBLISHED SEPTEMBER 18, 1923.

176,538. CANDY. THE DOLLY VARDEN CHOCOLATE COMPANY, Cincinnati, Ohio.
Filed June 20, 1923. Serial No. 182,236. PUBLISHED SEPTEMBER 11, 1923.

176,539. CERTAIN NAMED PUBLICATIONS. INTERNATIONAL BANK, Washington, D. C.
Filed June 21, 1923. Serial No. 182,310. PUBLISHED SEPTEMBER 11, 1923.

176,540. CANNED SWEET CORN. FARIBAULT CANNING CO., Faribault, Minn.
Filed June 25, 1923. Serial No. 182,408. PUBLISHED SEPTEMBER 11, 1923.

176,541. PICKLED PIMIENTOS. SYLMAR PACKING CORPORATION, Los Angeles, Calif.
Filed June 25, 1923. Serial No. 182,449. PUBLISHED SEPTEMBER 11, 1923.

176,542. CERTAIN NAMED OILS AND GREASES. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed July 30, 1923. Serial No. 183,812. PUBLISHED SEPTEMBER 18, 1923.

176,543. LIQUID POLISH FOR PAINTED, LACQUERED, AND VENEERED SURFACES AND FOR SHELLAC. JOSEPH PALISE, doing business as Champion Specialties Co., Brooklyn, N. Y.
Filed July 14, 1923. Serial No. 183,226. PUBLISHED SEPTEMBER 18, 1923.

176,544. FLAT UNDERCOAT PAINT FOR INTERIOR WORK. THE PARAFFINE COMPANIES, INC., San Francisco, Calif.
Filed July 23, 1923. Serial No. 183,588. PUBLISHED SEPTEMBER 18, 1923.

176,545. FLAT UNDERCOAT PAINT FOR INTERIOR WORK. THE PARAFFINE COMPANIES, INC., San Francisco, Calif.
Filed July 23, 1923. Serial No. 183,591. PUBLISHED SEPTEMBER 18, 1923.

176,546. READY-MIXED PAINTS. REGULATION PAINT CO., Louisville, Ky.
Filed July 23, 1923. Serial No. 183,597. PUBLISHED SEPTEMBER 18, 1923.

176,547. CERTAIN NAMED OILS AND GREASES. WEST INDIA OIL COMPANY, Bayonne, N. J.
Filed July 25, 1923. Serial No. 183,681. PUBLISHED SEPTEMBER 18, 1923.

176,548. READY-MIXED PAINTS. REGULATION PAINT CO., Louisville, Ky.
Filed July 23, 1923. Serial No. 183,596. PUBLISHED SEPTEMBER 18, 1923.

176,549. WOOD-PRESERVING PAINTS AND SHELLAC. THE DAVEY TREE EXPERT COMPANY, Kent, Ohio.
Filed July 11, 1923. Serial No. 183,054. PUBLISHED SEPTEMBER 18, 1923.

176,550. GAUZE AND ABSORBENT COTTON. BAUER & BLACK, Chicago, Ill.
Filed July 18, 1923. Serial No. 183,355. PUBLISHED SEPTEMBER 18, 1923.

176,551. VALVES, TRAPS, AND REGULATORS FOR PIPE LINES, PLUMBING, STEAM FITTING, AND THE LIKE. KIELEY & MUELLER, INC., New York, N. Y.
Filed July 11, 1923. Serial No. 183,071. PUBLISHED SEPTEMBER 11, 1923.

176,552. FOOT-MASSAGING DEVICES. WILLIAM SAKLAD, Boston, Mass.
Filed July 12, 1923. Serial No. 183,124. PUBLISHED SEPTEMBER 18, 1923.

176,553. WRENCHES. YANCY M. BLEDSOE, Bonham, Tex.
Filed July 14, 1923. Serial No. 183,187. PUBLISHED SEPTEMBER 11, 1923.

176,554. MEN'S DRESS SHIRTS, SILK SHIRTS, AND WORK SHIRTS; BOYS' SHIRTS AND BLOUSES. LOUIS DIAMOND CO., INC., New York, N. Y.
Filed May 21, 1923. Serial No. 180,922. PUBLISHED SEPTEMBER 11, 1923.

176,555. WOMEN'S APRONS AND HOUSE DRESSES. THE STERLING COMPANY, Chicago, Ill.
Filed May 21, 1923. Serial No. 180,948. PUBLISHED AUGUST 28, 1923.

176,556. SANITARY APRONS AND SANITARY BELTS. A. STEIN & COMPANY, Chicago, Ill.
Filed July 9, 1923. Serial No. 183,002. PUBLISHED SEPTEMBER 18, 1923.

176,557. WRENCHES AND PARTS THEREOF. HENRY & ALLEN, Auburn, N. Y.
Filed July 10, 1923. Serial No. 183,034. PUBLISHED SEPTEMBER 11, 1923.

176,558. HOSIERY. SOCKS, AND STOCKINGS OF EVERY KIND AND DESCRIPTION AND KNITTED UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. CAMPE-DAVIS-BLAIR CO. INC., New York, N. Y.
Filed May 17, 1923. Serial No. 180,747. PUBLISHED SEPTEMBER 18, 1923.

176,559. DRESS AND NEGLIGEE SHIRTS. COLUMBIA SHIRT COMPANY, New York, N. Y.
Filed May 18, 1923. Serial No. 180,788. PUBLISHED SEPTEMBER 11, 1923.

176,560. DRESS AND NEGLIGEE SHIRTS. COLUMBIA SHIRT COMPANY, New York, N. Y.
Filed May 18, 1923. Serial No. 180,789. PUBLISHED SEPTEMBER 11, 1923.

176,561. CERTAIN ARTICLES OF CLOTHING. MAGNUS IMPORTS, LTD., New York, N. Y.
Filed May 19, 1923. Serial No. 180,871. PUBLISHED SEPTEMBER 18, 1923.

176,562. VULCANIZED-FIBER CONTAINERS OF VARIOUS SIZES, WITH AND WITHOUT COVERS, FOR KITCHEN, BATHROOM, LAUNDRY, LIBRARY, AND OTHER USES. FIBRE SPECIALTY MFG. CO., Kennett Square, Pa.; Boston, Mass.; New York, N. Y.; Philadelphia, Pa.; St. Louis, Mo.; Chicago, Ill.
Filed May 10, 1923. Serial No. 180,426. PUBLISHED SEPTEMBER 18, 1923.

176,563. WRAPPING PAPER. THE UNION PAPER & TWINE CO., Cleveland, Ohio.
Filed May 12, 1923. Serial No. 180,567. PUBLISHED AUGUST 7, 1923.

176,564. GLOBE AND GATE VALVES FOR STEAM, WATER, BRINE, AND OTHER ORDINARY LIQUIDS AND GASES. JENKINS BROS. LIMITED, Montreal, Quebec, Canada.
Filed May 14, 1923. Serial No. 180,605. PUBLISHED SEPTEMBER 18, 1923.

176,565. OVERCOATS, RAINCOATS, SMOKING JACKETS, HOUSE COATS, NORFOLK JACKETS, TOPCOATS, GOLF SUITS, AND SPORT SUITS. HEIDELBERG, WOLFF & CO., New York, N. Y.
Filed April 26, 1923. Serial No. 179,727. PUBLISHED SEPTEMBER 11, 1923.

176,566. BREAD. UNION BAKERY, Marion, Ohio.
Filed April 25, 1923. Serial No. 179,691. PUBLISHED SEPTEMBER 18, 1923.

176,567. WHEAT FLOUR. MARTIN BOYD & CO., Memphis, Tenn.
Filed April 5, 1923. Serial No. 178,589. PUBLISHED SEPTEMBER 18, 1923.

176,568. LEMON-MERINGUE PIES. SUNKIST LEMON PIE COMPANY, Chicago, Ill.
Filed April 4, 1923. Serial No. 178,576. PUBLISHED SEPTEMBER 18, 1923.

176,569. MEN'S, WOMEN'S, MISSES', AND CHILDREN'S HOSIERY. D. B. MAY, doing business as D. B. May Hosiery Mills, Burlington, N. C.
Filed April 4, 1923. Serial No. 178,562. PUBLISHED SEPTEMBER 18, 1923.

176,570. COATS, CAPES, SCARFS, NECK PIECES, AND MUFFS MADE OF FUR. JALKOFF BROS. INC., New York, N. Y.
Filed April 3, 1923. Serial No. 178,505. PUBLISHED SEPTEMBER 18, 1923.

176,571. CAPS FOR MEN, WOMEN, AND CHILDREN; SWEATERS, FABRIC LEGGINGS, SCARFS, BATHING SUITS, HOSE, FABRIC GLOVES. JOSEPH B. SHANSBY, Seattle, Wash.
Filed April 3, 1923. Serial No. 178,534. PUBLISHED SEPTEMBER 18, 1923.

176,572. BREAD. PAUL O. SAMPSON, doing business as Life O Wheat Milling & Baking Co., Portland, Oreg.
Filed March 29, 1923. Serial No. 178,289. PUBLISHED AUGUST 21, 1923.

176,573. BATHROOM FIXTURES, ETC. JOSEPH A. HOEGGER, Jersey City, N. J.
Filed April 3, 1923. Serial No. 178,503. PUBLISHED SEPTEMBER 18, 1923.

176,574. HOMINY. AMERICAN HOMINY COMPANY, Chicago, Ill.
Filed March 28, 1923. Serial No. 178,156. PUBLISHED AUGUST 21, 1923.

176,575. FRAMES, RIMS, AND NOSE PIECES FOR EYEGLASSES, AND CELLULOID APPLIANCES FOR EYEGLASSES. OPTICAL PRODUCTS CORPORATION, New York, N. Y.
Filed March 28, 1923. Serial No. 178,184. PUBLISHED SEPTEMBER 18, 1923.

176,576. FRENCH DRESSING, OLIVE OIL, CHEESE, AND CHEESE DRESSING. MATTE LOCCI, doing business as Matte Locci Co., Chicago, Ill.
Filed March 29, 1923. Serial No. 178,265. PUBLISHED AUGUST 21, 1923.

176,577. POULTRY FEEDS. M. C. PETERS MILL CO., Omaha, Nebr.
Filed March 24, 1923. Serial No. 177,993. PUBLISHED AUGUST 21, 1923.

176,578. WHEAT FLOUR. INTERNATIONAL MILLING COMPANY, Minneapolis, Minn.
Filed March 26, 1923. Serial No. 178,044. PUBLISHED AUGUST 21, 1923.

176,579. PLUMBERS' SUPPLIES—NAMELY, VENT CAPS, REPAIR PLATES, WATER-BOX LIDS, PLUGS FOR FRESH-AIR INLETS, STABLE TRAP BELLS, AND NO-BOLT WATER-BOX LIDS. THE EASTERN FOUNDRY COMPANY, Boyertown, Pa.
Filed March 27, 1923. Serial No. 178,095. PUBLISHED June 12, 1923.

176,580. CAKE AND CAKE MIX. JOE LOWE CO. INC., Brooklyn, N. Y.
Filed March 27, 1923. Serial No. 178,109. PUBLISHED AUGUST 21, 1923.

176,581. WHEAT FLOUR. WASHBURN-CROSBY COMPANY, Minneapolis, Minn.
Filed March 20, 1923. Serial No. 177,754. PUBLISHED AUGUST 21, 1923.

176,582. STOCK FEED. ALFOCORN MILLING COMPANY, doing business as Consolidated Mills Company, St. Louis, Mo.
Filed March 22, 1923. Serial No. 177,811. PUBLISHED AUGUST 21, 1923.

176,583. UNDERSHIRTS, UNDERDRAWERS, AND UNION SUITS MADE OF KNITTED FABRIC FOR MEN. TRYON MILLS OF VERMONT, Bennington, Vt.
Filed March 23, 1923. Serial No. 177,930. PUBLISHED AUGUST 14, 1923.

176,584. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. THE DEFIANCE GROCERY COMPANY, Defiance, Ohio.
Filed March 13, 1923. Serial No. 177,367. PUBLISHED AUGUST 21, 1923.

176,585. CANDLES. JACK BECHDOLT and MABEL BECHDOLT, doing business as Mabel Claire Studio, New York, N. Y.
Filed March 14, 1923. Serial No. 177,427. PUBLISHED SEPTEMBER 18, 1923.

176,586. PLUMBERS' WARE. THE GROENIGER MANUFACTURING COMPANY, Columbus, Ohio.
Filed March 15, 1923. Serial No. 177,486. PUBLISHED SEPTEMBER 18, 1923.

176,587. OVERCOATS, RAINCOATS, SMOKING JACKETS, HOUSE COATS, NORFOLK JACKETS, TOPCOATS, GOLF SUITS, AND SPORT SUITS. HEIDELBERG, WOLFF & CO., New York, N. Y.
Filed April 26, 1923. Serial No. 179,728. PUBLISHED SEPTEMBER 11, 1923.

176,588. MEN'S, YOUTHS', BOYS', AND LADIES' CLOTHING. JOHN C. SHANNON, London, England.
Filed May 9, 1923. Serial No. 180,398. PUBLISHED SEPTEMBER 18, 1923.

176,589. AGRICULTURAL HAND IMPLEMENTS FOR HOEING AND DIGGING. THE AMERICAN FORK & HOE COMPANY, Cleveland, Ohio.
Filed April 23, 1923. Serial No. 179,509. PUBLISHED SEPTEMBER 11, 1923.

176,590. WHEAT FLOUR. STATE LINE MILLING CO., Kiowa, Kans.
Filed April 14, 1923. Serial No. 179,170. PUBLISHED SEPTEMBER 11, 1923.

176,591. WHEAT FEED, SHORTS, AND CORN MEAL. CAPE COUNTY MILLING CO., Jackson, Mo.
Filed April 16, 1923. Serial No. 179,182. PUBLISHED SEPTEMBER 18, 1923.

176,592. CEREAL MADE FROM WHEAT. SIMS MILLING COMPANY, Frankfort, Ind.
Filed April 16, 1923. Serial No. 179,229. PUBLISHED SEPTEMBER 18, 1923.

176,593. METALLIC ALLOYS. DU PONT ENGINEERING COMPANY, Wilmington, Del.
Filed April 11, 1923. Serial No. 178,981. PUBLISHED SEPTEMBER 18, 1923.

176,594. ROPE AND TWINE. COMPANIA DE JARCIA DE MATANZAS S. A., Matanzas, Cuba.
Filed April 14, 1923. Serial No. 179,135. PUBLISHED SEPTEMBER 18, 1923.

176,595. STOCK FEED—TO WIT, MIXED FEED, SCREENINGS, AND FLOUR MIDDLINGS. I. S. JOSEPH COMPANY, Minneapolis, Minn.
Filed April 14, 1923. Serial No. 179,151. PUBLISHED SEPTEMBER 11, 1923.

176,596. WOODEN HAMPERS FOR SHIPPING SPINACH AND LIKE VEGETABLES. RAY B. WHITE, doing business as The R. B. White Co, Bigwells, Tex.
Filed April 6, 1923. Serial No. 178,686. PUBLISHED SEPTEMBER 18, 1923.

176,597. HOSIERY. CHARLES H. GOEPEL, Jr., Philadelphia, Pa.
Filed April 7, 1923. Serial No. 178,719. PUBLISHED SEPTEMBER 11, 1923.

176,598. OILY COMPOUND FOR USE IN TREATING THE SURFACES OF STOVES AND FURNACES. GEORGE H. JOHNSON, Worcester, Mass.
Filed April 9, 1923. Serial No. 178,850. PUBLISHED SEPTEMBER 18, 1923.

176,599. SPRINGS AND COIL SPRINGS, HOT-ROLLED AND COLD-DRAWN SEAMLESS STEEL TUBING. SANDVIKENS JERNVERKS ARTIEBOLAG, Sandviken, Sweden.
Filed April 9, 1923. Serial No. 178,871. PUBLISHED SEPTEMBER 18, 1923.

176,600. HORSE AND MULE FEED, HOG FEED, DAIRY FEED, OX FEED, AND SCRATCH FEED. JOHN M. WILSON, doing business as Meridian Grain & Elevator Company, Meridian, Miss.
Filed April 5, 1923. Serial No. 178,649. PUBLISHED SEPTEMBER 11, 1923.

176,601. WHEAT FLOUR. VIGNES-BOMBET GROCER CO., INC., Baton Rouge, La.
Filed April 5, 1923. Serial No. 178,645. PUBLISHED SEPTEMBER 18, 1923.

176,602. MONTHLY MAGAZINES. ST. LOUIS ESTES, Chicago, Ill.
Filed April 26, 1923. Serial No. 179,716. PUBLISHED SEPTEMBER 11, 1923.

176,603. METAL POLISHES. JOHN T. WOOD, St. Louis, Mo.
Filed April 30, 1923. Serial No. 179,981. PUBLISHED SEPTEMBER 11, 1923.

176,604. CANDY. THE BONITA CO., Fond du Lac, Wis.
Filed April 28, 1923. Serial No. 179,849. PUBLISHED SEPTEMBER 11, 1923.

176,605. CANDIES. DOUGLASS CARAMEL COMPANY, Wilmington, Del., and Philadelphia, Pa.
Filed April 24, 1923. Serial No. 179,591. PUBLISHED SEPTEMBER 18, 1923.

176,606. CHOWCHOW PICKLE, SWEET MIXED PICKLES, SOUR MIXED PICKLES, SOUR ONIONS, SOUR GHERKINS, SWEET RELISH, HORSE-RADISH, PREPARED MUSTARD, CIDER VINEGAR, DISTILLED SPIRIT VINEGAR, AND TABLE AND PICKLING VINEGAR. THE SILVER LANE PICKLE COMPANY, East Hartford, Conn.
Filed April 23, 1923. Serial No. 179,562. PUBLISHED SEPTEMBER 11, 1923.

176,607. LADIES' AND GIRLS' KNIT UNDERWEAR. READING UNDERWEAR CO., Reading, Pa.
Filed April 23, 1923. Serial No. 179,554. PUBLISHED SEPTEMBER 18, 1923.

176,608. CANDY. STANDARD CANDY COMPANY, Nashville, Tenn.
Filed April 21, 1923. Serial No. 179,492. PUBLISHED SEPTEMBER 11, 1923.

176,609. DRIED FRUIT AND SALTED-NUT MIXTURE. SELECT PACKING CO., Easton, Pa.
Filed April 21, 1923. Serial No. 179,487. PUBLISHED SEPTEMBER 11, 1923.

176,610. WRITING PAPER, TABLETS, PAPETERIES, BRISTOL BOARD, AND ENVELOPES. THE CENTRAL OHIO PAPER COMPANY, Columbus, Ohio.
Filed April 21, 1923. Serial No. 179,458. PUBLISHED SEPTEMBER 11, 1923.

176,611. CANNED TOMATOES AND PRESERVED PICKLES. KEOKUK CANNING COMPANY, Keokuk, Iowa.
Filed April 17, 1923. Serial No. 179,276. PUBLISHED SEPTEMBER 11, 1923.

176,612. COFFEE. THOMAS J. WEBB COMPANY, Chicago, Ill.
Filed April 12, 1923. Serial No. 179,075. PUBLISHED SEPTEMBER 11, 1923.

176,613. COCOA AND CHOCOLATE. THE CHARLES H. PHILLIPS CHEMICAL CO., Glenbrook, Conn., and New York, N. Y.
Filed April 2, 1923. Serial No. 178,465. PUBLISHED SEPTEMBER 11, 1923.

176,614. WHEAT FLOUR. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed January 23, 1923. Serial No. 174,914. PUBLISHED AUGUST 7, 1923.

176,615. CHEESE. MAX O. SCHAEFER, doing business as Velveeta Cheese Company, Monroe, N. Y., assignor to Velveeta Cheese Company, Inc., Monroe, N. Y., a Corporation of New York.
Filed January 20, 1923. Serial No. 174,866. PUBLISHED JULY 24, 1923.

176,616. BUTTER. ANNA CREAMERY COMPANY, Anna, Ohio.
Filed January 17, 1923. Serial No. 174,685. PUBLISHED JULY 31, 1923.

176,617. WHEAT FLOUR. THE SOUTHWESTERN MILLING COMPANY INC., New York, N. Y.
Filed January 13, 1923. Serial No. 174,597. PUBLISHED JULY 31, 1923.

176,618. STOCK AND POULTRY FEED. CASE-TEEL COMPANY, INC., Jackson, Miss., and New Orleans, La.
Filed January 12, 1923. Serial No. 174,509. PUBLISHED JULY 31, 1923.

176,619. STOCK FEED. RYDE & COMPANY, Chicago, Ill.
Filed January 11, 1923. Serial No. 174,490. PUBLISHED JULY 24, 1923.

176,620. CHICKEN FEED. RYDE & COMPANY, Chicago, Ill.
Filed January 11, 1923. Serial No. 174,489. PUBLISHED JULY 24, 1923.

176,621. MEATS, HAMS, BACON, LARD, PORK LOINS, AND SAUSAGE. ILLINOIS MEAT COMPANY, Chicago, Ill.
Filed January 8, 1923. Serial No. 174,306. PUBLISHED SEPTEMBER 18, 1923.

176,622. ROTARY DRILL BITS, REAMERS, FISHING TOOLS FOR OIL AND WATER WELLS. REED ROLLER BIT CO., Houston, Tex.
Filed February 8, 1922. Serial No. 159,055. PUBLISHED SEPTEMBER 18, 1923.

176,623. NEGLIGEE SHIRTS, COLLARS, PYJAMAS, DRESSING GOWNS AND JACKETS, BLOUSES, NIGHTDRESSES, KNITTED UNDERWEAR, AND CHILDREN'S DRESSES, HOSIERY, AND BOOTEES. WILLIAM HOLLINS & CO. LTD., London and Mansfield, England.
Filed March 21, 1922. Serial No. 161,005. PUBLISHED SEPTEMBER 18, 1923.

176,624. WAISTBANDS. SEE THE POINT WAISTBAND COMPANY, INC., New York, N. Y.
Filed April 1, 1922. Serial No. 161,651. PUBLISHED SEPTEMBER 18, 1923.

176,625. SCISSORS. NOBLE C. TOOPS, doing business as Toops Bros., Chicago, Ill.
Filed April 12, 1922. Serial No. 162,218. PUBLISHED SEPTEMBER 18, 1923.

176,626. REELS UPON WHICH WIRE IS WOUND. FRED YURCICH, Farrell, Pa.
Filed April 12, 1922. Serial No. 162,233. PUBLISHED SEPTEMBER 18, 1923.

176,627. FOODS AND INGREDIENTS OF FOODS. UNITED FRUIT COMPANY, Boston, Mass.
Filed May 2, 1922. Serial No. 163,242. PUBLISHED AUGUST 21, 1923.

176,628. MEASURING APPLIANCES—NAMELY, LUBRICATION METERS. RADIO ENGINEERING COMPANY OF NEW YORK, INC., Gloucester, Mass.
Filed April 21, 1922. Serial No. 162,695. PUBLISHED SEPTEMBER 11, 1923.

176,629. BRASS, BRONZE, ALUMINUM, BABBIT AND WHITE METAL INGOTS AND CASTINGS. A. GILBERT & SONS BRASS FOUNDRY CO., St. Louis, Mo.
Filed May 8, 1922. Serial No. 163,515. PUBLISHED SEPTEMBER 18, 1923.

176,630. SPEEDOMETERS. AC SPARK PLUG COMPANY, Flint, Mich.
Filed May 8, 1922. Serial No. 163,493. PUBLISHED SEPTEMBER 25, 1923.

176,631. CERTAIN NAMED FOODS. UNITED FRUIT COMPANY, Boston, Mass.
Filed May 2, 1922. Serial No. 163,245. PUBLISHED AUGUST 21, 1923.

176,632. THERMOMETERS. TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y.
Filed May 13, 1922. Serial No. 163,836. PUBLISHED SEPTEMBER 25, 1923.

176,633. HYGROMETERS. TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y.
Filed May 13, 1922. Serial No. 163,834. PUBLISHED SEPTEMBER 25, 1923.

176,634. THERMOSTATIC TEMPERATURE-REGULATING APPARATUS. TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y.
Filed May 13, 1922. Serial No. 163,837. PUBLISHED SEPTEMBER 25, 1923.

176,635. CERTAIN NAMED MEASURING AND SCIENTIFIC APPLIANCES. THE IMPERIAL TRUST FOR THE ENCOURAGEMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, London, England.
Filed May 17, 1922. Serial No. 163,983. PUBLISHED SEPTEMBER 18, 1923.

176,636. THERMOSTATIC TEMPERATURE-REGULATING APPARATUS. TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y.
Filed May 13, 1922. Serial No. 163,839. PUBLISHED SEPTEMBER 25, 1923.

176,637. THERMOSTATIC TEMPERATURE-REGULATING APPARATUS. TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y.
Filed May 13, 1922. Serial No. 163,838. PUBLISHED SEPTEMBER 25, 1923.

176,638. LARD. THE E. KAHN'S SONS COMPANY, Cincinnati, Ohio.
Filed June 13, 1922. Serial No. 165,451. PUBLISHED SEPTEMBER 18, 1923.

176,639. SCIENTIFIC APPLIANCES, ETC. THE IMPERIAL TRUST FOR THE ENCOURAGEMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, London, England.
Filed May 17, 1922. Serial No. 163,984. PUBLISHED SEPTEMBER 18, 1923.

176,640. STOCK FEED, PARTICULARLY HORSE AND MULE FEED. THE UHIKO MILLING COMPANY, Cincinnati, Ohio.
Filed June 22, 1922. Serial No. 165,900. PUBLISHED AUGUST 21, 1923.

176,641. FLOOR POLISH IN THE NATURE OF POWDERED WAX. WILLIAM KINNELL PETRIE, Dundee, Scotland.
Filed June 26, 1922. Serial No. 166,091. PUBLISHED SEPTEMBER 18, 1923.

176,642. CERTAIN ARTICLES OF CLOTHING. THE S. J. SAGER COMPANY, INC., Syracuse, N. Y.
Filed December 19, 1921. Serial No. 156,934. PUBLISHED SEPTEMBER 18, 1923.

176,643. DAIRY PRODUCTS—NAMELY, CHEESE, BUTTER, AND EGGS. PURITAS FARMS, INC., Newburgh, N. Y.
Filed July 29, 1921. Serial No. 151,098. PUBLISHED AUGUST 21, 1923.

176,644. HEELS MADE OF RUBBER OR ANALOGOUS MATERIAL FOR FOOTWEAR. THE PIETZUCH WONDER ARCH GUIDE HEEL COMPANY, Cincinnati, Ohio.
Filed February 24, 1921. Serial No. 143,996. PUBLISHED SEPTEMBER 18, 1923.

176,645. CAKE. TASTY BAKING COMPANY, Philadelphia, Pa.
Filed December 23, 1921. Serial No. 157,084. PUBLISHED JULY 24, 1923.

176,646. CERTAIN NAMED FOODS. DUNLEVY PACKING COMPANY, Pittsburgh, Pa., assignor to Dunlevy-Franklin Company, a Corporation of Pennsylvania.
Filed November 21, 1921. Serial No. 155,668. PUBLISHED JULY 24, 1923.

176,647. CIDER AND GRAPE JUICE. ROSCOE HAEGELIN CO., Santa Rosa, Calif.
Filed August 27, 1921. Serial No. 152,277. PUBLISHED OCTOBER 18, 1921.

176,648. BUTTER, EGGS, AND CHEESE. TAYLOR PRODUCE CO., Kalamazoo and Battle Creek, Mich.
Filed July 15, 1921. Serial No. 150,413. PUBLISHED AUGUST 7, 1923.

176,649. MOTOR-VEHICLE WINDSHIELD SHADES. MOTOVISOR COMPANY, St. Paul, Minn.
Filed June 30, 1921. Serial No. 149,858. PUBLISHED SEPTEMBER 11, 1923.

176,650. WHEAT FLOUR. ANSEL S. LEO., New York, N. Y.
Filed February 19, 1921. Serial No. 143,823. PUBLISHED JULY 31, 1923.

176,651. BAKERS' VANILLA, TOMATO BOUILLON, MARSHMALLOW FROST, TUTTI-FRUTTI, COCOA PASTE, CARAMEL SUNDAE, MAPLE-WALNUT SUNDAE, BUTTERSCOTCH SUNDAE. KEYSTONE FRUIT PRODUCTS COMPANY, Cincinnati, Ohio.
Filed February 12, 1921. Serial No. 143,501. PUBLISHED AUGUST 28, 1923.

176,652. COFFEE AND TEA. LEON ISRAEL & BROS. INC., New York, N. Y.
Filed November 20, 1919. Serial No. 125,112. PUBLISHED SEPTEMBER 11, 1923.

176,653. AX, ADZ, PICK, SLEDGE, MAUL, HAMMER, HATCHET, AND RAILROAD AND MINING TOOL HANDLES. HARTWELL BROTHERS, Memphis, Tenn.
Filed July 7, 1923. Serial No. 182,913. PUBLISHED SEPTEMBER 18, 1923.

176,654. FURNITURE SLIDES. THE TURNER & SEYMOUR MANUFACTURING CO., Torrington, Conn.
Filed June 12, 1923. Serial No. 181,922. PUBLISHED SEPTEMBER 18, 1923.

176,655. AX, ADZ, PICK, SLEDGE, MAUL, HAMMER, HATCHET, AND RAILROAD AND MINING TOOL HANDLES. HARTWELL BROTHERS, Memphis, Tenn.
Filed July 7, 1923. Serial No. 182,912. PUBLISHED SEPTEMBER 18, 1923.

176,656. GATES FOR GRANULAR MATERIALS. BEAUMONT MFG., COMPANY, Philadelphia, Pa.
Filed June 13, 1923. Serial No. 181,930. PUBLISHED SEPTEMBER 11, 1923.

176,657. AX, ADZ, PICK, SLEDGE, MAUL, HAMMER, HATCHET, AND RAILROAD AND MINING TOOL HANDLES. HARTWELL BROTHERS, Memphis, Tenn.
Filed July 7, 1923. Serial No. 182,911. PUBLISHED SEPTEMBER 18, 1923.

176,658. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. WILLIAM H. BEARMAN, Baltimore, Md.
Filed June 14, 1923. Serial No. 181,973. PUBLISHED SEPTEMBER 18, 1923.

176,659. POPPET VALVES. FANSTEEL PRODUCTS COMPANY, INC., North Chicago, Ill.
Filed July 9, 1923. Serial No. 182,965. PUBLISHED SEPTEMBER 11, 1923.

176,660. HOSIERY. THOMAS G. PLANT COMPANY, Boston, Mass.
Filed June 13, 1923. Serial No. 181,958. PUBLISHED SEPTEMBER 18, 1923.

176,661. POPPET VALVES. FANSTEEL PRODUCTS COMPANY, INC., North Chicago, Ill.
Filed July 9, 1923. Serial No. 182,964. PUBLISHED SEPTEMBER 11, 1923.

176,662. LUBRICATING OILS. FRANKLYN M. ZIMMERMAN, Pittsburgh, Pa.
Filed June 14, 1923. Serial No. 182,031. PUBLISHED SEPTEMBER 18, 1923.

176,663. AX, ADZ, PICK, SLEDGE, MAUL, HAMMER, HATCHET, AND RAILROAD AND MINING TOOL HANDLES. HARTWELL BROTHERS, Memphis, Tenn.
Filed July 7, 1923. Serial No. 182,915. PUBLISHED SEPTEMBER 18, 1923.

176,664. CERTAIN NAMED PLUMBING AND STEAM-FITTING SUPPLIES. G. M. DAVIS REGULATOR COMPANY, Chicago, Ill.
Filed June 16, 1923. Serial No. 182,088. PUBLISHED SEPTEMBER 18, 1923.

176,665. CERTAIN NAMED TOOLS. CROWN DIE AND TOOL COMPANY, Chicago, Ill.
Filed June 11, 1923. Serial No. 181,818. PUBLISHED SEPTEMBER 11, 1923.

176,666. ENAMEL FINISH. RALPH D. FREEMAN, doing business as The Savol Co., Cleveland, Ohio.
Filed June 19, 1923. Serial No. 182,205. PUBLISHED SEPTEMBER 18, 1923.

176,667. CARBURETORS AND PARTS THEREOF. THE EAGLE CARBURETOR COMPANY, Cleveland, Ohio.
Filed June 11, 1923. Serial No. 181,823. PUBLISHED SEPTEMBER 11, 1923.

176,668. HARVESTERS AND THRASHERS AND COMBINED HARVESTERS AND THRASHERS. THE HOLT MANUFACTURING COMPANY, Stockton, Calif.
Filed June 19, 1923. Serial No. 182,213. PUBLISHED SEPTEMBER 11, 1923.

176,669. WATER-POWER BEATER AND WHIPPER. THE P-K MANUFACTURING COMPANY, Cleveland, Ohio.
Filed June 20, 1923. Serial No. 182,257. PUBLISHED SEPTEMBER 11, 1923.

176,670. CARTONS AND BOARDS MADE OF PASTEBOARD, FIBER BOARD, OR THE LIKE. WELDFAST SYSTEM, INC., Salem, Mass.
Filed June 21, 1923. Serial No. 182,324. PUBLISHED SEPTEMBER 18, 1923.

176,671. HORSE COLLARS, HARNESS, AND HARNESS PARTS. BONA ALLEN, INC., Buford, Ga.
Filed June 22, 1923. Serial No. 182,327. PUBLISHED SEPTEMBER 18, 1923.

176,672. AUTOMOBILE ACCESSORIES, PARTICULARLY FOOT THROTTLES. AMERICAN MECHANICAL WORKS, Los Angeles, Calif.
Filed June 25, 1923. Serial No. 182,393. PUBLISHED SEPTEMBER 11, 1923.

176,673. RAZOR SETS. AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y.
Filed June 27, 1923. Serial No. 182,493. PUBLISHED SEPTEMBER 11, 1923.

176,674. ELEVATORS. HUMPHREY ELEVATOR CO., Faribault, Minn.
Filed July 5, 1923. Serial No. 182,815. PUBLISHED SEPTEMBER 25, 1923.

176,675. AX, ADZ, PICK, SLEDGE, MAUL, HAMMER AND HATCHET, AND RAILROAD AND MINING TOOL HANDLES. HARTWELL BROTHERS, Memphis, Tenn.
Filed July 7, 1923. Serial No. 182,906. PUBLISHED SEPTEMBER 18, 1923.

176,676. AX, ADZ, PICK, SLEDGE, MAUL, HAMMER AND HATCHET, AND RAILROAD AND MINING TOOL HANDLES. HARTWELL BROTHERS, Memphis, Tenn.
Filed July 7, 1923. Serial No. 182,907. PUBLISHED SEPTEMBER 18, 1923.

176,677. AX, ADZ, PICK, SLEDGE, MAUL, HAMMER, HATCHET, AND RAILROAD AND MINING TOOL HANDLES. HARTWELL BROTHERS, Memphis, Tenn.
Filed July 7, 1923. Serial No. 182,909. PUBLISHED SEPTEMBER 18, 1923.

176,678. AX, ADZ, PICK, SLEDGE, MAUL, HAMMER, HATCHET, AND RAILROAD AND MINING TOOL HANDLES. HARTWELL BROTHERS, Memphis, Tenn.
Filed July 7, 1923. Serial No. 182,910. PUBLISHED SEPTEMBER 18, 1923.

176,679. COOKIES. BISHOP & COMPANY, Los Angeles, Calif.
Filed January 23, 1923. Serial No. 174,955. PUBLISHED JULY 31, 1923.

176,680. LARD. SCHAFFNER BROTHERS COMPANY, Erie, Pa.
Filed September 25, 1922. Serial No. 169,930. PUBLISHED SEPTEMBER 18, 1923.

176,681. WHEAT FLOUR. THE LONGMONT FARMERS MILLING & ELEVATOR CO., Longmont, Colo.
Filed September 20, 1922. Serial No. 169,722. PUBLISHED JULY 31, 1923.

176,682. ALIMENTARY PASTE PRODUCTS. A. GOODMAN & SONS, INC., New York, N. Y.
Filed September 16, 1922. Serial No. 169,545. PUBLISHED SEPTEMBER 11, 1923.

176,683. EXPORT CREAM, CONDENSED MILK, AND CHEESE. EDVARD SMIDT, Nybollegaard, Denmark.
Filed September 14, 1922. Serial No. 169,458. PUBLISHED AUGUST 7, 1923.

176,684. ARTICLE OF FOOD COMPOSED OF GROUND MEATS, CATCHUP, AND CRACKERS. HARRINGTON & HORD, Fort Worth, Tex.
Filed September 6, 1922. Serial No. 169,129. PUBLISHED JULY 31, 1923.

176,685. EGGS. SPANGENBERG & CO., Chicago, Ill.
Filed August 19, 1922. Serial No. 168,494. PUBLISHED JULY 31, 1923.

176,686. CANDY. AMBROSIA CHOCOLATE CO., Milwaukee, Wis.
Filed August 11, 1922. Serial No. 168,094. PUBLISHED AUGUST 21, 1923.

176,687. MILK, BUTTER. CHAS. J. DAVOL, North Kingstown, R. I.
Filed August 2, 1922. Serial No. 167,714. PUBLISHED JULY 31, 1923.

176,688. CANDY. THE W. R. MONTAGUE COMPANY, La Crosse, Wis.
Filed July 29, 1922. Serial No. 167,580. PUBLISHED JULY 31, 1923.

176,689. EATABLE TABLETS OR CAKES COMPOSED OF KERNELS OF SEED, NUTS, AND FRUIT. ANNA M. DELMAS, North Plainfield, N. J.
Filed July 29, 1922. Serial No. 167,557. PUBLISHED SEPTEMBER 11, 1923.

176,690. OLIVE OIL. F. ROMEO & CO. INC., New York, N. Y.
Filed July 25, 1922. Serial No. 167,364. PUBLISHED AUGUST 21, 1923.

176,691. CEREAL BREAKFAST FOODS, WHEAT FLOUR, PANCAKE FLOUR, AND BUCKWHEAT FLOUR. THE WHEACO CEREAL CORPORATION, Denver, Colo.
Filed July 19, 1922. Serial No. 167,111. PUBLISHED JULY 31, 1923.

176,692. BREAKFAST CEREAL FOODS. THE HOME FOOD SERVICE COMPANY, INCORPORATED, Denver, Colo.
Filed July 19, 1922. Serial No. 167,084. PUBLISHED JULY 31, 1923.

176,693. NEWSPAPER. THE CLEVELAND SHOPPING NEWS COMPANY, Cleveland, Ohio.
Filed February 16, 1922. Serial No. 159,409. PUBLISHED SEPTEMBER 11, 1923.

176,694. FLOUR IMPROVERS, A COMPOUND CONSISTING OF GLYCERINE, OILS, AND FATS. DE BRUYN, LIMITED, London, England.
Filed February 1, 1922. Serial No. 158,705. PUBLISHED AUGUST 7, 1923.

176,695. CONCENTRATED MILK WITHOUT SUGAR. NESTLÉ & ANGLO-SWISS CONDENSED MILK CO., Cham and Vevey, Switzerland.
Filed January 7, 1922. Serial No. 157,628. PUBLISHED SEPTEMBER 18, 1923.

176,696. CAFÉ AU LAIT. NESTLÉ & ANGLO-SWISS CONDENSED MILK CO., Cham and Vevey, Switzerland.
Filed January 7, 1922. Serial No. 157,627. PUBLISHED SEPTEMBER 18, 1923.

176,697. CONDENSED MILK. NESTLÉ & ANGLO-SWISS CONDENSED MILK CO., Cham and Vevey, Switzerland.
Filed January 7, 1922. Serial No. 157,625. PUBLISHED SEPTEMBER 11, 1923.

176,698. COOKIES. BISHOP & COMPANY, Los Angeles, Calif.
Filed January 23, 1923. Serial No. 174,956. PUBLISHED JULY 31, 1923.

176,699. WASHING CLEANSER. NEUTRAL SOAP CO., Chicago, Ill.
Filed February 26, 1923. Serial No. 176,642. PUBLISHED SEPTEMBER 11, 1923.

176,700. NUTS IN THEIR NATURAL STATE, SALTED NUTS, GRANULATED NUTS, AND PEANUT BUTTER. PEDIGREED PRODUCTS CORPORATION, Elmira, N. Y.
Filed February 26, 1923. Serial No. 176,648. PUBLISHED SEPTEMBER 11, 1923.

176,701. FOODS AND RELISHES. C. PERCEVAL, New York, N. Y.
Filed March 6, 1923. Serial No. 177,049. PUBLISHED SEPTEMBER 11, 1923.

176,702. DUPLICATING ROLLS COMPRISING A BASE OR FOUNDATION AND A LAYER OF DUPLICATING MATERIAL, AS GELATIN. THE BECK DUPLICATOR COMPANY, New York, N. Y.
Filed March 7, 1923. Serial No. 177,065. PUBLISHED SEPTEMBER 11, 1923.

176,703. MATTRESSES. JOHN HOEY & CO., San Francisco, Calif.
Filed March 7, 1923. Serial No. 177,085. PUBLISHED SEPTEMBER 11, 1923.

176,704. CANDIES, CANDY CONFECTIONS, SWEETMEATS, AND CHEWING GUM. IDEAL CARAMEL COMPANY, INC., Johnson, N. Y.
Filed March 10, 1923. Serial No. 177,227. PUBLISHED SEPTEMBER 4, 1923.

176,705. CANNED SARDINES. AUSTIN, NICHOLS & CO., INC., Brooklyn, N. Y.
Filed March 29, 1923. Serial No. 178,206. PUBLISHED SEPTEMBER 11, 1923.

176,706. COCOA AND CHOCOLATE. THE CHARLES H. PHILLIPS CHEMICAL CO., Glenbrook, Conn., and New York, N. Y.
Filed April 2, 1923. Serial No. 178,464. PUBLISHED SEPTEMBER 11, 1923.

176,707. CANDY. GEIGER CANDY COMPANY, Indianapolis, Ind.
Filed July 11, 1923. Serial No. 183,060. PUBLISHED SEPTEMBER 18, 1923.

176,708. CANDY. GEIGER CANDY COMPANY, Indianapolis, Ind.
Filed July 11, 1923. Serial No. 183,061. PUBLISHED SEPTEMBER 18, 1923.

176,709. PIPE COVERING. JOHNS-MANVILLE, INCORPORATED, New York, N. Y.
Filed July 13, 1923. Serial No. 183,155. PUBLISHED SEPTEMBER 18, 1923.

176,710. MAGAZINE ISSUED MONTHLY. COMMERCIAL TRUCK COMPANY, Philadelphia, Pa.
Filed July 14, 1923. Serial No. 183,196. PUBLISHED SEPTEMBER 11, 1923.

176,711. FRUIT PECTIN. HOOD RIVER APPLE VINEGAR CO., Hood River, Oreg.
Filed July 14, 1923. Serial No. 183,213. PUBLISHED SEPTEMBER 18, 1923.

176,712. CANNED FRUITS, CANNED VEGETABLES, AND CANNED FISH. KOCKOS BROS., INC., San Francisco, Calif.
Filed July 14, 1923. Serial No. 183,216. PUBLISHED SEPTEMBER 18, 1923.

176,713. CANNED FRUITS, CANNED VEGETABLES, AND CANNED FISH. KOCKOS BROS., INC., San Francisco, Calif.
Filed July 14, 1923. Serial No. 183,217. PUBLISHED SEPTEMBER 18, 1923.

176,714. PERIODICALS PUBLISHED EITHER BIMONTHLY OR QUARTERLY. HENRY KNIGHT MILLER, doing business as Psychology Publishing Company, New York, N. Y.
Filed July 14, 1923. Serial No. 183,220. PUBLISHED SEPTEMBER 11, 1923.

176,715. CANNED SHRIMP. DORGAN-MCPHILLIPS SALES CO. INC., Mobile, Ala.
Filed July 16, 1923. Serial No. 183,258. PUBLISHED SEPTEMBER 18, 1923.

176,716. MARSHMALLOW CANDIES. WM. H. LUDEN INC., Reading, Pa.
Filed July 16, 1923. Serial No. 183,308. PUBLISHED SEPTEMBER 18, 1923.

176,717. CANDY. CHARLES J. ROSSO, Duluth, Minn.
Filed July 16, 1923. Serial No. 183,317. PUBLISHED SEPTEMBER 18, 1923.

176,718. CANNED FRUITS AND VEGETABLES. FRAZAR & COMPANY, San Francisco, Calif.
Filed July 18, 1923. Serial No. 183,371. PUBLISHED SEPTEMBER 18, 1923.

176,719. SELF-RISING FLOUR. SPRAGUE ROLLER MILLS, Sprague, Wash.
Filed October 14, 1922. Serial No. 170,734. PUBLISHED JULY 24, 1923.

176,720. LEATHER BELTING. JOHN ORMEROD & SONS LTD., Castleton, England.
Filed October 17, 1922. Serial No. 170,832. PUBLISHED SEPTEMBER 11, 1923.

176,721. HIGH-TEMPERATURE CEMENTS. SMITH-BEAL FIRE BRICK CO., Minneapolis, Minn.
Filed October 18, 1922. Serial No. 170,904. PUBLISHD APRIL 24, 1923.

176,722. FOODS AND RELISHES. HULMAN & CO., Terre Haute, Ind.
Filed October 17, 1922. Serial No. 170,919. PUBLISHED AUGUST 7, 1923.

176,723. FRESH APPLES. GROWERS SERVICE CO., Yucaipa, Calif.
Filed November 11, 1922. Serial No. 171,840. PUBLISHED SEPTEMBER 11, 1923.

176,724. CHEESE. PHENIX CHEESE CO., New York, N. Y.
Filed November 22, 1922. Serial No. 172,392. PUBLISHED JULY 24, 1923.

176,725. CERTAIN NAMED FOODS AND INGREDIENTS. PARK & TILFORD, New York, N. Y.
Filed November 25, 1922. Serial No. 172,553. PUBLISHED JULY 31, 1923.

176,726. CEREAL BREAKFAST FOODS. KELLOGG TOASTED CORN FLAKE CO., Battle Creek, Mich.
Filed December 4, 1922. Serial No. 172,884. PUBLISHED JULY 24, 1923.

176,727. SALAD AND COOKING OILS, MACAROON PASTE, AND DEAMYGDALINIZED KERNELS OF FRUIT PITS, CRYSTALLIZED FRUIT CANDIES, MELONS, FRESH VEGETABLES, DEHYDRATED VEGETABLES. CALIFORNIA PRUNE & APRICOT GROWERS, INC., San Jose, Calif., assignor to California Prune & Apricot Growers Association, San Jose, Calif., a Corporation of California.
Filed December 5, 1922. Serial No. 172,932. PUBLISHED AUGUST 21, 1923.

176,728. PRINTED PUBLICATION ISSUED MONTHLY. CHARLESTON ELECTRICAL SUPPLY CO., Charleston, W. Va.
Filed December 13, 1922. Serial No. 173,277. PUBLISHED SEPTEMBER 11, 1923.

176,729. FLOUR MADE FROM WHEAT. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn.
Filed December 15, 1922. Serial No. 173,377. PUBLISHED AUGUST 7, 1923.

176,730. PAPER AND STATIONERY. LEVEY PRINTING COMPANY, Indianapolis, Ind.
Filed December 18, 1922. Serial No. 173,508. PUBLISHED SEPTEMBER 11, 1923.

176,731. DAIRY PRODUCTS—NAMELY, BUTTER, CHEESE. COWICHE CREAMERY, Cowiche, Wash.
Filed December 19, 1922. Serial No. 173,565. PUBLISHED JULY 31, 1923.

176,732. CITROUS FRUITS, SUCH AS ORANGES, LEMONS, AND GRAPEFRUIT, IN THEIR NATURAL STATE. CALIFORNIA FRUIT GROWERS EXCHANGE, Los Angeles, Calif.
Filed December 21, 1922. Serial No. 173,621. PUBLISHED SEPTEMBER 4, 1923.

176,733. RELISHES AND CONDIMENTS IN THE FORM OF DRESSINGS AND SAUCES, SANDWICHES, WELSH RABBIT, CANNED BEANS, MACARONI, HASH, AND SOUPS. WALTER B. CROSS, Denver, Colo.
Filed December 26, 1922. Serial No. 173,814. PUBLISHED AUGUST 7, 1923.

176,734. HARD-WHEAT FLOUR. WELLS-ABBOTT-NIEMAN CO., INC., Schuyler, Nebr.
Filed December 28, 1922. Serial No. 173,946. PUBLISHED JULY 24, 1923.

176,735. WHEAT FLOUR. MINNEAPOLIS MILLING CO., Minneapolis, Minn.
Filed December 29, 1922. Serial No. 173,974. PUBLISHED AUGUST 7, 1923.

176,736. STOCK FEEDS. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed December 29, 1922. Serial No. 173,982. PUBLISHED JULY 24, 1923.

176,737. WHEAT FLOUR AND STOCK FEEDS. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed January 2, 1923. Serial No. 174,102. PUBLISHED JULY 31, 1923.

176,738. CERTAIN NAMED FOODS AND INGREDIENTS. THE ASIA COMPANY, Los Angeles, Calif.
Filed January 4, 1923. Serial No. 174,163. PUBLISHED JULY 24, 1923.

176,739. TRANSPARENT FOOD COVERS. FIBER-GLASS FOOD COVER COMPANY, Chicago, Ill.
Filed February 26, 1923. Serial No. 176,612. PUBLISHED SEPTEMBER 11, 1923.

176,740. CHOWDER MADE FROM COMBINATION OF VARIOUS MEATS AND VEGETABLES. C. W. McMORRAN, San Francisco, Calif.
Filed February 23, 1923. Serial No. 176,491. PUBLISHED SEPTEMBER 11, 1923.

176,741. WHEAT FLOUR. GEORGE URBAN MILLING COMPANY, Buffalo, N. Y.
Filed February 19, 1923. Serial No. 176,299. PUBLISHED AUGUST 14, 1923.

176,742. CERTAIN NAMED FOODS. WESTERN GROCER COMPANY, Marshalltown, Iowa.
Filed February 17, 1923. Serial No. 176,235. PUBLISHED AUGUST 14, 1923.

176,743. WHEAT FLOUR. M. D. KING MILLING COMPANY, Pittsfield, Ill.
Filed February 17, 1923. Serial No. 176,193. PUBLISHED AUGUST 14, 1923.

176,744. WHEAT FLOUR. M. D. KING MILLING COMPANY, Pittsfield, Ill.
Filed February 17, 1923. Serial No. 176,192. PUBLISHED AUGUST 14, 1923.

176,745. TANKAGE. THE E. KAHN'S SONS COMPANY, Cincinnati, Ohio.
Filed February 17, 1923. Serial No. 176,191. PUBLISHED AUGUST 14, 1923.

176,746. LIVE POULTRY AND EGGS. ESTATE OF CHARLES J. FISK, DECEASED; Harvey Fisk and Lewis E. Waring, executors, Trenton Junction, N. J.
Filed February 14, 1923. Serial No. 176,020. PUBLISHED AUGUST 14, 1923.

176,747. COMMON PINS AND HAND SEWING NEEDLES. THE WILLIAM PRYM COMPANY, LIMITED, Stolberg, Germany.
Filed February 13, 1923. Serial No. 175,996. PUBLISHED SEPTEMBER 11, 1923.

176,748. WHEAT FLOUR. MODEL MILL COMPANY, Jackson, Tenn.
Filed February 9, 1923. Serial No. 175,802. PUBLISHED AUGUST 7, 1923.

176,749. CHEESE, CANNED, FRESH AND EVAPORATED MILK, AND CANNED, FRESH, AND EVAPORATED CREAM. LILY BROOK FARMS, INC., Buffalo, N. Y.
Filed February 9, 1923. Serial No. 175,800. PUBLISHED AUGUST 7, 1923.

176,750. CERTAIN NAMED FOODS. FISCHER BROTHERS COMPANY, Seattle, Wash.
Filed February 9, 1923. Serial No. 175,782. PUBLISHED AUGUST 14, 1923.

176,751. CEREAL BISCUIT. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich.
Filed February 8, 1923. Serial No. 175,700. PUBLISHED AUGUST 7, 1923.

176,752. FEED—NAMELY, BRAN. WARNER, MOORE & CO., doing business as Dunlop Mills, Richmond, Va.
Filed February 5, 1923. Serial No. 175,582. PUBLISHED AUGUST 7, 1923.

176,753. CERTAIN NAMED CLEANING AND POLISHING PREPARATIONS. MACLEAN DRUG COMPANY, Chicago, Ill.
Filed February 3, 1923. Serial No. 175,504. PUBLISHED SEPTEMBER 11, 1923.

176,754. HORSE, POULTRY, HOG, AND DAIRY FEEDS. G. FRED. OBRECHT, doing business as P. Fred'k Obrecht & Son, Baltimore, Md.
Filed February 1, 1923. Serial No. 175,405. PUBLISHED AUGUST 7, 1923.

176,755. BREAKFAST CEREALS. THE COLTON BROTHERS COMPANY, Bellefontaine, Ohio.
Filed February 1, 1923. Serial No. 175,386. PUBLISHED AUGUST 7, 1923.

176,756. BREAD. NAFZIGER BAKING COMPANY, Kansas City, Mo.
Filed January 29, 1923. Serial No. 175,262. PUBLISHED JULY 31, 1923.

176,757. CITROUS FRUITS, FRESH AND CANNED, AND NUTS, SHELLED AND UNSHELLED. ROYAL C. VILAS, Fowl River, Ala.
Filed January 27, 1923. Serial No. 175,227. PUBLISHED JULY 31, 1923.

176,758. CERTAIN NAMED FOOD PRODUCTS. G. E. BURSLEY & COMPANY, Fort Wayne, Ind.
Filed January 27, 1923. Serial No. 175,183. PUBLISHED JULY 31, 1923.

176,759. COATING MATERIAL HAVING PARAFFIN AS ITS BASE. BROGDEX COMPANY, Winter Haven, Fla.
Filed February 8, 1923. Serial No. 175,708. PUBLISHED SEPTEMBER 11, 1923.

176,760. SWEATERS. NEUMAN & SILVER, doing business as Lion Knitting Mills, Philadelphia, Pa.
Filed February 3, 1923. Serial No. 175,511. PUBLISHED AUGUST 21, 1923.

176,761. MEN'S TEXTILE-FABRIC UNION-SUIT UNDERWEAR. CYRUS M. WALKER, Kansas City, Mo.
Filed February 2, 1923. Serial No. 175,446. PUBLISHED SEPTEMBER 11, 1923.

176,762. FLUID-PRESSURE REGULATING AND CONTROLLING INSTRUMENTS. THE HONEYWELL HEATING SPECIALTIES COMPANY, Wabash, Ind.
Filed February 1, 1923. Serial No. 175,396. PUBLISHED SEPTEMBER 18, 1923.

176,763. CORN MEAL, CORN GRITS, HORSE FEED, COW FEED, HEN FEED, LAYING MASH, GROWING MASH. WESTERN GRAIN COMPANY, Birmingham, Ala.
Filed January 25, 1923. Serial No. 175,117. PUBLISHED AUGUST 21, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

176,764. (CLASS 27. HOROLOGICAL INSTRUMENTS.) PHINNEY-WALKER COMPANY, New York, N. Y. Filed Sept. 10, 1923. Serial No. 185,617.

NEW YORKER

Particular description of goods.—Clocks.
Claims use since Jan. 1, 1922.

176,765. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) YELLOW CAB MANUFACTURING CO., Chicago, Ill. Filed Sept. 4, 1923. Serial No. 185,327.

Yellow Taxi

Particular description of goods.—Motor-Driven Vehicles—Namely, Automobile Taxicabs.
Claims use since July, 1919.

176,766. (CLASS 27. HOROLOGICAL INSTRUMENTS.) PHINNEY-WALKER COMPANY, New York, N. Y. Filed Sept. 10, 1923. Serial No. 185,615.

DENVER

Particular description of goods.—Clocks.
Claims use since Jan. 1, 1922.

176,767. (CLASS 27. HOROLOGICAL INSTRUMENTS.) PHINNEY-WALKER COMPANY, New York, N. Y. Filed Sept. 10, 1923. Serial No. 185,616.

DETROIT

Particular description of goods.—Clocks.
Claims use since Jan. 1, 1922.

176,768. (CLASS 15. OILS AND GREASES.) ASSOCIATED OIL COMPANY, San Francisco, Calif. Filed Aug. 14, 1923. Serial No. 184,433.



Particular description of goods.—Kerosene.
Claims use since 1913.

176,769. (CLASS 37. PAPER AND STATIONERY.) THE DIEM & WING PAPER CO., Cincinnati, Ohio. Filed Aug. 18, 1923. Serial No. 184,656.

DRESDEN LEDGER

Particular description of goods.—Ledger Paper.
Claims use since January, 1912.

176,770. (CLASS 37. PAPER AND STATIONERY.) THE DIEM & WING PAPER CO., Cincinnati, Ohio. Filed Aug. 18, 1923. Serial No. 184,657.

SHEFFIELD LEDGER

Particular description of goods.—Ledger Paper.
Claims use since January, 1914.

176,771. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OSCAR E. OLSON, doing business as Olson Manufacturing Co., Cleveland, Ohio. Filed July 2, 1923. Serial No. 182,717.

OLSON'S
ELIXIR GRIPPO

Particular description of goods.—A Tonic for Run-Down Conditions of the System.
Claims use since on or about June 12, 1917.

176,772. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WHITTEMORE BROTHERS CORPORATON, Cambridge, Mass. Filed Aug. 9, 1923. Serial No. 184,275.

SHUCLEAN

Particular description of goods.—Dressing for Cleaning and Whitening White Kid, Calf, Buck, Nubuck, Suede, and Ooze and all Kinds of White Leather, Glazed or Unglazed, and Articles Made Therefrom.
Claims use since February, 1910.

176,773. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) EDWIN C. LAIRD, doing business as The Safety Holder Co., Richmond, Va. Filed Aug. 11, 1923. Serial No. 184,341.

SAFETY

Particular description of goods.—Bedcover Holders.
Claims use since Sept. 24, 1921.

176,774. (CLASS 32. FURNITURE AND UPHOLSTERY.) WHELAN-LINCK CO., Duluth, Minn. Filed Nov. 27, 1922. Serial No. 172,627.

Satisfaction—You Be the Judge

Particular description of goods.—Desks, Filing Cabinets, Davenports; Arm, Bedroom, Camp, Children's, Desk, Dining-Room, Dressing-Table, Folding, High, Kitchen, Lawn, Library, Living-Room, Nursery, Office, Parlor, and Porch Chairs; Fiber and Reed Ferneries, Settees; Breakfast, Camp, Card, Davenport, Dining-Room, Dressing, Folding, Kitchen, Library, Living-Room, Parlor, Porch, Serving, Sewing, and Davenport End Tables; Rockers, Couches; Bathroom, Hall, Hand, and Shaving Mirrors; Cedar Chests, Sewing Cabinets, Day Beds, Twin Beds, Double and Single Beds, Bookcases, Tea Service Wagons, Pedestals, Costumers, China Cabinets, Buffets, Kitchen Cabinets, Dressers, Chiffoniers, Wardrobes, Chifforobes, Dressing-Table Benches, Bed Springs, Mattresses, Pillows, Cribs, Cradles, Window Shades.
Claims use since Oct. 15, 1922.

176,775. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE EATON AXLE & SPRING COMPANY, Cleveland, Ohio. Filed Sept. 20, 1923. Serial No. 185,963.

COX
BUMPERS

Particular description of goods.—Automobile Bumpers and Bumper Fittings.
Claims use since 1909.

176,776. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) O. W. WUERTZ CO., New York, N. Y. Filed June 29, 1923. Serial No. 182,637.

O.W.WUERTZ CO.

Particular description of goods.—Grand and Upright Pianos, Player-Pianos, and Electrically-Operated Pianos.
Claims use since about July 1, 1921.

176,777. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) L. BAMBERGER & CO., Newark, N. J. Filed June 14, 1923. Serial No. 181,972.

PENNINGTON

Particular description of goods.—Talking Machines and Pianos.
Claims use since Apr. 16, 1922.

176,778. (CLASS 37. PAPER AND STATIONERY.) LOUISVILLE PAPER CO., Louisville, Ky. Filed June 12, 1923. Serial No. 181,903.

DUNKIRK
LINEN
LEDGER

Particular description of goods.—Linen Ledger Paper
Claims use since 1903.

176,779. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CLARENCE G. HODAPP, doing business as Minute Kleen Laboratories, Detroit, Mich. Filed May 9, 1923. Serial No. 180,373.

MINUTE KLEEN

Particular description of goods.—Preparations for Polishing Autos, Furniture, Victrolas, Pianos, and Glass.
Claims use since Jan. 5, 1920.

176,780. (CLASS 15. OILS AND GREASES.) PURE OIL COMPANY, Columbus, Ohio, and Minneapolis, Minn. Filed Mar. 27, 1923. Serial No. 178,132.

VERIBEST

Particular description of goods.—Axle Grease.
Claims use since May, 1910.

176,781. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) J BYRNE CURRY, doing business as Curry & Coutellier, Los Angeles, Calif. Filed Mar. 29, 1923. Serial No. 178,226.

(CURRY & COUTELLIER)

Radio Argentite

Particular description of goods.—Radio-Detector Crystalline Compound for Radio Reception.
Claims use since July 1, 1922.

176,782. (CLASS 15. OILS AND GREASES.) HERCULES POWDER COMPANY, Wilmington, Del. Filed Mar. 2, 1923. Serial No. 176,829.

CENTURY

Particular description of goods.—Compounded Oil for Flotation Purposes Consisting of Pine Oil, Rosin Oil, Turpentine, and Petroleum.
Claims use since Apr. 4, 1922.

176,783. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE NORRIS, ALISTER-BALL COMPANY, Chicago, Ill. Filed Mar. 16, 1923. Serial No. 177,570.

Garland

Particular description of goods.—Watches, Watch Movements, and Parts of Watches.
Claims use since June 30, 1922.

176,784. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) INDIANA TRUCK CORPORATION, Marion, Ind. Filed Mar. 19, 1923. Serial No. 177,670.

HIGHWAY
EXPRESS

Particular description of goods.—Motor Vehicles, and Particularly Motor Trucks.
Claims use since Aug. 3, 1922.

176,785. (CLASS 15. OILS AND GREASES.) PURE OIL COMPANY, Columbus, Ohio, and Minneapolis, Minn. Filed Mar. 27, 1923. Serial No. 178,118.

GIRARD

Particular description of goods.—Farm-Machinery Lubricating Oil.
Claims use since May, 1910.

176,786. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) L. HELLER & SON, INC., New York, N. Y. Filed Dec. 18, 1922. Serial No. 173,494.

Heller & Son

Particular description of goods.—Pearls and Reproductions of Pearls or Imitations Thereof.
Claims use since Sept. 9, 1922.

176,787. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) CHARLES E. WILLIAMS, Akron, Ohio. Filed Dec. 30, 1922. Serial No. 174,051.

"RUB-LESS"

Particular description of goods.—Washboards.
Claims use since Sept. 1, 1922.

176,788. (CLASS 45. BEVERAGES, NONALCOHOLIC.) BERRY J. RUSSELL, doing business as Kold'nklear Spring Water Co., Cleveland, Ohio. Filed Sept. 29, 1922. Serial No. 170,090.

KOLD'NKLEAR

Particular description of goods.—Spring Drinking Water.
Claims use since Sept. 1, 1922.

176,789. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DENNEY & DENNEY, Philadelphia, Pa. Filed Oct. 18, 1922. Serial No. 170,871.

Denneys
White
Mud Pack

Particular description of goods.—Chemical Preparation for Application Upon the Face and Designed to Remove Wrinkles and Increase the Blood Circulation.
Claims use since Aug. 31, 1922.

176,790. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN P. ISTERLING, doing business as The Isterling Chemical Company, New Salisbury, Ind. Filed Oct. 30, 1922. Serial No. 171,367.

ISTERLING'S NO-KINK

Particular description of goods.—A Preparation for the Treatment of Dandruff, Falling Hair, Local Eczema Affections, and Irritations of All Kinds, for Treatment of the Scalp and Stimulating Growth of Hair, and for Straightening Hair.
Claims use since Jan. 1, 1922.

176,791. (CLASS 37. PAPER AND STATIONERY.) EVERETT AUSTIN LUNO, Independence, Mo. Filed Dec. 5, 1922. Serial No. 172,949.

Everlast

Particular description of goods.—Writing Pads.
Claims use since Oct. 9, 1922.

176,792. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHIL L. MABREY, Columbus, Ohio. Filed Apr. 12, 1921. Serial No. 146,080.

OXALATE-A

Particular description of goods.—Steam-Laundry Scouring Compound.
Claims use since Jan. 1, 1921.

176,793. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BUG DUST SHOVEL CO., Pennington Gap, Va. Filed Feb. 28, 1922. Serial No. 159,918.

BUG DUST

Particular description of goods.—Dust Shovels.
Claims use since Dec. 17, 1921.

176,794. (CLASS 32. FURNITURE AND UPHOLSTERY.) NEWARK TORTOISE SHELL NOVELTY CO., Newark, N. J. Filed July 12, 1922. Serial No. 166,784.

DUO-TONE

Particular description of goods.—Hand Mirrors and Picture Frames.
Claims use since Nov. 12, 1920.

176,795. (CLASS 37. PAPER AND STATIONERY.) DAVID M. KUMPF, Pekin, Ill. Filed Aug. 18, 1922. Serial No. 168,424.

Kumpf's
Self light Writing Pad

Particular description of goods.—Writing Pads.
Claims use since Apr. 1, 1922.

176,796. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THOMAS J. WEBB COMPANY, Chicago, Ill. Filed June 20, 1923. Serial No. 182,277.

Webb's

Particular description of goods.—Spices.
Claims use since January, 1918.

176,797. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UTAH-IDAHO SUGAR COMPANY, Salt Lake City, Utah. Filed May 14, 1923. Serial No. 180,634.

TABLE & PRESERVING
EXTRA FINE
SUGAR
100 LBS. NET
GRANULATED

Particular description of goods.—Sugar.
Claims use since Oct. 1, 1919.

176,798. (CLASS 39. CLOTHING.) LORRAINE MANUFACTURING COMPANY, Pawtucket, R. I. Filed Apr. 7, 1923. Serial No. 178,750.

Lorraine
Covertwill

Particular description of goods.—Men's and Women's Raincoats and Ladies' Skirts, Dresses, Suits, and Coats.
Claims use since Sept. 1, 1922.

176,799. (CLASS 39. CLOTHING.) LORRAINE MANUFACTURING COMPANY, Pawtucket, R. I. Filed Apr. 7, 1923. Serial No. 178,751.

Lorraine
DISETA

Particular description of goods.—Men's Suits, Dusters, Coats, and Caps and Ladies' Suits, Coats, Wraps, Skirts, and Dusters.
Claims use since Oct. 9, 1912.

176,800. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE FERDINAND STRAUSS CORPORATION, New York, N. Y. Filed May 5, 1923. Serial No. 180,250.

STRAUSS MECHANICAL TOYS
"Known the World over"

Particular description of goods.—Mechanical Toys.
Claims use since June, 1921.

176,801. (CLASS 39. CLOTHING.) LEVY-SHULMAN & CO. INC., New York, N. Y. Filed Dec. 26, 1922. Serial No. 173,847.

THE STANDARD OF COMPARISON

Particular description of goods.—Dresses.
Claims use since Oct. 11, 1922.

176,802. (CLASS 45. BEVERAGES, NONALCOHOLIC.) CHERRY BLOSSOM MFG. CO., St. Louis, Mo. Filed Feb. 27, 1923. Serial No. 176,967.

A Blooming Cherry Blossoms Good Drink

Particular description of goods.—Nonalcoholic, noncereal, maltless beverages sold as soft drinks and sirups for making same.
Claims use since March, 1916.

176,803. (CLASS 17. TOBACCO PRODUCTS.) SIG. C. MAYER & COMPANY, INC., Philadelphia, Pa. Filed Mar. 13, 1923. Serial No. 177,397.

STETSON

Particular description of goods.—Cigars.
Claims use since December, 1908.

176,804. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WYNNE LARD & PROVISION CO. INC., Norfolk, Va. Filed Oct. 7, 1922. Serial No. 170,464.

ALBEMARLE BRAND

Particular description of goods.—Lard Substitute.
Claims use since Mar. 15, 1921.

176,805. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COMMERCIAL CHEMICAL CO., Memphis, Tenn. Filed Oct. 21, 1922. Serial No. 171,011.

SHYN-STAIN

Particular description of goods.—Liquid Polish and Dye for Shoes and Other Leather and Fabric Articles.
Claims use since Oct. 1, 1922.

176,806. (CLASS 45. BEVERAGES, NONALCOHOLIC.) DE LUE COMPANY, Chicago, Ill. Filed Dec. 4, 1922. Serial No. 172,865.

VEGETABLE BENEDICTINE LIQUEUR

Particular description of goods.—A Nonalcoholic, Maltless Beverage Sold for Soft-Drink Purposes.
Claims use since Sept. 10, 1922.

176,807. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WYNNE LARD & PROVISION CO. INC., Norfolk, Va. Filed Oct. 7, 1922. Serial No. 170,458.

PURE GOLD BRAND

Particular description of goods.—Lard Substitute.
Claims use since Nov. 17, 1921.

176,808. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRY LUSTINE, Washington, D. C. Filed Apr. 11, 1922. Serial No. 162,122.

RITZ

Particular description of goods.—Coffee.
Claims use since Mar. 30, 1922.

176,809. (CLASS 39. CLOTHING.) F. A. PATRICK & Co., Duluth, Minn. Filed June 16, 1922. Serial No. 165,596.



Particular description of goods.—Hose Supporters, Suspenders, Garters, Arm Bands, Half Sleeves, Cloth Gloves, Mackinaw Coats, Woolen Knit Hosiery and Cotton Knit Waists; Worsted Knit Bathing Suits, Sweaters, Golf Coats, and Ladies' Union Suits; Mixed Cotton and Woolen Woven Blanket Underwear for Men, Women, and Children; Mixed Cotton and Woolen Breeches, Norfolk Coats, Jackets, Lined Overalls, Moleskin Vests, and Miners' Underwear; Leather-Lined and Sheepskin-Lined Coats and Vests of Combined Cotton Cloth and Leather, Men's Woolen Pantaloons and Outer Shirts, Cotton Combination Overall Suits; Men's, Boys', Youths', and Cadets' Cotton Overalls; Men's, Boys', and Youths' Cotton Overall Jackets; Men's Woolen Stag Pantaloons and Stag Outer Shirts; Men's Flannel Outer Shirts, Undershirts, and Shirts Worn Under the Outer Shirt and Over the Undershirt; Men's Woolen Collar-Attached Outer Shirts, Men's Cotton-Band Outer Shirts; Cotton Gowns, Pyjamas, and Bath Robes; Rubberized Cotton-Cloth Raincoats; and Men's, Women's, Youths', Misses', and Children's Knitted and Woven Underwear of Either Wool, Cotton, or Silk.
Claims use since Oct. 1, 1921.

176,810. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MRS. SNYDER'S WHIPPED CREAM CHOCOLATES, INC., Chicago, Ill. Filed Aug. 29, 1922. Serial No. 168,858.



Particular description of goods.—Candy.
Claims use since Aug. 24, 1917.

176,811. (CLASS 39. CLOTHING.) MAURICE ROBINSON, Baltimore, Md. Filed Aug. 31, 1922. Serial No. 168,941.



Particular description of goods.—Coats, Vests, Pants, and Overcoats.
Claims use since Dec. 1, 1908.

176,812. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) GEO. RINGLER & CO., New York, N. Y. Filed Jan. 13, 1921. Serial No. 142,231.

Sparkling Pale

Particular description of goods.—A Malt Beverage.
Claims use since Nov. 22, 1920.

176,813. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE PERKINS-CAMPBELL COMPANY, Cincinnati, Ohio. Filed Feb. 28, 1921. Serial No. 144,146.

Campbell

Particular description of goods.—Automobile and Vehicle Coverings Made of Fabric and Leather for Seats, Tops, Hoods, and Radiators, Not Sold in the Piece.
Claims use since the first part of November, 1906.

176,814. (CLASS 2. RECEPTACLES.) EDWARD C. WALKER, 3D, Batavia, N. Y. Filed Feb. 21, 1922. Serial No. 159,674.

KANT - RUST - KAN

Particular description of goods.—Garbage Cans.
Claims use since Dec. 31, 1921.

176,815. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) RIEBE BALL BEARING COMPANY INC., New York, N. Y. Filed Sept. 19, 1923. Serial No. 185,918.

RIEBE

Particular description of goods.—Ball Bearings.
Claims use since 1913.

176,816. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE R. F. JOHNSTON PAINT CO., Cincinnati, Ohio. Filed Oct. 6, 1923. Serial No. 186,645.

DULL KOTE

Particular description of goods.—Oil Paints.
Claims use since November, 1907.

176,817. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WHITTEMORE BROTHERS CORPORATION, Cambridge, Mass. Filed Aug. 9, 1923. Serial No. 184,272.

Bostonian Cream

Particular description of goods.—Preparation for Polishing Kid and Calf Leathers.
Claims use since October, 1911.

176,818. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRY GRIFFIN MARSHALL, Newark, Ohio. Filed Aug. 22, 1923. Serial No. 184,867.

MARSHALL'S
SACCHARINE

Particular description of goods.—Saccharine.
Claims use since June, 1919.

176,819. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CAR-DUMPER & EQUIPMENT CO., Chicago, Ill. Filed July 27, 1923. Serial No. 183,730.

"Solid car"

Particular description of goods.—Self-Dumping Cages for Cars, Rotary Car Dumpers, Car Control Equipment, Trip Controls, and Mining Tipple Machinery.
Claims use since June 1, 1919.

176,820. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo. Filed Aug. 1, 1923. Serial No. 183,945.

BLACK DIAMOND

Particular description of goods.—Fishing Lines, Fishing Rods, and Fishing Reels.
Claims use since Dec. 22, 1915.

176,821. (CLASS 39. CLOTHING.) PENN TROUSER CO., Pittsburgh, Pa. Filed Aug. 9, 1923. Serial No. 184,259.

Everbest

Particular description of goods.—Trousers, Men's Work Pants, and Trousers for Outdoor and Indoor Sports.
Claims use since about Sept. 1, 1914.

176,822. (CLASS 39. CLOTHING.) WICHERT, INC., Brooklyn, N. Y. Filed July 13, 1923. Serial No. 183,182.

„Wichert"

Particular description of goods.—Leather and Canvas Shoes and Slippers.
Claims use since November, 1912.

176,823. (CLASS 39. CLOTHING.) WICHERT, INC., Brooklyn, N. Y. Filed July 13, 1923. Serial No. 183,183.

„Wichert Shoe"

Particular description of goods.—Leather and Canvas Shoes and Slippers.
Claims use since November, 1912.

176,824. (CLASS 32. FURNITURE AND UPHOLSTERY.) COPPES BROTHERS & ZOOK, Nappanee, Ind. Filed July 25, 1923. Serial No. 183,645.

· The World's Finest Kitchen Cabinet ·

Particular description of goods.—Kitchen Cabinets.
Claims use since 1916.

TRADE-MARK REGISTRATIONS RENEWED.

23,394. SOAP POWDER. Registered July 25, 1893. THE M. WERK COMPANY, Cincinnati, Ohio. Renewed July 25, 1923.

23,395. SOAP POWDER. Registered July 25, 1893. THE M. WERK COMPANY, Cincinnati, Ohio. Renewed July 25, 1923.

23,666. RUBBER-SOLED CANVAS SHOES. Registered October 3, 1893. NORTH BRITISH RUBBER COMPANY, LT'D, Edinburgh, Scotland, and London, England. Renewed October 3, 1923.

23,694. TEAS AND COFFEES. Registered October 10, 1894. WALRATH & CO. Renewed October 10, 1924, to Stella M. Walrath, Syracuse, N. Y., successor.

23,832. SHADES, GLOBES, AND OTHER GLASSWARE. Registered November 21, 1893. THE PHOENIX GLASS COMPANY, Monaca, Pa. Renewed November 21, 1923.

23,837. COFFEE AND TEA. Registered November 21, 1893. THOMAS JOHNSTONE LIPTON, London, England; Colombo, Ceylon, and Calcutta, India. Renewed November 21, 1923.

23,838. COFFEE AND TEA. Registered November 21, 1893. THOMAS JOHNSTONE LIPTON, London, England; Colombo, Ceylon, and Calcutta, India. Renewed November 21, 1923.

23,877. AN ANTICHOLERA AND TONIC REMEDY. Registered November 28, 1893. MARIA BRANCA SCALA. Renewed November 28, 1923, to Dolores Dolfin Branca, Bernardino Branca, and Carolina Dolfin Boldu-Branca, Milan, Italy, successors.

23,895. CASTOR OIL. Registered December 5, 1893. THE BAKER CASTOR OIL COMPANY, Jersey City, N. J., and New York, N. Y. Renewed December 5, 1923.

23,896. CASTOR OIL. Registered December 5, 1893. THE BAKER CASTOR OIL COMPANY, Jersey City, N. J., and New York, N. Y. Renewed December 5, 1923.

23,926. SEWING MACHINES AND ATTACHMENTS. Registered December 12, 1893. THE FIRM OF JOHN WANAMAKER. Renewed December 12, 1923, to John Wanamaker Philadelphia, Philadelphia, Pa., a Corporation of Pennsylvania, assignee.

23,936. WOOLEN DRESS GOODS. Registered December 19, 1893. BOTANY WORSTED MILLS, Passaic, N. J., and New York, N. Y. Renewed December 19, 1923.

23,968. LUBRICATING OIL. Registered January 2, 1894. GALENA OIL WORKS. Renewed January 2, 1924, to Galena-Signal Oil Company, Franklin, Pa., assignee.

24,045. OAK-TANNED HARNESS LEATHER. Registered January 16, 1894. J. G. HOFFMANN & SONS CO., Wheeling, W. Va. Renewed January 16, 1924.

24,049. A PREPARATION OF MAGNESIA. Registered January 16, 1894. THE CHARLES H. PHILLIPS CHEMICAL COMPANY, New York, N. Y. Renewed January 16, 1924.

24,057. LAGER BEER. Registered January 16, 1894. THE PETER HAND BREWERY CO. Renewed January 16, 1924, to The Peter Hand Company, Chicago, Ill., successors.

24,058. ROOT BEER. Registered January 16, 1894. THE CHARLES E. HIRES COMPANY, Philadelphia, Pa. Renewed January 16, 1924.

24,091. ALE, AERATED AND NONALCOHOLIC. Registered January 23, 1894. KOPS BREWERY. Renewed January 23, 1924, to R. White & Sons, Limited, London, England, assignee.

24,135. AERATED AND NONALCOHOLIC ALE. Registered January 30, 1894. BARCLAY & CO. Renewed January 30, 1924, to R. White & Sons, Limited, London, England, assignee.

24,182. OYSTERS. Registered February 6, 1894. HAAS BROTHERS, New York, N. Y., and San Francisco, Calif. Renewed February 6, 1924.

24,196. AXLE GREASE. Registered February 6, 1894. HISGEN BROS. Renewed February 6, 1924, to Sinclair Refining Company, Albany, N. Y., a Corporation of Maine, assignee.

24,208. DRESS SHIELDS. Registered February 13, 1894. THE CANFIELD RUBBER COMPANY, Bridgeport, Conn., and New York, N. Y. Renewed February 13, 1924.

24,264. SHOES FOR MEN AND BOYS. Registered February 20, 1894. JOHN P. TWADDELL. Renewed February 20, 1924, to John Wanamaker Philadelphia, Philadelphia, Pa., a Corporation of Pennsylvania, assignee.

24,320. REMEDIES FOR DISEASES OF THE STOMACH AND BOWELS. Registered March 6, 1894. SULTAN DRUG COMPANY, St. Louis, Mo. Renewed March 6, 1924.

24,338. BAKING POWDERS. Registered March 13, 1894. H. D. THATCHER & CO. Renewed March 13, 1924, to Thatcher Products Co. Inc., Potsdam, N. Y., assignee.

24,395. ESSENTIAL OILS AND CHEMICALS. Registered March 20, 1894. THE CHARLES H. PHILLIPS CHEMICAL COMPANY, New York, N. Y. Renewed March 20, 1924.

24,402. PRINTING INK. Registered March 20, 1894. THE QUEEN CITY PRINTING INK COMPANY, Cincinnati, Ohio. Renewed March 20, 1924.

24,411. BRAIDED COTTON WINDOW OR SASH CORD. Registered March 27, 1894. SAMSON CORDAGE WORKS, Boston, Mass. Renewed March 27, 1924.

24,507. CANDIES AND SWEETMEATS. Registered April 10, 1894. CALLARD & BOWSER. Renewed April 10, 1924, to Callard & Bowser, Ltd., London, England, assignee.

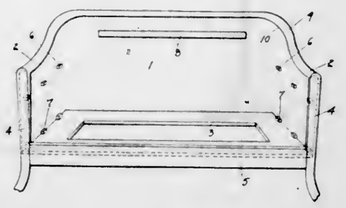
24,553. WHEAT FLOUR. Registered April 17, 1894. THOMPSON MILLING COMPANY, Lockport, N. Y. Renewed April 17, 1924.

24,555. LARD. Registered April 17, 1894. ANGLO-AMERICAN PROVISION COMPANY, Chicago, Ill. Renewed April 17, 1924.

REISSUES

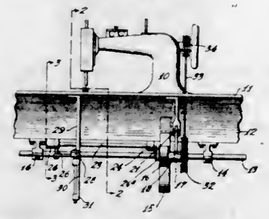
NOVEMBER 27, 1923.

15,725. VEHICLE BODY CONSTRUCTION AND UPHOLSTERY THEREFOR. SPIRO S. BONEL, Detroit, Mich., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 27, 1920. Serial No. 413,185. Original No. 1,303,535, dated May 13, 1919, Serial No. 244,896, filed July 15, 1918. 26 Claims. (Cl. 155—184.)



9. In vehicle body construction, in combination, a body member shaped to provide a seat portion having a depending flange along its upper edge, and upholstery units therefor comprising separate frame members each fitting a specific portion of the body member, one edge of each frame being adapted to engage behind the flange of the body, the upholstered end frames of the seat being engaged by the ends of the back frame for the seat, and means engaging the lower edges of the upholstered frames to hold the said frames in position.

15,726. FRICTION DRIVE FOR SEWING MACHINES. ALEXANDER B. COHN, New York, N. Y. Filed Sept. 9, 1921. Serial No. 499,566. Original No. 1,359,153, dated Nov. 16, 1920, Serial No. 165,947, filed May 2, 1917. 2 Claims. (Cl. 74—26.)



2. In a power driven sewing machine, the combination of a table, a sewing machine mounted thereon and provided with an operating shaft, a driver wheel below the table, a bearing connected with the table and mounted for swinging movement thereon toward and away from the driver wheel, rotatable means carried by the swinging bracket and adapted to be carried by the bracket into and out of engagement with the driver wheel, a driving connection between the rotatable means and the operating shaft of the machine, a member adapted to be moved by the knee of the operator, and a connection between the knee operated member and the swinging bearing, whereby said member may be actuated by the knee of the operator to bring the rotatable member into engagement with the driver wheel or permit the rotatable member to retract therefrom.

DESIGNS

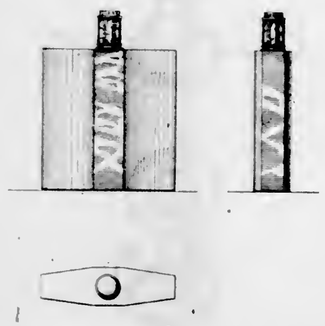
NOVEMBER 27, 1923.

63,351. BOTTLE. EDOUARD P. BENOIS, Paris, France, assignor to Coty, Inc., New York, N. Y., a Corporation of Delaware. Filed May 3, 1923. Serial No. 6,044. Term of patent 14 years.



The ornamental design for a bottle substantially as shown.

63,352. BOTTLE. EDOUARD P. BENOIS, Paris, France, assignor to Coty, Inc., New York, N. Y., a Corporation of Delaware. Filed May 3, 1923. Serial No. 6,045. Term of patent 14 years.



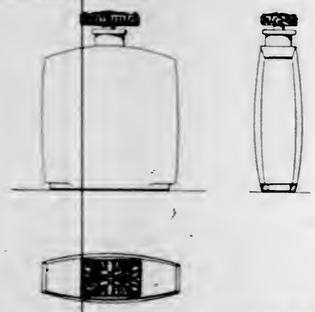
The ornamental design for a bottle substantially as shown.

63,353. PAPER. EDOUARD P. BENOIS, Paris, France, assignor to Coty, Inc., New York, N. Y., a Corporation of Delaware. Filed May 3, 1923. Serial No. 6,046. Term of patent 14 years.



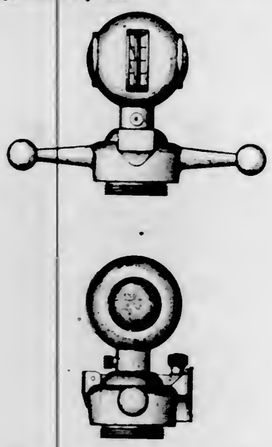
The ornamental design for paper as shown.

63,354. BOTTLE. EDOUARD P. BENOIS, Paris, France, assignor to Coty, Inc., New York, N. Y., a Corporation of Delaware. Filed May 3, 1923. Serial No. 6,047. Term of patent 14 years.



The ornamental design for a bottle substantially as shown.

63,355. AUTOMOBILE RADIATOR CAP. OTTO L. BIEHLMIRE, Baroda, Mich., assignor, by mesne assignments, to Gidelite Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 11, 1922. Serial No. 3,673. Term of patent 14 years.



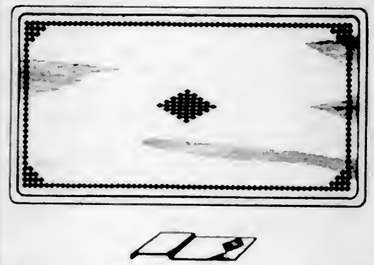
The ornamental design for an automobile radiator cap substantially as shown.

63,356. LIGHTING FIXTURE. MICHAEL B. BOWEN, Decatur, Ill., assignor to Faries Manufacturing Company, Decatur, Ill., a Corporation of Illinois. Filed Jan. 25, 1923. Serial No. 4,983. Term of patent 7 years.



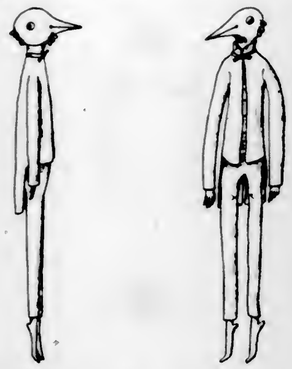
The ornamental design for a lighting fixture, as shown.

63,357. ENAMELED-METAL TABLE TOP. ALBERT E. CLARKE, Des Plaines, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 21, 1921. Serial No. 516,888. Term of patent 14 years.



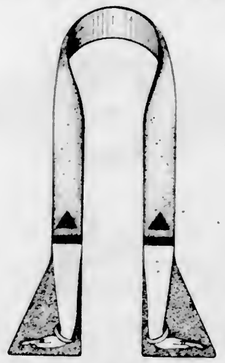
The ornamental design for an enameled metal table top, as shown.

63,358. DOLL. MARJORIE COLIGNY, New York, N. Y. Filed Feb. 28, 1923. Serial No. 5,314. Term of patent 14 years.



The ornamental design for a doll as shown.

63,359. SCARF, STOLE, OR MUFFLER. MATTHEW J. COSTELLO, New York, N. Y. Filed Apr. 4, 1923. Serial No. 5,694. Term of patent 7 years.



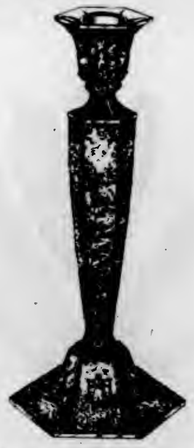
The ornamental design for a scarf, stole, or muffler, substantially as shown.

63,360. DOLL. CARMINE DAVILE, Jersey City, N. J. Filed Apr. 17, 1923. Serial No. 5,841. Term of patent 3½ years.



The ornamental design for a doll as shown.

63,361. CANDLESTICK. ALFRED J. FLAUDER, Bridgeport, Conn. Filed Feb. 2, 1923. Serial No. 5,059. Term of patent 7 years.



The ornamental design for a candlestick substantially as shown.

63,362. FOB ORNAMENT, LOCKET, OR SIMILAR ARTICLE. MARSHALL B. GARDNER, Aurora, Ill. Filed Mar. 14, 1923. Serial No. 5,474. Term of patent 14 years.



The ornamental design for a fob ornament, locket, or similar article, as shown.

63,363. EYEGLASSES. JOSEPH GASPARI, New York, N. Y. Filed June 18, 1923. Serial No. 6,530. Term of patent 7 years.



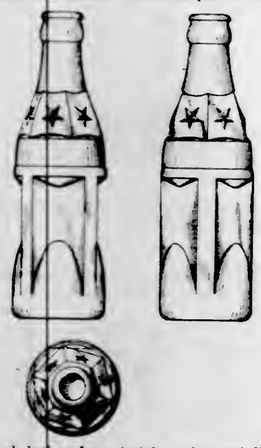
The ornamental design for eyeglasses, as shown.

63,364. STANDARD FOR LIGHTING FIXTURES. JOSEPH W. GOSLING, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 19, 1922. Serial No. 2,743. Term of patent 14 years.



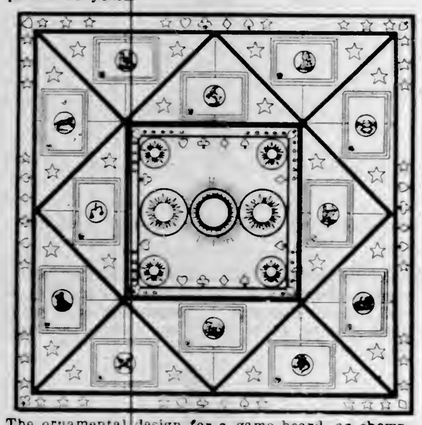
The ornamental design for a standard for lighting fixtures as shown.

63,365. BOTTLE. ROBERT C. GRAHAM, Washington, Ind., assignor to The Graham Glass Company, Evansville, Ind., a Corporation of Indiana. Filed May 28, 1923. Serial No. 6,298. Term of patent 3½ years.



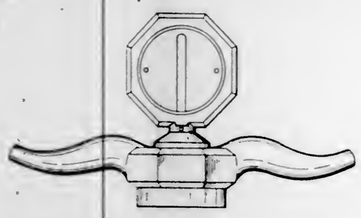
The original design for a bottle, substantially as shown.

63,366. GAME BOARD. JOHN W. HANLEY, New York, N. Y. Filed Mar. 28, 1923. Serial No. 5,620. Term of patent 14 years.



The ornamental design for a game board, as shown.

63,367. WATER GAUGE FOR AUTOMOBILE RADIATORS. WILLIAM B. JARVIS, Grand Rapids, Mich. Filed Dec. 30, 1922. Serial No. 4,767. Term of patent 3½ years.



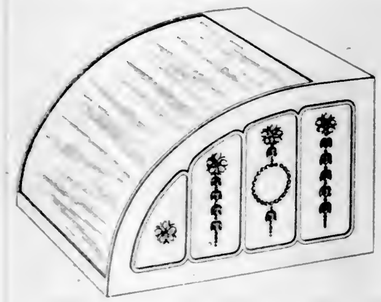
The ornamental design for a water gauge for automobile radiators, as shown.

63,368. CAP FOR COLLAPSIBLE TUBES. JAMES W. JOHNSON, New Brunswick, N. J. Filed Oct. 31, 1921. Serial No. 511,943. Term of patent 7 years.



The ornamental design for a cap for collapsible tubes, as shown.

63,369. DISPLAY CASE. MAX KATZMAN, Los Angeles, Calif. Filed Nov. 29, 1921. Serial No. 518,707. Term of patent 7 years.



The ornamental design for a display case, as shown.

63,370. CHIPPED-GLASS TABLE ORNAMENT. JOZEFA PECZUR, West Selkirk, Canada. Filed Dec. 12, 1922. Serial No. 4,582. Term of patent 7 years.



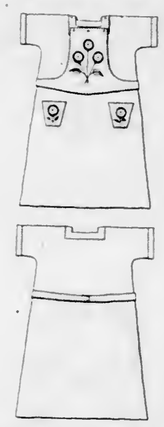
The ornamental design for a chipped glass table ornament, as shown.

63,371. CLASS RING. GEORGE A. MEELL, Philadelphia, Pa., assignor to The Bailey, Banks & Biddle Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 11, 1923. Serial No. 6,472. Term of patent 3½ years.



The ornamental design for a class ring, as shown.

63,372. DRESS. JULIUS MILLER and DAVID MACOWSKY, San Francisco, Calif. Filed Nov. 29, 1920. Serial No. 427,251. Term of patent 3½ years.



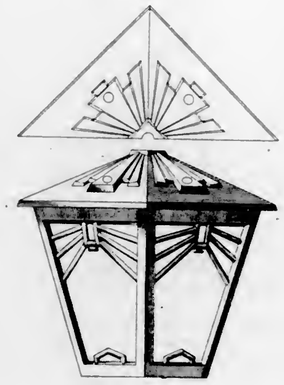
The ornamental design for a dress as shown.

63,373. GLASS BOTTLE. SAMUEL C. MILLER, Louisville, Ky., assignor to Mattingly & Moore Distillery Co., Louisville, Ky., a Corporation of Kentucky. Filed Oct. 2, 1922. Serial No. 3,860. Term of patent 14 years.



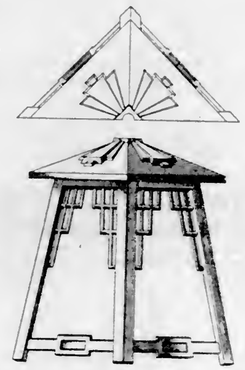
The ornamental design for a glass bottle as shown.

63,374. SHADE HOLDER FOR LIGHTING FIXTURE. PAUL MOHRMANN, Chicago, Ill., assignor to Friedley Voshardt Co., Chicago, Ill., a Corporation of Illinois. Filed Dec. 29, 1922. Serial No. 4,744. Term of patent 7 years.



The ornamental design for a shade holder for lighting fixture, as shown.

63,375. SHADE HOLDER FOR LIGHTING FIXTURE. PAUL MOHRMANN, Chicago, Ill., assignor to Friedley Voshardt Co., Chicago, Ill., a Corporation of Illinois. Filed Dec. 29, 1922. Serial No. 4,745. Term of patent 7 years.



The ornamental design for a shade holder for lighting fixture, as shown.

63,376. BUTTON. GEORGE E. RUTLEDGE, Chicago, Ill., assignor to Vassar Swiss Underwear Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 22, 1921. Serial No. 509,741. Term of patent 3½ years.



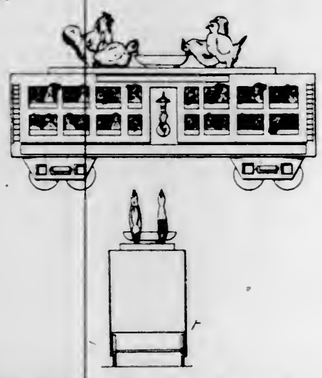
The ornamental design for a button, as shown.

63,377. HATPIN OR SIMILAR ARTICLE. ABRAHAM B. SCHAPIRO, New York, N. Y. Filed Apr. 12, 1923. Serial No. 5,800. Term of patent 3½ years.



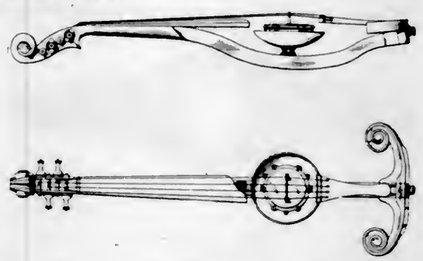
The ornamental design for a hatpin or similar article as shown and described.

63,378. TOY. FERDINAND STRAUSS, New York, N. Y. Filed Apr. 21, 1923. Serial No. 5,884. Term of patent 7 years.



The ornamental design for a toy, as shown.

63,379. VIOLIN. HENRY A. S. STAHL, Long Island City, N. Y. Filed Oct. 11, 1922. Serial No. 3,943. Term of patent 7 years.



The ornamental design for a violin as shown.

63,380. RING. FREDERICK L. STEEG, Chicago, Ill., assignor of one-half to John L. Burkey, Chicago, Ill. Filed Mar. 12, 1923. Serial No. 5,444. Term of patent 14 years.



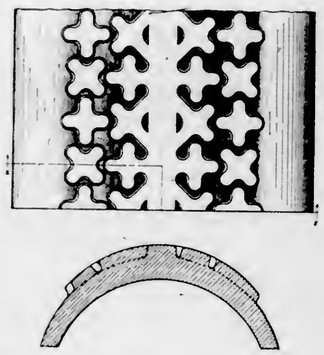
The ornamental design for a ring, as shown.

63,381. SIGN OR SIMILAR ARTICLE. FAY TURPIN, Chicago, Ill., assignor to Research Club, Inc., Chicago, Ill., a Corporation of Illinois. Filed Mar. 20, 1922. Serial No. 1,261. Term of patent 14 years.



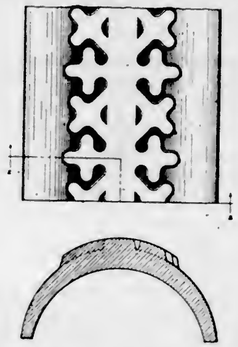
The ornamental design for a sign or similar article, substantially as shown.

63,382. TREAD FOR A VEHICLE TIRE. REGINALD H. WATERS, Cumberland, Md., assignor to Kelly-Springfield Tire Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 8, 1923. Serial No. 6,980. Term of patent 14 years.



The ornamental design for a tread for a vehicle tire, as shown.

63,383. TREAD FOR A VEHICLE TIRE. REGINALD H. WATERS, Cumberland, Md., assignor to Kelly-Springfield Tire Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 8, 1923. Serial No. 6,981. Term of patent 14 years.



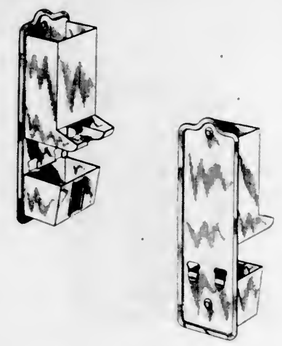
The ornamental design for a tread for a vehicle tire, as shown.

63,384. FINGER RING. FRANCIS H. WITTSTEIN, Newark, N. J. Filed July 3, 1923. Serial No. 6,662. Term of patent 3½ years.



The ornamental design for a finger ring, as shown.

63,385. MATCH SAFE. CHARLES ZECK, Detroit, Mich. Filed June 9, 1922. Serial No. 2,597. Term of patent 14 years.

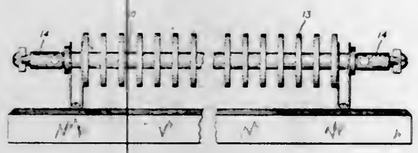


The ornamental design for a match safe as shown.

PATENTS

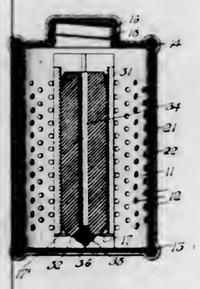
GRANTED NOVEMBER 27, 1923.

1,475,162. ELECTRIC HEATER. CHARLES C. ABBOTT, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Mar. 5, 1921. Serial No. 449,730. 5 Claims. (Cl. 219—34.)



1. An electric heater comprising a metallic tube having mounted thereon a plurality of heat radiating members spaced apart and compressed in heat conductive relation with the tube and a resistance conductor located centrally of the tube and separated therefrom by a thin layer of insulation so that the heat will be readily conducted to the tube and heat radiating members.

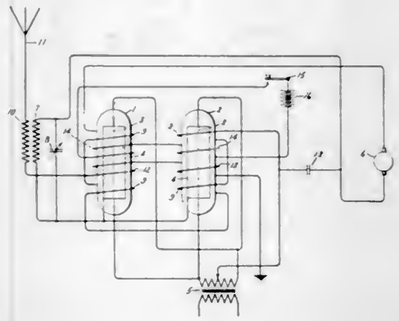
1,475,163. POCKET STOVE. HENRY W. ALLPORT, Chicago, Ill. Filed Apr. 7, 1919. Serial No. 288,190. 16 Claims. (Cl. 126—206.)



1. A slow combustion heater and a fuel therefor, said heater comprising a fuel holder for a solid fuel and having air passages directing and controlling combustion and a solid fuel including combustible matter and combustion controlling material co-operating with said holder to control the combustion of said combustible material.

1,475,164. SIGNAL-TRANSMITTING SYSTEM. WALTER R. G. BAKER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 9, 1922. Serial No. 567,029. 4 Claims. (Cl. 250—8.)

1. The combination in a signal transmitting system of a magnetron, an oscillatory circuit associated with the electrodes of said magnetron, a source of current for supplying current to said oscillating circuit and for producing a magnetic field for controlling the current through said magnetron, a transmitting circuit which is supplied with current from said oscillating circuit and which also includes a winding for producing a magnetic field for controlling the current through said magnetron and causing the production of oscillations and means for produc-



ing a supplemental field of sufficient value to interrupt the production of oscillations in accordance with telegraphic signals.

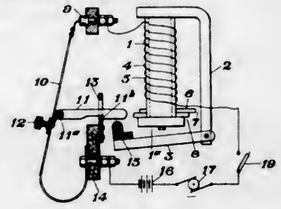
1,475,165. INDEX TAB. JAMES BARKER, Detroit, Mich. Filed June 6, 1919. Serial No. 302,098. 1 Claim. (Cl. 129—16.8.)



In an index card, the combination with a card, of a guiding strip secured to said card and extending outwardly beyond one edge thereof, and a double strip of transparent material secured to said card and extending over said guiding strip, said double strip having its fold spaced from the outer edge of said guiding strip, and a double index slip adapted to slidably engage the space between said guiding strip and doubled slip of transparent material and to ride upon the outer edge of said guiding strip, the lower edges of said index slip being spaced from the junction between said transparent material and card sufficiently to prevent the same from engaging in the crevices formed between the transparent material and card.

1,475,166. OVERLOAD-CIRCUIT BREAKER. CHARLES R. BEALL, Swissvale, and ROBERT M. GILSON, Pittsburgh, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Nov. 12, 1919. Serial No. 337,449. 12 Claims. (Cl. 200—94.)

8. A circuit breaker comprising a magnet, an armature controlled thereby, a branch path of considerable reluctance for shunting part of the magnetic flux created by said magnet away from said armature, means for causing the greater part of a varying magnetic flux in said magnet to traverse said branch path, and a contact controlled by said armature.



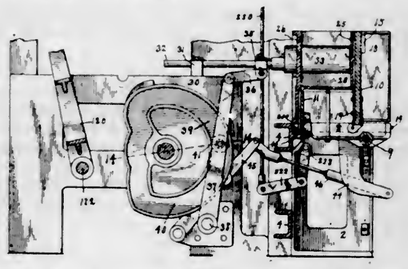
9. A circuit breaker comprising a core, a winding thereon, a strap of magnetizable material extending from one end of said core to a location adjacent the other end, an armature pivotally attached to said strap and movable towards and away from the latter end of said core, a member of magnetizable material extending towards said strap from a point on said core at a point between said winding and the latter end of the core, a band of electroconductive material around the core between said point and the latter end of the core, and a contact controlled by said armature.

1,475,167. DRIVING LUG FOR DEMOUNTABLE RIMS OF VEHICLE WHEELS. WILLIAM N. BOOTH, Detroit, Mich. Filed Dec. 5, 1919. Serial No. 342,611. 6 Claims. (Cl. 301—10.)



1. A driving lug for demountable rims of vehicle wheels comprising rivet portions and a projecting driving portion, both formed of a folded blank.

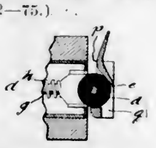
1,475,168. BLOCK MACHINE. CLAUS O. BRANDELL, Chicago, Ill. Filed Mar. 12, 1920. Serial No. 365,163. 17 Claims. (Cl. 25—41.)



1. In a block machine, the combination of a mold and a hopper to hold material, a chute leading from the hopper to the mold and formed of an upper stationary part attached to the hopper and a lower movable part, a container for excess material movable forward and back over the mold and to which the lower part of the chute is attached, the front side of the container being spring mounted, and a finisher bar attached to the front side of said container.

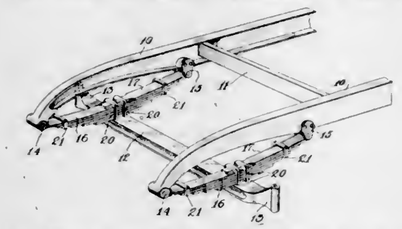
2. In a block machine, the combination of a block mold provided with movable cores, tamping mechanism, and means to supply block material to the mold, of coordinated driving mechanisms for the various parts comprising manually operable means for connecting the driving mechanisms to a motor, means to move the cores into the mold, means to release the tamping mechanism and to actuate the tapers and dogs independent of the actuating means to restrain the action of the tampers, after which the means for moving the cores withdraws them from the mold, means for causing the mold to discharge the finished block, and means for stopping the machine.

1,475,169. LATCH. SAMUEL D. BUTTERWORTH, Lansing, Mich. Filed Oct. 26, 1922. Serial No. 597,164. 5 Claims. (Cl. 292—75.)



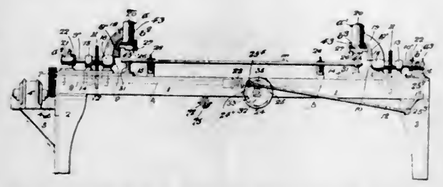
1. A lock, having in combination, a housing, a plunger rod and plunger yieldingly projected from the housing, a latch head connected with the end of the plunger and having a soft yieldable surface for striking the striker, whereby the impact is substantially noiseless, and means for arresting the outward projection of the plunger including an impact member of soft yieldable material associated with said plunger whereby this function is substantially noiseless.

1,475,170. LEAF SPRING AND SPRING SUSPENSION. RUSSELL S. CARTER, Hewlett, N. Y. Filed Oct. 29, 1919. Serial No. 334,217. 4 Claims. (Cl. 267—47.)



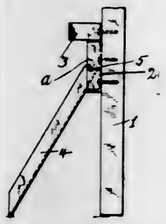
1. A spring comprising a body, a sliding leaf element and clip means, the body comprising a plurality of leaves of different lengths grouped successively one on another to provide a thick mid-portion and flexible ends, and the clip means holding said leaves together one on another in the region of said thick mid-portion, the sliding leaf element constituting part of one of said flexible ends, and being adapted for attachment to the bracket for the said end of the spring and being slidable longitudinally of said body within said clip means, so that the said sliding element constitutes the means for attaching the body to said bracket.

1,475,171. TUBE-MILLING MACHINE. EDWARD H. CHAPMAN, Bethlehem, Pa. Filed Sept. 9, 1919. Serial No. 322,614. 20 Claims. (Cl. 90—14.)



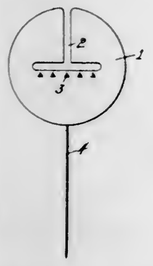
1. In a machine of the character stated, means for clamping a tube in position to be milled, oppositely rotatable devices for milling the ends of said tube, and fluid pressure controlled mechanism for advancing and retracting said milling devices with respect to the ends of said tube.

1,475,172. DOORSTOP. JOSEPH DAVIS, Pittsburgh, Pa. Filed Oct. 22, 1920. Serial No. 418,636. 1 Claim. (Cl. 292—338.)



A door stop comprising a member formed of a single plate of metal and a prop rod pivotally secured in said member, the said member having integral outwardly projecting resilient fingers adapted to hold said prop rod in inoperative position, and means at the lower end of said member to limit the movement of the said rod inwardly toward the door.

1,475,173. VEIL HOLDER. MARY A. DAY, Toledo, Ohio. Filed Mar. 15, 1923. Serial No. 625,244. 3 Claims. (Cl. 24—85.)



1. A veil holder having a head provided with a slot which extends a distance into the holder from one edge thereof without which it opens and then extends at an angle to the open end portion of the slot to receive a gathered portion of a veil, said head having means adjacent to the angled portion of a slot for engaging a veil to prevent its withdrawal from the slot by a longitudinal pull on the veil.

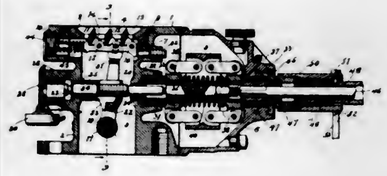
1,475,174. ELECTRIC MEASURING INSTRUMENT. HUGH L. DECKER, Toledo, Ohio, assignor to The W. G. Nagel Electric Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 25, 1920. Serial No. 361,156. 13 Claims. (Cl. 171—95.)



1. A magnet having a member of permanent magnet material, and a member of nonpermanent magnet material encircling the first member, the latter member having magnetic conductive connection with one pole of the permanent member and forming a single consequential pole adjacent to the other pole of the permanent member and of opposite polarity thereto.

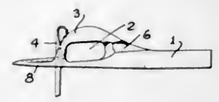
11. In an instrument of the class described, a movable vane, a magnet having its air-gap disposed adjacent to the vane and in a plane therewith substantially diametrical of the instrument, and a current conductor having a coil disposed at a side of the vane with its axis substantially at a right angle to the diametrical plane of the gap.

1,475,175. VALVE. THEODORE DOUGLAS, Scarboro, N. Y., assignor to Duplex Engine Governor Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 17, 1919. Serial No. 290,666. 9 Claims. (Cl. 137—140.)



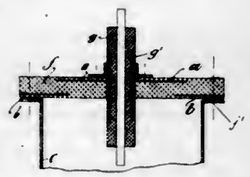
2. A valve comprising a plurality of pivoted shutter elements arranged side by side to provide parallel passages, said passages contracting and then expanding to give a Venturi-tube effect for all positions of the valve except closed position.

1,475,176. SINKER FOR KNITTING MACHINES. WILLIAM H. ENGLISH, Pawtucket, R. I., assignor to Earl L. Miller, Pawtucket, R. I. Filed Nov. 25, 1921. Serial No. 517,463. 7 Claims. (Cl. 66—26.)



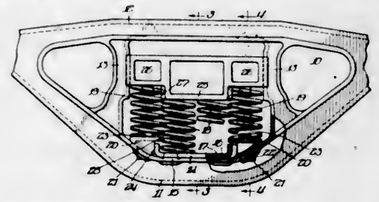
1. A sinker for knitting machines comprising a thread guide and a trough-like portion adapted to take the thread after leaving the guide.

1,475,177. COVERING PLATE OF INSULATING MATERIAL FOR TRANSFORMERS AND OTHER HIGH-TENSION APPARATUS. KURT FISCHER, Cologne-Braunsfeld, Germany, assignor to General Electric Company, a Corporation of New York. Filed Dec. 10, 1914. Serial No. 876,583. 4 Claims. (Cl. 173—311.)



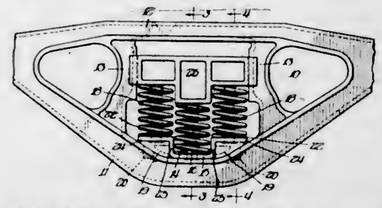
4. A cover for transformers and the like comprising a body of insulating material, spaced metallic discs concentrically disposed within said body, a leading-out tube supported centrally of said body, and a metallic cylinder embedded within said tube and electrically connected with one of said metallic discs.

1,475,178. RAILWAY-CAR TRUCK. GEORGE G. FLOYD, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Feb. 12, 1923. Serial No. 618,682. 6 Claims. (Cl. 105—197.)



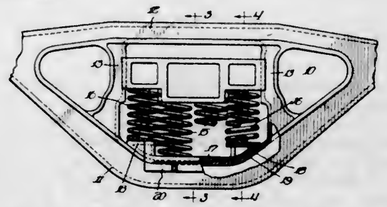
1. In a railway car truck, the combination of a side frame including tension and compression members and bolster columns, and bolster spring supporting seats, one of which is on a higher level than certain of the other seats and is separate from said other spring seats and separate from said tension member and mounted on the latter whereby an increased number of standard springs may be located between bolster columns spaced apart a given distance.

1,475,179. RAILWAY-CAR-TRUCK ARRANGEMENT. GEORGE G. FLOYD, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Feb. 12, 1923. Serial No. 618,683. 3 Claims. (Cl. 105—197.)



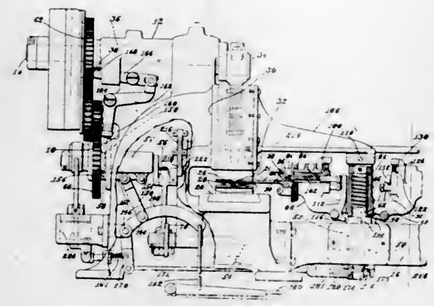
1. In a railway car truck, the combination of a side frame including tension and compression members and bolster columns, bolster spring supporting seat, one of which is on a higher level than a certain one of the other seats and is separate from said other spring seat and separate from said tension member and mounted on the latter, and a spring plank having portions supported on said tension member and said elevated spring seat, and springs resting upon said spring plank, whereby an increased number of standard springs may be located between bolster columns spaced apart a given distance.

1,475,180. RAILWAY-CAR TRUCK. GEORGE G. FLOYD, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Feb. 12, 1923. Serial No. 618,684. 3 Claims. (Cl. 105—197.)



1. In a railway car truck, the combination of a side frame including tension and compression members and bolster columns, and a spring plank resting upon said tension members between said columns and having integrally formed therewith spring supporting seats on different levels whereby an increased number of standard springs may be used between the bolster columns spaced apart a given distance.

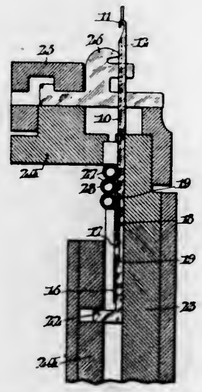
1,475,181. PROCESS OF AND MACHINE FOR PERFORATING. FREDERICK M. FURBER, Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 19, 1920. Serial No. 375,021. 56 Claims. (Cl. 164—20.)



42. In a machine of the class described, the combination of a plunger, a support carried thereby, means tending to move the plunger upward, a punch, and a grapple to transfer stock which has been operated upon by said punch to said support.

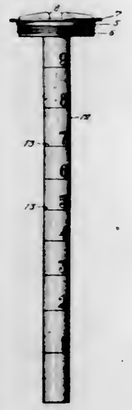
49. The process of operating upon a plurality of sheets of material arranged in a pile which consists in presenting the pile of said sheets to an operating tool, causing said tool to operate upon one or more of the sheets and then reversing the pile of sheets for a further operation.

1,475,182. KNITTING-MACHINE NEEDLE. JAMES G. HANES, Winston-Salem, N. C. Filed Apr. 19, 1922. Serial No. 555,581. 6 Claims. (Cl. 66—5.)



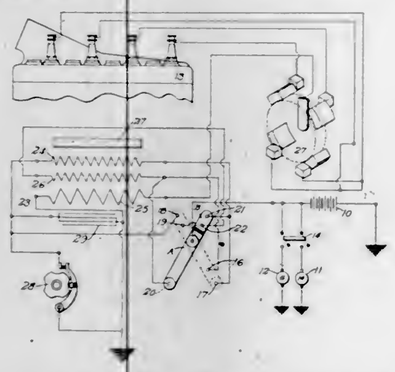
2. A knitting machine needle including a shank having a dove-tailed recess, a sliding latch member cooperating therewith, and a transverse dove-tailed enlargement on the latch member operating in the recess.

1,475,183. TANK CAP. JOHN FRANCIS HARWOOD, New York, N. Y., assignor to American Gauge Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 26, 1921. Serial No. 503,409. 2 Claims. (Cl. 73—120.)



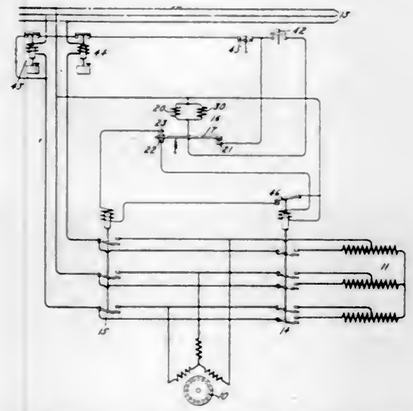
2. A cap, adapted to serve as a removable closure for the filling opening of a fuel tank, provided on its inner side with a projecting member located adjacent the outer edge of the cap and adapted to extend into the tank and be wet by its contents, and provided with a scale calibrated according to the capacity of the tank whereby the amount of liquid in the tank may be gauged by withdrawing the cap and projecting member from the tank and observing the level to which the projecting member is wet, and whereby, during filling of the tank the cap may be laid on the top of the tank adjacent the filling opening with the projecting member against the edge of the filling opening and extending into the tank thus leaving the filling opening unobstructed.

1,475,184. IGNITION SYSTEM. WILLIAM W. HAWKINS, Brooklyn, N. Y., assignor to Webster Electric Company, Racine, Wis., a Corporation of Wisconsin. Filed Feb. 20, 1922. Serial No. 537,988. 5 Claims. (Cl. 123—148.)



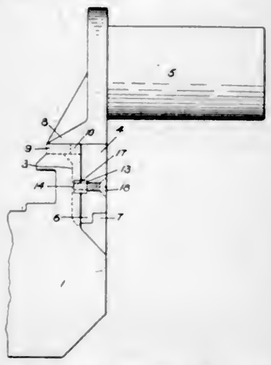
1. In an ignition system, a secondary circuit, an ignition coil secondary forming part of said circuit, a primary circuit, primary and tertiary ignition coils, both in inductive relation to said secondary coil, and means adapted to connect said primary and tertiary coils either in parallel or in series with each other.

1,475,185. AUTOMATIC MOTOR STARTER. BENJAMIN W. JONES, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 17, 1921. Serial No. 452,988. 7 Claims. (Cl. 172—289.)



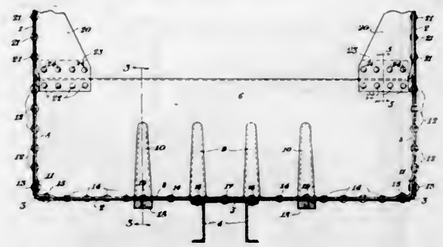
1. A system for controlling electric motors comprising two electromagnetic switches, a resilient switch member normally held in one position, means for putting the switch member under strain to bias the same toward a second position and for releasing the switch member after a definite interval of time to move quickly in accordance with its bias to the second position, and connections whereby the winding of the first electromagnetic switch is energized in the first position of the switch member and the winding of the second electromagnetic switch is energized in the second position of the switch member.

1,475,186. MEANS FOR SECURING TRUNNIONS TO CRADLE FORGINGS. BRYAN P. JOYCE, Davenport, Iowa. Filed Sept. 6, 1923. Serial No. 661,262. 2 Claims. (Cl. 89—37.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



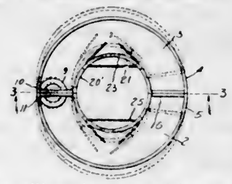
1. In a securing device for trunnion brackets, a supporting member provided with a socket, a trunnion bracket having a portion seated in said socket, cooperating tongues and grooves on said trunnion bracket and supporting member adapted to interlock to prevent lateral movement of said trunnion bracket with respect to said socket, said trunnion bracket and supporting member provided with registering grooves, a key member slidable in said grooves to lock said trunnion bracket on said supporting member and means securing said key in locked position.

1,475,187. RAILWAY CAR. BYERS W. KADEL, Baltimore, Md. Filed Jan. 26, 1923. Serial No. 614,959. 9 Claims. (Cl. 105—226.)



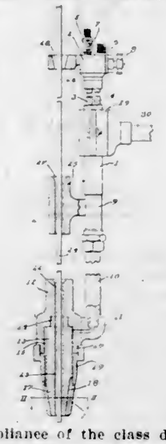
1. A body bolster for railway cars formed of a steel plate having marginal flanges along its sides and along its ends, the same being folded along a longitudinal line to form spaced sides with the flanges extending outwardly from the sides.

1,475,188. FLOOR OR CEILING PLATE. WILLIAM A. KEENEY, Hartford, Conn. Filed May 14, 1923. Serial No. 638,755. 3 Claims. (Cl. 126—317.)



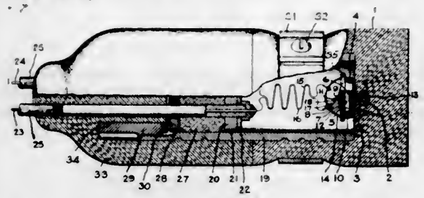
1. A floor or ceiling plate comprising segments having at their rear radial flanges, and a spring washer extended through the flanges, having prongs which penetrate the flanges.

1,475,189. METHOD AND APPLIANCE USEFUL IN PRODUCING WELDED JOINTS. ADOLF KREBS, Jamaica Plain, Mass. Filed June 13, 1922. Serial No. 567,882. 8 Claims. (Cl. 158—27.4.)



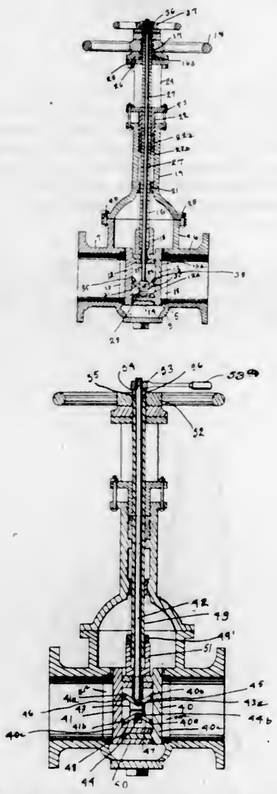
1. A heating appliance of the class described comprising a sleeve-like support having an axial passage for guiding a bar of welding material to the point of use, a nozzle tip secured to one end of said support and having a central bore aligning with said passage and being provided with a longitudinal groove in its outer surface, and a sleeve member cooperating with the groove in the nozzle tip to form a passage for combustible gaseous fluid.

1,475,190. SOUND-DETECTING DEVICE. IRVING LANGMUIR, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 6, 1919. Serial No. 302,279. 4 Claims. (Cl. 177—386.)



1. A sound detecting device comprising a rubber diaphragm, means of the inertia type for producing a varying electrical current, said means having two members, one attached to said diaphragm, and the other movable with respect to said first member, a lead for conducting electrical current extending to said relatively movable member, means for preventing the application of stress to the relatively movable member by the lead which extends thereto.

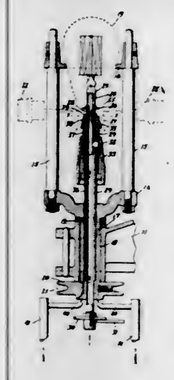
1,475,191. GATE VALVE. JOHN J. LEACH, Indian Orchard, Mass. Filed Feb. 3, 1919, Serial No. 274,808. Renewed Mar. 5, 1921. Serial No. 449,769. 3 Claims. (Cl. 251—67.)



1. A valve construction including a valve casing having opposing valve seats, valves sliding against the seats, a shaft for moving the valves against their seats, an-

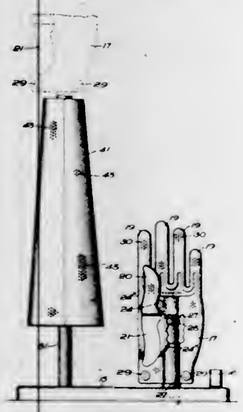
other shaft, a nut on the other shaft, and links connecting the nut to the valves whereby the valves may be moved against their seats to take up wear, said links being connected to the valves so as to equally distribute pressure thereon and to effect a uniform lateral adjustment of the valves against the seats.

1,475,192. SEALING-IN MACHINE. JAMES E. MARSHALL, Cleveland, Ohio, assignor to General Electric Company, a Corporation of New York. Filed Apr. 24, 1922. Serial No. 556,294. 6 Claims. (Cl. 49—2.)



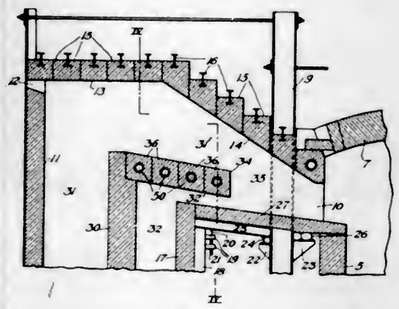
1. In apparatus for sealing into a bulb a mount having an exhaust tube extending longitudinally therefrom, the combination of a support for said bulb and means for supporting said mount within said bulb comprising a hollow shaft for receiving a portion of said exhaust tube and allowing unobstructed communication therethrough from said exhaust tube to the atmosphere.

1,475,193. FORMING, STRETCHING, AND DRYING SUPPORT FOR GLOVES AND THE LIKE. ALBERT MEEHAN, Portland, Me. Filed Dec. 17, 1920. Serial No. 431,356. 14 Claims. (Cl. 223—17.



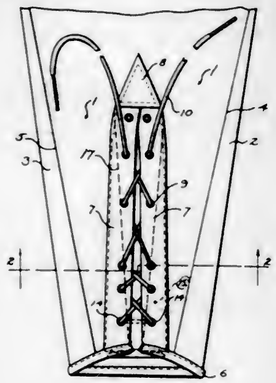
1. A device of the class described comprising, in combination, a hand portion and a separate wrist or arm portion, said portions being adapted for use independently and in combination.

1,475,194. BURNER FOR FURNACES. WILLIAM A. MORTON, Pittsburgh, Pa. Filed Jan. 6, 1922. Serial No. 527,319. 17 Claims. (Cl. 158—7.)



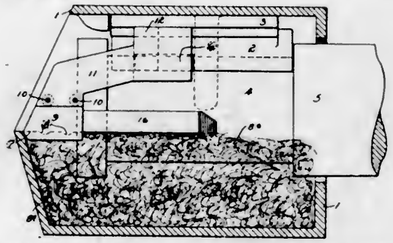
3. The combination with a furnace having side walls and a top, vertical stays spaced apart from each other along the sides of the furnace, of a burner disposed between each pair of stays of a width substantially co-extensive with the distance between the stays, each burner having a rectangular burner port in a side wall of the furnace and which is of a length slightly less than the distance between the stays.

1,475,195. TROUSERS. ROBERT C. NAYLOR, Dayton, Ohio, assignor to The Gem Shirt Company, Dayton, Ohio, a Corporation of Ohio. Filed July 21, 1921. Serial No. 486,560. 1 Claim. (Cl. 2—122.



In a pair of trousers, a leg having front and back portions of substantially equal width connected at their edges by stitching, said front portion being provided with a centrally disposed plait extending upward from the bottom of the leg, a reinforcing gusset at the top of said plait to limit the upward extension of the plait, reinforcing strips extending from the bottom of the leg to the gusset and curved inward at their upper ends whereby one of the strips laps the other adjacent said gusset, said strips being connected to the front portion of the trousers adjacent the plait at each side thereof by stitch lines extending along the edges of the strips, said strips each comprising a doubled fold of material with the raw edges adjacent the stitch line and the folded portion of each adjacent the folded portion of the other, eyelets secured through said folded portion, the eyelet supporting portion being free from the front member of the trouser leg and a lacing extending through said eyelets to draw the strips together.

1,475,196. BRASS AND PACKING GUARD FOR CAR-AXLE BOXES. HENRY D. PADGET, St. Louis, Mo. Filed Apr. 4, 1921. Serial No. 458,451. 3 Claims. (Cl. 64—24.)



1. An improved journal-brass and packing-guard for car-axle boxes, comprising a flat body-member having at its opposite ends parallel vertical perforated flanges; brass-lug supporting pockets; inwardly extending opposite arms having their outer ends attached to the said perforated flanges of said body-member, and supporting said pockets at their inner ends; and fastenings for securing said perforated flanges in place upon the interior of a car-axle box.

1,475,197. MOTOR-DRIVEN MIXER. STEPHEN J. POPLAWSKI, Racine, Wis., assignor, by mesne assignments, to The Gilchrist Company, Newark, N. J., a Corporation of New Jersey. Filed Nov. 23, 1921. Serial No. 517,298. 19 Claims. (Cl. 259—135.)



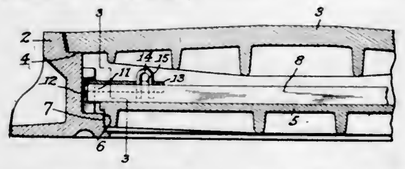
1. In a motor driven mixer, the combination of a supporting column, an electric motor stationarily mounted on said column and having a depending stirring element supported in a substantially fixed position with respect to the motor, a movable container support carried by the column, and a switch for controlling said motor, said container-support being movable by the weight of a container and its contents to actuate the switch to start the motor.

1,475,198. ELECTROPLATING APPARATUS. LOUIS POTTHOFF, deceased; by Hamilton Trust Company, executor, a Corporation of Brooklyn, N. Y. Filed Feb. 20, 1920. Serial No. 360,244. 23 Claims. (Cl. 204—11.)



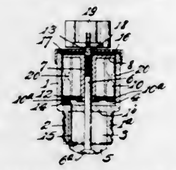
1. In an apparatus for electroplating flat circular articles, the combination with a plurality of supporting tracks, guides extending parallel to said tracks to sustain the article in upright position, and conveying means for continuously rolling a number of parallel rows of articles along said tracks and between said guides.

1,475,199. MANHOLE COVER. ROBERT R. RUST, New York, N. Y. Filed Apr. 1, 1919. Serial No. 286,630. 3 Claims. (Cl. 94—34.)



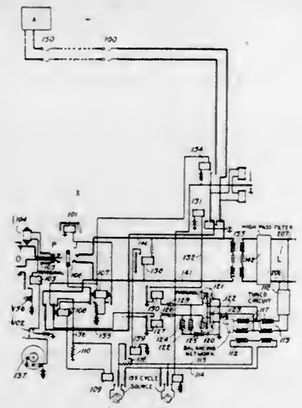
1. The combination of a manhole and a cover having cone-shaped metal meeting surfaces, the said surfaces being tapered, the taper of one of said surfaces being at a greater angle from the perpendicular than the taper on the other of said surfaces to insure a tight metal-to-metal joint therebetween.

1,475,200. MULTIPLE-FUSE PLUG. ISAAC H. TERRELL and DANIEL L. TERRELL, Kent, Ohio.. Filed Jan. 5, 1922. Serial No. 527,213. 2 Claims. (Cl. 200—125.)



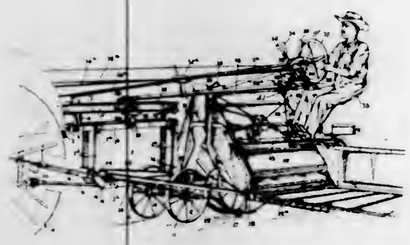
2. A rotatable magazine for multiple fuse plugs, comprising a central member, a metallic disk carried at one end of said member, a fibre disk carried at the opposite end of said member, said disks having spaced radial slits therein, and a plurality of fuses arranged between said disks and having their opposite end portions slidable to and from seated positions in said slits.

1,475,201. TELEPHONE-EXCHANGE SYSTEM. JOHN F. TOOMEY, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 18, 1920. Serial No. 431,704. 21 Claims. (Cl. 179—27.)



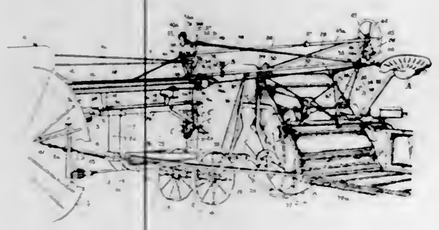
21. A transmission circuit, means for supplying currents of different intensity thereto, and a plurality of thermionic devices associated with said circuit and selectively operable by said currents.

1,475,202. TRACTOR CONNECTION FOR AGRICULTURAL IMPLEMENTS. ISAAC TROLLEY, Poughkeepsie, N. Y., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Filed July 17, 1918. Serial No. 245,410. 25 Claims. (Cl. 56—22).



1. The combination with a two-wheeled tractor of the unstable type of an unstable implement, and means connecting the tractor and implement for stabilizing both of them and affording a point of ground contact between them, said means permitting the implement to swing relative to the tractor about a substantially horizontal, longitudinal axis and to be adjusted or tilted about a transverse, horizontal axis.

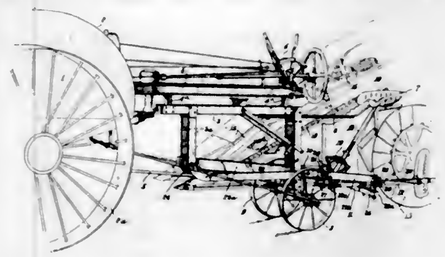
1,475,203. TRACTOR HITCH FOR AGRICULTURAL IMPLEMENTS. ISAAC TROLLEY, Poughkeepsie, N. Y., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Filed Oct. 15, 1918. Serial No. 258,147. 7 Claims. (Cl. 56—22.)



2. A hitch for connecting a binder to a two wheel tractor of the unstable type having a coupling frame with tractor controls carried by said frame, comprising a stabilizing truck, connections between the stabilizing truck and the binder permitting the binder to be tilted, control extensions carried by the binder, means for connecting the control extensions to the controls on the coupling frame of the tractor, and mounting means for said control extensions permitting the binder to be tilted to adapt itself to inequalities in the surface of the ground without disturbing the controls.

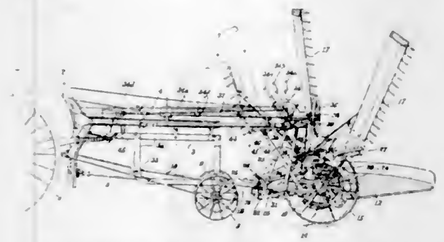
1,475,204. TRACTOR CONNECTION FOR AGRICULTURAL IMPLEMENTS. ISAAC TROLLEY, Poughkeepsie, N. Y., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Filed Dec. 26, 1918. Serial No. 268,387. 11 Claims. (Cl. 56—15.)

1. The combination with a two wheel tractor of the unstable type, of a stabilizing truck, a corn harvester having portions thereof extending to one side of the stabilizing truck, draft connections between the truck and



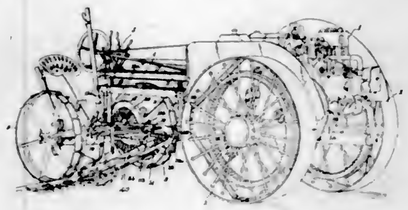
harvester, and mechanism associated with the harvester and draft connections for tilting the harvester about a horizontal axis.

1,475,205. TRACTOR CONNECTION FOR AGRICULTURAL IMPLEMENTS. ISAAC TROLLEY, Poughkeepsie, N. Y., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Original application filed July 17, 1918, Serial No. 245,410. Divided and this application filed Dec. 26, 1918. Serial No. 268,388. 13 Claims. (Cl. 56—25.)



1. The combination with a tractor of the unstable type, of an implement, draft connections between the implement and tractor, means for tilting the implement about a horizontal axis, controlling means for the tractor, and mechanism supporting the controls so that they will be available for manipulation by the operator on a seat on the implement, said mechanism serving to automatically and positively maintain the controls in substantially the same horizontal position in all adjusted positions of the implement.

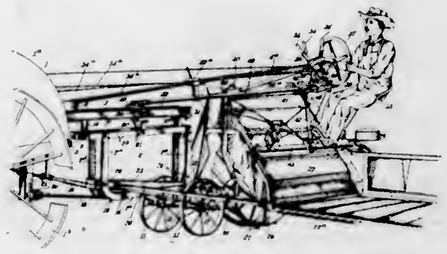
1,475,206. TRACTOR HITCH. ISAAC TROLLEY, Poughkeepsie, N. Y., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Filed Dec. 26, 1918. Serial No. 268,389. 21 Claims. (Cl. 56—25.)



9. The combination with a tractor of a mowing machine having cutting mechanism, and means connecting the tractor with the mowing machine serving when the draft

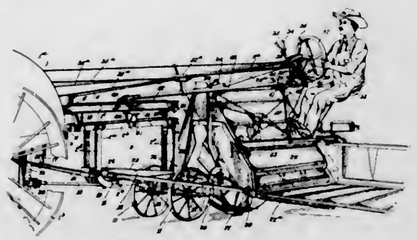
required to pull the machine exceeds a predetermined value, to transfer a portion of the draft directly to the cutting mechanism.

1,475,207. TRACTOR CONNECTION FOR AGRICULTURAL IMPLEMENTS. ISAAC TROLLEY, Poughkeepsie, N. Y., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Original application filed July 17, 1918, Serial No. 245,410. Divided and this application filed July 16, 1919. Serial No. 311,209. 3 Claims. (Cl. 56—22.)



3. The combination with a two wheeled tractor of the unstable type of a binder, a stabilizing truck for connecting the tractor and binder and stabilizing both of them, said truck including swiveled truck wheels, and means for causing the truck wheels to be swiveled in unison with the tractor as it is steered.

1,475,208. TRACTOR CONNECTION FOR AGRICULTURAL IMPLEMENTS. ISAAC TROLLEY, Poughkeepsie, N. Y., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Original application filed July 17, 1918, Serial No. 245,410. Divided and this application filed July 28, 1919. Serial No. 313,706. 8 Claims. (Cl. 56—22.)



3. The combination of a tractor, a grain binder having a cutter bar, a draft device connecting the tractor and binder and movable in a substantially vertical plane, means for moving the draft device to raise and lower the binder cutter bar, mechanism detachably connected with the binder and serving to connect it with the draft device for transportation purposes, and means for holding the draft device against vertical movement when the binder is connected in transport position.

1,475,209. HEAD CONSTRUCTION FOR BEAMS AND THE LIKE. WALTER I. TUTTLE, Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass., a Corporation of Rhode Island. Filed Apr. 26, 1921. Serial No. 464,758. 7 Claims. (Cl. 242—123.)

1. In head construction for beams and the like, in combination, a sheet metal head member and a plurality of stiffening members extending outwardly in a substantially radial direction and secured to said sheet metal



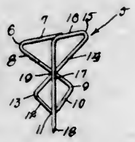
head member by means of spaced lugs passing therethrough and headed.

1,475,210. AIRSHIP. RALPH H. UPSON, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 26, 1919, Serial No. 340,763. Renewed May 21, 1921. Serial No. 471,488. 20 Claims. (Cl. 244—6.)



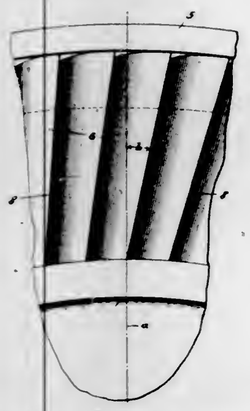
1. In a balloon, the combination with a gas-containing portion, an air-containing portion, and a flexible envelope encasing said portions, of a fluid conducting chamber extending longitudinally of the envelope and divided into a gas-supplying compartment and an air supplying compartment, means for establishing communication between the gas containing portion of the balloon and the gas supplying compartment, and means for establishing communication between the air-containing portion of the balloon and the air-supplying compartment.

1,475,211. PIN CLIP. BERNARD G. VIGURS, Staten Island, N. Y. Filed Sept. 22, 1922. Serial No. 589,874. 2 Claims. (Cl. 24—85.)



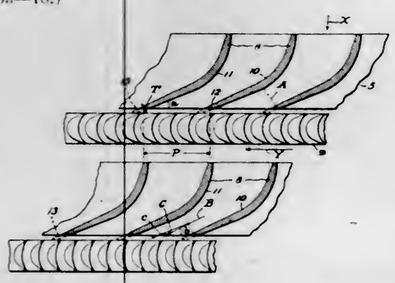
1. A pin clip of the class described comprising a vertical shank provided at its lower end with a piercing point, the other end thereof being bent to provide a clamping member including a portion extending across the shank and arranged in contact therewith, and also a second portion extending across the first named portion to hold the latter in close contact with the shank.

1,475,212. ELASTIC-FLUID TURBINE. GLENN B. WARREN and HARRISON L. WIRT, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed July 12, 1922. Serial No. 574,386. 7 Claims. (Cl. 253—78.)



1. A diaphragm for elastic fluid turbines in which the nozzle passages flare in a radial direction, characterized by the fact that the nozzle partitions are so shaped that the plane of the throat of each nozzle is at an angle to the radial and serves to impart to elastic fluid flowing through the nozzle a radial component opposed to the radial component which the flared nozzle passage tends to create.

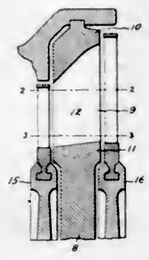
1,475,213. ELASTIC-FLUID TURBINE. HARRISON LORING WIRT, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 12, 1922. Serial No. 574,476. 13 Claims. (Cl. 253—78.)



1. A nozzle diaphragm having nozzle partitions so spaced and formed that wholly converging, non-expanding nozzles are provided in which the ratio of the throat width increased by the thickness of the exit edge of the partitions to the pitch of the nozzle partitions is equal to or greater than the sine of the angle which the front walls of the nozzle partitions make with the plane of the diaphragm.

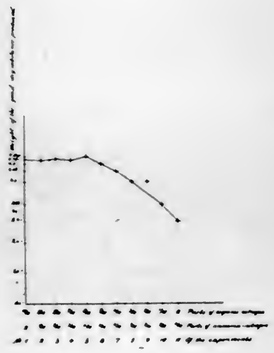
1,475,214. ELASTIC-FLUID TURBINE. HARRISON LORING WIRT, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 12, 1922. Serial No. 574,477. 4 Claims. (Cl. 253—78.)

1. A nozzle diaphragm having nozzle partitions so spaced and formed that the ratio of the pitch to the width of throat is less at the radially inner ends of the nozzle than at their radially outer ends, while at the same time the angle which the discharge ends of the



front walls of the partitions make with the plane of the diaphragm is the same throughout the radial length of the nozzles.

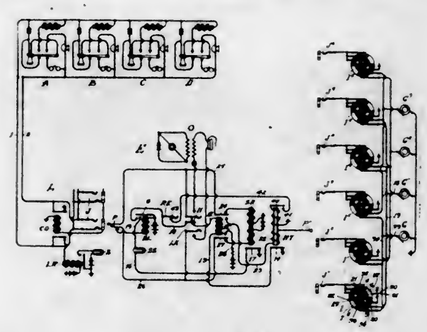
1,475,215. PROCESS FOR THE MANUFACTURE OF YEAST. ALFRED WOHL, Danzig-Langfuhr, Free City of Danzig, assignor to The Fleischmann Company, New York, N. Y., a Corporation of Ohio. Continuation of applications filed June 23, 1920, Serial No. 391,156, and Aug. 31, 1921, Serial No. 497,322. This application filed Aug. 31, 1921. Serial No. 497,321. 10 Claims. (Cl. 195—20.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. The process of manufacturing yeast which comprises preparing a cereal wort in which the yeast-assimilable organic nitrogen is replaced to an amount of from 10% to 50% by yeast-assimilable ammoniacal nitrogen, and propagating yeast therein with aeration.

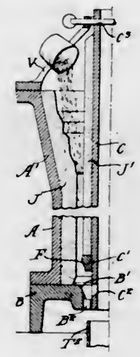
1,475,216. TELEPHONE SYSTEM. GEORGE A. YANOCHOWSKI, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 5, 1918. Serial No. 248,239. 20 Claims. (Cl. 179—35.)

1. A telephone system including a polystation telephone line terminating in the central exchange in a jack, a manually controlled operator's circuit provided with a plug for connection to said jack and line, automatic means associated with said circuit for alternately signaling two of the substations connected to said line,



and operator-controlled means for connecting said automatic means to said telephone line and for selecting the automatic means to signal said two substations.

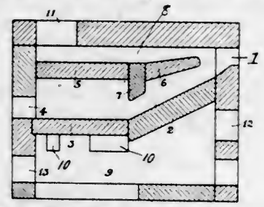
1,475,217. METHOD AND APPARATUS FOR FORMING PIPE MOLDS. THOMAS P. ANTHONY, Edgewater Park, N. J. Filed May 6, 1921. Serial No. 467,271. 11 Claims. (Cl. 22—198.)



1. The method of forming a mold for casting pipe which consists in assembling a flask and core bar together with a shell pattern for forming the body portion of the pipe compacting molding sand in the spaces on both sides of the shell pattern to form the mold and core, removing the shell pattern, adjusting the mold members so as to leave an open-ended vertical passage between mold and core, pouring a liquid blacking mixture in the space between the mold and core to black the mold and passing drying gases through the space between the mold and core to simultaneously dry both members of the mold.

1,475,218. RIVET OR THE LIKE HEATING FURNACE. JOHANNES ROBERT CARL AUGUST, Halifax, England. Filed June 2, 1920. Serial No. 386,089. 3 Claims. (Cl. 263—2.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A rivet or the like heating furnace having an inlet opening on one side for the articles to be heated leading by means of a chute and a heating floor to an outlet opening diametrically opposite thereto at a lower level, in which the chute and floor are covered by a bridge forming the under surface of a flue along which the



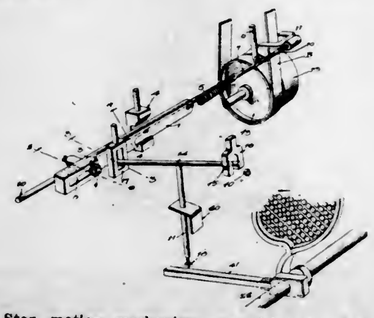
heating gases pass in the same direction as the articles passing through the furnace, after these gases have passed directly over the articles in the reverse direction.

1,475,219. RADIO SIGNALING SYSTEM. RALPH BOWN, East Orange, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 1, 1920. Serial No. 421,086. 13 Claims. (Cl. 250—9.)



11. In a radio system comprising a plurality of stations, the method of controlling from one station the transmitting frequency of a second station, which consists in transmitting from the first station a modulated wave of fixed frequency, beating the received modulated wave at the said second station with the unmodulated transmitted wave of the said second station and adjusting the frequency of the said unmodulated transmitted wave until the difference in frequency between the received modulated wave and the unmodulated transmitted wave will be of such magnitude as to pass through a selective circuit associated with the receiving circuit of the said second station.

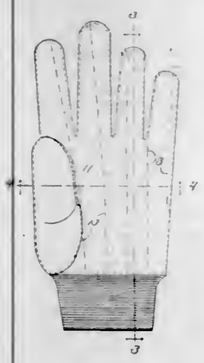
1,475,220. STOP MOTION FOR SPINNING FRAMES. JOHN WILLIAM CAUTHEN, Kannapolis, N. C. Filed Feb. 15, 1922. Serial No. 536,732. 3 Claims. (Cl. 192—138.)



1. Stop motion mechanism comprising a latch having a shoulder and a slot, means for pulling the latch in one direction, a bracket engageable by said shoulder

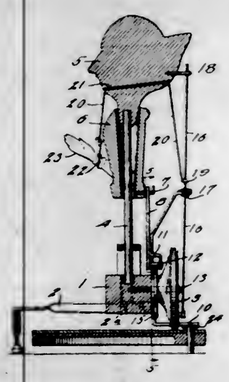
to resist the tendency of said pulling means, a shifter bar having a yoke for shifting a belt from a fast to a loose pulley, means serving as a mounting for the shifter bar on the latch including an extension which is adjustable in the slot of said latch, a pivoted rod adapted to lift the latch shoulder from the bracket to permit operation by said pulling means, a lifter rod engaging said pivoted rod, and a lever carried by a rock shaft of a spinning frame adapted to periodically engage the lifter rod.

1,475,221. GLOVE. LAVERR CLEVELAND, Mansfield, Ohio. Filed December 26, 1919. Serial No. 347,285. 2 Claims. (Cl. 2—9.)



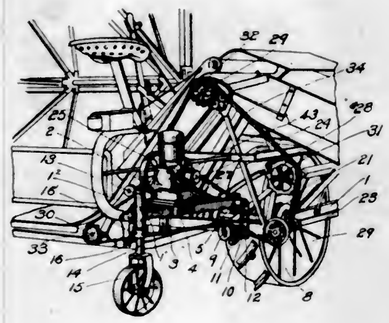
1. A hand covering comprising single ply back and plural ply palm members and all plies being of cloth, the cloth of the palm plies being continuous over the entire palm area and the palm plies being joined by lines of stitches that extend only longitudinally of the hand covering and spaced apart transversely thereof throughout their longitudinal extent.

1,475,222. DANCING DOLL. ATHERTON D. CONVERSE, Winchendon, Mass. Filed Feb. 25, 1921. Serial No. 447,781. 15 Claims. (Cl. 46—40.)



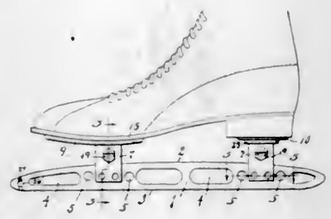
3. A figure toy adapted to be removably supported from the phonograph disc and having bracing means adapted to removably engage the phonograph case beyond the edge of the disc to prevent the figure from turning, said figure having a movable part, and operating means connected with said movable part and removably contacting with the horizontal portion of the record and held in frictional engagement therewith by gravity only and held in defined position by a loose engagement with the center pin of the turntable.

1,475,223. AUXILIARY POWER CARRIER FOR VEHICLES. EVERETT B. CUSHMAN, Topeka, Kans., assignor, by mesne assignments, to O. D. Collis, Clinton, Iowa. Filed Apr. 14, 1919. Serial No. 289,854. 8 Claims. (Cl. 56—10.)



8. In combination, a harvester, vertically adjustable spaced brackets carried by said harvester, an engine support coupled to said brackets, and an adjustable caster wheel supporting the free end of said carrier.

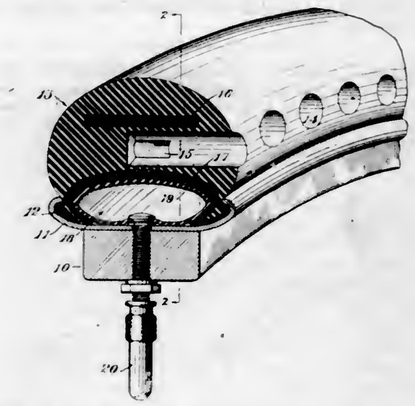
1,475,224. SKATE. STEPHEN DE ORLOW, Detroit, Mich., assignor of one-half to Hugo J. Ulbrich, Detroit, Mich. Filed Feb. 3, 1922. Serial No. 533,843. 6 Claims. (Cl. 46—30.)



1. A skate consisting of a runner, sole and heel plates, brackets detachably connecting the runner and said plates, the brackets being each formed of two independent clamping members attached to the runner by a screw, said plates and clamping members being formed with interengaging portions whereby the brackets and runner are held rigid relative to said plates.

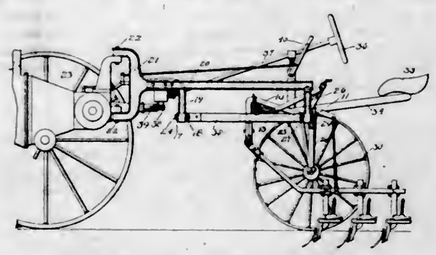
1,475,225. TIRE CONSTRUCTION. EARLE H. DICKENSHEET, San Francisco, Calif., assignor to Faultless Pneumatic Tire Company, Seattle, Wash., a Corporation of Washington. Filed Jan. 5, 1921. Serial No. 435,123. 3 Claims. (Cl. 152—10.)

2. A tire comprising a body portion having an annular air chamber formed adjacent the inner circumference thereof, laterally extending recesses formed in the body portion, said recesses alternately extending from opposite sides of the tire in staggered relation to each other and in a position to cause their inner



ends to intersect and laterally overlap, and laminated fabric reinforcing members embedded in the body portion to bridge the overlapping ends of the recesses.

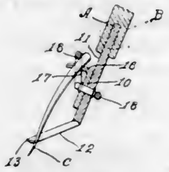
1,475,226. TRACTOR CULTIVATOR. HARRY S. DICKINSON, Moline, Ill., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Filed Jan. 5, 1918. Serial No. 210,461. 5 Claims. (Cl. 97—243.)



1. The combination with a two wheel tractor of the unstable type consisting an independent power unit attachable to various devices to be drawn and having a rearwardly extending coupling frame pivoted to swing about a substantially vertical axis in a plane relatively high above the ground so as to clear crops being cultivated, of a cultivator having ground wheels and a frame including front and rear cross members and connections between the tractor coupling frame and the front and rear cross members of the cultivator permitting the cultivator to move relative to the coupling frame about a substantially longitudinal, horizontal axis, said connections serving to absorb the reaction of the tractor, to stabilize it, and to transmit draft to the cultivator, the connections being located relatively high above the ground so as to clear objects such as growing crops.

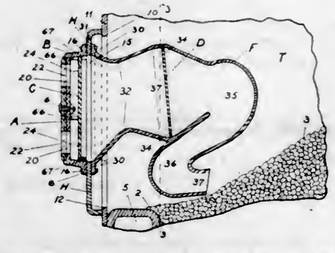
1,475,227. TALKING-MACHINE-NEEDLE HOLDER. CLARENCE J. FERGUSON, Casper, Wyo. Filed Sept. 1, 1922. Serial No. 585,715. 10 Claims. (Cl. 274—37.)

1. A device of the character described comprising a body formed at one end with an extension adapted to be held within the needle holding socket of a reproducer, a foot member at the bottom of said extension formed with a wedge shaped opening, a notched flange at the intermediate portion of the body having the notch in alignment with said wedge shaped opening, the opening being designed to receive the smaller end of a stylus and the notch being designed to receive the larger end



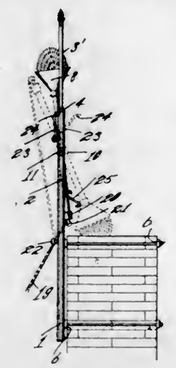
thereof, and a spring at the upper portion of the body engageable with the upper end of the stylus for rocking the same at the notch to cause the smaller end to fit snugly against the narrow end of the opening.

1,475,228. AIR HEATER FOR FURNACES. NEWEL D. GOFF, Providence, R. I. Filed Mar. 9, 1923. Serial No. 623,983. 5 Claims. (Cl. 110—75.)



1. The combination with the fire door of a furnace having a circular opening; of a cover fixed outside said door so as to cover such opening; an adjustable damper in said cover; an air distributing plate having air holes near its periphery fixed inside said cover; a goose neck fixed to the inside of said door over said opening and extending thence inward, thence back and down to a nozzle on a level with and proximate the bottom of said door; and a substantially circular baffle plate fixed medially in said goose neck to cause the air to circulate closely inside the walls of the goose neck.

1,475,229. CHIMNEY CLEANER. SERVATINS HEIMERMAN, Chilton, Wis. Filed Sept. 22, 1922. Serial No. 589,891. 3 Claims. (Cl. 15—249.)



1. The combination with a chimney, of a frame associated adjacent the upper end therewith, a tubular member pivotally mounted in the said frame, said tubular member having an enlarged head, a cleaning element

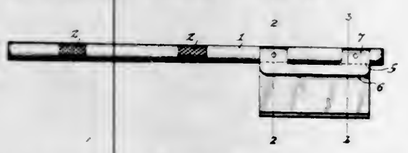
seated in the said enlarged head, means associated with the frame for causing the tubular member to communicate with the interior of the chimney, and means associated with said cleaning element to allow the same to descend into the chimney, and means for withdrawing the cleaning element therefrom.

1,475,230. SPRING HITCH. WILLIAM F. HENDERSON, Kempton, Ind. Filed Dec. 4, 1922. Serial No. 604,803. 5 Claims. (Cl. 267—72.)



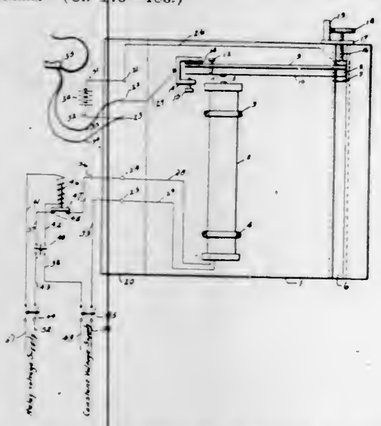
1. A spring hitch for plows and the like, including two pairs of substantially U-shaped members, a bolt connecting the free ends of each pair of U-shaped members, and a spring interposed between said bolts and encircling the inner leg of each U-shaped member.

1,475,231. SAFETY-RAZOR-BLADE HOLDER. HENRY HOPPER, Rosario, Argentina. Filed Feb. 25, 1922. Serial No. 539,247. 2 Claims. (Cl. 30—25.)



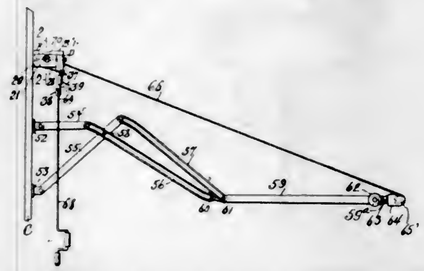
1. In combination, a handle provided adjacent one end with a pair of spaced reduced portions, a clip associated with the handle and including a pair of gripping lips held together by spring curved portions fixed to the reduced portions of the handle.

1,475,232. APPARATUS FOR MEASURING INTERVALS OF TIME. CLARENCE W. INGELS, Washington, D. C. Filed Jan. 30, 1922. Serial No. 532,841. 11 Claims. (Cl. 175—183.)



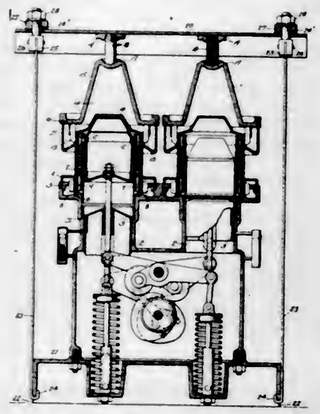
11. A device for measuring the timing of electrical contacts, comprising an induction coil having a core, a movable armature cooperating therewith, means for opening and closing the circuit of said coil syncronously with the movement of contacts to be timed, an auxiliary circuit controlled by said armature and means included in said auxiliary circuit for indicating the condition thereof, a base element for supporting said coil provided with a groove in one face thereof, a slide fitted in said groove with an armature carrying arm supported thereon, and means for displacing said slide measured distances to vary the air gap between the armature and the core of the induction coil.

1,475,233. AWNING WORM-GEAR-OPERATING DEVICE. CARL JOSEPH, Bayonne, N. J., assignor of one-half to Frederick J. Kloes, Jersey City, N. J. Filed Aug. 31, 1920. Serial No. 407,099. 2 Claims. (Cl. 156—42.)



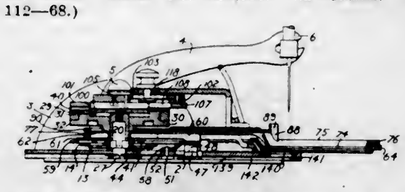
2. In an awning operating device the combination of a roller, a gear casing at one end of the roller, similar sleeves extending from the ends of the roller, a tension rod extending through the sleeves and roller, supporting brackets having openings for the ends of the tension rod, means to maintain the rod taut between the brackets, a third bracket fastened to one of the supporting brackets supporting the gear casing, gears in the casing with one thereof connected to the sleeve therein, an operating shaft connected to a second gear in the casing guided in an opening in the third bracket, means to turn the operating shaft, a pair of outriggers below the roller, a tube connecting the outer ends of the outriggers and a curtain with one end connected to the roller and the other end connected to said tube.

1,475,234. AIR-REFRIGERATING MACHINE. IVAR LUNDGAARD, Hartford, Conn., assignor to The Automatic Refrigerating Company, Hartford, Conn., a Corporation of New Jersey. Filed Mar. 30, 1922. Serial No. 548,220. 6 Claims. (Cl. 62—136.)



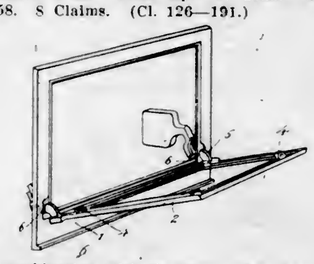
1. An air refrigerating machine comprising an end to be operated hot and an end to be operated cold, said two ends being separated by heat insulating material in combination with clamping means in heat insulated relation to said end to be operated cold to hold the latter in position by compression.

1,475,235. ATTACHMENT FOR SEWING MACHINES. ALBERTUS B. MATTINGLY, New York, N. Y. Filed Jan. 21, 1920. Serial No. 352,980. 12 Claims. (Cl. 112—68.)



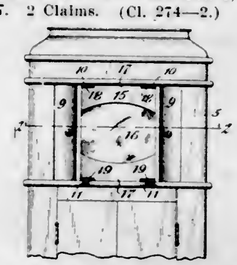
1. In a button-hole stitching attachment, the combination of a base-plate, a carrier slidable laterally, a cutter-block movable on the carrier, a work holder mounted to reciprocate relative to the carrier and also to move laterally, means for reciprocating the work-holder, means for vibrating the work-holder, a cutter blade carried by the work-holder to partake of its said movements, said work-holder being connected with said carrier and cutter-block to shift the carrier laterally on vibration of the work-holder, whereby to maintain the cutter-block parallel with the blade during said vibration of the work-holder.

1,475,236. STOVE DOOR. WILLIAM L. MERSFELDER, Cincinnati, Ohio. Filed Apr. 5, 1923. Serial No. 630,158. 8 Claims. (Cl. 126—191.)



1. In combination with the frame of a chamber to be opened and closed, said frame having slots therein, a door for closing said chamber having arms to project through said slots and rock therein, and a member on one of the arms, at least, removably secured thereto and presenting an edge faced toward the chamber opening, and a curved projection on the oven frame over which said edge rides in the movement of the door.

1,475,237. PHONOGRAPH-CABINET SHUTTER. JOHN C. MILLER, Buffalo, N. Y., assignor of one-half to Joseph W. Parson, Buffalo, N. Y. Filed Oct. 5, 1921. Serial No. 505,667. 2 Claims. (Cl. 274—2.)



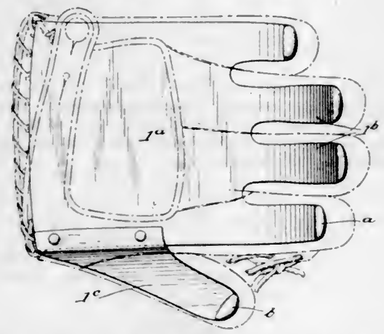
1. A chamber having an opening, a closure for said opening comprising doors arranged at opposite edges of said opening and movable toward and from each other, horizontally swinging arms carrying said doors, intermeshing gearing mounted on said arms and causing said doors to move in unison, and an upright screen arranged across said opening and having slots through which said arms move upon opening and closing said doors.

1,475,238. CIGAR AND CIGARETTE HOLDER. WALTER MONTGOMERY, Chicago, Ill. Filed May 5, 1920. Serial No. 379,192. 1 Claim. (Cl. 131—10.)



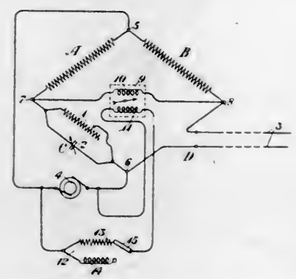
A device of the class described, comprising a body provided with resilient jaws; a ring slidable along the jaws and including pivotally connected members; and a tightening element engaging said members to hold them together, the tightening element cooperating with one of the jaws to hold the ring in adjusted positions longitudinally of the jaws.

1,475,239. FORM FOR BASEBALL GLOVES. ROBERT F. NIXON, Jr., Philadelphia, Pa., assignor to George A. Reach, Philadelphia, Pa. Filed Jan. 5, 1923. Serial No. 610,780. 3 Claims. (Cl. 206—46.)



1. A form for use in shipping base ball gloves, comprising a sheet of relatively stiff material having palm, finger and thumb portions, said finger and thumb portions being curved or inclined inwardly or towards the palm side of the glove.

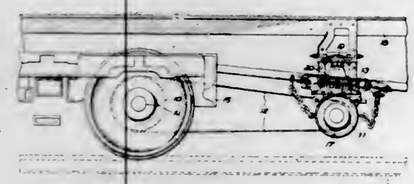
1,475,240. LOW-FREQUENCY MEASURING DEVICE. HAROLD S. OSBORNE, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 11, 1919. Serial No. 289,395. 4 Claims. (Cl. 175—183.)



1. In a device for measuring the impedance of a line for different frequencies, the combination of a source of current, an indicating device comprising two current responsive elements which cooperate to produce the indications thereon, an adjustable impedance designed to have reactances of a character to balance the line to be measured, means for so connecting said current source, the adjustable impedance, the impedance to be measured and

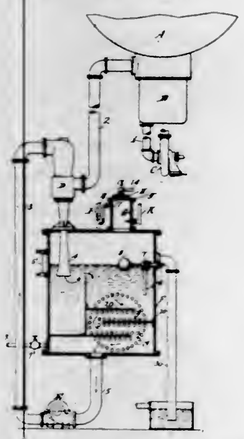
one of the elements of the indicating device that the current flowing through said element of the indicating device from said source is dependent upon the relative value of the adjustable impedance and the impedance to be measured, and means for so connecting the other element of said indicating device to said source that it is unaffected by disturbing potentials in said impedance to be measured.

1,475,241. DRIVING CONNECTION FOR RAILWAY-CAR GENERATORS. PETER PARKE, Chicago, Ill., assignor to The Pullman Company, Chicago, Ill., a Corporation of Illinois. Filed May 28, 1923. Serial No. 640,819. 10 Claims. (Cl. 105—106.)



1. In a belt-and-pulley power transmission wherein the median plane of one pulley is adapted to shift arcuately out of alignment with the median plane of the other pulley, a crowned pulley characterized by an axial length greater than its diameter.

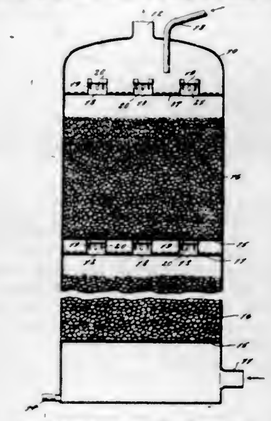
1,475,242. CONDENSING SYSTEM. WILL H. PHILLIPS, Chicago, Ill., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Feb. 19, 1921. Serial No. 446,382. 6 Claims. (Cl. 257—24.)



1. The combination, with a condenser, and means for continuously removing and discharging the air from the condenser, of continuously acting means for determining the rate of discharge of the air.

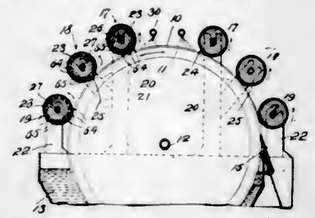
1,475,243. DISTILLING OR REFINING COLUMN. EMIL PIRON, New York, N. Y., assignor to Piron Coal Distillation Systems, Inc., New York, N. Y., a Corporation of Delaware. Filed July 22, 1922. Serial No. 576,666. 4 Claims. (Cl. 261—98.)

1. In an apparatus of the class described, a column having a liquid inlet and a vapor exit at the top and a vapor inlet and a liquid outlet at the bottom thereof, a plurality of horizontal foraminous trays spaced apart in said column, a layer of loose material on each of said trays, and means between the top of each layer and the



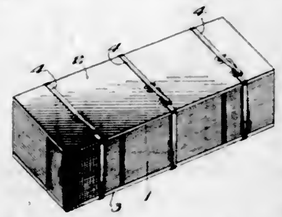
bottom of the tray above it to catch the liquid passing through the tray and to redistribute it as it falls to the layer of loose material beneath.

1,475,244. FILTER. LOUIS C. ROLLS, Hedley, British Columbia, Canada. Filed July 10, 1920. Serial No. 395,408. 7 Claims. (Cl. 210—201.)



1. A filter having, in combination, a continuously moving filtering surface, means for creating a vacuum at the filtering surface, means for covering the filtering surface with material to be filtered, means for supplying wash fluid to the surface of the material, and a series of rolls mounted to rest upon the surface of the material and interposed in the path of travel of the fluid, all said rolls, except the last one, being provided with channels for the passageway of the fluid past the rolls.

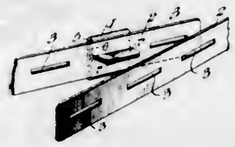
1,475,245. FLAT OR ROUND WIRE TIGHTENER. CURTIS J. ROTHERMEL, Philadelphia, Pa. Filed Jan. 25, 1923. Serial No. 614,746. 2 Claims. (Cl. 24—71.3.)



1. A band tightener and fastener for packages having bands secured around them, the material of such packages being adapted to contract or shrink, of a band tightener and fastener, comprising a strip of material

having at one end an offset loop between the arms of which the band of said package is received and having at its opposite end a lateral extension, whereby when the fastener is moved towards the band to tighten it the lateral extension can be inserted beneath the band to retain the fastener in locked position, said loop being disposed at an angle to the longitudinal axis of the band tightener and fastener.

1,475,246. BALE TIE. CURTIS J. ROTHERMEL, Philadelphia, Pa. Filed May 19, 1922. Serial No. 562,051. 2 Claims. (Cl. 24—23.)



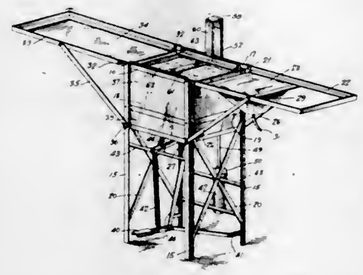
1. The combination with a band having slots at its free ends extending in the direction of the length of the band and of greater length than width, of a fastener formed from a flat metal strip and having prongs of less width than the length of said slots and adapted to be inserted through two registering slots to substantially fill such slots and to be bent over the juxtaposed portion of a band to extend laterally thereof and prevent relative longitudinal or lateral movement of said ends, and said band being deflected to form a head of double thickness of the strip and of substantially the same width as the band, and said prongs when bent over extending into proximity to the sides of the band.

1,475,247. EGG-CASE-FILLER MACHINE. HARVEY SEGUR and EDWARD H. DUDDY, Chicago, Ill., assignors to Asa B. Segur, doing business as A. B. Segur & Co., Chicago, Ill. Filed Aug. 22, 1921. Serial No. 494,296. 12 Claims. (Cl. 93—37.)

1. In a cell-case machine, a web-severing cutter, a punch and die arranged for punching the strip prior to the cutting, and a unitary and movable mounting for the punch and die whereby the punch and die may be adjusted in distance from the severing cutter without disturbing their relative positions and without disturbing any other portions of the machine.

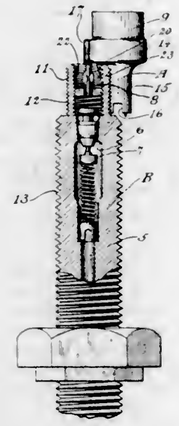
1,475,248. EGG-TREATING MACHINE. CLIFFORD C. SHAFER, Newark, N. J. Filed Feb. 23, 1922. Serial No. 538,529. 3 Claims. (Cl. 99—2.)

3. An egg treating apparatus comprising a body, a tank therein, wings hinged on opposite sides of said body, means for supporting said wings when extended, said means when released permitting the wings to fold against said body, means on said wings receptive of an egg tray, a tank midway said wings, a track section thereover,



and means for imparting a gradual uniform vertical motion to said track section relative to said tank in raising and lowering.

1,475,249. DEVICE TO UNSEAT TIRE VALVES. LLOYD B. SOLEMINK, San Francisco, Calif., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed July 18, 1921, Serial No. 485,533. Renewed Feb. 3, 1923. 7 Claims. (Cl. 152—12.)

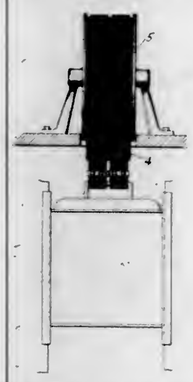


1. The combination with a pneumatic tire valve including a casing and a valve stem, of a cap for the casing including a projection adapted to engage the outer end of the casing, resilient means formed on the cap for engaging the inner surface of the casing and for holding the projection in intimate engagement with the outer surface of the casing and means carried by the cap for engaging the valve stem to hold the valve unseated.

1,475,250. INTERWOVEN FLAT-BELT-DRIVE APPARATUS. AUGUST SUNDH, Hastings-upon-Hudson, N. Y., assignor to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed Feb. 7, 1922. Serial No. 534,719. 3 Claims. (Cl. 74—67.)

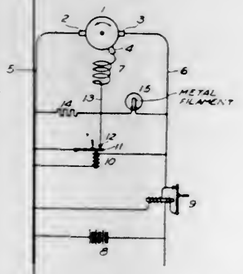
1. A traction sheave, an interwoven wire flat steel belt suspended over said sheave, and a counterweight on one

end of the belt, and an elevator car on the other end, and an annular ring larger in diameter than the traction



sheave, between the surface of the traction sheave and the surface of the belt.

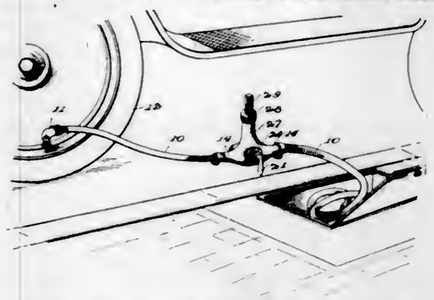
1,475,251. GENERATOR REGULATION. RAYMOND H. SULLIVAN, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 15, 1922. Serial No. 607,099. 3 Claims. (Cl. 171—229.)



1. The combination, with an electric generator having main brushes, a third or auxiliary brush and a field-winding of which one terminal is connected to the third brush, a resistor connecting the second terminal of the field-winding with one of the main brushes, and a vibratory regulator arranged to short-circuit said resistor intermittently in accordance with variations in a characteristic of the output of the generator, of a second resistor connecting said second terminal of the field-winding with the other main brush of the generator.

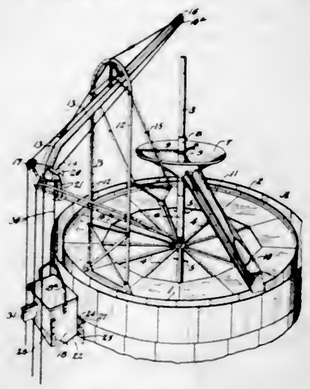
1,475,252. PRESSURE GAUGE. KNUTE SWANJORD, Balaton, Minn. Filed May 1, 1920. Serial No. 378,323. 1 Claim. (Cl. 152—11.5.)

A device of the class described comprising a valve casing, a seat formed in said casing, a valve body revolubly mounted in said seat and having three intercommunicating ports, a nozzle on said casing adapted to connect with a pressure source and having a passage leading into said seat, a second nozzle adapted to connect with the pressure receiving element and a passage in said second nozzle leading to said seat, said valve casing having a chamber in communication with said seat and said valve body having a vent communicating with the atmosphere; said ports and vent being so situated with relation to each other that flow of pressure fluid will take place through the passages from said first to said second nozzle, while said chamber connects with the atmosphere through said vent, when the valve body stands in one position; and that said passage in said first nozzle is closed and said chamber connects with the passage of said second nozzle,



while said vent is being closed, when the valve body stands in the second position, and with the valve body in the third position both of said passages as well as the chamber are closed.

1,475,253. CONCRETE ELEVATOR AND DISTRIBUTOR. HERAULT A. TRESTER, Milwaukee, Wis., assignor to Metal Forms Corporation, Milwaukee, Wis., a Corporation. Filed Apr. 29, 1921. Serial No. 465,403. 18 Claims. (Cl. 214—95.)

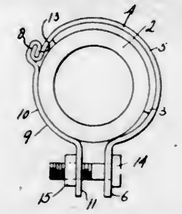


1. In a concrete hoist and conveyor, in combination, a hoisting bucket, an elevated derrick including a laterally extending runway, beneath one end of which the bucket is adapted to be elevated, a carrier on the runway, a hoisting cable connected with the bucket and extending longitudinally of the runway, said runway embodying a portion deflected in the direction of elevating movement of the bucket, and the hoisting cable being trained over the carrier so that the pressure transmitted to the carrier by the weight of the bucket in hoisting is prevented from moving the carrier along the runway until the bucket is lifted into co-operation with the carrier to shift the latter from said deflected portion on to the main portion of the runway.

1,475,254. PIPE-REPAIR CLAMP. WILLIAM CLEMMENS and JOSEPH WHITE, Philadelphia, Pa. Filed Dec. 4, 1922. Serial No. 604,697. 1 Claim. (Cl. 24—19.)

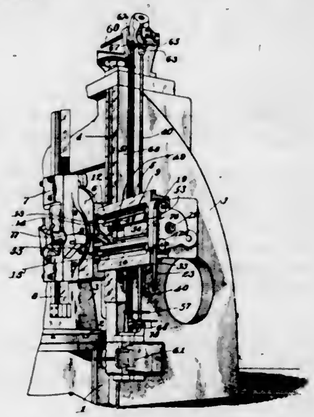
A pipe repair clamp comprising in combination, a large clamp member consisting of an arcuate body, an outwardly projecting flange along one longitudinal edge of said body, said flange having holes therein, and an outer back turned portion forming a guideway along the other

longitudinal edge of said body, a small or complementary clamp member consisting of an arcuate body, an inner back turned portion forming a guideway along one longitudinal edge of the last named body and adapted for coaction with the guideway of the larger clamp member by longitudinal or endwise sliding movement and an outwardly projecting flange along the other longitudinal edge of



the body of the small member, said flange having holes therein of larger diameter than the holes in the first named flange, a compressible packing for interposition between the larger clamp member and a pipe to which the device is attached, bolts inserted through the holes in the flanges and nuts threaded on said bolts whereby the flanged edges of the clamp members may be drawn toward each other.

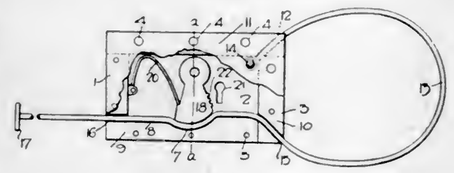
1,475,255. RAPID TRAVERSE AND FEED CONTROL FOR BORING MILLS. ALFRED TROSCH, Rochester, N. Y., assignor to Arthur H. Ingle, Rochester, N. Y. Filed May 4, 1920. Serial No. 378,737. 10 Claims. (Cl. 77—4.)



1. A boring mill, comprising a work table, a rail mounted in proximity thereto, a tool head movably guided on said rail, a tool spindle movably fitted in said tool head, operating connections for moving said tool head or said tool spindle selectively, means having an operating element movable with said tool head for controlling the movements of said tool head and of said spindle, and means borne by said head for manually adjusting and setting the same, said means embodying beveled pinions with stub shafts extending outward from the rail, to be engaged by an operating handle or tool.

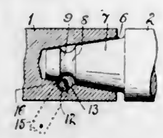
1,475,256. SHACKLE. ALBERT BELAIR, Montreal, Quebec, Canada. Filed Jan. 20, 1922. Serial No. 530,652. 2 Claims. (Cl. 70—24.)

2. A shackle comprising a casing, a rope having one end fastened in the casing and projecting outside one end to form a loop, a groove forming a rope-way through said casing into which the free end of said rope engages, a curvilinear depression in said rope-way, a gripping member pivotally mounted over said curvilinear depression, said gripping member having a grooved convex gripping



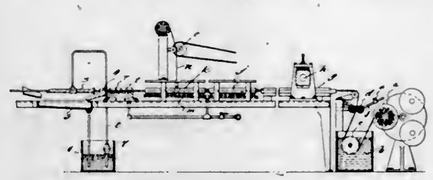
surface to engage the rope, a spring to press the gripping member against the rope and a key to engage the gripping member to swing the same so as to free the rope.

1,475,257. CONNECTER. VICTOR R. BOTTONE, Philadelphia, Pa., assignor of one-half to John S. McAleer, Philadelphia, Pa. Filed Mar. 30, 1921. Serial No. 456,845. 2 Claims. (Cl. 287—119.)



1. An electrical connecter comprising a part having a shank, a receiving part having a recess formed therein adapted to receive said shank in axial alignment, an annular shoulder formed upon said shank, a locking member rotatably mounted in said receiving part upon an axis extending at right angles to the longitudinal axis of the receiving part, and a cam surface upon the locking member adapted to engage said shoulder and force the shank longitudinally into the receiving part by a rotary movement of the locking member.

1,475,258. METHOD OF MANUFACTURING SOLDERED TUBE. HARRY W. BUNDY, Detroit, Mich. Filed Sept. 21, 1922. Serial No. 589,529. 9 Claims. (Cl. 113—33.)



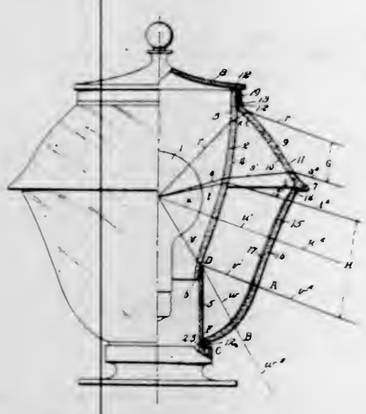
1. The method of manufacturing soldered tube which comprises the longitudinal moving of the tube in a substantially straight line and heating the moving tube to a relatively high heat independently of any heat derived from solder and then flowing a stream of solder onto the same and around the tube.

1,475,259. COMPOUNDED LIQUID FUEL AND METHOD OF PRODUCING THE SAME. LOUIS DU PLESSIS CLEMENT, Dover, Del., assignor to Kent County Oil Corporation, Leipsic, Del., a Corporation of Delaware. Filed May 24, 1921. Serial No. 472,275. 10 Claims. (Cl. 44—9.)

1. A liquid fuel for internal combustion engines and the like comprising a clear, colorless, homogeneous, stable

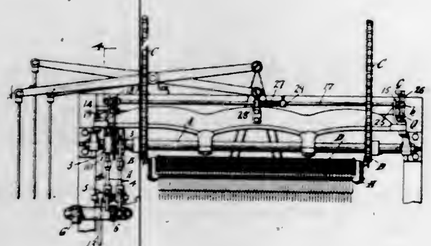
liquid having a flashing point of substantially 196° Fahr. and comprising toluol, kerosene and naphtha thoroughly agitated in an aqueous solution of aluminium sulphate, the toluol content being substantially twice that of the kerosene content.

1,475,260. ILLUMINATING APPLIANCE. WILLIAM A. DOREY, Newark, Ohio, assignor to Holophane Glass Company, Inc., New York, N. Y., a Corporation of New Jersey. Filed Oct. 31, 1919. Serial No. 334,643. 6 Claims. (Cl. 240—106.)



1. An illuminating appliance having an inner light transmitting refracting member having a dual lenticular effect, and an outer plural member, one part of which consists of horizontal refracting prisms and the other part of vertical corrugations.

1,475,261. LOOM. EDMUND F. DUNN, Yonkers, N. Y., assignor to Alexander Smith & Sons Carpet Company, Yonkers, N. Y., a Corporation of New York. Filed May 29, 1922. Serial No. 564,337. 5 Claims. (Cl. 139—9.)



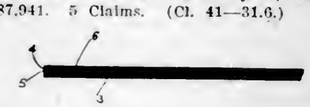
1. The combination with a loom for weaving tufted fabrics in which the tuft spool carriers are moved by an intermittently operated member, of a plurality of oppositely toothed ratchets mounted on said carrier-moving member, a rocking lever having pawls pivoted thereto arranged to engage said ratchets, a slide frame having means for swinging said pawls on their pivots to throw their ratchet-engaging ends into and out of engagement with said ratchets, and means for moving said slide frame from the side of the loom.

1,475,262. DOUBLE-BARRELED SHOTGUN. GEORGE O. FISHER, New York, N. Y.; Bessie M. Fisher, administratrix of said George O. Fisher, deceased, assignor to Bessie M. Fisher, Brooklyn, N. Y. Filed Feb. 28, 1920. Serial No. 362,056. 3 Claims. (Cl. 33—47.)



1. The combination with a double-barreled gun, of a rear sight disposed between the barrels at the breech end thereof and a front sight between the barrels at the muzzle end thereof, in line with the rear sight and disposed above the plane of a common tangent resting on the two barrels.

1,475,263. DUPLICATING ROLL. FREDERICK C. GOTTSCHALK, New York, N. Y. Filed July 27, 1921. Serial No. 487,941. 5 Claims. (Cl. 41—31.6.)



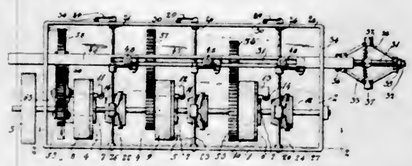
1. A duplicating roll comprising a backing of relatively strong fabric, a paper layer adhesively united thereto and a layer of duplicating composition on the paper layer.

1,475,264. TOOL FOR CALKING. HENRY G. GUNDLACH, Brooklyn, N. Y. Filed May 15, 1923. Serial No. 639,067. 1 Claim. (Cl. 114—224.)



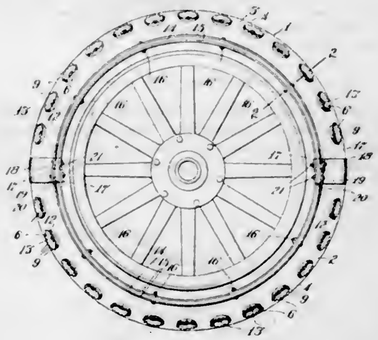
A tool of the character described comprising a handle, a rounded and upwardly extending enlargement formed on the handle and provided with an angularly disposed rectangular bore, a tool shank received into the bore, the head being also provided with a threaded angularly disposed opening communicating with the bore, and a screw in the opening and engaging the shank.

1,475,265. AUTOMATIC GEAR SHIFT AND SPEED CONTROL. HENRY R. HOFFMAN, Chicago, Ill. Filed Nov. 12, 1921. Serial No. 514,666. 2 Claims. (Cl. 74—97.)



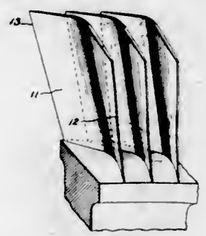
1. A device of the character described comprising a shaft adapted to be driven by the engine of a motor vehicle, a second shaft rotatably mounted in parallel relation to said first named shaft and adapted to be connected to the differential shaft of said motor vehicle, a plurality of clutches associated with said first named shaft, gears disposed on said second named shaft, one for each of said clutches and operatively connected thereto, a sliding cam shaft in parallel relation with said second named shaft, said cam shaft being provided with a slot extending longitudinally thereof, a plurality of cam members, one for each of said clutches engaged with the slot in said sliding shaft and arranged for longitudinal adjustment on said shaft, said cams being arranged to operate said clutches as said cam shaft is actuated, and means for moving said cam shaft as the speed of said second named shaft is varied.

1,475,266. TIRE PROTECTOR. WILLIAM A. JOHNSON, Chicago, Ill. Filed Jan. 16, 1922. Serial No. 529,681. 1 Claim. (Cl. 152—16.)



A device of the character described, comprising a protector of pliable material composed of a plurality of segments having tread portions and lateral wall portions, reinforcing flanges on the lateral wall portions, reinforcing bars for said flanges at the top and bottom thereof, means for preventing entrance of impurities into the joints of said segments, and connecting elements extending through said bars and means.

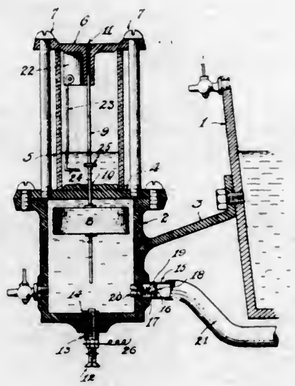
1,475,267. ELASTIC-FLUID TURBINE. OSCAR JUNGGREN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 12, 1922. Serial No. 574,511. 4 Claims. (Cl. 253—78.)



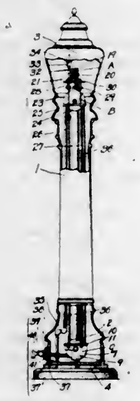
1. A nozzle diaphragm for elastic fluid turbines characterized by the fact that the entrance ends of the nozzle partitions are warped whereby elastic fluid discharged from the preceding bucket ring will enter the nozzles in stream lines parallel to the nozzle partitions.

1,475,268. OIL GAUGE FOR INTERNAL-COMBUSTION ENGINES. JULIUS E. KARL, CHARLES L. B. KARL, and JOSEPH D. KARL, Peoria, Ill. Filed July 27, 1920. Serial No. 399,402. Renewed Oct. 16, 1922. Serial No. 594,790. 15 Claims. (Cl. 123—146.5.)

13. A device of the nature described including a reservoir for attachment to a fluid container, a contact portion, and a float mechanism in said reservoir, the contact and float mechanism being parts of an electric circuit adapted for closing said circuit, and means suspended on a part of the device to automatically engage and suspend said float mechanism when the device is tipped out of its normal position.



1,475,269. AIR-HOSE PROTECTOR. OLIVER M. KING and ANDREW J. BROOKS, St. Joseph, Mo., assignors, by direct and mesne assignments, to The Standard Oil Company, a Corporation of Indiana. Filed Mar. 10, 1919. Serial No. 281,893. 2 Claims. (Cl. 299—77.)



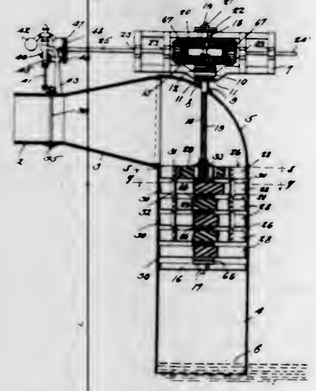
1. A device of the character described, comprising a hollow standard, a plate carried by the standard, guides connected to the plate, a pulley having fixed mounting on the plate, a pulley casing controlled by said guides, a hose pulley rotatable in the casing, a weight in the standard, a cable passing over the fixedly mounted pulley and connecting the weight and hose pulley casing, an inlet pipe, and a hose connected with the inlet pipe and run over the hose pulley.

1,475,270. SPRING LUBRICATOR. WILLIAM METZGER, New York, N. Y. Filed Dec. 10, 1921. Serial No. 521,352. 3 Claims. (Cl. 267—37.)



1. A cover for leaf springs comprising a bottom member, corrugated side members and a top adapted to be received and retained by the corrugations of the side members.

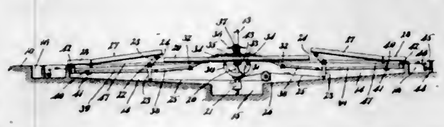
1,475,271. WATER POWER. GUSTAVE H. AHLBRECHT, Newark, Ohio. Filed Nov. 27, 1922. Serial No. 603,607. 3 Claims. (Cl. 253—16.5.)



1. In a device of the class described, a substantially vertical conduit; a frame located thereabove; a hollow shaft journaled in the frame; a second shaft rotatable in the hollow shaft; a driven shaft journaled in the frame and located substantially at right angles to the hollow shaft and the second shaft; vertically spaced beveled gears on the hollow shaft and the second shaft; a beveled pinion on the driven shaft and meshing with the beveled gears; means for supporting the hollow shaft for rotation and for endwise adjustment on the frame, and means for supporting the second shaft for rotation and for endwise adjustment on the frame, said means being adjustable longitudinally of the respective shafts, thereby to raise the beveled gear of the hollow shaft for accurate meshing with the beveled pinion, and to lower the beveled gear of the second shaft for accurate meshing with the beveled pinion; and superposed water wheels carried by the hollow shaft and the second shaft, the water wheels being located in the conduit and having blades, the blades of one wheel being inclined in a direction opposite to that in which the blades of the other wheel are inclined.

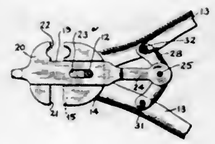
1,475,272. AUTOMATIC GATE-OPERATING MECHANISM. FRANK R. ASHLEY, Edgewater, Colo. Filed Jan. 4, 1922. Serial No. 526,933. 2 Claims. (Cl. 39—18.)

2. An improved automatic gate operating mechanism, comprising a roadway, a trough extending transversely of the gate, a shaft extending transversely of the trough and beneath the gate in its normal closed position, driving connections between the shaft and the gate for swinging the gate to open or closed position, an arm on said shaft extending into the trough, and provided with a weight, a quadrant located in said trough, a pawl pivotally mounted on said arm and adapted to engage with said quadrant to hold the weight in raised



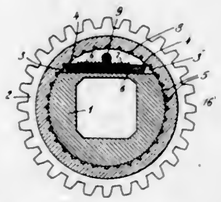
position, and the gate in open position, and means operable by the weight of a vehicle to release the pawl from the quadrant to allow the weight to return the gate to closed position.

1,475,273. HAND TOOL. WILLIAM A. BERNARD, New Haven, Conn., assignor to The William Schollhorn Company, New Haven, Conn. Filed Jan. 3, 1921. Serial No. 434,539. 14 Claims. (Cl. 86—22.)



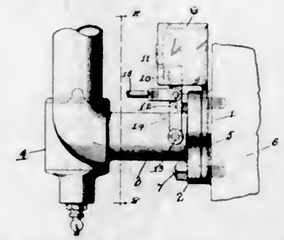
10. A band tool comprising two cooperating jaws, the outer jaw having a plunger thereon, the inner jaw having an opening therein for the passage of said plunger therethrough, means to close said jaws comprising a pair of handle members, a common pivot member for said handle members passing through said inner jaw, a pair of links pivoted together and to the inner end of said plunger, the other ends of said links pivotally secured to said handles respectively at points located between the first mentioned pivot member and the pivotal connection of the links with each other and the plunger.

1,475,274. CLICK BOX. HAROLD L. BLOOD, Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 25, 1919. Serial No. 279,130. 13 Claims. (Cl. 192—43.)



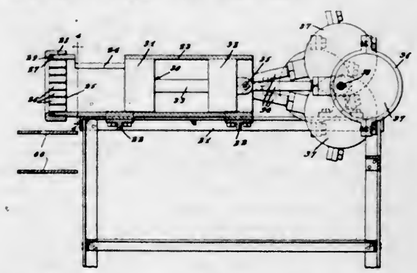
1. In a click box, the combination of a driven member adapted to be placed on a feed shaft or screw, a driving member rotatably mounted on the driven member, adjustable ratchet mechanism comprising reciprocating pawl means for transmitting motion from the driving member to the driven member, spring means for normally holding the ratchet mechanism in driving position, and a ring rotatably mounted concentrically on the driven member and serving when turned in one direction or the other to adjust the ratchet mechanism for transmitting motion from the driving member to the driven member in the direction in which the ring is turned.

1,475,275. LOCKING DEVICE FOR CARBURETORS. CORNELIUS R. BOWMAN and CHARLES E. YATES, Allentown, Pa. Filed Dec. 22, 1921. Serial No. 524,204. 1 Claim. (Cl. 70—124.)



A valve lock for internal combustion engines comprising a plate having parallel plane faces and an orifice adapting a part of said plate to be used as a gasket in association with the junction of the intake fuel conduit and the engine, a housing on said plate adapted to receive the operative lever of a valve in the intake fuel conduit and locking means in said housing adapted to coact with said operative lever when in said housing to prevent the withdrawal of same.

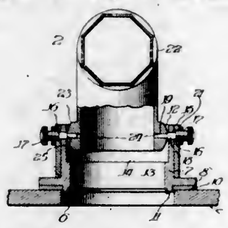
1,475,276. POTATO CUTTER. JOHN A. CANFIELD, Collins, Miss., assignor of one-half to Mac-Q Company, Inc., Collins, Miss. Filed May 22, 1922. Serial No. 562,712. 1 Claim. (Cl. 146—169.)



In a device of the class described, a frame, a receiver on the frame, a die carried by the receiver, the receiver being provided with an opening disposed adjacent to the die, a plunger mounted for reciprocation in the receiver, the plunger comprising a pressure head, a guiding head, and a reduced stem connecting the heads, the thickness of the pressure head being less than the length of the opening, thereby to give access to the space between the head, when the plunger is advanced toward the die, and means for imparting reciprocation to the plunger.

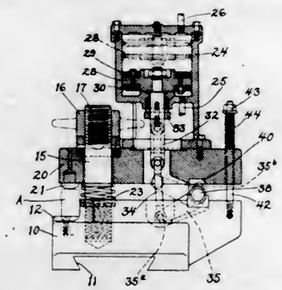
1,475,277. TONE-ARM SUPPORT. FOREST CHENEY, Chicago, Ill., assignor to Cheney Talking Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 15, 1918. Serial No. 217,316. 7 Claims. (Cl. 274—23.)

1. In a sound reproducing machine, means for supporting a tone arm therein, said means including a fixed collar secured to a cabinet and having a flange therearound, a movable collar surrounding said fixed collar and having a bearing on the flange, said collar having horizontally disposed apertures therein, means carried by the movable collar and passing through said apertures for supporting the tone arm, said means including screws having a plurality of shoulders formed in the length thereof and with a plurality of portions of varying diameters, the largest diameter adapted to engage the collar and the smallest diameter adapted to engage the tone arm, and an intermediate portion adapted to support the weight of the arm on the fixed



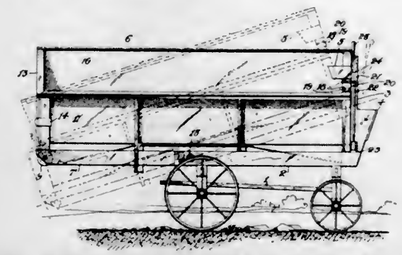
support, the shoulders defining the smallest diameter abutting said tone arm to move the same bodily with respect to the support as said screws are manipulated.

1,475,278. PNEUMATIC TOOL HOLDER. LYNDON C. COLE, Hamilton, Ohio, assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 20, 1921. Serial No. 493,986. 3 Claims. (Cl. 82—36.)



1. A tool holder comprising in combination, a tool support forming the lower fixed jaw of a tool clamp, an upper movable jaw cooperating therewith, means to flexibly connect said movable jaw to the tool support, a bell-crank lever between the tool support and the movable jaw, and pneumatic means to oscillate said bell-crank lever to its extreme position to clamp a tool mounted within said holder, said bell-crank being so formed that when moved to clamping position the movable jaw is held in a self-locking position.

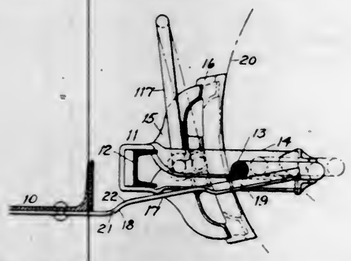
1,475,279. DUMP-HEADER BARGE. JOSEPH CRANE, Larned, Kans. Filed Feb. 11, 1922. Serial No. 535,850. 1 Claim. (Cl. 298—17.)



In a structure of the character described, a frame, vertically disposed standards at the forward end thereof, a foot support carried by said standards, a body pivotally carried by said frame for rearward tilting to a dumping position and having its forward end adjacent said stand-

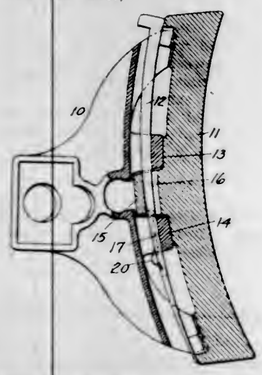
ards when in an operative position, a seat carried by the front wall of said body and behind said standards, a keeper carried by the front wall of said body and to one side of said seat, a vertically disposed socket mounted adjacent the lower end of one of said standards, and a latch formed of a resilient rod having its lower end fitting into said socket and its upper end portion extending above said body, the extended upper end portion being bent to provide a rearwardly extending bill for engaging said keeper and releasably holding said body against tilting.

1,475,280. BRAKE BEAM. SETH A. CRONE, East Orange, N. J. Filed May 3, 1921. Serial No. 466,609. 6 Claims. (Cl. 188—213.)



5. In a car-truck having a spring-plank and a trussed brake-beam supported at its ends by hangers, in combination, tramway-bars secured to the spring-plank and thence inclining upwardly and outwardly below the end portions of the truss-rod and being free at their outer ends and directly receiving and serving as guides for said rod, said bars being of plate metal and flat at their lower portions and convexed upwardly at their upper portions to present transversely rounded surfaces to the truss-rod.

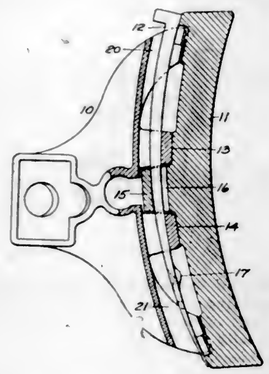
1,475,281. LOCKING KEY FOR BRAKE SHOES. SETH A. CRONE, East Orange, N. J. Filed July 11, 1921. Serial No. 483,651. Renewed May 19, 1923. 12 Claims. (Cl. 188—243.)



1. A brake-shoe key of the usual bowed shape having, at a point to pass below the brake-shoe lug, a downwardly depending tongue slit from the body of the key and bowed outwardly in its lower portion beyond the convex face of the key to yieldingly resist the passage of the key through said lug.

1,475,282. LOCKING KEY FOR BRAKE SHOES. SETH A. CRONE, East Orange, N. J. Filed Feb. 16, 1922. Serial No. 536,843. 10 Claims. (Cl. 188—243.)

5. A brake-shoe key of curved type adapted to standard brake-shoe heads and brake-shoes and having its lower portion slit vertically to form an elongated vertical strip or tongue whose middle portion is bowed outwardly from the concave face of the key to form a hump to pass below



and become projected beneath the lower brake-head lug said hump having a curved apex and sloping upper and lower sides.

1,475,283. RAILWAY BRAKE BEAM. SETH A. CRONE, East Orange, N. J. Filed May 12, 1922. Serial No. 560,339. 3 Claims. (Cl. 188—232.)



2. A brake-beam comprising a compression member, a tension member, a strut extending between said members and having an apertured forward end portion and parallel sides and a support or bracket for a third point suspension having an apertured back plate member and forwardly projecting parallel arms and secured at said back to the forward end of said strut, the securing means being a headed pin applied through said apertures in said back member and the forward end of the strut, said support or bracket being in one integral stamping of forged metal and said arms having apertures formed therein for the securing means for the suspension member and being recessed upwardly and backwardly in their lower sides to receive and afford seats for the tension member, said recesses being partly closed below the tension member by extensions projecting forwardly from the lower back portion of the support or bracket and below said tension member.

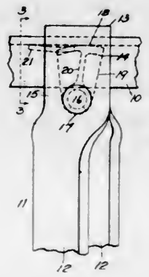
1,475,284. LOCKING KEY FOR BRAKE SHOES. SETH A. CRONE, East Orange, N. J. Filed June 12, 1922. Serial No. 567,579. 3 Claims. (Cl. 188—243.)

3. A locking key of the character described for brake shoe heads and brake-shoes of standard construction, said key being of elongated and curved form and of stock which is tapered in thickness and in width from the head to the entering end of the key, said key having smooth front and back surfaces, allowing, as to themselves, the key to freely pass to and from operative position, and said key having a head at one end and in its lower or entering portion a longitudinally elongated slot at the middle portions of the sides of which the side edge portions of the key are expanded outwardly in opposite directions to form rounded lateral projections adapted to be sprung inwardly in applying the key and thereafter to spring outwardly below the lower brake-head lug, for locking the key in position, said side edge portions converging downwardly on concave lines from the apexes of said projections to facilitate the positioning of the key and forming



rather abrupt angles above said shoulders to aid in resisting the withdrawal of the key from its operative position.

1,475,285. RAILWAY BRAKE BEAM. SETH A. CRONE, East Orange, N. J. Filed July 31, 1922. Serial No. 578,595. 12 Claims. (Cl. 188—231.)

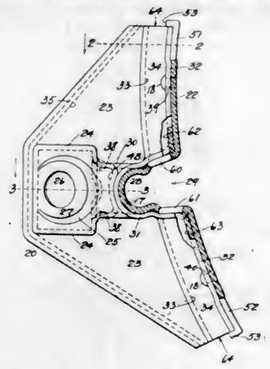


5. In a brake-beam having a compression member and a strut connected therewith, means for binding the compression member and strut together, comprising a swinging wedge device pivotally mounted at one end on and carried by the strut and having an arcuate surface at its other end to be driven against the compression member with binding effect, said arcuate surface extending lengthwise of the compression member and tangentially to the inner longitudinal surface of the web of said member, and said device being adapted for lateral swinging movement at its arcuate initially free end and to be given its operative position by blows directed laterally against one edge of said end.

1,475,286. RAILWAY-CAR BRAKE. SETH A. CRONE, East Orange, N. J. Filed Oct. 20, 1922. Serial No. 595,744. 28 Claims. (Cl. 188—236.)

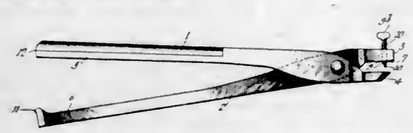
5. A brake-shoe head as defined in claim 1, in which the face-plate is riveted to said body portion and has

flanges at its upper and lower ends and along its sides to closely receive and enclose the upper, lower and side



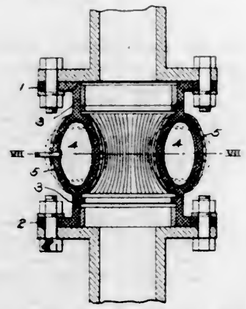
edges of the seat for said plate afforded by said vertical members.

1,475,287. SHOE-SOLING TOOL. PATRICK J. DEVER, Freeland, Pa. Filed Sept. 5, 1922. Serial No. 586,277. 2 Claims. (Cl. 1—47.)



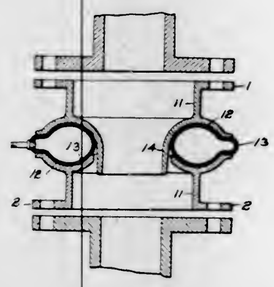
2. A tool of the class described comprising a pair of pivotally connected jaws arranged in superposed relation, the upper jaw having transversely spaced nailing and punching elements extending from the outer to the inner face thereof and adapted to be adjusted therein, the punching element being arranged slightly in advance of the nailing element, the other jaw having its free end beveled on its outer face and positioned to form a clinching member for the nailing element, one of said jaws having its inner face serrated to form a crimper.

1,475,288. EXPANSION JOINT. AUGUST P. DIESCHER, Pittsburgh, Pa., assignor to S. Diescher & Sons, a Partnership consisting of Samuel E. Diescher and August P. Diescher. Filed Jan. 16, 1922. Serial No. 529,698. 8 Claims. (Cl. 285—90.)



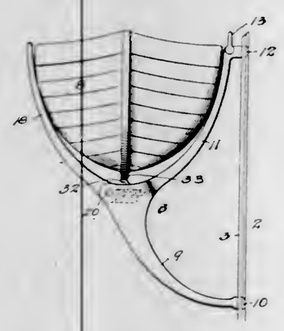
2. A joint or section consisting of end flanges and a wall connecting the flanges, said wall being provided with an annular chamber having yielding side walls, and means for applying pressure within said chamber, to cause a lateral movement of the side walls thereof.

1,475,289. EXPANSION JOINT. AUGUST P. DIESCHER, Pittsburgh, Pa., assignor to S. Diescher & Sons, a Partnership consisting of Samuel E. Diescher and August P. Diescher. Filed Jan. 16, 1922. Serial No. 529,699. 6 Claims. (Cl. 285—90.)



6. A joint or coupling having a length less than the distance between the members of a fluid conductor to be connected, having in combination annular flanges, a shell intermediate said flanges, a portion of the wall of said shell being adapted to be peripherally expanded to increase the length of the coupling.

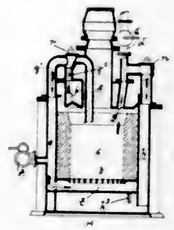
1,475,290. BOAT-LAUNCHING DEVICE. CHARLES F. ELLISON, Cristobal, Panama, Canal Zone, and EDWARD F. BEYER, New Orleans, La. Filed Sept. 15, 1922. Serial No. 588,326. 12 Claims. (Cl. 9—22.)



1. A boat launching device having a movable member and retaining means for holding said member in operative position for supporting a boat, and locking means carried by the cradle and in contact with the boat held in locking position by the weight of the boat, and an automatic unlocking device for the bolt operative upon the release of the bolt from the force of gravity of the boat.

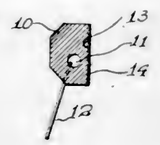
1,475,291. SUCTION GAS PLANT. GUSTAV ERDBRÜGGER, Bad Oeynhausen, Germany, assignor, by mesne assignments, to Albert Weber, New York, N. Y. Filed Sept. 9, 1922. Serial No. 587,209. 3 Claims. (Cl. 48—118.5.)

1. In a suction gas plant, a gas generating chamber having a grate, a steam generating cup, an air chamber communicating with said cup, valve controlled means for controlling communication of the evaporation cup either with the space below the grate or the top of said gas generating chamber, a gas purifying chamber, valve controlled means for controlling communication of the gas generating chamber with the purifying chamber



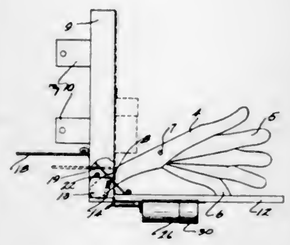
either from below or above the grate thereof and a collecting chamber communicating with said purifying chamber.

1,475,292. PICTURE HANGER. JUDSON H. FITZ GERALD, Quantico, Va. Filed Nov. 28, 1922. Serial No. 603,794. 4 Claims. (Cl. 40—145.1.)



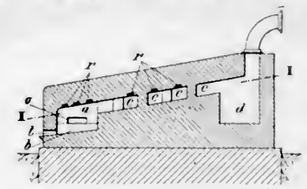
1. A picture hanger consisting of an integral body having a passage to receive a picture cord and a layer of adhesive material on one face of said body whereby it may be attached to a wall.

1,475,293. DIRECTION INDICATOR. VICTOR M. FOWLER, Spokane, Wash. Filed Apr. 18, 1922. Serial No. 554,731. 2 Claims. (Cl. 116—41.)



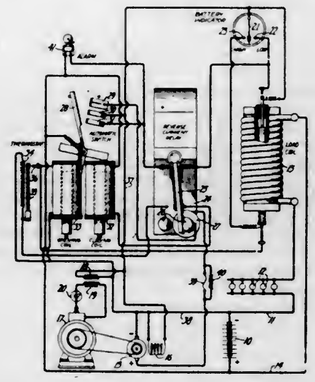
1. The combination in a foldable indicator with an open housing, of a slotted closure device having a pivotal connection at the lower end of said housing, a main blade bodily movable with said closure device and pivoted thereto, intermediate blades pivoted on said main blade, one of said intermediate blades having a sliding pivotal connection with the closure device, means for limiting the movement of the main blade with relation to the closure device, and means for limiting the swinging movement of the closure device.

1,475,294. PROCESS FOR THE DIRECT RECOVERY OF METALLIC ANTIMONY. ANTONIN GERMOT, Asnieres, France. Filed Sept. 11, 1922. Serial No. 587,450. 2 Claims. (Cl. 75—17.)



1. A process for the direct recovery of metallic antimony, from its sulphide, comprising heating the sulphide, out of contact with oxygen, to its temperature of dissociation, and separating out and collecting the metallic antimony by gravitation.

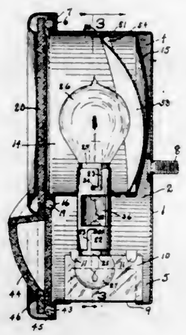
1,475,295. ELECTRIC SYSTEM. BENJAMIN E. GETCHELL, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation of Connecticut. Filed July 22, 1922. Serial No. 576,705. 14 Claims. (Cl. 290—30.)



3. In an electric system in combination a battery, a shunt wound dynamo electric machine, a prime mover connected thereto, an armature circuit including terminals of an automatic switch and the battery, a circuit including terminals of said switch and the battery to fully energize the field winding of said dynamo, means including a coil to close said switch terminals to complete said circuits, a set of contacts closed in response to a predetermined discharged condition of the battery, and an operating circuit including the field winding, the coil and the contacts to partially energize the field winding and to energize the coil to close the terminals, the closure of the terminals completing said field and armature circuits and shunting the soil and contacts.

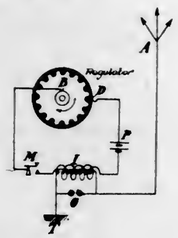
1,475,296. SIGNAL LAMP. CHARLES E. GODLEY, Detroit, Mich., assignor to Edmunds & Jones Corporation, Detroit, Mich., a Corporation of New York. Filed June 24, 1922. Serial No. 570,670. 7 Claims. (Cl. 240—46.)

1. In a signal lamp, the combination of a case, a cover therefor comprising two lensees and a frame to secure them to the case, a cylindrical shell mounted in the case, a connector tube mounted in said shell and having an aperture outside the shell, a light bulb mounted in each end of the connector tube opposite said lenses and having a central contact at the inner end of its base, an insulating plug mounted in one wall of the case, a pair of contacts extending therefrom into the



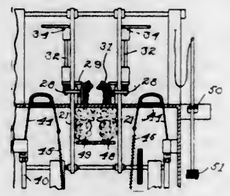
connector tube to engage the contacts on the light bulbs, and conductors connecting to the contacts mounted in said plug.

1,475,297. WIRELESS SELECTION SYSTEM. ROBERT BENEDICT GOLDSCHMIDT, Paris, France. Filed June 25, 1920. Serial No. 391,789. 7 Claims. (Cl. 250—8.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



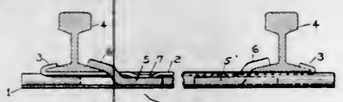
1. A wireless telegraphy system comprising a transmitting station with a regulator to ensure a regular and uniform succession of trains of waves and a receiving station with a regulator to cause the receiver to come into operation only during the time of transmission of such trains.

1,475,298. BOOT-BLACKING MACHINE. SALVATORE GUGLIELMELLO, Worcester, Mass. Filed Oct. 18, 1922. Serial No. 595,423. 5 Claims. (Cl. 15—97.)



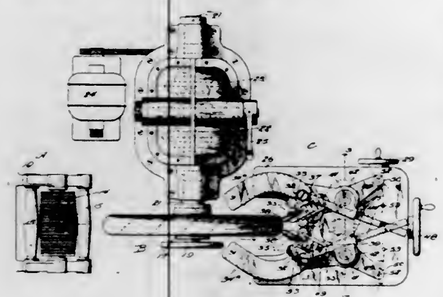
1. In a shoe polishing machine, the combination of a main shaft, means for constantly operating said shaft, a polishing cloth, a substantially horizontal lever to which one end of the polishing cloth is attached, a spring for connecting the other end of the polishing cloth with a stationary part of the machine, and a cam on said main shaft on which the lever rests for oscillating said lever to draw the cloth over a shoe placed under it.

1,475,299. RAILROAD TIE. PATRICK J. HARRIGAN, Chicago, Ill. Filed May 5, 1923. Serial No. 636,803. 5 Claims. (Cl. 238—66.)



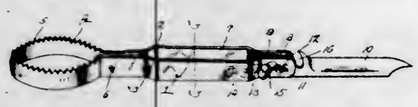
1. A metallic railroad tie having bent over side portions with rail engaging steps at each end and inner rail locking members slidably mounted upon the tie under the bent over portions, said bent over portions adapted to be engaged with and secure said locking members upon the tie.

1,475,300. CORD TIRE AND METHOD OF MAKING SAME. WILLIAM B. HARSEL, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 15, 1918. Serial No. 244,980. 30 Claims. (Cl. 154—14.)



1. A method of manufacturing tires which consists in applying a fabric to a mandrel, revolving the mandrel in one direction and simultaneously moving inwardly and radially over one side of the mandrel a forming element, and then reversing the direction of rotation of the mandrel and moving the forming element inwardly and radially over the other side of the mandrel.

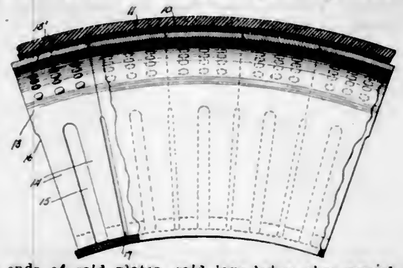
1,475,301. KNIFE. RUDOLPH C. HARTLEB, Cambridge, Md., assignor of one-half to Emanuel Reiner, Baltimore, Md. Filed July 18, 1921. Serial No. 485,489. 4 Claims. (Cl. 30—10.)



1. In a device of the class described, a member having parallel extensions, a slotted blade fitted between said extensions, a pivot pin passing through the extensions and the slot, said blade having a longitudinal notch aligned with the slot, and a bolt passing through the extensions and adapted to engage in the notch for locking the blade in open position, said blade having a second notch adapted to receive the bolt when the blade is in closed position, said bolt adapted to clamp the extensions upon the blade to hold the same in closed position.

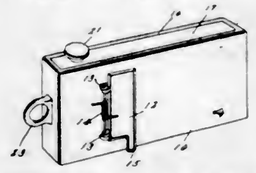
1,475,302. TIRE ARMOR. LEVI HITCHCOCK, Meridale, N. Y. Filed Mar. 21, 1921. Serial No. 453,914. 1 Claim. (Cl. 152—18.)

The combination with a tire shoe, of a series of independent armor plates arched to conform to the configuration thereof and arranged therein in engaging relation with each other to produce a continuous armor throughout the tread surface of the shoe, spaced legs formed at



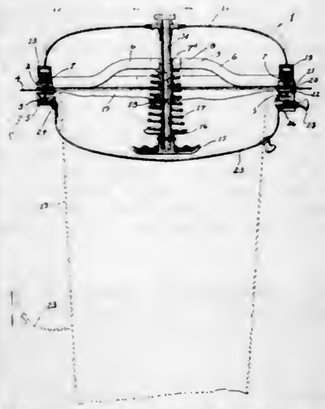
the ends of said plates, said legs being also spaced inwardly of the edges of said plate and said legs terminating in the bead of said shoe, substantially as described.

1,475,303. MEMORANDUM DEVICE. FRED S. JENSEN, New Richland, Minn. Filed Oct. 23, 1920. Serial No. 419,016. 1 Claim. (Cl. 281—7.)



A memorandum device comprising a casing having an opening in one face thereof and an opening in one side edge, a frame removably received within the casing and closing the side opening, said frame including side bars and end bars and a platen connecting the side bars and said platen being located beneath the opening in the face of the casing, paper receiving rollers removably positioned in bearings provided in the side bars, whereby a strip of paper may be passed between the face opening and platen and a tensioning spring secured transversely across the platen and having its opposite ends entending for contact with the rollers.

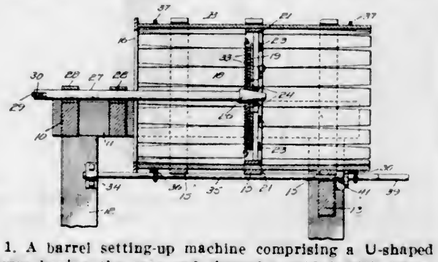
1,475,304. INFLATING MECHANISM FOR AIRCRAFT. HERMAN T. KRAFT, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 23, 1920. Serial No. 412,122. 3 Claims. (Cl. 244—31.)



1. An inflation mechanism for aircraft comprising a valve-supporting frame provided with a central opening, a slotted sleeve mounted in the opening of the frame, a

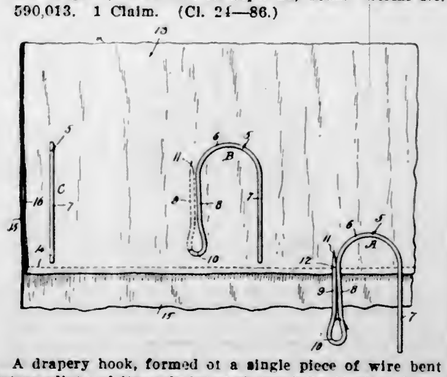
valve member seated upon the frame, a tubular member secured to the valve member slidably disposed within the sleeve, a pin secured to the tubular member extended through the slot in the sleeve, and a spring mounted about the sleeve to engage the frame, and operatively connected to the tubular member whereby the valve is maintained seated upon the frame.

1,475,305. BARREL-SETTING-UP MACHINE. ROBERT J. MCCLENNY, East Palatka, Fla. Filed Mar. 14, 1922. Serial No. 543,551. 2 Claims. (Cl. 147—1.)



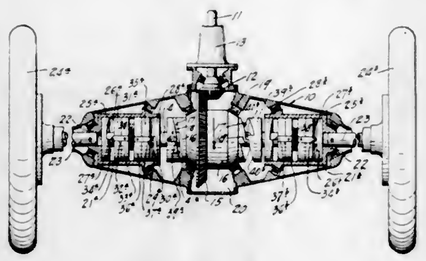
1. A barrel setting-up machine comprising a U-shaped frame having the rear end thereof provided with transverse sill members, oppositely disposed aligning sets of inwardly extending spaced brackets, each set secured to the side bars of the frame at the top thereof, a vertically disposed circular combined stave retainer and barrel body former secured to each pair of aligning brackets, a plurality of supporting arms fixed to said sill members and extending towards the front end of the frame, a vertically disposed apertured disk fixed to the front ends of said arms and arranged within an intermediate former, spring controlled radially shiftable stave clamping elements slidably connected to said disk and cooperating with said intermediate former, a plunger rod slidably supported by said sill members, extending towards the front of the frame and having a conoidal-shaped front end operating through the aperture of said disk to shift said elements to clamping position, means connected with said rod and operated from the front of the frame for shifting the rod to and from operative position, a winding shaft supported from one side of said frame, and a pair of spaced flexible members adapted to be looped around the end portions of the assembled staves and anchored at one end to the side of the frame opposed to the winding shaft-supporting side, said flexible members being windable on said shaft for bending the staves at the end portions thereof.

1,475,306. DRAPERY HOOK. JAMES W. MCGHEE, Los Angeles, Calif., assignor of one-half to Edward C. Jinks, Los Angeles, Calif. Filed Sept. 23, 1922. Serial No. 590,013. 1 Claim. (Cl. 24—86.)



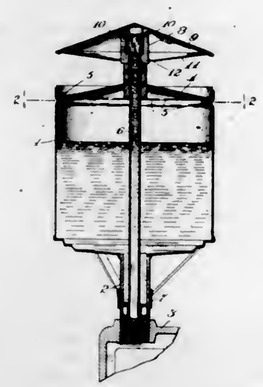
A drapery hook, formed of a single piece of wire bent intermediate of its ends into substantially U shaped formation to provide an arch, a hook end and a shank portion, the end of the shank portion being bent to form a spring loop, and an arm extending upwardly from the loop disposed along the outer edge of said shank and terminating adjacent the junction between the shank and arch, the extreme end of the arm being pointed.

1,475,307. DIFFERENTIAL DRIVE FOR MOTOR VEHICLES. JAMES L. MAPES, Jersey Shore, Pa. Filed Oct. 18, 1922. Serial No. 595,314. 8 Claims. (Cl. 74—7.)



1. A driving mechanism for motor vehicles including a longitudinally shiftable driving shaft, means for driving the shaft in opposite directions including a gear wheel loosely mounted upon the shaft but held from longitudinal movement, the gear wheel having means whereby to shift the driving shaft longitudinally in one direction or the other as the gear wheel is rotated in one direction or the other, laterally disposed driven shafts, a pair of oppositely and alternately operated ratchet mechanisms connecting each driven shaft with the driving shaft, and means operated by the longitudinal movement of the driving shaft rendering inoperative the ratchet mechanisms of the respective driven shafts previously operated.

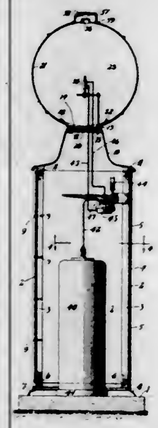
1,475,308. RADIATOR FOR INTERNAL-COMBUSTION ENGINES. SCOTT J. MATTHEWS, Port Clinton, Ohio, assignor to George A. True, trustee, Port Clinton, Ohio. Filed Feb. 19, 1919, Serial No. 277,990. Renewed Sept. 20, 1922. Serial No. 589,488. 7 Claims. (Cl. 123—174.)



1. The combination with the water-jacket of an internal combustion engine, of a receptacle disposed above the same and communicating therewith and adapted to be partially filled with water, a pipe extending from substantially the highest point in said water jacket to a point above the top of the receptacle, and a plurality of sur-

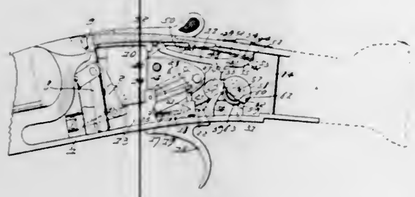
faces over which water ejected from the upper end of said pipe is adapted to flow successively into said receptacle, said surfaces arranged to cause the water to flow in a zig-zag course to radiate heat absorbed from the engine.

1,475,309. HIGHWAY SIGNAL. ELOF H. MEDÉN Short Hills, N. J., assignor to American Gasaccumulator Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Feb. 2, 1921. Serial No. 441,740. 4 Claims. (Cl. 240—11.)



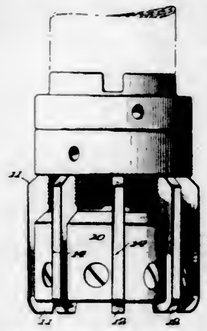
1. A highway signal comprising a housing including a base portion at its lower end and a neck portion at its upper end, the sides of the said housing terminating a short distance above the upper side of the said base portion to form a passageway leading into the said housing, and the upper end of the said neck portion being open, a signal head secured to the upper end of the said neck portion, said signal head being provided with an opening in its upper side, and screens within the last mentioned opening and the opening in the upper end of the said neck portion.

1,475,310. TRIGGER MECHANISM AND SAFETY DEVICE THEREFOR. ELMER E. MILLER, Millersburg, Pa. Filed Apr. 26, 1922. Serial No. 556,724. 24 Claims. (Cl. 42—42.)



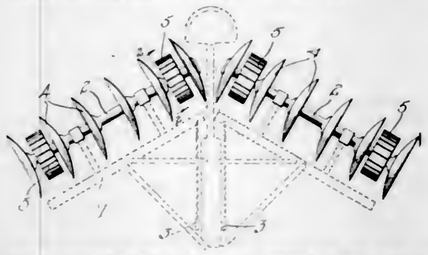
1. In a single trigger mechanism for double barrel guns, a breech casing, a pair of sears, one for each barrel, a trigger, a sear trip pivotally mounted upon the trigger for transverse oscillation from a position between the sears to a position beneath either sear, a longitudinally movable setting slide mounted upon the breech casing, an oscillatable member mounted within the breech casing and having an arm operatively connected to the sear trip to shift the sear trip in one direction or the other, and an operative connection between the setting slide and said member to oscillate the latter.

1,475,311. REAMER. FRANK P. MILLER, Meadville, Pa. Filed Dec. 14, 1922. Serial No. 606,888. 2 Claims. (Cl. 77—72.)



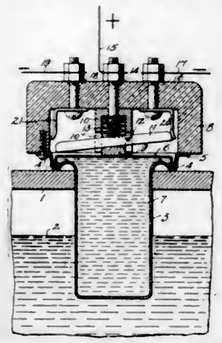
1. A reamer blade having a rounded lead and a tapered land merging into the cutting edge of the lead.

1,475,312. ATTACHMENT FOR DISK HARROWS. THERON D. MORAN, Dillon, Mont. Filed Sept. 5, 1922. Serial No. 586,228. 1 Claim. (Cl. 55—30.)



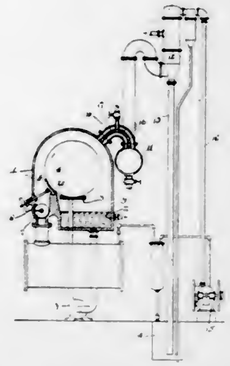
The combination with a harrow having shafts and concavo convex disks carried by said shafts, of split wheels mounted on said shafts and being disposed between certain of said disks, said wheels consisting of two separable halves, a bearing box carried by each half, and bolts removably securing the halves of said wheels together, whereby said wheels can be readily assembled or disassembled from the shafts without the necessity of first disassembling the disks from the shafts.

1,475,313. CIRCUIT CONTROLLER. ALLEN G. NEWHARD, Allentown, Pa. Filed Sept. 24, 1920. Serial No. 412,577. 2 Claims. (Cl. 200—83.)



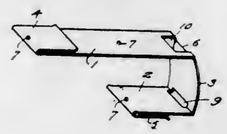
1. A thermostatic device comprising a receptacle of spun metal, liquid within the receptacle, a disk-shaped cover for one end of said receptacle adapted to be connected thereto, a flange on said receptacle, an insulating terminal base attached to the flange portion and having a bore therein, an electrical switch within the bore, a plug co-operatively related to the switch and bearing against the disk, electric terminals within the base, one of which is adapted normally to be connected to the switch, and a spring back of the switch adapted to hold it in normal position, said switch adapted to be actuated from normal position when the liquid within the receptacle expands.

1,475,314. METHOD OF AND APPARATUS FOR EVAPORATING LIQUIDS. MARTIN J. O'BOYLE, Cleveland, and EDWARD C. HOLTON, Olmsted Falls, Ohio, assignors to The Sherwin Williams Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 12, 1918. Serial No. 228,166. 4 Claims. (Cl. 159—47.)



1. In a method of the character described, the steps comprising evaporating a fluid in a vacuum chamber and then removing suspended material from the evolved vapor by subjecting it to the entraining action of a transversely directed vapor screen.

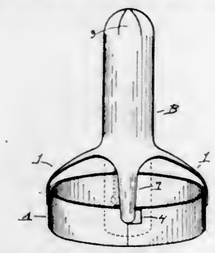
1,475,315. TAG OR LABEL HOLDER. CHARLES QUIN, Ottawa, Kans. Filed June 22, 1922. Serial No. 570,055. 11 Claims. (Cl. 40—11.)



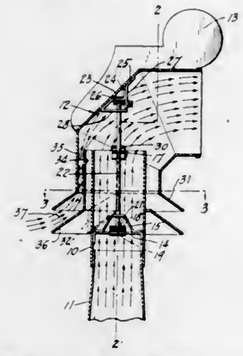
1. A label holder embodying a pair of relatively spaced leaves and an intermediate section from which the leaves extend in one direction, the free ends of the leaves being provided with clips.

1,475,316. CULINARY UTENSIL. VICTOR E. RANDALL, Battle Creek, Mich., assignor to Walter S. Clemence, Battle Creek, Mich. Filed July 19, 1922. Serial No. 576,132. 2 Claims. (Cl. 107—5.)

1. In an article of the class set forth, the combination with a hollow handle member having a series of outspread downwardly extending legs, and a circular band blade attached at its upper edge to the free ends of said legs, of a concentric tubular blade slitted at its upper end and adapted to seat in said handle member, said tubular blade near its cutting end being formed with oppositely disposed vertical slots and a plunger carried within the lower end of said blade and having lugs adapted to extend through said slots and permit said plunger to be reciprocated in said cylindrical blade, as and for the purpose set forth.

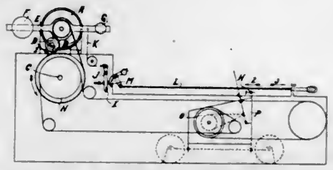


1,475,317. VENTILATOR. JAMES K. ROBINSON, Little Rock, Ark. Filed Aug. 23, 1922. Serial No. 583,827. 2 Claims. (Cl. 98—3.)



1. A ventilator comprising a draft member, a cowl revolubly mounted upon and surrounding the upper end of said draft member and provided at its lower end with spaced frustro-conical flanges, a fresh air duct carried by the cowl upon the interior thereof and terminating in approximate alignment with the upper end of the draft member, and vanes connecting said frustro-conical flanges and forming an induction port communicating with said fresh air duct, said induction port being directed to windward by the normal operation of said cowl, the inner wall of said fresh air duct paralleling the wall of said draft member in spaced relation thereto.

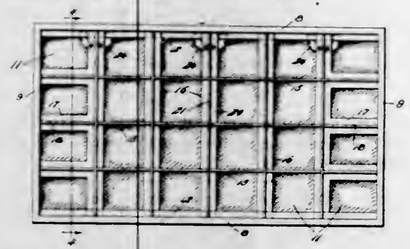
1,475,318. SPINNING MULE. RENÉ ROTH, Mulhouse, France, assignor to Societe Alsacienne de Constructions Mecaniques, Mulhouse (Haut-Rhin), France. Filed Nov. 16, 1922. Serial No. 601,360. 4 Claims. (Cl. 118—21.)



1. In a spinning mule driven from a continuously rotating motion shaft or individual motor, the combination of progressive declutching or slip-providing mechanism interposed between the motion shaft or the individual motor and the mule driving shaft, with regulatable means carried by the mule carriage for operating this mecha-

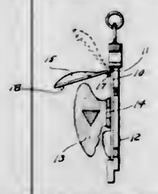
nism so as to declutch the mule driving shaft at the end of the return movement of the carriage, and so as to progressively re-engage the said driving shaft at the beginning of the outward run of the said carriage, and with hand operated means for actuating this mechanism at any moment so as to stop or to start the spinning mule.

1,475,319. JEWELRY TRAY. GEORGE C. RUECKERT, Providence, R. I. Filed Nov. 8, 1922. Serial No. 599,661. 2 Claims. (Cl. 211—28.)



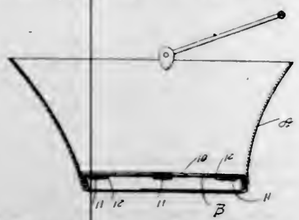
1. In a jewelry tray, a rectangular box having walls, and a floor secured to the walls, strips upon two opposite walls extending above the floor, a retaining frame comprising longitudinal bars and intersecting transverse bars, said transverse bars being provided with slots in their ends adapted to loosely receive one of the strips, and having their opposite ends resting upon the other strip, and locking plates pivotally mounted upon the transverse bars adjacent their ends slidably engaging the second strip.

1,475,320. EMBLEM. ALBERT I. RUSSELL, Providence, R. I., assignor to Irons & Russell Company, Providence, R. I., a Corporation of Maine. Filed Dec. 14, 1922. Serial No. 606,929. 3 Claims. (Cl. 40—1.5.)



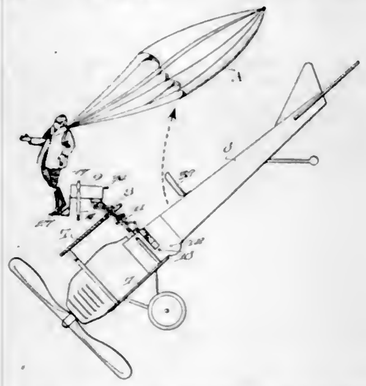
1. A badge comprising a base-plate shaped to produce the desired significance, a pair of wings hinged on their inner edges to said plate and normally extended to lie thereagainst, said hinges being set adjacent each other to permit the wings to swing inwardly toward each other to expose the underlying portion of the base-plate and the under side of the wings to exhibit symbols which may be mounted on said exposed surfaces.

1,475,321. REPAIR BOTTOM OR PLATE. GEORGE E. RUSSELL, Hamilton, Ohio. Filed June 15, 1922. Serial No. 568,656. 2 Claims. (Cl. 220—68.)



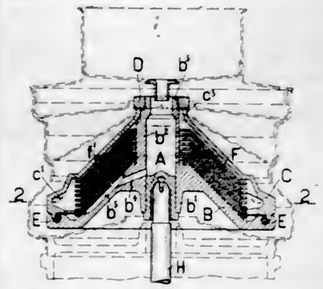
1. A repair bottom for a hod or the like consisting of a plate adapted to be placed on the upper surface of the bottom of the hod, the plate having lugs struck therefrom adapted to penetrate the bottom of the hod and be bent against the same.

1,475,322. AEROPLANE. EMILE SCHEEMACKER, Woonsocket, R. I., and GEORGES RAIMOND, Bellingham, Mass. Filed Aug. 2, 1922. Serial No. 579,256. 12 Claims. (Cl. 244—21.)



12. In an aeroplane, the combination with a fuselage, of a seat therein, a lazy tongs supporting the seat, and to which it is pivoted, springs for elongating the lazy tongs, means for locking the lazy tongs against elongation, a spring for swinging the seat on the lazy tongs when the latter is extended, a parachute-holding pocket in the fuselage in rear of the seat, a spring-operated cover for the pocket, a holding device for the cover carried by the seat, and an ejector in the pocket operated when the cover is opened.

1,475,323. CENTRIFUGAL DRUM. AUGUST SCHMÜCKING, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Mar. 16, 1923. Serial No. 625,543. 3 Claims. (Cl. 233—46.)

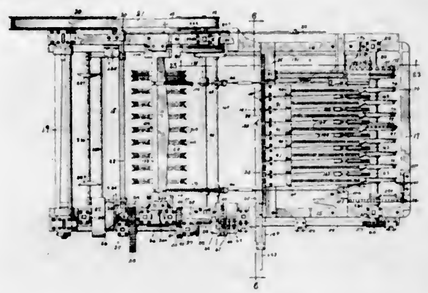


1. In a centrifugal drum for clarifying liquids and having circumferential outlets for the separated constituents of the liquid, collecting recesses of increasing depth at the inside of the circumferential wall of the drum, said outlets being situated at the deepest portion of said recesses, and a nozzle in each outlet.

1,475,324. FENCE LOOM. JAMES W. SNEDEKER, Adrian, Mich., assignor to Page Steel & Wire Company, Adrian, Mich., a Corporation of New Jersey. Filed Sept. 13, 1922. Serial No. 587,911. 21 Claims. (Cl. 140—5.)

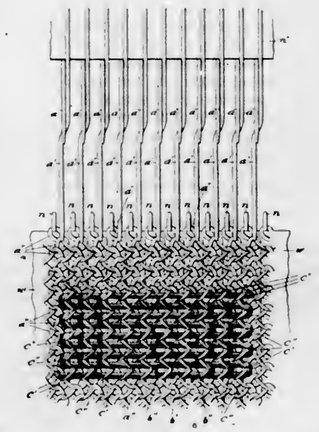
1. In a fence loom, the combination of a frame, a rotatable drum mounted thereon and adapted to receive the strands and pickets of a fence and including a wheel

intermediate the ends and another at one end of the drum, each having a series of radially movable anvils,



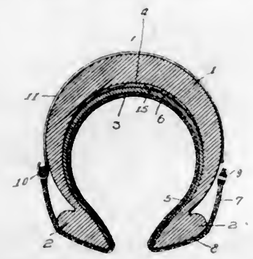
means to move the anvils in and out, means to position the pickets, and means to twist the strand wires.

1,475,325. KNITTED FABRIC AND METHOD FOR ITS PRODUCTION. ISAAC SPRINGTHORPE, Germantown, Pa., assignor, by mesne assignments, to Springthorpe Textile Machine Company, Philadelphia, Pa., a Corporation of Delaware. Filed Nov. 19, 1918. Serial No. 263,165. 14 Claims. (Cl. 66—4.)



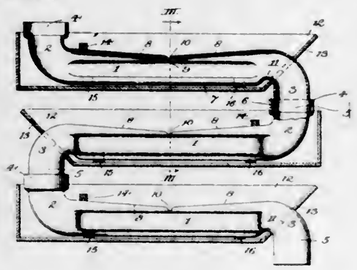
1. The method of knitting a fabric which is substantially non-stretchable and is of substantially uniform and regular formation warpwise and weftwise throughout its extent, which consists in forming a body composed solely of tensioned warp threads and tensioned weft threads, the warp threads being knitted into tight loops while knitting into said loops uniformly and regularly laid tensioned sinuous weft threads in a manner insuring the enclosure and tight binding of the weft threads at different points of their lengths and at their bends or turns by the loops of the warp threads and the exertion of weftwise tension by the bends or turns of the weft threads on the warp loops where they interlock with the loops of the warp threads, the weft threads being repeated in regular and corresponding formation warpwise throughout the fabric in groups or bundles, the bends or turns of the individual weft threads of each group or bundle being regularly progressed weftwise throughout the fabric being knitted.

1,475,326. INNER TIRE. ANDREW J. STEPHENS, Kansas City, Mo. Filed May 27, 1920. Serial No. 384,678. 1 Claim. (Cl. 152—18.)



A liner for tire casings, comprising an endless annular member which is U-shaped in cross section, said member comprising a textile body and a cushion stock tread, the body being extended beyond both edges of the tread to form flaps which are foldable across the edges of a tire casing, the tread being made up of inner and outer members, the inner member being wider than the outer member and extending substantially to the lines where the body is folded to form the flaps, the outer member being provided on its outer surface with recesses, the recesses extending but part way through the outer member to form vacuum cups adapted to engage the inner surface of a tire casing and hermetically sealed at their inner ends, the inner member forming a resilient backing for the thinned portions of the outer member which lie at the inner ends of the recesses.

1,475,327. ABSORPTION AND CONDENSING APPARATUS. STEPHEN L. TYLER, Brooklyn, N. Y. Filed June 22, 1922. Serial No. 570,132. 17 Claims. (Cl. 261—119.)



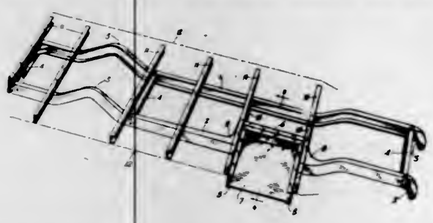
1. An absorbing chamber comprising a hollow body, said body being provided with an upper wall which inclines downwardly from each end toward the midlength thereof.

2. An absorbing chamber comprising a hollow body, the upper wall or top whereof is flattened and inclines downwardly from each end thereof toward the midlength of the chamber.

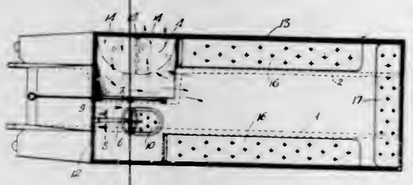
1,475,328. VEHICLE FRAME. CLAUDE A. WALES, Brooklyn, N. Y., assignor to The Passenger Lorry Company, a Corporation of Delaware. Filed Nov. 9, 1920. Serial No. 422,778. 5 Claims. (Cl. 280—106.)

1. A frame for a motor vehicle comprising a pair of longitudinal members adapted to carry the main floor, cross members connecting and bracing said longitudinal members, one of said longitudinal members being deflected to provide a pit space below the main floor level in the intermediate portion of the frame, a depressed entrance

platform carried by said member to constitute a floor for said pit and located within an easy step below the upper surfaces of said longitudinal members, said platform extending substantially inwardly past that plane in which the outside edges of the end portions of said deflected member lie to adjacent the center of the frame.

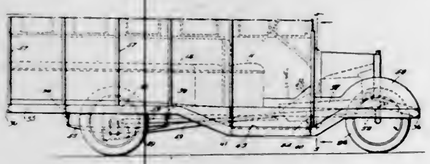


1,475,329. VEHICLE BODY. CLAUDE A. WALES, Brooklyn, N. Y., assignor to The Passenger Lorry Company, a Corporation of Delaware. Filed Nov. 9, 1920. Serial No. 422,779. 3 Claims. (Cl. 296—28.)



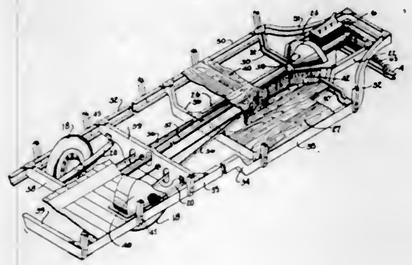
1. A motor vehicle comprising a body structure having a floor, roof, sides and front and rear portions, a cross braced frame below said body structure, having longitudinal members extending the greater part of the length of said frame, one of said members being deflected to provide a pit space below the main floor level, a depressed entrance platform carried by said member to constitute a floor for said pit and located within an easy step of the ground, below the top of said longitudinal member, said platform extending substantially inwardly past the axis of the longitudinal member from adjacent the side of the vehicle, and a driver's seat located adjacent said entrance platform.

1,475,330. VEHICLE FRAME. CLAUDE A. WALES, Brooklyn, N. Y., assignor to The Passenger Lorry Company, a Corporation of Delaware. Filed Mar. 16, 1921. Serial No. 452,686. 10 Claims. (Cl. 280—106.)



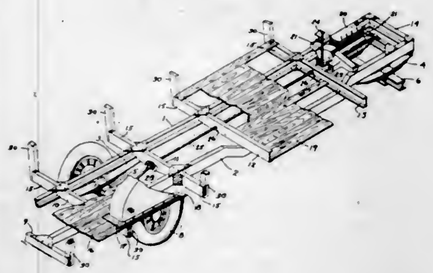
1. A motor vehicle frame comprising an outside substantially straight longitudinal sill member, an oppositely disposed outside longitudinal sill member having a portion thereof depressed, below the corresponding portion of said first sill member to be within one step of the frame plane, cross members connecting said sill members at both elevated and depressed portions, at least one of the cross members extending downwardly from the first mentioned sill member and across the frame to the depressed portion of the opposite or second mentioned sill member in a plane below the frame top plane to cooperate with the depressed sill member in carrying a lowered entrance platform, and an entrance platform carried thereon within one step of the frame plane.

1,475,331. ONE-STEP DIRIGIBLE VEHICLE. CLAUDE A. WALES, Brooklyn, N. Y., assignor to The Passenger Lorry Company, a Corporation of Delaware. Filed Oct. 3, 1921. Serial No. 504,994. 12 Claims. (Cl. 280—106.)



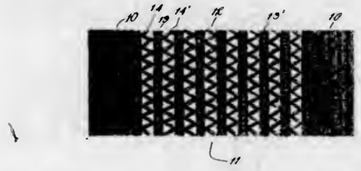
1. A motor vehicle comprising a pair of dirigible front wheels and rear driving wheels, an engine mounted in the forward portion of the vehicle, a propeller shaft extending from the engine rearwardly for driving the rear wheels, said engine and shaft being located away from the longitudinal center line of the vehicle, a pair of longitudinal frame members extending the greater part of the length of the vehicle, an entrance platform in the forward portion of the vehicle extending inwardly past the axis of one of said longitudinal frame members to a position adjacent said propeller shaft, the longitudinal frame member past which the platform extends being depressed to support the platform within an easy step of the ground.

1,475,332. VEHICLE FRAME. CLAUDE A. WALES, Brooklyn, N. Y., assignor to The Passenger Lorry Company, a Corporation of Delaware. Filed Nov. 19, 1921. Serial No. 516,277. 9 Claims. (Cl. 280—106.)



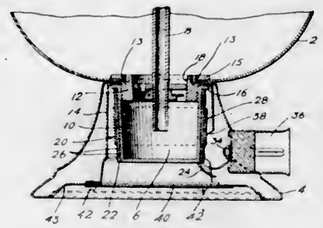
1. A vehicle frame comprising in combination a pair of longitudinal members, one being downwardly depressed an easy step below the opposite portion of the other member, and a cross bracing member attached to said longitudinal members and extending from one across and over the depressed portion of the other longitudinal member.

1,475,333. KNITTED FABRIC. EDWARD C. WARD, Valley Falls, N. Y., assignor to Abraham Lapovsky, New York, N. Y. Filed Sept. 17, 1921. Serial No. 501,285. 5 Claims. (Cl. 66—4.)



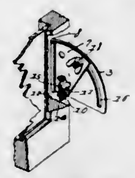
1. A piece of knit goods comprising contiguous longitudinal band of taffeta stitching arranged alternately throughout the width of the goods with longitudinal loosely knitted portions having rib stitching arranged thereon.

1,475,334. PERCOLATOR. MAURICE L. WARNER, Meriden, Conn., assignor to Manning, Bowman & Company, Meriden, Conn., a Corporation of Connecticut. Filed Dec. 13, 1921. Serial No. 521,970. 13 Claims. (Cl. 219—43.)



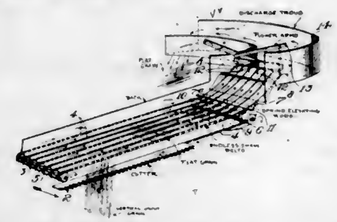
1. A device of the class described having, in combination, a liquid container having a cup-shaped member extending downwardly therefrom, and a heating device of flexible material in the form of a sleeve telescopingly engaging the exterior of said cup-shaped member and held thereon by frictional engagement.

1,475,335. LATCHING HINGE. WILLIAM WRIGHT, Lake Preston, S. Dak. Filed Mar. 20, 1922. Serial No. 545,265. 8 Claims. (Cl. 16—144.)



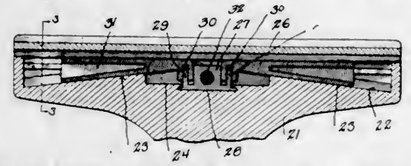
1. In a hinge, the combination with a stationary structure having a facing plate, of a swinging closure provided with a facing plate, to register with the first plate, a pin pivotally mounting the closure within the stationary structure and hinging said plates together and provided with a lateral extension at one end, a securing plate on the closure provided with a bearing receiving said pin, said pin holding bearing having its wall provided with a notch to receive the lateral extension of the pin, to hold the pin stationary in its bearing, and means carried by one plate and cooperatively engaging with the other plate, for holding the two plates in different adjusted positions, thereby holding the swinging closure in different positions.

1,475,336. CUTTING MACHINE. FRED WM. T. ZOEPKE, Great Falls, Mont. Filed Feb. 16, 1922. Serial No. 536,994. 9 Claims. (Cl. 56—169.)



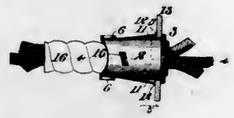
1. In a cutting machine of the class described, the combination with a frame, of cutting means carried by said frame, a grain conveyor including a plurality of sprockets at one end and endless chain belts on said sprockets, a discharge trough contiguous to said sprockets, rods supported at one end upon said frame and positioned between said sprockets and extending into said trough, and means for removing cut grain or straw or the like from the ends of said rods extending into the trough and conveying said cut grain the length of the trough.

1,475,337. EXPANDING CROSSHEAD SHOE. VITTORIO ANDRIOLI, Schenectady, N. Y. Filed July 20, 1921. Serial No. 486,192. 9 Claims. (Cl. 74—84.)



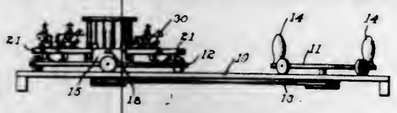
8. In a crosshead having opposed inclined surfaces at both top and bottom, slippers at both the top and the bottom of the cross head, pairs of opposed wedge shaped members inserted between the slippers and inclined surfaces at the top and bottom and means for moving the opposed wedge shaped members up and down the opposed inclined surfaces for adjusting the slippers vertically.

1,475,338. CONDUIT FASTENER FOR OUTLET BOXES. EDWARD M. BLAKE, San Francisco, Calif., assignor to Karl Bruchsaler, San Francisco, Calif. Filed Feb. 23, 1921. Serial No. 447,305. 2 Claims. (Cl. 247—25.)



1. A fastener for uniting armored conduits to outlet boxes, the same comprising two semi-circular members each free at one end and hinged together at their opposite ends, each provided with an inwardly projected tooth to engage with the spiral groove of the covering of a conduit fitted within the fastener; an outwardly projected flange on each member adjacent the free end thereof, an angularly disposed collar carried by the free end of one of the hinged members, and shoulders outwardly projected from one member a slight distance removed from its outwardly projected flange, said shoulders and the flanges of the hinged members serving as stops for engaging the rear and front wall surfaces respectively of the back plate of an outlet box when forced into the conduit opening thereof.

1,475,339. TOY. WILLIAM F. COBB, Putney, Vt. Filed Oct. 12, 1922. Serial No. 594,122. 7 Claims. (Cl. 46—27.)



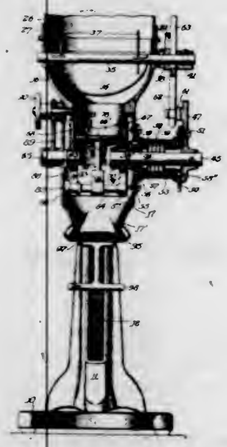
1. As an article of manufacture, a merry-go-round toy comprising a rotary wheel, a plurality of rocking toy supports each provided with a pair of rockers resting freely thereon, and means carried above the wheel for preventing the rocking supports from traveling around on the wheel but leaving their rocking motion unrestricted.

1,475,340. ATOMIZER. JAMES D. DAVIS, Denver, Colo. Filed Oct. 21, 1922. Serial No. 596,071. 4 Claims. (Cl. 128—177.)



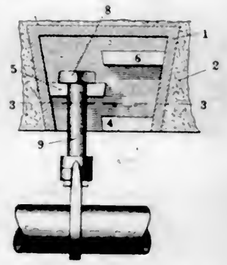
1. An atomizer comprising an air supply pipe and a plurality of fluid supply pipes, said pipes terminating adjacent but in spaced relation to each other and a mixing nozzle slidably and rotatably supported upon the air supply pipe and having pockets adapted to seat the ends of the fluid supply pipes whereby the fluid supply pipes may be selectively associated with the air supply pipe.

1,475,341. DISPENSING MACHINE. SIGVORT HANSON, Racine, Wis., assignor to Racine Dispenser Manufacturing Company, Racine, Wis., a Corporation. Filed Sept. 20, 1920. Serial No. 411,628. 14 Claims. (Cl. 221—107.)



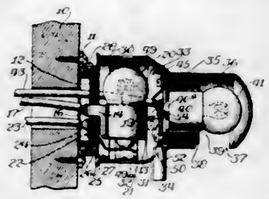
1. In a dispensing machine, an apertured ejector therein, a bottom in said aperture, a shaft connected to said bottom, a cross-shaft connected to said shaft, guideways in said ejector in which said cross-shaft travels, yielding means interposed between said bottom and said ejector, and means for actuating said cross-shaft to permit said bottom to raise and lower in said ejector.

1,475,342. INSERT FOR FLOORS, WALLS, AND THE LIKE. JOSEPH HIRSHSTEIN, Cleveland, Ohio, assignor of one-half to Samuel W. Goldman, Cleveland, Ohio. Filed May 27, 1921. Serial No. 473,147. 9 Claims. (Cl. 72—105.)



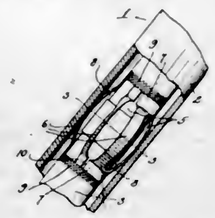
2. An insert adapted to be positioned in the material of a floor and provided with support engaging members in different horizontal planes.

1,475,343. COMBINED LIGHT AND SIGNAL DEVICE. JOHN JOHNSTON, Chicago, Ill. Filed Oct. 28, 1922. Serial No. 597,523. 7 Claims. (Cl. 240—7.)



1. The combination of a socket for an electric lamp, an electric lamp having a bulb and a contact carrying portion which is received in said socket, a hood for the lamp bulb, said hood having an open end and one or more body openings through which latter the light rays from the lamp pass, a second electric lamp socket seated in the said open end of the hood, an electric lamp having a bulb and a contact carrying portion which is received by the last recited socket, and a hood for the last recited lamp bulb, the last recited hood being detachably connected with the first said hood.

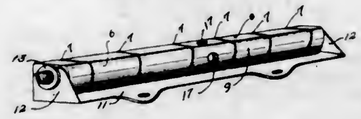
1,475,344. SPRING BUSHING. ALBERT O. JUDSON, Columbus, Ohio. Filed Oct. 5, 1921. Serial No. 505,612. 1 Claim. (Cl. 64—10.)



A steering column comprising an outer tubular member and a shaft considerably smaller in diameter than the tubular member and disposed therein, said shaft being circumferentially grooved to form upper and lower shoulders, in combination with a resilient bushing comprising upper and lower split collars which snugly embrace the shaft adjacent said shoulders and the ends of

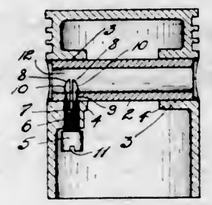
which abut said shoulders and a plurality of outwardly bowed and longitudinally extending ribs connecting said collars, said collars and said ribs being formed of a single and integral part, said shaft turning in said split collars and said bushing being held against turning by the engagement of its longitudinally extending ribs with the inner wall of the tubular member.

1,475,345. NUT FOR GUITARS AND SIMILAR INSTRUMENTS. THOMAS B. LAMBERT and LAWRENCE E. LIVELY, Spokane, Wash. Filed May 13, 1922. Serial No. 560,573. 1 Claim. (Cl. 84—314.)



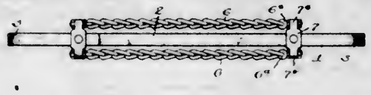
A pitch changing device for use on the neck of a guitar or like instrument comprising a bar fashioned with exterior grooves for strings and formed with a flat face and an enlarged rounded surface, a journal support for said bar, trunnions on the bar journaled in said support, one of said trunnions having a longitudinally extending pocket for a key and said bar having laterally extending sockets adapted to receive said key as described.

1,475,346. WRIST-PIN LOCK. ALFRED A. LOVEJOY, South Bend, Ind. Filed Jan. 31, 1923. Serial No. 616,087. 1 Claim. (Cl. 74—108.)



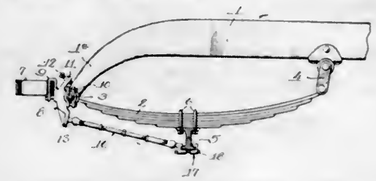
The combination with a wrist pin having a chamber therein, said wrist pin extending through a boss of the piston, of a locking device for said wrist pin, said locking device comprising a member extending through the side of the boss and having its end extending through a registering aperture in the chambered wrist pin, said end being split thereby forming spring arms, and lugs carried by the spring arms and overlying the inner edges of the aperture, and disposed within the chamber of the wrist pin.

1,475,347. AUTOMOBILE BUMPER. WILLIAM R. McGOWEN, Chicago, Ill., assignor to American Bumper Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 17, 1923. Serial No. 619,563. 7 Claims. (Cl. 293—55.)



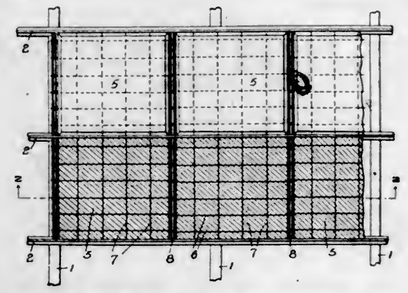
1. An automobile bumper having an impact member comprising a normally straight resilient bar, a flexible member extending parallel with and attached at its ends to said bar, the portion of said bar intermediate the points of attachment being distorted into a curved line by said flexible member.

1,475,348. BUMPER-SUPPORTING BRACKET. WILLIAM R. McGOWEN, Chicago, Ill., assignor to American Bumper Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 17, 1923. Serial No. 619,564. 7 Claims. (Cl. 293—55.)



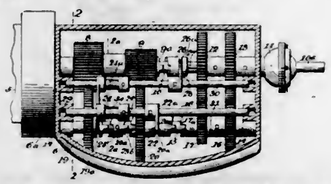
1. A bumper supporting bracket adapted to be mounted at the end of a vehicle frame and comprising a thrust rod connecting said bracket with the vehicle axle, said rod having swivel connection at its ends through the medium of ball and socket joints.

1,475,349. ROOF OR FLOOR CONSTRUCTION. HERBERT E. MARKS, Glen Osborne, Pa. Filed Apr. 14, 1922. Serial No. 552,489. 8 Claims. (Cl. 108—1.)



1. A roof or floor construction, comprising supporting bars, cementitious slabs resting on said bars, metal reinforcing members embedded in said slabs and projecting beyond the ends thereof, the extremities of the reinforcing members being bent laterally, the reinforcing members at contiguous ends of adjacent slabs overlapping, and transverse metal members covering the gap between adjacent slabs and having a portion disposed directly within the space therebetween, said portion lying between the said bent extremities of adjacent slabs for interlocking the projecting ends of the reinforcement and thereby connecting the same to form a continuous reinforcement throughout the entire structure.

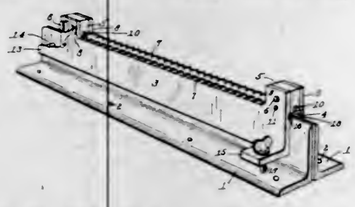
1,475,350. AUTOMOBILE TRANSMISSION GEARING. DANIEL H. MARVIN, Cedar Rapids, Iowa. Filed Feb. 9, 1921. Serial No. 443,584. Renewed Oct. 8, 1923. 4 Claims. (Cl. 74—59.)



1. In a gear transmission, a driving shaft, a broad-faced gear secured thereto, a transmission shaft journaled therein, an adjacent clutch to engage said gear, a gear attached to the transmission shaft, a parallel

jack-shaft, a gear secured thereto and meshing with the gear of the transmission shaft, a slidable gear meshing with the broad-faced gear, and revolvuble on the jack-shaft, a clutch secured to the jack-shaft, and means for shifting said revoluble gear, and the clutch of the transmission shaft.

1,475,351. SAW-FILING RIG. GEORGE W. PHILLIPS, Regina, Saskatchewan, Canada. Filed July 10, 1922. Serial No. 574,002. 5 Claims. (Cl. 76—78.)



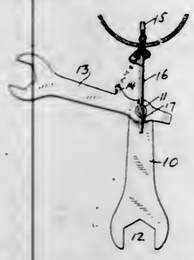
1. A saw filing device comprising clamping jaws; spaced opposed filing members so assembled that their relative position is adjustable longitudinally and having intersecting series of file guiding notches on their upper edges; and means for attaching said filing members to said jaws.

1,475,352. METHOD OF PRODUCING WIRE FABRIC. ANDREW PURVES, Holyoke, Mass. Filed May 9, 1922. Serial No. 559,525. 13 Claims. (Cl. 139—35.)



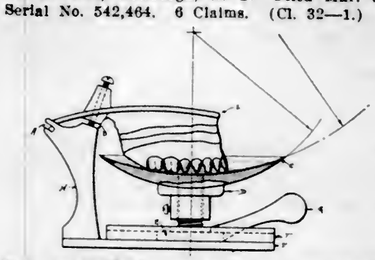
1. The method of producing a woven wire fabric which consists, in employing at the edge of the fabric to be woven a temporary selvage wire traveling therewith during the take-up of the fabric in the weaving operation, looping the weft wire around said selvage wire during the weaving operation, forming a row of vacant loops of said weft wire adjacent said edge warp wire during the weaving and take-up of the fabric to facilitate the final removal of said warp wire, and finally when said fabric is woven removing said selvage wire.

1,475,353. TOOL FOR REPAIRING PUNCTURED TIRES. SAMUEL SHAPIRO and MAX WEINBERG, Milwaukee, Wis. Filed Feb. 20, 1922. Serial No. 537,905. 3 Claims. (Cl. 152—27.)



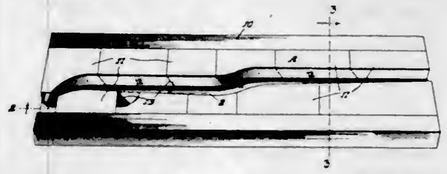
1. In a puncture repairing tool, a handle, a fixed post extending laterally thereof, a lever pivoted on the said post and provided with a hook, and a needle adjustably secured in the post, the said lever being adapted to be turned to discharge the rubber band distended between the point of the needle and the hook.

1,475,354. DENTAL INSTRUMENT. WILLIAM M. STANBROUGH, Newburgh, N. Y. Filed Mar. 9, 1922. Serial No. 542,464. 6 Claims. (Cl. 32—1.)



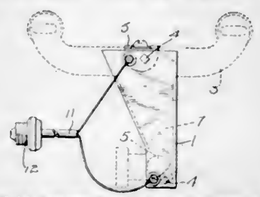
3. In an artificial tooth-guide the combination of a bed plate containing antero-posterior guides, with vertically disposed members affixed to one end thereof, said members provided with slots at an angle to the horizontal resembling the floor of the glenoid fossa in the human head; a circular base adapted to slide in said bed plate guides; a stand portion eccentrically screw threaded to said base; a template having a calibrated concave surface attached to the upper part of said stand portion and adapted to be turned thereon, all substantially as and for the purposes hereinbefore set forth.

1,475,355. DIE FOR DRAWING PRESSES. REUBEN STANLEY SMITH, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Feb. 20, 1922. Serial No. 537,914. 7 Claims. (Cl. 113—49.)



1. Dies constituting the matrix of a sheet metal drawing press, the said dies being formed in sections with ends which overlap, to eliminate die marks on the exterior of the drawn article.

1,475,356. MANIFOLD HEATER. ARCHIE E. TAUSCHE, La Crosse, Wis. Filed May 18, 1922. Serial No. 561,951. 9 Claims. (Cl. 219—38.)

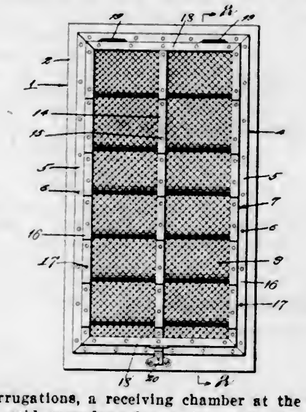


1. A manifold heater having a member of which one side is formed to be directly in contact with the manifold substantially throughout the extent of the member, the opposite face of the member lying substantially in a plane, a heating element lying in a similar plane and applied to direct contact with the plane surface of the member, and means for securing the heater to the manifold.

1,475,357. FLYTRAP. JOSEPH WEBER, Lone Rock, Wis. Filed Mar. 23, 1921. Serial No. 454,610. 1 Claim. (Cl. 43—119.)

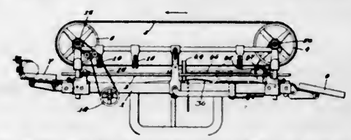
A fly trap including a framed reticulated closure, a secondary frame hinged to said closure and having its walls arranged at right angles to the first said frame, certain of said walls being cut in saw tooth

formation to receive on its edges a piece of reticulated material and adapted to cover the entire second frame, inlets formed in said material and at the base of cer-



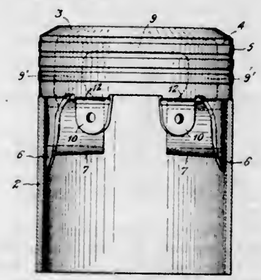
tain corrugations, a receiving chamber at the upper portion of said secondary frame, braces in the reticulated piece for increasing the rigidity thereof, and a catch for releasably holding the secondary frame against the closure.

1,475,358. CAN-LABELING MACHINE. CHARLES H. WILD, Baltimore, Md., assignor to Burt Machine Company, Incorporated, a Corporation of Maryland. Filed July 2, 1921. Serial No. 482,038. 6 Claims. (Cl. 216—58.)



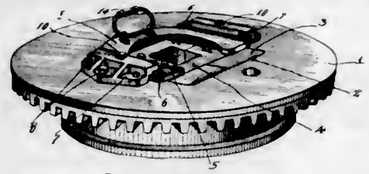
1. In a can labeling machine for affixing labels to cans, means for feeding the cans through the machine; a support for the cans as they pass through the machine and suitable means for applying adhesive to the cans and label holding and feeding means and means for sticking the ends of the labels, the support having spaced apertures to receive the ears as the cans roll through the machine, providing uniformity of contact of the cans with the support and means for causing the ball ears to register with the apertures.

1,475,359. PISTON. RUSSELL J. WOODRUFF, Cleveland, Ohio. Filed Dec. 22, 1921. Serial No. 524,055. 8 Claims. (Cl. 74—108.)



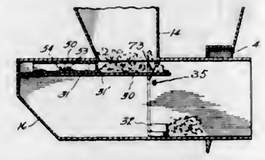
1. A piston for an internal combustion engine comprising a guide section and a head section of different materials; and flexible means for securing together said two sections, whereby adjustment is allowed for the differential in expansion.

1,475,360. BUSHING RETAINER FOR ROTARY-DRILL TABLES. LEWIS E. ZERBE, Moneta, Calif., assignor to Union Tool Company, Torrance, Calif., a Corporation of California. Filed Feb. 20, 1922. Serial No. 538,059. 7 Claims. (Cl. 255—23.)



1. In a device of the nature disclosed, the combination of a rotary drill table having vertically removable bushings, movable keeper means, and means for guiding the same into a position to prevent a removal of the bushings.

1,475,361. MECHANICAL STOKER. JOSEPH STANLEY STOGDALE, Tacoma, Wash. Filed May 26, 1921. Serial No. 472,878. 2 Claims. (Cl. 110—113.)



1. In a stoking device of the class described, a stoker housing having an open end and a feed opening in the top thereof, a shelf disposed horizontally within the housing below the feed opening, a slide plate mounted on said shelf to move across said feed opening, a shovel suspended within the housing below said shelf having a suspending leg provided with a laterally extending flange, a driven shaft extending through the housing, wheels fixed on said shaft having radially extending arms thereon, the arms of one of said wheels being adapted to engage said shovel leg flange to actuate the shovel rearwardly, a lever pivotally fixed to the housing adapted to be engaged at one end by the arms of the other wheel and being operatively connected with the slide plate so as to move the latter rearwardly, and springs fixed to the housing and connected with the shovel and plate, respectively, for moving said shovel and plate forwardly when released by said arms.

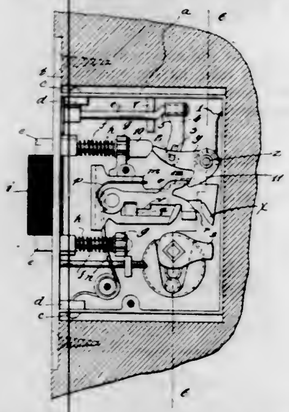
1,475,362. HOE. GEORGE F. BRACKETT, Sequim, Wash. Filed May 10, 1922. Serial No. 559,791. 1 Claim. (Cl. 97—68.)



A hoe blade of the class described, comprising an elongated, triangular body having a mounting shank extended from its base end; and sharpened throughout the length

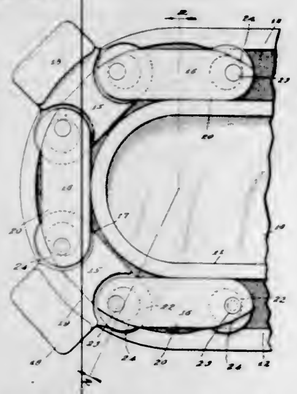
of its longer, inner edge, said body being bent so that the cutting edge and greater part of the blade body will lie in a horizontal plane while the shank and base end will lie in a vertical plane, with the bend in the cutting edge being relatively sharp and the back, or other edge of the blade curved gradually from the shank and toward the blade point for the purpose set forth.

1,475,363. LOCK. SAMUEL D. BUTTERWORTH, Lansing, Mich. Filed Feb. 15, 1922. Serial No. 536,663. 9 Claims. (Cl. 70—46.)



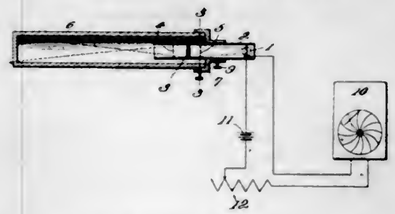
1. In a lock, the combination of a housing, a latch-bolt slidable therein, a dogging-member provided with a tumbler for holding it in released position or projected position where it locks the latch-bolt against retraction, means tending to project the bolt behind the latch-bolt when the dogging-member is released, dog-setting devices which can be set to be operated by the latch-bolt to release the tumbler and permit the dogging-member to shoot in behind the latch-bolt and means independent of the dog-setting devices for releasing the tumbler.

1,475,364. CUTTER CHAIN AND BARS FOR MINING MACHINES. FRANK CARTLIDGE, Terre Haute, Ind. Filed May 13, 1920. Serial No. 380,955. 2 Claims. (Cl. 262—33.)



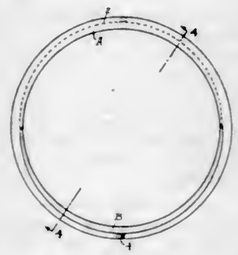
1. In a cutter chain for mining machines, a connecting link for connecting the bit-carrying links, said connecting link being formed of two side plates and two circular cross members extending between such side plates and through bearing holes in the bit-carrying links, said cross members being set in sockets in the adjacent faces of the side plates, and rivets passing through said cross members and connecting said side plates, and said side plates being provided at points outwardly beyond said rivets with outwardly facing surfaces for co-operating with guide flanges of a cutter bar, said outwardly facing surfaces being straight through the intermediate part of the length of said plates and cut off obliquely at the end parts, the arc of said oblique cut being greater than the arc of the cross members.

1,475,365. APPARATUS FOR MEASURING HIGH TEMPERATURES. JULIAN L. SCHUELER and CHESTER A. KELLOGG, Bartonville, Ill. Filed Feb. 9, 1920. Serial No. 357,202. 17 Claims. (Cl. 73—32.)



1. In device for measuring high temperatures, in combination, a tubular body, a light sensitive cell in said body, a lens in said body, and means connected with said tubular body arranged to exclude light interfering media between said means and said cell and when subjected to heat changing in degree of intensity of color which change affects the resistance of said cell.

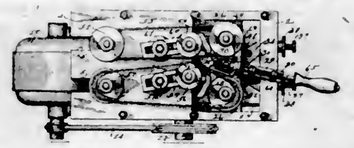
1,475,366. PISTON RING. FRANK F. BESSINGER, Cleveland, Ohio. Filed May 16, 1921. Serial No. 469,971. 5 Claims. (Cl. 74—109.)



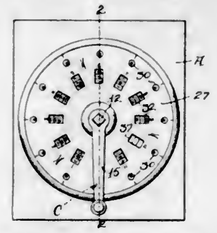
1. A piston ring packing consisting of a pair of split rings each having an arcuate flange extending partially around the ring and having a substantial thickness throughout its length, the inner side of said flange forming the inner surface of the ring throughout the extent of the flange and forming an inwardly extending shoulder.

1,475,367. MECHANISM FOR SHARPENING RAZOR BLADES. ROYAL L. BOULTER, Los Angeles, Calif. Filed Aug. 20, 1919. Serial No. 320,040. 2 Claims. (Cl. 51—140.)

1. In a machine for sharpening razor blades, a housing with motor, shafts through the side of said housing with gears thereon within said housing, with means to be driven from said motor, vertical shafts through the top of said housing with gears in mesh with the gears on said first shafts, driving pulleys on the shafts through the top of said housing, to be driven thereby, two endless sharpening elements mounted on said pulleys to be driven thereby, with adjacent laps of said sharpening elements running in the same direction, means for changing the angle of direction of said sharpening elements at positions opposite each other, a razor blade holder, and supporting and operating means for holding said blade holder between the adjacent laps of said sharpening elements, with means for raising and lowering the same intermittently and automatically and for oscillating it from one side to the other between the adjacent sides of said sharpening elements.

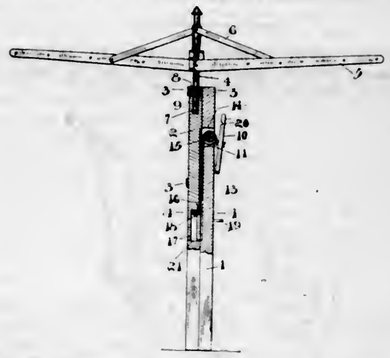


1,475,368. REGISTER FOR FLUID DISPENSERS. SUMNER BOYD CHILSON, Minneapolis, Minn. Filed Nov. 21, 1921. Serial No. 516,636. 7 Claims. (Cl. 235—91.)



1. In a device of the class described, the combination with a fluid dispenser having a propeller shaft therefor, of gearing to turn said shaft including a locking gear, a yielding latch slide operating in one position to lock said gear, a carriage, a plurality of yielding, slidable lock bolts, on said carriage, severally movable into operative position for actuating the latch slide, a register for each lock bolt, said registers being mounted upon the carriage, means associated with said gearing and rendered operative by said lock slide to drive the respective register for the particular lock bolt employed in freeing said gearing through said latch slide.

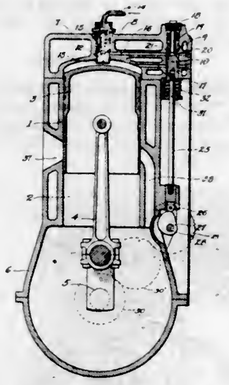
1,475,369. CLOTHES REEL. WILLIAM J. COULTER, Toronto, Ontario, Canada. Filed Feb. 28, 1923. Serial No. 621,723. 2 Claims. (Cl. 68—34.)



1. In a clothes reel the combination of a standard; a support slidably mounted on the standard and adapted to support clothes, said support and standard contacting

and having a longitudinal channel formed between their contacting faces, an opening being formed through the standard communicating with said channel; a flexible member secured to the support and extending up through the channel and out through the opening in the standard; a guide pulley for the flexible member located within said opening; a lever permanently hinged at one end on the standard, the flexible member being secured to said lever intermediate its ends, whereby the swinging down of the lever will draw on the flexible member to elevate the support; and a ball having its arms overlapping and pivoted on the sides of the standard, said lever having a notch formed therein with which said ball may be engaged to retain the support in its elevated position.

1,475,370. OIL ENGINE. THOMAS B. DANCKWORTT, Seattle, Wash., assignor of one-half to John Nicolaysen. Filed Nov. 16, 1920. Serial No. 424,354. 2 Claims. (Cl. 123—33.)

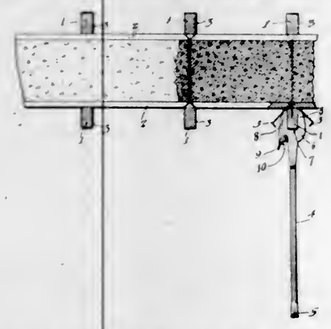


1. In an engine of the class described, in combination, an engine cylinder having a piston mounted for reciprocation therein, a fuel injector mounted in the cylinder head having a storage chamber therein provided with spray openings leading into the cylinder, a pump cylinder having an air inlet channel leading thereinto from the explosion chamber of the cylinder and having an air discharge channel leading therefrom into the fuel chamber, a piston mounted for reciprocation in the pump cylinder having a cylindrical air pocket longitudinally therein; said pocket having an outlet opening at its base movable respectively into registration with the air inlet and discharge channels when the piston is at its outer and inner limits of travel, a stem mounted to be adjustably extended into said pocket, and means operable by movement of the engine piston for actuating the pump piston from its lower to its inner limit of travel during the latter part of the compression stroke of the engine piston, for the purpose set forth.

1,475,371. STRIPPING BAR. EDWARD WRIGHT DAVIS, Atascadero, Calif. Filed Nov. 15, 1921. Serial No. 515,282. 1 Claim. (Cl. 81—3.)

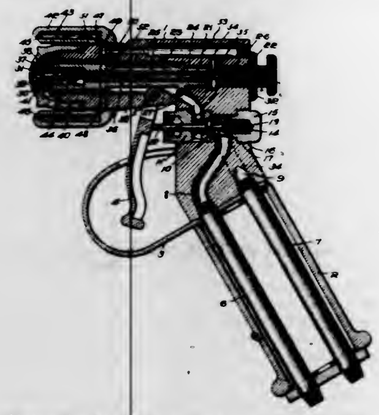
A stripping bar for taking down wired concrete forms embodying vertical timbers with wire loops passing around them for holding the side boards in place, consisting of a bar with a head having a socket with a jaw on each side, the rear portion of one of said jaws having a hook projecting away from the socket and with its point substantially in line with the outer edge of said jaw so as to enable the same to pass between the loop of wire and the edge of the vertical timber when the outer edge of the adjacent jaw is applied to the edge of the timber, said bar lying in substantially the same plane

as said jaw, so that the said jaw may operate as a fulcrum for the bar to exert a force at the hook to break



the loop, said jaws operating to fit over the timber to permit the same to be displaced from the side of the form by means of the bar.

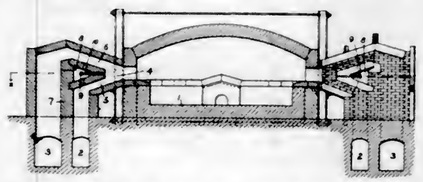
1,475,372. APPARATUS FOR APPLYING COATING. HERBERT W. DAY, Wollaston, Mass., assignor to Spray Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 1, 1922. Serial No. 540,170. 7 Claims. (Cl. 91—45.)



1. Means for applying coating comprising a body having means for supplying coating material, and having means to subject the same to the action of a motive agent, thereby effecting the discharge of the coating material, and means mounted for complete circumferential movement about said body to discharge a motive agent supplementally upon the discharged coating material at any angle, said means to discharge the motive agent being longitudinally adjustable in both directions upon said body and thus constituting the sole means whereby such supplemental discharge is permitted or is wholly cut off without affecting the main air supply.

3. A tool for applying coating comprising a body having passages for coating material and for a motive fluid under pressure and a member supported upon said body and having one or more supplemental motive-agent discharge passages adapted to communicate with the motive agent supply passage in said body, the said member having ports corresponding in size to the motive agent supply passage and having a threaded engagement with the body permitting it to be moved thereon for the purpose of wholly cutting off without leakage all communication with the motive agent supply passage and constituting the sole means to control the supplemental supply without affecting the main air supply.

1,475,373. CONSTRUCTION OF AND METHOD OF OPERATING HEATING FURNACES. HARVEY H. DEULEY, Rochester, Pa. Filed July 15, 1922. Serial No. 575,208. 7 Claims. (Cl. 158—4.5.)



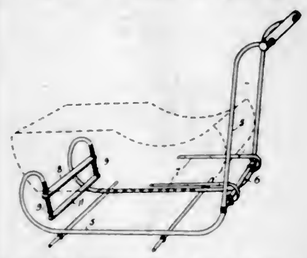
1. In a heating furnace the combination of a furnace chamber, convergent passageways adapted to carry confluent streams of gaseous substance to said furnace chamber, a fluid conduit arranged externally of and between said convergent passageways, and a nozzle leading from said conduit through the adjacent walls and adapted to project a jet of fluid into the meeting streams at the point of confluence.

1,475,374. PIPE CUTTER. HARRISON H. EATON, Beverly, Mass. Filed July 8, 1922. Serial No. 573,579. 16 Claims. (Cl. 81—187.)



1. A pipe cutter comprising work clamping means, a cutter, a depth gage, and means for automatically varying the position of the cutter and gage relatively to each other during the cutting operation.

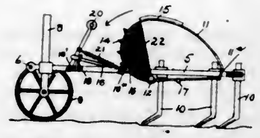
1,475,375. BABY CARRIAGE. WILLIAM JOHN EGAN, Geelong, Victoria, Australia. Filed Apr. 16, 1923. Serial No. 632,520. 2 Claims. (Cl. 267—5.)



1. In a carriage suspension, a frame work, a transverse bar inserted on the frame work, a body, springy plates connected to the bar at one end and attached to the

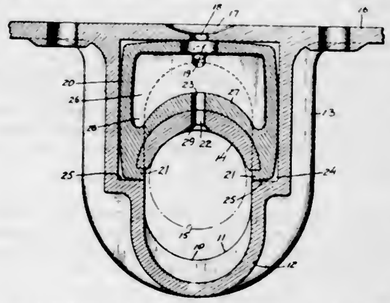
other end of the body, vertical bolts supported by the frame work and arranged under the end of the body opposite to that to which said springy plates are attached, a floating transverse plate secured to the body and guided on said vertical bolts and springs on said bolts above and below and bearing against said transverse plates.

1,475,376. SCUFFLER FOR AGRICULTURAL PURPOSES. ARTHUR ROBERT FIRKINS, Tenbury, England. Filed May 20, 1922. Serial No. 562,510. 1 Claim. (Cl. 97—74.)



A scuffler or cultivator for agricultural purposes, comprising in combination, land wheels, a frame adjustably mounted to said land wheels said frame pivoting on the axles of said land wheels, an inner frame disposed within the before mentioned frame in which is pivotally mounted an overbalanced cam, cultivating tines disposed on said frames, and spring controlled means for retaining the overbalanced cam in its raised or lowered position; substantially as set forth.

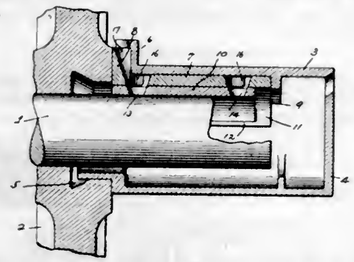
1,475,377. JOURNAL BOX. JAMES R. FLEMING, Scranton, Pa. Filed May 17, 1919. Serial No. 297,727. 10 Claims. (Cl. 64—24.)



1. In a bearing as characterized, a journal box having its hollow interior formed to provide a lower relatively narrow portion and an upper portion enlarged in opposite directions to either side of the side walls of the lower portion, and a bearing member disposed within the upper enlarged portion of said journal box and comprising a hollow body having an arched bottom wall extending across the upper open end of the lower portion of said journal box and forming lubricant receiving pockets at the opposite sides of the ridge portion thereof, said arched bottom wall having an opening formed in the ridge thereof for the passage through the same of the lubricant in its movement from one pocket to the other, whereby the lubricant passing downwardly of the opening will discharge onto the upper surface of an axle passing through the lower portion of said journal box.

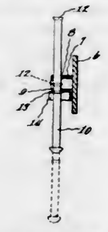
1,475,378. JOURNAL-BOX SEAT. JAMES R. FLEMING, Scranton, Pa. Filed Mar. 2, 1922. Serial No. 540,553. 4 Claims. (Cl. 64—25.)

1. In a device of the class described, an axle, a journal box for said axle, an outstanding semi-circular flanged portion formed at one end of said journal box, a chair removably mounted within said journal box, a flange formed at the outer end of said chair and adapted to seat in the flanged portion of said journal box, a lug formed inwardly of said journal box between the ends



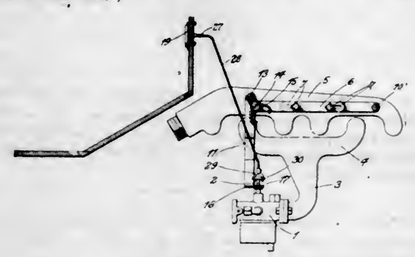
thereof and adapted to be abutted by the inner end of said chair, an axle seat detachably mounted in said chair, and means for introducing lubricant to said axle through said journal box, said chair and said axle seat.

1,475,379. BUTTON FASTENER. MORRIS FOLKMAN, Cleveland, Ohio, assignor of one-half to Frank J. Chalus, Cleveland, Ohio. Filed June 25, 1923. Serial No. 647,527. 5 Claims. (Cl. 24—100.5.)



1. A button or stud comprising a head having a hollow shank provided on one side with a hole and on the other side with a slot, and an integral stem slidable crosswise of the shank, through the hole and the slot, to withdraw the end of the stem from the hole and permit the stem to swing in the slot to alinement with the axis of the shank, and a clip attached to the head and engageable with the stem when the latter is crosswise of the shank.

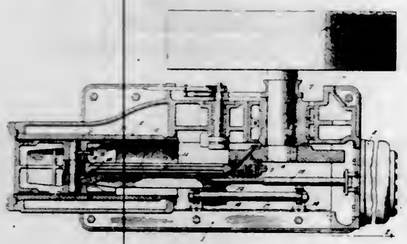
1,475,380. AUTOMATIC CARBURETOR CONTROL AND INDICATOR. SAMUEL E. FOREMAN, Paducah, Ky. Filed Aug. 25, 1922. Serial No. 584,258. 3 Claims. (Cl. 123—106.)



1. In combination with the exhaust manifold and carburetor of an internal combustion engine, a valve stem extending from the carburetor, a bar, means supported by the exhaust manifold for supporting said bar spaced from the exhaust manifold, a bar pivoted to the exhaust manifold and to the first-named bar and adapted to move with the expansion of the manifold, a device for

actuating said second bar in one direction, means for connecting the second-named bar and said valve stem whereby movement of the second-named bar results in a relative movement of the valve stem, an indicating device, and means for operating the indicating device from said valve stem.

1,475,381. COMPRESSOR UNIT. HEWITT A. GEHRES, Mount Vernon, Ohio. Filed Aug. 23, 1922. Serial No. 583,817. 5 Claims. (Cl. 230—27.)



1. In a compressor unit, in combination with the engine piston and the associated wrist pin and connecting rod, and the piston rod of the compressor, a slide rod havig a bearing head fitting the wrist pin of the engine piston and phovided with a lateral extension upon which the connecting rod is journaled, the slide rod having direct connection with the piston rod of the compressor.

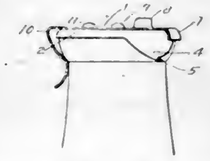
1,475,382. CHAIN FOR ELEVATING LIQUIDS. EMILE GENNEVOIS, Chatellerault, France, assignor to La Societe Anonyme Des Elevateurs De Liquides "Chaine-Helice" Bessonnet-Favre, Chatellerault, France. Filed Aug. 21, 1922. Serial No. 583,231. 4 Claims. (Cl. 103—72.)



1. An endless conveyor for elevating liquids, comprising a continuous, relatively-flat metal web, a continuous sheath encasing said web along its edges, and supporting connections between the two; substantially as described.

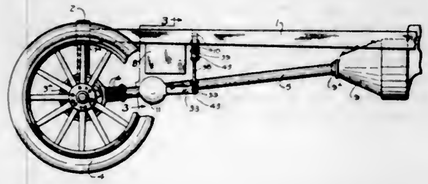
1,475,383. DAIRY-BOTTLE CAP. NATHANIEL J. HALL, Seattle, Wash. Filed Mar. 21, 1922. Serial No. 545,522. 1 Claim. (Cl. 215—63.)

A closure for dairy bottles embodying a disc having an opening in one edge and a curved flange bent downward from the remainder of the edge; a segmental cover for the opening having its outer edge curved downward, a projection on one side by which it may be moved, and being pivoted to the closure at a point at one side of the center so that as it opens the outer edge will move away from the side of the cover, and as it closes it will bind; a prong projecting downward from the edge of the closure for removing the paste board cap; and a spring



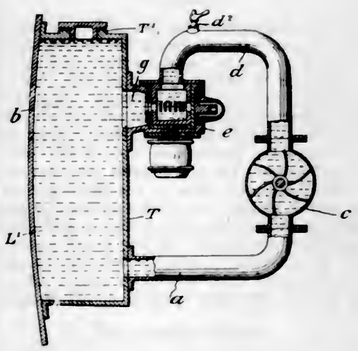
of a different material riveted to the closure and extending downward to grip the closure on the top of the bottle.

1,475,384. VEHICLE SHOCK-ABSORBING SYSTEM. ROBERT H. HASSLER, Indianapolis, Ind. Filed July 3, 1923. Serial No. 649,379. 12 Claims. (Cl. 267—9.)



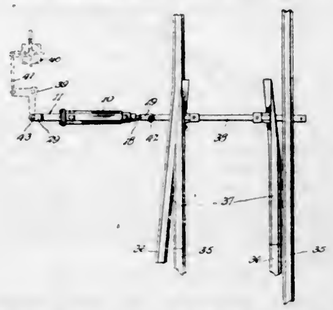
1. In a vehicle having front and rear axles, a longitudinally extended drive-shaft housing and a frame resiliently supported on said axles, a shock absorbing system comprising a shock absorber having one of its relatively movable parts operatively connected to said housing and its other relatively movable part operatively connected to said frame at a point substantially central between the front and rear axles and substantially on the longitudinal axis of said frame, whereby oscillations of either end of said frame impart movement to said shock absorber.

1,475,385. SUBAQUEOUS SOUND-SIGNAL TRANSMITTER. HEINRICH HECHT and FERDINAND SCHENKELBERGER, Kiel, Germany. Filed May 28, 1914. Serial No. 841,473. 14 Claims. (Cl. 116—27.)



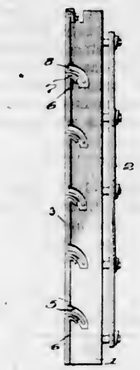
4. A subaqueous sound producer combined with circulation ducts, a source of liquid substantially deprived of its gaseous contents by artificial means, said liquid to have sound produced in it by said sound producer, and means for causing the liquid to flow in said ducts and through the sound producer.

1,475,386. SPRING CONNECTING ROD FOR SWITCH THROWS. WILLIAM F. HENKE, Norwood, and CHARLES H. PARTINGTON, Cincinnati, Ohio, assignors to The Cincinnati Frog and Switch Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 5, 1923. Serial No. 649,678. 10 Claims. (Cl. 246—321.)



1. A switch throw rod including coacting relatively movable rod sections, means at the outer end portion of one of said sections for mounting the rod at one end, lineally adjustable means at the outer end portion of the other of said sections for mounting the rod at its opposite end, and yieldable means coacting between the inner end portions of said sections to be compressed thereby for resisting movement of the sections elongating the rod as well as movement of the sections shortening the rod.

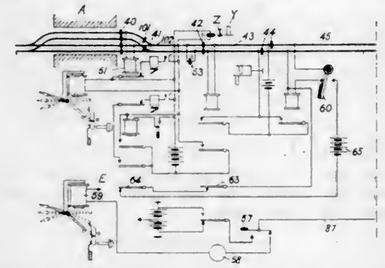
1,475,387. SHEET-METAL CONSTRUCTION. ALLAN T. HOLMES, Philadelphia, Pa. Filed June 14, 1921. Serial No. 477,408. 12 Claims. (Cl. 189—34.)



1. In combination, a plurality of supporting members provided with curved slots, panels provided with curved flanges along their upper and lower edges, said panels adapted to be removably interlocked with said supporting members in such a manner that the flange of one panel overlaps the flange of an adjacent panel to form a substantially smooth outer surface.

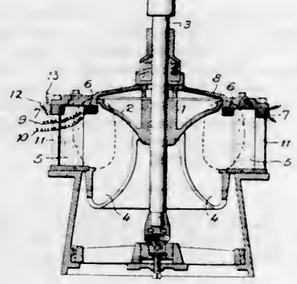
1,475,388. RAILWAY SIGNALING SYSTEM. ALFRED ERNEST HUDD, Liverpool, England, assignor to Automatic Telephone Manufacturing Company Limited, Liverpool, England. Filed Jan. 4, 1921. Serial No. 434,927. 17 Claims. (Cl. 246—26.)

17. A railway signaling system comprising a main insulated track and two local track circuits located at each end of said main track, electromagnetic means and switching means located at each end of said main track, interconnecting means between said switching means and said electromagnetic means, whereby the operation of a switching means renders the corresponding electromagnetic means inoperative, contact devices controlled by said electromagnetic means for energizing



said local track circuits, signaling devices controlled by said local track, an auxiliary device operated when one of said track circuits is energized, and a second signaling device controlled by said auxiliary device to permit the passage of successive trains in the same direction after said energized track circuit has been de-energized on the passage of a train.

1,475,389. HYDRAULIC TURBINE. RALPH S. HYATT, Valentine, Nebr., assignor of one-half to Charles H. Cornell, Valentine, Nebr. Filed May 9, 1923. Serial No. 637,769. 5 Claims. (Cl. 219—47.)

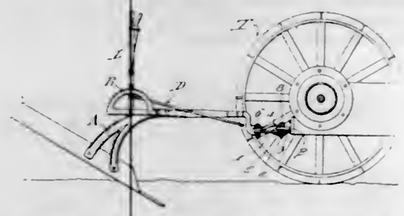


1. In a hydraulic turbine, means for preventing the formation and adherence of ice particles to the metal parts of said turbine, comprising a conductor of electricity arranged in proximity to said metal parts, and having an alternating current flowing therethrough, whereby induced currents flow in said metal parts and increase their temperature.

1,475,390. TRACTOR HITCH. ALBERT E. IMLER, Kalkaska, Mich. Filed Jan. 16, 1922. Serial No. 529,723. 3 Claims. (Cl. 280—33.11.)

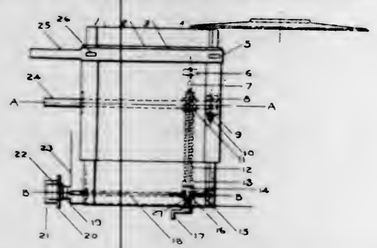
1. A tractor hitch comprising a bell crank structure for pivotal connection with a tractor for swinging movement in a horizontal plane with one arm extending longitudinally from the tractor and its other arm extending transversely of the tractor, the longitudinally extending arm having its free end adapted for connection with an implement and the transversely extending arm having its free end portion adapted for connection with adjusting means for holding the bell crank structure in a desired position, the longitudinally extending arm hav-

ing a fastener receiving opening in alinement with the transversely extending arm and having its forward end portion extending beyond the transverse arm to provide



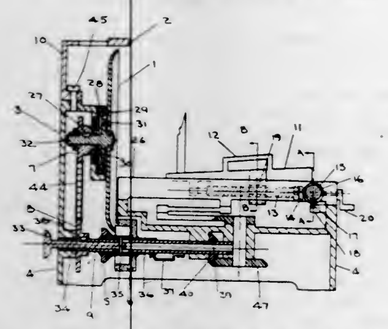
an extension for extending beneath a portion of the tractor and holding the bell crank structure against vertical tilting movement.

1,475,391. MEAT SLICING MACHINE. GRANTHAM JAQUETTE, Philadelphia, Pa. Filed Nov. 18, 1921. Serial No. 516,142. 2 Claims. (Cl. 146—102.)



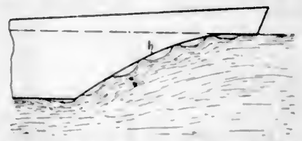
2. In a meat slicing machine a meat table, a reciprocating carriage, a feed worm having an extending shaft, a ratchet device secured thereon, a second ratchet device rotatable thereon and meshing with and rotating the first ratchet device, a pinion attached to the second ratchet device, a slidable rack meshing with said pinion, an adjustable stop abutted by slidable rack, a recoil spring for the purpose of returning slidable rack to its original position.

1,475,392. MEAT-SLICING MACHINE. GRANTHAM JAQUETTE, Philadelphia, Pa. Filed Jan. 11, 1922. Serial No. 528,531. 5 Claims. (Cl. 146—102.)



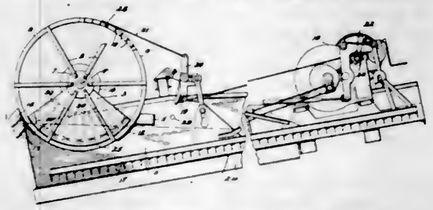
1. In a meat slicing machine, a circular knife, a bearing for same comprising a large cone, a raceway for same, balls for same, a shaft, a small cone and raceway with balls for same concentric with the large raceway.

1,475,393. VESSEL PROPELLED BY GAS DISCHARGED BELOW THE WATER LEVEL. HENRI ARNOLD JOHANNES DE BIJLL NACHENIUS, Haarlem, Netherlands. Filed July 3, 1922. Serial No. 572,583. 3 Claims. (Cl. 114—56.)



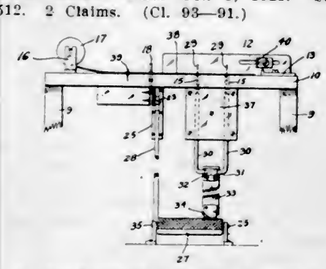
1. In a vessel adapted to be propelled by gas discharged below the boat bottom with no appreciable overpressure, an upwardly sloping stern face for guiding rising gas bubbles from the boat bottom to the surface of the water, said stern face extending substantially the entire width of the vessel, and having an approximately horizontal extension surface substantially flush with the water level.

1,475,394. MAGNETIC ORE SEPARATOR. FRED ALLEN JORDAN, Duluth, Minn. Filed Mar. 22, 1922. Serial No. 545,804. 20 Claims. (Cl. 83—71.)



1. A magnetic separator comprising in combination a smooth surface in such position that unrestrained material at said surface will fall therefrom by gravity, means on the upper side only for creating a magnetic field for said surface causing magnetic particles to adhere thereto, means for passing material to be treated downwardly to said magnetic field near the lower side of said surface and means for mechanically stirring and agitating said material while passing through said field.

1,475,395. CARD-STRINGING MACHINE. DYER T. KENDRICK, Worcester, Mass., assignor to Livermore & Knight Company, Providence, R. I., a Corporation of Rhode Island. Filed Oct. 5, 1921. Serial No. 505,512. 2 Claims. (Cl. 93—91.)

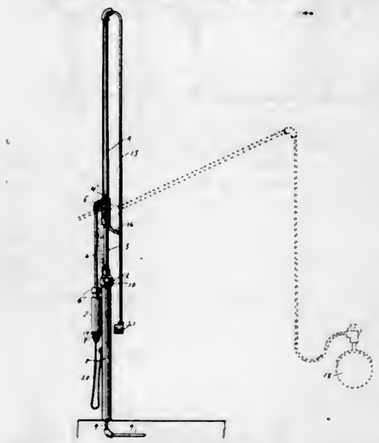


1. In a card-stringing machine, a card-support, a string cutter, a pair of string-engaging members adapted to be moved relatively to said support to extend through holes in the card to engage the string on the opposite side thereof, and manually operable means for moving the string-engaging members to draw the string ends through the card holes by a movement of said members in one direction and for moving said cutter to sever the string when said members are moved in the opposite direction to string-receiving position.

1,475,396. METHOD OF TREATING WATER. PAUL KESTNER, Boulogne-sur-Seine, France. Filed Apr. 16, 1921. Serial No. 461,925. 1 Claim. (Cl. 210—9.)

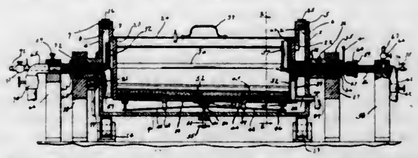
A method of treating water to deoxidize it, employing iron or steel filings or turnings containing from 5 to 6 per cent of mangagese, the manganese acting as a catalyst in the oxidation of the iron and increasing considerably the speed of the reaction which takes place.

1,475,397. AIR STANDARD. HERMAN HILFERINK, Grand Rapids, Mich. Filed Sept. 6, 1921. Serial No. 498,852. 3 Claims. (Cl. 299—77.)



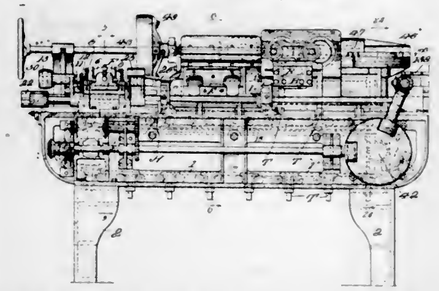
1. In an air standard, a cylindrical supporting standard, a cap revolubly mounted upon said supporting standard, supporting arms mounted in said cap and positioned at right angles in a direct line from opposite sides thereof, a standard secured to, and extending upwardly from the outer end of each of said arms, a yoke pivotally mounted upon the upper ends of said standards, a tubular arm connected with, and extending relatively upward from said yoke, a cylindrical balancing weight connected with said tubular arm to hold it in normal position, a flexible air tube connected at one end with an air supply tank, extending through the supporting standard and the tubular arm and having an air valve connected with its free end.

1,475,398. CHEESE-MAKING APPARATUS. OTTO A. KIELSMEIER, Manitowoc, Wis. Filed Mar. 1, 1922. Serial No. 540,132. 6 Claims. (Cl. 99—2.)



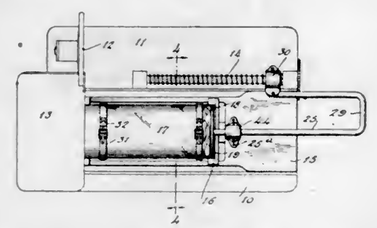
6. A cheese making apparatus comprising substantially concentric spaced drums, means for circulating a tempering fluid within the space between said drums, the inner of said drums having one end provided with a cavity, a pipe communicating with said cavity and extending outwardly through said drum, a disk revolubly mounted adjacent said end and having perforate and imperforate portions and adapted to be rotated to bring either of said portions opposite said cavity, a screen positioned adjacent a portion of the inner periphery of said inner drum, and means extending outwardly through said outer drum for elevating said screen.

1,475,399. CAN-BODY MAKER. ALFRED L. KRONQUEST, Chicago, Ill., assignor to Continental Can Company, Syracuse, N. Y., a Corporation of New York. Filed Aug. 9, 1921. Serial No. 490,895. 42 Claims. (Cl. 113—11.)



3. A can body maker comprising a reciprocating supporting horn, means for moving the can bodies continuously through the machine, means for simultaneously bending the entire side edges of the can body preparatory to interlocking the same while the can body is moving through the machine, and means for interlocking the bent side edges of the can body while the can body is moving through the machine.

1,475,400. MEAT PRESS AND EJECTOR. FERDINAND KRUSE, Port Richmond, N. Y. Filed Sept. 5, 1922. Serial No. 586,091. 4 Claims. (Cl. 146—104.)

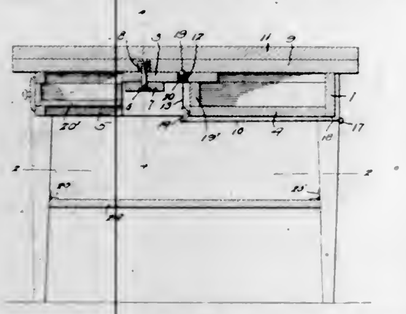


1. A combined meat container and ejector adapted to be used as an attachment to a slicing machine, comprising a base, a pair of saddles carried by said base, a hollow container mounted in said saddles, means to clamp said container to said base, an ejector disc slidably mounted within said container, said ejector disc provided with means to secure the contents of said container thereto and means to rigidly connect said ejector disc with the operating mechanism of the slicing machine to cause said ejector disc to feed the contents of said container towards the knife of the slicing machine.

1,475,401. FOLDING TABLE. ROBERT L. LEATHERMAN and ARTHUR MONROE YOCKEY, Mount Pleasant, Pa. Filed Apr. 7, 1921. Serial No. 459,501. 1 Claim. (Cl. 45—9.)

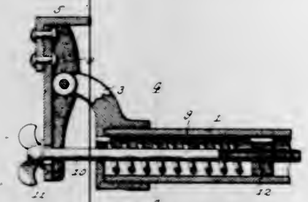
A folding table comprising a substantially rectangular frame provided with a substantially central horizontal transverse panel, and with a pair of spaced longitudinally extending drawer supporting panels at one end, said frame also having an open compartment at its other end; legs readily detachably secured to and supporting said frame; a rectangular main top section pivoted to said transverse panel for horizontal movement into a position either transversely or longitudinally of said frame, said section covering said compartment when in its longitudinal position and exposing the same when in its transverse

position; a latch carried by said horizontal panel for engaging and maintaining said main top section in either position; means operable from adjacent the edge of said



frame for releasing said latch; an auxiliary top section hinged to said main top section; and a shelf hinged to said legs, constituting a brace therefor.

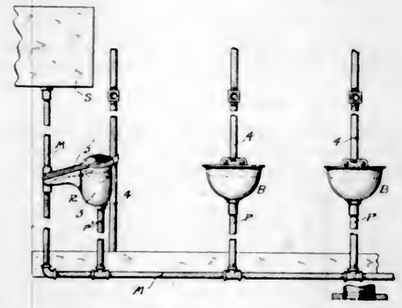
1,475,402. SPRING BED. ARTHUR R. MASTERS, Boise, Idaho. Filed Feb. 4, 1922. Serial No. 534,044. 1 Claim. (Cl. 5—232.)



In a bed bottom structure, the combination of a tubular longitudinal side rail, angle brackets on the ends of the same, end cross rails supported by said brackets, a fabric attached to said cross rails, and an adjustable connection between one of said cross rails and its angle bracket, the same comprising a fixed depending arm on said cross rail having pivotal connection at its midlength to said angle bracket and formed with an enlarged orifice in its lower end, an adjusting screw shaft passing through the enlarged orifice in the lower end of said arm, a screw threaded nut arranged in the tubular end of the aforesaid longitudinal side rail and having operative engagement with the inner end of said shaft, and a coiled spring arranged intermediate of said nut and the end web of the angle brackets on said longitudinal side rail, said spring encircling said shaft and having its ends inserted in said web and said nut respectively whereby said nut is hindered from turning as said shaft is rotated.

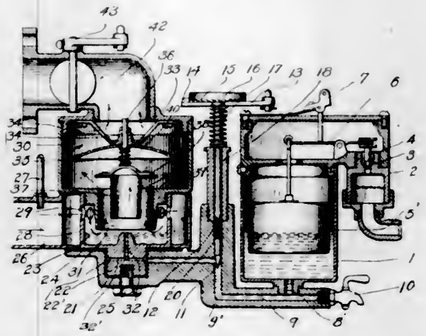
1,475,403. STOCK-WATERING SYSTEM. WILLIAM MITCHELL and HENRY R. KING, Milwaukee, Wis., assignors to Mitchell Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 8, 1919. Serial No. 329,293. 1 Claim. (Cl. 119—80.)

In the stock-watering system the combination with a source of supply, a supply pipe leading therefrom, and a water bowl connected with said supply pipe at a level beneath that of said source of supply of means for maintaining water in said bowl at a substantially constant level, comprising a float chamber arranged exteriorly of said pipe and source of supply on a plane substantially level with said water bowls; a coupling member connecting said chamber with said supply pipe; a valve seat within said coupling member; a valve within said coupling normally engaging said seat to shut off the supply of water from the said bowl a float member positioned within said chamber; and a connection between said float mem-



ber and valve whereby upon a fall of the water level in the bowl and float chamber said valve will be disengaged from its seat and upon the water reaching the desired level said valve will be re-engaged with the seat.

1,475,404. CARBURETOR. ALBERT T. NEWMAN, Emporia, Kans., assignor of one-half to J. A. Rankin, Emporia, Kans. Filed Oct. 31, 1919. Serial No. 334,797. 3 Claims. (Cl. 261—62.)

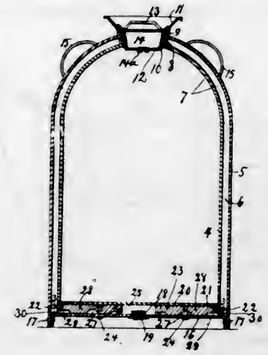


1. In a carburetor, a casing constituting a primary mixing chamber and a secondary mixing chamber, the secondary mixing chamber having a depending tubular flange in the floor thereof to provide a constricted inlet passageway and a discharge opening in the top thereof, the primary mixing chamber surrounding the flange, the floor of the primary mixing chamber being spaced from the lower end of the flange, the walls of the primary mixing chamber being provided with openings, an air inlet passageway surrounding the walls of the primary mixing chamber and adapted to communicate therewith and with the space confined by the tubular flange, a fuel supply nozzle in the floor of the primary mixing chamber, an upwardly movable disk valve for controlling the inlet passageway for the secondary mixing chamber, and a depending tube carried by the disk valve in alignment with the fuel inlet in the bottom of the primary mixing chamber.

1,475,405. MILK CAN. JOHN O'BRIEN, St. Paul, Minn. Filed May 6, 1922. Serial No. 559,070. 3 Claims. (Cl. 220—15.)

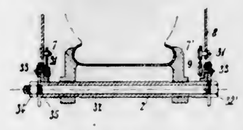
1. A milk-can comprising two cylindrical, concentrically spaced body sections, one smaller than the other, each closed by a bottom, a spider spacing and propping the two bottoms apart and having notches and clearances

connecting the spaces between the bottoms with the space between the cylindrical members, said lower bottom having an aperture through which to extract the air from



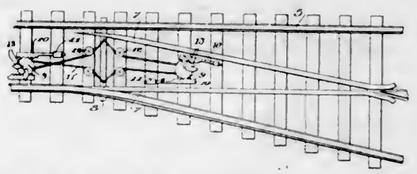
the spaces and thus create a vacuum therein, said smaller body section having in its lower end notches in radial line with some of the notches in the spider.

1,475,406. DRIVING DEVICE FOR AUTOSLEDS. JOCELYN EMILE OLLIVIER, La Vignette, St.-Gervais, France. Filed May 19, 1920. Serial No. 382,599. 9 Claims. (Cl. 301—39.)



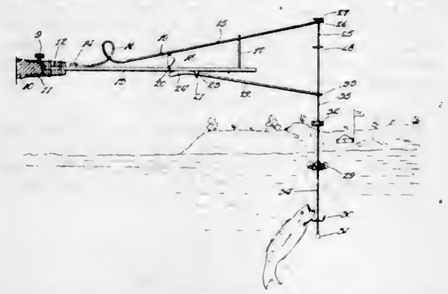
9. A traction device adapted to be mounted upon a wheel comprising rings disposed upon opposite sides of the wheel, anti-slipping means pivotally connected to said rings, and means for supporting said rings upon the wheel comprising a pair of jaws adapted to grip the wheel upon its opposite sides, a hollow rod having threaded portions and adapted to draw together said jaws, a bolt passing through said rod, and plates secured to said rings extending inwardly therefrom and having openings to receive said bolts.

1,475,407. RAILWAY SWITCH. RADE N. PEROVICH, Washoe, Mont. Filed May 8, 1923. Serial No. 637,535. 1 Claim. (Cl. 246—317.)



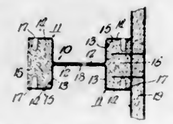
The combination with a railway track, a pair of pivoted switch points, of a pair of rotatable elements one of which being arranged in advance of the switch points points and the other rearwardly thereof, cables connected with each of the rotatable elements and the switch points and elements carried by the rotatable elements adapted to be engaged by a strip carried by the train to rotate one rotatable element to set the switch points and subsequently rotate the other rotatable element to open the switch points.

1,475,408. FISHING TACKLE. ROBERT I. REED, Loveland, Okla. Filed Jan. 10, 1923. Serial No. 611,854. 4 Claims. (Cl. 43—15.)



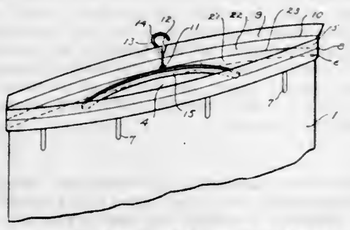
4. The combination with a fishing pole having a socket at one end and a set screw associated with said socket; of a relatively rigid rod fitting in said socket, a spring wire attached adjacent one end of said rod and extending beyond the free end thereof and provided with an eye at its extreme free end, a lever fulcrumed on said rod having an eye at one end in alinement with said first eye, a trip journaled on said spring wire and a stud on said rod to engage with said trip, a cam portion on said lever engaging with said trip when the device is in set position, a fish line engaging with both of said eyes and provided with bait hooks and grab hooks below said bait hooks, spaced washers at the upper end of the line situated one above and one below said first eye permitting the suspension of the fish line by means of the lower washer from said lever and a staple straddling said spring wire and secured on said rod permitting a limited deflection of the spring wire when released.

1,475,409. COMPOSITE STRUCTURE. GEORGE W. RIDDLE, Chicago, Ill. Filed Aug. 28, 1920. Serial No. 406,602. 4 Claims. (Cl. 72—115.)



1. A composite structure of the kind described, comprising a thin sheet material shell providing two oppositely facing channels which are connected together by a web, a nailing mixture in said channels, and means formed from and integral with said channels and extending into said nailing mixture for locking the same in said channels.

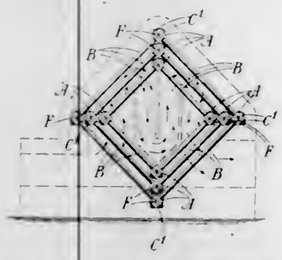
1,475,410. CLOTHES BAG. BERTON I. RIKE, Dayton, Ohio, assignor to The Rike Folding Box Company, Dayton, Ohio, a Corporation of Ohio. Filed June 2, 1921. Serial No. 474,341. 3 Claims. (Cl. 206—7.)



1. In a clothes bag, a bag body sealed at the bottom and sides with an open mouth, means for insertion through a portion of the edge of the mouth of a hanger.

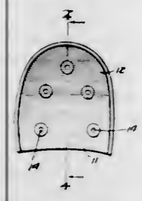
reinforcing means adjacent the bag mouth partially cut away at spaced intervals to permit of folding, means to seal the end of said bag with the hanger therein by folding over upon itself said reinforcing means, and means to permit of the bag when empty to be folded upon itself into a package of smaller area than its greatest dimensions along the line of the cut away portions in the reinforcing means.

1,475,411. WATER-TUBE BOILER. ARTHUR ROSS, London, England. Filed Aug. 31, 1921. Serial No. 497,270. 1 Claim. (Cl. 122—235.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



A polygonal water-tube boiler comprising a plurality of tubes arranged in sets, each set constituting the side of a polygon, and each set comprising a plurality of rows of tubes, a plurality of headers corresponding in number to the number of rows of tubes connecting together each the tubes in two rows at the point of the V formed by two adjacent sides of the polygon, the said rows of tubes extending each perpendicularly to the plane of the polygonal figure, the tubes in the one set being staggered in relation to the tubes of the other set as otherwise would obstruct their removal or inspection, each header having openings in alignment with the tubes in the sides of the headers opposite those from which the tubes lead.

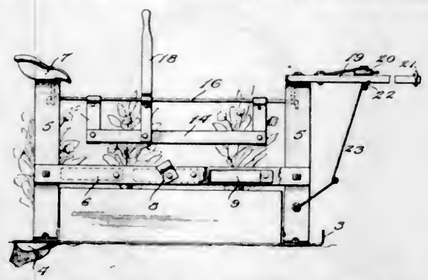
1,475,412. HEEL FOR SHOES. MARK W. SELBY, Portsmouth, Ohio, assignor to The Selby Shoe Company, Portsmouth, Ohio, a Corporation of Ohio. Filed June 29, 1921. Serial No. 481,238. 4 Claims. (Cl. 36—35.)



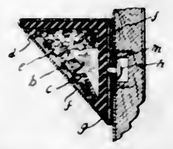
1. A shoe heel comprising a supporting section formed of a fabric impregnated with rubber and having its rear portion reduced in width, and a striking section extending across the rear of said supporting section and having side extensions along the side edges of the reduced portion of the latter and merging into the side edges of the forward portion thereof, the striking section being formed of a softer and more resilient rubber and vulcanized to said supporting section.

1,475,413. BOLL-WEEVIL DESTROYER. JACOB MILTON SHOBERT, Noble, Okla. Filed Nov. 8, 1922. Serial No. 599,685. 1 Claim. (Cl. 43—143.)

An apparatus for the purpose set forth comprising a pair of runners, arches erected on and connecting the runners near their front and rear ends, rigid side beams connecting the arches at intervening points in the height thereof, flat-faced rigid deflectors secured to the inner sides of the beams and projecting inwardly and rearwardly therefrom, a longitudinal rod secured at its ends to the tops of the arches, inverted V-shaped frames mounted on said rod for oscillation, means whereby said frames may be oscillated, longitudinal beater plates secured to and extending between the lower ends of said frames above the deflectors, and draft-applying devices connected to the front arch.

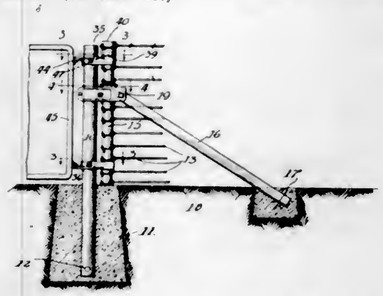


1,475,414. DETACHABLE ARMREST. EMORY GLENN SIMPSON, Detroit, Mich., assignor to Fisher Body Corporation, Detroit, Mich., a Corporation of New York. Filed May 26, 1922. Serial No. 563,768. 4 Claims. (Cl. 296—1.)



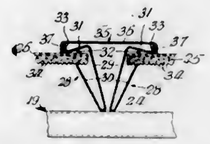
4. In a body construction, the combination of a vertical arm rest support, an arm rest comprising a rubber core with a metal back plate vulcanized thereto, and means for securing the back plate to the support.

1,475,415. FENCE. CHRISOPHER SWANSON, Laporte, Ind. Filed June 20, 1921. Serial No. 478,916. 6 Claims. (Cl. 256—41.)



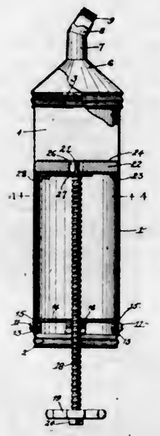
1. In a fence, the combination with a post, of a tightening shaft journaled parallel with and adjacent thereto, a brace bar co-operating with the post, a bearing and detent member secured to the post intermediate its ends, said member having a recess to co-operate with the post, a bearing for the shaft, a socket for the brace bar, wires secured to the shaft, detent mechanism between the shaft and the member, consisting of ratchet teeth on the member about the upper edge of the bearing, and a transverse pin extending through an elongated slot in the shaft.

1,475,416. GLAZING BAR FOR SKYLIGHTS AND THE LIKE. JOSEPH SYLVAN, Chicago, Ill. Filed June 16, 1921. Serial No. 477,886. 6 Claims. (Cl. 108—16.)



1. A glazing bar comprising a channel-like member having side wall parts arranged to define a longitudinally extending slot along one side of said channel like member, adapted to receive the marginal part of a skylight panel, said member being capable of a lateral rocking movement about its bottom edge from an upright to an inclined position under the weight of the panel to cause the parts thereof defining the slot to clamp upon the marginal part of the panel.

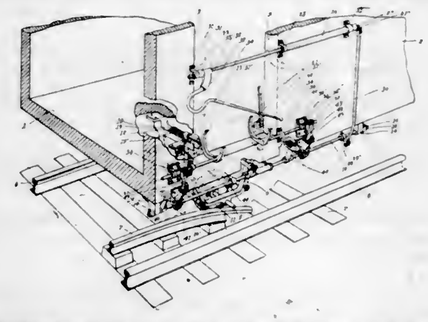
1,475,417. GREASE GUN AND CARTON. OSCAR H. WATSON, Brentwood, N. Y. Filed Feb. 23, 1922. Serial No. 538,452. 6 Claims. (Cl. 221—79.)



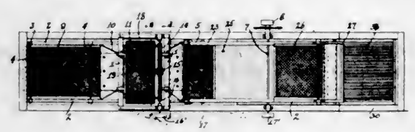
1. A carton, cylindrical in form, having closures at its opposite ends, and in one end, under one of said closures, having a piston, a rod for operating said piston, a latch carried by the piston for cooperating with the rod, and a spider for supporting the rod, the rod and spider having interacting means enabling the rod to be shifted relatively to the spider.

1,475,418. MAIL-POUCH CATCHING AND DELIVERING DEVICE. CHRISTOPHER J. M. WEBER and AXEL OLSON, St. Paul, Minn. Filed June 15, 1922. Serial No. 568,519. 8 Claims. (Cl. 258—16.)

1. A device of the class described for railway mail coaches comprising in part in combination, a stationary member on the track located between the rails thereof, a rock shaft carried by the coach extending longitudinally thereof, mechanism including a movable cam to be actuated thereby when the cam is moved, said mechanism being supported on the coach and operatively connected to said rock shaft, said cam being adapted to engage with said stationary member to be moved thereby concurrently with the movement of the coach over the latter, and a pouch catching hook swingably mounted on the outside of the coach and normally suspended in inoperative position and operatively connected to said rock shaft to be thereby moved into operative position when the latter is actuated.

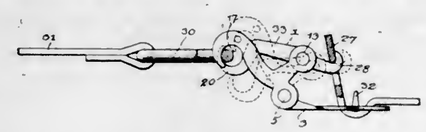


1,475,419. PRUNE DIPPER AND GRADER. ELMER S. ANDERSON, San Jose, Calif., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif., a Corporation of California. Filed Aug. 14, 1923. Serial No. 657,353. 22 Claims. (Cl. 146—196.)



1. A machine for the described purpose comprising a shaker adapted to receive the fruit at one end, advance it, and discharge it at the other end; a dipping member associated with said shaker at a point between the receiving and discharge ends thereof; and means for transferring the fruit from said shaker to said dipping member and back again to said shaker.

1,475,420. SNAP AND BUCKLE. LOUIS P. BABEUF, Gravelbourg, Saskatchewan, Canada. Filed Mar. 6, 1922. Serial No. 541,505. 7 Claims. (Cl. 24—165.)

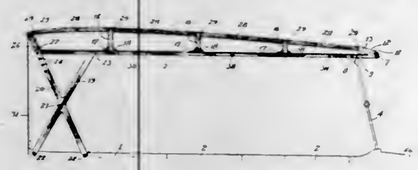


1. A device of the character described including a buckle having a bracket extension and a snap hook pivoted to said extension, said snap hook being strap controlled, said strap being held by said buckle, said snap hook consisting of pivotally connected jaw members.

1,475,421. AUTOMOBILE-TOP FRAME. GEORGE E. BISHOP, Cleveland, Ohio. Filed May 1, 1920. Serial No. 378,186. 2 Claims. (Cl. 296—102.)

2. In an automobile top frame, the combination of metal side members; a curved front wood member supported thereby; a wood vizor having an upper convex surface supported by said side and front members; intermediate transverse wood members mounted on said side members; supporting members for the frame; a

curved rear wood member connected to said side members; intermediate longitudinal wood braces; and metal plates secured to said braces and the front, rear and



transverse members at their respective intersections, said braces and members being countersunk to receive said plates.

1,475,422. PROCESS FOR REFINING TIN AND ANTIMONY. GEORGES BONNARD, Plombieres St. Marcel, France. Filed Mar. 15, 1920. Serial No. 366,008. 5 Claims. (Cl. 75—68.)

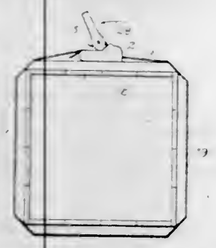
1. The herein described process of refining tin and antimony which comprises subjecting crude tin to the action of drychlorine, separating the liquid chlorides thus obtained from the solid and semi-solid materials, adding water to said liquid mixtures to produce a solution of stannic chloride and decompose the chlorides of antimony, arsenic and sulphur, separating out the solution of stannic chloride, and electrolytically obtaining tin from such solution.

1,475,423. VIOLIN. ALFRED BRANN, Seattle, Wash. Filed Sept. 16, 1922. Serial No. 588,640. 1 Claim. (Cl. 84—275.)



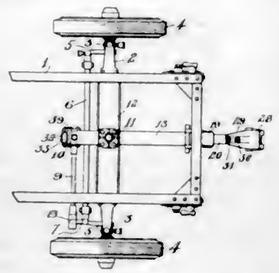
A violin having a body portion and a neck portion, that part of the neck underlying the strings being of hollow formation and fully open to the interior of the body, the under portion of the neck beyond the body being formed with a valve controlled outlet communicating with the hollow portion.

1,475,424. FORM CLAMP. GEORGE B. BOSCO, Chicago, Ill. Filed Feb. 5, 1923. Serial No. 617,039. 10 Claims. (Cl. 24—19.)



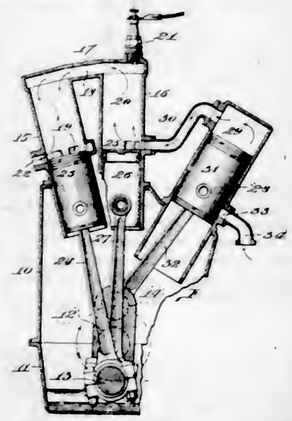
1. A form clamp comprising a flexible tie element, a collar mounted on said element and adapted for adjustment longitudinally thereof, means for locking said collar to said element, and a detachable tool arranged to grip said tie element and being adapted to be fulcrumed on said collar for pulling said element relative to said collar.

1,475,425. DRAFT GEAR FOR TRAILERS. FRANK D. BURGESS, Newark, N. Y., assignor to Arcadia Trailer Corporation, Newark, N. Y., a Corporation. Filed July 25, 1919. Serial No. 313,300. 1 Claim. (Cl. 280—33.55.)



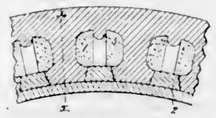
A draft bar comprising a pivotally mounted rear member formed of two channel pieces arranged with their channels disposed toward each other, a pair of guide blocks arranged between the channel members, one of which is arranged at the forward ends of the members, bolts passing through the flanges of the channel pieces securing the guide blocks between the channel members and securing the channel pieces together, the bolts of the guide block at the forward end of the channel members being removable to permit the forward guide block to be removed, a forward member guided on both of the guide blocks and provided with two fixed abutments, two movable abutments arranged on the forward member between the two fixed abutments, and a spring arranged about the forward member between the movable abutments and holding the latter against the fixed abutments on the forward member and against the opposed faces of the guide blocks.

1,475,426. INTERNAL-COMBUSTION ENGINE. EVERETT R. BURTNETT, Los Angeles, Calif. Filed Apr. 30, 1923. Serial No. 635,672. 6 Claims. (Cl. 123—53.)



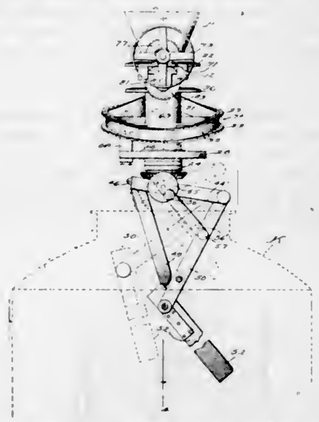
5. In an internal combustion engine, a unit of three radially arranged cylinders that are offset with respect to each other longitudinally of the crank shaft of the engine, two of said cylinders functioning as combustion cylinders, the third cylinder functioning for the pumping and precompression of gaseous fuel, a piston arranged for operation within each cylinder, a crank shaft having two cranks, the pistons in two of the three cylinders being connected to one of said two cranks and the piston in the third cylinder being connected to the other crank.

1,475,427. CUSHION TIRE OF THE CHAMBER TYPE. JOHN CAIRNES, South Norwood, England. Filed Oct. 5, 1920. Serial No. 414,880. 1 Claim. (Cl. 152—1.)



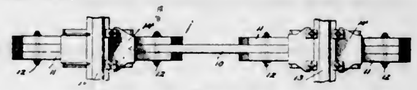
A cushion tire comprising a rubber body portion, a series of chambers formed in the body portion, a series of relatively large openings in the base of the body portion one in alignment with each chamber and communicating therewith, a stiffening and closing plug in each opening to seal the chambers after moulding and a single continuous arched rib formed integral with the body portion and extending transversely across the outer portion of each chamber, said rib springing from points adjacent the inner face of the closing plug and being of substantially uniform cross sectional area throughout its length, the said tire being vulcanized to a rim.

1,475,428. FABRIC PILER. HORACE JOHNSON CARTER, Wilmington, Del. Filed Dec. 27, 1919. Serial No. 347,869. 20 Claims. (Cl. 8—19.)



1. In a fabric piler, a guide chute, means for causing the lower end of said chute to travel in a substantially spiral path, a second chute disposed beneath the lower end of the first mentioned chute and traveling in the same path therewith, and means to cause said second chute to oscillate in a direction transversely of said spiral path.

1,475,429. BUILT-UP TIE. WILLIAM G. COUGHLIN, Philadelphia, Pa. Original application filed Aug. 14, 1918, Serial No. 249,882. Patent No. 1,441,401, dated Jan. 9, 1923. Divided and this application filed Sept. 25, 1922. Serial No. 590,411. 2 Claims. (Cl. 238—36.)



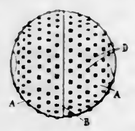
2. A composite wooden railway tie consisting of a single central board or plank of greater length than the gauge of the track, a short length of board secured on each side of said central board at each end thereof, and arranged in position to lie beneath the rails of the trick when the tie is in use.

1,475,430. ADVERTISING DEVICE OR TOY. JOHN SPEDDING CURWEN, Heversham, England. Filed Feb. 27, 1922. Serial No. 539,596. 10 Claims. (Cl. 40—137.)



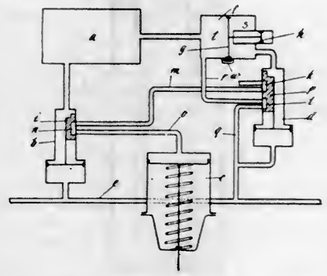
1. In an advertising device or toy of the kind described, a sheet of transparent material having on its front face a series of parallel ribs of convex cross-section each constituting a cylindrical lens, arranged close together side by side and having at its back a multiple-part figure for display composed of a plurality of sets of parallel lines, one set for each part, whereof the lines for each set are parallel with said ribs and are spaced apart to correspond to the central longitudinal axes of the ribs, the lines of one set being interposed between the lines of another set and differing therefrom in character.

1,475,431. AUTOMATICALLY-ACTING AND PERMANENTLY-RESIDING TUBE CLEANER. DAVID EVANS, Burry Port, England. Filed May 2, 1922. Serial No. 558,003. 1 Claim. (Cl. 15—104.06.)



An automatically acting and permanently residing tube cleaner consisting in a spherical shell, casing or body, integral projecting roughened edges connected with said body and a buoyant core contained in said body, as and for the purpose stated.

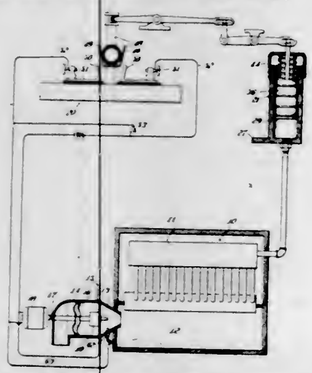
1,475,432. VALVE FOR SINGLE-CHAMBER AIR-PRESSURE BRAKES. WILHELM HILDEBRAND, Berlin, Germany, assignor to Handel-Maatschappij H. Albert De Bary & Co., Amsterdam, Netherlands. Filed Apr. 10, 1923. Serial No. 631,141. 2 Claims. (Cl. 303—74.)



1. In a single chamber compressed air brake, a train pipe, an auxiliary air reservoir, a brake cylinder, a connection between said reservoir and said cylinder, a

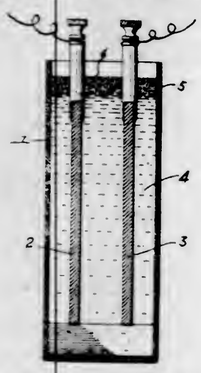
connection between said cylinder and the atmosphere, a distributing valve controlling both said connections, a regulating container comprising two chambers of variable capacity divided by a reciprocable differential piston, one of said chambers being connected with said reservoir and said train pipe, and a filling valve adapted to control the connection between said chamber and said train pipe and also to control the connection between said cylinder and the atmosphere, said piston being adapted to control the movements of said filling valve.

1,475,433. CONTROLLER FOR FUEL-OIL BURNERS. FINN S. HUDSON, Kansas City, Mo., and EDGAR G. RHOADS, Oak Park, Ill. Filed Feb. 24, 1921. Serial No. 447,582. 3 Claims. (Cl. 158—45.5.)



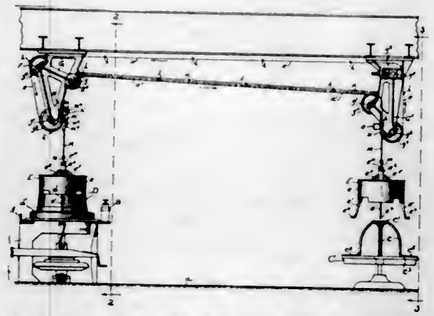
3. In a device of the class described, a steam-generating boiler having a fire-pot, a fuel-oil atomizer, an air-blower to deliver the fuel to the fire-pot, an electric motor for the blower, an electric circuit for the motor having a switch, a cylinder having a piston and communicating with the boiler below the piston, a spring restraining the piston in its cylinder, an adjustable plate to vary the tension of the spring, a cap on the piston having an adjustable pin, and a lever co-operating with the pin and switch to open the latter when the piston is protracted and to close it when the piston is retracted.

1,475,434. SECONDARY OR STORAGE BATTERY. WILLIAM ERNEST KERSHAW and CHARLES D. GALLOWAY, Philadelphia, Pa. Filed Dec. 29, 1920. Serial No. 433,848. 7 Claims. (Cl. 204—29.)



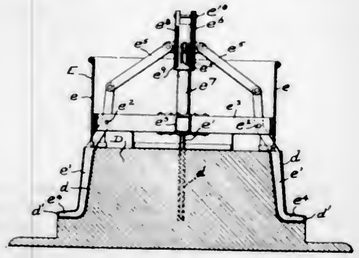
3. A secondary or storage battery having its electrolyte provided with a covering layer of flaked gilsonite, substantially as described.

1,475,435. WIRE-BLOCK STRIPPER. ELMER E. KILMER and FRED P. GROTH, Chicago, Ill., assignors to Interstate Iron and Steel Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 15, 1921. Serial No. 501,008. 11 Claims. (Cl. 242—79.)



5. In a device of the class described, a stripping-reel having pivotally mounted coil-supporting legs, means on the reel to radially expand and contract the legs, a suspending device for the reel having a collapsible hook, a carrier having cross-rods, means to guide the carrier in a horizontal run and depending end runs, a bracket adjacent the lower end of one of the end runs to support the hook in the path of cross-rods, and a trip adjacent the lower end of the other end run to release the hook from a cross-rod.

1,475,436. WIRE-BLOCK STRIPPER. ELMER E. KILMER and FRED P. GROTH, Chicago, Ill., assignors to Interstate Iron and Steel Company, Chicago, Ill., a Corporation of Illinois. Original application filed Sept. 15, 1921, Serial No. 501,008. Divided and this application filed June 21, 1922. Serial No. 569,827. 5 Claims. (Cl. 242—84.)

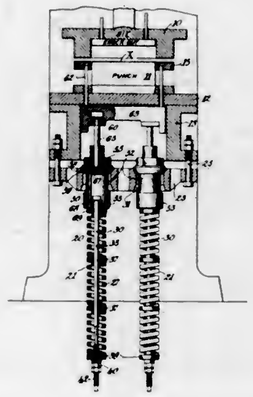


1. In a device of the class described, a wire-coiling block, a stripping-reel constructed to receive the wire coiled on the block and comprising a drum carrying a central vertical stem, a reciprocating sleeve on the stem, legs pivoted in the drum and constructed with coil-supporting ends projecting below the drum, and links pivotally connecting the upper ends of the legs to the sleeve to expand their lower ends to the contour of the block when the sleeve is raised on its stem and to collapse them when the sleeve is lowered.

1,475,437. PRESS HAVING SPRING-PRESSED BLANK HOLDERS. WILLIAM KLOCKE, Woodhaven, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a Corporation of West Virginia. Filed June 30, 1921. Serial No. 481,683. 17 Claims. (Cl. 113—46.)

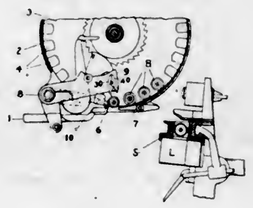
1. A drawing press comprising a blank-holder, and means for resisting the movement of said blank-holder, said means comprising a spring support and a plurality of springs between said blank-holder and spring support,

means in conjunction with individual springs for adjusting the force or resistance thereof, whereby greater resistance may be imparted to said blank-holder at predetermined points than at other points, said spring support



comprising a frame common to a plurality of said springs, and means for adjusting the position of said frame, whereby the force or resistance of the several springs bearing therein, may be simultaneously varied.

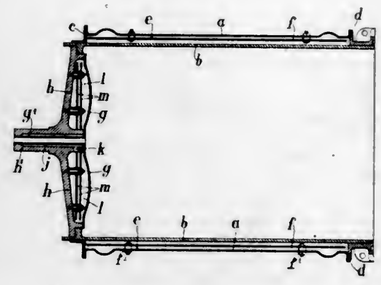
1,475,438. BOBBIN-TRANSFERRING MECHANISM. ACHILLE LAFLAMME, Lawrence, Mass. Filed Jan. 23, 1923. Serial No. 614,464. 2 Claims. (Cl. 139—244.)



1. In a transferring mechanism for automatic filling replenishing looms, the combination with a shaft having a stop member, a slideway, a pivot part and a squared end; of a downwardly extending arm fixed to the squared part of the shaft and terminating in a fixed jaw; a movable arm pivoted on the pivot part of the shaft adjoining the fixed arm and terminating in a movable jaw and also having a recess with a sloping edge; a spring to normally keep the movable jaw away from the fixed jaw; a push bar slidable on the slideway of the shaft and having an adjusting slot; a nose which engages said sloping edge, and means to adjust said nose along said slot in the push bar.

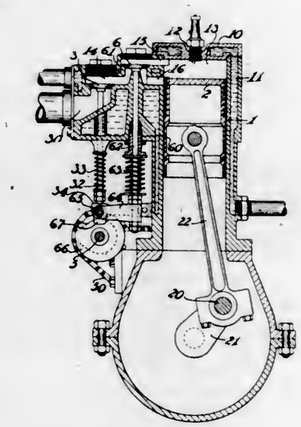
1,475,439. HEAT-UTILIZING APPARATUS. JEAN LAMASSIAUDE, Limoges, France. Filed Nov. 3, 1919. Serial No. 335,497. 6 Claims. (Cl. 220—9.)

1. The combination with a receptacle having a vacuum chamber arranged on its exterior, of a metallic plate of small radiating power forming a parathermic screen which is supported only by the outer wall of the vacuum cham-



ber at a fixed distance from the latter and spaced from the outer wall of the receptacle, the space between the plate and outer wall of the receptacle being unobstructed.

1,475,440. INTERNAL-COMBUSTION ENGINE. WALTER J. LARSON, Wrangell, Territory of Alaska, assignor of one-fourth to Frank E. Gingrass and one-fourth to Herbert E. Harvie, Wrangell, Territory of Alaska. Filed May 9, 1921. Serial No. 468,050. 6 Claims. (Cl. 123—37.)



1. A cylinder for internal combustion engines having a pocket communicating therewith by one port leading to the clearance space and by a second port axially spaced from the first towards the opposite end of the cylinder, and having intake and exhaust ports communicating with said pocket and a valve seat in said first port between the pocket and the clearance space.

1,475,441. EXHAUST ARRANGEMENT FOR STEAM EJECTORS. MAURICE LEBLANC, Paris, France, assignor to Ste. Anonyme Pour l'Exploitation de Procedes Westinghouse Leblanc, Paris, France. Filed Oct. 27, 1916. Serial No. 128,012. 2 Claims. (Cl. 261—124.)

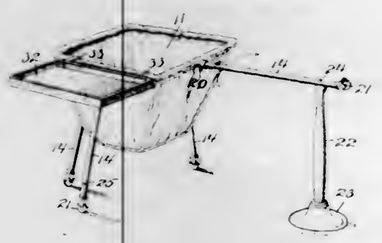
1. Apparatus for stabilizing an ejector having a high ratio of compression and acting as the air pump of a condenser, this apparatus comprising a perforated mem-

ber adapted to engage the end of the discharge tube of the ejector, a reservoir into which said discharge tube extends, said perforated member being situated coaxially



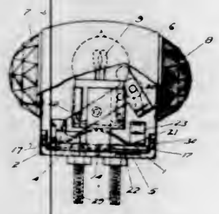
with said tube and the perforations in said member being so disposed that the jets of vapor escaping through these perforations have substantially the same direction.

1,475,442. BABY WALKER. FREDERICK W. MANGEA, Newark, N. J. Filed Aug. 9, 1922. Serial No. 580,614. 2 Claims. (Cl. 155—23.)



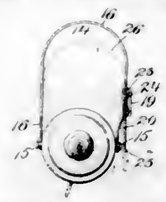
1. A baby walker comprising a frame, a seat portion suspended within the frame, legs mounted on the frame to support it, a standard, at least one of the legs being secured so as to be swung outward from the frame, and means for pivoting the extended leg to the standard.

1,475,443. PARKING LAMP. CARL T. MASON, East Orange, N. J., assignor to Tiffany Manufacturing Company, Newark, N. J. Filed Dec. 8, 1921. Serial No. 520,824. 14 Claims. (Cl. 240—7.)



1. In a device of the class described, a substantially flat base, a socket carrying a lamp bulb fastened to said base, a cover attached directly to said base and enclosing the socket and lamp, said cover carrying light lenses and a switch carried on the cover for controlling the lamp circuit.

1,475,444. TOOL FOR MANUAL DIRECTION. HAGAR B. MAYBERRY, Gladstone, N. J. Filed Dec. 6, 1922. Serial No. 605,316. 5 Claims. (Cl. 172—15.)



2. A tool for manual direction comprising an electric motor, a ball on the motor, said ball being adapted to clamp the human arm adjacent the elbow, a tool for the hand, and a flexible shaft connecting the motor and the tool.

1,475,445. INSECTICIDE. NEIL E. MORGAN, Ogdensburg, N. Y. Filed Sept. 28, 1921. Serial No. 503,779. 4 Claims. (Cl. 167—6.)

1. A foliage-adherent insecticide for dry application consisting of a mixture of an arsenical insect destroying agent, and a powdered hydrous magnesium silicate compound.

2. A foliage-adherent insecticide for dry application consisting of a mixture of calcium arsenate, and a powdered hydrous magnesium silicate compound.

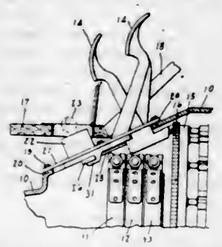
3. A foliage-adherent insecticide for dry application consisting of a mixture of an insect destroying agent, and a powdered hydrous magnesium silicate compound.

4. A foliage-adherent insecticide for dry application consisting of a mixture of an insect destroying agent, and a powdered hydrous magnesium silicate compound, the amount of the former being about four times that of the latter.

1,475,446. PROCESS FOR THE MANUFACTURE OF ARTIFICIAL RESINS FROM PHENOL AND FORMALDEHYDE. ISIDOR POLLACK and ERICH MÖHRING, Vienna, Austria. Filed Apr. 20, 1922. Serial No. 555,699. 6 Claims. (Cl. 260—4.)

1. Process for the manufacture of coloured, transparent, artificial resins from phenol and formaldehyde, in which to one molecule of a simple phenol, more than one molecule of formaldehyde is added and caused to react in the presence of a weak organic acid, characterized by adding to the mixture after separation of the resin so much of a volatile base, that the point of neutralization of said mixture is slightly passed.

1,475,447. LOCKING DEVICE FOR MOTORS. FRANK I. REMY, Indianapolis, Ind. Filed Mar. 4, 1922. Serial No. 541,037. 4 Claims. (Cl. 70—126.)



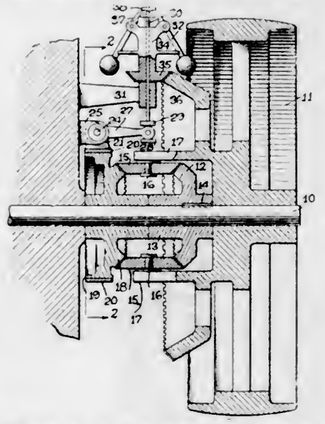
1. In a lock for a motor driven vehicle, the combination with a driving motor having a fly wheel thereon provided with peripheral teeth, and a removable part on said vehicle, of a plate adapted to be substituted for said

removable part and secured to said vehicle, a locking mechanism, a key actuated locking pin, a cross bar rigidly secured on said pin so as to be turned by said key, a locking member pivoted to said plate in position to engage and lock said fly wheel against rotation, a connecting rod joining said cross bar and locking member, and means engageable by said cross bar when said member is moved to locking position for locking said plate on said vehicle.

1,475,448. ELECTRICAL TRANSMISSION OF COMMUNICATIONS. HAROLD ROWNTREE, Pass Christian, Miss. Filed May 16, 1921. Serial No. 470,070. 10 Claims. (Cl. 250—2.)

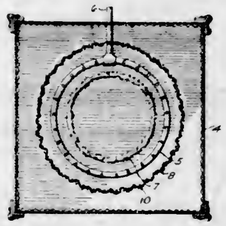
1. The method of electrical signaling which comprises continuously altering a plurality of characteristics of a transmitted carrier current in a predetermined sequence of nature, type or degree of alteration, and simultaneously modulating the carrier current in accordance with the signal to be transmitted.

1,475,449. VARIABLE-SPEED DRIVE GEAR. BERTRAM H. SAUNDERS, Paterson, N. J. Filed Dec. 6, 1921. Serial No. 520,280. 6 Claims. (Cl. 74—95.)



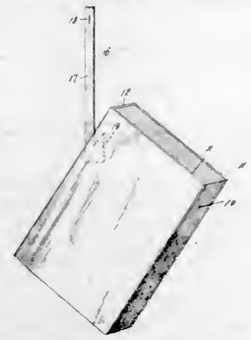
1. A differential driving gear comprising a shaft, a main driving member loose on the shaft, a gear tight on the shaft, a second gear loose on the shaft, a planetary driving connection supported in part by the main driving member between the two gears, a governor driven by the main driving member, and means actuated by the governor for controlling the speed of the second gear.

1,475,450. GAS HEATER. AUGUSTUS G. SCHNEIDER, Arlington, Calif. Filed Aug. 28, 1922. Serial No. 584,677. 1 Claim. (Cl. 126—92.)



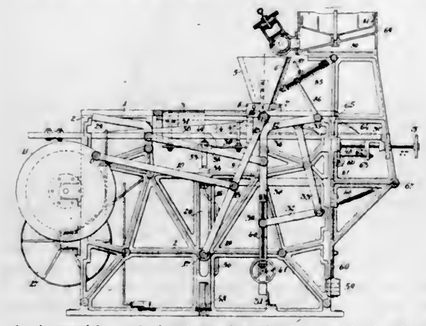
A heater including a columnar radiating back covered with shredded asbestos, an outer reticulated front enveloping said back and spaced therefrom and coated with plastic material without closing the openings in the reticulated material, and an annular burner housed in the space between said back and front.

1,475,451. HANGER FOR BOOKS. MORITZ D. SCHWARTZ, New York, N. Y. Filed Feb. 6, 1923. Serial No. 617,372. 3 Claims. (Cl. 281—15.)



3. The combination with a book having a slot in its back, of a hanger for said book comprising a strip adapted to be extended through said slot, and an enlargement on said strip interposed between the leaves of said book and abutting against the inner face of the back of the book, said enlargement extending at an acute angle to the longitudinal axis of said strip.

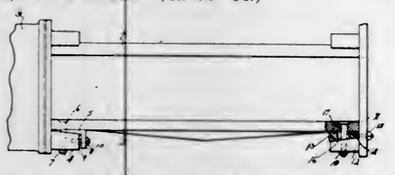
1,475,452. MACHINE FOR THE AUTOMATIC SPREADING AND FILLING OF WAFFLE LEAVES ONE ABOVE THE OTHER. EUGEN SEITZ, Budapest, Hungary. Filed Feb. 9, 1921. Serial No. 443,721. 2 Claims. (Cl. 107—27.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A machine of the type described, a table having a cavity therein, a movable plate arranged in said cavity, a slide reciprocable over the table and cavity and having a discharge opening for material therein, a hopper supported on said slide, a wedge-shaped member supporting the plate and movable relatively thereto, means operating to effect a step by step movement of said wedge member in one direction, and means carried by said slide engageable with the first mentioned means to actuate the latter.

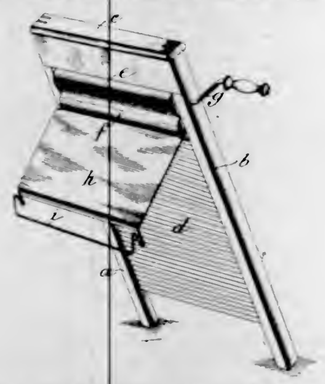
2. A machine of the type described comprising a table having a cavity therein, a plate movably mounted in said cavity, a wedge-shaped support for said plate movable relatively to the latter, means for elevating said plate independently of said support, a slide reciprocally mounted on said table movable across the cavity therein and having a discharge opening for material, a hopper mounted on said slide for containing material means for producing a step by step movement of the wedge-shaped support in one direction, actuating means for the first mentioned means carried by the slide operating when the latter approaches the limit of its travel in one direction, and means for automatically returning the wedge-shaped support to initial position.

1,475,453. ADJUSTABLE GUIDE FOR CROSSHEADS OF LOCOMOTIVES AND THE LIKE. HORACE SHINN, Maple Shade, N. J. Filed Mar. 25, 1922. Serial No. 546,659. 3 Claims. (Cl. 74—84.)



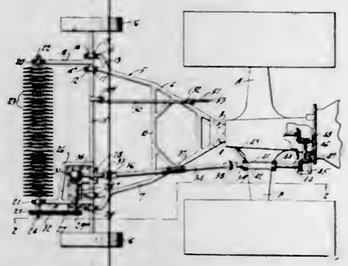
1. In a device of the character described, two stationary supporting blocks, said blocks having their upper surfaces inclined, a wedge shaped slide superimposed upon each of said blocks, a cross head guide resting upon said slides, means for forcing the slides longitudinally of the guide whereby the latter will be raised, and means for securing the ends of the guide securely upon the slides.

1,475,454. DOMESTIC WASHING BOARD. ALFRED SHUTTLEWORTH, London, England, assignor of one-half to Frank Smith, London, England. Filed Mar. 6, 1923. Serial No. 623,185. 3 Claims. (Cl. 68—29.)



1. In combination with a washboard having a frame, a pair of wringing rollers mounted in the frame of the board above the rub-surface thereof, and a plate having a width substantially equal to the length of the rollers and connected to the board below the contacting faces of the rollers, the free end of said plate being provided with means for engaging the upper edge of a tub to thus permit said plate to be used as a prop for the board and also as a clothing-guide or chute.

1,475,455. AGRICULTURAL IMPLEMENT. WILLIAM L. SKINNER and JOHN J. KING, Thomaston, Ala. Filed Oct. 18, 1922. Serial No 595,292. 1 Claim. (Cl. 97—40.)



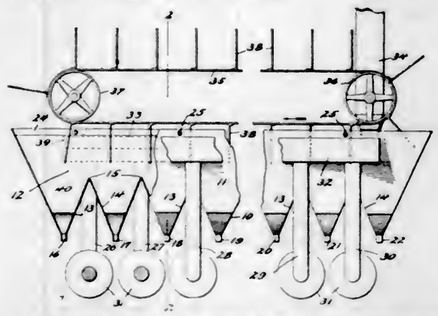
An implement attachment for tractors comprising a frame having its forward end equipped with means for connection with the draw bar of a tractor, a rock shaft journaled transversely of the frame and carrying ground engaging wheels rotatable thereon, rearwardly extending arms secured upon the shaft, an implement carrying shaft journally supported by said arms, a counter-shaft journaled in said frame in spaced parallel relation to said shafts, an operative connection between the counter-shaft and the implement carrying shaft for driving the same, a forwardly extending shaft journaled in the frame and operatively connected with said counter-shaft, a power take-off device driven from and engaging a rotary element of the tractor transmission and including a rearwardly extending shaft supported from the rear axle housing of the tractor, and a telescopic connecting shaft connected with said forwardly extending shaft and said last named shaft by universal joint connections, and a lever mechanism on the frame connected with an arm on said first named shaft whereby to raise and lower the implement, the universal joints and the telescopic adjustability of the last named shaft permitting said raising.

1,475,456. OIL-WELL TOOL. WENDELL P. STAMPFLI, Healdton, Okla. Filed Mar. 6, 1922. Serial No. 541,386. 5 Claims. (Cl. 294—86.)



1. A device of the type described comprising a cylinder, a pair of jaws pivotally carried by said cylinder at one end thereof, yieldable means for forcing said jaws together, said jaws being held apart by an object placed therebetween.

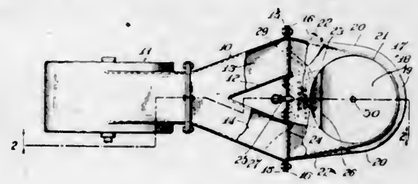
1,475,457. MAGNETIC SEPARATOR. WALTER G. SWART, Babbitt, Minn. Filed Aug. 18, 1922. Serial No. 582,785. 27 Claims. (Cl. 83—71.)



1. A magnetic separator comprising in combination two horizontally elongated surfaces spaced a short distance apart horizontally, means for creating a magnetic field

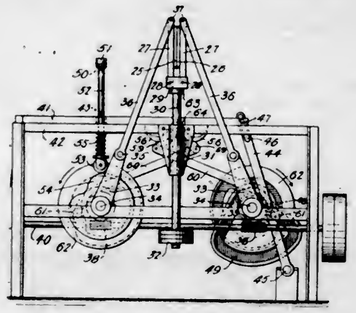
with its lines crossing the space between said surfaces from opposite sides, means for supplying crushed ore to the space between said surfaces above said magnetic field and means for mechanically stirring magnetic material suspended in said field and moving it along said surfaces in said field horizontally to the end and out of said field and means for causing water to flow downwardly through said field between said surfaces.

1,475,458. LIQUID-FUEL BURNER. HUDSON A. TEDMAN, Galesburg, Ill., assignor to Winslow Boiler & Engineering Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 25, 1920, Serial No. 419,252. Renewed Mar. 15, 1923. 7 Claims. (Cl. 158—28.)



1. In a liquid fuel burner, a chamber having its walls inwardly inclined to form a relatively restricted flame discharge opening, an air supply device having air-inlets at the sides of the chamber constructed to introduce air into the chamber in lateral streams, and an oil supply between the air-inlets.

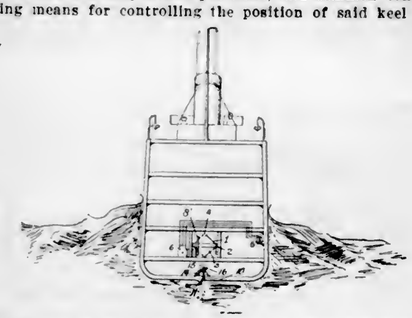
1,475,459. COCONUT-HUSKING MACHINE. DWIGHT TENNEY, Philadelphia, Pa., and WILLIAM D. WALSH, Brooklyn, N. Y., assignors to The Franklin Baker Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 8, 1921. Serial No. 450,689. 44 Claims. (Cl. 146—10.)



1. In a machine of the character described, cooperating relatively separable knives and means for driving said knives in closely adjacent relation into an object and for then separating the knives at their outer ends to split apart portions of the object.

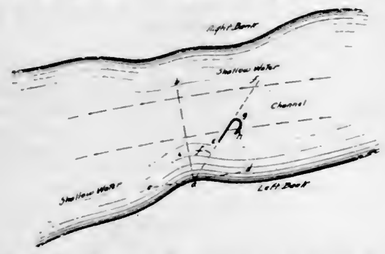
1,475,460. STABILIZED SHIP. HERBERT H. THOMPSON and ALEXANDER E. SCHEIN, Brooklyn, N. Y., assignors to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 14, 1919. Serial No. 289,991. 8 Claims. (Cl. 114—122.)

3. In combination, a ship, a gyroscopic stabilizer therefor, a keel for said ship, said keel being adjustable to operative and inoperative positions, and common controlling means for controlling the position of said keel and



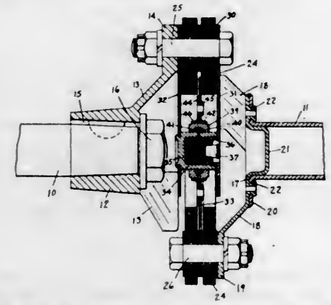
for rendering said stabilizer operative, said means being adapted to render said stabilizer and keel operative separately or in combination.

1,475,461. STREAM IMPROVEMENT. RICHARD H. THORNTON, Portland, Oreg. Filed Nov. 23, 1922. Serial No. 602,786. 1 Claim. (Cl. 61—4.)



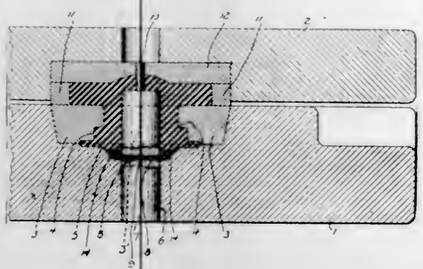
Means for directing the current of a stream so as to make land-forming deposits of its silt, said means consisting of a wall built at an acute angle up stream from a point located in the shallow waters off one shore to a point located in the same side of the channel of the river, such wall composed of a long straight arm terminating at that end projecting into the channel in a short arm curved back upon itself.

1,475,462. UNIVERSAL JOINT. EDWARD A. TURNQUIST, Wabash, Ind. Filed Aug. 11, 1922. Serial No. 581,078. 12 Claims. (Cl. 64—96.)



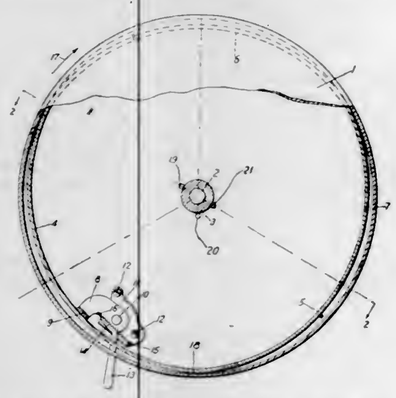
1. A universal joint construction including the combination with driving and driven spider frames, and an annular member secured alternately in succession to the arms of the spider frames, of a plurality of equalizing yielding spider plates connected respectively with said spider frames, said spider plates being spaced apart.

1,475,463. METHOD OF MAKING BATTERY VENTS. HARRY WEIDA, Highland Park, N. J., assignor to India Rubber Company, a Corporation of New Jersey. Filed Nov. 29, 1921. Serial No. 518,558. 2 Claims. (Cl. 18—55.)



1. That method of making a substantially hard rubber article in a cavity mold with a notched core-pin, which consists in, forming the article by vulcanization in the mold from hard rubber composition except in the region of the core-pin where notched in which region the compound is of a composition sufficiently distensible after vulcanization to permit withdrawal of the core-pin and subsequently removing the core-pin.

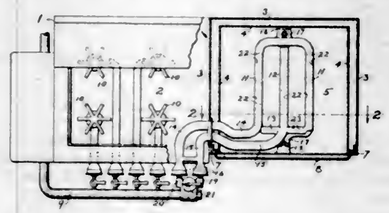
1,475,464. TURNTABLE-BRAKING MEANS. MAXIMILIAN WEIL, New York, N. Y., assignor to Sphinx Gramophone Motors, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 3, 1919. Serial No. 287,238. Renewed Oct. 23, 1923. 11 Claims. (Cl. 188—85.)



1. In a phonograph, the combination with the turn table, of braking means for said turn table, comprising a member of varying contour controlled by said turn table, a yielding element normally maintained out of engagement with the rotating parts adapted when in braking position to engage said member of varying contour, and means for supporting said yielding element.

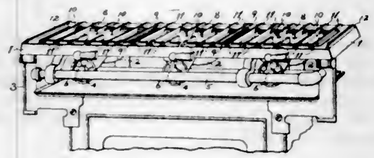
1,475,465. GAS BURNER. GEORGE D. WILKINSON, Oak Park, Ill., assignor to Cribben & Sexton Company Chicago, Ill., a Corporation of Illinois. Filed Apr 15, 1922. Serial No. 553,238. 4 Claims. (Cl. 158—99.)

1. A gas burner comprising a U-shaped section having its arms spaced apart and provided with gas jets, and an intermediate T-shaped section provided with gas jets in its stem and cross-arms and having the base of its stem supported on the bend of the first section and its



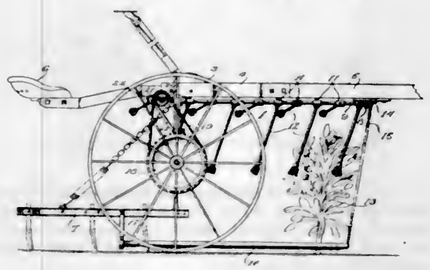
cross-arms supported on the forward ends of the arms of the first section, and an independent supply of gas for each section of the burner.

1,475,466. GAS COOKING TOP. GEORGE D. WILKINSON, Oak Park, Ill., assignor to Cribben & Sexton Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 15, 1922. Serial No. 553,239. 1 Claim. (Cl. 126—214.)



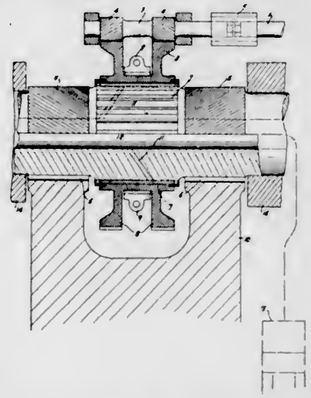
A gas cooking-top comprising an open-top frame suitably supported above the associated burners and having inwardly extending depressed flanges, opposite lugs on the flanges flush with the top of the frame, grids supported on the flanges adjacent the lugs and having their bars extending above the top of the frame, ribs on the top of the frame in extension of the ends of the bars of the grids, and transverse ribs on the ends of the frame flush with the intermediate ribs.

1,475,467. BOLL-WEEVIL DESTROYER. GEORGE W. WISELEY, Holdenville, Okla. Filed Sept. 23, 1922. Serial No. 590,090. 4 Claims. (Cl. 43—143.)



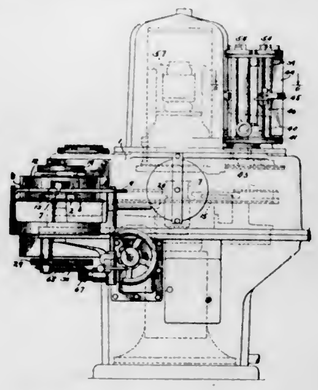
1. The combination with a wheeled frame, of a rock shaft supported centrally and longitudinally in said frame, clamp collars secured in spaced relation along said rock shaft, beaters rigidly mounted in said clamp collars, said beaters extending alternately in radial planes set at substantially 90° from the axis of the rock shaft, and all of said beaters being rearwardly and parallelly inclined in said planes.

1,475,468. GEAR TRANSMISSION DEVICE. ROBERT BAYLES ARMSTRONG, Newcastle-on-Tyne, England, assignor to Robert Bayles Armstrong and R. & W. Hawthorn Leslie & Company, Limited, both of Newcastle-on-Tyne, England. Filed Feb. 1, 1923. Serial No. 616,314. 3 Claims. (Cl. 74—7.)



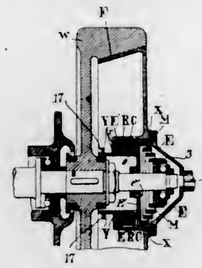
1. Gear transmission device comprising, in combination, a driving shaft, a primary pinion axially floatable relatively to and rotatable with said shaft and having oppositely directed helical teeth, a secondary pinion provided with oppositely directed helical teeth, a secondary gear wheel meshing with said primary pinion and axially flotatable on and rotatable with said secondary pinion, a journal supporting said secondary gear wheel independently of said secondary pinion, and a main gear wheel meshing with said secondary pinion.

1,475,469. METHOD OF AND APPARATUS FOR SEALING CONTAINERS. NEILS PETERSEN BACH, Millburn, N. J., assignor to Perfect Vacuum Canning Company, New York, N. Y., a Corporation of Maine. Filed Oct. 29, 1921. Serial No. 511,414. 6 Claims. (Cl. 113—82.)



3. In an apparatus of the class described, the combination of a vacuumizing chamber, means for conveying containers into said chamber while maintaining a vacuum in the chamber, a magazine for holding a supply of container tops, means for conveying the tops to the containers in said chamber and applying them, and means for replenishing the supply of container tops while maintaining the vacuum in said chamber.

1,475,470. CLUTCH. CHRIS TER COCK, Baarn, Netherlands. Filed Jan. 17, 1919. Serial No. 271,758. 3 Claims. (Cl. 192—89.)



1. In a clutch of the character described the combination with a driving shaft having an extension, a driven shaft and a driving clutch member mounted on the driving shaft of a sectional driven element composed of two sections rotatable with the driven shaft and slidable relative thereto, a driven clutch element slidable on one of the sections of the driven element, spring cushioning means between one section of the driven element and the driven clutch element and main spring means operably mounted on the extension of the driving shaft and acting on the driven element in opposition to the spring cushioning means.

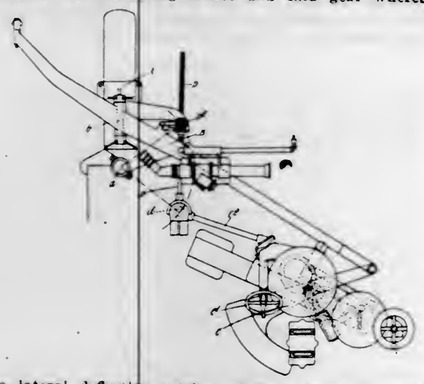
1,475,471. PROCESS OF MANUFACTURING YEAST. ROBERT L. CORBY, Chevy Chase, Md., and RUTH GLASGOW, Pittsburgh, Pa., assignors, by mesne assignments, to The Fleischmann Company, a Corporation of Ohio. Filed Mar. 13, 1919. Serial No. 282,506. 8 Claims. (Cl. 195—20.)

1. The process of manufacturing yeast which comprises preparing a yeast nutrient solution containing essentially saccharifierous material and other yeast nutrients, including cereal material and a compound containing inorganic nitrogen, rendering the solution initially slightly acid to a degree favorable to yeast growth, propagating yeast therein, such compound containing inorganic nitrogen being adapted to supply assimilable nitrogen to the yeast and, during such assimilation, to set free componenta which tend increasingly to acidify the nutrient solution, and during the propagation maintaining the acidity of the solution approximately constant.

1,475,472. ORDNANCE SIGHTING APPARATUS. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England, a British Company. Filed May 15, 1922. Serial No. 561,241. 4 Claims. (Cl. 33—48.)

1. In ordnance sighting apparatus, the combination with the sight and its carrier, of a sight bracket, means for mounting the sight carrier on the sight bracket so that said carrier can move laterally at all angles of elevation in a plane containing the sight line, lateral deflection gear operating between said carrier and said bracket, a member or part fixed to the gun carriage, a lateral deflection operating device mounted on said fixed part, a lateral deflection indicating device associated

with said operating device and mechanism interposed between said operating device and said gear whereby



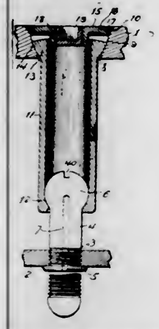
the lateral deflection setting of the sight will remain undisturbed during the elevational movements of the sight bracket.

1,475,473. LENS AND BLANK THEREFOR AND METHOD OF MARKING IT FOR THE PURPOSE OF IDENTIFICATION. THEODORE B. DRESCHER, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 25, 1921. Serial No. 517,476. 3 Claims. (Cl. 49—77.)

1. A transparent refracting lens of glass having a portion of the material of which it is composed slightly modified or altered in the form of a designating mark less in area than the surfaces thereof, said marking or tinting extending through the lens from one surface to the other.

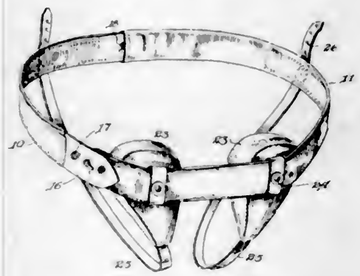
3. The hereindescribed method of marking glass lenses and blanks therefor for identification purposes consisting in slightly altering or modifying the glass of which they are composed from one surface to the other in definite designs by subjecting limited portions thereof corresponding to the design desired, to the rays projected from an electrically excited vacuum tube the duration of the exposure being only sufficient to render the design perceptible but without appreciably affecting the light transmitting or refracting powers of the lens or blank.

1,475,474. STAY-BOLT STRUCTURE. ETHAN I. DODDS, Pittsburgh, Pa., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed Oct. 5, 1922. Serial No. 592,545. 4 Claims. (Cl. 85—1.5.)



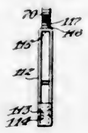
1. In a staybolt structure, the combination of a staybolt comprising a tubular member open at one end and having a rounded head at its open end and a member provided with a rounded head at one end mounted in one end of said tubular member and having a threaded portion at its other end, and removable closure means for the outer end of the tubular bolt member.

1,475,475. TRUSS. JOSEPH EIHORN, Louisville, Ky. Filed Mar. 9, 1922. Serial No. 542,397. 2 Claims. (Cl. 128—101.)



1. In a truss, a two part bolt, each part having a relatively stiff interior member and a soft and flexible cover entirely covering the stiff interior member, one of said parts having the cover portion extending beyond the interior member and provided with free edges, an extension from the interior member of the last mentioned part positioned within the cover extension, means on the extension and an extremity of the other part of said belt for adjustably connecting the two parts, and means to hold the cover extension closed about the connection between the two parts.

1,475,476. HARNESS MOTION FOR LOOMS. EDWARD M. EK, Providence, R. I. Filed Jan. 15, 1921. Serial No. 437,410. 5 Claims. (Cl. 139—71.)

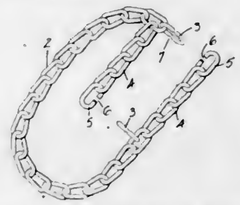


1. In a harness-motion for looms, the combination with a plurality of harness-fames, of a series of shifter-bars each connected with a harness-frame, a pair of oppositely-moving levers arranged adjacent the bars, a pawl pivoted on each shifter-bar to adapt it to rock into opposite positions to engage one or the other of the actuating-levers, a series of forked selector-levers adapted to be shifted in position to engage at different points on the pawls, pattern-mechanism for controlling the position of the selector-levers, and means to move the levers bodily into position to actuate the pawls with opposite effect thereon in accordance with the selective position to which said levers have been shifted.

1,475,477. PROCESS OF MAKING FATTY ACID COMPOUNDS. CARLETON ELLIS, Montclair, N. J. Filed Aug. 9, 1918. Serial No. 249,112. 2 Claims. (Cl. 260—112.)

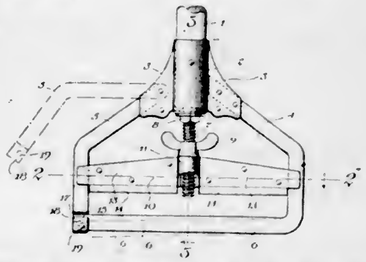
1. The process of making fatty acid compounds which comprises heating aniline with oleic acid, to a temperature of approximately 170 to 190° C., whereby a compound of oleic acid is formed.

1,475,478. ANTISKID CHAIN. IRA P. ENGLE, Ydalpom, Calif. Filed Jan. 9, 1922. Serial No. 527,862. 3 Claims. (Cl. 152—14.)



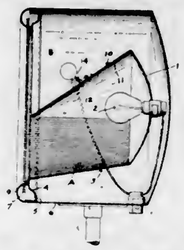
1. An anti-skid device comprising a length of chain, a C-shaped link on each end of said chain and a grooved link adjacent each end engageable with the C-shaped link on the opposite end.

1,475,479. MOP HOLDER. WILLIAM FETH, Lima, Ohio. Filed Sept. 25, 1922. Serial No. 590,409. 7 Claims. (Cl. 15—153.)



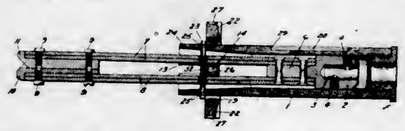
1. A mop holder, including a fixed arm and a movable arm, the fixed arm carrying an integral resilient crossbar, and the movable arm and crossbar provided with co-operating means whereby they are interlocked when brought into co-operating position.

1,475,480. AUTOMOBILE HEADLIGHT. OMER FIGHTMASTER, San Francisco, Calif. Filed Apr. 13, 1922. Serial No. 552,326. 1 Claim. (Cl. 240—41.)



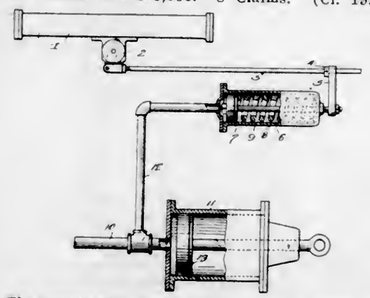
A headlight comprising a casing, a substantially vertically disposed parabolic reflector mounted within the casing, an electric light disposed at the focal plane of the reflector, an arcuate hood extending from the upper half of the reflector forwardly and downwardly with its lower edge disposed below the focal plane of the reflector, the lower edge of said hood being substantially horizontal and extending entirely across said casing, said hood having a reflecting surface on its inner side and an arcuate shield extending forwardly from the lower half of the reflector and joined at its upper edges to said hood, which shield is provided on its inner side with a non-reflecting surface and is flared from its inner to its outer end.

1,475,481. ELECTRODE HOLDER. WALTER HERBERT FLOOD, Tooting, London, and DONALD TRENTHAM SMOUT, West Dulwich, London, England, assignors to Electric Arc Cutting and Welding Company, Newark, N. J. Filed May 14, 1921. Serial No. 469,560. 11 Claims. (Cl. 219—14.)



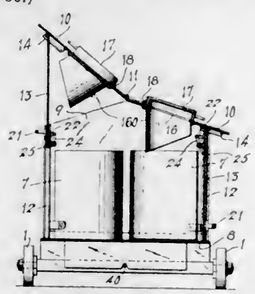
1. An electrode holder comprising a nonconductive tube, a plug within said tube, a set of leaf springs secured to said plug and extending beyond the tube, a pair of metallic jaws secured to the otherwise free ends of said springs, said springs normally urging said jaws together, means on said jaws for gripping an electrode, and means carried by the tube for effecting the separation of the jaws.

1,475,482. SAFETY MECHANISM FOR POWER-OPERATED DOORS. PARIS R. FORMAN, Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed Aug. 27, 1921. Serial No. 496,060. 8 Claims. (Cl. 192—1.)



1. The combination with a door operating motor, a controller therefor, and means for operating said controller, of a car brake mechanism, and means operating coincidently with the actuation of the car brake mechanism for controlling said controller actuating means.

1,475,483. TRUCK. JOHN GALUSKA, Newark, N. J. Filed June 20, 1922. Serial No. 569,745. 4 Claims. (Cl. 280—50.)



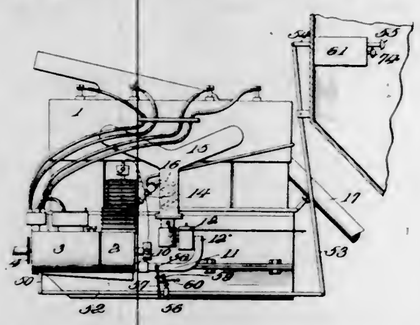
1. A truck comprising a body adapted to removably receive a plurality of receptacles, a top hingedly connected to said body and formed with a plurality of openings one registering with each of said receptacles, and a vertically slidable side wall hingedly connected at its upper edge to said top which when raised provides an opening for removal of all of said receptacles.

1,475,484. EMBLEM. THEODORE C. GLASER, Newark, N. J. Filed May 3, 1922. Serial No. 558,195. 2 Claims. (Cl. 40—1.5.)



2. An article of the kind described comprising two emblems, one hinged to the other so that one can cover the other, and having co-acting means to limit the swinging movement when they are at right angles, the covering member having its edge so formed that it is part of the design of the other when the emblems are swung apart.

1,475,485. STARTING MECHANISM FOR INTERNAL-COMBUSTION ENGINES. HAYNER H. GORDON, Washington, D. C., assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Aug. 11, 1919. Serial No. 316,862. 7 Claims. (Cl. 290—4.)



1. In a device for starting an internal combustion engine, the combination of an auxiliary engine, a source of electric current, an electric motor-generator in circuit therewith having two relatively rotatable members, driving connection between one of said members and the auxiliary engine, driving connection between the other of said members and the internal combustion engine, and means to cause the motor members to rotate in unison.

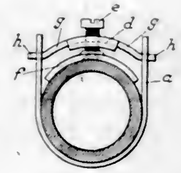
7. In an electrical system for a power unit, a main internal combustion engine, an auxiliary internal combustion engine, a motor-generator operably connected therebetween, ignition circuits for said engines, regulating means in circuit with said motor-generator, a parallel resistance circuit in circuit with said motor-generator and a common source of current selectably connected with said circuits.

1,475,486. EVENER OR DRAFT EQUALIZER. WILLIAM GREENHECK and ANTON GREENHECK, Lone Rock, Wis. Filed Oct. 11, 1919. Serial No. 330,141. 2 Claims. (Cl. 278—8.)



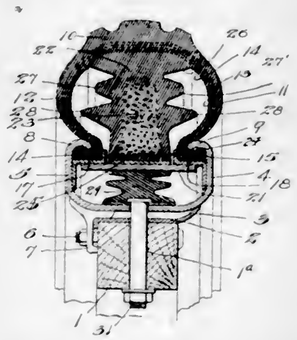
1. The combination of the base structure, the relatively short main lever extending laterally from the base on a transverse line, the relatively long main lever extending oppositely laterally from the base on another transverse line, the differential lever aligned transversely with one of the main levers, a supplemental lever aligned with the other main lever, the link extending from the shorter main lever to the supplemental lever, the link extending from the long main lever to the differential lever, and the link connecting the differential and the supplemental levers, said parts all lying in transverse lines between those of the two main levers.

1,475,487. ADJUSTABLE CLAMP FOR RUBBER PIPES AND THE LIKE. ROBERT J. HAMMOND, London, England. Filed Sept. 12, 1922. Serial No. 587,718. 3 Claims. (Cl. 24—19.)



1. A clip for india-rubber and like pipes and covered cables and conductors comprising a U shaped band having a hole in each end with the outer ends of the said hole narrower than the inner end, a bridge piece, an enlarged head on each end of the said bridge piece adapted to pass through the wider portion of the corresponding hole in the band and when slipped up into the narrower portion to prevent disengagement of the bridge piece from the band, a screw threading through said bridge piece, and a saddle piece swivelly connected to said screw.

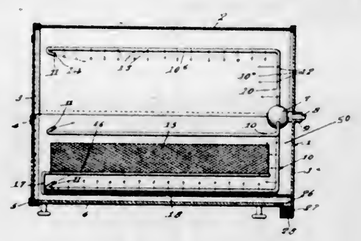
1,475,488. RESILIENT WHEEL. MORTON HARLOE, Winchester, Va., assignor to The Harloe Tire Company, Inc., Winchester, Va. Filed Oct. 29, 1920. Serial No. 420,342. 4 Claims. (Cl. 152—8.)



1. The combination with a sectional rim of a flexible tire casing having side walls and beads, retaining rings within said rim supporting said side walls, a master spring within these rings, and an annular resilient cushion in the casing supported on said spring.

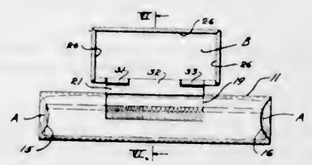
1,475,489. DISHWASHING MACHINE. TRUSTIN C. HICKS, Pittsburgh, Pa., assignor to Hicks-Obenour Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Oct. 17, 1919, Serial No. 331,381. Renewed May 11, 1921. Serial No. 468,584. 3 Claims. (Cl. 141—9.)

2. A dish washer comprising a casing, means for supporting dishes within said casing, a conduit mounted within said casing for rotation about said dish-supporting means upon a substantially horizontal axis, and means



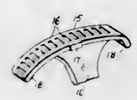
for supplying fluid under pressure to said conduit, said conduit having perforations therein for directing said fluid toward said dish-supporting means.

1,475,490. TOILET ARTICLE. JESSE MACINNES, Jersey City, N. J., assignor of one-half to Henry C. Karlson, Hasbrouck Heights, N. J. Filed July 20, 1922. Serial No. 576,293. 9 Claims. (Cl. 132—79.)



8. A toilet article of the character described including, in combination, a container formed from a blank folded over in a lateral direction to provide an open-ended sheath adapted to receive a pocket comb slidable endwise thereinto, part of said blank being struck out to constitute an outwardly extended ledge projecting from said sheath, incidentally producing an aperture affording access to substantially the central portion of the comb, a mirror associated with said container, and means pivotally connecting said mirror to the outer margin of said ledge.

1,475,491. AUTOMOBILE-BRAKE CONTROL. WALTER L. KAUFFMAN, 2d, Youngstown, Ohio. Filed Dec. 26, 1922. Serial No. 608,846. 7 Claims. (Cl. 74—39.)

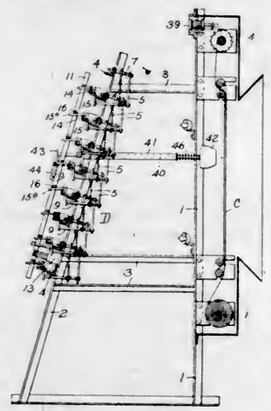


1. In an attachment for Ford automobiles, a curved plate member adapted to be mounted on the clutch actuating cam member, said plate being provided with a series of transverse slots; and a sharpened screw adapted to be mounted in the cam engaging arm to engage with such slots in said plate, said screw having its end formed into a narrow edge extending in the same direction as such transverse slots.

1,475,492. HYDRATED CALCIUM NITRATE AND METHOD OF MAKING SAME. HERBERT J. KRASE, Clarendon, Va., and JEW YAM YEE, Washington, D. C. Filed June 28, 1921. Serial No. 481,056. 4 Claims. (Cl. 23—13.)

1. The method of making calcium nitrate, including preparing a concentrated solution of calcium nitrate containing approximately 30.5% water, placing the solution in a grainer and stirring while cooling slowly through the freezing point of the solution and continuing the stirring until the lumpy aggregates formed are reduced to rounded grains.

1,475,493. TARGET APPARATUS. GEORGE A. KERESTES, Pittsburgh, Pa., assignor to Novelty Amusement Co., Pittsburgh, Pa., a Corporation of Delaware. Filed Dec. 18, 1818, Serial No. 267,341. Renewed Oct. 10, 1923. 12 Claims. (Cl. 124—15.5.)



1. The combination with a picture projecting machine, of a target including a plurality of overlapping loosely suspended plates adapted to be moved by the impact of a bullet, and means including a tiltable bar, a vertically movable switch actuating element, and connections between said element and the tiltable bar actuated by the movement of a plate for controlling the operations of the picture machine.

1,475,494. PROCESS FOR THE MANUFACTURE OF YEAST. HENRY A. KOHMAN, ROY IRVIN, and ROBERT J. CROSS, Pittsburgh, Pa., assignors, by mesne assignments, to The Fleischmann Company, a Corporation of Ohio. Filed Jan. 20, 1919. Serial No. 272,182. 21 Claims. (Cl. 195—20.)

1. The process of manufacturing yeast which comprises preparing a yeast nutrient solution containing essentially sugar material and other yeast nutrients, including cereal material and a compound containing inorganic nitrogen, propagating yeast therein, such compound containing inorganic nitrogen being adapted to supply assimilable nitrogen to the yeast and, during such assimilation, to set free components which tend to build up a progressively increasing acidity, and during the propagation neutralizing progressively the deleterious excess of such acidity.

1,475,495. GRINDING MACHINE. JOHN KOZIEL, Rothschild, Wis. Filed May 15, 1922. Serial No. 560,914. 1 Claim. (Cl. 51—166.)

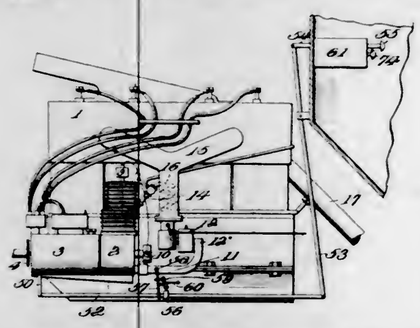
A grinder comprising a rectangular frame, a grindstone rotatable therein, an actuating gear train for said grindstone, pedal means for actuating said train, a pan

1,475,484. EMBLEM. THEODORE C. GLASER, Newark, N. J. Filed May 3, 1922. Serial No. 558,195. 2 Claims. (Cl. 40—1.5.)



2. An article of the kind described comprising two emblems, one hinged to the other so that one can cover the other, and having co-acting means to limit the swinging movement when they are at right angles, the covering member having its edge so formed that it is part of the design of the other when the emblems are swung apart.

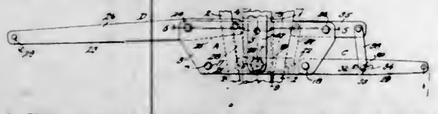
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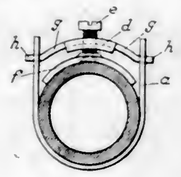
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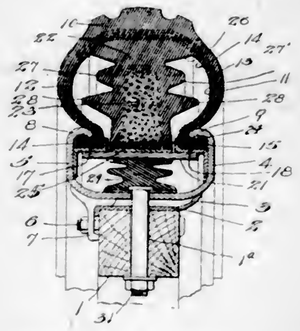
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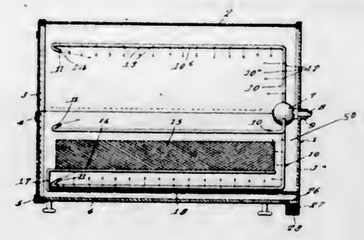
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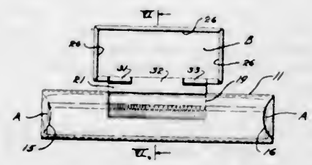
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2. A dish washer comprising a casing, means for supporting dishes within said casing, a conduit mounted within said casing for rotation about said dish-supporting means upon a substantially horizontal axis, and means



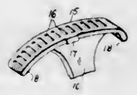
for supplying fluid under pressure to said conduit, said conduit having perforations therein for directing said fluid toward said dish-supporting means.

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8. A toilet article of the character described including, in combination, a container formed from a blank folded over in a lateral direction to provide an open-ended sheath adapted to receive a pocket comb slidable endwise thereinto, part of said blank being struck out to constitute an outwardly extended ledge projecting from said sheath, incidentally producing an aperture affording access to substantially the central portion of the comb, a mirror associated with said container, and means pivotally connecting said mirror to the outer margin of said ledge.

1,475,491. AUTOMOBILE-BRAKE CONTROL. WALTER L. KAUFFMAN, 2d, Youngstown, Ohio. Filed Dec. 26, 1922. Serial No. 608,846. 7 Claims. (Cl. 74—39.)

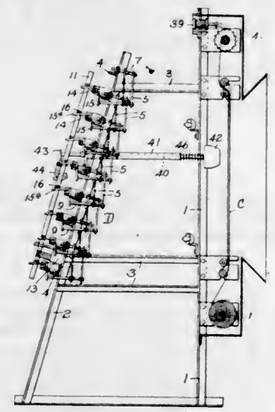


1. In an attachment for Ford automobiles, a curved plate member adapted to be mounted on the clutch actuating cam member, said plate being provided with a series of transverse slots; and a sharpened screw adapted to be mounted in the cam engaging arm to engage with such slots in said plate, said screw having its end formed into a narrow edge extending in the same direction as such transverse slots.

1,475,492. HYDRATED CALCIUM NITRATE AND METHOD OF MAKING SAME. HERBERT J. KRASE, Clarendon, Va., and JEW YAM YEE, Washington, D. C. Filed June 28, 1921. Serial No. 481,056. 4 Claims. (Cl. 23—13.)

1. The method of making calcium nitrate, including preparing a concentrated solution of calcium nitrate containing approximately 30.5% water, placing the solution in a grainer and stirring while cooling slowly through the freezing point of the solution and continuing the stirring until the lumpy aggregates formed are reduced to rounded grains.

1,475,493. TARGET APPARATUS. GEORGE A. KERESTES, Pittsburgh, Pa., assignor to Novelty Amusement Co., Pittsburgh, Pa., a Corporation of Delaware. Filed Dec. 18, 1818, Serial No. 267,341. Renewed Oct. 10, 1923. 12 Claims. (Cl. 124—15.5.)



1. The combination with a picture projecting machine, of a target including a plurality of overlapping loosely suspended plates adapted to be moved by the impact of a bullet, and means including a tiltable bar, a vertically movable switch actuating element, and connections between said element and the tiltable bar actuated by the movement of a plate for controlling the operations of the picture machine.

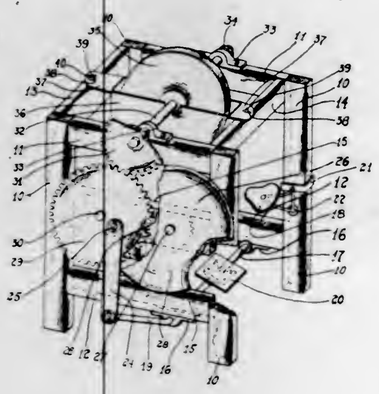
1,475,494. PROCESS FOR THE MANUFACTURE OF YEAST. HENRY A. KOHMAN, ROY IRVIN, and ROBERT J. CROSS, Pittsburgh, Pa., assignors, by mesne assignments, to The Fleischmann Company, a Corporation of Ohio. Filed Jan. 20, 1919. Serial No. 272,182. 21 Claims. (Cl. 195—20.)

1. The process of manufacturing yeast which comprises preparing a yeast nutrient solution containing essentially sugar material and other yeast nutrients, including cereal material and a compound containing inorganic nitrogen, propagating yeast therein, such compound containing inorganic nitrogen being adapted to supply assimilable nitrogen to the yeast and, during such assimilation, to set free components which tend to build up a progressively increasing acidity, and during the propagation neutralizing progressively the deleterious excess of such acidity.

1,475,495. GRINDING MACHINE. JOHN KOZIEL, Rothschild, Wis. Filed May 15, 1922. Serial No. 560,914. 1 Claim. (Cl. 51—166.)

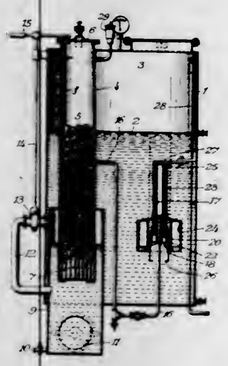
A grinder comprising a rectangular frame, a grindstone rotatable therein, an actuating gear train for said grindstone, pedal means for actuating said train, a pan

in which said grindstone operates, said pan having slotted supports resting on the front and rear elements of said frame substantially level with the axis of the



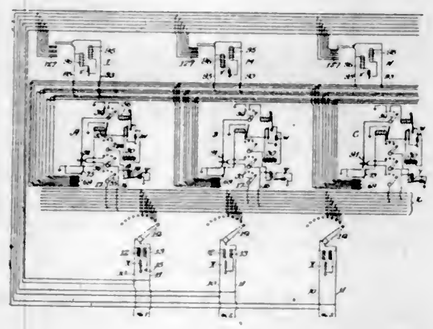
stone, to act as a support for work to be ground, and being adjustable to or from the stone, and means for clamping said pan in adjustment.

1,475,496. GAS GENERATOR. CARL LÄUCHLI, Dubendorf, near Zurich, Switzerland, assignor to the Firm Continental-Licht- und Apparatebau-Gesellschaft, Frankfurt-on-the-Main, Germany. Filed Aug. 15, 1921. Serial No. 492,405. 5 Claims. (Cl. 48—19.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



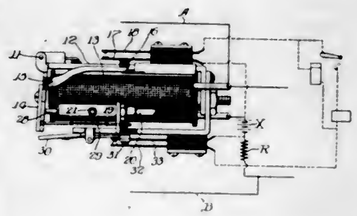
1. An acetylene high-pressure generator, comprising a closed container having a water space and a space above said water space serving as a reservoir for the gas generated, a gas producer adapted to contain carbide in its upper part and to contain water in its lower part, a gas bell arranged in the water space in said container and adapted to alter its elevation in dependency upon the variations of the pressure of the gas in said reservoir, and a conduit for the gas from the producer to said container ending below said bell whereby the height of the water level in said producer depends on the hydrostatic head at the lower edge of said bell.

1,475,497. AUTOMATIC TELEPHONE EXCHANGE. FRANK A. LUNDQUIST, Chicago, Ill., assignor, by mesne assignments, to Henry S. Conrad, trustee. Filed Aug. 16, 1917, Serial No. 186,448. Renewed Apr. 19, 1923. 20 Claims. (Cl. 179—18.)



10. The combination with trunk terminals, a carriage having two wipers for engaging said terminals, and means for giving said carriage a rapid movement, of means controlled thru said wipers in succession for stopping said carriage at a position corresponding to an idle trunk.

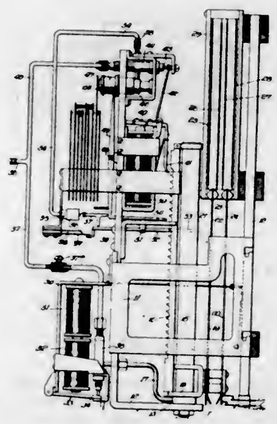
1,475,498. RELAY. FRANK A. LUNDQUIST, Chicago, Ill., assignor, by mesne assignments, to Henry S. Conrad, trustee. Filed July 13, 1918, Serial No. 244,731. Renewed May 19, 1923. 10 Claims. (Cl. 200—97.)



7. In a relay, a magnetic coil having two armatures, a pair of contact springs operated by one of said armatures, an air valve operated by the other of said armatures, means for sending electrical impulses through said coil, said first armature vibrating in response to said impulses to operate said contact springs in accordance with said impulses, and means cooperating with said air valve to cause said other armature to be held in operated position while said impulses are sent through said coil.

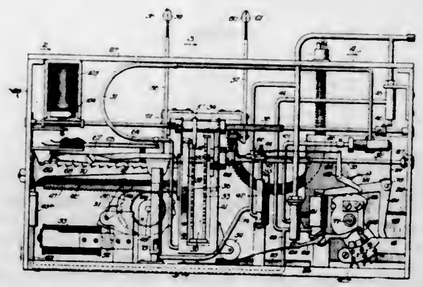
8. The combination of a coil having an armature and a spring for making the operation of the armature fast in one direction, with an air valve in which the air pressure cooperates with the spring to make the armature slow acting in the other direction.

1,475,499. LINE SWITCH AND CONNECTION. FRANK A. LUNDQUIST, Chicago, Ill., assignor, by mesne assignments, to Henry S. Conrad, trustee. Filed Aug 3, 1918, Serial No. 248,104. Renewed June 4, 1923 10 Claims. (Cl. 179—18.)



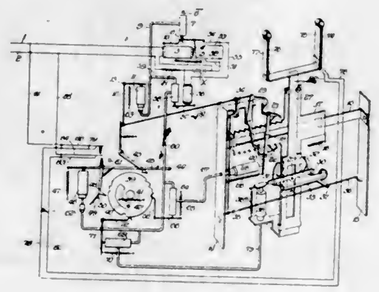
1. In a switching mechanism, a power device for moving the movable part thereof, an intercepting device for stopping such part, a locking device for holding it when stopped, a pneumatic device for operating the locking device, and a magnet for operating the intercepting device and controlling the pneumatic device.

1,475,500. SELECTOR SWITCH AND CONNECTION. FRANK A. LUNDQUIST, Chicago, Ill., assignor, by mesne assignments, to Henry S. Conrad, trustee. Filed Aug. 21, 1918, Serial No. 250,873. Renewed Apr. 19, 1923. 39 Claims. (Cl. 179—27.5.)



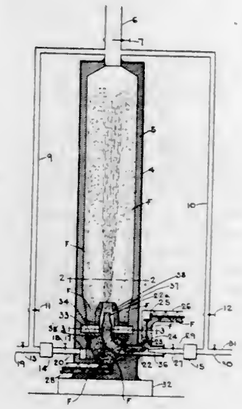
1. In a switching mechanism having power devices for moving parts of the mechanism in directions perpendicular to each other, pawls designed to hold such movement when made but normally in inoperative positions, pneumatic devices for controlling the operative condition of said pawls, a valve for admitting compressed air to said pneumatic devices, and a magnetic device for controlling said valve.

1,475,501. SWITCHING MECHANISM. FRANK A. LUNDQUIST, Chicago, Ill., assignor, by mesne assignments, to Henry S. Conrad, trustee. Filed Sept. 9, 1918, Serial No. 253,156. Renewed June 9, 1923. 27 Claims. (Cl. 179—27.5.)



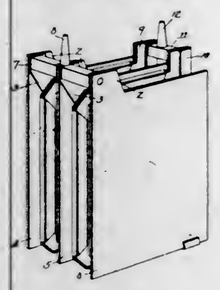
1. In a switching mechanism, wipers, a source of compressed air, a relay, and means by which electrical impulses flowing thru said relay will cause corresponding pulses from said source to operate said wipers successively in directions perpendicular to each other.

1,475,502. METHOD OF REVIVIFYING FINELY-DIVIDED FULLER'S EARTH, BONE CHAR, AND THE LIKE. FRED W. MANNING, Brooklyn, N. Y., assignor to Manning Refining Equipment Corporation, a Corporation of Delaware. Filed June 16, 1922. Serial No. 568,790. 12 Claims. (Cl. 252.)



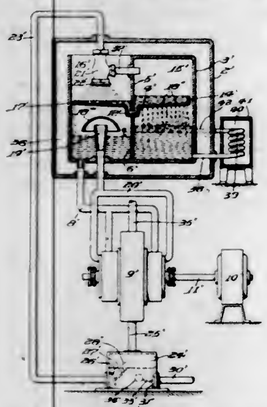
1. The method of treating purifying materials of the character described, which comprises transporting and dispersing particles of the material in a gaseous stream, containing products of combustion, and simultaneously raising the temperature of said particles.

1,475,503. STORAGE BATTERY. SVEND M. MEYER and WILLIAM JAMES, Brooklyn, N. Y., assignors to Magno Storage Battery Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 27, 1921. Serial No. 510,958. 2 Claims. (Cl. 204—29.)



2. A storage battery described in claim 1, characterized by the fact that the alloy consists of approximately 50% tin, 25% lead, 17% zinc and 8% antimony.

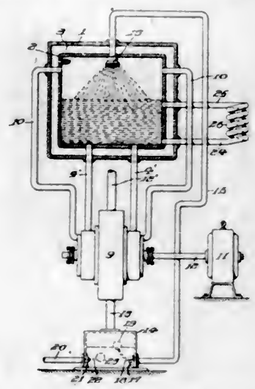
1,475,504. REFRIGERATING SYSTEM. MILLARD P. OSBOURN, Philadelphia, Pa. Filed Aug. 13, 1920. Serial No. 403,332. 3 Claims. (Cl. 62—152.)



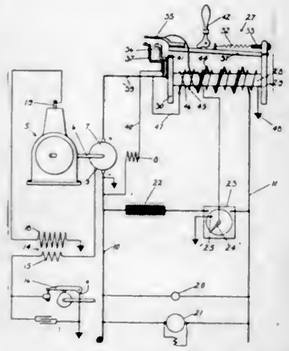
1. In a refrigerating system the combination of a closed chamber divided into two compartments, the refrigerant forming a liquid seal between said compartments, a pump, a conduit from one of said chambers to said pump through which the refrigerant is conveyed from said chamber to said pump, a conduit from the upper part of said chamber over said refrigerant to said pump for conveying the air and vapors to said pump to produce a vacuum in said chamber, an ejector in said chamber, a conduit from said pump to said ejector through which the refrigerant is returned to said chamber, and a conduit from the upper part of said second compartment to said ejector for maintaining a vacuum in said second compartment above said refrigerant.

1,475,505. REFRIGERATING SYSTEM. MILLARD P. OSBOURN, Philadelphia, Pa. Filed Aug. 13, 1920. Serial No. 403,333. 4 Claims. (Cl. 62—152.)

1. In a refrigerating system, the combination of a closed chamber arranged to contain a liquid refrigerant, a pump for intimately commingling a gas or vapor with a liquid for forcibly discharging the commingled gas and liquid therefrom, means for conducting said refrigerant from said chamber to said pump, means for conducting vapors or gases in said chamber above said refrigerant from said chamber to said pump to produce a partial vacuum in said chamber above said refrigerant, a receptacle into which the commingled vapors and refrigerant from said pump are discharged, a conduit from said receptacle to the space in said closed chamber above said refrigerant for conducting said refrigerant from said tank back to said closed chamber and means to sub-divide the refrigerant entering said closed chamber into small streams which fall through the space in said closed chamber above said refrigerant.



1,475,506. ELECTRIC POWER PLANT. HARRY R. PATTERSON, Toledo, Ohio. Filed Sept. 10, 1919, Serial No. 322,794. Renewed Mar. 27, 1923. 7 Claims. (Cl. 290—35.)

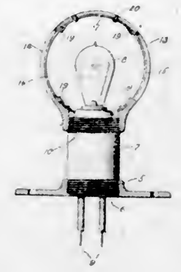


4. In a system of the class described the combination of a dynamo electric machine, a battery in circuit therewith to be charged thereby, an electromagnetic switch in said charging circuit, said switch having a current winding, a first potential winding and a second potential winding wound oppositely to said first potential winding and means responsive to the passage of a predetermined quantity of electricity through said battery for controlling the energization of said second potential winding.

1,475,507. PARKING LIGHT. WILLIAM H. PEARSON, Watertown, N. Y. Filed Oct. 26, 1922. Serial No. 597,129. 1 Claim. (Cl. 240—7.)

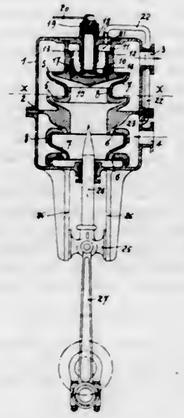
A parking light comprising a base plate, means for securing the same to the fender of a vehicle, a standard in screw threaded engagement with the base plate, a light

located on the upper end of the standard, a cylindrical body member surrounding the light and in screw threaded engagement with the upper end of the standard, elongated openings in the front and rear of the said body



member, removable transparent panels secured therein, screw threaded ends on the cylindrical body member, end caps in screw threaded engagement therewith and transparent plates between the ends of the body member and the said end caps.

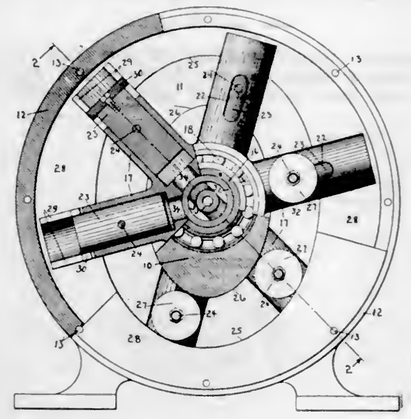
1,475,508. MEANS FOR REGULATING THE OUTPUT OF PUMPS OPERATED BY THE ENGINES OF AUTOMOBILES OR THE LIKE. ROBERT ESNAULT-PELTERIE, Paris, France. Filed Aug. 16, 1921. Serial No. 492,855. 7 Claims. (Cl. 103—11.)



1. In a pump provided with a piston and actuated by a motor, a second piston and automatic means controlled by the motor for limiting the stroke of the second piston and for varying the output of the pump.

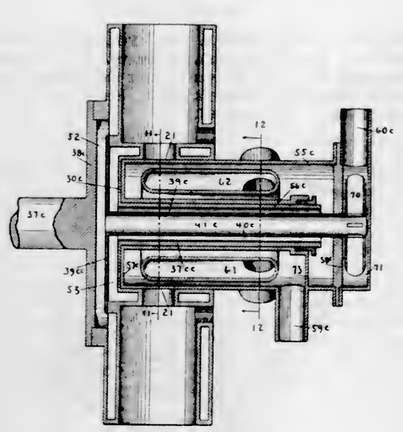
1,475,509. ROTARY ENGINE. CHARLES L. RAGOT, Kingsbridge, N. Y., and LOUIS F. RAGOT, Milford, Pa., assignors to Ragot Motor Corporation, a Corporation of New York. Filed Sept. 9, 1919. Serial No. 322,620. 5 Claims. (Cl. 121—61.)

1. In combination, a rotor having a plurality of cylinders bodily movable about the axis of rotation of the rotor, and an annular row of cylinder ports, one port for each cylinder, a stationary distributer including a pair of tubes, each provided with a plurality of ports arranged in the same circumferential path with the cylinder ports, each alternate one of said second mentioned ports communicating with one tube and the remaining ones communicating with the other tube stationary motive fluid



supply and exhaust conduits, and an axially movable sleeve having ports for connecting either of said passages with either of said tubes.

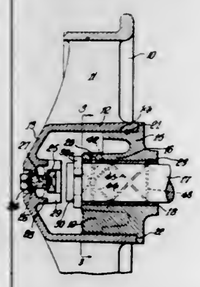
1,475,510. COOLING SYSTEM FOR ROTARY INTERNAL-COMBUSTION ENGINES. CHARLES L. RAGOT, Kingsbridge, N. Y., and LOUIS F. RAGOT, Milford, Pa., assignors to Ragot Motor Corporation, a Corporation of New York. Filed Sept. 26, 1919. Serial No. 326,533. 12 Claims. (Cl. 123—44.)



1. An internal combustion engine having a plurality of radially disposed cylinders rotatable about a common axis, a shaft supporting and carrying said cylinders, a water jacket encircling the group of cylinders, a cylindrical wall spaced from the inner heads of said cylinders and extending axially of the group of cylinders along substantially the entire cylinder diameter, and forming with the cylinder heads an annular chamber, separate radially extending axially spaced passages at one end of said cylindrical wall, one of said passages being connected directly to one end of said water jacket and the other connected to one end of said annular chamber, the oppo-

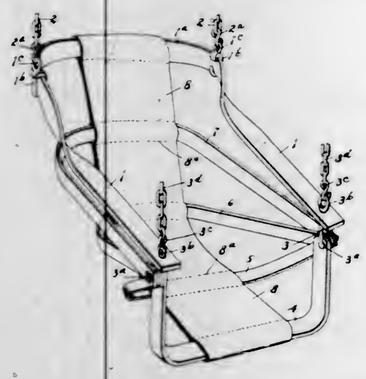
site end of said chamber being directly connected to the other end of said water jacket, means for supplying cooling liquid to one of the said passages, and means for withdrawing said liquid from the other.

1,475,511. WHEEL, PULLEY, OR THE LIKE. SILAS REES, Frampton Cotterell, England. Filed Aug. 2, 1923. Serial No. 655,350. 8 Claims. (Cl. 64—26.)



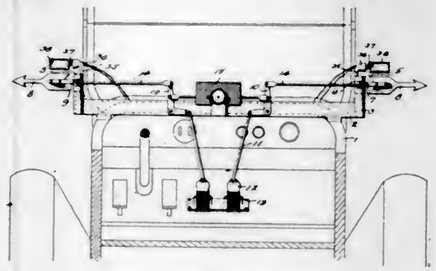
1. In a wheel, a hollow hub having one end solid and the other end open, a closure for the open end, a bearing for the wheel axle carried by the said closure, spaced ribs extending between said hub and said bearing, a bush in said bearing having an endless oil groove at each end connected together by a right hand and a left hand helical groove, which helical grooves extend to the end of the bush at the inner end, but terminate in the endless groove at the outer end, and which inner endless groove is connected by oil supply holes registering with oil inlets starting from the spaces between the said ribs.

1,475,512. COLLAPSIBLE OR FOLDABLE SEAT. NOBLE A. RICE, Lodi, Ohio; GUSTAVUS W. THOMPSON, Syracuse, N. Y., and GROVER C. RICE and JOHN E. RICE, Lodi, Ohio. Filed July 29, 1922. Serial No. 578,322. 10 Claims. (Cl. 155—67.)



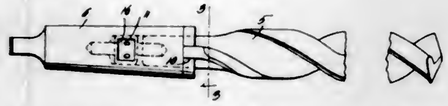
1. In a collapsible seat, a plurality of back and bottom forming bows of graduated length pivotally connected at a common point at their sides and provided with a bottom and back forming webbing at the intermediate portions thereof, the uppermost of said back forming bows being provided with pendant suspensory elements and carrying the other of said bows.

1,475,513. SIGNAL. WILLIAM A. ROGERS, Harris, Iowa. Filed Mar. 10, 1922. Serial No. 542,574. 4 Claims. (Cl. 116—40.)



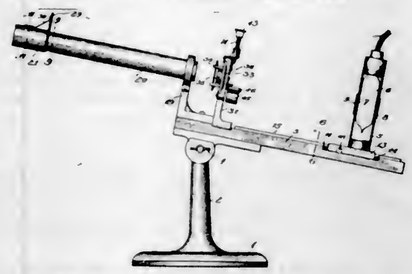
1. In combination, a signal arm, means for swinging the signal arm in a horizontal plane, and a mirror connected to and disposed in the same plane with the signal arm.

1,475,514. DRILL. WALTER F. ROSS, Detroit, Mich. Filed Mar. 14, 1921. Serial No. 452,061. 1 Claim. (Cl. 77—70.)



In combination, a tool having a reduced portion at one end provided with a threaded recess, ribs extending diametrically from the tool adjacent the reduced portion, a shank having a socket therein for receiving the reduced portion of the tool and provided with diametrically opposed slots at its end for receiving the ribs of the tool, a rod having oppositely threaded portions, a block disposed intermediate the ends of the rod and between the threaded portions thereof, said shank provided with a threaded recess in the bottom of its socket, said rod engaging the threaded recesses of the shank and the reduced portion of the tool, said shank provided with an opening leading into its socket and registering with the block therein, said block provided with an annular series of apertures so that a tool passing through the opening in the shank may be engaged with the apertures for turning the block in the manner and for the purpose specified.

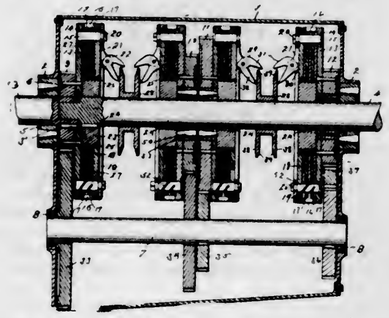
1,475,515. LENS-TESTING INSTRUMENT. WALTER C. SCHLITZER, Rochester, N. Y. Filed Feb. 6, 1922. Serial No. 534,610. 4 Claims. (Cl. 88—56.)



1. A lens testing instrument comprising means for supporting a test lens, a lamp housing located on one side of said lens supporting means and having an opening at one side thereof, a sleeve adjustable on the housing and positionable over said opening, the sleeve having a light emitting opening that is adjustable to proper relation-

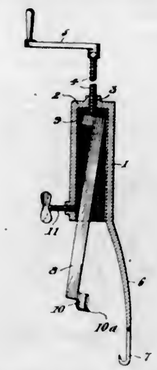
ship with the test lens and acts to project rays of light onto the test lens, a sight tube on the opposite side of the lens supporting means, an image screen within the tube, and a condensing lens between the image screen and lens supporting means.

1,475,516. TRANSMISSION MECHANISM. OTTO SHAFFER, Porterville, Calif. Filed Oct. 4, 1920. Serial No. 414,516. 1 Claim. (Cl. 192—69.)



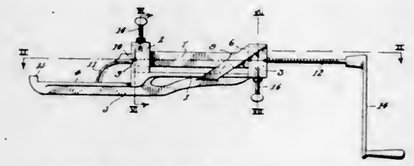
A clutch for connecting a driving and a driven member including a disk fixed to one of said members, a plate movable toward and from said disk, a hub on the second member, a series of disks keyed to said hub and slidable longitudinally thereof, the last mentioned disks being positioned between the plate and first disk, other disks carried by the first disk and arranged in alternation to the disks of the last mentioned series, a cam carried by the first disk bearing against the plate, whereby to force the plate toward the first disk and thereby clamp the several disks and plate in frictional engagement, a fork formed on said cam, and a shipper ring slidably and rotatably mounted on the second member and having a flange extending between the arms of the fork whereby movement of the shipper ring will actuate said cam.

1,475,517. TIRE-REMOVING TOOL. CLINT B. SNIDER, Independence, Kans. Filed Nov. 14, 1922. Serial No. 600,919. 3 Claims. (Cl. 157—6.)



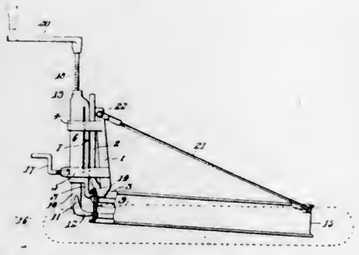
1. In a tire removing tool, a casing, a rim engaging arm depending from the casing, a rod loosely mounted in the casing, an arcuate foot carried by the outer end of the rod for engagement with a tire, means carried by the casing and engaging the rod for moving the same to operative position relative to the rim engaging arm, an angle extension carried by the inner end of the rod and an operating screw threaded through the upper end of the casing engaging the angle extension for forcing the rod and foot into engagement with a tire.

1,475,518. TIRE-REMOVING TOOL. CLINT B. SNIDER, Independence, Kans. Filed Jan. 18, 1923. Serial No. 613,465. 4 Claims. (Cl. 157—6.)



1. In a tire removing tool, a frame including a bar and a forwardly extending arm, a rim engaging hook carried by the outer end of the arm, a casing transversely slidable on the frame, a rod slidable in the casing, a tire engaging foot carried by the outer end of the rod, and operating means for the rod carried by the casing.

1,475,519. TIRE-REMOVING TOOL. CLINT B. SNIDER, Independence, Kans. Filed Feb. 15, 1923. Serial No. 619,240. 2 Claims. (Cl. 157—6.)

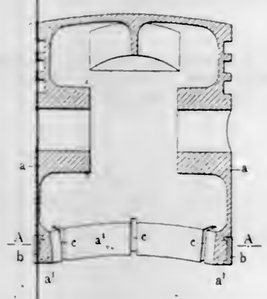


1. In a tire removing tool, a frame including a bar having a clamping jaw at the lower end thereof, a casing slidably associated with the bar and having a clamping jaw at the lower end cooperating with the aforesaid clamping jaw, means for moving the jaws into clamping engagement with the side flange of a wheel rim, a rod slidable in the casing and projecting from the lower end thereof, a tire engaging foot carried by the outer end of the rod, manually operable means for moving the rod outwardly of the casing, said foot having laterally directed end flanges forming an intervening space with the clamping jaw on the casing normally positioned in the space during mounting of the tool on a rim and tire, and a brace rod having one end pivoted to the tool with the free end adapted for engaging the wheel rim.

1,475,520. PISTON FOR INTERNAL-COMBUSTION ENGINES. MAURICE ETIENNE DÉSIRÉ SOREL, Paris, France. Filed Dec. 27, 1921. Serial No. 433,339. 3 Claims. (Cl. 74—108.)

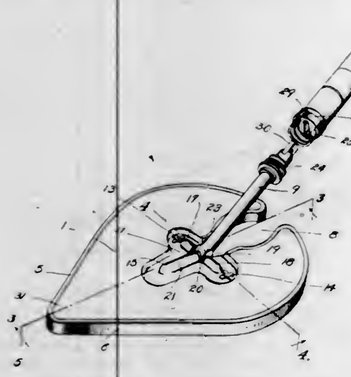
1. A piston for internal combustion engines, made of a metal the coefficient of expansion of which is substantially greater than that of the metal of the cylinder, having virtually integral therewith non-sectioned continuous rings made of a metal having a coefficient of expansion substantially equal to that of the metal of the cylinder of the engine, having when cold an outer diameter slightly greater than that of the piston body, the outer diameters of these rings and of the piston body being such that,

when cold and at low temperatures, the rings alone rub against the inner wall of the cylinder whilst at high



temperatures, the piston body, owing to its coefficient of expansion being greater than that of the metal of the rings, also rubs against the wall of the cylinder.

1,475,521. POLISHING MOP. HERBERT M. STURGIS, Kansas City, Mo., assignor of forty-nine one-hundredths to Frank Hamilton, Kansas City, Mo. Filed May 26, 1922. Serial No. 563,775. 8 Claims. (Cl. 15—229.)

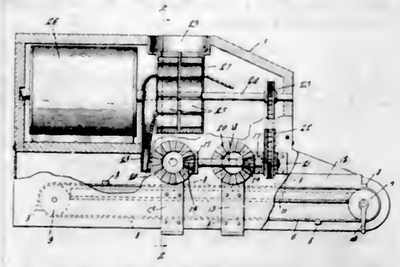


1. A mop head comprising two flanged plates telescoped together and having the edge of the flange of one plate bent over the end of the complementary plate to provide a hollow flat head, the two plates having portions struck out therefrom to provide bearings, a rod support mounted in the bearings, a rod on the support having an enlarged head through which the support projects, and a spring-pressed bolt in recesses in the plates for frictional contact with the enlarged portion of the rod to maintain angular adjustment between the rod and the head consisting of the two plates.

1,475,522. ART OF PREPARING ALKYL DERIVATIVES OF ORGANIC COMPOUNDS. EUGENE THEIMER, Newark, N. J., assignor, by mesne assignments, to R. F. Steward, Washington, D. C. Filed June 4, 1919. Serial No. 301,686. Renewed Apr. 18, 1923. Serial No. 551,212. 11 Claims. (Cl. 260—124.)

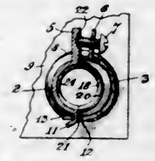
4. The process of preparing methyl phenacetin which comprises methylating phenacetin mixed with methyl phenacetin and xylol, by the successive action of metallic sodium and methyl bromid.

1,475,523. BLACKBOARD-ERASER CLEANER. CORLISS VERNON THOMPSON, Carlton, Minn. Filed Jan. 9, 1922. Serial No. 528,111. 3 Claims. (Cl. 15—6.)



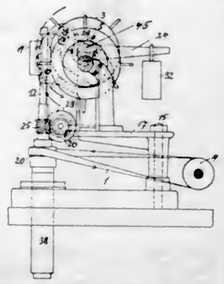
1. A blackboard eraser cleaner comprising a body portion, a support within the body portion, an endless conveyor comprising a pair of belts operating within the body portion, said belts being disposed in spaced relation with each other to receive erasers therebetween, means for operating the endless conveyor, and rotary means within the path of travel of the erasers over the support for removing foreign matter from the erasers.

1,475,524. CONNECTING DEVICE FOR ELECTRICAL CONDUITS, CABLES, AND THE LIKE. GEORGE C. THOMAS, Jr., Elizabeth, N. J., assignor to The Thomas & Betts Co., Elizabeth, N. J., a Corporation of New Jersey. Filed May 10, 1922. Serial No. 559,744. 9 Claims. (Cl. 247—25.)



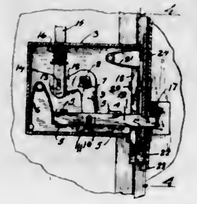
1. In connecting devices, the combination with an expansible shell comprising two separable parts adapted to bind against the periphery of a conduit opening in which the device is inserted, and means for expanding said shell, of a supplementary member cooperating with a portion of said shell and forming with said portion, and irrespective of the separation of said parts, a covering completely encircling an electrical conduit or cable passed through said shell.

1,475,525. BOBBIN-WINDING MACHINE. CARL TOBER, Berlin-Karlshorst, Germany. Filed July 1, 1922. Serial No. 572,115. 2 Claims. (Cl. 242—43.)



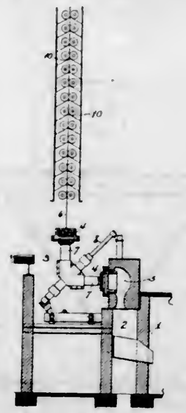
1. In a bobbin-winding machine, the combination of a rotary spindle adapted to carry the bobbin, means for positively driving the said spindle, a movable thread-guide, means for automatically adjusting the said guide relative to the said bobbin and oppositely rotating traversing members alternately engaging the thread.

1,475,526. AUTOMOBILE-DOOR LOCK. LOUIS R. E. WASKINS, Edgewater, Colo. Filed Mar. 9, 1922. Serial No. 542,274. 2 Claims. (Cl. 292—333.)



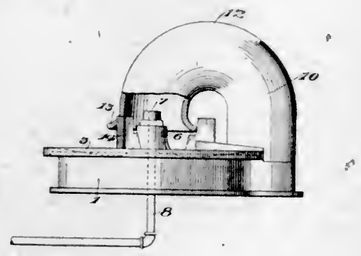
1. A lock comprising a narrow rectangular housing, a plurality of guides secured to one side thereof, a bolt slidable between said guides, a spring co-operating with said bolt and tending to project the same from the housing into locking position, a bell crank pivoted to the housing and having one end thereof pivotally connected to the bolt, a handle connected to the other end of said bell crank lever by a lost motion connection, said handle projecting out through the housing, a notch in one side of said bolt, a locking member slidable transversely of said bolt and adapted to engage said notch and hold the bolt in retracted position, a spring co-operating with said locking member tending to force it into locking engagement with the bolt, said locking member projecting through the side of the casing, and a rotatable handle attached to the bell crank whereby the latter may be operated independently of the handle.

1,475,527. ART OF DRAWING GLASS. HUGO J. WALTER, Bradford, Pa., assignor to Interstate Window Glass Company, Bradford, Pa. Filed Dec. 7, 1922. Serial No. 605,487. 5 Claims. (Cl. 49—83.1.)



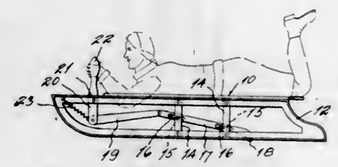
4. The improvement in the art of drawing glass sheets which consists in presenting charges of molten glass successively to a drawing apparatus, drawing a sheet from each charge of glass, and causing each sheet drawn to serve as a bait for the succeeding sheet whereby the successive sheets will be welded together.

1,475,528. OIL BURNER. MYRON W. WOOD, Omaha, Nebr., assignor, by mesne assignments, to Liberty Oil Burner Company, Omaha, Nebr. Filed Apr. 18, 1922. Serial No. 554,431. Renewed Oct. 13, 1923. 4 Claims. (Cl. 158—91.)



1. An oil burner comprising a cylindrical support adapted to be positioned over an open grate, a burner plate supported by a circular base, an oil feed pipe projecting through the supporting base centrally of same and provided with an opening centrally of the burner plate on a plane slightly above same, and an air flue supported by the circular base and connected with the interior of same to provide a downwardly flow of air over the burner plate.

1,475,529. SLED. LEON APTOWICZ, Yonkers, N. Y. Filed July 20, 1921, Serial No. 486,221. Renewed Aug. 1, 1923. 1 Claim. (Cl. 188—8.)

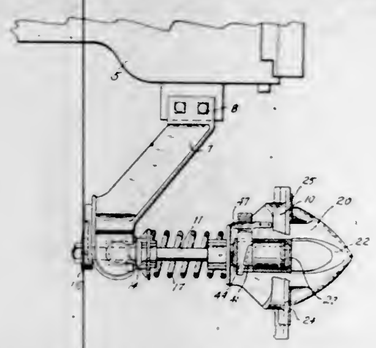


A sled comprising a pair of runners, cross members holding the runners in spaced parallel relation, pairs of upright posts between the upper and lower elements of said runners, parallel brake members adjacent the runners, pins in said posts slidably supporting the brake members, contact members at the lower ends of the brake members adapted to be moved into contact with the surface traversed, links extending from said members to the front of said sled; spring means for holding the contact members normally out of contact with the surface traversed, and vertical levers engaging said links, for each brake member whereby said brake members may be selectively operated and the direction of travel of the sled controlled.

1,475,530. REMOVABLE NIPPLE AND GASKET. MARTIN A. BARBER, Cleveland, Ohio, assignor, by mesne assignments, to The American Automatic Connector Company, Wyoming, Del., a Corporation of Delaware. Filed Sept. 30, 1920. Serial No. 413,879. 6 Claims. (Cl. 285—58.)

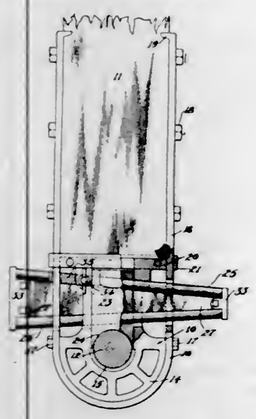
1. In an automatic connector, the combination of a head having an orifice, a shank behind the orifice and aligned with it for supporting said head, there being a cavity in the rear portion of the head between its face and the shank, said cavity opening toward the side, a

removable nipple seated in said cavity and extending out through said side opening, a gasket located partially



within the cavity in front of the nipple, and means for holding the nipple in various adjusted positions within the cavity to maintain the gasket properly compressed.

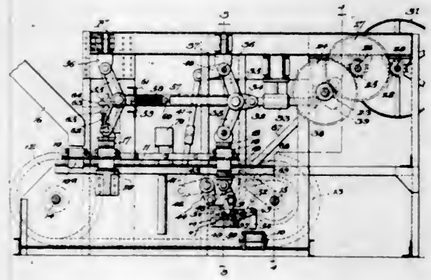
1,475,531. PITMAN END. REUBEN C. BAKER, Coalinga, Calif., assignor to Baker Casing Shoe Company, Los Angeles, Calif. Filed July 20, 1922. Serial No. 576,333. 4 Claims. (Cl. 64—55.)



1. A bearing structure comprising a bearing formed with a seat, a guide extending from each side of the seat, a follower block slidably mounted between said guides for movement toward and away from the seat and adapted to serve as a bearing cap for the seat, registering tapered openings formed through said guides and said follower block, a tapered wedge key insertible through said openings, and co-operating means formed on the wedge key and in said openings adapted to cause the follower block to positively move toward or away from the bearing seat when said key is moved longitudinally.

1,475,532. CONCRETE-BLOCK-MOLDING MACHINE. WILLIAM E. BARNHART and MICHAEL EARL LOHR, Johnstown, Pa. Filed July 26, 1922. Serial No. 577,523. 9 Claims. (Cl. 25—100.)

7. In a machine of the class described, the combination of a series of intermittently movable molds having movable bottoms, a downwardly movable plunger above the molds, an upwardly movable plunger below the molds adapted to engage and elevate the mold bottoms, toggles connected to the upper plunger for depressing said plunger, toggles connected to the lower plunger for elevating



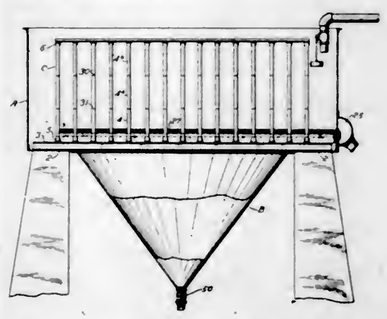
said plunger, connections between said toggles, a drive shaft, and connections between said shaft and one of said toggles.

1,475,533. TRANSFORMER-TANK COVER. ROBERT V. BINGAY, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company, a Corporation of Pennsylvania. Filed Aug. 10, 1920. Serial No. 402,568. 4 Claims. (Cl. 220—24.)



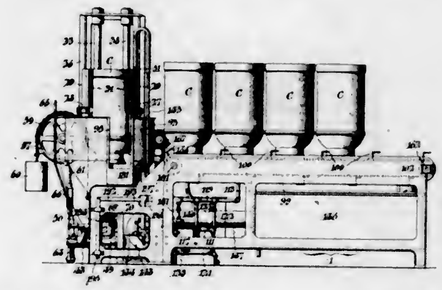
1. A transformer tank cover comprising an integral plate of sheet steel of comparatively shallow dish shape having the interior surface concave and the exterior surface convex giving an arched form to the body portion of the cover in all directions, and having the edges flexible for adapting the under surface to fit the top rim of the transformer tank.

1,475,534. WATER FILTER. GEORGE BLAUFUSS, Napa, Calif. Filed June 10, 1920. Serial No. 387,885. 12 Claims. (Cl. 210—120.)



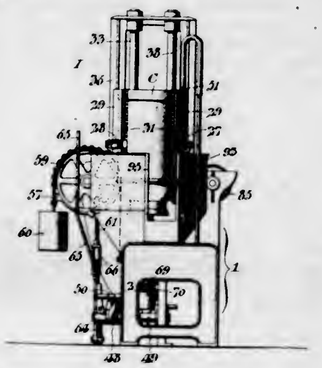
1. In a filter of the character described a filtering unit comprising a plurality of porous filtering plates, said plates being arranged in a plurality of contiguous rows placed side by side, and each row consisting of a plurality of superposed vertical plates arranged on edge one upon another, said superposed plates being connected so that the flow of all the plates in one row may be combined, a plurality of discharge connections, one for each row of plates and means common to the contiguous rows of plates for clamping the same together to form a single unit.

1,475,535. MILK-CAN-WASHING MACHINE. CHARLES E. BONINE, Melrose Park, and HENRY W. STAUFFER, Manheim, Pa., assignors to John H. Moseman, Lancaster, Pa. Filed May 21, 1917. Serial No. 169,840. 11 Claims. (Cl. 141—7.)



8. A milk-can washing machine comprising, in combination, a washing station, a rinsing station and a steam sterilizing station; steam injectors for supplying washing and rinsing water at said washing and rinsing stations; and valve means for controlling in unison the steam supply to said injectors and to said steam sterilizing station.

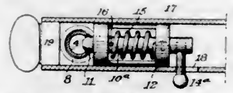
1,475,536. MACHINE FOR WASHING MILK CANS OR SIMILAR RECEPTACLES. CHARLES E. BONINE, Melrose Park, and HENRY W. STAUFFER, Manheim, Pa., assignors to John H. Moseman, Lancaster, Pa. Filed May 3, 1920. Serial No. 378,551. 8 Claims. (Cl. 15—72.)



1. A milk can washing machine including, in combination, a vertically disposed hollow rotating shaft, said shaft having a nozzle for discharging the wash water against the interior of the can, brushes carried by said shaft for engaging the interior of the can, arms for supporting the can, brushes carried by said arms and engaging the outer surface of the can, said arms being mounted on separate shafts and having intermeshing segmental gears, whereby the movement of one arm is imparted to the other, a spring for normally forcing the arms toward each other, and treadle control means for rotating one of the shafts to separate the arms.

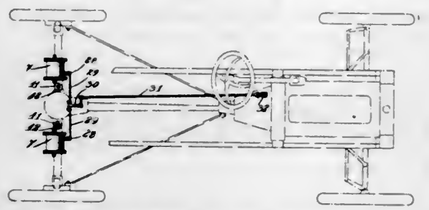
1,475,537. CRIB. JOHN H. BRADLEY, Philadelphia, Pa. Filed Aug. 7, 1922. Serial No. 580,022. 4 Claims. (Cl. 5—100.)

1. In a drop side crib, the combination of vertical rods carried by the head and foot ends, a side section having tubular end members adapted to slide on said vertical rods and top and bottom rails, extensions carried by one of said rails, and spring actuated bolts carried in said extensions and adapted to engage recesses in the vertical rods to support the side section.



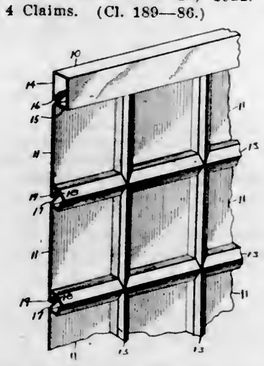
3. As a new article of manufacture, a bolt carrier comprising a tubular member having its central portion removed whereby end rings with connecting bars are provided, a slidable bolt arranged to pass through said end rings, a spring occupying the central portion of said carrier between said end rings and surrounding said bolt; said spring being in engagement with the bolt so as to hold the same in a projected position, and a shoulder carried by the bolt and serving to limit its movement in one direction; said device being adapted for insertion in the rail of a tubular crib frame to constitute retaining means for supporting a portion of the latter slidably mounted with respect thereto.

1,475,538. BRAKE. CURTIS E. BRADBURN and AUGUST FINKE, Garden City, Kans.; said Bradburn assignor of his entire right to William Wonn, Garden City, Kans. Filed Oct. 21, 1922. Serial No. 596,097. 6 Claims. (Cl. 188—92.)



1. In a fluid brake the combination with an axle housing and an axle shaft therein, of a brake housing supported by the axle housing, oppositely pitched meshing worms within the brake housing, one of said worms being connected to and revoluble with the axle shaft and constituting means for rotating the other worm, a by-pass communicating with the ends of the brake housing, a fluid within the brake housing and by-pass, and means for controlling the flow of fluid through the by-pass.

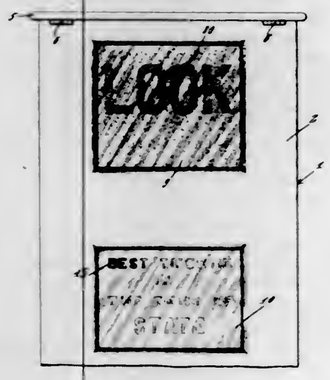
1,475,539. HANGING WALL. CHARLES S. BURTIS, Brooklyn, N. Y. Filed Nov. 24, 1922. Serial No. 603,026. 4 Claims. (Cl. 189—86.)



1. A hanging wall having a main supporting member, a group of parts, coacting means on the said member and the said parts whereby the parts are suspended from said

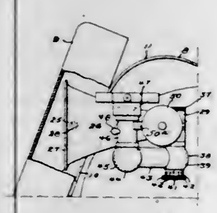
member, and other groups of parts which embody means whereby said groups are suspended from each other and from the first group of parts, and a finishing part disposed adjacent the bottom group of parts.

1,475,540. ADVERTISING MACHINE. HENRY M. CHEEK, Little Rock, Ark. Filed Sept. 30, 1922. Serial No. 591,588. 4 Claims. (Cl. 40—28.)



1. In a device of the class described a porous member; a stencil cooperating therewith; means for directing a blast of air laden with finely divided material, against the porous member; and means for intermittently cutting off the passage of air through the stencil.

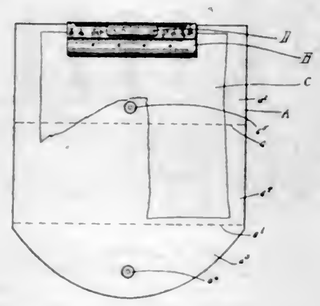
1,475,541. SOUND-REPRODUCING MACHINE. FRANCESCO CIRELLI, Philadelphia, Pa. Filed May 24, 1921. Serial No. 472,206. 2 Claims. (Cl. 274—43.)



1. In a sound reproducing machine, a sound conducting section, a second sound conducting section pivotally carried by said first named section, sound producing means carried by said last named section, and a receptacle provided with a cover having a portion for abutment with the last named section adapted to lock said section against pivotal movement with the sound reproducing means raised out of operative position.

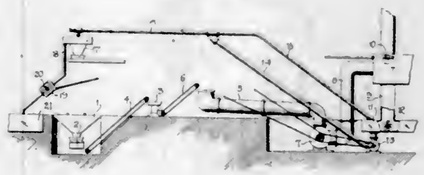
1,475,542. POCKET FOLDER. PATRICK H. CONNEIGHTON, South Norwood, Ohio. Filed Nov. 22, 1921. Serial No. 517,141. 1 Claim. (Cl. 129—35.)

In a device of the class described the combination of a foldable cover, a pair of jaws hingedly connected along their edges and provided with co-operating means adjacent their free edges for securing papers between the free ends of the jaws, one of the jaws being mounted along its free edge of the cover, and a U-shaped clip comprising resilient branches between which the jaws may be yieldingly received when in their closed position, one of the branches having an extension pivotally



mounted on the jaw carrying the cover, whereby the clip may be moved to an extended position for freeing the jaws and to a locking position for clamping the jaws and to permit enclosure of the jaws, clip, and papers within the cover.

1,475,543. PROCESS OF PREPARING COAL FOR COKING. HENRY DANNETTELL, Evansville, Ind., assignor of one-half to Burtis U. Cain, Evansville, Ind. Filed Sept. 20, 1919. Serial No. 325,236. 1 Claim. (Cl. 83—84.)

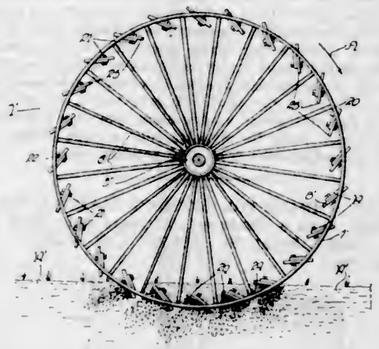


The continuous process for preparing coal for coking consisting in reducing the coal to a dust-like constituency, subjecting the coal dust to a blast of air acting as a conveying means, introducing a finely divided mist-like spray of water into the dust laden air whereby each particle of coal dust is thoroughly wetted, agitating the resulting mixture to prevent settling of the coal particles, and subjecting the mixture to a wet separation where the minute particles are caused to adjust themselves in relation to each other by reason of the thorough saturation of each particle, substantially as set forth.

1,475,544. TRACTOR WHEEL. GREGORY C. DAVISON, New London, Conn. Filed Sept. 6, 1919. Serial No. 322,087. 3 Claims. (Cl. 301—43.)

3. In a wheel of the class described, a relatively wide band forming a rim, a series of mounting pieces stamped

from said band and projecting inwardly therefrom, and a series of tread members secured to said inwardly pro-

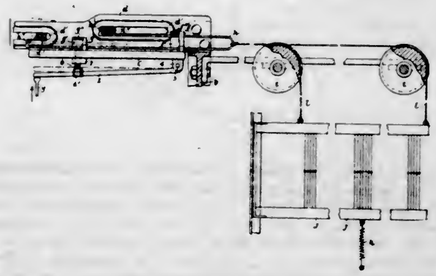


jecting mounting pieces and adapted to project through openings provided in the rim by the stamping of said mounting pieces therefrom.

1,475,545. ARSENATE OF LIME PRODUCT AND PROCESS OF MAKING SAME. LOUIS CHARLES DREFAHL, Lakewood, and CHARLES H. SAKRYD, Cleveland, Ohio, assignors to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 30, 1922. Serial No. 532,833. 12 Claims. (Cl. 23—13.)

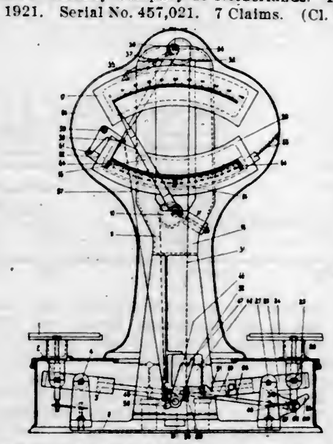
1. Process of making a stable, water-insoluble arsenate of lime product which comprises precipicating calcium arsenate in a medium maintained at a temperature of from 120° F. to 160° F.

1,475,546. HARNESS MECHANISM FOR LOOMS. PETER G. GIELEN, Paterson, N. J. Filed May 16, 1921. Serial No. 469,921. 3 Claims. (Cl. 139—71.)



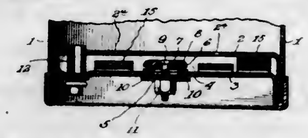
1. In combination, with a plate-like support, a set of back-and-forth movable actuators each arranged close to and movable parallel with one broad face thereof, said support having means to guide the actuators, means to move the actuators back and forth including a knife movable back and forth substantially parallel with said face, said actuators having portions thereof movable into and out of the path of movement of the knife, and means, arranged on the support opposite and close to its other broad face and having parts thereof penetrating said support, for selectively controlling the movements of said actuators into and out of the path of movement of the knife.

1,475,547. WEIGHING APPARATUS. CORNELIS DE GRAAF, Jr., and EDUARD BURMAN, Rotterdam, Netherlands, assignors to Maatschappij tot Vervaardiging van Snijmachines volgens "Van Berkel's Patent" en van andere Werktuigen, Rotterdam, Netherlands, a Limited Liability Company of Netherlands. Filed Mar. 30, 1921. Serial No. 457,021. 7 Claims. (Cl. 265—61.)



1. Weighing apparatus of the type described, comprising two load supports, a plurality of indicating scales for each load scale facing in different directions, a pointer for each indicating scale and translating mechanism between the two load scales and the respective pointers affording independent operation of the two scales and reading of the indicating scales co-operating therewith from different directions.

1,475,548. DEHYDRATING OIL CONTAINER. EDWARD J. HUNT, Llewellyn Park, West Orange, N. J. Filed May 4, 1921. Serial No. 466,864. 2 Claims. (Cl. 220—85.)



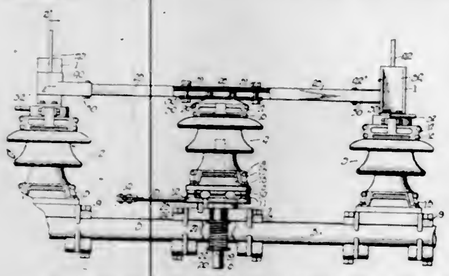
1. A shipping or other container for oil, comprising a receptacle having a head, a dehydrating chamber formed beneath the head and provided with an opening for receiving a charge of water-absorbing material, said chamber being in open communication with the interior of the receptacle to permit circulation of water laden oil in contact with the absorbing material to thereby abstract any water content from the oil.

1,475,549. SWITCH. ERNEST H. JACOBS, Chicago, Ill., assignor to Electrical Engineers Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 24, 1919. Serial No. 340,353. 32 Claims. (Cl. 200—48.)

17. In combination, switch terminals, a switch member pivoted at its center for rotative movement, means for rotating said switch member into alignment with said terminals and means for thereafter moving said member along its axis of rotation into engagement with said terminals, said last means comprising relatively steep cam means for locking the member and the terminals together.

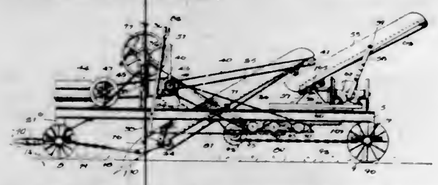
20. In combination, a switch terminal, a movable switch member, a rotatable operating member associated therewith, quick acting cam means between said rotat-

able operating member and said movable switch member for moving said switch member into alignment with said switch terminal and thereafter camming said movable switch member into engagement with said terminal and quick acting cam means for breaking contact between said movable switch member and said switch terminal.



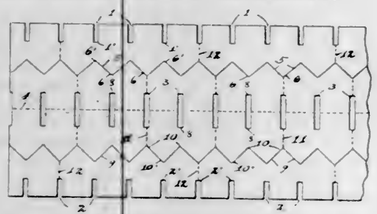
28. In combination, a terminal having two different contacts, and a switch element having two different contacts and capable of two different kinds of movements, one movement bringing one set of contacts into engagement and positioning the switch element in alignment for the next movement, and the second movement bringing the other set of contacts into engagement, and means for actuating switch elements in both movements, engagement of the first set of contacts rendering the actuating means for the second movement operative.

1,475,550. DITCH DIGGER. ADOLPHUS NAYLOR, Medford, Oreg. Filed June 12, 1922. Serial No. 567,705. 10 Claims. (Cl. 37—102.)



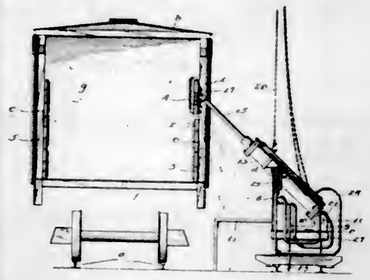
1. A ditch digging machine comprising a frame, a conveyor carried thereby, a shovel pivoted to the lower end of said conveyor, a tongue having a limited sliding connection with the frame, and means whereby to establish a direct driving connection between the tongue and the shovel.

1,475,551. METHOD OF FORMING ROOFING-STRIP BLANKS. FREDERICK C. OVERBURY, Rutherford, N. J., assignor to Flintkote Manufacturing Company, Boston, Mass., a Corporation of New Jersey. Filed Mar. 24, 1916. Serial No. 86,456. Renewed Oct. 5, 1921. Serial No. 505,567. 1 Claim. (Cl. 164—17.)



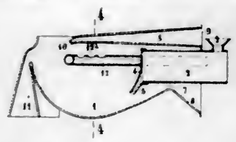
A process of producing from a length of roofing material of sufficient width to make at least four unit roofing strips each simulating in appearance, when laid in a roof, a plurality of individual shingles, comprising forming equidistantly spaced cut-out portions along the longitudinal outer edge of said strip of material, and forming a series of equidistantly spaced cut-out portions intermediate the outer edges of said strip of material, longitudinally severing said length of material along substantially undulating spaced lines which do not intersect the cut-out portions, longitudinally severing said length along a substantially straight line which intersects the intermediate cut-out portions and transversely severing said length of material at predetermined spaced points for forming four unit strips from the width of said length of material, each of the unit strips having along one edge a series of notches, and along its opposite edge cut-out portions of different configuration from said notched edge.

1,475,552. MEANS FOR OPENING GRAIN DOORS OF CARS. JOHN A. PETERSON, Baltimore, Md. Filed May 22, 1922. Serial No. 562,717. 13 Claims. (Cl. 254—93.)



3. The combination with a railway track, of means for opening the grain doors of cars on the track comprising a support at one side of the track, a bar pivotally mounted on said support above the track and adapted to extend in an upwardly inclined direction from its pivotal point to different vertical parts of the grain door of a car on the track, means on the upper end of said bar for engaging a grain door, and means for forcing said bar endwise toward the door.

1,475,553. FUEL BURNER. ANDRÉ MARIE PASCAL RENÉ PIÉDALLU, Sevres, France. Filed Feb. 2, 1922. Serial No. 533,696. 2 Claims. (Cl. 158—91.)

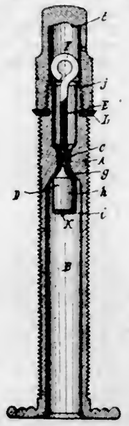


1. A burner for liquid or liquefiable fuels, comprising a cup forming a combustion chamber,—a tube carried by the said cup for leading in the latter the liquid fuel,—a flared opening on the front face of the cup for leading in the lower part of the latter the atmospheric air necessary for the ignition of the fuel and for imparting, at the same time, to this air an accelerated speed,—a nozzle of decreasing cross section, arranged above the said cup and adapted to take the atmospheric air and to lead it in a reheated condition and at an accelerated speed above the ignited fuel,—a nozzle of decreasing cross section arranged at the rear part of the cup and adapted to take additional atmospheric air and to lead it above the ignited fuel for completing the combustion.

1,475,554. VALVE. JACQUES AUGUSTE SAHUC, Castelane-Montratier, France. Filed May 10, 1921. Serial No. 468,441. 3 Claims. (Cl. 152—12.)

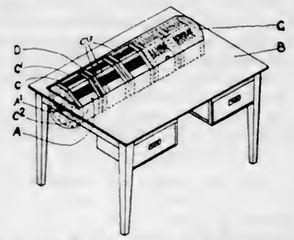
1. A non-demountable valve for pneumatic tires, comprising a body having a bore provided with a reduced

neck, a valve of elastic compressible material, of greater normal diameter than said neck and adapted to be pushed



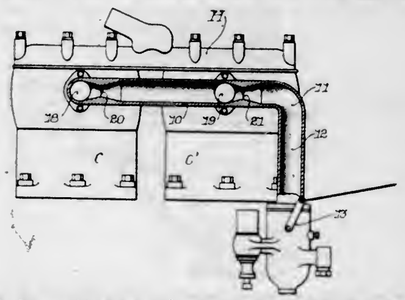
therethrough and to then expand, and a stem attached to the valve and normally extending through said neck.

1,475,555. FILING CABINET. ALFRED EUSDEN SARGEANT and SYDNEY ARTHUR MOODY, Brisbane, Australia. Filed Apr. 15, 1920. Serial No. 374,180. 4 Claims. (Cl. 45—3.)



1. A filing cabinet comprising a supporting member, a rotatable drum carried by said supporting member and provided with a circumferentially arranged series of peripherally opening pockets, and rockably mounted members designed to project over the open ends of the pockets for holding cards or the like within said pockets when the pockets are in inverted position.

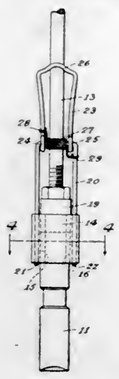
1,475,556. INTAKE MANIFOLD FOR INTERNAL-COMBUSTION ENGINES. HARRY LE VAN HORNING, Waukesha, Wis., assignor to Waukesha Motor Co., Waukesha, Wis., a Corporation of Wisconsin. Filed June 4, 1917. Serial No. 172,623. 3 Claims. (Cl. 123—52.)



1. In combination, an intake conduit section having lateral extensions at various distances from the end, said extensions having bores communicating with the bore of the conduit, means to introduce an explosive mixture to one end only of said conduit, and venturi throats in said conduit one in advance of each of said lateral bores

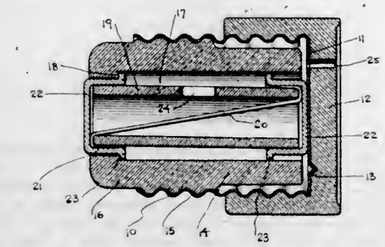
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1,475,557. TAPPET SILENCER. FREDERICK M. ALBRECHT, Stratford, Conn. Filed Sept. 14, 1923. Serial No. 662,605. 6 Claims. (Cl. 123—90.)



1. The combination with a valve push rod, a lifter plunger, and a clamp member connecting them together, of a silencing device comprising a member connected to said clamp member, a member hingedly connected thereto and engaging the side of said push rod, and spring means adapted to yieldingly press said members into relation with said clamp member and push rod.

1,475,558. FUSE PLUG. ERNEST G. APPLETON, Chicago, Ill., assignor to Chicago Fuse Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed May 17, 1921. Serial No. 470,250. 13 Claims. (Cl. 200—128.)

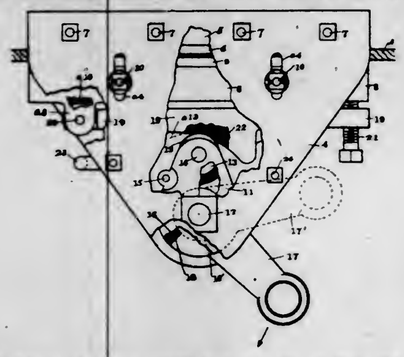


1. A fuse plug comprising a metallic shell, an insulating sleeve removably secured therein, a tubular fuse casing within said sleeve, metallic end caps on said casing, and means operable by the assembly of said sleeve with said shell for rigidly positioning said casing and end caps with one cap in contact with said shell and the other cap extending outwardly from said plug.

1,475,559. LOG-LOADING JACK. WHITNEY A. ARCHIBALD, Bellingham, Wash. Filed Jan. 9, 1923. Serial No. 611,580. 9 Claims. (Cl. 104—208.)

1. In a log loading jack in combination, a jack housing, a cable-clamp member fixed to said housing, a cable-clamp member slidably engaged with said housing adapted to coact with said fixed clamp member to clamp on a cable between them and having a cam surface thereon, and a lever fulcrumed in said housing one end of which bears on said cam surface on said movable-clamp mem-

ber adapted to force it into closer proximity to said fixed-clamp member when turned on its fulcrum in one direction and the other end of which is connectable to a log



the weight of which turns said one end in said one direction thereby forcing said movable-clamp member into closer proximity to said fixed clamp member.

1,475,560. UNION SUIT. DAVID ATWATER, Westfield, Mass. Filed June 7, 1922. Serial No. 566,566. 2 Claims. (Cl. 2—144.)



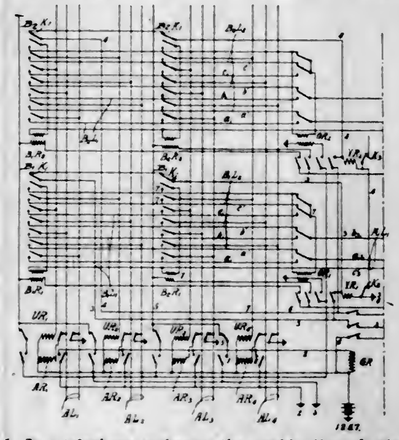
2. The combination, in a bifurcated union suit, with a supporting member for each leg, said member stitched at its side edge portions to a leg of the suit, the bottom edge of said member being free, and there being a slot in said member adjacent to said bottom edge, of a tape receivable in said slot, and provided with a clasp and button-provided buckle.

1,475,561. COMBINED REAMER AND TAP. JOHN BATH and HARRY F. CLIFFORD, Worcester, Mass.; said Clifford assignor to said Bath. Filed Apr. 27, 1921. Serial No. 464,806. 1 Claim. (Cl. 10—140.)



A combined reamer and tap for threading a cylindrical hole comprising a threaded pilot fitting the threads of a rough tapped hole, a finishing tap for said straight rough tapped hole, and a reamer interposed between said pilot and said tap and of a size effective to ream the rough tapped threads substantially to finished inner diameter and to remove burrs therefrom before the operation of the finishing tap.

1,475,562. CIRCUIT ARRANGEMENT FOR TELEPHONE PLANTS. GOTTHILF ANSGARIUS BETULANDER, Villastad, and NILS GUNNAR PALMGREN, Stockholm, Sweden, assignors to The Relay Automatic Telephone Company, Limited, London, England. Filed Mar. 31, 1920. Serial No. 370,095. 4 Claims. (Cl. 179—18.)

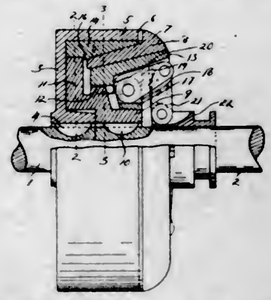


1. In a telephone exchange, the combination of primary, secondary and tertiary groups of lines, means for connecting any line of the primary group to any free line of the tertiary group through a free line of the secondary group giving access to such line of the tertiary group, relay means for testing the condition of one of the groups other than the primary group, means for testing the condition of the other non-primary group, and means for rendering the means for testing the secondary group inoperative if the lines of the tertiary group are busy.

1,475,563. PURIFICATION OF BRINES. BENJAMIN TALBOT BROOKS, Bayside, N. Y., assignor to Mathieson Alkali Works, New York, N. Y., a Corporation of New York. Filed Feb. 8, 1921. Serial No. 443,434. 5 Claims. (Cl. 23—13.)

1. The method of purifying brine, which comprises the step of treating the brine to precipitate calcium and magnesium therefrom as carbonates in conjunction with the step of treating the brine with barium sulfide to remove sulfates therefrom, leaving a soluble sulfide in solution.

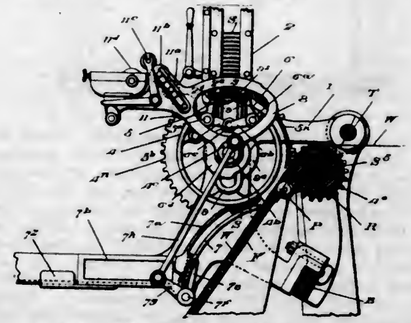
1,475,564. CLUTCH. VICTOR COLLIAU, Detroit, Mich., assignor to Standard Gear Company, Detroit, Mich., a Corporation of Michigan. Filed July 23, 1921. Serial No. 486,960. 10 Claims. (Cl. 192—65.)



1. In a clutch, the combination with a driving shaft and a drum thereon having a cylindrical flange, of a driven shaft, an expanding ring within said drum and

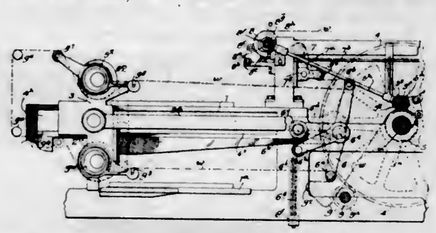
adapted to engage the inner face of said cylindrical flange, said expanding ring having a wedge shaped portion, an outer cone engageable with said wedge shaped portion, an inner cone nonrotatably secured to said driven shaft and adapted to move said outer cone longitudinally of said driven shaft, and means for actuating said inner cone to move said outer cone to expand said expanding ring.

1,475,565. STENCIL-ADDRESSING MACHINE. PAUL F. COX, Chicago, Ill. Filed Dec. 15, 1920. Serial No. 430,963. 25 Claims. (Cl. 101—53.)



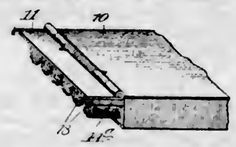
1. In stencil addressing mechanism the combination with a magnetizable stencil member; a movable carrier; and permanent magnets thereon adapted to retain the magnetizable stencil member thereon, and cam means for causing the magnets to take the stencils at the receiving point, and to release the stencils after the printing operation.

1,475,566. PRINTING PRESS. PAUL F. COX, Chicago, Ill., assignor of one-half to Joseph L. Cox, Chicago, Ill. Filed Dec. 13, 1922. Serial No. 606,641. 14 Claims. (Cl. 101—236.)



1. A traveling cylinder web printing press having a reciprocating cylinder, and means for reciprocating the cylinder; a device for looping the web, a cam moving with the cylinder, and means controlled by the said cam for actuating the looping device.

1,475,567. CIGARETTE CASE. BENJAMIN L. DALL, River Forest, Ill. Filed June 5, 1922. Serial No. 565,839. 3 Claims. (Cl. 206—41.)



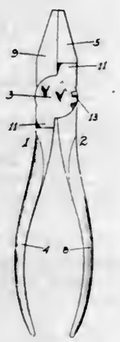
2. A receptacle for cigarettes and like articles comprising a hollow case open at one end, a cover hingedly secured thereto at the open end, and a U-shaped member slidable within said case, to expose said articles, the ends of the U-shaped member extending in a straight line along the side to which the cover is hinged, so as to raise the cover as said member is forced outwardly.

1,475,568. ALPHABETICAL DIVIDER FOR CARD-INDEX SYSTEMS. GEORGE H. DAWSON, Cambridge, Mass., assignor to Library Bureau, a Corporation of New Jersey. Filed Dec. 5, 1921. Serial No. 520,189. 2 Claims. (Cl. 129—16.7.)



2. In an overlapping card index system, an alphabetical divider comprising a supporting and spacing bar, a member hinged to said bar, a colored strip secured to the lower edge of said member, and extending beyond the lateral edges thereof.

1,475,569. PLIERS. JOHN DONDERO, Stockton, Calif. Filed Apr. 10, 1922. Serial No. 550,985. 3 Claims. (Cl. 294—36.)

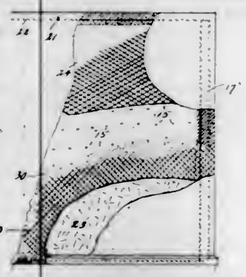


1. A pliers comprising a pair of opposed handle and jaw members adapted to be positioned in opposed but cooperating relation, plates formed intermediate the jaw and handle portions and bearing against each other, and a retaining plate bearing against the outer surface of one of the plates and fixed to the member having the other plate and beyond said first named plates.

1,475,570. PACKED WALL CONSTRUCTION. GEORGE R. DYE, Indianapolis, Ind. Filed Dec. 28, 1921. Serial No. 525,317. 6 Claims. (Cl. 72—16.)

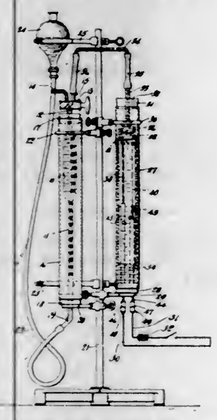
1. A one-piece wall comprising surface members of tenacious, strongly united material extending substantially in a single plane from top to bottom of the wall, ties con-

necting the member of one surface with that of the other, and a filling between them of a material which is



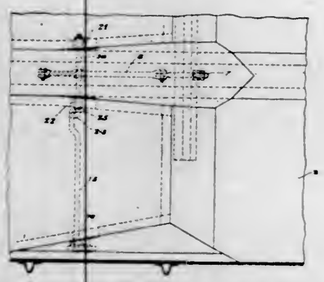
normally loosely adherent but which is closely compacted in the wall.

1,475,571. GAS TESTER. THOMAS REUBEN ERNEST, Chicago, Ill., assignor to Chicago Apparatus Co., Chicago, Ill., a Corporation. Filed May 15, 1922. Serial No. 561,173. 13 Claims. (Cl 23—3.)



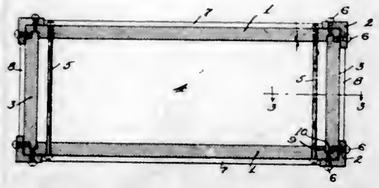
1. A gas tester comprising means for measuring gas; means for cooling said measuring means; a combustion chamber; connections between said chamber and measuring means; and means for cooling said chamber and for absorbing any explosive force occurring during the test.

1,475,572. HOPPER-DOOR-OPERATING MECHANISM. FREDERICK S. GALLAGHER, Yonkers, N. Y. Filed Nov. 6, 1922. Serial No. 599,365. 2 Claims. (Cl. 105—299.)



1. In an operating means for hopper car doors comprising a winding shaft having a lateral extension at one end, and an operating shaft having a lateral extension at one end, provided with an aperture for journaling it upon said winding shaft.

1,475,573. KNOCKDOWN FLOWER BOX AND FERNERY. OLLIE C. GEORGE, Crystal Lake, Ill. Filed June 10, 1922. Serial No. 567,271. 1 Claim. (Cl. 217—12.)

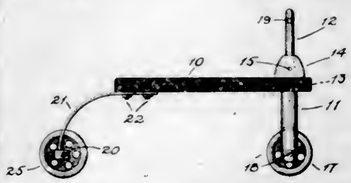


A container consisting of side members, grooves on the inside adjacent the ends of said side members, strips on the outside of the side members adjacent the top and bottom edges of said members, and adapted to give a panel effect to these members, end members, strips similarly arranged on said end members, tongues on said end members adapted to engage with complementary grooves on the inside of said side members, legs attached to the side members and adapted to conceal the joint between said side and end members, a groove adjacent the inside bottom edges of the side and end members, a bottom member adapted to fit in said groove, and bolts adapted to hold the assembled container together.

1,475,574. EDIBLE PRODUCT AND PROCESS OF MAKING THE SAME. WILLIAM H. GESELL, Montclair, N. J. Filed Apr. 8, 1921. Serial No. 459,681. 2 Claims. (Cl. 99—13.)

2. The process of emulsifying edible oils and fats which consists in admixing an oil or fat with cetyl alcohol, the proportion of alcohol being not greater than one per cent by weight, and thereafter adding milk to the mixture to produce a butter substitute.

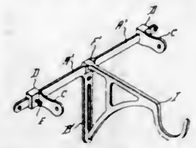
1,475,575. TOY VEHICLE. ALFRED C. GILBERT, New Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Filed Aug. 27, 1919. Serial No. 320,297. 5 Claims. (Cl. 208—165.)



1. In combination with a toy vehicle provided with a rigid body member, a front steering post and a supporting axle, means for securing the body member to the steering post and means for securing said axle to said body member, comprising a leaf spring rigidly secured to said body member with an end projecting therefrom, and a clamp provided with a set screw for rigidly clamping said spring to said axle.

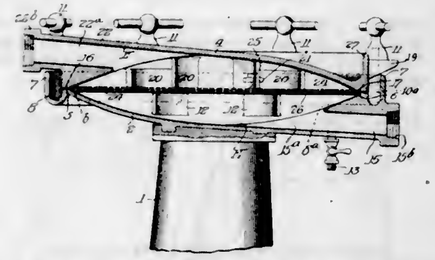
1,475,576. COMBINATION CURTAIN POLE AND SHADE HOLDER. STEPHEN GOOD, Cleveland, Ohio. Filed June 18, 1919. Serial No. 304,986. 1 Claim. (Cl. 156—24.)

In a device of the kind described, the combination with a support comprising a vertical arm and oppositely disposed horizontal arms extending from the upper end of said vertical arm, there being a recess at the juncture of said horizontal and vertical arms, said vertical arm also having an aperture near its lower end, of shade brackets adjustable upon the horizontal



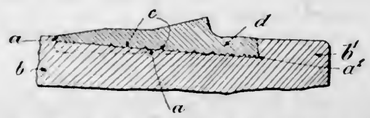
arm, and a curtain pole bracket having a hook at its upper end to engage the recessed portion of the horizontal arm, and a lug at its lower end engaging the aperture in the lower end of the vertical arm, the outer end of said curtain pole bracket being curved to receive a curtain pole.

1,475,577. FILTER. WALTER H. GREEN, Chicago, Ill., assignor to International Filter Co., Chicago, Ill., a Corporation of Illinois. Filed May 31, 1921. Serial No. 473,611. 7 Claims. (Cl. 210—164.)



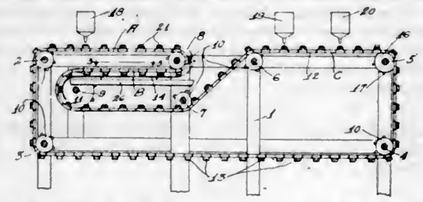
1. In a filter of the class described the combination of casing members formed with cavities for the confining of fluid, said casing members being provided about said cavities and within said cavities with supporting members for sustaining a sheet of filtering material, said casing members being provided with means affording inlet and outlet conduits each having communication with said cavities on opposite sides of the supports therewithin.

1,475,578. PROJECTILE. ROBERT ABBOTT HADFIELD, Westminster, and ALEXANDER GEORGE MCKENZIE JACK, Sheffield, England. Filed Oct. 30, 1918. Serial No. 260,234. 3 Claims. (Cl. 102—90.)



3. An armour piercing projectile having a body of substantially cylindrical shape and of uniform diameter to the extreme rear end thereof except where the driving band groove is formed, and consisting of one piece of metal, the base of said groove being made of conical shape and provided with integral circumferentially arranged ribs or ridges of waved or corrugated shape in the direction of their length, the diameter of the front end of the conical base of the groove being only slightly less than the external diameter of the adjacent portion of the body of the projectile, and a driving band fixed in said groove between the ends thereof and interlocked with said ribs or ridges.

1,475,579. DEVICE FOR FORMING CHOCOLATES. MILTON J. HARLAN, Chicago, Ill. Filed Jan. 19, 1922. Serial No. 530,248. 2 Claims. (Cl. 107—1.)



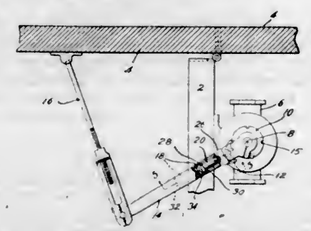
2. A device for mechanically forming filled confections in cups, said device comprising an endless conveyor, means for driving the same, bars forming a part of said conveyor having pockets therein for carrying cups in which the confections are to be sold, guide members for causing the upper lap of the conveyor to travel first in a horizontal upright position, then in a horizontal inverted position and then back into a horizontal upright position, feed tanks mounted above the upright portions of the upper lap of said conveyor to permit successive fillings of the cups carried by the conveyor bars, retaining screens mounted below the inverted portion of the conveyor for supporting and holding the cups in position during the time they are traveling in an inverted position, a drip pan beneath the retaining screens for receiving material discharged from the inverted cups, and ejecting mechanisms at the end of the upper lap of the conveyor for pushing the filled cups out of the bar pockets.

1,475,580. CLARIFIED SERUM ANTITOXIN AND PROCESS OF MAKING THE SAME. ROBERT R. HENLEY, Washington, D. C., dedicated, by mesne assignments, to the People of the United States. Filed June 21, 1922. Serial No. 570,008. 2 Claims. (Cl. 167—10.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. In the art of preparing a clarified serum from old phenolized defibrinated blood, the step comprising the addition to such blood of a chemical of low boiling point such as chloroform, and thereupon effecting the separation of a clarified serum from the clotted cell constituents and débris originally contained in the said defibrinated blood.

2. In the art of preparing clarified hog-cholera serum anti-toxin from old, phenolized, defibrinated blood hog cholera anti-toxin, the step comprising the addition of chloroform to such anti-toxin and thereupon effecting the separation of a clarified serum anti-toxin from the inert cell constituents and débris originally present in said defibrinated blood.

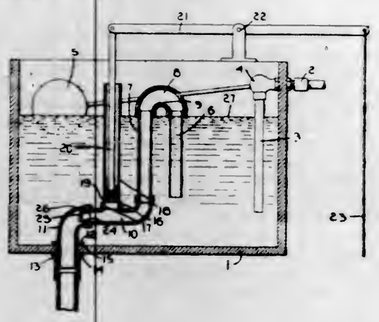
1,475,581. DOOR CLOSER. WILLIAM K. HENRY, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed Nov. 11, 1922. Serial No. 600,259. 4 Claims. (Cl. 16—65.)



1. A door closer having, in combination, a casing for attachment to the door, a spring actuated arm movable horizontally about the vertical axis of said casing and

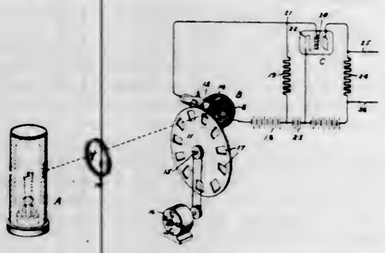
having a longitudinally extending chamber on its under side, a link pivotally connected with said arm for connecting said arm to the door case, a slidable detent mounted in said chamber arranged to engage an abutment on the casing when the door is opened, an adjustable abutment screw-threaded in the outer end of said chamber, and a coiled spring interposed between said detent and said adjustable abutment.

1,475,582. FLUSH TANK. DANIEL J. HERTY, Revere, Mass. Filed June 22, 1921. Serial No. 479,534. 4 Claims. (Cl. 4—5.)



1. A flush tank construction comprising a tank, a liquid supply, means for maintaining the liquid at a normal predetermined level in said tank, a siphon having its intake leg extending into said tank below said normal liquid level, a dry pump comprising a cylinder connected to the delivery leg of said siphon and a piston reciprocable in said cylinder operable to create a partial vacuum in said siphon and thereby to initiate siphonic action and a check valve located beyond said pump adapted to be closed by the suction action of said pump.

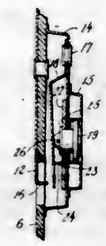
1,475,583. VARIABLE-CURRENT GENERATOR. CHARLES A. HOXIE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 20, 1921. Serial No. 471,230. 5 Claims. (Cl. 250—1.)



1. The method of producing voltage or current waves of predetermined form by means of a photo-electric device having a light sensitive cathode which consists in causing the cross sectional area of a beam of light directed on said cathode to undergo variations corresponding to complete cycles of the desired voltage or current waves.

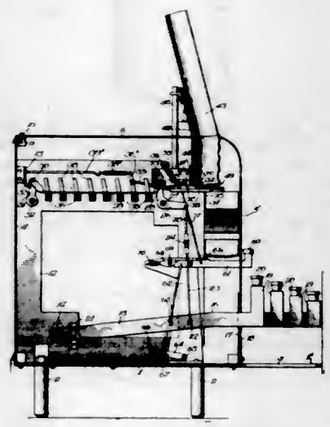
1,475,584. HANDLAMP SWITCH. FREDERICK L. HUMESTON, New Haven, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Filed Mar. 16, 1923. Serial No. 625,446. 10 Claims. (Cl. 200—60.)

1. In a switch for hand lamps, a spring contact member, a push button engaging the top of said member for flexing it into closed circuit position, a slidable housing, and a slide carried by said housing and having means cooperating with said contact member for locking said



housing, said slide and contact member being arranged so that the housing may be released by flexing said member by means of said push button.

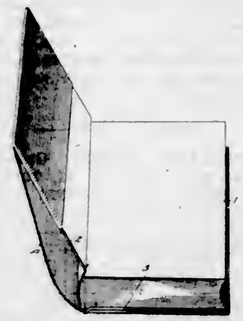
1,475,585. COIN-DISPENSING DEVICE. WALTER G. KING, Oak Park, Ill., assignor of one-half to Alma King, Oak Park, Ill. Filed May 28, 1920. Serial No. 384,910. 15 Claims. (Cl. 133—4.)



1. In a coin dispensing device, a rocker shaft, a pin carried by said shaft, a link carried by said pin adjacent to the free end thereof, an ejector operatively connected to said link, an arm carried by said shaft, a bar disposed at right angles to said arm adjacent to the pivotal axis of said shaft, and means for actuating said bar.

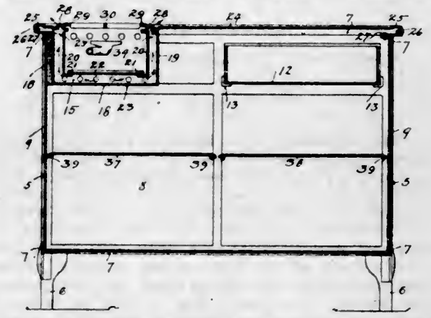
8. In a coin dispensing device, a plurality of key levers, a plurality of coin tubes, an ejector yieldably supported under each coin tube, means associated with said key levers for projecting said ejectors forwardly, a pair of auxiliary key levers, means connecting each of said auxiliary key levers with an individual ejector, whereby the latter is put out of commission when the auxiliary lever is depressed, and means for locking either said auxiliary key levers when either is depressed.

1,475,586. PROTECTIVE BOOK COVER. OSCAR V. LALONDE, New York, N. Y., assignor to Elmac Specialties Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 22, 1922. Serial No. 556,036. 4 Claims. (Cl. 281—34.)



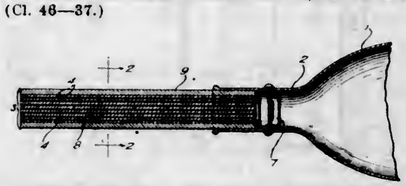
1. A protective book cover which is tubular throughout and both ends of which are free to be folded in either direction toward the central part, the end tubular portions fitting over the book covers when folded in either direction.

1,475,587. KITCHENETTE STOVE AND CABINET. JOSEPH E. LEONARD, Indianapolis, Ind. Filed Mar. 3, 1923. Serial No. 622,467. 8 Claims. (Cl. 126—37.)



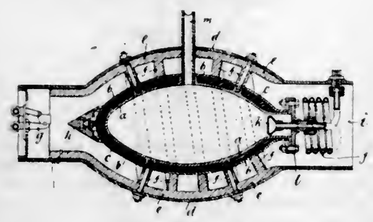
1. In a cabinet, a sheet-metal top having a raised margin, a stove-hole within the margin, and a flange depending from the margin edge, sheet-metal walls enclosing the space under the top, a vent-frame removably supported at the stove-hole said frame having an outside oblique member provided with a plurality of air-holes, a grid supported on the frame, a stove-compartment under the vent-frame in the inclosure under the table, one or more gas-burners in the stove-compartment and means for supplying a gas-mixture to the burners.

1,475,588. TOY. JULIUS J. LOZOWSKY, Brooklyn, N. Y. Filed Sept. 17, 1923. Serial No. 663,021. 2 Claims. (Cl. 46—37.)



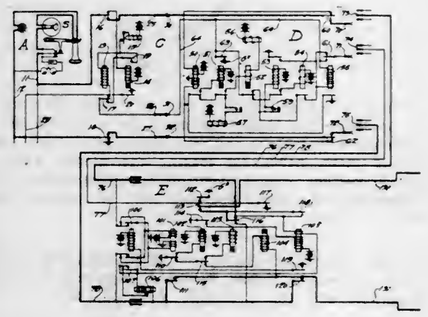
1. The combination of a toy balloon having an inlet neck, a candy mouthpiece provided with a conduit for admitting air to the balloon, one end of said mouthpiece operatively engaging the free end of said neck, and a check valve positioned in said neck between the engaged end of the mouthpiece and the interior of the balloon whereby the engaged end of said mouthpiece may be relieved of back pressure from the interior of said balloon.

1,475,589. STEAM GENERATOR. BASIL JOCK NEWTON MARDEN, Liss, England. Filed May 1, 1923. Serial No. 635,824. 2 Claims. (Cl. 122—32.)



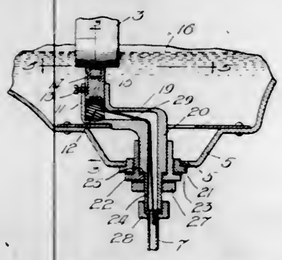
1. In a boiler, an ovoid inner shell, an ovoid outer shell enclosing and spaced from the inner shell, a filling occupying the space between the shells and fusible without volatilization at a temperature above that corresponding to the normal working pressure of the boiler, a substantially ovoid casing enclosing said outer shell and spaced therefrom, a helical partition spacing the casing from the outer shell and forming a helical flue space around the latter, a divergent baffle at one end of said outer shell and a burner in said casing directed against the baffle, said baffle being arranged to form a shield for the end of the outer shell and to spread the flame and products of combustion and cause the same to envelope the adjacent end portion of the outer shell.

1,475,590. MULTIOFFICE TELEPHONE SYSTEM. TALBOT G. MARTIN, Chicago, and BERNARD D. WILLIS, Oak Park, Ill., assignors to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 22, 1920. Serial No. 367,850. 23 Claims. (Cl. 179—27.)



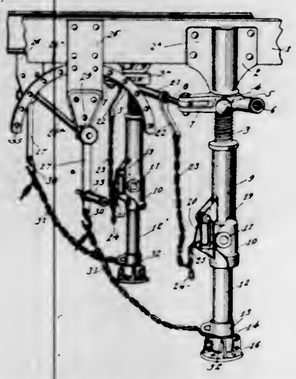
1. In a telephone system, a manual exchange, trunk lines terminating in cord circuits in said exchange, automatic substations having access to said trunk lines for calling the subscribers in the manual exchange, a plurality of register sets for registering the telephone numbers of called manual stations, and an automatic progressively movable switch individual to each of said cord circuits for connecting its associated cord circuit with an idle register set when the cord circuit is taken for use.

1,475,591. AUTOMATIC LUBRICATOR. GEORGE L. MOORE, Chicago, Ill., assignor to Helen Cadwell, Saugerties, N. Y. Filed July 1, 1921. Serial No. 481,750. 12 Claims. (Cl. 184—11.)



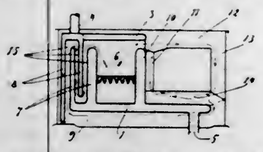
2. In combination, an oil container, a wheel rotatable in the container, a member having one end held against said wheel, said member having a channel in said end open on the side toward said wheel, there being a passage leading from the exterior of said member at a point below the oil level in the container to one end of said channel, and a discharge conduit for oil including a passage leading from the other end of said channel.

1,475,592. SEMITRAILER JACK. JAMES MORRISON, Cincinnati, Ohio, assignor to The Trailmobile Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Jan. 26, 1920. Serial No. 354,228. 17 Claims. (Cl. 254—86.)



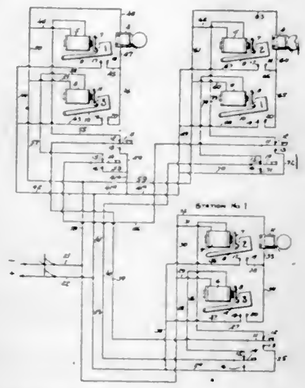
1. In a semi-trailer jack device, the combination of a pair of jacks, one rigidly mounted on each side of a vehicle and adjustable to and from the vehicle, hinged legs for said jacks, pawls for locking the hinged legs in vertical position, and a common operating device for withdrawing said pawls operable from one side of the vehicle, at least.

1,475,593. KITCHEN-RANGE WATER HEATER. PER OLOF PETTERSON, Malmo, Sweden. Filed May 10, 1923. Serial No. 638,110. 4 Claims. (Cl. 126—34.)



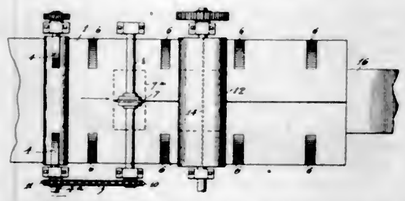
1. Kitchen-range water-heaters comprising a closed boiler located at the side of the kitchen-range and extending behind the fire-place and partly above the same and under the fire-place and the oven, said boiler being provided, laterally of the fire-place and between the outer wall and the fire-place, with a portion U-shaped in vertical section and having its legs turned upwardly and with a corresponding U-shaped portion having its legs turned downwardly, the said U-shaped portions alternating with each other but leaving a free passage to the flue-gases above and under and between the legs, so that a zigzag-shaped flue is provided which connects the fire-place with a passage located under the boiler and communicating with the flue-mouth.

1,475,594. SIGNALING SYSTEM. GEORGE A. PIERCE, Philadelphia, Pa. Filed Oct. 31, 1919. Serial No. 334,663. 5 Claims. (Cl. 177—352.)



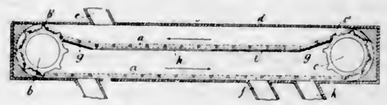
1. In a signaling system having a plurality of intercommunicating stations at least two in number, the combination of a plurality of circuit closers and relays, each station having one of said circuit closers for each of the other stations and also having one of said relays for each of the other stations, and circuit connections between said stations including a single local circuit controlled by each of said relays at the particular station where this relay is located, a single pair of signalling wires leading from each station to each of the other stations, and connections leading to said circuit closers said relays and said local circuits, from a single source of electricity.

1,475,595. APPARATUS FOR MAKING ROOFING PRODUCTS. CHESTER E. RAHR and ROBERT T. POLLOCK, Boston, Mass., assignors to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Original application filed Dec. 15, 1919, Serial No. 344,894. Divided and this application filed Nov. 5, 1920. Serial No. 421,869. 4 Claims. (Cl. 154—1.)



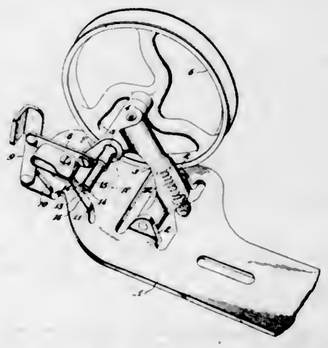
4. In an apparatus for making embossed roofing the combination with means for feeding a bituminous saturated roofing sheet, of embossing rolls consisting of a lower bed roll having a plurality of tapered recesses therein positioned longitudinally of the sheet, a pressure roll having tapered embossments adapted to register with the recesses of the lower roll, the embossments impressed into the traveling sheet having their highest portions uniformly arranged relative the sheet, and means for longitudinally slitting and transversely cutting the sheet into suitable units.

1,475,596. CONVEYER FOR SUBSTANCES IN A FINE OR LOOSE STATE OF DIVISION. ARNOLD REDLER, Sharpness, England. Filed May 24, 1921. Serial No. 472,178. 1 Claim. (Cl. 198—159.)



A conveyer chain for the purpose described, consisting of a plurality of pivotally connected links, each of said links having a pair of side members and a transverse member, said transverse member lying wholly within the space between said links and thereby constituting a conveyer flight, the links throughout the chain being of uniform height and the transverse member similarly being of uniform height, said transverse members having their heights so proportioned with respect to the distance from center to center of the transverse members that loose material will be conveyed by said chain as by a ribbon through the material.

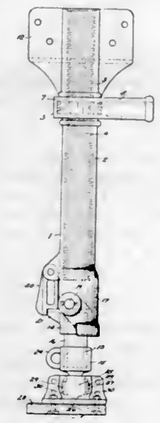
1,475,597. BOBBIN-WINDING ATTACHMENT FOR SEWING MACHINES. JOHN C. RINGE, Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Sept. 19, 1921. Serial No. 501,768. 5 Claims. (Cl. 242—20.)



1. In a bobbin-winder, a rotatable longitudinally slit bobbin-holding spindle comprising relatively yielding and non-yielding sections integral with the body of the spindle for frictionally securing a bobbin for rotation therewith.

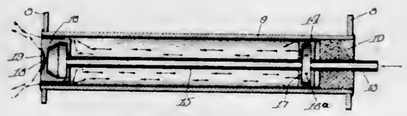
1,475,598. TRAILER JACK. CHARLES W. RIPSCH, Dayton, Ohio, assignor to The Joyce-Cridland Company, Dayton, Ohio, a Corporation of Ohio. Filed Nov. 19, 1919. Serial No. 339,133. 9 Claims. (Cl. 254—86.)

1. In a device of the character described, an upper member comprising two tubular portions having respectively right and left hand internal threads, a screw having threaded end portions to cooperate with the threads of the respective tubular portions, means for rotating said screw, one of said tubular portions having means for attaching the same to the structure to be supported, a lower member pivotally connected to the lower end of the other tubular part for movement into and out of



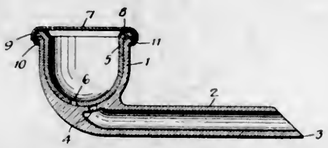
alignment therewith, and a guard carried by said lower tubular part and overlapping the upper end of said lower member.

1,475,599. FUEL-SAVING DEVICE FOR FURNACES. NELSON J. RUSSELL, Chicago, Ill. Filed Jan. 12, 1923. Serial No. 612,302. 5 Claims. (Cl. 110—75.)



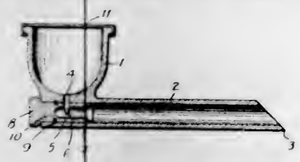
1. In a device of the class described, the combination with a furnace having a fire-box, of a conduit having one of its ends open and its other end closed, the open end of said conduit being adjacent the fire-box, an air intake pipe communicating at one of its ends with the conduit near its closed end and having its other end disposed for the intake of air, an apertured casing located in the conduit near its closed end in communication with said pipe, another casing located in the open end of the conduit and having means for discharging air forwardly therefrom, and a pipe connecting the said casings.

1,475,600. HAND SEED SOWER. MAX SCHLING, New York, N. Y. Filed June 2, 1923. Serial No. 642,944. 4 Claims. (Cl. 221—119.)



1. A pipe-like hand seed-sower of the kind described, comprising a bowl, a hollow stem projecting from the bowl forming a sowing tube, and a rotatable cup in the bowl forming a holder for the seeds and a means of regulating the passage of seeds to the stem.

1,475,601. HAND SEED SOWER. MAX SCHLING, New York, N. Y. Filed June 2, 1923. Serial No. 642,945. 2 Claims. (Cl. 221—119.)



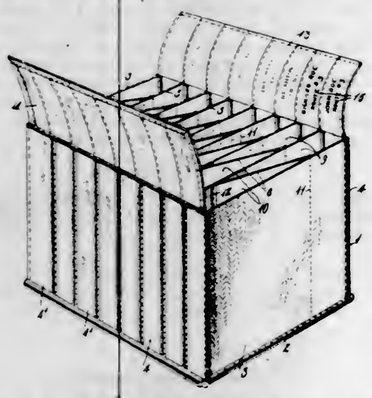
1. A pipe-like hand seed-sower of the kind described, comprising a bowl having an opening in the bottom, a hollow stem projecting from the bowl forming a sowing tube, and a hollow plug in the rear end of said stem having in its side a seed opening to cooperate with the opening in the bottom of the bowl and its hollow interior open to the interior of the stem.

1,475,602. METHOD OF MAKING STEERING WHEELS. HARRY E. SHELLER, Portland, Ind., assignor to Sheller Wood Rim Manufacturing Company, Portland, Ind., a Corporation of Indiana. Filed Dec. 14, 1921. Serial No. 522,265. 3 Claims. (Cl. 18—59.)



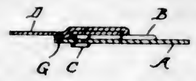
1. The process of manufacturing steering wheels, consisting in forming a core of material in a tubing machine, in wrapping said core with a covering of unvulcanized rubber, in then shaping the wrapped core in the form of an ultimate rim, in piercing the unvulcanized rubber coating and a portion of the core while formed in the shape of a rim to provide radial spoke receiving openings therein, in inserting spokes in said openings, and in vulcanizing the rim while spokes are held in said openings to cause the material of the rim to engage the spoke ends to anchor the rim to the spokes.

1,475,603. MAIL POUCH. EUGENE J. SHERIDAN, Rockland, N. Y. Filed June 6, 1922. Serial No. 566,271. 4 Claims. (Cl. 150—14.)



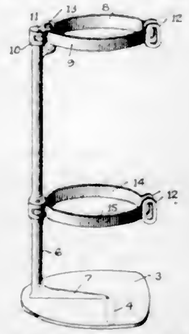
1. A pouch of the character described having suitable side and end walls, a plurality of main partitions extending across said pouch and a subpartition disposed between each pair of main partitions to divide the pouch into a plurality of compartments, said subpartitions being diagonally arranged wherein each compartment may be materially extended.

1,475,604. METHOD AND MEANS FOR ATTACHING FASTENER TAPES TO GARMENTS. JOSEPH SIEGEL, Detroit, Mich., assignor to American Lady Corset Company, Detroit, Mich., a Corporation of Michigan. Filed May 28, 1923. Serial No. 642,039. 2 Claims. (Cl. 2—58.)



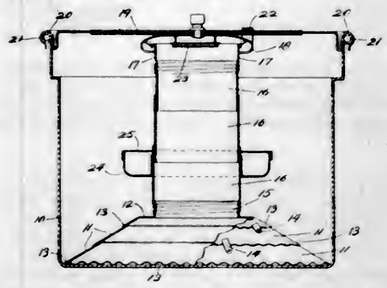
1. The method of attaching a fastener tape having a series of fasteners longitudinally spaced upon one side thereof to a garment consisting in initially overlapping the tape and garment, applying a row of stitching connecting the garment and tape, said row crossing the fasteners adjacent their securing portions, folding the garment adjacent said row of stitching to conceal the latter by the body of the garment and applying a second row of stitching securing the body of the garment through the fold thereof to the tape.

1,475,605. GOLF-BAG HOLDER. ARTHUR E. SMITH, New York, N. Y. Filed May 27, 1922. Serial No. 564,130. 2 Claims. (Cl. 224—29.)



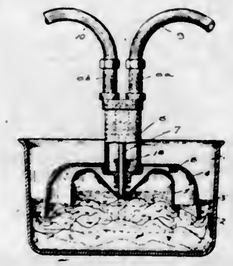
1. In a holder, a base comprising a flat plate, means thereon for detachably securing the same to a support, a rod extending upwardly therefrom, a clamp extending outwardly from said rod adapted to hold articles therein and comprising two members one of which is movable and the other of which is fixed, said members each having a slot therein and a strap adapted to pass around the articles to be held and through said slots for clamping said movable member against said articles.

1,475,606. COOKING UTENSIL. MATVEI G. SOTNIKOV, Philadelphia, Pa. Filed July 20, 1922. Serial No. 576,204. 4 Claims. (Cl. 53—1.)



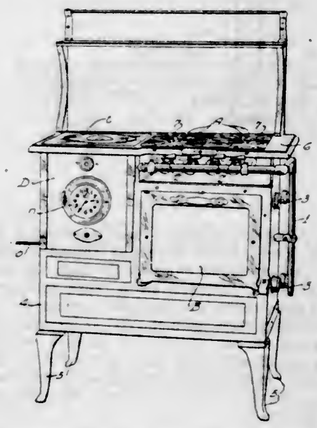
1. The combination with a cooking receptacle of an inverted funnel-like device adapted to be positioned within such receptacle, means for adjusting the base of said device to the receptacle diameter, means for adjusting the height of said device to the height of the receptacle and adjustable means for interlocking the device with respect to the rim of the receptacle.

1,475,607. WASHING MECHANISM. EARL B. SPENCER, Pasadena, Calif. Filed Aug. 3, 1920. Serial No. 401,013. 3 Claims. (Cl. 68—37.)



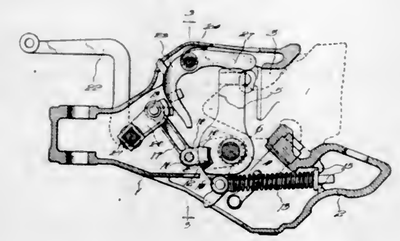
1. In a device of the character referred to, two suction members of bell-like form mounted one within the other, each of said members being movable relative to the other, and power means having two elements movable relative to each other in operation and connected, respectively, to said suction members, whereby said members are positively and mechanically operated simultaneously toward and from each other, for the purpose indicated.

1,475,608. COMBINATION GAS AND ELECTRIC STOVE. JONES T. TEMPLETON, St. Louis, Mo., assignor to Buck's Stove & Range Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 1, 1922. Serial No. 598,399. 4 Claims. (Cl. 219—35.)



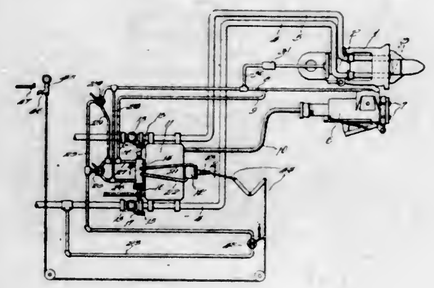
1. A combination gas and electric stove, comprising a gas-operated means consisting of open gas burners and oven burners for cooking food by the usual cooking methods, an electric unit composed of a plurality of food containers arranged in a heat insulated casing and an electric heating element surrounding said casing, and a supporting means with which said gas-operated means and said electric unit are combined in such a way as to form a unitary structure.

1,475,609. CAR COUPLER. HERBERT E. VAN DORN, Chicago, Ill. Filed Aug. 5, 1921. Serial No. 489,952. 5 Claims. (Cl. 213—77.)



3. A car coupler provided with a horizontally swinging locking dog, a vertical actuating shaft, an arm fixed to and projecting radially from said shaft, a connecting rod between said arm and said dog, and an actuating handle fixed to the shaft on the exterior of the coupler so as to serve as a combined handle and an indicator of the position of the locking dog.

1,475,610. CONTROL SYSTEM FOR CAR COUPLERS, AIR LINES, AND ELECTRIC CIRCUITS OF RAILWAY CARS. HERBERT E. VAN DORN, Chicago, Ill. Filed Aug. 5, 1921. Serial No. 489,953. 11 Claims. (Cl. 303—6.)

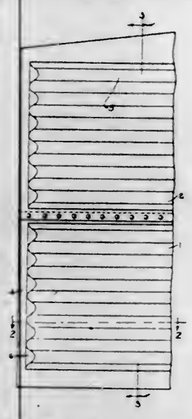


7. In a system of the character described, train pipes, valves in said pipes, a cylinder, a piston in said cylinder connected to said valves to open and close the same, a valve for controlling the admission of air to either end of the aforesaid cylinder, a cut-out switch, a second cylinder, a piston in said second cylinder connected to said switch to open and close the same, pipes leading from the ends of said second cylinder to points in the first cylinder one of which is uncovered by and lies behind the piston in the first cylinder when the piston is at one end of its stroke while the other is uncovered by and lies behind the piston in the first cylinder when it is at the opposite end of its stroke.

1,475,611. METAL CAR END. WILLIAM E. VAN DORN, Chicago, Ill. Filed Nov. 20, 1920, Serial No. 425,316. Renewed July 13, 1923. 11 Claims. (Cl. 105—410.)

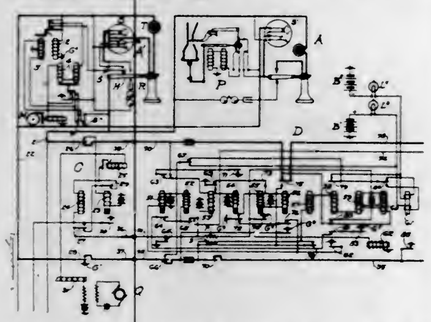
1. A sheet metal car end having flat marginal portions at two of the sides and provided between said flat marginal portions with a plurality of corrugations extending transversely of said marginal portions and merging into

each other so that the sheet has a sinuous configuration transversely of the corrugations, the ends of the corru-



gations being flattened so the corresponding ends thereof on each of said sides of the sheet lie in a plane making an acute angle with the plane of the sheet.

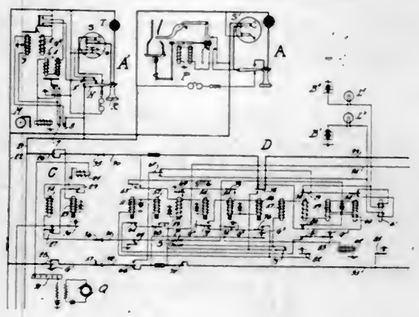
1,475,612. MEASURED-SERVICE TELEPHONE SYSTEM. JOHN WICKS, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 13, 1919. Serial No. 344,682. 29 Claims. (Cl. 179—13.)



1. In a telephone system, a calling station and a line therefor extending to a central exchange, charging equipment at said station including a polarized relay adapted to be connected to the line for controlling the operation of said charging equipment, automatic switches at the exchange controllable from said station for extending a connection to an operator's position, means whereby the operator may complete the connection to a called station, current sources of opposite polarity, and means whereby the operator while maintaining the connection can connect either of said sources to the calling line to control said relay as desired.

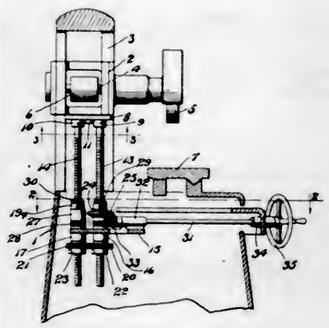
1,475,613. MEASURED-SERVICE TELEPHONE SYSTEM. JOHN WICKS, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Original application filed Dec. 13, 1919, Serial No. 344,682. Divided and this application filed Apr. 27, 1923. Serial No. 635,060. 13 Claims. (Cl. 179—6.3.)

1. In a telephone system, a calling station and a line therefor extending to a central exchange, paystation equipment at said station including a polarized relay adapted to be connected to the line for controlling the collection and refunding of deposited coins, automatic switches at the exchange controllable from said station for extending a connection to an operator's position, means whereby the operator may complete the connection



to a called station, current sources of opposite polarity, and means whereby the operator while maintaining the connection can connect either of said sources to the calling line to control said relay as desired.

1,475,614. HEAD ADJUSTMENT FOR GRINDING MACHINES. ARTHUR WILLIAMS, Grand Rapids, Mich., assignor to Wilmarth & Morman Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Nov. 2, 1920. Serial No. 421,338. 4 Claims. (Cl. 51—166.)

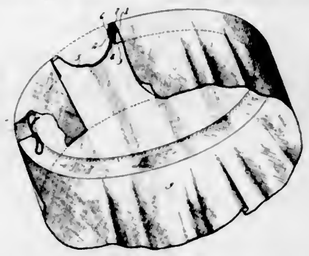


1. In a grinding machine, a head carrying a grinding wheel, two spaced apart oppositely threaded screws attached to and extending downwardly from the head, oppositely interiorly threaded sleeve nuts through which the screws pass, means for rotatably mounting the sleeve nuts and holding them against vertical movements, intermeshing gears on the sleeve nuts whereby when one is rotated in one direction the other is rotated in the opposite direction, and manually operated means connected with one of the sleeve nuts to rotate the same, substantially as described.

1,475,615. HAT LINING. CHARLES WINKELMANN, North Bergen, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Mar. 24, 1921. Serial No. 455,133. 4 Claims. (Cl. 2—113.)

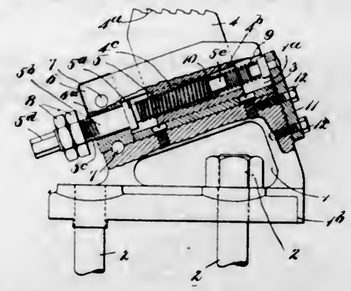
1. A hat lining comprising a top-member, a side strip having its upper marginal portion overlapping the upper face of the top-member, a line of stitches passing through the overlapped portions of the top-member and side-strip,

a relatively narrow folded strip having its proximate edges secured by said line of stitches to form a casing at least one ply of which overlaps the upper face of the



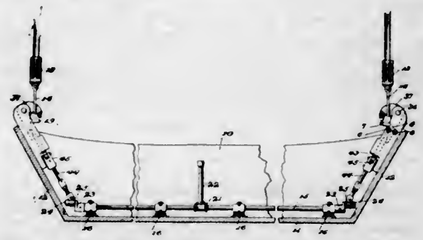
top-member, and a draw-cord disposed within said casing and serving to hold the latter bent downwardly and inwardly around the edge of the top-member to a position concealing the line of stitches.

1,475,616. DRIVING DOG FOR LATHES. AUGUSTUS WOOD, Fitchburg, Mass., assignor to Manning, Maxwell & Moore, Inc., New York, N. Y., a Corporation of New Jersey. Filed Feb. 1, 1921. Serial No. 441,702. 11 Claims. (Cl. 82—40.)



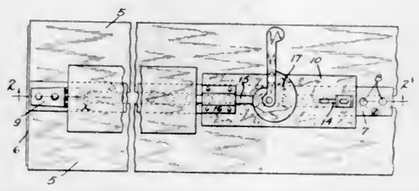
1. In a device of the character described in combination, a work engaging bit, means for mounting said bit upon a face plate or the like for movement in a direction inclined toward the work, a stop for limiting the movement of said bit toward the work, and means for adjusting said stop.

1,475,617. LIFEBOAT RELEASE. SIM EMIL ALLBIN, Seattle, Wash., assignor to Mayer Life Boat Co. Inc., Seattle, Wash. Filed Dec. 31, 1921. Serial No. 526,148. 4 Claims. (Cl. 9—23.)



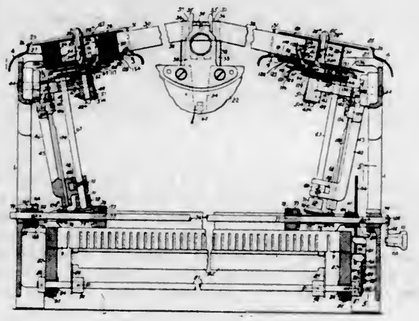
1. In a device of the character described, a hook retainer comprising a channel shaped member having a solid portion formed integral between the two side portions at one end thereof, said solid portion having a bore extending longitudinally thereof, a pin slidable through said bore, a hook pivotally supported at the end of channel member opposite to the end having the solid portion, said hook having a shank adapted to be disposed beneath said pin whereby the hook may be releasably held against pivotal turning movement.

1,475,618. QUICK-ACTION VISE. JULIUS ANDERSON, Minneapolis, Minn. Filed Dec. 16, 1922. Serial No. 607,399. 2 Claims. (Cl. 81—26.)



1. A quick-action vise comprising a base, a flat plate secured thereto and adapted to support a board, a plate having an upwardly projecting portion permanently secured to one end of said plate and forming an abutment for the end of said board, a flat member above said first mentioned plate and adapted to be freely moved by hand lengthwise thereof while detached therefrom, means carried by said member for connecting the same to said last mentioned plate at various points therealong, a jaw slidable on said member, and means for moving said jaw a short distance and clamping the same against said board.

1,475,619. TYPEWRITING MACHINE. EDWIN E. BARNEY, New Rochelle, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Mar. 30, 1921. Serial No. 456,907. 60 Claims. (Cl. 197—151.)



1. In a typewriting machine, the combination of a slotted ribbon vibrator, ribbon spools inclined inward and upward to direct the unwound portion of the ribbon towards the slots in said vibrator, shafts on which said spools are mounted, said shafts being inclined to the vertical, other shafts parallel to said first shafts and connected thereto to turn the same and feed the ribbon, and means for turning said other shafts.

1,475,620. BROOM. LORENZ BERBERICH and GEORGE BERBERICH, Pittsburgh, Pa. Filed Feb. 27, 1923. Serial No. 621,569. 3 Claims. (Cl. 15—1.75.)

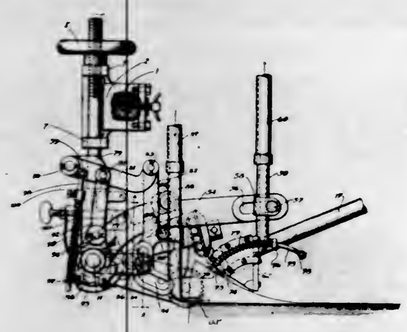
1. A broom comprising an ordinary corn body, an elastic band under tension around the middle portion

thereof and retained thereon by rows of stitching extending through the broom and said elastic band, the



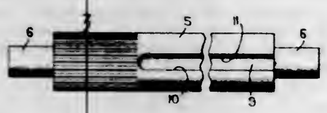
band having a skirt portion extending below the lowest row of stitching, and ending short of the free end of the broom body.

1,475,621. SHEET-SEPARATING MECHANISM. CARL E. CHRISTOPHEL, Pearl River, N. Y., assignor to Dexter Folder Company, Pearl River, N. Y., a Corporation of New York. Filed Dec. 15, 1920. Serial No. 431,020. 64 Claims. (Cl. 271—20.)



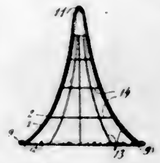
1. In sheet separating mechanism, a sheet gripper movable into and out of sheet gripping position, means for raising a portion of a pile of sheets and continuously maintaining said portion in raised position, and a sheet combing instrumentality periodically cooperating with said raising and maintaining means for displacing the top sheet of the displaced portion of said pile into position to be engaged by said sheet gripper.

1,475,622. CLOTH ROLL FOR LOOMS. HARRY A. DAVIS, Hopedale, Mass. Filed Dec. 29, 1922. Serial No. 609,760. 2 Claims. (Cl. 242—74.)



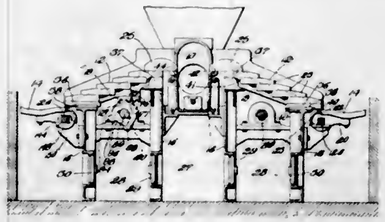
1. A cloth roll for looms having a cylindrical periphery provided with a groove extending longitudinally thereof throughout the cloth-engaging portion and with sharply defined meeting edges between the groove and the roll periphery whereby, after the cloth has been wrapped around the roll and two or more times over the groove the cloth is held against slipping during the further winding of the cloth on the roll.

1,475,623. PHONOGRAPH HORN, ETC. HENRY C. EGERTON, Ridgewood, N. J. Filed Mar. 6, 1919, Serial No. 280,963. Renewed Apr. 30, 1923. 3 Claims. (Cl. 181—27.)



1. The flaring horn adapted for phonograph or similar acoustic purposes and comprising a plurality of layers of fashioned knit fabric generally conforming to the shape of the finished article, the exposed fabric being unitary, cured phenolic condensation cementing material incorporated in the inner layers of fabric to the extent of thirty to sixty percent by weight of the impregnated fabric material and securing the fabric layers together.

1,475,624. UNDERFEED STOKER. JOHN A. FLEMING, Sharon, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Mass., a Corporation of Massachusetts. Filed May 22, 1920. Serial No. 383,446. 24 Claims. (Cl. 110—47.)



2. A grate section comprising an inclined grate bar, a series of horizontal overlapping grate blocks slotted to straddle the bar, interlocking members on the blocks and bar for locking the blocks to the bar, and a stop on each block for holding the underlying block in interlocking relation to the bar.

13. An underfeed stoker having, in combination, a retort, movable and stationary grate sections extending therefrom, each of which comprises a grate bar and a series of grate blocks secured thereon, and tuyère blocks, each of which is secured to the side of the retort and to the end of a stationary grate section and overlies the ends of the adjacent movable sections.

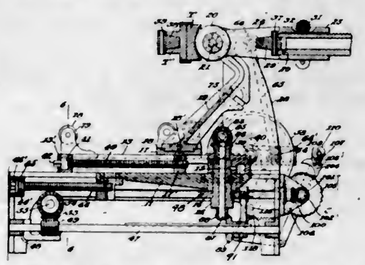
1,475,625. WINDSHIELD CLEANER. FRED G. FOLBERTH and WILLIAM M. FOLBERTH, Cleveland, Ohio, assignors to The Folberth Auto Specialty Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 10, 1922. Serial No. 574,024. 8 Claims. (Cl. 15—253.)

1. In a windshield cleaner, a fluid pressure motor adapted to be operated by differential pressure, a main valve, controlling the flow of fluid through said motor, a cleaner arm operatively connected to the motor, a cleaner element carried by said arm and adapted to be continuously held against a window to be cleaned when the



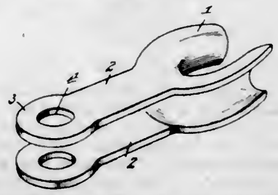
motor is in operation, and means for moving said cleaner arm away from the window and retaining it in spaced position.

1,475,626. LENS-TOOL-GRINDING MACHINE. JOSEPH S. GALESKI, Richmond, Va. Filed Nov. 17, 1920. Serial No. 424,757. 25 Claims. (Cl. 51—33.)



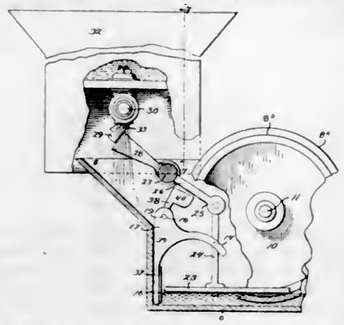
1. A device of the class described, comprising a revoluble grinding wheel, means for revolving said wheel, a work support, and means for obtaining between the work support and the wheel a relative step by step movement through an arcuate path and at the same time a relative back and forth movement through an arcuate path in a plane at right angles to the plane of the step by step movement.

1,475,627. THIMBLE FOR USE IN CONJUNCTION WITH ELECTRIC CONDUCTORS. JOSEPH GATES, East Pepperell, Mass. Filed May 8, 1923. Serial No. 637,502. 1 Claim. (Cl. 24—115.)



A device of the character described comprising a channel-shaped and U-shaped member, a pair of opposed flat legs extending rearwardly from the crest of the U-shaped member and provided with vertically alined openings, a bolt received in the openings and having a transverse opening at one end, and a fastening engaged in the transverse opening.

1,475,628. YARN-PRINTING MACHINE. ALFRED HANSON, Sr., Yonkers, N. Y. Filed Mar. 17, 1920. Serial No. 366,686. 22 Claims. (Cl. 91—12.01).

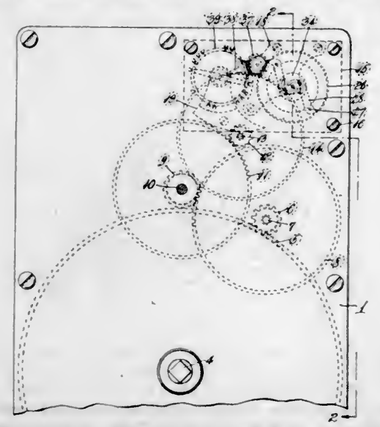


3. In a yarn printing mechanism, the combination with the yarn holder, the reciprocating carriage and the printing wheel, of a color box, a wheel scraper in the box, a loosely mounted vertically removable holder for the scraper, the latter being vertically movable independently of the holder and also bodily movable vertically therewith.

8. In a yarn printing mechanism, the combination with the yarn holder, the reciprocating carriage and the printing wheel, of a color box, baffle devices positioned loosely in the corners of the box and held therein against longitudinal movement.

14. In a yarn printing mechanism, the combination with a yarn holder, of a traveling color box, a printing wheel, means for moving the color box, a wheel scraper in the box, a color holder positioned adjacent the path of travel of the box and adapted to automatically supply color intermittently to said box, and means actuated by the body of fluid in the box to automatically control the level thereof relatively to the wheel.

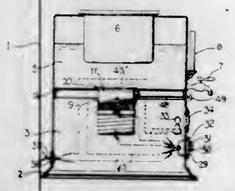
1,475,629. ESCAPEMENT MECHANISM. HAROLD L. HAYNES, Cleveland, Ohio, assignor of one-half to Henry J. Walser, Cleveland, Ohio. Filed Dec. 19, 1919. Serial No. 345,989. 9 Claims. (Cl. 58—48.)



1. Escapement mechanism, comprising a time piece movement provided with a support, said support carrying a secondary spring, an escapement operated by one

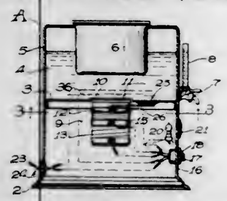
end thereof, an arbor adapted for driving connection with the time piece train for winding said spring, and means rotatable with said arbor and movable relative thereto and operated by said secondary spring for controlling the winding effect thereon.

1,475,630. THERMALLY-CONTROLLED CIRCUIT BREAKER. ALFRED HERZ, Chicago, Ill. Filed Apr. 11, 1921. Serial No. 460,189. 26 Claims. (Cl. 219—38.)



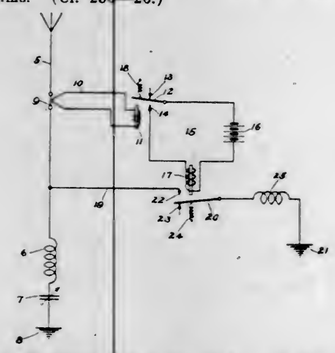
1. In combination, a heating vessel adapted to contain a body of fluid, a heating circuit for heating said vessel, and a circuit breaker disposed between said circuit and said vessel and controlled by conduction of heat through the vessel for rendering said circuit inactive.

1,475,631. THERMALLY-CONTROLLED CIRCUIT BREAKER. CHARLES HERBST, Chicago, Ill., assignor to Alfred Herz, Chicago, Ill. Filed Aug. 15, 1921. Serial No. 492,246. 10 Claims. (Cl. 219—43.)



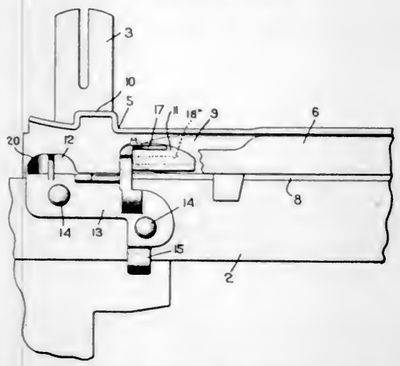
1. In combination, a vessel having a fusible joint, a heating element for said vessel, thermally operable means for rendering said heating element inactive, said thermally operable means being disposed between the heating element and said fusible joint and in contact with the vessel.

1,475,632. PROTECTIVE DEVICE FOR RADIO RECEIVING SYSTEMS. HAROLD B. HERTY, New Orleans, La. Filed Feb. 10, 1922. Serial No. 535,610. 2 Claims. (Cl. 250—20.)



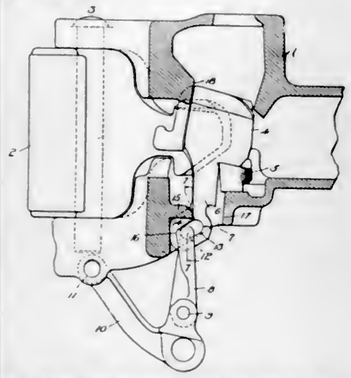
1. A protective device for radio receiving systems including an antenna, a thermal device therein, a relay circuit controlled by said device, and means operated by said relay circuit for short circuiting the element coupling the receiver to the antenna.

1,475,633. COMBINED LOOM SHUTTLE-BOX FRONT GUARD AND GUIDE PLATE. PARKER J. JONES, Chicopee, Mass. Filed Dec. 28, 1922. Serial No. 609,481. 2 Claims. (Cl. 139—183.)



1. In an automatic filling replenishing loom of the type in which the shuttle box at the replenishing end of the lay is provided with a front binder and a cover plate and in which a shuttle feeler has its path of movement across the lay at the mouth of the shuttle box and beneath the cover plate, the combination of a front guard plate secured to the lay, extending well above the middle of the shuttle, presenting a forwardly curved inner end, and extended outwardly to form an inner front wall at the mouth of the shuttle box and a front guide plate secured to the lay, located entirely inwardly of the path of the shuttle feeler, having its inner end curved forwardly and downwardly to a point well forward of and below the path of the shuttle tip, and acting to direct the front wall of the shuttle into engagement with the front guard plate.

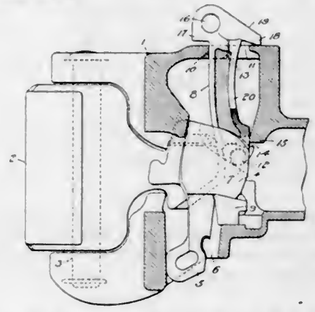
1,475,634. CAR COUPLER. WILLIAM KELSO, Pittsburgh, Pa., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 10, 1922. Serial No. 559,814. 4 Claims. (Cl. 213—146.)



1. In a car coupler, the combination with a coupler head, a knuckle, and a vertically sliding and rearwardly swinging lock for said knuckle, of a lever pivoted to the under side of the coupler head, and a lock-actuating link pivotally connected to said lever and slidably and rotatably connected to said lock, said lock being provided with a depending leg having an inclined slot therein, said coupler head having a stop portion extending behind said leg to limit rearward movement thereof when the lock is in locked position, said link being

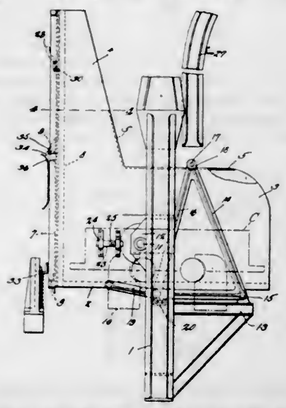
formed at its upper end with a pin extending into and movable in the direction of length of said slot and also being provided at its upper end with a forwardly and downwardly inclined shoulder, and said coupler head being provided with a shoulder extending over said inclined shoulder in all positions of said link when said depending leg is in its forward position.

1,475,635. CAR COUPLER. WILLIAM KELSO, Pittsburgh, Pa., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 31, 1923. Serial No. 616,124. 6 Claims. (Cl. 213—146.)



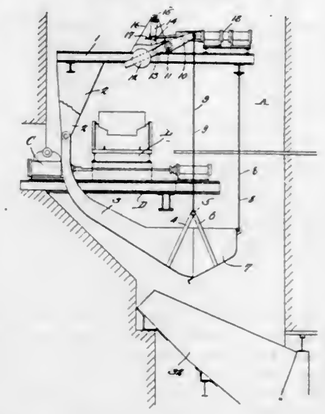
1. In a car coupler, the combination with a coupler head, of a knuckle pivotally mounted thereon, an upwardly movable lock for said knuckle whose upper end stands below the upper wall of said head, and a lock lifter for actuating said lock, said lock being formed with an upwardly and rearwardly opening slot adapted to receive the lower end of said lifter, said lock and said lifter being provided with cooperating means whereby they are movably connected, said lifter being provided with a shoulder adapted to project outwardly beyond said lock in a substantially horizontal plane when the parts are in locked position, and said head being provided with a substantially horizontal face adapted to cooperate with said shoulder to prevent accidental unlocking of said lock.

1,475,636. OVERTURNING CAGE. DANIEL F. LEPLEY, Connellsville, Pa. Filed Nov. 7, 1921. Serial No. 513,372. 11 Claims. (Cl. 214—122.)



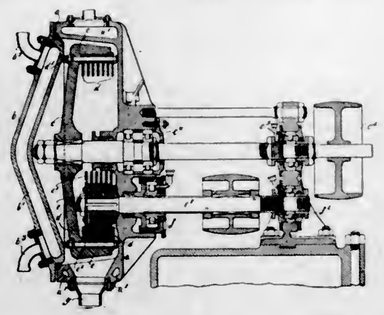
1. The combination with a bail, of a cage tiltably mounted therein and having an integral delivery spout normally extending upwardly therefrom, means for holding the cage against tilting movement, and cooperating fixed and movable means for positively shifting the holding means to release the cage and overturn it within the bail to bring the spout to outwardly and downwardly inclined position.

1,475,637. WEIGHING AND LOADING APPARATUS FOR HOIST SKIPS. DANIEL F. LEPLEY, Connellsville, Pa. Filed Aug. 31, 1922. Serial No. 585,542. 15 Claims. (Cl. 265—27.)



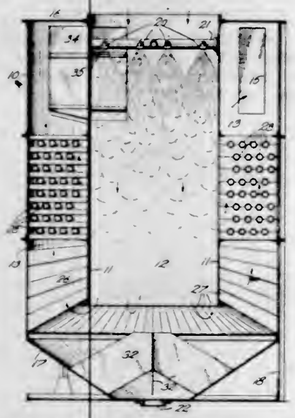
1. The combination with the platform of weighing scales, of movably supported hingedly connected members suspended from the platform and normally closed together to form a weigh pan, counterbalanced means connected to the members of the weigh pan for holding them in normal position, and fluid cushioned pressure operated means for shifting the counterbalanced means out of normal position to release the weigh pan from its normal position.

1,475,638. MIXING APPARATUS. ARCHIBALD MONTGOMERY LOW, London, England, assignor to The Low Engineering Company Limited, London, England, a Corporation of Great Britain. Filed Jan. 13, 1923. Serial No. 612,503. 4 Claims. (Cl. 259—104.)



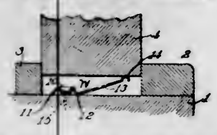
1. A mixing apparatus for the purpose specified comprising a stationary casing, and two relatively rotatable drums mounted in said casing one within the other and provided with interengaging beaters cooperating without contact, the beaters of each drum being spaced longitudinally with respect to the axes of rotation of the drums.

1,475,639. AIR WASHING AND CONDITIONING APPARATUS. JOEL IRVINE LYLE and LEO L. LEWIS, Plainfield, N. J., assignors to Carrier Engineering Corporation, New York, N. Y. Filed Feb. 14, 1920. Serial No. 358,641. 11 Claims. (Cl. 183—23.)



1. In an air washer or the like, the combination of chambers which are arranged one within the other and communicate at one end, means at the other ends of said chambers for admitting air to one chamber and discharging it from the other chamber, the air inlet and discharge ends of said chambers being adjacent each other, means for discharging liquid in a fine spray into the air in one of said chambers, said spray means being constructed and arranged to fill said spray chamber throughout its cross section with the spray, and said spray chamber being otherwise substantially unobstructed, and an eliminator for removing the free water from the air, said eliminator comprising spaced plates arranged in an annular series in the inlet end of said outer chamber and forming intervening zig-zag passages through which the air from said spray chamber flows.

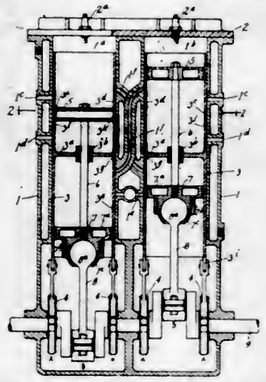
1,475,640. WEATHER STRIP. LOUIS A. MACKLANBURG, Oklahoma, Okla. Filed Apr. 29, 1922. Serial No. 557,253. 5 Claims. (Cl. 20—69.)



1. A weather strip of thin, springy material having a convexed zone for the reception of means for securing said strip in operative position, the thickness of the material in said zone being so related to the elasticity thereof that only the portion immediately adjacent the securing means is depressed when the latter is forced to operative position.

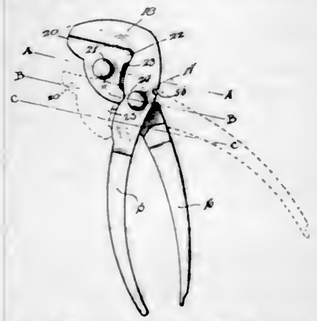
1,475,641. INTERNAL-COMBUSTION ENGINE. GEORGE A. MALETTE, San Diego, Calif. Filed June 21, 1921. Serial No. 479,407. 4 Claims. (Cl. 123—59.)

4. A gas engine, including a casing with twin cylinders therein parallel with each other, a sleeve reciprocably mounted in each of said cylinders provided with a partition intermediate its ends, a tandem piston reciprocably mounted on opposite sides of said partition, whereby a combustion chamber is provided between one piston and the cylinder head and a fresh air inlet chamber between said piston and said partitions and a fuel compression chamber between said partition and the other piston, and means in connection with such sleeves and said casing for conducting fuel from said fuel compression chamber to the combustion chamber in the other cylinder and for admitting fresh air from the outside to the air inlet chamber, a main shaft, means in connection with said



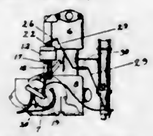
main shaft and said sleeve for reciprocating said sleeve with the revolution of said shaft and a connecting rod connecting said main shaft with one of the pistons by ball and socket connections.

1,475,642. PARALLEL-JAW PLIERS WITH ADJUSTABLE GAP. HENRY H. MATHIS, New Haven, Conn. Filed Aug. 23, 1922. Serial No. 583,830. 10 Claims. (Cl. 294—46.)



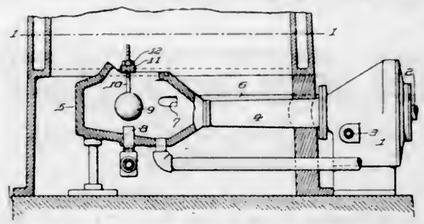
1. A pair of pliers comprising a shank with a fixed jaw positioned substantially at right-angles thereto, a second shank pivoted to the first shank and provided with an arm having an aperture, a movable jaw journaled in said aperture and interengaging means between said first shank and said movable jaw compelling the gripping faces of said jaws to remain parallel during the operation of the pliers.

1,475,643. TIMER OILER. GORDON W. MEAD, Sioux City, Iowa. Filed Mar. 6, 1923. Serial No. 623,101. 4 Claims. (Cl. 123—146.5.)



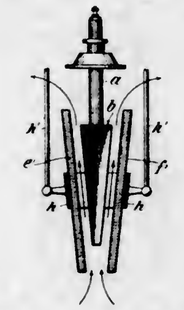
1. The combination with a timer including its oscillating casing and controlling means of a valved lubricant container communicating with the casing, and an operative connection between the valve and said controlling means.

1,475,644. IGNITING DEVICE FOR FUEL BURNERS. STEPHEN L. MERSHON, Llanerch, Pa. Filed Jan. 17, 1923. Serial No. 613,118. 4 Claims. (Cl. 158—85.)



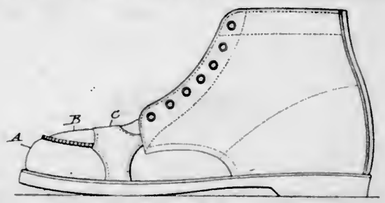
1. In a burner for atomized fuel comprising a pot or burner, means to project an atomized fuel into said burner and a pilot light in said burner, the combination therewith of a body of material which will not melt or disintegrate under the heat developed by the combustion of said atomized fuel, mounted within said burner and maintained relatively hot by said pilot light whenever atomized fuel is not being burned in said burner.

1,475,645. ELECTRIC WATER HEATER. OTTO MEYER-KELLER, Lucerne, Switzerland. Filed Feb. 21, 1922. Serial No. 538,307. 2 Claims. (Cl. 219—39.)



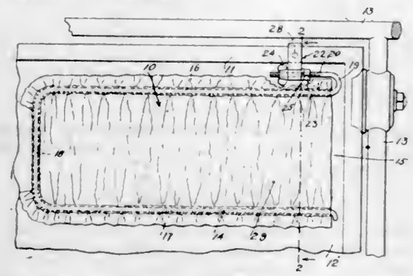
1. In an electric water heater, a central wedge shaped electrode substantially rectangular in cross section, a pair of rectangular shielding electrodes arranged upon the opposite sides of said electrode and parallel thereto, and means connected to said shielding electrodes for collectively adjusting the same with respect to the opposite sides of said central electrode.

1,475,646. MOCCASIN. PAUL G. MEYER, Wilton, Me., assignor to G. H. Bass & Company, Wilton, Me., a Corporation of Maine. Filed Mar. 2, 1922. Serial No. 540,511. 1 Claim. (Cl. 36—11.)



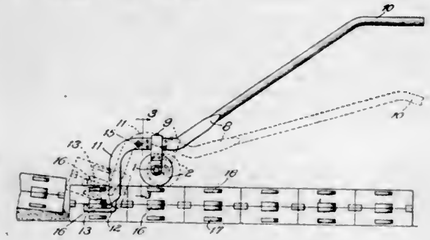
In a moccasin, a front part or vamp having its edges upturned around the toe and on opposite sides running back to the ball of the foot, a rearwardly extending toepiece closing the open space between said upturned edges over the toes and ball of the foot and secured to said upturned edges by seams which extend rearwardly over the ball of the foot at either side from the toe portion to the quarters, and a reenforcing and strengthening strap extending over the ball of the foot across the vamp and toe-piece so as to overlie said seams, said strap being secured to said vamp and toe-piece by seams which extend along its edges across the vamp and toe-piece to the underside or sole portions of the shoe, thus strengthening and reenforcing said seams; the ends of the strap being secured to the sole portions of the shoe, substantially as described.

1,475,647. ADJUSTABLE VISOR FOR VEHICLE WINDSHIELDS. HENRY D. NATERMAN, Los Angeles, Calif. Filed Nov. 12, 1921. Serial No. 514,601. 2 Claims. (Cl. 296—95.)



2. A wind shield visor, comprising a U shaped frame formed of spring wire, a pocketed fabric curtain adapted to be detachably secured to said frame, the resiliency of said frame maintaining said curtain in stretched relation thereon, a clip provided with a bearing adapted to be adjustably secured to the wind shield of a vehicle, and means for frictionally mounting one end of said spring frame in the bearing formed on said clip, whereby the frame may be tilted and held in a plurality of adjusted positions.

1,475,648. SHAKING-OUT DEVICE. ALBERT NELSON, Chicago, Ill., assignor to The American Brake Shoe & Foundry Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 27, 1921. Serial No. 496,040. 10 Claims. (Cl. 22—94.)

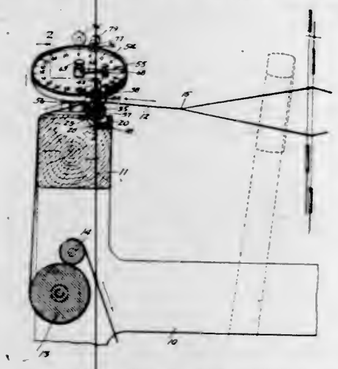


1. A device of the class described, comprising a rolling support adapted to move along the tops of a series of flasks, a lever mounted on said support and having a long arm to serve as a handle and a short arm having flask engaging means extending below said support to engage a flask next to that on which the support rests.

1,475,649. CLOTH MEASURING AND REGISTERING DEVICE. WILLIAM G. NORTHUP, Jr., Minneapolis, Minn. Filed May 15, 1922. Serial No. 561,077. 7 Claims. (Cl. 33—131.)

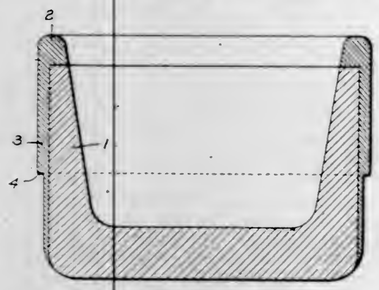
1. A cloth measuring and registering device adapted for attachment to a loom, comprising a wheel having

teeth adapted to penetrate a web of cloth traveling through the loom, means for pressing the cloth down



upon the surface of the wheel and holding it in engagement with said teeth, and a measuring indicator connected with said wheel.

1,475,650. GLASS-MELTING POT. FRANK OSBORNE, Ford City, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed May 25, 1921. Serial No. 472,476. 5 Claims. (Cl. 49—60.)



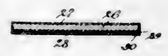
5. An open top plate glass melting pot provided with an annular shoulder and having a body portion of pot clay, and a rim and an outer shell for the body portion of a clay which is more refractory than that of the body portion, such shell extending down from the rim to a point below the shoulder of the pot.

1,475,651. GRATE FOR FURNACES AND BOILERS. JOSEPH W. PIPER, Lowell, Mass. Filed Feb. 1, 1922. Serial No. 533,463. 2 Claims. (Cl. 126—161.)



1. In combination with a cylindrical fire-chamber having vertical transverse dividing means, separate superimposed gratings, two sets of grate bars, one set of which is pivoted to the bottom of the upper grate-ring and the other set of which is pivoted to the top of the lower grate-ring and a suitable housing for said grate-rings having ports, through which said grate bars project, each set of grate bars being arranged under a separate division of said fire-chamber.

1,475,652. ADVERTISING DEVICE FOR POKER CHIPS. RAYMOND P. POLIZZI, Brooklyn, N. Y. Filed July 10, 1922. Serial No. 573,820. 1 Claim. (Cl. 40—2.)



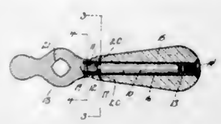
An advertising device in the form of a game piece comprising a disk having advertising matter arranged centrally thereon, a transparent section receiving said disk and covering the advertising matter, a marginal wall formed on the transparent section for embracing the periphery of the disk, a second transparent section engaging the opposite side of the disk, an annular retaining flange formed on the marginal wall and being split at diametrically opposite points and said flange being adapted to detachably retain the first mentioned section in contacting engagement with the disk as and for the purpose specified.

1,475,653. KNITTED CAP AND METHOD OF MAKING THE SAME. SAMUEL ROSENBERG, Milwaukee, Wis., assignor to Reliable Knitting Works, Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 1, 1920. Serial No. 421,198. 7 Claims. (Cl. 2—106.)



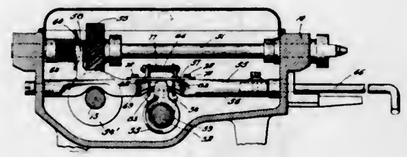
1. The method of making knitted caps consisting in first knitting a tubular fabric, then passing a gathering string thru the tube, folding the tube about a transverse median line, stitching the ends of the tube together to form a shorter double walled tube and then drawing up the gathering string at one end of said double walled tube and securing the same in gathered position.

1,475,654. LEVER HANDLE FOR LAVATORY FAUCETS AND THE LIKE. PATRICK J. SHEA, Waterbury, Conn., assignor to Chase Companies, Inc., Waterbury, Conn., a Corporation. Filed Mar. 16, 1923. Serial No. 625,477. 2 Claims. (Cl. 251—150.)



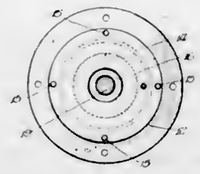
1. In a lever-handle for lavatory faucets and the like, the combination with a handle-body formed at one end with a bore, of a handle-stem provided with a roughened head driven into the said bore, and with an anchoring-groove into which portions of the metal of the body are upset, and a handle-grip mounted upon the stem.

1,475,655. UNIVERSAL WINDING MACHINE. CHARLES H. SMITH, Pawtucket, and ALFRED E. HAMPSON, Lonsdale, R. I. Filed Feb. 5, 1923. Serial No. 616,915. 4 Claims. (Cl. 242—31.)



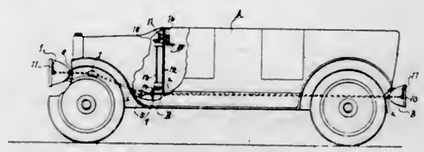
1. In a universal winding machine, the combination with the rock-shaft, and traverse bar lever, of a lug on the lever, a clutch lever provided with an offset adapted to receive the lug, ears suported on the clutch lever, a bar in the ears, and depending fingers on the rod at the side of the lug.

1,475,656. MEANS FOR PREVENTING THE ESCAPE OF INCLOSED GAS. MARCUS C. STEESE, Duluth, Minn. Filed Feb. 16, 1920. Serial No. 358,966. 6 Claims. (Cl. 286—24.)



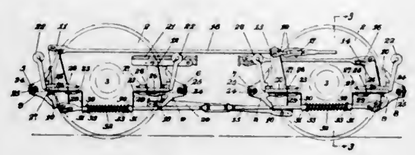
1. A gas producer wall provided with a poker rod opening, and means to prevent the escape of gases around the poker rod, said means comprising a plurality of sealing members having openings adapted to register in alignment with the poker rod opening and of substantially the same diameter as that of the poker rod, the walls of the respective openings being provided with seats for the reception of viscous material formed by the condensation of vapors emitted from the gas.

1,475,657. DIRECTION INDICATOR FOR AUTOMOBILES. CARL S. STEVENSON, Binghamton, N. Y. Filed Mar. 11, 1920. Serial No. 365,059. 2 Claims. (Cl. 116—47.)



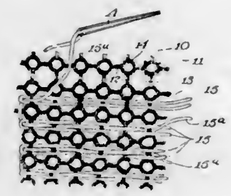
1. In a direction indicator for vehicles, the combination with a vehicle having the customary headlights and a rear light disposed in different horizontal planes, of a shaft extending longitudinally of the vehicle at one side thereof, said shaft extending to the rear light, flexible shafting extending from the longitudinal shaft to the headlight, direction indicating means on the front and rear lights and means for operating the shafts and the signal means.

1,475,658. BRAKE SUPPORTING AND RELEASING MECHANISM. JOHN F. STREIB, Avalon, Pa., assignor to Pressed Steel Car Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Jan. 13, 1922. Serial No. 528,895. 11 Claims. (Cl. 188—205.)



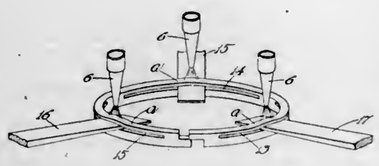
7. In a brake mechanism, a power transmitting brake rod, a pair of brake beams having shoes adapted to engage the opposite sides of a pair of wheels, a member secured to each of said beams adapted to engage said rod, and means on said rod adapted to engage said members and move said beams in opposite directions to released positions.

1,475,659. ORNAMENTAL HAND-WOVEN FABRIC AND METHOD OF MAKING THE SAME. FREDERICK E. STROHMEIER, Ashland, Pa. Filed Dec. 4, 1922. Serial No. 604,776. 5 Claims. (Cl. 139—383.)



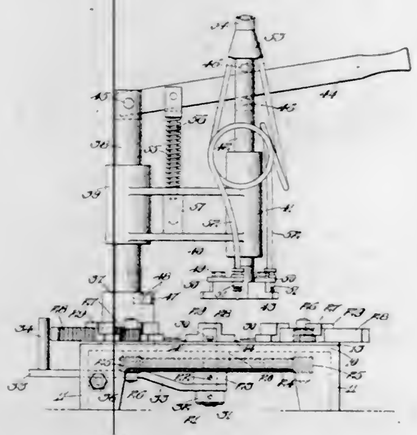
1. A method of forming a fabric which consists in using a relatively coarse open mesh net as a foundation, said net having longitudinal and transverse strands and open knots at the intersection of the longitudinal and transverse strands, and weaving strands of yarn in and out through the meshes of the foundation net until said meshes have been filled with yarn whereby to form a complete fabric wherein the knots constitute an integral part of the design.

1,475,660. PROCESS OF MAKING PISTON RINGS. GEORGE A. TAYLOR, Boston, Mass. Filed Sept. 29, 1921. Serial No. 504,166. 9 Claims. (Cl. 29—156.6.)



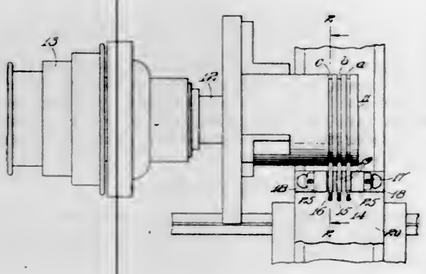
1. The process of making piston rings which consists in slitting the ring circumferentially and permanently elongating the metal adjacent one side of the slit.

1,475,661. APPARATUS FOR FORMING PISTON RINGS. GEORGE A. TAYLOR, Boston, Mass. Filed Oct. 31, 1921. Serial No. 511,706. 27 Claims. (Cl. 29—1.)



1. An apparatus for forming piston rings comprising forming means, means for supporting a piston ring in fixed position for the operation of said forming means, and a circular series of stops for locating said ring with reference to said forming means.

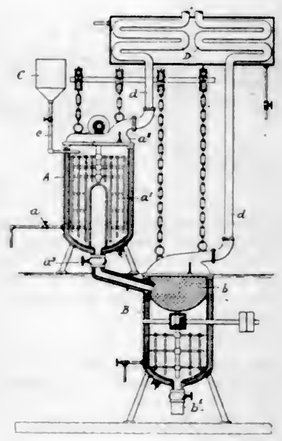
1,475,662. METHOD OF FINISHING PISTON-RING GROOVES. GEORGE A. TAYLOR, Boston, Mass. Filed June 21, 1922. Serial No. 570,020. 1 Claim. (Cl. 29—156.5.)



The method of enlarging, truing and finishing the ring slot in a piston or the like article, which consists in passing through the slot a disk-shaped roller having a sharp edge, the width of the roller being slightly greater than the original width of the slots.

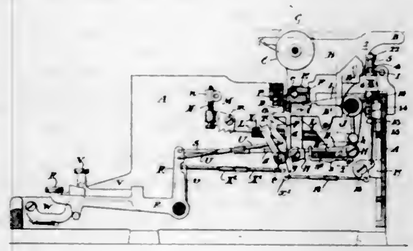
1,475,663. MANUFACTURE OF SOAP. JICKNAM TSENG, London, England. Filed Apr. 6, 1921. Serial No. 459,100. 8 Claims. (Cl. 87—16.)

1. A process of making transparent soap in which ninety parts of oils and fats are mixed with ten parts of glycerine and the mixture saponified at about 80° C., the hard soap being dissolved by alcohol during a prolonged heating and stirring of about 12 hours at a



temperature of 80° C., to 85° C., during which time the alcoholic vapours are condensed and returned, subsequent filtration taking place at about 75° C.

1,475,664. TYPEWRITING MACHINE. ANTHONY UTZ, Hartford, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 1, 1922. Serial No. 604,251. 24 Claims. (Cl. 197—79.)



1. In a typewriting machine, a main frame, a platen carriage shiftable from one position to a raised position, and a support on the main frame at the rear of the carriage effective only when said carriage is shifted from normal position for holding it in raised position.

1,475,665. PISTON-RING REMOVER. ARTHUR J. WAKEFIELD, Miami, Fla. Filed Oct. 21, 1921. Serial No. 509,334. 1 Claim. (Cl. 29—86.4.)

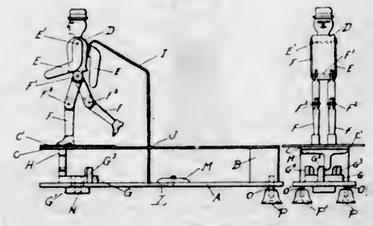
In a piston ring remover of the class described; a pair of pivoted plier members; handle grips provided at one end of each of said plier members; wedge shaped jaws provided at the other ends; each of said jaws provided with one rectangular and one triangular prong; said prongs so located on the jaws that unlike prongs are in juxtaposition when the jaws are closed; and the jaws made of such

width that when the prongs are inserted in the angular cut in a piston ring and given a slight rotary motion



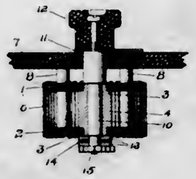
the angular ends of the piston ring will enter between the prongs on said jaws, substantially as shown and described.

1,475,666. MECHANICAL DANCING FIGURE. FRANK WATSON, Lynn, Mass. Filed Sept. 14, 1921. Serial No. 500,533. 5 Claims. (Cl. 46—40.)



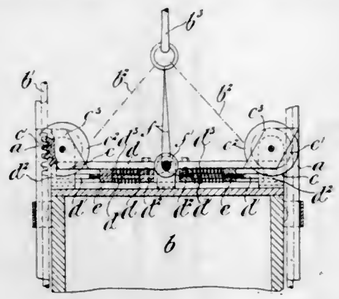
4. A mechanical dancing figure comprising a vibratory dancing stage, a jointed dancing figure suspended over the stage, a vertically depending vibrator secured to the underside of the said stage, and a horizontally rotatable cam positioned below the stage and presenting a series of vertical projections disposed to contact alternately with the said depending vibrator during rotation of the cam, said vibrator and the said projections being provided with co-acting cam faces operating to vibrate the stage with a gradual upward movement and a precipitous descent of the latter.

1,475,667. RHEOSTAT. WILLIAM STUART WEBSTER, Brighton, Mass. Filed Nov. 20, 1920. Serial No. 425,371. 11 Claims. (Cl. 219—48.)



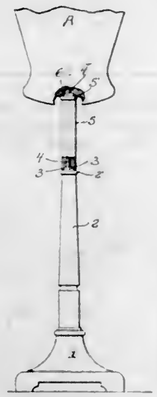
1. A rheostat including spaced members, resistance wire laced between but outside the peripheries of said members, and means for holding said resistance wire in place.

1,475,668. PIT-CAGE ARRESTER. MORGAN WILLIAMS, Ogmore Vale, near Bridgend, Wales. Filed Nov. 20, 1922. Serial No. 602,182. 3 Claims. (Cl. 187—82.)



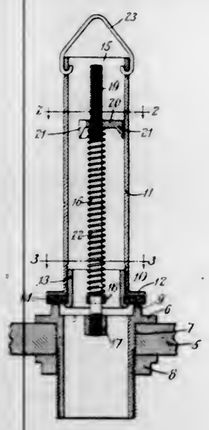
1. A pit-cage arrester of the class described including in combination with the winding cable, a pinion provided with an angular locking plate, a slidable locking bar arraigned at one side of the pinion, springs for shifting said bar toward the pinion, and a connection between said bar and the winding cable operable upon the break of the winding cable to release said locking bar to permit the springs to shift it into locking engagement with the pinion.

1,475,669. COMBINATION DISPLAY STAND. ISIDOR WILLING, Milwaukee, Wis. Filed Aug. 10, 1921. Serial No. 491,155. 1 Claim. (Cl. 211—24.)



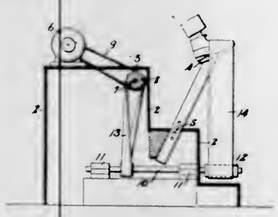
As a new article of manufacture, an adjustable display stand comprising a primary base, a column rigidly supported thereby and having a squared upper end, a rod projecting from the upper end of said column, a removable extension column unit conforming to the design of said first mentioned column and having a hole therethrough adapted to receive said rod with said rod projecting a material distance beyond the upper end of said extension column unit, the lower end of said extension column unit having a squared recess adapted to receive the squared top of said first mentioned column, and having a squared upper portion, and a merchandise display head having a squared recess adapted to cooperate with either of the squared ends of said first mentioned column or said mentioned extension column and having a hole therethrough adapted to receive and house the projecting rod.

1,475,670. TANK VALVE. JULIUS YORKS, Boston, Mass. Filed Apr. 13, 1921. Serial No. 461,116. 3 Claims. (Cl. 4—5.)



1. A tank valve having, in combination, a bushing embodying therein an annular valve seat, a movable valve member adapted to rest upon said annular valve seat, a rod rigidly secured to said bushing and extending upwardly through said movable valve member adapted to guide said movable valve member at the lower end thereof, a spider adjustably mounted upon said rod and adapted to guide said movable valve member adjacent to the upper end thereof and a spring surrounding said rod adapted to positively seat said movable valve member upon said annular valve seat.

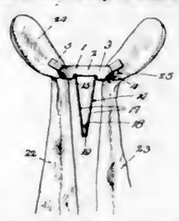
1,475,671. BOOT-POLISHING MACHINE. GASPERO ZARRELLI, Vancouver, British Columbia, Canada. Filed Jan. 3, 1923. Serial No. 610,479. 1 Claim. (Cl. 15—97.)



A boot polishing means, comprising, the combination with a suitable stand having foot-rests, of a shaft rotatably mounted in the stand immediately under each foot-rest, a pulley on the outwardly projecting end of the shaft, an endless polishing band adapted to pass around a boot on the foot-rest and around the pulley on the shaft beneath, and means for rotating each shaft.

1,475,672. NECKTIE. ELWIN P. ADAMS, Jacksonville, Fla. Filed Mar. 15, 1922. Serial No. 543,950. 5 Claims. (Cl. 2—84.)

1. An article of neckwear comprising a supporting means including a body member, lateral wings extending therefrom, and a knot form member depending from the body member, and tie sections having ends applied to the wings, the sections being designed to be tied and knotted about the body member and knot form



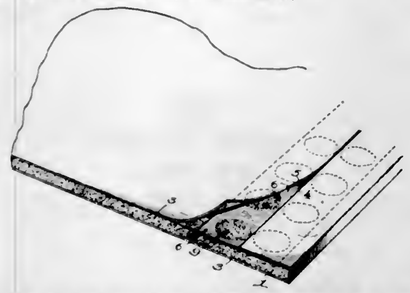
member, the said knot form member being provided with a lower terminal hook to engage and support the formed knot and prevent displacement thereof.

1,475,673. LATHER BRUSH. ANDREW ALBRIGHT, Jr., Maplewood, N. J. Filed Apr. 26, 1922. Serial No. 556,612. 2 Claims. (Cl. 15—194.)



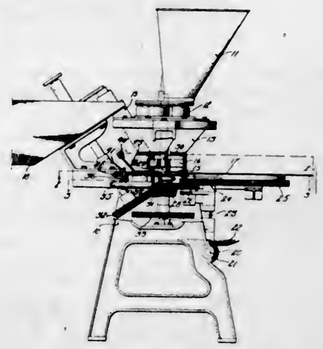
1. A lather brush comprising a handle having a threaded cap secured within its lower end, and a bunch of bristles or the like having a metal band tightly encompassing its knot end and a metal cap mounted over the knot and rigidly secured to said band, said metal cap having a threaded dome section adapted to screw into said handle cap, an annular outwardly extending flange at the base of said dome section forming a shoulder against which the upper edges of said band abut and a depending flange or skirt portion enclosing said band and formed inwardly to engage the lower edge thereof, thereby rigidly securing the cap in position on the knot end of the bunch.

1,475,674. PLASTER BOARD. LOUIS E. ARMSTRONG, Fort Dodge, Iowa. Filed May 24, 1922. Serial No. 563,217. 4 Claims. (Cl. 154—45.9.)



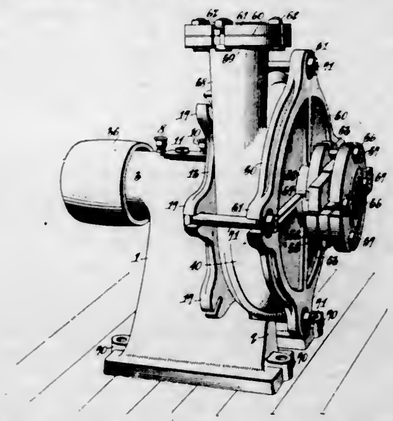
1. In a plasterboard or the like a sheet of body material, a sheet of fibrous covering material therefor, folded about one edge of the body material and having its margin adjacent each edge, a second covering sheet overlying the face of the body material and having its margin abutting the margin of the first sheet, a perforated strip of fibrous material underlying the adjacent margins to seal the joint therebetween.

1,475,675. CAN-FILLING MACHINE. CHARLES H. AYARS, Salem, N. J., assignor to Ayars Machine Company, Salem, N. J. Filed Apr. 1, 1922. Serial No. 548,562. 6 Claims. (Cl. 226—96.)



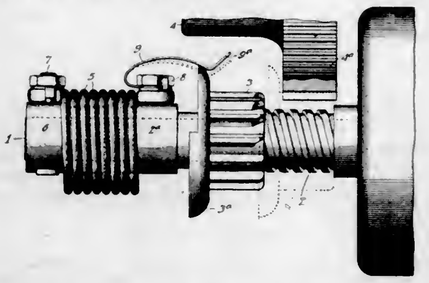
1. In a can filling machine, a shaft adapted to actuate feed mechanism; a gear fixed to the shaft; a sleeve on the shaft carrying can positioning mechanism; a gear on the sleeve adapted to be engaged with or disengaged from the gear fixed to the shaft; means for engaging or disengaging the gears, and means for driving the sleeve gear whether engaged or disengaged.

1,475,676. CENTRIFUGAL PUMP. HARRY LEWIS BELL and HARRY GLEN COULSON, Wallace, Idaho, assignors to Coeur d'Alene Hardware & Foundry Co., Incorporated, Wallace, Idaho. Filed Oct. 24, 1921. Serial No. 509,942. 20 Claims. (Cl. 103—103.)



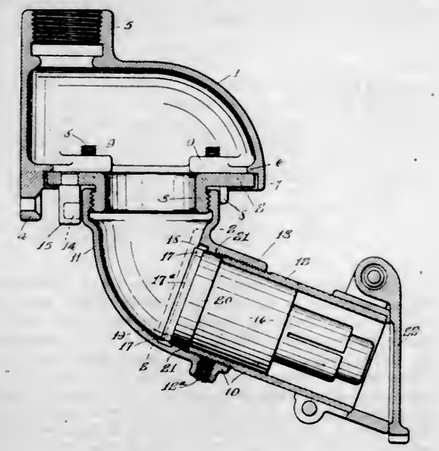
1. In centrifugal pumps, a base having a bearing housing and a head, a shaft journalled in bearings in said housing and projecting through an opening in said head, a gland packing carried by said head, a suction head having a water inlet, a casing interposed between said heads and having a water chamber and a discharge throat, gland and suction wear plates held between said heads and casing and spaced apart to leave an impeller chamber in communication with said water chamber and said water inlet, an impeller on said shaft within said impeller chamber, and means to hold said heads, said casing, and said wear plates in position.

1,475,677. ENGINE STARTER. VINCENT BENDIX, Chicago, Ill. Filed Oct. 12, 1916. Serial No. 125,292. 13 Claims. (Cl. 74—7.)



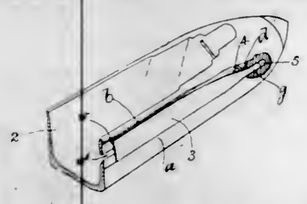
1. In a device of the character described, the combination of a rotatable member, a driving member mounted thereon for rotary movement therewith and longitudinal movement thereof, and means mounted on such rotatable member and acting on said driving member to prevent creeping movement of the latter.

1,475,678. PLUG RECEPTACLE. CARL H. BISSELL, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed June 24, 1918. Serial No. 241,530. 7 Claims. (Cl. 247—15.)



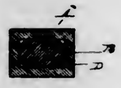
1. An electric receptacle comprising a conduit outlet box for service wires, the box having an opening in one side, a cover for the opening having a nipple on its outer side, and a housing having a portion swivelled to said cover on said nipple, for receiving the service wires passing through the opening from the box, an electric receptacle located in the housing for connecting to the service wires through the swivel joint, and means located outside of the housing and the nipple for attaching the cover to the box, substantially as and for the purpose described.

1,475,679. LOOM SHUTTLE. JAMES WILLIAM BOOTH and THOMAS CRAVEN CORLASS, Keighley, England. Filed Apr. 5, 1921. Serial No. 458,645. 5 Claims. (Cl. 139—212.)



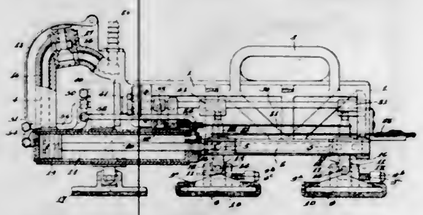
4. A loom shuttle, comprising a body part having a guide eye therethrough, a metal plate mounted on the body to form a groove between it and the front wall of the body, said plate being shaped so that its outer ends enter into openings in the body of the shuttle, and means for resiliently retaining said plate in its position upon the body part.

1,475,680. PISTON RING. STEPHEN F. BORKEY, Detroit, Mich. Filed Feb. 6, 1922. Serial No. 534,394. 3 Claims. (Cl. 74—109.)



1. A piston ring comprising a seamless metallic tubular sealing member, and a relatively hard spring steel member internally reinforcing said sealing member and outwardly stressing the same.

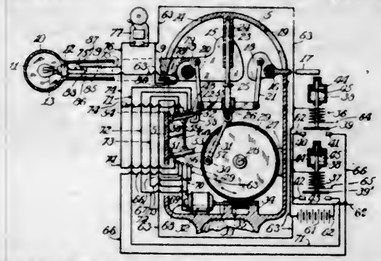
1,475,681. SURFACE-FINISHING MACHINE. SPENCER K. BROWN, Syracuse, N. Y. Filed Feb. 5, 1918. Serial No. 215,492. 7 Claims. (Cl. 51—170.)



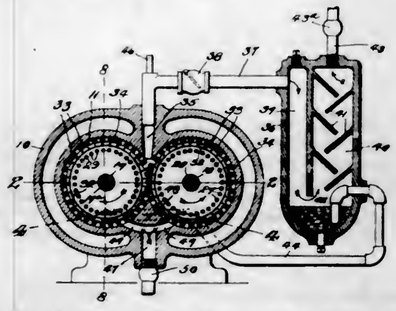
1. A surface finishing machine comprising a frame, carriages reciprocally movable in parallel paths arranged side by side, abrading members pivotally connected to the carriages, means carried by the frame for reciprocating the carriages and operating to move one in one direction while the other is moving in the opposite direction, and means connecting the carriages for holding the same in juxtaposition to each other, the latter means comprising a pair of pulleys supported by the frame, and a belt secured to the carriages and running over the pulleys, substantially as and for the purpose described.

1,475,682. RAILWAY-CROSSING GATE AND SIGNAL. HOWARD C. CARMICHAEL, Indianapolis, Ind. Filed Sept. 10, 1921. Serial No. 499,793. 8 Claims. (Cl. 246—127.)

1. A railway crossing gate including a movably supported gate, an electrical power device provided with mechanical connections to operate the gate, an electrical circuit for the power device provided with a current-reversing switch, a trip device carried synchronously with the mechanical connections to operate the switch synchronously with the gate, two relays to close or open the circuit on opposite sides respectively of the switch, and a plurality of circuit closers for the relays.

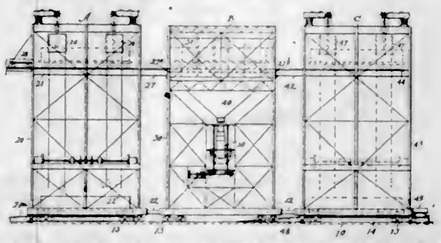


1,475,683. ROTARY AIR COMPRESSOR. JOHN O. CARREY, St. Louis, Mo., assignor to Carrey Rotary Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 2, 1919. Serial No. 314,844. 11 Claims. (Cl. 230—30.)



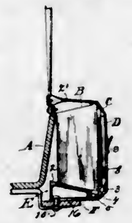
1. In a fluid compressor, a housing, a pair of rotors arranged for operation therein, which rotors have interengaging peripheral portions, means for delivering air into the rotor chambers at points below the axes of the rotors, there being a compressed air outlet leading from a central point between the rotor chambers, packing plates yieldingly arranged in surface contact against said rotors at one end thereof and in overlapping sealing engagement with each other, and means for delivering fluid pressure from the high pressure side of the compressor to the rotor chambers behind said plates.

1,475,684. MATERIAL-HANDLING APPARATUS. ARTHUR F. CASE, Cleveland, Ohio, assignor to The Weilman-Seaver-Morgan Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 12, 1920. Serial No. 373,130. 21 Claims. (Cl. 214—1.)



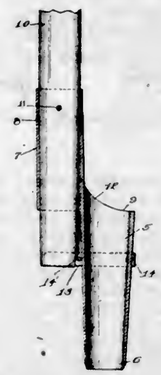
1. A car dumping apparatus comprising a traveling structure having an elevated cradle adapted to receive and to turn loaded cars to dump the contents therefrom, in combination with a car elevating mechanism comprising a movable platform adapted to receive a loaded car from a track and to elevate the same to a point such that it may be moved from the platform onto the dumping cradle.

1,475,685. BOAT CARRIER FOR AUTOMOBILES. GEORGE M. CLARK, Battle Creek, Mich. Filed Feb. 25, 1920. Serial No. 361,326. 3 Claims. (Cl. 224—29.)



1. In a device of the class set forth comprising detachable brackets mounted on the footboard of an automobile, said brackets having slotted portions lying transverse of said footboard and formed with inclined portions trending upwardly from the outer edge of said footboard, eyelets formed in the lower outer ends of said brackets, the inclined portions of said brackets adapted to receive the side of a boat with its gunwale toward said eyelets, and straps or equivalent means fastened through said eyelets and attached at their opposite ends to the windshield frame and side top supports of an automobile, and bolts extending through said foot-board and through said slots in said brackets and nuts run on said bolts whereby said brackets may be adjustably secured to said footboard, for the purpose set forth and described.

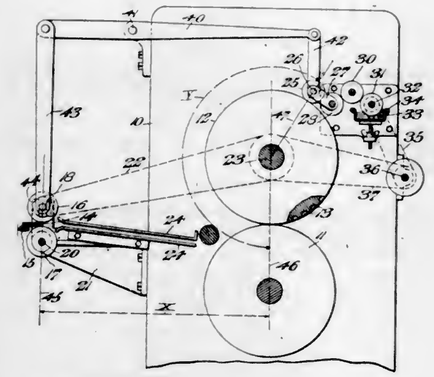
1,475,686. PLANT DIGGER. SAMUEL C. CLINKSCALE. Bonita, Kans. Filed Aug. 12, 1922. Serial No. 581,477. 2 Claims. (Cl. 55—18.)



1. A plant digger comprising a tubular body member, one end portion of said body member being longitudinally tapered and adapted to penetrate the ground, the opposite end portion of the body member having its walls extended outwardly and toward each other in offset relation to the first mentioned end portion of the body member to provide a socket for the reception of the handle.

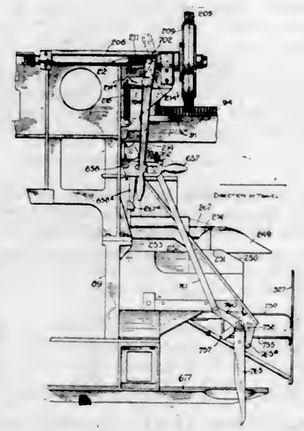
2. A plant digger comprising a tubular body member having one end portion thereof longitudinally tapered for the reception of a plant, the opposite end portion of the body member being substantially offset and formed into a socket, a handle disposed within said socket, the end of said handle projecting beyond the lower end of the socket in parallel relation to the tapered end portion of the body member, means for securing the handle within the socket, and a clamp carried by the tapered portion of the body member and arranged to engage the end of the handle to brace the socket member with respect to the tapered body portion.

1,475,687. COATING OR INKING DEVICE. FREEMAN A. COBB, Wilmington, Del., assignor, by mesne assignments, to National Vulcanized Fibre Co., Wilmington, Del., a Corporation of Delaware. Filed Feb. 15, 1922. Serial No. 536,681. 8 Claims. (Cl. 101—233.)



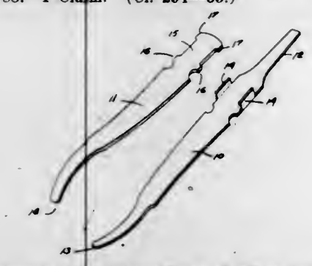
1. In a coating machine, the combination of a supply of coating, a roll for applying said coating to a length of material, means for uniformly distributing said coating upon said roll, a device for feeding said material into contact with said roll, and means operated by said feeding device for controlling said distributing means.

1,475,688. WINDER. HOWARD D. COLMAN, Rockford, Ill., assignor, by mesne assignments, to Edgar S. Nethercut, Evanston, Ill. Filed Dec. 4, 1919. Serial No. 342,407. Renewed May 7, 1923. 11 Claims. (Cl. 242—36.)



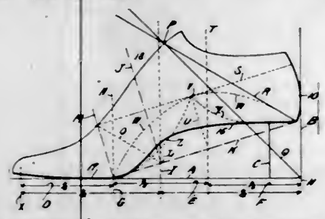
1. A winder having, in combination, a cheese-arm feeler, a cheese feeler, a bobbin feeler, and a stop mechanism operable by any of said feelers.

1,475,689. TWEEZERS. MATT M. COREY, Chicago, Ill., assignor to R. D. Swisher Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Nov. 6, 1922. Serial No. 599,188. 1 Claim. (Cl. 294—35.)



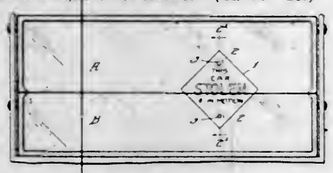
In tweezers, a leg having integral wings formed thereon, and a second leg having a neck arranged to fit between said wings and having projections at each end of said neck, said legs being secured together by folding over said wings on said neck and between said projections.

1,475,690. SHOE LAST. FRANK G. DELBON, Brooklyn, N. Y. Filed Oct. 19, 1921. Serial No. 508,650. 6 Claims. (Cl. 12—133.)



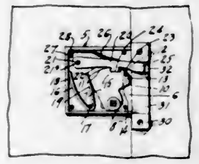
1. A shoe-last of the character described having at its inner side a concave arched recess spreading downwardly and longitudinally below the shank of the last and extending from the ball line to the heel, said arched recess also extending transversely across the shank on curved lines for a distance approximately two-thirds of the width of the shank, whereby a substantial arch is provided to create in a shoe an arch support for the first, second, third and fourth metatarsals and inner portion of the plantar fascia, and said last having at its outer side a comparatively shallow arched recess having convex surfaces and extending transversely across the shank a distance approximately one-third of the width of the shank, and said shank having at the line between said inner and outer side arches a longitudinal ridge to form in the shoe a rest and support for the fifth metatarsal and outer portions of the plantar fascia.

1,475,691. ANTITHEFT PLATE FOR AUTOMOBILES. EMORY S. ENSIGN, Evanston, Ill. Filed July 19, 1920. Serial No. 397,308. 5 Claims. (Cl. 40—15.)



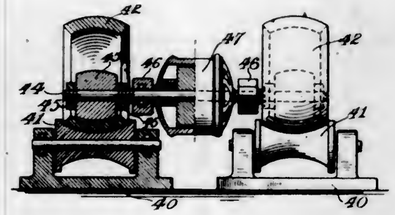
2. An anti-theft device for automobiles, comprising a rigid legend plate adapted to bridge the line of division between two relatively movable members of a windshield, and having means for releasably interengaging it with both said members.

1,475,692. LATCH. SILAS D. FARMER, Herrin, Ill. Filed Apr. 29, 1922. Serial No. 557,463. 5 Claims. (Cl. 292—336.)



1. An automatic closure latch including a spring projected bolt, a keeper embodying a fixed side member having an inclined external side face, said keeper further having an open inner end into which said bolt is adapted to be projected when the closure is shut, manually operable means for retracting said bolt from said keeper, a spring actuated locking lever adapted to engage said bolt to hold the latter retracted, said locking lever and said bolt being movable in a general direction at right angles to the direction in which the closure moves when being opened or closed, said lever projecting beyond the outer end of the latch in the direction of the keeper, and means on the bolt for holding the lever released from the bolt when the latter is projected into the keeper, whereby the bolt may be freely retracted without manipulation of said lever, said inclined external side face of the keeper acting as a fixed oblique guiding face engaged by the free end of the locking lever for automatically releasing the latter from the bolt when the closure is shut.

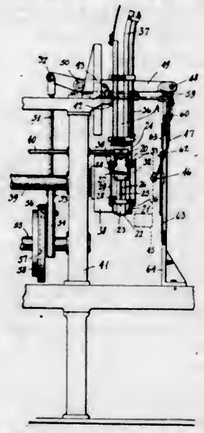
1,475,693. ROLLER-GRINDING MACHINE. JOSÉ FELENCZ, Curityba, Parana, Brazil. Filed Apr. 30, 1921. Serial No. 465,691. 1 Claim. (Cl. 83—9.)



A rolling mill comprising drums having open ends mounted for free rotation around a common horizontal axis, a grinding roller in each drum held by gravity in contact with the inner periphery of its respective drum, a shaft extending through said open ends and upon which said grinding rollers are rigidly secured, oscillatory guide arms for said shaft permitting radial displacement of the grinding rollers in relation to said axis, means for rotating said shaft with said grinding rollers; said rotating means including a motor suspended from said shaft, the weight of said motor, shaft, and grinding rollers being sustained upon the inner periphery of said drums; whereby a constant pressure is exerted against said drums independent of the revolving speed of the rollers.

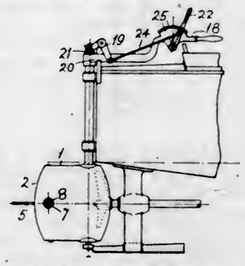
1,475,694. MACHINE FOR WRAPPING BOXES. MARTIN FEYBUSCH, New York, N. Y., and PAUL W. FLEISCHER, Weehawken, N. J., assignors to New Jersey Machine Corporation, Hoboken, N. J., a Corporation of New Jersey. Filed Oct. 17, 1921. Serial No. 508,356. 39 Claims. (Cl. 93—54.)

1. In a machine of the class described, a box holder movable lengthwise of its axis, means for wrapping a flexible strip around a box carried by said holder, and a retainer located in the path of the box carried by said



holder and arranged to engage the bottom of said box when the latter is in operative relation to the wrapping means.

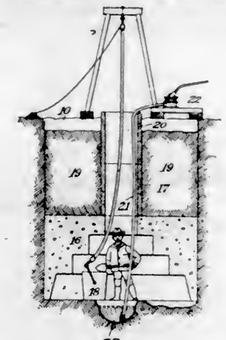
1,475,695. MEANS FOR CONTROLLING AND REVERSING SHIPS PROVIDED WITH PROPELLERS. SIDNEY GOLDEN, Altrincham, England, assignor to George Flinders Jarvis, London, England. Filed Mar. 28, 1923. Serial No. 628,279. 4 Claims. (Cl. 114—145.)



1. A ship provided with a propeller, a reversing and controlling means comprising a tubular body mounted to swing about a substantially vertical axis intersecting the axis of rotation of the propeller and to enclose the wake thereof said body being splayed laterally at the forward end thereof and a "butterfly" type of valve element behind the propeller and pivoted to the sides of said body inside with the pivots thereof in a horizontal plane, said valve element being mounted so as to swing from a feathering position in the wake of the propeller into an approximately vertical position relative to the axis of the tubular body and adapted to completely close the passage through said body to the wake of the propeller and stops to prevent said valve element from passing beyond said feathering and vertical positions, and means operated from inside the ship for swinging said valve element and holding it in any desired angular position in the arc through which it can move.

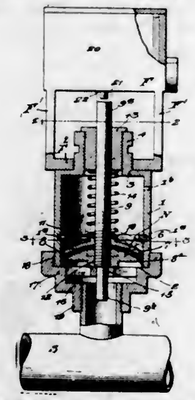
1,475,696. CONSTRUCTING FOUNDATION COLUMNS AND THE LIKE. CHARLES R. GOW, Boston, Mass., assignor to Charles R. Gow Company, Boston, Mass., a Corporation of Massachusetts. Filed June 6, 1922. Serial No. 566,232. 5 Claims. (Cl. 61—50.)

2. In the art of making footed foundation-columns and the like, the improvement comprising establishing in the ground a concrete caisson having a relatively narrow working shaft extending upwardly therefrom, and remov-



ing earth from under the caisson and depositing more or less of such earth upon the caisson to aid the descent of the latter as the work proceeds.

1,475,697. FLUID-PRESSURE-ACTUATED SWITCH VALVE. HARRY BUXTON HARTMAN, Scottdale, Pa., assignor to Electric Water Sterilizer and Ozone Company, a Corporation of Pennsylvania. Filed Aug. 13, 1920. Serial No. 403,431. 2 Claims. (Cl. 200—82.)

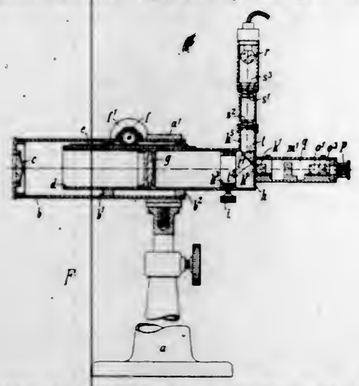


1. In an electro-fluid device of the class described, a casing having a relatively closed end wall provided with a collar and open at the other end, a chambered fitting secured to the open end of the casing and provided with a threaded pipe-nipple-receiving opening, an abutment carried by the inside wall of the casing, a plunger operable in the casing, a spring for holding said plunger normally seated against a portion of said fitting, a bushing arranged within said collar and providing a guide for the stem of the plunger and also constituting an abutment for said spring, and a switch device surmounting said casing and surrounding the collar.

1,475,698. APPARATUS FOR THE OBJECTIVE MEASUREMENT OF THE REFRACTIVE VALUE OF THE PRINCIPAL POINT OF THE EYE. OTTO HENKER, Jena, Germany, assignor to the Firm Carl Zeiss, Jena, Germany. Filed Aug. 13, 1921. Serial No. 492,190. 3 Claims. (Cl. 88—20.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

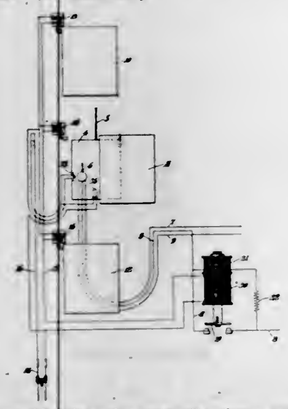
1. In an apparatus for the objective measurement of the refractive value of the principal point of the eye, a two-hole diaphragm, an optical system adapted to

form a real image of the said two-hole diaphragm in the pupil of the eye to be observed, an ocular, optical means adapted to form two images produced by the two ray pencil systems, separated by the said two-hole



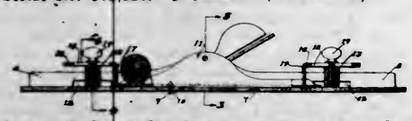
diaphragm in the image field of the said ocular, and a prism system located in front of the ocular and adapted to combine the said two images so as to be contiguous to each other.

1,475,699. CAR SYSTEM. HENRY G. HILLMAN, New York, N. Y. Filed July 28, 1920. Serial No. 399,458. 8 Claims. (Cl. 187—31.)



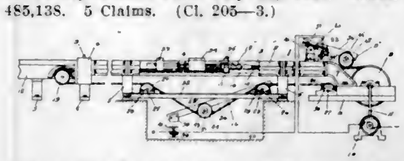
5. The combination of a controller for a car, a control circuit energization of which is effected by movement of the controller away from its neutral position, a safety switch for the control circuit, operation of which switch renders the control circuit inoperative to move the car, a magnet for operating said switch responsive to the opening of a door, and a coil energized by movement of the controller away from its neutral position for holding said switch inoperative upon the closing of the door.

1,475,700. EXTENSION PLANE. FRANK W. HUMPHREYS, Ocean City, N. J. Filed Aug. 3, 1922. Serial No. 579,316. 5 Claims. (Cl. 145—5.)



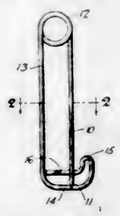
1. An attachment for planes comprising a shoe adapted to receive a plane; adjustable clamping means for securing the plane in operative position in the shoe; and means for permitting movement of said clamping means to various adjusted positions on said shoe.

1,475,701. SLACK-CABLE DEVICE. GRIFFITH JOHN, Yonkers, N. Y., assignor to Sundh Engineering and Machine Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 15, 1921. Serial No. 485,138. 5 Claims. (Cl. 205—3.)



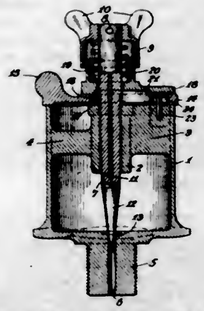
1. In a tube drawing apparatus, the combination of a draw clamp, pulling and return cables, means to actuate the cables, an electric motor to drive the means to actuate the cables, a supply circuit to the motor, and a slack cable device, adapted to be actuated by the return cable, a switch, adapted to be automatically oepned by the slack cable device, to interrupt the supply circuit to the motor.

1,475,702. PIN. WILLIAM A. JOHNSON, Yonkers, N. Y., assignor of one-half to Pearson Products Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 14, 1922. Serial No. 543,614. 3 Claims. (Cl. 24—161.)



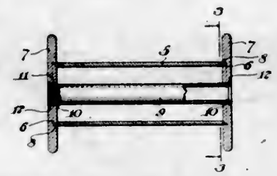
1. A pin formed from a single piece of wire, comprising a pointed shank, a loop, a leg substantially parallel with the shank and a transverse portion formed on the end of the leg, crossing the shank substantially at the point thereof and a return portion crossing the shank at a point spaced from the end thereof, the return portion being concaved and disposed out of the plane of the first named crossing portion.

1,475,703. OIL CUP. LEOPOLD KASSANDER, New York, N. Y., assignor to Nathan Manufacturing Company, New York, N. Y. Filed Nov. 11, 1922. Serial No. 600,197. 6 Claims. (Cl. 184—93.)



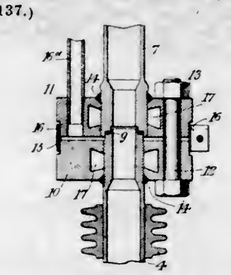
3. An oil cup having a cover with opening therein and a hub, a cap, a central spindle in the receptacle, said spindle passing through the opening and the hub and being concentric with the hub but eccentric to the opening and cap, an annular ring on said cap fitting within said opening and adapted to serve as a pivot for the cover and an annular extension on said cap cooperating with a spring and the spindle to cause pressure against the cap.

1,475,704. BOBBIN. JACOB KAUFMANN, Philadelphia, Pa., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 10, 1921. Serial No. 451,192. 5 Claims. (Cl. 242—118.)



1. A bobbin comprising an integral tubular barrel portion, flange members mounted at each end of said barrel portion comprising integral discs having annular recesses shaped complemental to the ends of the barrel portion and in which recesses said ends are seated, and a uniting device comprising a tubular member mounted within the barrel portion and having its ends serrated, said serrated ends engaging central apertures in the flanges.

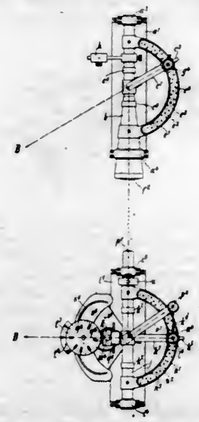
1,475,705. SAFETY JOINT FOR HIGH-PRESSURE GAS APPARATUS. WALTER FRANCIS KEENAN, Jr., New York, N. Y., assignor to Powers Specialty Company, New York, N. Y., a Corporation of New York. Filed Sept. 10, 1920. Serial No. 409,386. 5 Claims. (Cl. 285—137.)



1. In an apparatus of the kind described, a tube joint composed of the following combination of parts: tube ends forming a male and female coupling, a gasket between the two abutting ends, flanges threaded over the externally threaded tube ends, bolts and nuts for drawing the flanges together until a gas tight joint between the abutting tube ends is formed, a ring member about said flanges, a closed annular chamber formed in and by the flanges and ring member and surrounding the abutting tube ends, and a pipe from the same to the atmosphere through which gas that may leak through the joint will be carried off and disposed of.

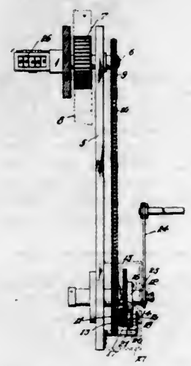
1,475,706. TELEMETER. ALBERT KÖNIG, Jena, Germany, assignor to the Firm Carl Zeiss, Jena, Germany. Filed Aug. 1, 1921. Serial No. 488,979. 5 Claims. (Cl. 88—2.7.)

1. In a telemeter consisting of two observing instruments each of which comprises an objective and an ocular, the objectives being set up at two different stations and the axes of the oculars lying parallel at a distance apart equal to the interocular distance, a mark carrier disposed behind each of the said objectives at the station of the telemeter and carrying a number of marks which are visible in the appertaining ocular and arranged in such a manner that the stereoscopic marks



produced by two corresponding marks each, are lying at the same apparent distance, and an adjusting device fitted to one of the said observing instruments and adapted to bring the spatial image of the object to be measured and the stereoscopic marks into the same apparent distance.

1,475,707. FRAUD-PREVENTION MEANS FOR GASOLINE PUMPS. HUGO KOPP, New York, N. Y. Filed Feb. 4, 1922. Serial No. 534,113. 8 Claims. (Cl. 235—91.)

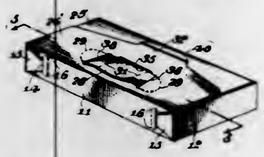


1. In combination with a pump operating mechanism including a driving member and an integrator operatively connected with said mechanism, manually operable means adapted to be detachably connected to said driving member, and means automatically operable to prevent the alternate actuation of said manually operable means and the driving member in reverse directions.

1,475,708. BOX. HENRY LEVINE, Philadelphia, Pa. Filed Aug. 17, 1921. Serial No. 492,929. 2 Claims. (Cl. 229—36.)

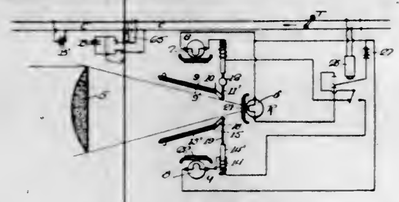
1. A box consisting of a single integral blank of flexible material having bottom, side, end portions and a cover comprising two flap portions, the said side and end portions adapted to be bent into positions substan-

tially at right angles to the said bottom portion and means for securing the said side and end portions together and one of the said cover portions being provided with a tongue-like extension having laterally extending projections thereon and the other of said cover portions being provided with a narrow opening therein which extends in parallel relation to the edge of the side to



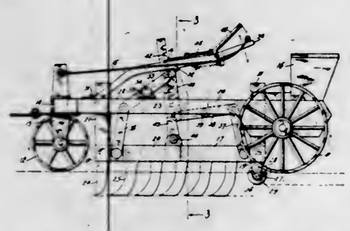
which said portion is connected and other diagonally extending openings spaced from the opposite ends of said opening and the said tongue-like extension together with the lateral projections thereon being adapted to extend from the underside of the said other cover portion through the said narrow opening and the said lateral projections on said tongue adapted to engage said diagonal openings, substantially as described.

1,475,709. CHROMATIC LIGHT SIGNAL SYSTEM. DANIEL J. MCCARTHY, Elgin, Ill., assignor to Chicago Railway Signal and Supply Company, a Corporation of Illinois. Filed Oct. 11, 1920. Serial No. 416,047. 11 Claims. (Cl. 177—327.)



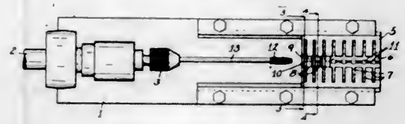
2. In a railway signal system the combination of a plurality of sources of different colored lights; a lens thru which light is directly projected from one source of light; an opaque reflector structure normally in the direct path of light from another source of light and remotely controlled means to move the reflector structure to position to reflect light thru the lens from the second mentioned source of light and to shut off light of the first source of light from the lens.

1,475,710. PLOW. ALEXANDOR MÉSZÁROS, New York, N. Y. Original application filed Apr. 18, 1921, Serial No. 462,477. Divided and this application filed Feb. 9, 1922. Serial No. 535,340. 1 Claim. (Cl. 97—237.)



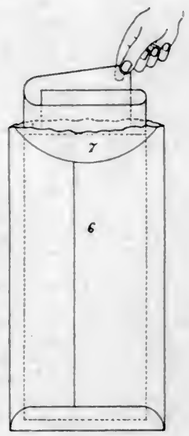
An agricultural machine, comprising a rectangular main frame including longitudinal beams having vertical guide grooves therein, an auxiliary frame vertically movable thereon including horizontal transverse beams provided with vertical posts disposed in said guide grooves, farming implements mounted on said auxiliary frame, a plurality of levers and links connecting said two frames, an actuating lever fulcrumed to said main frame co-operating with said first-mentioned levers and links, a notched bar pivoted to said auxiliary frame and extending through said actuating lever, and a latch on said actuating lever co-operating with said notched bar.

1,475,711. NUT-TAPPING MACHINE. WILLIAM R. MORGAN, Jackson, Mich. Filed Nov. 29, 1922. Serial No. 603,936. 5 Claims. (Cl. 10—139.)



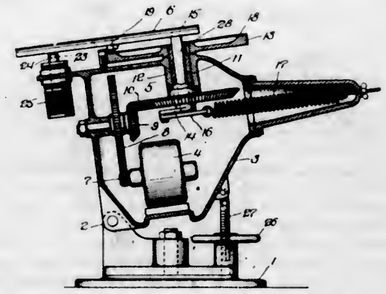
3. In a nut tapping machine, the combination of a spindle provided with a tool chuck, a work carriage slidable longitudinally of said spindle and provided with a longitudinal groove conformed in cross section to the nuts to be tapped and with a series of slots disposed transversely of the groove to receive the nut flanges providing a plurality of holders open at the top to receive the nuts which are supported thereby in alinement to be successively acted upon by a tap, there being a series of holes in the bottom of the groove for the discharge of the chips, and a tap provided with a spindle permitting it to successively act on the series of nuts.

1,475,712. METHOD FOR HOLDING WAX SHEETS OF PAPER. CHARLES S. MOORE, Shelby, Ohio, assignor to The Crystal Waxing Company, Middletown, Ohio. Filed Mar. 29, 1922. Serial No. 547,703. 1 Claim. (Cl. 206—57.)



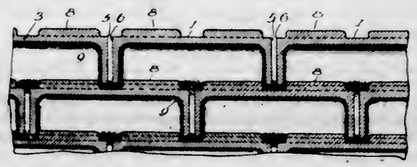
A package for wax sheets comprising a wrapper opened at one end to permit of the insertion of a plurality of wax sheets folded first inwardly upon the central portion and then in opposed relation over the inwardly folded portion, said folded wax sheets being adapted to be inserted in the opened end of said package, whereby the tension of the folded wax sheets exerts an outward pressure against the sides of the package holding the same in position under tension, thereby permitting the withdrawal of a single sheet at a time by the user through the manipulation of a single sheet by the thumb and forefinger of the user, as described and set forth.

1,475,713. MOTOR-DRIVEN TARGET-THROWING MACHINE. CHARLES H. NAPIER, Cleveland, Ohio. Filed Feb. 10, 1922. Serial No. 535,471. 5 Claims. (Cl. 124—6.)



1. A throwing machine of the class described, comprising a motor, a rotatable throwing mechanism, a spring for operating said throwing mechanism, means driven by said motor for tensioning said spring, and a clutch arranged to connect said tensioning means with said throwing mechanism and being adapted to permit the release of said throwing mechanism when the speed of the latter exceeds the speed of said tensioning means, said clutch and tensioning means being relatively arranged so as to permit the connection of said throwing mechanism and tensioning means substantially immediately when the speed of rotation of the former is reduced to the speed of the latter.

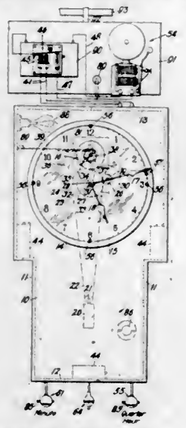
1,475,714. BUILDING BLOCK OR BRICK. JOHN NEUMANN, Chicago, Ill. Filed Feb. 8, 1922. Serial No. 534,893. 3 Claims. (Cl. 72—41.)



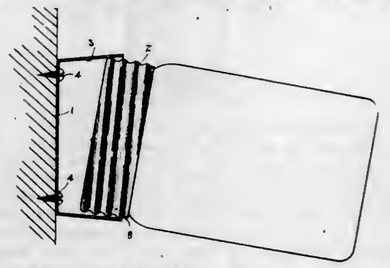
1. A hollow block of the kind described having one side open the entire area of said side except at the bounding edges of the block, and a polygonal lug projecting from one face, of a size to be received in a recess provided in a mating block when said first-mentioned block is arranged either longitudinally or transversely of the mating block.

1,475,715. TYPING-SPEED RECORDER. ALFRED E. OSWALD, Bogota, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 25, 1921. Serial No. 439,776. 13 Claims. (Cl. 161—3.)

7. The combination of a clock comprising a hand, driving means therefor, an electric circuit, said hand being connected in said circuit, a contact device in the circuit to be engaged by said hand to close the circuit, signaling means, an electro-magnet in the circuit to be energized when the circuit is closed to cause the signaling means to be actuated, and means connected in parallel with the electro-magnet to expend the induced current of the electro-magnet when the circuit is open.

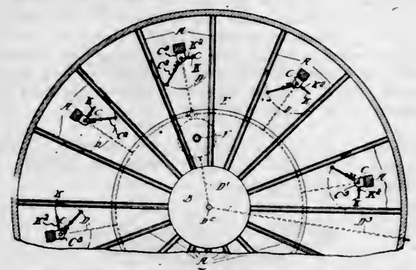


1,475,716. FRUIT-JAR-COVER FASTENER AND REMOVER. CRELLAN GRANT OVERBAUGH and FRANK KELL, Port Rowan, Ontario, Canada, assignors to Ernest A. Killmaster, Cleveland, Ohio. Filed Aug. 19, 1919. Serial No. 318,517. 3 Claims. (Cl. 81—3.1.)



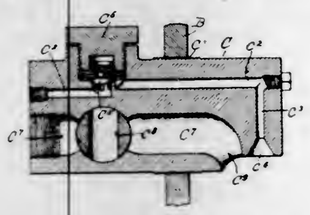
1. A fruit-jar cover fastener and remover, comprising a circular member having a smooth plane conical surface adapted to frictionally grip the jar cover.

1,475,717. LOCOMOTIVE BLOW-OFF SYSTEM. SPENCER OTIS, Chicago, Ill. Filed Feb. 5, 1921. Serial No. 442,647. 8 Claims. (Cl. 104—51.)



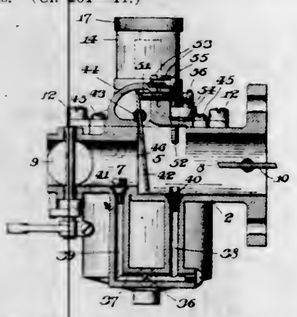
1. In a blowoff system for steam boilers, a blowoff pipe, a drain receiving discharge therefrom, and a cold-water pipe delivering into said blowoff pipe, in relation to condense the steam flowing therethrough.

1,475,718. BLOW-OFF PLUG FOR BOILERS. SPENCER OTIS and WALTER A. GARDNER, Chicago, Ill. Filed Feb. 12, 1921. Serial No. 444,395. 8 Claims. (Cl. 122—379.)



1. A combined air blast and water blow-off plug for steam boilers having controlled passages for air and water therethrough, communicating independently with the interior of the boiler and adapted respectively to deliver air thereto and withdraw water therefrom.

1,475,719. CARBURETOR. JOSEPH W. PARKIN, Philadelphia, Pa. Filed Feb. 7, 1922. Serial No. 534,684. 5 Claims. (Cl. 261—41.)



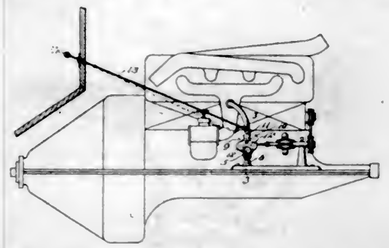
5. A carburetor comprising a casing having a carbureting passage provided with an air inlet and a mixture outlet, a throttle valve controlling the mixture outlet, a main fuel nozzle having a discharge opening communicating with said passage, a second fuel nozzle communicating with said passage between the main nozzle and the throttle valve and having a discharge opening of less cross sectional area than that of the main nozzle, a fuel feed controlling part discharging into a divided passage which leads to said nozzles, said part having a discharge opening of less cross sectional area than that of the main nozzle and of greater cross sectional area than that of the second named nozzle, means to supply liquid fuel to said part, a spring pressed valve pivotally connected to the casing above the nozzles and having a lower end portion movable from a position between said nozzles toward and from the throttle valve and arranged to act automatically under the influence of progressively increasing degrees of suction created therein to vary the effective cross sectional area of the carbureting passage, means for adjusting the initial position of the spring pressed valve, and an adjustable spring opposing the opening of the last named valve.

1,475,720. BUCKLE. GEORGE E. PRENTICE, Berlin, Conn. Filed Feb. 20, 1923. Serial No. 620,227. 6 Claims. (Cl. 24—191.)



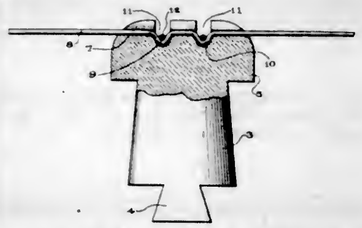
1. A buckle having a sliding member provided with a wedge-like projection comprising an abrupt shoulder and an inclined surface engageable by the free end portion of the belt, and a clamping lever having a belt engaging arm, the inclined surface of the slide member being constructed and arranged to press the belt firmly into contact with the clamping arm of the lever.

1,475,721. AUXILIARY-AIR-INLET SHUT-OFF VALVE. CHARLES A. RIVERS and FRANCIS B. STUART, El Paso, Tex.; Ara M. Rivers administratrix of said Charles A. Rivers, deceased. Filed Apr. 7, 1919. Serial No. 288,194. Renewed Jan. 30, 1922. Serial No. 532,899. 7 Claims. (Cl. 251—19.)



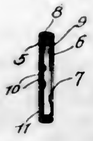
1. The combination with an auxiliary air inlet for internal combustion engines connected to the engine manifold and in communication with the atmosphere at one of its ends, a valve plate placed externally of said air inlet and being arranged to move transversely across the open end thereof whereby to control the entrance of atmospheric air, said valve plate being pivoted in an intermediate position whereby it may be moved in either direction to close the inlet port.

1,475,722. INSULATOR FOR TELEPHONE AND HIGH-TENSION CONDUCTORS. JOSEPH ROMANDY, Harmarville, Pa. Filed Aug. 25, 1922. Serial No. 584,192. 1 Claim. (Cl. 173—313.)



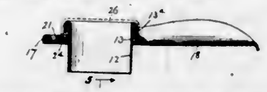
An insulator having a head with a diametrical depression to seat a conductor and also with comparatively deep channels intersecting the depression to seat pendent deflections of the conductor, in combination with a ball-shaped holder hingedly connected to the insulator and having side portions for engagement within the channels and a pendent bight end portion exteriorly of the insulator, and a keeper detachably arranged in the insulator above the free portion of the holder.

1,475,723. COVERED BUTTON. LOUIS ROSENBERG, New York, N. Y. Filed July 9, 1921. Serial No. 483,459. 7 Claims. (Cl. 24—113.)



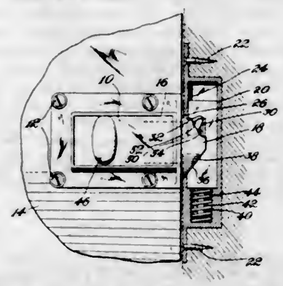
1. A button of the character described comprising a body section, a second body section co-acting therewith covering material adapted to be extended over the side of the first-mentioned body section opposite from the second body section, said sections having means for clamping the covering material in position on the first-mentioned section, and said first-mentioned section being provided with spaced needle guide openings concealed by the covering material.

1,475,724. OUTLET FOR CANS. ISAAC E. SEXTON, Winchester, Mass. Filed Feb. 17, 1923. Serial No. 619,658. 2 Claims. (Cl. 22—23.)



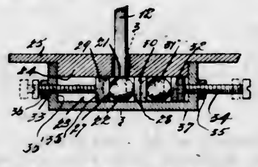
1. A receptacle outlet comprising a nozzle adapted for attachment to the receptacle, and a spout having a circular orifice formed to receive said nozzle, said spout and nozzle being provided with complemental interengaging members, adapted to prevent rectilinear sidewise movement of the spout, and permit edgewise swinging movements thereof on the nozzle, the nozzle being composed of a tube, a minor portion of which is turned back over itself to form an annular flange surrounding a major portion of said nozzle, one of said interengaging members being formed on said flange, and the other on the margin of the spout orifice.

1,475,725. LOCK. HARRY D. STEINMARK, Brooklyn, N. Y. Filed Feb. 13, 1922. Serial No. 535,983. 5 Claims. (Cl. 292—150.)



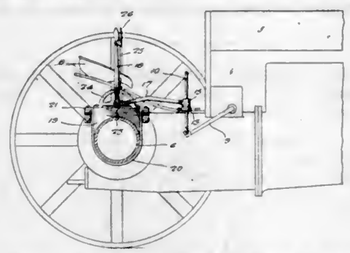
2. A lock comprising a bolt, operating means for the bolt, a keeper to receive the bolt, means in the keeper having a part adapted to interlock with the bolt, said bolt and last-named means having cooperating parts to automatically cause said first-mentioned part to interlock with the bolt as it enters the keeper, and means to shift said part out of interlocking engagement with the bolt as the bolt is retracted out of the keeper by its operating means.

1,475,726. DISPLAY DEVICE. FERDINAND STRAUSS, New York, and FREDERICK L. SCHLEY, Brooklyn, N. Y., assignors, by mesne assignments, to said Ferdinand Strauss. Filed Apr. 20, 1922. Serial No. 555,683. 4 Claims. (Cl. 64—49.)



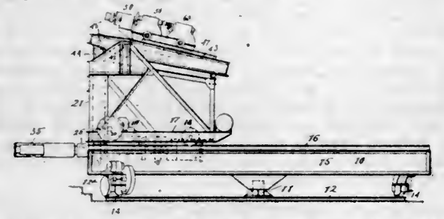
1. The combination of a vertical shaft, a plurality of balls adjacent the lower end of the shaft, said shaft resting upon one of the balls, and means to move the ball in use away from the shaft and to move a new ball into place under said shaft.

1,475,727. CLUTCH-PEDAL OPERATOR FOR TRACTORS. JOHN H. STROH, Anchor, Ill. Filed May 4, 1923. Serial No. 636,536. 1 Claim. (Cl. 74—39.)



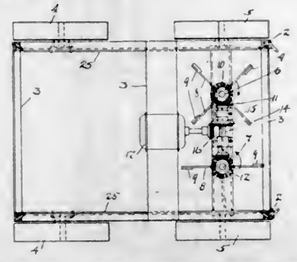
In combination with the clutch pedal of a tractor, a vertically directed rod pivotally secured at one end to said clutch pedal, an abutment upon said rod remote from the free end thereof, a collar freely slidable upon said abutment, a bell crank hand lever pivotally secured to the tractor adjacent the driver's seat thereof, a pivotal conection between one arm of said bell crank and said sliding collar and means for maintaining said bell crank in a desired swung position.

1,475,728. MANIPULATOR. IVOR D. THOMAS and PAUL H. DOUGLAS, Cleveland Heights, Ohio, assignors to The Wellman-Seaver-Morgan Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 11, 1921. Serial No. 460,372. 17 Claims. (Cl. 78—96.)



1. In a manipulator, a movable member or carriage, a gripping unit comprising gripping members and a supporting portion extending rearwardly therefrom, and supporting means for the gripping unit including a plurality of links on the lower ends of which the gripping unit is hung from the carriage, said links being spaced lengthwise of the supporting portion, said links being capable of a swinging movement to permit a yielding of the gripping unit in an endwise direction.

1,475,729. SAND CUTTING AND SCREENING MACHINE. HOWARD L. WADSWORTH, Cleveland, Ohio. Filed Nov. 17, 1919. Serial No. 338,655. 6 Claims. (Cl. 259—144.)



1. In a machine of the character described the combination of a rectangular vehicle frame and supporting wheels therefor, sand cutting means mounted on said

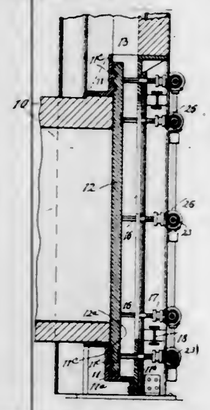
frame within the same, a crane bail attached to said frame for hoisting the same, and a towing line attached at one end of said frame whereby the same may be towed down over the ground by an overhead moving element.

1,475,730. VENDING MACHINE. JOHN H. WALTER, Brooklyn, N. Y. Filed Oct. 16, 1920. Serial No. 417,475. 2 Claims. (Cl. 211—8.)



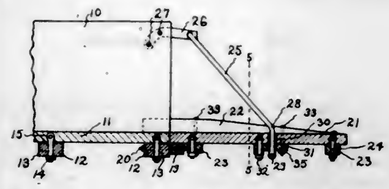
2. In a vending machine, a magazine to contain articles and having an opening at the bottom of the same, a stationary shelf in said opening having a continuously open tangential delivery orifice, a superposed relatively rotatable delivery wheel with a plurality of equally spaced axially disposed peripheral cells one being longer than the radius of the wheel to contain three articles and curved behind adjacent smaller cells so that different portions of the same shall consecutively register with the delivery orifice to prevent choking of the same by dropping each of the three articles with which it is charged seriatim, a stationary supplemental shelf above the said wheel and extending over the center of the magazine opening and positioned above the delivery orifice and curved so as to conform in contour with the said curved cell to cover an aligned cell and also to prevent more than a single layer of articles from passing between the said shelf and the delivery orifice the length of which is intermediate the diameters of the small and curved cells, and means by a single operation to periodically impel the delivery wheel a distance equal to that between the center of two adjacent cells to cause each cell to register with the delivery orifice consecutively.

1,475,731. DOOR AND DOOR-OPERATING MECHANISM FOR FURNACES AND THE LIKE. VICTOR WINDETT, Cleveland, Ohio, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 6, 1920. Serial No. 363,906. 10 Claims. (Cl. 251—56.)



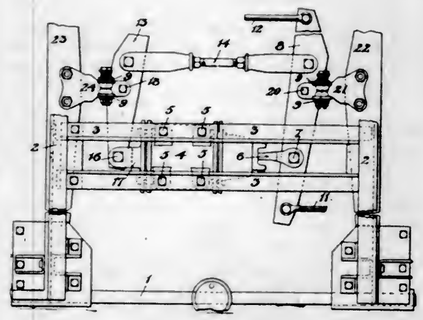
1. The combination with a door frame of a furnace or the like, of a door adapted to be shifted laterally with respect to the door frame, and a plurality of circumferentially spaced axially movable members engageable with the door for pressing the door against the frame, or for releasing the same.

1,475,732. COMBINED WAGON BOX AND END GATE. JACOB WOODS, Griswold, Iowa. Filed Apr. 8, 1922. Serial No. 550,709. 1 Claim. (Cl. 296—58.)



The combination with a wagon body having a bottom and sides, a ledge secured across the lower side of the bottom and projecting from the rear edge thereof, an end gate having a bottom and sides, said bottom being adapted to seat upon the projecting portion of the ledge and to hinge upon said ledge in swinging the bottom into raised and lowered positions, said sides of the end gate being adapted to overlap the sides of the wagon body and extending beyond the inner end of the end gate for holding the end gate in alinement with the wagon body and for interlocking engagement with the ledge when the end gate is raised, a pair of rods hinged to the sides of the wagon body in spaced relation above the bottom thereof and being offset inwardly and projecting through the bottom of the end gate, said rods being hinged at their upper ends and adapted to be folded in overlapping relation against the outer sides of the end gate when the latter is raised, supporting means for holding said rods in crossed transverse relation against the outer side of the end gate, and a clamp carried upon the outer side of the end gate and adapted for binding engagement against said rods when overlapped.

1,475,733. BRAKE MECHANISM FOR CAR TRUCKS. WALTER S. ADAMS, Philadelphia, Pa., assignor to The J. G. Brill Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1922. Serial No. 608,419. 4 Claims. (Cl. 188—153.)



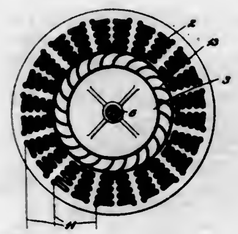
1. A mechanism of the class described comprising a truck frame, horizontal brake levers carried thereby, a brake-operating air cylinder carried by the frame and located between the ends of said levers, one of said levers being adapted to be actuated by said cylinder and the other lever being adapted to be shifted by movement of the first mentioned lever.

1,475,734. GAME. JOHN H. ANTHON, San Francisco, Calif. Filed Apr. 13, 1922. Serial No. 552,180½. 1 Claim. (Cl. 46—41).



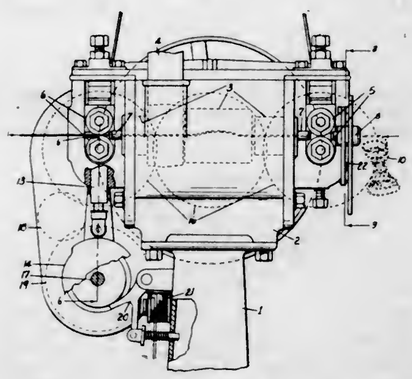
A game comprising a set of tokens, each having a second token punched therefrom, each successive second token being slightly smaller in size whereby it will fit only its respective first token, each of said first and second tokens being provided with an eyelet whereby said tokens may be suspended.

1,475,735. RESISTOR. BASCUM O. AUSTIN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 8, 1921. Serial No. 499,342. 8 Claims. (Cl. 219—48.)



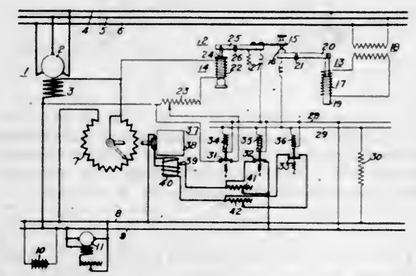
1. The combination with a hollow resistor, of a blower device positioned within said resistor, and means for actuating said device.

1,475,736. WIRE-STRAIGHTENING MACHINE. HUBERT V. BACKUS, Detroit, Mich., assignor to L. A. Young Industries, Inc., Detroit, Mich. Filed Aug. 25, 1922. Serial No. 584,259. 9 Claims. (Cl. 140—148.)



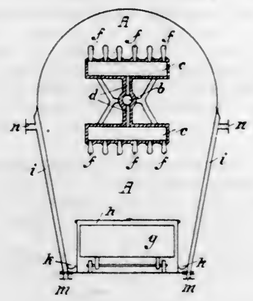
1. In a structure of the class described, the combination with a wire straightening means, of feed rolls disposed in coacting pairs at the front and rear thereof, a movable support for one of the rear pairs of feed rolls, an actuating cam for said support whereby the movable feed roll is actuated to operative position, a driving means for said cam including a clutch, means for controlling said clutch including an electromagnet, a wire guide for the first pair of feed rolls, and a control switch for said electromagnet operatively associated with said guide to be engaged by the wire to be straightened.

1,475,737. ELECTRIC REGULATOR SYSTEM. CLARENCE A. BODDIE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 15, 1919. Serial No. 310,979. 13 Claims. (Cl. 171—229.)



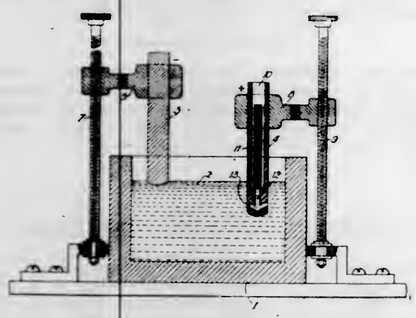
10. In a voltage-regulator system, the combination with a main control element of the vibratory type, of a motor-operated rheostat controlled by said element, and means for modifying the action of said element in accordance with the operation of said rheostat.

1,475,738. METHOD FOR PRODUCING SEAMLESS ARTICLES OF CAOUTCHOUC. ALBERT BOECLER, Malmo, Sweden, assignor to Benzine Condensation Co. Inc., New York, N. Y., a Corporation of New York. Filed Sept. 25, 1919. Serial No. 326,300. 3 Claims. (Cl. 18—58.)



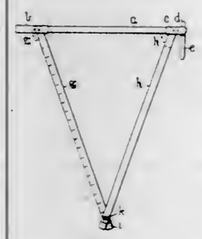
1. Method of making seamless rubber articles, comprising dipping an interiorly heated mold into a body of rubber solution, both mold and body of solution being contained in a closed chamber and cooling said chamber to condense the vapors on the sides thereof.

1,475,739. MEANS FOR REPLENISHING THE ELECTROLYTE OF ELECTROLYTIC CELLS. PORTER H. BRACE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 13, 1919. Serial No. 337,682. 7 Claims. (Cl. 204—19.)



1. The combination with an electrolytic cell including an electrolytic bath and electrodes, of means, operable through heat generated at an electrode, for liquefying electrolyte material and supplying it to the bath.

1,475,740. TRANSFORMABLE WALKING STICK. RICHARD A. BREUL, Bridgeport, Conn. Filed June 1, 1922. Serial No. 565,220. 2 Claims. (Cl. 155—135.)

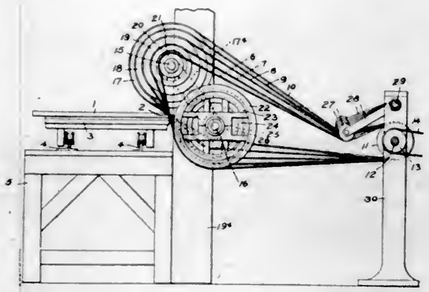


1. A device consisting of a rod, ferrules attached to both ends thereof, and extending therefrom, and of two rods journaled together by a pivot, said two rods adapted to rest upon each other, and to engage together a ferrule on the first stated rod, and also adapted to be spread apart, the free end portions arranged to enter slots in both end portions of the first stated rod, and coinciding apertures in the lower sides of the ferrules enclosing the slotted end portions of said rod.

1,475,741. CORNER-ROUNDING MACHINE. CHRISTOPHER BROWN, Charleroi, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Mar. 18, 1922. Serial No. 544,804. 8 Claims. (Cl. 51—135.)

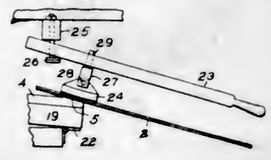
1. In combination in a corner rounding machine, a supporting device for a plate whose corner is to be rounded, an abrading device comprising a plurality of pairs of opposing pulleys with a plurality of driven abrasive belt flights side by side crossing said support at different angles intermediate the pulleys of each pair, and means whereby one of said devices may be given a movement in a direction transverse of the flights.

2. In combination in a corner rounding machine, a supporting device for a plate whose corner is to be rounded, an abrading device comprising a plurality of pairs of opposing pulleys carrying a plurality of driven endless abrasive belts arranged side by side across said supporting device at different angles intermediate the



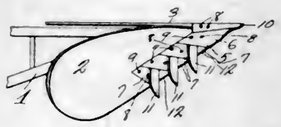
pulleys of each pair and means whereby one of said devices may be given a movement in a direction transverse of the belts.

1,475,742. MACHINE FOR SMOOTHING AND POLISHING BEVELS. CHRISTOPHER BROWN, Charleroi, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Mar. 18, 1922. Serial No. 544,805. 3 Claims. (Cl. 51—141.)



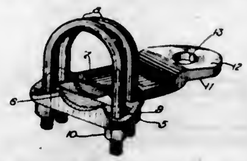
1. In combination in a bevel treating machine, a sheet or block support, an endless belt having an outer reducing surface and mounted to run transversely of the sheet carried on the support, means for driving the belt, and means for causing the belt to engage the bevel of the sheet comprising a lever back of the belt and parallel thereto and mounted to swing toward the belt, and a presser block supported by the lever and pivoted to rock on an axis transverse to the belt and to the lever and also pivoted to turn on an axis at substantially right angles to the face of the belt.

1,475,743. PLOWSHARE. OMER BROWN, Connersville, Ind. Filed Apr. 15, 1922. Serial No. 552,895. 1 Claim. (Cl. 97—117.)



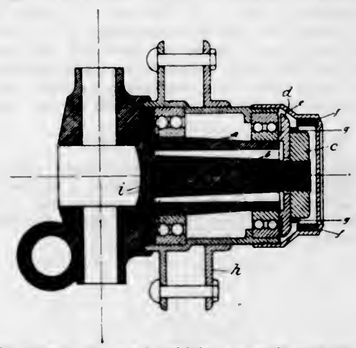
The combination with a plow having a land side, a mold board, of a plow share carried by said land side and disposed below the mold board, said plow share comprising a plurality of plates, said plates being in the same plane and in abutting engagement with each other, a bar connected to the land side, and to which bar the plates are detachably secured, said plates being provided with outwardly extending spurs, said spurs having their lower edges sharpened.

1,475,744. CLAMP. JAMES M. BROWN, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 4, 1920. Serial No. 378,860. 7 Claims. (Cl. 287—54.)



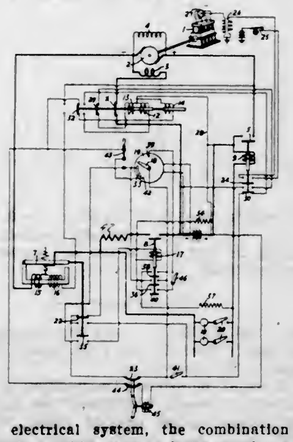
1. A clamp comprising a flat body portion having a tube seat extending longitudinally thereof and provided at one end with an angularly disposed extension having an attaching face spaced from the axis of the tube seat, and lying in a plane substantially parallel to that of the flat body portion.

1,475,745. AXLE FOR ROAD VEHICLES. ANTON MARIUS BÜNGER, Svendborg, Denmark. Filed Sept. 22, 1923. Serial No. 664,312. 2 Claims. (Cl. 301—130.)



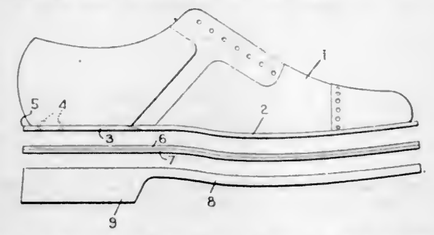
1. In an axle for road vehicles, an axle end composed of a rigid sleeve adapted to take the wheel, and a solid pin arranged concentrically within said sleeve and spaced therefrom so as to form an emergency support for the vehicle if the sleeve should break.

1,475,746. AUTOMATIC LIGHTING SYSTEM. ALBERT M. CANDY, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 3, 1916. Serial No. 129,283. 4 Claims. (Cl. 290—30.)



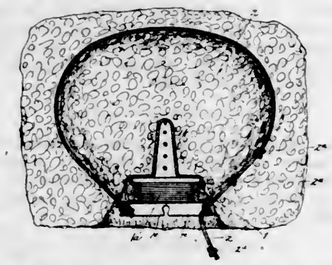
2. In an electrical system, the combination with a dynamo-electric machine and a battery, of means comprising a pair of line switches for electrically connecting them, said switches having respectively normally open and closed positions, and means whereby said closed swich is automatically opened when the battery discharges to a predetermined degree.

1,475,747. SHOE. WILLIAM H. CARY, Brockton, Mass., assignor to Avon Sole Company, Avon, Mass., a Corporation of Massachusetts. Filed June 29, 1923. Serial No. 648,459. 2 Claims. (Cl. 36—14.)



1. A welted shoe comprising a welt, a base unit consisting of an upper layer of a tough substantially non-extensible homogeneous composition of fibre and rubber to maintain the shape of the shoe and form an anchorage for stitches and a lower layer of rubber cohering homogeneously to the upper layer throughout its entire area, stitches passing through and uniting the welt and base unit and a relatively thick tread member of rubber cohering homogeneously to the lower layer of the base unit throughout its entire area, whereby the base unit and tread member form an indivisible outer sole with the stitches embedded well beneath the tread surface.

1,475,748. AUTO SPONGE SPRAY. EMIL CHRISTENSEN, Portland, Oreg. Filed Oct. 18, 1921. Serial No. 508,553. 2 Claims. (Cl. 15—130.)

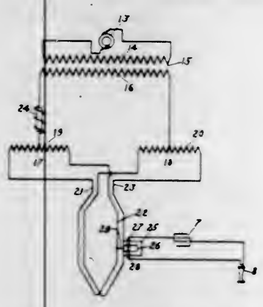


1. A device of the character referred to comprising a head threaded to be attached to a water hose and having an integral extension centrally thereof perforated through its side, and having at its attached end a flange portion with openings therein, a flexible element attached at one end to said device and adapted to have its opposite end detachably held in one of said openings at different positions at will, and a washing element adapted to be placed around the extension part of said head and to be detachably held in place by said flexible element when the latter is secured in the openings in said flange portion, substantially as described.

1,475,749. TESTING DEVICE. LEWIS WARRINGTON CHUBB, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 9, 1918. Serial No. 221,396. 5 Claims. (Cl. 175—183.)

3. The method of testing a two circuit armature coil for short-circuits which consists in connecting one circuit to one terminal of a source of alternating current

and the other circuit to the other terminal of the source of alternating current and causing a differentially wound



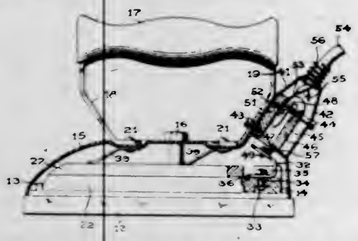
testing instrument to be passed along the coil to determine the point of short-circuit between the conductors of the coil.

1,475,750. SEPARABLE BUTTON. GEORGE CLOUTIER, Attleboro, Mass. Filed Apr. 18, 1923. Serial No. 632,937. 5 Claims. (Cl. 24—102.)



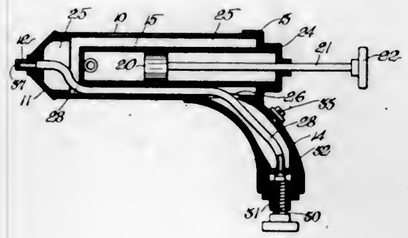
1. A separable button comprising a body member having a stud projecting therefrom with a head and a reduced neck portion, a second cooperating socket member having a hollow head, a plate with an opening through it mounted between the walls of said head, and an elongated U-shaped spring mounted in the opening in said plate, the free ends of said spring being held against expansion by the walls of said plate, the side arms of said spring being adapted to be spread by the in-and-out passage of said stud.

1,475,751. ELECTRIC IRON. ORA A. COLBY, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 10, 1922. Serial No. 542,610. 4 Claims. (Cl. 219—25.)



1. An electric iron comprising a sole plate, a refractory resistor-supporting means on said sole plate, a resistor member located in said refractory means, a refractory heat-insulating plate located on said refractory resistor-supporting means and provided with integral means interfitting therewith for maintaining it in proper operative position relatively thereto, a cover member and resilient means on said cover member for pressing said heat-insulating plate against said resistor-supporting means and for pressing said resistor-supporting means against said sole plate.

1,475,752. FIRE EXTINGUISHER. ALBERT L. COLE, Auburndale, Mass., assignor to Frank C. Parmenter, Gloucester, Mass. Filed Feb. 6, 1914, Serial No. 817,042. Renewed Jan. 18, 1922. Serial No. 530,228. 13 Claims. (Cl. 299—96.)



1. A fire extinguisher comprising a casing having a chamber for fire extinguishing finid and a nozzle, an air compressor within said chamber, a storage reservoir connected to said air compressor at one end and opening into said chamber at the other end, suitable valves controlling said reservoir, a pipe connecting said chamber with said nozzle and having its lower end open and a valve controlling the lower end of said pipe.

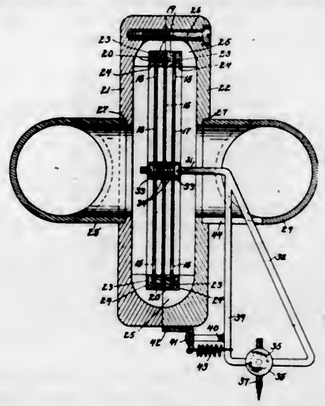
1,475,753. STOCKING BOARD. HARRY COULSTON, Philadelphia, Pa., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 10, 1920. Serial No. 395,264. 3 Claims. (Cl. 223—19.)



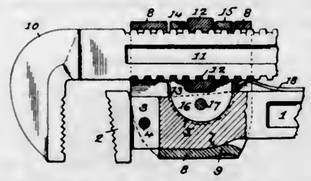
1. The combination in a stocking board, of a body portion; a heel support pivotally mounted thereon; and a spring tending to hold the heel support in either of its two positions.

1,475,754. SOUND BOX. JOHN D. CUMMINGS, Southington, Conn. Filed May 10, 1920. Serial No. 380,229. 2 Claims. (Cl. 274—35.)

1. In a sound reproducing mechanism, a sound box provided with annular shoulders, the said annular shoulders having spaced notches therein, a plurality of parallel spaced discs therein, spacing members interposed between the said discs and the annular shoulders, said spacing members provided with recesses for communication with said notches in the annular shoulders, and a needle arm centrally associated with said discs in the sound box for supporting the same.

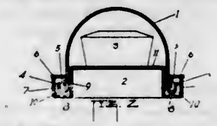


1,475,755. ADJUSTABLE WRENCH. CHARLES A. DIES, Chicago, Ill. Filed Aug. 19, 1922. Serial No. 582,960. 5 Claims. (Cl. 81—105.)



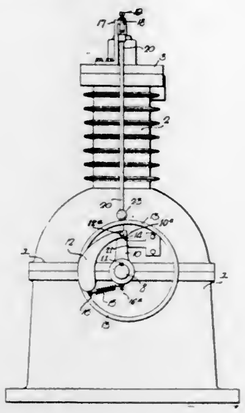
1. In a wrench of the type described, the combination of a handle member having a holding jaw at one end and a semi-circular recess in its upper face adjacent to said jaw, an adjustable member having a holding jaw and a screw threaded shank, a sleeve nut engaging said screw threaded shank, a skeleton housing of a flattened tubular form embracing the handle member and screw threaded shank aforesaid, and a rocker yoke of a flat tubular shape formed with forward and rearward extensions in spaced relation adapted to encircle said screw threaded shank and provide a receiving space for said sleeve nut, said rocker yoke having an underside of a semi-circular form for rocking engagement in the semi-circular recess of the handle member.

1,475,756. BURIAL RECEPTACLE. HARRY E. DUVAL, Chicago, Ill., assignor to Bernard J. Shanley, trustee, Ottawa, Ill. Filed Dec. 22, 1921. Serial No. 524,145. 4 Claims. (Cl. 27—35.)



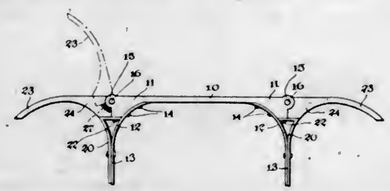
1. In a burial receptacle, a lower member comprising a platform, a channel formed around said platform, an upper member having straight sides which register with the inner sides of said channel, a laterally projecting edge from said upper member which contacts with the upper portion of the outer part of said channel and a downwardly projecting portion from said laterally projecting edge adjacent to the inner edge of said channel, forming a closure.

1,475,757. REGULATOR FOR AIR COMPRESSORS. ROBERT G. DYSON, Trooper, Pa., assignor to Franklin Air Compressor Works, Norristown, Pa., a Corporation of Pennsylvania. Filed July 8, 1922. Serial No. 573,625. 9 Claims. (Cl. 230—24.)



8. Mechanism for use with a compressor having an operating shaft and an intake suction valve, including means centrifugally movable with respect to said shaft and having a portion for actuating said valve, means operative counter to centrifugal movement for holding said portion in a position to open said valve intermittently when said shaft is moving slower than its operating speed and to keep said valve open only during the compression strokes of the compressor when said shaft is moving at said slower speed, said holding mean being of such strength as to be overcome by said centrifugal movement when said shaft has reached said operating speed to cause said centrifugally movable means to move into a position not effecting the opening of the valve.

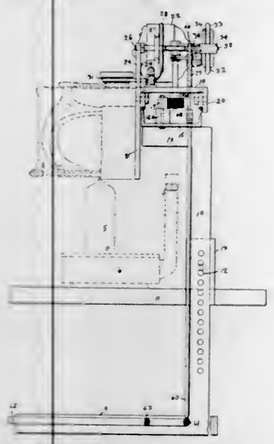
1,475,758. BUMPER FOR AUTOMOBILES. EARLE D. DODGE, Western Port, Md. Filed June 4, 1923. Serial No. 643,269. 2 Claims. (Cl. 293—55.)



1. In a device of the kind described, a central member having enlarged ends provided with arcuate rear surfaces, bracket members having arcuate forward ends engaging the arcuate rear surfaces of the central member, and secured thereto, end members each having an inner end corresponding to the respective outer end of the central member, hinged connection between the end member and the central member, other bracket members secured to the first mentioned bracket members and having lateral extensions against which the rear surfaces at the ends

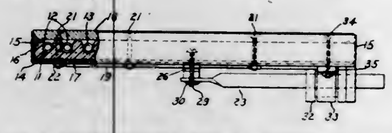
of the central and end members contact, means for securing the lateral extensions to the central member, and spring means for holding the end members normally in operative relation to the central member.

1,475,759. BAG CLOSER. IRA T. ENGLISH, Portland, Oreg. Filed Jan. 12, 1921. Serial No. 436,730. 2 Claims. (Cl. 112—11.)



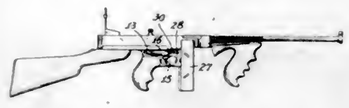
2. In a machine for sewing sacks, the combination of a sewing head having a horizontal needle with a supporting frame secured to said head and provided with grooved wheels, a channel iron whose side members form tracks for said wheel, side supports for said channel iron, a horizontal main shaft carried by said frame transversely to said track, a motor on said frame adapted to rotate said main shaft, a friction clutch between said motor and shaft, a pulley secured on said main shaft and arranged to drive said sewing head, a vertical shaft bearing in said frame, a worm on said main shaft driving a worm wheel on said vertical shaft, a claw clutch on said vertical shaft adapted to lock said worm wheel to said vertical shaft, a pinion on said vertical shaft on the under side of said frame, a rack on said channel iron between the tracks adapted to mesh with said pinion, and a treadle mechanism adapted to actuate said friction and claw clutches.

1,475,760. INCLOSED RANGE-HEATING UNIT. CARL J. FAY, Mansfield, Ohio, assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed Oct. 20, 1921. Serial No. 509,090. 3 Claims. (Cl. 219—37.)



1. In a totally inclosed heating element, in combination, a refractory resistor-supporting member, a radiant resistor supported thereby, a relatively heavy heat-receiving and heat-radiating member adjacent said radiant resistor, a dished relatively thin metallic casing substantially enclosing said refractory member, means for reducing the heat flow between said refractory member and said casing, terminal bars for said heating element, means for securing the outer ends of said bars against said casing, said securing means serving also to hold said heat-receiving and heat-radiating member in its proper operative position.

1,475,761. AUTOMATIC GUN. GEORGE OWEN FISHER, Brooklyn, N. Y.; Bessie M. Fisher, administratrix of said George Owen Fisher, deceased, assignor to Bessie M. Fisher, Brooklyn, N. Y. Filed Nov. 5, 1920. Serial No. 421,917. 9 Claims. (Cl. 42—3.)

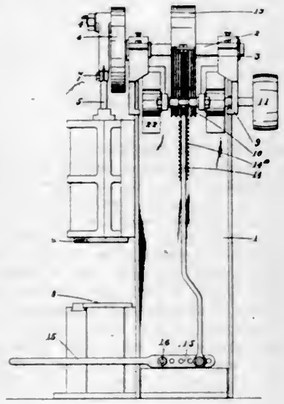


1. In a gun of the character described, a bolt, a sear for cooperation therewith, a trigger, a connector pivotally mounted on the trigger and engageable at one end with the sear, a trip lever for engaging and positioning the connector, and means for positioning said trip lever to govern the period of engagement of said connector with the sear during the operation of said trigger.

1,475,762. METHOD OF PUDDLING. EDWARD L. FORD, Youngstown, Ohio. Filed Jan. 31, 1921. Serial No. 441,507. 9 Claims. (Cl. 75—47.)

1. In the making of puddled iron, the steps consisting of cooling down the puddle bath by adding iron oxides near the end of the period of removing silicon and phosphorous and removing carbon from the iron while in a grained or granulated condition.

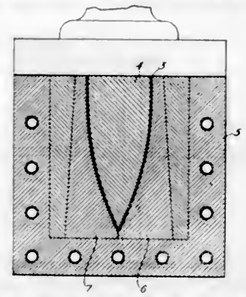
1,475,763. POWER HAMMER. GEORGE FRASER, Leven, Scotland. Filed Mar. 10, 1922. Serial No. 542,713. 4 Claims. (Cl. 192—4.)



1. A power hammer operating means comprising a pedestal, two parallel shafts on the pedestal, a driving wheel on one shaft and a driven wheel on the other shaft, treadle-operated means for shifting the shaft carrying the driving wheel, a spring to shift the shaft when the treadle is not operated, and means on the shaft of the driven wheel for operating a hammer.

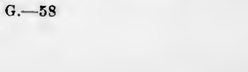
1,475,764. COMPOSITE ARTICLE. LOUIS T. FREDERICK, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 12, 1919. Serial No. 296,568. 4 Claims. (Cl. 18—48.)

3. A method of manufacturing hollow composite articles that comprises depositing paper pulp upon a core having the shape of the article desired, subjecting the pulp to heat and pressure sufficient to volatilize its liquid content and compact the pulp, impregnating the body



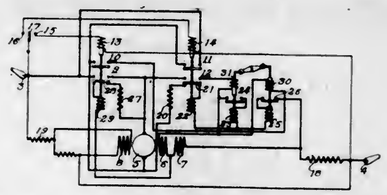
with a phenolic condensation product and applying further heat and pressure to harden the phenolic condensation product and compact the body.

1,475,765. SLATTED FLOOR, DECK, OR THE LIKE. SAMUEL GAGE, Holloway, London, England, assignor to The London General Omnibus Company Limited, Westminster, England. Filed Dec. 27, 1920. Serial No. 433,096. 2 Claims. (Cl. 20—78.)



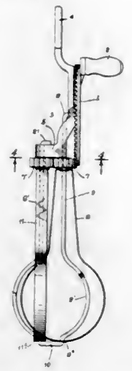
1. A slatted floor, deck or the like, comprising the combination with a supporting surface which must be maintained as free from perforations as possible, of a plurality of slats, a plurality of thin relatively broad metal strips, there being recesses on the under faces of the slats in which said metal strips of substantially the same cross section throughout their length are housed so that they lie below the upper tread surface of the slats, means for securing the slats immovably to the metal strips so as to lie transversely thereof side by side but spaced to leave a clear space insuring a foothold between each adjacent pair of slats, and means for securing the metal strips at a few points only along their length to the supporting surface to prevent relative movement between either the slats or the strips and said surface, the slats being secured directly to the metal strips only, and no part of the securing means for the metal strips projecting above the upper tread surface of the slats.

1,475,766. ELECTRICALLY-DRIVEN PLANER AND THE LIKE. SYDNEY GOWAN, Sale, and LEONARD MILLER, Whitefield, England, assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 8, 1920. Serial No. 408,807. 16 Claims. (Cl. 172—240.)



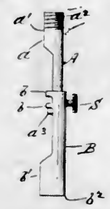
13. The combination with a dynamo-electric machine having a field winding, of means for establishing a brake circuit for said machine having two branches connected to said field winding, means for reversing said machine, and means responsive to both forward and reverse machine operation for controlling the closure of gaps in said branches.

1,475,767. EGG BEATER. JAMES A. GREEN, Torrington, Conn., assignor to Turner & Seymour Manufacturing Company, Torrington, Conn., a Corporation of Connecticut. Filed Dec. 18, 1922. Serial No. 607,470. 2 Claims. (Cl. 259—131.)



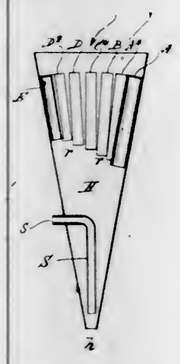
1. In an egg beater, the combination of a frame, a vertical driving gear, a horizontal pinion meshing therewith, a second horizontal pinion meshing with the first, on the side thereof opposite to said gear, beater members secured to and rotatable with said pinions, a rod having an end portion serving as axle for said gear, supported in said frame, said rod then bending downwardly through the first pinion and beater member and returning upwardly through the second beater member and pinion to provide axial supports therefor, said frame having vertical seats for the downwardly and upwardly extending arms of said rod and said rod having securing means on its said end for holding said gear against said frame and tending to hold the first pinion against said gear, and means, unconnected with said frame, for holding the second pinion at a fixed distance from the first, to hold said pinions in mesh with each other, the tightening of said gear against said frame serving to hold both arms of said rod against said vertical seats without additional securing means therefor.

1,475,768. ADJUSTABLE SUPPORT FOR ELECTRIC-LIGHT CANDLES. SIDNEY M. ISRAEL, Woodhaven, N. Y. Filed Aug. 22, 1923. Serial No. 658,744. 1 Claim. (Cl. 240—52.)



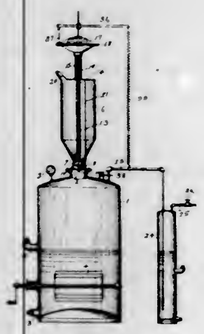
As an article of manufacture an adjustable support for electric lamps of the character designated, comprising a basic socket member formed of a single piece of sheet metal inturned into tubular form, and internally screw threaded at its lower extremity and formed with inturned lugs at the other extremity, and an adjustive nipple member formed of a single piece of sheet metal inturned into tubular form and externally screw threaded at its upper extremity and formed with retaining lugs at its lower extremity, together with a binding screw in threaded engagement with the basic section and bearing against the adjustive nipple section, for the purpose and substantially in the manner set forth.

1,475,769. RESONANCE HORN. EUGENE MEYER, New York, N. Y. Filed Aug. 14, 1922. Serial No. 581,762. 2 Claims. (Cl. 181—27.)



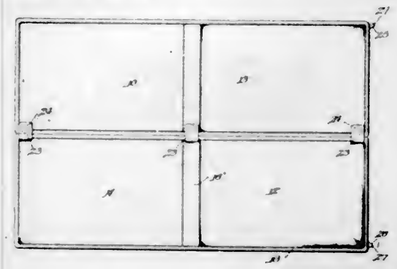
1. The combination with a conoidal horn of the character designated, of a plurality of resonant tubes, each for a definite note of the chromatic scale, positioned convergently therein, said tubes all having open ends facing the producer from the inside of the horn, the other ends being closed, substantially in the manner and for the purpose set forth.

1,475,770. ACETYLENE GENERATOR. WALLACE B. MILLER, Beaumont, Tex. Filed Feb. 4, 1921. Serial No. 442,509. 1 Claim. (Cl. 48—53.3.)



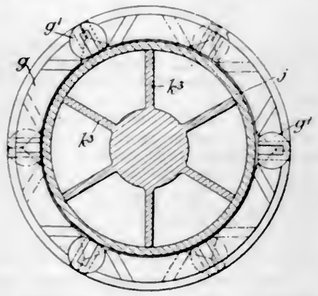
In a gas generator, a generating tank, a removable carbide receptacle secured to the top of said tank and whose lower end is reduced to form a hopper like neck, a transverse web in said neck having a central discharge opening, a valve beneath the web provided to control said opening, a stem fixed to said valve which extends up through said receptacle, a sleeve upstanding from the top of the receptacle through which the stem works, a regulator carried by the sleeve and formed with a casing, a flexible diaphragm spanning said casing to which the stem is attached, a spring surrounding said stem and interposed between the diaphragm and the top of said receptacle, said spring tending to seat said valve in the opening of said web to close the same, a lever fulcrumed at one end to the casing and connected to said stem, a spring connecting to the other end of said lever with a fixed anchor and tending to unseat said valve.

1,475,771. MATTRESS. ERNEST W. ALDRIDGE, Vinson, Okla. Filed Nov. 20, 1922. Serial No. 602,200. 3 Claims. (Cl. 5—13.)



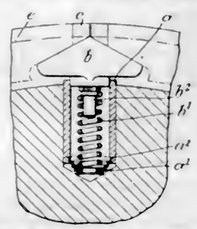
1. A mattress comprising two longitudinal sections, hingedly connected, valved air inlet connections for the respective sections, and means for connecting the sections adjacent to one surface of the mattress, said sections being otherwise independent permitting the sections to be folded over one another when inflated and when deflated.

1,475,772. PISTON OR PISTON VALVE. ROBERT ALLEN, Woodcote, near Reading, England. Filed Mar. 2, 1920. Serial No. 362,707. 3 Claims. (Cl. 74—109.)



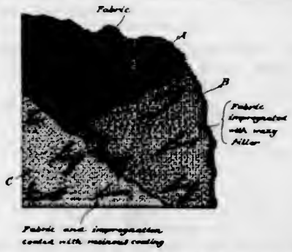
1. The combination with a piston, a segmental ring carried thereby, and a plurality of springs acting on the ring segments; of a plurality of tracks on each segment all parallel to a radial line midway between the ends of the segment, said tracks having faces oblique to the piston axis and disposed in parallel planes; said oblique faces being active in conjunction with said springs to force said segments radially outward.

1,475,773. PISTON. ROBERT ALLEN, Woodcote, Reading, England. Filed May 26, 1920, Serial No. 384,495. Renewed June 26, 1923. 5 Claims. (Cl. 74—109.)



1. The combination with a jointed packing ring, of independent expanding and sealing members for the joint of said ring, and independent means for forcing said expanding and sealing members toward the cylinder wall.

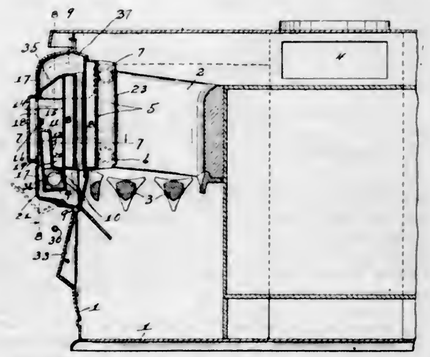
1,475,774. FLEXIBLE TRANSLUCENT SHEET. GEORGE D. ANDERSON, Hastings, Nebr. Filed Nov. 20, 1922. Serial No. 602,284. 7 Claims. (Cl. 91—68.)



2. A translucent sheet comprising a fabric base impregnated by a mixture of wax, varnish and zinc oxide.

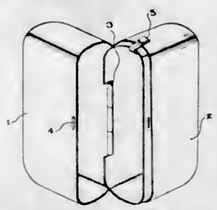
7. A translucent sheet comprising a fabric base impregnated by a mixture of paraffine, varnish and zinc oxide with an outer coating of shellac.

1,475,775. COMBINATION COAL AND GAS RANGE. CHARLES H. BAILEY, Troy, N. Y., assignor to Fuller & Warren Co., Troy, N. Y., a Corporation of New York. Filed Jan. 12, 1923. Serial No. 612,212. 11 Claims. (Cl. 126—36.)



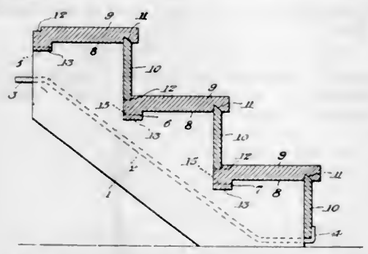
1. The combination with the body of a stove having a fire-box and a smoke-flue; of a water-front the inner side wall of which forms the front wall of the fire-box; a gas-burner having jet-openings directed toward said water-front, and an outlet flue extending from the space in front of and above said water-front to said smoke-flue and closed to the fire-box.

1,475,776. CONTAINER. SYLVESTER H. BAILEY, Superior, Wis. Filed Mar. 13, 1923. Serial No. 624,809. 1 Claim. (Cl. 206—41.)



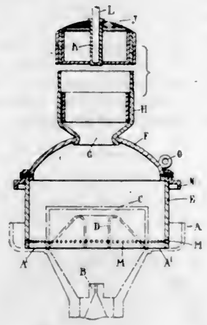
A cigarette case designed to receive therein a package of cigarettes, comprising two substantially rectangular box-like sections hingedly connected at one of their confronting edges, latching means for the sections on the opposite edges thereof, a knife operatively mounted on the outer edge of one of the sections, and said knife designed to be slid along the edge of the said section to slit the package containing the cigarettes whereby cigarettes can be individually drawn therefrom when the case is opened.

1,475,777. PORTABLE STAIR. JOHN L. BALLENGER, Greenville, S. C. Filed Sept. 27, 1921, Serial No. 503,576. Renewed June 23, 1923. 5 Claims. (Cl. 72—96.)



1. A stair construction comprising stringers of plastic material, each stringer having embedded therein a metallic reinforcement which terminates at its rear end in an extended pin and at its forward end in an extended hook, and steps and risers interlocked with each other and the stringers and detachably associated with each other and the stringers, the interlocking of the lowermost riser with the stringers being effected by the seating of said riser in the hooks of said metallic reenforcement.

1,475,778. LIGHTING ACCESSORY FOR WICKLESS BURNERS OR STOVES. BENJAMIN BARK, Isleworth, England. Filed Jan. 30, 1923. Serial No. 615,906. 1 Claim. (Cl. 158—68.)

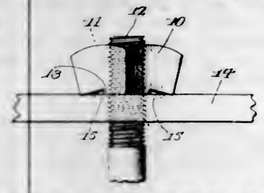


An accessory for a wickless burner of the type embodying a heated annular cup, said accessory comprising a tubular member having an open lower end adapted to rest in the annular cup of the burner and having a series of apertures adjacent its lower end, a gas deflecting ring surrounding said tubular member, a connection piece extending upwardly from said tubular member, and a burner head carried by said connection piece.

1,475,779. NUT LOCK. JOSEPH B. BARNES, Clark, Mo. Filed May 5, 1922, Serial No. 558,569. Renewed Oct. 17, 1923. 8 Claims. (Cl. 151—42.)

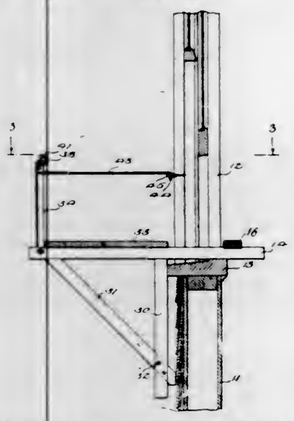
1. A locking nut comprising an angular body, means on the working face of the body for spacing certain

corner portions of the body from the face of the work, said corner portions normally in the plane of the body



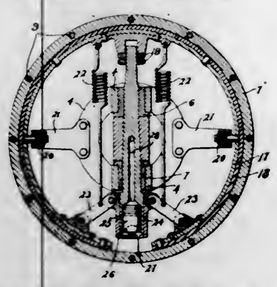
being bendable out of the said plane in the direction of the work.

1,475,780. WINDOW SCAFFOLD. CALEB R. BASINI, Carteret, N. J. Filed Oct. 7, 1922. Serial No. 593,109. 1 Claim. (Cl. 304—26.)



In a scaffold of the character described, a platform, means for supporting the platform, a stop rail connected with said supporting means, said stop rail being formed in two sections, said sections having reduced overlapping portions, a pair of straps for guiding said overlapping portions, and telescoping angle bars connected to the opposite ends of said platform supporting means for preventing the spreading of the same.

1,475,781. MOTOR VEHICLE. DAVID W. BATTERMAN, Bird in Hand, Pa. Filed Sept. 13, 1922. Serial No. 588,041. 3 Claims. (Cl. 188—152.)



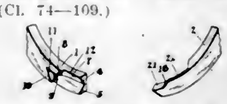
1. In combination with the front axle of a motor vehicle, a perpendicular bolt carried at one end thereof, a spindle body fitting over the end of the axle and having upper and lower bearings engaging the bolt, a wheel having its hub rotatably mounted on the body, a brake band within the hub and having its upper part resting upon the top of the bolt, a movable member on the bolt, means for connecting the movable member with the brake band and pressure means for moving said member to expand the band.

1,475,782. REMINDER SIGNAL. HENRY LINCOLN BEACH, New York, N. Y. Filed Oct. 12, 1922. Serial No. 594,127. 3 Claims. (Cl. 40—1.5.)



2. A reminder device comprising a casing composed of a front and a back hinged together at one end, a clip on said back, said clip merging into a fastening pin turned upwardly and a keeper pressed out of the clip adjacent its fixed end for receiving the front end of said fastening pin.

1,475,783. PISTON RING. LEO R. BEHNKE, Childress, Tex. Filed Aug. 9, 1922. Serial No. 580,771. 3 Claims. (Cl. 74—109.)



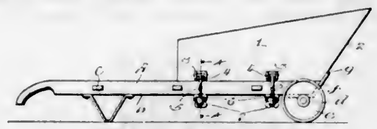
1. In a piston ring a mortised end having its upper portion cut away from its front face so as to form a relatively short surface oblique to the front face of the ring extending rearward and downward, and having its lower portion cut away from its front face so as to form a relatively long surface oblique to the front face of the ring extending upward and rearward, said upper and lower oblique surfaces meeting on a line parallel with the upper and lower edges of the ring so as to form a V shaped recess, each of said oblique surfaces curving towards the front face of the ring and terminating on a line oblique to the plane of the ring, the line terminating the upper oblique surface being oblique to the line terminating the lower oblique surface, and a tenon member adapted to fit the recess in the mortised member.

1,475,784. POMPON. AUGUST BENTKAMP, New York, N. Y. Filed June 3, 1922. Serial No. 565,614. 6 Claims. (Cl. 41—10.)



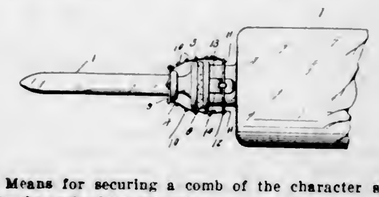
2. A pompon comprising a foundation member formed of a single strip of braid, said braid embodying closely associated bristles or fibers, the braid being folded on itself and provided with means to give to the foundation, a permanent form, and a tuft of feathers or the like secured to said fibers or bristles.

1,475,785. TRUCK AND ATTACHMENT THEREFOR. JOHN BERGSTROM, Dupont, Wash. Filed Apr. 25, 1919, Serial No. 292,575. Renewed Mar. 20, 1923. 1 Claim. (Cl. 280—51.)



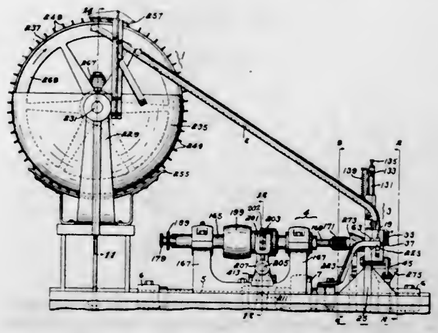
A hand truck having side bars, transverse strips disposed below the upper surfaces of said side bars and with their ends projecting laterally beyond the outer faces of the side bars, said ends being provided with open-end longitudinally disposed slots, a carrying body removably disposed on said side bars, fastening means on said body detachably cooperating with said slots, and said fastening means being movable and adapted to be disposed above the base of the carrying body when the latter is detached from the side bars so that the carrying body may have its base rest directly on a support.

1,475,786. TONIC-APPLYING COMB. HENRY L. BORSTELMAN, Lyon Mountain, N. Y. Filed Dec. 22, 1922. Serial No. 608,471. 3 Claims. (Cl. 217—100.)



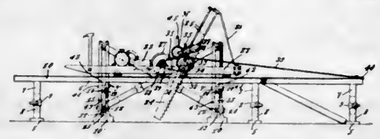
1. Means for securing a comb of the character specified to the neck of a bottle, the same comprising an oblong link, short chains at opposite ends of the link, other links adjustably engaging the short chains, opposite bowed bars engaging the adjustable links, and levers pivotally mounted upon the bowed bars.

1,475,787. MACHINE FOR DRILLING BUTTONS. DAVID BOURQUE, Rocky Hill, Mass., assignor to G. W. J. Murphy Company, Merrimac, Mass., a Corporation of Massachusetts. Filed Aug. 7, 1916. Serial No. 113,474. 26 Claims. (Cl. 77—5.)



1. A machine of the class described comprising in combination with an axially moving drill means to feed articles one by one into axial alignment with said drill and article holding means presenting more than two article engaging faces symmetrically arranged about the axial line of the drill and means for positively moving said holding means in both directions to cause said faces to approach and recede from said axial line whereby to grip and center successive articles for operation of the drill thereon.

1,475,788. DRAG SAW. GEORGE H. BROWN, Portland, Oreg. Filed Jan. 8, 1921. Serial No. 435,902. 2 Claims. (Cl. 143—68.)



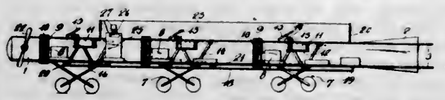
1. In a sawing machine, a base including spaced members, guide ways supported on the spaced members, adjustable clamping members movable in the guide ways means for adjusting the clamping members longitudinally of the guide ways, a vertically adjustable track section disposed above the clamping members, a carriage on the track section and adapted to travel thereon transversely of the guide ways, and a saw mounted on the carriage.

1,475,789. IMPLEMENT FOR CLEANING TEETH. THOMAS A. BUCKLEY, Brooklyn, N. Y. Filed Oct. 6, 1922. Serial No. 592,805. 4 Claims. (Cl. 132—84.)



1. In a toothbrush, a handle, a scraping face formed on the free end of said handle, and a chin rest formed in said handle intermediate of its ends, said chin rest being formed by bending said handle into a compound curve.

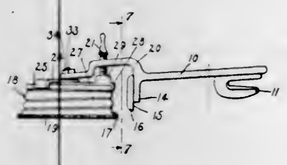
1,475,790. AIRPLANE. WILLIE CALAGAINS, Gary, Ind., assignor to Lillian Calagains, Lucile Calagains, Pearl Calagains, Hattie Calagains, Bertha Calagains, and Williemae Calagains, all of Gary, Ind. Filed Aug. 22, 1923. Serial No. 658,782. 1 Claim. (Cl. 244—14.)



In an airplane, pairs of superposed wings secured to and extending laterally from the opposite sides of the fuselage thereof, said pairs of wings being arranged in succeeding relationship, propeller means mounted upon

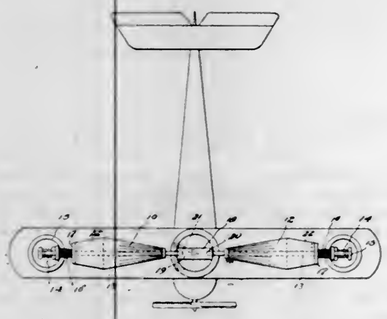
the lower planes of each of said pairs adjacent their forward portions, other propeller means carried upon the top of said fuselage and extending forwardly thereof and arranged at angles to the same, whereby to impart a combined lifting and driving thrust to the airplane, air diverting tubes extending diagonally downward over the opposite sides of the fuselage and secured thereto having their opposite ends opened, said opened opposite ends of the tubes being extended slightly beyond the upper and lower portions of said fuselage, the upper ends of said tubes being arranged in proximity to the last mentioned propeller means, and valve mechanism collectively operable from within the fuselage for normally closing the open lower ends of said tubes.

1,475,791. WRENCH AND CAN OPENER. JAMES CALLISTA, Erie, Pa. Filed June 10, 1922. Serial No. 567,355. 3 Claims. (Cl. 81—3.1.)



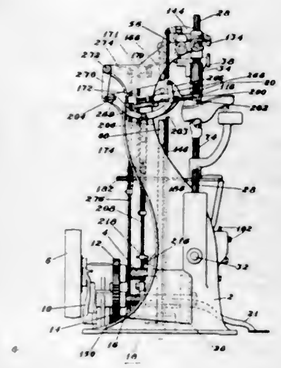
3. In a device of the class described, a handle, a plurality of jar-top gripping jaws mounted thereon, a disk mounted on the handle and rotatable in a plane perpendicular with the surface of the top, said handle having pin and slot connection with the jaws at a point near the center of the top.

1,475,792. PARACHUTE FOR AIRPLANES. VINCENZO B. CARLI, Boston, Mass. Filed Feb. 21, 1922. Serial No. 538,299. 3 Claims. (Cl. 244—21.)



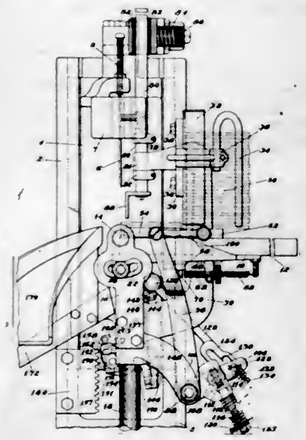
3. The combination with a pair of parachutes including supporting rods, of devices for securing the lower ends of the rods to the structure of an airplane, said securing devices permitting of universal movement of the rods, springs encircling said rods and adapted to be placed under compression, for opening the parachutes when released, the rods being movable towards each other into position in approximate alignment, a rotatable element engaging the inner ends of both rods for retaining the parachutes inactive, and means for releasing the engaging means.

1,475,793. HEEL-BREASTING MACHINE. LOUIS A. CASGRAIN, Beverly, Mass., assignor, by mesne assignmens, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 11, 1916, Serial No. 125,102. Renewed Nov. 4, 1921. Serial No. 512,955. 87 Claims. (Cl. 12—47.)



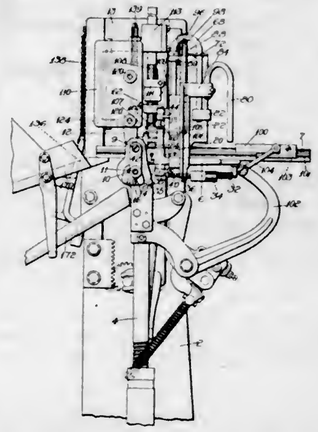
12. In a machine of the class described, a vertically fixed stop, power operated means for raising the shoe against the stop at first with yielding pressure and then with substantially positive pressure, and means for breasting the heel of the shoe while thus held positively supported.

1,475,794. MACHINE FOR OPERATING ON HEELS. LOUIS A. CASGRAIN, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 3, 1917, Serial No. 152,391. Renewed Apr. 29, 1922. Serial No. 557,423. 67 Claims. (Cl. 12—47.)



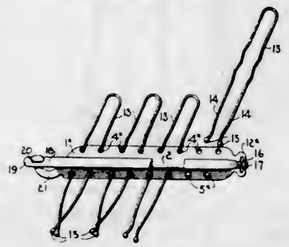
2. In a machine of the class described, the combination of a reciprocating knife, a heel support toward and from which the knife is reciprocated and along which the heel is presented to be breasted by one reciprocation of the knife, and means for advancing the heel a predetermined distance so that a finishing cut will be made upon the heel upon the next reciprocation of the knife.

1,475,795. MACHINE FOR OPERATING UPON HEELS. LOUIS A. CASGRAIN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 21, 1918, Serial No. 255,124. Renewed Jan. 22, 1923. 40 Claims. (Cl. 12—47.)



5. In a machine of the class described, the combination of a magazine having its side portions connected for equal and opposite movement to vary the size of the magazine, means for operating upon the heels, positioning means between the magazine and the operating means comprising members adapted to be separated and held apart by the insertion of a heel between them, and connections between the positioning means and the magazine to cause the magazine to be set for the size of heel which has been introduced into the positioning means.

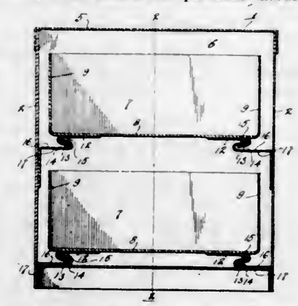
1,475,796. HAIR CURLER. FRANCES G. CONINE, Chicago, Ill. Filed May 13, 1922. Serial No. 560,612. 14 Claims. (Cl. 132—41.)



4. A hair curler comprising an elongated body member, and a plurality of means removably mounted on the body member at an acute angle to the medial line running longitudinally of the body member and about which a lock of hair is adapted to be alternatively woven.

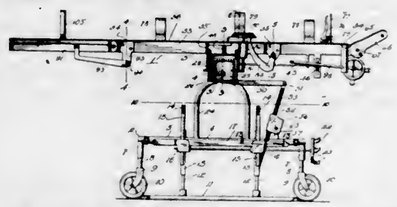
1,475,797. METAL DRAWER STRUCTURE. ISIAH CONRAD, Columbus, Ohio. Filed Mar. 10, 1920. Serial No. 364,640. 2 Claims. (Cl. 45—77.)

1. In an article of furniture, a sliding body, a relatively stationary wall disposed on each side of said body, a supporting structure for said body including a pair of angular metallic strips whose vertical portions are arranged to be rigidly secured to said walls, the horizontal ledges of said strips being located substantially at right angles to the walls and in spaced relationship from the bottom of the sliding body, said ledges terminating in outwardly extending overlapped flanges which protrude over said ledges and are spaced from the latter to define longitudinally extending grooves, metallic strips having flat horizontal portions arranged to be



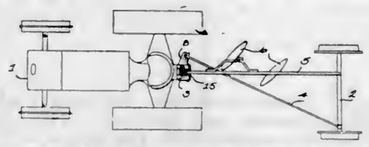
rigidly secured to the under surface of the bottom of said body, and in offset parallel relation with said horizontal edges, and said last named strips being disposed to rest upon said flanges and provided with inwardly turned guide portions arranged to be slidably received within the grooves of said wall strips.

1,475,798. OPERATING TABLE. ISIAH CONRAD, Columbus, Ohio. Filed Jan. 3, 1922. Serial No. 526,484. 5 Claims. (Cl. 45—50.)



1. An operating table comprising a base, a table member and a mounting between said base and table member permitting of adjustment of the table member with respect to said base, said mounting including a lower section secured by means of a horizontally extending shaft to said base, an upper section for said mounting comprising a collar fixed to said table and rotatable about said lower section on an axis disposed substantially at right angles to the horizontal pivotal mounting for said lower section, a manually operated lock for retaining said sections, in their various positions of rotative adjustment, and a pair of pivoted arms connected with said lower section and with said base and operated to maintain the said mounting in its various positions of adjustment with respect to its horizontal shaft.

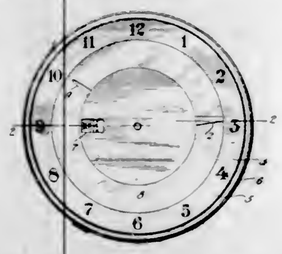
1,475,799. PLOWHITCH. WALTER SULLIVAN COTHRAN, Rome, Ga., assignor to Towers & Sullivan Manufacturing Co., Rome, Ga., a Corporation of Georgia. Filed Nov. 6, 1922. Serial No. 599,283. 3 Claims. (Cl. 280—33.44.)



1. A hitch for plows comprising a plate, a yoke folded upon said plate, the intermediate rear part of the plate and yoke being cut away, the yoke being rolled to

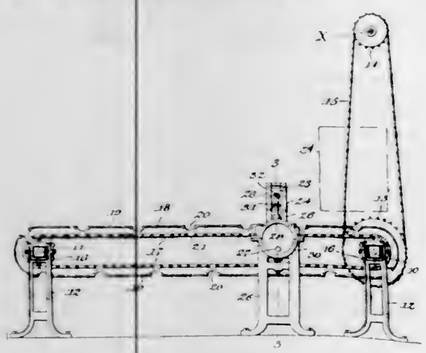
provide bearings, and an eye having lateral trunnions fitted in said bearings, said eye adapted to receive a substantially vertical portion of the plow to be drawn and said eye adapted to rock upon the trunnions in the bearings in a substantially vertical plane.

1,475,800. DIAL. LUTHER P. CREASY, Catawissa, Pa. Filed Nov. 25, 1922. Serial No. 603,284. 4 Claims. (Cl. 58—126.)



1. In combination with a case having a train of spring influenced gears and an hour and a minute hand driven thereby; of a disk fixed to the minute hand, a second disk loose on the shaft of the hour hand, spring means between said disk and hour hand for turning the former, means holding said disk from such turning and releasable by contacting engagement with the minute hand, and means limiting the turning of said disk when so released.

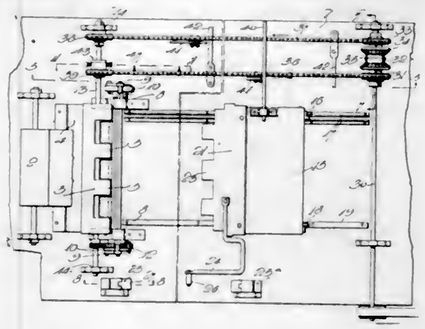
1,475,801. MECHANISM FOR CUTTING AND TRANSLATING MACARONI AND THE LIKE. FRANK A. N. CUCCIA, Brooklyn, N. Y. Filed Oct. 31, 1919. Serial No. 334,718. 2 Claims. (Cl. 107—21.)



1. In a machine of the class described, the combination of a continuously movable support having grooves to provide spaces in the supporting surface of said support, and cutting mechanism including a reciprocating knife operating in timed accord with the movement of said support so as to enter every other space in said support and to coact with portions of said support to set up a cutting action.

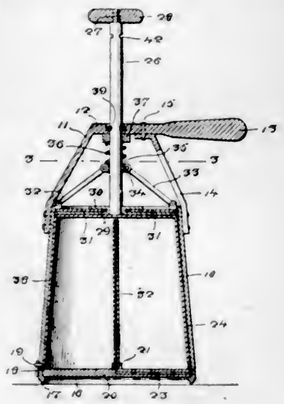
1,475,802. CLOTH-SPREADING MACHINE. MORRIS DORMAN, Baltimore, Md. Filed Dec. 4, 1922. Serial No. 604,953. 8 Claims. (Cl. 164—48.)

1. A machine of the class described comprising a sheet pulling carriage, a shear for cutting the sheet transversely, a pair of endless belts parallel with the path of the carriage, means for oppositely driving said belts, means for connecting said carriage first



with one belt and then with the other to produce reciprocation of said carriage, and an operating clutch for said shear controlled by one of said belts.

1,475,803. ICE-CREAM-RECEPTACLE-FILLING MEANS. PAUL H. DRUMM, West Frankfort, Ill. Filed Feb. 3, 1923. Serial No. 616,791. 6 Claims. (Cl. 226—19.)

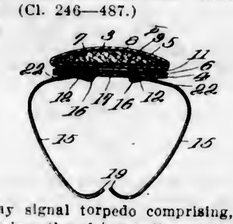


1. A device of the character described comprising a shell adapted to receive a container having an open top, the container being placed within the shell in inverted position, a handle on the shell, a plunger movable within the shell and carrying a disk forming a seat for the bottom of the container, the shell being tapered, and expansible means carried by the disk and constantly bearing against the shell for supporting the container regardless of the diameter of the bottom thereof.

1,475,804. METHOD OF PRESERVING EGGS. ROBERT DU BOIS and HILTON IRA JONES, Stillwater, Okla. Filed Aug. 2, 1921. Serial No. 489,268. 2 Claims. (Cl. 99—8.)

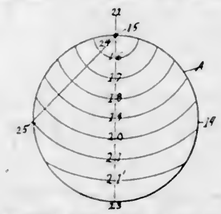
2. The method of preserving eggs which consists in subjecting the eggs to a bath of dilute sulphuric acid to form a coating, rinsing the eggs, and subsequently subjecting them to a bath of aluminum soap solution to form a second coating about said eggs.

1,475,805. RAILWAY SIGNAL TORPEDO. FRANK DUTCHER, Versailles, Pa., assignor to Central Railway Signal Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Nov. 12, 1921. Serial No. 514,689. 16 Claims. (Cl. 246—487.)



4. A railway signal torpedo comprising, an explosive, a fibrous container therefor, a rail engaging member, and a resilient disc carried within the container, the said disc adapted to carry the rail engaging member.

1,475,806. LENS FOR VEHICLE LAMPS. ELIAS L. ELLIOTT, New York, N. Y. Filed Mar. 18, 1922. Serial No. 544,929. 1 Claim. (Cl. 240—48.4.)



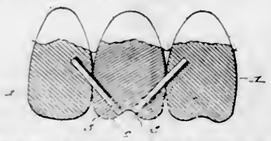
A lens for vehicle headlights having one face formed into concentric prisms whose common center is at or near the top of the lens, and whose bases are respectively at the ends of their radii, and the opposite face formed into concentric prisms whose common center is at or near the bottom of the lens, and whose apexes are respectively at the ends of their radii.

1,475,807. VEHICLE DIRECTION INDICATOR. ROBERT J. ELLIS, Los Angeles, Calif. Filed Feb. 20, 1922. Serial No. 537,832. 6 Claims. (Cl. 116—49.)



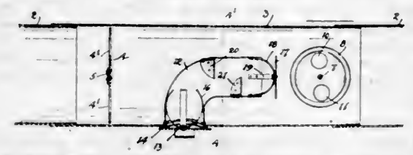
1. A direction signal comprising a casing having a transparent side, a plurality of rotatably sustained reels in the casing, means for urging one of the reels to a definite position, a web movable over the reels and having signaling indicia thereon adapted to be exposed through the transparent side, and means for actuating the web against the action of said urging means.

1,475,808. DENTAL BRIDGE. JOSEPH B. FOSTER, Roanoke, Va. Filed Sept. 21, 1921. Serial No. 502,210. 3 Claims. (Cl. 32—12.)



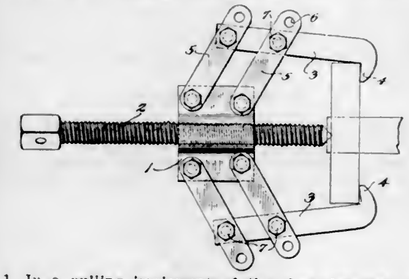
2. In means for securing artificial teeth in place, the combination of an artificial tooth and a pair of straight pins anchored in said tooth and extending angularly at opposite sides thereof for engagement with the adjacent natural teeth.

1,475,809. FUEL SAVER. FRANK FRANCIS, Winnipeg, Manitoba, Canada. Filed Dec. 3, 1920. Serial No. 428,142. 1 Claim. (Cl. 110—58.)



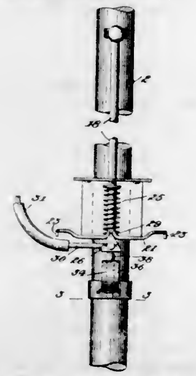
A fuel saver comprising a smoke pipe, an adjustable damper located in one end of the pipe, a supporting rod centrally crossing the other end of the pipe, a plurality of spaced discs mounted on the rod and positioned at right angles thereto, an elbow contained within the pipe between the damper and the discs and having one end axially aligned with the longitudinal axis of the pipe and the other end extending laterally and opening through the pipe to exterior air, a regulator controlling the supply of exterior air, alternately arranged baffles within the elbow and a disc like guard plate spaced from and opposing the inner end of the elbow and carried thereby.

1,475,810. PULLER IMPLEMENT. GEORGE E. FRISZ, Indianapolis, Ind. Filed Nov. 21, 1921. Serial No. 516,637. 10 Claims. (Cl. 29—85.)



1. In a pulling implement of the class described, the combination of a head and a pressure member engaging therewith, pulling arms, and means connecting the arms to the head, said means imparting to the arms a gripping movement incident to the operation of the pressure means in a direction other than that of the line of movement of the object.

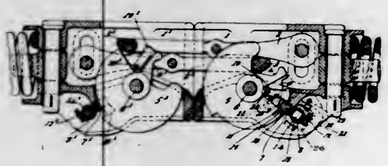
1,475,811. AUTOMOBILE SIGNAL. HARRY L. FURR, Harrisonburg, Va. Filed Aug. 22, 1922. Serial No. 583,608. 3 Claims. (Cl. 116—36.)



1. In a device of the class described, the combination of an indicator for indicating the direction in which a vehicle will turn, a lever having connection with said

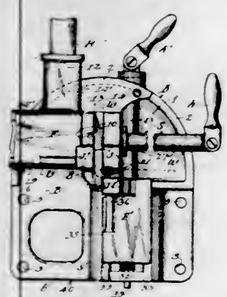
device and arranged to effect said movements, a rotary stop device carried by said lever, a track along which said device travels having limiting means for said stop device, a steering post, and a device carried by said steering post and arranged for movement freely past said stop device when the post is turned in one direction, and to engage said device for restoring the indicator to neutral position when said post is moved in the reverse direction.

1,475,812. COUPLER FOR RAILWAY AND LIKE VEHICLES. HENRY GOOLD-ADAMS and JOHN MITCHELL, London, England. Filed Mar. 10, 1921. Serial No. 451,179. 1 Claim. (Cl. 213—80.)



A coupling for railway and like vehicles, comprising a rotatable disc hook having a recess, a locking bar adapted to enter said recess, said bar having a wedge-shaped surface adapted to bear against one wall of said recess, and spring means automatically operating to insert said wedge surface into said recess when said disc is in coupling position.

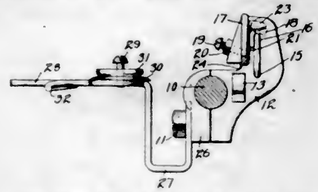
1,475,813. COMBINED BENDING MACHINE AND VISE. CLARENCE S. GORDON, Los Angeles, Calif., assignor to Robert R. McDaniels, Los Angeles, Calif. Filed Jan. 17, 1922. Serial No. 529,979. 15 Claims. (Cl. 153—16.)



1. A machine of the character described including a base, a swivel vise mounted thereon having a stationary jaw and a longitudinally movable jaw having parallel gripping surfaces, the gripping surface of said stationary jaw being in a plane cutting the axis of said swivel vise, a forming block adjustable longitudinally on said base and having a jaw adapted to be alined with the movable jaw of said vise, preparatory to a bending operation, whereby when the work is gripped between the jaws of said vise and said vise is turned on the base, said work will be bent against the jaw of said forming block.

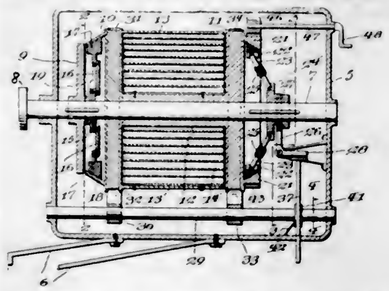
1,475,814. YARN CLEARER. DAVID GRAVEL, Chattanooga, Tenn., assignor to The Standard-Coosa-Thatcher Company, Chattanooga, Tenn., a Corporation of Tennessee. Filed Aug. 21, 1922. Serial No. 583,325. 4 Claims. (Cl. 28—65.)

1. A yarn clearing device comprising, a relatively long and narrow comb extending across the path of travel of the yarn, a supporting bar for the yarn beneath the comb and parallel thereto, a pivot for the comb parallel to said



bar and comb said bar having a flat face next to the comb teeth, and means for adjusting the comb on its pivot, substantially as set forth.

1,475,815. STARTER FOR EXPLOSIVE ENGINES. GUNDER H. GUNDERSON, Fairchild, Wis. Filed Apr. 15, 1922. Serial No. 553,303. 3 Claims. (Cl. 185—41.)



1. In a device of the character described, a shaft, a pair of heads carried by and rotatable independently thereof and of each other, a spring anchored at its ends to said heads, clutch mechanism interposed between one of said heads and said shaft and adapted to lock said head with said shaft when moved in one direction, means for establishing a driving connection between said shaft and the other of said heads in an opposite direction, a pair of levers mounted adjacent said shaft, a brake band carried by one of said levers and normally maintaining the first mentioned of said heads against rotation, a band secured to the other of said levers and maintaining the other of said heads against rotation in one direction, a rod adapted when moved a given distance in one direction to release the brake band carried by the first mentioned of said band carrying levers, and upon further movement in the same direction to operate the clutch between the second mentioned of the heads and said shaft.

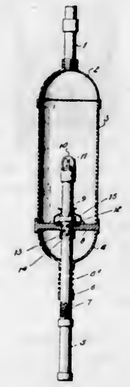
1,475,816. SCRAPING AND CUTTING TOOL. HENRY A. HALL, New York, N. Y. Filed Aug. 29, 1922. Serial No. 584,953. 2 Claims. (Cl. 30—25.)



1. A device of the class described comprising a support plate, an extension on the support plate having a hole therein, spherical lugs thereon, a housing plate

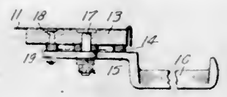
adapted to be secured adjacent said support plate, an extension on said housing plate having a threaded hole, a handle member having a plurality of radially spaced holes, a thumb nut engaging the threaded hole in the housing plate and adapted to secure the handle member to the housing and support plates, said housing and support plates adapted to receive a razor blade therebetween, and means for releasably retaining said handle in any angular position with respect to said housing plate.

1,475,817. PUMP BARREL. VAN HAMILTON, Eldorado, Kans. Filed Sept. 20, 1922. Serial No. 589,422. 2 Claims. (Cl. 103—220.)



1. In a well pumping apparatus, a working barrel, a sand catcher secured to the lower end thereof, a partition in the sand catcher above the lower end thereof, an anchor pipe movable through the said lower end and through said partition, said anchor pipe having spaced series of apertures, spring means influencing the anchor pipe in one direction whereby one of said series of apertures is covered by the partition, means limiting the movement of the anchor pipe in such direction, and a caged valve on the upper end of the anchor pipe.

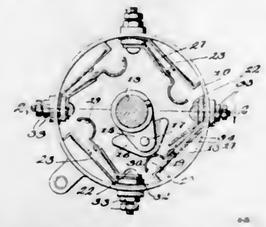
1,475,818. FOOT SCRAPER. WILLIAM O. HARMON, La Pryor, Tex. Filed Feb. 26, 1923. Serial No. 621,260. 2 Claims. (Cl. 15—237.)



1. A foot-scraper installation comprising a scraper element, an extended arm, a washer proportioned to be engaged by the arm at spaced points, a fulcrum pivoting the arm intermediate said spaced points, and means to attach the washer to the under side of a running-board.

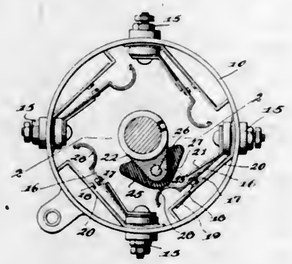
1,475,819. CONTACT FOR TIMERS. ARTHUR C. HARTMAN, Omaha, Nebr., assignor to Omaha Accessory Company, Omaha, Nebr., a Corporation of Nebraska. Filed Sept. 7, 1923. Serial No. 661,402. 3 Claims. (Cl. 200—27.)

1. In a timer, a casing, a rotary arm mounted in the casing, a circular row of pairs of spring members mounted in the casing with the inner spring members having their ends in the path of said rotary arm for depression by the same during turning of the rotary arm, pairs of contacts on said spring arms adapted to be brought together when the inner arms are depressed, and stops mounted in the casing for engaging the inner sides of the



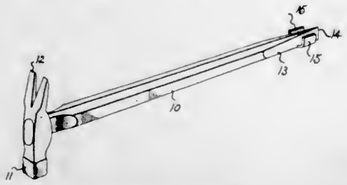
inner arms to maintain the inner arms from swinging inwardly too far when the rotary arm moves past the same and to hold the inner arms in proper position for reengagement by said rotary arm.

1,475,820. TIMER. ARTHUR C. HARTMAN, Omaha, Nebr., assignor to Omaha Accessory Company, Omaha, Nebr., a Corporation of Nebraska. Filed Sept. 7, 1923. Serial No. 661,403. 4 Claims. (Cl. 200—27.)



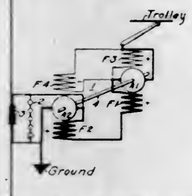
1. A timer for internal combustion engines comprising a casing adapted to be mounted in an engine about the exposed end of the timer shaft, a rotary arm in the casing for connection with said timer shaft and having spaced outstanding ears on its end and a bearing face lying between the ears, and a wiper fitting between the ears and having a complemental bearing face adapted to engage said face of the rotary arm for holding the wiper from turning between the ears, and a circular series of contacts arranged within the casing in the path of said wiper and adapted to be consecutively closed thereby during the rotation of the arm.

1,475,821. COTTER-PIN TOOL. JOHN A. HAY, New Philadelphia, Ohio. Filed Dec. 27, 1922. Serial No. 609,248. 2 Claims. (Cl. 81—3.)



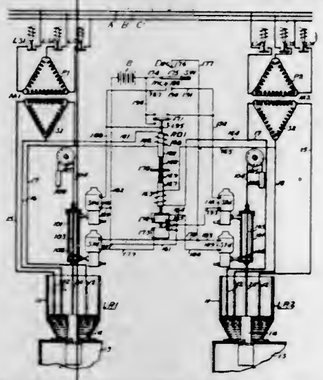
1. A tool of the character described comprising an elongated shank having one end tapered into a wedge shape and provided at opposite sides of the wedge with lugs overlying the same and spaced therefrom.

1,475,822. ELECTRICAL SYSTEM. RUDOLF E. HELLMUND, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 18, 1919. Serial No. 305,107. 4 Claims. (Cl. 171—223.)



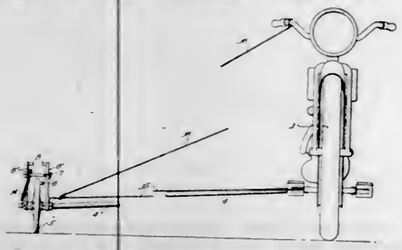
1. The combination with a supply circuit, of a motor-generator set for transforming the supply-circuit voltage to a lower value, said set having a field winding for each armature thereof energized in accordance with the difference between the voltage impressed upon the motor-generator set from said supply circuit and the delivered voltage of said generator armature winding.

1,475,823. SYSTEM OF CONTROL. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Original application filed Jan. 5, 1916, Serial No. 70,437. Divided and this application filed Mar. 13, 1920. Serial No. 365,396. 5 Claims. (Cl. 172—274.)



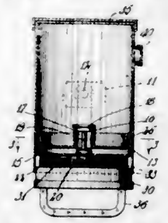
1. In an electrically-propelled vehicle, the combination with a plurality of driving induction motors suitably associated with the vehicle wheels, of a plurality of alined oppositely-acting solenoids connected with the respective main rotors, and means dependent upon an unbalancing of the solenoid effects to vary the rotor-circuit resistance of the corresponding motor.

1,475,824. MECHANICAL COURSING DEVICE. FRED T. HERBERT, Sr., Wyoming, Del. Filed Nov. 20, 1922. Serial No. 602,238. 3 Claims. (Cl. 46—73.)



1. In a mechanical coursing device, a motorcycle, a rod swivelled thereon and extending laterally therefrom, means holding the rod for lateral movement with respect to the motorcycle, means adjusting the rod at vertical angles with respect to the motorcycle, a ground wheel journaled on the rod, a figure representing an animal pivotally supported above the wheel, spring means holding the figure in one position, and means between the figure and wheel for swinging the former to a second position on the turning of the latter.

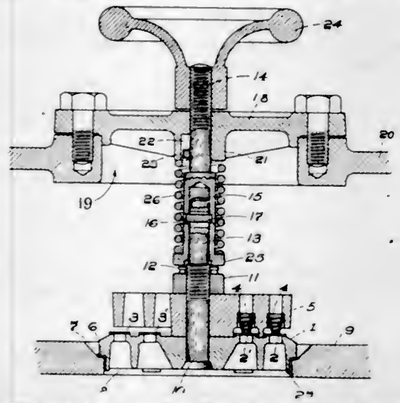
1,475,825. PROTECTIVE LIQUID HOLDER. LOUIS HETU, Woonsocket, R. I. Filed May 7, 1923. Serial No. 637,160. 7 Claims. (Cl. 221—114.)



1. A device of the class described comprising a container having a discharge opening at one end, an annular flange surrounding said opening and providing a measuring compartment, valves adapted to operate inversely in unison for controlling inlet and discharge ends of said measuring compartment, and a distributing element fixed to the valve controlling the discharge end of the said compartment.

2. A device of the class described comprising a container having a discharge opening at one end, an annular flange surrounding said opening and providing a measuring compartment, valves adapted to operate inversely in unison for controlling inlet and discharge ends of said measuring compartment, and a distributing element fixed to the valve controlling the discharge end of the said compartment, said distributing element being in the form of a disk having perforations spaced over the area thereof.

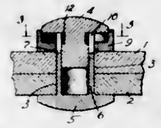
1,475,826. VALVE FOR AIR PUMPS AND MEANS FOR ACTUATING SAME. LEON F. HOFFMAN, Franklin, Pa., assignor to Chicago Pneumatic Tool Co., New York, N. Y., a Corporation of New Jersey. Filed Dec. 5, 1922. Serial No. 605,061. 15 Claims. (Cl. 251—119.)



1. The combination with the cylinder of an air pump having a valve-port formed through the wall thereof and a valve-seat formed upon said wall surrounding said port, of a valve organization arranged to be actuated into cooperative relation to said port by being seated upon said seat so as to be yieldably retained in said relation, also to be both automatically and manually actuated out

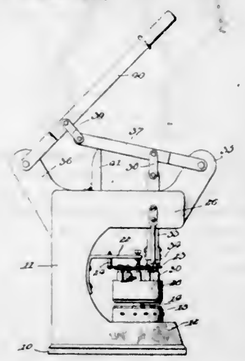
of said relation; actuating means for said organization comprising in combination, a universal joint carried by said organization, a compression spring arranged to actuate said organization into said cooperative relation to said port through the medium of said universal joint and to yieldably retain said organization in said relation, a stem connected to said organization through the medium of said universal joint for the purpose of actuating said organization out of said cooperative relation, and manually-operable means carried by said stem to effect the actuation of said organization out of said cooperative relation, to said port.

1,475,827. SECURING DEVICE. LEO J. HOGARTY, Brooklyn, N. Y. Filed Jan. 17, 1922. Serial No. 529,971. 8 Claims. (Cl. 85—40.)



1. A securing device comprising a male element, including a head and a solid shank, and a female element including a head and a hollow shank receiving the solid shank, a washer receiving the hollow shank, and means whereby advancement of the heads toward each other upsets the open end of the hollow shank and clamps the same between the head of the male element and the washer.

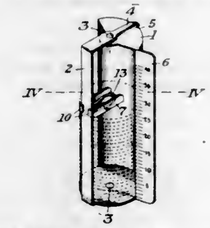
1,475,828. PUNCHING MACHINE. HARRY A. HOLMES, Aurelia, Iowa. Filed July 8, 1922. Serial No. 573,573. 7 Claims. (Cl. 164—91.)



1. A machine of the character described comprising a base, a frame mounted thereon, a vertical shaft journaled in the frame, a die carrier rotatably mounted on the shaft, a punch carrier rotatably mounted upon the shaft above the die carrier, dies carried by the die carrier, punches carried by the punch carier, a stationary track mounted above the punch carrier and supporting the punches in normally elevated position, said track being provided with an opening, and a lever actuated plunger movably mounted in the frame and adapted to be projected through the opening in the track, said plunger carrying means engageable with a selected punch.

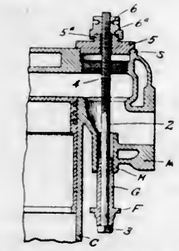
1,475,829. COIN HOLDER. EUGENE E. IHRIG and WILLIAM H. SCHNEIDER, Pittsburgh, Pa., assignors to Unit Coin Device Manufacturing Corporation, Pittsburgh, Pa., a Corporation of Delaware. Filed Jan. 24, 1923. Serial No. 614,590. 13 Claims. (Cl. 133—9.)

1. A coin holder comprising a coin-holding body member having a detent, and a coin-retaining swinging bar secured thereto and having a spring tongue fitting into the detent when the bar is in its coin-retaining position and extend-



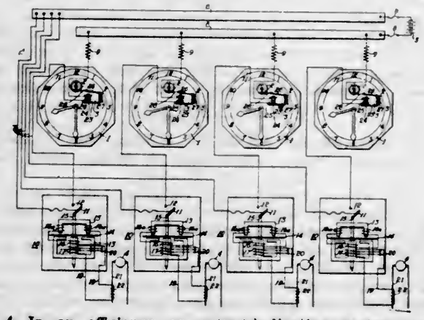
ing beyond the detent and body member to be readily engaged by the finger of the user and lifted from the detent, substantially as described.

1,475,830. DEVICE FOR REPLACING VALVE-STEM GUIDES FOR AUTOMOBILES. WILLIAM P. JAMESON, Santa Ana, Calif. Filed May 25, 1922. Serial No. 563,714. 2 Claims. (Cl. 29—88.2.)



1. A device for assembling a poppet stem guide in its final position in a manifold of an internal combustion engine, said device consisting of an elongated drag shank adapted to be passed through the manifold and guide receiving portion and upon which shank the guide is adapted to be supported, and means for pulling the shank with the applied guide into seating position for the guide, said means consisting of a supporting bridge member applicable to the usual cap seat in the manifold for a respective port and having a recessed rim to fit said port, and means rotatably supported thereon and operatively engaging said shank so that upon relative rotation as to the supporting member the shank will be shifted axially.

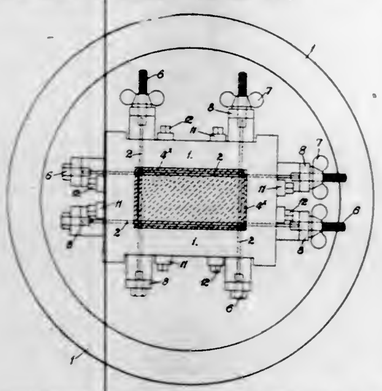
1,475,831. MEASURING DEVICE. CHARLES W. JOHNSON and THEODORE ABTMEYER, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 13, 1920. Serial No. 358,376. 8 Claims. (Cl. 161—21.)



4. In an efficiency or output-indicating system, the combination with an electrically-driven machine adapted

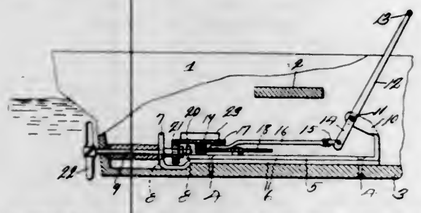
for periodic operation, of means controlled by the circuit of said machine and responsive to the operation thereof for indicating the duration of working loads thereon.

1,475,832. MANUFACTURE OF BRICKS. FREDERIC P. JONES, Seacombe, England. Filed May 9, 1923. Serial No. 637,823. 9 Claims. (Cl. 25—17.)



1. The manufacture or production of bricks or blocks of the kind referred to, characterized by separating an unbroken slice of the full surface dimensions from the formed body and then reuniting the severed slice to the body by a pressing means capable of simultaneously ornamenting the surface of the slice.

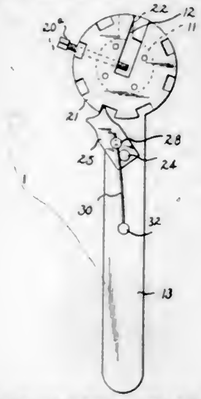
1,475,833. BOAT-PROPELLING DEVICE. CLIFFORD A. JOYNER, Muncie, Ind. Filed June 26, 1923. Serial No. 647,934. 1 Claim. (Cl. 115—24.)



A manually operated motor for small craft, said motor comprising an elongated bracket adapted to be secured to a boat, spaced arms carried by the rear end of said bracket, a propeller drive shaft mounted in bearings of said spaced arms, a gear carried by the propeller drive shaft and disposed between the spaced arms, a gear train carried by said bracket and geared to the gear carried by the propeller drive shaft between the spaced arms, the forward end of said bracket being provided with upwardly and rearwardly extending arm, an operating lever pivotally connected to said arm and a pitman connection between the operating lever and a gear of the gear train.

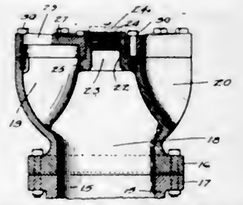
1,475,834. SPOKE WRENCH. WALTER EDWIN KADOW, Puyallup, Wash. Filed Feb. 10, 1923. Serial No. 618,341. 2 Claims. (Cl. 81—60.)

1. A wrench comprising an elongated handle carrying a circular head formed with a circular opening and a slot communicating therewith, a rotatable head including disks located at the sides of said stationary head and further including an intermediate disk bearing within said circular opening, said disks being secured together and formed with registering slots adapted to register with said first named slot, one of said disks being formed with notches to constitute a ratchet, and a pawl carried by the handle and engageable with said notches, said pawl consisting of a plate pivoted at one end upon the handle and having its other end formed with two teeth, a stand-



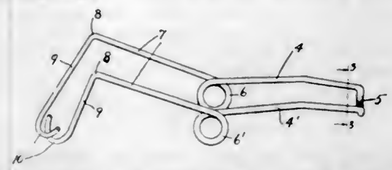
ard carried by the plate and formed with a slot, and a leaf spring secured at one end upon the handle and slidably passing through said last named slot.

1,475,835. DRAFT-CONTROL STRUCTURE FOR LOCOMOTIVE ENGINES. RUDOLPH H. KAUTZKY, Des Moines, Iowa. Filed May 21, 1923. Serial No. 640,408. 2 Claims. (Cl. 110—157.)



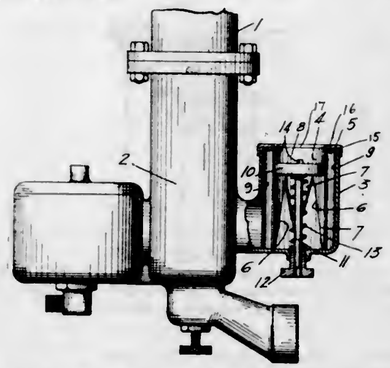
1. In a structure of the class described, the combination of a locomotive having a smoke box at its front end, a stack above the smoke box, and an exhaust stand, with an exhaust head having a passage communicating with the stand, and a plurality of spaced passages leading upwardly through said exhaust head, said spaced passages being arranged in a circle of desired diameter spaced evenly from each other, a cover plate for said exhaust head having orifices arranged over said spaced passages and directed at a desired angle in accordance with the size of the stack, and a draft regulator mounted on the side of the smoke box for controlling the admission of air thereto.

1,475,836. SPRING CRANK HOLDER FOR AUTOMOBILES. CHARLES A. KELLOGG, Los Angeles, Calif. Filed Sept. 29, 1922. Serial No. 591,304. 4 Claims. (Cl. 74—33.)



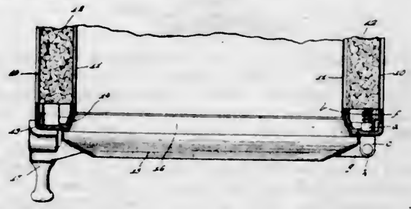
1. A crank-holding device consisting of resilient side bars having rearwardly bent ends with hooks adapted to grapple about a bracket element of an automobile and having forwardly sprung shanks with a crank-receiving end portion.

1,475,837. AUXILIARY AIR-INLET VALVE FOR CARBURETORS. WILLIAM E. KENT, Los Angeles, Calif. Filed Aug. 22, 1921. Serial No. 494,341. 5 Claims. (Cl. 251—144.)



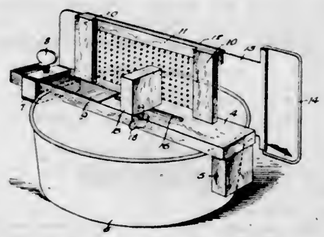
1. The combination with a carburetor, of an air inlet valve comprising a cylinder, tapering openings in the wall of said cylinder, a piston in said cylinder, a guide rod extending from said piston, an adjusting nut adapted to slidably receive said rod, a spring on said rod, and means for limiting movement of said piston in one direction.

1,475,838. HINGE FOR OVEN DOORS. JOSPEH F. LAMB, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Original application filed Apr. 2, 1921, Serial No. 458,105. Divided and this application filed Aug. 1, 1922. Serial No. 578,981. 4 Claims. (Cl. 126—194.)



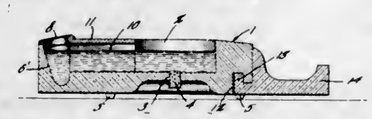
1. In combination, a frame, a door, a hinge member to which said door is pivoted and slidably mounted in said frame, and resilient means urging said member in a direction to bring said door and frame in contact.

1,475,839. VEGETABLE GRATER. LOUIS LEITMAN, Mount Vernon, N. Y. Filed Apr. 18, 1923. Serial No. 632,976. 1 Claim. (Cl. 146—148.)



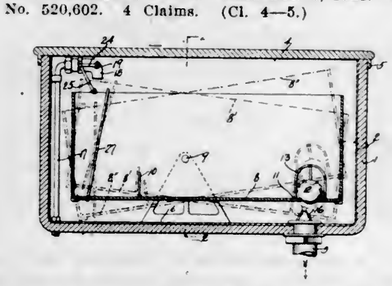
In a vegetable grater, a base of elongated formation capable of being supported upon the rim of a receptacle and having its ends projecting beyond said rim, a frame supported by said base and including upright end pieces and a cross piece connecting the upper ends of said end pieces, opposed guide members one of which is carried by one longitudinal edge of said base and the other by said cross piece, a grating element movable in said guide members and longitudinally of said base, an abutment adjustably carried by said base and cooperating with one of said end pieces to retain a vegetable on said base in operative relation to said grating element, an end section fixed to one end of said base and engageable with the side wall of said receptacle, and means positioned at the opposite end of said base and adjustable longitudinally thereof to engage said side wall at a diametrically opposite point from said end section whereby to prevent movement of said base with respect to said receptacle in the direction of movement of said grating element.

1,475,840. INKWELL. FREDRICK C. LUETHI, Stoughton, Wis., assignor of one-half to Arthur T. C. Olsen, Stoughton, Wis. Filed Nov. 24, 1922. Serial No. 603,020. 1 Claim. (Cl. 120—4.)



An ink well base having an ink reservoir mounted thereon and provided in its lower face with a recess, and a tray having an upstanding hook for interlocking engagement with said recess to hold the tray in operative position.

1,475,841. FLUSH TANK. DENNIS MCNEILL, Huntington, W. Va., assignor of one-third to Frank C. Wallace, Huntington, W. Va. Filed Dec. 7, 1921. Serial No. 520,602. 4 Claims. (Cl. 4—5.)

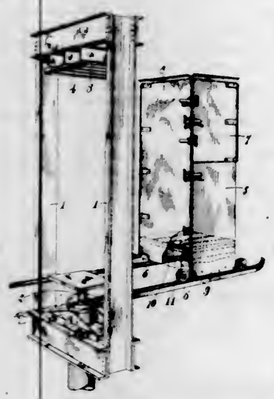


1. In a flush tank, a tilting water receptacle adapted to tilt in one direction by gravity when filled, a valve controlled outlet for partially emptying the receptacle when the latter is tilted, manually operable means normally holding said receptacle against gravitational tilting, a water trap in said receptacle containing water, and acting as a counter-balance to tilt the receptacle in the other direction when it is partially emptied, means whereby this last mentioned tilting of the tank causes flooding of the same, said means including an inlet pipe, a valve in the pipe, a crank shaft in the pipe and with which the valve stem is connected, and means for connecting the crank shaft with the receptacle.

1,475,842. PACKING AND PRESERVATION OF PEANUTS. ALFRED WILLIAM MACILWAINE, Yorkshire, England. Filed Aug. 9, 1921. Serial No. 490,899. 7 Claims. (Cl. 99—11.)

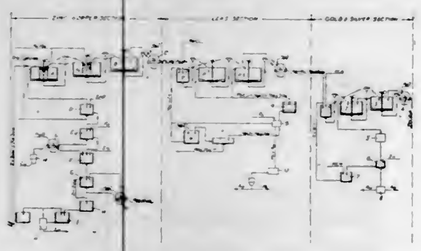
2. A method of preserving pea-nuts and preparing them for transportation, which consists in compressing quantities of said nuts in bulk in their shells under a pressure insufficient to express any of the contained oil

from the kernels but sufficient to form the nuts into a coherent block without fracture of any considerable proportion of the kernels.



6. As a new product, a coherent block of pea-nuts in which the kernals are whole and are free from oil on their exterior and in which the shells are collapsed around the kernels.

1,475,843. PROCESS FOR TREATING ORES. HENRY SQUAREBRIGS MACKAY, London, England. Filed Nov. 20, 1922. Serial No. 602,157. 3 Claims. (Cl. 75—15.)

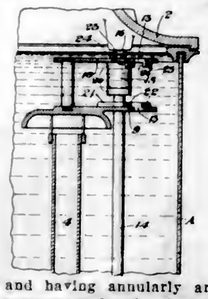


1. In a continuous process for extracting lead from ore which consists in first converting the lead to lead sulphate next leaching the resulting ore with a chloride solution to extract the lead in solution from the ore, continuously precipitating the lead from the solution on a metal such as iron in such a manner that the solution cannot become saturated with the lead from the ore to such an extent that it will lose its efficiency as a solvent, and continuously employing the resulting solution to leach more ore containing lead sulphate.

1,475,844. LIQUID-MEASURING APPARATUS. GEORGE W. MACKENZIE, Beaver, Pa., assignor to Guarantee Liquid Measure Company, Rochester, Pa., a Corporation of Delaware. Filed Jan. 17, 1920. Serial No. 352,015. 9 Claims. (Cl. 221—100.)

2. Locking mechanism for a liquid measuring apparatus of the class shown consisting of a vertically maintained rising and falling float, a vertically and annularly movable element having locking abutments for engagement by the top and bottom of the float, and means for locking the movable element at varying heights.

4. In a liquid measuring apparatus having a vertically and rotatably movable supply and return conduit, a vertical guide rod, a freely movable float thereon, float-engaging plates connected with the conduit extending below and above the float in slotted engagement with



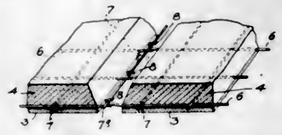
the guide rod and having annularly arranged locking abutments for engagement by the float, and means for locking the conduit at varying heights.

1,475,845. COMBINED FAN AND LAMP. RANDOLPH L. MARIANI, Philadelphia, Pa. Filed Aug. 5, 1922. Serial No. 579,853. 2 Claims. (Cl. 240—2.)



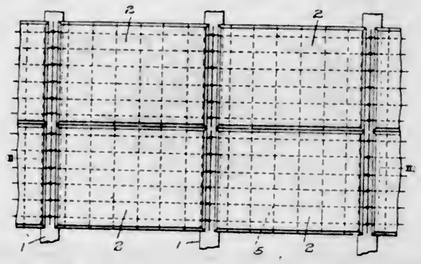
2. In a device of the character described, the combination of a base, a pedestal thereon, a clustered series of electrically energized lights on said pedestal, electrical conductors connecting said lights with a source of electrical energy, a vertically adjustable member mounted on said pedestal, means to lock said member in adjusted relation to said pedestal, a light reflecting and air deflecting member mounted above said light on said adjustable member, a supporting frame mounted on and extending above said reflector-deflector member, a motor driven fan mounted on said framework and above said deflector member, an electrical conductor connecting said motor with a source of electrical energy, a switch means in said base adapted to control said motor for varying speeds, a non-transparent perforated screen removably mounted on said deflector member adapted to conceal and encase said fan and motor but permit the free passage of air currents therethrough.

1,475,846. ROOF OR FLOOR CONSTRUCTION. HERBERT E. MARKS, Glen Osborne, Sewickley, Pa. Filed Dec. 15, 1922. Serial No. 607,019. 6 Claims. (Cl. 108—65.)



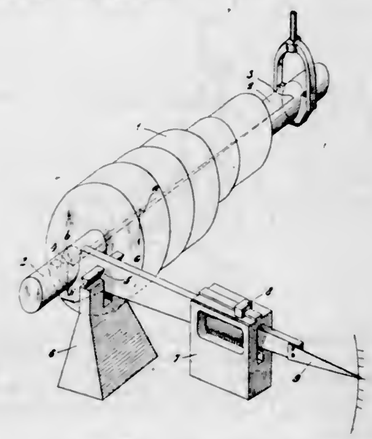
1. A slab for roof or floor constructions comprising a lower layer of plaster or gypsum, a body of strong cementitious material molded directly to said gypsum layer, and metal reinforcement embedded in the tension zone of said body.

1,475,847. ROOF OR FLOOR CONSTRUCTION. HERBERT E. MARKS, Glen Osborne, Sewickley, Pa. Filed Dec. 15, 1922. Serial No. 607,020. 5 Claims. (Cl. 108—65.)



1. A slab for roof or floor constructions comprising a plaster or gypsum board forming its lower face, and a body of bitumastic material molded thereto and integral therewith.

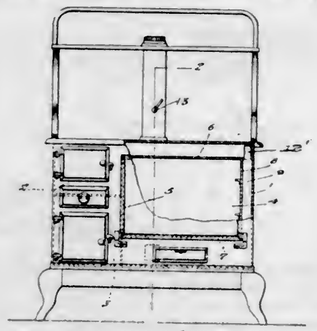
1,475,848. METHOD OF DETERMINING THE POSITION OF THE CENTER OF GRAVITY OF ROTARY BODIES WITH RESPECT TO THE AXIS OF ROTATION. WILLIAM HAMILTON MARTIN, Flushing, Netherlands. Filed Aug. 1, 1918. Serial No. 247,896. 2 Claims. (Cl. 73—51.)



1. The combination of a supporting means and a balance lever spaced apart, a fulcrum for the balance lever, means for supporting a rotary body on said supporting means and one end of the balance lever with the axis of said body at right angles to the lever, and at a fixed distance from the lever fulcrum, and means associated with said lever for determining the unbalanced condition of said body with relation to its axis of rotation.

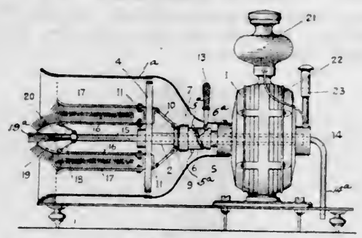
1,475,849. STOVE. EUGENE EMMETT MASON, Atlanta, Ga. Filed Oct. 18, 1921. Serial No. 508,455. 1 Claim. (Cl. 126—1.)

A stove of the class described comprising an oven spaced from the body of the stove to form horizontal flues and a vertical flue which connects the two horizontal flues together, one horizontal flue being arranged above the oven and the other below the oven, a chimney flue connected with the lower horizontal side adjacent its closed end, a horizontal flue at the top of the stove at the rear thereof, the rear of the stove having an opening therein which is located at the junction of the vertical flue with the upper horizontal flue and connects these flues with the horizontal flue at the rear of the stove, a pipe on the top of the stove for connecting the rear



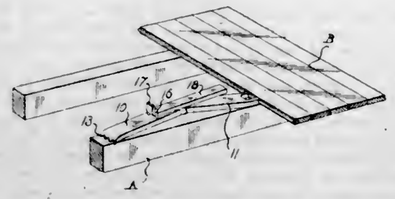
flue and the chimney flue with the chimney and a damper in said connecting pipe for controlling communication thereof with the rear horizontal flue and with the chimney flue.

1,475,850. RECEPTACLE-WASHING MACHINE. VILLAGLORI MEDICI, Genoa, Italy. Filed Mar. 1, 1921. Serial No. 448,955. 4 Claims. (Cl. 15—75.)



1. In a receptacle washing machine, a rotatable driving element, supporting members mounted for adjustment radially of the driving element, a pair of cleaning elements carried by each supporting member adapted to engage the interior and exterior of the receptacle, and means for adjusting the supporting members during rotation of the driving element.

1,475,851. FLOOR CLAMP. RICHARD E. MORGAN, Orlando, Fla. Filed Oct. 30, 1922. Serial No. 597,926. 2 Claims. (Cl. 254—15.)



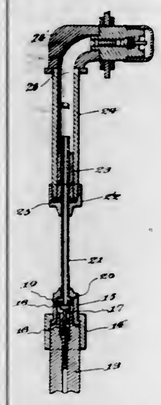
1. A floor clamp of the character described, comprising a pair of hingedly connected bars, one bar terminating in penetrating prongs and the other being formed for engagement with an edge of a floor board, a staple member rising from one bar, and a lever having one end hooked and detachably engaged with said staple, the lever engaging upon the hinge connection of the bars whereby upon the exertion of downward pressure upon the lever the bars will be forced into the same plane.

1,475,852. MOTOR-VEHICLE TOP. ALEXANDER MORRIS and EDWARD H. HOUTZ, San Francisco, Calif. Filed Feb. 25, 1922. Serial No. 539,297. 4 Claims. (Cl. 296—47.)



1. The combination with a motor vehicle, of a top built upon the body of said vehicle, said top having upper and lower frame members upon each side thereof; side-lights slidably mounted between the upper and lower frame members; springs secured within the upper frame members; guide members mounted within the upper frame members and engaged by the springs; a roller mounted between each spring and the upper frame members; and means for advancing the rollers simultaneously between the springs and the upper frame members to depress the springs and the guide members engaged thereby against the sidelights whereby said side-lights may be resiliently locked in any desired positions.

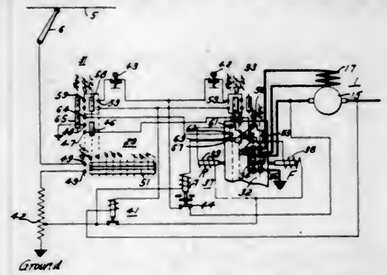
1,475,853. TIRE-INFLATING NIPPLE. ARTHUR MULL, Chicago, Ill. Filed June 18, 1921. Serial No. 478,636. 1 Claim. (Cl. 152—12.)



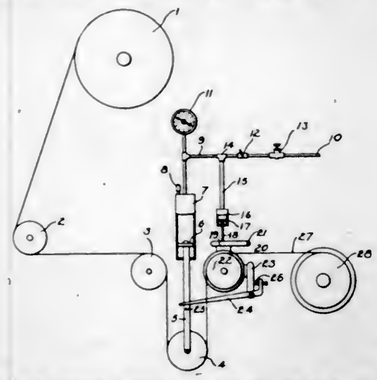
The combination with the valve stem of a tire, the valve rod therein, a flanged cap on the valve stem, a hollow tube having flanged end retained within the cap and a centrally apertured washer on said flanged end, of a plate of a width less than the internal diameter of the said cap and disposed within the cap against the aperture of the washer and having a stem engaging on the rod of the valve to depress the same against the spring thereof, said plate being movable away from the aperture of the washer by air pressure driven through the said hollow tube whereby air will pass around the longer sides of the plate.

1,475,854. MOTOR-CONTROL SYSTEM. HENRY D. MURDOCK, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 5, 1921. Serial No. 449,646. 10 Claims. (Cl. 172—179.)

2. The combination with a motor, of a source of electrical energy, a switch for connecting said motor to said source, means for reversing the direction of operation of said motor, and means governed by said switch and the electrical condition of said motor for preventing the operation of said reversing means during the period that the energization of said motor is greater than a predetermined value, and means for rendering said preventing means inoperative during emergency conditions.

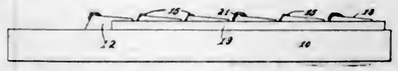


1,475,855. TENSION DEVICE FOR ARMATURE BANDING. HENRY D. MURDOCK, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 24, 1921. Serial No. 472,193. 16 Claims. (Cl. 242—8.)



4. In a tension device for banding the ends of armature coils, a tension-maintaining and slack-adjusting means comprising a wheel, a supporting piston rod therefor, a piston, a cylinder, means for providing air pressure in said cylinder and means for automatically regulating said pressure.

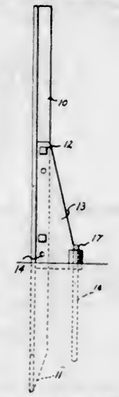
1,475,856. EGG-TURNING TRAY. WARREN J. MUSCH, Hartford, Kans. Filed Oct. 2, 1922. Serial No. 591,898. 2 Claims. (Cl. 119—44.)



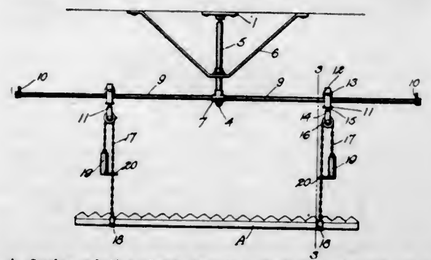
1. An egg turning tray comprising a rectangular frame, a plurality of holders pivoted within said frame, and bars pivotally connected with said holders and movable longitudinally whereby to tilt the holders in one direction or the other, each holder consisting of a cage like structure including end plates and spaced connecting bars, and coil springs carrying hooks slidably engaged upon said last named bars and designed to space the successive eggs apart.

1,475,857. POST. HILDA NEUHAUS, Milford, Iowa. Filed Dec. 4, 1922. Serial No. 604,930. 2 Claims. (Cl. 189—29.)

1. The combination with a fence post, of a reinforcing member provided with an eye spaced from the post, means for adjustably securing the member to the post, whereby the lower edge of said member may be engaged with the ground and a pin adapted to be driven through the eye into the ground.



1,475,858. SICKLE HOLDER. LUTHER A. NORLAND, Sanford, Colo. Filed Aug. 28, 1922. Serial No. 584,897. 1 Claim. (Cl. 51—223.)



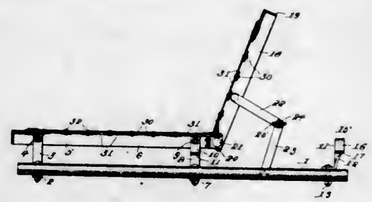
A device of the character described including a plate adapted to be secured to the ceiling of a structure, a rod depending from the plate, a tube arranged on the rod for a rotary movement, a V-shaped bracket receiving the tube and having its ends secured to the ceiling, a horizontal tubular standard carried by the lower end of the rod, stops at the opposite ends thereof, carriages movable on the tubular standard, flexible elements carried by the carriages, clips carried by one end of each of the flexible elements for engagement with an object to be supported and weights provided with eyes and secured on the opposite ends of the flexible elements and having slidable engagement with the flexible elements through the medium of the eyes.

1,475,859. PLAITED CABLE SLING. CHARLES NYMAN, Pittsburgh, Pa., assignor of one-half to Donald Murray, Wilkinsburg, Pa. Filed Sept. 1, 1922. Serial No. 585,824. 22 Claims. (Cl. 96—25.)



15. The method of making a plaited cable sling with eyes at its ends, including the forming of a plurality of double strands and plaiting them into a cable sling, and forming the eyes of loops connecting the strands to each other, substantially as described.

1,475,860. BED BOTTOM. MARY A. OLIVER, Johnson City, Tenn. Filed Nov. 20, 1922. Serial No. 602,105. 1 Claim. (Cl. 5—72.)



A bed bottom including spaced rails, metal strips secured to and spacing the rails, certain of said strips having upstanding ends and reinforcements for said ends, a spring frame including a fixed section connected to the ends of the mentioned strips, a swinging section pivotally secured to the fixed section, each of said sections comprising angle irons, the strip disposed below the swinging section having its upturned ends arranged at an inward angle and from thence bent downwardly to the connecting portion for said strip to provide rests for the horizontal flange of the swinging frame section to sustain the same in alignment with the fixed section, and means between the sides of the swinging section and the rails for sustaining the swinging section at an angle with respect to the fixed section.

1,475,861. SUCKER-ROD REMOVER. ERNEST PACE, Wirt, Okla. Filed Dec. 28, 1922. Serial No. 609,450. 3 Claims. (Cl. 294—102.)

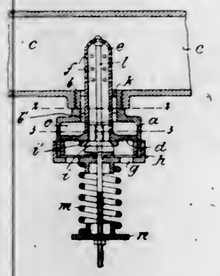


1. In a tool of the character specified, a friction grip comprising a head, a jaw at one side of the head and in line therewith and increasing in thickness towards its outer end, a complemental movable jaw, and an intermediate wedge between the two jaws.

1,475,862. AUXILIARY AIR INLET FOR INTERNAL-COMBUSTION ENGINES. PAUL CARL JEAN PAFFRATH, Altenburg, Germany, assignor of two-thirds to Richard Pochwadt and Arno Gunzel, both of Altenburg, Germany. Filed May 25, 1922. Serial No. 563,741. 3 Claims. (Cl. 48—180.)

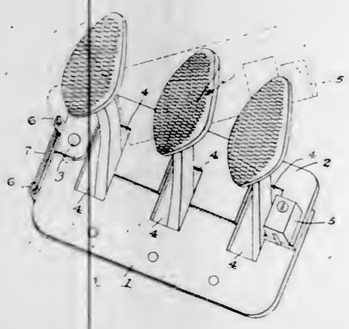
3. The combination with the intake conduit of an internal combustion engine, of a device for supplying aux-

iliary air to the combustible mixture flowing therethrough, comprising a cylinder having a reduced neck attached to said conduit and opening therein, a piston in said cylinder formed with a central hollow member projecting through said neck into said conduit and having a plurality of small openings in that part which projects in said conduit, said member forming with said neck an annular passage between said conduit and cylinder, the



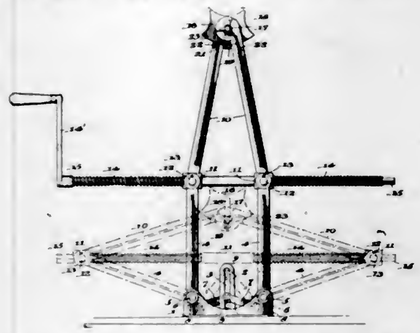
bore of said hollow member extending through said piston and terminating in an annular valve face, a perforated cap on said cylinder having a central boss forming a seat for said valve face, a stem attached to the upper end of said hollow member passing axially therethrough and through said boss and cylinder cap, an abutment on said stem, and a coil spring between said abutment and cylinder cap.

1,475,863. PEDAL LOCK. THOMAS JACKSON PATE, Fort Smith, Ark. Filed Mar. 25, 1922. Serial No. 546,868. 1 Claim. (Cl. 70—126.)



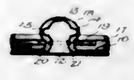
An automobile lock of the character described comprising a plate adapted to be secured to the floor board of the automobile and being provided with a plurality of slots of the same size, a second plate pivotally secured to the first mentioned plate and being provided with slots corresponding in number with the slots of the first mentioned plate but said slots of the last mentioned plate being of different sizes for the accommodation of the irregular position of the pedals of the automobile, said last mentioned plate being adapted to overlap the first mentioned plate with the slots so arranged to bring them in perfect transverse alignment, a tongue formed on the lower plate, a key operated lock carried by the upper plate and being operatively associated with the tongue, an ear formed on the hinged end of each plate and a spring having its ends carried by the respective ears to force the plates to an open position.

1,475,864. LIFTING JACK. NATHAN G. PERRY, Los Angeles, Calif., and CHARLES E. HULTING, Nogales, Ariz. Filed Sept. 14, 1921. Serial No. 500,639. 6 Claims. (Cl. 254—122.)



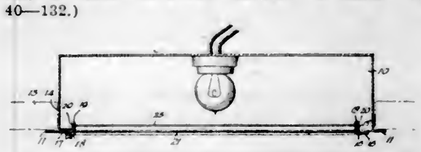
1. A lifting-jack including upper and lower toggles connected by trunnion-blocks and pivots, a screw operating therein, a head-block resting slidably upon the upper ends of the toggles, and means for guiding the head-block vertically in its movements with respect to the toggle.

1,475,865. HEAD AND SOCKET FASTENER. ROSA MARGUERITTE PETERS, New York, N. Y. Filed Oct. 11, 1922. Serial No. 593,878. 1 Claim. (Cl. 24—221.)



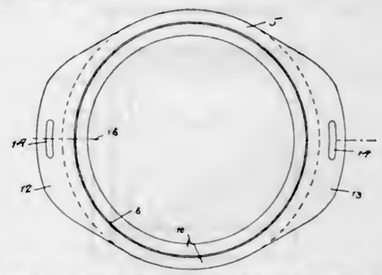
A head and socket fastener of the character described comprising a base plate having an upstanding shank, a head on said shank having oppositely extending projections, a mating plate having an upwardly extending rim, a socket on the mating plate having oppositely extending grooves to receive the projections on the head when the latter is inserted into the socket, slots extending through the socket in a plane parallel to the grooves, and a spring mounted within the rim of the mating plate having arms mounted through the slots in the socket for locking the head in the socket when the head has been inserted therein and turned to bring the projections thereon substantially at right angles to the grooves in the sockets.

1,475,866. HOUSE NUMBER AND STEP ILLUMINATOR. CLARENCE P. PETERSON, Brooklyn, N. Y. Filed May 8, 1923. Serial No. 637,534. 1 Claim. (Cl. 40—132.)



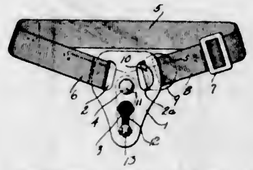
A combined house number and step illuminating device comprising a casing adapted to be fitted in the opening of a riser of a front step, a door hingedly mounted on the open front end of the housing, a transpicuous panel removably carried by said door having inscribed thereon digits representing the number of said house, illuminating means within the housing adapted to cast light rays through the panel for displaying the house number and simultaneously illuminating the step, and a colored transpicuous panel mounted in spaced relation in rear of the first panel for protecting said first panel from the heat of the illuminating means and for masking from view the interior of the casing.

1,475,867. CONCRETE-PIPE JOINT. EARL L. PETERSON, Corona, N. Y., assignor to United Concrete Pipe Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 10, 1920. Serial No. 402,642. 2 Claims. (Cl. 72—53.)



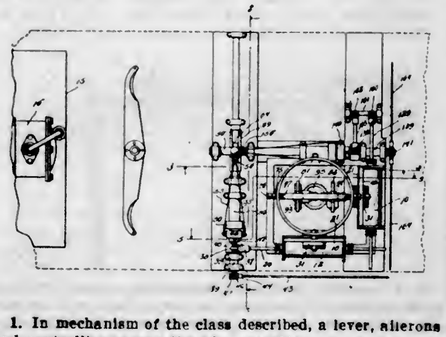
1. In a concrete pipe joint, co-operating bell and spigot pipe ends having their joint surfaces curved to form a ball joint, external flanges on the respective pipe ends and integral therewith, and draw-up bolts engaging said flanges and located on the same diameter of the pipe, said flanges being slotted to permit the draw-up bolts to work therein on flexion at the joint.

1,475,868. GARTER CONSTRUCTION. GUST WILLIAM PETERSON, Philadelphia, Pa., and JAMES P. YENETIS, Atlantic City, N. J. Filed Dec. 6, 1921. Serial No. 520,322. 1 Claim. (Cl. 24—245.)



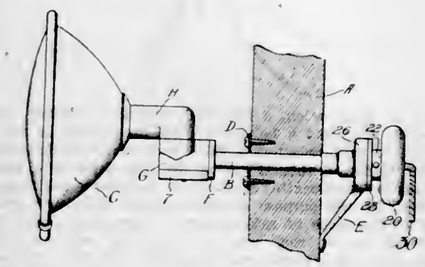
A garter construction which includes a pear-shaped clasp plate having the narrow end disposed normally downward, said plate having a pair of apertures at its upper opposite corners to receive limb-encircling fabric or elastic and also having a tapered aperture near its lower end, as well as a central aperture, a tab of heavy flexible material, having a projecting head on each end, the head on one end of which is disposed in the central aperture, the body portion of the tab being disposed along the rear face of the plate, and the projecting head on the other end of the flexible tab extending into the tapered slot to grip the fabric therein.

1,475,869. AUTOMATIC STABILIZER FOR AEROPLANES. HARRY A. PETRIE, Harrisburg, Pa. Filed July 22, 1921. Serial No. 486,753. 13 Claims. (Cl. 244—29.)



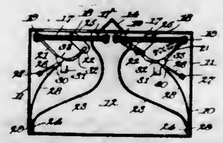
1. In mechanism of the class described, a lever, ailerons and controlling means therefor operable upon the manual operation of the lever, elevators and controlling means therefor operable upon the manual operation of the lever in another direction, and automatic means governing the operation of the controlling means for the ailerons and elevators, said automatic means including cylinders perpendicular to each other, valves having their axes perpendicular to the respective cylinders, gyroscopes, and means for controlling the valves from the gyroscopes.

1,475,870. AUTOMOBILE SPOTLIGHT. ERNEST C. PFAFF, Chicago, Ill. Filed Oct. 16, 1922. Serial No. 594,677. 3 Claims. (Cl. 240—61.)



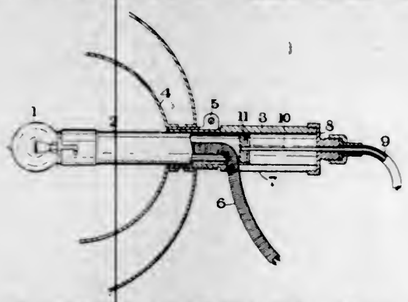
1. In combination with a fixed support having an opening therethrough, a spot light comprising an arm slidably mounted for rotation within the opening and extended away from the support, a bracket in which the arm is journaled, a housing associated with the bracket, a clutch plate mounted fast on the arm and disposed within the housing, stop means against which the clutch plate is adapted to rest, a spring within the housing exerting pressure on the clutch plate such as to hold the latter against the stop means whereby the normal longitudinal position of the arm is determined, a light movably mounted on the outer arm end, an operating wheel having a releasable connection with the clutch plate and adapted both to shift the arm endwise and to rotate the same through the medium of the clutch plate, means for preventing rotation of the clutch plate and arm associated therewith except when the latter is shifted endwise against the tension of the spring, and a further connection between the wheel and the light adapted to move the latter independently of any movement of the arm, substantially as described.

1,475,871. ANIMAL TRAP. FRANCIS HENRY PHILLIPS, Old Westbury, N. Y. Filed July 15, 1922. Serial No. 575,426. 8 Claims. (Cl. 43—77.)



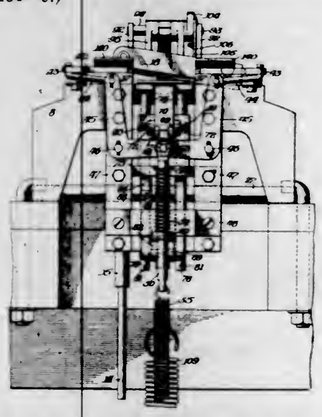
6. A trap comprising a plurality of closely associated similar units, each of said units comprising trap-plates supported for movement in which the opposing edges of the trap-plates come close together in their normal relationship and which edges become separated as they are moved from their normal relationship increasing the separation as they move from their normal relationship, means connected to and causing the trap-plates to move together, and means which coact with the first means for limiting the movement of the trap-plates in one direction and for variably limiting the movement thereof in an opposite direction and allowing the movement of said trap-plates in opposite directions.

1,475,872. HEADLIGHT AND THE LIKE. FREDERICK GEORGE PIPER, Winchester, England. Filed Aug. 15, 1922. Serial No. 582,084. 3 Claims. (Cl. 240—44.)



1. In combination, a headlight having a reflector, an electric lamp and a holder for said lamp, slidable relatively to said reflector, a solid wire connected to said lamp holder, a tubular casing for said solid wire and means for reciprocating said wire to reciprocate said lamp holder for the purpose of shifting said lamp into and out of the focus of said reflector, comprising a slotted cylindrical push rod, means for securing said wire to said push rod, a sleeve containing said push rod, a screw on said sleeve entering the slot in said push rod, and means for securing said tubular casing to said sleeve, substantially as and for the purpose hereinbefore set forth.

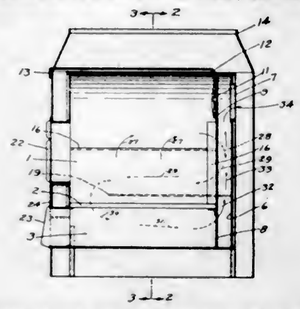
1,475,873. BEAD-SPLICING MACHINE. EDWARD D. PUTT, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 29, 1918. Serial No. 225,445. 27 Claims. (Cl. 154—9.)



3. In a machine for the purpose specified, the combination of a support for the bead, means for feeding a strip of covering material to the bead, means for severing the leading end of the strip, and applying members adapted to bring the severed end of the fabric about the bead and apply it thereto.

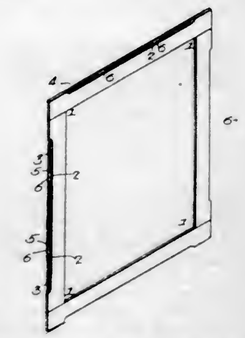
1,475,874. HOT-AIR HEATER. ALBERT C. PYLE and JOHN F. BREWER, Seattle, Wash. Filed Oct. 3, 1922. Serial No. 592,104. 1 Claim. (Cl. 126—99.)

A heater having a rectangular fire-box, a grate for burning either wood or coal, an ash pit under the grate, an ash door in the front of the pit, a fire door above the grate, fire brick lining at the sides and rear of the fire-box, air passages in the sides of the fire-box and ash pit, a central air passage at the rear leading to a flue at the top, a damper in the front of the air passage at the rear, legs supporting the fire-box and air passages so that an air space will be left under them; said fire-box and



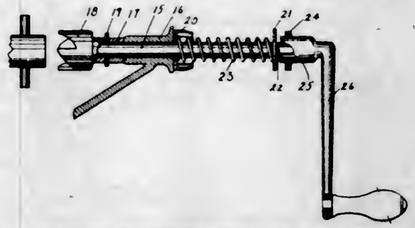
air passages having their walls constructed of sheet metal and their outer joints riveted and welded; and a chamber surrounding the fire-box and air passages with an opening in the rear through which a flue may be connected to the rear air passage and fire-box.

1,475,875. DISPLAY FRAME. PAUL B. RASH, Wilmington, Del. Filed Dec. 12, 1922. Serial No. 606,375. 2 Claims. (Cl. 40—155.)



1. The combination with an integral facing frame, of a backing frame having substantially the same dimensions as the said facing frame and comprising a plurality of sections independent both of each other and of the facing frame, and means for independently and detachably clamping the said sections to the facing frame.

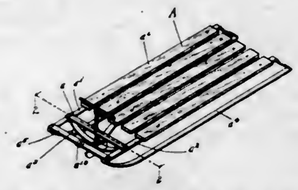
1,475,876. CRANKING MECHANISM. THORVALD RASMUSSEN, Los Angeles, Calif., assignor of one-half to Severin Th. Hansen, Long Beach, Calif. Filed Sept. 1, 1922. Serial No. 585,642. 5 Claims. (Cl. 74—33.)



1. A cranking mechanism comprising a shaft adapted to be supported in the usual crank case bearing, a ratchet cup carried by one end of the shaft, a locking collar mounted on the shaft and adapted to abut said crank

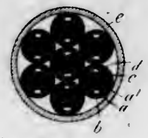
case bearing, a washer mounted on the shaft, a pin extending through the shaft for limiting the movement of the washer in one direction, a coiled expansible spring interposed between the locking collar and washer, a pin extending through the shaft adjacent the washer, and a crank handle adapted to engage the last mentioned pin.

1,475,877. SLED. JOHN G. REGAN, Newport, Ky. Filed Nov. 18, 1921. Serial No. 516,009. 2 Claims. (Cl. 280—21.)



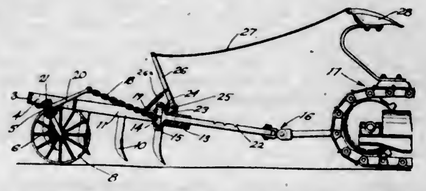
1. The combination of a sled, a cross bar, a band spaced from the cross bar, the bar and band having aligned vertical bores, a shaft mounted reciprocally in the bores, a rudder on the lower end of the shaft, a handle on the upper end of the shaft, a spring mounted on the shaft, the opposite ends of the spring abutting the band and the handle, and a slotted sleeve having a bore in alignment with the bores in the band and bar, the slot in the sleeve extending longitudinally of the sled and in which the rudder is adapted to seat.

1,475,878. MULTIPLE-WIRE CABLE FOR HIGH-FREQUENCY TELEPHONY AND TELEGRAPHY. LUDWIG REILLSTAB, Berlin-Nikolassee, Germany, assignor to Naamlooze Vennootschap de Nederlandsche Thermo-Telephoon-Maatschappij, Utrecht, Netherlands, a Corporation of the Netherlands. Filed Mar. 6, 1923. Serial No. 623,125. 2 Claims. (Cl. 173—81.)



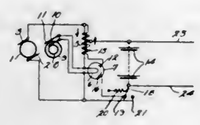
1. A multiple-wire double conductor cable, comprising a plurality of bundles placed one beside the other, each bundle being separately enclosed in a conductive sheath, each bundle comprising a plurality of double conductors.

1,475,879. EARTHWORKING MACHINE. JOSEPH S. REYNOLDS, Carpinteria, Calif. Filed Nov. 16, 1920. Serial No. 424,381. 4 Claims. (Cl. 97—75.)



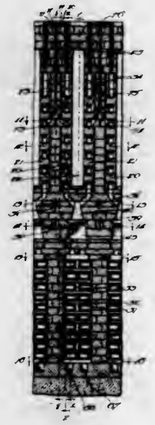
1. The combination in an earth working machine of a frame, earth engaging elements carried thereby, an axle journaled in said frame and having crank throws, wheels carried by said crank throws, a draw bar slidable relative to said frame, a lever extending from said axle, a connection between said draw bar and said lever for rocking the axle through the movement of the draw bar relative to the frame, and means operable from a point in advance of the machine for releasably locking the draw bar relative to the frame comprising a pawl pivoted and normally urged to engage the draw bar to lock the latter against sliding movement, means for urging the pawl into engagement with the draw bar, and flexible means extending to a point in advance of the machine and connected to said pawl to provide means for actuating the latter against said urging means.

1,475,880. CONTROLLING AND REGULATING SYSTEM FOR DYNAMOS. WILLIAM JOHN RICKETS, London, England. Filed May 21, 1920. Serial No. 383,194. 8 Claims. (Cl. 171—312.)



1. The combination with a dynamo electric machine, of a valve having a filament therein affected by current generated by said machine in a closed loop circuit including the filament one point of which circuit is connected to the negative pole of the dynamo.

1,475,881. COKE OVEN. ARTHUR ROBERTS, Evanston, Ill., assignor, by mesne assignments, to Chicago Trust Company, trustee, Chicago, Ill., a Corporation. Filed July 11, 1919. Serial No. 309,995. 29 Claims. (Cl. 202—9.)

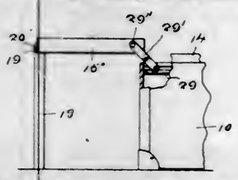


29. In a coke oven the combination of two heating walls each having on its interior a series of passages for the transfer of heating gases from its upper to its lower edge, a common passage for the collection of all the spent gases from the lower edges of both said walls, heat recovery devices in conjunction with said heating walls and no other heating walls, and connections from the collection passage aforesaid to said heat recovery devices, substantially as described.

1,475,882. TRUNK. KATHERINE L. ROBERTSON, Chicago, Ill. Filed Sept. 15, 1922. Serial No. 588,445. 4 Claims. (Cl. 190—11.)

1. In a device of the class described, a receptacle and a cover therefor, a table top proportioned to fit within

the cover, legs for supporting the top in front of the receptacle with one edge resting on the front wall of the



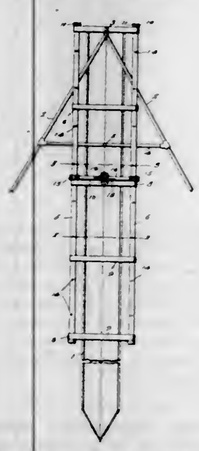
receptacle, and devices permitting swinging movement of the top with reference to the cover, and guiding the top in its movement to the front of the receptacle.

1,475,883. STOVE LIFTER. SAMUEL R. ROGERS, De Soto, Mo. Filed Nov. 18, 1922. Serial No. 601,801. 1 Claim. (Cl. 294—13.)



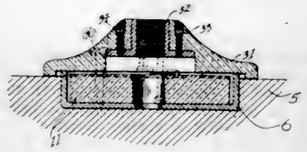
As an article of manufacture, a stove lifter as herein described, comprising a pair of arms having their confronting surfaces provided with reduced lapping ears which are pivotally connected, said arms being rounded away from each other from their pivot and extended to provide handles, each of which having downturned portions, a coiled spring received between and engaged by said downturned portions, the arms, in an opposite direction from their pivot being disposed in parallel relation and slightly out of contact with each other, and having their ends flattened, widened and rounded to provide jaws, and the outer jaw having its extremity rounded upwardly and the corners thereof formed with teeth, as and for the purpose set forth.

1,475,884. COMBINED FENCE POST AND STRETCHER. WILLIAM L. ROMBACK, Weston, W. Va. Filed Feb. 21, 1921. Serial No. 446,936. 1 Claim. (Cl. 256—42.)



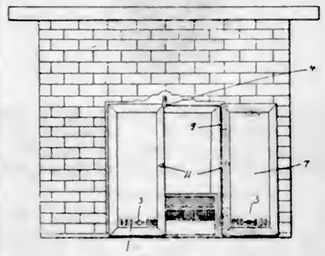
A combined fence post and wire tightener comprising a channel shaped post, a plurality of spaced V-shaped brackets having their inclined ends secured to the inclined portion of the channel shaped post, the ends of the brackets extending beyond the ends of the inclined portions of the post and terminally formed to provide a portion of an eye, a cross piece for each pair having their ends secured to the ends of each bracket and said ends of the cross pieces being designed to complete the eye, a pair of pipes provided with spaced perforations each of which being arranged parallel with the spaced edges of the inclined portions of the post and being trained through the adjacent eyes for a rotatable movement therein, a sprocket secured to each pipe intermediate of the ends thereof, each of which being adapted to lie in the same horizontal plane, a pair of spring held pivoted dogs adapted to engage the teeth of the sprockets and an eye bolt rigidly secured to the upper end of each pipe for the purpose specified.

1,475,885. FIXTURE DEVICE. DONALD A. ROSE, Berkeley, Calif. Filed Mar. 4, 1922. Serial No. 541,107. 1 Claim. (Cl. 173—329.)



In a device of the character described, the combination of an outlet box, lugs formed on the sides of said outlet box, an insulating member having cut-away portions on the periphery thereof, ledges formed on said insulating member, said insulating member being provided with openings therethrough, contacts secured on the exposed face of said insulating member, a cap adapted to overlie said outlet box and said insulating member, a bushing carried by said cap, said bushing being adapted to receive a light fixture, and contacts carried on said cap and adapted to engage said first mentioned contacts.

1,475,886. FIREPLACE CLOSURE. BEDFORD FRANK ROWE, Memphis, Tenn. Filed Mar. 12, 1923. Serial No. 624,407. 6 Claims. (Cl. 126—140.)

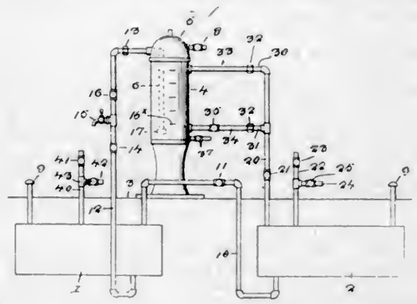


1. A fire place provided with permanently attached closure means comprising a frame surrounding the said fire place, doors, intermediate members, hinges connecting said members to the sides of the said frame, and hinges connecting the said members to the inner face of the said doors intermediate their width, whereby said doors may be moved from a position closing said opening to a position against the wall adjacent said fire place, with their faces outward.

1,475,887. DISPENSING APPARATUS. WILLIAM J. RUMP, Suedberg, Pa. Filed Nov. 21, 1919, Serial No. 339,749. 1 Claim. (Cl. 221—100.)

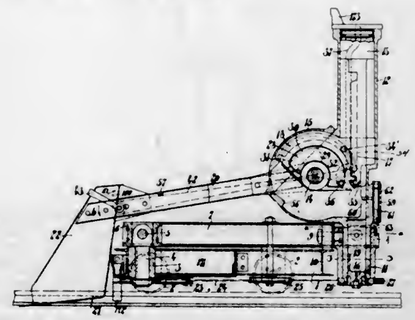
A liquid measuring and dispensing apparatus comprising a storage tank, an overflow tank, a valved pipe connecting the bottom of the overflow tank and the top of the storage tank, an elevated measuring vessel, a pipe connecting the bottom of the storage tank and the interior of the measuring vessel and having cut-offs spaced apart and a spigot located between the said spaced cut-offs,

and a pipe leading upwardly from the upper portion of the overflow tank and having lower and upper arms connected to the lower and upper portions, respectively,



of the measuring vessel and also having a valve in the lower arm and a valve in its major portion below said lower arm.

1,475,888. LOADING MACHINE FOR ORES AND THE LIKE. THORE ROBERT EUGEN RUNDQVIST, Stockholm, Sweden. Filed Jan. 4, 1922. Serial No. 527,022. 14 Claims. (Cl. 214—132.)

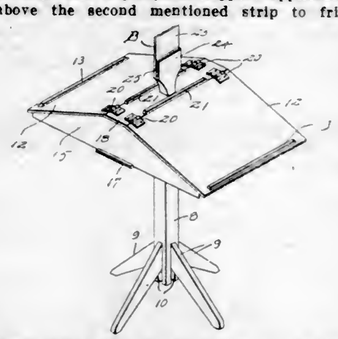


1. A machine for loading ores and the like into cars on mine tracks, comprising in combination a carriage frame, wheels for supporting said frame, another frame, pivotally mounted on said carriage frame to sweep horizontally thereover, an upstanding power motor, pivotally mounted at the free end of said other frame to rotate around a vertical axis in relation thereto, a horizontal crank shaft of said motor, arms attached to said shaft, and a bucket carried by said arms.

6. In a machine for loading ores and the like into cars on mine tracks, the combination with an upstanding cylinder, of a piston therein, means for introducing motive power on the upper side of said piston, a piston rod, a crank shaft, arms attached to said crank shaft, a bucket carried by said arms, and a connection between said piston rod and said crank shaft to cause the said bucket arms to swing upwardly upon the downward movement of the piston.

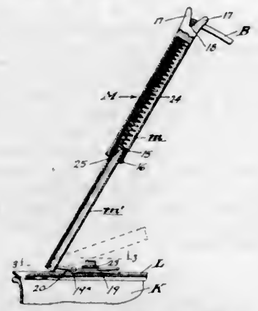
1,475,889. READING STAND OR DESK. JAMES H. RUSSELL, Oklahoma, Okla. Filed Oct. 5, 1921. Serial No. 505,493. 1 Claim. (Cl. 45—6.)

A stand of the class described having a pedestal, a pivot rod rising therefrom, a bottom, sides rising from said bottom, a strip spanning said bottom and secured to said sides, a strip above said strip and spanning said sides, said rod being swiveled in said bottom and the strip and extending above the upper strip, leaves on opposite sides of the rod hinged to the second mentioned strip, and a pamphlet support applicable to the rod above the second mentioned strip to frictionally



engage the same and said pamphlet support being engageable friction tight with the second mentioned strip to hold the top against rotation.

1,475,890. BAIL SUPPORT FOR COOKING VESSELS. ALTA M. SCHMUCK, Pasadena, Calif. Filed Mar. 30, 1922. Serial No. 548,035. 9 Claims. (Cl. 220—56.)



1. A bail support comprising members telescopically associated with each other, and means for urging one of the members to an extended position with relation to the other member.

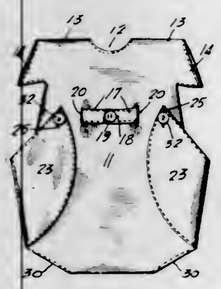
1,475,891. FISH STRING. JAMES L. SIMPSON, Waterloo, Iowa. Filed June 12, 1922. Serial No. 567,685. 2 Claims. (Cl. 224—7.)



1. A fish holder of the class described comprising a main flexible member, rings secured to said member and

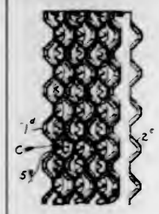
a number of short flexible members, means at each end of each short member for engaging a ring to form the short member in a loop to support a fish, the means at one end of each short member acting to thread the member through the mouth and gills of the fish.

1,475,892. GARMENT. HARRIETT G. SOHN, Hollywood, Calif. Filed Oct. 1, 1921. Serial No. 504,713. 4 Claims. (Cl. 2—144.)



4. The herein described garment formed from a single piece of material and comprising front and back sections, between which is formed a neck opening, sleeve forming members projecting laterally from the sides of the front and back sections, belt strap members projecting laterally from the sides of one section and adapted to be secured to each other, and to the other section, overlapping extensions on the sides of the front and back sections below the belt strap members, means for securing said overlapping extensions to the front and back sections, and means for securing the intermediate portions of the ends of the front and back sections to each other.

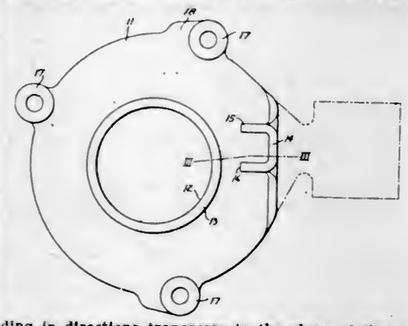
1,475,893. RADIATOR CORE. PHILMORE F. SPERY, Chicago, Ill. Filed Jan. 16, 1922. Serial No. 529,701. 6 Claims. (Cl. 257—130.)



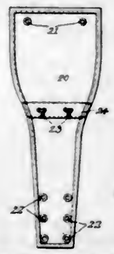
1. In a radiator core, the combination with a series of corrugated water channels, of a similarly corrugated spacer fixed between each pair of water channels, said spacer made with a pair of edge bands and a center band, all three of which are of the same shape but the corrugations of the center band are reversed relative to those of the edge bands, there being more finely corrugated bands intermediate said center and edge bands.

1,475,894. BEARING HOUSING FOR ELECTRIC MOTORS. CHARLES W. STARKEY, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 13, 1917. Serial No. 196,393. 3 Claims. (Cl. 171—252.)

1. An end plate for a dynamo-electric machine comprising a body portion, an arm formed integrally with the edge of the body portion and extending in a direction transverse to the plane thereof and a plurality of ear portions formed integrally with said arm and extending in directions transverse to the plane of the arm to form means for securing said arm to a supporting structure.

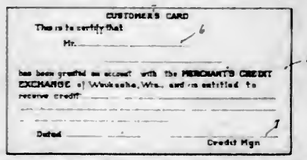


1,475,895. SANITARY BELT. JACOB STEIN, New York, N. Y. Filed Sept. 3, 1920. Serial No. 407,887. 1 Claim. (Cl. 128—291.)



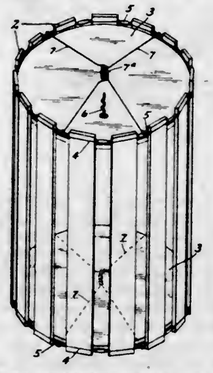
A device for supporting sanitary napkins, comprising a girdle having an adjustable connection at its opposite extremities, napkin supporting tabs having detachable connection with the girdle at diametrically opposite points thereof, each of said tabs comprising a strip of material having a relatively wide upper portion and narrow lower portion, said portions provided at their juncture with a transversely secured strip, a pair of spaced hooks secured to the transversely secured strip and a plurality of vertically spaced pairs of eyelets provided in the free extremity of the relatively narrow portion of the strip, each pair of which constitutes means respecively for the reception of a safety pin, and for engagement with the hooks to vary the length of the tabs, as and for the purpose specified.

1,475,896. MEANS FOR PROMOTING RETAIL CREDIT. CLARENCE L. STEINERT, Waukesha, Wis. Filed Feb. 28, 1922. Serial No. 540,045. 1 Claim. (Cl. 283—60.)



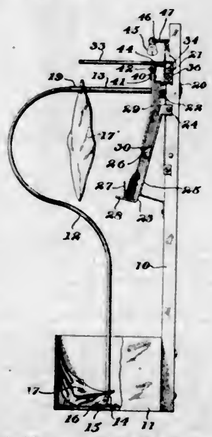
In connection with a system for conducting retail credit, the combination of a customer's card having a designated space thereon for the signature of the official of a central credit bureau, and a designated space thereon for the customer's name, said card having words printed thereon indicating that said customer has an account with said official, a corresponding record card for each store having words printed thereon indicating that said customer is in account with said central credit bureau and having a designated space for the customer's name and a space for remarks, sales slips having a space for the customer's name and having words printed thereon indicating that said customer is in account with said central credit bureau, said record card and said slips having spaces for said customer's number, said sale slips having space and appropriate indicia and forms for recording the sales and appropriate sheets for the use of the credit bureau in combining the credits of the individual stores, said sheets having a designated space thereon for the customer's name and a designated space for the customer's number and words printed thereon indicating that said customer is in account with said central bureau, said sheets having appropriate indicia and forms for the debiting, crediting and balancing of amounts.

1,475,897. KNOCKDOWN RECEPTACLE. ENOS E. SUTHERLAND, Los Angeles, Calif. Filed May 16, 1922. Serial No. 561,333. 9 Claims. (Cl. 217—44.)



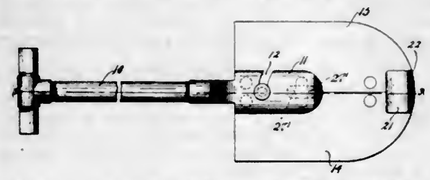
1. A knock down receptacle consisting of a plurality of stave like members arranged in laterally spaced relation and flexibly connected by links along the longitudinal edges so that the staves can be folded substantially one upon the other in a compact form and can be distended to encompass end or head members, and connected at the terminal staves.

1,475,898. TOWEL HOLDER. FLOYD J. TEFFT, Chicago, Ill. Filed July 29, 1922. Serial No. 578,456. 2 Claims. (Cl. 45—32.)



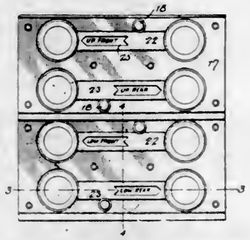
1. A towel holder comprising a support embodying an upright, a towel rod having its upper end connected with the upright adjacent its upper end and the lower end removably seated in relation to the lower end of said upright, said rod embodying sections separately by the rotation of one of said sections, a sliding towel holder mounted substantially in parallelism with the rotatable section of said towel rod, a handle carried by said rotatable section for rotating said section into connecting and disconnecting position respectively, and means carried by said handle for locking said holder-holding mechanism in operative position.

1,475,899. SPADE. ALFRED J. THIBAULT and RAOUL R. THIBAULT, Claremont, N. H. Filed Aug. 12, 1922. Serial No. 581,460. 3 Claims. (Cl. 294—49.)



1. A tool of the character described comprising a handle, a lock plate at one end thereof, a blade including two sections adapted to be arranged edge to edge, said sections having spaced openings, a reinforcing plate arranged at one side of the blade bridging the meeting edges thereof, lugs projecting from said reinforcing plate and passing through the openings of said blade, and said locking plate having a slot adapted to receive one of said lugs at the opposite side of the blade for the purpose specified.

1,475,900. PANEL CUT-OUT BLOCK. GEORGE B. THOMAS, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Nov. 29, 1921. Serial No. 518,619. 6 Claims. (Cl. 247—11.)

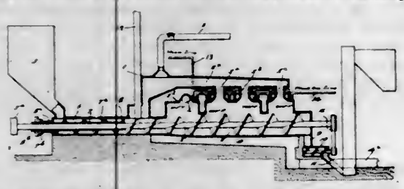


4. For use with a double ended, fused branch block, a cover plate adapted to overlie the branch block, an insulating lining for said cover plate, said lining and cover plate being apertured in register with the fuse terminals at opposite ends of the block, raised panels formed in said cover and extending between the fuse plug openings at opposite ends of the cover, said panel affording a way between the cover plate and its lining for the reception of a legend indicator, said panel being apertured to render visible the legend on said carrier, said aperture being shaped as a pointer directed toward the end of the branch block to which is connected the branch circuit identified by the legend carrier.

1,475,901. APPARATUS FOR DISTILLING HYDROCARBONS. CAREY W. THOMPSON, Denver, Colo. Filed Jan. 27, 1922. Serial No. 532,128. 1 Claim. (Cl. 196—4.)

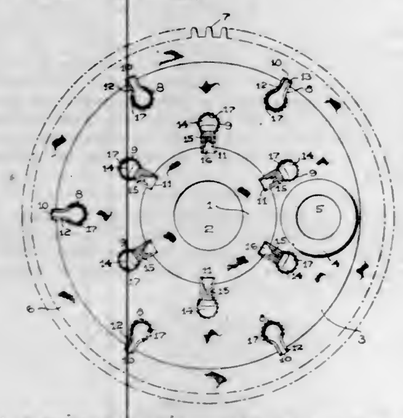
An apparatus for the distillation of hydrocarbons, including an elongated retort, a chamber therein containing a conveyor, a heat chamber under a part of said conveyor, said conveyor increasing in diameter from a point over

the beginning of the heat chamber to a point intermediate the beginning and end of said heat chamber, said conveyor being of uniform diameter for the remainder of its length,



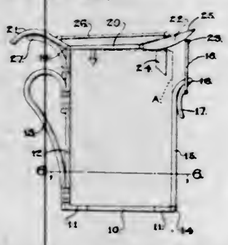
said conveyor chamber having an enlarged portion above the conveyor and a series of ports leading to a take-off above the chamber, said take-off communicating with that portion of the conveyor chamber not over the fire chamber.

1,475,902. FLEXIBLE GEAR ELEMENT. EDWIN B. THOMPSON, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 17, 1922. Serial No. 544,530. 5 Claims. (Cl. 74—29.)



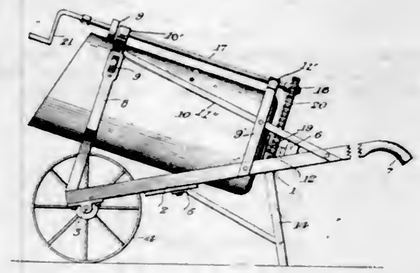
1. A flexible gear wheel comprising a central hub support, a gear rim and a floating crank-pin support, said crank-pin support being connected to said hub and said rim by a plurality of leaf springs.

1,475,903. MILK-CAN HOLDER. TONY C. URTASUN, Castaic, Calif. Filed May 6, 1922. Serial No. 558,944. 1 Claim. (Cl. 65—61.)



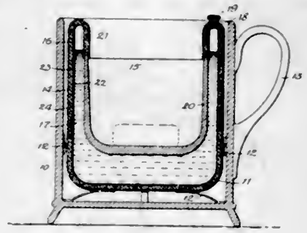
A older for a can of milk comprising an L-shaped support including a horizontal portion and a vertical portion, a strip hinged upon the free end of the horizontal portion and carrying a pivoted handle, a top piece hinged upon the upper end of the vertical portion and terminating in a cup formed with a depending tube having a pointed end, a hook on the underside of said cup, a loop pivoted on said handle near its pivot and engageable with said hook, a handle on the vertical portion of said L-shaped support, a cover hinged upon said top piece for covering said cup, a thumb piece pivoted upon the upper end of the vertical portion of the L-shaped support and located above the second named handle, and a link pivotally connected with said cover and with said thumb piece.

1,475,904. MIXER. JOE J. VANDENPLAS, Green Bay, Wis. Filed July 16, 1921. Serial No. 485,193. 1 Claim. (Cl. 259—30.)



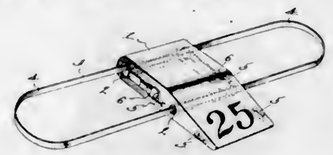
A mixer of the character described comprising a wheeled frame including converging side bars, an axle arranged at the convergent ends for carrying the wheel, a substantially W-shaped support rising from the convergent ends, a circular frame secured to the upper end of the W-shaped support, a semi-circular frame having its ends secured to the bars in the rear of the circular frame, inclined brace rods secured to the frames and to the side bars respectively, aligned bearings formed on the frame, a mixing cylinder arranged in said frame and means passing through said bearings for rotating the mixing cylinder as and for the purpose specified.

1,475,905. SHAVING MUG. EMERY D. VAN HORSEN, Three Forks, Mont. Filed Jan. 3, 1923. Serial No. 610,481. 2 Claims. (Cl. 45—136.)



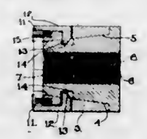
1. A shaving mug comprising spaced cup-shaped inner and outer shells connected at their upper ends and defining therebetween a sealed chamber for the reception of a heating agent, the entire outer shell and the upper portion of the inner shell constructed of a non-heat-conducting material, and the remaining lower portion of the inner shell constructed of a heat-conducting material, whereby to afford a container element, the contents of which will be maintained in a heated condition from the heating agent through the portion constructed of conducting material and whereby the non-conducting portion will minimize the dissipation of the heating agent.

1,475,906. MARKER. FRED A. VAN ORDEN, North White Lake, N. Y. Filed Nov. 13, 1922. Serial No. 600,726. 2 Claims. (Cl. 40—21.)



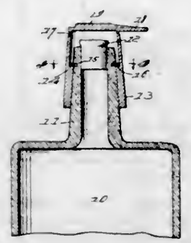
1. A marker of the class described comprising a number carrying member and loops at the sides thereof for engaging the wings of the fowl.

1,475,907. SECURING ELEMENT. ANI VOLMAN, Bridgeton, N. J. Filed Apr. 8, 1922. Serial No. 550,879. 4 Claims. (Cl. 85—33.)



1. A nut of the class described comprising a body, a pair of nut members movably mounted therein, each nut member having a threaded semi-circular recess in its inner face, means for causing the nut members to separate when they are moved outwardly from the body, means for locking the nut members within the body, such locking means comprising a pair of pivoted levers, a dog carried by each lever and each nut member having a notch therein for receiving the dog.

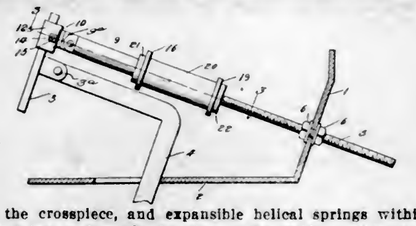
1,475,908. LOCK BOTTLE AND CAP. WILLIAM P. WALSH, Chicago, Ill. Filed May 26, 1922. Serial No. 563,815. 1 Claim. (Cl. 215—42.)



A bottle having a neck adapted for the reception of a cork, a cap fitted upon and surrounding the neck and locked thereto and enclosing the cork, the cap adjacent its upper end being provided with a circumferential groove forming a weakened section to facilitate twisting the top of the cap from the wall thereof by a turning movement, said cap having a radial arm, and a transverse rib in extension of said arm and disposed radially of the cap for engagement with a decapping tool.

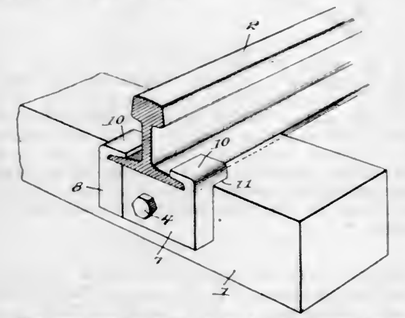
1,475,909. MOTOR-VEHICLE CLUTCH CONTROL. JACOB WASSERMAN, Brooklyn, N. Y. Filed July 14, 1921. Serial No. 484,814. 3 Claims. (Cl. 192—109.)

1. A motor vehicle clutch control comprising a fixed member, a crossbar secured to the fixed member, a crosspiece slidable on said fixed member, a casing slidable on the fixed member and connected to the said crosspiece, means for connecting the casing with the clutch pedal, tubes on opposite sides of the fixed member and connected



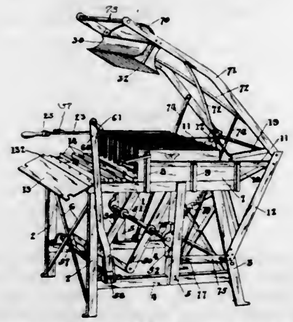
to the crosspiece, and expansible helical springs within the tubes and confined between the said crossbar and the ends of the tubes remote from said crosspiece.

1,475,910. RAIL FASTENER. VINCE WELESKI, Tarentum, Pa. Filed Apr. 12, 1923. Serial No. 631,655. 2 Claims. (Cl. 238—344.)



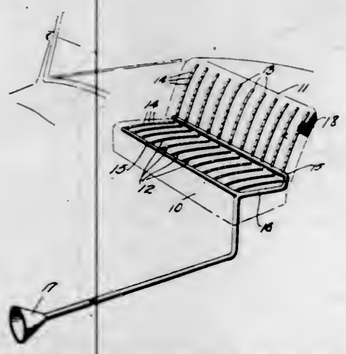
1. The combination with a metal tie grooved to provide a rail seat and a rail in the seat, of means for clamping the rails on the tie, comprising two companion members having their body portions notched for interengagement and their widened corners formed with rail engaging lips which extend laterally beyond their bodies to rest on the tie, and a single bolt passing through said members and through the tie for securing the same on the tie in rail engagement.

1,475,911. APPARATUS FOR FORMING FACED CONCRETE BLOCKS. CYRUS S. WERT, Kendallville, Ind. Filed Mar. 13, 1923. Serial No. 624,794. 7 Claims. (Cl. 25—41.)



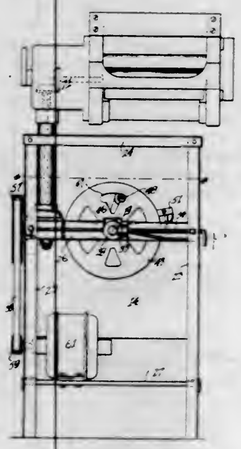
1. In a machine for molding concrete blocks, the combination with a supporting frame of a mold carried by the supporting frame comprising a back plate, end plates and a bottom plate, and a front plate hingedly connected to the supporting frame so as to swing downward away from the front of the mold and having the portion thereof which forms the front of the mold movable laterally across the face of the mold.

1,475,912. AUTOMOBILE SEAT WARMER AND COOLER. JOHN R. WILLIAMS, Miami, Ariz. Filed Aug. 17, 1922. Serial No. 582,501. 1 Claim. (Cl. 98—22.)



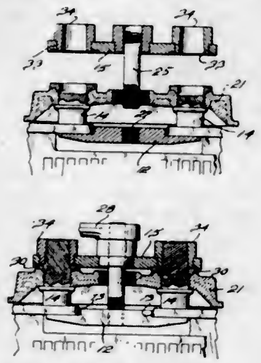
As an article of manufacture, a seat warmer and cooler comprising a main air conducting pipe having a pair of laterally directed branches extending in the same plane and in parallel relation, a plurality of perforated pipes extending from one of the said branches in a direction toward the other branch and in the same plane therewith, and a plurality of perforated pipes extending in parallel relation to each other and at an angle to the other branch and being connected thereto.

1,475,913. DRIVING MECHANISM FOR WASHING MACHINES. HERBERT E. WILLIAMSON, San Francisco, Calif. Filed May 1, 1922. Serial No. 557,565. 1 Claim. (Cl. 74—50.)



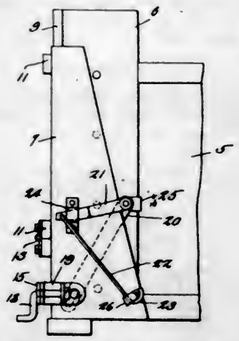
In a washing machine mechanism, the combination with a shaft, means for moving said shaft endwise, a tumbler, bosses, secured on the ends of said tumbler, means for engaging one of said bosses with said shaft, gears freely mounted on said shaft, a driving gear meshing with said gears, and adapted to rotate said gears in opposite directions, cams mounted between said gears, a driving arm slidably keyed to said shaft and adapted to rotate therewith, and a pin slidably mounted in said driving arm, said pin being adapted to alternately engage either of said gears, said engagement being caused by movement transmitted through said cams.

1,475,914. BATTERY-POST CLAMP. HARRY L. WOOD, Lakewood, Ohio. Filed Apr. 1, 1922. Serial No. 548,864. 14 Claims. (Cl. 29—84.)



1. A battery post clamp comprising in combination, a pair of jaws, one of which is movable, one of said jaws being shaped to hold a pair of posts and to position them laterally for receiving a battery cover, and means for moving one of said jaws to clamp the post and cover between said jaws.

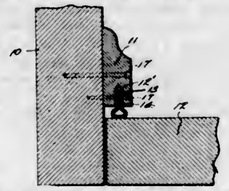
1,475,915. DUMP END GATE. HIRAM D. WOOD, Alexandria, Mo. Filed Jan. 20, 1922. Serial No. 530,586. 1 Claim. (Cl. 296—58.)



An endgate for wagon bodies comprising end boards secured to the wagon body, a gate section having side plates adapted to embrace portions of the end boards when the gate is moved to its closed position, keepers secured to the side plates at points in spaced relation with the ends thereof, a supporting means comprising pivoted bars having connection with the side plates, hook members pivotally connected to the bars at the upper ends thereof, bars having pivotal connection with the hook members, bracket members secured to the plates, rods having connection with the last mentioned bars and having curved portions for engagement with the keepers, and said rods and bars adapted to secure the endgate in its open and closed position.

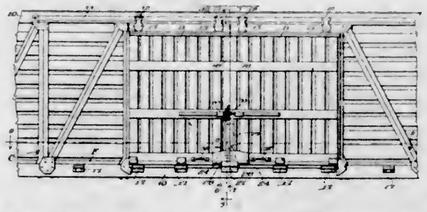
1,475,916. BUFFER. APOLLONY ZANELLA, Helena, Mont. Filed Feb. 5, 1923. Serial No. 617,005. 3 Claims. (Cl. 16—86.)

1. In combination, a door stop comprising a strip secured to the door frame and having a longitudinal groove, a door buffer formed from a single piece of yieldable material folded upon itself, and having its adjacent ends arranged in face to face contact and fitted in said groove, the intermediate portion of said buffer projecting beyond



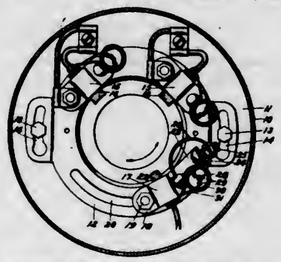
the strip and arranged to be engaged by said door, and the ends of said strip being secured in the groove by the means utilized in securing the strip to the door frame.

1,475,917. RAILWAY FREIGHT-CAR DOOR. AUGUSTINE R. AYERS and ROBERT S. MILLER, Cleveland, Ohio. Filed Nov. 24, 1920. Serial No. 426,126. 4 Claims. (Cl. 20—22.)



3. A freight car door construction comprising a pair of sliding doors adapted to close the door way and arranged on the outside face of said car and a fixed combined stop and guide secured to said car adjacent the bottom edge of said doors whereby said doors may be guided to prevent lateral displacement and the movement of said doors arrested in the closed position and means for locking said doors.

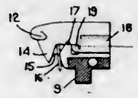
1,475,918. GENERATOR. ALVIN E. BUCHENBERG, Toledo, Ohio. Filed July 14, 1917, Serial No. 180,672. Renewed Apr. 17, 1923. 14 Claims. (Cl. 171—221.)



1. In a dynamo-electric machine having a commutator, and a pair of main brushes, an adjustable third brush and temperature controlled means responsive to the temperature of said machine for varying the position of said third brush.

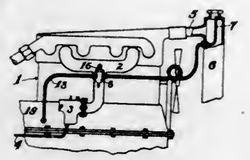
1,475,919. FILLING GUIDING AND TENSION MECHANISM FOR LOOM SHUTTLES. THOMAS E. NORMAN, Fall River, Mass. Filed Aug. 11, 1922. Serial No. 581,269. 6 Claims. (Cl. 139—223.)

1. In a loom shuttle comprising a filling carrier chamber, a side delivery eye having a threading slot leading thereto and a longitudinal thread passage communicating with said filling carrier chamber and said slotted eye; a horizontal tension member extending transversely of said longitudinal thread passage and guiding means for the filling positioned to hold down the filling fore and aft of said



tension member and acting to produce a substantially vertical bight in said filling and thereby to impose a tension upon the running filling.

1,475,920. HUMIDIFIER. CHARLES POHL, Los Angeles, Calif., assignor to John O. King, Los Angeles, Calif. Filed Mar. 8, 1921. Serial No. 450,618. 2 Claims. (Cl. 123—25.)



1. In a humidifier adapted for use in connection with an internal combustion engine, the combination of a jacket provided with draining means, there being a detachable cap for the jacket, a chamber positioned in the jacket and sealed to the cap, and having a port in its lower end communicating with the interior of the jacket, and a suction-operated valve to control said port, there being an intake port in the jacket for steam and there being a pipe fastened to the cap and communicating with the interior of the chamber.

1,475,921. INFANT'S BAND. HARRIET LYONS REDMOND, Boston, Mass., assignor to The William Carter Company, Needham Heights, Mass., a Corporation of Massachusetts. Filed July 22, 1921. Serial No. 486,670. 1 Claim. (Cl. 128—169.)

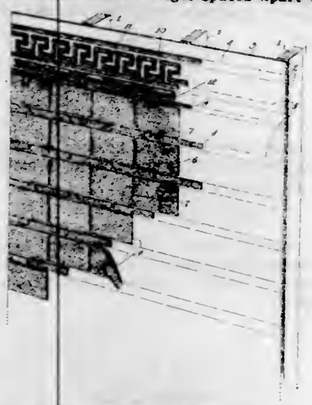


An infant's or like band comprising an unslitted strip of knitted material having an unbroken contour slightly tapering substantially from end to end thereby to provide relatively wide and narrow ends respectively, a transverse woven tape stitched upon the outer face of said band adjacent the wider end only thereof, a second woven tape superimposed upon said first mentioned tape, elastic seaming extending continuously about the edge of the band including the ends of said tapes and constituting securing means for attaching said superimposed tape at opposite ends only of the tape, and a pocket of knitted fabric elastically seamed upon the inner face of the band near the wider end thereof for the reception of cotton batting or other material and adapted to rest against the part to be treated, the wales of said band and of said pocket extending at substantially right angles to each other.

1,475,922. ART OF DECORATING WALLS. BERTHOLD SOGLOW, New York, N. Y. Filed Feb. 27, 1922. Serial No. 539,717. 16 Claims. (Cl. 41—34.)

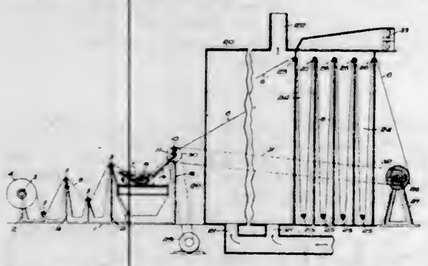
2. A decorative wall structure, comprising a wall having an approximately smooth surface, and pieces of sheet

surfacing material adhesively secured to the wall surface and having certain of their edges spaced apart to expose



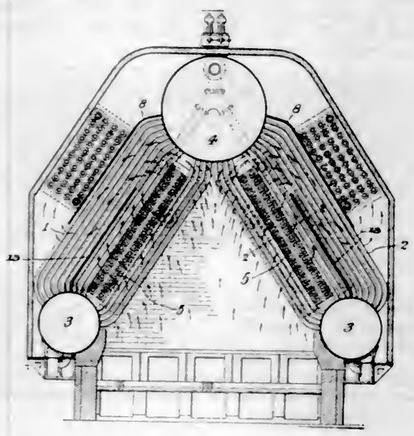
portions of the wall surface, said exposed wall surface portions being colored in contrast to the applied material, producing a simulation of a masonry structure.

1,475,923. APPARATUS FOR AND METHOD OF PRODUCING COLORED NATURE PAPERS. THOMAS MERCER ATKINSON, Cambridge, Mass., assignor to The Royston Paper Company, Milltown, N. J., a Corporation of New Jersey. Filed Dec. 19, 1921. Serial No. 523,428. 6 Claims. (Cl. 8—5.)



1. In an apparatus for producing colored nature papers, a rotatable holder carrying a roll of uncolored strip paper, means for drawing out the paper from the roll and ironing the same, a dye tank, a plurality of hard-surfaced pressure rollers between which the paper is passed after leaving the solution of dye, a box confining a body of heated air through which the paper travels free from contact with any supporting or other surface while said paper is wet with dye, a series of rollers alternately over and under which the dried paper is drawn, a winding roll upon which the finished paper is rewound, and means for rotating said pressure rollers and said winding roll at the same relative speed whereby the strip paper is continuously fed at a constant rate of travel.

1,475,924. SUPERHEATER. JOSEPH JOHN NELIS, Brooklyn, N. Y., assignor to Power Specialty Company, New York, N. Y., a Corporation of New York. Filed Jan. 24, 1921. Serial No. 439,381. 4 Claims. (Cl. 122—473.)



2. In a boiler of the Yarrow type, the combination with the banks of boiler tubes longitudinally divided to form spaces, of superheaters constituting leaky baffles, arranged in said spaces and baffles back of said superheaters for deflecting such gases as pass through the superheaters and causing them to flow upward and unite with the gases deflected by the superheaters.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abbott Laboratories, Chicago, Ill. N-butyl-ethyl-barbituric acid. 175,580; Nov. 6; Serial No. 181,233; published Aug. 21, 1923.

Abeeco Mill, Inc., New York, N. Y. Artificial-silk waste partly prepared. 175,547; Nov. 6; Serial No. 179,912; published Aug. 21, 1923.

Abraham & Straus, Inc., New York, N. Y. Cotton voiles and dress goods in the piece. 175,657; Nov. 6; Serial No. 181,579; published Aug. 21, 1923.

Actived Sign Service. (See Dawson, Harry C.)

Advance Chemical Company, Inc., New York, N. Y. Concentrated maltless extract as a material for making ginger ale and other beverages. 175,512; Nov. 6; Serial No. 177,721; published Aug. 28, 1923.

Agra Shirt Co., New York, N. Y. Dress, negligee, and work shirts. 175,597; Nov. 6; Serial No. 179,126; published Aug. 14, 1923.

Albany Perforated Wrapping Paper Co., Albany, N. Y. Toilet paper and paper towels. 175,284; Nov. 6; Serial No. 182,529; published Aug. 21, 1923.

Allegheny Steel Company, Brackenridge, Pa. Steel billets, sheets, forgings, round bars, and rounds. 175,559; Nov. 6; Serial No. 179,698; published Aug. 21, 1923.

Alsdorf, A. J., Corporation, The, Chicago, Ill. Oil heaters. 175,539; Nov. 6; Serial No. 180,678; published Aug. 21, 1923.

American Bleached Goods Company, Inc., New York, N. Y. Cotton piece goods. 175,452; Nov. 6; Serial No. 182,896; published Aug. 28, 1923.

American Chemical & Manufacturing Corporation, Dover, Del., and Kenilworth, N. J. Rustproofing oils. 175,378; Nov. 6; Serial No. 169,432; published Aug. 28, 1923.

American Lady Corset Company, Detroit, Mich. Cotton, silk, woolen, etc., piece goods, and ribbons. 175,548; Nov. 6; Serial No. 179,917; published Aug. 28, 1923.

American Soldier Co., The, Glendale, Brooklyn, and New York, N. Y. Games and toys. 175,649; Nov. 6; Serial No. 180,648; published Aug. 21, 1923.

American Stove Company, St. Louis, Mo. Ovens for gas, gasoline, and oil stoves. 175,627; Nov. 6; Serial No. 174,720; published Aug. 14, 1923.

Anderson, Clayton & Co., Houston, Tex. Raw cotton. 175,472; Nov. 6; Serial No. 181,804; published Aug. 21, 1923.

Andrews, H. P., Paper Company, New York, N. Y. Thin soft paper. 175,342; Nov. 6; Serial No. 171,407; published Aug. 21, 1923.

Andrews, H. P., Paper Company, New York, N. Y. Index bristol paper. 175,343; Nov. 6; Serial No. 171,405; published Aug. 21, 1923.

Andrews, H. P., Paper Company, New York, N. Y. Ledger paper. 175,350; Nov. 6; Serial No. 167,757; published Aug. 21, 1923.

Andrews, H. P., Paper Company, New York, N. Y. Bond paper. 175,351; Nov. 6; Serial No. 167,754; published Aug. 21, 1923.

Andrews, H. P., Paper Company, New York, N. Y. Index bristol paper. 175,352; Nov. 6; Serial No. 167,753; published Aug. 21, 1923.

Anglo-Indian Drug & Chemical Co., The, doing business as Kaminia Perfumery Co., Bombay, India. Perfumery and hair oil. 175,410; Nov. 6; Serial No. 166,869; published Aug. 14, 1923.

Armand Company, The, Des Moines, Iowa. Face and talcum powders, rouge, cold cream, etc. 175,671; Nov. 6.

Armstrong Golf Grip Corporation, The, Baltimore, Md. Golf grips. 175,668; Nov. 6.

Asia Sales Corporation, Portland, Oreg. Carpets, rugs, and draperies. 175,567; Nov. 6; Serial No. 181,236; published Aug. 28, 1923.

Associated Tire Stores Corporation, New York, N. Y., assignors to Century-Plainfield Rubber Company, Plainfield, N. J. Tires and tubes. 175,695; Nov. 6.

Atkinson, Wade & Co., New York, N. Y. Cretonnes, linens, reps, etc., in the piece. 175,608; Nov. 6; Serial No. 173,342; published Aug. 28, 1923.

Baefsky, Louis, doing business as Famous Raincoat Company, Cincinnati, Ohio. Men's and boys' overcoats and suits. 175,393; Nov. 6; Serial No. 157,910; published Aug. 7, 1923.

Baker, Hamilton & Pacific Company, San Francisco, Calif. Stepladders. 175,388; Nov. 6; Serial No. 170,352; published Aug. 28, 1923.

Banks, Chester O., also doing business as C. O. Banks Co., Monrovia, Calif. Fresh citrous fruits. 175,618; Nov. 6; Serial No. 180,831; published Aug. 21, 1923.

Barbour Flax Spinning Co., Paterson, N. J. Hand-sewing and machine-sewing linen threads. 175,550; Nov. 6; Serial No. 179,985; published July 31, 1923.

Barrington Packing Co., Barrington, Ill. Hams and bacon. 175,715; Nov. 6.

Bassick Company, The, Bridgeport, Conn. Hood catches, hood-catch brackets, hood and door handles. 175,377; Nov. 6; Serial No. 169,966; published Feb. 13, 1923.

Battle Creek Food Company, The, Battle Creek, Mich. Nut butter. 175,371; Nov. 6; Serial No. 175,057; published Aug. 14, 1923.

Battle Creek Food Company, The, Battle Creek, Mich. Breakfast cereals. 175,685; Nov. 6.

Beaton & Cadwell Manufacturing Company, The, New Britain, Conn. Floor and ceiling plates. 175,714; Nov. 6.

Bedsole-Colvin Drug Co. Inc., Mobile, Ala. Writing tablets. 175,301; Nov. 6; Serial No. 181,510; published Aug. 14, 1923.

Beegle Packing Co., Ketchikan, Alaska. Canned salmon. 175,529; Nov. 6; Serial No. 181,106; published Aug. 21, 1923.

Beerli, Joseph F., Cleveland, Ohio. Physiological nutritive salts. 175,493; Nov. 6; Serial No. 177,894; published July 17, 1923.

Beir, Arthur, & Co. Inc., New York, N. Y. Silk, cotton, and wool piece goods and combinations thereof. 175,524; Nov. 6; Serial No. 174,953; published Aug. 28, 1923.

Berliner, Edwin E., & Co., New York, N. Y. Cotton piece goods. 175,341; Nov. 6; Serial No. 171,446; published Aug. 14, 1923.

Bethel Springs Water Co., Boothwyn, Pa. Battery water. 175,624; Nov. 6; Serial No. 180,744; published Aug. 14, 1923.

Bickmore Company, The, Old Town, Me. Healing powder for wounds and sores on all kinds of livestock. 175,481; Nov. 6; Serial No. 179,454; published Aug. 21, 1923.

Biloxi Packing & Trading Co., Biloxi, Miss. Canned shrimp and oysters. 175,394; Nov. 6; Serial No. 158,175; published Jan. 9, 1923.

Bloom & Perla, New York, N. Y. Shirts. 175,705; Nov. 6.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 175,553; Nov. 6; Serial No. 179,848; published Aug. 28, 1923.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 175,662; Nov. 6; Serial No. 182,201; published Aug. 21, 1923.

Bolivar Packing Company, San Diego, Calif. Olives. 175,617; Nov. 6; Serial No. 180,835; published Aug. 21, 1923.

Bothamley, George, New York, N. Y. Dyestuffs. 175,432; Nov. 6; Serial No. 171,568; published Aug. 28, 1923.

Brandes, Max, Brooklyn, N. Y. Corn salve. 175,496; Nov. 6; Serial No. 177,768; published Aug. 21, 1923.

Brenner, Jacob, Fond du Lac, Wis. Furnaces. 175,691; Nov. 6.

Brine, James W., Company, Boston, doing business as Kingston Knitting Company, Cambridge, Mass. Sweaters, rib sport coats, bathing suits, etc. 175,586; Nov. 6; Serial No. 178,708; published Aug. 14, 1923.

Brooks, Geo., & Son Company, Philadelphia, Pa. Piece goods of cotton and silk for draperies. 175,644; Nov. 6; Serial No. 180,045; published Aug. 21, 1923.

Brooks-Wilbor-Parsons Company, Cleveland, Ohio. Books of blank forms. 175,287; Nov. 6; Serial No. 123,328; published Aug. 14, 1923.

Brown, Frank R., Columbus, Ohio. Cream confections. 175,718; Nov. 6.

Brown, James E., doing business as Swansdown Sanitary Garment Company, Detroit, Mich. Sanitary napkins. 175,690; Nov. 6.

Brunelle Drug Co., Woonsocket, R. I., Medicinal preparation for indigestion, dyspepsia, etc. 175,576; Nov. 6; Serial No. 181,057; published Aug. 21, 1923.

Buchanan, J. W., doing business as Nu-Pep Laboratories, Union, S. C. Vegetable general tonic for human use. 175,578; Nov. 6; Serial No. 181,173; published Aug. 21, 1923.

Budeke, George M., Baltimore, Md. Oil paint, ready mixed and paste; linseed oils, floor wax, floor and furniture polish, etc. 175,295; Nov. 6; Serial No. 155,044; published Feb. 13, 1923.

Burgower, L., H., doing business as The Vogue, Dallas, Tex. Women's outer coats, suits, dresses, and hats. 175,443; Nov. 6; Serial No. 127,709; published Aug. 7, 1923.

Burny Bros., Chicago, Ill. Baker's bread. 175,679; Nov. 6.

Buxton, David H., doing business as Buxton Rheumatic Medicine Co., Abbot Village, Me. Compound for treating rheumatism. 175,568; Nov. 6; Serial No. 180,961; published Aug. 21, 1923.

Cabarrus Cotton Mills, Kannapolis, N. C. Cotton piece goods, sheets, pillow cases. 175,708; Nov. 6.

Caldwell, William, New York, N. Y. Dolls, rubber dolls, balloons, squawkers. 175,590; Nov. 6; Serial No. 179,709; published Aug. 21, 1923.

California Almond Growers Exchange, San Francisco, Calif. Almonds. 175,296; Nov. 6; Serial No. 157,024; published May 8, 1923.

California Almond Growers Exchange, San Francisco, Calif. Almonds. 175,313; Nov. 6; Serial No. 157,025; published May 8, 1923.
California Aroma Co., Los Angeles, Calif. Chili, pepper and chili powder. 175,304; Nov. 6; Serial No. 165,527; published Aug. 14, 1923.
California Associated Raisin Co. (now by change of name Sun Maid-Raisin Growers), Fresno, Calif. Raisins and candy. 175,312; Nov. 6; Serial No. 157,758; published Aug. 14, 1923.
California By-Products Co., San Francisco, Calif. Waterproofing composition for application to tennis-racket strings. 175,479; Nov. 6; Serial No. 179,514; published Aug. 21, 1923.
California Products & Extract Co., San Francisco, Calif. Nonintoxicating, nonalcoholic, noncereal, maltless fruit beverage and syrups for same. 175,418; Nov. 6; Serial No. 160,393; published May 16, 1922.
Cannon Toilet Manufacturing Co., The, St. Paul, Minn. Face and hand lotions, face creams, and hair pomades. 175,484; Nov. 6; Serial No. 178,330; published Aug. 14, 1923.
Carnrick, G. W., Co., New York, N. Y. Medicinal preparation. 175,486; Nov. 6; Serial No. 178,089; published Aug. 28, 1923.
Catamount Manufacturing Co., Inc., Bennington, Vt. Athletic union suits for men, boys, and children. 175,359; Nov. 6; Serial No. 177,831; published Aug. 14, 1923.
Century-Plainfield Rubber Company. (See Associated Tire Stores Corporation, assignors.)
Chance Brothers and Co. Limited, West Smethwick, Stafford, England. Glass. 175,467; Nov. 6; Serial No. 182,086; published Aug. 21, 1923.
Chandler Mary W., doing business as Takof Company, Cleveland Heights, Ohio. Tweezers for removing superfluous hair. 175,538; Nov. 6; Serial No. 180,588; published Aug. 21, 1923.
Cherokee Spinning Company, Knoxville, Tenn. Cotton piece goods. 175,453–4; Nov. 6; Serial Nos. 182,788–9; published Aug. 28, 1923.
Chicago Paper Company, Chicago, Ill. Printing and writing paper. 175,338; Nov. 6; Serial No. 171,786; published Aug. 21, 1923.
Chicago Whistle Bottling Co., Chicago, Ill. Nonalcoholic maltless soft drinks. 175,586; Nov. 6; Serial No. 181,379; published Aug. 28, 1923.
Cliver-Wright-Rainey Co., The, Cincinnati, Ohio. Men's, women's, and children's hosiery. 175,469; Nov. 6; Serial No. 182,134; published Aug. 28, 1923.
Coast Tire and Rubber Company, Oakland, Calif. Rubber tires. 175,557; Nov. 6; Serial No. 179,657; published Aug. 21, 1923.
Coleman, Harry, London, England. Woolen fabrics. 175,470; Nov. 6; Serial No. 182,234; published Aug 28, 1923.
Colson Company, The, Elyria, Ohio. Toy vehicles. 175,437; Nov. 6; Serial No. 148,870; published Aug. 28, 1923.
Colton & Collins, Inc., Oakland, Calif. Ointment and solution for use in the treatment of eczema and sirup sanguinaria compound for colds and coughs. 175,441; Nov. 6; Serial No. 132,170; published Aug. 8, 1922.
Commercial Chemical Company, Memphis, Tenn. Insecticides. 175,480; Nov. 6; Serial No. 179,460; published Aug. 21, 1923.
Cook, Ellen T., Buffalo, N. Y. Emollient for treating feet. 175,427; Nov. 6; Serial No. 173,701; published Aug. 21, 1923.
Cortland Line Co. Inc., Cortland, N. Y. Silk fishing lines. 175,385; Nov. 6; Serial No. 164,386; published Aug. 21, 1923.
Cotter, R. E., Co., San Francisco, Calif. Canned fish, fruits, and vegetables. 175,331; Nov. 6; Serial No. 180,201; published Aug. 14, 1923.
Coudurier, Fructus & Descher, Lyon, France, and New York, N. Y. Velvets in the piece. 175,510; Nov. 6; Serial No. 177,548; published Aug. 28, 1923.
Cox, Chester R., Berkeley, Calif. Built-in furniture. 175,699; Nov. 6.
Crocker, Josiah H., doing business as Takof Company, Cambridge, Mass. Stove polishes. 175,694; Nov. 6.
Curtis Corporation, The, Wilmington, Del., and Long Beach, Calif. Canned ripe olives and canned fish. 175,344; Nov. 6; Serial No. 171,305; published Aug. 14, 1923.
Dahlquist, Theodore W., doing business as Dahlquist Manufacturing Company, South Boston, Mass. Expansion joints, kettles, floats, etc. 175,721; Nov. 6.
Dainty-Form Company Inc., New York, N. Y. Fat-reducing cream. 175,621; Nov. 6; Serial No. 180,791; published Aug. 14, 1923.
Dairy Laboratories, The, Philadelphia, Pa. Antiseptic and deodorizers. 175,492; Nov. 6; Serial No. 177,898; published Aug. 14, 1923.
Dan-Nax Co., The. (See Gunter, Daniel J.)
Daniels and Fisher Stores Company, The, Denver, Colo. Cold, lemon beauty, and tissue creams, lip sticks, eyebrow pencils, etc. 175,395; Nov. 6; Serial No. 157,359; published Aug. 1, 1922.
Danya, Inc., New York, N. Y. Rouge vanishing cream. 175,485; Nov. 6; Serial No. 178,231; published Aug. 21, 1923.
Davenport-Taylor Mfg. Company, Chicago, Ill. Interchangeable cut-to-shape letters and figures of resilient material. 175,520; Nov. 6; Serial No. 175,471; published June 5, 1923.
Davey Tree Expert Company, The, Kent, Ohio. Chemical composition of matter for dressing tree wounds. 175,424; Nov. 6; Serial No. 183,035; published Aug. 28, 1923.
Davis & Voetsch, New York, N. Y. Dolls and stuffed animals. 175,466; Nov. 6; Serial No. 181,982; published Aug. 28, 1923.
Dawson, Harry C., doing business as Activad Sign Service, Columbus, Ohio. Signs for mechanical advertising purposes. 175,562; Nov. 6; Serial No. 179,033; published Aug. 21, 1923.
Dee-Gee Co. (See Dennis, Charles J.)
Del Monte-Hickey, New York, N. Y. Sport clothes for women. 175,334; Nov. 6; Serial No. 174,202; published July 10, 1923.
Delta Sigma Phi Fraternity, The, New York, N. Y. Quarterly publication. 175,292; Nov. 6; Serial No. 153,715; published June 12, 1923.
Dennis, Charles J., doing business as Dee-Gee Co., Chicago, Ill. Nonalcoholic, maltless sirup used in making soft drinks. 175,408; Nov. 6; Serial No. 181,516; published Aug. 28, 1923.
Detroit Alloy Steel Co., Detroit, Mich. Tool steel. 175,303; Nov. 6; Serial No. 166,554; published Aug. 14, 1923.
Diamond Expansion Bolt Co., New York, N. Y. Galvanizing. 175,308; Nov. 6; Serial No. 161,822; published Aug. 14, 1923.
Diamond Expansion Bolt Co., New York, N. Y. Rings for stringing bridle wires. 175,554–5; Nov. 6; Serial Nos. 179,782–3; published Aug. 21, 1923.
Dickes, Block and Abbey, New York, N. Y. Dresses, costumes, and gowns. 175,365; Nov. 6; Serial No. 176,538; published Aug. 14, 1923.
Direct Chocolate Company, Inc., Fall River, Mass. Candy. 175,536; Nov. 6; Serial No. 180,755; published Aug. 21, 1923.
Direct Method Company, Warren, Pa. Traveling bags. 175,463; Nov. 6; Serial No. 182,572; published Aug. 28, 1923.
Dudley & Co., Fairport, N. Y. Baking powder, bicarbonate of soda, gloss starch. 175,635; Nov. 6; Serial No. 179,859; published Aug. 28, 1923.
Duplan Silk Corporation, New York, N. Y. Silk piece goods. 175,563; Nov. 6; Serial No. 178,976; published July 12, 1923.
Durez Company, Inc. (See Industrial Molded Materials Company, assignor.)
E-Nam-O Mfgrs., Chicago, Ill. Chemical preparation for coloring hair. 175,620; Nov. 6; Serial No. 180,795; published Aug. 14, 1923.
Ebling Company, The, New York, N. Y. Concentrated commercial diastase. 175,577; Nov. 6; Serial No. 181,065; published Aug. 21, 1923.
Elsold, Alfred G., doing business as Elsold's Flavor & Syrup Co., Milwaukee, Wis. Flavoring extract for soft drinks. 175,386; Nov. 6; Serial No. 170,129; published Aug. 28, 1923.
Elizabeth City Hosiery Co. Inc., Elizabeth City, N. C. Hosiery. 175,364; Nov. 6; Serial No. 176,888; published Aug. 14, 1923.
Elkhorn Coal Company, Lexington, Ky. Coal. 175,541; Nov. 6; Serial No. 180,593; published Aug. 21, 1923.
El Zair, Inc. (See Thompson-Barlow Company, assignor.)
Emblem Manufacturing Company, Angola, N. Y. Bicycles. 175,376; Nov. 6; Serial No. 169,160; published Aug. 28, 1923.
Emeis, Harry P., doing business as Stero-Oil Company, San Diego, Calif. Lubricating and sterilizing medium for dental instruments. 175,508; Nov. 6; Serial No. 177,433; published Aug. 28, 1923.
Emery, John R., Wakefield, Mass. Doorstops. 175,324; Nov. 6; Serial No. 180,794; published Aug. 14, 1923.
Ephraim Sanitary Canning Company, Ephraim, Utah. Canned vegetables. 175,349; Nov. 6; Serial No. 168,674; published Aug. 14, 1923.
Esperson, Niels, doing business as Mid-Continent Clay Company, Peru, Kans. Building bricks and roofing tile. 175,391; Nov. 6; Serial No. 171,587; published Aug. 28, 1923.
Everite Novelty Company. (See Rothschild, Rae.)
Exterminating Engineers of America, The. (See Patjens, Wm. S.)
Famous Raincoat Company. (See Baeffsky, Louis.)
Fellows Medical Manufacturing Company Inc., New York, N. Y. Preparation of hypophosphites. 175,495; Nov. 6; Serial No. 177,836; published Aug. 14, 1923.
Festina Bros., New York, N. Y. Preparation for the treatment of kidney and blood diseases. 175,619; Nov. 6; Serial No. 180,796; published Aug. 14, 1923.
Finlayson Flax Spinning Co. (See Linen Thread Co., The.)
Fiske & Company, Inc., Boston, Mass. Bricks. 175,693; Nov. 6.
Fitzpatrick, L. A., doing business as The Fitzpatrick Company, Helena, Ark. Preparation for straightening the hair. 175,633; Nov. 6; Serial No. 179,932; published Aug. 21, 1923.
Five Brothers Medicine Co. (See Kobylanski, John F.)

Fleischer, Max, New York, N. Y. Moving pictures and animated drawings. 175,288; Nov. 6; Serial No. 148,266; published Nov. 7, 1922.
Florida Citrus Exchange, Tampa, Fla. Canned citrous fruits. 175,369; Nov. 6; Serial No. 175,719; published Aug. 14, 1923.
Ford Flour Company, Wilmington, Del., and Nashville, Tenn. Wheat flour. 175,677; Nov. 6.
Ford Flour Company, Inc., Wilmington, Del., and Nashville, Tenn. Self-rising flour. 175,700; Nov. 6.
Forkner, J. C., Fig Gardens, Incorporated, The, Fresno, Calif. Jams. 175,346; Nov. 6; Serial No. 171,071; published Aug. 14, 1923.
Fort Howard Paper Company, Green Bay, Wis. Toilet paper, paper napkins, towels, and tablecloths. 175,286; Nov. 6; Serial No. 182,049; published Aug. 21, 1923.
Fort Howard Paper Company, Green Bay, Wis. Toilet paper, paper napkins, towels, and tablecloths. 175,326; Nov. 6; Serial No. 180,758; published Aug. 14, 1923.
Fox River Paper Company, Appleton, Wis. Writing paper. 175,290; Nov. 6; Serial No. 181,688; published Aug. 14, 1923.
Frank Goetz Bakery Company, The, New Haven, Conn. Biscuits and crackers. 175,684; Nov. 6.
Fredericksburg Brewing Company. (See Wielands Incorporated.)
Free & Klinck, Inc., Brooklyn, N. Y. Canned fruits and vegetables. 175,332; Nov. 6; Serial No. 181,020; published Aug. 21, 1923.
Galbrun, Eugene, Paris, France. Organic solution of iron and manganese combined with peptones for anæmia, etc. 175,534; Nov. 6; Serial No. 180,854; published Aug. 28, 1923.
Galbrun, Eugene, Paris, France. Solution containing peptone and iodine. 175,616; Nov. 6; Serial No. 180,855; published Aug. 14, 1923.
Garrett and Co., Inc., Brooklyn, N. Y. Food-flavoring extracts and jellies. 175,610; Nov. 6; Serial No. 172,644; published Aug. 14, 1923.
Gasifer Company, The, Elizabeth, N. J. Hydrocarbon-fuel burners. 175,525; Nov. 6; Serial No. 180,214; published Aug. 21, 1923.
Gatlin and Gatlin, Los Angeles, Calif. Canned fish. 175,407; Nov. 6; Serial No. 181,562; published Aug. 21, 1923.
Gem Safety Razor Corporation, Brooklyn, N. Y. Safety-razor sets. 175,666; Nov. 6.
General Water Heater Corporation, Los Angeles, Calif. Water heaters. 175,535; Nov. 6; Serial No. 180,856; published Aug. 21, 1923.
Genesee Pure Food Company, The, Le Roy, N. Y. Compound for use in the preparation of jellies, desserts, and pastries. 175,564; Nov. 6; Serial No. 178,998; published Aug. 21, 1923.
Germ-A-Lax Laboratories. (See Raymond, Jules N.)
Gilbert Paper Co., Menasha, Wis. Bond, ledger, and writing paper. 175,285; Nov. 6; Serial No. 182,411; published Aug. 21, 1923.
Gimbel Brothers, Inc., New York, N. Y. Golf balls. 175,599; Nov. 6; Serial No. 178,916; published Aug. 21, 1923.
Glickson, Simon, Chicago, Ill. Preparations for gonorrhea and syphilis. 175,402; Nov. 6; Serial No. 164,538; published Aug. 28, 1923.
Goetz-Berlin Co. Inc., New York, N. Y. Linings, pocketings, and interlinings in the piece. 175,521; Nov. 6; Serial No. 175,485; published Aug. 28, 1923.
Goldberg, Eli F., doing business as Lewgold Imports, Syracuse, N. Y. Saws. 175,319; Nov. 6; Serial No. 180,977; published Aug. 21, 1923.
Golding Fabrics Corporation, New York, N. Y. Piece goods made of silk. 175,315; Nov. 6; Serial No. 181,182; published Aug. 14, 1923.
Golding Fabrics Corporation, New York, N. Y. Fabrics made of silk. 175,444; Nov. 6; Serial No. 183,336; published Aug. 28, 1923.
Gorham Manufacturing Company, Providence, R. I. Desk sets, pens, lead pencils, envelopes, etc. 175,293; Nov. 6; Serial No. 152,245; published Aug. 14, 1923.
Grand Lake & Gulf Shrimp Company, Westwego, La. Canned shrimp. 175,294; Nov. 6; Serial No. 156,740; published Aug. 14, 1923.
Grande Maison de Blanc, Inc., New York, N. Y. Brassières, corsets, cainsolcs, chemises, nightgowns, etc. 175,522; Nov. 6; Serial No. 175,141; published Aug. 23, 1923.
Gravin, Samuel L., doing business as Gravin Laboratories, New York, N. Y. Preparation for treatment of piles, tumors, eczema, and all skin erruptions. 175,712; Nov. 6.
Green, Charles L., New Orleans, La. Hair grower and dandruff preparation. 175,573; Nov. 6; Serial No. 181,023; published Aug. 28, 1923.
Grennan Cake Corporation, Detroit, Mich. Casters. 175,300; Nov. 6; Serial No. 181,593; published Aug. 14, 1923.
Grey, Frank S., Sacramento, Calif. Pills for the relief of liver complaint, constipation, etc. 175,646; Nov. 6; Serial No. 180,537; published Aug. 28, 1923.
Guest Neckwear Co., Inc., Rochester, N. Y. Neckties. 175,310; Nov. 6; Serial No. 159,461; published Aug. 14, 1923.
Gunter, Daniel J., doing business as The Dan-Nax Co., Atlanta, Ga. Liver regulator and tonic. 175,499; Nov. 6; Serial No. 177,297; published Aug. 14, 1923.
Gussow, Abraham, doing business as A. Gussow & Co., New York, N. Y. Women's cotton undergarments. 175,320–1; Nov. 6; Serial Nos. 180,928–9; published Aug. 14, 1923.
Gutman, F. V., Corp., New York, N. Y. Hosiery. 175,594; Nov. 6; Serial No. 179,531; published Aug. 14, 1923.
Haas, Baruch & Co., Los Angeles, Calif. Coffee. 175,518; Nov. 6; Serial No. 176,623; published Aug. 14, 1923.
Haas Brothers Fabrics Corporation, New York, N. Y. Silk, artificial-silk, cotton, linen, and woolen piece goods. 175,464; Nov. 6; Serial No. 182,344; published Aug. 28, 1923.
Halleczyk Cigar Company, Chicago, Ill. Cigars. 175,399; Nov. 6; Serial No. 165,626; published Aug. 21, 1923.
Handley, Homer J., Chappell, Nebr. Skin lotion. 175,581; Nov. 6; Serial No. 181,276; published Aug. 21, 1923.
Hanlon & Goodman Co., New York, N. Y. Paint, varnish, and calcimine brushes. 175,389; Nov. 6; Serial No. 170,189; published Aug. 28, 1923.
Harrisburg Colliery Company, Chicago, Ill. Coal. 175,459; Nov. 6; Serial No. 182,584; published Aug. 21, 1923.
Heddon's, James, Sons, Dowagiac, Mich. Fish baits and lures, fishing hooks, rods, lines, and reels. 175,713; Nov. 6.
Heidelberger Federhalter-Fabrik Koch, Weber & Co. A.-G., Heidelberg, Germany. Fountain pens, penholders, pencils, etc. 175,354; Nov. 6; Serial No. 178,340; published Aug. 21, 1923.
Heidelberger Federhalter-Fabrik Koch, Weber & Co. A.-G., Heidelberg, Germany. Penholders and fountain pens. 175,355; Nov. 6. Serial No. 178,339; published Aug. 21, 1923.
Heller, B., & Company, Chicago, Ill. Chemical preparation for preserving smoked sausage. 175,420; Nov. 6; Serial No. 171,127; published Aug. 28, 1923.
Heller, B., & Company, Chicago, Ill. Chemical preparation for use in preserving fresh sausage. 175,421; Nov. 6; Serial No. 171,125; published Aug. 28, 1923.
Heller, B., & Company, Chicago, Ill. Meat-curing chemical preparation. 175,430; Nov. 6; Serial No. 171,755. published Aug. 28, 1923.
Hillside Fluor Spar Mines, Chicago, Ill. Foundry flux. 175,636; Nov. 6; Serial No. 179,792; published Aug. 28, 1923.
Hipolito Screen & Sash Co., Los Angeles, Calif. Window and door wire screens. 175,325; Nov. 6; Serial No. 180,764; published Aug. 14, 1923.
Hoefler, Henry R., Astoria, Oreg., and San Francisco, Calif. Chocolate and candies. 175,347; Nov. 6. Serial No. 170,107; published Aug. 14, 1923.
Hoppe, Emil, Elizabeth, N. J. Carrousels. 175,660; Nov. 6; Serial No. 181,945; published Aug. 21, 1923.
Huber, Rudolfo, Nashville, Tenn. Pocket calculating machines. 175,309; Nov. 6; Serial No. 160,288; published Aug. 21, 1923.
Hudson, J. L., Co., The, Detroit, Mich. Ladies' and misses' dresses. 175,551; Nov. 6. Serial No. 180,121; published Aug. 28, 1923.
Huffman, William G., jr., Greenville, Tex. Laxative. 175,497; Nov. 6; Serial No. 177,741; published Aug. 14, 1923.
Hughes, Clement L., doing business as Wisco Co., Canton and Peoria, Ill. Medicine for the treatment of leucorrhea, ulcerations of the womb, etc. 175,487; Nov. 6; Serial No. 178,041; published Aug. 28, 1923.
Huyler's, New York, N. Y. Candy. 175,504; Nov. 6; Serial No. 175,657, published June 26, 1923.
Hyatt, Thaddeus P., New York, N. Y. Toothbrushes. 175,379; Nov. 6; Serial No. 169,400; published Aug. 28, 1923.
Hymer, Ralph N., doing business as Hymer's Hair Tonic Co., Salem, Oreg. Medicines for treatment of dandruff and eczema. 175,626; Nov. 6; Serial No. 180,701; published Aug. 21, 1923.
Ideal Coated Paper Company, assignor to McLaurin-Jones Co., Brookfield, Mass. Gummed paper. 175,442; Nov. 6; Serial No. 130,477; published June 19, 1923.
Import Drug Specialties Co., The, Cleveland, Ohio. Candy. 175,601. Nov. 6; Serial No. 178,847; published Aug. 14, 1923.
Independent Breweries Company, The, also doing business as Independent Products Company, St. Louis, Mo. Malt sirup for food purposes. 175,482; Nov. 6; Serial No. 178,849; published Aug. 21, 1923.
Industrial Molded Materials Company, North Tonawanda, N. Y., assignor to Durez Company, Inc. Molding compositions. 175,374; Nov. 6; Serial No. 167,353; published Aug. 28, 1923.
Inland Steel Company, Chicago, Ill. Copper-alloy steel. 175,348; Nov. 6; Serial No. 169,856; published Aug. 14, 1923.
Interlake Tissue Mills Co., Ltd., Merritton, Ontario, Canada. Toilet paper. 175,358. Nov. 6; Serial No. 178,043; published Aug. 14, 1923.

Internationale Galalith-Gesellschaft Hoff & Co., Harburg, Germany. Casein for the production of artificial horn, artificial horn in the form of rods. 175,629; Nov. 6; Serial No. 174,527; published Aug. 21, 1923.
Interocean Oil Company, The, New York, N. Y. Gasoline. 175,533; Nov. 6; Serial No. 181,027; published Aug. 28, 1923.
Jack Tire & Rubber Company, Spokane, Wash. Pneumatic automobile tires and inner tubes. 175,560; Nov. 6; Serial No. 179,601, published Aug. 21, 1923.
Jean, Buena V., doing business as W. F. D. Jean, Baltimore, Md. Coffee. 175,368; Nov. 6; Serial No. 176,626; published Aug. 14, 1923.
Jeffrey Manufacturing Co., The, Columbus, Ohio. Excavating, elevating, and conveying machinery. 175,366; Nov. 6; Serial No. 176,347; published Aug. 21, 1923.
Johns-Manville Incorporated, New York, N. Y. Roofing and shingles. 175,702; Nov. 6.
Johnson & Sons, London, England, and New York, N. Y. Photographic developer. 175,433–4; Nov. 6; Serial Nos. 166,834–5; published Aug. 14, 1923.
Jonkoping och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 175,439; Nov. 6; Serial No. 140,463; published Aug. 28, 1923.
Jonkoping och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 175,439; Nov. 6; Serial No. 140,455; published Aug. 28, 1923.
Jostam Mfg. Co., Chicago, Ill. Recoil pads for guns. 175,462; Nov. 6; Serial No. 182,515; published Aug. 28, 1923.
K & H Products Company, The, Chicago, Ill. Flavored powders from which beverages or soft drinks are made. 175,680; Nov. 6.
K & H Products Company, Chicago, Ill. Beverage sold as a soft drink. 175,681; Nov. 6.
Kahn, William P., Corporation, The, St. Louis, Mo. Chemical preparation for the treatment of the skin. 175,570; Nov. 6; Serial No. 180,980; published Aug. 21, 1923.
Kaminia Perfumery Co. (See Anglo-Indian Drug & Chemical Co.)
Keetle and Keetle, Ashland, Nebr. Preparation for the treatment of fistula. 175,641; Nov. 6; Serial No. 179,604; published Aug. 14, 1923.
Kennedy, William T., doing business as Pacific Rim Tool Co., Cleveland, Ohio. Rim tools. 175,667; Nov. 6.
Keystone Lubricating Company, Philadelphia, Pa. Lubricants. 175,704; Nov. 6.
Kingston Knitting Company (See Brine, James W., Company.)
Kiss and Choka, Moline, Ill. Rail chairs. 175,523; Nov. 6; Serial No. 175,250; published Aug. 21, 1923.
Klein, Alec, doing business as F. L. Klein Noodle Co., Chicago, Ill. Saratoga potato chips, macaroni, egg noodles, and spaghetti. 175,306; Nov. 6; Serial No. 163,154; published Aug. 14, 1923.
Knight, B. B. & R., Inc., Providence, R. I., and New York, N. Y. Sheets and pillowcases. 175,314; Nov. 6; Serial No. 181,489; published Aug. 7, 1923.
Kobylanski, John P., doing business as Five Brothers Medicine Co., Gary, Ind. Liniments and pills. 175,501; Nov. 6; Serial No. 176,838; published Aug. 14, 1923.
Kolar, G. S., Laboratories, Chicago, Ill. Brilliantine, rouge, face powders, etc. 175,397; Nov. 6; Serial No. 152,566; published Jan. 31, 1922.
Kondolf, Henry E., New York, N. Y. Shipping boxes and containers. 175,687; Nov. 6.
Krazifor American Toy Co., Hartford, Conn. Toys. 175,593; Nov. 6; Serial No. 179,476; published Aug. 21, 1923.
Kubota, Seiichi, Tokyo, Japan. Preparation for cancer. 175,426; Nov. 6; Serial No. 173,891; published Aug. 21, 1923.
Kunst & Small Co., New York, N. Y. Woolen, mohair, jute, cotton, silk, and linen fabrics. 175,528; Nov. 6; Serial No. 181,195; published Aug. 28, 1923.
La Borie, Louis, Rochester, N. Y. Toonin, a table game. 175,579; Nov. 6; Serial No. 181,196; published Aug. 21, 1923.
Lamport Company of Texas, Inc., The, Dallas, Tex. Linen, canvas, cotton, and sailcloth in the piece. 175,609; Nov. 6; Serial No. 173,133; published Aug. 28, 1923.
La Société En Nom Collectif J. Thiriez Pere & Fils, Lille, France. Sewing thread. 175,451; Nov. 6; Serial No. 182,919; published Aug. 28, 1923.
Lausser, Frederick, & Son, New York, N. Y. All-wool coating. 175,659; Nov. 6; Serial No. 181,694; published Aug. 21, 1923.
La Vallière Company, The, New Orleans, La. Perfume extract, toilet water, bath salt, talcum powder, etc. 175,419; Nov. 6; Serial No. 169,444; published Mar. 27, 1923.
Lederer, Herbert B., Corp., New York, N. Y. Ginghams. 175,519; Nov. 6; Serial No. 177,089; published Aug. 28, 1923.
Lee, Harry C., & Company, New York, N. Y. Golf balls. 175,595; Nov. 6; Serial No. 179,278; published Aug. 21, 1923.
Lee, Harry C., & Company, New York, N. Y. Tennis rackets. 175,596; Nov. 6; Serial No. 179,277; published Aug. 21, 1923.
Lee-Strauss Co., Johnstown, Pa. Vegetable, mineral, and animal products. 175,653; Nov. 6; Serial No. 181,345; published Aug. 28, 1923.
Leeco Citrus Growers' Association, Fort Myers, Fla. Fresh citrous fruits. 175,615; Nov. 6; Serial No. 180,867; published Aug. 21, 1923.
Leigh Chemist, Inc., New York, N. Y. Perfumes. 175,582; Nov. 6; Serial No. 181,287; published Aug. 28, 1923.
Leigh Chemist, Inc., New York, N. Y. Perfumes. 175,583; Nov. 6; Serial No. 181,288; published Aug. 21, 1923.
Levey Printing Company, Indianapolis, Ind. Filing and other cabinets, desks, stools, etc. 175,336; Nov. 6; Serial No. 173,507; published Aug. 14, 1923.
Levy, Louis, doing business as O. K. Bottler's Supply House, New York, N. Y. Malt sirup. 175,440; Nov. 6; Serial No. 137,287; published Aug. 28, 1923.
Lewgold Imports. (See Goldberg, Ell F.)
Limbaugh, E. E., doing business as The Probaugh Company, Atlanta, Ga. Antiseptic and germicide. 175,409; Nov. 6; Serial No. 175,563; published Aug. 14, 1923.
Linen Thread Company, The, doing business as The Finlayson Flax Spinning Co., Boston, Mass. Linen thread. 175,417; Nov. 6; Serial No. 160,712; published Aug. 28, 1923.
Liquid Carbonic Company, The, Chicago, Ill. Compound of vegetable gums and sugars. 175,600; Nov. 6; Serial No. 178,853; published Aug. 14, 1923.
Little Women Dress Co., New York, N. Y. Ladies' gowns, dresses, and costumes. 175,471; Nov. 6; Serial No. 181,656; published Aug. 28, 1923.
Lowell Products Company. (See Morrissey, Frank T.)
Lubin, Harry, South Orange, N. J. Pipe racks. 175,450; Nov. 6; Serial No. 183,074; published Aug. 28, 1923.
Ludlum Steel Company, Watervliet, N. Y. Alloy steel. 175,413–14; Nov. 6; Serial No. 162,749–50; published Aug. 21, 1923.
McCall, John O., doing business as The Odontex Company, Buffalo, N. Y. Toothbrushes. 175,658; Nov. 6; Serial No. 181,607; published Aug. 21, 1923.
McCandless, John D., Roswell, N. Mex. Preparation for use in the treatment of tuberculosis, asthma, influenza, etc. 175,614; Nov. 6; Serial No. 180,873; published Aug. 14, 1923.
McLaurin-Jones Co. (See Ideal Coated Paper Company, assignor.)
McRoberts, R. W., Atlanta, Ga. Medicine used in the treatment of rickets, etc. 175,613; Nov. 6; Serial No. 180,874; published Aug. 14, 1923.
MacLean Drug Company, Chicago, Ill. Flotation devices, tennis balls, toy vehicles, etc. 175,604; Nov. 6; Serial No. 178,735; published Aug. 21, 1923.
Magnus, S. W., & Co., New York, N. Y. Handkerchiefs. 175,661; Nov. 6; Serial No. 182,160; published Aug. 21, 1923.
Maltese Textile Corporation, New York, N. Y. Cotton goods in the piece. 175,498; Nov. 6; Serial No. 177,498; published Aug. 21, 1923.
Marshall Field & Company, Chicago, Ill. Perfume. 175,478; Nov. 6; Serial No. 179,523; published Aug. 21, 1923.
Marvelette Company, Defiance, Ohio. Hair tonic. 175,632; Nov. 6; Serial No. 179,945; published Aug. 14, 1923.
Mayer, Benjamin, doing business as B. Mayer, New York, N. Y. Salt for curing meat. 175,500; Nov. 6; Serial No. 177,014; published Aug. 28, 1923.
Meisselbach, A. F., Mfg. Co. Inc., New York, N. Y. Fishing reels. 175,606; Nov. 6; Serial No. 173,574; published Aug. 28, 1923.
Melachrino, Miltiades, New York, N. Y. Cigarettes. 175,494; Nov. 6; Serial No. 177,859; published Aug. 21, 1923.
Memphis Sash & Door Co., Memphis, Tenn. Doors and sashes. 175,526; Nov. 6; Serial No. 181,136; published Aug. 21, 1923.
Merrell, J. S., Drug Company, St. Louis, Mo. Boric, carbolic, oxalic, and salicylic acids, denatured alcohol, etc. 175,476–7; Nov. 6; Serial Nos. 179,544–5; published Aug. 21, 1923.
Merrimac Laboratories, Inc., New York, N. Y. Nail polish. 175,631; Nov. 6; Serial No. 180,021; published Aug. 21, 1923.
Metal Specialties Manufacturing Company, Chicago, Ill. Protectors for use on automobiles. 175,703; Nov. 6.
Meyers, H., Co. Inc., New York, N. Y. Silk, cotton, and textiles in the piece and by the yard. 175,663; Nov. 6; Serial No. 182,254; published Aug. 21, 1923.
Microba Antiseptic Co., Grand Forks, N. Dak. Coconut-oil shampoo. 175,648; Nov. 6; Serial No. 180,613; published Aug. 21, 1923.
Mid-Continent Clay Company. (See Esperson, Niels.)
Mid-States Gummed Paper Co., Chicago, Ill. Gummed paper tape, cloth tape, cloth sheets. 175,678; Nov. 6.
Millius, Hesse & Levy, New York, N. Y. Cotton piece goods. 175,448; Nov. 6; Serial No. 183,117; published Aug. 23, 1923.
Milk & Kass, New York, N. Y. Men's shirts. 175,361; Nov. 6; Serial No. 177,449; published Aug. 14, 1923.
Miller Lock Company, Philadelphia, Pa. Frying pans. 175,546; Nov. 6; Serial No. 179,877; published Aug. 21, 1923.
Miller, William, Muncie, Ind. Cough sirup. 175,623; Nov. 6; Serial No. 180,768; published Aug. 14, 1923.

Missouri Egg & Poultry Company, Sedalia, Mo. Eggs, butter. 175,716–17; Nov. 6.
Moore Brothers, Chicago, Ill. Portable self-propelled cranes or derricks. 175,333; Nov. 6; Serial No. 180,077; published Aug. 14, 1923.
Morana, Incorporated, New York, N. Y. Artificial-vanilla materials suitable for the manufacture of flavoring extracts. 175,603; Nov. 6; Serial No. 178,766; published Aug. 14, 1923.
Morrissey, Frank T., doing business as Lowell Products Company, Lowell, Mass. Food-flavoring extracts. 175,392; Nov. 6; Serial No. 158,534; published Aug. 21, 1923.
Motosacoche Société Anonyme, Geneva, Switzerland. Internal-combustion motors and internal-combustion motors for motor cycles, runabouts, etc. 175,329; Nov. 6; Serial No. 180,340; published Aug. 14, 1923.
Muir, Chas. S., doing business as The Polaris Co., Washington, D. C. Parlor board game. 175,584; Nov. 6; Serial No. 181,301; published Aug. 21, 1923.
Nelson, Baker & Company, Detroit, Mich. Face powder and cold cream. 175,569; Nov. 6; Serial No. 180,940; published Aug. 21, 1923.
Neuss, Hesslein & Co. Inc., New York, N. Y. Printed cotton piece goods, bleached and grey cotton piece goods, etc. 175,460; Nov. 6; Serial No. 182,356; published Aug. 28, 1923.
Neuss, Hesslein & Company, Inc., New York, N. Y. Cotton goods in the piece. 175,509; Nov. 6; Serial No. 177,507; published Aug. 28, 1923.
New Jersey Paper Tube Company, Englewood, N. J. Paper drinking straws. 175,515; Nov. 6; Serial No. 175,590; published Aug. 28, 1923.
New York Blue Print Paper Co., New York, N. Y. Tracing paper. 175,298; Nov. 6; Serial No. 181,906; published Aug. 21, 1923.
New York Mackintosh Clothing Company, New York, N. Y. Rainproof garments. 175,592; Nov. 6; Serial No. 179,420; published Aug. 14, 1923.
New York Merchandise Company, New York, N. Y. Handkerchiefs. 175,458; Nov. 6; Serial No. 182,603; published Aug. 28, 1923.
New York Wire & Spring Company, Hoboken, N. J. Automobile bumpers. 175,605; Nov. 6; Serial No. 173,716; published Aug. 28, 1923.
Nicholson File Company, Providence, R. I. Files and rasps. 175,290; Nov. 6; Serial No. 131,918; published Jan. 30, 1923.
Nu-Pep Laboratories. (See Buchanan, J. W.)
O-Ko Remedy Products Co. (See Wojciechowski, Floryan P.)
Odontex Company, The. (See McCall, John O.)
Odorono Company, The, Cincinnati, Ohio. Preparations for reducing perspiration. 175,720; Nov. 6.
Ohio Valley Coffee Co., The, Portsmouth, Ohio. Coffee. 175,357; Nov. 6; Serial No. 178,270; published Aug. 14, 1923.
Organic Preparations Co. Inc., Brooklyn, N. Y. Liquid preparation, remedy, or tonic for nervous diseases, etc. 175,574; Nov. 6; Serial No. 181,040; published Aug. 21, 1923.
Ouillette, Paul, doing business as Fort Kent Drug Company, Fort Kent, Me. Pills for use as a blood purifier and system tonic. 175,639; Nov. 6; Serial No. 179,675; published Aug. 14, 1923.
Pacific Rim Tool Co. (See Kennedy, William T.)
Paristyle Novelty Co. inc., New York, N. Y. Hair nets. 175,673; Nov. 6.
Parke, Davis & Company, Detroit, Mich. Hypnotic and antispasmodic. 175,422; Nov. 6; Serial No. 170,781; published Aug. 21, 1923.
Parke, Davis & Company, Detroit, Mich. Insecticide, antiseptic, and germicide. 175,650; Nov. 6; Serial No. 181,306; published Aug. 21, 1923.
Parker Products, Inc., Boston, Mass. Holders for razor blades during sharpening. 175,587; Nov. 6; Serial No. 180,027; published Aug. 14, 1923.
Pasch, Frank F., Co., Milwaukee, Wis. Beverages sold as soft drinks and sirups for making same. 175,674; Nov. 6.
Patent Novelty Company, Fulton, Ill. Glare-shield attachments for automobile headlights. 175,516; Nov. 6; Serial No. 176,208; published Aug. 28, 1923.
Patjens, Wm. S., doing business as The Exterminating Engineers of America, New York, N. Y. Roach-exterminating poison. 175,622; Nov. 6; Serial No. 180,773; published Aug. 28, 1923.
Peaslee-Gaulbert Co., Louisville, Ky. Varnish stains and paint enamel. 175,588; Nov. 6; Serial No. 179,882; published July 3, 1923.
Peck & Sterba, New York, N. Y. Medical preparations for leucorrhea, cervical catarrh, etc. 175,483; Nov. 6; Serial No. 178,405; published Aug. 28, 1923.
Pendale Woolen Mills, New York, N. Y. Woolen piece goods. 175,447; Nov. 6; Serial No. 183,161; published Aug. 28, 1923.
Peninsular Paper Company, Ypsilanti, Mich. Cover paper. 175,356; Nov. 6; Serial No. 178,279; published Aug. 21, 1923.
Perceval, C., New York, N. Y. Canned caviar. 175,665; Nov. 6.
Peters, William H., doing business as The Red-Ot Company, Providence, R. I. Medicinal preparation. 175,625; Nov. 6; Serial No. 180,722; published Aug. 14, 1923.
Pfaltz & Bauer, Inc., New York, N. Y. Yarns, silks, and threads. 175,474; Nov. 6; Serial No. 181,773; published Aug. 21, 1923.
Pillsbury Flour Mills Company, Minneapolis, Minn. Flour made from wheat. 175,706; Nov. 6.
Pincus & Otto, Hamburg, Germany. Gloves. 175,305; Nov. 6; Serial No. 164,001; published Aug. 14, 1923.
Pingo Company. (See Crocker, Josiah H.)
Pittsburgh Plate Glass Co., Rennous-Kleinle Division, Baltimore, Md. Paint, varnish, whitewash, sash, calcimine, etc., brushes. 175,404; Nov. 6; Serial No. 162,197; published Aug. 21, 1923.
Plant, Theis & Gould Paper Company, Chicago, Ill. Writing, bond, and ledger paper. 175,316; Nov. 6; Serial No. 181,147; published Aug. 21, 1923.
Plant, Theis & Gould Paper Company, Chicago, Ill. Tympan paper. 175,317; Nov. 6; Serial No. 181,146; published Aug. 21, 1923.
Polaris Co., The. (See Muir, Chas. S.)
Polo Manufacturing Company, Clinton, Iowa. Trousers. 175,468; Nov. 6; Serial No. 182,113; published Aug. 28, 1923.
Porter's, Mrs., Salad Dressing, Inc., Seattle, Wash. Mayonnaise, salad, and Thousand Island dressings for salads. 175,608; Nov. 6.
Portland Cordage Co., The, Portland, Oreg. Rope and twine. 175,670; Nov. 6.
Portland Vegetable Oil Mills Co., Portland, Oreg. Coconut-oil cake, stock, and poultry feed, and meal. 175,719; Nov. 6.
Powers-Weightman-Rosengarten Co., Philadelphia, Pa. Barium-sulphate cream for radiologic examination. 175,466; Nov. 6; Serial No. 165,200; published Jan. 2, 1923.
Probaugh Company, The. (See Limbaugh, E. E.)
Procunier, William L., Chicago, Ill. Tapping chucks and attachments, tap holders. 175,672; Nov. 6.
Puffer-Hubbard Manufacturing Company, Minneapolis, Minn. Child's wagon tire. 175,558; Nov. 6; Serial No. 179,551; published Aug. 21, 1923.
Purity Products Co., The, Highland Park, Mich. Beverages sold as soft drinks, and sirups for making same. 175,669; Nov. 6.
Putnam-Hooker Company, The, Cincinnati, Ohio, and New York, N. Y. Gray and colored, bleached, dyed, napped fabrics. 175,398; Nov. 6; Serial No. 148,033; published Aug. 21, 1923.
Pyramid Paint Co., Philadelphia, Pa. Ready-mixed paints. 175,692; Nov. 6.
Pyrene Manufacturing Company, Newark, N. J. Fire-extinguishing compounds. 175,575; Nov. 6; Serial No. 181,043; published Aug. 21, 1923.
Quinlan, Kathleen M., New York, N. Y. Toilet creams and astringents. 175,571; Nov. 6; Serial No. 180,986; published Aug. 21, 1923.
Rathbun, Milo D., Grand Rapids, Mich. Locks for radiator caps for automobiles. 175,591; Nov. 6; Serial No. 179,284; published Aug. 21, 1923.
Raymond, Jules N., doing business as Associated Laboratories and Germ-A-Lax Laboratories, Chicago, Ill. Intestinal germicide and laxative. 175,612; Nov. 6; Serial No. 180,890; published Aug. 14, 1923.
Red-Ot Company, The. (See Peters, William H.)
Regal Supply Corporation, New York, N. Y. Baking powder and cream of tartar. 175,403; Nov. 6; Serial No. 163,111; published Aug. 21, 1923.
Remiller Co., The, New York, N. Y. Rouge. 175,645; Nov. 6; Serial No. 180,723; published Aug. 28, 1923.
Remington Salt Company, Ithaca, N. Y. Salt. 175,676; Nov. 6.
Rey & Rey, Roquefort-sur-Soulzon, France. Machines for slicing and cutting cheese. 175,556; Nov. 6; Serial No. 179,743; published Aug. 21, 1923.
Ricco Company of America, The, Columbus, Ga. Beverages sold as soft drinks. 175,456; Nov. 6; Serial No. 150,470; published Oct. 31, 1922.
Rich Brothers Cereal Company, Cedar Rapids, Iowa. Rolled oats. 175,425; Nov. 6; Serial No. 174,031; published May 15, 1923.
Ridenour-Baker Grocery Company, Kansas City, Mo. Coffee. 175,367; Nov. 6; Serial No. 176,218; published Aug. 14, 1923.
Ringe, Mamie, Philadelphia, Pa. Candies. 175,291; Nov. 6; Serial No. 154,570; published Aug. 14, 1923.
Roberts, P. A., Construction Co., Inc., The, Washington, D. C. Garages. 175,540; Nov. 6; Serial No. 180,619; published Aug. 21, 1923.
Robinson, Albert P., Seattle, Wash. Fireplace throat frames and dampers. 175,701; Nov. 6.
Robinson Silk Company, Inc., New York, N. Y. Silk piece goods. 175,423; Nov. 6; Serial No. 169,500; published Mar. 27, 1923.
Rockcastle Cement & Lime Company, The, Baltimore, Md., and Pine Hill and Mount Vernon, Ky. Lime. 175,561; Nov. 6; Serial No. 179,113; published Aug. 21, 1923.
Rohe & Brother, New York, N. Y. Smoked pork products. 175,339; Nov. 6; Serial No. 171,708; published Aug. 14, 1923.

Rosenberg Bros., New York, N. Y. Ladies' furs. 175,373; Nov. 6; Serial No. 178,675; published Aug. 14, 1923.

Rosenberg, Henry, New York, N. Y. Fur pelts. 175,607; Nov. 6; Serial No. 173,443; published Aug. 21, 1923.

Rothchild, Isidor, New York, N. Y. Quilts and textile blankets. 175,349; Nov. 6; Serial No. 179,961; published Aug. 28, 1923.

Rothschild, Rae, doing business as Everite Novelty Company, New York, N. Y. Writing pads. 175,323; Nov. 6; Serial No. 180,812; published Aug. 14, 1923.

Roubaix Mills, Inc., New York, N. Y. Silk, artificial-silk, cotton, linen, and woolen piece goods. 175,461; Nov. 6; Serial No. 182,359; published Aug. 28, 1923.

Rubay Company, The, Cleveland, Ohio. Gasoline vehicles. 175,390; Nov. 6; Serial No. 171,658; published Aug. 28, 1923.

Rubber-Weld Sales Company, Boston, Mass. Rubber repair outfits. 175,630; Nov. 6; Serial No. 174,215; published Aug. 21, 1923.

"S. & M." Dye Works, Inc., Philadelphia, Pa. Dyed yarns. 175,530; Nov. 6; Serial No. 181,089; published Aug. 21, 1923.

Saco Valley Canning Co., The, Portland, Me. Canned vegetables. 175,682; Nov. 6.

Saginaw Ladder Co., Limited, Saginaw, Mich. Ladders. 175,511; Nov. 6; Serial No. 177,696; published Aug. 28, 1923.

Salem, Joseph D., doing business as Salem Laboratory, Chicago, Ill. Tablets for constipation, liver, kidneys, stomach, and bowels. 175,488–9; Nov. 6; Serial Nos. 178,000–1; published Aug. 21, 1923.

San Francisco Sulphur Co., San Francisco, Calif. Sulphur. 175,654; Nov. 6; Serial No. 181,352; published Aug. 28, 1923.

Scherer, H., & Company, Detroit, Mich. Curtain-window lights and vehicle top fabrics. 175,513; Nov. 6; Serial No. 178,065; published Aug. 28, 1923.

Schroy, L. D., Company, The, Akron, Ohio. Inkwell bases, sponge cups, desk pads, pen trays, etc. 175,327; Nov. 6; Serial No. 180,725; published Aug. 14, 1923.

Schuster Company Incorporated, The, Louisville, Ky. Shirts, neckwear, underwear, sweaters, etc. 175,455; Nov. 6; Serial No. 149,779; published Aug. 14, 1923.

Schwab, H. W., Inc., New York, N. Y. Woolen piece goods. 175,491; Nov. 6; Serial No. 177,925; published Aug. 21, 1923.

Schwab, Louis, doing business as Stevens & Co., New York, N. Y. Tools and appliances for automotive vehicles, etc. 175,375; Nov. 6; Serial No. 168,806; published Aug. 21, 1923.

Seaboard Chemical Company. (See Williams, Martin & Gray, Inc.)

Selrite Products Inc., New York, N. Y. Animated-figure toys. 175,307; Nov. 6; Serial No. 162,318; published Aug. 21, 1923.

Service Equipment Co., Inc., New York, N. Y. Sheetings and pillowcases. 175,446; Nov. 6; Serial No. 183,236; published Aug. 28, 1923.

Sewickley Electric Manufacturing Company, Sewickley, Pa. Electric watt-hour meters. 175,340; Nov. 6; Serial No. 171,554; published Feb. 13, 1923.

Sheffield Mfg. Co., Burr Oak, Mich. Children's hand sleds. 175,628; Nov. 6; Serial No. 174,530; published Aug. 21, 1923.

Sheppard, George W., San Francisco, Calif. Parlor games. 175,370; Nov. 6; Serial No. 175,217; published Aug. 21, 1923.

Shotwell Mfg. Co., Chicago, Ill. Candies. 175,565; Nov. 6; Serial No. 181,456; published Aug. 21, 1923.

Silberstein, Joseph, New York, N. Y. Handkerchiefs. 175,449; Nov. 6; Serial No. 183,088; published Aug. 28, 1923.

Simpson, Wm., Sons & Co., Philadelphia, Pa. Cotton goods in the piece. 175,457; Nov. 6; Serial No. 182,679; published Aug. 28, 1923.

Sire & Petersen Wrench Co., De Witt, Nebr. Wrenches. 175,602; Nov. 6; Serial No. 178,775; published Aug. 21, 1923.

Sitroux Importing Co., Inc., New York, N. Y. Hair nets. 175,445; Nov. 6; Serial No. 183,238; published Aug. 28, 1923.

Skin Cura Co., Inc., The, Cody, Wyo. Ointment for the lips, sunburn, skin abrasions, and cold cream. 175,724; Nov. 6.

Smith, De Calvus, Arkansas City, Kans. Remedy to prevent hemorrhages. 175,656; Nov. 6; Serial No. 181,417; published Aug. 20, 1923.

Smith, Gordon, Mobile, Ala. Bread. 175,722; Nov. 6.

Smith, J. Allen, & Company, Knoxville, Tenn. Plain and self-rising flour. 175,686; Nov. 6.

Smith, M. E., & Co., Inc., Omaha, Nebr. Women's shirts. 173,335; Nov. 6; Serial No. 173,986; published Aug. 14, 1923.

Smucker, Milton C., Chicago, Ill. Tablets for the relief of headache, neuralgia, colds, rheumatism, etc. 175,611; Nov. 6; Serial No. 180,900; published Aug. 28, 1923.

Société Anonyme des Elevateurs de Liquides "Chaine-Helice" Bessonnet-Favre, Chatellerault, France. Conveyer chains for liquids. 175,330; Nov. 6; Serial No. 180,305; published Aug. 14, 1923.

Société Anonyme des Laboratoires Innoxa, Paris, France. Toilet powder, cold cream, eau de Cologne, etc. 175,655; Nov. 6; Serial No. 181,353; published Aug. 14, 1923.

Societe Anonyme Fabriques de Produits de Chimie Organique de Laire, Issy, France. Teas and coffees and tea and coffee extracts and substitutes. 175,372; Nov. 6; Serial No. 174,269; published Aug. 14, 1923.

Societe Generale de Soie Artificielle par le Procede Viscose, Brussels, Belgium. Artificial-silk thread. 175,411; Nov. 6; Serial No. 164,348; published Aug. 21, 1923.

Societe Rodier, Paris, France. Piece goods of silk, cotton, and wool and mixtures of same. 175,542; Nov. 6; Serial No. 180,505; published Aug. 28, 1923.

Societe Vinicole de Champagne, Paris, France. Champagne wine. 175,387; Nov. 6; Serial No. 165,213; published Aug. 28, 1923.

South Georgia Produce Company, Vidalia, Ga. Self-rising flour. 175,428–9; Nov. 6; Serial Nos. 171,966–7; published Mar. 20, 1923.

Southern Specialty Company, Thomasville, Ga. Insecticide. 175,380; Nov. 6; Serial No. 180,902; published Aug. 14, 1923.

Spencer, George C., doing business as Spencer Perfume Company, South Bend, Ind. Face powders and creams, perfumes, etc. 175,572; Nov. 6; Serial No. 180,989; published Aug. 21, 1923.

Standard Oil Company, Whiting, Ind., and Chicago, Ill. Medicinal mineral oils. 175,585; Nov. 6; Serial No. 180,033; published July 31, 1923.

Standard Oil Company (New Jersey), Bayonne, N. J. Lubricating oils. 175,475; Nov. 6; Serial No. 181,661; published Aug. 28, 1923.

Stanley Works, The, New Britain, Conn. Levels. 175,337; Nov. 6; Serial No. 172,297; published Aug. 21, 1923.

Star-Peerless Wall Paper Mills, Joliet, Ill. Ready-mixed paints, varnishes, stains, and paint enamels. 175,507; Nov. 6; Serial No. 178,939; published Aug. 28, 1923.

Stearns, F. U., & Company, New York, N. Y. Cotton piece goods. 175,465; Nov. 6; Serial No. 181,963; published Aug. 23, 1923.

Steelcraft Engineering Company, Marion, Ind. Dies, jigs, special machinery, etc. 175,552; Nov. 6; Serial No. 179,833; published Aug. 21, 1923.

Steiner, Edward F., Baltic, Ohio. Cheese. 175,711; Nov. 6.

Sterling Engine Co., Buffalo, N. Y. Internal-combustion engines. 175,537; Nov. 6; Serial No. 180,777; published Aug. 21, 1923.

Stero-Oil Company. (See Emeis, Harry P.)

Stevens & Co. (See Schwab, Louis.)

Stowell, George L., Waltham, Mass. Preparation for an ointment for corns, bunions, calli, cuts, bruises, etc. 175,431; Nov. 6; Serial No. 166,793; published Aug. 14, 1923.

Strait, J. H., & Company, Redlands, Calif. Fresh citrous fruits. 175,651; Nov. 6; Serial No. 181,319; published Aug. 21, 1923.

Strauss, Levi, & Co., San Francisco, Calif. Shirts, blouses, coats, pants, etc. 175,589; Nov. 6; Serial No. 179,563; published Aug. 14, 1923.

Strawbridge & Clothier, Philadelphia, Pa. Suits. 175,545; Nov. 6; Serial No. 180,151; published Aug. 28, 1923.

Su-Dex Wood Curing Company, Inc., Coscob, Conn., and Brooklyn, N. Y. Treated wood. 175,383–4; Nov. 6; Serial No. 164,606–7; published Aug. 28, 1923.

Sun Maid-Raisin Growers. (See California Associated Raisin Co.)

Sun Patent Developing Co., The, St. Louis, Mo. Shoe heel plates, shoe toe plates, and shoe toe protectors. 175,412; Nov. 6; Serial No. 163,547; published Aug. 21, 1923.

Supplee-Wills-Jones Milk Company, Philadelphia, Pa. Raw, pasteurized, and certified milk, buttermilk. 175,707; Nov. 6.

Swansdown Sanitary Garment Company. (See Brown, James E.)

Tailored Woman, Inc., The, New York, N. Y. Dresses for women. 175,362; Nov. 6; Serial No. 177,148; published Aug. 14, 1923.

Takof Company. (See Chandler, Mary W.)

Tao Tea Company, Inc., New York, N. Y. Tea. 175,345; Nov. 6; Serial No. 171,292; published Aug. 14, 1923.

Taylor, Raymond E., Portland, Oreg. Zinc-chloride antiseptic and deodorant for gums, sore throat, and tonsillitis. 175,382; Nov. 6; Serial No. 180,907; published Aug. 14, 1923.

Terry, Geo. A., Mfg. Co. Inc., Buffalo, N. Y. Dental burs. 175,696; Nov. 6.

Terry, Geo. A., Mfg. Co. Inc., Buffalo, N. Y. Dental burs and hand pieces. 175,697; Nov. 6.

Thayer, W. E., Company, Inc., Mount Vernon, N. Y. Flies. 175,311; Nov. 6; Serial No. 157,781; published Aug. 14, 1923.

Thomas, Howard D., doing business as Howard D. Thomas Co., Seattle, Wash. Windshield cleaners of the squeegee type. 175,541; Nov. 6; Serial No. 180,153; published Aug. 28, 1923.

Thompson-Barlow Company, Inc., The, assignor to El Zair, Inc., New York, N. Y. External lotion. 175,638. Nov. 6; Serial No. 179,752; published Aug. 21, 1923.

Thurston, W. Harris, & Co. Inc., New York, N. Y. Shirtings. 175,405; Nov. 6; Serial No. 160,100; published July 17, 1923.

Touchet Valley Apple Co., Waitsburg, Wash. Fresh apples. 175,436; Nov. 6; Serial No. 180,909; published Aug. 21, 1923.

Touchet Valley Apple Co., Waitsburg, Wash. Fresh apples. 175,381; Nov. 6; Serial No. 180,908; published Aug. 21, 1923.

Tut Manufacturing Company. (See Vaughan, Mabel E.)

Twin Piston Ring Corporation, West Orange, N. J. Piston rings. 175,415; Nov. 6; Serial No. 162,699; published Aug. 21, 1923.

U. R. S. Candy Stores, Inc., New York, N. Y. Candy. 175,710; Nov. 6.

Union Petroleum Company, Philadelphia, Pa. Oils and oiling compositions. 175,531; Nov. 6; Serial No. 180,990; published Aug. 28, 1923.

United Business Equipment Co., Boston, Mass. Folders, cards, guides, stationery, etc. 175,322; Nov. 6; Serial No. 180,910; published Aug. 21, 1923.

United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Nails. 175,297; Nov. 6; Serial No. 182,024; published Aug. 14, 1923.

United States Foil Company, Louisville, Ky. Shredded tin foil for Christmas-tree and other decorative purposes. 175,302; Nov. 6; Serial No. 166,964; published Aug. 21, 1923.

Universal Valve Company, The, New Britain, Conn. Flush valves. 175,689; Nov. 6.

Vanity Fair Silk Mills, Reading, Pa. Vests, bloomers, knickerbockers, drawers, union suits, etc. 175,353; Nov. 6; Serial No. 167,109; published Aug. 14, 1923.

Vanity Fair Silk Mills, Reading, Pa. Veils and silk cloth in the piece. 175,517; Nov. 6; Serial No. 176,583; published Aug. 28, 1923.

Van Raalte Company, Inc., New York, N. Y. Women's underwear. 175,598; Nov. 6; Serial No. 179,020; published Aug. 14, 1923.

Vaughan Mabel E., doing business as Tut Manufacturing Company, Birmingham, Mich. Beverage sold as a soft drink. 175,406; Nov. 6; Serial No. 181,625; published Aug. 28, 1923.

Vogue, The. (See Burgower, L. H.)

Walker, J. C., & Bros., Exmore, Va. Oysters canned or in the shell. 175,396; Nov. 6; Serial No. 155,848; published Mar. 27, 1923.

Walker-Matteson Company, Joliet, Ill. Canned goods, mustard, oatmeal, etc. 175,723; Nov. 6.

Wallenstein Industrial Corp., New York, N. Y. Elastic knitted goods in the piece. 175,664; Nov. 6; Serial No. 182,489; published Aug. 21, 1923.

Wanklyn, Frederic L., Montreal, Quebec, Canada. Railway signal fusees. 175,506; Nov. 6; Serial No. 178,785; published Aug. 28, 1923.

Watkins, Harold C., doing business as Watkins Chemical Company, Scranton, Pa. Beverage sold as a soft drink and sirup for making same. 175,527; Nov. 6; Serial No. 181,157; published Aug. 28, 1923.

Weber & McCrea, Los Angeles, Calif. Binders for books, pamphlets, and papers. 175,318; Nov. 6; Serial No. 180,996; published Aug. 21, 1923.

Welden National Bank, The, St. Albans, Vt. Table sirup and maple sugar. 175,416; Nov. 6; Serial No. 162,088; published Aug. 14, 1923.

Wells, S. C., & Co., Le Roy, N. Y. Herb tea. 175,640; Nov. 6; Serial No. 179,633; published Aug. 21, 1923.

White Company, The, Cleveland, Ohio. Toy vehicles. 175,642; Nov. 6; Serial No. 180,458; published Aug. 21, 1923.

Whitman, Stephen F., & Son, Incorporated, Philadelphia, Pa. Candies. 175,360; Nov. 6; Serial No. 177,642; published Aug. 14, 1923.

Whitney, Henry A., Providence, R. I. Medicinal wafers for bronchial troubles. 175,637; Nov. 6; Serial No. 179,760; published Aug. 21, 1923.

Whitney, Vincent Company, San Francisco, Calif. Casement-window supports. 175,332; Nov. 6; Serial No. 180,091; published Aug. 14, 1923.

Whittier, Charles T., New York, N. Y. Baking powder. 175,503; Nov. 6; Serial No. 175,692; published Aug. 21, 1923.

Wielands Incorporated, doing business as Frederickburg Brewing Company, San Francisco, Calif. Alcoholic malt or cereal beverages. 175,490; Nov. 6; Serial No. 177,942; published Aug. 21, 1923.

Williams, Martin & Gray, Inc., also doing business as Seaboard Chemical Company, Norfolk, Va. Insecticide. 175,634; Nov. 6; Serial No. 179,909; published Aug. 21, 1923.

Winchell, M. M., Co., Pasadena, Calif. Preparation for the treatment of piles. 175,643; Nov. 6; Serial No. 180,093; published Aug. 28, 1923.

Winorr Canning Company, The, Circleville, Ohio. Canned vegetables. 175,435; Nov. 6; Serial No. 180,917; published Aug. 21, 1923.

Wiseo Co., The. (See Hughes, Clement L.)

Wish, Fred A., Incorporated, New York, N. Y. Rubber balloons and inflated balls, toy and doll furniture, etc. 175,647; Nov. 6; Serial No. 180,640; published Aug. 21, 1923.

Wizard Products Company, Chicago, Ill. Twisted-wire brushes. 175,401; Nov. 6; Serial No. 164,682; published Aug. 21, 1923.

Wojciechowski, Floryan P., doing business as O-Ko Remedy Products Co., Toledo, Ohio. Ointment, liniment, and cough sirup. 175,652; Nov. 6; Serial No. 181,328; published Aug. 14, 1923.

Wolf, Sayer & Heller, Inc., Chicago, Ill. Seasonings for meat products. 175,683; Nov. 6.

Wolfe, Abraham, doing business as Wolfe's Shoe Store, Plattsburg, N. Y. Corn salve. 175,502; Nov. 6; Serial No. 176,806; published Aug. 21, 1923.

Wollner & Smith, New York, N. Y. Men's overcoats and suits. 175,363; Nov. 6; Serial No. 177,060; published Aug. 14, 1923.

Wood Brothers Thresher Company, Des Moines, Iowa. Thrashing machines. 175,328; Nov. 6; Serial No. 180,350; published Aug. 14, 1923.

Woodruff, Robert L., doing business as Woodruff Hardware Co., Winder, Ga. Insect-destroying machine. 175,709; Nov. 6.

Wool, F. G., Packing Company, San Jose, Calif. Canned fruit. 175,688; Nov. 6.

Woolfolk, W. T., doing business as Woolfolk Coffee Company, Lexington, Ky. Coffee. 175,289; Nov. 6; Serial No. 147,856; published Aug. 14, 1923.

Wornow, Reuben, New York, N. Y. Ointment for sore, tired, sweating feet. 175,675; Nov. 6.

Wuest, Andrew A., Cincinnati, Ohio. Men's, women's, and children's hosiery. 175,473; Nov. 6; Serial No. 181,800; published Aug. 28, 1923.

Xcluso Auto Trunk & Specialty Corp., New York, N. Y. Hatboxes, suitcases, auto lunch kits, etc. 175,543; Nov. 6; Serial No. 180,572; published Aug. 21, 1923.

Yellow Cab Manufacturing Co., Chicago, Ill. Automobile taxicabs. 175,505; Nov. 6; Serial No. 178,488; published Aug. 28, 1923.

Yellow Cab Manufacturing Co., Chicago, Ill. Automobile taxicabs. 175,514; Nov. 6; Serial No. 178,487; published Aug. 28, 1923.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

A. & W. Products Company, Cleveland, Ohio. Protecta. For Table Mats. 6,953; Nov. 6.

Federal Manufacturing Company, The, Columbus, Ohio. Headlighting Satisfaction. For Tilting Reflectors for Controlling the Positions of Headlight Beams from Light-Projecting Devices. 6,954; Nov. 6.

Federal Manufacturing Company, The, Columbus, Ohio. The Motorists' Eleventh Commandment—Thou Shalt Not Glare. For Tilting Reflectors for Controlling the Positions of Headlight Beams from Light-Projecting Devices. 6,955; Nov. 6.

Schulze Baking Co., Chicago, Ill. Schulze's Cake Eight Varieties. For Cake. 6,956; Nov. 6.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Ackerman, Simon, New York, N. Y. Men's clothing. 181,581–2; Nov. 6.
Amos-James Grocer Co., The, St. Louis, Mo. Canned vegetables, fruits, berries, fish, etc. 176,151; Nov. 6.
Anglo-American Mill Company. (See Sandefur, Charles O., assignor.)
Asher, Chester A., Germantown, Philadelphia, Pa. Candy. 165,477; Nov. 6.
Austin Publishing Company, Chicago, Ill. Weekly publication. 184,809; Nov. 6.
Auto Parts Company. (See Frank, H. G. John.)
Baldassare, Romano, and Co., Frankfort, N. Y. Hair shampoo. 181,717; Nov. 6.
Ballew, Elmer L., Chicago, Ill. Foods. 177,761; Nov. 6.
Bankers Supply Co., The, Denver, Colo., and Chicago, Ill. Publications issued weekly. 183,687; Nov. 6.
Barnard, Paul J., doing business as Paul Jackson Barnard Company, Los Angeles, Calif. Toys. 184,581–2; Nov. 6.
Barron, Anderson Co., Boston, Mass. Men's suits and overcoats. 184,708; Nov. 6.
Bartlett Corporation, The, Philadelphia, Pa. Castor oil. 181,810; Nov. 6.
Bascelli, C., & Bros., Philadelphia, Pa. Relief of carbuncles, tumors, enlarged glands, etc. 173,462; Nov. 6.
Battle Creek Food Company, The, Battle Creek, Mich. Biscuits having laxative properties. 175,058; Nov. 6.
Bergmann, Christian N., Pittsburgh, Pa. Ice cream. 174,651; Nov. 6.
Berkson & Modjeska, Chicago, Ill. Neckties. 184,231; Nov. 6.
Bernet, Craft & Kauffman Milling Co., St. Louis, Mo. Wheat flour. 712,924; Nov. 6.
Beyer-Frey Chemical Company, Inc., Lancaster, Pa. Preparation for exterminating insects. 182,083; Nov. 6.
Bird, Harry S., Newark, N. J. Parlor game. 183,688; Nov. 6.
Blanchard, George E., doing business as Blanco Remedy Company, Mendota, Ill. Preparation for roup, cholera, and white diarrhea for poultry. 179,352; Nov. 6.
Blanco Remedy Company. (See Blanchard, George E.)
Blenheim Club Bottling Co. (See Butler, Chas. H.)
Bloch, Louis, doing business as Louis Bloch & Co., Pittsburgh, Pa. Woven and knit underwear. 176,059; Nov. 6.
Booth, F. E., Co., San Francisco, Calif. Canned fruit. 184,811; Nov. 6.
Booth, F. E., Co., San Francisco, Calif. Canned fish. 185,103; Nov. 6.
British International Corporation, New York, N. Y. Hosiery. 185,408; Nov. 6.
Brown, George K., Company, Inc., Chattanooga, Tenn. Candy. 184,812; Nov. 6.
Brown, Lillie, Brooklyn, N. Y. Foot salve. 178,548; Nov. 6.
Bumble Bee Specialty Co. (See Garcia, Joaquin.)
Bush, Lester C., Columbus, Ohio. Fabric and leather work gloves, pants, etc. 184,232; Nov. 6.
Busy Bee Candy Company, St. Louis, Mo. Chocolates. 182,233; Nov. 6.
Butchart, Cuthbert S., Company, Inc., Rye, N. Y. Golf balls. 168,454; Nov. 6.
Butler, Chas. H., doing business as Blenheim Club Bottling Co., Blenheim, S. C. Beverages sold as soft drinks and syrups for making the same. 185,173; Nov. 6.
C. Y. Rubber Company. (See Yeagle, Curwen S.)
Caldwell, William, doing business as Rex Rubber Novelty Co., New York, N. Y. Rubber balloons, rubber dolls, and squawkers. 184,063; Nov. 6.
Calico Printers' Association, Limited, The, Manchester, England. Cotton piece goods. 184,934; Nov. 6.
California Peach & Fig Growers, Fresno, Calif. Dried peaches and figs. 177,827; Nov. 6.
Capital City Milling & Grain Co., St. Paul, Minn. Wheat flour and stock feeds. 175,845; Nov. 6.
Carrier Chemical Company, Charleston, W. Va. Polishing material for automobiles, etc. 184,711; Nov. 6.
Chaney, Bailey E., Baton Rouge, La. Insecticide. 181,586; Nov. 6.
Chase & Co., Jacksonville, Fla. Preserved, canned, and bottled fruits and canned vegetables. 181,727; Nov. 6.
Chemical Machinery Experiment Co. Inc., New York, N. Y. Ice-manufacturing machines and parts thereof. 164,490; Nov. 6.
Corby Baking Company, Inc., The, Washington, D. C. Bread and cake. 167,294; Nov. 6.

Cresta Blanca Punch Co. (See O'Brien, E. J.)
Cromwell, Robert H., doing business as Normany Products Co., Los Angeles, Calif. Preparation for imparting a glossy appearance to the hair. 181,734; Nov. 6.
Dailey Produce Co. Inc., Brockport, N. Y. Apples. 182,737; Nov. 6.
Dazey Manufacturing Company, Los Angeles, Calif. Metal flower holders. 176,255; Nov. 6.
Dependable Information Bureau, The. (See Zimmer, Ludo L.)
Deutsche Capselin- & Zinnolitwerke Gesellschaft mit beschränkter Haftung, Hamburg-Wandsbek, Germany. Bottle varnishes, adhesive gums, and sealing wax. 166,661; Nov. 6.
Dingfelder & Balish, New York, N. Y. Onions. 184,604; Nov. 6.
Donemar Incorporated, New York, N. Y. Stockings. 184,542; Nov. 6.
Doptoglou Bros. of N. Y., New York, N. Y. Cotton piece goods. 183,444; Nov. 6.
Dwelle-Kaiser Co., The, Buffalo, N. Y. Window glass. 169,628; Nov. 6.
Ebrey Chemical Works, New York, N. Y. Medicines for gallstones, etc., laxative pills, etc. 180,057; Nov. 6.
Economy Plumber Company, The. (See Hercules Chemical Co.)
El Comercio Publishing Corporation, New York, N. Y. Monthly magazine. 184,544; Nov. 6.
Eliason, Frances A., Muscatine County, Iowa. Vaginal suppositories. 178,660; Nov. 6.
Elkin, Joseph, Omaha, Nebr. Refrigerators. 183,264; Nov. 6.
Emlet-Winebrenner Co., Hanover, Pa. Dobell's solution, witch-hazel, chloroform lozenges, etc. 166,052; Nov. 6.
Essentialized Flower Oil Company. (See Herroder, Theodore L.)
Fajans, Caroline R., New York, N. Y. Face powder, nourishing cream, rouges, etc. 181,825; Nov. 6.
Farmakes, George, Neenah, Wis. Candy. 180,113; Nov. 6.
Fernández, Edmundo B., Bayamon, P. I. Alcoholado. 174,830; Nov. 6.
Frank, Eva B., New York, N. Y. Hair curlers. 177,039; Nov. 6.
Frank, H. G. John, doing business as Auto Parts Company, Houston, Tex. Dismembered parts of motor vehicles. 159,749; Nov. 6.
Franklin Manufacturing Company. (See Oppenheim, Oberndorf & Co.)
Friedrich, John, Philadelphia, Pa. Ginger ale, sarsaparilla, and root beer. 184,818; Nov. 6.
Galewski, S., Co. Inc., New York, N. Y. Suitcases, coat cases, cases for containing automobilists' equipment, etc. 161,878; Nov. 6.
Garcia, Joaquin, doing business as Bumble Bee Specialty Co., New York, N. Y. Toy buzzer. 183,566; Nov. 6.
Gerber & Co., A. G., Thoune, Switzerland. Cheese. 182,580; Nov. 6.
Godfrey, Charles L., Corona, N. Y. Tennis racket. 184,242; Nov. 6.
Gold, Ida, Richmond, Va. Preparation for the treatment of rheumatism, etc. 181,886; Nov. 6.
Goodlett, R. F., Tupelo, Miss. Outdoor games. 184,338; Nov. 6.
Greendale Dairy, North Adams, Mich. Creamery butter. 153,974. Nov. 6.
Greenpoint Bird Store. (See Lipkin, Samuel L.)
Hagerstown Dairy Company, Hagerstown, Md. Fresh milk and cream. 180,598; Nov. 6.
Hale Bros., Inc., San Francisco, Calif. Hosiery. 164,703; Nov. 6.
Hale Bros., Inc., San Francisco, Calif. Towels, sheets, pillowcases, etc. 185,019; Nov. 6.
Hanes Hosiery Mills Co., Winston-Salem, N. C. Hosiery. 185,220; Nov. 6.
Harrison, Frank E., Chicago, Ill. Pile salve. 178,843; Nov. 6.
Hercules Chemical Co. Inc., doing business as The Economy Plumber Company, New York, N. Y. Solution for clearing stopped up drain and sewer pipes. 181,446; Nov. 6.
Herroder, Theodore L., doing business as Essentialized Flower Oil Company, Toledo, Ohio. Toilet aromatic oils, face powder, complexion creams, toilet water. 181,990–1; Nov. 6.
Hershey Brothers, Harrisburg, Pa. Milk flour, milk paste, milk-chocolate coating, etc. 162,552; Nov. 6.
Hickey-Freeman Co., Rochester, N. Y. Overcoats and topcoats. 177,378; Nov. 6.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Hillsdale Baking Company, Hillsdale, Mich. Whole-wheat bread. 179,534; Nov. 6.
Hochschild, Kohn & Co., Inc., Baltimore, Md. Corsets, girdles, dresses, etc. 184,450. Nov. 6.
Hofmann, A. C., & Sons, Syracuse, N. Y. Bacon, canned corn beef, corned pork, etc. 171,538; Nov. 6.
Horlick's Malted Milk Company, Racine, Wis. Powdered extracts of grains used as a milk modifier. 182,417. Nov. 6.
Hyde, Pierre C., doing business as The Hyde Drug Company, Massena, N. Y. Tonic and system renovator. 181,893; Nov. 6.
International Mfg. Co., Phillips, Me. Wooden toothpicks. 185,708; Nov. 6.
International Silver Company, Meriden and Bridgeport, Conn. Silver-plated spoons. 181,834; Nov. 6.
Interstate Shade Cloth Co., Hoboken, N. J. Shade cloth of sized and painted fabric. 184,613; Nov. 6.
Jacqueline Frères Limited, London, England. Powder puffs. 166,493; Nov. 6.
Jay-Kay Chemical Company. (See Kardas, John T.)
Jefferson Manufacturing Company, Jefferson City, Mo. Overalls, jackets, work shirts, flannel shirts, etc. 149,753; Nov. 6.
Johnson, Arthur L., Co. of Rhode Island, Providence, R. I. Canned clams and sardines. 183,926; Nov. 6.
Kardas, John T., doing business as Jay-Kay Chemical Company, Baltimore, Md. Skin cream, headache powder, and liniment. 181,897; Nov. 6.
Katzenberg, A. S., & Bro., Baltimore, Md. Aprons and frocks. 185,022; Nov. 6.
Kentwood Ice Manufacturing & Bottling Works, Ltd., Kentwood, La. Ice cream, butter, ice-cream mix, and condensed milk. 178,444–5; Nov. 6.
Keystone Fruit Products Company, Cincinnati, Ohio. Preserved fruit. 177,608; Nov. 6.
Kirkpatrick, John, Richland Center, Wis. Cheese. 172,600; Nov. 6.
Klin, Urban A., doing business as Klin Bros. Golf Mfg. Co., Homewood, Ill. Golf clubs. 184,504; Nov. 6.
Kops Bros., New York, N. Y. Corsets, brassières, and underwear. 184,470; Nov. 6.
Kuhn, Harry D., doing business as H. Dale Kuhn, H. Dale Kuhn Manufacturing Pharmacist, Kuhn Drug Company, and H. Dale Kuhn Laboratory, Shelby, Ohio. Epsom-salts pills. 181,999; Nov. 6.
Langner, Solomon, New York, N. Y. Coconut fats for food purposes. 182,349; Nov. 6.
Levenson, Sam, Newark, N. J. Wheat flour. 163,404; Nov. 6.
Lillie Mill Company, Franklin, Tenn. Self-rising flour. 182,757; Nov. 6.
Lipkin, Samuel L., doing business as Greenpoint Bird Store, Brooklyn, N. Y. Canned bird food. 175,933; Nov. 6.
Little Falls Manufacturing Company, New York, N. Y. Knitted underwear for children. 184,288; Nov. 6.
Loose-Wiles Biscuit Company, Long Island City, N. Y. Biscuits. 181,200; Nov. 6.
Louisville Grocery Co., Louisville, Ky. Canned fruits, vegetables, and fish, rice, macaroni, etc. 180,870; Nov. 6.
Lournay, Inc., Milwaukee, Wis. Rouge, cold cream, lip stick, etc. 179,279; Nov. 6.
McKnight, Earl, Pittsburgh, Pa. Candy and confections. 183,714; Nov. 6.
Maggioros & Rousos, Rochester, N. Y. Oil for mayonnaise and salads. 180,075; Nov. 6.
Margolles, J. B., Wholesale Grocer Co., East St. Louis, Ill. Canned vegetables. 185,029–30; Nov. 6.
Marinello Company, La Crosse, Wis. Rouge and face powder. 182,426; Nov. 6.
Mei Ren Company, Inc., Shanghai, China. Games. 184,557; Nov. 6.
Melloyd Co., Inc. New York, N. Y. Ice cream and frozen confections. 166,531; Nov. 6.
Midland Flour Milling Co., The, Kansas City, Mo. Wheat flour. 180,483; Nov. 6.
Miller, H. H., Industries Company, The, Canton, Ohio. Bottle filling and capping machines and dairy machinery. 182,983; Nov. 6.
Moses, Sydney, New York, N. Y. Dresses. 185,226–7; Nov. 6.
Murata, Mabel L., New York, N. Y. Pharmaceutical preparations, face creams, powders, rouges, etc. 160,715; Nov. 6.
National Association of Marble Dealers, Buffalo, N. Y. Monthly magazine. 185,666; Nov. 6.
National Paint and Varnish Company, The, Cleveland, Ohio. Poster-plant paints, varnishes, and colors. 183,985; Nov. 6.
Nebraska Consolidated Mills Company, Grand Island, Nebr. Wheat flour. 180,881; Nov. 6.
New England Fish Company, Boston, Mass. Canned salmon. 183,530; Nov. 6.
New York Net & Twine Co., Moodus, Conn. Ropes, cords, and twine. 168,120; Nov. 6.
Normany Products Co. (See Cromwell, Robert H.)
Oakland Chemical Company, The, New York, N. Y. Antiseptic and disinfectant compounds. 181,608; Nov. 6.
O'Brien, E. J., doing business as Cresta Blanca Punch Co., also as E. J. O'Brien Company, San Francisco, Calif. Beverage sold as a soft drink. 182,219; Nov. 6.
Oppenheim, Oberndorf & Co., Inc., also doing business as Franklin Manufacturing Company, Baltimore, Md. Plain white, dyed, or printed cotton dress and underwear piece goods. 184,418; Nov. 6.
Osman, Barnet, doing business as Stamford Drug Company, Stamford, Conn. Purgative and laxative. 181,610; Nov. 6.
Pabst Corporation, Milwaukee, Wis. General medicinal tonic. 182,110; Nov. 6.
Packman, Michael, Atlantic City, N. J. Eggs. 182,002; Nov. 6.
Palmer, Richard, New York, N. Y. Hot-water bottles. 162,570; Nov. 6.
Pease, P. L., & Company, Inc., Lancaster, N. Y. Blotter pads, ink wells, envelope racks, etc. 180,941; Nov. 6.
Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Men's and boys' overalls. 183,405; Nov. 6.
Perfumeria Floralia, S. A., Madrid, Spain. Liquid preparation to offset the odors of perspiration. 144,939; Nov. 6.
Perman's Gowns, Inc., New York, N. Y. Ladies' wraps and gowns. 185,376; Nov. 6.
Phillips, Thomas A., Dayton, Ohio. Monthly magazine. 184,149; Nov. 6.
Photoplay Publishing Company, Chicago, Ill., and New York, N. Y. Monthly publication. 177,404; Nov. 6.
Physiological Products Proprietary, Sydney, New South Wales, Australia. Medicine for the treatment of diseases of the internal secreting glands. 179,221; Nov. 6.
Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat flour. 173,379; Nov. 6.
Pinkus, Max, doing business as John Price & Co., Philadelphia, Pa. Bottled mustard, preserved fruits, jellies, etc. 175,733; Nov. 6.
Pioneer Alloy Products Company, Cleveland, Ohio. Metal pipes and metal pipe fittings. 139,628; Nov. 6.
Presto Manufacturing Co., New York, N. Y. Fluid for removing stains from the teeth. 181,569; Nov. 6.
Price, John, & Co. (See Pinkus, Max.)
Public Ledger Company, Philadelphia, Pa. Title for cartoons. 184,870–1; Nov. 6.
Quaker Oats Company, The, Chicago, Ill. Rolled oats and wheat flour. 173,531; Nov. 6.
Rabinow, Murray, New York, N. Y. Men's dress shirts. 184,516; Nov. 6.
Red Star Milling Company, The, Wichita, Kans. Wheat flour, self-rising pancake flour, wheat meal, etc. 178,192; Nov. 6.
Reeside, John B., doing business as Reeside Drug Company, Baltimore, Md. Compound used in the treatment of headache, neuralgia, etc. 176,100; Nov. 6.
Rex Rubber & Novelty Co. (See Caldwell, William.)
Robinson Milling Company, The, Salina, Kans. Wheat flour. 175,946; Nov. 6.
Rochambeau Import & Export Co., New York, N. Y. Perfume bottles. 160,153; Nov. 6.
Rodriguez, Salvador, New York, N. Y. Cigars. 182,263; Nov. 6.
Rosoff, Maurice H., doing business as The Rosoff Pharmacal Company, Philadelphia, Pa. Organic compound of mercury used as a local antiseptic in medicine. 178,773; Nov. 6.
Ryback, James V., doing business as J. V. Ryback's Laboratory, Philadelphia, Pa. Foot powders. 181,781; Nov. 6.
Saenger Drug Company, Inc., Shreveport, La. Preparation for treatment of disorder and disturbed conditions of the female organs. 180,499; Nov. 6.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Coats, cloaks, wraps, capes, etc. 184,518–19; Nov. 6.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Coats, cloaks, wraps, capes, etc. 184,524; Nov. 6.
Sandefur, Charles O., doing business as Sandefur's Cereal Mill, assignor to Anglo-American Mill Company, Owensburg, Ky. Corn meal, cereal feed for poultry, cereal feed for hogs. 180,297; Nov. 6.
Sandefur, Charles O., doing business as Sandefur's Cereal Mill, assignor to Anglo-American Mill Company, Owensburg, Ky. Pancake and Graham flour, cracked cereal food. 180,621; Nov. 6.
Sanitol Chemical Laboratory Company (now by change of name The Sanitol Company), St. Louis, Mo., and New York, N. Y. Shaving soap and powder, shaving-soap cream, toilet soap. 180,242; Nov. 6.
Sanitol Chemical Laboratory Company (now by change of name The Sanitol Company), St. Louis, Mo., and New York, N. Y. Tooth powder and paste, liquid antiseptics, hair tonic, etc. 180,258; Nov. 6.
Scott Manufacturing Company, Chicago, Ill. Toy sectional collapsible building units. 184,366; Nov. 6.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Sheldon, Arthur N., jr., Providence, R. I. House organ published quarterly. 184,801; Nov. 6.
Sherwood Bros. Mfg. Co. Inc., Canastota, N. Y. Children's four-wheeled wagons. 178,677; Nov. 6.
Sierra Pacific Canning Co., San Francisco, Calif. Canned fruits and vegetables. 181,915; Nov. 6.
Simon, Franklin, & Co. Inc., New York, N. Y. Men's and boys' furnishings, undergarments, and clothing. 179,689; Nov. 6.
Simpson, Wm., Sons & Co., Philadelphia, Pa. Warp sateens. 180,147; Nov. 6.
Smith, James H., Turlock, Calif. Fresh cantaloupes, honey dews, and casabas. 179,490; Nov. 6.
Societe Anonyme "Crayons Conte," Regny and Paris, France. Crayons, crayon holders, pencils, penholders, etc. 182,938; Nov. 6.
Société Worth, Paris, France. Perfumes. 182,070; Nov. 6.
Spinks, William A., & Company, Chicago, Ill. Billiard cushions. 184,874; Nov. 6.
St. Joe Valley Line Co., South Bend, Ind. Fishing lines. 184,368; Nov. 6.
Stamford Drug Company. (See Osman, Barnet.)
Standard Corporation, The, Chicago, Ill. Printed publication. 185,057; Nov. 6.
Standard Oil Company of New York, New York, N. Y. Lubricating oils. 175,969; Nov. 6.
Sterling Oil Company of Pennsylvania, Emlenton, Pa. Illuminating and lubricating oils and greases, gasoline, etc. 182,620; Nov. 6.
Stern, Bert, Company, The, Toledo, Ohio. Women's waists and dresses. 184,931; Nov. 6.
Stetson and Ellison Company, Camden, Del. Tomato purée, apple butter, and canned peaches, etc. 184,150; Nov. 6.
Stuarts & Jacks, Limited, Musselburgh, Scotland. Fishing nets. 178,302; Nov. 6.
Sweetwater Cotton Oil Co., Sweetwater, Tex. Feed for livestock. 181,502; Nov. 6.
Sweney Gasoline & Oil Co., Peoria, Ill. Lubricating oils and gasoline. 184,221; Nov. 6.
Tang Company, The. (See Webber, William B.)
Taubert, Henry J., Brighton, Mass. Liquid fertilizers. 183,807; Nov. 6.
Taylor, Arthur W., doing business as Taylor & Taylor, Portland, Oreg. Deodorants and preventives of excessive perspiration. 181,465; Nov. 6.
Teague, Judge P., Sevierville, Tenn. Rheumatism specific. 181,965; Nov. 6.
Thompson Milling Company, Lockport, N. Y. Wheat flour. 173,451; Nov. 6.
Tissuepkt Underwear Company, Indianapolis, Ind. Underwear. 180,565; Nov. 6.
Tryalax Manufacturing Co., Philadelphia, Pa. Medicinal preparation for the stomach and nerves. 181,790; Nov. 6.
Tuurl, Matti, Fairport Harbor, Ohio. Cakes. 173,015; Nov. 6.
Ulmann, Bernhard, Co., Inc., New York, N. Y. Instruction books and similar publications relating to art needlework. 184,697; Nov. 6.
Union Oil Company of California, Los Angeles, Calif. Lubricating oils and gasoline. 172,300; Nov. 6.
Volta Co. of America, Inc., Philadelphia, Pa. Preparation for the treatment of rheumatism, etc. 177,255; Nov. 6.
Vulcan Record Corporation, New York, N. Y. Sound records for phonographs and talking machines. 185,271; Nov. 6.
Wabash Cabinet Co., The, Wabash, Ind. House organ published periodically. 184,154; Nov. 6.
Ward Baking Company, New York, N. Y. Bread. 179,758; Nov. 6.
Watkins, Richard M., doing business as Watkins Hosiery Mills, Chattanooga, Tenn. Ladies' silk hosiery. 184,880; Nov. 6.
Webber, William B., doing busines as The Tang Company, Los Angeles, Calif. Maltless flavoring extracts, emulsions, sirups for soda fountain purposes, etc. 167,858; Nov. 6.
Weiler & Pendleton, Baltimore, Md. Hosiery. 174,049; Nov. 6.
Welsh, William A., Riverton, N. J., and Philadelphia, Pa. Paper and stationery. 166,488; Nov. 6.
West Coast Trading Company, San Francisco, Calif. Incense. 181,577; Nov. 6.
Western California Fish Co., San Francisco, Calif. Canned fish. 168,394; Nov. 6.
White, Harrie W., Cleveland, Ohio. Chewing gum. 185,100; Nov. 6.
Wikoff, Fred D., Company, Red Bank, N. J. Poultry foods. 159,675; Nov. 6.
Wilde, Louis J., Los Angeles, Calif. Lubricating oil, gasoline, kerosene, and sump oil. 183,785; Nov. 6.
Wilh Llevie, G. m. b. H., Stuttgart, Germany. Suits, dresses, coats, and underwear. 179,292; Nov. 6.
Williamson-Haisell-Frasier Co., The, Oklahoma, Okla. Vinegar, raisins, canned vegetables, fruits, milk, etc. 165,323; Nov. 6.
Wilson, Thos. E., & Co., Chicago, Ill. Golf balls. 182,948–9; Nov. 6.
Woolsey, C. A., Paint & Color Company, Jersey City, N. J. Enamel paint. 183,326; Nov. 6.
Wunderlich, C. F., Co. Inc., New York, N. Y. Toilet preparation to be added to the bath for medicinal purposes. 178,943; Nov. 6.
Yeagle, Curwen S., doing business as C. Y. Rubber Company, Baltimore, Md. Tube patches. 164,287; Nov. 6.
Zimmer, Ludo L., doing business as The Dependable Information Bureau, Detroit, Mich. Road maps. 185,236; Nov. 6.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Casein for the production of artificial horn; artificial horn, etc. Internationale Galalith-Gesellschaft Hoff & Co. 175,629; Nov. 6; Serial No. 174,522; published Aug. 21, 1923.
Coal. Elkhorn Coal Company. 175,541; Nov. 6; Serial No. 180,593; published Aug. 21, 1923.
Coal. Harrisburg Colliery Company. 175,459; Nov. 6; Serial No. 182,584; published Aug. 21, 1923.
Cotton, Raw. Anderson, Clayton, & Co. 175,472; Nov. 6; Serial No. 181,808; published Aug. 21, 1923.
Fur pelts. H. Rosenberg. 175,607; Nov. 6; Serial No. 175,443; published Aug. 21, 1923.
Molding composition. Industrial Molded Materials Company. 175,374; Nov. 6; Serial No. 167,353; published Aug. 28, 1923.
Silk waste, partly prepared. Artificial. Abeeco Mill, Inc. 175,547; Nov. 6; Serial No. 179,912; published Aug. 21, 1923.

CLASS 2.

Boxes and containers, Shipping. H. E. Kondolf. 175,687; Nov. 6.

CLASS 3.

Bags, Traveling. Direct Method Company. 175,563; Nov. 6; Serial No. 182,572; published Aug. 28, 1923.
Hatboxes, suitcases, auto lunch kits, etc. Xcluso Auto Trunk & Specialty Corp. 175,543; Nov. 6; Serial No. 180,572; published Aug. 21, 1923.

CLASS 4.

Polishes, Stove. J. H. Crocker. 175,694; Nov. 6.

CLASS 6.

Acid, N-butyl-ethyl-barbituric. Abbott Laboratories. 175,580; Nov. 6; Serial No. 181,233; published Aug. 21, 1923.
Acids, denatured alcohol, etc. Carbolic, oxalic. J. S. Merrell Drug Company. 175,476; Nov. 6. Serial Nos. 179,544–5; published Aug. 21, 1923.
Antiseptic and deodorizer. Dairy Laboratories. 175,492; Nov. 6; Serial No. 177,898; published Aug. 14, 1923.
Antiseptic and germicide. E. E. Limbaugh. 175,409; Nov. 6; Serial No. 175,563; published Aug. 14, 1923.
Baking powder. C. T. Whittier. 175,503; Nov. 6; Serial No. 175,692; published Aug. 21, 1923.
Baking powder and cream of tartar. Regal Supply Corporation. 175,403; Nov. 6; Serial No. 163,111; published Aug. 21, 1923.
Baking powder, bicarbonate of soda, gloss starch. Dudley & Co. 175,635; Nov. 6; Serial No. 179,859; published Aug. 28, 1923.
Barium-sulphate cream for radiologic examination. Powers-Weightman-Rosengarten Co. 175,400; Nov. 6; Serial No. 165,200; published Jan. 2, 1923.
Brilliantine, rouge, face powders, etc. G. S. Kolar Laboratories. 175,397; Nov. 6; Serial No. 152,566; published Jan. 31, 1923.
Chemical composition for tree wounds. Davey Tree Expert Company. 175,424; Nov. 6; Serial No. 183,055; published Aug. 28, 1923.
Chemical preparation for coloring hair. E-Nam O Mfgrs. 175,620; Nov. 6; Serial No. 180,795; published Aug. 14, 1923.
Chemical preparation for preserving fresh sausage. B. Heller & Company. 175,421; Nov. 6; Serial No. 171,125; published Aug. 28, 1923.
Chemical preparation for preserving smoked sausage. B. Heller & Company. 175,420; Nov. 6; Serial No. 171,127; published Aug. 28, 1923.
Compound for treating rheumatism. D. H. Buxton. 175,568; Nov. 6; Serial No. 180,961; published Aug. 21, 1923.
Cough sirup. W. Miller. 175,623; Nov. 6; Serial No. 180,768; published Aug. 14, 1923.

Cream, Fat-reducing. Dainty-Form Company. 175,621; Nov. 6; Serial No. 180,791; published Aug. 14, 1923.
Cream, lip sticks, eyebrow pencils, bath lotions, etc., Cold. Daniels and Fisher Stores Company. 157,359; Nov. 6; published Aug. 1, 1922.
Cream, Rouge vanishing. Danya, Inc. 175,485; Nov. 6; Serial No. 178,231; published Aug. 21, 1923.
Diastase, Concentrated commercial. Ebling Company. 175,577; Nov. 6; Serial No. 181,065; published Aug. 21, 1923.
Dyestuffs. G. Bothamley. 175,432; Nov. 6; Serial No. 171,568; published Aug. 28, 1923.
Emollient for treating feet. E. T. Cook. 175,427; Nov. 6; Serial No. 173,701; published Aug. 21, 1923.
Fire-extinguishing compounds. Pyrene Manufacturing Company. 175,575; Nov. 6; Serial No. 181,043; published Aug. 21, 1923.
Flux, Foundry. Hillside Fluor Spar Mines. 175,636; Nov. 6; Serial No. 179,792; published Aug. 28, 1923.
Germicide and laxative, Intestinal. J. N. Raymond. 175,612; Nov. 6; Serial No. 180,890; published Aug. 14, 1923.
Hair grower and dandruff preparation. C. L. Green. 175,573; Nov. 6; Serial No. 181,023; published Aug. 28, 1923.
Hair tonic. Marvelette Company. 175,632; Nov. 6; Serial No. 179,945; published Aug. 14, 1923.
Healing powder for wounds and sores of livestock. Hickmore Company. 175,481; Nov. 6; Serial No. 179,454; published Aug. 21, 1923.
Herb tea. S. C. Wells & Co. 175,640; Nov. 6; Serial No. 179,633; published Aug. 21, 1923.
Hypnotic and antispasmodic. Parke, Davis & Company. 175,422; Nov. 6; Serial No. 170,781; published Aug. 21, 1923.
Hypophosphites, Preparation of. Fellows Medical Manufacturing Company. 175,495; Nov. 6; Serial No. 177,836; published Aug. 14, 1923.
Insecticide. Southern Specialty Company. 175,380; Nov. 6; Serial No. 180,902; published Aug. 14, 1923.
Insecticide. Williams, Martin & Gray, Inc. 175,634; Nov. 6; Serial No. 179,909; published Aug. 21, 1923.
Insecticide, antiseptic, and germicide. Parke, Davis & Company. 175,650; Nov. 6; Serial No. 181,306; published Aug. 21, 1923.
Insecticides. Commercial Chemical Company. 175,480; Nov. 6; Serial No. 179,460; published Aug. 21, 1923.
Iron and manganese solution for anaemia, etc. E. Galbrun. 175,594; Nov. 6; Serial No. 180,854; published Aug. 28, 1923.
Laxative. W. G. Huffman, jr. 175,497; Nov. 6; Serial No. 177,741; published Aug. 14, 1923.
Liniments and pills. J. F. Kobylanski. 175,501; Nov. 6; Serial No. 176,838; published Aug. 14, 1923.
Liquid-preparation remedy or tonic for nervous diseases. Organic Preparations Co. 175,574; Nov. 6; Serial No. 181,040; published Aug. 21, 1923.
Liver regulator and tonic. D. J. Gunter. 175,499; Nov. 6; Serial No. 177,297; published Aug. 14, 1923.
Lotion, External. Thompson-Barlow Company. 175,638; Nov. 6; Serial No. 179,552; published Aug. 21, 1923.
Lotion, Skin. H. J. Handley. 175,581; Nov. 6; Serial No. 181,276; published Aug. 21, 1923.
Lotions, face creams, and hair pomades. Cannon Toilet Manufacturing Co. 175,484; Nov. 6; Serial No. 178,330; published Aug. 14, 1923.
Meat-curing chemical preparation. B. Heller & Company. 175,430; Nov. 6; Serial No. 171,755; published Aug. 28, 1923.
Medicinal preparations for leucorrhea, etc. Peck & Sterba. 175,483; Nov. 6; Serial No. 178,405; published Aug. 28, 1923.
Medicinal preparation. G. W. Carnrick Co. 175,486; Nov. 6; Serial No. 178,089; published Aug. 28, 1923.
Medicinal preparation. W. H. Peters. 175,625; Nov. 6; Serial No. 180,722; published Aug. 14, 1923.
Medicinal preparation for indigestion, dyspepsia, etc. Bruhoefle Drug Co. 175,576; Nov. 6; Serial No. 181,057; published Aug. 21, 1923.
Medicinal preparations for gonorrhea and syphilis. S. Glickson. 175,402; Nov. 6; Serial No. 164,538; published Aug. 28, 1923.
Medicinal wafers for bronchial troubles. H. A. Whitney. 175,687; Nov. 6; Serial No. 179,760; published Aug. 21, 1923.
Medicine for the treatment of leucorrhea, ulcerations of the womb, etc. C. J. Hughes. 175,487; Nov. 6; Serial No. 178,041; published Aug. 28, 1923.
Medicine used in the treatment of rickets, etc. R. W. McRoberts. 175,613; Nov. 6; Serial No. 180,874; published Aug. 14, 1923.
Medicines for treatment of dandruff and eczema. R. N. Hymer. 175,626; Nov. 6; Serial No. 180,701; published Aug. 21, 1923.
Oils, Medicinal mineral. Standard Oil Company. 175,585; Nov. 6; Serial No. 180,033; published July 31, 1923.
Ointment and cold cream. Skin Cura Co. 175,724; Nov. 6.
Ointment and solution for use in the treatment of eczema and compound for colds and coughs. Colton & Collins, Inc. 175,441; Nov. 6; Serial No. 132,170; published Aug. 8, 1922.
Ointment for sore, tired, sweating feet. R. Wornow. 175,675; Nov. 6.
Ointment, liniment, and cough sirup. F. P. Wojciechowski. 175,652; Nov. 6; Serial No. 181,328; published Aug. 14, 1923.
Peptone and Iodine, Solution containing. E. Galbrun. 175,616; Nov. 6; Serial No. 180,855; published Aug. 14, 1923.
Perfume. Marshall Field & Company. 175,478; Nov. 6; Serial No. 179,523; published Aug. 21, 1923.
Perfume extract, toilet water, bath salt, talcum powder, etc. La Valliere Company. 175,419; Nov. 6; Serial No. 169,444; published Mar. 27, 1923.
Perfumes. Leigh Chemist, Inc. 175,582; Nov. 6; Serial No. 181,287; published Aug. 28, 1923.
Perfumes. Leigh Chemist, Inc. 175,583; Nov. 6; Serial No. 181,288; published Aug. 21, 1923.
Perfumery and hair oil. Anglo-Indian Drug & Chemical Co. 175,410. Nov. 6; Serial No. 166,869; published Aug. 14, 1923.
Photographic developer. Johnson & Sons. 175,423–4; Nov. 6; Serial Nos. 166,834–5; published Aug. 14, 1923.
Pills. F. S. Grey. 175,646; Nov. 6; Serial No. 180,587; published Aug. 28, 1923.
Pills. P. Ouillette. 175,639; Nov. 6; Serial No. 179,675; published Aug. 14, 1923.
Polish, Nail. Merrimac Laboratories, Inc. 175,631; Nov. 6; Serial No. 180,021; published Aug. 21, 1923.
Powder and cold cream, Face. Nelson, Baker & Company. 175,569; Nov. 6; Serial No. 180,940; published Aug. 21, 1923.
Powder, cold cream, eau de Cologne, etc., Toilet. Société Anonyme des Laboratoires Innoxa. 175,655; Nov. 6; Serial No. 181,353; published Aug. 14, 1923.
Powders and creams, perfumes, toilet waters, etc., Face. G. C. Spencer. 175,572; Nov. 6; Serial No. 180,989; published Aug. 21, 1923.
Powders, cold cream, etc., Face and talcum. Armand Company. 175,671; Nov. 6.
Preparation for an ointment for corns, etc., liniment, and foot lotion. G. L. Stowell. 175,431; Nov. 6; Serial No. 166,798; published Aug. 14, 1923.
Preparation for cancer. S. Kubota. 175,426; Nov. 6; Serial No. 173,891; published Aug. 21, 1923.
Preparation for the treatment of piles. M. M. Winchell Co. 175,648; Nov. 6; Serial No. 180,093; published Aug. 28, 1923.
Preparation for the treatment of the skin, Chemical. William P. Kahn Corp. 175,570; Nov. 6; Serial No. 180,980; published Aug. 21, 1923.
Preparation for treatment of fistula. Keetle and Keetle. 175,641; Nov. 6; Serial No. 170,604; published Aug. 14, 1923.
Preparation for treatment of kidney and blood diseases. Festina Bros. 175,619; Nov. 6; Serial No. 180,796; published Aug. 14, 1923.
Preparation for treatment of piles, eczema, etc. S. L. Gravin. 175,712; Nov. 6.
Preparation for use in the treatment of tuberculosis, asthma, etc. J. D. McCandless. 175,614; Nov. 6; Serial No. 180,873; published Aug. 14, 1923.
Preparation for reducing perspiration. Odorono Company. 175,720; Nov. 6.
Preparations for straightening the hair. L. A. Fitzpatrick. 175,633; Nov. 6; Serial No. 179,932; published Aug. 21, 1923.
Remedy to prevent hemorrhages. D. C. Smith. 175,656; Nov. 6; Serial No. 181,417; published Aug. 28, 1923.
Roach-exterminating poison. W. S. Patjens. 175,622; Nov. 6; Serial No. 180,773; published Aug. 28, 1923.
Rouge. Remilier Co. 175,645; Nov. 6; Serial No. 180,723; published Aug. 28, 1923.
Salt. Remington Salt Company. 175,676; Nov. 6.
Salt for curing meat. B. Mayer. 175,500; Nov. 6; Serial No. 177,014; published Aug. 28, 1923.
Salts, Physiological nutritive. J. F. Beerli. 175,493; Nov. 6; Serial No. 177,894; published July 17, 1923.
Salve, Corn. M. Brandes. 175,496; Nov. 6; Serial No. 177,708; published Aug. 21, 1923.
Salve, Corn. A. Wolfe. 175,502; Nov. 6; Serial No. 176,866; published Aug. 21, 1923.
Shampoo, Cocoanut-oil. Microba Antiseptic Co. 175,648; Nov. 6; Serial No. 180,613; published Aug. 21, 1923.
Sulphur. San Francisco Sulphur Co. 175,654; Nov. 6; Serial No. 181,352; published Aug. 28, 1923.
Tablets for constipation, liver, kidneys, stomach, and bowels. J. D. Salem. 175,488–9; Nov. 6; Serial Nos. 178,000–1; published Aug. 21, 1923.
Tablets for the relief of headache, neuralgia, colds, rheumatism, etc. M. C. Smucker. 175,611; Nov. 6; Serial No. 180,900; published Aug. 28, 1923.
Toilet creams and astringents. K. M. Quinlan. 175,571; Nov. 6; Serial No. 180,986; published Aug. 21, 1923.
Tonic, Vegetable general. J. W. Buchanan. 175,578; Nov. 6; Serial No. 181,173; published Aug. 21, 1923.
Vegetable, mineral, and animal products. Lee-Strauss Co. 175,653; Nov. 6; Serial No. 181,345; published Aug. 28, 1923.
Water, Battery. Bethel Springs Water Co. 175,624; Nov. 6; Serial No. 180,744; published Aug. 14, 1923.
Waterproofing composition for application to tennis-racket strings. California By-Products Co. 175,379; Nov. 6; Serial No. 179,514; published Aug. 21, 1923.

Zinc-chloride antiseptic and deodorant for gums, sore throat, etc. R. E. Taylor. 175,382; Nov. 6; Serial No. 180,907; published Aug. 14, 1923.

CLASS 7.

Rope and twine. Portland Cordage Co. 175,670; Nov. 6.

CLASS 8.

Pipe racks. H. Lubin. 175,450; Nov. 6; Serial No. 183,074; published Aug. 28, 1923.

CLASS 9.

Fusees, Railway signal. F. L. Wanklyn. 175,506; Nov. 6; Serial No. 178,785; published Aug. 28, 1923.
Guns, Recoil pads for. Jostam Mfg. Co. 175,462; Nov. 6; Serial No. 182,515; published Aug. 28, 1923.
Matches. Jonkoping och Vulcans Tandsticksfabriksaktiebolag. 175,438; Nov. 6; Serial No. 140,463; published Aug. 28, 1923.
Matches. Jonkoping och Vulcans Tandsticksfabriksaktiebolag. 175,439; Nov. 6; Serial No. 140,455; published Aug. 28, 1923.

CLASS 12.

Bricks. Fiske & Company. 175,693; Nov. 6.
Bricks and roofing tile. Building. N. Esperson. 175,391; Nov. 6; Serial No. 171,587; published Aug. 28, 1923.
Doors and sashes. Memphis Sash & Door Co. 175,526; Nov. 6; Serial No. 181,136; published Aug. 21, 1923.
Garages. P. A. Roberts Construction Co. 175,540; Nov. 6; Serial No. 180,619; published Aug. 21, 1923.
Lime. Rockcastle Cement & Lime Company. 175,561; Nov. 6; Serial No. 179,113; published Aug. 21, 1923.
Roofing and shingles. Johns-Manville Incorporated. 175,702; Nov. 6.
Wood, Treated. Su-Dex Wood Curing Company. 175,383–4; Nov. 6; Serial Nos. 164,606–7; published Aug. 28, 1923.

CLASS 13.

Bridle wires, Rings for stringing. Diamond Expansion Bolt Co. 175,534–5; Nov. 6; Serial Nos. 179,782–3; published Aug. 21, 1923.
Casters. Grennan Cake Corporation. 175,300; Nov. 6; Serial No. 181,503; published Aug. 14, 1923.
Doorstops. J. R. Emery. 175,324; Nov. 6; Serial No. 180,794; published Aug. 14, 1923.
Expansion joints, kettles, floats, etc. T. W. Dahlquist. 175,721; Nov. 6.
Floor and ceiling plates. Beaton & Cadwell Manufacturing Company. 175,714; Nov. 6.
Heel plates, toe plates, and toe protectors, Shoe. Sun Patent Developing Co. 175,412; Nov. 6; Serial No. 163,547; published Aug. 21, 1923.
Hood catches, hood-catch brackets, hood handles, and door handles. Bassick Company. 175,377; Nov. 6; Serial No. 169,906; published Feb. 13, 1923.
Nails. United Shoe Machinery Corporation. 175,297; Nov. 6; Serial No. 182,024; published Aug. 14, 1923.
Pans, Frying. Miller Lock Company. 175,546; Nov. 6; Serial No. 179,877; published Aug. 21, 1923.
Screens, Window and door wire. Hipolito Screen & Sash Co. 175,325; Nov. 6; Serial No. 180,764; published Aug. 14, 1923.
Valves, Flush. Universal Valve Company. 175,689; Nov. 6.
Window supports, Casement-. Vincent Whitney Company. 175,332; Nov. 6; Serial No. 180,091; published Aug. 14, 1923.

CLASS 14.

Alloy steel. Ludlum Steel Company. 175,413–4; Nov. 6; Serial Nos. 142,749–50; published Aug. 21, 1923.
Chairs, Rail. Kiss and Choka. 175,523; Nov. 6; Serial No. 175,250; published Aug. 21, 1923.
Copper-alloy steel. Inland Steel Company. 175,348; Nov. 6; Serial No. 169,856; published Aug. 14, 1923.
Galvanizing. Diamond Expansion Bolt Co. 175,308; Nov. 6; Serial No. 161,822; published Aug. 14, 1923.
Steel billets, sheets, forging, round bars, and rounds. Allegheny Steel Company. 175,559; Nov. 6; Serial No. 179,698; published Aug. 21, 1923.
Steel, Tool. Detroit Alloy Steel Co. 175,303; Nov. 6; Serial No. 166,554; published Aug. 14, 1923.

CLASS 15.

Dental instruments. Lubricating and sterilizing medium for. H. P. Emels. 175,508; Nov. 6; Serial No. 177,433; published Aug. 28, 1923.
Gasoline. Interocean Oil Company. 175,533; Nov. 6; Serial No. 181,027; published Aug. 28, 1923.
Lubricants. Keystone Lubricating Company. 175,704; Nov. 6.
Oils and oiling compositions. Union Petroleum Company. 175,531; Nov. 6; Serial No. 180,990; published Aug. 28, 1923.
Oils, Lubricating. Standard Oil Company (New Jersey). 175,475; Nov. 6; Serial No. 181,661; published Aug. 28, 1923.
Oils, Rustproofing. American Chemical & Manufacturing Corporation. 175,378; Nov. 6; Serial No. 169,432; published Aug. 28, 1923.

CLASS 16.

Paint, linseed oils, floor and furniture polish, etc., Oil. G. M. Budeke. 175,295; Nov. 6; Serial No. 155,044; published Feb. 13, 1923.
Paints. Pyramid Paint Co. 175,692; Nov. 6.
Paints, varnishes, stains, paint enamels, Ready-mixed. Star-Peerless Wall Paper Mills. 175,507; Nov. 6; Serial No. 178,939; published Aug. 28, 1923.
Varnish stains and paint enamel. Peaslee-Gaulbert Co. 175,588; Nov. 6; Serial No. 179,882; published July 3, 1923.

CLASS 17.

Cigarettes. M. Melachrino. 175,494; Nov. 6; Serial No. 177,859; published Aug. 21, 1923.
Cigars. Hallerczyk Cigar Company. 175,399; Nov. 6; Serial No. 165,626; published Aug. 21, 1923.

CLASS 19.

Automobile bumpers. New York Wire & Spring Company. 175,605; Nov. 6; Serial No. 173,716; published Aug. 28, 1923.
Automobile protectors. Metal Specialties Manufacturing Company. 175,703; Nov. 6.
Automobile taxicabs. Yellow Cab Manufacturing Co. 175,505; Nov. 6; Serial No. 178,488; published Aug. 23, 1923.
Automobile taxicabs. Yellow Cab Manufacturing Co. 175,514; Nov. 14; Serial No. 178,487; published Aug. 28, 1923.
Bicycles. Emblem Manufacturing Company. 175,376; Nov. 6; Serial No. 169,160; published Aug. 28, 1923.
Curtain-window lights and vehicle top fabrics. H. Scherer & Company. 175,513; Nov. 6; Serial No. 178,065; published Aug. 28, 1923.
Vehicles, Gasoline. Rubay Company. 175,390; Nov. 6; Serial No. 171,658; published Aug. 28, 1923.

CLASS 22.

Balls, Golf. Gimbel Brothers, Inc. 175,599; Nov. 6; Serial No. 178,916; published Aug. 21, 1923.
Balls, Golf. Harry C. Lee & Company. 175,595; Nov. 6; Serial No. 179,278; published Aug. 21, 1923.
Carrousels. E. Hoppe. 175,660; Nov. 6; Serial No. 181,945; published Aug. 21, 1923.
Dolls and stuffed animals. Davis & Voetsch. 175,466; Nov. 6; Serial No. 181,982; published Aug. 28, 1923.
Dolls, rubber dolls, balloons, and squawkers. W. Caldwell. 175,590; Nov. 6; Serial No. 179,709; published Aug. 21, 1923.
Fish baits and lures, fishing hooks, rods, lines, and reels. James Heddon's Sons. 175,713; Nov. 6.
Fishing lines, Silk. Cortland Line Co. 175,385; Nov. 6; Serial No. 164,386; published Aug. 21, 1923.
Fishing reels. A. F. Meisselbach Mfg. Co. 175,606; Nov. 6; Serial No. 173,574; published Aug. 28, 1923.
Flotation devices, tennis balls, toy vehicles, etc. MacLean Drug Company. 175,604; Nov. 6; Serial No. 178,755; published Aug. 21, 1923.
Game, Parlor board. C. S. Muir. 175,584; Nov. 6; Serial No. 181,301; published Aug. 21, 1923.
Game, Table. L. La Borie. 175,579; Nov. 6; Serial No. 181,196; published Aug. 21, 1923.
Games and toys. American Soldier Co. 175,649; Nov. 6; Serial No. 180,648; published Aug. 21, 1923.
Games, Parlor. G. W. Sheppard. 175,370; Nov. 6; Serial No. 175,217; published Aug. 21, 1923.
Golf-club grips. Armstrong Golf Grip Corporation. 175,668; Nov. 6.
Rubber balloons and inflated balls, etc. Fred A. Wish Incorporated. 175,647; Nov. 6; Serial No. 180,640; published Aug. 21, 1923.
Sleds, Children's hand. Sheffield Mfg. Co. 175,628; Nov. 6; Serial No. 174,530; published Aug. 21, 1923.
Tennis rackets. Harry C. Lee & Company. 175,596; Nov. 6; Serial No. 179,277; published Aug. 21, 1923.
Tin foil, Shredded. United States Foil Company. 175,302; Nov. 6; Serial No. 166,964; published Aug. 21, 1923.
Toy vehicles. Colson Company. 175,437; Nov. 6; Serial No. 148,870; published Aug. 28, 1923.
Toy vehicles. White Company. 175,642; Nov. 6; Serial No. 180,458; published Aug. 21, 1923.
Toys. Krazifor American Toy Co. 175,593; Nov. 6; Serial No. 179,476; published Aug. 21, 1923.
Toys, Animated-figure. Selrite Products Inc. 175,307; Nov. 6; Serial No. 162,318; published Aug. 21, 1923.

CLASS 23.

Chains for liquids, Conveyer. Société Anonyme des Elevateurs de Liquides "Chaine-Helice". Bessonnet-Favre. 175,330; Nov. 6; Serial No. 180,305; published Aug. 14, 1923.
Cheese, Machine for slicing and cutting. Rey & Rey. 175,556; Nov. 6; Serial No. 179,743; published Aug. 21, 1923.
Cranes or derricks. Moore Brothers. 175,333; Nov. 6; Serial No. 180,077; published Aug. 14, 1923.
Dies, jigs, special machinery, etc. Steelcraft Engineering Company. 175,552; Nov. 6; Serial No. 179,833; published Aug. 21, 1923.

Engines, Internal-combustion. Sterling Engine Co. 175,537; Nov. 6; Serial No. 180,777; published Aug. 21, 1923.
Excavating, elevating and conveying machinery. Jeffrey Manufacturing Co. 175,366; Nov. 6; Serial No. 176,347; published Aug. 21, 1923.
Files and rasps. Nicholson File Company. 175,290; Nov. 6; Serial No. 131,918; published Jan. 30, 1923.
Insect-destroying machine. R. L. Woodruff. 175,709; Nov. 6.
Internal-combustion motors and same for motor cycles, runabouts, etc. Motosacoche Société Anonyme. 175,329; Nov. 6; Serial No. 180,340; published Aug. 14, 1923.
Razor blades during sharpening, Holders for. Parker Products, Inc. 175,587; Nov. 6; Serial No. 180,027; published Aug. 14, 1923.
Razor sets, Safety. Gem Safety Razor Corporation. 175,666; Nov. 6.
Rim tools. W. T. Kennedy. 175,667; Nov. 6.
Saws. E. F. Goldberg. 175,319; Nov. 6; Serial No. 180,977; published Aug. 21, 1923.
Tapping chucks and attachments, tap holders. W. L. Procunier. 175,672; Nov. 6.
Thrashing machines. Wood Brothers Thresher Company. 175,328; Nov. 6; Serial No. 180,350; published Aug. 14, 1923.
Tools and appliances for automotive vehicles, etc. L. Schwab. 175,375; Nov. 6; Serial No. 168,806; published Aug. 21, 1923.
Wrenches. Sire & Petersen Wrench Co. 175,602; Nov. 6; Serial No. 178,775; published Aug. 21, 1923.

CLASS 25.

Automobile radiator-cap lock. M. D. Rathbun. 175,591; Nov. 6; Serial No. 179,284; published Aug. 21, 1923.

CLASS 26.

Calculating machines, Pocket. R. Huber. 175,309; Nov. 6; Serial No. 160,288; published Aug. 21, 1923.
Electric watt-hour meters. Sewickley Electric Manufacturing Company. 175,340; Nov. 6; Serial No. 171,554; published Feb. 13, 1923.
Levels. Stanley Works. 175,337; Nov. 6; Serial No. 172,297; published Aug. 21, 1923.
Pictures and animated drawings, Moving. M. Fleischer. 175,288; Nov. 6; Serial No. 148,266; published Nov. 7, 1922.

CLASS 29.

Brushes. Pittsburgh Plate Glass Co., Rennous-Kleinle Division. 175,404; Nov. 6; Serial No. 162,197; published Aug. 21, 1923.
Brushes, Paint, varnish, and calcimine. Hanlon & Goodman Co. 175,389; Nov. 6; Serial No. 170,189; published Aug. 28, 1923.
Brushes, Twisted-wire. Wizard Products Company. 175,401; Nov. 6; Serial No. 164,682; published Aug. 21, 1923.
Toothbrushes. T. P. Hyatt. 175,379; Nov. 6; Serial No. 169,400; published Aug. 28, 1923.
Toothbrushes. J. O. McCall. 175,658; Nov. 6; Serial No. 181,607; published Aug. 21, 1923.
Windshield cleaners of the squeegee type. H. D. Thomas. 175,544; Nov. 6; Serial No. 180,153; published Aug. 28, 1923.

CLASS 32.

Cabinets, desks, stools, etc., Filing and other. Levey Printing Company. 175,336; Nov. 6; Serial No. 173,507; published Aug. 14, 1923.
Furniture, Built-in. C. R. Cox. 175,699; Nov. 6.

CLASS 33.

Glass. Chance Brothers and Co. Limited. 175,467; Nov. 6; Serial No. 182,086; published Aug. 21, 1923.

CLASS 34.

Fireplace throat frames and dampers. A. P. Robinson. 175,701; Nov. 6.
Furnaces. J. Brenner. 175,691; Nov. 6.
Headlights, Glare-shield attachments for automobile. Patent Novelty Company. 175,516; Nov. 6; Serial No. 176,208; published Aug. 28, 1923.
Heaters, Oil. A. J. Alsdorf Corporation. 175,539; Nov. 6; Serial No. 180,678; published Aug. 21, 1923.
Hydrocarbon-fuel burners. Gasifier Company. 175,525; Nov. 6; Serial No. 180,214; published Aug. 21, 1923.
Ovens for gas, gasoline, and oil stoves. American Stove Company. 175,627; Nov. 6; Serial No. 174,720; published Aug. 14, 1923.
Water heaters. General Water Heater Corporation. 175,535; Nov 6; Serial No. 180,856; published Aug. 21, 1923.

CLASS 35.

Piston rings. Twin Piston Ring Corporation. 175,415; Nov. 6; Serial No. 162,699; published Aug. 21, 1923.
Rubber repair outfits. Rubber-Weld Sales Company. 175,630; Nov. 6; Serial No. 174,215; published Aug. 21, 1923.
Tire, Child's wagon. Puffer-Hubbard Manufacturing Company. 175,558; Nov. 6; Serial No. 179,551; published Aug. 21, 1923.
Tires and inner tubes, Pneumatic automobile. Jack Tire & Rubber Company. 175,560; Nov. 6; Serial No. 179,601; published Aug. 21, 1923.
Tires and tubes. Associated Tire Stores Corporation. 175,695; Nov. 6.
Tires, Rubber. Coast Tire and Rubber Company. 175,557; Nov. 6; Serial No. 179,657; published Aug. 21, 1923.

CLASS 37.

Books of blank forms. Brooks-Wilbor-Parsons Company. 175,287; Nov. 6; Serial No. 123,328; published Aug. 14, 1923.
Books, pamphlets, and papers, Binders for. Weber & McCrea. 175,318; Nov. 6; Serial No. 180,996; published Aug. 21, 1923.
Desk sets, pens, writing paper, etc. Gorham Manufacturing Company. 175,293; Nov. 6; Serial No. 152,245; published Aug. 14, 1923.
Files. W. E. Thayer Company. 175,311; Nov. 6; Serial No. 157,781; published Aug. 14, 1923.
Folders, cards, guides, stationery, etc. United Business Equipment Co. 175,322; Nov. 6; Serial No. 180,910; published Aug. 21, 1923.
Inkwell bases, sponge cups, desk pads, etc. L. D. Schroy Company. 175,327; Nov. 6; Serial No. 180,725; published Aug. 14, 1923.
Paper and paper towels, Toilet. Albany Perforated Wrapping Paper Co. 175,284; Nov. 6; Serial No. 182,529; published Aug. 21, 1923.
Paper, Bond. H. P. Andrews Paper Company. 175,351; Nov. 6; Serial No. 167,754; published Aug. 21, 1923.
Paper, Bond, ledger, and writing. Gilbert Paper Co. 175,285; Nov. 6; Serial No. 182,411; published Aug. 21, 1923.
Paper, Cover. Peninsular Paper Company. 175,356; Nov. 6; Serial No. 178,279; published Aug. 21, 1923.
Paper, Gummed. Ideal Coated Paper Company. 175,442; Nov. 6; Serial No. 130,477; published June 19, 1923.
Paper, Index bristol. H. P. Andrews Paper Company. 175,343; Nov. 6; Serial No. 171,405; published Aug. 21, 1923.
Paper, Index bristol. H. P. Andrews Paper Company. 175,352; Nov. 6; Serial No. 167,753; published Aug. 21, 1923.
Paper, Ledger. H. P. Andrews Paper Company. 175,350; Nov. 6; Serial No. 167,757; published Aug. 21, 1923.
Paper, paper napkins, etc., Toilet. Fort Howard Paper Company. 175,286; Nov. 6; Serial No. 182,049; published Aug. 21, 1923.
Paper, paper napkins, towels, and tablecloths, Toilet. Fort Howard Paper Company. 175,326; Nov. 6; Serial No. 180,758; published Aug. 14, 1923.
Paper, Printing and writing. Chicago Paper Company. 175,338; Nov. 6; Serial No. 171,786; published Aug. 21, 1923.
Paper tape, cloth tape, and sheets, Gummed. Mid-States Gummed Paper Co. 175,678; Nov. 6.
Paper, Thin soft. H. P. Andrews Paper Company. 175,342; Nov. 6; Serial No. 171,407; published Aug. 21, 1923.
Paper, Toilet. Interlake Tissue Mills Co. 175,358; Nov. 6; Serial No. 178,043; published Aug. 14, 1923.
Paper, Tracing. New York Blue Print Paper Co. 175,298; Nov. 6; Serial No. 181,906; published Aug. 21, 1923.
Paper, Tympan. Plant, Theis & Gould Paper Company. 175,317; Nov. 6; Serial No. 181,146; published Aug. 21, 1923.
Paper, Writing. Fox River Paper Company. 175,299; Nov. 6; Serial No. 181,688; published Aug. 14, 1923.
Paper, Writing, bond, and ledger. Plant, Theis & Gould Paper Company. 175,316; Nov. 6; Serial No. 181,147; published Aug. 21, 1923.
Penholders and fountain pens. Heidelberger Federhalter-Fabrik Koch, Weber & Co. A.-G. 175,355; Nov. 6; Serial No. 178,339; published Aug. 21, 1923.
Pens, penholders, pencils, etc., Fountain. Heidelberger Federhalter-Fabrik Koch, Weber & Co. A.-G. 175,354; Nov. 6; Serial No. 178,340; published Aug. 21, 1923.
Tablets, Writing. Bedsole-Colvin Drug Co. 175,301; Nov. 6; Serial No. 181,510; published Aug. 14, 1923.
Writing pads. R. Rothschild. 175,323; Nov. 6; Serial No. 180,812; published Aug. 14, 1923.

CLASS 38.

Publication, Quarterly. Delta Sigma Phi Fraternity. 175,292. Nov. 6; Serial No. 153,715; published June 12, 1923.

CLASS 39.

Brassières, corsets, camisoles, chemises, etc. Grande Maison de Blanc, Inc. 175,522; Nov. 6; Serial No. 175,141; published Aug. 28, 1923.
Coats, suits, dresses, and hats, Women's. L. H. Burgower. 175,443; Nov. 6; Serial No. 127,709; published Aug. 7, 1923.
Dresses. J. L. Hudson Co. 175,551; Nov. 6; Serial No. 180,121; published Aug. 28, 1923.
Dresses, costumes, and gowns. Dickes, Block and Abbey. 175,365; Nov. 6. Serial No. 176,538; published Aug. 14, 1923.

Dresses for women. Tailored Woman, Inc. 175,362; Nov. 6; Serial No. 177,148; published Aug. 14, 1923.
Furs, Ladies'. Rosenberg Bros. 175,373; Nov. 6; Serial No. 178,675; published Aug. 14, 1923.
Gloves. Pincus & Otto. 175,305; Nov. 6; Serial No. 164,001; published Aug. 14, 1923.
Gowns, dresses, and costumes, Ladies'. Little Women Dress Co. 175,471, Nov. 6; Serial No. 181,956; published Aug. 28, 1923.
Hosiery. Cliver-Wright-Rainey Co. 175,469; Nov. 6; Serial No. 182,134; published Aug. 28, 1923.
Hosiery. Elizabeth City Hosiery Co. 175,364; Nov. 6; Serial No. 176,888; published Aug. 14, 1923.
Hosiery. F. V. Gutman Corp. 175,594; Nov. 6; Serial No. 179,531; published Aug. 14, 1923.
Hosiery. A. A. Wuest. 175,473; Nov. 6; Serial No. 181,800; published Aug. 28, 1923.
Neckties. Guest Neckwear Co. 175,310; Nov. 6; Serial No. 159,461; published Aug. 14, 1923.
Overcoats and suits, Men's. Wollner & Smith. 175,363; Nov. 6; Serial No. 177,060; published Aug. 14, 1923.
Overcoats and suits, Men's and Boys'. L. Baeffsky. 175,393; Nov. 6; Serial No. 157,910; published Aug. 7, 1923.
Rainproof garments. New York Mackintosh Clothing Company. 175,592; Nov. 6; Serial No. 179,420; published Aug. 14, 1923.
Shirts. Agra Shirt Co. 175,597; Nov. 6; Serial No. 179,126; published Aug. 14, 1923.
Shirts. Bloom & Perla. 175,705. Nov. 6.
Shirts, Men's. Milk & Kass. 175,381; Nov. 6; Serial No. 177,449; published Aug. 14, 1923.
Shirts, neckwear, underwear, etc. Schuster Company. 176,455; Nov. 6; Serial No. 149,779; published Aug. 14, 1923.
Shirts, vests, pants, etc. Levi Strauss & Co. 175,589; Nov. 6; Serial No. 179,561; published Aug. 14, 1923.
Shirts, Women's. M. E. Smith & Co. 175,335; Nov. 6; Serial No. 173,986; published Aug. 14, 1923.
Sport clothes for women. Del Monte-Hickey. 175,334; Nov. 6; Serial No. 174,202; published July 10, 1923.
Suits. Strawbridge & Clothier. 175,545; Nov. 6; Serial No. 180,151; published Aug. 28, 1923.
Suits, Athletic union. Catamount Manufacturing Co. 175,359; Nov. 6; Serial No. 177,831; published Aug. 14, 1923.
Sweaters, rib sport coats, bathing suits, etc. James W. Brine Company. 175,596; Nov. 6; Serial No. 178,708; published Aug. 14, 1923.
Trousers. Polo Manufacturing Company. 175,468; Nov. 6; Serial No. 182,113; published Aug. 28, 1923.
Undergarments, Women's cotton. A. Gussow. 175,320–1; Nov. 6; Serial Nos. 180,928–9; published Aug. 14, 1923.
Underwear, Women's. Van Raalte Company. 175,598; Nov. 6; Serial No. 179,020; published Aug. 14, 1923.
Vests, bloomers, knickerbockers, etc. Vanity Fair Silk Mills. 175,353; Nov. 6; Serial No. 167,109; published Aug. 14, 1923.

CLASS 42.

Carpets, rugs, and draperies. Asia Sales Corporation. 175,567; Nov. 6; Serial No. 181,236; published Aug. 28, 1923.
Coating, All-wool. Frederick Lausser & Son. 175,659; Nov. 6; Serial No. 181,694; published Aug. 21, 1923.
Cotton goods in the piece. Maltese Textile Corporation. 175,498; Nov. 6; Serial No. 177,498; published Aug. 21, 1923.
Cotton goods in the piece. Nemes, Hesslein & Company. 175,509; Nov. 6; Serial No. 177,507; published Aug. 28, 1923.
Cotton goods in the piece. Wm. Simpson, Sons & Co. 175,457; Nov. 6; Serial No. 182,679; published Aug. 28, 1923.
Cotton piece goods. American Bleached Goods Company. 175,452; Nov. 6; Serial No. 182,896; published Aug. 28, 1923.
Cotton piece goods. Edwin E. Berliner & Co. 175,341; Nov. 6; Serial No. 171,446; published Aug. 14, 1923.
Cotton piece goods. Cherokee Spinning Company. 175,455–4; Nov. 6; Serial Nos. 182,788–9; published Aug. 28, 1923.
Cotton piece goods. Millus, Hesse & Levy. 175,448; Nov. 6; Serial No. 183,117; published Aug. 28, 1923.
Cotton piece goods. Nemes, Hesslein & Co. 175,460; Nov. 6; Serial No. 182,256; published Aug. 28, 1923.
Cotton piece goods. F. C. Stearns & Company. 175,465; Nov. 6; Serial No. 181,963; published Aug. 28, 1923.
Cotton piece goods, sheets, pillowcases. Cabarrus Cotton Mills. 175,708; Nov. 6.
Cotton, silk, woolen, etc., piece goods, ribbon. American Lady Corset Company. 175,548; Nov. 6; Serial No. 179,917; published Aug. 28, 1923.
Cretonnes, linens, repps, etc. Atkinson, Wade & Co. 175,608; Nov. 6; Serial No. 173,342; published Aug. 28, 1923.
Fabrics. Putnam-Hooker Company. 175,398; Nov. 6; Serial No. 148,633; published Aug. 21, 1923.
Fabrics in the piece. Pile. Sidney Blumenthal & Co. 175,553; Nov. 6; Serial No. 179,848; published Aug. 28, 1923.
Ginghams. Herbert B. Lederer Corp. 175,519; Nov. 6; Serial No. 177,089; published Aug. 28, 1923.
Hair nets. Paristyle Novelty Co. 175,673; Nov. 6.
Hair nets. Sitroux Importing Co. 175,445; Nov. 6; Serial No. 183,238; published Aug. 28, 1923.
Handkerchiefs. S. W. Magnus & Co. 175,661; Nov. 6; Serial No. 182,166; published Aug. 21, 1923.
Handkerchiefs. New York Merchandise Company. 175,458; Nov. 6; Serial No. 182,603; published Aug. 28, 1923.
Handkerchiefs. J. Silberstein. 175,449; Nov. 6; Serial No. 183,088; published Aug. 28, 1923.
Knitted goods in the piece, Elastic. Wallenstein Industrial Corp. 175,664; Nov. 6; Serial No. 182,489; published Aug. 21, 1923.
Linen, canvas, cotton, and sailcloth piece goods. Lamport Company of Texas, Inc. 175,609; Nov. 6; Serial No. 173,133; published Aug. 28, 1923.
Linings, pocketings, and interlinings. Goetz-Berlin Co. 175,521; Nov. 6; Serial No. 175,485; published Aug. 28, 1923.
Piece goods for draperies. Geo. Brooks & Son Company. 175,644; Nov. 6; Serial No. 180,045; published Aug. 21, 1923.
Pile fabrics in the piece. Sidney Blumenthal & Co. 175,662; Nov. 6; Serial No. 182,201; published Aug. 21, 1923.
Quilts and textile blankets. I. Rothchild. 175,549; Nov. 6; Serial No. 179,961; published Aug. 28, 1923.
Sheetings and pillowcases. Service Equipment Co. 175,446; Nov. 6; Serial No. 183,236; published Aug. 28, 1923.
Sheets and pillowcases. B. B. & R. Knight, Inc. 175,314; Nov. 6; Serial No. 181,489; published Aug. 7, 1923.
Shirtings. W. Harris Thurston & Co. 175,405; Nov. 6; Serial No. 160,100; published July 17, 1923.
Silk, cotton, and textiles in the piece and by the yard. H. Meyers Co. 175,663; Nov. 6; Serial No. 182,254; published Aug. 21, 1923.
Silk, cotton, and wool piece goods and combinations thereof. Arthur Beir & Co. 175,524; Nov. 6; Serial No. 174,953; published Aug. 28, 1923.
Silk, cotton, linen, and woolen piece goods. Haas Brothers Fabrics Corporation. 175,464; Nov. 6; Serial No. 182,344; published Aug. 28, 1923.
Silk, cotton, linen, and woolen piece goods. Roubaix Mills, Inc. 175,461; Nov. 6; Serial No. 182,359; published Aug. 28, 1923.
Silk, cotton, wool, and mixtures of same piece goods. Societe Rodier. 175,542; Nov. 6; Serial No. 180,505; published Aug. 28, 1923.
Silk fabrics. Golding Fabrics Corporation. 175,444; Nov. 6; Serial No. 183,336; published Aug. 28, 1923.
Silk piece goods. Duplan Silk Corporation. 175,563; Nov. 6; Serial No. 178,976; published July 12, 1923.
Silk piece goods. Golding Fabrics Corporation. 175,315; Nov. 6; Serial No. 181,182; published Aug. 14, 1923.
Silk piece goods. Robinson Silk Company. 175,423; Nov. 6; Serial No. 169,500; published Mar. 27, 1923.
Veils and silk cloth in the piece. Vanity Fair Silk Mills. 175,517; Nov. 6; Serial No. 176,583; published Aug. 28, 1923.
Velvets in the piece. Coudurier, Fractus & Deucher. 175,510; Nov. 6; Serial No. 177,548; published Aug. 28, 1923.
Voiles and dress goods in the piece, Cotton. Abraham & Straus, Inc. 175,657; Nov. 6; Serial No. 181,579; published Aug. 21, 1923.
Woolen fabrics. H. Coleman. 175,470; Nov. 6; Serial No. 182,234; published Aug. 28, 1923.
Woolen, mohair, jute, cotton, silk, and linen fabrics. Kunst & Small Co. 175,528; Nov. 6; Serial No. 181,195; published Aug. 28, 1923.
Woolen piece goods. Pendale Woolen Mills. 175,447; Nov. 6; Serial No. 183,161; published Aug. 28, 1923.
Woolen piece goods. H. W. Schwab, Inc. 175,491; Nov. 6; Serial No. 177,925; published Aug. 21, 1923.

CLASS 43.

Thread, Artificial-silk. Societe Generale de Soie Artificielle par le Procede Vimose. 175,411; Nov. 6; Serial No. 164,348; published Aug. 21, 1923.
Thread, Linen. Linen Thread Company. 175,417; Nov. 6; Serial No. 160,712; published Aug. 28, 1923.
Thread, Sewing. La Société En Nom Collectif J. Thiriez Pere & Fils. 175,451; Nov. 6; Serial No. 182,919; published Aug. 28, 1923.
Threads, Linen. Barbour Flax Spinning Co. 175,550; Nov. 6; Serial No. 179,985; published July 31, 1923.
Yarns, Dyed. "S. & M." Dye Works, Inc. 175,530; Nov. 6; Serial No. 181,089; published Aug. 21, 1923.
Yarns, threads, silks. Pfaltz & Bauer, Inc. 175,474; Nov. 6; Serial No. 181,773; published Aug. 21, 1923.

CLASS 44.

Dental burs. Geo. A. Terry Mfg. Co. 175,606; Nov. 6.
Dental burs and hand pieces. Geo. A. Terry Mfg. Co. 175,607; Nov. 6.
Sanitary napkins. J. E. Brown. 175,690; Nov. 6.
Tweezers for removing superfluous hair. M. W. Chandler. 175,538; Nov. 6; Serial No. 180,583; published Aug. 21, 1923.

CLASS 45.

Beverage. K & H Products Company. 175,681; Nov. 6.
Beverage sold as a soft drink. M. E. Vaughan. 175,406; Nov. 6; Serial No. 181,625; published Aug. 28, 1923.
Beverage sold as a soft drink and sirup for making same. H. C. Watkins. 175,527; Nov. 6; Serial No. 181,157; published Aug. 28, 1923.
Beverages and sirups for making same. Frank F. Pasch Co. 175,674; Nov. 6.
Beverages and sirups for making same, Fruit. California Products & Extract Co. 175,418; Nov. 6; Serial No. 160,393; published May 16, 1922.
Beverages sold as soft drinks. Ricco Company of America. 175,456; Nov. 6; Serial No. 150,470; published Oct. 31, 1922.
Beverages sold as soft drinks and sirups for making same. Purity Products Co. 175,669; Nov. 6.
Drinks, Soft. Chicago Whistle Bottling Co. 175,566; Nov. 6; Serial No. 181,379; published Aug. 28, 1923.
Extract, Concentrated malticea. Advance Chemical Company. 175,512; Nov. 6; Serial No. 177,721; published Aug. 28, 1923.
Flavored powders from which soft drinks are made. K & H Products Company. 175,680; Nov. 6.
Flavoring extract for soft drinks. A. G. Elsold. 175,386; Nov. 6; Serial No. 170,129; published Aug. 28, 1923.
Sirup used in making soft drinks. C. J. Dennis. 175,408; Nov. 6; Serial No. 181,516; published Aug. 28, 1923.

CLASS 46.

Almonds. California Almond Growers Exchange. 175,296; Nov. 6; Serial No. 157,024; published May 8, 1923.
Almonds. California Almond Growers Exchange. 175,313; Nov. 6; Serial No. 157,025; published May 8, 1923.
Apples, Fresh. Touchet Valley Apple Co. 175,381; Nov. 6, Serial No. 180,908; published Aug. 21, 1923.
Apples, Fresh. Touchet Valley Apple Co. 175,436; Nov. 6; Serial No. 180,909; published Aug. 21, 1923.
Biscuits and crackers. Frank Goetz Bakery Company. 175,684; Nov. 6.
Bread. G. Smith. 175,722; Nov. 6.
Bread, Bakers'. Burny Bros. 175,679; Nov. 6, 1923.
Candies. M. Ringe. 175,291; Nov. 6; Serial No. 154,570; published Aug. 14, 1923.
Candies, Shotwell Mfg. Co. 175,565; Nov. 6; Serial No. 181,456; published Aug. 21, 1923.
Candies. Stephen F. Whitman & Son, Incorporated. 175,360; Nov. 6; Serial No. 177,642; published Aug. 14, 1923.
Candy. Direct Chocolate Company. 175,536; Nov. 6; Serial No. 180,755; published Aug. 21, 1923.
Candy. Huyler's. 175,504; Nov. 6; Serial No. 175,657; published June 26, 1923.
Candy. Import Drug Specialties Co. 175,601; Nov. 6; Serial No. 178,847; published Aug. 14, 1923.
Candy. U. R. S. Candy Stores, Inc. 175,710; Nov. 6.
Canned caviar. C. Perceval. 175,665; Nov. 6.
Canned citrous fruits. Florida Citrus Exchange. 175,369; Nov. 6; Serial No. 175,719; published Aug. 14, 1923.
Canned fish. Gatlin and Gatlin. 175,407; Nov. 6; Serial No. 181,562; published Aug. 21, 1923.
Canned fish, fruits, and vegetables. R. E. Cotter Co. 175,331; Nov. 6; Serial No. 180,209; published Aug. 14, 1923.
Canned fruit. F. G. Wool Packing Company. 175,688; Nov. 6.
Canned fruits and vegetables. Free & Klinck, Inc. 175,532; Nov. 6; Serial No. 181,020; published Aug. 21, 1923.
Canned goods, catchup, rolled oats, etc. Walker-Matteson Company. 175,723; Nov. 6.
Canned ripe olives and fish. Curtis Corporation. 175,344; Nov. 6; Serial No. 171,305; published Aug. 14, 1923.
Canned salmon. Beegle Packing Co. 175,529; Nov. 6; Serial No. 181,106; published Aug. 21, 1923.
Canned shrimp. Grand Lake & Gulf Shrimp Company. 175,294; Nov. 6; Serial No. 156,740; published Aug. 14, 1923.
Canned shrimp and oysters. Biloxi Packing & Trading Co. 175,394; Nov. 6; Serial No. 158,175; published Jan. 9, 1923.
Canned vegetables. Ephraim Sanitary Canning Company. 175,349; Nov. 6; Serial No. 168,674; published Aug. 14, 1923.
Canned vegetables. Saco Valley Canning Co. 175,682; Nov. 6.
Canned vegetables. Winorr Canning Company. 175,435; Nov. 6; Serial No. 180,917; published Aug. 21, 1923.
Cereals, Breakfast. Battle Creek Food Company. 175,685; Nov. 6.
Cheese. E. F. Steiner. 175,711; Nov. 6.
Chili pepper and chili powder. California Aroma Co. 175,304; Nov. 6; Serial No. 165,527; published Aug. 14, 1923.
Chocolate and candies. H. R. Hoefler. 175,347; Nov. 6; Serial No. 170,107; published Aug. 14, 1923.
Coconut-oil cake, stock and poultry feed, and meal. Portland Vegetable Oil Mills Co. 175,719; Nov. 6.
Coffee. Haas, Baruch & Co. 175,518; Nov. 6; Serial No. 176,623; published Aug. 14, 1923.
Coffee. B. V. Jean. 175,368; Nov. 6; Serial No. 176,026; published Aug. 14, 1923.
Coffee. Ohio Valley Coffee Co. 175,357; Nov. 6; Serial No. 178,270; published Aug. 14, 1923.
Coffee. Ridenour-Baker Grocery Company. 175,367; Nov. 6; Serial No. 176,218; published Aug. 14, 1923.
Coffee. W. T. Woolfolk. 175,289; Nov. 6; Serial No. 147,856; published Aug. 14, 1923.
Compound used in preparation of jellies, desserts, etc. Genesee Pure Food Company. 175,564; Nov. 6; Serial No. 178,998; published Aug. 21, 1923.
Eggs and butter. Missouri Egg & Poultry Company. 175,716-17; Nov. 6.
Flavoring extracts and jellies, Food-. Garrett and Co. 175,610; Nov. 6; Serial No. 172,644; published Aug. 14, 1923.
Flavoring extracts, Food-. F. T. Morrissey. 175,392; Nov. 6; Serial No. 158,534; published Aug. 21, 1923.
Flour. J. Allen Smith & Company. 175,686; Nov. 6.
Flour made from wheat. Pillsbury Flour Mills Company. 175,706; Nov. 6.
Flour, Self-rising. Ford Flour Company. 175,700; Nov. 6.
Flour, Self-rising. South Georgia Produce Company. 175,428–9; Nov. 6; Serial Nos. 171,966–7; published Mar. 20, 1923.
Flour, Wheat. Ford Flour Company. 175,677; Nov. 6.
Fruits, Fresh citrous. C. O. Banks. 175,618; Nov. 6; Serial No. 180,831; published Aug. 21, 1923.
Fruits, Fresh citrous. Leeco Citrus Growers' Association. 175,615; Nov. 6; Serial No. 180,867; published Aug. 21, 1923.
Fruits, Fresh citrous. J. H. Strait & Company. 175,651. Nov. 6; Serial No. 181,319; published Aug. 21, 1923.
Hams and bacon. Barrington Packing Co. 175,715; Nov. 6.
Ice-cream confections. F. R. Brown. 175,718; Nov. 6.
Jams. J. C. Forkner Fig Gardens, Incorporated. 175,346; Nov. 6; Serial No. 171,071; published Aug. 14, 1923.
Mayonnaise, salad and Thousand Island dressings for salads. Mrs. Porter's Salad Dressing, Inc. 175,698; Nov. 6.
Milk and buttermilk. Supplee-Wills-Jones Milk Company. 175,707; Nov. 6.
Nut butter. Battle Creek Food Company. 175,371; Nov. 6; Serial No. 175,057; published Aug. 14, 1923.
Oats, Rolled. Rich Brothers Cereal Company. 175,425; Nov. 6; Serial No. 174,031; published May 15, 1923.
Olives. Bolivar Packing Company. 175,617; Nov. 6; Serial No. 180,885; published Aug. 21, 1923.
Oysters. J. C. Walker & Bros. 175,396; Nov. 6; Serial No. 155,848; published Mar. 27, 1923.
Pork products, Smoked. Rohe & Brother. 175,339; Nov. 6, Serial No. 171,708; published Aug. 14, 1923.
Potato chips, macaroni, egg noodles, and spaghetti. A. Klein. 175,306; Nov. 6; Serial No. 163,154; published Aug. 14, 1923.
Raisins and candy. California Associated Raisin Co. 175,312; Nov. 6; Serial No. 157,758; published Aug. 14, 1923.
Seasonings for meat products. Wolf, Sayer & Heller, Inc. 175,683; Nov. 6.
Sirup and maple sugar, Table. Welden National Bank. 175,416; Nov. 6; Serial No. 162,088; published Aug. 14, 1923.
Sirup for food purposes, Malt. Independent Breweries Company. 175,482; Nov. 6; Serial No. 178,849; published Aug. 21, 1923.
Tea. Tao Tea Company. 175,345; Nov. 6; Serial No. 171,292; published Aug. 14, 1923.
Teas, coffees, and tea and coffee extracts and substitutes. Societe Anonyme Fabriques de Produits de Chimie Organique de Laire. 175,372; Nov. 6; Serial No. 174,269; published Aug. 14, 1923.
Vanilla materials, Artificial-. Morana, Incorporated 175,603; Nov. 6; Serial No. 178,766; published Aug. 14, 1923.
Vegetable gums and sugars, Compound. Liquid Carbonic Company. 175,600; Nov. 6; Serial No. 178,853; published Aug. 14, 1923.

CLASS 47.

Wine, Champagne. Societe Vinicole de Champagne. 175,387; Nov. 6; Serial No. 165,213; published Aug. 18, 1923.

CLASS 48.

Beverages, Alcoholic malt or cereal. Wielands Incorporated. 175,490; Nov. 6; Serial No. 177,942; published Aug. 21, 1923.
Sirup, Malt. L. Levy. 175,440; Nov. 6; Serial No. 137,287; published Aug. 28, 1923.

CLASS 50.

Ladders. Saginaw Ladder Co. 175,511; Nov. 6; Serial No. 177,696; published Aug. 28, 1923.

Letters and figures of resilient material, Interchangeable cut-to-shape. Davenport-Taylor Mfg. Company. 175,520; Nov. 6; Serial No. 175,571; published June 5, 1923.

Paper drinking straws. New Jersey Paper Tube Company. 175,515; Nov. 6; Serial No. 175,590; published Aug. 28, 1923.

Signs for mechanical advertising purposes. H. C. Dawson. 175,562; Nov. 6; Serial No. 179,033; published Aug. 21, 1923.

Stepladders. Baker, Hamilton & Pacific Company. 175,388; Nov. 6; Serial No. 170,352; published Aug. 28, 1923.

ALPHABETICAL LIST OF PRINTS.

Headlighting Satisfaction. For Tilting Reflectors for Controlling the Positions of Headlight Beams from Light-Projecting Devices. Federal Manufacturing Company. 6,954; Nov. 6.

Protecta. For Table Mats. A. & W. Products Company. 6,953; Nov. 6.

Schulze's Cake Eight Varieties. For Cake. Schulze Baking Co. 6,956; Nov. 6.

The Motorists' Eleventh Commandment—Thou shalt Not Glare. For Tilting Reflectors for Controlling the Positions of Headlight Beams from Light-Projecting Devices. Federal Manufacturing Company. 6,955; Nov. 6.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 2.

Bottles, Perfume. Rochambeau Import & Export Co. 160,153; Nov. 6.

CLASS 3.

Suitcases, Coat cases, etc. S. Galewski Co. 161,878; Nov. 6.

CLASS 4.

Soap, shaving powder, etc., Shaving. Sanitol Chemical Laboratory Company. 180,242; Nov. 6.

CLASS 5.

Varnishes, adhesive gums, and sealing wax, Bottle. Deutsche Capsellin- & Zinnolitwerke Gesellschaft mit beschränkter Haftung. 166,661; Nov. 6.

CLASS 6.

Alcoholado, E. B. Fernández. 174,830; Nov. 6.
Antiseptic and disinfectant compounds. Oakland Chemical Company. 181,608; Nov. 6.
Compound used in the treatment of headache, neuralgia, etc. J. B. Reeside. 176,100; Nov. 6.
Cream, headache powder, and liniment, Skin. J. T. Kardas. 181,987; Nov. 6.
Deodorants and preventives of excessive perspiration. A. W. Taylor. 181,465; Nov. 6.
Dobell's solution, witch-hazel, chloroform, etc. Emlet-Winebrenner Co. 166,052; Nov. 6.
Fluid for removing stains from the teeth. Presto Manufacturing Co. 181,569; Nov. 6.
Hair shampoo. Romano Baldassare and Co. 181,717; Nov. 6.
Incense. West Coast Trading Company. 181,577; Nov. 6.
Insecticide. B. E. Chaney. 181,586; Nov. 6.
Liquid preparation to offset the odors of perspiration. Perfumeria Floralia, S. A. 144,939; Nov. 6.
Medicinal preparation. Tryalax Manufacturing Co. 181,790; Nov. 6.
Medicine for treatment of diseases of the internal secreting glands. Physiological Products Proprietary. 179,221; Nov. 6.
Medicines for gallstones, laxative pills, etc. Ebrey Chemical Works. 180,057; Nov. 6.
Mercury, Organic compound of. M. H. Rosoff. 178,773; Nov. 6.
Oil, Castor. Bartlett Corporation. 181,810; Nov. 6.
Oils, face powder, complexion creams, toilet water, Toilet aromatic. T. L. Herroder. 181,990–1; Nov. 6.
Perfumes. Société Worth. 182,070; Nov. 6.
Pharmaceutical preparations, face creams, powders, etc. M. L. Murata. 180,715; Nov. 6.
Powder, nourishing cream, rouges, etc., Face. C. R. Fajans. 181,825; Nov. 6.
Powder, tooth paste, liquid antiseptics, etc., Tooth. Sanitol Chemical Laboratory Company. 180,258; Nov. 6.
Powders, Foot. J. V. Ryback. 181,781; Nov. 6.
Preparation for exterminating insects. Beyer-Frey Chemical Company. 182,083; Nov. 6.
Preparation for roup, etc., for poultry. G. E. Blanchard. 179,352; Nov. 6.
Preparation for the hair. R. H. Cromwell. 181,734; Nov. 6.
Preparation for the treatment of disorders and disturbed conditions of the female organs. Saenger Drug Company. 180,490; Nov. 6.
Preparation for the treatment of rheumatism, etc. I. Gold. 181,886; Nov. 6.
Preparation for the treatment of rheumatism, etc. Volta Co. of America, Inc. 177,255. Nov. 6.
Purgative and laxative. B. Osman. 181,610; Nov. 6.
Relief of carbuncles, tumors, etc. C. Bascelli & Bros. 173,462; Nov. 6.
Rouge and face powder. Marinello Company. 182,426; Nov. 6.
Rouge, cold cream, lip stick, etc. Lournay, Inc. 179,279; Nov. 6.
Salts pills, Epsom-. H. D. Kuhn. 181,999; Nov. 6.
Salve, Foot. L. Brown. 178,548; Nov. 6.
Salve, Pile. F. E. Harrison. 178,843; Nov. 6.
Solution for clearing stopped up drain and sewer pipes. Hercules Chemical Co. 181,446; Nov. 6.
Specific, Rheumatism. J. P. Teague. 181,965; Nov. 6.
Suppositories, Vaginal. F. A. Eliason. 178,660; Nov. 6.
Toilet preparation. C. F. Wunderlich Co. 178,943; Nov. 6.
Tonic and system renovator. P. C. Hyde. 181,893; Nov. 6.
Tonic, Medicinal. Pabst Corporation. 182,110; Nov. 6.

CLASS 7.

Ropes, cords, and twine. New York Net & Twine Co. 168,120; Nov. 6.

CLASS 10.

Fertilizers, Liquid. H. J. Taubert. 183,807; Nov. 6.

CLASS 13.

Flower holders, Metal. Dazey Manufacturing Company. 176,255; Nov. 6.
Pipes and metal pipe fittings, Metal. Pioneer Alloy Products Company. 139,628; Nov. 6.

CLASS 15.

Oil, gasoline, and kerosene, etc., Lubricating. L. J. Wilde. 183,785; Nov. 6.
Oils and gasoline, Lubricating. Sweney Gasoline & Oil Co. 184,221; Nov. 6.
Oils and gasoline, Lubricating. Union Oil Company of California. 172,300; Nov. 6.
Oils and greases, etc. Sterling Oil Company of Pennsylvania. 182,620; Nov. 6.
Oils, Lubricating. Standard Oil Company of New York. 175,969; Nov. 6.

CLASS 16.

Paint, Enamel. C. A. Woolsey Paint & Color Company. 183,326; Nov. 6.
Paints, varnishes, and colors. National Paint and Varnish Company. 183,985; Nov. 6.
Polishing material for automobiles, etc. Carrier Chemical Company. 184,711; Nov. 6.

CLASS 17.

Cigars. S. Rodriguez. 182,263; Nov. 6.

CLASS 22.

Balls, Golf. Cuthbert S. Butchart Company. 168,454; Nov. 6.
Balls, Golf. Thos. E. Wilson & Co. 182,948–9; Nov. 6.
Billiard cushions. William A. Spinks & Company. 184,874; Nov. 6.
Fishing lines. St. Joe Valley Line Co. 184,368; Nov. 6.
Fishing nets. Stuarts & Jacks, Limited. 178,302; Nov. 6.
Game, Parlor. H. S. Bird. 183,688; Nov. 6.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Games. Mei Ren Company. 184,557; Nov. 6.
Games, Outdoor. R. F. Goodlett. 184,338; Nov. 6.
Golf clubs. U. A. Klin. 184,504; Nov. 6.
Rackets, Tennis. C. L. Godfrey. 184,242; Nov. 6.
Rubber balloons, dolls, and squawkers. W. Caldwell. 184,063; Nov. 6.
Toy buzzer. J. Garcia. 183,566; Nov. 6.
Toy sectional collapsible building units. Scott Manufacturing Company. 184,366; Nov. 6.
Toys. P. J. Barnard. 184,581–2; Nov. 6.
Wagons, Children's. Sherwood Bros. Mfg. Co. 178,677; Nov. 6.

CLASS 23.

Bottle filling and capping machines and dairy machinery. H. H. Miller Industries Company. 182,983; Nov. 6.
Vehicles, Dismembered parts of motor. H. G. J. Frank. 159,749; Nov. 6.

CLASS 28.

Spoons, Silver-plated. International Silver Company. 181,834; Nov. 6.

CLASS 29.

Powder puffs. Jacqueline Frères Limited. 166,493; Nov. 6.

CLASS 31.

Ice manufacturing machines and parts thereof. Chemical Machinery Experiment Co. 164,490; Nov. 6.
Refrigerators. J. Elkin. 183,264; Nov. 6.

CLASS 33.

Glass, Window. Dwelle-Kaiser Co. 169,628; Nov. 6.

CLASS 35.

Tube patches. C. S. Yeagle. 164,287; Nov. 6.

CLASS 36.

Phonographs and talking machines, Sound records for. Vulcan Record Corporation. 185,271; Nov. 6.

CLASS 37.

Blotter pads, rocking blotters, inkwells, etc. P. L. Pease & Company. 180,941; Nov. 6.
Crayons, crayon holders, pencils, pencil holders, etc. Societe Anonyme "Crayons Conte." 182,938; Nov. 6.
Paper and stationery. W. A. Welsh. 166,488; Nov. 6.

CLASS 38.

Books, etc., relating to art needlework, Instruction. Bernhard Ulmann Co. 184,697; Nov. 6.
Cartoon title. Public Ledger Company. 184,870–1; Nov. 6.
House organ published periodically. Wabash Cabinet Co. 184,154; Nov. 6.
House organ published quarterly. A. N. Sheldon, jr. 184,801; Nov. 6.
Magazine, Monthly. El Comercio Publishing Corporation. 184,544; Nov. 6.
Magazine, Monthly. National Association of Marble Dealers. 185,666; Nov. 6.
Magazine, Monthly. T. A. Phillips. 184,149; Nov. 6.
Maps, Road. L. L. Zimmer. 185,236; Nov. 6.
Publication, Monthly. Photoplay Publishing Company. 177,404; Nov. 6.
Publication, Printed. Standard Corporation. 185,057; Nov. 6.
Publication, Weekly. Austin Publishing Company. 184,809; Nov. 6.
Publications, Weekly. Bankers Supply Co. 183,687; Nov. 6.

CLASS 39.

Aprons and frocks. A. S. Katzenberg & Bro. 185,022; Nov. 6.
Clothing, Men's. S. Ackerman. 181,581–2; Nov. 6.
Coats, cloaks, wraps, capes, etc. Salt's Textile Manufacturing Company. 184,518–19; Nov. 6.
Coats, cloaks, wraps, capes, etc. Salt's Textile Manufacturing Company. 184,524; Nov. 6.
Coats, waistcoats, bath robes, etc., Men's and boys' house. Franklin Simon & Co. 179,689; Nov. 6.
Corsets, brassières, and underwear. Kops Bros. 184,470; Nov. 6.
Corsets, girdles, dresses, etc. Hochschild, Kohn & Co. 184,450; Nov. 6.
Dresses. S. Moses. 185,226–7; Nov. 6.
Gloves, pants, etc., Fabric and leather. L. C. Bush. 184,232; Nov. 6.
Hosiery. British International Corporation. 185,408; Nov. 6.
Hosiery. Hale Bros., Inc. 164,703; Nov. 6.
Hosiery. Hanes Hosiery Mills Co. 185,220; Nov. 6.
Hosiery. Weller & Pendleton. 174,049; Nov. 6.
Hosiery, Ladies' silk. R. M. Watkins. 184,880; Nov. 6.
Neckties. Berkson & Modjeska. 184,231; Nov. 6.
Overalls. J. C. Penney Company. 183,405; Nov. 6.
Overalls, jackets, work shirts, etc. Jefferson Manufacturing Company. 149,753; Nov. 6.
Overcoats and topcoats. Hickey-Freeman Co. 177,378; Nov. 6.
Shirts, Men's dress. M. Rabinow. 184,516; Nov. 6.
Stockings, Donemar Incorporated. 184,542; Nov. 6.
Suits and overcoats, Men's. Barron, Anderson Co. 184,708; Nov. 6.
Suits, dresses, coats, and underwear. Wilh. Bleyle, G. m. b. H. 179,292; Nov. 6.
Underwear for children, Knitted. Little Falls Manufacturing Company. 184,288; Nov. 6.
Underwear, Knitted and textile fabric. Tissuepkt Underwear Company. 180,565; Nov. 6.
Underwear, Woven and knit. L. Bloch. 176,059; Nov. 6.
Waists and dresses, Women's. Bert Stern Company. 184,931; Nov. 6.
Wraps and gowns, Ladies'. Perman's Gowns Inc. 185,376; Nov. 6.

CLASS 40.

Hair curlers. E. B. Frank. 177,039; Nov. 6.

CLASS 42.

Cotton dress and underwear piece goods. Oppenheim, Oberndorf & Co. 184,418; Nov. 6.
Cotton piece goods. Calico Printers' Association, Limited. 184,934; Nov. 6.
Cotton piece goods. Doptoglou Bros. of N. Y. 183,444; Nov. 6.
Sateens, Warp. Wm. Simpson, Sons & Co. 180,147; Nov. 6.
Shade cloth of sized and painted fabric. Interstate Shade Cloth Co. 184,613; Nov. 6.
Towels, sheets, pillowcases, etc. Hale Bros., Inc. 185,019; Nov. 6.

CLASS 44.

Bottles, Hot-water. R. Palmer. 162,570; Nov. 6.
Toothpicks, Wooden. International Mfg. Co. 185,708; Nov. 6.

CLASS 45.

Beverage sold as a soft drink. E. J. O'Brien. 182,219; Nov. 6.
Beverages sold as soft drinks and sirups for making the same. C. H. Butler. 185,173; Nov. 6.
Flavoring extracts, emulsions, sirups for soda-fountain purposes, etc., Maltless. W. B. Webber. 167,858; Nov. 6.
Ginger ale, sarsaparilla, and root beer. J. Friedrich. 184,818; Nov. 6.

CLASS 46.

Apples, Fresh. Dailey Produce Co. 182,737; Nov. 6.
Bacon, canned corn beef, corned pork, etc. A. C. Hofmann & Sons. 171,588; Nov. 6.
Biscuits. Loose-Wiles Biscuit Company. 181,200; Nov. 6.
Biscuits having laxative properties. Battle Creek Food Company. 175,058; Nov. 6.
Bread. Ward Baking Company. 179,758; Nov. 6.
Bread and cake. Corby Baking Company. 167,294; Nov. 6.
Bread, Whole-wheat. Hillsdale Baking Company. 179,534; Nov. 6.
Butter, Creamery. Greendale Dairy. 153,974; Nov. 6.
Cakes. M. Tuuri. 173,015; Nov. 6.
Candy. C. A. Asher. 165,477; Nov. 6.
Candy. George K. Brown Company. 184,812; Nov. 6.
Candy. G. Farmakes. 180,113; Nov. 6.
Candy and confections. E. McKnight. 183,714; Nov. 6.
Canned bird food. S. L. Lipkin. 175,933; Nov. 6.
Canned clams and sardines. Arthur L. Johnson Co. of Rhode Island. 183,926; Nov. 6.
Canned fish. F. E. Booth Co. 185,103; Nov. 6.
Canned fish. Western California Fish Co. 168,394. Nov. 6.
Canned fruit. F. E. Booth Co. 184,811; Nov. 6.
Canned fruits and vegetables. Sierra Pacific Canning Co. 181,915; Nov. 6.
Canned fruits, vegetables, fish, etc. Louisville Grocery Co. 180,879; Nov. 6.
Canned salmon. New England Fish Company. 183,530; Nov. 6.
Canned vegetables. J. B. Margolies Wholesale Grocer Co. 185,029–30; Nov. 6.
Canned vegetables, fruits, berries, fish, etc. Amos-James Grocer Co. 176,151; Nov. 6.
Cantaloupes, honey dews, and casabas, Fresh. J. H. Smith. 179,490; Nov. 6.
Cheese. Gerber & Co. A. G. 182,580; Nov. 6.
Cheese. J. Kirkpatrick. 172,600; Nov. 6.
Chocolates. Busy Bee Candy Company. 182,233; Nov. 6.
Coconut fats for food purposes. S. Langner. 182,349; Nov. 6.
Corn meal, cereal scratch and chick feed, etc. for poultry. C. O. Sandefur. 180,297; Nov. 6.
Eggs. M. Packman. 182,002; Nov. 6.
Extracts of grains used as a milk modifier, Powdered. Horlick's Malted Milk Company. 182,417; Nov. 6.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Feed for live stock. Sweetwater Cotton Oil Co. 181,502; Nov. 6.
Flour and stock feeds, Wheat. Capital City Milling & Grain Co. 175,845; Nov. 6.
Flour, cracked cereal food, etc., Pancake. C. O. Sandefur. 180,621; Nov. 6.
Flour, Self-rising. Lillie Mill Company. 182,757; Nov. 6.
Flour, self-rising pancake flour, wheat meal, etc., Wheat. Red Star Milling Company. 178,192; Nov. 6.
Flour, Wheat. Bernet, Craft & Kauffman Milling Co. 179,924; Nov. 6.
Flour, Wheat. S. Levenson. 163,404; Nov. 6.
Flour, Wheat. Midland Flour Milling Co. 180,483; Nov. 6.
Flour, Wheat. Nebraska Consolidated Mills Company. 180,881; Nov. 6.
Flour, Wheat. Pillsbury Flour Mills Company. 173,379; Nov. 6.
Flour, Wheat. Robinson Milling Company. 175,946; Nov. 6.
Flour, Wheat. Thompson Milling Company. 173,451; Nov. 6.
Foods. E. L. Bailey. 117,791; Nov. 6.
Foods, Poultry. Feed D. Wikoff Company. 159,675; Nov. 6.
Fruit, Preserved. Keystone Fruit Products Company. 177,698; Nov. 6.
Fruits and canned vegetables, Preserved, canned, and bottled. Chase & Co. 181,727; Nov. 6.
Gum, Chewing. H. W. White. 185,100; Nov. 6.
Ice cream. C. N. Bergmann. 174,651; Nov. 6.
Ice cream and frozen confections. Melloyd Co. 166,531; Nov. 6.
Ice cream, butter, ice-cream mix, and condensed milk. Kentwood Ice Manufacturing & Bottling Works, Ltd. 178,444-5; Nov. 6.
Milk and cream, Fresh. Hagerstown Dairy Company. 180,598; Nov. 6.
Milk flour, milk paste, milk-chocolate coating, etc. Hershey Brothers. 162,552; Nov. 6.
Mustard, preserved fruits, jellies, etc. M. Pinkus. 175,733; Nov. 6.
Oats and wheat flour, Rolled. Quaker Oats Company. 173,531; Nov. 6.
Oil for mayonnaise and salads. Maggioros & Rousos. 180,075; Nov. 6.
Onions. Dingfelder & Balish. 184,004; Nov. 6.
Peaches and figs, Dried. California Peach & Fig Growers. 177,827; Nov. 6.
Tomato purée, apple butter, canned peaches, etc. Stetson and Ellison Company. 184,150; Nov. 6.
Vinegar, raisins, canned vegetables, fruits, etc. Williamson-Halsell-Frasier Co. 165,323; Nov. 6.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF NOVEMBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abernarty, Georgie S., et al. (See Rogers, Joseph C., assignor.)
Abrams, John M., Brooklyn, N. Y. Resilient tire. 1,473,414; Nov. 6.
Actien Gesellschaft für Anilin Fabrikation. (See Grünhagen, Heinrich, assignor.)
Actien Ges llschaft für Anilin Fabrikation. (See Longer, Walter, assignor.)
Adams, Henry T. (See Nachtrieb, Norman D., assignor.)
Adatte, Albert L. (See Chanier, G. L., and Adatte.)
Adkins, Stephen J., Fort Worth, Tex. Lock. 1,472,861; Nov. 6.
Advance Products Corporation. (See Lippert, A. C., and Sniko, assignors.)
Afel, Herman A., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Ringing channel for multiplex telephone systems. 1,472,821; Nov. 6.
Afel, Herman A., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Calling arrangement for radio systems. 1,472,822; Nov. 6.
Aktiebolaget Precisionsmätt. (See Lundin, Carl W., assignor.)
Aktiebolaget Svenska Kullagerfabriken. (See Wingquest, Sven G., assignor.)
Albano, Ernesto, Turin, assignor to C. Ferreri, Carrù, Cuneo, Italy. Hydraulic whisk. 1,473,454; Nov. 6.
Albert, August, Munich, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Producing new organic arsenic compounds. 1,472,778; Nov. 6.
Albertoni, John A., Akron, Ohio. Mailing tube. 1,473,393; Nov. 6.
Albrecht, Carl A., Columbus, Ohio. Metallic grave vault. 1,473,534; Nov. 6.
Alexander, Hugh, Cleveland, Ohio. Insect exterminator. 1,473,535; Nov. 6.
Allbright-Nell Co., The. (See Johnson, Walter J. O., assignor.)
Allbright-Nell Company, The. (See Kohlhepp, John W., assignor.)
Allen Company, The. (See Hodgetts, Harold W., assignor.)
Allen, Oglesby, jr., assignor to Allen Specialty Company, Chicago, Ill. Spark plug. Re15,713; Nov. 6.
Allen Specialty Company. (See Allen, Oglesby, jr., assignor.)
Allith-Prouty Company. (See Older, Roy B., assignor.)
Alma Manufacturing Company of Baltimore City. (See Koengood, Allen H., assignor.)
Alsop, Samuel, New York, N. Y. Filter. 1,472,896; Nov. 6.
Alvarez, Miguel, Santiago, Chile. Rail joint. 1,473,330; Nov. 6.
American Bakery Company. (See Welle, Albert F., assignor.)
American Balsa Company. (See Broady, Harry W., assignor.)
American Bosch Magneto Corporation. (See Schwarzmann, Wolfgang E., assignor.)
American Dan Bottle Seal Corporation. (See Clark, W. L., and Hawkins, assignors.)
American Encaustic Tiling Co. (See Lillibridge, Harry D., assignor.)
American Equipment Company. (See Luce, Grafton E., assignor.)
American Exchange National Bank of Duluth, executors. (See Gow, Alexander M.)
American Lead Pencil Company. (See Pfous, Frank, assignor.)
American Multigraph Company, The. (See Osborn, Henry C., assignor.)
American Optical Company. (See Schumacher, Elmer L., assignor.)
American Optical Company. (See Wason, Robert M., assignor.)
American Radiator Company. (See Bliss, Sherwood C., assignor.)
American Radio & Research Corporation. (See Woodhull, S. T., and Waller, assignors.)
American Road Machinery Company. (See Berry, Earl E., assignor.)
American Stove Company. (See Stockstrom, Arthur, assignor.)
American Telephone and Telegraph Company. (See Afel, Herman A., assignor.)
American Telephone and Telegraph Company. (See Martin, William H., assignor.)
Anchor Cap & Closure Corporation. (See Ramsey, George, assignor.)
Anderson, Conrad E., Detroit, Mich. Steel newel post. 1,472,897; Nov. 6.
Anderson, Fritz A., assignor to Burdick Cabinet Company, Milton, Wis. Therapeutic appliance. 1,472,779; Nov. 6.
Anderson, James W., administrator. (See Hill, Percy L.)
Anderson, John H., St. Paul, Minn. Sled knee. 1,473,415; Nov. 6.
Anderson, Olof B., Marquette, Mich., assignor to E. H. Longyear Company, Minneapolis, Minn. Oil-saving device for oil wells. 1,472,922; Nov. 6.
Anderson, Swan F., and A. Farb, Rockford, Ill. Wrecking tool. 1,473,072; Nov. 6.
Andrade, Cipriano, jr., New York, N. Y. Differential. 1,473,201; Nov. 6.
Andrews, Keith F., and W. B. Sturgis, Chicago, Ill. Repeating mechanism for phonographs. 1,473,071; Nov. 6.
Anekee, John. (See Faubert, V. T., Anekee, and Young.)
Angell, Frank B., assignor of seven-sixteenths to A. Koenig, San Francisco, and one-eighth to C. F. Forester, Los Angeles, Calif. Can-opening device. 1,472,862; Nov. 6.
Anko Manufacturing Company, The. (See Kohl, Theodore G., assignor.)
Anton, Ray. (See Sabbag, L. G., and Anton.)
Appelgate, Herlin M., Brooklyn, assignor of one-half to I. Warner, New York, N. Y. Electric timer. 1,472,780; Nov. 6.
Armour Leather Company. (See Ertel, John, assignor.)
Armstrong & White. (See White, Benjamin B., assignor.)
Armstrong, Sir W. G., Whitworth & Company. (See Halliwell, Walter, assignor.)
Arrighi, Maurice. (See Bottinelli, P. E., and Arrighi.)
Ashton, Hannah, executrix. (See Ashton, Orrell.)
Ashton, Orrell, deceased, Swampscott, by H. Ashton, executrix, Wollaston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 1,472,823; Nov. 6.
Asplund, Axel A., Auburn, N. Y. Pulverizer. 1,473,073; Nov. 6.
Atlas Imperial Engine Company. (See Lorimer, John W., assignor.)
Atlas Oil Burner Company. (See Mahan, George H., assignor.)
Austin, F. C., Machinery Company. (See Stahl, Charles E., assignor.)
Auto Spring Control Company. (See Kettle, A. W., and Thayer, assignors.)
Avery, Emmett C., Hutchinson, Kans. Saw rig. 1,473,536; Nov. 6.
Awalt, George A., Minneapolis, Minn. Adjustable storm-window holder. 1,473,416; Nov. 6.
Babcock & Wilcox Company. (See Whittam, Benjamin B., assignor.)
Baeswskin, Abraham, Chicago, Ill. Welding or soldering composition. 1,472,781; Nov. 6.
Bailey, Hubert, New York, N. Y. Coupling. 1,473,537; Nov. 6.
Bailey, James F., Columbia, S. C. Cotton tramper or packer. 1,743,455; Nov. 6.
Baker, Charles L., Orland, Calif. Portable shelter. 1,473,074; Nov. 6.
Bakke, Reier A., Redtop, Minn. Flytrap. 1,473,538; Nov. 6.
Baldwin Locomotive Works, The. (See Farquhar, Henry S., assignor.)
Bales, Ivan. (See Pearce, O., and Bales.)
Ball, John R. (See Rogers, Homer S., assignor.)
Bamber, William, Sutton, England. Display box. 1,472,953; Nov. 6.
Barber, Albert E., Chicago, Ill. Shaft coupling. 1,472,782; Nov. 6.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Folding mechanism. 1,473,202; Nov. 6.
Barthel, Oliver E., Detroit, Mich. Brake rigging. 1,473,456; Nov. 6.
Bartlemay, Arlie, assignor to The Red Cross Manufacturing Co., Bluffton, Ind. Bearing. 1,473,138; Nov. 6.
Bassick Company, The. (See Herold, Walter F., assignor.)
Bassick Company, The. (See Moore, Raymond G., assignor.)
Bates, Walter A., Enid, Okla. Bearing-race remover. 1,473,075; Nov. 6.

Bauer, Frederick C., Philadelphia, Pa. Toy railway. 1,472,783; Nov. 6.
Baumgartner, Walter J., assignor to Duplex Engine Governor Company Inc., Brooklyn, N. Y. Internal-combustion engine. 1,473,394; Nov. 6.
Baylis, Albert W., Bay Shore, N. Y. Bedspread. Des. 63,212; Nov. 6.
Baylis, Albert W., Bay Shore, N. Y. Bedspread. Des. 63,213; Nov. 6.
Baylis, Albert W., Bay Shore, N. Y. Bedspread. Des. 63,214; Nov. 6.
Baylis, Albert W., Bay Shore, N. Y. Bedspread. Des. 63,215; Nov. 6.
Baylis, Albert W., Bay Shore, N. Y. Bedspread. Des. 63,216; Nov. 6.
Beardsley & Piper Company, The. (See Beardsley, Elmer O., assignor.)
Beardsley, Elmer O., assignor to The Beardsley & Piper Company, Chicago, Ill. Portable molding machine. 1,472,784; Nov. 6.
Beasley, Thomas, Merton, England. Surgical truss and the like. 1,473,539; Nov. 6.
Bechhold, Heinrich, Frankfort-on-the-Main, Germany. Filter. 1,473,331; Nov. 6.
Becker, August M., New York, N. Y. Window cleaner. 1,473,395; Nov. 6.
Beckman, Jacob H., Oakland, Calif. Water heater. 1,473,002; Nov. 6.
Beetem, Frank G., Philadelphia, Pa. Radio receiving apparatus. 1,473,417; Nov. 6.
Behringer, Emil, Brooklyn, N. Y. Radiator. 1,472,954; Nov. 6.
Behringer, Emil, Brooklyn, N. Y. Radiator-pipe hanger. 1,472,955; Nov. 6.
Behrsin, August, Los Angeles, Calif. Oil-drip plate for oil burners. 1,473,203; Nov. 6.
Belknap, Edwin D., Spring Lake, N. J. Address-printing machine. 1,473,109; Nov. 6.
Bendixen, Peter, Davenport, assignor to Bettendorf Company, Bettendorf, Iowa. Journal-box lid. 1,472,785; Nov. 6.
Benson, Elof, Newton Highlands, assignor of one-half to F. H. Williams, Boston, Mass. Detection of submerged objects. 1,473,332; Nov. 6.
Berggren, Eric N., Chicago, Ill. Shutter-actuating mechanism. 1,472,786; Nov. 6.
Bernardo, Charles L., New York, N. Y. Closure for bottles. 1,473,540; Nov. 6.
Berninghaus, Eugene, assignor to The Eugene Berninghaus Company, Cincinnati, Ohio. Barber chair. 1,473,541; Nov. 6.
Berninghaus, Eugene Company, The. (See Berninghaus, Eugene, assignor.)
Berry, Earl E., assignor to American Road Machinery Company, Inc., Kennett Square, Pa. Scarifier. 1,473,002; Nov. 6.
Berthold, George, Bridgeville, Pa. Nut lock. 1,473,170; Nov. 6.
Bethlehem Steel Company. (See Schenck, C., and Fine, assignors.)
Bettendorf Company. (See Bendixen, Peter, assignor.)
Bickley, Ross M., assignor to Heyl & Patterson, Inc., Pittsburgh, Pa. Picking table. 1,473,333; Nov. 6.
Biegler, Edward N., Chicago, Ill. Building construction. 1,472,956; Nov. 6.
Billings, Frank. (See Greenleaf, Robert P., assignor.)
Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Forming transformer structures. 1,472,863; Nov. 6.
Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Tank structure. 1,473,595; Nov. 6.
Bird, William C. (See Wood, G. B., Bird, and Packard.)
Bishop, Joseph W., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Phonograph. 1,473,004; Nov. 6.
Bishop, Joseph W., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Phonograph. 1,473,005; Nov. 6.
Blades, Robert, Chicago, Ill. Meat hanger and apparatus for applying the same. 1,473,204; Nov. 6.
Blaine, Joseph R., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Inking mechanism. 1,472,898; Nov. 6.
Blair, Robert S., Sound Beach, Conn. Construction for internal-combustion engines. 1,472,899; Nov. 6.
Blest, Minot C., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Brake mechanism. 1,473,006; Nov. 6.
Bliss, Sherwood C., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Mold-material-projecting machine. 1,472,957; Nov. 6.
Blood, Harold L., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Planer and system of motor control therefor. 1,472,824; Nov. 6.
Blood, Oscar M., Herman, Minn. Drag. 1,473,457; Nov. 6.
Bodman, John W., Western Springs, Ill., assignor to William Garrigue & Company, Inc., New York, N. Y. Manufacturing soap. 1,473,396; Nov. 6.
Boechat, Lucien, Rittman, Ohio. Manicuring tool. 1,473,007; Nov. 6.
Bohlman, Ernest A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Key. 1,472,787; Nov. 6.
Bonilla, Ralph S., New York, N. Y. Lock. 1,473,076; Nov. 6.
Boock, Arthur, Tripp, S. Dak. Tire remover. 1,473,397; Nov. 6.
Borel, Charles, Geneva, Switzerland, assignor to J. E. A. Trub, New York, N. Y. System of building construction. 1,473,418; Nov. 6.
Bosshard, Theodore, Brooklyn, N. Y. Cherry and confection center depositing apparatus. 1,473,458; Nov. 6.
Bostwick, Rolla B., et al. (See Jacobs, James J., assignor.)
Bottinelli, Paul E., and M. Arrighi, West New York, N. J. Speed gearing. 1,473,459; Nov. 6.
Bowden, Junius A., Los Angeles, Calif., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Pressure gauge. 1,473,171; Nov. 6.
Bowdle, Montraville H., assignor to F. M. Davis, Chicago, Ill. Tax-sales register. 1,472,900; Nov. 6.
Boyd, Harold A. (See Boyd, Thomas A. and H. A.)
Boyd, Thomas A., and H. A., Shettleston, Glasgow, Scotland. Cheese-winding machine. 1,473,172; Nov. 6.
Bradley Pulverizer Company. (See Gibson, W. A., and Needham, assignors.)
Bragg, Frederick A., Springfield, Mass. Railway tie. 1,473,205; Nov. 6.
Brandwood, John, T., and J., Elton, Bury, England. Bleaching of yarn wound in compact form. 1,472,958; Nov. 6.
Brandwood, Joseph. (See Brandwood, John, T., and J.)
Brandwood, Thomas. (See Brandwood, John, T., and J.)
Brenner, Ralph F., and F. A. Murrin, assignors to H. C. Fry Glass Company, Rochester, Pa. Coffeepot. 1,472,901; Nov. 6.
Brinkerhoff, Frederic H., Clinton, Iowa. Differential diaphragm. 1,473,173; Nov. 6.
Brisbin, George L., Punxsutawney, Pa. Collar-fastening device. 1,473,460; Nov. 6.
Broady, Harry W., Bayside, N. Y., assignor to American Balsa Company, Inc. Device for securing and releasing lifeboats. 1,473,274; Nov. 6.
Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Two-cycle engine. 1,473,602; Nov. 6.
Brooks, J. B., and Company Limited. (See Champ, G. H., and Kay, assignors.)
Brotz, Anton F., assignor to Kohler Company, Kohler, Wis. Regulator for generators. 1,472,788; Nov. 6.
Brown & Bigelow. (See Fischer, Howard L., assignor.)
Brown & Bigelow. (See Welcker, Paul H., assignor.)
Brown, Frederick M. (See Clark, Winthrop A., assignor.)
Brown, Wilbur F., Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Raw-material conveyer for feeding glass furnaces. 1,473,008; Nov. 6.
Bruce, Murray L., Milan, Ind. Transmission band. 1,473,009; Nov. 6.
Brunswick-Balke-Collender Company, The. (See Bishop, Joseph W., assignor.)
Buckley, James W., Weatherford, Tex. Truss. 1,473,392; Nov. 6.
Buffalo-Springfield Roller Company, The. (See Endter, Walter J., assignor.)
Buhler, John J. V., Detroit, Mich. Rust-removing compound. 1,473,529; Nov. 6.
Bulkeley, Claude A., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Drier. 1,472,902; Nov. 6.
Bull, Arthur A., and R. C. Darnell, assignors to General Motors Corporation, Detroit, Mich. Engine-cylinder-sleeve sealing means. 1,473,139; Nov. 6.
Bull, Charles H., Gisborne, New Zealand. Protector covering for loose-leaf account and like books. 1,472,789; Nov. 6.
Bull, George L., Oakland, Calif. Valve-operating mechanism. 1,473,077; Nov. 6.
Burdick, Arthur, Pittsfield, Mass. Fuel saver. 1,473,461; Nov. 6.
Burdick Cabinet Company. (See Anderson, Fritz A., assignor.)
Burgett, Neal J., Detroit, Mich. Shingle. 1,473,275; Nov. 6.
Burns, Martin F., Astoria, N. Y. Dental flask. 1,473,276; Nov. 6.
Burns, Martin F., Astoria, N. Y. Dental flask. 1,473,277; Nov. 6.
Burns, Martin F., Astoria, N. Y. Dental apparatus. 1,473,278; Nov. 6.
Burns, William F., Memphis, Tenn. Automatic electric window guard. 1,472,864; Nov. 6.
Burton, Charles S., Oak Park, Ill. Detachable traction lug for tractor wheels. 1,473,398; Nov. 6.
Buschmann, Theodor E., Chemnitz-Kappel, assignor to Wanderer-Werke vorm. Winklhofer & Jaenicke, Aktiengesellschaft, Schonau, near Chemnitz, Germany. Letter-width-spacing mechanism in typewriters. 1,472,825; Nov. 6.
Butler, John R., assignor of one-third to T. B. Chaffin, Montgomery, W. Va. Rail joint. 1,473,334; Nov. 6.
Byrne, John L., and F. V. Seneder, Denver, Colo. Beet topper. 1,472,959; Nov. 6.
Cadieux, Joseph O., assignor to The Connecticut Telephone & Electric Company, Meriden, Conn. Electric signal switch. 1,473,591; Nov. 6.

Cameron, Gordon, Wollaston, assignor to S. B. Condit, Jr., Boston, Mass. Electric switch. 1,473,010; Nov. 6.
Cannon, Mervin B., Cincinnati, Ohio. Packaging machine. 1,473,175; Nov. 6.
Carborundum Company, The. (See Forse, Edwin B., assignor.)
Carr Fastener Company. (See Carr, Moses F., assignor.)
Carr, Moses F., Lexington, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. Re-15,714; Nov. 6.
Cartwright, William P., Detroit, Mich., and J. F. Keller, New York, assignors to Keller Mechanical Engraving Company, Brooklyn, N. Y. Fixture for die-cutting machines and the like. 1,473,592; Nov. 6.
Cashiko Machine Company. (See Schimek, Joseph F., assignor.)
Cassel, Hjalmar S., Stockholm, Sweden. Bearing line for electric aerial conductors to automobile machines. 1,473,206; Nov. 6.
Central Electric Tool Company. (See Weyandt, Carl S., assignor.)
Central Stamping Company. (See Kleist, Arthur F., assignor.)
Centrifugal, National Concentrator Company. (See Eccleston, Charles W., assignor.)
Chaffin, T. B. (See Butler, John R., assignor.)
Chambers, Edward, Winchester, England. Fastening or locking device for trousers presses. 1,473,207; Nov. 6.
Champ, Guy H., and G. E. O. Kay, Warwick, assignors to J. B. Brooks and Company Limited, Birmingham, England. Motor-cycle and like saddle. 1,473,462; Nov. 6.
Champion Corset Company. (See McCormick, Sara W. and H. M., assignors.)
Champlin, Tint, Little Valley, N. Y. Knife. 1,472,826; Nov. 6.
Chandler, Edward M., New Kensington, Pa. Attachment for utensils. 1,473,335; Nov. 6.
Chandler, Ethelbert W., Portland, Oreg. Combination switch. 1,473,463; Nov. 6.
Chanler, Gaston L., Short Hills, and A. L. Adatte, Plainfield, N. J., assignors to Pathe Exchange, Inc., New York, N. Y. Film-drying apparatus. 1,473,542; Nov. 6.
Chase, March F., Washington, D. C., F. E. Pierce and J. Skogmark, assignors to The Cos Process Company, Inc., New York, N. Y. Manufacture of sulphuric anhydride. 1,472,790; Nov. 6.
Cherry, Thomas E., Boston, Mass. Adding machine. 1,473,174; Nov. 6.
Choate, Roy E., Cedar Rapids, Iowa. Wheel. 1,473,399; Nov. 6.
Christophel, Lewis W., St. Louis, Mo. Trunk seal. 1,473,011; Nov. 6.
Christopherson, Arthur, Oslo, Minn. Shocking attachment for binders. 1,473,012; Nov. 6.
Church, Albert E., New Britain, Conn. Chuck. 1,473,464; Nov. 6.
Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,473,140; Nov. 6.
Church, Harold D., Fairfield, Conn., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. 1,473,141; Nov. 6.
Cincinnati Car Company, The. (See Elliott, Thomas, assignor.)
Clairemont, Victor, San Francisco, Calif. Egg-candling apparatus. 1,473,279; Nov. 6.
Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Catalyst and making the same. 1,473,543; Nov. 6.
Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Ammonia synthesis catalyst and making the same. 1,473,544; Nov. 6.
Clapp, Lewis J., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. 1,473,078; Nov. 6.
Clapp, Lewis J., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. 1,473,598; Nov. 6.
Clark, Harry, Springfield, Ohio. Combined antiglare and weather shield. 1,473,599; Nov. 6.
Clark, Maurice E., Grenada, Miss. Guide. 1,473,465; Nov. 6.
Clark, Theodore O. (See Fisher, H. C., and Clark.)
Clark, Walter L., New York, N. Y., and W. J. Hawkins, Montclair, N. J., assignors to American Dan Bottle Seal Corporation, Dover, Del. Vessel seal. 1,473,280; Nov. 6.
Clark, Winthrop A., assignor of one-half to F. M. Brown, Stamford, Conn. Grapple. 1,473,013; Nov. 6.
Clarke, Robert C., Laurel, N. Y. Timer. 1,473,079; Nov. 6.
Clement, Alvah W., East Cleveland, assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Acid-resisting alloy. 1,473,208; Nov. 6.
Cleveland Brass Manufacturing Company, The. (See Clement, Alvah W., assignor.)
Cleveland Brass Manufacturing Company, The. (See Costello, Joseph A., assignor.)
Cohen, Abrahnm, St. Louis, Mo. Showcase refrigerator. 1,473,014; Nov. 6.
Colburn, Charles H., Hamlin, N. Y. Power-driven sleigh. 1,473,281; Nov. 6.
Coldwell, John S., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-driving mechanism. 1,473,015; Nov. 6.
Collier, William H., Painesville, Ohio. Splint machine. 1,473,545; Nov. 6.
Collins, Calhoun, Bakersfield, Calif. Hasp fastener. 1,473,080; Nov. 6.
Colson, Hardy H., Elsie, Nebr. Cow hopple. 1,473,176; Nov. 6.
Columbus Dental Manufacturing Company, The. (See Steele, Thomas, assignor.)
Conbey, Leyton, Asquith, Saskatchewan, Canada. Clutch-lever attachment for tractors. 1,473,466; Nov. 6.
Condit, Sears B., jr. (See Cameron, Gordon, assignor.)
Conill, Fernan O., Marseille, France. Refrigerating apparatus. 1,473,142; Nov. 6.
Conklin, George W., assignor to The O. K. Tool Company, Shelton, Conn. Disk cutter having staggered series of side teeth. 1,472,960; Nov. 6.
Connecticut Telephone & Electric Company, The. (See Cadieux, Joseph O., assignor.)
Connecticut Telephone & Electric Company, The. (See Livingston, Stanley D., assignor.)
Connelly, Henry A., Philadelphia, Pa. Scenery trimmer. 1,473,336; Nov. 6.
Connor, Martha H., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Plate or similar article of manufacture. Des. 63,217; Nov. 6.
Connor, Martha H., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Plate or similar article of manufacture. Des. 63,218; Nov. 6.
Cook, George A., Cleveland, Ohio. Restaurant stool and hat hook. 1,473,016; Nov. 6.
Cook, Joseph F., San Francisco, Calif. Fruit catcher and grader. 1,473,081; Nov. 6.
Cook, Robert W., assignor to Eastman Kodak Company, Rochester, N. Y. Washing apparatus for fibrous materials. 1,473,209; Nov. 6.
Cooke, Charles J., Washington, D. C. Atmospheric compound for divers' use. 1,473,337; Nov. 6.
Cooperman, Oscar, Palo Alto, Calif. Bicycle transmission. 1,473,017; Nov. 6.
Corone, Charles L., Broussard, La. Pneumatic device for cleaning boiler tubes. 1,473,467; Nov. 6.
Cos Process Company, Inc. (See Chase, M. F., Pierce, and Skogmark, assignors.)
Cosgrove, Thomas, jr., Canton, Ohio. Disk valve. 1,473,282; Nov. 6.
Costello, Joseph A., assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Valve. 1,473,210; Nov. 6.
Côté, Alphonse, Eel River, New Brunswick, Canada. Tensioning device for saws. 1,473,468; Nov. 6.
Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)
Courtney, Joe E., Plainview, Tex. Railway highway stop. 1,473,082; Nov. 6.
Cowles, Rolla R., Chicago, Ill. Vehicle towing device. 1,473,211; Nov. 6.
Coyne, James, Pittsburgh, Pa. Combination bolt and nut retainer. 1,473,177; Nov. 6.
Cromwell, John C., Cleveland, Ohio. Wheel. 1,473,283. Nov. 6
Crose, Lewis P., Carnegie, Okla. Hat carrier for automobiles. 1,473,338; Nov. 6.
Cudlipp, George R., Los Angeles, Calif. Toy pistol. 1,473,419; Nov. 6.
Curle, George L., Minneapolis, Minn. Main and auxiliary melting pot for linotype machines. 1,473,083; Nov. 6.
Curtis, Van V., Follansbee, W. Va. Can opener. 1,473,600. Nov. 6.
Cutler-Hammer Mfg. Co., The. (See Coldwell, John S., assignor.)
Cynamon, Charles, New York, N. Y. Automobile lock. 1,473,469; Nov. 6.
D. Co., Inc. (See Davidson, Arthur C., assignor.)
Dade, Thomas G., St. Marys, Ohio. Wheel. 1,473,084; Nov. 6.
Dade, Thomas G., St. Marys, Ohio. Wheel. 1,473,085; Nov. 6.
Dahl, Thure, New York, N. Y. Ring for lighting fixtures. Des. 63,219; Nov. 6.
Dailey, Edward L., Evansville, Minn. Typewriter attachment. 1,473,470; Nov. 6.
Dallas Brass & Copper Co. (See Yokel, Frank, assignor.)
Damascus Brake Beam Company, The. (See Mayhew, Edward A., assignor.)
Danner, Frederick E., Willows, Calif. Solar heater. 1,473,018; Nov. 6.
Darnell, Rex C. (See Bull, A. A., and Darnell.)
Davidson, Arthur C., Bronxville, assignor to D. Co., Inc., New York, N. Y. Manufacturing cutters. 1,473,086; Nov. 6.
Davis, Earl M., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle frame. Des. 63,220; Nov. 6.
Davis, Earl M., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle frame. Des. 63,221; Nov. 6.
Davis, Earl M., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle frame. Des. 63,222; Nov. 6.
Davis, Fred M. (See Bowdle, Montraville H., assignor.)

Davis, Laurence R., Weehawken, N. J., assignor to Providence Rubber Company. Cushion tire and manufacture thereof. 1,472,903; Nov. 6.

Davis, Louis D., Carbondale, Pa. Tool for attaching tips to shoe-strings or the like. 1,473,471. Nov. 6.

Davis, Otis L., Iowa City, Iowa. Auxiliary switch for automobile lights. 1,473,212; Nov. 6.

Dawley, Arthur, C. D. Pierce and Co. (See Dawley, Arthur, assignor.)

Dawley, Arthur, assignor to Arthur Dawley, C. D. Pierce and Co., Attica, Ind. Combined chicken coop and trap. 1,473,019; Nov. 6.

Dayton Rubber Manufacturing Company, The. (See Freedlander, Abraham L., assignor.)

Dayton Scale Company. (See Hopkinson, Joseph, assignor.)

Deagan, J. C., Inc. (See Little, Frederick B., assignor.)

Dean, James M., Fort Worth, Tex. Plow scraper and cleaner. 1,473,143; Nov. 6.

Dean, William R., Fort Pierre, S. Dak. Funnel. 1,472,961; Nov. 6.

De Caigny, Leon, Duluth, Minn. Cable clamp. 1,473,144; Nov. 6.

Dehn, William M., Seattle, Wash. Manufacturing ammonium picramate. 1,472,791; Nov. 6.

De Laval Separator Company, The. (See Hapgood, Cyrus H., assignor.)

De Matteis, Alfredo, New York, N. Y. Automatic toaster. 1,473,213; Nov. 6.

Demuth, Luther B., New Philadelphia, Ohio. Irrigating device. 1,473,087; Nov. 6.

Densmore, Fred R., and C. H. Kessler, Erie, Pa. Toy. 1,473,214; Nov. 6.

Dessau, Morland M., London, England. Playing ball, float, and the like. 1,472,865; Nov. 6.

Det Norske Aktieselskab for Elektrokemisk Industri. (See Sem, Mathias O., assignor.)

Detex Corporation. (See McCormack, James L. L., assignor.)

Devlin, William F. C., and S. W. Graham, Ottawa, Ontario, Canada; said Graham assignor to said Devlin. Camera lock for preventing double exposure. 1,473,098; Nov. 6.

De Witt-La France Company. (See De Witt, William P., assignor.)

De Witt, William P., Somerville, assignor to De Witt-La France Co., Cambridge, Mass. Pencil. 1,472,962; Nov. 6.

De Witt, William P., Somerville, assignor to De Witt-La France Company, Cambridge, Mass. Lever-filler fountain pen. 1,472,963; Nov. 6.

De Witt, William P., Somerville, assignor to De Witt-La France Company, Cambridge, Mass. Display cabinet. 1,473,215; Nov. 6.

De Wolf, John C. (See Humphreys, Albert H., assignor.)

Dick, Ernest F., Bend, Oreg. Auxiliary transmission. 1,473,216; Nov. 6.

Diffenderffer, John K. E. (See Williams, M. S. F., and Diffenderffer.)

Dinsmoor, Paul A. (See Hill, L., and Dinsmoor.)

Dodd, James F., Delaware, Ohio. Indicator. 1,473,472; Nov. 6.

Dodge, Adiel Y., Racine, and R. J. Statz, Wind Point, Racine, assignors to Freeman Manufacturing Company, Racine, Wis. Turntable. 1,472,792; Nov. 6.

Doering, George H., Brooklyn, N. Y. Artificial bait. 1,473,420; Nov. 6.

Donald, William H., assignor of one-half to F. A. Knowles and one-fourth to A. A. Knowles, Cincinnati, Ohio. Slicing machine. 1,473,143; Nov. 6.

Donaldson, Charles R., Cleveland, Ohio. Oil burner and heater. 1,473,020; Nov. 6.

Donnell, Andrew L., and H. F. Wruck, San Francisco, Calif. Roll feed device. 1,472,964; Nov. 6.

Donohue, John M., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether composition. 1,473,217; Nov. 6.

Donohue, John M., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether composition. 1,473,218; Nov. 6.

Donohue, John M., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether composition. 1,473,219; Nov. 6.

Dorwin, Otis J., New York, N. Y. Measuring apparatus. 1,473,473; Nov. 6.

Dougherty, Frank, Cheyenne, Wyo. Sadiron support. 1,472,866; Nov. 6.

Dow Chemical Company, The. (See Jones, Coulter W., assignor.)

Dowman-Dozier Mfg. Co. (See Norman, James M., assignor.)

Drake, Whittlesey A., Petroleum, Ohio, assignor to The Pennsylvania Tank Car Company, Sharon, Pa. Outlet valve for tank cars. 1,473,474; Nov. 6.

Dray, Walter R., Chicago, Ill. Pneumatic toy. 1,473,178; Nov. 6.

Driskell, Burt. (See Wyatt, De Witt H., assignor.)

Du Brul, Davila S., assignor to The Miller, Du Brul & Peters Manufacturing Company, Cincinnati, Ohio. Matrix. 1,473,339; Nov. 6.

Dugan, Robert C., Milden, Saskatchewan, Canada. Wagon hitch. 1,472,965; Nov. 6.

Duncan, Arthur L., Oakland, Calif. Means for peeling fruit. 1,473,021; Nov. 6.

Dunn Accessories Company. (See Dunn, Henry F., assignor.)

Dunn, Henry F., assignor to Dunn Accessories Company, Indianapolis, Ind. Headlight construction. 1,473,400; Nov. 6.

Duplex Engine Governor Company Inc. (See Baumgartner, Walter J., assignor.)

Du Pont, E. I., de Nemours & Company. (See Bulkeley, Claude A., assignor.)

Du Pont, E. I., de Nemours & Company. (See Nevius, George H., assignor.)

Dura Company, The. (See Nicholson, Stanley W., assignor.)

Durand Steel Locker Company. (See Vance, Walter N., assignor.)

Eames, George M., Bridgeport, and J. C. Ringe, Stratford, Conn., assignors to Singer Manufacturing Company, Elizabeth, N. J. Tape-threading machine. 1,473,022; Nov. 6.

Eastman Kodak Company. (See Cook, Robert W., assignor.)

Eastman Kodak Company. (See Donohue, John M., assignor.)

Eastman, John E., jr. (See Schmitt, Charles A., assignor.)

Eccleston, Charles W., assignor to Centrifugal National Concentrator Company, Los Angeles, Calif. Centrifugal separator. 1,473,421; Nov. 6.

Eddington, A. T. (See Pokorny, James T., assignor.)

Eiermann, William, Brooklyn, N. Y. Weighted scraper. 1,473,546; Nov. 6.

Eklund, Harold A., Tulsa, Okla. Oil injector. 1,473,475; Nov. 6.

Ekstrom, Eric S., et al. (See Faust, Levin, assignor.)

Ellery, Robert L. (See Jobst, Conrad, assignor.)

Elligan, Earl, Chicago, Ill. Governor for spring motors. 1,473,476; Nov. 6.

Elliott, Ambrose E. (See McCallen, Walter F., assignor.)

Elliott, Harold F., Palo Alto, assignor to A. Taylor, San Francisco, Calif. Radiotelegraphy signaling system. 1,473,220; Nov. 6.

Elliott, Harry C., Towanda, Kan. Windshield light shade for automobiles. 1,472,904; Nov. 6.

Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Vehicle body. 1,473,023; Nov. 6.

Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Railway car. 1,473,024; Nov. 6.

Ellis, John W., Portland, Oreg. Irrigation valve. 1,473,401; Nov. 6.

Emmons, Harold H. (See Litle, Thomas J., jr., assignor.)

Endter, Walter J., assignor to The Buffalo-Springfield Roller Company, Springfield, Ohio. Scarifier. 1,473,221; Nov. 6.

Englander, Benjamin B., assignor to Englander Spring Bed Company, Brooklyn, N. Y. Couch hammock. Des. 62,223; Nov. 6.

Englander Spring Bed Company. (See Englander, Benjamin B., assignor.)

Englund, Knut E., Brooklyn, assignor to R. H. Gay, New York, N. Y. Adjustable band. 1,472,966; Nov. 6.

Enkler, George, Brooklyn, N. Y. Ventilator. 1,472,967; Nov. 6.

Erb, William B., Chicago, Ill. Compressed-air water-elevating pump. 1,472,968; Nov. 6.

Erdman, Albert W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Cutter-grinding attachment. 1,472,827; Nov. 6.

Erickson, Charles, Minneapolis, Minn. Sprayer. 1,473,025; Nov. 6.

Ernest, Edward A. (See Norris, G. H., and Ernest.)

Ertel, John, Newberry, Pa., assignor to Armour Leather Company, Chicago, Ill. Stamping device. 1,473,026; Nov. 6.

Ervin, Charles W., Los Angeles, Calif. Can opener. 1,473,027; Nov. 6.

Estwing, Ernest, et al. (See Faust, Levin, assignor.)

Eustis, Frederic A., Milton, Mass. Apparatus for making hydrosulphites. 1,472,828; Nov. 6.

Farb, Axel. (See Anderson, S. F., and Farb.)

Farquhar, Henry S., Wayne, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Air heater for fuel burners. 1,473,422; Nov. 6.

Farr, Fred D., Perry, N. Y. Handle. 1,473,028; Nov. 6.

Faulbert, Victor T., J. Anekel, and C. L. Young, Amarillo, Tex. Clear-vision device. 1,473,029; Nov. 6.

Faultless Caster Company. (See Noelting, William H., assignor.)

Faust, Levin, assignor of one-third to E. S. Ekstrom and one-third to E. Estwing, Rockford, Ill. Coupon clipper. 1,473,089; Nov. 6.

Fegley, Thomas J., and G. O. Leopold, assignors to North Bro's. Mf'g Co., Philadelphia, Pa. Hand brace. 1,473,423; Nov. 6.

Feldkamp, Frederick A., Newark, N. J. Electric-fuse element. 1,473,284; Nov. 6.

Ferreri, Cesare. (See Albano, Ernesto, assignor.)

Ferry, Gilbert E., Omaha, Nebr. Erasing attachment for pencils. 1,473,090; Nov. 6.

Fessenden, Reginald A., Chestnut Hill, Mass., assignor to Submarine Signal Company, Portland, Me. Eliminating undesired impulses. 1,473,179; Nov. 6.

Fick, Henry, Menominee, Mich. Carrying harness. 1,473,477; Nov. 6.

Finch, John S., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Variable-speed power transmitter for sewing machines. 1,473,030; Nov. 6.

Fine, Lewis. (See Schenck, C., and Fine.)

Firestone Steel Products Company, The. (See Swain, Joseph G., assignor.)

Firestone Tire and Rubber Company, The. (See Pade, Max H., assignor.)

Fischer, Howard L., assignor to Brown & Bigelow, St. Paul, Minn. Pencil. 1,472,969; Nov. 6.

Fischer, Howard L., assignor to Brown & Bigelow, St. Paul, Minn. Pencil. 1,472,970; Nov. 6.

Fisher, Benjamin J., et al. (See Paull, Arvin R., assignor.)

Fisher, Harold C., and T. O. Clark, Lone Star, Kans. Tire chain. 1,473,340; Nov. 6.

Fisher, Harry L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber composition and making the same. 1,473,285; Nov. 6.

Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)

Fitch, Benjamin F., Evanston, Ill. Garage. 1,472,793; Nov. 6.

Fitchburg Bobbin Cleaning Machine Company. (See Vowles, Ernest H., assignor.)

Fitzgerald, Michael J., New York, N. Y. Street-cleaning cart. 1,473,572; Nov. 6.

Fleischmann Company, The. (See Hayduck, Friedrich, assignor.)

Foley, Hugh, Sourlake, Tex. Calculating device. 1,473,573; Nov. 6.

Foley, Timothey J., New York, N. Y. Device for connecting pipes to boilers. 1,472,794; Nov. 6.

Forcier, George J., Cleveland, Ohio. Cleaning device. 1,473,146; Nov. 6.

Forester, Carl F., et al. (See Angell, Frank B., assignor.)

Forse, Edwin B., Perth Amboy, N. J., assignor to The Carborundum Company, Niagara Falls, N. Y. Refractory article. 1,473,286; Nov. 6.

Fort Dearborn Watch & Clock Company. (See Weibezahn, Carl T., assignor.)

Forward, Chauncey B., Urbana, Ohio. Refining oil. 1,473,402; Nov. 6.

Foster, Mary R., Washington, D. C. Telephone cover. 1,473,180; Nov. 6.

Foulke, Francis E., Philadelphia, Pa., assignor to Maximum Motors Co., Inc., New York, N. Y. Internal-combustion engine. 1,473,031; Nov. 6.

Fox, William H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for making catheters. 1,473,403; Nov. 6.

Foye, William H., Seattle, Wash. Elevator safety device. 1,473,147; Nov. 6.

Fraim-Slaymaker Hardware Co. Inc. (See Miller, George M., assignor.)

Frater, Gorden, assignor to G. B. Lewis Company, Watertown, Wis. Frame metal shoulder. 1,472,795; Nov. 6.

Freedlander, Abraham L., assignor to The Dayton Rubber Manufacturing Company, Dayton, Ohio. Dust cap. 1,473,032; Nov. 6.

Freeman Manufacturing Company. (See Dodge, A. Y., and Statz, assignors.)

Fretz, Samuel S., sr., Philadelphia, Pa. Self-opening umbrella. 1,473,222; Nov. 6.

Fritz, E. F. Lewis, Chicago, Ill. Supporter. 1,472,796; Nov. 6.

Fry, H. C., Glass Company. (See Brenner, R. F., and Murrin, assignors.)

Fuer, Charles, Sheridan, Wyo. Paste composition. 1,473,181; Nov. 6.

Garrigue, William, & Company. (See Rodman, John W., assignor.)

Gatchell, Oliver W., Greensboro, N. C. Brick-paver's bridge. 1,473,223; Nov. 6.

Gault, James H., Philadelphia, Pa. Card-perforating machine. 1,472,829; Nov. 6.

Gaunt, Charles F., Birmingham, England. Hair-cutting, shaving, or combing device. 1,473,404; Nov. 6.

Gauntt, Guy R., Roanoke, Ala. Dies for forming rail braces. 1,472,867; Nov. 6.

Gay, Robert H. (See England, Knut E., assignor.)

Geier, P. A., Company, The. (See Geier, Philip A., assignor.)

Geier, Philip A., assignor to The P. A. Geier Company, Cleveland, Ohio. Handle-securing mechanism. 1,472,797; Nov. 6.

Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Detachable lining for draft-gear friction shells. 1,472,971; Nov. 6.

General Motors Company. (See Short, Charles R., assignor.)

General Motors Corporation. (See Bull, A. A., and Darnell, assignors.)

General Motors Corporation. (See Mason, Arthur C., assignor.)

Gentle, William M., Los Angeles, Calif. Carburetor. 1,473,182; Nov. 6.

Germain, Pierre. (See Kreutzberger, P. L. G., and Germain.)

Gerzén, Viktor E., Svanobruk, Sweden. Screw. 1,473,033; Nov. 6.

Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Inclosed switch. 1,473,574; Nov. 6.

Getgey, John J., Tulsa, Okla. Trousers presser and hanger. 1,473,547; Nov. 6.

Getgey, John J., Tulsa, Okla. Garment hanger and presser. 1,473,548; Nov. 6.

Gibson, William A., and C. E. Needham, Allentown, Pa., assignors to Bradley Pulverizer Company, Boston, Mass. Grinding mill. 1,473,341; Nov. 6.

Gifford Fox & Company Limited. (See Hawker, William J., assignor.)

Gilchrist, Clarence F., Toledo, Ohio. Fuse-mounting block. 1,473,575; Nov. 6.

Gilday, James S., Blaine, Wash. Air jack. 1,473,034; Nov. 6.

Gillett, William T., Tillamook, Oreg. Cleansing composition. 1,472,972; Nov. 6.

Gilson, Bert D., Chicago, Ill. Circulation-pump attachment. 1,473,287; Nov. 6.

Girl, Christian, Kalamazoo, Mich. Bumper. 1,472,905; Nov. 6.

Gleason, Frederick H., Auburn, N. Y. Means for lubricating steering knuckles and other parts of vehicles. Re15,715; Nov. 6.

Goldberg, Isidor. (See Jurgensen, A. P., assignor.)

Goldknopf, Abraham, New York, N. Y. Collar-stud support. 1,473,549; Nov. 6.

Goldman, Sigmund L., Chicago, Ill. Bottle-closure-applying device. 1,473,342; Nov. 6.

Goodell, William S., Chicago, Ill. Interchangeable road-treating machine. 1,473,405; Nov. 6.

Goodrich, B. F., Company. (See Fisher, Harry L., assignor.)

Goodrich, B. F., Company, The. (See Fox, William H., assignor.)

Gordon, David D., Chicago, Ill., assignor, by mesne assignments, to McGill Manufacturing Company, Valparaiso, Ind. Switch movement. 1,473,224; Nov. 6.

Gordon, David D., Chicago, Ill., assignor, by mesne assignments, to McGill Manufacturing Company, Valparaiso, Ind. Switch mechanism. 1,473,225; Nov. 6.

Gorrell, Charles R., Toledo, Ohio. Finger exerciser. 1,472,906; Nov. 6.

Goss Printing Press Company, The. (See Siple, Charles, assignor.)

Gottfried, Herbert R., Erie, Pa. Price indicator. 1,473,035; Nov. 6.

Gould, Samuel C., Bridgeport, Conn. Towline bumper. 1,473,288; Nov. 6.

Gow, Alexander M., deceased, Duluth, Minn., American Exchange National Bank of Duluth, executor. Loading machine. 1,472,907. Nov. 6.

Graf, Raymond L., assignor to Keeler Brass Company, Grand Rapids, Mich. Automobile foot rail. 1,473,091; Nov. 6.

Graham, Sidney W. (See Devlin, W. F. C., and Graham.)

Graham, Walton C., and J. F. Rasmussen, Denver, Colo. Method and means for making show cards and the like. 1,472,973; Nov. 6.

Graves, John N., Oklahoma, Okla. Ice-cream packer or shipping receptacle. 1,473,226; Nov. 6.

Greco, Anthony, San Jose, Calif. Treating fruit to be dried. 1,472,974; Nov. 6.

Green & Green Company, The. (See Green, Weston, assignor.)

Green, Weston, assignor to The Green & Green Company, Dayton, Ohio. Making a food product. 1,473,289; Nov. 6.

Greenberg, Leon S., Newark, N. J. Molding flask. 1,472,975; Nov. 6.

Greenham, Richard, San Francisco, Calif. Water heating and circulating device. 1,473,036; Nov. 6.

Greenleaf, Robert P., assignor to F. Billings, Cleveland, Ohio. Loading machine. 1,473,227. Nov. 6.

Greig, John W., Ivanhoe, Victoria, Australia. Vacuum-producing apparatus. 1,473,037; Nov. 6.

Greist, Hubert M., New Haven, Conn. Lamp fixture. 1,473,424; Nov. 6.

Greve, Herman L., assignor to International Mailing Tube and Wrapper Company, Brooklyn, N. Y. Cordage wrapper. 1,473,578; Nov. 6.

Greve, Herman L., assignor to International Mailing Tube and Wrapper Company, Brooklyn, N. Y. Mailing wrapper. 1,473,576; Nov. 6.

Greve, Herman L., assignor to International Mailing Tube and Wrapper Company, Brooklyn, N. Y. Mailing wrapper. 1,473,577; Nov. 6.

Gross, Robert P., Los Angeles, Calif. Container for toilet articles. Des. 63,224; Nov. 6.

Gruenberg, Raoul J., assignor to The Paraffine Companies, Inc., San Francisco, Calif. Box-gluing machine. 1,473,188; Nov. 6.

Grundel, Josef, New York, N. Y. Ladder. 1,473,228; Nov. 6.

Grünhagen, Heinrich, Berlin-Karlshorst, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. 2,7-dialkyl-3-dialkylamino-6-amino-10-alkylacridinum salts. 1,473,550; Nov. 6.

Gschwind, Leon, Youngstown, Ohio. Direct sewer inlet. 1,473,551; Nov. 6.

Gubich, Emerik, Minneapolis, Minn. Condiment container. 1,473,552; Nov. 6.

Gulf Refining Company. (See Prichard, G. L., and Henderson, assignors.)

Gunn, Earl G., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,473,092; Nov. 6.

Gunn, Earl G., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicles. 1,473,093; Nov. 6.

Gwynes, George B., Andersonville, Ga. Plow blade. 1,473,229; Nov. 6.

Gyllsdorff, Torsten A., assignor to Standard Reamer & Tool Company, Detroit, Mich. Reamer. 1,472,798; Nov. 6.

H & H Patent Development Company. (See Hebern, Edward H., assignor.)

H. & H. Machine Company. (See Howdeshell, Roland M., assignor.)

Habicht, Otto, Muhlheim-on-the-Main, Germany. Pressing bow and last. 1,473,038; Nov. 6.

Hacker, Josephus A., Chicago, Ill. Diaphragm for sound-conveying instruments. 1,472,830; Nov. 6.

Hain, Willoughby L. T., Philadelphia, Pa. Vending machine. 1,473,230; Nov. 6.

Haines, Isaac O., Pittsburgh, Pa. Shock absorber. 1,473,343; Nov. 6.

Hall, Daniel E., Bath, Me. Traffic-signaling device. 1,472,976; Nov. 6.

Hallanan, Michael, New York, N. Y. Nonskid device for tires. 1,473,425; Nov. 6.

Halliwell, Walter, Heaton Chapel, assignor to Sir W. G. Armstrong, Whitworth & Company, Limited, Newcastle-on-Tyne, England. Work-rotating gear adapted for use in connection with hydraulic presses, steam hammers, and the like. 1,472,977; Nov. 6.

Hamer, Walter, Devonport, Auckland, New Zealand. Apparatus for cooling purposes. 1,472,831; Nov. 6.

Hamilton Triplex Razor Co. Inc. (See Hamilton, William H. W., assignor.)

Hamilton, William H. W., assignor to Hamilton Triplex Razor Co. Inc., Buffalo, N. Y. Razor. 1,473,426; Nov. 6.

Hammer, Samuel, New York, assignor to United Metal Box Co., Inc., Long Island City, N. Y. Hinge structure. 1,473,290; Nov. 6.

Hammond, John H., jr., Gloucester, Mass. Submarine mine. 1,473,148; Nov. 6.

Hammond, John H., jr., Gloucester, Mass. System for controlling moving bodies from a distance. 1,473,149; Nov. 6.

Handley, William, Camden, N. J. Elastic fabric. 1,473,427; Nov. 6.

Hanes, James G., Winston-Salem, N. C. Apparatus for drying hosiery. 1,472,978; Nov. 6.

Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Centrifugally separating refrigerated ingredients and centrifugal bowl used in such process. 1,472,868; Nov. 6.

Hardwicke-Etter Company. (See Streun, John A., assignor.)

Harkins, Thomas F., assignor, by mesne assignments, to The Little Giant Machine Company, Denver, Colo. Placer-mining machine. 1,473,039; Nov. 6.

Harris, Orlando C., Louisville, Ky. Combined street sign and trash receptacle. 1,473,040; Nov. 6.

Harris, Thomas T., Roanoke, Va. Machine for cutting brick ice cream. 1,473,553; Nov. 6.

Harris, William, Slocan City, British Columbia, Canada. Gate for railway crossings or the like. 1,472,979; Nov. 6.

Harroun, Ray W., Detroit, Mich. Vehicle wheel. 1,473,406; Nov. 6.

Harsh, Clarence E., assignor of one-half to R. M. Schory, Minerva, Ohio. Window-shade bracket. 1,473,291; Nov. 6.

Hart, Harold A., West Hartford, assignor to The Hart Manufacturing Company, Hartford, Conn. Electric switch. 1,473,579; Nov. 6.

Hart, Harry S., Chicago, Ill. Dump-car-door locking and releasing attachment. 1,472,908; Nov. 6.

Hart Manufacturing Company, The. (See Hart, Harold A., assignor.)

Hartford-Fairmont Company. (See Peller, Karl E., assignor.)

Haskell, Sprague F., assignor of one-half to C. D. Lyon, St. Louis, Mo. Weather strip. 1,473,428; Nov. 6.

Hatch, Luman W., Stamford, Conn. Loose coupler or receiving coil. 1,473,407; Nov. 6.

Hauptmann, Adolf K., deceased, Philadelphia, Pa.; M. Hauptmann, administratrix. Stop mechanism for knitting machines. 1,473,580; Nov. 6.

Hauptmann, Maria, administratrix. (See Hauptmann, Adolf K.)

Hawaiian Pineapple Company. (See Hoyt, Simes T., assignor.)

Hawker, William J., assignor to Gifford Fox & Company Limited, Chard, Somerset, England. Lace machine. 1,473,094; Nov. 6.

Hawkins, Wilford J. (See Clark, W. L., and Hawkins.)

Hayduck, Friedrich, Wilmersdorf, Germany, assignor to The Fleischmann Company, New York, N. Y. Manufacture of yeast. Re15,716; Nov. 6.

Hebern, Edward H., assignor to H & H Patent Developing Company, Oakland, Calif. Electric typewriting machine. 1,473,292; Nov. 6.

Heibronner, André. (See Henri, V., Heibronner, and von Recklinghausen.)

Heller, Carl, New York, N. Y. Combination bed and table. 1,473,370; Nov. 6.

Henderson, Albert E., Toronto, Ontario, Canada. Tourniquet. 1,473,041; Nov. 6.

Henderson, Carl, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Lithographic and printing form roller. 1,472,909; Nov. 6.

Henderson, Herbert. (See Prichard, G. L., and Henderson.)

Hendricks, Isaac L., Chattanooga, Tenn. Safety razor. 1,473,344; Nov. 6.

Hennings, William H., Chicago, Ill. Weeding and transplanting device. 1,472,832; Nov. 6.

Henri, Victor, Zurich, Switzerland, A. Heibronner, Paris, France, and M. von Recklinghausen, New York, N. Y. Apparatus for sterilizing liquids by means of ultra-violet rays. 1,473,095; Nov. 6.

Herold, Walter F., Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn. Removing caster sockets from furniture. 1,472,833; Nov. 6.

Hess, George H., La Grange Park, Ill. Cabinet. 1,473,345; Nov. 6.

Heyl, Albert D., New York, N. Y. Platform elevator. 1,473,231; Nov. 6.

Heyl & Patterson, Inc. (See Bickley, Ross M., assignor.)

Heyl & Patterson, Inc. (See Vogel, Joseph F., assignor.)

Hickok Manufacturing Company. (See Davis, Earl M., assignor.)

Hickok Manufacturing Company. (See Shields, Lowell W., assignor.)

Hill, Irving, and P. A. Dinsmoor, assignors to Lawrence Paper Manufacturing Company, Lawrence, Kans. Machine for making cellular board. 1,473,096; Nov. 6.

Hill, Percy L., New York, N. Y., deceased; J. W. Anderson, administrator. Recording apparatus. 1,473,554; Nov. 6.

Hill, Raymond S., Minneapolis, Minn. Carburetor. 1,472,834; Nov. 6.

Hils, Wilhelm, Philadelphia, Pa. Tie form or holder. 1,473,346; Nov. 6.

Himes, Charles C., Indianapolis, Ind. Vehicle bumper. 1,473,371; Nov. 6.

Hirschhorn, Benjamin and L. Hirschhorn, assignors, by mesne assignments, to Millie Patent Holding Co. Inc., New York, N. Y. Tea cartridge. 1,473,430; Nov. 6.

Hirschhorn, Louis, assignor, by mesne assignments, to Millie Patent Holding Co. Inc., New York, N. Y. Tea cartridge. 1,473,429; Nov. 6.

Hirschhorn, Louis. (See Hirschhorn, Benjamin and L.)

Hoagland, Frank O., Bridgeport, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Lapping machine. 1,472,835; Nov. 6.

Hodgetts, Harold W., assignor to The Allen Company, Springfield, Mass. Casket handle. Des. 63,225; Nov. 6.

Hodgetts, Raymond W., assignor to The Allen Company, Springfield, Mass. Casket handle. Des. 63,226; Nov. 6.

Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Portable oven. 1,472,836; Nov. 6.

Hoke, William E., St. Louis, Mo., assignor to Pratt & Whitney Company, New York, N. Y. Precision gauge. 1,472,837; Nov. 6.

Holbrook, David M., Portland, Oreg. Automatic faucet. 1,473,097; Nov. 6.

Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company, Controlling mechanism. 1,473,601; Nov. 6.

Hollenbeck, Royal B., and H. Roe, Flint, Mich. Upholstery-securing device. 1,473,098; Nov. 6.

Holmes Frank H., Chicago, Ill. Neckwear. 1,473,099; Nov. 6.

Holstad, Gilbert O., Ridgeway, Iowa. Transmission. 1,473,555; Nov. 6.

Holstein, Otto, St. Paul, Minn. Device for cleaning fur articles. 1,473,431; Nov. 6.

Hopkinson, Joseph, assignor, by mesne assignments, to Dayton Scale Company, Dayton, Ohio. Counting scale. 1,473,232; Nov. 6.

Hosch, Mathias J., Randolph, Nebr. Hog trough. 1,473,100; Nov. 6.

Hoskins, William, Chicago, Ill. Producing chemical reactions. 1,473,347; Nov. 6.

Hossfeld, Albert, Lewiston, Minn. Iron bender. 1,473,101; Nov. 6.

Houghtaling, Gerald A., Indianola, Iowa. Fuel-control device. 1,473,293; Nov. 6.

Housdorfer, Reinhold G., Detroit, Mich. Axle dies. 1,473,102; Nov. 6.

Howard Frank A., Elizabeth, N. J., assignor to Standard Development Company. Operating oil wells. 1,473,348; Nov. 6.

Howdeshell, Roland M., St. Louis, Mo., assignor to H. & H. Machine Company. Piston for engine cylinders. 1,473,233; Nov. 6.

Hower, Harry C., Chicago, Ill. Automobile tire. Des. 63,227; Nov. 6.

Hower, Harry C., Chicago, Ill. Automobile tire. Des. 63,228; Nov. 6.

Hower, Harry C., Chicago, Ill. Automobile tire. Des. 63,229; Nov. 6.

Hoyt, Simes T., assignor to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Slicing machine. 1,472,838; Nov. 6.

Hrebek, Frank, Cleveland, Ohio. Guard for wringers and ironing machines. 1,473,042; Nov. 6.

Hubbard, Eber J., Berwyn, Ill. Spool. 1,472,980; Nov. 6.

Hug, Christian J., Highland, Ill. Subgrading machine. 1,473,372; Nov. 6.

Huise, George E., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Connecting device for belts. 1,472,910; Nov. 6.

Huise, Walter S., Pine Grove, Pa. Compressed-air water pump. 1,472,839; Nov. 6.

Humphreys, Albert H., Woolwich, Me., assignor of one-half to J. C. De Wolf, Middletown, Conn. Line hook. 1,472,840; Nov. 6.

Humphris, Frank, Boscombe, Bournemouth, England, assignor of one-half to K. A. Roberts, London, England. Mechanical press. 1,473,478; Nov. 6.

Hundley, James, Noblesville, Ind. Interlocking building brick. 1,472,911; Nov. 6.

Hunt, Emily P. (See Hunt, George W., assignor.)

Hunt, George W., Chicago, assignor to E. P. Hunt, Evanston, Ill. Desk-locking mechanism. 1,472,841; Nov. 6.

Hunter, Thomas, Albany, N. Y. Automobile license plate. 1,473,479; Nov. 6.

Hutchison, Miller R., West Orange, N. J. Accessory for notebooks or the like. 1,473,294; Nov. 6.

Huxter, Walter L. (See Jackson, C., and Huxter.)

Huye, Joseph G., New Orleans, La. Box. 1,473,432; Nov. 6.

Hydraulic Brake Company. (See Loughead, Malcolm, assignor.)

Hyman, Elizabeth A., Penacook, N. H. Toy. 1,472,842; Nov. 6.

Iafrate, Michele, New York, N. Y. Automobile identification device. 1,473,556; Nov. 6.

Igo, Thomas C., Cleveland, Ohio. Lens for automobile lamp. Des. 63,230; Nov. 6.

Industrial Research Corporation. (See Brockway, Carl P., assignor.)

Ingersoll, John L., Evart, Mich. Bow-facing oar. 1,473,557; Nov. 6.

International Mailing Tube and Wrapper Company. (See Greve, Herman L., assignor.)

Intlehouse, Emil H. (See Steedsman, V. D., and Intlehouse.)

Interstate Iron and Steel Company. (See McGaff, John, assignor.)

Jackson, Charles, and W. L. Huxter, assignors, by mesne assignments, to The National Auto Lock Company, Baltimore, Md. Device to prevent stealing of automobiles. 1,472,843; Nov. 6.

Jackson, Truverton J., Columbus, Ohio. Tire patch. 1,473,184; Nov. 6.

Jacobs, James J., assignor of one-fourth to R. B. Bostwick, one-fourth to J. Ring, and one-fourth to W. Salters, Duquesne, Pa. Glare screen. 1,473,185; Nov. 6.

Jeannette Toy & Novelty Co. (See Stough, Turney H., assignor.)

Jenne, Elmer E., Ilion, N. Y. Moistener for envelopes and the like. 1,473,594; Nov. 6.

Jensen, John, assignor to Whitney Metal Tool Company, Rockford, Ill. Punch. 1,473,558; Nov. 6.

Jerry, Carl R., Somerville, Mass. Eyeglass receptacle. 1,473,559; Nov. 6.

Jobst, Conrad, assignor to R. L. Ellery, Toledo, Ohio. Die head. 1,472,912; Nov. 6.

Johnsgaard, Emil, Fairview, Mont. Combination tool. 1,473,186; Nov. 6.

Johnson, Correl W., New York, N. Y. Sound clarifier. 1,473,560; Nov. 6.

Johnson, Richard V., Meridian, Tex. Wire stretcher. 1,473,150; Nov. 6.

Johnson, Walter J. O., Chicago, Ill., assignor to The Allbright-Nell Co. Sausage-linking machine. 1,473,234; Nov. 6.

Johnston, John T., and J. Kincaid, Vancouver, British Columbia, Canada. Water motor. 1,473,103; Nov. 6.

Johnstone, William O., North Tonawanda, N. Y. Building-wall construction. 1,472,981; Nov. 6.

Jones, Branham W., San Antonio, Tex. Automobile identifying means. 1,473,561; Nov. 6.

Jones, Coulter W., assignor to The Dow Chemical Company, Midland, Mich. Recovering bromine. 1,473,295; Nov. 6.

Jones, El Dorado, New York, N. Y. Muffler. 1,473,235; Nov. 6.

Jones, Harry M. (See Peart, F. L., and Jones.)

Jones, John W., Mrs., et al. (See Rogers, Joseph C., assignor.)

Jones, Peter, Wigan, England. Pneumatic tire. 1,472,913; Nov. 6.

Jonsson, Gustaf E., Halmstad, Sweden. Apparatus for preventing the bursting by freezing of water-circulation systems for combustion engines in motor cars and the like. 1,473,562; Nov. 6.

Julson, Oscar M., Groton, S. Dak. Hitch. 1,473,563; Nov. 6.

Jurgensen, August P., New York, assignor to I. Goldberg, Brooklyn, N. Y. Cream dipper. 1,473,104; Nov. 6.

Juvinall, Orla E., Danville, Ill. Bench clamp. 1,472,982; Nov. 6.

Kach, Robert Portland, Oreg. Gas mixer. 1,473,349; Nov. 0.

Kaefer, John G., Oakley, Ohio. Dispensing device. 1,473,187; Nov. 6.

Kales Stamping Company. (See Zink, Fred W., assignor.)

Kavanagh, Edward, Chicago, Ill. Cowl lamp. Des. 63,231; Nov. 6.

Kay, George E. O. (See Champ, G. H., and Kay.)

Kebler, Leonard, Bronxville, N. Y., assignor to Ward Leonard Electric Company. Rheostat. 1,472,914; Nov. 6.

Keeler Brass Company. (See Graf, Raymond L., assignor.)

Keith, Robert, Hornbeak, Tenn. Cotton-picker's bag carrier. 1,473,105; Nov. 6.

Keller, Arthur C., assignor to Pawling & Harnischfeger Company, Milwaukee, Wis. Power-transmitting mechanism. 1,472,844; Nov. 6.

Keller, John. (See Mayer, Fritz, assignor.)

Keller, Joseph F. (See Cartwright, W. P., and Keller.)

Keller Mechanical Engraving Company. (See Cartwright, W. P., and Keller, assignors.)

Kelley, Charles N., Madison, Wis. Self-closing tube. 1,472,845; Nov. 6.

Kellogg Switchboard and Supply Company. (See Bohlman, Ernest A., assignor.)

Kemp, Frances M. (See Ray, Sterling P., assignor.)

Kent-Norris, Henry, assignor to Plenty & Son Limited, Newbury, England. Governing mechanism for internal-combustion engines. 1,472,869; Nov. 6.

Kermer, Martin J., Evanston, Ill. Evaporator. 1,473,373; Nov. 6.

Kerngood, Allen H., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Lever belt buckle. 1,473,581; Nov. 6.

Kessler, Christian H. (See Densmore, F. R., and Kessler.)

Kettle, Arthur W., and A. A. Thayer, assignors to Auto Spring Control Company, Inc., Jamestown, N. Y. Shock absorber. 1,472,870; Nov. 6.

Kidwell, Cleo H., New Brighton, N. Y., assignor to J. M. van Heusen, Boston, Mass. Eyeglass and making the same. 1,473,151; Nov. 6.

Kiesel, William F., jr., Altoona, Pa. Drifting valve. 1,473,106; Nov. 6.

Kincaid, John. (See Johnston, J. T., and Kincaid.)

Kindl, Carl H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Starting mechanism for automobiles. 1,472,871; Nov. 6.

Kindl, Carl H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Starting mechanism for automobiles. 1,472,872; Nov. 6.

Kirschmann, Leopold, Berlin-Halensee, Germany. Evaporative refrigerator. 1,473,593; Nov. 6.

Kishpaugh, Arthur W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Carrier-wave transmission system. 1,473,433; Nov. 6.

Klein, Joseph B., Colton, Wash. Wheel expander. 1,472,915; Nov. 6.

Klein, William C., Allentown, Pa. Making steel or semi-steel car wheels. 1,473,480; Nov. 6.

Kleist, Arthur F., Pontiac, assignor to Central Stamping Company, Detroit, Mich. Valve-operating mechanism. 1,473,481; Nov. 6.

Klepper, Charles. (See Klepper, Joseph and C.)

Klepper, Joseph and C., Brooklyn, N. Y. Clutch. 1,473,564; Nov. 6.

Kline, Charles R., Reading, Pa. Furnace insulation. 1,473,296; Nov. 6.

Klingbeil, Gottlieb L. E., Omaha, Nebr. Spring spreader for vehicle springs. 1,472,916; Nov. 6.

Knight, Lionel B., Fort Pirie, South Australia, Australia. Seed drill. 1,473,297; Nov. 6.

Knowles, Alanson A., et al. (See Donald, William H., assignor.)

Knowles, Frederick A., et al. (See Donald, William H., assignor.)

Knowlton, Cutler D., Rockport, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-pressing machine. 1,472,846; Nov. 6.

Knubel, Anton, deceased, by F. Köster, administrator, assignor to H. Knubel, Munster, Germany. Making hand wheels. 1,473,189; Nov. 6.

Knubel, Helene. (See Knubel, Anton, assignor.)

Knutson, Alfred W., assignor to A. V. Rowe, Galesburg, Ill. Attachment for tractor and motor vehicles. 1,473,298; Nov. 6.

Koenig, Albert, et al. (See Angell, Frank B., assignor.)

Kohl, Theodore G., assignor to The Anko Manufacturing Company, Wausau, Wis. Chimney cleaner. 1,473,236; Nov. 6.

Kohler Company. (See Brotz, Anton F., assignor.)

Kohlhepp, John W., assignor to The Allbright-Nell Company, Chicago, Ill. Hog-dehairing machine. 1,473,299; Nov. 6.

Kohman, Ernest J., Dillon, Kans. Regulator for electric generators. 1,472,873; Nov. 6.

Kohn, Milton M., New York, N. Y. Resistor. 1,473,107; Nov. 6.

König, Adolf, Hoboken, N. J., assignor to H. K. Lorentzen, New York, N. Y. Method of and apparatus for making saws or saw blades. 1,473,374; Nov. 6.

Koning, Klaas F., The Hague, Netherlands. Wheel tire. 1,473,565; Nov. 6.

Koppers Company, The. (See Sperr, Frederick W., jr., assignor.)

Köster, Felix, administrator. (See Knubel, Anton.)

Kotter, Theodore P., Hollis, N. Y. Toy clown. Des. 63,232; Nov. 6.

Kramp, Arthur M., L. F. Peters, and E. J. Rathsack, Milwaukee, Wis. Feed collet. 1,473,188; Nov. 6.

Krause, Louis. (See Larras, H., and Krause.)

Krause, Walter, Fliesack, Germany. Irrigation system. 1,472,799; Nov. 6.

Kreutzberger, Paul L. G., and P. Germain, Bellevue-Meudon, France. Process and apparatus for burning heavy hydrocarbons. 1,473,566; Nov. 6.

Krick, Arthur E., Indianapolis, Ind. Vacuum pump. 1,472,874; Nov. 6.

Kruecer, Theodore H., New York, N. Y. Moistening device. 1,473,434; Nov. 6.

Kruger, Charles M., assignor to Parbee Manufacturing Company, St. Louis, Mo. Bung. 1,473,300; Nov. 6.

Kruger, Harry B. (See Strandberg, Julien, assignor.)

Kruger, Paul W., Attala County, Miss. Composition of matter for filling root canals in teeth. 1,473,482; Nov. 6.

Kubicki, Andrew, Webster, Mass. Adjustable fire box. 1,473,237; Nov. 6.

Kutina, William H., Ewen, Mich. Automobile wheel. 1,473,485; Nov. 6.

Kyle, William D., Milwaukee, Wis. Traffic indicator. 1,473,375; Nov. 6.

Laird, Albert N., Detroit, Mich. Precast reenforced concrete construction. 1,472,917; Nov. 6.

Lamb, John, assignor of one-half to J. B. Wilson, Oldham, Lancaster, England. Spring tire for vehicle wheels. 1,472,918; Nov. 6.

Landis, Jesse A., Eaton, Ohio. Tiltable headlight. 1,472,875; Nov. 6.

Lane, Alfred M., assignor to Monarch Metal Products Company, St. Louis, Mo. Awning for automobiles. 1,472,919; Nov. 6.

Lane, James A., Los Angeles, Calif. Window stay. 1,472,920; Nov. 6.

Lang, E. G., Manufacturing Company, The. (See Lang, Edwin G., assignor.)

Lang, Edwin G., Bayside, assignor to The E. G. Lang Manufacturing Company, New York, N. Y. Folded-index-strip machine and process. 1,473,190; Nov. 6.

Langenzen, David, New York, N. Y. Dispensing apparatus. 1,473,376; Nov. 6.

Langston, Samuel M., Wenonah, N. J. Machine for cutting composition shingles. 1,473,377; Nov. 6.

Lapham, Jared S., Northville, Mich., assignor of one-half to J. T. McMahon, Toledo, Ohio. Dishwashing machine. 1,473,301; Nov. 6.

Larras, Harry, and L. Krause, New York, N. Y. Electric nail-polishing machine. 1,472,876; Nov. 6.

Lauer, William M., Glens Falls, N. Y. Trolley lock. 1,473,567; Nov. 6.

Lauhoff, Frank, Detroit, Mich. Resilient wheel. 1,473,483; Nov. 6.

Lawrence, Frederick K., Chicago, Ill., assignor to Self-Mounting Carrier Company, Wilmington, Del. Carrier for spare wheels and the like. 1,472,983; Nov. 6.

Lawrence Paper Manufacturing Company. (See Hill, L., and Dinsmoor, assignors.)

Lea, John M., Detroit, Mich. Battery-plate-treating apparatus. 1,473,109; Nov. 6.

Leedom, Randolph, Clifton, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Pole cleaning and shaving machine. 1,473,582; Nov. 6.

Leeseberg, Henry C. (See Pillars, E. R., and Leeseberg.)

Leichtfuss, Herman F., Milwaukee, Wis. Water seal for containers. 1,473,302; Nov. 6.

Lenck, Karl, Berlin, Germany. Steering arrangement for motor-driven boats. 1,473,484; Nov. 6.

Lenger, Walter, Dessau, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Converting silver prints into color prints. 1,473,568; Nov. 6.

Leuher, Victor, Madison, Wis. Effecting solution of substances and removing coatings from bodies. 1,473,359; Nov. 6.

Leopold, George O., assignor to North Bro's M'f'g Co., Philadelphia, Pa. Handle for socket wrenches. 1,473,436; Nov. 6.

Leopold, George O. (See Fegley, T. J., and Leopold.)

Leves, Max J., Sarasota, Fla. Necktie support. 1,472,984; Nov. 6.

Levi, William L., St. Louis, Mo. Curtain support. 1,472,921; Nov. 6.

Levin, Abraham, Dallas, Tex. Telephone support. 1,473,191; Nov. 6.

Lewis, Chester F., Greensboro, N. C. Hair clipper. 1,473,238; Nov. 6.

Lewis, G. R., Company. (See Frater, Gordon, assignor.)

Leyner, John G., deceased, Littleton; L. M. Leyner, executrix, assignor to The Leyner Tractor and Manufacturing Company, Denver, Colo. Ground-treading endless traction track and its supporting truck. 1,473,569; Nov. 6.

Leyner, John G., deceased; L. M. Leyner, administratrix, Littleton, Colo. Steering mechanism for the trucks of tractors and traction engines. 1,473,570; Nov. 6.

Leyner, Lina M., executrix. (See Leyner, John G.)

Leyner Tractor and Manufacturing Company, The. (See Leyner, John G., assignor.)

Libbey-Owens Sheet Glass Company, The. (See Brown, Wilbur F., assignor.)

Libertini, Frank, and A. Saveno, Fairview, N. J. Truck-loading scoop. 1,473,109; Nov. 6.

Lichtenstein, Edward N., Baltimore, Md. Sanitary bath receptacle. 1,472,877; Nov. 6.

Lightford, William L., Indianapolis, Ind. Fuel control for internal-combustion engines. 1,473,303; Nov. 6.

Lilleberg, Charles L., Chicago, Ill. Switching device. 1,473,304; Nov. 6.

Lillibridge, Harry D., Zanesville, Ohio, assignor to American Encaustic Tiling Co., Ltd., New York, N. Y. Tunnel-kiln car. 1,473,152; Nov. 6.

Lindstrom, Walter R., assignor of one-third to E. C. McKenna, Minneapolis, Minn. Detachable gaide or tip for fishing rods. 1,473,437; Nov. 6.

Lippert, Aloysius C., Kenosha, Wis., and J. A. Sinko, assignors to Advance Products Corporation, Chicago, Ill. Radiator cap. 1,472,878; Nov. 6.

Liptak Fire-Brick Arch Company. (See Strachota, Clarence A., assignor.)

Lisse, Leopold, Berlin, Germany. Preparing blasting charges for ignition. 1,473,596; Nov. 6.

Litle, Thomas J., jr., assignor, by mesne assignments, to H. H. Emmons, Detroit, Mich. Dust guard for bearings. 1,473,110; Nov. 6.

Little, Frederick B., assignor to J. C. Deagan, Inc., Chicago, Ill. Sound-producing mechanism. 1,473,485; Nov. 6.

Little Giant Machine Company, The. (See Harkins, Thomas F., assignor.)

Livingston, Stanley D., assignor to The Connecticut Telephone & Electric Company Inc., Meriden, Conn. Electric switch. 1,472,800; Nov. 6.

Lohn, Albert W., jr., et al. (See Lohn, Albert W., jr., assignor.)

Lohn, Albert W., jr., Los Angeles, Calif., assignor to A. W. Lohn, jr., and W. M. Lohn. Auto door sign. 1,473,583; Nov. 6.

Lohn, Winifred M., et al. (See Lohn, Albert W., jr., assignor.)

Longyear, E. B., Company. (See Anderson, Olaf B., assignor.)

Loomis, Evarts G., Newark, N. J., assignor to Viscoloid Company, Leominster, Mass. Comb-cutting machine. 1,473,111; Nov. 6.

Lorentzen, Hans K. (See König, Adolf, assignor.)

Lorimer, John W., assignor to Atlas Imperial Engine Company, Oakland, Calif. Fluid-pressure regulator. 1,472,985; Nov. 6.

Lothrop, Marcus T., assignor to The Timken Roller Bearing Company, Canton, Ohio. Manufacture of roller-bearing cups and the like. 1,472,922; Nov. 6.

Loughead, Malcolm, Detroit, Mich., assignor, by mesne assignments, to Hydraulic Brake Company, Los Angeles, Calif. Pneumatically-assisted pressure-producing mechanism. 1,472,801; Nov. 6.

Luce, Grafton E., assignor to American Equipment Company, Chicago, Ill. Brick-pallet-handling apparatus. 1,473,305; Nov. 6.

Luckenbach, George H., Angleton, Tex. Ignition protector. 1,473,239; Nov. 6.

Luckenbach Processes, Inc. (See Luckenbach, Royer, assignor.)

Luckenbach, Royer, Brooklyn, N. Y., assignor to Luckenbach Processes, Inc., San Francisco, Calif. Ore-concentrating process. 1,473,192; Nov. 6.

Lundin, Carl W., assignor to Aktiebolaget Precisionsmått, Sundbyberg, Sweden. Adjustable limit gauge. 1,473,351; Nov. 6.

Lyndon, Lamar, New York, N. Y. Cell connecter for electric batteries. 1,472,923; Nov. 6.

Lyndon, Lamar, New York, N. Y. Water-wheel gate. 1,472,924; Nov. 6.

Lyon, Charles D. (See Haskell, Sprague F., assignor.)

McCallen, Walter F., assignor of one-half to A. E. Elliott, Independence, Mo. Internal-combustion engine. 1,473,486; Nov. 6.

McCann, Michael, Glennorris, assignor to Frederick Osann Company, New York, N. Y. Buttonhole-cutter mechanism. 1,473,240; Nov. 6.

McCann, William F., et al. (See Paull, Arvin R., assignor.)

McCarthy, Edward F., Chicago, Ill. Hydraulic clutch for transmitting rotative motion from a driven shaft to a driving shaft. 1,473,487; Nov. 6.

McConnell-Brownell Engineering Company, The. (See McConnell, Harry R., assignor.)

McConnell, Harry R., assignor to The McConnell-Brownell Engineering Company, Richmond, Va. Chuck. 1,473,488; Nov. 6.

McCormack, James L. L., assignor, by mesne assignments, to Detex Corporation, Chicago, Ill. Watchman's time recorder. 1,472,925; Nov. 6.

McCormick, Hugh M. (See McCormick, Sara W. and H. M.)

McCormick, Sara W. and H. M., Chicago, Ill., assignors, by mesne assignments, to Champion Corset Company, Ypsilanti, Mich. Designing corset abdominal supports. 1,473,241; Nov. 6.

McCoy, Charles E., Logansport, Ind. Washing machine. 1,473,112; Nov. 6.

McCulla, William R., assignor to Packard Motor Car Company, Detroit, Mich. Carburetor. 1,473,113; Nov. 6.

McCutchen, Brunson S., Plainfield, N. J. Washing machine. 1,473,489; Nov. 6.

McDonald, Charles D., Chicago, Ill. Automatic stop device for strip-inserting mechanism of power presses. 1,472,802; Nov. 6.

McDonald, James H., Pocatello, Idaho. Plate or pan handling utensil. 1,472,926; Nov. 6.

McGaff, John, assignor of one-half to Interstate Iron and Steel Company, Chicago, Ill. Bushelling furnace. 1,472,803; Nov. 6.

McGann, George J., Providence, R. I. High-speed traverse mechanism for winding machines. 1,472,847; Nov. 6.

McGill Manufacturing Company. (See Gordon, David D., assignor.)

McGinley, James E. (See Randall, V. C., and McGinley.)

McGrath, John T., Bloomington, Ill. Combination vehicle lamp. 1,473,307; Nov. 6.

McGrath, John T., Bloomington, Ill. Reciprocating knife can opener. 1,473,306; Nov. 6.

McGraw, Daniel E. (See Stearns, R. O., and McGraw.)

McIntyre, Miles, Healdsburg, Calif. Automobile tool. 1,473,114; Nov. 6.

McKenna, Eugene C. (See Lindstrom, Walter R., assignor.)

McKenzie, Elliot, Mountain Iron, Minn. Automatic oil-can holder. 1,472,879; Nov. 6.

McLain, Frank H., Portland, Me. Wood-drilling lathe. 1,472,927; Nov. 6.

McMahon, James T. (See Lapham, Jared S., assignor.)

Maag, Max, Zurich, Switzerland. Drag-spindle mechanism. 1,472,848; Nov. 6.

Mack, William H., Johnson City, N. Y. Combination nonsmudging cigar and cigarette ash receiver and table. 1,472,804; Nov. 6.

Mackay, Joseph E., San Francisco, Calif. Cushion tire. 1,472,986; Nov. 6.

MacKay, Philip A., London, England. Treatment of sulphide ores containing lead and zinc. 1,473,193; Nov. 6.

MacKenzie, Hugh R., Toronto, Ontario, Canada. Counter-display price-indicating-ticket device. 1,472,928; Nov. 6.

Macwilliam, Hugh G., New Rochelle, N. Y. Window. 1,473,438; Nov. 6.

Magrady, Joseph J., Chicago, Ill. Adjustable locking and sealing device for use on scales. 1,473,352; Nov. 6.

Mahan, George H., assignor to Atlas Oil Burner Company, Chicago, Ill. Oil burner. 1,472,929; Nov. 6.

Mahr, Julius A., Minneapolis, Minn. Detachable sleigh runner for baby carriages. 1,472,880; Nov. 6.

Makowiecki, Wladyslaw, Philadelphia, Pa. Bomb thrower. 1,473,490; Nov. 6.

Manning, Fred W., Brooklyn, N. Y., assignor to Manning Refining Equipment Corporation. Method and apparatus for treating materials for filtering, decolorizing, and similar purposes. 1,473,491; Nov. 6.

Manning Refining Equipment Corporation. (See Manning, Fred W., assignor.)

Marsh, Samuel L., Los Angeles, Calif. Drainage fitting. 1,473,439; Nov. 6.

Marshall, Horace M., Vicksburg, Miss. Animal-trap attachment. 1,473,242; Nov. 6.

Martin, Cecil C., Seattle, Wash. Baseball game device. 1,473,308; Nov. 6.

Martin, Edward E. (See Moors, G. F., and Martin.)

Martin, William H., New York, N. Y., assignor to American Telephone and Telegraph Company. Forwarding system for ocean cables and the like. 1,472,849; Nov. 6.

Mason, Arthur C., Flint, Mich., assignor to General Motors Corporation, Detroit, Mich. Brake and clutch mechanism. 1,473,115; Nov. 6.

Massicotte, Louis G., Providence, R. I. Sealing-tape holder and moistener. 1,473,153; Nov. 6.

Mastin, Charles I. E., Midland Park, N. J. Packing. 1,473,492; Nov. 6.

Mastin, Charles I. E., Midland Park, N. J. Packing. 1,473,597; Nov. 6.

Mattingly Automatic Valve Co. (See Mattingly, C. F., and Montgomery, assignors.)

Mattingly Automatic Valve Co. (See Mattingly, Charles F., assignor.)

Mattingly, Charles F., assignor to Mattingly Automatic Valve Co., St. Louis, Mo. Automatic liquid-level gauge valve. 1,473,154; Nov. 6.

Mattingly, Charles F., Maplewood, and C. F. Montgomery, St. Louis, Mo., assignors to Mattingly Automatic Valve Co., St. Louis, Mo. Nonreturn valve. 1,473,155; Nov. 6.

Maximum Motors Co. (See Fonlke, Francis E., assignor.)

Mayer, Fritz, Ulm, Bavaria, assignor to J. Keller, Oberlenningen-Teck, Wurttemberg, Germany. Hydraulic coupling. 1,472,930; Nov. 6.

Mayer, Fritz, Ulm-on-the-Danube, assignor to J. Keller, Oberlenningen-Teck, Wurttemberg, Germany. Motor car. 1,473,194; Nov. 6.

Mayhew, Edward A., assignor to The Damascus Brake Beam Company, Cleveland, Ohio. Reversible brake-beam fulcrum. 1,473,116; Nov. 6.

Meilink, Charles F., Toledo, Ohio. Fireproof safe. 1,473,117; Nov. 6.

Melbourne, Thomas. (See Tilston, B. H., and Melbourne.)

Mentzer, John P., Chicago, Ill. Connecter link for anti-skid chains. 1,472,805; Nov. 6.

Merlien, Hiram A., et al. (See Whitney, William A., assignor.)

Mershon, Ralph D., New York, N. Y. Means for maintaining ebullition. 1,473,243; Nov. 6.

Michetti, Giorgio, Rome, Italy. Means for converting a continuous rotary motion into an intermittent motion. 1,473,493; Nov. 6.

Mickelsen, Jesse R., San Leandro, Calif. Accelerator pedal. 1,473,156; Nov. 6.

Middleton, William E., New Britain, Conn. Box-forming block. 1,473,244; Nov. 6.

Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Method and apparatus for molding tire casings. 1,472,881; Nov. 6.

Miehle Printing Press and Manufacturing Company. (See Blaine, Joseph R., assignor.)

Miehle Printing Press & Manufacturing Company. (See Henderson, Carl, assignor.)

Miely, Fred J. S., Gentry, Ark. Bull board for cattle cars. 1,473,494; Nov. 6.

Miller, Du Brul & Peters Manufacturing Company, The. (See Du Brul, Davila S., assignor.)

Miller, Frank P., Meadville, Pa. Metal-working tool. 1,473,245; Nov. 6.

Miller, Fred R., San Francisco, Calif. Sheet of music. 1,473,495; Nov. 6.

Miller, George M., assignor to Fraim-Slaymaker Hardware Co., Inc., Lancaster, Pa. Padlock with nonreversible shackle. 1,473,353; Nov. 6.

Miller-Masury, Arthur J., Cleveland, Ohio. Fence. 1,473,118; Nov. 6.

Millie Patent Holding Co. (See Hirschhorn, Benjamin and L., assignors.)

Millie Patent Holding Co. Inc. (See Hirschhorn, Louis, assignor.)

Miner, William H. (See Geiger, William A., assignor.)

Miner, William H. (See O'Connor, John F., assignor.)

Miyaguchi, Takeo, Sendagayamachi, Toyotamagori, Tokyofu, Japan. Cementation of boron into the surface of iron or steel. 1,472,850; Nov. 6.

Miyaguchi, Takeo, Sendagayamachi, Toyotamagori, Tokyofu, Japan. Cementation of boron into the surface of iron or steel. 1,472,851; Nov. 6.

Modlin, Frank E., St. Joseph, Mo. Gas producer. 1,473,119; Nov. 6.

Moeller, Max E., Brooklyn, N. Y. Manufacture of hydrometers. 1,473,309; Nov. 6.

Moline Plow Company. (See Rose, Charles B., assignor.)

Moline Plow Company. (See Seaholm, John P., assignor.)

Molins, Walter E., London, England. Machine for use in fitting together boxes of the slide and shell type. 1,473,496; Nov. 6.

Molnar, John. (See Roeglin, Henry R., assignor.)

Monarch Metal Products Company. (See Lane, Alfred M., assignor.)

Monckton, Sawyer Y., San Francisco, Calif. Wire fastener. 1,473,497; Nov. 6.

Monier, Quintus, Tucson, Ariz. Building tile. Des. 63,233; Nov. 6.

Montgomery, Cecil F. (See Mattingly, C. F., and Montgomery.)

Montupet, Léon, Paris, France. Machine for filling molds. 1,473,246; Nov. 6.

Moody, Herbert R., New York, N. Y. Making oils non-sludging. 1,472,882; Nov. 6.

Moore, Raymond G., assignor to The Bassick Company, Bridgeport, Conn. Door latch. 1,473,378; Nov. 6.

Moors, George F., and E. E. Martin, assignors to The Reclp-Roto Engine Company, St. Louis, Mo. Regulating device for steam boilers. 1,473,120; Nov. 6.

Moreau, Marcel. (See Puttaert, H. F., and Moreau.)

Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Loading machine. 1,473,157; Nov. 6.

Morgan, Edmund C., deceased, Richmond Hill, N. Y.; O. E. Morgan, executrix. Tunneling machine. 1,473,498; Nov. 6.

Morgan, Olive E., executrix. (See Morgan, Edmund C.)

Morison, Donald B., Hartlepool, England. Feed-water-control system. 1,472,931; Nov. 6.

Moron, Alfred L., East Boston, Mass. Milk dispenser. 1,473,499; Nov. 6.

Mossberg, Frank, Company. (See Tuttle, Walter I., assignor.)

Mossner, Peter C., Saginaw, Mich. Folding washbench. 1,473,195; Nov. 6.

Mowrer, Charles L., Hagerstown, Md. Undergarment. 1,473,500; Nov. 6.

Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Machine for milling blanks. 1,472,852; Nov. 6.

Munslow, William E., Steubenville, Ohio. Drinking fountain. 1,473,501; Nov. 6.

Murphy, Paul B., Nyack, assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,472,987; Nov. 6.
Murray, Charles E., jr., Trenton, N. J. Resilient tire. 1,473,502; Nov. 6.
Murrin, Francis A. (See Brenner, R. F., and Murrin.)
Myracle, Hobart M., Haynesville, La. Multiple fishing tool. 1,473,153; Nov. 6.
Nachtrieb, Norman D., assignor to H. T. Adams, Chicago, Ill. Temporary-binder ring. 1,473,354; Nov. 6.
Naibantian, Karakin, New York, N. Y. Automatic stop for talking machines. 1,473,503; Nov. 6.
Nasmith, John I., Eltham, London, England. Box, packing case, and the like. 1,473,196; Nov. 6.
Nasmith, John W., Manchester, England. Combing machine. 1,473,197; Nov. 6.
National Auto Lock Company, The. (See Jackson, C., and Huxter, assignors.)
Naylor, Joseph S., Clear Lake, Iowa. Cattle-leading ring. 1,472,883; Nov. 6.
Needham, Charles E. (See Gibson, W. A., and Needham.)
Neely, Richard E., Terre Haute, Ind. Rail clamp. 1,473,504; Nov. 6.
Neff, Harry D., Cambridge, Mass. Push broom or brush. 1,472,853; Nov. 6.
Nelson, Nels S., Harvey, N. Dak. Trap. 1,473,505; Nov. 6.
Nelson, Wilmer I., Warren, Mich. Making knife handles. 1,473,121; Nov. 6.
Nessler, Sylvia, New Holland, Ill. Thermotherapeutic applicator. 1,473,506; Nov. 6.
Nevius, George H., Shrewsbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nail polisher. Des. 63,234; Nov. 6.
Nevius, George H., Shrewsbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Shoe horn. Des. 63,235; Nov. 6.
Newbold, David M., jr., Philadelphia, Pa. Cigar case. 1,472,806; Nov. 6.
Newman, George W., Chicago, Ill., assignor to Wilson-Jones Loose Leaf Company. Quick-release means for loose-leaf books. 1,473,247; Nov. 6.
Nic-Heater Corporation. (See Nichols, James S., assignor.)
Nicholls, William H., Brooklyn, N. Y. Molding machine. 1,472,807; Nov. 6.
Nichols, James S., assignor to Nic-Heater Corporation, Atlanta, Ga. Heating device for open fireplaces. Re. 15,717; Nov. 6.
Nicholson, Stanley W., assignor to The Dura Company, Toledo, Ohio. Window strip for vehicle windows. 1,473,310; Nov. 6.
Niles-Bement-Pond Company. (See Blood, Harold L., assignor.)
Nitrogen Corporation, The. (See Clancy, John C., assignor.)
Noelting, William H., assignor to Faultless Caster Company, Evansville, Ind. Leg-mount caster support. 1,473,379; Nov. 6.
Norman, James M., assignor to Dowman Dozier Mfg. Co., Atlanta, Ga. Metal protection for building walls. 1,473,584; Nov. 6.
Norris, Almon E., Brookline, Mass. Hoisting device. 1,473,248; Nov. 6.
Norris, George H., and E. A. Ernest, assignors to Wisconsin Iron & Wire Works, Milwaukee, Wis. Wire-weaving machine. 1,472,988; Nov. 6.
North Bro's M'f'g Co. (See Leopold, George O., assignor.)
North Bro's M'f'g Co. (See Fegley, T. J., and Leopold, assignors.)
Nowak, Alois K. (See Smith, F. H., and Nowak.)
O. K. Tool Company, The. (See Conklin, George W., assignor.)
Obermaier, Carl A., Lompoc, Calif. Casting rod. 1,473,507; Nov. 6.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. 1,472,932; Nov. 6.
O'Flanagan, Michael, Roscommon, Ireland. Suspension support for beds and the like. 1,473,311; Nov. 6.
Older, Roy B., assignor to Allith-Prouty Company, Danville, Ill. Round-track tongue switch. 1,472,808; Nov. 6.
O'Nan, Charles B., assignor of one-half to J. C. Smith, El Paso, Tex. Mixing device. 1,473,508; Nov. 6.
O'Rourke, Frank G., Lackawanna, N. Y. Rotary engine. 1,473,249; Nov. 6.
Osann, Frederick Company. (See McCann, Michael, assignor.)
Osborn, Henry C., assignor to The American Multigraph Company, Cleveland, Ohio. Mechanism for holding type lines. 1,472,809; Nov. 6.
Osswald, Herman, Richmond Hill, N. Y. Press. 1,472,810; Nov. 6.
Ostenberg, Pontus, San Jose, Calif. Gap closer. 1,473,250; Nov. 6.
Packard, Ernest B. (See Wood, G. B., Bird, and Packard.)
Packard Motor Car Company. (See Church, Harold D., assignor.)
Packard Motor Car Company. (See Gunn, Earl G., assignor.)
Packard Motor Car Company. (See McCulla, William R., assignor.)
Packard Motor Car Company. (See Woolson, Lionel M., assignor.)
Pade, Max H., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Gravity conveyer. 1,473,509; Nov. 6.
Papworth, Walter A., Grand Rapids, Mich. Portable typewriting machine. 1,472,811; Nov. 6.
Paraffine Companies, Inc., The. (See Gruenberg, Raoul J., assignor.)
Parbee Manufacturing Company. (See Kruger, Charles M., assignor.)
Parker, Ray G., Dallas, Tex. Circuit-closing device. 1,473,198; Nov. 6.
Parks, Dennis, St. Louis, Mo. Leather-grading machine. 1,472,989; Nov. 6.
Parsons, Charles E., Englewood, N. J. Producing carbides of sodium and boron. 1,473,510; Nov. 6.
Passard, Cetal, New York, N. Y. Curling iron. 1,473,312; Nov. 6.
Paszkiewicz, Antony, Mount Carmel, Pa. Portière. 1,472,933; Nov. 6.
Pater, Carl J., Wyoming, Ohio, assignor to The Philip Carey Manufacturing Company. Method and apparatus for ornamenting mineral-surfaced roofing. 1,472,884; Nov. 6.
Pathe Exchange, Inc. (See Chanler, G. L., and Adatte, assignors.)
Patten, John, Baltimore, Md. Acid concentrator. 1,473,122; Nov. 6.
Patterson, Harry R., Toledo, Ohio. Ignition device for automobiles. 1,473,585; Nov. 6.
Patterson, Harry R., Toledo, Ohio. Electric power plant. 1,473,586; Nov. 6.
Patton, Calvin P. (See Patton, Samuel I., assignor.)
Patton, Samuel I., Dallas, assignor of one-third to C. P. Patton, Dallas County, Tex. Screen hanger. 1,473,159; Nov. 6.
Paull, Arvin R., assignor of one-third to B. J. Fisher and one-third to W. F. McCann, Utica, N. Y. Pulp-screening device. 1,472,934; Nov. 6.
Pawling & Harnischfeger Company. (See Keller, Arthur C., assignor.)
Pawsat, Ewald F., Sheboygan, Wis. Device for repairing pneumatic tires. 1,472,812; Nov. 6.
Peacock, Samuel, assignor to Wheeling Steel Corporation, Wheeling, W. Va. Hardened threaded socket and producing same. 1,473,251; Nov. 6.
Pearce, Oscar, and I. Bales, Houston, Tex. Tong. 1,473,123; Nov. 6.
Pearson, John E., Chicago, Ill. Oil burner. 1,473,511; Nov. 6.
Peart, Frederick L., and H. M. Jones, Denver, Colo. Mine-car coupler. 1,472,990; Nov. 6.
Pedersen, Dines C., Holbak, Denmark. Cultivator. 1,472,813; Nov. 6.
Pedersen, Johannes T., Flushing, assignor to A. M. Sloss, New York, N. Y. Coffee urn. 1,473,440; Nov. 6.
Pedersen, John D., Jackson, Wyo. Firearm. 1,473,571; Nov. 6.
Peerless Paper Products Company. (See Simmons, Paul R., assignor.)
Peiler, Karl E., West Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Apparatus for feeding molten glass. 1,473,587; Nov. 6.
Pendleton, Charles B., Denver, Colo. Automatic fluid-pressure displacement pump. 1,473,512; Nov. 6.
Pennsylvania Tank Car Company, The. (See Drake, Whittlesey A., assignor.)
Peraza, Jose C., New York, N. Y. Oscillating internal-combustion engine. 1,473,199; Nov. 6.
Perham, Arthur L., assignor to Vickers Limited, Westminster, London, England. Control system for gun mounting and other mechanism. 1,472,885; Nov. 6.
Perry, Thomas O., Oak Park, Ill. Automatic motor switch. 1,473,441; Nov. 6.
Peters, Ludwig F. (See Kramp, A. M., Peters, and Rathsack.)
Peterson, John, Faribault, Minn. Lamp-shade holder. 1,473,380; Nov. 6.
Pettengill, Timothy H., Amsterdam, N. Y. Turbine. 1,473,513; Nov. 6.
Pfous, Frank, Coshocton, Ohio, assignor to American Lead Pencil Company, New York, N. Y. Display cabinet. Des. 63,236; Nov. 6.
Philip Carey Manufacturing Company, The. (See Pater, Carl J., assignor.)
Platt, Charles D., Kansas City, Mo. Display device. 1,473,313; Nov. 6.
Pierce, Frederic E. (See Chase, M. F., Pierce, and Skogmark.)
Pike, Robert D., San Francisco, Calif. Calcining apparatus. 1,472,935; Nov. 6.
Pillars, Edward R., and H. C. Leeseberg, Fostoria, Ohio. Minor-caliber fuse. 1,473,355; Nov. 6.
Pine, Wilber J., Oshkosh, Wis. Combination metal-working machine. 1,473,356; Nov. 6.
Pinkard, Arthur L., Youngstown, Ohio. Swimming device. 1,473,514; Nov. 6.
Pitman, Henry L., Brooklyn, N. Y. Spring motor. 1,472,936; Nov. 6.
Pittsburgh Transformer Company. (See Bingay, Robert V., assignor.)

Plagg, William, Seattle, Wash. Container cover. 1,473,043; Nov. 6.
Plenty & Son Limited. (See Kent-Norris, Henry, assignor.)
Pletman, Abraham, Schenectady, N. Y. Toothbrush. 1,473,357; Nov. 6.
Poccia, Loreto, Mamaroneck, N. Y. Air compressor. 1,473,314; Nov. 6.
Poirier, Edmon R., San Francisco, Calif. Bath and massage brush. 1,473,315; Nov. 6.
Pokorny, James T., Cedar Bayou, assignor to A. T. Eddington, Port Arthur, Jefferson County, Tex. Molding machine. 1,473,044; Nov. 6.
Pope, John W., Memphis, Tenn. Fare-collecting device. 1,472,937; Nov. 6.
Post, Harry M. and L. O., assignors of one-third to M. M. Swain, Los Angeles, Calif. Two-cycle gas engine. 1,473,515; Nov. 6.
Post, Leo O. (See Post, Harry M. and L. O.)
Pratt & Whitney Company. (See Erdman, Albert W., assignor.)
Pratt & Whitney Company. (See Hoagland, Frank O., assignor.)
Pratt & Whitney Company. (See Hoke, William E., assignor.)
Pratt & Whitney Company. (See Müller, Friederich, assignor.)
Pressed Steel Car Company. (See Blest, Minot C., assignor.)
Přibyl, Jaroslav, Prague, Czechoslovakia. Guitar and the like. 1,472,991; Nov. 6.
Prichard, George L., and H. Henderson, Port Arthur, Tex., assignors to Gulf Refining Company, Pittsburgh, Pa. Producing low-boiling oils. 1,473,316; Nov. 6.
Probst, John P., Marion, Ohio. Cistern. 1,473,358; Nov. 6.
Providence Rubber Company. (See Davis, Laurence R., assignor.)
Puttaert, Henry F., and M. Moreau, San Francisco, Calif. Portable electric fan. 1,473,045; Nov. 6.
Ragot, Charles L., New York, N. Y., and L. F. Ragot, Milford, Pa., assignors to Ragot Motor Corporation. Portable drilling machine. 1,473,046; Nov. 6.
Ragot, Louis F. (See Ragot, Charles L. and L. F.)
Ragot Motor Corporation. (See Ragot, Charles L. and L. F., assignors.)
Ramsey, George, Brooklyn, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Self-opening seal. 1,473,252; Nov. 6.
Raudall, Royal E., Fort Madison, Iowa. Emblem or badge. Des. 63,237; Nov. 6.
Randall, Vernon C., and J. E. McGinley, Portsmouth, Va. Auxiliary air device. 1,473,317; Nov. 6.
Ransom, Adolph, South Charleston, W. Va. Rack device. 1,473,318; Nov. 6.
Rasmussen, Julius F. (See Graham, W. C., and Rasmussen.)
Rathsack, Edward J. (See Kramp, A. M., Peters, and Rathsack.)
Rau Construction Company. (See Rau, Gustav, assignor.)
Rau, Gustav, assignor to Rau Construction Company, Kansas City, Mo. Composition for building tile. 1,473,047; Nov. 6.
Rau, Henry V., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Fuse plug. 1,473,381; Nov. 6.
Ray, Sterling P., assignor of one-half to F. M. Kemp, Urich, Mo. Tool box. 1,473,319; Nov. 6.
Raymond Concrete Pile Company. (See Smith, H. R., and Twist, assignors.)
Resch, William F., Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Tube skate. 1,472,886; Nov. 6.
Recip-Roto Engine Company, The. (See Moors, G. F., and Martin, assignors.)
Red Cross Manufacturing Co., The. (See Bartlemay, Arlie, assignor.)
Reed, Adam, Yakima, Wash. Shank stiffener. 1,473,516; Nov. 6.
Reeps, Charles O., Chicago, Ill. Laundry price chart. 1,473,382; Nov. 6.
Reichert, John, Racine, Wis. Traction or antiskid device. 1,473,442; Nov. 6.
Reid, Bertha W. (See Riegelman, Frank, assignor.)
Reynolds, Ralph V., Chicago, Ill. Stone-finished clapboard. 1,473,253; Nov. 6.
Richards, Rupert P., assignor to The Vulcan Foundry Limited, Newton-le-Willows, Lancaster, England. Riveting machine. 1,472,938; Nov. 6.
Richards, Wilbert M., Chicago, Ill. Roller-curtain guiding and locking device. 1,473,517; Nov. 6.
Richardson, Holden C., and H. F. Vaché, Philadelphia, Pa. Closure. 1,473,408; Nov. 6.
Riegelman, Frank, Rumson, assignor to B. W. Reid, Highlands, N. J. Timer. 1,472,939; Nov. 6.
Riker, Monro, Chester, N. J. Means for halving eggs and slicing fruits. 1,473,383; Nov. 6.
Ring, John, et al. (See Jacobs, James J., assignor.)
Ringe, John C. (See Eames, G. M., and Ringe.)
Ringless Piston Company. (See Tiemer, Paul G., assignor.)
Ringler, William A., Philadelphia, Pa. Index tab. 1,472,887; Nov. 6.
Ripper, Harry T., Castle Hedingham, England. Door. 1,473,320; Nov. 6.
Robbins, Hallet R., Fierro, N. Mex. Apparatus for the treatment of liquids and liquid pulps. 1,473,160; Nov. 6.
Roberts, Henry P., Boston, Mass. Bottle stopper. 1,473,048; Nov. 6.
Roberts, Kenneth A. (See Humphries, Frank, assignor.)
Roberts, L. R., Typewriter Company. (See Roberts, Lyman R., assignor.)
Roberts, Luther B., Sweetwater, Tex. Foot propelling device for boats. 1,473,049; Nov. 6.
Roberts, Lyman R., Rutherford, N. J., assignor to L. R. Roberts Typewriter Company, Stamford, Conn. Typewriter. 1,473,254; Nov. 6.
Rockford Milling Machine Company. (See Sundstrand, Gustav D., assignor.)
Roe, Harold. (See Hollenbeck, R. B., and Roe.)
Roeglin, Henry R., assignor of one-half to J. Molnar, Milwaukee, Wis. Builder's tool. 1,472,992; Nov. 6.
Roessler & Hasslacher Chemical Company, The. (See Albert, August, assignor.)
Rogers, Alonzo L., Walkerton, Ind. Stepladder. 1,473,443; Nov. 6.
Rogers, Homer S., assignor to J. R. Ball, Milwaukee, Wis. Pneumatic pump. 1,473,384; Nov. 6.
Rogers, Joseph C., assignor of one-sixth to G. S. Abernarty and one-sixth to Mrs. J. W. Jones, Prospect Station, Tenn. Wagon brake. 1,473,518; Nov. 6.
Rogers, Verna B., Canutillo, Tex. Clothes container. 1,473,161; Nov. 6.
Rolli, John, West Allis, Wis. Cultivator. 1,473,519; Nov. 6.
Root, Chapman J., Terre Haute, Ind. Bottle. Des. 63,238; Nov. 6.
Root, Chapman J., Terre Haute, Ind. Bottle. Des. 63,239; Nov. 6.
Root, Chapman J., Terre Haute, Ind. Bottle. Des. 63,240; Nov. 6.
Rosak, Karl, Berlin, Germany, assignor to Schnellwerkzeug Gesellschaft mit beschränkter Haftung (Briesen). Grinding machine. 1,473,520; Nov. 6.
Rose, Charles B., East Moline, assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Tractor attachment. 1,472,888; Nov. 6.
Ross Carrier Company, The. (See Ross, Harry B., assignor.)
Ross, Harry B., assignor to The Ross Carrier Company, Benton Harbor, Mich. Differential steering gear. 1,472,940; Nov. 6.
Rossman, Allen M., assignor to Sargent & Lundy, Incorporated, Chicago, Ill. Bus structure. 1,473,385; Nov. 6.
Roth, Julius J., sr., New York, N. Y. Motor vehicle. 1,473,444; Nov. 6.
Rowan, Harry B., North Attleboro, Mass., assignor to Whiting & Davis Company. Mesh bag. Des. 63,241; Nov. 6.
Rowe, Alvin V. (See Knutson, Alfred W., assignor.)
Rubin, Hyman B., New York, N. Y. Multiple-mitering attachment. 1,473,521; Nov. 6.
Ruehman, Henry, Los Angeles, Calif. High-compression two-cycle engine. 1,473,124; Nov. 6.
Ruggiero, Anthony C., Brooklyn, N. Y. Bottle cap. 1,472,889; Nov. 6.
Rumfelt, Michael R., South Lima, N. Y. Nut and bolt lock. 1,473,321; Nov. 6.
Russell, Nelson J., Chicago, Ill. Fuel-saving device for furnaces. 1,473,050; Nov. 6.
Ruth, Earl A., Washington, D. C. Automatic stop mechanism for phonographs. 1,473,125; Nov. 6.
Sabbag, Littallah G., East Boston, Mass., and R. Anton, Dover, N. H.; said Sabbag assignor to said Anton. Brake and gas control for self-propelled vehicles. 1,472,993; Nov. 6.
Safety Car Heating & Lighting Company, The. (See Hulse, George E., assignor.)
Sage, Bright, East Orange, N. J. Quick-acting closure for receptacles. 1,473,162; Nov. 6.
Salters, William, et al. (See Jacobs, John J., assignor.)
San Diego Consolidated Gas and Electric Company. (See Watson, William V., assignor.)
Santarsiero, Anthony V., New York, N. Y. Gas heater. 1,473,322; Nov. 6.
Sargent & Lundy, Incorporated. (See Rossman, Allen M., assignor.)
Sas, Elmer, New York, N. Y. Drink mixer. 1,472,814; Nov. 6.
Sas, Elmer, New York, N. Y. Drink mixer. 1,473,163; Nov. 6.
Saveno, Alphonso. (See Libertini, F., and Saveno.)
Sawyer, Frank M., Los Angeles, Calif. Making artificial building blocks. 1,473,200; Nov. 6.
Sawyer, Fred L., assignor to Sawyer Specialty Scales Company, Jacksonville, Fla., a Corporation of Florida. Scale. 1,473,126; Nov. 6.
Sawyer Specialty Scales Company. (See Sawyer, Fred L., assignor.)
Schenck, Charles, and L. Fine, assignors to Bethlehem Steel Company, Bethlehem, Pa. Manufacture of metal wheels. 1,473,164; Nov. 6.
Schimek, Joseph F., Holden, assignor to Cashiko Machine Company, Worcester, Mass. Feeding and weighing device for carding machines. 1,472,815; Nov. 6.
Schimmel, Fridolin, Faribault, Minn. Extensible-leaf table. 1,473,323; Nov. 6.

Schmitt, Charles A., assignor of one-fourth to J. E. Eastman, jr., Anaconda, Mont. Lock for sliding doors. 1,473,324; Nov. 6.
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Adjustable-action fuse for projectiles. 1,472,941; Nov. 6.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Clutch-closing mechanism. 1,472,854; Nov. 6.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Automatic tensioning apparatus for closing the parts of a clutch. 1,472,855; Nov. 6.
Schnellwerkzeug Gesellschaft mit beschränkter Haftung (Briesen). (See Rosak, Karl, assignor.)
Schoel, August. (See Wallace, David A., assignor.)
Schory, Ralph M. (See Harsh, Clarence E., assignor.)
Schrader's, A., Son, Incorporated. (See Bowden, Junius A., assignor.)
Scrafford, Irving H. (See Vallée, A. J., and Scrafford.)
Schumacher, Elmer L., assignor to American Optical Company, Southbridge, Mass. Case. 1,473,359; Nov. 6.
Schumacher, John, Los Angeles, Calif. Plaster-board lath. 1,473,446; Nov. 6.
Schwarzmann, Wolfgang E., Longmeadow, assignor to American Bosch Magneto Corporation, Springfield, Mass. Magneto. 1,473,253; Nov. 6.
Schwer, Joseph F., Pittsburgh, Pa. Sash fastener. 1,473,325; Nov. 6.
Scneder, Fred V. (See Byrne, J. L., and Scneder.)
Scott, Alonzo B., Fairmont, W. Va. Golf putting box. 1,473,051; Nov. 6.
Scott-Ullman Company. (See Ullman, Albert, assignor.)
Scott, Walter R., Philadelphia, Pa. Means for expanding piston rings. 1,473,446; Nov. 6.
Scott, William M., Tredyffrin Township, Chester County, Pa. Switching apparatus. 1,473,387; Nov. 6.
Seaholm, John P., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Vehicle wheel. 1,472,856; Nov. 6.
Sears, Roebuck and Co. (See Hoffman, Rudolph, assignor.)
Seguin, Augustin, Paris, France. Calculating machine. 1,472,942; Nov. 6.
Self-Mounting Carrier Company. (See Lawrence, Frederick K., assignor.)
Sem, Mathias O., assignor to Det Norske Aktieselskab for Elektrokemisk Industri, Christiania, Norway. Decomposing sulphides. 1,473,447; Nov. 6.
Shaeffer, Arling, Chicago, Ill. Violin finger-board. 1,472,943; Nov. 6.
Shaw, James W., Chicago, Ill. Mixing attachment for engine fuel intakes. 1,473,052; Nov. 6.
Shaw, Thomas, Matangi, Waikato, New Zealand. Belt fastener. 1,472,890; Nov. 6.
Shay, James, Middletown, Ohio. Gate. 1,472,994; Nov. 6.
Shepherd, Solomon W., Orlando, Fla. Amusement apparatus. 1,473,522; Nov. 6.
Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle frame. Des. 63,242; Nov. 6.
Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle frame. Des. 63,243; Nov. 6.
Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle frame. Des. 63,244; Nov. 6.
Short, Charles R., assignor to General Motors Company, Detroit, Mich. Piston. 1,473,127; Nov. 6.
Shuster, Elmore F. (See Thompson, Lawrence, assignor.)
Shuster, Elmore F., New Haven, Conn. Wire-straightening arbor. 1,473,256; Nov. 6.
Simmons, Paul R., Huntington, assignor to Peerless Paper Products Company, Indianapolis, Ind. Apparatus for and method of manufacturing paper dishes. 1,473,387; Nov. 6.
Simone, James, Southington, Conn. Spoon or fork holder. 1,472,995; Nov. 6.
Simonson, Elmer L., Homestead, Pa. Gear control. 1,473,128; Nov. 6.
Singer Manufacturing Company. (See Eames, G. M., and Ringe, assignors.)
Singer Manufacturing Company, The. (See Finch, John S., assignor.)
Siple, Charles, assignor to The Goss Printing Press Company, Chicago, Ill. Matrix-rolling machine. 1,473,053; Nov. 6.
Sinko, John A. (See Lippert, A. C., and Sinko.)
Skogmark, John. (See Chase, M. F., Pierce, and Skogmark.)
Slawienski, Mike, Camden, N. J. Handle attachment for motor cycles. 1,473,326; Nov. 6.
Slosa, Aaron M. (See Pedersen, Johannes T., assignor.)
Smith, Frank H., and A. K. Nowak, Cleveland, Ohio. Press. 1,473,388; Nov. 6.
Smith, Frank H., and A. K. Nowak, Canton, Ohio. Briquetting press. 1,473,389; Nov. 6.
Smith, Herman E., Brooklyn, N. Y., and A. E. Twist, Clifton, N. J., assignors to Raymond Concrete Pile Company, New York, N. Y. Pile driver. 1,473,054; Nov. 6.
Smith, J. C. (See O'Nan, Charles B., assignor.)
Smith, Nelson H., Spring Valley, Ill. Collapsible stove. 1,473,523; Nov. 6.
Smith, William H., East Cleveland, Ohio. Faucet. 1,472,816; Nov. 6.
Snell, Charles M., Danbury, Conn. Automatic traffic signal. 1,473,448; Nov. 6.
Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Explosive composition. 1,473,257; Nov. 6.
Solvay Process Company. (See Sundstrom, C., and Terziev, assignors.)
Spadone Machine Company. (See Wegner, Julius, assignor.)
Spalding, A. G., & Bros. (See Reach, William F., assignor.)
Sparks, William, Jackson, Mich., assignor, by mesne assignments, to Stewart-Warner Speedometer Corporation, Richmond, Va. Fuel-feeding device. 1,472,944; Nov. 6.
Sperr, Frederick W., jr., assignor to The Koppers Company, Pittsburgh, Pa. Antifreeze composition. 1,473,327; Nov. 6.
Splitdorf Electrical Company. (See Tomlinson, Edward J., assignor.)
Stahl, Charles E., Winthrop Harbor, Ill., assignor, by mesne assignments, to F. C. Austin Machinery Company. Meter pump. 1,472,996; Nov. 6.
Standard Development Company. (See Howard, Frank A., assignor.)
Standard Reamer & Tool Company. (See Gyllsdorff, Forsten A., assignor.)
Stansbury, William J., Philadelphia, Pa. Liquid-applying can. 1,472,817; Nov. 6.
Statz, Robert J. (See Dodge, A. Y., and Statz.)
Stearns, Ralph O., Winthrop, N. Y., and D. E. McGraw, Cresskill, N. J. Condenser for steam-driven machinery. 1,473,449; Nov. 6.
Steedsman, Victor D., and E. H. Intlehouse, De Lamere, N. Dak. Elevating bucket. 1,473,258; Nov. 6.
Steele, Thomas, assignor to The Columbus Dental Manufacturing Company, Columbus, Ohio. Interchangeable facing and backing. 1,473,055; Nov. 6.
Steen, Axel W., Los Angeles, Calif. Camp grate. 1,473,056; Nov. 6.
Steigmeyer, Frederick, Westhaven, Calif. Seed-conditioning apparatus. 1,473,165; Nov. 6.
Sterling Clock Co. (See Stern, Lewis J., assignor.)
Stern, Lewis J., New York, N. Y., assignor to Sterling Clock Co., Inc. Time-control arrangement. 1,473,057; Nov. 6.
Stevenson, Harry W., Port Chester, N. Y. Handle for batteries. 1,472,997; Nov. 6.
Steward, Charles M., Plano, Ill. Removable tractor spur or lug. 1,473,058; Nov. 6.
Stewart-Warner Speedometer Corporation. (See Sparks, William, assignor.)
Stimpson, Edwin B., Company. (See Rau, Henry V., assignor.)
Stockstrom, Arthur, assignor to American Stove Company, St. Louis, Mo. Apparatus for making imitation-tile panels. 1,473,524; Nov. 6.
Stough, Turney H., assignor to Jeannette Toy & Novelty Co., Jeannette, Pa. Ice-cream freezer. 1,473,588; Nov. 6.
Strachota, Clarence A., Minneapolis, Minn., assignor to Liptak Fire-Brick Arch Company. Furnace arch. 1,472,945; Nov. 6.
Stranders, Julien, London, England, assignor to H. B. Kruger, New York, N. Y. Display device. 1,473,390; Nov. 6.
Streun, John A., assignor to Hardwicke-Etter Company, Sherman, Tex. Cleaner attachment for cotton-gin feeders. 1,473,059; Nov. 6.
Sturgis, William B. (See Andrews, E. F., and Sturgis.)
Stryll, Harry H., Southbridge, Mass. Lens. 1,473,360; Nov. 6.
Submarine Signal Company. (See Fessenden, Reginald A., assignor.)
Sullivan Machinery Company. (See Clapp, Lewis J., assignor.)
Sullivan Machinery Company. (See Holdsworth, Fred D., assignor.)
Sundstrand, Gustaf D., assignor to Rockford Milling Machine Company, Rockford, Ill. Gearing. 1,473,166; Nov. 6.
Sundstrom, Carl, and G. N. Terziev, Syracuse, assignors to The Solvay Process Company, Solvay, N. Y. Forming sodium compounds. 1,473,259; Nov. 6.
Swain, Joseph G., assignor to The Firestone Steel Products Company, Akron, Ohio. Demountable-rim construction. 1,473,525; Nov. 6.
Swain, Mack M. (See Post, Harry M. and L. O., assignors.)
Swensen, Abraham, deceased; M. Swensen, administratrix, Minneapolis, Minn. Record-cleaning device. 1,472,857; Nov. 6.
Swensen, Mary, administratrix. (See Swensen, Abraham.)
Swenson, Harold E., Vallejo, Calif. Envelope opener. 1,473,526; Nov. 6.
Sykes, W. R., Interlocking Signal Company Limited. (See Tiddeman, Edmund S., assignor.)
Syndicat "Electro-Staal." (See Vermaes, Stefanus J., assignor.)
Tarbox, John P., Garden City, N. Y. Spark-plug cleaner. 1,472,858; Nov. 6.
Tate, Samuel G., assignor to Union Special Machine Company, Chicago, Ill. Filled-bag-sewing machine. 1,472,998; Nov. 6.

Taylor, Augustus. (See Elliott, Harold F., assignor.)
Taylor, Edward N., assignor to W. A. Zelnicker, St. Louis, Mo. Electroplating. 1,473,060; Nov. 6.
Taylor, Frank and H. G., Radcliffe, England. Automatic air-inlet valve for low-pressure steam-heating apparatus and the like. 1,472,946; Nov. 6.
Taylor, Harvey B., Philadelphia, Pa. Turbine-gate-operating mechanism. 1,473,391; Nov. 6.
Taylor, Hiram G. (See Taylor, Frank and H. G.)
Taylor, Rex H., Rochester, N. Y. Inflatable ball. 1,473,260; Nov. 6.
Tebbetts, L. B., & Company. (See Tebbetts, Lewis B., assignor.)
Tebbetts, Lewis B., assignor to L. B. Tebbetts & Company, Incorporated, St. Louis, Mo. Key-retaining device. 1,473,361; Nov. 6.
Telleson, Alexander, and W. W. Warnock, Castor, Alberta, Canada. Auxiliary spring device for vehicles. 1,473,589; Nov. 6.
Terziev, George N. (See Sundstrom C., and Terziev.)
Tharp, Lee, Burlington, Iowa. Valved piston. 1,472,947; Nov. 6.
Thayer, Allan A. (See Kettle, A. W., and Thayer.)
Thimgren, Edward, Popotla, Mexico. Combined cane and telescope. 1,473,527; Nov. 6.
Thomas, Horace T., Lansing, Mich. Piston. 1,473,061; Nov. 6.
Thompson, Lawrence, Syracuse, N. Y., assignor to E. F. Shuster, New Haven, Conn. Wire-straightening machine. 1,473,261; Nov. 6.
Thornton, Ray, New Bedford, Mass. Warp roll. 1,473,450; Nov. 6.
Tiddeman, Edmund S., Hornchurch, assignor to W. R. Sykes Interlocking Signal Company Limited, Clapham, London, England. Railway signaling apparatus. 1,472,891; Nov. 6.
Tiddeman, Edmund S., Hornchurch, assignor to W. R. Sykes Interlocking Signal Company Limited, Clapham, London, England. Railway signaling apparatus and apparatus for stopping trains independently of drivers. 1,472,892; Nov. 6.
Tilston, Basil H., Latchford Without, near Warrington, and T. Melbourne, Warrington, England. Apparatus for treating hides and the like. 1,472,999; Nov. 6.
Tilton, Roe E., Columbus, Ohio. Connecter. 1,473,362; Nov. 6.
Timken Roller Bearing Company, The. (See Lothrop, Marcus T., assignor.)
Tin Decorating Company of Baltimore, The. (See Connor, Martha H., assignor.)
Tinker, Charles L., New Philadelphia, Ohio. Combined tampon packer and syringe. 1,473,062; Nov. 6.
Tismer, Paul G., New York, N. Y., assignor to Ringless Piston Company. Piston construction. 1,472,893; Nov. 6.
Tomlinson, Edward J., assignor to Splitdorf Electrical Company, Newark, N. J. Phonograph. 1,473,363; Nov. 6.
Tootle, Milton 3d, St. Joseph, Mo. Golf club. 1,473,528; Nov. 6.
Treat, Clifford E., Los Angeles, Calif. Switch. 1,473,262; Nov. 6.
Treiman, Isaac A., Seattle, Wash. Safety attachment for locks. 1,472,948; Nov. 6.
Trojan Powder Company. (See Snelling, Walter O., assignor.)
Trub, John E. A. (See Borel, Charles, assignor.)
Trumbull Electric Manufacturing Company. (See Getchell, Benjamin E., assignor.)
Tuchfarber, Frank, Cincinnati, Ohio. Acoustic stylus mounting. 1,473,063; Nov. 6.
Tucker Brothers Manufacturing Company. (See Tucker, Jesse D., assignor.)
Tucker, Elmer A., Bremerton, Wash. Earth drag. 1,472,949; Nov. 6.
Tucker, Jesse D., assignor to Tucker Brothers Manufacturing Company, Sacramento, Calif. Spoke-tightening shim drift. 1,473,409; Nov. 6.
Tuttle, Walter L., Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass. Construction for beams and the like. 1,473,410; Nov. 6.
Twist, Albert E. (See Smith, H. R., and Twist.)
Ullman, Albert, assignor to Scott-Ullman Company, Cleveland, Ohio. Arm for lighting fixtures. Des. 63,245; Nov. 6.
Union Special Machine Company. (See Tate, Samuel G., assignor.)
United Metal Box Co. (See Hammer, Samuel, assignor.)
United Shoe Machinery Corporation. (See Ashton, Orrell, assignor.)
United Shoe Machinery Corporation. (See Knowlton, Cutler D., assignor.)
Urban, John, Newark, Ohio. Shaving mirror. 1,473,263; Nov. 6.
Vaché, Henry F. (See Richardson, H. C., and Vaché.)
Vallee, Armand J., Oneonta, and I. H. Scrafford, Altamont, N. Y. Lantern bracket. 1,472,894; Nov. 6.
Van Heusen, John M. (See Kidwell, Cleo H., assignor.)
Vance, Walter N., Chicago Heights, assignor to Durand Steel Locker Company, Chicago, Ill. Metal shelving. 1,473,064; Nov. 6.
Vander Bogart, Frank, et al. (See Whitney, William A., assignor.)
Vasselli, Anthony, Newark, N. J. Time-announcing phonograph. 1,472,859; Nov. 6.
Vaughan, Henry M., Newton, Iowa. Means for tiltably supporting tubs. 1,473,264; Nov. 6.
Venzlaff, Richard, Berlin, Germany. Hand motor plow. 1,473,129; Nov. 6.
Vermaes, Stefanus J., Delft, assignor to Syndicaat "Electro-Staal." The Hague, Netherlands. Manufacture of iron from iron ores. 1,472,860; Nov. 6.
Vickers Limited. (See Perham, Arthur L., assignor.)
Viscoloid Company. (See Loomis, Evarts G., assignor.)
Voelker, George W., Woonsocket, R. I. Tension truss for presser beds. 1,473,364; Nov. 6.
Vogel, Joseph P., assignor to Heyl & Patterson, Inc., Pittsburgh, Pa. Picking table. 1,473,365; Nov. 6.
Von Recklinghausen, Max. (See Henri, V., Helbronner, and von Recklinghausen.)
Voss, William H., Davenport, Iowa. Washing machine. 1,473,130; Nov. 6.
Voss, William H., Davenport, Iowa. Door. 1,473,131; Nov. 6.
Vowles, Ernest H., Fitchburg, Mass., assignor to Fitchburg Bobbin Cleaning Machine Company. Bobbin-cleaning machine. 1,473,265; Nov. 6.
Vulcan Foundry Limited, The. (See Richards, Rupert P., assignor.)
Wacker, Frederick G., Chicago, Ill. Bung structure for metal barrels and the like. 1,473,411; Nov. 6.
Wadsworth Electric Manufacturing Company, The. (See Wadsworth, George B., assignor.)
Wadsworth, George B., assignor to The Wadsworth Electric Manufacturing Company, Covington, Ky. Safety box for electric installation. Re15,718; Nov. 6.
Wahl Company, The. (See Wahl, John C., assignor.)
Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Magazine pencil. 1,473,412; Nov. 6.
Waite, Frank H., Long Island City, N. Y. Baffle brick. 1,473,132; Nov. 6.
Walker, Neil, Madison, Ind. Hose clamp. 1,473,133; Nov. 6.
Walkup, Samuel T., New York, N. Y. Car door. 1,473,328; Nov. 6.
Wallace, David A., assignor of two-thirds to A. Schoel, Waterloo, Iowa. Meat press. 1,473,590; Nov. 6.
Waller, George J. (See Woodhull, S. T., and Waller.)
Waller, Lee R., Westmount, Quebec, Canada, assignor to Western Electric Company, Incorporated, New York, N. Y. Brush-tripping device. 1,472,818; Nov. 6.
Walrow, Hans T., New York, N. Y. Folding cross. 1,473,530; Nov. 6.
Walters, Charles T., St. Paul, Minn. Rod packing. 1,473,451; Nov. 6.
Walther, George, Dayton, Ohio. Brake drum. 1,473,366; Nov. 6.
Wanderer-Werke vorm. Winklhofer & Jaenicke Aktiengesellschaft. (See Buschmann, Theodor E. assignor.)
Ward Leonard Electric Company. (See Kebler, Leonard, assignor.)
Warner, Irving. (See Appelgate, Herlin M., assignor.)
Warnock, Wesley W. (See Telleson, A., and Warnock.)
Wason, Robert M., assignor to American Optical Company, Southbridge, Mass. Lens-mounting machine. 1,473,367; Nov. 6.
Watson, William V., assignor of one-half to San Diego Consolidated Gas and Electric Company, San Diego, Calif. Plastic composition and making the same. 1,472,951; Nov. 6.
Watts, John R., Concordia, Kans. Road construction. 1,473,134; Nov. 6.
Weatherwax, Wayne L., Oshkosh, Wis. Toothbrush. 1,473,090; Nov. 6.
Webb, Archie R., Pensacola, Fla. Food and water trough for poultry. 1,473,266; Nov. 6.
Webster, Lewis E., assignor to The Wyoming Shovel Works, Wyoming, Pa. Reenforcement for shovel handles. 1,473,267; Nov. 6.
Wegner, Gustave A., Rochester, N. Y. Temperature-controlling means for ice-cream freezers. 1,473,065; Nov. 6.
Wegner, Julius, assignor, by mesne assignments, to Spadone Machine Company, Inc., New York, N. Y. Cutting machine. 1,472,895; Nov. 6.
Welbezahn, Carl T., St. Peter, Minn., assignor to Fort Dearborn Watch Clock Company, Chicago, Ill. Book-display stand. Des. 63,246; Nov. 6.
Welcker, Paul H., assignor to Brown & Bigelow, St. Paul, Minn. System file. 1,473,452; Nov. 6.
Welle, Albert F., assignor to American Bakery Company, St. Louis, Mo. Sheet of wrapping paper. Des. 63,247; Nov. 6.
Wells, Merritt R., Cleveland, Ohio. Fan for automobile radiators or the like. 1,473,066; Nov. 6.
Wells, Robert L., Chicago, Ill. Pipe thimble. 1,472,819; Nov. 6.
Welton, William H. H., Dallas, Tex. Metal railway tie and rail fastener. 1,473,067; Nov. 6.
Wenholz, William H., Hutchinson, Kans. Truck and wagon dump. 1,473,531; Nov. 6.
Western Electric Company. (See Kishpaugh, Arthur W., assignor.)

Western Electric Company. (See Murphy, Paul B., assignor.)
Western Electric Company. (See Waller, Lee R., assignor.)
Western Union Telegraph Company The. (See Leedom, Randolph, assignor.)
Westinghouse Electric & Manufacturing Company. (See Kindl, Carl H., assignor.)
Weyandt, Carl S., assignor to Central Electric Tool Company, Pittsburgh, Pa. Electric drive mechanism. 1,473,167; Nov. 6.
Weyhing Bros. Manufacturing Co. (See Weyhing, Robert L., assignor.)
Weyhing, Robert L., assignor to Weyhing Bros. Manufacturing Co., Detroit, Mich. Badge or emblem. Des. 63,248; Nov. 6.
Wheeling Steel Corporation. (See Peacock, Samuel, assignor.)
White, Benjamin B., assignor to Armstrong & White, Pittsburgh, Pa. Lock for switch safety boxes. 1,473,001; Nov. 6.
White, John W., Buffalo, N. Y. Disk wheel. 1,473,368; Nov. 6.
White, Percy H., assignor to R. Tyson White's Sons, Brooklyn, N. Y. Display device. 1,472,820; Nov. 6.
White, William E., Chicago, Ill. Holder for concrete inserts. 1,473,268; Nov. 6.
White's, R. Tyson, Sons, Brooklyn, N. Y. (See White, Percy H., assignor.)
Whiting & Davis Company. (See Rowan, Harry B., assignor.)
Whitney Metal Tool Company. (See Jensen, John, assignor.)
Whitney, William A., assignor to F. Vander Bogart and H. A. Merlien, Rockford, Ill. Punch. Re15,719; Nov. 6.
Whittam, Benjamin B., Elizabeth, assignor to Babcock & Wilcox Company, Bayonne, N. J. Gauge cock. 1,473,068; Nov. 6.
Will, John W., San Jose, Calif. Portable pressure oiler. 1,473,269; Nov. 6.
Williams, Charles R., Omaha, Nebr. Envelope. 1,473,329; Nov. 6.
Williams, Francis H. (See Benson, Elof, assignor.)
Williams, Miriam S. F., and J. K. E. Diffenderffer, Baltimore, Md.; said Diffenderffer assignor to said Williams. Parking device for automobiles. 1,473,369; Nov. 6.
Wilson, John B. (See Lamb, John, assignor.)
Wilson-Jones Loose Leaf Company. (See Newman, George W., assignor.)
Wilson, Van L., Boise, Idaho. Cushion tire. 1,473,270; Nov. 6.
Wingquist, Sven G., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Cage for roller bearings. 1,473,168; Nov. 6.
Winters, William, Chicago, Ill. Roach trap. 1,473,069; Nov. 6.
Wisconsin Iron & Wire Works. (See Norris, G. H., and Ernest, assignors.)
Womack, Daniel H., Montgomery, Tex. Animal dip and insect trap. 1,473,532; Nov. 6.
Wood, George B., W. C. Bird, and E. B. Packard, Rockland, Me. Gate. 1,473,135; Nov. 6.
Woodhull, Samuel T., Medford, and G. J. Waller, Somerville, assignors to American Radio & Research Corporation, Medford, Mass. Gap. 1,473,070; Nov. 6.
Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. 1,473,136; Nov. 6.
Wruck, Henry F. (See Donnell, A. I., and Wruck.)
Wunderlich, Albert W., Arlington, Mass. Liquid container. 1,473,453; Nov. 6.
Wyatt, De Witt H., assignor to B. Driskell, olumbus, Ohio. Tub bench. 1,473,271; Nov. 6.
Wyoming Shovel Works, The. (See Webster, Lewis E., assignor.)
Yokel, Frank, Hartford, Conn., assignor to Dallas Brass & Copper Co., Chicago, Ill. Lighting fixture. Des. 63,249; Nov. 6.
Young, Carl L. (See Faubert, V. T., Anekee, Young.)
Young, James B., Cumberland, Ind. Automobile bed. 1,473,413; Nov. 6.
Zelko Frank, Joliet, Ill. Wall slab. 1,473,533; Nov. 6.
Zelnicker, Walter A. (See Taylor, Edward N., assignor.)
Zepka, Ludwig R., Cleveland, Ohio. Theft signal. 1,473,272; Nov. 6.
Zierten, Nicholas, Albany, Calif. Rivet. 1,473,137; Nov. 6.
Zink, Fred W., assignor to Kales Stamping Company, Detroit, Mich. Mirror support. 1,473,273; Nov. 6.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF NOVEMBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Accelerator pedal. J. R. Mickelsen. 1,473,156; Nov. 6.
Account and like books. Protector covering for loose-leaf. C. H. Bull. 1,472,789; Nov. 6.
Acid concentrator. J. Patten. 1,473,122; Nov. 6.
Acoustic stylus mounting. F. Tuchfarber. 1,473,063; Nov. 6.
Adding machine. T. E. Cherry. 1,473,174; Nov. 6.
Air compressor. L. Poccia. 1,473,314; Nov. 6.
Air device. Auxiliary. V. C. Randall and J. E. McGinley. 1,473,317; Nov. 6.
Air jack. J. S. Gilday. 1,473,034; Nov. 6.
Alloy, Acid-resisting. A. W. Clement. 1,473,208; Nov. 6.
Ammonium picramate, Manufacturing. W. M. Dehn. 1,472,791; Nov. 6.
Amusement apparatus. S. W. Shepherd. 1,473,522; Nov. 6.
Animal dip and insect trap. D. H. Womack. 1,473,532; Nov. 6.
Animal-trap attachment. H. M. Marshall. 1,473,242; Nov. 6.
Antifreeze composition. F. W. Sperr, jr. 1,473,327; Nov. 6.
Antiglare and weather shield, Combined. H. Clark. 1,473,599; Nov. 6.
Antiskid chains, Connector link for. J. P. Mentzer. 1,472,805; Nov. 6.
Arsenic compounds, Producing new organic. A. Albert. 1,472,778; Nov. 6.
Auto door sign. A. W. Lohn, jr. 1,473,583; Nov. 6.
Automobile foot rail. R. I. Graf. 1,473,091; Nov. 6.
Automobile identification device. M. Iafrate. 1,473,556; Nov. 6.
Automobile identifying means. B. W. Jones. 1,473,561; Nov. 6.
Automobile license plate. T. Hunter. 1,473,479; Nov. 6.
Automobile lights, Auxiliary switch for. O. L. Davis. 1,473,212; Nov. 6.
Automobile lock. C. Cynamon. 1,473,469; Nov. 6.
Automobile machines, Bearing line for electric aerial conductors to. H. S. Cassel. 1,473,206; Nov. 6.
Automobile parking device. M. S. F. Williams and J. K. E. Diffenderffer. 1,473,369; Nov. 6.
Automobile radiators, Fan for. M. R. Wells. 1,473,066; Nov. 6.
Automobile tool. M. McIntyre. 1,473,114; Nov. 6.
Automobile wheel. W. H. Kutina. 1,473,435; Nov. 6.
Automobiles, Awning for. A. M. Lane. 1,472,919; Nov. 6.
Automobiles, Device to prevent stealing of. C. Jackson and W. L. Huxter. 1,472,843; Nov. 6.
Automobiles, Hat carrier for. L. P. Crose. 1,473,338; Nov. 6.
Automobiles, Ignition device for. H. R. Patterson. 1,473,585; Nov. 6.
Automobiles, Starting mechanism for. C. H. Kindl. 1,472,871–2; Nov. 6.
Automobiles, Windshield light shade for. H. C. Elliott. 1,472,904; Nov. 6.
Axle die. R. G. Housdorfer. 1,473,102; Nov. 6.
Badge or emblem. R. L. Weyhing. Des. 63,248; Nov. 6.
Bait, Artificial. G. H. Doering. 1,473,420; Nov. 6.
Ball: *See*—
Inflatable ball.
Ball, float, and the like, Playing. M. M. Dessau. 1,472,865; Nov. 6.
Band, Adjustable. K. E. Englund. 1,472,966; Nov. 6.
Barber chair. E. Berninghaus. 1,473,541; Nov. 6.
Barrels, and the like, Bung structure for metal. F. G. Wacker. 1,473,411; Nov. 6.
Baseball game device. C. C. Martin. 1,473,308; Nov. 6.
Bath receptacle, Sanitary. E. N. Lichtenstein. 1,472,877; Nov. 6.
Batteries, Cell connecter for electric. L. Lyndon. 1,472,923; Nov. 6.
Batteries, Handle for. H. W. Stevenson. 1,472,997; Nov. 6.
Battery-plate-treating apparatus. J. M. Lea. 1,473,108; Nov. 6.
Beams and the like, Construction for. W. I. Tuttle. 1,473,410; Nov. 6.
Bearing. A. Bartlemay. 1,473,138; Nov. 6.
Bearing cups and the like, Manufacture of roller. M. T. Lothrop. 1,472,922; Nov. 6.
Bearing-race remover. W. A. Bates. 1,473,075; Nov. 6.
Bearing, Cage for roller. S. G. Wingquist. 1,473,168; Nov. 6.
Bearings, Dust guard for. T. J. Litle. 1,473,110; Nov. 6.
Bed and table, Combination. C. Heller. 1,473,370; Nov. 6.
Bed, Automobile. J. B. Young. 1,473,413; Nov. 6.
Beds and the like, Suspension support for. M. O'Flanagan. 1,473,311; Nov. 6.
Bedspread. A. W. Baylis. Des. 63,212–16; Nov. 6.
Beet topper. J. L. Byrne and F. V. Scneder. 1,472,959; Nov. 6.
Belt-buckle frame. E. M. Davis. Des. 63,220–2; Nov. 6.
Belt-buckle frame. L. W. Shields. Des. 63,242–4; Nov. 6.
Belt fastener. T. Shaw. 1,472,890; Nov. 6.
Belts, Connecting device for. G. E. Hulse. 1,472,910; Nov. 6.
Bench: *See*—
Tub bench. Washbench.
Bench clamp. O. E Juvinall. 1,472,982; Nov. 6.
Bicycle transmission. O. Cooperman. 1,473,017; Nov. 6.
Binder ring, Temporary-. N. D. Nachtrieb. 1,473,354; Nov. 6.
Binders, Shocking attachment for. A. Christopherson. 1,473,012; Nov. 6.
Blasting charges for ignition, Preparing. L. Lisse. 1,473,596; Nov. 6.
Block: *See*—
Box-forming block. Fuse-mounting block.
Board: *See*—
Violin finger board.
Boats, Foot propelling device for. L. B. Roberts. 1,473,049; Nov. 6.
Boats, Steering arrangement for motor-driven. K. Lenck. 1,473,484; Nov. 6.
Bobbin-cleaning machine. E. H. Vowles. 1,473,265; Nov. 6.
Boiler tubes, Pneumatic device for cleaning. C. L. Corne. 1,473,467; Nov. 6.
Boilers, Regulating device for steam. G. F. Moors and E. E. Martin. 1,473,120; Nov. 6.
Bolt and nut retainer, Combination. J. Coyne. 1,473,177; Nov. 6.
Bomb thrower. W. Makowiecki. 1,473,490; Nov. 6.
Books, Quick-release means for loose-leaf. G. W. Newman. 1,473,247; Nov. 6.
Bottle. C. J. Root. Des. 63,238–40; Nov. 6.
Bottle cap. A. C. Ruggiero. 1,472,889; Nov. 6.
Bottle closure. C. L. Bernardo. 1,473,540; Nov. 6.
Bottle-closure-applying device. S. L. Goldman. 1,473,342; Nov. 6.
Bottle stopper. H. P. Roberts. 1,473,048; Nov. 6.
Box: *See*—
Display box. Golf putting box.
Fire box. Tool box.
Box. J. G. Huye. 1,473,432; Nov. 6.
Box-forming block. W. E. Middleton. 1,473,241; Nov. 6.
Box, packing case, and the like. J. I. Nesmith. 1,473,196; Nov. 6.
Boxes of the slide and shell type, Machine for use in fitting together. W. E. Molins. 1,473,496; Nov. 6.
Brace: *See*—
Hand brace.
Bracket: *See*—
Lantern bracket. Shade bracket.
Brake: *See*—
Wagon brake.
Brake and clutch mechanism. A. C. Mason. 1,473,115; Nov. 6.
Brake-beam fulcrum, Reversible. E. A. Mayhew. 1,473,116; Nov. 6.
Brake drum. G. Walther. 1,473,366; Nov. 6.
Brake mechanism. M. C. Blest. 1,473,006; Nov. 6.
Brake rigging. O. E. Barthel. 1,473,456; Nov. 6.
Brick, Baffle. F. H. Waite. 1,473,132; Nov. 6.
Brick, Interlocking building. J. Hundley. 1,472,911; Nov. 6.
Brick-pallet-handling apparatus. G. E. Luce. 1,473,305; Nov. 6.
Brick-paver's bridge. O. W. Gatchell. 1,473,223; Nov. 6.
Briquetting press. F. H. Smith and A. K. Nowak. 1,473,389; Nov. 6.
Bromine, Recovering. C. W. Jones. 1,473,295; Nov. 6.

Broom or brush, Push. H. D. Neff. 1,472,853; Nov. 6.
Brush, Bath and massage. E. R. Poirier. 1,473,315; Nov. 6.
Brush-tripping device. L. R. Waller. 1,472,818; Nov. 6.
Bucket, Elevating. V. D. Steedsman and E. H. Intlehouse. 1,473,258; Nov. 6.
Buckle, Lever belt. A. H. Kerngood. 1,473,581; Nov. 6.
Builder's tool. H. R. Roeglin. 1,472,992; Nov. 6.
Building blocks, Making artificial. F. M. Sawyer. 1,473,200; Nov. 6.
Building construction. E. N. Biegler. 1,472,956; Nov. 6.
Building-construction system. C. Borel. 1,473,418; Nov. 6.
Building walls, Metal protection for. J. M. Norman. 1,473,584; Nov. 6.
Bumper. C. Girl. 1,472,905; Nov. 6.
Bung. C. M. Kruger. 1,473,300; Nov. 6.
Burner: *See*—
Oil burner.
Burners, Oil-drip plate for oil. A. Behrsin. 1,473,203; Nov. 6.
Bus structure. A. M. Rossman. 1,473,385; Nov. 6.
Busheling furnace. J. McGaff. 1,472,803; Nov. 6.
Buttonhole-cutter mechanism. M. McCann. 1,473,240; Nov. 6.
Cabinet. G. H. Hess. 1,473,345; Nov. 6.
Cabinet, Display. W. P. De Witt. 1,473,215; Nov. 6.
Cabinet, Display. F. Pfons. Des. 63,236; Nov. 6.
Cable clamp. L. De Calgny. 1,473,144; Nov. 6.
Cables and the like, Forwarding system for ocean. W. H. Martin. 1,472,849; Nov. 6.
Calcining apparatus. R. D. Pike. 1,472,935; Nov. 6.
Calculating device. H. Foley. 1,473,573; Nov. 6.
Calculating machine. A. Seguin. 1,472,942; Nov. 6.
Camera lock for preventing double exposure. W. F. C. Devlin and S. W. Graham. 1,473,088; Nov. 6.
Can: *See*—
Liquid-applying can.
Can opener. V. V. Curtis. 1,473,600; Nov. 6.
Can opener. C. W. Ervin. 1,473,027; Nov. 6.
Can opener, Reciprocating knife. J. T. McGrath. 1,473,306; Nov. 6.
Can-opening device. F. B. Angell. 1,472,862; Nov. 6.
Cane and telescope, Combined. E. Thimgren. 1,473,527; Nov. 6.
Car coupler, Mine. F. L. Peart and H. M. Jones. 1,472,990; Nov. 6.
Car door. S. T. Walkup. 1,473,328; Nov. 6.
Car-door locking and releasing attachment, Dump-. H. S. Hart. 1,472,908; Nov. 6.
Car, Motor. F. Mayer. 1,473,194; Nov. 6.
Car, Railway. T. Elliott. 1,473,024; Nov. 6.
Car, Tunnel-kiln. H. D. Lillibridge. 1,473,152; Nov. 6.
Car wheels, Making steel or semisteel. W. C. Klein. 1,473,480; Nov. 6.
Cars, Bull board for cattle. F. J. S. Miely. 1,473,494; Nov. 6.
Carbides of sodium and boron, Producing. C. E. Parsons. 1,473,510; Nov. 6.
Carburetor. W. M. Gentle. 1,473,182; Nov. 6.
Carburetor. R. S. Hill. 1,472,834; Nov. 6.
Carburetor. W. R. McCulla. 1,473,113; Nov. 6.
Card-perforating machine. J. H. Gault. 1,472,829; Nov. 6.
Cards and the like, Method and means for making show. W. C. Graham and J. F. Rasmussen. 1,472,973; Nov. 6.
Carding machines, Feeding and weighing device for. J. F. Schimek. 1,472,815; Nov. 6.
Carriages, Detachable sleigh runner for baby. J. A. Mahr. 1,472,880; Nov. 6.
Carrier: *See*—
Cotton-picker's bag carrier.
Carrying harness. H. Fick. 1,473,477; Nov. 6.
Cart, Street-cleaning. M. J. Fitzgerald. 1,473,572; Nov. 6.
Case: *See*—
Cigar case.
Case. E. L. Schumacher. 1,473,359; Nov. 6.
Casket handle. H. W. Hodgetts. Des. 63,225–6; Nov. 6.
Caster sockets from furniture, Removing. W. F. Herold. 1,472,833; Nov. 6.
Caster support, Leg-mount. W. H. Noelting. 1,473,379; Nov. 6.
Casting rod. C. A. Obermaier. 1,473,507; Nov. 6.
Catalyst and making the same. J. C. Clancy. 1,473,543; Nov. 6.
Catalyst and making the same, Ammonia synthesis. J. C. Clancy. 1,473,544; Nov. 6.
Catheters, Method and apparatus for making. W. H. Fox. 1,473,403; Nov. 6.
Cattle-leading ring. J. S. Naylor. 1,472,883; Nov. 6.
Cellular board, Machine for making. I. Hill and P. A. Dinsmoor. 1,473,096; Nov. 6.
Centrifugal separator. C. W. Eccleston. 1,473,421; Nov. 6.
Chair: *See*—
Barber chair.
Chart, Laundry price. C. O. Reeps. 1,473,382; Nov. 6.
Chemical reactions, Producing. W. Haskins. 1,473,347; Nov. 6.
Cherry and confection center depositing apparatus. T. Bosshard. 1,473,458; Nov. 6.
Chimney cleaner. T. G. Kobl. 1,473,236; Nov. 6.
Chuck. A. E. Church. 1,473,464; Nov. 6.
Chuck. H. R. McConnell. 1,473,488; Nov. 6.
Cigar and cigarette ash receiver and table, Combination nonsmudging. W. H. Mack. 1,472,804; Nov. 6.
Cigar case. D. M. Newbold, jr. 1,472,806; Nov. 6.
Circuit-closing device. R. G. Parker. 1,473,198; Nov. 6.
Cistern. J. P. Probst. 1,473,358; Nov. 6.
Clamp: *See*—
Bench clamp. Hose clamp.
Cable clamp. Rail clamp.
Clapboard, Stone-finished. R. V. Reynolds. 1,473,253; Nov. 6.
Cleaner: *See*—
Chimney cleaner. Window cleaner.
Spark-plug cleaner.
Cleaning device. G. J. Forcier. 1,473,146; Nov. 6.
Cleansing composition. W. T. Gillett. 1,472,972; Nov. 6.
Closure. H. C. Richardson and H. F. Vaché. 1,473,408; Nov. 6.
Clothes container. V. B. Rogers. 1,473,161; Nov. 6.
Clutch. J. and C. Klepper. 1,473,564; Nov. 6.
Clutch, Automatic tensioning apparatus for closing the parts of a. E. Schneider. 1,472,855; Nov. 6.
Clutch-closing mechanism. E. Schneider. 1,472,854; Nov. 6.
Clutch for transmitting rotative motion from a driven shaft to a driving shaft, Hydraulic. E. F. McCarthy. 1,473,487; Nov. 6.
Cock, Gauge. B. B. Wittam. 1,473,068; Nov. 6.
Coffee urn. J. T. Pedersen. 1,473,440; Nov. 6.
Coffeepot. R. F. Brenner and F. A. Murrin. 1,472,901; Nov. 6.
Collar-fastening device. G. L. Brisbin. 1,473,460; Nov. 6.
Collar-stud support. A. Goldknopf. 1,473,549; Nov. 6.
Comb-cutting machine. E. G. Loomis. 1,473,111; Nov. 6.
Combination switch. E. W. Chandler. 1,473,463; Nov. 6.
Combination tool. E. Johnsgaard. 1,473,186; Nov. 6.
Combing machine. J. W. Nasmith. 1,473,197; Nov. 6.
Compressor-controlling mechanism. L. J. Clapp. 1,473,078; Nov. 6.
Compressor-controlling mechanism. L. J. Clapp. 1,473,598; Nov. 6.
Concrete construction, Precast reenforced. A. N. Laird. 1,472,917; Nov. 6.
Concrete inserts, Holder for. W. E. White. 1,473,268; Nov. 6.
Condiment container. E. Gubich. 1,473,552; Nov. 6.
Connecter. R. E. Tilton. 1,473,362; Nov. 6.
Container cover. W. Plagg. 1,473,043; Nov. 6.
Controlling mechanism. F. D. Holdsworth. 1,473,601; Nov. 6.
Conveyer, Gravity. M. H. Pade. 1,473,509; Nov. 6.
Cooling purposes, Apparatus for. W. Hamer. 1,472,831; Nov. 6.
Coop and trap, Combined chicken. A. Dawley 1,473,019; Nov. 6.
Cordage wrapper. H. L. Greve. 1,473,578; Nov. 6.
Corset abdominal supports, Designing. S. W. and H. M. McCormick. 1,473,241; Nov. 6.
Cotton-picker's bag carrier. R. Keith. 1,473,105; Nov. 6.
Cotton tramper or packer. J. F. Bailey. 1,473,455; Nov. 6.
Coupler or receiving coil, Loose. L. W. Hatch. 1,473,407; Nov. 6.
Coupling: *See*—
Hydraulic coupling. Shaft coupling.
Coupling. H. Bailey. 1,473,537; Nov. 6.
Coupon clipper. L. Faust. 1,473,089; Nov. 6.
Cow hopple. H. H. Colson. 1,473,176; Nov. 6.
Cross, Folding. H. T. Walrow. 1,473,530; Nov. 6.
Cultivator. D. C. Pedersen. 1,472,813; Nov. 6.
Cultivator. J. Rolli. 1,473,519; Nov. 6.
Curling iron. C. Passard. 1,473,312; Nov. 6.
Curtain guiding and locking device, Roller-. W. M. Richards. 1,473,517; Nov. 6.
Curtain support. W. L. Levi. 1,472,921; Nov. 6.
Cutter-grinding attachment. A. W. Erdman. 1,472,827; Nov. 6.
Cutters, Manufacturing. A. C. Davidson. 1,473,086; Nov. 6.
Cutting machine. J. Wegner. 1,472,895; Nov. 6.
Dental apparatus. M. F. Burns. 1,473,278; Nov. 6.
Dental flask. M. F. Burns. 1,473,276–7; Nov. 6.
Desk-locking mechanism. G. W. Hunt. 1,472,841; Nov. 6.
Diaphragm, Differential. F. H. Brinkerhoff. 1,473,173; Nov. 6.
Die: *See*—
Axle die.
Die-cutting machines and the like, Fixture for. W. P. Cartwright and J. F. Keller. 1,473,592; Nov. 6.
Die head. C. Jobst. 1,472,912; Nov. 6.
Differential. C. Andrade, jr. 1,473,201; Nov. 6.
Dipper, Cream. A. P. Jurgensen. 1,473,104; Nov. 6.
Dishwashing machine. J. S. Lapham. 1,473,301; Nov. 6.
Disk cutter having staggered series of side teeth. G. W. Conklin. 1,472,960; Nov. 6.
Disk wheel. J. W. White. 1,473,368; Nov. 6.
Dispensing apparatus. D. Langenzen. 1,473,376; Nov. 6.
Dispensing device. J. G. Kaefer. 1,473,187; Nov. 6.
Display box. W. Bamber. 1,472,953; Nov. 6.
Display device. C. D. Platt. 1,473,313; Nov. 6.

Display device. J. Stranders. 1,473,390; Nov. 6.
Display device. P. H. White. 1,472,820; Nov. 6.
Display stand, Book-. C. T. Weibezahn. Des. 63,246; Nov. 6.
Diver's use, Atmospheric compound for. C. J. Cooke. 1,473,337; Nov. 6.
Door. H. T. Ripper. 1,473,320; Nov. 6.
Door. W. H. Voss. 1,473,131; Nov. 6.
Drag. O. M. Blood. 1,473,457; Nov. 6.
Drag, Earth. E. A. Tucker. 1,472,949; Nov. 6.
Drainage fitting. S. L. Marsh. 1,473,439; Nov. 6.
Drier. C. A. Bulkeley. 1,472,902; Nov. 6.
Drill: *See*—
Seed drill.
Drilling machine, Portable. C. L. and L. F. Ragot. 1,473,046; Nov. 6.
Drink mixer. E. Sas. 1,472,814; Nov. 6.
Drink mixer. E. Sas. 1,473,163; Nov. 6.
Drinking fountain. W. E. Munslow. 1,473,501; Nov. 6.
Dust cap. A. L. Freedlander. 1,473,032; Nov. 6.
Ebullition, Means for maintaining. R. D. Mershon. 1,473,243; Nov. 6.
Egg-candling apparatus. V. Clairemont. 1,473,279; Nov. 6.
Eggs and slicing fruits, Means for halving. M. Riker. 1,473,383; Nov. 6.
Elastic fabric. W. Handley. 1,473,427; Nov. 6.
Electric drive mechanism. C. S. Weyandt. 1,473,167; Nov. 6.
Electric generators, Regulator for. E. J. Kohman. 1,472,873; Nov. 6.
Electric installation, Safety box for. G. B. Wadsworth. Re15,718; Nov. 6.
Electric power plant. H. R. Patterson. 1,473,586; Nov. 6.
Electric switch. G. Cameron. 1,473,010; Nov. 6.
Electric switch. H. A. Hart. 1,473,579; Nov. 6.
Electric switch. S. D. Livingston. 1,472,800; Nov. 6.
Electric timer. H. M. Appelgate. 1,472,780; Nov. 6.
Electroplating. E. N. Taylor. 1,473,060; Nov. 6.
Elevator: *See*—
Platform elevator.
Elevator safety device. W. H. Foye. 1,473,147; Nov. 6.
Emblem or badge. R. E. Randall. Des. 63,237; Nov. 6.
Engine: *See*—
Gas engine. Rotary engine.
Internal-combustion engine. Two-cycle engine.
Engine-cylinder-sleeve sealing means. A. A. Bull and R. C. Darnell. 1,473,139; Nov. 6.
Engine cylinders, Piston for. R. M. Howdeshell. 1,473,233; Nov. 6.
Engine fuel intakes, Mixing attachment for. J. W. Shaw. 1,473,052; Nov. 6.
Engines, Construction for internal-combustion. R. S. Bird. 1,472,899; Nov. 6.
Engines, Fuel control for internal-combustion. W. L. Lightford. 1,473,303; Nov. 6.
Engines, Governing mechanism for internal-combustion. H. Kent-Norris. 1,472,869; Nov. 6.
Engines in motor cars and the like, Apparatus for preventing the bursting by freezing of water-circulation systems for combustion. G. E. Jonsson. 1,473,562; Nov. 6.
Envelope. C. R. Williams. 1,473,329; Nov. 6.
Envelope opener. H. E. Swenson. 1,473,526; Nov. 6.
Envelopes and the like, Moistener for. E. E. Jenne. 1,473,594; Nov. 6.
Ether composition, Cellulose-. J. M. Donohue. 1,473,217–19; Nov. 6.
Evaporator. M. J. Kermer. 1,473,373; Nov. 6.
Explosive composition. W. O. Snelling. 1,473,257; Nov. 6.
Eyeglass and making the same. C. H. Kidwell. 1,473,151; Nov. 6.
Eyeglass receptacle. C. R. Jerry. 1,473,559; Nov. 6.
Fabric: *See*—
Elastic fabric.
Facing and backing, Interchangeable. T. Steele. 1,473,055; Nov. 6.
Fan, Portable electric. H. F. Puttaert and M. Moreau. 1,473,045; Nov. 6.
Fare-collecting device. J. W. Pope. 1,472,937; Nov. 6.
Fastener, Separable. M. F. Carr. Re15,714; Nov. 6.
Faucet. W. H. Smith. 1,472,816; Nov. 6.
Faucet, Automatic. D. M. Holbrook. 1,473,097; Nov. 6.
Feed collet. A. M. Kramp, L. F. Peters, and E. J. Rathsack. 1,473,188; Nov. 6.
Fence. A. J. Miller-Masury. 1,473,118; Nov. 6.
File, System. P. H. Welcker. 1,473,452; Nov. 6.
Film-drying apparatus. G. L. Chanler and A. L. Adatte. 1,473,542; Nov. 6.
Filter. S. Alsop. 1,472,896; Nov. 6.
Filter. H. Bechhold. 1,473,331; Nov. 6.
Filtering, decolorizing, and similar purposes, Method and apparatus for treating materials for. F. W. Manning. 1,473,491; Nov. 6.
Finger exerciser. C. R. Gorrell. 1,472,906; Nov. 6.
Fire box, Adjustable. A. Kubicki. 1,473,237; Nov. 6.
Firearm. J. D. Pedersen. 1,473,571; Nov. 6.
Fireplaces, Heating device for open. J. S. Nichols. Re15,717; Nov. 6.
Fishing rod, Detachable guide or tip for. W. B. Lindstrom. 1,473,437; Nov. 6.
Fishing tool, Multiple. H. M. Myracle. 1,473,158; Nov. 6.
Flask: *See*—
Dental flask. Molding flask.
Flytrap. R. A. Bakke. 1,473,538; Nov. 6.
Folding mechanism. H. M. Barber. 1,473,202; Nov. 6.
Food product, Making a. W. Green. 1,473,289; Nov. 6.
Fountain: *See*—
Drinking fountain.
Frame metal shoulder. G. Frater. 1,472,795; Nov. 6.
Fruit catcher and grader. J. F. Cook. 1,473,081; Nov. 6.
Fruit, Means for peeling. A. L. Duncan. 1,473,021; Nov. 6.
Fruit to be dried, Treating. A. Greco. 1,472,974; Nov. 6.
Fuel burners, Air heater for. H. S. Farquhar. 1,473,422; Nov. 6.
Fuel-control device. G. A. Houghtaling. 1,473,293; Nov. 6.
Fuel-feeding device. W. Sparks. 1,472,944; Nov. 6.
Fuel saver. A. Burdick. 1,473,461; Nov. 6.
Funnel. W. R. Dean. 1,472,916; Nov. 6.
Fur articles, Device for cleaning. O. Holstein. 1,473,431; Nov. 6.
Furnace: *See*—
Busheling furnace.
Furnace arch. C. A. Strachota. 1,472,945; Nov. 6.
Furnace insulation. C. R. Kline. 1,473,296; Nov. 6.
Furnaces, Fuel saving device for. N. J. Russell. 1,473,050; Nov. 6.
Fuse element, Electric-. F. A. Feldknap. 1,473,284; Nov. 6.
Fuse, Minor-caliber. E. R. Pillars and H. C. Leeseberg. 1,473,355; Nov. 6.
Fuse-mounting block. C. F. Gilchrist. 1,473,575; Nov. 6.
Fuse plug. H. V. Rau. 1,473,381; Nov. 6.
Gap. S. T. Woodhull and G. J. Waller. 1,473,070; Nov. 6.
Gap closer. P. Ostenberg. 1,473,250; Nov. 6.
Garage. B. F. Fitch. 1,472,793; Nov. 6.
Garment hanger and presser. J. J. Getgey. 1,473,548; Nov. 6.
Gas engine, Two-cycle. H. M. and L. O. Post. 1,473,515; Nov. 6.
Gas heater. A. V. Santarsiero. 1,473,322; Nov. 6.
Gas mixer. R. Kach. 1,473,349; Nov. 6.
Gas producer. F. E. Modlin. 1,473,119; Nov. 6.
Gate: *See*—
Water-wheel gate.
Gate. J. Shay. 1,472,994; Nov. 6.
Gate. G. B. Wood, W. C. Bird, and E. B. Packard. 1,473,125; Nov. 6.
Gauge: *See*—
Limit gauge. Pressure gauge.
Precision gauge.
Gear adapted for use in connection with hydraulic presses, steam hammers, and the like, Work-rotating. W. Halliwell. 1,472,977; Nov. 6.
Gear control. E. L. Simonson. 1,473,128; Nov. 6.
Gear friction shells, Detachable lining for draft-. W. A. Geiger. 1,472,971; Nov. 6.
Gearing. G. D. Sundstrand. 1,473,166; Nov. 6.
Gearing, Speed. P. E. Bottinelli and M. Arrighi. 1,473,459; Nov. 6.
Generator regulator. A. F. Brotz. 1,472,788; Nov. 6.
Gin feeders, cleaner attachment for cotton-. J. A. Streun. 1,473,059; Nov. 6.
Glare screen. J. J. Jacobs. 1,473,185; Nov. 6.
Glass, Apparatus for feeding molten. K. E. Peiler. 1,473,587; Nov. 6.
Glass furnaces, Raw-material conveyer for feeding. W. F. Brown. 1,473,008; Nov. 6.
Gluing machine, Box-. R. J. Gruenberg. 1,473,183; Nov. 6.
Golf club. M. Tootle 3d. 1,473,528; Nov. 6.
Golf putting box. A. B. Scott. 1,473,051; Nov. 6.
Governor for spring motors. E. Elligan. 1,473,476; Nov. 6.
Grapple. W. A. Clark. 1,473,013; Nov. 6.
Grate, Camp. A. W. Steen. 1,473,056; Nov. 6.
Grinding machine. K. Rosak. 1,473,520; Nov. 6.
Grinding mill. W. A. Gibson and C. E. Needham. 1,473,341; Nov. 6.
Guide. M. E. Clark. 1,473,465; Nov. 6.
Guitar and the like. J. Pribyl. 1,472,991; Nov. 6.
Gun mounting and other mechanism, Control system for. A. L. Perham. 1,472,885; Nov. 6.
Hair clipper. C. F. Lewis. 1,473,238; Nov. 6.
Hair-cutting, shaving, or combing device. C. F. Gaunt. 1,473,404; Nov. 6.
Hammock, Couch. B. B. Englander. Des. 63,223; Nov. 6.
Hand brace. T. J. Fegley and G. O. Leopold. 1,473,423; Nov. 6.
Handle: *See*—
Wrench handle.
Handle. F. D. Farr. 1,473,028; Nov. 6.
Handle-securing mechanism. P. A. Geier. 1,472,797; Nov. 6.
Hanger: *See*—
Radiator-pipe hanger. Screen hanger.

Hasp fastener. C. Collins. 1,473,080; Nov. 6.
Headlight construction. H. F. Dunn. 1,473,400; Nov. 6.
Headlight, Tiltable. J. A. Landis. 1,472,875; Nov. 6.
Heater: *See*—
Gas heater. Water heater.
Solar heater.
Hides and the like, Apparatus for treating. B. H. Tilston and T. Melbourne. 1,472,999; Nov. 6.
Hinge structure. S. Hammer. 1,473,290; Nov. 6.
Hitch. O. M. Julson. 1,473,563; Nov. 6.
Hog-dehairing machine. J. W. Kohlhepp. 1,473,299; Nov. 6.
Hoisting device. A. E. Norris. 1,473,248; Nov. 6.
Hook: *See*—
Line hook.
Hose clamp. N. Walker. 1,473,133; Nov. 6.
Hosiery, Apparatus for drying. J. G. Hanes. 1,472,978; Nov. 6.
Hydraulic coupling. F. Mayer. 1,472,930; Nov. 6.
Hydrocarbon motor. H. D. Church. 1,473,141; Nov. 6.
Hydrocarbon motor. L. M. Woolson. 1,473,136; Nov. 6.
Hydrocarbons, Process and apparatus for burning heavy. P. L. G. Kreutzberger and P. Germain. 1,473,566; Nov. 6.
Hydrometers, Manufacture of. M. E. Moeller. 1,473,309; Nov. 6.
Hydrosulphites, Apparatus for making. F. A. Eustis. 1,472,828; Nov. 6.
Ice-cream freezer. T. H. Stough. 1,473,588; Nov. 6.
Ice-cream freezers, Temperature-controlling means for. G. A. Wegner. 1,473,065; Nov. 6.
Ice cream, Machine for cutting brick. T. T. Harris. 1,473,553; Nov. 6.
Ice-cream packer or shipping receptacle. J. N. Graves. 1,473,226; Nov. 6.
Ignition protector. G. H. Luckenbach. 1,473,239; Nov. 6.
Impulses, Eliminating undesired. R. A. Fessenden. 1,473,179; Nov. 6.
Inclosed switch. B. E. Getchell. 1,473,574; Nov. 6.
Index-strip machine and process, Folded-. E. G. Lang. 1,473,190; Nov. 6.
Index tab. W. A. Ringler. 1,472,887; Nov. 6.
Indicator: *See*—
Price indicator. Traffic indicator.
Indicator. J. F. Dodd. 1,473,472; Nov. 6.
Inflatable ball. E. H. Taylor. 1,473,260; Nov. 6.
Ingredients and centrifugal bowl used in such process, Centrifugally separating refrigerated. C. H. Hapgood. 1,472,868; Nov. 6.
Inking mechanism. J. R. Blaine. 1,472,898; Nov. 6.
Insect exterminator. H. Alexander. 1,473,535; Nov. 6.
Internal-combustion engine. W. J. Baumgartner. 1,473,394; Nov. 6.
Internal-combustion engine. F. E. Foulke. 1,473,031; Nov. 6.
Internal-combustion engine. W. F. McCallen. 1,473,486; Nov. 6.
Internal-combustion engine, Oscillating. J. C. Peraza. 1,473,199; Nov. 6.
Iron: *See*—
Curling iron.
Iron bender. A. Hossfeld. 1,473,101; Nov. 6.
Iron or steel, Cementation of boron into the surface of. T. Miyaguchi. 1,472,850–1; Nov. 6.
Iron from iron ores, Manufacture of. S. J. Vermaes. 1,472,860; Nov. 6.
Irrigating device. L. B. Demuth. 1,473,087; Nov. 6.
Irrigation system. W. Krause. 1,472,799; Nov. 6.
Jack: *See*—
Air jack.
Joint: *See*—
Rail joint.
Journal-box lid. P. Bendixen. 1,472,785; Nov. 6.
Key. E. A. Bohlman. 1,472,787; Nov. 6.
Key-retaining device. L. B. Tebbetts. 1,473,361; Nov. 6.
Knife. E. Champlin. 1,472,826; Nov. 6.
Knife handles, Making. W. I. Nelson. 1,473,121; Nov. 6.
Knitting machines, Stop mechanism for. A. K. Hauptmann. 1,473,580; Nov. 6.
Lace machine. W. J. Hawker. 1,473,094; Nov. 6.
Ladder. J. Gründel. 1,473,228; Nov. 6.
Lamp, Combination vehicle. J. T. McGrath. 1,473,307; Nov. 6.
Lamp, Cowl. E. Kavanagh. Des. 63,231; Nov. 6.
Lamp fixture. H. M. Greist. 1,473,424; Nov. 6.
Lamp, Lens for automobile. T. C. Igo. Des. 63,230; Nov. 6.
Lamp-shade holder. J. Peterson. 1,473,380; Nov. 6.
Lantern bracket. A. J. Vallée and I. H. Scrafford. 1,472,894; Nov. 6.
Lapping machine. F. O. Hoagland. 1,472,835; Nov. 6.
Lasting machine. O. Ashton. 1,472,823; Nov. 6.
Latch, Door. R. G. Moore. 1,473,378; Nov. 6.
Lath, Plaster-board. J. Schumacher. 1,473,445; Nov. 6.
Lathe, Wood-drilling. F. H. McLain. 1,472,927; Nov. 6.
Leaf table, Extensible-. F. Schimmel. 1,473,323; Nov. 6.
Leather-grading machine. D. Parks. 1,472,989; Nov. 6.
Lens. H. H. Styll. 1,473,360; Nov. 6.
Lens-mounting machine. R. M. Wason. 1,473,367; Nov. 6.
Lifeboats, Device for securing and releasing. H. W. Broady. 1,473,274; Nov. 6.
Lighting fixture. F. Yokel. Des. 63,249; Nov. 6.
Lighting-fixture arm. A. Ullman. Des. 63,245; Nov. 6.
Lighting-fixture ring. T. Dahl. Des. 63,219; Nov. 6.
Limit gauge, Adjustable. C. W. Lundin. 1,473,351; Nov. 6.
Line hook. A. H. Humphreys. 1,472,840; Nov. 6.
Linotype machines, Main and auxiliary melting pot for. G. L. Curie. 1,473,083; Nov. 6.
Liquid-applying can. W. J. Stansbury. 1,472,817; Nov. 6.
Liquid container. A. W. Wunderlich. 1,473,453; Nov. 6.
Liquids and liquid pulps, Apparatus for the treatment of. H. R. Robbins. 1,473,160; Nov. 6.
Liquids by means of ultra-violet rays, Apparatus for sterilizing. V. Henri, A. Helbronner, and M. von Recklinghausen. 1,473,095; Nov. 6.
Lithographic and printing form roller. C. Henderson. 1,472,909; Nov. 6.
Loading machine. A. M. Gow. 1,472,907; Nov. 6.
Loading machine. R. P. Greenleaf. 1,473,227; Nov. 6.
Loading machine. E. C. Morgan. 1,473,157; Nov. 6.
Lock: *See*—
Automobile lock. Trolley lock.
Nut lock.
Lock. S. J. Adkins. 1,472,861; Nov. 6.
Lock. R. S. Bonilla. 1,473,076; Nov. 6.
Lock for sliding doors. C. A. Schmitt. 1,473,324; Nov. 6.
Locks, Safety attachment for. I. A. Treiman. 1,472,948; Nov. 6.
Magneto. W. E. Schwarzmann. 1,473,255; Nov. 6.
Mailing tube. J. A. Albertoni. 1,473,393; Nov. 6.
Mailing wrapper. H. L. Greve. 1,473,576–7; Nov. 6.
Manicuring tool. L. Boechat. 1,473,007; Nov. 6.
Matrix. D. S. Du Brul. 1,473,339; Nov. 6.
Matrix-rolling machine. C. Siple. 1,473,053; Nov. 6.
Measuring apparatus. O. J. Dorwin. 1,473,473; Nov. 6.
Meat hanger and apparatus for applying the same. R. Blades. 1,473,204; Nov. 6.
Meat press. D. A. Wallace. 1,473,590; Nov. 6.
Mechanical press. F. Humphris. 1,473,478; Nov. 6.
Mesh bag. H. B. Rowan. Des. 63,241; Nov. 6.
Metal-working machine, Combination. W. J. Pine. 1,473,356; Nov. 6.
Metal-working tool. F. P. Miller. 1,473,245; Nov. 6.
Milk dispenser. A. L. Moron. 1,473,499; Nov. 6.
Mill: *See*—
Grinding mill.
Milling blanks, Machine for. F. Müller. 1,472,852; Nov. 6.
Mining machine, Placer-. T. F. Harkins. 1,473,039; Nov. 6.
Mirror, Shaving. J. Urban. 1,473,263; Nov. 6.
Mirror support. F. W. Zink. 1,473,273; Nov. 6.
Mitering attachment, Multiple-. H. B. Rubin. 1,473,521; Nov. 6.
Mixer: *See*—
Drink mixer. Gas mixer.
Mixing device. C. B. O'Nan. 1,473,508; Nov. 6.
Moistening device. T. H. Krueger. 1,473,434; Nov. 6.
Mold-material-projecting machine. S. C. Bliss. 1,472,957; Nov. 6.
Molds, Machine for filling. L. Montupet. 1,473,246; Nov. 6.
Molding flask. L. S. Greenberg. 1,472,975; Nov. 6.
Molding machine. W. H. Nicholls. 1,472,807; Nov. 6.
Molding machine. J. T. Pokorny. 1,473,044; Nov. 6.
Molding machine, Portable. E. O. Beardsley. 1,472,784; Nov. 6.
Motion into an intermittent motion, Means for converting a continuous rotary. G. Michetti. 1,473,493; Nov. 6.
Motor: *See*—
Hydrocarbon motor. Water motor.
Spring motor.
Motor control therefor, Planer and system of. H. L. Blood. 1,472,824; Nov. 6.
Motor-cycle and like saddle. G. H. Champ and G. E. O. Kay. 1,473,462; Nov. 6.
Motor cycles, Handle attachment for. M. Slawienski. 1,473,326; Nov. 6.
Motor-driving mechanism. J. S. Coldwell. 1,473,015; Nov. 6.
Motor switch, Automatic. T. O. Perry. 1,473,441; Nov. 6.
Moving bodies from a distance, System for controlling. J. H. Hammond, jr. 1,473,149; Nov. 6.
Muffler. E. Jones. 1,473,235; Nov. 6.
Music sheet. F. R. Miller. 1,473,495; Nov. 6.
Nail polisher. G. H. Nevius. Des. 63,234; Nov. 6.
Nail-polishing machine, Electric. H. Larrúa and L. Krause. 1,472,876; Nov. 6.
Necktie support. M. J. Levey. 1,472,984; Nov. 6.
Neckwear. F. H. Holmes. 1,473,099; Nov. 6.
Newel post, Steel. C. E. Anderson. 1,472,897; Nov. 6.
Notebooks or the like, Accessory for. M. R. Hutchison. 1,473,294; Nov. 6.
Nut and bolt lock. M. R. Rumfelt. 1,473,321; Nov. 6.
Nut lock. G. Berthold. 1,473,170; Nov. 6.
Oar, Bow-facing. J. L. Ingersoll. 1,473,557; Nov. 6.
Oil burner. G. H. Mahan. 1,472,929; Nov. 6.
Oil burner. J. E. Pearson. 1,473,511; Nov. 6.
Oil burner and heater. C. B. Donaldson. 1,473,020; Nov. 6.

Oil-can holder, Automatic. E. McKenzie. 1,472,879; Nov. 6.
Oil injector. H. A. Eklund. 1,473,475; Nov. 6.
Oil refining. C. B. Forward. 1,473,402; Nov. 6.
Oils nonsludging, Making. H. R. Moody. 1,472,882; Nov. 6.
Oils, Producing low-boiling. G. L. Prichard and H. Henderson. 1,473,316; Nov. 6.
Oiler, Portable pressure. J. W. Will. 1,473,269; Nov. 6.
Ore-concentrating process. R. Luckenbach. 1,473,192; Nov. 6.
Ores containing lead and zinc, Treatment of sulphide. P. A. MacKay. 1,473,193; Nov. 6.
Oven, Portable. R. Hoffman. 1,472,836; Nov. 6.
Packaging machine. M. B. Cannon. 1,473,175; Nov. 6.
Packing. C. I. E. Mastin. 1,473,492; Nov. 6.
Packing. C. I. E. Mastin. 1,473,597; Nov. 6.
Packing, Rod. C. T. Walters. 1,473,451; Nov. 6.
Padlock with nonreversible shackle. G. M. Miller. 1,473,353; Nov. 6.
Paper dishes, Apparatus for and method of manufacturing. P. R. Simmons. 1,473,387; Nov. 6.
Paper, Sheet of wrapping. A. F. Wells. Des. 63,247; Nov. 6.
Paste composition. C. Fuer. 1,473,181; Nov. 6.
Pen, Lever-filler fountain. W. P. De Witt. 1,472,963; Nov. 6.
Pencil. W. P. De Witt. 1,472,962; Nov. 6.
Pencil. H. L. Fischer. 1,472,969–70; Nov. 6.
Pencil, Magazine. J. C. Wahl. 1,473,412; Nov. 6.
Pencils, Erasing attachment for. G. E. Ferry. 1,473,090; Nov. 6.
Phonograph. J. W. Bishop. 1,473,004–5; Nov. 6.
Phonograph. E. J. Tomlinson. 1,473,363; Nov. 6.
Phonograph, Time-announcing. A. Vasselli. 1,472,859; Nov. 6.
Phonographs, Automatic-stop mechanism for. E. A. Ruth. 1,473,125; Nov. 6.
Phonographs, Repeating mechanism for. E. F. Andrews and W. B. Sturgis. 1,473,071; Nov. 6.
Picking table. R. M. Bickley. 1,473,333; Nov. 6.
Picking table. J. P. Vogel. 1,473,365; Nov. 6.
Pile driver. H. R. Smith and A. E. Twist. 1,473,054; Nov. 6.
Pipe thimble. R. L. Wells. 1,472,819; Nov. 6.
Pipes to boilers, Device for connecting. T. J. Foley. 1,472,794; Nov. 6.
Piston. C. R. Short. 1,473,127; Nov. 6.
Piston. H. T. Thomas. 1,473,061; Nov. 6.
Piston construction. P. G. Tismer. 1,472,893; Nov. 6.
Piston rings, Means for expanding. W. R. Scott. 1,473,446; Nov. 6.
Piston, Valved. L. Tharp. 1,472,947; Nov. 6.
Plastic composition and making the same. W. V. Watson. 1,472,951; Nov. 6.
Plate or pan handling utensil. J. H. McDonald. 1,472,926; Nov. 6.
Plate or similar article of manufacture. M. H. Connor. Des. 63,217–8; Nov. 6.
Platform elevator. A. D. Heyl. 1,473,231; Nov. 6.
Plow blade. G. B. Gwynes. 1,473,229; Nov. 6.
Plow, Hand motor. R. Venziaff. 1,473,129; Nov. 6.
Plow scraper and cleaner. J. M. Dean. 1,473,143; Nov. 6.
Pole cleaning and shaving machine. R. Leedom. 1,473,582; Nov. 6.
Portière. A. Paszkiewicz. 1,472,933; Nov. 6.
Post: *See*—
Newel post.
Power-transmitting mechanism. A. C. Keller. 1,472,844; Nov. 6.
Precision gauge. W. E. Hoke. 1,472,837; Nov. 6.
Press: *See*—
Prionetting press. Mechanical press.
Meat press.
Press. H. Osswald. 1,472,810; Nov. 6.
Press. F. H. Smith and A. K. Nowak. 1,473,388; Nov. 6.
Presser beds, Tension truss for. G. W. Voelker. 1,473,364; Nov. 6.
Presses, Automatic stop device for strip-inserting mechanism of power. C. D. McDonald. 1,472,802; Nov. 6.
Presses, Fastening or locking device for trousers. E. Chambers. 1,473,207; Nov. 6.
Pressing bow and last. O. Habicht. 1,473,038; Nov. 6.
Pressure gauge. J. A. Bowden. 1,473,171; Nov. 6.
Pressure-producing mechanism, Pneumatically-assisted. M. Loughead. 1,472,801; Nov. 6.
Price indicator. H. R. Gottfried. 1,473,035; Nov. 6.
Printing machine, Address-. E. D. Belknap. 1,473,169; Nov. 6.
Prints into color prints, Converting silver. W. Lenger. 1,473,568; Nov. 6.
Projectiles, Adjustable-action fuse for. E. Schneider. 1,472,941; Nov. 6.
Pulp-screening device. A. R. Paull. 1,472,934; Nov. 6.
Pulverizer. A. A. Asplund. 1,473,073; Nov. 6.
Pump attachment, Circulation-. B. D. Gilson. 1,473,287; Nov. 6.
Pump, Automatic fluid-pressure displacement. C. B. Pendleton. 1,473,512; Nov. 6.
Pump, Compressed-air water. W. S. Hulse. 1,472,839; Nov. 6.
Pump, Compressed-air water-elevating. W. B. Erb. 1,472,968; Nov. 6.
Pump, Meter. C. E. Stahl. 1,472,996; Nov. 6.
Pump, Pneumatic. H. S. Rogers. 1,473,384; Nov. 6.
Pump, Vacuum. A. E. Krick. 1,472,874; Nov. 6.
Punch. J. Jensen. 1,473,558; Nov. 6.
Punch. W. A. Whitney. Re15,719; Nov. 6.
Rack device. A. Ranson. 1,473,318; Nov. 6.
Radiator. E. Behringer. 1,472,954; Nov. 6.
Radiator cap. A. C. Lippert and J. A. Sinko. 1,472,878; Nov. 6.
Radiator-pipe hanger. E. Behringer. 1,472,955; Nov. 6.
Radio receiving apparatus. F. G. Beetein. 1,473,417; Nov. 6.
Radio systems, Calling arrangement for. H. A. Affel. 1,472,822; Nov. 6.
Radiotelegraphy signaling system. H. F. Elliott. 1,473,220; Nov. 6.
Rail braces, Dies for forming. G. R. Gauntt. 1,472,867; Nov. 6.
Rail clamp. R. E. Neely. 1,473,504; Nov. 6.
Rail joint. M. Alvarez. 1,473,330; Nov. 6.
Rail joint. J. R. Butler. 1,473,334; Nov. 6.
Railway crossings or the like, Gate for. W. Harris. 1,472,979; Nov. 6.
Railway highway stop. J. E. Courtney. 1,473,082; Nov. 6.
Railway signaling apparatus. E. S. Tiddeman. 1,472,891; Nov. 6.
Railway signaling apparatus and apparatus for stopping trains independently of drivers. E. S. Tiddeman. 1,472,892; Nov. 6.
Railway tie. F. A. Bragg. 1,473,205; Nov. 6.
Railway tie and rail fastener, Metal. W. H. H. Welton. 1,473,067; Nov. 6.
Razor. W. H. W. Hamilton. 1,473,426; Nov. 6.
Razor, Safety. I. L. Hendricks. 1,473,344; Nov. 6.
Reamer. T. A. Gyllador ff. 1,472,798; Nov. 6.
Receptacles, Quick-acting closure for. B. Sage. 1,473,162; Nov. 6.
Record-cleaning device. A. Swenson. 1,472,857; Nov. 6.
Recording apparatus. P. L. Hill. 1,473,554; Nov. 6.
Refractory article. E. B. Forse. 1,473,286; Nov. 6.
Refrigerating apparatus. F. O. Conill. 1,473,142; Nov. 6.
Refrigerator, Evaporative. L. Kirschmann. 1,473,593; Nov. 6.
Refrigerator, Showcase. A. Cohen. 1,473,014; Nov. 6.
Register: *See*—
Sales register.
Regulator: *See*—
Fluid-pressure regulator. Generator regulator.
Resilient wheel. F. Lauboff. 1,473,483; Nov. 6.
Resistor. M. M. Kohn. 1,473,107; Nov. 6.
Rheostat. L. Kebler. 1,472,914; Nov. 6.
Rim construction, Demountable-. J. G. Swain. 1,473,525; Nov. 6.
Ring: *See*—
Binder ring. Cattle-leading ring.
Rivet. N. Zierten. 1,473,137; Nov. 6.
Riveting machine. R. P. Richards. 1,472,938; Nov. 6.
Roach trap. W. Winters. 1,473,069; Nov. 6.
Road construction. J. R. Watts. 1,473,134; Nov. 6.
Road-treating machine, Interchangeable. W. S. Goodell. 1,473,405; Nov. 6.
Rod: *See*—
Casting rod.
Roll feed device. A. I. Donnell and H. F. Wruck. 1,472,964; Nov. 6.
Roofing, Method and apparatus for ornamenting mineral-surfaced. C. J. Pater. 1,472,884; Nov. 6.
Rotary engine. F. G. O'Rourke. 1,473,249; Nov. 6.
Rubber composition and making same. H. L. Fisher. 1,473,285; Nov. 6.
Rust-removing compound. J. J. Varn Buhler. 1,473,529; Nov. 6.
Sadiron support. F. Dougherty. 1,472,866; Nov. 6.
Safe, Fireproof. C. F. Meilink. 1,473,117; Nov. 6.
Sales register, Tax-. M. H. Bowdle. 1,472,900; Nov. 6.
Salts, 2,7-dialkyl-3-dialkylamino-6-amino-10-alkylacridinium. H. Grünhagen. 1,473,550; Nov. 6.
Sash fastener. J. F. Schwer. 1,473,325; Nov. 6.
Sausage-linking machine. W. J. O. Johnson. 1,473,234; Nov. 6.
Saw ring. E. C. Avery. 1,473,536; Nov. 6.
Saw tensioning device. A. Côté. 1,473,468; Nov. 6.
Saws or saw blades, Method of and apparatus for making. A. König. 1,473,374; Nov. 6.
Scale. F. L. Sawyer. 1,473,126; Nov. 6.
Scale, Counting. J. Hopkinson. 1,473,232; Nov. 6.
Scales, Adjustable locking and sealing device for use on. J. G. Magrady. 1,473,352; Nov. 6.
Scarifier. E. E. Berry. 1,473,003; Nov. 6.
Scarifier. W. J. Endter. 1,473,221; Nov. 6.
Scenery trimmer. H. A. Connelly. 1,473,336; Nov. 6.
Scraper, Weighted. W. Elermann. 1,473,546; Nov. 6.
Screen: *See*—
Glare screen.
Screen hanger. S. I. Patton. 1,473,159; Nov. 6.
Screw. V. E. Gerzén. 1,473,033; Nov. 6.
Seal, Self-opening. G. Ramsey. 1,473,252; Nov. 6.
Seed-conditioning apparatus. F. Steigmeyer. 1,473,165; Nov. 6.

Seed drill. L. B. Knight. 1,473,297; Nov. 6.
Self-closing tube. C. N. Kelley. 1,472,845; Nov. 6.
Separator: *See*—
Centrifugal separator.
Sewer inlet, Direct. L. Gschwind. 1,473,551; Nov. 6.
Sewing machine, Filled-bag-. S. G. Tate. 1,472,998; Nov. 6.
Sewing machines, Variable-speed power transmitter for. J. S. Finch. 1,473,030; Nov. 6.
Shade bracket, Window-. C. E. Harsh. 1,473,291; Nov. 6.
Shaft coupling. A. E. Barber. 1,472,782; Nov. 6.
Shank stiffener. A. Reed. 1,473,516; Nov. 6.
Shelter, Portable. C. I. Baker. 1,473,074; Nov. 6.
Shelving, Metal. W. N. Vance. 1,473,064; Nov. 6.
Shim drift, Spoke-tightening. J. D. Tucker. 1,473,409; Nov. 6.
Shingle. N. J. Burgett. 1,473,275; Nov. 6.
Shingles, Machine for cutting composition. S. M. Langston. 1,473,377; Nov. 6.
Shock absorber. J. O. Haines. 1,473,343; Nov. 6.
Shock absorber. A. W. Kettle and A. A. Thayer. 1,472,870; Nov. 6.
Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,472,932; Nov. 6.
Shoe horn. G. H. Nevius. Des. 63,235; Nov. 6.
Shoe strings or the like, Tool for attaching tips to. L. D. Davis. 1,473,471; Nov. 6.
Shovel handles, Reenforcement for. L. E. Webster. 1,473,267; Nov. 6.
Shutter-acutating mechanism. E. N. Berggren. 1,472,786; Nov. 6.
Sign and trash receptacle, Combined street. O. C. Harris. 1,473,040; Nov. 6.
Signal: *See*—
Theft signal. Traffic signal.
Signal switch, Electric. J. O. Cadieux. 1,473,591; Nov. 6.
Signaling device, Traffic-. D. E. Hall. 1,472,976; Nov. 6.
Signaling system. P. B. Murphy. 1,472,987; Nov. 6.
Skate, Tube. W. F. Reach. 1,472,886; Nov. 6.
Sled knee. J. H. Anderson. 1,473,415; Nov. 6.
Sleigh, Power-driven. C. H. Colburn. 1,473,281; Nov. 6.
Slicing machine. W. H. Donald. 1,473,145; Nov. 6.
Slicing machine. S. T. Hoyt. 1,472,838; Nov. 6.
Soap manufacturing. J. W. Bodman. 1,473,396; Nov. 6.
Socket and producing same, Hardened threaded. S. Peacock. 1,473,251; Nov. 6.
Socket-wrench handle. G. O. Leopold. 1,473,436; Nov. 6.
Sodium compounds, Forming. C. Sundstrom and G. N. Terziev. 1,473,259; Nov. 6.
Solar heater. F. E. Danner. 1,473,018; Nov. 6.
Sole-pressing machine. C. D. Knowlton. 1,472,846; Nov. 6.
Solution of substances and removing coatings from bodies, Effecting. V. Lenher. 1,473,350; Nov. 6.
Sound clarifier. C. W. Johnson. 1,473,560; Nov. 6.
Sound-conveying instruments, Diaphragm for. J. A. Hacker. 1,472,820; Nov. 6.
Sound-producing mechanism. F. B. Little. 1,473,485; Nov. 6.
Spark plug. O. Allen, jr. Re15,713; Nov. 6.
Spark-plug cleaner. J. P. Tarbox. 1,472,858; Nov. 6.
Spindle mechanism, Drag-. M. Maag. 1,472,848; Nov. 6.
Splint machine. W. H. Collier. 1,473,545; Nov. 6.
Spool. E. J. Hubbard. 1,472,980; Nov. 6.
Spoon or fork holder. J. Simone. 1,472,995; Nov. 6.
Sprayer. C. Erickson. 1,473,025; Nov. 6.
Spring motor. H. L. Pitman. 1,472,936; Nov. 6.
Stamping device. J. Ertel. 1,473,026; Nov. 6.
Steam-driven machinery, Condenser for. R. O. Stearns and D. E. McGraw. 1,473,449; Nov. 6.
Steering gear, Differential. H. B. Ross. 1,472,940; Nov. 6.
Steering knuckles and other parts of vehicles, Means for lubricating. F. H. Gleason. Re15,715; Nov. 6.
Stepladder. A. L. Rogers. 1,473,443; Nov. 6.
Stool and hat hook, Restaurant. G. A. Cook. 1,473,016; Nov. 6.
Stopper: *See*—
Bottle stopper.
Stove, Collapsible. N. H. Smith. 1,473,523; Nov. 6.
Subgrading machine. C. J. Hug. 1,473,372; Nov. 6.
Submarine mine. J. H. Hammond, jr. 1,473,148; Nov. 6.
Submerged objects, Detection of. E. Benson. 1,473,332; Nov. 6.
Sulphides, Decomposing. M. O. Sem. 1,473,447; Nov. 6.
Sulphuric anhydride, Manufacturer of. M. F. Chase, F. E. Pierce, and J. Skogmark. 1,472,790; Nov. 6.
Supporter. E. F. Fritz. 1,472,796; Nov. 6.
Surgical truss and the like. T. Beasley. 1,473,539; Nov. 6.
Swimming device. A. L. Pinkard. 1,473,514; Nov. 6.
Switch: *See*—
Combination switch. Motor switch.
Electric switch. Signal switch.
Inclosed switch. Track tongue switch.
Switch. C. E. Treat. 1,473,262; Nov. 6.
Switch mechanism. D. D. Gordon. 1,473,225; Nov. 6.
Switch movement. D. D. Gordon. 1,473,224; Nov. 6.
Switch safety boxes, Lock for. B. B. White. 1,473,091; Nov. 6.
Switching apparatus. W. M. Scott. 1,473,386; Nov. 6.
Switching device. C. L. Lilleberg. 1,473,304; Nov. 6.
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Leaf table. Picking table.
Talking machines, Automatic stop for. K. Nalbantian. 1,473,503; Nov. 6.
Tampon packer and syringe, Combined. C. L. Tinker. 1,473,062; Nov. 6.
Tank structure. R. V. Bingay. 1,473,595; Nov. 6.
Tape holder and moistener, Sealing. L. G. Massicotte. 1,473,153; Nov. 6.
Tape-threading machine. G. M. Eames and J. C. Ringe. 1,473,022; Nov. 6.
Tea cartridge. L. Hirschhorn. 1,473,429; Nov. 6.
Tea cartridge. B. and L. Hirschhorn. 1,473,430; Nov. 6.
Teeth, Composition of matter for filling root canals in. P. W. Kruger. 1,473,482; Nov. 6.
Telephone cover. M. R. Foster. 1,473,180; Nov. 6.
Telephone support. A. Levin. 1,473,191; Nov. 6.
Telephone systems, Ringing channel for multiple. H. A. Affel. 1,472,821; Nov. 6.
Theft signal. L. R. Zepka. 1,473,272; Nov. 6.
Therapeutic appliance. F. A. Anderson. 1,472,779; Nov. 6.
Thermotherapeutic applicator. S. Nessler. 1,473,506; Nov. 6.
Ticket device, Counter-display price-indicating-. H. R. MacKenzie. 1,472,928; Nov. 6.
Tie: *See*—
Railway tie.
Tie form or holder. W. Hils. 1,473,346; Nov. 6.
Tile, Building. Q. Monier. Des. 63,233; Nov. 6.
Tile, Composition for building. G. Rau. 1,473,047; Nov. 6.
Tile panels, Apparatus for making imitation-. A. Stockstrom. 1,473,524; Nov. 6.
Time-control arrangement. L. J. Stern. 1,473,057; Nov. 6.
Time recorder, Watchman's. J. L. L. McCormack. 1,472,925; Nov. 6.
Timer. R. C. Clarke. 1,473,079; Nov. 6.
Timer. F. Riegelman. 1,472,939; Nov. 6.
Tire and manufacture thereof, Cushion. L. R. Davis. 1,472,903; Nov. 6.
Tire, Automobile. H. C. Hower. Des. 63,227–9; Nov. 6.
Tire casings, Method and apparatus for molding. T. Midgley. 1,472,881; Nov. 6.
Tire chain. H. C. Fisher and T. O. Clark. 1,473,340; Nov. 6.
Tire, Cushion. J. E. Mackay. 1,472,986; Nov. 6.
Tire, Cushion. V. L. Wilson. 1,473,270; Nov. 6.
Tire for vehicle wheels, Spring. J. Lamb. 1,472,918; Nov. 6.
Tire nonskid device. M. Hallanan. 1,473,425; Nov. 6.
Tire patch. T. J. Jackson. 1,473,184; Nov. 6.
Tire, Pneumatic. P. Jones. 1,472,913; Nov. 6.
Tire remover. A. Boock. 1,473,397; Nov. 6.
Tire, Resilient. J. M. Abrams. 1,473,414; Nov. 6.
Tire, Resilient. C. E. Murray, jr. 1,473,502; Nov. 6.
Tire, Wheel. K. F. Koning. 1,473,565; Nov. 6.
Tires, Device for repairing pneumatic. E. F. Pawsat. 1,472,812; Nov. 6.
Toaster, Automatic. A. De Matteis. 1,473,213; Nov. 6.
Toilet-article container. R. P. Gross. Des. 63,224; Nov. 6.
Tong. O. Pearce and I. Bales. 1,473,123; Nov. 6.
Tool box. S. P. Ray. 1,473,319; Nov. 6.
Toothbrush. A. Pletman. 1,473,357; Nov. 6.
Toothbrush. W. L. Weatherwax. 1,473,000; Nov. 6.
Tourniquet. A. E. Henderson. 1,473,041; Nov. 6.
Towline bumper. S. C. Gould. 1,473,288; Nov. 6.
Toy. F. R. Densmore and C. H. Kessler. 1,473,214; Nov. 6.
Toy. E. A. Hyman. 1,472,842; Nov. 6.
Toy clown. T. F. Kotter. Des. 63,232; Nov. 6.
Toy pistol. G. R. Cudlipp. 1,473,419; Nov. 6.
Toy, Pneumatic. W. R. Dray. 1,473,178; Nov. 6.
Toy railway. F. C. Bauer. 1,472,783; Nov. 6.
Track tongue switch, Round-. R. B. Older. 1,472,808; Nov. 6.
Traction or antiskid device. J. Reichert. 1,473,442; Nov. 6.
Traction track and its supporting truck, Ground-treading endless. J. G. Leyner. 1,473,569; Nov. 6.
Tractor and motor vehicles, Attachment for. A. W. Knutson. 1,473,298; Nov. 6.
Tractor attachment. C. B. Rose. 1,472,888; Nov. 6.
Tractor spur or lug, Removable. C. M. Steward. 1,473,058; Nov. 6.
Tractor wheels, Detachable traction lug for. C. S. Burton. 1,473,398; Nov. 6.
Tractors, Clutch-lever attachment for. L. Conboy. 1,473,466; Nov. 6.
Traffic indicator. W. D. Kyle. 1,473,375; Nov. 6.
Traffic signal, Automatic. C. M. Snell. 1,473,448; Nov. 6.
Transformer structures, Forming. R. V. Bingay. 1,472,863; Nov. 6.
Transmission. G. O. Holstad. 1,473,555; Nov. 6.
Transmission, Auxiliary. E. F. Dick. 1,473,216; Nov. 6.
Transmission band. M. L. Bruce. 1,473,009; Nov. 6.
Transmission system, Carrier-wave. A. W. Kishpaugh. 1,473,433; Nov. 6.
Trap: *See*—
Rat trap.

Trap. N. S. Nelson. 1,473,505; Nov. 6.
Trimmer: *See*—
Scenery trimmer.
Trolley lock. W. M. Lauer. 1,473,567; Nov. 6.
Trough for poultry, Food and water. A. R. Webb. 1,473,266; Nov. 6.
Trough, Hog. M. J. Hosch. 1,473,100; Nov. 6.
Trousers presser and hanger. J. J. Getgey. 1,473,547; Nov. 6.
Truck and wagon dump. W. H. Wenholz. 1,473,531; Nov. 6.
Truck-loading scoop. F. Libertini and A. Saveno. 1,473,109; Nov. 6.
Trucks of tractors and traction engines, Steering mechanism for the. J. G. Leyner. 1,473,570; Nov. 6.
Trunk seal. L. W. Christophel. 1,473,011; Nov. 6.
Truss. J. W. Buckley. 1,473,392; Nov. 6.
Tub bench. D. H. Wyatt. 1,473,271; Nov. 6.
Tube: *See*—
Mailing tube. Self-closing tube.
Tubs, Means for tiltably supporting. H. M. Vaughan. 1,473,264; Nov. 6.
Tunneling machine. E. C. Morgan. 1,473,498; Nov. 6.
Turbine-gate-operating mechanism. H. B. Taylor. 1,473,391; Nov. 6.
Turbine. T. H. Pettengill. 1,473,513; Nov. 6.
Turntable. A. Y. Dodge and R. J. Statz. 1,472,792; Nov. 6.
Two-cycle engine. C. P. Brockway. 1,473,602; Nov. 6.
Two-cycle engine, High-compression. H. Ruehman. 1,473,124; Nov. 6.
Type lines, Mechanism for holding. H. C. Osborn. 1,472,809; Nov. 6.
Typewriter. L. R. Roberts. 1,473,254; Nov. 6.
Typewriter attachment. E. L. Dailey. 1,473,470; Nov. 6.
Typewriters, Letter-width-spacing mechanism in. T. E. Buschmann. 1,472,825; Nov. 6.
Typewriting machine, Electric. E. H. Hebern. 1,473,292; Nov. 6.
Typewriting machine, Portable. W. A. Papworth. 1,472,811; Nov. 6.
Umbrella, Self-opening. S. S. Fretz, sr. 1,473,222; Nov. 6.
Undergarment. C. L. Mowrer. 1,473,500; Nov. 6.
Upholstery-securing device. R. B. Hollenbeck and H. Roe. 1,473,098; Nov. 6.
Utensils, Attachment for. E. M. Chandler. 1,473,335; Nov. 6.
Vacuum-producing apparatus. J. W. Greig. 1,473,037; Nov. 6.
Valve. J. A. Costello. 1,473,210; Nov. 6.
Valve, Automatic liquid-level gauge. C. F. Mattingly. 1,473,154; Nov. 6.
Valve, Disk. T. Cosgrove, jr. 1,473,282; Nov. 6.
Valve, Drifting. W. F. Kiesel, jr. 1,473,106; Nov. 6.
Valve for low-pressure steam-heating apparatus, Automatic air-inlet. F. and H. G. Taylor. 1,472,946; Nov. 6.
Valve for tank cars, Outlet. W. A. Drake. 1,473,474; Nov. 6.
Valve, Irrigation. J. W. Ellis. 1,473,401; Nov. 6.
Valve, Nonreturn. C. F. Mattingly and C. F. Montgomery. 1,473,155; Nov. 6.
Valve-operating mechanism. G. L. Bull. 1,473,077; Nov. 6.
Valve-operating mechanism. A. F. Kleist. 1,473,481; Nov. 6.
Vault, Metallic grave. C. A. Albrecht. 1,473,534; Nov. 6.
Vehicle body. T. Elliott. 1,473,023; Nov. 6.
Vehicle bumper. C. C. Himes. 1,473,371; Nov. 6.
Vehicle, Motor. H. D. Church. 1,473,140; Nov. 6.
Vehicle, Motor. E. G. Gunn. 1,473,092–3; Nov. 6.
Vehicle, Motor. J. J. Roth, sr. 1,473,444; Nov. 6.
Vehicle springs, Spring spreader for. G. L. E. Klingbell. 1,472,916; Nov. 6.
Vehicle towing device. R. R. Cowles. 1,473,211; Nov. 6.
Vehicle wheel. R. W. Harroun. 1,473,406; Nov. 6.
Vehicle wheel. J. P. Seaholm. 1,472,856; Nov. 6.
Vehicles, Auxiliary spring device for. A. Telleson and W. W. Warnock. 1,473,589; Nov. 6.
Vehicles, Brake and gas control for self-propelled. L. G. Sabbag and R. Anton. 1,472,993; Nov. 6.
Vending machine. W. L. T. Hain. 1,473,230; Nov. 6.
Ventilator. G. Enkler. 1,472,967; Nov. 6.
Vessel seal. W. L. Clark and W. J. Hawkins. 1,473,280; Nov. 6.
Violin finger board. A. Shaeffer. 1,472,943; Nov. 6.
Vision device, Clear-. V. T. Faubert, J. Anekee, and C. L. Young. 1,473,029; Nov. 16.
Wagon brake. J. C. Rogers. 1,473,518; Nov. 16.
Wagon hitch. R. C. Dugan. 1,472,965; Nov. 6.
Wall construction, Building-. W. O. Johnstone. 1,472,981; Nov. 6.
Wall slab. F. Zelko. 1,473,533; Nov. 6.
Warp roll. R. Thornton. 1,473,450; Nov. 6.
Washbench, Folding. P. C. Mossner. 1,473,195; Nov. 6.
Washing apparatus for fibrous materials. R. W. Cook. 1,473,209; Nov. 6.
Washing machine. C. E. McCoy. 1,473,112; Nov. 6.
Washing machine. B. S. McCutchen. 1,473,489; Nov. 6.
Washing machine. W. H. Voss. 1,473,130; Nov. 6.
Water-control system, Feed-. D. B. Morison. 1,472,931; Nov. 6.
Water heater. J. H. Beckman. 1,473,002; Nov. 6.
Water heating and circulating device. R. Greenham. 1,473,036; Nov. 6.
Water motor. J. T. Johnston and J. Kincaid. 1,473,103; Nov. 6.
Water seal for containers. H. F. Leichtfuss. 1,473,302; Nov. 6.
Water-wheel gate. L. Lyndon. 1,472,924; Nov. 6.
Weather strip. S. F. Haskell. 1,473,428; Nov. 6.
Weeding and transplanting device. W. H. Hennings. 1,472,832; Nov. 6.
Welding or soldering composition. A. Baewskin. 1,472,781; Nov. 6.
Wells, Oil-saving device for oil. O. B. Anderson. 1,472,952; Nov. 6.
Wells, Operating oil. F. A. Howard. 1,473,348; Nov. 6.
Wheel: *See*—
Automobile wheel. Resilient wheel.
Disk wheel. Vehicle wheel.
Wheel. R. E. Choate. 1,473,399; Nov. 6.
Wheel. J. C. Cromwell. 1,473,283; Nov. 6.
Wheel. T. G. Dade. 1,473,084–5; Nov. 6.
Wheel expander. J. B. Klein. 1,472,915; Nov. 6.
Wheels and the like, Carrier for spare. F. K. Lawrence. 1,472,983; Nov. 6.
Wheels, Making hand. A. Knubel. 1,473,189; Nov. 6.
Wheels, Manufacture of metal. C. Schenck and L. Fine. 1,473,164; Nov. 6.
Whisk, Hydraulic. E. Albano. 1,473,454; Nov. 6.
Winding machine, Cheese-. T. A. and H. A. Boyd. 1,473,172; Nov. 6.
Winding machines, High-speed traverse mechanism for. G. J. McGann. 1,472,847; Nov. 6.
Window. H. G. Macwilliam. 1,473,438; Nov. 6.
Window cleaner. A. M. Becker. 1,473,395; Nov. 6.
Window guard, Automatic electric. W. F. Burns. 1,472,864; Nov. 6.
Window holder, Adjustable storm-. G. A. Awalt. 1,473,416; Nov. 6.
Window stay. J. A. Lane. 1,472,920; Nov. 6.
Window strip for vehicle windows. S. W. Nicholson. 1,473,310; Nov. 6.
Wire fastener. S. Y. Monckton. 1,473,497; Nov. 6.
Wire-straightening arbor. E. F. Shuster. 1,473,256; Nov. 6.
Wire-straightening machine. L. Thompson. 1,473,261; Nov. 6.
Wire stretcher. R. V. Johnson. 1,473,150; Nov. 6.
Wire-weaving machine. G. H. Norris and E. A. Ernest. 1,472,988; Nov. 6.
Wrecking tool. S. F. Anderson and A. Farb. 1,473,072; Nov. 6.
Wringers and ironing machines, Guard for. F. Hrebek. 1,473,042; Nov. 6.
Yarn wound in compact form, Bleaching of. J. T. and J. Brandwood. 1,472,958; Nov. 6.
Yeast manufacture. F. Hayduck. Re15,716; Nov. 6.

CLASSIFICATION OF PATENTS

ISSUED NOVEMBER 6, 1923.

NOTE.—First number=class, second number=subclass, third number=patent number.

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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abraham & Straus, Inc., New York, N. Y. Men's underwear. 175,945; Nov. 13; Serial No. 172,815; published Aug. 28, 1923.

Acme Can Company, Philadelphia, Pa. Tin, metal, and paper packages. 176,044; Nov. 13; Serial No. 180,203; published Sept. 4, 1923.

Acme Cone Co., Philadelphia, Pa. Cake cones. 175,869; Nov. 13; Serial No. 175,177; published Aug. 28, 1923.

Aeolian Company, The, New York, N. Y. Assembled radio transmitting and receiving sets. 175,751; Nov. 13; Serial No. 166,124; published Aug. 21, 1923.

Aird-Don Co., Troy, N. Y. Boilers for heating purposes. 175,725; Nov. 13; Serial No. 179,254; published Sept. 4, 1923.

Alden, Clarence J., doing business as The Painesville Metallic Binding Co., Painesville, Ohio. Metallic flat curtain rods. 176,020; Nov. 13; Serial No. 176,867; published Sept. 4, 1923.

Alden Manufacturing Company, Springfield, Mass. Parts for radio apparatus. 175,843; Nov. 13; Serial No. 180,953; published Sept. 4, 1923.

Allied Belting Company, The, Greenville, Ohio. News bags, aprons, and coal bags. 175,872; Nov. 13; Serial No. 179,128; published Sept. 4, 1923.

Allied Packers, Incorporated, Chicago, Ill. Meats, lard, mincemeat, butter, eggs, etc. 176,087; Nov. 13.

Al-Lon Manufacturing Company, Inc., Baltimore, Md. Shoe bags, clothes protectors, clothespin aprons. 175,887; Nov. 13; Serial No. 180,647; published Sept. 4, 1923.

American Cotton Oil Company, The, Union Township, near Guttenberg, N. J., and New York, N. Y. Edible oils and fats. 175,734; Nov. 13; Serial No. 178,944; published Sept. 4, 1923.

American Cotton Oil Company, The, Union Township, near Guttenberg, N. J., and New York, N. Y. Edible oils and fats and combinations thereof. 175,852; Nov. 13; Serial No. 176,709; published Aug. 28, 1923.

American Diamond & Jewelry Co. (See Shapiro, Esther C.)

American European Service Bureau, New York, N. Y. Preparation for the treatment of syphilis. 176,095; Nov. 13.

American Gear Company, Jackson, Mich. Gears and shafts. 175,850; Nov. 13; Serial No. 180,461; published Aug. 28, 1923.

American Radio Relay League, Inc., The, Hartford, Conn. Booklets or pamphlets. 175,771; Nov. 13; Serial No. 177,159; published Aug. 21, 1923.

American Thermos Bottle Company, Norwich, Conn. Temperature-retaining vessels. 176,064; Nov. 13; Serial No. 181,102; published Sept. 4, 1923.

American Writing Paper Company, Holyoke, Mass. Writing and printing paper. 176,084; Nov. 13.

American Writing Paper Company, Holyoke, Mass. Index bristol. 176,104; Nov. 13.

Aminoff, Sam M., Chicago, Ill. Brassières and bloomers. and a union garment. 176,089; Nov. 13.

Andrews, H. P., Paper Company, New York, N. Y. Ledger paper. 175,989; Nov. 13; Serial No. 167,760; published Aug. 28, 1923.

Anthracite Supply Company. (See Israel, Ralph.)

Art Ornament Co., The, New York, N. Y. Manicure sets. 176,034; Nov. 13; Serial No. 179,450; published Sept. 4, 1923.

Assets Producing Company, doing business as Atlantic-Pacific Paint Works, Chicago, Ill. Paints, varnishes, paint enamels, stains, and colors. 176,040; Nov. 13; Serial No. 179,921; published Sept. 4, 1923.

Associated Merchandising Corporation, Newark, N. J., and New York, N. Y. Women's dresses and hosiery. 175,964; Nov. 13; Serial No. 172,194; published Aug. 21, 1923.

Atlantic-Pacific Paint Works. (See Assets Producing Company.)

Atwater Kent Manufacturing Company, Philadelphia, Pa. Radio telegraph and telephone instruments and sets and parts therefor, etc. 175,913; Nov. 13; Serial No. 180,410; published Aug. 21, 1923.

Baker, Hamilton and Pacific Company, San Francisco, Calif. Adhesive tape for electrical purposes. 175,762; Nov. 13; Serial No. 170,355; published Aug. 7, 1923.

Baker, Hamilton and Pacific Company, San Francisco, Calif. Carpenters' steel squares, family weighing scales, shingling-hatchet gauges, etc. 175,763; Nov. 13; Serial No. 170,350; published Aug. 28, 1923.

Baker, Hamilton and Pacific Company, San Francisco, Calif. Lead pencils and carpenters' pencils. 175,950; Nov. 13; Serial No. 170,349; published Aug. 28, 1923.

Baker-Perkins Manufacturing Corporation, Saginaw, Mich. Baking ovens. 175,773; Nov. 13; Serial No. 177,581; published Aug. 21, 1923.

Barmon Brothers Company Inc., Buffalo, N. Y. Dresses. 176,092; Nov. 13.

Bate, Warwick G., Newton Falls, Ohio. Prayer and motto cards. 175,781; Nov. 13; Serial No. 178,544; published Aug. 21, 1923.

Bear Brand Hosiery Co. (See Paramount Knitting Company, assignor.)

Beck, Wm. & Chas., Inc., Lawrence, Mass. Linen fire hose. 175,851; Nov. 13; Serial No. 176,874; published Aug. 7, 1923.

Behrer, Martin, doing business as Behrer & Company, New York, N. Y. Shower and shampoo fixtures, curtain rods, bathroom stalls, etc. 175,809; Nov. 13; Serial No. 144,958; published Aug. 28, 1923.

Bellevue Kraut & Pickling Co., The, Bellevue, Ohio. Canned sauerkraut. 175,829; Nov. 13; Serial No. 182,125; published Sept. 4, 1923.

Belo, A. H., & Company, Incorporated, Galveston and Dallas, Tex. Daily newspaper. 175,932–4; Nov. 13; Serial Nos. 174,880–2; published Aug. 21, 1923.

Belo, A. H., & Company, Incorporated, Galveston and Dallas, Tex. Semiweekly agricultural newspaper. 175,951; Nov. 13; Serial No. 174,883; published Aug. 21, 1923.

Bemis, Charles B., Athol, Mass. Frozen confection. 175,736; Nov. 13; Serial No. 178,891; published Aug. 28, 1923.

Berendsen Silk Knitting Co., Bangor, Pa. Hosiery. 175,795–6; Nov. 13; Serial Nos. 179,646–7; published Aug. 28, 1923.

Bergman, Adolph, doing business as Osceola Knitting Mills, Philadelphia, Pa. Knitted jackets, coats, sweaters, and golf stockings. 175,927; Nov. 13; Serial No. 179,923; published Aug. 28, 1923.

Besson & Co. Ltd., London, England. Wind musical instruments. 175,902; Nov. 13; Serial No. 177,066; published Aug. 21, 1923.

Bethlehem Steel Company, Bethlehem, Pa. Metal valves for mains and pipes. 176,037; Nov. 13; Serial No. 179,845; published Sept. 4, 1923.

Bobwhite Chemical Corporation, New York, N. Y. Balm for the treatment of abnormal complications of the udder and to relieve inflammation in galls, cuts, etc. 176,091; Nov. 13.

Borroughs, Joseph N., Oakland, Calif. Towel cabinets. 175,784; Nov. 13; Serial No. 178,023; published Aug. 28, 1923.

Branford Electric Company, Inc., New York, N. Y. Electric appliances. 175,949; Nov. 13; Serial No. 172,634; published Aug. 21, 1923.

Bresler, Abraham, doing business as Lubraseptol Co., New York, N. Y. Lubricants for dental engines and general lubricant purposes. 176,050; Nov. 13; Serial No. 180,959; published Sept. 4, 1923.

Bridgeman-Russell Co., Duluth, Minn. Ice cream. 175,779; Nov. 13; Serial No. 177,268; published Aug. 28, 1923.

Brine, James W., Company, Boston, Mass. Shoe and skate bags. 176,001; Nov. 13; Serial No. 172,729; published Sept. 4, 1923.

Brodie, Ralph N., doing business as Ralph N. Brodie Co., Oakland, Calif. Metallic and nonmetallic gears. 175,788; Nov. 13; Serial No. 179,764; published Aug. 28, 1923.

Brown and Brown, Drs., Chicago, Ill. Medicated wax for treatment of pyorrhea. 176,021; Nov. 13; Serial No. 177,269; published July 31, 1923.

Brune, Pottberg & Co., New York, N. Y. Cotton piece goods. 176,055; Nov. 13; Serial No. 182,202; published Sept. 4, 1923.

Brune, Pottberg & Co., New York, N. Y. Cotton piece goods. 176,057–8; Nov. 13; Serial Nos. 182,291–2; published Sept. 4, 1923.

Bussmann Manufacturing Company, St. Louis, Mo. Portable electric lamps. 175,845; Nov. 13; Serial No. 180,746; published Aug. 21, 1923.

Cabarrus Cotton Mills, Kannapolis, N. C. Cotton piece goods, sheets, pillowcases. 176,096; Nov. 13.

Cabot, Godfrey L., Inc., Boston, Mass. Carbon black. 176,012; Nov. 13; Serial No. 176,068; published Sept. 4, 1923.

California Bakery Company, Bisbee, Ariz. Bread. 175,812; Nov. 13; Serial No. 153,076; published Aug. 14, 1923.

Callow, Horace F., doing business as Kekionga Scalp Tonic Company, Decatur, Ind. Medical compounds used to cleanse the scalp, etc. 175,905; Nov. 13; Serial No. 178,426; published Aug. 21, 1923.

Campbell, John B., Philadelphia, Pa. Water wheels. 176,043; Nov. 13; Serial No. 180,046; published Sept. 4, 1923.

Capital Rodewite Company, Incorporated, South Washington, Va. Compositions for use as adhesives for wood and similar types of blocks laid on flooring or paving. 175,888; Nov. 13; Serial No. 180,653; published Sept. 4, 1923.

Cardilli, Nicholas, New York, N. Y. Perforated music rolls. 175,848; Nov. 13; Serial No. 180,584; published Aug. 21, 1923.

Cardinet Candy Company, Oakland, Calif. Candy. 175,835; Nov. 13; Serial No. 181,878; published Sept. 4, 1923.

Carlson, Grace, St. Paul, Minn. Bibs. 175,731; Nov. 13; Serial No. 179,029; published Aug. 28, 1923.

Carr, Edward G., Chicago, Ill. Earth cutting and planing machine. 175,823; Nov. 13; Serial No. 162,333; published Aug. 28, 1923.

Central Michigan Paper Company, Grand Rapids, Mich. Wrapping, manila, document, print, and other paper, etc. 176,051; Nov. 13; Serial No. 181,245; published Aug. 28, 1923.

Central Tractor Company, The, Greenwich, Ohio. Tractors, cultivators, and sulky plows. 176,046; Nov. 13; Serial No. 180,748; published Sept. 4, 1923.

Chan, L. C. & Company, San Francisco, Calif. Chop-suey sauce. 175,757; Nov. 13; Serial No. 168,753; published Sept. 4, 1923.

Chance, Albert E., doing business as Chance Company, Centralia, Mo. Piston rings. 175,894; Nov. 13; Serial No. 153,441; published Sept. 4, 1923.

Charter Chocolate Company, Boston, Mass. Candy. 175,837; Nov. 13; Serial No. 181,816; published Sept. 4, 1923.

Chautauqua Phonograph Company, Inc., Wilmington, Del. and Washington, D. C. Phonographs. 175,750; Nov. 13; Serial No. 165,580; published Aug. 21, 1923.

Chicago Paper Company, Chicago, Ill. Paper. 175,963; Nov. 13; Serial No. 171,725; published Aug. 28, 1923.

Cincinnati Wholesale Grocery Company, The, Cincinnati, Ohio. Canned peas, corn, tomatoes, and pineapple. 175,776; Nov. 13; Serial No. 177,361; published Sept. 4, 1923.

Circle Music Publishing Company, The, Cincinnati, Ohio. Musical instruments and supplies therefor. 175,770; Nov. 13; Serial No. 177,216; published Aug. 21, 1923.

Clark Rubber Manufacturing Co., Franklin, Mass. Rubber outsoles, insoles and half soles, rubber heels. 176,035; Nov. 13; Serial No. 179,715; published Sept. 4, 1923.

Colgate & Company, Jersey City, N. J. Soap for shaving. 175,899; Nov. 13; Serial No. 176,250; published Aug. 21, 1923.

Columbia Steel Equipment Company, Philadelphia, Pa. Filing cabinets. 176,090; Nov. 13.

Comly, Flanigen, Company, Philadelphia, Pa. Canned fruits, vegetables, fish, and pork and beans, etc. 175,745; Nov. 13; Serial No. 162,870; published Aug. 28, 1923.

Consolidated Textile Corporation, New York, N. Y. Mercerized cotton piece goods. 176,054; Nov. 13; Serial No. 181,559; published Sept. 4, 1923.

Continental Radio & Electric Corporation, New York, N. Y. Radio transmitting and receiving sets and parts thereof, vacuum cleaners, etc. 175,896; Nov. 13; Serial No. 175,712; published Sept. 4, 1923.

Continental Roofing & Manufacturing Co., The, Highlandtown, Baltimore, Md. Asphalt roofing. 175,876; Nov. 13; Serial No. 180,050; published Sept. 4, 1923.

Continental Roofing & Manufacturing Co., The, Highlandtown, Baltimore, Md. Roofing material. 175,877; Nov. 13; Serial No. 180,051; published Sept. 4, 1923.

Continental Roofing & Manufacturing Co., Highlandtown, Baltimore, Md. Green mineral surfaced roofing. 175,923; Nov. 13; Serial No. 180,049; published Sept. 4, 1923.

Cooper, Davidson & Klein Cap Company, St. Louis, Mo. Men's, boys', and children's caps. 175,962; Nov. 13; Serial No. 171,486; published Sept. 4, 1923.

Coops Bros., Sonoma, Calif. Fresh deciduous fruits. 175,834; Nov. 13; Serial No. 181,881; published Sept. 4, 1923.

Corle, Elisha L., Hutchinson, Kans. Phonographs. 175,748; Nov. 13; Serial No. 164,157; published Aug. 21, 1923.

Cott-a-lap Company, The, Somerville, N. J. Advertising signs. 175,832; Nov. 13; Serial No. 181,980; published Sept. 4, 1923.

Crofut & Knapp Co., The, South Norwalk, Conn. Caps and hats of felt, straw, silk, etc. 176,014; Nov. 13; Serial No. 176,329; published July 31, 1923.

Crown Willamette Paper Company, San Francisco, Calif. Paper bags. 176,003; Nov. 13; Serial No. 182,401; published Sept. 4, 1923.

Crutcher, Edwin, doing business as Golden Arrow Hosiery Mills, Nashville, Tenn. Hosiery. 175,733; Nov. 13; Serial No. 178,958; published July 10, 1923.

Dade City Citrus Growers Association, Dade City, Fla. Fresh citrous fruits. 175,778; Nov. 13; Serial No. 177,279; published Aug. 14, 1923.

Dale, Forty & Co., Ltd., London, England. Valve receiving and transmitting sets and crystal receiving sets. 175,866; Nov. 13; Serial No. 175,304; published Aug. 21, 1923.

Davidson Brothers Company, Sioux City, Iowa. Ladies' hats and bonnets. 176,028; Nov. 13; Serial No. 178,895; published July 31, 1923.

Daving, Joseph, New York, N. Y. Watches. 175,844; Nov. 13; Serial No. 180,754; published Aug. 21, 1923.

De Bevoise, Chas. R., Co., Newark, N. J. Brassières. 175,954; Nov. 13; Serial No. 175,010; published Aug. 7, 1923.

De Klyn Candy Company, The, Cleveland, Ohio. Candy. 175,849; Nov. 13; Serial No. 180,530; published Aug. 28, 1923.

Dello Ink Corp., New York, N. Y. Writing ink. 175,740–1; Nov. 13; Serial No. 178,658–9; published Aug. 21, 1923.

Detourbe, Maurice L., Paris, France. Ready mixed paints, varnishes, dry colors, etc. 176,068; Nov. 13; Serial No. 181,683; published Sept. 4, 1923.

Detourbe, Maurice L., Paris, France. Ready-mixed paints, varnishes, dry colors, etc. 176,075; Nov. 13; Serial No. 181,684; published Sept. 4, 1923.

Dickinson Fuel Company, Dallas, Tex. Blacksmith coal. 176,048; Nov. 13; Serial No. 181,253; published Sept. 4, 1923.

Doe River Overall Company, Elizabethton, Tenn. Overalls and overall coats. 175,853; Nov. 13; Serial No. 176,608; published Aug. 28, 1923.

Doll, Jacob, & Sons, New York, N. Y. Pianofortes, pianos, and phonographs. 175,729; Nov. 13; Serial No. 179,136; published Aug. 21, 1923.

Dolly Madison Dresses, Inc., New York, N. Y. Misses' dresses. 175,815; Nov. 13; Serial No. 157,760; published Aug. 21, 1923.

Dolman Manufacturing Company, Inc., Springfield, Mass. Screw drivers. 176,082; Nov. 13.

Douglas, W. L., Shoe Company, Brockton, Mass. Boots and shoes made wholly or in part of leather. 176,015; Nov. 13; Serial No. 176,331; published May 22, 1923.

Drabek, Charles, doing business as Painters Supply Co., Cleveland, Ohio. Ready-mixed paints, varnishes, paint enamels, etc. 175,956; Nov. 13; Serial No. 165,859; published Sept. 4, 1923.

Drabek, Charles, doing business as Painters Supply Co., Cleveland, Ohio. Ready-mixed paints and paint enamels. 176,060; Nov. 13; Serial No. 182,502; published Sept. 4, 1923.

Dudley, Hettie J., Richmond, Va. Fancy bags of cloth. 175,878; Nov. 13; Serial No. 180,056; published Sept. 4, 1923.

Eberhardt, Robert, doing business as Pull-Grip Electric Company, New York, N. Y. Incandescent-lamp sockets, fuse sockets, and switches. 176,063; Nov. 13; Serial No. 180,923; published Sept. 4, 1923.

Eisendrath, Joseph N., Company, The, Chicago, Ill. Leather gloves, gauntlets, and mittens. 175,968; Nov. 13; Serial No. 173,477; published July 24, 1923.

Electric Outlet Company Inc., New York, N. Y. Outlet boxes. 175,943; Nov. 13; Serial No. 173,129; published Aug. 7, 1923.

Electrical Alloy Company, The, Morristown, N. J. Electric resistance materials. 175,997; Nov. 13; Serial No. 165,365; published Sept. 4, 1923.

Elfers, William R., New York, N. Y. Articles made of or plated with precious metals. 175,728; Nov. 13; Serial No. 179,139; published Aug. 21, 1923.

Elm Refining Company, Stamford, Conn. Dental alloy and dental gold and silver. 175,910; Nov. 13; Serial No. 178,717; published Sept. 4, 1923.

Empire Soap Company, Inc., New York, N. Y. Toilet soap. 175,900–1; Nov. 13; Serial Nos. 176,889–90; published Aug. 28, 1923.

Engravograph Corporation, The, New York, N. Y. Electric engraving machines. 176,065; Nov. 13; Serial No. 181,261; published Sept. 4, 1923.

Erlanger, N., Blumgart & Co., Inc., New York, N. Y. Under wash garments. 176,083; Nov. 13.

Evertasty Confection Co. (See Sperber, Samuel N.)

Ewing, Charles E., doing business Ewing Kutzit Soap Manufacturing Company, Lincoln, Nebr. Soap compound. 175,883; Nov. 13; Serial No. 180,424; published Aug. 21, 1923.

Fahys, Joseph, & Company, New York, N. Y. Watchcases. 175,858; Nov. 13; Serial No. 175,777; published Aug. 28, 1923.

Fansteel Products Company, Inc., North Chicago, Ill. Contact points. 176,071; Nov. 13; Serial No. 181,520; published Aug. 21, 1923.

Farber Brothers, New York, N. Y. Silver-plated hollow ware. 175,868; Nov. 13; Serial No. 175,191; published Sept. 4, 1923.

Farley, Harvey Company, The, Boston, Mass. Dry goods. 175,952; Nov. 13; Serial No. 183,204; published Sept. 4, 1923.

Fashion Hat Company, New York, N. Y. Ladies', misses', and children's hats and caps. 176,032; Nov. 13; Serial No. 179,298; published Aug. 14, 1923.

Fitch Company, The, Youngstown, Ohio. Coffee. 175,938; Nov. 13; Serial No. 174,565; published Sept. 4, 1923.

Florida Citrus Exchange, Tampa, Fla. Canned citrous fruits, grapefruit. 175,912; Nov. 13; Serial No. 179,862; published Sept. 4, 1923.

Flynn, Anna D., Beach Bluff, Mass. Candy. 176,027; Nov. 13; Serial No. 178,602; published July 17, 1923.

Franklin Railway Supply Company, New York, N. Y. Auxiliary engines for locomotives. 175,753; Nov. 13; Serial No. 166,825; published July 3, 1923.

Frederick Piano Company, New York, N. Y. Pianofortes, pianos, and phonographs. 175,798; Nov. 13; Serial No. 179,594; published Aug. 21, 1923.

Friedman Bros. & Sons Neckwear Co., Inc., New York, N. Y. Ties, cravats, four-in-hand ties, and bow ties. 175,854; Nov. 13; Serial No. 176,402; published Aug. 21, 1923.

Froloset Corset Co., Detroit, Mich. Corsets, brassières, girdles, etc. 176,019; Nov. 13; Serial No. 177,180; published Aug. 28, 1923.

Frozen Fruit, Inc., Harrisburg, Pa. Candy. 175,817; Nov. 13; Serial No. 159,088; published Aug. 14, 1923.

Fry Bros. Company, The, Cincinnati, Ohio. Laundry bags of net material. 175,920; Nov. 13; Serial No. 180,277; published Sept. 4, 1923.

Fulghum & Company, Los Angeles, Calif. Hair nets. 176,101; Nov. 13.

Furgerson, Henry B., M. D., doing business as Furgerson Drug Co., Halifax, N. C. Dog and puppy tonic, antiseptic tablets, and blood pills. 176,052; Nov. 13; Serial No. 180,597; published Aug. 7, 1923.

Furnaseal Mfg. Co., Chicago, Ill. Refractory cements and protective plaster coatings. 175,802; Nov. 13; Serial No. 179,405; published Sept. 4, 1923.

Gabel Brothers, Garnerville, N. Y. Stove polish. 175,987; Nov. 13; Serial No. 150,895; published July 31, 1923.

Gedney, M. A., Company, Minneapolis, Minn. Vinegar. 175,940; Nov. 13; Serial No. 173,826; published Aug. 28, 1923.

Geller, F. W., Inc., New York, N. Y. Colors ground in oils, oil paints, enamel paints, etc. 176,024; Nov. 13; Serial No. 177,732; published Sept. 4, 1923.

General Radio Corporation, Philadelphia, Pa. Variometers, variocouplers, transformers for radio apparatus, radio receiving sets, etc. 175,919; Nov. 13; Serial No. 180,279; published Aug. 7, 1923.

Gillett, Ralph J., Importing Company, The, Cleveland, Ohio. Jewelry, tableware, etc. 175,813; Nov. 13; Serial No. 154,589; published Aug. 21, 1923.

Gilmore Petroleum Company, Los Angeles, Calif. Kerosene and lubricating oils. 175,957; Nov. 13; Serial No. 166,558; published Sept. 4, 1923.

Golden Arrow Hosiery Mills. (See Crutcher, Edwin.)

Goldman Costume Company, Inc., New York, N. Y. Ladies' dressing gowns. 175,988; Nov. 13; Serial No. 155,342; published Aug. 7, 1923.

Goldsmith, Nathan, New York, N. Y. Fresh tomatoes. 175,794; Nov. 13; Serial No. 179,664; published Sept. 4, 1923.

Goodman, A., & Sons, Inc., New York, N. Y. Matzoths. 175,824; Nov. 13; Serial No. 162,732; published Sept. 4, 1923.

Granite Cordage Company, Granite Falls and Hickory, N. C. Cords, twines, ropes, and lines. 175,873; Nov. 13; Serial No. 179,196; published Sept. 4, 1923.

Gray & Bretey Co., New York, N. Y. Luminous paint. 176,031; Nov. 13; Serial No. 179,199; published Sept. 4, 1923.

Greater Manhattan Knitting Mills, Inc., New York, N. Y. Boys' and men's sweaters. 175,969; Nov. 13; Serial No. 162,545; published Sept. 4, 1923.

Green, A. P., Fire Brick Co., Mexico, Mo. Fire brick, fire brick cement, and fire-clay tile. 176,100; Nov. 13.

Greenfield's, E., Sons, New York and Brooklyn, N. Y. Chocolates and candies. 175,787; Nov. 13; Serial No. 179,790; published Sept. 4, 1923.

Grigsby-Grunow-Hinds Co., Chicago, Ill. Reels of electric connecting conductors. 175,993; Nov. 13; Serial No. 162,991; published Sept. 4, 1923.

Gripx, Manufacturing Co., Waunakee, Wis. Door-knob fasteners. 175,944; Nov. 13; Serial No. 173,079; published Aug. 28, 1923.

Gutman Bros., New York, N. Y. Women's muslin underwear. 175,861; Nov. 13; Serial No. 175,489; published Aug. 28, 1923.

H. L. Distiliator & Son, New York, N. Y. Ladies' hats. 176,036; Nov. 13; Serial No. 179,785; published Aug. 14, 1923.

Haley, John M., & Co. Inc., New York, N. Y. Stockings and socks. 175,926; Nov. 13; Serial No. 179,938; published Aug. 28, 1923.

Haskins Bros. & Company, Sioux City, Iowa. Soap. 175,874; Nov. 13; Serial No. 179,201; published Sept. 4, 1923.

Haskins Brothers & Company, Sioux City, Iowa, and Omaha, Nebr. Soap. 175,780; Nov. 13; Serial No. 178,609; published Aug. 21, 1923.

Haskins Brothers & Company, doing business as Petroleum Soap Company, Omaha, Nebr.; Sioux City, Iowa; and St. Paul, Minn. Laundry soap. 175,895; Nov. 13; Serial No. 175,194; published Aug. 21, 1923.

Haskins & Welton, assignors to Welton & Company, Chicago, Ill. Chemical tissue for use as a surgical dressing. 175,986; Nov. 13; Serial No. 144,720; published Sept. 4, 1923.

Heidelberg, Wolff & Co., New York, N. Y. Overcoats, raincoats, smoking jackets, etc. 175,793; Nov. 13; Serial No. 179,723; published Aug. 28, 1923.

Hercules Gasoline Co., Los Angeles, Calif. Gasoline, kerosene, petroleum distillates, etc. 175,990; Nov. 13; Serial No. 160,130; published Sept. 4, 1923.

Hickok, Clarence G., doing business as Scribner's Ink Co., Portland, Oreg. Writing inks. 175,865; Nov. 13; Serial No. 175,312; published Aug. 21, 1923.

High Tension Supplies Co., Wilmington, Del. Radio lightning arresters. 175,890; Nov. 13; Serial No. 180,763; published Aug. 21, 1923.

Hill Clothes Dryer Co., Worcester, Mass. Clothes driers, balcony clothes driers, etc. 175,918; Nov. 13; Serial No. 180,282; published Sept. 4, 1923.

Hill, Herbert M., Leonia, N. J. Electrical connector clips and clamps for amateur radio use. 175,738; Nov. 13; Serial No. 178,612; published Sept. 4, 1923.

Hill-Hoel Mfg. Co., South Bend, Ind. Cedar chests. 175,833; Nov. 13; Serial No. 181,944; published Aug. 21, 1923.

Hockaday Company, The, Chicago, Ill. Wall finishes. 176,041; Nov. 13; Serial No. 179,939; published Sept. 4, 1923.

Hohner, M., New York, N. Y. Mouth harmonicas. 175,786; Nov. 13; Serial No. 179,794; published Aug. 21, 1923.

Holland Specialty Company, Peoria, Ill. Preparation for cleaning artificial dentures. 175,937; Nov. 13; Serial No. 174,647; published July 24, 1923.

Hollander-Lewis Co., Inc., Pittsburgh, Pa. Men's trousers. 175,939; Nov. 13; Serial No. 174,447; published Aug. 21, 1923.

Hoover Company, The, North Canton, Ohio. Electric suction sweepers. 175,867; Nov. 13; Serial No. 175,244; published Aug. 7, 1923.

Humil Corporation, The, New York, N. Y. Electric heating apparatus for heating rivets, slugs, etc. 176,067; Nov. 13; Serial No. 181,190; published Aug. 21, 1923.

Hutzler Brothers Co., Baltimore, Md. Shoes. 176,025; Nov. 13; Serial No. 177,848; published Aug. 28, 1923.

Hydro Governor Co., The, Sandy Hook, Conn. Engine governors. 175,821; Nov. 13; Serial No. 161,882; published Aug. 28, 1923.

Ideal Tire and Rubber Company, The, Cleveland, Ohio. Vehicle tires, inner tubes, tire casings and shoes, and repair parts. 175,911; Nov. 13; Serial No. 155,967; published Feb. 21, 1922.

Indianapolis Manufacturing Company, Indianapolis, Ind. Electric battery separators. 175,893; Nov. 13; Serial No. 151,581; published Sept. 4, 1923.

Insley Manufacturing Company, Indianapolis, Ind. Steel masts and parts thereof for the hoisting of concrete and construction materials, concrete chutes, and hoisting buckets. 176,098; Nov. 13.

International Trade Developer, Inc., Chicago, Ill. Bimonthly and annual publication. 175,855; Nov. 13; Serial No. 176,187; published Aug. 21, 1923.

Israel, Ralph, doing business as Anthracite Supply Company, Wilkes-Barre, Pa. Washboilers. 175,774; Nov. 13; Serial No. 177,439; published Sept. 4, 1923.

Jackson Corset Company, Jackson, Mich. Corsets. 176,029; Nov. 13; Serial No. 178,723; published Sept. 4, 1923.

Jackson & Finkenaur, New York, N. Y. Radio receiving sets. 175,755; Nov. 13; Serial No. 168,925; published Aug. 21, 1923.

Johnson, Mary W., doing business as The Johnson Electric Mfg. Co., Warren, R. I. Fittings for electric conduits. 175,828; Nov. 13; Serial No. 182,152; published Aug. 21, 1923.

Johnson, Mary W., doing business as The Johnson Electric Mfg. Co., Warren, R. I. Fittings for electric conduits. 176,073; Nov. 13; Serial No. 182,054; published Aug. 21, 1923.

Johnson, S. C., & Son, Racine, Wis. Polishing brushes. 176,053; Nov. 13; Serial No. 182,101; published Sept. 4, 1923.

Johnson, William H., New York, N. Y., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Soaps, shaving soaps, shaving creams, metal polish, etc. 175,746; Nov. 13; Serial No. 162,928; published Aug. 8, 1922.

Jointless Fire-Brick Co., Chicago, Ill. Fire-resisting cement for forming furnace linings. 176,070; Nov. 13; Serial No. 181,568; published Sept. 4, 1923.

Jonkoping och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 175,972; Nov. 13; Serial No. 140,435; published Aug. 28, 1923.

Jonkoping och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 175,973; Nov. 13; Serial No. 140,437; published Sept. 4, 1923.

Jonkoping och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 175,974; Nov. 13; Serial No. 140,439; published Sept. 4, 1923.

Jonkoping och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 175,975; Nov. 13; Serial No. 140,444; published Sept. 4, 1923.

Jonkoping och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 175,976–7; Nov. 13; Serial Nos. 140,446–7; published Sept. 4, 1923.

Jonkoping och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 175,978; Nov. 13; Serial No. 140,449; published Sept. 4, 1923.

Jonkoping och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 175,979; Nov. 13; Serial No. 140,452; published Sept. 4, 1923.

Jonkoping och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 175,980; Nov. 13; Serial No. 140,450; published Sept. 4, 1923.

Jönkoping och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 175,981–2; Nov. 13; Serial Nos. 140,453–4; published Sept. 4, 1923.

Jonkoping och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 175,983–4; Nov. 13; Serial Nos. 140,458–7; published Sept. 4, 1923.

Jonkoping och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 175,985; Nov. 13; Serial No. 140,458; published Sept. 4, 1923.

Kaplan, Harry E., doing business as H. E. Kaplan & Co., Chicago, Ill. Finger rings. 175,930; Nov. 13; Serial No. 180,436; published Aug. 28, 1923.

Karlin, Hyman, New York, N. Y. Olive oil. 175,860; Nov. 13; Serial No. 175,497; published Aug. 14, 1923.

Keeley Stove Company, The, Columbia, Pa. Coal, wood, and gas cooking and heating stoves and ranges and furnaces and heaters. 175,783; Nov. 13; Serial No. 178,392; published Sept. 4, 1923.

Keferstein, Starr & Co., Inc., New York, N. Y. Sealing wax. 176,061; Nov. 13; Serial No. 180,800; published Sept. 4, 1923.

Keith, Geo. E., Company, Brockton, Mass. Boot and shoe tips and counters. 176,023; Nov. 13; Serial No. 177,675; published July 24, 1923.

Kekionga Scalp Tonic Company. (See Callow, Horace F.)

Kennedy, Colin B., Company, The, St. Louis, Mo. Radio receiving sets and parts therefor. 175,889; Nov. 13; Serial No. 180,706; published Aug. 21, 1923.

Keystone Publishing Co., Philadelphia, Pa. Monthly magazine. 175,804; Nov. 13; Serial No. 179,374; published Aug. 28, 1923.

Kidd and Company, Inc., Chicago, Ill. Peanut butter. 175,777; Nov. 13; Serial No. 177,304; published Aug. 14, 1923.

Knothe Brothers Co., Inc., New York, N. Y. Garters, waist belts, and suspenders. 176,026; Nov. 13; Serial No. 177,915; published July 31, 1923.

Koefoed, Hauberg, Marstrand & Helweg, Aktieselskabet Titan, Copenhagen, Denmark. Centrifugal oil purifiers or oil separators. 175,870; Nov. 13; Serial No. 177,042; published Aug. 28, 1923.

Kolber, Michael, New York, N. Y. Men's dress and negligee shirts. 175,735; Nov. 13; Serial No. 178,926; published Aug. 28, 1923.

Lamb, Herbert W., doing business as Fireside Industries, Lagrange, Ind. Correspondence course in applied arts, decalcomania transfers, etc. 175,936; Nov. 13; Serial No. 174,742; published Aug. 28, 1923.

Lancaster Mills, Clinton, Mass. Textile cotton dresses. 175,947; Nov. 13; Serial No. 172,747; published Aug. 28, 1923.

Landers, Frary & Clark, New Britain, Conn. Electrically-driven laundry washing machines. 175,917; Nov. 13; Serial No. 180,376; published Sept. 4, 1923.

Lane Co. Inc., The, Altavista, Va. Cedar chests. 175,916; Nov. 13; Serial No. 180,377; published Aug. 28, 1923.

Leach, C. H., Company, Boston, Mass. Oil condensers, heat exchangers, and dephlegmators. 175,958; Nov. 13; Serial No. 169,719; published Aug. 21, 1923.

Lemoine, Narcisse, doing business as N. Lemoine Company, Framingham, Mass. Medicinal preparation for the treatment of piles. 175,897; Nov. 13; Serial No. 176,083; published Aug. 14, 1923.

Lemoine, Narcisse, doing business as N. Lemoine Company, Framingham, Mass. Preparation for the treatment of catarrh. 175,898; Nov. 13; Serial No. 176,084; published Aug. 14, 1923.

Life Planning Institute, Chicago, Ill. Books and pamphlets of an educational nature. 175,814; Nov. 13; Serial No. 157,069; published Aug. 21, 1923.

Lightfoot Schultz Company, Hoboken, N. J. Soaps. 175,871; Nov. 13; Serial No. 179,107; published Aug. 21, 1923.

Lionel Corporation, The, New York, N. Y. Toy transformers. 175,891; Nov. 13; Serial No. 129,731; published Sept. 4, 1923.

Loeser, David, doing business as New York Intravenous Laboratory, East Orange, N. J., and New York, N. Y. Publications. 175,819; Nov. 13; Serial No. 160,196; published Aug. 21, 1923.

Long, William R., St. Louis, Mo. Adhesives. 176,072; Nov. 13; Serial No. 181,289; published Sept. 4, 1923.

Lubraseptol Co. (See Bresler, Abraham N.)

Lyon & Healy, assignor to Lyon & Healy, Inc., Chicago, Ill. Cornets. 175,820; Nov. 13; Serial No. 161,325; published Aug. 7, 1923.

Lytton, Walter, Inc., Chicago, Ill. Combination, phonograph and radio receiving sets, loud speakers, etc. 175,999; Nov. 13; Serial No. 169,814; published Sept. 4, 1923.

Magnus Chemical Company (Inc.), Brooklyn, N. Y. Soap and soap mixtures. 175,886; Nov. 13; Serial No. 180,543; published Aug. 21, 1923.

Maison Blanche Co., New Orleans, La. Candy. 175,946; Nov. 13; Serial No. 172,753; published Aug. 28, 1923.

Manhattan Rubber Mfg. Co., Passaic, N. J. Brake lining. 175,998; Nov. 13; Serial No. 166,839; published Sept. 4, 1923.

Mannesmannröhren-Werke, Dusseldorf, Germany. Lightning arresters and rods, tips, etc. 175,747; Nov. 13; Serial No. 163,693; published Aug. 7, 1923.

Mannesmannröhren-Werke, Dusseldorf, Germany. Ammonia, chlorine, hydrogen, oxygen, and carbon-dioxide cylinders, bottles, flasks, etc. 175,994; Nov. 13; Serial No. 163,688; published Sept. 4, 1923.

Manny-Rielly Co., New York, N. Y. Knitted and textile underwear. 175,767; Nov. 13; Serial No. 177,135; published Aug. 28, 1923.

Marble Mills, Inc., The, Evanston, Ill. Underwear of knitted fabric. 175,929; Nov. 13; Serial No. 179,874; published Aug. 28, 1923.

Marret, Bonnin, Lebel & Guieu, Paris, France. Alloy intended to be used for jewelry and jewelers' goods. 176,042; Nov. 13; Serial No. 180,018; published Sept. 4, 1923.

Marshall Ventilated Mattress Co. Limited, The, Toronto, Ontario, Canada. Mattresses. 175,836; Nov. 13; Serial No. 181,838; published Aug. 28, 1923.

Marshall-Wells Company, Duluth, Minn. Sand, emery, and garnet paper, emery and garnet cloth, sharpening stones, etc. 175,906; Nov. 13; Serial No. 178,532; published Aug. 21, 1923.

Mayhew, James N., Co., Inc., Minneapolis, Minn. Shoe and slipper trees. 175,827; Nov. 13; Serial No 182,427; published Sept. 4, 1923.

M'Caw, Stevenson & Orr, Ltd., Belfast, Ireland. Adhesives. 175,996; Nov. 13; Serial No. 164,181; published Sept. 4, 1923.

Meyer-Wise & Kalchen Company, The, Cincinnati, Ohio. Sweaters, sport coats, infants' caps and tams, etc. 175,765; Nov. 13; Serial No. 177,045; published Aug. 28, 1923.

Midland Refining Company, The, Eldorado, Kans. Lubricating oils. 176,078; Nov. 13; Serial No. 182,216; published Sept. 4, 1923.

Mid West Paper & Envelope Co., Marion, Ind. Writing paper, correspondence envelopes, writing tablets, and papeteries. 175,991; Nov. 13; Serial No. 168,118; published Aug. 28, 1923.

Military Order of the Cootie, New York, and Brooklyn, N. Y. Cuts, emblems, and collar devices. 175,752; Nov. 13; Serial No. 166,316; published Sept. 4, 1923.

Miller Rubber Company, The, Akron, Ohio. Tires. 175,838; Nov. 13; Serial No. 181,762; published Sept. 4, 1923.

Molloy, David J., Company, The, Chicago, Ill. Book and catalogue covers and decorative effects. 176,033; Nov. 13; Serial No. 179,378; published Aug. 28, 1923.

Montgomery Ward & Co., Chicago, Ill. Prepared roofings, roofing and building papers, etc. 176,009; Nov. 13; Serial No. 183,079; published Sept. 4, 1923.

Moore, Benjamin, & Co., Jersey City, N. J., and Brooklyn, N. Y. Ready-mixed paints. 176,047; Nov. 13; Serial No. 180,803; published Sept. 4, 1923.

Morgan Shoe Company, Boston, Mass. Nurses' shoes. 176,016; Nov. 13; Serial No. 176,801; published July 31, 1923.

Morris & Company, Incorporated, Baltimore, Md. Middy blouses and waists. 176,081; Nov. 13.

Moses, Abram, Baltimore, Md. Window and door sills, lintels, arches, cornices, etc. 176,056; Nov. 13; Serial No. 182,109; published Sept. 4, 1923.

Mueller & Goetz, Gallon, Ohio. Preparation for cleaning clothes and fabrics. 175,884; Nov. 13; Serial No. 180,452; published Aug. 21, 1923.

Munter, Charles, New York, N. Y. Corsets, waist corsets, brassières, etc. 175,931; Nov. 13; Serial No. 179,813; published Aug. 28, 1923.

Munzer, Ida, Inc., New York, N. Y. Brassières. 176,017; Nov. 13; Serial No. 176,804; published July 31, 1923.

Musical Products Distributing Co. Inc., New York, N. Y. Phonograph-record-display stands. 175,846; Nov. 13; Serial No. 180,715; published Aug. 28, 1923.

National Biscuit Company, New York, N. Y. Biscuits and crackers. 176,097; Nov. 13.

National Process Company, Inc., New York, N. Y. Photo prints. 175,816; Nov. 13; Serial No. 158,487; published July 31, 1923.

National Retail Hardware Association, Argos and South Bend, Ind. Monthly magazine. 175,915; Nov. 13; Serial No. 180,283; published Sept. 4, 1923.

Naujoks-McLaughlin, Los Angeles, Calif. Mouthpieces of reed wind instruments. 175,732; Nov. 13; Serial No. 179,052; published Sept. 4, 1923.

Nelson, Fader F., Los Angeles, Calif. Phonographs, parts thereof, and phonograph records. 175,925; Nov. 13; Serial No. 179,948; published Aug. 21, 1923.

New Jersey Charcoal Co. Inc., Irvington, N. J. Charcoal. 175,803; Nov. 13; Serial No. 179,379; published Sept. 4, 1923.

Newmarket Trading Company, Inc., New York, N. Y. Safety razors and blades, safety-razor-blade-stropping machines. 175,970; Nov. 13; Serial No. 161,332; published Oct. 31, 1922.

New York Intravenous Laboratory. (See Loeser, David.)

Norristown Herald Printing and Publishing Co., Norristown, Pa. Periodical publication. 175,792; Nov. 13; Serial No. 179,738; published Aug. 28, 1923.

Ombrelo, Inc., New York, N. Y. Storm protective covering. 176,088; Nov. 13.

Orent's Department Store, Inc., doing business as Sagamore Commission Co., Sagamore, Mass., and New York, N. Y. Underwear and hosiery. 175,761; Nov. 13; Serial No. 171,136; published Aug. 28, 1923.

Osborn Paper Company, Marion, Ind. Writing tablets, composition books, etc. 175,965; Nov. 13; Serial No. 173,295; published Aug. 28, 1923.

Osceola Knitting Mills. (See Bergman, Adolph.)

Owen-Dyneto Corporation, Syracuse, N. Y. Electric generators, dynamos, motors, electric ignition apparatus, etc. 176,069; Nov. 13; Serial No. 181,611; published Sept. 4, 1923.

Pacific-Italian Trading Corporation, San Francisco, Calif. Fresh and dehydrated grapes. 175,766; Nov. 13; Serial No. 177,046; published Aug. 28, 1923.

Palnesville Metallic Binding Co., The. (See Alden, Clarence J.)

Painters Supply Co. (See Drabek, Charles.)

Paramount Knitting Company, The, assignor to Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 175,948; Nov. 13; Serial No. 172,650; published Aug. 28, 1923.

Pathfinder Publishing Co., The, Washington, D. C. Weekly publication. 175,914; Nov. 13; Serial No. 180,387; published Aug. 21, 1923.

Pelican Bay Lumber Company, Klamath Falls, Oreg. Lumber, laths, molding, sidings. 175,922; Nov. 13; Serial No. 180,078; published Sept. 4, 1923.

Perfect Stove & Manufacturing Co., Belleville, Ill. Coal and gas stoves and ranges. 175,859; Nov. 13; Serial No. 175,732; published Sept. 4, 1923.

Petroleum Service Corporation, Minneapolis, Minn. Liquid fuel. 176,000; Nov. 13; Serial No. 170,753; published Sept. 4, 1923.

Petroleum Soap Company. (See Haskins Brothers & Company.)

Peyton, W. P., Fruit Co., Los Angeles, Calif. Fresh citrous fruit, fresh grapefruit. 175,772; Nov. 13; Serial No. 177,863; published Aug. 14, 1923.

Phillips & Slack, Inc., Northfield, Vt. Monumental blocks of granite. 175,826; Nov. 13; Serial No. 182,548; published Sept. 4, 1923.

Plaza Music Company, New York, N. Y. Phonographs. 175,730; Nov. 13; Serial No. 179,110; published Aug. 21, 1923.

Poland Soap Works, Anniston, Ala. Washing powder, oil and liquid soap, etc. 175,992; Nov. 13; Serial No. 161,792; published Sept. 4, 1923.

Prym, William, Company, Limited, The, Stolberg, Germany. Pins. 175,857; Nov. 13; Serial No. 175,997; published Aug. 28, 1923.

Pull-Grip Electric Company. (See Eberhardt, Robert.)

Radiocelve Manufacturing Company, Newark, N. J. Telephone head sets. 175,995; Nov. 13; Serial No. 164,075; published Sept. 4, 1923.

Radiograms, Inc., Hollywood, Calif. Motion-picture films. 175,955; Nov. 13; Serial No. 166,150; published Sept. 4, 1923.

Raphael, Robert M., New York, N. Y. Infants' and children's wearing apparel. 175,961; Nov. 13; Serial No. 171,434; published Aug. 28, 1923.

Red Cedar Post & Lumber Company, Seattle, Wash. Cedar posts and lumber. 176,086; Nov. 13.

Rein, F. Charles, & Son, America, Inc., New York, N. Y. Instruments for aiding the hearing. 175,879; Nov. 13; Serial No. 180,080; published Sept. 4, 1923.

Republic Rubber Company, The, Youngstown, Ohio. Tire casings. 175,966; Nov. 13; Serial No. 173,300; published Sept. 4, 1923.

Rich-Maid Mfg. Co., Inc., Richmond, Va. Pop-corn confection. 175,759; Nov. 13; Serial No. 171,817; published Aug. 21, 1923.

Rodefeld Mfg. Co., Richmond, Ind. Automobile timers. 176,077; Nov. 13; Serial No. 182,184; published Aug. 21, 1923.

Rolup Screen Company, Wilmington, Del., and New York, N. Y. Article made of canvas or other fabric having metal cross strips and roller. 175,760; Nov. 13; Serial No. 171,511; published Sept. 4, 1923.

Romer, Frank, Washington, D. C. Printed advertising matter. 175,880; Nov. 13; Serial No. 180,239; published Aug. 21, 1923.

Rouff, Seymour, doing business as Maison Rouff, New Orleans, La. Infants' and young children's apparel. 175,935; Nov. 13; Serial No. 174,864; published Aug. 28, 1923.

Rubberized Sheeting & Specialty Co., Inc., New York, N. Y., and Chicago, Ill. Baby bloomers. 176,094; Nov. 13.

Ruberoid Co., The, Boundbrook, N. J., and New York, N. Y. Bituminized roofings, shingles, and strip shingles. 176,011; Nov. 13; Serial No. 182,721; published Sept. 4, 1923.

Sagamore Commission Co. (See Orent's Department Store, Inc.)

Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Women's, children's, and infants' coats, cloaks, wraps, suits, etc. 175,971; Nov. 13; Serial No. 160,371; published Sept. 4, 1923.

Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Coats, wraps, capes, dresses, etc. 176,085; Nov. 13.

San Jose Canning Co., San Jose, Calif. Canned vegetables. 175,801; Nov. 13; Serial No. 179,484; published Sept. 4, 1923.

Sawdey & Hunt, Los Angeles, Calif. Fresh lettuce. 175,928; Nov. 13; Serial No. 179,885; published Aug. 28, 1923.

Saxrac Company, Los Angeles, Calif. Racks for supporting musical instruments when not in use. 175,764; Nov. 13; Serial No. 169,530; published Aug. 21, 1923.

Schmidt, Johan C., Copenhagen, Denmark. Grinding wheels and disks. 175,882; Nov. 13; Serial No. 180,391; published Aug. 21, 1923.

Schubb, Thomas, Detroit, Mich. Men's suits and overcoats. 176,103; Nov. 13.

Schwab, Louis, doing business as Stevens & Co., New York, N. Y. Tools and appliances for automotive vehicles, etc. 175,756; Nov. 13; Serial No. 168,857; published Aug. 28, 1923.

Schwabacher Bros. & Co., Incorporated, Seattle, Wash. Granulated sugar. 175,775; Nov. 13; Serial No. 177,412; published Aug. 22, 1923.

Schwarzwaelder Company, Philadelphia, Pa. Waterproof fabrics. 175,825; Nov. 13; Serial No. 182,676; published Sept. 4, 1923.

Scot Knit Hosiery Company, Harrisburg, Pa. Hosiery. 175,768; Nov. 13; Serial No. 177,053; published Aug. 21, 1923.

Scribner's Ink Co. (See Hickok, Clarence G.)

Serrurier, Iwan, Altadena, Calif. Cabinet motion-picture apparatus. 176,030; Nov. 13; Serial No. 179,228; published Sept. 4, 1923.

Shapiro, Esther C., doing business as American Diamond & Jewelry Co., Chicago, Ill. Pearls, pearl necklaces, and pearl-mounted jewelry. 175,941; Nov. 13; Serial No. 173,444; published Aug. 21, 1923.

Sherman, H. B., Manufacturing Co., Battle Creek, Mich. Electric motors and parts thereof. 175,842; Nov. 13; Serial No. 181,223; published Sept. 4, 1923.

Silberstein, J. D., & Sons, Inc., New York, N. Y. Dress shirts. 175,862–3; Nov. 13; Serial Nos. 175,441–2; Aug. 28, 1923.

Simon, Horatio, & Co., New York, N. Y. Outer garments for female wear. 175,942; Nov. 13; Serial No. 173,339; published Aug. 28, 1923.

Singer Manufacturing Company, The, New York, N. Y., and Elizabeth, N. J. Electric motors and parts, controllers and parts thereof, electric lamps, etc. 175,840; Nov. 13; Serial No. 181,703; published Sept. 4, 1923.

Smithfield Company, Inc., The, Smithfield, Va. Raw and cooked hams. 175,822; Nov. 13; Serial No. 162,216; published Aug. 28, 1923.

Sorrick-Caylor Company, The, Dalton, Ga. Bedspreads. 176,059; Nov. 13; Serial No. 182,366; published Sept. 4, 1923.

Spears & Riddle Co., Wheeling, W. Va. Gasoline and lubricating oils. 175,967; Nov. 13; Serial No. 174,756; published Sept. 4, 1923.

Speidel, Fr., Pforzheim, Germany, and Providence, R. I. Chains, fobs, pendants, bracelets, etc. 175,875; Nov. 13; Serial No. 179,285; published Aug. 7, 1923.

Speidel, Fr., Pforzheim, Germany, and Providence, R. I. Chains, fobs, pendants, bracelets, etc. 175,903; Nov. 13; Serial No. 177,703; published Aug. 7, 1923.

Sperber, Samuel N., doing business as Evertasty Confection Co., Albany, N. Y. Confection comprising fruits, nuts, pop corn, and a suitable binder. 175,818; Nov. 13; Serial No. 159,533; published Sept. 4, 1923.

Spyroseal Manufacturing Company, St. Louis, Mo. Piston rings. 175,807; Nov. 13; Serial No. 143,017; published Sept. 4, 1923.

Stadeker, Gilbert L., doing business as Stadeker Mfg. Co., Chicago, Ill. Hydrometers. 175,841; Nov. 13; Serial No. 181,423; published Aug. 28, 1923.

Stanard, O. L., Dry Goods Co., Huntington, W. Va. Knitted and nainsook underwear and cotton and wool sweaters. 175,782; Nov. 13; Serial No. 178,412; published Aug. 28, 1923.

Standard Asphalt & Refining Company, Jersey City, N. J., and Chicago, Ill. Pipe coating, acidproof tank lining, expansion joint, refrigerator compound. 175,805; Nov. 13; Serial No. 131,987; published Sept. 4, 1923.

Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Lubricating oils. 176,079; Nov. 13; Serial No. 182,386; published Sept. 4, 1923.

Stanley Works, The, New Britain, Conn. Levels. 175,758; Nov. 13; Serial No. 172,296; published Aug. 28, 1923.

Starr Piano Company, The, Richmond, Ind. Player-pianos, phonographs, and records. 175,806; Nov. 13; Serial No. 135,764; published Aug. 7, 1923.

Stein, A., & Company, Chicago, Ill. Rubber sheeting. 175,830; Nov. 13; Serial No. 183,005; published Sept. 4, 1923.

Stein & Eilbogen Company, Chicago, Ill. Watches. 175,811; Nov. 13; Serial No. 150,779; published Aug. 21, 1923.

Sterling Milk Company, Oklahoma, Okla. Bottled and canned processed milk, cream, and chocolate milk food beverages. 176,102; Nov. 13.

Stevens & Co. (See Schwab, Louis.)

Strauss, Lester A., New York, N. Y. Fresh limes and lemons. 175,800; Nov. 13; Serial No. 179,493; published Sept. 4, 1923.

Sullivan, Hensley & Ponto, Denver, Colo. Ice-cream confections. 176,018; Nov. 13; Serial No. 177,145; published July 3, 1923.

Surfix Chemical Co., Detroit, Mich. Finishing or polishing material. 176,049; Nov. 13; Serial No. 180,904; published Sept. 4, 1923.

Talntor Company, The, New York, N. Y. Paris white. 176,013; Nov. 13; Serial No. 176,315; published Sept. 4, 1923.

Taylor, T. Buckley, Inc., Trenton, N. J. Cement for use in repairing musical instruments. 176,066; Nov. 13; Serial No. 181,210; published Sept. 4, 1923.
Tel-U-Where Co. of America, Boston, Mass. Directories published semiannually. 175,742; Nov. 13; Serial No. 178,693; published Aug. 28, 1923.
Tex-Craft Company, Reading, Pa. Hosiery. 175,924; Nov. 13; Serial No. 179,974; published Aug. 28, 1923.
Thompson-Barlow Company, Inc., The, New York, N. Y. Arch supports, foot cushions, heel cushions, foot pads, and insoles for boots and shoes. 175,839; Nov. 13; Serial No. 181,707; published Aug. 28, 1923.
Thompson, George K., Boston, Mass. Radio receivers, head sets, loud speakers, phonograph adapters, etc. 175,797; Nov. 13; Serial No. 179,630; published Aug. 21, 1923.
Times Printing Company of Seattle, Seattle, Wash. Column of news in its newspaper. 175,864; Nov. 13; Serial No. 175,416; published July 31, 1923.
Tin Decorating Company of Baltimore, The. (See Johnson, William H., assignor.)
Toch Brothers, Incorporated, New York, N. Y. Flat-white coatings for use on plastered walls. 175,953; Nov. 13; Serial No. 183,128; published Sept. 4, 1923.
Turner, Roy J., Chicago, Ill. Writing pads, game score cards, tabulating pads, computing pads, etc. 176,038; Nov. 13; Serial No. 179,895; published Aug. 28, 1923.
Twaits, Norma A., Jersey City, N. J. Marmalade and jellies. 175,749; Nov. 13; Serial No. 165,169; published Aug. 28, 1923.
U. S. Bedding Company, Memphis, Tenn. Beds, bed springs, and mattresses. 175,727; Nov. 13; Serial No. 179,246; published Aug. 28, 1923.
U. S. Industrial Chemical Co., Baltimore, Md. Fertilizers. 175,892; Nov. 13; Serial No. 141,284; published Sept. 4, 1923.
U. S. Paper Goods Co., The, Cincinnati, Ohio. Paper bags. 176,062; Nov. 13; Serial No. 180,011; published Sept. 4, 1923.
United Appliance Company, Jackson, Mich. Electric washing machines. 175,769; Nov. 13; Serial No. 177,253; published Sept. 4, 1923.
United States Playing Card Company, The, East Norwood, Cincinnati, Ohio. Playing cards. 175,907–9; Nov. 13; Serial Nos. 178,537–9; published Aug. 21, 1923.
Unné, Ernst Harrogate, York, England. Apparatus or appliance for massaging the teeth and gums. 175,904; Nov. 13; Serial No. 178,152; published Sept. 4, 1923.
Usinga Disc Corporation, Brooklyn, N. Y. Metal disks for recording the human voice for reproduction upon phonographic machines. 175,921; Nov. 13; Serial No. 180,251; published Aug. 7, 1923.
Vacuum Oil Company, New York, N. Y. Lubricating oil. 176,076; Nov. 13; Serial No. 182,079; published Sept. 4, 1923.
Vogt, F. G., & Sons, Inc., Philadelphia, Pa. Lard. 175,790–1; Nov. 13; Serial No. 179,756–7; published Sept. 4, 1923.
Vorgias, Louis, Chicago, Ill. Shoe polish, dressings, and cleaners. 175,881; Nov. 13; Serial No. 180,348; published Aug. 21, 1923.
Wakem, Harold R., doing business as Harold R. Wakem & Co., Chicago, Ill. Radio receiving and radio transmitting sets and the various parts thereof and radio head phones. 175,799; Nov. 13; Serial No. 179,567; published Aug. 21, 1923.
Wallcraft Shirt Co. Inc., New Haven, Conn. Dress, negligee, and work shirts. 175,739; Nov. 13; Serial No. 178,646; published Aug. 28, 1923.
Warner Brothers Company, The, Bridgeport Conn. Bandeaux and brassières. 176,039; Nov. 13; Serial No. 179,903; published Aug. 14, 1923.
Warren Clock Company, Ashland, Mass. Clocks. 175,808; Nov. 13; Serial No. 144,303; published Aug. 7, 1923.
Webb, Thomas J., Company, Chicago, Ill. Coffee. 175,743; Nov. 13; Serial No. 178,787; published Sept. 4, 1923.
Webb, Thomas J., Company, Chicago, Ill. Coffee. 175,744; Nov. 13; Serial No. 178,789; published Sept. 4, 1923.
Weber, David, & Co., Philadelphia, Pa. Corrugated fiber and paper boxes, envelopes, wrappers, etc. 175,885; Nov. 13; Serial No. 180,512; published Sept. 4, 1923.
Weber Levy Company, New York, N. Y. Hosiery, underwear, and sweaters. 175,789; Nov. 13; Serial No. 179,759; published Aug. 28, 1923.
Welton & Company. (See Haskins & Welton, assignors.)
Western Hosiery Company, Chicago, Ill. Gloves of leather, rubber, and fabric and knitted and textile underwear. 175,810; Nov. 13; Serial No. 147,383; published Oct. 17, 1922.
Western Materials Company, Chicago, Ill. High-temperature cement. 175,726; Nov. 13; Serial No. 179,249; published Sept. 4, 1923.
Westfield Manufacturing Company, Westfield, Mass. Bicycles, tricycles, and parts thereof. 175,950; Nov. 13; Serial No. 172,456; published Sept. 4, 1923.
Westlake Chemical Co., Inc., Westlake, La. Fertilizer. 176,080; Nov. 13; Serial No. 182,240; published Sept. 4, 1923.
Wheeler, Osgood Company, The, Tacoma, Wash. Fir doors, moldings, veneered panels, plywood, etc. 175,831; Nov. 13; Serial No. 182,027; published Sept. 4, 1923.
White, Almon J., Carrollton, Mo. Tonic compound for treating worms, etc., in hogs and other livestock. 176,022; Nov. 13; Serial No. 177,459; published July 31, 1923.
White Stokes Co. Inc., Chicago, Ill. Base or filler for candy. 175,737; Nov. 13; Serial No. 178,792; published Sept. 4, 1923.
White & Wyckoff Manufacturing Company, Holyoke, Mass. Papeteries, tablets, writing paper, envelopes. 176,099; Nov. 13.
Whiting & Davis Company, Plainville, Mass. Mesh bags. 175,754; Nov. 13; Serial No. 168,662; published Aug. 7, 1923.
Whitman, Ward & Lee Co., Boston, Mass. Fresh fish which have been subjected to a pickling. 175,856; Nov. 13; Serial No. 176,147; published July 17, 1923.
Willowbrook Chemical Works, Los Angeles, Calif. Lubricating oil. 176,045; Nov. 13; Serial No. 180,459; published Sept. 4, 1923.
Wincroft Stove Works, Middletown, Pa. Gas ranges. 175,847; Nov. 13; Serial No. 180,636; published Sept. 4, 1923.
Wood-Craft Company, St. Paul, Minn. Electric batteries. 176,074; Nov. 13; Serial No. 182,030; published Aug. 21, 1923.
Woodward & Lothrop, Washington, D. C. Women's coats. 176,093; Nov. 13.
Zellerbach Paper Company, San Francisco, Calif. Paper bags. 176,002; Nov. 13; Serial No. 182,433; published Sept. 4, 1923.
Zellerbach Paper Company, San Francisco, Calif. Paper bags. 176,004; Nov. 13; Serial No. 182,455; published Sept. 4, 1923.
Zellerbach Paper Company, San Francisco, Calif. Paper bags. 176,005–7; Nov. 13; Serial Nos. 182,456–8; published Sept. 4, 1923.
Zellerbach Paper Company, San Francisco, Calif. Paper bags. 176,008; Nov. 13; Serial No. 182,460; published Sept. 4, 1923.
Zellerbach Paper Company, San Francisco, Calif. Paper bags. 176,010; Nov. 13; Serial No. 182,459; published Sept. 4, 1923.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Ambrosia Chocolate Cream Company, Chicago, Ill. Ambrosia Chicago Best of All Chocolates. For Chocolate. 26,507; Nov. 13.
Anthony Candy Company, The, Greenville, Ohio. Eye Opener. For Candy. 26,508; Nov. 13.
Aristocrat Products Co., Youngstown, Ohio. Spot Cleaner. For a Compound Used to Clean Carpets, Automobile Covers, Woodwork, Fabrics, and Leather Goods. 26,509; Nov. 13.
Avery, B. F., & Sons, Louisville, Ky. Avery Red Tag Cultivator Sweep. For Cultivator Sweeps. 26,510; Nov. 13.
Brainard, Pearl H., Macomb, Ill. Brainard's Little Brown Jug. For Heat-Insulated Liquid Containers. 26,511; Nov. 13.
Bubb, Geo., & Sons, Williamsport, Pa. Winona. For Pineapple. 26,512; Nov. 13.
Central Brokerage Company, Chicago, Ill. Del-Rose. For Lobsters. 26,513; Nov. 13.
Chicago Beverage Co., Chicago, Ill. Chicago Brand-De Luxe. For Ginger Ale. 26,514; Nov. 13.
Christians, H. C., Co., Chicago, Ill. Hollybrook. For Butter. 26,515; Nov. 13.
Cragin Products Co., Chicago, Ill. Alcolotion. For a Preparation for External Use and Application. 26,517; Nov. 13.
De Rand Company, Inc., St. Louis, Mo. Kiddie-Need Toilet Seat Take It With You. For Containers for a Child's Toilet Seat. 26,518; Nov. 13.
Dixie Paint Company, The, New Orleans, La. Palladium Paints. For Paints. 26,519; Nov. 13.
Fischer, B., & Co., Inc., New York, N. Y. Burro Coffee. For Coffee. 26,520; Nov. 13.
Flexo Company, The, Fredericksburg, Va. Flexo, Bar Belt Dressing, Preservative For All Kinds of Belts. For a Belt Dressing. 26,521; Nov. 13.
Frank, William, New York, N. Y. Antillas. For Canned Lobster. 26,522; Nov. 13.
H. P. Coffee Company, St. Louis, Mo. Trumpet. For Coffee. 26,516; Nov. 13.
Jackson, Adelaide A., and Elizabeth Jones, doing business under the name of A. & E. Jackson, New York, N. Y. Mammy's Delight Southern Beaten Biscuit. For Wrappers for Biscuits. 26,523; Nov. 13.
Kalamazoo Stationery Co., Kalamazoo, Mich. Progress. For Writing Tablets. 26,524; Nov. 13.

Knoxville Mattress Company, Knoxville, Tenn. Sleep Easy Felt Mattress. For Mattresses. 26,525; Nov. 13.
Koffey, T. N., Co., Brooklyn, N. Y. Arabo. For Coffee. 26,526; Nov. 13.
Lewis, Frank P., Cigar Co., Peoria, Ill. Lewis' Single Binder De Luxe. For Cigars. 26,527; Nov. 13.
Lieberman & Star Co., Chicago, Ill. Fashion-Bilt Clothes. For Men's Garments. 26,528; Nov. 13.
Manchester Biscuit Company, Incorporated, Sioux Falls, S. Dak. Golden. For Zwieback. 26,529; Nov. 13.
Marlowe, William Manheim & Son, Corona, N. Y. Flash Light. For Furniture Polish. 26,530; Nov. 13.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Shingleton Bros., Clarksburg, W. Va. Rainbow Brand Creamery Butter. For Butter. 26,531; Nov. 13.
Mihm, Herman, Pittsburgh, Pa. Keystone. For Malt Sirup. 26,532; Nov. 13.
Narbonne, Gardner H., doing business as Narbonne Ranch, Thermal, Calif. Narbonne. For Dates. 26,533; Nov. 13.
Narbonne, Gardner H., doing business as Narbonne Ranch, Thermal, Calif. Mermaid. For Dates. 26,534; Nov. 13.
Noble and Noble, New York, N. Y. Black Sambo. For a Children's Game. 26,535; Nov. 13.
Noble and Noble, New York, N. Y. Cinderella. For a Children's Game. 26,536; Nov. 13.
Noble and Noble, New York, N. Y. Game of Alice in Wonderland. For a Children's Game. 26,537; Nov. 13.
Nothrow Piston Ring Co., Philadelphia, Pa. Nothrow Piston Rings. For Piston Rings. 26,538; Nov. 13.
Pax-American Cross Chemical Co., Inc., Birmingham, Ala. Pax 2 New Life Savers. For a Blood Builder and Nervine and a Healing Extract for Inside Bath. 26,539; Nov. 13.
Schafer Bakery, Inc., Savannah, Ga. Allovit. For Bread. 26,540; Nov. 13.
Shingleton Bros. (See Menasha Printing and Carton Company, assignor.)
Thompson, Gilbert H., Manitowoc, Wis. The Judge. For Cigars. 26,541; Nov. 13.
Tracey, J. Glenn, Baltimore, Md. Wondershine Metal Polish. For a Metal Polish. 26,542; Nov. 13.
Van Camp Sea Food Company, Los Angeles, Calif. All White Meat. For Canned Bonita Fish. 26,543; Nov. 13.
Wisconsin State Canners Co., Pickett, Wis. Wisconsin Brand. For Canned Peas. 26,544; Nov. 13.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Barclay & Co., New York, N. Y. Jabón Reuter. For Toilet Soap. 6,957; Nov. 13.
Bronso Alumina Corporation, The, Buffalo, N. Y. Stop Hunting For That Handle. For Extension Door Handles for Ford Automobiles. 6,958; Nov. 13.
Brown, Benjamin C., doing business as New Orleans Ice Cream Company, New Orleans, La. Brown's Velvet Ice Cream Made By New Orleans Ice Cream Co. For Ice Cream. 6,959; Nov. 13.
Central Wholesale Grocers, Inc., Chicago, Ill. We Buy In Carloads The Gain Is Yours and representation of products in the form of a human figure. For Groceries. 6,960; Nov. 13.
Joannes Brothers Company, Los Angeles, Calif. Mr. Coff E. Bean Says: For Coffee. 6,961; Nov. 13.
Libby, McNeill & Libby, Chicago, Ill. Toy Store. For Canned Goods. 6,962; Nov. 13.
New Orleans Ice Cream Company. (See Brown, Benjamin C.)
"Onyx" Hosiery, Inc., New York, N. Y. If your hands were so tiny that your fingers were no thicker than pins. For Hosiery. 6,963; Nov. 13.
"Onyx" Hosiery, Inc., New York, N. Y. An Important Feature of "Onyx Pointex" Hosiery. For Hosiery. 6,964; Nov. 13.
Palmolive Company, The, Milwaukee, Wis. Reflecting Beauty Secrets of the Past. For Palmolive Soap. 6,965; Nov. 13.
Palmolive Company, The, Milwaukee, Wis. Certainly—Your own mild Palmolive. For Soap. 6,966; Nov. 13.
Roper, Geo. D., Corporation, Rockford, Ill. Roper. For Gas Ranges. 6,967; Nov. 13.
Sealright Co. Inc., Fulton, N. Y. 15¢ in a Sealright Container. For Sealright Paper Boxes. 6,968; Nov. 13.
Sealright Co. Inc., Fulton, N. Y. 10¢ in a Sealright Container. For Sealright Paper Boxes. 6,969; Nov. 13.
Squibb, E. R., & Sons, New York, N. Y. For your Baby's Sake! For Drugs. 6,970; Nov. 13.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abel-Jensen Laboratories, Chicago, Ill. Antiseptic laxative. 183,515; Nov. 13.
Ablett, Robert, & Co., Inc., Whitesboro, N. Y. Knit underwear. 146,750; Nov. 13.
Adams, Albert J., assignor to H. H. Waters, New York, N. Y. Preparation for use as a preventive of rheumatism and for neutralizing uric acid. 168,910; Nov. 13.
Admiral Tire & Rubber Company, The, Coshocton, Ohio. Inner tubes, pneumatic, etc., tires. 183,017; Nov. 13.
Advertoshare Co. (See D'Orio, Julius.)
Agines Brothers, New York, N. Y. Imitation-mink-fur coats. 163,728; Nov. 13.
Akron Grocery Co., The, Akron, Ohio. Coffee, olive oil, and sugar. 180,260; Nov. 13.
Albany Perforated Wrapping Paper Company, Albany, N. Y. Toilet paper. 184,576; Nov. 13.
Alberto Vales Company, New Orleans, La. Vegetable shortening. 185,686; Nov. 13.
American Burtonizing Company and Wallerstein Laboratories, New York, N. Y. Diastatic preparation used for desizing and degumming of fabrics, etc. 183,619; Nov. 13.
American Cotton Oil Company, The, Union Township, near Guttenberg, N. J. Soap stock. 177,466; Nov. 13.
American Cotton Oil Company, The, New York, N. Y. Hard fats and cottonseed oils. 178,425; Nov. 13.
American Printing Company, Fall River, Mass. Cotton piece goods. 185,737; Nov. 13.
Anastopoulos, Gust, San Francisco, Calif. Tomato paste. 162,712; Nov. 13.
Arcady Farms Milling Company, Chicago, Ill. Stock and poultry feeds. 176,056; Nov. 13.
Archbold-Giger & Co., Paterson, N. J. Wheat flour. 181,807; Nov. 13.
Art-Ad Studio, Mansfield, Ohio. Folders, circulars, leaflets, etc., advertisements, advertising and like matter sold to the trade as such. 179,257; Nov. 13.
Atchley, Harrison F., Stockton, Calif. Ointment or salve. 179,347; Nov. 13.
Atkins, Samuel S., Springfield, Ohio. Composition for treating leucorrhea. 183,642; Nov. 13.
Automatic Electrical Devices Company, The, Cincinnati, Ohio. Electric rectifiers and rheostats. 185,403; Nov. 13.
Babcock, A. P., Co., New York, N. Y. Perfume. 183,246; Nov. 13.
Baldwin, Anita M., Santa Anita, Calif. Livestock, including dogs. 177,469; Nov. 13.
Barber, Arthur W., Chazy, N. Y. Butter, raw cream, fresh eggs, etc. 154,118; Nov. 13.
Barlow Brothers, Grand Rapids, Mich. Waste baskets. 185,738; Nov. 13.
Barton, H. H., and Son Co. Inc., Philadelphia, Pa. Abrasive papers or cloths. 168,707; Nov. 13.
Bates, A. J., Company, Webster, Mass. Shoes and parts thereof. 181,472; Nov. 13.
Bazley, Ernest S., doing business as Bazley Markets, Chicago, Ill. Nut oleomargarine. 171,242; Nov. 13.
Beardsley, Robert, doing business as Beardsley Studios, Chicago, Ill. Lighting fixtures. 153,196; Nov. 13.
Beech-Nut Packing Company, Canajoharie, N. Y. Ice cream. 159,687; Nov. 13.
Beesemyer-Waggoner, Inc., Los Angeles, Calif. Canned fruits and vegetables. 185,687–9; Nov. 13.
Bela, Szalai, doing business as "Cito" Gyogyszer es Vegyeszeti Laboratorium, Budapest, Hungary. Medicines used in the treatment of bronchitis, tubercular diseases, etc. 165,663; Nov. 13.
Bennett, R. L., Co., New York, N. Y. Bathing suits and trunks. 155,590; Nov. 13.
Berliner, Edwin E., & Co., New York, N. Y Cotton piece goods. 171,444; Nov. 13.
Bertman, Geo. J., Shoe Co., Inc., Chicago, Ill. Shoes. 177,422; Nov. 13.
Betsy Ross Hair Net Corp., New York, N. Y. Hair nets. 185,509; Nov. 13.
Bettmann-Dunlap Company, The, Cincinnati, Ohio. Leather boots and shoes. 181,004; Nov. 13.
Binghamton Candy Co., Binghamton, N. Y. Candy. 184,318; Nov. 13.
Blackhawk Remedy Co. (See Whitmore, William A.)
Blocki, John, & Son, Inc., Chicago, Ill. Perfumes. 175,062; Nov. 13.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Bonny Sun Hat Co. (See Green, George R.)
Bonyata, Charles E., doing business as The Bonyata Chemical Company, Grinnell, Iowa. Hair-dressing preparation. 183,690; Nov. 13.
Booth, F. E., Co., San Francisco, Calif. Fruit concentrate. 185,690; Nov. 13.
Boot's Pure Drug Co., Limited, Nottingham, England. Preparation for the treatment of syphilis and other spirochetal diseases. 183,552; Nov. 13.
Boright, Thos. A., doing business as Radio Record Publishing Company, Minneapolis, Minn. Magazine. 181,333; Nov. 13.
Boyd-Brenizer Corporation, Wilmington, Del., and Philadelphia, Pa. Hair curlers. 156,349; Nov. 13.
Bright, William M., doing business as La-rite Laboratories, Bloomington, Ill. Preparation for the hair. 182,960; Nov. 13.
Bristol & Barber Co., Inc., New York, N. Y. Phonographs. 163,213; Nov. 13.
Brooks, Alexander, doing business as A. Brooks Company, San Francisco, Calif. Sandwiches. 170,469; Nov. 13.
Brooks, Smith & Cosne, Limited, Philadelphia, Pa. Bituminous coal. 185,329; Nov. 13.
Brooks, William H., San Francisco, Calif. Health foods. 182,231; Nov. 13.
Brown, R. H., & Co. (See Western Wholesale Drug Co.)
Browning and Atkin, San Diego, Calif. Racing programs. 178,549; Nov. 13.
California Food Products Company, Los Angeles, Calif. Gelatin dessert preparation. 182,649; Nov. 13.
California Tanning Company, St. Louis, Mo. Leather. 182,700; Nov. 13.
Calvert Lithographing Co., The, Detroit, Mich. Bond paper for printing purposes. 186,102; Nov. 13.
Cammeyer, New York, N. Y. Leather shoes. 179,710; Nov. 13.
Canuet Frères, Paris, France. Beads and metal spangles made of steel, copper, etc. 184,017; Nov. 13.
Carroll, William, & Company, Inc., New York, N. Y. Hats for men. 182,533; Nov. 13.
Carson Pirie Scott & Co., Chicago, Ill. Shoes. 180,586; Nov. 13.
Case, James L., doing business as Eutaw Chemical Co., Boston, Mass. Preparation for the treatment of toothache. 183,094; Nov. 13.
Chandler and Rudd Company, The, Cleveland, Ohio. Cheese and butter. 146,524; Nov. 13.
Cheery Ola Co., The. (See Hightower, James F.)
Cheney Brothers, South Manchester, Conn. Cravats and neckties. 184,814; Nov. 13.
"Cito" Gyogyszer es Vegyeszeti Laboratorium. (See Bela, Szalai.)
Classy Fabrics Company. (See Yost, Cora.)
Colisan Co. (See Grosse, Friedrich.)
Colorado Condensed Milk Co., Fort Lupton, Colo. Evaporated and condensed milk. 178,492; Nov. 13.
Community Publicity Service, St. Louis, Mo. Calendars. 181,675; Nov. 13.
Continental Roofing & Manufacturing Co., The, Highlandtown, Baltimore, Md. Roofing material. 180,052; Nov. 13.
Dare, Carolyn T., Atlantic City, N. J. Perfume. 183,098; Nov. 13.
Davis & Lamb, Newburyport, Mass. Salted peanuts and peanut butter. 163,382; Nov. 13.
Dawes, John C., Irvington, N. J. Corn remover. 183,332; Nov. 13.
Delbon, Frank G., Brooklyn, N. Y. Leather shoes. 181,591; Nov. 13.
Delmore Manufacturing Co., Inc., New York, N. Y. Motor vehicles. 151,259; Nov. 13.
De Luxe Hosiery Company. (See Smyth, William J.)
Detroit Soda Products Co., Detroit, Mich. Cleaning and washing compound, having water softening properties. 181,737; Nov. 13.
Domino House. (See Sullivan, Marguerite, assignor.)
D'Orio, Julius, doing business as Advertoshare Co., Highgrove, Calif. Checker-game coupon punch board. 170,872; Nov. 13.
Dowd, J. C., & Co. Inc., New York, N. Y. Toilet combs, pincushion holders, and buttonhooks. 183,470; Nov. 13.
Drug Products, Inc. (See Thorburn, Henry C.)
Dunlop Milling Company, The, Clarksville, Tenn. Self-rising flour. 182,740; Nov. 13.
Edwards, Perc, doing business as Standard Engineering & Lubricating Co., New York, N. Y. Water neutralizer, scale remover, and scale preventive for boilers. 182,238; Nov. 13.
Elmer & Amend, New York, N. Y. Antiseptic and healing ointment for eczema, piles, burns, etc. 182,504; Nov. 13.
Electronic Equipment Company. (See Sidney, Charles W.)
Elektrizitatswerk Lonza, Gampel and Basel, Switzerland. Agglomerates of solid aldehyde, solid methyl alcohol, and solid ethyl alcohol. 183,699; Nov. 13.
Elkins Medicine Co., Philadelphia, Pa. Vitamine tonic for the treatment of gland troubles, nervousness, etc. 182,143; Nov. 13.
Enhelder, Jessie J., Fresno, Calif. Compound for treating colds, influenza, etc. 183,057; Nov. 13.
Eutaw Chemical Co. (See Case, James L.)
Fermé, Gabriel, Paris, France. Patent medicine used in the treatment and prophylaxis of cancer. 179,465; Nov. 13.
Fett & Kimmel Co., The, Bluffton, Ohio. Variable condensers. 184,330; Nov. 13.
Filene's, Wm., Sons Company, Boston, Mass. Gloves. 182,337; Nov. 13.
Filene's, Wm., Sons Company, Boston, Mass. Gloves. 182,470; Nov. 13.
Fink, William B., Clarendon, Va. Bread. 180,925; Nov. 13.
Fisher, Nath'l, & Co., New York, N. Y. Boots, shoes, and slippers. 165,490; Nov. 13.
Food Products Ltd., London, England. Meat and milk essence, beverage chocolate, pea soup, etc. 176,821; Nov. 13.
Foote Mineral Co., Philadelphia, Pa. Detector crystals. 185,822; Nov. 13.
Foote Mineral Co., Philadelphia, Pa. Cat whiskers. 185,823; Nov. 13.
Forns & Pla, New York, N. Y. Hosiery and fabric undershirts. 184,662; Nov. 13.
Forshag, C. V., & Co., Franklinton, La. Ointment for the treatment of ringworm, seven-year itch, etc. 183,701; Nov. 13.
Foster Ryan Shoe Co., Philadelphia, Pa. Ladies' shoes. 180,974; Nov. 13.
Franc-Graham Paper Co. Inc., New York, N. Y. Bond paper. 184,787; Nov. 13.
Freedman & Engelman, Fresno, Calif. Fresh grapes. 185,654; Nov. 13.
Furst-McNess Company, Freeport, Ill. Perfume, toilet water, face powder, etc. 183,268; Nov. 13.
General Paint and Varnish Company, Chicago, Ill. Varnishes, stains, and paint enamels. 183,273; Nov. 13.
General Paint and Varnish Company, Chicago, Ill. Liquid, hard, or soft soap. 183,277; Nov. 13.
Germ-O-Salv Company, The, Searcy, Ark. Preparation for the treatment of itch, also for slow-healing and infected sores, etc. 182,342; Nov. 13.
Gilbert Bros. & Co., Inc., Baltimore, Md. Preparation for headache, neuritis, la grippe, etc. 182,511; Nov. 13.
Gilbert Bros. & Co., Inc., Baltimore, Md. Tooth paste and a cream for the skin. 183,372; Nov. 13.
Gilbert Bros. & Co., Inc., Baltimore, Md. Flavoring extracts for foods. 183,374; Nov. 13.
Gilbert Bros. & Co., Inc., Baltimore, Md. Preparation for the treatment of nervous and sick headache, neuralgia, etc. 183,377; Nov. 13.
Gill Brothers Company, Steubenville, Ohio. Kerosene-lamp burners. 183,474; Nov. 13.
Glacier Deposit Laboratories, Inc., Springfield, Minn. Complexion clay. 182,050; Nov. 13.
Glemby's, S., Sons Co., Inc., New York, N. Y. Hair nets. 186,009; Nov. 13.
Goodman, A., & Sons, Inc., New York, N. Y. Alimentary paste products. 169,544; Nov. 13.
Govett, Ernest, Long Island City, N. Y. Insecticides. 183,521; Nov. 13.
Grainola Mfg. Co. (See Shroyer, Jacob L.)
Grasselli Chemical Company, The, Cleveland, Ohio. Zinc oxide. 163,975–6; Nov. 13.
Grasselli Chemical Company, The, Cleveland, Ohio. Zinc oxide. 186,226; Nov. 13.
Green, George R., doing business as Bonny Sun Hat Co., Toledo, Ohio. Sun hats for women and children. 181,525; Nov. 13.
Greene, Tweed & Co., New York, N. Y., and Newark, N. J. Refrigerator latches and levers, ice-house levers, barrel bolts, etc. 185,868; Nov. 13.
Grocers Specialty Co., Los Angeles, Calif. Fruit jellies, vinegar, fruit jams, honey, etc. 181,275; Nov. 13.
Grosse, Friedrich, doing business as Colisan Co., New York, N. Y. Medicinal preparations for the treatment of intestinal auto-intoxication, etc. 182,206; Nov. 13.
H. A. S. Coffee Company. (See Schnittker, Henry A.)
Halsey, Florence I., New York, N. Y. Marmalade. 180,280; Nov. 13.
Hannahsons Shoe Company, The, Haverhill, Mass. Leather and fabric shoes. 180,930; Nov. 13.
Hansen, D. B., & Sons, Chicago, Ill. Candles. 183,972; Nov. 13.
Hawkins & Tipson Ltd., London, England. Rope. 182,538; Nov. 13.
Hedges & Brother, Newark, N. J. Flush valves, urinal valves, urinal spreaders, etc. 178,696; Nov. 13.
Helm, F. L., & Son, San Francisco, Calif. Boots and shoes. 180,429; Nov. 13.
Heller, Elias E., doing business as Heller Drug Company, Baltimore, Md. Liniment. 175,987; Nov. 13.
Hightower, James F., doing business as The Cheery Ola Co., Fort Worth, Tex. Flavoring sirup, ice cream, cakes, etc. 182,585; Nov. 13.
Holtite Manufacturing Company, Baltimore, Md. Rubber heels for shoes. 178,845; Nov. 13.
Horwood, E. H., & Co., Hoboken, N. J., and New York, N. Y. Children's slips. 171,994; Nov. 13.

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Horwood, E. H., & Co., Hoboken, N. J., and New York, N. Y. Underwaist union suits. 171,996; Nov. 13.
Hower, Harry C., Chicago, Ill. Pneumatic tires and tubes. 169,854; Nov. 13.
Hubble, James G., assignor to Pinene Chemical Company, Incorporated, New Orleans, La. Preparation of oil of pine. 181,121; Nov. 13.
Hurley Shoe Co., Rockland, Mass. Shoes. 181,487; Nov. 13.
Hy-Pure Laboratories, Cincinnati, Ohio. Powdered alum, boric acid, powdered borax, camphorated oil, etc. 183,115; Nov. 13.
Indian Head Shoe Co., Marlboro, Mass. Misses' and children's leather shoes and leather soles for shoes. 164,502; Nov. 13.
International Company, The, Baltimore, Md. Prepared, powdered, and skimmed milk for bakers' and confectioners' use. 159,319; Nov. 13.
International Company, The, Baltimore, Md. Food-flavoring extracts, mincemeat, cocoa, etc. 175,016; Nov. 13.
Iowa City Canning Co., Iowa City, Iowa. Canned corn. 183,710; Nov. 13.
Ivins', J. S., Son, Inc., Philadelphia, Pa. Cookies, cakes, and crackers. 181,750; Nov. 13.
Jacobs & Thatcher Co., Brooklyn, N. Y. Ladies' shoes. 138,498; Nov. 13.
Jansen & Pretzfeld, Inc., New York, N. Y. Silks in the piece. 164,645; Nov. 13.
Japanese Perfume Co., New York, N. Y. Perfume. 182,660; Nov. 13.
Jefferson, Ida B., Longview, Tex. Liniment for rheumatism or sore joints, corns, etc. 165,083; Nov. 13.
Kala Company, The. (See Lowe, Willis H.)
Kaumally-Wick Corporation, Highland, Ill. Leather shoes. 178,391; Nov. 13.
Kellum Company, The, Kansas City, Mo. Coffee. 184,135; Nov. 13.
Kiddyall Manufacturing Company, Brooklyn, N. Y. Outer play suits for boys. 184,863; Nov. 13.
Kimball, C. M., Company, Winthrop, Mass. Metal, silver, and stove polishes. 153,003; Nov. 13.
Kimball, C. M., Company, Winthrop, Mass. Silver polish. 181,191; Nov. 13.
Kimball, C. M., Company, Winthrop, Mass. Stove polish. 181,192; Nov. 13.
King Milling Co., Lowell, Mich. Wheat flour. 182,422; Nov. 13.
Kops Bros., New York, N. Y. Corsets, brassières, and underwear. 174,247; Nov. 13.
Kreider, John C., doing business as White Rock Liniment Company, Rohrestown, Pa. Liniment. 182,710; Nov. 13.
Kunditz, Theodor, Company, The, Cleveland, Ohio. Phonograph cabinets, dower and cedar chests, and seats. 178,929; Nov. 13.
Kutner-Goldstein Co., San Francisco, Calif. Sulphur. 183,304; Nov. 13.
Kwush-Ru Company, Los Angeles, Calif. Perfume and incense. 169,486; Nov. 13.
La Croix, John D., Vincennes, Ind. Powder and preparation for the hands. 184,408; Nov. 13.
La Crosse Rubber Mills Co., La Crosse, Wis. Rubber heels for shoes, rubber soled and heeled shoes, and leather shoes. 177,850; Nov. 13.
Landauer & Co. Inc., Milwaukee, Wis. Men's and boys' work shirts. 184,552; Nov. 13.
Langdon, Maurice J., Boston, Mass. Toilet preparations. 182,474; Nov. 13.
Lanoil System Ltd., New York, N. Y. Preparations for the hair, hair-waving fluids, etc. 174,903; Nov. 13.
La-rite Laboratories. (See Bright, William M.)
Laundry Age Publishing Co., Inc., New York, N. Y. Periodical. 152,131; Nov. 13.
Lawrence Chemical Company, Atlanta, Ga. Proprietary preparation used in the treatment of pyorrhea or Riggs' disease. 183,389; Nov. 13.
Le Boeuf Fountain Pen Company, Inc., Springfield, Mass. Fountain pens. 184,672; Nov. 13.
Leys, Henriette, Paris, France. Skin cream. 168,582; Nov. 13.
Libby, Wm. A., Milwaukee, assignor to Libby Chemical Company, West Allis, Wis. Medicated tablets and capsules. 173,839; Nov. 13.
Lillie Mill Company, Franklin, Tenn. Wheat flour. 182,759; Nov. 13.
Lilly, Eli, and Company, Indianapolis, Ind. Toilet powder. 183,579; Nov. 13.
Lindsay Farm Bureau Fruit Association, Lindsay, Calif. Fresh citrous fruits. 185,713; Nov. 13.
Linitane Company, The, Syracuse, N. Y. Externally-applied preparation for rheumatism, sprains, etc. 183,751; Nov. 13.
Longbottom, Chas. H., New York, N. Y. Pipes and cigar holders. 179,612; Nov. 13.
Louis Allis Company, The, Milwaukee, Wis. Electric motors, generators, rotary converters, etc. 183,790; Nov. 13.
Lowe, Willis H., doing business as The Kala Company, Cambridge, Mass. Beauty clays. 180,135; Nov. 13.
Lowrey, Augustus, Okmulgee, Okla. Metal, pottery, and glass polishing compounds. 169,723; Nov. 13.
Lucas, Robert M., Chicago, Ill. Paints or cements. 168,113–15; Nov. 13.
Lunn & Sweet Incorporated, Auburn, Me. Shoes. 182,594–6; Nov. 13.
McCaw, Stevenson & Orr, Ltd., Belfast, Ireland. Adhesive cements for uniting various materials and articles. 141,922; Nov. 13.
McGibbon, Brownell, doing business as B. McGibbon & Bro., New York, N. Y. Hops. 183,660; Nov. 13.
MacLean Drug Company, Chicago, Ill. Fountain pens, penholders, lead pencils, etc. 178,758; Nov. 13.
Marine Oil Company, Ltd., New Orleans, La. Cup and axle grease. 166,386; Nov. 13.
Marle Engineering Company, Orange, N. J. Transformers. 184,252; Nov. 13.
Melnick, Isadore A., Los Angeles, Calif. Remedy for stomach disorders and constipation. 183,488; Nov. 13.
Michelin Tire Company, Milltown, N. J. Automobile tires. 184,413; Nov. 13.
Miller, Alton L., doing business as Charles N. Miller Co., Boston, Mass. Candies. 162,561; Nov. 13.
Miller, Charles N., Co. (See Miller, Alton L.)
Miller, I., & Sons, Inc., Brooklyn, N. Y. Shoes, slippers, and boots. 182,001; Nov. 13.
Miller, Pauline, doing business as Pauline Miller Co., San Francisco, Calif. Ladies' hats. 180,442; Nov. 13.
Milwaukee Rolling Mill Company, Greenfield, Wis. Sheet steel. 185,874; Nov. 13.
Minty. (See Palmers, Limited.)
Model Brassiere Co. Inc., New York, N. Y. Brassières and garter brassières. 181,695; Nov. 13.
Montgomery Ward & Co., Chicago, Ill. Magazine. 183,078; Nov. 13.
Moore & Co. Inc., Worcester, Mass. Hand soap. 176,907; Nov. 13.
Mupu Citrus Association, Santa Paula, Calif. Fresh citrous fruits. 182,170; Nov. 13.
Muralo Company, Inc., The, New Brighton, N. Y. Calcimines. 183,397; Nov. 13.
Muralo Company, Inc., The, New Brighton, N. Y. Calcimines. 183,399; Nov. 13.
Namco Products Corporation, New York, N. Y. Hair nets. 185,308; Nov. 13.
Nathan, Joseph, & Co., Limited, London, England. Infants' and invalids' food. 174,587; Nov. 13.
National Packing Corporation, Ogden, Utah. Canned vegetables, tomato purée, and tomato catchup. 180,880; Nov. 13.
National Tube Company, Pittsburgh, Pa. Metal pipe couplings, metal pipes, tubes, and casings. 184,415; Nov. 13.
Nemo Hat Company, New York, N. Y. Ladies', misses', and children's hats and caps. 181,536; Nov. 13.
New Castle Leather Co. Inc., New York, N. Y. Leather. 184,037; Nov. 13.
Nicholson's Raincoat Co., Limited, St. Albans, England. Overcoats and suits. 172,006; Nov. 13.
Nix Produce Company, Hastings, Fla. Potatoes. 183,884; Nov. 13.
Noll, Albert, doing business as The Noll Company, Cambridge, Mass. Shampoo. 183,757; Nov. 13.
North Pacific Mortgage Company, Seattle, Wash. Fresh apples. 185,668; Nov. 13.
Northern Paper Mills, Green Bay, Wis. Toilet paper. 184,359; Nov. 13.
Northwestern Bakers & Confectioners Co., Minneapolis, Minn. Acetic acid, fruit butters, butter flavoring, cake mix, etc. 161,938; Nov. 13.
Osborne Fruit & Vegetable Company, Fullerton, Calif. Fresh vegetables. 185,669; May 13.
P. G. Atlantic Toy Mfg. Co., New York, N. Y. Toy animals. 180,808; Nov. 13.
Pacific Food Products Co., Portland, Oreg. Canned fruits and berries. 185,610; Nov. 13.
Paddon, Roland I., Chicago, Ill. Shampoo. 183,120; Nov. 13.
Palmers, Limited, doing business as Minty, Montreal, Quebec, Canada. Soaps and shaving creams. 184,291; Nov. 13.
Peak, William C., Chicago, Ill. Series of books in a course of dancing instructions. 170,210; Nov. 13.
Pease & Dwyer Co., Memphis, Tenn. Cattle and poultry feed. 156,058; Nov. 13.
Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Pillowcases. 185,671; Nov. 13.
Pfaffmann Egg Noodle Company, The, Cleveland, Ohio. Noodles, vermicelli, and similar paste products. 160,633; Nov. 13.
Physicians Electronic Supply Co., Los Angeles, Calif. Electrical appliances and attachments thereto. 184,622; Nov. 13.
Pickett, John C., doing business as John C. Pickett & Co., Somerville, Mass. Facial clay, cleansing and tissue crème. 183,083; Nov. 13.
Pinene Chemical Company. (See Hubble, James G., assignor.)
Pioneer Products Co., The, Dayton, Ohio. Soap. 185,034; Nov. 13.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Piver, L. T., Inc., Wilmington, Del., and New York, N. Y. Toilet soaps. 184,421; Nov. 13.
Pokodot Cereal Company, Fargo, N. Dak. Cereal breakfast food. 181,309; Nov. 13.
Poly-naise Company, Watertown, N. Y. Combination of catchup, tomatoes, and mayonnaise. 178,061; Nov. 13.
Portland Flour Mills Co., Portland, Oreg. Wheat flour. 182,177–8; Nov. 13.
Portland Flour Mills Co., Portland, Oreg. Wheat flour. 182,607–8; Nov. 13.
Protex Chemical Co., Everett, Pa. Fire-extinguishing chemical compound. 183,888; Nov. 13.
Prym, William, Company, Limited, The, Stolberg, Germany. Bone stilettos, hooks and eyes, snap fasteners, etc. 148,614; Nov. 13.
Prym, William, Company, Limited, The, Stolberg, Germany. Bone stilettos, hooks and eyes, corset eyes, etc. 168,431; Nov. 13.
Quaker Oats Company, The, Chicago, Ill. Corn meal, prepared dietetic flour, pearl barley, hominy grits, etc. 181,646; Nov. 13.
Radio Record Publishing Company. (See Boright, Thos. A.)
Radwaner, I. L., Seed Company. (See Radway, Frederick S.)
Radway, Frederick S., doing business as I. L. Radwaner Seed Company, New York, N. Y. Clover and field seeds. 182,261; Nov. 13.
Reach, Abraham L., doing business as A. L. Reach Textile Co., New York, N. Y. Bed comforts. 185,795; Nov. 13.
Reid, Murdoch & Co., Chicago, Ill. Canned fruits, preserved fruits, and canned vegetables, etc. 165,818; Nov. 13.
Resetar Bros., Watsonville, Calif. Fresh apples. 185,675; Nov. 13.
Richard Hudnut, New York, N. Y. Perfumes, toilet water, vanishing cream, face powder, etc. 183,744; Nov. 13.
Roberts, Tom H., Reigate, England. Chemical substances used in the manufactures, anticorrosives, and drug for vulcanization of rubber. 183,760; Nov. 13.
Rogers, John W., doing business as Sanateva Research Co., Washington, D. C. Medicine used as an antiseptic and mouth wash. 186,858; Nov. 13.
Roman Inc., Boston, Mass. Shampoo oil. 182,674; Nov. 13.
Ropp, Eugène, Beaume-les-Dames, France. Pipes, cigar and cigarette holders. 180,498; Nov. 13.
Rowsey, J. Louis, Olive Hill, Ky. Preparation for the treatment of tuberculosis, asthma, and hay fever. 165,036; Nov. 13.
Royal Worcester Corset Company, Worcester, Mass. Corsets, corset waists, brassières, etc. 179,744; Nov. 13.
Rub-No-More Company, The, Fort Wayne, Ind. Cleanser. 182,772; Nov. 13.
Russell Manufacturing Co., The, Middletown, Conn. Brake lining. 157,007; Nov. 13.
Sanateva Research Co. (See Rogers, John W.)
San Juan Islands Cannery, Spokane, Wash. Canned peas. 181,911; Nov. 13.
Schnittker, Henry A., doing business as H. A. S. Coffee Company, St. Louis, Mo. Coffee. 181,618–19; Nov. 13.
Schnittker, Henry A., doing business as H. A. S. Coffee Company, St. Louis, Mo. Coffee. 181,621; Nov. 13.
Schroyer, Howard R., assignor to The Travel-Right Co., Chicago, Ill. Metal garment-holding frames. 182,318; Nov. 13.
Scot Knit Hosiery Co., Harrisburg, Pa. Hosiery. 169,652; Nov. 13.
Scowcroft, John, & Sons Company, Ogden, Utah. Salad dressing, salad and olive oil, vinegar, etc. 182,014; Nov. 13.
Shearer & McCarthy Corp., The, Camden, N. J. Artificial flowers. 184,214; Nov. 13.
Shrage, Max, doing business as Shrage & Pines, New York, N. Y. Blouses, undershirts, and pyjamas. 162,353; Nov. 13.
Shroyer, Jacob L., doing business as Grainola Mfg. Co., Chicago, Ill. Cereal food drink. 156,117; Nov. 13.
Sidenberg, G., & Co., New York, N. Y. Cotton piece goods. 109,931; Nov. 13.
Sidney, Charles W., doing business as Electronic Equipment Company, Jacksonville, Fla. Electronic medical apparatus. 184,173; Nov. 13.
Sklarew, Bernard, New York, N. Y. Brassières. 182,680; Nov. 13.
Smith & Dove Manufacturing Co., Andover, Mass. Cotton thread. 179,231; Nov. 13.
Smyth, William J., doing business as De Luxe Hosiery Company, Chicago, Ill. Hosiery. 177,113; Nov. 13.
Société Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Liquids, powders, and pastes for cleaning felt, fabrics, hats, etc. 118,614; Nov. 13.
Societe Anonyme des Laboratoires Innoxa, Paris, France. Medicated soap. 181,354; Nov. 13.
Societe Guerlain, Paris, France. Perfumes. 183,765; Nov. 13.
Societe Guerlain, Paris, France. Perfumes. 183,767; Nov. 13.
Societe Guerlain, Paris, France. Perfumes. 183,770–1; Nov. 13.
Societe Guerlain, Paris, France. Lip sticks. 183,772; Nov. 13.
Societe Guerlain, Paris, France. Perfumes. 183,773–8; Nov. 13.
Solidified Naphtha Corporation, The, Chicago, Ill. Preparation for the same use to which soaps, cleaning fluids, washing powders, etc., are put. 182,273; Nov. 13.
Southern Yarn Exchange, Baltimore, Md. Art needlework. 181,150; Nov. 13.
Southern Yarn Exchange, Baltimore, Md. Art needlework. 181,152; Nov. 13.
Sowers and Gough, Hartford City, Ind. Salve for acute colds, bronchitis, influenza, etc. 158,839; Nov. 13.
Spalding, A. G., & Bros., New York, N. Y. Golf clubs. 184,527; Nov. 13.
Special Paper Mfg. Co., New York, N. Y. Prepared tracing paper. 186,030–1; Nov. 13.
Sperekas, John, Cincinnati, Ohio. Confection. 160,514; Nov. 13.
Standard Engineering & Lubricating Co. (See Edwards, Perc.)
Standard Felt Company, West Alhambra, Calif. Rugs, carpets, floor and door mats, etc. 159,627; Nov. 13.
Standard Growers Exchange, Orlando, Fla. Fresh fruits and vegetables. 169,334; Nov. 13.
Starry, Young & Way, Exeter, Calif. Fresh grapes. 185,725; Nov. 13.
Stein, S., & Company, New York, N. Y. Woolen cloth in the piece. 184,190; Nov. 13.
Sternberger & Sheaman, New York, N. Y. Ladies' and misses' hats. 181,574; Nov. 13.
Stuarts & Jacks, Limited, Musselburgh, Scotland. Twines for fishing nets. 178,301; Nov. 13.
Sullivan, Marguerite, assignor to E. J. Reefer and M. Sullivan, trading as Domino House, Philadelphia, Pa. Preparation for removing freckles. 183,175; Nov. 13.
Sullivan, Marguerite, assignor to E. J. Reefer and M. Sullivan, trading as Domino House, Philadelphia, Pa. Preparation for removing wrinkles. 183,176; Nov. 13.
Sullivan, Marguerite, assignor to E. J. Reefer and M. Sullivan, doing business as Domino House, Philadelphia, Pa. Hand lotion. 183,418; Nov. 13.
Sun Maid Raisin Growers, Fresno, Calif. Raisins. 171,108; Nov. 13.
Tell City Creamery Company, Tell City, Ind. Butter. 180,950; Nov. 13.
Tennessee Biscuit Co., Nashville, Tenn. Candy. 183,951; Nov. 13.
Teuscher & Son Machinery Supply Co., St. Louis, Mo. Automobile fan belts. 163,553; Nov. 13.
Thorburn, Henry C., doing business as Drug Products, Inc., Atlanta, Ga. Pharmaceutical preparation. 185,193; Nov. 13.
Tierney, Laurence E., Fuel Company, Bluefield, W. Va. Coal. 184,194; Nov. 13.
Tipton Fruit Growers Assn., Tipton, Calif. Fresh grapes. 185,731; Nov. 13.
Toch Brothers, assignors to Toch Brothers, Incorporated, New York, N. Y. Ready-mixed paints and paint enamels. 161,590–1; Nov. 13.
Toch Brothers, Incorporated. (See Toch Brothers, assignors.)
Travel-Right Co., The. (See Schroyer, Howard R., assignor.)
Tri-State Vegi Feed Co., Cincinnati, Ohio. Dairy and horse feed. 182,451; Nov. 13.
Tropical Date Company, The, Thermal, Calif. Dates. 185,681; Nov. 13.
Tyler Chemical Co., Inc., Pawtucket, R. I. Gelatin preparation for making desserts. 182,553; Nov. 13.
U. S. Pure Drug Laboratories, Cincinnati, Ohio. Powdered alum, boric acid, powdered borax, camphorated oil, etc. 183,130; Nov. 13.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Yarns. 176,377; Nov. 13.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Hand-knitting wool yarns. 176,381; Nov. 13.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Crocheted and knitted slippers and shoes, dresses, suits, etc. 184,699; Nov. 13.
Universal Remedies Company, San Francisco, Calif. Stomach tonic. 183,426; Nov. 13.
Valley Dairy Products Company, Appleton, Wis. Butter. 180,674; Nov. 13.
Vegetable Exchange of California, Inc., San Francisco, Calif. Fresh asparagus. 185,637; Nov. 13.
Wabash Baking Powder Co., Wabash, Ind. Gelatin dessert. 182,631; Nov. 13.
Warner, Phil, & Son, also doing business as Phil Warner, Los Angeles, Calif. Fresh fruits and vegetables. 183,510; Nov. 13.
Waters, Henry H. (See Adams, Albert J., assignor.)
Wescoe Laboratories, Atlantic City, N. J. Remedies for cough-producing affections and colds. 182,633; Nov. 13.

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Western Coil & Electrical Co., Racine, Wis. Wireless receiving sets. 185,394; Nov. 13.
Western Wholesale Drug Co., also doing business as R. H. Brown & Co., Los Angeles, Calif. Ointment or salve for sunburn, scalds, cuts, etc. 182,635; Nov. 13.
Weyer, George H., St. Joseph, Mo. Perfumes, toilet waters, face creams, etc. 183,181; Nov. 13.
White Products Company, Chicago, Ill. Radiator caps. 146,186; Nov. 13.
White Rock Liniment Company. (See Kreider, John C.)
Whitmore, William A., doing business as Blackhawk Remedy Co., Baltimore, Md. Liniment for treatment of headache, neuralgia, etc. 185,887; Nov. 13.
Whittemore Brothers Corporation, Cambridge, Mass. Preparation for cleaning velvet, silk, etc. 184,273; Nov. 13.
Whitworth & Mitchell, Limited, Manchester, England. Cotton piece goods. 167,859; Nov. 13.
Willis, Norton & Co., North Topeka, Kans. Wheat flour. 177,884; Nov. 13.
Wilson Instrument & Specialty Company, Passaic, N. J. Welding preparation. 183,429; Nov. 13.
Wilton Manufacturing Company, Inc., New York, N. Y. Cotton piece goods. 185,774–5; Nov. 13.
Windsor Polish Co., Windsor, Vt. Polishes for painted, varnished, etc., surfaces. 184,883; Nov. 13.
Wix, Ernest T., doing business as Wixated Iron Co., Sioux City, Iowa. General tonics. 166,729; Nov. 13.
Wixated Iron Co. (See Wix, Ernest T.)
Wolford, John C., Newark, Ohio. Soap. 183,461; Nov. 13.
Woodruff, George W., doing business as Woodruff Manufacturing Co., Winder, Ga. Empty bags or nets for containing laundry. 179,388; Nov. 13.
Worthen, C. B., Co., Cleveland, Ohio. Tables and other forms of supports for holding or supporting electric heating appliances. 165,220; Nov. 13.
Yost, Cora, doing business as Classy Fabrics Company, Philadelphia, Pa. Knit underwear. 181,712; Nov. 13.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Charcoal. New Jersey Charcoal Co. 175,803; Nov. 13; Serial No. 179,379; published Sept. 4, 1923.
Coal, Blacksmith. Dickinson Fuel Company. 176,048; Nov. 13; Serial No. 181,253; published Sept. 4, 1923.

CLASS 2.

Bags. H. J. Dudley. 175,878; Nov. 13; Serial No. 180,056; published Sept. 4, 1923.
Bags, aprons, News and coal. Allied Belting Company. 175,872; Nov. 13; Serial No. 179,128; published Sept. 4, 1923.
Bags, clothes protectors, clothespin aprons, Shoe. Al-Lon Manufacturing Company. 175,887; Nov. 13; Serial No. 180,047; published Sept. 4, 1923.
Bags, Shoe and skate. James W. Brine Company. 176,001; Nov. 13; Serial No. 172,729; published Sept. 4, 1923.
Boxes, envelopes, wrappers, etc., Corrugated fiber and paper. David Weber & Co. 175,885; Nov. 13; Serial No. 180,512; published Sept. 4, 1923.
Cylinders, bottles, flasks, etc. Mannesmannröhren-Werke. 175,994; Nov. 13; Serial No. 163,688; published Sept. 4, 1923.
Packages, Tin, metal, and paper. Acme Can Company. 176,044; Nov. 13; Serial No. 180,203; published Sept. 4, 1923.
Paper bags. Crown Willamette Paper Company. 176,003; Nov. 13; Serial No. 182,401; published Sept. 4, 1923.
Paper bags. U. S. Paper Goods Co. 176,062; Nov. 13; Serial No. 180,911; published Sept. 4, 1923.
Paper bags. Zellerbach Paper Company. 176,002; Nov. 13; Serial No. 182,433; published Sept. 4, 1923.
Paper bags. Zellerbach Paper Company. 176,004; Nov. 13; Serial No. 182,455; published Sept. 4, 1923.
Paper bags. Zellerbach Paper Company. 176,005–7; Nov. 13; Serial Nos. 182,456–8; published Sept. 4, 1923.
Paper bags. Zellerbach Paper Company. 176,008; Nov. 13; Serial No. 182,460; published Sept. 4, 1923.
Paper bags. Zellerbach Paper Company. 176,010; Nov. 13; Serial No. 182,459; published Sept. 4, 1923.
Vessels, Temperature-retaining. American Thermos Bottle Company. 176,064; Nov. 13; Serial No. 181,102; published Sept. 4, 1923.

CLASS 4.

Chests, Cedar. Hill-Hoel Mfg. Co. 175,833; Nov. 13; Serial No. 181,944; published Aug. 21, 1923.
Paper, sharpening stones, etc., Sand, emery, and garnet. Marshall-Wells Company. 175,906; Nov. 13; Serial No. 178,532; published Aug. 21, 1923.
Polish, dressings, and cleaners, Shoe. L. Vorgias. 175,881; Nov. 13; Serial No. 180,348; published Aug. 21, 1923.
Polish, Stove. Gabel Brothers. 175,987; Nov. 13; Serial No. 150,895; published July 31, 1923.
Preparation for cleaning artificial dentures. Holland Specialty Company. 175,937; Nov. 13; Serial No. 174,647; published July 24, 1923.
Preparation for cleaning clothes and fabrics. Mueller & Goetz. 175,884; Nov. 13; Serial No. 180,452; published Aug. 21, 1923.
Soap. Haskins Brothers & Company. 175,780; Nov. 13; Serial No. 178,609; published Aug. 21, 1923.
Soap. Haskins Bros. & Company. 175,874; Nov. 13; Serial No. 179,201; published Sept. 4, 1923.
Soap and soap mixtures. Magnus Chemical Company. 175,886; Nov. 13; Serial No. 180,543; published Aug. 21, 1923.
Soap compound. C. E. Ewing. 175,883; Nov. 13; Serial No. 180,424; published Aug. 21, 1923.
Soap for shaving. Colgate & Company. 175,899; Nov. 13; Serial No. 176,250; published Aug. 21, 1923.
Soap, Laundry. Haskins Brothers & Company. 175,895; Nov. 13; Serial No. 175,194; published Aug. 21, 1923.
Soap, Toilet. Empire Soap Company. 175,900–1; Nov. 13; Serial Nos. 176,889–90; published Aug. 28, 1923.
Soaps. Lightfoot Schultz Company. 175,871; Nov. 13; Serial No. 179,107; published Aug. 21, 1923.
Soaps, shaving soaps, shaving creams, metal polish, etc. W. H. Johnson. 175,746; Nov. 13; Serial No. 162,928; published Aug. 8, 1922.
Washing powder and soap. Poland Soap Works. 175,992; Nov. 13; Serial No. 161,792; published Sept. 4, 1923.
Wheels and disks, Grinding. J. C. Schmidt. 175,882; Nov. 13; Serial No. 180,391; published Aug. 21, 1923.

CLASS 5.

Adhesives. W. R. Long. 176,072; Nov. 13; Serial No. 181,289; published Sept. 4, 1923.
Adhesives. M'Caw, Stevenson & Orr, Ltd. 175,996; Nov. 13; Serial No. 164,181; published Sept. 4, 1923.
Cement. T. Taylor Buckley, Inc. 176,066; Nov. 13; Serial No. 181,240; published Sept. 4, 1923.
Compositions for use as adhesives. Capital Rodewite Company. 175,888; Nov. 13; Serial No. 180,653; published Sept. 4, 1923.
Wax, Sealing. Keferstein, Starr & Co. 176,061; Nov. 13; Serial No. 180,800; published Sept. 4, 1923.

CLASS 6.

Balm. Bobwhite Chemical Corporation. 176,091; Nov. 13.
Medical compounds. H. F. Callow. 175,905; Nov. 13; Serial No. 178,426; published Aug. 21, 1923.
Medicated wax for treatment of pyorrhea. Drs. Brown and Brown. 176,021; Nov. 13; Serial No. 177,269; published July 31, 1923.
Preparation for the treatment of catarrh. N. Lemoine. 175,898; Nov. 13; Serial No. 176,084; published Aug. 14, 1923.
Preparation for the treatment of piles, Medicinal. N. Lemoine. 175,897; Nov. 13; Serial No. 176,083; published Aug. 14, 1923.
Preparation for the treatment of syphilis. American European Service Bureau. 176,095; Nov. 13.
Tonic, antiseptic tablets, and blood pills, Dog and puppy. H. B. Furgerson, M. D. 176,052; Nov. 13; Serial No. 180,597; published Aug. 7, 1923.
Tonic compound for treating worms, etc., in hogs and other livestock. A. J. White. 176,022; Nov. 13; Serial No. 177,459; published July 31, 1923.

CLASS 7.

Cords, twines, ropes, and lines. Granite Cordage Company. 175,873; Nov. 13; Serial No. 179,196; published Sept. 4, 1923.

CLASS 9.

Matches. Jonkoping och Vulcans Tandsticksfabriksaktiebolag. 175,972; Nov. 13; Serial No. 140,435; published Aug. 28, 1923.
Matches. Jonkoping och Vulcans Tandsticksfabriksaktiebolag. 175,973; Nov. 13; Serial No. 140,437; published Sept. 4, 1923.
Matches. Jonkoping och Vulcans Tandsticksfabriksaktiebolag. 175,974; Nov. 13; Serial No. 140,439; published Sept. 4, 1923.
Matches. Jonkoping och Vulcans Tandsticksfabriksaktiebolag. 175,975; Nov. 13; Serial No. 140,444; published Sept. 4, 1923.

Matches. Jonkoping och Vulcans Tandsticksfabriksaktiebolag. 175,976–7; Nov. 13; Serial Nos. 140,446–7; published Sept. 4, 1923.
Matches. Jonkoping och Vulcans Tandsticksfabriksaktiebolag. 175,978; Nov. 13; Serial No. 140,449; published Sept. 4, 1923.
Matches. Jonkoping och Vulcans Tandsticksfabriksaktiebolag. 175,979; Nov. 13; Serial No. 140,452; published Sept. 4, 1923.
Matches. Jonkoping och Vulcans Tandsticksfabriksaktiebolag. 175,980; Nov. 13; Serial No. 140,450; published Sept. 4, 1923.
Matches. Jonkoping och Vulcans Tandsticksfabriksaktiebolag. 175,981–2; Nov. 13; Serial Nos. 140,453–4; published Sept. 4, 1923.
Matches. Jonkoping och Vulcans Tandsticksfabriksaktiebolag. 175,983–8; Nov. 13; Serial Nos. 140,456–8; published Sept. 4, 1923.

CLASS 10.

Fertilizer. Westlake Chemical Co. 176,080; Nov. 13; Serial No. 182,240; published Sept. 4, 1923.
Fertilizers. U. S. Industrial Chemical Co. 175,892; Nov. 13; Serial No. 141,284; published Sept. 4, 1923.

CLASS 11.

Ink, Writing. Dello Ink Corp. 175,740–1; Nov. 13; Serial Nos. 178,658–9; published Aug. 21, 1923.
Inks, Writing. C. G. Hickok. 175,865; Nov. 13; Serial No. 175,312; published Aug. 21, 1923.

CLASS 12.

Brick, fire-brick cement, and fire-clay tile, Fire. A. P. Green Fire Brick Co. 176,100; Nov. 13.
Cement, Fire-resisting. Jointless Fire-Brick Co. 176,070; Nov. 13; Serial No. 181,568; published Sept. 4, 1923.
Cement, High-temperature. Western Materials Company. 175,726; Nov. 13; Serial No. 179,249; published Sept. 4, 1923.
Cements and protective plaster coatings, Refractory. Furnaseal Mfg. Co. 175,802; Nov. 13; Serial No. 179,405; published Sept. 4, 1923.
Doors, moldings, veneered panels, plywood, etc., Fir. Wheeler, Osgood Company. 175,831; Nov. 13; Serial No. 182,027; published Sept. 4, 1923.
Lumber, laths, molding, sidings. Pelican Bay Lumber Company. 175,922; Nov. 13; Serial No. 180,078; published Sept. 4, 1923.
Pipe coating, acidproof tank lining, etc. Standard Asphalt & Refining Company. 175,805; Nov. 13; Serial No. 131,987; published Sept. 4, 1923.
Posts and lumber, Cedar. Red Cedar Post & Lumber Company. 176,086; Nov. 13.
Roofing, Asphalt. Continental Roofing & Manufacturing Co. 175,876; Nov. 13; Serial No. 180,050; published Sept. 4, 1923.
Roofing, Green mineral surfaced. Continental Roofing & Manufacturing Co. 175,923; Nov. 13; Serial No. 180,049; published Sept. 4, 1923.
Roofing material. Continental Roofing & Manufacturing Co. 175,877; Nov. 13; Serial No. 180,051; published Sept. 4, 1923.
Roofings, roofing and building papers, etc., Prepared. Montgomery Ward & Co. 176,009; Nov. 13; Serial No. 183,079; published Sept. 4, 1923.
Roofings, shingles, and strip shingles, Bituminized. Ruberoid Co. 176,011; Nov. 13; Serial No. 182,721; published Sept. 4, 1923.
Window and door sills, lintels, arches, etc. A. Moses. 176,056; Nov. 13; Serial No. 182,109; published Sept. 4, 1923.

CLASS 13.

Curtain rods, Metallic flat. C. J. Alden. 176,020; Nov. 13; Serial No. 176,867; published Sept. 4, 1923.
Door-knob fasteners. Gripx, Manufacturing Co. 175,944; Nov. 13; Serial No. 173,079; published Aug. 28, 1923.
Shower and shampoo fixtures, curtain rods, etc. M. Behrer. 175,809; Nov. 13; Serial No. 144,958; published Aug. 28, 1923.
Valves for mains and pipes, Metal. Bethlehem Steel Company. 176,037; Nov. 13; Serial No. 179,845; published Sept. 4, 1923.

CLASS 14.

Alloy. Marret, Bonnin, Lebel & Guieu. 176,042; Nov. 13; Serial No. 180,018; published Sept. 4, 1923.

CLASS 15.

Gasoline and lubricating oils. Spears & Riddle Co. 175,967; Nov. 13; Serial No. 174,756; published Sept. 4, 1923.
Gasoline, kerosene, petroleum, distillates, etc. Hercules Gasoline Co. 175,990; Nov. 13; Serial No. 169,130; published Sept. 4, 1923.
Kerosene and lubricating oils. Gilmore Petroleum Company. 175,957; Nov. 13; Serial No. 166,558; published Sept. 4, 1923.
Liquid fuel. Petroleum Service Corporation. 176,000; Nov. 13; Serial No. 170,753; published Sept. 4, 1923.
Lubricants. A. N. Bresler. 176,050; Nov. 13; Serial No. 180,959; published Sept. 4, 1923.
Oil, Lubricating. Vacuum Oil Company. 176,076; Nov. 13; Serial No. 182,079; published Sept. 4, 1923.
Oil, Lubricating. Willowbrook Chemical Works. 176,045; Nov. 13; Serial No. 180,459; published Sept. 4, 1923.
Oils, Lubricating. Midland Refining Company. 176,078; Nov. 13; Serial No. 182,216; published Sept. 4, 1923.
Oils, Lubricating. Standard Oil Company (Incorporated in New Jersey.) 176,079; Nov. 13; Serial No. 182,386; published Sept. 4, 1923.

CLASS 16.

Carbon black. Godfrey L. Cabot, Inc. 176,012; Nov. 13; Serial No. 176,068; published Sept. 4, 1923.
Colors ground in oil, oil paints, enamel paint, etc. F. W. Geller, Inc. 176,024; Nov. 13; Serial No. 177,732; published Sept. 4, 1923.
Finishing or polishing material. Surfix Chemical Co. 176,040; Nov. 13; Serial No. 180,904; published Sept. 4, 1923.
Paint, Luminous. Gray & Bretey Co. 176,031; Nov. 13; Serial No. 179,199; published Sept. 4, 1923.
Paints and paint enamels. C. Drabek. 176,060; Nov. 13; Serial No. 182,502; published Sept. 4, 1923.
Paints, Ready-mixed. Benjamin Moore & Co. 176,047; Nov. 13; Serial No. 180,803; published Sept. 4, 1923.
Paints, varnishes, dry colors, etc., Ready-mixed. M. L. Detourbe. 176,068; Nov. 13; Serial No. 181,683; published Sept. 4, 1923.
Paints, varnishes, dry colors, etc., Ready-mixed. M. L. Detourbe. 176,075; Nov. 13; Serial No. 181,684; published Sept. 4, 1923.
Paints, varnishes, paint enamels, etc., Ready-mixed. C. Drabek. 175,956; Nov. 13; Serial No. 165,859; published Sept. 4, 1923.
Paints, varnishes, stains, colors, etc. Assets Producing Company. 176,040; Nov. 13; Serial No. 179,921; published Sept. 4, 1923.
Paris white. Talntor Company. 176,013; Nov. 13; Serial No. 176,315; published Sept. 4, 1923.
Plastered walls, Flat white coatings for use on. Toch Brothers, Incorporated. 175,953; Nov. 13; Serial No. 183,128; published Sept. 4, 1923.
Wall finishes. Hockaday Company, The. 176,041; Nov. 13; Serial No. 179,939; published Sept. 4, 1923.

CLASS 19.

Bicycles, tricycles, and parts thereof. Westfield Manufacturing Company. 175,950; Nov. 13; Serial No. 172,456; published Sept. 4, 1923.

CLASS 21.

Adhesive tape for electrical purposes. Baker, Hamilton and Pacific Company. 175,762; Nov. 13; Serial No. 170,355; published Aug. 7, 1923.
Automobile timers. Rodefeld Mfg. Co. 176,077; Nov. 13; Serial No. 182,184; published Aug. 21, 1923.
Batteries, Electric. Wood-Craft Company. 176,074; Nov. 13; Serial No. 182,030; published Aug. 21, 1923.
Battery separators, Electric. Indianapolis Manufacturing Company. 175,893; Nov. 13; Serial No. 151,581; published Sept. 4, 1923.
Contact points. Fansteel Products Company. 176,071; Nov. 13; Serial No. 181,520; published Aug. 21, 1923.
Electric appliances. Branford Electric Company. 175,949; Nov. 13; Serial No. 172,634; published Aug. 21, 1923.
Electric conduits, Fittings for. M. W. Johnson. 175,828; Nov. 13; Serial No. 182,152; published Aug. 21, 1923.
Electric conduits, Fittings for. M. W. Johnson. 176,073; Nov. 13; Serial No. 182,054; published Aug. 21, 1923.
Electric generators, dynamos, motors, electric ignition apparatus, etc. Owen-Dyneto Corporation. 176,069; Nov. 13; Serial No. 181,611; published Sept. 4, 1923.
Electric heating apparatus for heating rivets, slugs, etc. Humil Corporation. 176,067; Nov. 13; Serial No. 181,190; published Aug. 21, 1923.
Electric resistance materials. Electrical Alloy Company. 175,997; Nov. 13; Serial No. 165,365; published Sept. 4, 1923.
Engraving machines, Electric. Engravograph Corporation. 176,065; Nov. 13; Serial No. 181,261; published Sept. 4, 1923.
Lamp sockets, fuse sockets and switches, Incandescent. R. Eberhardt. 176,063; Nov. 13; Serial No. 180,923; published Sept. 4, 1923.
Lamps, Portable electric. Bussemann Manufacturing Company. 175,845; Nov. 13; Serial No. 180,746; published Aug. 21, 1923.
Lightning arresters and rods, tips, and connectors therefor for trolley poles, etc. Mannesmannröhren-Werke. 175,747; Nov. 13; Serial No. 163,693; published Aug. 7, 1923.
Motors and parts, controllers and parts, electric lamps, etc., Electric. Singer Manufacturing Company. 175,840; Nov. 13; Serial No. 181,703; published Sept. 4, 1923.
Motors and parts thereof, Electric. H. B. Sherman Manufacturing Co. 175,842; Nov. 13; Serial No. 181,223; published Sept. 4, 1923.
Outlet boxes. Electric Outlet Company. 175,943; Nov. 13; Serial No. 173,129; published Aug. 7, 1923.
Phonograph and radio receiving sets, loud speakers, etc., Combination. Walter Lytton, Inc. 175,999; Nov. 13; Serial No. 169,814; published Sept. 4, 1923.

Radio apparatus, Parts for. Alden Manufacturing Company. 175,843; Nov. 13; Serial No. 180,953; published Sept. 4, 1923.
Radio apparatus, radio receiving sets, Variometers, variocouplers, and transformers for. General Radio Corporation. 175,919; Nov. 13; Serial No. 180,279; published Aug. 7, 1923.
Radio lightning arresters. High Tension Supplies Co. 175,890; Nov. 13; Serial No. 180,763; published Aug. 21, 1923.
Radio receiving and transmitting sets, various parts thereof, and radio head phones. H. R. Wakem. 175,799; Nov. 13; Serial No. 179,567; published Aug. 21, 1923.
Radio receiving sets. Jackson & Finkenaur. 175,755; Nov. 13; Serial No. 168,925; published Aug. 21, 1923.
Radio receiving sets and parts therefor. Colin B. Kennedy Company. 175,889; Nov. 13; Serial No. 180,706; published Aug. 21, 1923.
Radio receivers, head sets, loud speakers, etc. G. K. Thompson. 175,797; Nov. 13; Serial No. 179,630; published Aug. 21, 1923.
Radio telegraph and telephone instruments and sets and parts therefor, etc. Atwater Kent Manufacturing Company. 175,913; Nov. 13; Serial No. 180,410; published Aug. 21, 1923.
Radio transmitting and receiving sets and parts thereof, etc. Continental Radio & Electric Corporation. 175,896; Nov. 13; Serial No. 175,712; published Sept. 4, 1923.
Radio transmitting and receiving sets, Assembled. Aeolian Company. 175,751; Nov. 13; Serial No. 166,124; published Aug. 21, 1923.
Radio use, Electrical connector clips and clamps for amateur. H. M. Hill. 175,738; Nov. 13; Serial No. 178,612; published Sept. 4, 1923.
Reels of electric connecting conductors. Grigsby-Grunow-Hinds Co. 175,993; Nov. 13; Serial No. 162,991; published Sept. 4, 1923.
Sweepers, Electric suction. Hoover Company. 175,867; Nov. 13; Serial No. 175,244; published Aug. 7, 1923.
Telephone head sets. Radioceive Manufacturing Company. 175,995; Nov. 13; Serial No. 164,075; published Sept. 4, 1923.
Toy transformers. Lionel Corporation. 175,891; Nov. 13; Serial No. 129,731; published Sept. 4, 1923.
Valve receiving and transmitting sets, etc. Dale, Forty & Co. 175,866; Nov. 13; Serial No. 175,304; published Aug. 21, 1923.
Washing machines, Electric. United Appliance Company. 175,769; Nov. 13; Serial No. 177,253; published Sept. 4, 1923.

CLASS 22.

Cards, Playing. United States Playing Card Company. 175,907–9; Nov. 13; Serial Nos. 178,537–9; published Aug. 21, 1923.

CLASS 23.

Condensers, heat exchangers, and dephlegmators, Oil. C. H. Leach Company. 175,958; Nov. 13; Serial No. 169,719; published Aug. 21, 1923.
Cutting and planing machine, Earth. E. G. Carr. 175,823; Nov. 13; Serial No. 162,333; published Aug. 28, 1923.
Engine governors. Hydro Governor Co. 175,821; Nov. 13; Serial No. 161,882; published Aug. 28, 1923.
Gears and shafts. American Gear Company. 175,850; Nov. 13; Serial No. 180,461; published Aug. 28, 1923.
Gears, Metallic and nonmetallic. R. N. Brodie. 175,788; Nov. 13; Serial No. 179,764; published Aug. 28, 1923.
Locomotives, Auxiliary engines for. Franklin Railway Supply Company. 175,753; Nov. 13; Serial No. 166,825; published July 3, 1923.
Masts and parts thereof for the hoisting of concrete and construction materials, concrete chutes, and hoisting buckets, Steel. Insley Manufacturing Company. 176,098; Nov. 13.
Oil purifiers or oil separators, Centrifugal. Koefoed, Hauberg, Marstrand & Helweg Aktieselskabet Titan. 175,870; Nov. 13; Serial No. 177,042; published Aug. 28, 1923.
Razors and blades, safety-razor-blade-stropping machines, Safety. Newmarket Trading Company. 175,970; Nov. 13; Serial No. 161,332; published Oct. 31, 1922.
Screw drivers. Dolman Manufacturing Company. 176,082; Nov. 13.
Tools and appliances for automotive vehicles, etc. L. Schwab. 175,756; Nov. 13; Serial No. 168,857; published Aug. 28, 1923.
Tractors, cultivators, and sulky plows. Central Tractor Company. 176,046; Nov. 13; Serial No. 180,748; published Sept. 4, 1923.
Water wheels. J. B. Campbell. 176,043; Nov. 13; Serial No. 180,046; published Sept. 4, 1923.

CLASS 24.

Driers, Clothes. Hill Clothes Dryer Co. 175,918; Nov. 13; Serial No. 180,282; published Sept. 4, 1923.
Laundry bags. Fry Bros. Company. 175,920; Nov. 13; Serial No. 180,277; published Sept. 4, 1923.
Washboilers. R. Israel. 175,774; Nov. 13; Serial No. 177,439; published Sept. 4, 1923.
Washing machines, Electrically-driven laundry. Landers, Frary & Clark. 175,917; Nov. 13; Serial No. 180,376; published Sept. 4, 1923.

CLASS 26.

Hydrometers. G. I. Stadeker. 175,841; Nov. 13; Serial No. 181,423; published Aug. 28, 1923.
Levels. Stanley Works. 175,758; Nov. 13; Serial No. 172,296; published Aug. 28, 1923.
Picture apparatus, Cabinet motion-. I. Serrurier. 176,030; Nov. 13; Serial No. 179,228; published Sept. 4, 1923.
Picture films, Motion-. Radiograms, Inc. 175,955; Nov. 13; Serial No. 166,150; published Sept. 4, 1923.
Squares, family weighing scales, shingling-hatchet gauges, etc., Carpenters' steel. Baker, Hamilton & Pacific Company. 175,763; Nov. 13; Serial No. 170,350; published Aug. 28, 1923.

CLASS 27.

Clocks. Warren Clock Company. 175,808; Nov. 13; Serial No. 144,303; published Aug. 7, 1923.
Watchcases. Joseph Fabys & Company. 175,858; Nov. 13; Serial No. 175,777; published Aug. 28, 1923.
Watches. J. Daving. 175,844; Nov. 13; Serial No. 180,754; published Aug. 21, 1923.
Watches. Stein & Ellbogen Company. 175,811; Nov. 13; Serial No. 150,779; published Aug. 21, 1923.

CLASS 28.

Bags, Mesh. Whiting & Davis Company. 175,754; Nov. 13; Serial No. 168,662; published Aug. 7, 1923.
Chains, fobs, pendants, bracelets, etc. Fr. Speidel. 175,875; Nov. 13; Serial No. 179,285; published Aug. 7, 1923.
Chains, fobs, pendants, bracelets, etc. Fr. Speidel. 175,903; Nov. 13; Serial No. 177,703; published Aug. 7, 1923.
Jewelry, tableware, etc. Ralph J. Gillett Importing Company. 175,813; Nov. 13; Serial No. 154,589; published Aug. 21, 1923.
Pearls, pearl necklaces, and pearl-mounted jewelry. E. C. Shapiro. 175,941; Nov. 13; Serial No. 173,444; published Aug. 21, 1923.
Precious metals, Articles made of or plated with. W. R. Elfers. 175,728; Nov. 13; Serial No. 179,139; published Aug. 21, 1923.
Rings, Finger. H. E. Kaplan. 175,930; Nov. 13; Serial No. 180,436; published Aug. 28, 1923.
Silver-plated hollow ware. Farber Brothers. 175,868; Nov. 13; Serial No. 175,191; published Sept. 4, 1923.

CLASS 29.

Brushes, Polishing. S. C. Johnson & Son. 176,053; Nov. 13; Serial No. 182,101; published Sept. 4, 1923.

CLASS 32.

Beds, bed springs, and mattresses. U. S. Bedding Company. 175,727; Nov. 13; Serial No. 179,246; published Aug. 28, 1923.
Cabinets, Filing. Columbia Steel Equipment Company. 176,090; Nov. 13.
Chests, Cedar. Lane Co. 175,916; Nov. 13; Serial No. 180,377; published Aug. 28, 1923.
Mattresses. Marshall Ventilated Mattress Co. 175,886; Nov. 13; Serial No. 181,838; published Aug. 28, 1923.
Phonograph-record-display stands. Musical Products Distributing Co. 175,846; Nov. 13; Serial No. 180,715; published Aug. 28, 1923.
Towel cabinets. J. N. Borroughs. 175,784; Nov. 13; Serial No. 178,023; published Aug. 28, 1923.

CLASS 34.

Boilers. Aird-Don Co. 175,725; Nov. 13; Serial No. 179,254; published Sept. 4, 1923.
Ovens, Baking. Baker-Perkins Manufacturing Corporation. 175,773; Nov. 13; Serial No. 177,581; published Aug. 21, 1923.
Ranges, Gas. Wincroft Stove Works. 175,847; Nov. 13; Serial No. 180,636; published Sept. 4, 1923.
Stoves and ranges, Coal and gas. Perfect Stove & Manufacturing Co. 175,859; Nov. 13; Serial No. 175,732; published Sept. 4, 1923.
Stoves and ranges, etc., Coal, wood, and gas cooking and heating. Keeley Stove Company. 175,783; Nov. 13; Serial No. 178,392; published Sept. 4, 1923.

CLASS 35.

Brake lining. Manhattan Rubber Mfg. Co. 175,998; Nov. 13; Serial No. 166,839; published Sept. 4, 1923.
Hose, Linen fire. Wm. & Chas. Beck, Inc. 175,851; Nov. 13; Serial No. 176,874; published Aug. 7, 1923.
Piston rings. A. B. Chance. 175,894; Nov. 13; Serial No. 153,441; published Sept. 4, 1923.
Piston rings. Spyroseal Manufacturing Company. 175,807; Nov. 13; Serial No. 143,017; published Sept. 4, 1923.
Tire casings. Republic Rubber Company. 175,966; Nov. 13; Serial No. 173,300; published Sept. 4, 1923.
Tires. Miller Rubber Company. 175,838; Nov. 13; Serial No. 181,762; published Sept. 4, 1923.

Tires, inner tubes, tire casings, and shoes, and repair parts, Vehicle. Ideal Tire and Rubber Co. 175,911; Nov. 13; Serial No. 155,967; published Feb. 21, 1922.

CLASS 36.

Cornets. Lyon & Healy. 175,820; Nov. 13; Serial No. 161,325; published Aug. 7, 1923.
Disks for recording the human voice, Metal. Usinga Disc Corporation. 175,921; Nov. 13; Serial No. 180,251; published Aug. 7, 1923.
Harmonicas, Mouth. M. Hohner. 175,786; Nov. 13; Serial No. 179,794; published Aug. 21, 1923.
Mouthpieces of reed wind instruments. Naujoks-McLaughlin. 175,792; Nov. 13; Serial No. 179,052; published Sept. 4, 1923.
Music rolls, Perforated. N. Cardilli. 175,848; Nov. 13; Serial No. 180,584; published Aug. 21, 1923.
Musical instruments and supplies therefor. Circle Music Publishing Company. 175,770; Nov. 13; Serial No. 177,216; published Aug. 21, 1923.
Musical instruments when not in use, Racks for supporting. Saxrac Company. 175,764; Nov. 13; Serial No. 169,530; published Aug. 21, 1923.
Musical instruments, Wind. Besson & Co. Ltd. 175,902; Nov. 13; Serial No. 177,066; published Aug. 21, 1923.
Phonographs. Chautauqua Phonograph Company. 175,750; Nov. 13; Serial No. 165,580; published Aug. 21, 1923.
Phonographs. E. L. Corle. 175,748; Nov. 13; Serial No. 164,157; published Aug. 21, 1923.
Phonographs. Plaza Music Company. 175,730; Nov. 13; Serial No. 179,110; published Aug. 21, 1923.
Phonographs, parts thereof, and phonograph records. F. F. Nelson. 175,925; Nov. 13; Serial No. 179,948; published Aug. 21, 1923.
Pianofortes, pianos, and phonographs. Jacob Doll & Sons. 175,729; Nov. 13; Serial No. 179,138; published Aug. 21, 1923.
Pianofortes, pianos, and phonographs. Frederick Piano Company. 175,798; Nov. 13; Serial No. 179,594; published Aug. 21, 1923.
Pianos, phonographs, and records, Player. Starr Piano Company. 175,806; Nov. 13; Serial No. 135,764; published Aug. 7, 1923.

CLASS 37.

Book and catalogue covers and decorative effects. David J. Molloy Company. 176,033; Nov. 13; Serial No. 179,378; published Aug. 28, 1923.
Bristol. Index. American Writing Paper Company. 176,104; Nov. 13.
Paper. Chicago Paper Company. 175,963; Nov. 13; Serial No. 171,723; published Aug. 28, 1923.
Paper, correspondence envelopes, etc., Writing. Mid West Paper & Envelope Co. 175,991; Nov. 13; Serial No. 168,118; published Aug. 28, 1923.
Paper, etc., Wrapping, manila, document, print, and other. Central Michigan Paper Company. 176,051; Nov. 13; Serial No. 181,245; published Aug. 28, 1923.
Paper, Ledger. H. P. Andrews Paper Company. 175,989; Nov. 13; Serial No. 167,760; published Aug. 28, 1923.
Paper, Writing and printing. American Writing Paper Company. 176,084; Nov. 13.
Papeteries, tablets, writing paper, envelopes. White & Wyckoff Manufacturing Company. 176,099; Nov. 13.
Pencils, Lead and carpenters'. Baker, Hamilton and Pacific Company. 175,959; Nov. 13; Serial No. 170,349; published Aug. 28, 1923.
Tablets, etc., Writing. Osborn Paper Company. 175,965; Nov. 13; Serial No. 173,295; published Aug. 28, 1923.
Writing pads, game score cards, tabulating and computing pads, etc. R. J. Turner. 176,038; Nov. 13; Serial No. 179,895; published Aug. 28, 1923.

CLASS 38.

Booklets or pamphlets. American Radio Relay League, Inc. 175,771; Nov. 13; Serial No. 177,159; published Aug. 21, 1923.
Books and pamphlets. Life Planning Institute. 175,814; Nov. 13; Serial No. 157,069; published Aug. 21, 1923.
Cards, Prayer and motto. W. G. Bate. 175,781; Nov. 13; Serial No. 178,544; published Aug. 21, 1923.
Correspondence courses in applied arts, etc. H. W. Lamb. 175,936; Nov. 13; Serial No. 174,742; published Aug. 28, 1923.
Directories published semiannually. Tel-U-Where Co. of America. 175,742; Nov. 13; Serial No. 178,693; published Aug. 28, 1923.
Magazine, Monthly. Keystone Publishing Co. 175,804; Nov. 13; Serial No. 179,374; published Aug. 28, 1923.
Magazine, Monthly. National Retail Hardware Association. 175,915; Nov. 13; Serial No. 180,383; published Sept. 4, 1923.
Newspaper, Column of news in its. Times Printing Company of Seattle. 175,864; Nov. 13; Serial No. 175,416; published July 31, 1923.
Newspaper, Daily. A. H. Belo & Company. 175,932–4; Nov. 13; Serial Nos. 174,880–2; published Aug. 21, 1923.
Newspaper, Semiweekly agricultural. A. H. Belo & Company. 175,951; Nov. 13; Serial No. 174,883; published Aug. 21, 1923.
Photo prints. National Process Company. 175,816; Nov. 13; Serial No. 158,487; published July 31, 1923.
Printed advertising matter. F. Romer. 175,880; Nov. 13; Serial 180,239; published Aug. 21, 1923.
Publication, Bimonthly and annual. International Trade Developer, Inc. 175,855; Nov. 13; Serial No. 176,187; published Aug. 21, 1923.
Publication, Periodical. Norristown Herald Printing and Publishing Co. 175,792; Nov. 13; Serial No. 179,738; published Aug. 28, 1923.
Publication, Weekly. Pathfinder Publishing Co. 175,914; Nov. 13; Serial No. 180,387; published Aug. 21, 1923.
Publications. D. Loeser. 175,819; Nov. 13; Serial No. 160,196; published Aug. 21, 1923.

CLASS 39.

Apparel, Infants' and children's wearing. R. M. Raphael. 175,961; Nov. 13; Serial No. 171,434; published Aug. 28, 1923.
Apparel, Infants' and young children's. S. Rouff. 175,935; Nov. 13; Serial No. 174,864; published Aug. 28, 1923.
Bandeaux and brassières. Warner Brothers Company. 176,039; Nov. 13; Serial No. 179,903; published Aug. 14, 1923.
Bibs. G. Carlson. 175,731; Nov. 13; Serial No. 179,029; published Aug. 28, 1923.
Bloomers, Baby. Rubberized Sheeting & Specialty Co. 176,094; Nov. 13.
Boot and shoe tips and counters. Geo. E. Keith Company. 176,023; Nov. 13; Serial No. 177,675; published July 24, 1923.
Boots and shoes. W. L. Douglas Shoe Company. 176,015; Nov. 13; Serial No. 176,331; published May 22, 1923.
Brassières. Chas. R. De Bevoise Co. 175,954; Nov. 13; Serial No. 175,010; published Aug. 7, 1923.
Brassières. Ida Munzer, Inc. 176,017; Nov. 13; Serial No. 176,804; published July 31, 1923.
Brassières and bloomers and a union garment. S. M. Aminoff. 176,089; Nov. 13.
Caps. Cooper, Davidson & Klein Cap Company. 175,962; Nov. 13; Serial No. 171,486; published Sept. 4, 1923.
Caps and hats for men and women. Crofut & Knapp Co. 176,014; Nov. 13; Serial No. 176,329; published July 31, 1923.
Coats, cloaks, suits, etc., Women's, children's, and infants'. Salt's Textile Manufacturing Company. 175,971; Nov. 13; Serial No. 160,371; published Sept. 4, 1923.
Coats, Women's. Woodward & Lothrop. 176,093; Nov. 13.
Coats, wraps, dresses, etc. Salt's Textile Manufacturing Company. 176,085; Nov. 13.
Corsets. Jackson Corset Company. 176,029; Nov. 13; Serial No. 178,723; published Sept. 4, 1923.
Corsets, corset waists, brassières, bandeaux, etc. Frolaset Corset Co. 176,019; Nov. 13; Serial No. 177,180; published Aug. 28, 1923.
Corsets, waist corsets, brassières, etc. C. Munter. 175,931; Nov. 13; Serial No. 179,813; published Aug. 28, 1923.
Dresses. Barmon Brothers Company. 176,092; Nov. 13.
Dresses and hosiery, Women's. Associated Merchandising Corporation. 175,964; Nov. 13; Serial No. 172,194; published Aug. 21, 1923.
Dresses, Misses'. Dolly Madison Dresses, Inc. 175,815; Nov. 13; Serial No. 157,760; published Aug. 21, 1923.
Dresses, Textile cotton. Lancaster Mills. 175,947; Nov. 13; Serial No. 172,747; published Aug. 28, 1923.
Garments for female wear, Outer. Horatio Simon & Co. 175,942; Nov. 13; Serial No. 173,339; published Aug. 28, 1923.
Garments, Under wash. N. Erlanger, Blumgart & Co. 176,083; Nov. 13.
Garters, waist belts, and suspenders. Knothe Brothers Co. 176,026; Nov. 13; Serial No. 177,915; published July 31, 1923.
Gloves, gauntlets, and mittens, Leather. Joseph N. Eisendrath Company. 175,968; Nov. 13; Serial No. 173,477; published July 24, 1923.
Gloves, underwear. Western Hosiery Company. 175,810; Nov. 13; Serial No. 147,383; published Oct. 17, 1922.
Gowns, Ladies' dressing. Goldman Costume Company. 175,988; Nov. 13; Serial No. 155,342; published Aug. 7, 1923.
Hats and bonnets, Ladies'. Davidson Brothers Company. 176,028; Nov. 13; Serial No. 178,895; published July 31, 1923.
Hats and caps. Fashion Hat Company. 176,032; Nov. 13; Serial No. 179,298; published Aug. 14, 1923.
Hats, Ladies'. H. L. Distillator & Son. 176,036; Nov. 13; Serial No. 179,785; published Aug. 14, 1923.
Hosiery. Berendsen Silk Knitting Co. 175,795–6; Nov. 13; Serial No. 179,646–7; published Aug. 28, 1923.
Hosiery. E. Crutcher. 175,733; Nov. 13; Serial No. 178,958; published July 10, 1923.
Hosiery. Paramount Knitting Company. 175,948; Nov. 13; Serial No. 172,650; published Aug. 28, 1923.
Hosiery. Scot Knit Hosiery Company. 175,768; Nov. 13; Serial No. 177,053; published Aug. 21, 1923.

Hosiery. Tex-Craft Company. 175,924; Nov. 13; Serial No. 179,974; published Aug. 28, 1923.
Hosiery, underwear, sweaters. Weber Levy Company. 175,789; Nov. 13; Serial No. 179,759; published Aug. 28, 1923.
Knitted jackets, coats, sweaters, and golf stockings. A. Bergman. 175,927; Nov. 13; Serial No. 179,923; published Aug. 28, 1923.
Middy blouses and waists. Morris & Company. 176,081; Nov. 13.
Overalls and overall coats. Doe River Overall Company. 175,853; Nov. 13; Serial No. 176,608; published Aug. 28, 1923.
Overcoats, raincoats, smoking jackets, etc. Heidelberg, Wolff & Co. 175,793; Nov. 13; Serial No. 179,723; published Aug. 28, 1923.
Rubber outsoles, heels, insoles, and half soles. Clark Rubber Mfg. Co. 176,035; Nov. 13; Serial No. 179,715; published Sept. 4, 1923.
Shirts. Wallcraft Shirt Co. 175,739; Nov. 13; Serial No. 178,646; published Aug. 28, 1923.
Shirts, Dress. J. D. Silverstein & Sons, Inc. 175,862–3; Nov. 13; Serial Nos. 175,441–2; published Aug. 28, 1923.
Shirts, Men's dress and negligee. M. Kolber. 175,735; Nov. 13; Serial No. 178,926; published Aug. 28, 1923.
Shoes. Hutzler Brothers Co. 176,025; Nov. 13; Serial No. 177,848; published Aug. 28, 1923.
Shoes, Nurses'. Morgan Shoe Company. 176,016; Nov. 13; Serial No. 176,801; published July 31, 1923.
Stockings and socks. John M. Haley & Co. 175,926; Nov. 13; Serial No. 179,938; published Aug. 28, 1923.
Storm-protective covering. Ombrelo, Inc. 176,088; Nov. 13.
Suits and overcoats, Men's. T. Schubb. 176,103; Nov. 13.
Sweaters, Boys' and men's. Greater Manhattan Knitting Mills, Inc. 175,969; Nov. 13; Serial No. 162,545; published Sept. 4, 1923.
Sweaters, sport coats, knitted toques, etc., Knitted. Meyer-Wise & Kaichen Company. 175,765; Nov. 13; Serial No. 177,045; published Aug. 28, 1923.
Ties and cravats. Friedman Bros. & Sons Neckwear Co. 175,854; Nov. 13; Serial No. 176,402; published Aug. 21, 1923.
Trousers, Men's. Hollander-Lewis Co. 175,939; Nov. 13; Serial No. 174,447; published Aug. 21, 1923.
Underwear. Marble Mills, Inc. 175,929; Nov. 13; Serial No. 179,874; published Aug. 28, 1923.
Underwear and hosiery. Orent's Department Store, Inc. 175,761; Nov. 13; Serial No. 171,136; published Aug. 28, 1923.
Underwear and sweaters, Knitted and nainsook. O. L. Stanard Dry Goods Co. 175,782; Nov. 13; Serial No. 178,412; published Aug. 28, 1923.
Underwear, Knitted and textile. Manny-Rielly Co. 175,767; Nov. 13; Serial No. 177,135; published Aug. 28, 1923.
Underwear, Men's. Abraham & Straus, Inc. 175,945; Nov. 13; Serial No. 172,815; published Aug. 28, 1923.
Underwear, Women's muslin. Gutman Bros. 175,861; Nov. 13; Serial No. 175,489; published Aug. 28, 1923.

CLASS 40.

Pins. William Prym Company. 175,857; Nov. 13; Serial No. 175,997; published Aug. 28, 1923.

CLASS 42.

Bedspreads. Sorrick-Caylor Company. 176,059; Nov. 13; Serial No. 182,366; published Sept. 4, 1923.
Cotton piece goods. Brune, Pottberg & Co. 176,055; Nov. 13; Serial No. 182,202; published Sept. 4, 1923.
Cotton piece goods. Brune, Pottberg & Co. 176,057–8; Nov. 13; Serial Nos. 182,291–2; published Sept. 4, 1923.
Cotton piece goods, Mercerized. Consolidated Textile Corporation. 176,054; Nov. 13; Serial No. 181,559; published Sept. 4, 1923.
Cotton piece goods, sheets, and pillowcases. Cabarrus Cotton Mills. 176,096; Nov. 13.
Dry goods. Farley Harvey Company. 175,952; Nov. 13; Serial No. 183,204; published Sept. 4, 1923.
Hair nets. Fulghum & Company. 176,101; Nov. 13.

CLASS 44.

Arch supports, foot and heel cushions, foot pads, etc. Thompson-Barlow Company. 175,839; Nov. 13; Serial No. 181,707; published Aug. 28, 1923.
Dental alloy, gold, and silver. Elm Refining Company. 175,910; Nov. 13; Serial No. 178,717; published Sept. 4, 1923.
Instruments for aiding the hearing. F. Charles Rein & Son, America, Inc. 175,879; Nov. 13; Serial No. 180,080; published Sept. 4, 1923.
Manicure sets. Art Ornament Co. 176,034; Nov. 13; Serial No. 179,450; published Sept. 4, 1923.
Surgical dressing, Chemical tissue for use as a. Haskins & Welton. 175,986; Nov. 13; Serial No. 144,720; published Sept. 4, 1923.
Teeth and gums, Apparatus or appliance for massaging the. E. Unné. 175,904; Nov. 13; Serial No. 178,152; published Sept. 4, 1923.

CLASS 46.

Biscuits and crackers. National Biscuit Company. 176,097; Nov. 13.
Bread. California Bakery Company. 175,812; Nov. 13; Serial No. 153,076; published Aug. 14, 1923.
Candy. Cardinet Candy Company. 175,835; Nov. 13; Serial No. 181,878; published Sept. 4, 1923.
Candy. Charter Chocolate Company. 175,837; Nov. 13; Serial No. 181,816; published Sept. 4, 1923.
Candy. De Klyn Candy Company. 175,849; Nov. 13; Serial No. 180,530; published Aug. 28, 1923.
Candy. A. D. Flynn. 176,027; Nov. 13; Serial No. 178,602; published July 17, 1923.
Candy, Frozen Fruit, Inc. 175,817; Nov. 13; Serial No. 159,088; published Aug. 14, 1923.
Candy. Maison Blanche Co. 175,946; Nov. 13; Serial No. 172,753; published Aug. 28, 1923.
Candy, Base or filler for. White Stokes Co. 175,737; Nov. 13; Serial No. 178,792; published Sept. 4, 1923.
Canned citrous fruits, grapefruit. Florida Citrus Exchange. 175,912; Nov. 13; Serial No. 179,862; published Sept. 4, 1923.
Canned goods, dried fruits and vegetables, etc. Comly, Flanigen Company. 175,745; Nov. 13; Serial No. 162,870; published Aug. 28, 1923.
Canned peas, corn, tomatoes, and pineapple. Cincinnati Wholesale Grocery Company. 175,776; Nov. 13; Serial No. 177,361; published Sept. 4, 1923.
Canned sauerkraut. Bellevue Kraut & Pickling Co. 175,829; Nov. 13; Serial No. 182,125; published Sept. 4, 1923.
Canned vegetables. San Jose Canning Co. 175,801; Nov. 13; Serial No. 179,484; published Sept. 4, 1923.
Chocolates and candy. E. Greenfield's Sons. 175,787; Nov. 13; Serial No. 179,790; published Sept. 4, 1923.
Chop-suey sauce. L. C. Chan & Company. 175,757; Nov. 13; Serial No. 168,753; published Sept. 4, 1923.
Coffee. Fitch Company. 175,938; Nov. 13; Serial No. 174,565; published Sept. 4, 1923.
Coffee. Thomas J. Webb Company. 175,743; Nov. 13; Serial No. 178,787; published Sept. 4, 1923.
Coffee. Thomas J. Webb Company. 175,744; Nov. 13; Serial No. 178,789; published Sept. 4, 1923.
Cones, Cake. Acme Cone Co. 175,869; Nov. 13; Serial No. 175,177; published Aug. 28, 1923.
Confection. S. N. Sperber. 175,818; Nov. 13; Serial No. 159,533; published Sept. 4, 1923.
Confection, Frozen. C. B. Bemis. 175,736; Nov. 13; Serial No. 178,891; published Aug. 28, 1923.
Fish which have been subjected to a pickling solution, Fresh. Whitman, Ward & Lee Co. 175,856; Nov. 13; Serial No. 176,147; published July 17, 1923.
Fruit, grapefruit, Fresh citrous. W. P. Peyton Fruit Co. 175,772; Nov. 13; Serial No. 177,863; published Aug. 14, 1923.
Fruits, Fresh citrous. Dade City Citrus Growers Association. 175,778; Nov. 13; Serial No. 177,279; published Aug. 14, 1923.
Fruits, Fresh deciduous. Coops Bros. 175,834; Nov. 13; Serial No. 181,881; published Sept. 4, 1923.
Grapes, Fresh and dehydrated. Pacific-Italian Trading Corporation. 175,766; Nov. 13; Serial No. 177,046; published Aug. 28, 1923.
Hams, Raw and cooked. Smithfield Company. 175,822; Nov. 13; Serial No. 162,216; published Aug. 28, 1923.
Ice cream. Bridgeman-Russell Co. 175,779; Nov. 13; Serial No. 177,268; published Aug. 28, 1923.
Ice-cream confections. Sullivan, Hensley & Ponto. 176,018; Nov. 13; Serial No. 177,145; published July 3, 1923.
Lard. F. G. Vogt & Sons, Inc. 175,790–1; Nov. 13; Serial Nos. 179,756–7; published Sept. 4, 1923.
Lettuce, Fresh. Sawdey & Hunt. 175,928; Nov. 13; Serial No. 179,885; published Aug. 28, 1923.
Limes and lemons, Fresh. L. A. Strauss. 175,800; Nov. 13; Serial No. 179,493; published Sept. 4, 1923.
Marmalade and jellies. N. A. Twaits. 175,749; Nov. 13; Serial No. 165,169; published Aug. 28, 1923.
Matzoths. A. Goodman & Sons, Inc. 175,824; Nov. 13; Serial No. 162,732; published Sept. 4, 1923.
Meats, lard, eggs, etc. Allied Packers, Incorporated. 176,087; Nov. 13.
Milk, cream, and chocolate milk food beverages. Sterling Milk Company. 176,102; Nov. 13.
Oil, Olive. H. Karlin. 175,860; Nov. 13; Serial No. 175,497; published Aug. 14, 1923.
Oils and fats, Edible. American Cotton Oil Company. 175,734; Nov. 13; Serial No. 178,944; published Sept. 4, 1923.
Oils, fats, and combinations thereof, Edible. American Cotton Oil Company. 175,852; Nov. 13; Serial No. 176,709; published Aug. 28, 1923.
Peanut butter. Kidd and Company. 175,777; Nov. 13; Serial No. 177,304; published Aug. 14, 1923.
Pop-corn confection. Rich-Maid Mfg. Co. 175,759; Nov. 13; Serial No. 171,817; published Aug. 21, 1923.
Sugar, Granulated. Schwabacher Bros. & Co. 175,775; Nov. 13; Serial No. 177,412; published Aug. 28, 1923.
Tomatoes, Fresh. N. Goldsmith. 175,794; Nov. 13; Serial No. 179,664; published Sept. 4, 1923.

Vinegar. M. A. Gedney Company. 175,940; Nov. 13; Serial No. 173,826; published Aug. 28, 1923.

CLASS 50.

Canvas or other fabric having metal cross strips and roller, Article made of. Rolup Screen Company. 175,760; Nov. 13; Serial No. 171,511; published Sept. 4, 1923.

Cuts, emblems, and collar devices. Military Order of the Cootie. 175,752; Nov. 13; Serial No. 166,316; published Sept. 4, 1923.

Granite, Monumental blocks of. Phillips & Slack, Inc. 175,826; Nov. 13; Serial No. 182,548; published Sept. 4, 1923.

Rubber sheeting. A. Stein & Company. 175,830; Nov. 13; Serial No. 183,005; published Sept. 4, 1923.

Shoe and slipper trees. James N. Mayhew Co. 175,827; Nov. 13; Serial No. 182,427; published Sept. 4, 1923.

Signs, Advertising. Cott-a-lap Company. 175,832; Nov. 13; Serial No. 181,980; published Sept. 4, 1923.

Waterproof fabrics. Schwarzwaelder Company. 175,825; Nov. 13; Serial No. 182,676; published Sept. 4, 1923.

ALPHABETICAL LIST OF LABELS.

Alcolotion. For a Preparation for External Use and Application. Cragin Products Co. 26,517; Nov. 13.

Allovit. For Bread. Schafer Bakery, Inc. 26,540; Nov. 13.

All White Meat. For Canned Bonita Fish. Van Camp Sea Food Company. 26,543; Nov. 13.

Ambrosia Chicago Best of All Chocolates. For Chocolate. Ambrosia Chocolate Cream Company. 26,507; Nov. 13.

Antillas. For Canned Lobster. W. Frank. 26,522; Nov. 13.

Arabo. For Coffee. T. N. Koffey Co. 26,526; Nov. 13.

Avery Red Tag Cultivator Sweep. For Cultivator Sweeps. B. F. Avery & Sons. 26,510; Nov. 13.

Black Sambo. For a Children's Game. Noble and Noble. 26,535; Nov. 13.

Brainard's Little Brown Jug. For Heat-Insulated Liquid Containers. H. H. Brainard. 26,511; Nov. 13.

Burro Coffee. For Coffee. B. Fischer & Co. 26,520; Nov. 13.

Chicago Brand-De Luxe. For Ginger Ale. Chicago Beverage Co. 26,514; Nov. 13.

Cinderella. For a Children's Game. Noble and Noble. 26,536; Nov. 13.

Del-Rose. For Lobsters. Central Brokerage Company. 26,513; Nov. 13.

Eye Opener. For Candy. Anthony Candy Company. 26,508; Nov. 13.

Fashion-Bilt Clothes. For Men's Garments. Lieberman & Star Co. 26,528; Nov. 13.

Flash Light. For Furniture Polish. William Manheim Marlowe & Son. 26,530; Nov. 13.

Flexo. Bar Belt Dressing, Preservative For All Kinds Of Belts. For A Belt Dressing. Flexo Company. 26,521; Nov. 13.

Game of Alice in Wonderland. For a Children's Game. Noble and Noble. 26,537; Nov. 13.

Golden. For Zwieback. Manchester Biscuit Company. 26,529; Nov. 13.

Hollybrook. For Butter. H. C. Christians Co. 26,515; Nov. 13.

Keystone. For Malt Sirup. H. Mihm. 26,532; Nov. 13.

Kiddie-Need Toilet Seat Take it With You. For Containers for a Child's Toilet Seat. De Rand Company. 26,518; Nov. 13.

Lewis' Single Binder De Luxe. For Cigars. Frank P. Lewis Cigar Co. 26,527; Nov. 13.

Mammy's Delight Southern Beaten Biscuit. For Wrappers for Biscuits. Adelaide A. Jackson and Elizabeth Jones. 26,523; Nov. 13.

Mermaid. For Dates. G. H. Narbonne. 26,534; Nov. 13.

Narbonne. For Dates. G. H. Narbonne. 26,533; Nov. 13.

Nothrow Piston Rings. For Piston Rings. Nothrow Piston Ring Co. 26,538; Nov. 13.

Palladium Paints. For Paints. Dixie Paint Company. 26,519; Nov. 13.

Pax 2 New Life Savers. For a Blood Builder and Nervine and a Healing Extract, for Inside Bath. Pax-American Cross Chemical Co. 26,539; Nov. 13.

Progress. For Writing Tablets. Kalamazoo Stationery Co. 26,524; Nov. 13.

Rainbow Brand Creamery Butter. For Butter. Menasha Printing and Carton Company. 26,531; Nov. 13.

Sleep Easy Felt Mattress. For Mattresses. Knoxville Mattress Company. 26,525; Nov. 13.

Spot Cleaner. For a Compound Used to Clean Carpets, Automobile Covers, Woodwork, Fabrics, and Leather Goods. Aristocrat Products Co. 26,509; Nov. 13.

The Judge. For Cigars. G. H. Thompson. 26,541; Nov. 13.

Trumpet. For Coffee. H. P. Coffee Company. 26,516; Nov. 13.

Winona. For Pineapple. Geo. Bubb & Sons. 26,512; Nov. 13.

Wisconsin Brand. For Canned Peas. Wisconsin State Canners Co. 26,544; Nov. 13.

Wondershine Metal Polish. For a Metal Polish. J. G. Tracey. 26,542; Nov. 13.

ALPHABETICAL LIST OF PRINTS.

An Important Feature of "Onyx Pointex" Hosiery. For Hosiery. "Onyx" Hosiery, Inc. 6,964; Nov. 13.

Brown's Velvet Ice Cream Made By New Orleans Ice Cream Co. For Ice Cream. B. C. Brown. 6,959; Nov. 13.

Certainly—Your own mild Palmolive. For Soap. Palmolive Company. 6,966; Nov. 13.

15¢ in a Sealright Container. For Sealright Paper Boxes. Sealright Co. 6,968; Nov. 13.

For your Baby's Sake! For Drugs. E. R. Squibb & Sons. 6,970; Nov. 13.

If your hands were so tiny that your fingers were no thicker than plus. For Hosiery. "Onyx" Hosiery, Inc. 6,963; Nov. 13.

Jabón Reuter. For Toilet Soap. Barclay & Co. 6,957; Nov. 13.

Mr. Coff E. Bean says: For Coffee. Joannes Brothers Company. 6,961; Nov. 13.

Reflecting Beauty Secrets of the Past. For Palmolive Soap. Palmolive Company. 6,965; Nov. 13.

Roper. For Gas Ranges. Geo. D. Roper Corporation. 6,967; Nov. 13.

Stop Hunting For That Handle. For Extension Door Handles for Ford Automobiles. Bronzo Alumina Corporation. 6,958; Nov. 13.

10¢ in a Sealright Container. For Sealright Paper Boxes. Sealright Co. 6,969; Nov. 13.

Toy Store. For Canned Goods. Libby, McNeill & Libby. 6,962; Nov. 13.

We Buy In Carloads The Gain Is Yours and representation of products in the form of a human figure. For Groceries. Central Wholesale Grocers, Inc. 6,960; Nov. 13.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 1.

Coal. Laurence E. Tierney Fuel Company. 184,194; Nov. 13.

Coal, Bituminous. Brooks, Smith & Coane, Limited. 185,329; Nov. 13.

Hops. B. McGibbon. 183,660; Nov. 13.

Leather. California Tanning Company. 182,700; Nov. 13.

Leather. New Castle Leather Co. 184,037; Nov. 13.

Livestock, including dogs. A. M. Baldwin. 177,469; Nov. 13.

Seeds, Clover and field. F. S. Radway. 182,261; Nov. 13.

CLASS 2.

Bags or nets, Empty. G. W. Woodruff. 179,388; Nov. 13.

Baskets, Waste. Barlow Brothers. 185,738; Nov. 13.

CLASS 3.

Garment-holding frames, Metal. H. R. Schroyer. 182,318; Nov. 13.

CLASS 4.

Abrasive papers or cloths. H. H. Barton and Son Co. 168,707; Nov. 13.

Cleaning and washing compound. Detroit Soda Products Co. 181,737; Nov. 13.

Cleaning felts, fabrics, hats, etc., Preparations for. Société Anonyme des Produits du Lion Noir. 118,614; Nov. 13.

Cleanser. Rub-No-More Company. 182,772; Nov. 13.

Oil of pine preparation. J. G. Hubbell. 181,121; Nov. 13.

Polish, Silver. C. M. Kimball Company. 181,191; Nov. 13.

Polish, Stove. C. M. Kimball Company. 181,192; Nov. 13.

Polishes, Metal, silver, and stove. C. M. Kimball Company. 153,003; Nov. 13.

Polishing compounds. A. Lowrey. 169,723; Nov. 13.

Powder and preparation for the hands. J. D. La Croix. 184,408; Nov. 13.

Preparation for cleaning velvet, silk, etc. Whittemore Brothers Corporation. 184,273; Nov. 13.

Preparation for the same use to which soaps, cleaning fluids, washing powders, etc., are put. Solidified Naphtha Corporation. 182,273; Nov. 13.

Soap. General Paint and Varnish Company. 183,277; Nov. 13.

Soap. Pioneer Products Co. 185,034; Nov. 13.

Soap. J. C. Wolford. 183,461; Nov. 13.

Soap, Hand. Moore & Co. 176,907; Nov. 13.

Soap, Medicated. Societe Anonyme des Laboratoires Innoxa. 181,354; Nov. 13.

Soap stock. American Cotton Oil Company. 177,466; Nov. 13.

Soaps and shaving creams. Palmers, Limited. 184,291; Nov. 13.

Soaps, Toilet. L. T. Piver, Inc. 184,421; Nov. 13.

CLASS 5.

Adhesive cements. McCaw, Stevenson & Orr, Ltd. 141,922; Nov. 13.

CLASS 6.

Aldehyde, solid methyl alcohol, and solid ethyl alcohol, Agglomerates of solid. Elektrizitatswerk Lonza. 183,699; Nov. 13.

Alum, boric acid, camphorated oil, etc. U. S. Pure Drug Laboratories. 183,130; Nov. 13.

Alum, boric acid, powdered borax, etc., Powdered. Hy-Pure Laboratories. 183,115; Nov. 13.

Beauty clays. W. H. Lowe. 180,135; Nov. 13.

Chemical substances used in the manufactures, anticorrosives, and drug for vulcanizing rubber. T. H. Roberts. 183,760; Nov. 13.

Clay, cleansing and tissue crèmes, Facial. J. C. Pickett. 183,083; Nov. 13.

Clay, Complexion. Glacier Deposit Laboratories, Inc. 182,050; Nov. 13.

Composition for treating leucorrhea. S. S. Atkins. 183,642; Nov. 13.

Compound for treating colds, influenza, etc. J. J. Enheider. 183,057; Nov. 13.

Corn remover. J. C. Dawes. 183,332; Nov. 13.

Cream, Skin. H. Leys. 168,582; Nov. 13.

Diastatic preparation used for desizing and degumming of fabrics. American Burtonizing Company and Wallerstein Laboratories. 183,619; Nov. 13.

Fire-extinguishing chemical compound. Protex Chemical Co. 183,888; Nov. 13.

Hair-dressing preparation. C. E. Bonyata. 183,690; Nov. 13.

Insecticides. E. Govett. 183,521; Nov. 13.

Laxative, Antiseptic. Abel-Jensen Laboratories. 183,515; Nov. 13.

Liniment. E. E. Heller. 175,987; Nov. 13.

Liniment. J. C. Kreider. 182,710; Nov. 13.

Liniment. W. A. Whitmore. 185,887; Nov. 13.

Liniment for external use I. B. Jefferson. 165,083; Nov. 13.

Lip sticks. Societe Guerlain. 183,772; Nov. 13.

Lotion, Hand. M. Sullivan. 183,418; Nov. 13.

Medicated tablets and capsules for headache, etc. W. A. Libby. 173,839; Nov. 13.

Medicinal preparation. F. Grosse. 182,206; Nov. 13.

Medicine as an antiseptic and mouth wash. J. W. Rogers. 186,858; Nov. 13.

Medicine to be used in the treatment and prophylaxis of cancer, Patent. G. Formé. 179,465; Nov. 13.

Medicines. S. Bela. 165,663; Nov. 13.

Oil, Shampoo. Roman Inc. 182,674; Nov. 13.

Ointment, Antiseptic and healing. Elmer & Amend. 182,504; Nov. 13.

Ointment for the treatment of ringworm, seven-year itch, etc. C. V. Forshag & Co. 183,701; Nov. 13.

Ointment or salve. H. F. Atchley. 179,347; Nov. 13.

Ointment or salve for sunburn, scalds, etc. Western Wholesale Drug Co. 182,635; Nov. 13.

Perfume. A. P. Babcock Co. 183,246; Nov. 13.

Perfume. C. T. Dare. 183,098; Nov. 13.

Perfume. Japanese Perfume Co. 182,660; Nov. 13.

Perfume and incense. Kwush-Ru Company. 169,486; Nov. 13.

Perfume, toilet water, face powder, etc. Furst-McNess Company. 183,268; Nov. 13.

Perfumes. John Blocki & Son, Inc. 175,062; Nov. 13.

Perfumes. Societe Guerlain. 183,765; Nov. 13.

Perfumes. Societe Guerlain. 183,767; Nov. 13.

Perfumes. Societe Guerlain. 183,770–1; Nov. 13.

Perfumes. Societe Guerlain. 183,773–8; Nov. 13.

Perfumes, toilet water, vanishing cream, face powder, etc. Richard Hudnut. 183,744; Nov. 13.

Perfumes, toilet waters, face creams, etc. G. H. Weyer. 183,181; Nov. 13.

Pharmaceutical preparation. H. C. Thorburn. 185,193; Nov. 13.

Powder, Toilet. Eli Lilly and Company. 183,579; Nov. 13.

Preparation for removing freckles. M. Sullivan. 183,175; Nov. 13.

Preparation for removing wrinkles. M. Sullivan. 183,176; Nov. 13.

Preparation for rheumatism, sprains, etc. Linitane Company. 183,751; Nov. 13.

Preparation for the hair. W. M. Bright. 182,960; Nov. 13.

Preparation for the treatment of headache, neuralgia, etc. Gilbert Bros. & Co. 182,511; Nov. 13.

Preparation for the treatment of headache, neuralgia, etc. Gilbert Bros. & Co. 183,377; Nov. 13.

Preparation for the treatment of itch, sores, etc. Germ-O-Salv Company. 182,342; Nov. 13.

Preparation for the treatment of syphilis and other spirochetal diseases. Boot's Pure Drug Co. 183,552; Nov. 13.

Preparation for the treatment of toothache. J. L. Case. 183,094; Nov. 13.

Preparation for the treatment of tuberculosis, asthma, and hay fever. J. L. Rowsey. 165,036; Nov. 13.

Preparation for treatment of pyorrhea. Lawrence Chemical Company. 183,389; Nov. 13.

Preparation for use as a preventive of rheumatism and for neutralizing uric acid. A. J. Adams. 168,910; Nov. 13.

Preparations for the hair. Lanoil System Ltd. 174,903; Nov. 13.

Remedies for cough-producing affections and colds. Wescoe Laboratories. 182,633; Nov. 13.

Remedy for stomach disorders and constipation. I. A. Melnick. 183,488; Nov. 13.

Salve for acute colds, etc. Sowers and Gough. 158,839; Nov. 13.

Shampoo. A. Noll. 183,757; Nov. 13.

Shampoo. R. I. Paddon. 183,120; Nov. 13.

Sulphur. Kutner-Goldstein Co. 183,304; Nov. 13.

Toilet preparations. M. J. Langdon. 182,474; Nov. 13.

Tonic, Stomach. Universal Remedies Company. 183,426; Nov. 13.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Tonic, Vitamine. Elkins Medicine Co. 182,143; Nov. 13.
Tonics, General. E. T. Wix. 166,729; Nov. 13.
Tooth paste and a cream for the skin. Gilbert Bros. & Co. 183,372; Nov. 13.
Water neutralizer, scale remover, and scale preventive for boilers. P. Edwards. 182,238; Nov. 13.
Welding preparation. Wilson Instrument & Specialty Company. 183,429; Nov. 13.
Zinc oxide. Grasselli Chemical Company. 163,975–6; Nov. 13.

CLASS 7.

Rope. Hawkins & Tipson Ltd. 182,538; Nov. 13.
Twines for fishing nets. Stuarts & Jacks, Limited. 178,301; Nov. 13.

CLASS 8.

Pipes and cigar holders. C. H. Longbottom. 179,612; Nov. 13.
Pipes, cigar and cigarette holders. E. Ropp. 180,498; Nov. 13.

CLASS 12.

Roofing material. Continental Roofing & Manufacturing Co. 180,052; Nov. 13.

CLASS 13.

Pipe couplings, metal pipes, etc., Metal. National Tube Company. 184,415; Nov. 13.
Valves, urinal valves, urinal spreaders, etc., Flush. Hedges & Brother. 178,696; Nov. 13.

CLASS 14.

Steel, Sheet. Milwaukee Rolling Mill Company. 185,874; Nov. 13.

CLASS 15.

Candles. D. B. Hansen & Sons. 183,972; Nov. 13.
Grease, Cup and axle. Marine Oil Company. 166,386; Nov. 13.

CLASS 16.

Calcimines. Muralo Company. 183,397; Nov. 13.
Calcimines. Muralo Company. 183,399; Nov. 13.
Paints and paint enamels. Toch Brothers. 161,590–1; Nov. 13.
Paints or cements. R. M. Lucas. 168,113–15; Nov. 13.
Polishes for painted, varnished, etc., surfaces. Windsor Polish Co. 184,883; Nov. 13.
Varnishes, stains, and paint enamels. General Paint and Varnish Company. 183,273; Nov. 13.
Zinc oxide. Grasselli Chemical Company. 186,226; Nov. 13.

CLASS 19.

Radiator caps. White Products Company. 146,186; Nov. 13.
Vehicles, Motor. Delmore Manufacturing Co. 151,259; Nov. 13.

CLASS 21.

Cat whiskers. Foote Mineral Co. 185,823; Nov. 13.
Condensers, Variable. Fett & Kimmel Co. 184,330; Nov. 13.
Detector crystals. Foote Mineral Co. 185,822; Nov. 13.
Motors, generators, rotary converters, etc., Electric. Louis Allis Company. 183,790; Nov. 13.
Rectifiers and rheostats, Electric. Automatic Electrical Devices Company. 185,403; Nov. 13.
Transformers. Marie Engineering Company. 184,252; Nov. 13.
Wireless receiving sets. Western Coil & Electrical Co. 185,394; Nov. 13.

CLASS 22.

Game coupon punch board, Checker-. J. D'Orio. 170,872; Nov. 13.
Golf clubs. A. G. Spalding & Bros. 184,527; Nov. 13.
Toy animals. P. G. Atlantic Toy Mfg. Co. 180,808; Nov. 13.

CLASS 25.

Latches, levers, barrel bolts, etc. Greene, Tweed & Co. 185,868; Nov. 13.

CLASS 32.

Phonograph cabinet, flower and cedar chests, and seats. Theodor Kundtz Company. 178,929; Nov. 13.
Tables and other forms of support for holding or supporting electric heating appliances. C. B. Worthen Co. 165,220; Nov. 13.

CLASS 34.

Lamp burner, Kerosene-. Gill Brothers Company. 183,474; Nov. 13.
Lighting fixtures. R. Beardsley. 153,196; Nov. 13.

CLASS 35.

Automobile fan belts. Teuscher & Son Machinery Supply Co. 163,553; Nov. 13.
Brake lining. Russell Manufacturing Co. 157,007; Nov. 13.
Tires and tubes, Pneumatic. H. C. Hower. 169,854; Nov. 13.
Tires, Automobile. Michelin Tire Company. 184,413; Nov. 13.
Tubes and tires, Inner. Admiral Tire & Rubber Company. 183,017; Nov. 13.

CLASS 36.

Phonographs. Bristol & Barber Co. 163,213; Nov. 13.

CLASS 37.

Paper, Bond. Franc-Graham Paper Co. 184,787; Nov. 13.
Paper for printing purposes, Bond. Calvert Lithographing Co. 186,102; Nov. 13.
Paper, Prepared tracing. Special Paper Mfg. Co. 186,030–1; Nov. 13.
Paper, Toilet. Albany Perforated Wrapping Paper Company. 184,576; Nov. 13.
Paper, Toilet. Northern Paper Mills. 184,359; Nov. 13.
Pens, Fountain. Le Boeuf Fountain Pen Company. 184,672; Nov. 13.
Pens, penholders, lead pencils, etc., Fountain. MacLean Drug Company. 178,758; Nov. 13.

CLASS 38.

Books in a course of dancing instructions, Series of. W. C. Peak. 170,210; Nov. 13.
Calendars. Community Publicity Service. 181,675; Nov. 13.
Folders, circulers, etc. advertisements, and like advertising matter. Art-Ad Studio. 179,257; Nov. 13.
Magazine. T. A. Boright. 181,333; Nov. 13.
Magazine. Montgomery Ward & Co. 183,078; Nov. 13.
Periodical. Laundry Age Publishing Co. 152,131; Nov. 13.
Programs, Racing. Browning and Atkin. 178,549; Nov. 13.

CLASS 39.

Bathing suits and trunks. R. L. Bennett Co. 155,590; Nov. 13.
Blouses, undershirts, and pyjamas. M. Shrage. 162,353; Nov. 13.
Boots and shoes. F. L. Heim & Son. 180,429; Nov. 13.
Boots and shoes, Leather. Bettmann-Dunlap Company. 181,004; Nov. 13.
Boots, shoes, and slippers. Nath'l Fisher & Co. 165,490; Nov. 13.
Brassières. B. Sklarew. 182,680; Nov. 13.
Brassières and garter brassières. Model Brassiere Co. 181,695; Nov. 13.
Corsets, brassières, and underwear. Kops Bros. 174,247; Nov. 13.
Corsets, corset waists, brassières, etc. Royal Worcester Corset Company. 179,744; Nov. 13.
Cravats and necktles. Cheney Brothers. 184,814; Nov. 13.
Fur coats, Imitation-mink-. Agines Brothers. 163,728; Nov. 13.
Gloves. Wm. Filene's Sons Company. 182,337; Nov. 13.
Gloves. Wm. Filene's Sons Company. 182,470; Nov. 13.
Hats. Sternberger & Sheaman. 181,574; Nov. 13.
Hats and caps. Nemo Hat Company. 181,536; Nov. 13.
Hats for men. William Carroll & Company. 182,533; Nov. 13.
Hats, Ladies'. P. Miller. 180,442; Nov. 13.
Hats, Sun. G. R. Green. 181,525; Nov. 13.
Hosiery Scot Knit Hosiery Co. 169,652; Nov. 13.
Hosiery. W. J. Smyth. 177,113; Nov. 13.
Hosiery and undershirts. Forns & Pla. 184,662; Nov. 13.
Overcoats and suits. Nicholson's Raincoat Co. Limited. 172,006; Nov. 13.
Rubber heels. Holtite Manufacturing Company. 178,845; Nov. 13.
Rubber heels, rubber soled and heeled shoes, and leather shoes. La Crosse Rubber Mills Co. 177,850; Nov. 13.
Shirts, Men's and boys' work. Landauer & Co. 184,552; Nov. 13.
Shoes. Geo. J. Bertman Shoe Co. 177,422; Nov. 13.
Shoes. Carson Pirie Scott & Co. 180,586; Nov. 13.
Shoes. F. G. Delbon. 181,591; Nov. 13.
Shoes. Hannahsons Shoe Company. 180,930; Nov. 13.
Shoes. Hurley Shoe Co. 181,487; Nov. 13.
Shoes. Lunn & Sweet Incorporated. 182,594–6; Nov. 13.
Shoes and leather soles for shoes. Indian Head Shoe Co. 164,502; Nov. 13.
Shoes and parts thereof. A. J. Bates Company. 181,472; Nov. 13.
Shoes, Ladies'. Foster Ryan Shoe Co. 180,974; Nov. 13.
Shoes, Ladies'. Jacobs & Thatcher Co. 138,498; Nov. 13.
Shoes, Leather. Cammeyer. 179,710; Nov. 13.
Shoes, Leather. Kannally-Wick Corporation. 178,891; Nov. 13.
Shoes, slippers, and boots. I. Miller & Sons, Inc. 182,001; Nov. 13.
Slippers and shoes, dresses, suits, etc., Crocheted and knitted. Bernhard Ulmann Co. 184,699; Nov. 13.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Slips, Children's. E. H. Horwood & Co. 171,994; Nov. 13.
Suits for boys, Outer play. Kiddyall Manufacturing Company. 184,863; Nov. 13.
Underwaist union suits. E. H. Horwood & Co. 171,996; Nov. 13.
Underwear, Knit. Robert Ablett & Co. 146,750; Nov. 13.
Underwear, Knit. C. Yost. 181,712; Nov. 13.

CLASS 40.

Art needlework. Southern Yarn Exchange. 181,150; Nov. 13.
Art needlework. Southern Yarn Exchange. 181,152; Nov. 13.
Beads and metal spangles. Canuet Frères. 184,017; Nov. 13.
Combs, pincushion holders, and buttonhooks, Toilet. J. C. Dowd & Co. 183,470; Nov. 13.
Flowers, Artificial. Shearer & McCarthy Corp. 184,216; Nov. 13.
Hair curlers. Boyd-Brenizer Corporation. 156,349; Nov. 13.
Stilettos, hooks and eyes, corset eyes, etc., Bone. William Prym Company. 168,431; Nov. 13.
Stilettos, hooks and eyes, snap fasteners, etc. William Prym Company. 148,614; Nov. 13.

CLASS 42.

Comforts, Bed. A. L. Reach. 185,795; Nov. 13.
Cotton piece goods. American Printing Company. 185,737; Nov. 13.
Cotton piece goods. Edwin E. Berliner & Co. 171,444; Nov. 13.
Cotton piece goods. G. Sidenberg & Co. 109,931; Nov. 13.
Cotton piece goods. Whitworth & Mitchell, Limited. 167,859; Nov. 13.
Cotton piece goods. Wilton Manufacturing Company. 185,774–5; Nov. 13.
Hair nets. Betsy Ross Hair Net Corp. 185,509; Nov. 13.
Hair nets. Namco Products Corporation. 185,308; Nov. 13.
Hair nets. S. Glemby's Sons Co. 186,009; Nov. 13.
Pillowcases. J. C. Penney Company. 185,671; Nov. 13.
Silks in the piece. Jansen & Pretzfeld, Inc. 164,645; Nov. 13.
Woolen cloth in the piece. S. Stein & Company. 184,190; Nov. 13.

CLASS 43.

Thread, Cotton. Smith & Dove Manufacturing Co. 179,231; Nov. 13.
Yarns. Bernhard Ulmann Co. 176,377; Nov. 13.
Yarns, Hand-knitting wool. Bernhard Ulmann Co. 176,381; Nov. 13.

CLASS 44.

Electrical appliances and attachments thereto. Physicians Electronic Supply Co. 184,622; Nov. 13.
Electronic medical apparatus. C. W. Sidney. 184,873; Nov. 13.

CLASS 46.

Acid, fruit butters, butter flavoring, cake mix, etc., Acetic. Northwestern Bakers & Confectioners Co. 161,938; Nov. 13.
Alimentary paste products. A. Goodman & Sons, Inc. 169,544; Nov. 13.
Apples, Fresh. North Pacific Mortgage Company. 185,668; Nov. 13.
Apples, Fresh. Resetar Bros. 185,675; Nov. 13.
Asparagus, Fresh. Vegetable Exchange of California, Inc. 185,637; Nov. 13.
Bread. W. B. Fink. 180,925; Nov. 13.
Butter. Tell City Creamery Company. 180,950; Nov. 13.
Butter. Valley Dairy Products Company. 180,674; Nov. 13.
Butter, raw cream, fresh eggs, etc. A. W. Barber. 154,118; Nov. 13.
Candies. A. L. Miller. 162,561; Nov. 13.
Candy. Binghamton Candy Co. 184,318; Nov. 13.
Candy. Tennessee Biscuit Co. 183,951; Nov. 13.
Canned corn. Iowa City Canning Co. 183,710; Nov. 13.
Canned fruits and berries. Pacific Food Products Co. 185,610; Nov. 13.
Canned fruits and vegetables. Beesemyer-Waggoner, Inc. 185,687–9; Nov. 13.
Canned fruits, preserved fruits, canned vegetables, etc. Reid, Murdoch & Co. 165,818; Nov. 13.
Canned peas. San Juan Islands Cannery. 181,911; Nov. 13.
Canned vegetables and tomato purée, tomato catchup. National Packing Corporation. 180,880; Nov. 13.
Catchup, tomatoes, and mayonnaise, Combination of. Poly-naise Company. 178,061; Nov. 13.
Cheese and butter. Chandler and Rudd Company. 140,524; Nov. 13.
Coffee. Kellum Company. 184,135; Nov. 13.
Coffee. H. A. Schnittker. 181,618–19; Nov. 13.
Coffee. H. A. Schnittker. 181,621; Nov. 13.
Coffee, olive oil, and sugar. Akron Grocery Co. 180,260; Nov. 13.
Confection. J. Spereckas. 160,514; Nov. 13.
Cookies, cakes, and crackers. J. S. Ivins' Son, Inc. 181,750; Nov. 13.
Corn meal, pearl barley, hominy grits, etc. Quaker Oats Company. 181,646; Nov. 13.
Dates. Tropical Date Company. 185,681; Nov. 13.
Dessert, Gelatin. Wabash Baking Powder Co. 182,631; Nov. 13.
Fats and cottonseed oils, Hard. American Cotton Oil Company. 178,425; Nov. 13.
Feed, Cattle and poultry. Pease & Dwyer Co. 156,058; Nov. 13.
Feed, Dairy and horse. Tri-State Vegi Feed Co. 182,451; Nov. 13.
Feeds, Stock and poultry. Arcady Farms Milling Company. 176,056; Nov. 13.
Flavoring extracts. Gilbert Bros. & Co. 183,374; Nov. 13.
Flavoring extracts, mincemeat, almond paste, etc., Food-. International Company. 175,016; Nov. 13.
Flour, Self-rising. Dunlop Milling Company. 182,740; Nov. 13.
Flour, Wheat. Archbold-Giger & Co. 181,807; Nov. 13.
Flour, Wheat. King Milling Co. 182,422; Nov. 13.
Flour, Wheat. Lillie Mill Company. 182,759; Nov. 13.
Flour, Wheat. Portland Flour Mills Co. 182,177–8; Nov. 13.
Flour, Wheat. Portland Flour Mills Co. 182,607–8; Nov. 13.
Flour, Wheat. Willis Norton & Co. 177,884; Nov. 13.
Food, Cereal breakfast. Pokodot Cereal Company. 181,309; Nov. 13.
Food drink, Cereal. J. L. Shroyer. 156,117; Nov. 13.
Food, Infants' and invalids'. Joseph Nathan & Co. 174,587; Nov. 13.
Foods, Health. W. H. Brooks. 182,231; Nov. 13.
Fruit concentrate. F. E. Booth Co. 185,690; Nov. 13.
Fruit, Fresh citrous. Mupu Citrus Association. 182,170; Nov. 13.
Fruits and vegetables, Fresh. Standard Growers Exchange. 169,334; Nov. 13.
Fruits and vegetables, Fresh. Phil Warner & Son. 183,510; Nov. 13.
Fruits, Fresh citrous. Lindsay Farm Bureau Fruit Association. 185,713; Nov. 13.
Gelatin dessert preparation. California Food Products Company. 182,649; Nov. 13.
Gelatin preparation. Tyler Chemical Co. 182,553; Nov. 13.
Grapes, Fresh. Freedman & Engelman. 185,654; Nov. 13.
Grapes, Fresh. Starry, Young & Way. 185,725; Nov. 13.
Grapes, Fresh. Tipton Fruit Growers Assn. 185,731; Nov. 13.
Ice cream. Beech-Nut Packing Company. 159,687; Nov. 13.
Jellies and jams, vinegar, honey, etc., Fruit. Grocers Specialty Co. 181,275; Nov. 13.
Marmalade. F. I. Halsey. 180,280; Nov. 13.
Meat and milk essence, beverage chocolate, pea soup, etc. Food Products Ltd. 176,821; Nov. 13.
Milk, Evaporated and condensed. Colorado Condensed Milk Co. 178,492; Nov. 13.
Milk for bakers and confectioners. International Company. 159,318; Nov. 13.
Noodles, vermicelli, and similar paste products. Pfaffmann Egg Noodle Company. 160,633; Nov. 13.
Oleomargarine, Nut. E. S. Bazley. 171,242; Nov. 13.
Peanuts and peanut butter, Salted. Davis & Lamb. 163,382; Nov. 13.
Potatoes. Nix Produce Company. 183,884; Nov. 13.
Raisins. Sun Maid Raisin Growers. 171,108; Nov. 13.
Salad dressing, salad and olive oil, vinegar, etc. John Scowcroft & Sons Company. 182,014; Nov. 13.
Sandwiches. A. Brooks. 170,469; Nov. 13.
Sirup for food beverages, ice cream, etc., Flavoring. J. F. Hightower. 182,585; Nov. 13.
Tomato paste. G. Anastopoulos. 162,712; Nov. 13.
Vegetable shortening. Alberto Vales Company. 185,686; Nov. 13.
Vegetables, Fresh. Osborne Fruit & Vegetable Company. 185,669; Nov. 13.

CLASS 50.

Rugs, carpets, floor and door mats, etc. Standard Felt Company. 159,627; Nov. 13.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF NOVEMBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A/S Telocic. (See Sinding-Larsen, Alf., assignor.)
Aagaard, Otto W., Chicago, Ill. Auxiliary mouthpiece for telephones. 1,474,100; Nov. 13.
Abbott, Charles P., Allston, Mass. Sanitary attachment for telephone transmitters and the like. 1,474,186; Nov. 13.
Abbott, Reuben E., and H. E. Boyster, assignors to Fisher Body Corporation, Detroit, Mich. Dry kiln. 1,473,755; Nov. 13.
Abell, Arthur H., New York, assignor, by mesne assignments, to Eclipse Machine Company, Elmira Heights, N. Y. Engine-starting apparatus. 1,474,010; Nov. 10.
Abraham, Herbert, New York, N. Y., assignor to The Ruberoid Co. Roofing element. 1,474,919; Nov. 13.
Adams & Westlake Company, The. (See Hamm, William S., assignor.)
Adell, John A., and A. H. Starrett, assignors to The L. S. Starrett Company, Athol, Mass. Hack saw. 1,473,803; Nov. 13.
Ainsworth, George, Great Neck, N. Y., assignor to Alfred Vester & Sons, Inc., Providence, R. I. Pendulet. Des. 63,250; Nov. 13.
Akers, John McK. and W. C., assignors of one-third to L. T. Compton, Matewan, W. Va. Pneumatic support for vehicle bodies. 1,474,222; Nov. 13.
Akers, Walter C. (See Akers, John M. and W. C.)
Alco Deo Company. (See Hoffman, Alfred, assignor.)
Aldeen, Wilhelm G., Rockford, Ill. Automatic screw machine. 1,474,132; Nov. 13.
Allen, Grover C., Detroit, Mich. Bulb holder. 1,474,221; Nov. 13.
Allen, James M., et al., trustees. (See Allen, James M., assignor.)
Allen, James M., assignor to J. M. Allen, F. P. Smith, and F. D. Tucker, as trustees for the Smith-Allen Battery Company, St. Louis, Mo. Storage battery. 1,474,313; Nov. 13.
Allen, S. L., & Co. (See Warren, William C., assignor.)
Allen, W. P., et al., trustees. (See Paul, Christian F., jr., assignor.)
Allen, William H., Detroit, Mich. Polish for enameled surfaces. 1,474,133; Nov. 13.
Allison Experimental Company. (See Trosky, C. L., and Marsh, assignors.)
Allyn, Harley H., Atlantic City, N. J. Self-sealing tire tube. 1,474,011; Nov. 13.
Alvey Manufacturing Company. (See Bretzfelder, Ira L., assignor.)
American Audioscope Co. (See Ries, Elias E., assignor.)
American Taximeter Company. (See Gluck, Julius, assignor.)
American Telephone and Telegraph Company. (See Davidson, John, jr., assignor.)
American Telephone and Telegraph Company. (See Espenschied, Lloyd, assignor.)
American Telephone and Telegraph Company. (See Osborne, Harold S., assignor.)
American Writing Paper Company. (See Lynch, Charles W., assignor.)
Amsden, Albert W., and W. D. Starrett, Athol, Mass., assignors to The L. S. Starrett Company. Combination and vise. 1,473,946; Nov. 13.
Anderson, Carl L. (See Middagh, R. E., and Anderson.)
Anderson, Herschel F., Huntsville, Ill. Mail-bag catcher and deliverer. 1,474,101; Nov. 13.
Anderson, John M. S., Bridgeport, Conn. Toy fishing game. 1,473,603; Nov. 13.
Andrews, Charles W., Duluth, Minn. Complete gasification of solid fuel. 1,474,012; Nov. 13.
Anderman, Roy E., Wapakoneta, Ohio. Auto jack. 1,474,223; Nov. 13.
Apple, Vincent G., Dayton, Ohio. Bearing. 1,474,134; Nov. 13.
Archibald, Francis D., Mamaroneck, N. Y. Manufacture of nuts for screw bolts, etc. 1,473,777; Nov. 13.
Ashley, Frank M. (See Carmel, Joseph, assignor.)
Ashmore, Leon H., Collingswood, N. J. Paper clip. 1,474,102; Nov. 13.
Atherton, Charles N., and A. L. Salter, Wichita, Kans. Crank pin and shaft truing tool. 1,473,804; Nov. 13.
Atkinson, Norman E., Vancouver, British Columbia, Canada. Finger ring. 1,473,717; Nov. 13.
Atkinson, Willard S., Ashland, N. J., assignor to Atlantic Elevator Company, Philadelphia, Pa. Elevator buffer. 1,473,692; Nov. 13.
Atlantic Elevator Company. (See Atkinson, Willard S., assignor.)
Augustine, Addison E., Hackensack, N. J., assignor to Chester Machine Co., Inc., New York, N. Y. End-flap-folding mechanism for envelope-making machines. 1,473,693; Nov. 13.
Babcock & Wilcox Company, The. (See Pratt, Arthur D., assignor.)
Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Liquid fuel for motors. 1,474,135; Nov. 13.
Bailey, Tillman, Nashville, Tenn. Composition for polishes. 1,473,947; Nov. 13.
Bailhe, George, Fort Wayne, Ind. Combined brake and throttle pedal. 1,473,984; Nov. 13.
Bailhe, George, Fort Wayne, Ind. Throttle-control apparatus for motor vehicles. 1,473,754; Nov. 13.
Baker Brothers. (See Hallenbeck, George E., assignor.)
Baker, Charles C., assignor of one-half to J. J. Smith, Pittsburgh, Pa. Attachment for partial plates or removable bridges. 1,473,661; Nov. 13.
Baker, William H., Montreal, Quebec, Canada. Sprinkler. 1,474,061; Nov. 13.
Balcom, Charles A. (See Reynolds, Joy S., assignor.)
Banks, Alfonso A., New York, N. Y. Tie press. 1,473,662; Nov. 13.
Banks, William H. (See Robertson, Colin, assignor.)
Barnette, John S., jr., Broughton, Pa. Safety device for street-car trailers. 1,473,718; Nov. 13.
Barney, Edwin E., New Rochelle, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,473,920; Nov. 13.
Barrows, Donald S., Rochester, assignor to The T. H. Symington Company, New York, N. Y. Draft-gear follower block. 1,474,225; Nov. 13.
Barrows, Donald S., Rochester, assignor to The T. H. Symington Company, New York, N. Y. Draft rigging. 1,474,224; Nov. 13.
Barry, Gerald G., Chicago, Ill. Metal wheel. 1,473,694; Nov. 13.
Barry, Howard F., assignor to The Ideal Utilities, Chicago, Ill. Scrubbing machine. 1,473,778; Nov. 13.
Bartholome, Charles L., Terre Haute, Ind. Ejector for cigarette or cigar holders. 1,473,663; Nov. 13.
Bass, Walter G., London, England. Theater and like seat, chair, and the like. 1,474,226; Nov. 13.
Bassick Company, The. (See Moore, Raymond G., assignor.)
Batchell, George W., Wellsburg, W. Va. Leer. 1,473,897; Nov. 13.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Mechanism for sorting and delivering articles. 1,473,604; Nov. 13.
Baumgarten & Co. (See Carroll, Arthur B., assignor.)
Baxter, Harold G., Baldwin, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Tumbler switch. 1,473,805; Nov. 13.
Bayard, Frederick W., Chester, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treating oils. 1,474,136; Nov. 13.
Beal, Ralph R., Palo Alto, assignor to A. Taylor, San Francisco, Calif. Radiotelegraphy. 1,473,719; Nov. 13.
Bean Spray Pump Co. (See Cushman, Everett B., assignor.)
Beardslee Chandelier Manufacturing Company. (See Dvorak, Anton, assignor.)
Beck, Andrew L., Orlando, Fla. Calculator. 1,473,948; Nov. 13.
Beckenbauer, Ludwig, Munich, Germany. Adjusting mechanism for calculating machines. 1,474,137; Nov. 13.
Beightol, Ward D., Fort Dodge, Iowa. Grease shield for brake drums. 1,473,664; Nov. 13.
Belden, Edward H., assignor to The Willys-Overland Company, Toledo, Ohio. Steering-gear support. 1,474,103; Nov. 13.
Bell, Frederick J. T. and H. C., Mossley, England. Lock-stitch sewing machine. 1,474,138; Nov. 13.
Bell, Hardy C. (See Bell, Frederick J. T. and H. C.)
Belleville Stove and Range Company. (See Schmale, Ernest, assignor.)
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric bell. 1,474,014; Nov. 13.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric switch. 1,474,013; Nov. 13.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Lamp socket. 1,474,015; Nov. 13.

Berg, Linas, Coleraine, Minn. Driving-box-shoe hanger. 1,473,949; Nov. 13.

Bergman, William G., Point Place, Ohio. Recuperator. 1,474,016; Nov. 13.

Berthelon, Edmond, Ax-les-Thermes, France. Furnace. 1,473,665; Nov. 13.

Bethenod, Joseph, Paris, France. High-frequency signaling system. 1,473,921; Nov. 13.

Beyster, Henry E. (See Abbott, R. E., and Beyster.)

Binder, Joseph. (See Rein, Gottfried H., assignor.)

Biondi, William A. (See Dalton, D. J., and Biondi.)

Bissell, David J., jr., assignor to Otis Automatic Train Control Incorporated, Spokane, Wash. Manually-operable valve for automatic train-control apparatus. 1,474,187; Nov. 13.

Black, Cecil W. S. (See Bradshaw, E. A., Black, and Nicholls.)

Black, Isaac T., Galt, Ontario, Canada. Stove. 1,473,666; Nov. 13.

Blaise, Edward, Brooklyn, N. Y. Cabinet for talking machine records. 1,474,017; Nov. 13.

Blaw-Knox Company. (See Loxterman, Howard B., assignor.)

Bodmar, Friedrich, Ostbahn, near Berlin, Germany. Preserving wood. 1,473,890; Nov. 13.

Bohnert, C. & W. (See Weber, Georg, assignor.)

Boisset, Charles, New Orleans, La. Cork-inserting machine. 1,474,227; Nov. 13.

Bolger, Robert S. (See Masury, A. F., and Bolger.)

Bollmann, Hermann, Hamburg, Germany. Countercurrent apparatus. 1,474,062; Nov. 13.

Booth, George W., Islington, Ontario, Canada. Tunnel kiln. 1,474,063; Nov. 13.

Boren, Earl E. (See Rodman, H., and Boren.)

Bossini, Raoul F., London, England. Coffee-making machine. 1,473,898; Nov. 13.

Bottomley, Clarence D., Charlotte, Mich. Electric switch. 1,473,950; Nov. 13.

Bowden, O. H. (See Shown, Finley C., assignor.)

Boyer, Buford A., and A. Krofft, Hemple, Mo. Vault or safe locking mechanism. 1,473,985; Nov. 13.

Boyler, Emanuel J., New Haven, assignor to A. J. Tanner, North Haven, Conn. Opener for cans and like containers. 1,474,064; Nov. 13.

Bradley, Linn, East Orange, N. J., assignor to Research Corporation, New York, N. Y. Apparatus for separating tar from gases. 1,473,806; Nov. 13.

Bradshaw, Ernest A., C. W. S. Black, and A. P. Nicholls, North Sydney, New South Wales, Australia. Device for locking demountable tire-carrying rims to road vehicles, etc. 1,474,139; Nov. 13.

Braud, William F., and E. O. Quarnstrom, Chicago, Ill. Carbon remover. 1,473,605; Nov. 13.

Brandon, Arthur H., assignor to The Deep Well Engineering Company, Toledo, Ohio. Fishing apparatus for wells. 1,473,606; Nov. 13.

Brandt & Krell Engineering Company, The. (See Brandt, Fokko, assignor.)

Brandt, Fokko, Kansas City, Mo., assignor to The Brandt & Krell Engineering Company, Kansas City, Kans. Hook fastening for derrick braces. 1,473,835; Nov. 13.

Braunstein, Aron, San Antonio, Tex. Automatic paper-container-making machine. 1,474,229; Nov. 13.

Braunstein, Aron, San Antonio, Tex. Sanitary nonrefilling paper bottle. 1,474,228; Nov. 13.

Breisch, Edgar W., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Rectifier. 1,473,807; Nov. 13.

Bretzfelder, Ira L., assignor to Alvey Manufacturing Company, St. Louis, Mo. Conveyer. 1,473,808; Nov. 13.

Briehl, John H., Stitzer, Wis. Milk-can closure. 1,473,951; Nov. 13.

Britten, Edwin F., jr., Maplewood, N. J., assignor to Monroe Calculating Machine Company, New York, N. Y. Calculating machine. 1,474,230; Nov. 13.

Broadwell, Edward H., Longmeadow, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. Des. 63,251; Nov. 13.

Brogan, James A., Lawrence, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Reel. 1,473,607; Nov. 13.

Brogden, Joah, Melrose Park, assignor to David Lupton's Sons Company, Philadelphia, Pa. Pipe-bending machine. 1,473,756; Nov. 13.

Broido, Benjamin N., assignor to The Superheater Company, New York, N. Y. Superheater. 1,474,065; Nov. 13.

Brown, Chalmers S., Lima, Ohio. Locking device. 1,473,986; Nov. 13.

Brown, Clarence O., and H. B. Walker, Lancaster, assignors, by mesne assignments, to The Fairfield Engineering Co., Marion, Ohio. Feeder for loading and unloading machines. 1,473,779; Nov. 13.

Brown, Frederick E., assignor to National Tube Company, Pittsburgh, Pa. Metal-shaping machine. 1,474,066; Nov. 13.

Brown, Henry J., Cleveland, Ohio. Medicinal preparation. 1,474,140; Nov. 13.

Brown, John W., Fort Scott, Kans. Combined collar and muzzle. 1,474,231; Nov. 13.

Brown, Max, Boston, Mass. Innersole. 1,473,695; Nov. 13.

Brown, William, Company. (See Sullivan, James J., assignor.)

Brust, Charles A., jr., El Dorado, Ark. Well fishing tool. 1,474,232; Nov. 13.

Bryan, Eugene C., and P. J. Sones, Haines City, Fla. Screw-holding device for automobile drive casings. 1,474,233; Nov. 13.

Buckwalter, Jacob S., Philadelphia, assignor of one-half to L. H. Shank, Paradise, Pa. Jar-cap wrench. 1,474,067; Nov. 13.

Burgess, Robert. (See Jones, Joseph H., assignor.)

Burgess, William E., assignor of one-fifth to G. F. Spence and two-fifths to A. Steinhardt, New Orleans, La. Electric water heater. 1,474,104; Nov. 13.

Burke, Paul, Green Bay, Wis. Excavator. 1,474,314; Nov. 13.

Burkett, Peter. (See Burkett, Thomas W., assignor.)

Burkett, Thomas W., Falls Creek, assignor of one-half to P. Burkett, Mayport, Pa. Chain fastener. 1,474,141; Nov. 13.

Burks, Arthur W., Decatur, Ill. Combined foot valve and strainer. 1,473,667; Nov. 13.

Burman, Samuel S., Tiffin, Ohio. Valve puller. 1,474,234; Nov. 13.

Burnham, Leland F., Fairport, N. Y., assignor to R. D. Nuttall Company. Trolley base. 1,473,809; Nov. 13.

Burns, William C., Albany, Oreg. Cuboid-support shoe. 1,473,952; Nov. 13.

Buser, Ernest E., Philadelphia, Pa. Hammer and damper springs for piano actions. 1,473,608; Nov. 13.

Bushnell, John B., Berkeley, assignor to Harris Electric Company, San Francisco, Calif. Electric-lighting system. 1,473,900; Nov. 13.

Butler, Jay H., Newark, Ohio. Body for Ford chassis. 1,474,235; Nov. 13.

Byrne, Chester P., Marysville, Calif. Wrench. 1,474,236; Nov. 13.

Byrnes, Clarence P., Sewickley, Pa. Motor-cooling system. 1,473,668; Nov. 13.

Callie, Adolph A., Detroit, Mich. Lever system for scales. 1,473,696; Nov. 13.

Calrella, Daniel, Shelton, Conn. Horn-operating mechanism. 1,474,188; Nov. 13.

Caldwell, Joseph A., Arkadelphia, Ark. Bedstead. 1,474,237; Nov. 13.

California Cyanide Company. (See Metzger, Floyd J., assignor.)

Cambridge, Walter, Berwyn, Ill. Vehicle wheel. 1,473,810; Nov. 13.

Camp, Ernest, and A. F. Schatzel, San Diego, Calif. Bottle opener. 1,474,105; Nov. 13.

Campbell, Lorn, jr., assignor to United States Welding Company, Minneapolis, Minn. Blowpipe. 1,474,189; Nov. 13.

Cantrell, Edwin B., San Francisco, and G. E. Miller, Oakland, Calif. Sleeve puller. 1,473,811; Nov. 13.

Caplinger, John D., Newark, N. J., assignor to C. A. Kellogg, New York, N. Y. Web-printing machine. 1,474,142; Nov. 13.

Carbone, Domenico, Milan, Italy. Preparation of a product for maceration of vegetable substances and the resulting product. 1,473,901; Nov. 13.

Carder, Frederick, assignor to Corning Glass Works, Corning, N. Y. Bowl. Des. 63,252; Nov. 13.

Cardwell, Charles E., assignor of one-half to M. Lancaster and one-half to M. Stewart, Houston, Tex. Collapsible bundle receptacle. Re15,720; Nov. 13.

Carmel, Joseph, assignor to F. M. Ashley, New York, N. Y. Key holder. 1,474,315; Nov. 13.

Carnegie, William L., Detroit, Mich. Ply-wood wheel. 1,473,669; Nov. 13.

Carrier, Albert H., Asheville, N. C., assignor of one-half to E. W. Grove, St. Louis, Mo. Wood-cutting machine. 1,474,337; Nov. 13.

Carroll, Arthur B., assignor to Baumgarten & Co. Incorporated, Baltimore, Md. Inking pad. 1,474,143; Nov. 13.

Carroll, Clyde H. (See Evans, John, assignor.)

Carroll, James H., Charlotte, N. C., Self-service store for a building having limited floor space. 1,474,106; Nov. 13.

Cartwright, Albert D., Toledo, Ohio, assignor of one-half to J. G. Ray, Columbus, Ohio. Horseshoe. 1,474,018; Nov. 13.

Chakov, Sievel, Philadelphia, Pa., Handle. 1,473,922; Nov. 13.

Champion Blower & Forge Company. (See Long, Charles B., assignor.)

Charbeneau, Clarence A., Mount Clemens, Mich. Exposure-identification attachment for cameras. 1,473,902; Nov. 13.

Chase, George C., South Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Selector mechanism for calculating machines. 1,474,238; Nov. 13.

Chester Machine Co., Inc. (See Augustine, Addison E., assignor.)

Chicago Railway Equipment Company. (See Rissler, A. P., and Hamilton, assignors.)

Chicago Title & Trust Co. (See Langworthy, Lyman B., assignor.)

Cinch Expansion Bolt & Engineering Company. (See Kohler, G., and Smith, assignors.)

Cincinnati Bickford Tool Company, The. (See Klausmeyer, David C., assignor.)

Cincinnati Time Recorder Company, The. (See Lawton, Hugh M., assignor.)

Clark, George W., Westfield, Mass., assignor to Westfield Manufacturing Company. Hand brake for cycles. 1,474,068; Nov. 13.

Clark, Leonard H., Los Angeles, Calif. Demountable side inclosure. 1,474,816; Nov. 13.

Clark, William, Shaker Heights Village, Ohio. Machine for heading up barrels. 1,474,069; Nov. 13.

Clements, Nils T., Superior, Wis. Outlet-box construction. 1,473,812; Nov. 13.

Coast Envelope Company. (See Hall, George W., assignor.)

Coe, John P. (See Hopkinson, E., and Coe.)

Collins, George S., Meadville, Pa. Locking device for plugs. 1,474,239; Nov. 13.

Collins, John H., deceased, Los Angeles, Calif., L. P. Collins, administratrix. Pump. 1,474,317; Nov. 13.

Collins, Lottie P., administratrix. (See Collins, John H.)

Columbus Heating and Ventilating Company, The. (See Wolfe, Jay A., assignor.)

Compton, L. T. (See Akers, John M. and W. C., assignors.)

Conness, William E., Los Angeles, Calif. Duplex turbine motor. 1,474,318; Nov. 13.

Consolidated Car-Heating Company. (See Hynes, Lee P., assignor.)

Coo, Thomas J., assignor to Victory Automobile Accessories Limited, Toronto, Ontario, Canada. Doorlatch. 1,473,836; Nov. 13.

Cook, Albert, Holyoke, Mass. Rotary clearer. 1,474,144; Nov. 13.

Cook Electric Company. (See Folds, George R., assignor.)

Cook Electric Company. (See Sands, Roy G., assignor.)

Cooper, Benson P., Ithaca, N. Y. Coin-controlled delivery apparatus. 1,474,070; Nov. 13.

Corl, Robert M., Maumee, assignor, by mesne assignments, to Erie Glass Company, Toledo, Ohio. Method and apparatus for forming glass. 1,474,019; Nov. 13.

Corning Glass Works. (See Carder, Frederick, assignor.)

Corpe, Edward P., Northampton, England. Tack-extracting machine for boots and shoes. 1,473,923; Nov. 13.

Cottam, Robert, Oldham, T. Sefton, Shaw, and J. E. Lees, Oldham, England. Roller for drawing mechanisms for fibrous material. 1,474,020; Nov. 13.

Cottam, Robert, Oldham, T. Sefton, Shaw, and J. E. Lees, Oldham, England. Roller for drawing mechanism for fibrous material. 1,474,021; Nov. 13.

Cottam, Robert, Oldham, T. Sefton, Shaw, and J. E. Lees, Oldham, England. Roller for drawing mechanism for fibrous material. 1,474,022; Nov. 13.

Cottam, Robert, Oldham, T. Sefton, Shaw, and J. E. Lees, Oldham, England. Roller for drawing mechanism for fibrous material. 1,474,023; Nov. 13.

Cowles, Burton S., Wilkes-Barre, Pa. Piston and piston ring and making the same. 1,474,024; Nov. 13.

Crane, Louis, New York, N. Y. Alarm-clock release for phonographs. 1,474,240; Nov. 13.

Crapper, John J., Brooklyn, N. Y. Trolley sheave. 1,474,241; Nov. 13.

Crispen, Clarence C., Harrisburg, Pa. Elevator for stairways. 1,473,813; Nov. 13.

Crites, Cleo H. (See Eyre, H. G., and Crites.)

Croom, Thomas L., assignor of one-half to C. C. Henry, Los Angeles, Calif. Can opener. 1,473,780; Nov. 13.

Crosby, Fred B., assignor to Morgan Construction Company, Worcester, Mass. Handling hot-metal strip and apparatus therefor. 1,474,319; Nov. 13.

Crosthwait, David N., jr. (See Crosthwait, David N., sr., assignor.)

Crosthwait, David N., sr., Kansas City, Mo., assignor to D. N. Crosthwait, jr., Marshalltown, Iowa. Forming radiators. 1,473,670; Nov. 13.

Crowther, John S., jr., Toledo, Ohio. Apparatus for detecting leaks in blast-furnace-cooling appliances. 1,474,071; Nov. 13.

Culver, Charles A., Beloit, Wis. Acoustic receiving apparatus. 1,474,242; Nov. 13.

Cumfer, Harry A., Chicago, Ill., assignor of one-half to A. D. Stewart, Hutchinson, Kans. Plaster-receiving board. 1,474,145; Nov. 13.

Cummer, Frederick H., Great Neck, N. Y. Portable drier. 1,473,697; Nov. 13.

Cushman, Everett B., Lansing, Mich., assignor to Bean Spray Pump Co., San Jose, Calif. Diaphragm pump. 1,473,924; Nov. 13.

Dahmen, Carl H., Allentown, Pa. Ventilating flue. 1,474,072; Nov. 13.

Dalton Adding Machine Company, The. (See Landsiedel, Harry, assignor.)

Dalton, Daniel J., and W. A. Biondi, Cincinnati, Ohio. Safety-razor-blade holder. 1,474,107; Nov. 13.

Dart, Eric, Kelowna, British Columbia, Canada. Thimble. 1,473,953; Nov. 13.

Davenport, Wesley M., assignor to Elgin Auto Tool Company, Elgin, Ill. Hose clamp. 1,473,609; Nov. 13.

Davidson, John, jr., Trenton, N. J., assignor to American Telephone and Telegraph Company. Telephone-exchange system. 1,473,671; Nov. 13.

Davis, John M., East Cleveland, Ohio, assignor to The Kelly Reamer Company, Cleveland, Ohio. Tool for boring and reaming holes in metal. 1,473,781; Nov. 13.

Day, Thomas E., Belleville, N. J., assignor, by mesne assignments, to Hibbard Process Corporation, New York, N. Y. Squeezer. 1,473,610; Nov. 13.

Decorative Arts League. (See Macdonald, Angus S., assignor.)

Deep Well Engineering Company, The. (See Brandon, Arthur H., assignor.)

Deere & Company. (See Neighbour, Leonard B., assignor.)

Delarmi, Rocco, New York, N. Y. Egg tray. Des. 63,253; Nov. 13.

De Long, Edward R. (See Wood, C. D., and De Long.)

De Mattia, Barthold, Clifton, N. J. Pedal pad. 1,474,320; Nov. 13.

De Mattia, Peter, Clifton, N. J. Grinding machine. 1,474,321; Nov. 13.

Denk, Emil S., St. Louis, Mo. Marking enameled ware. 1,473,903; Nov. 13.

Dennis, Gibbons J., Kiefer, Okla. Clamp for tanks. 1,474,243; Nov. 13.

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Trimming device for sewing machines. 1,473,611; Nov. 13.

Dewey, Clarence L., Chicago, Ill. Decoy. 1,473,612; Nov. 13.

Di Felippo, Saverio, Trenton, N. J. Rotary cutter. 1,473,698; Nov. 13.

Dirienzo, Joseph M., Madison, Wis. Separable rim. 1,474,244; Nov. 13.

Dittmann, George W., Cincinnati, Ohio. Violin chin rest. 1,473,672; Nov. 13.

Diesk, John, Berwyn, Ill., assignor to U. S. Ball Bearing Manufacturing Company, Chicago, Ill. Dies for forming ball retainers. 1,474,073; Nov. 13.

Doble, Ralph N., Bay Side, N. Y., assignor, by mesne assignments, to State Street Trust Company, trustee, Boston, Mass. Slide-top container. 1,473,782; Nov. 13.

Domestic Electric Company, The. (See Spielman, M. H., and Goldrick, assignors.)

Donelson, Martin, Memphis, Tenn. Suture instrument. 1,474,245; Nov. 13.

Donovan, Frederick L., Cambridge, Mass. Display device. 1,474,246; Nov. 13.

Dorsey, David J., Baton Rouge, La. Soot blower. 1,473,757; Nov. 13.

Douglas, Hammond B., Worcester, Mass., assignor to The Washburn Company. Soap shaker. 1,473,783; Nov. 13.

Douglas, John H., Bradford, Pa. Fire kindler. 1,473,837; Nov. 13.

Dovey, Starr A. (See Goodsell, J. A., and Dovey.)

Dow Chemical Company, The. (See Morrison, Charles N., assignor.)

Dow Chemical Company, The. (See Strosacker, C. J., and Rupright, assignors.)

Dow, James C., Great Falls, Mont. Process of electric smelting and furnace for same. 1,473,784; Nov. 13.

Dowd, William C., Quincy, Ill. Centrifugal pump. 1,473,904; Nov. 13.

Downey, John F., assignor to Universal Safety Ash Tray Company, Inc., Providence, R. I. Forming decorated ash trays. 1,474,108; Nov. 13.

Driessen, Jean, Paris, France. Lever arm for switches, rheostats, and like electric devices. 1,473,838; Nov. 13.

Drushel, William A., assignor to Haskelite Manufacturing Corporation, Grand Rapids, Mich. Water-resistant glue. 1,473,987; Nov. 13.

Dryer, Edwin H., Bakersfield, Calif. Container and spout. 1,473,925; Nov. 13.

Ducorron, Charles A. F., assignor to Ducorron-Rich Engineering Company, Los Angeles, Calif. Bottle holder. 1,473,322; Nov. 13.

Ducorron-Rich Engineering Company. (See Ducorron, Charles A. F., assignor.)

Dudley, Hettie J., Richmond, Va. Fancy bag. Des. 63,254; Nov. 13.

Dunsmore, Alexander F. (See Robertson, A. R., and Dunsmore.)

Du Pont, E. I. de Nemours & Company. (See Bayard, Frederick W., assignor.)

Du Pont, E. I. de Nemours & Company. (See Henning, Clarence I. B., assignor.)

Du Pont, E. I. de Nemours & Company. (See Marshall, John, assignor.)

Dupont, Jules C. M., Valenciennes, France. Saddle support adaptable to cycles and motor cycles. 1,474,109; Nov. 13.

Durand, Victor, jr., Vineland, N. J. Receptacle. 1,473,814; Nov. 13.

Dutour, Jean B., San Francisco, Calif. Carburetor. 1,473,720; Nov. 13.

Dvorak, Anton, Berwyn, assignor to Beardslee Chandelier Manufacturing Company, Chicago, Ill. Finial for lighting fixtures or lamps. Des. 63,255; Nov. 13.

Eastman Kodak Company. (See Speidel, Charles F., assignor.)

Easton, George C., Ridgewood, N. J. Game apparatus. 1,473,954; Nov. 13.

Eaton, Harrison H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Dust-collecting device. 1,473,613; Nov. 13.
Eberley, Frank L., Whitesboro, N. Y., assignor of one-half to McLoughlin Textile Corporation, Utica, N. Y. Button stringer. 1,473,955; Nov. 13.
Eclipse Machine Company. (See Abell, Arthur H., assignor.)
Edson, William, Harrison, N. Y. Valve stem and guide lubricator. 1,473,839; Nov. 13.
Elseman, Kaye Company. (See Kaye, Joseph M., assignor.)
Electric Milker Corporation. (See Gessler, F. A., and Mitchell, assignors.)
Elgin Auto Tool Company. (See Davenport, Wesley M., assignor.)
Elmblad, Hjalmar, Chicago, Ill. Writing machine. 1,474,247; Nov. 13.
Elsas, Edward J., Scott City, Kans. Holder for artificial sets of teeth. 1,473,673; Nov. 13.
Emerson, Victor L., Philadelphia, Pa. Tool for power-operated riveting devices or hammers. 1,474,025; Nov. 13.
Emslie, David W., Cleveland, Ohio. Doorstop. 1,473,926; Nov. 13.
Enache, Cociu, Dallas, Tex. Railway safety gate. 1,473,905; Nov. 13.
English, Arthur, Kankakee, Ill. Container for coloring-agent capsules. 1,474,248; Nov. 13.
Erie Glass Company. (See Corl, Robert M., assignor.)
Espenschied, Lloyd, Queens, N. Y., assignor to American Telephone and Telegraph Company. Means for and method of modulation. 1,473,674; Nov. 13.
Evans, John, Toronto, Ohio, assignor of one-third to C. H. Carroll, Martins Ferry, Ohio. Tin-sheet separator. 1,473,927; Nov. 13.
Everett, Ira, Sayre, Pa. Railway-car-coupler uncoupling device. 1,473,721; Nov. 13.
Excelsior Steel Furnace Company, The. (See Scherer, Albert G., assignor.)
Exolon Company, The. (See Harty, William A., assignor.)
Eyre, Harry G., and C. H. Crites, Topeka, Kans. Attachment for motor cycles. 1,473,956; Nov. 13.
Eyre, Reginald. (See Payne, A. C., and Eyre.)
Fairfield Engineering Co., The. (See Brown, C. O., and Walker, assignors.)
Falletta, Hector, San Francisco, Calif. Disinfecting nozzle. 1,473,840; Nov. 13.
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-valve device. 1,473,750; Nov. 13.
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Feed-valve device. 1,473,758; Nov. 13.
Farum, Elecie P., Oakland, assignor to L. Gillig and C. H. Gillig, San Francisco, Calif. Sliding-window mechanism. 1,473,928; Nov. 13.
Featherstone, Chase C. (See Whipple, R. L., Rockwell, and Featherstone.)
Feldkamp, Frederick A., Newark, N. J. Fuse cartridge. 1,474,146; Nov. 13.
Ferrero, John, Angels Camp, Calif. Adjustable platform. 1,474,249; Nov. 13.
Fersdahl, Henry J., Renner, S. Dak. Hay loader. 1,473,614; Nov. 13.
First National Bank in St. Louis. (See Small, Chesley T., assignor.)
Fisher, Aldus, Malvern, Pa. Safety device for track switches and signals. 1,473,841; Nov. 13.
Fisher Body Corporation. (See Abbott, R. E., and Beyster, assignors.)
Fisk Rubber Company, The. (See Broadwell, Edward H., assignor.)
Fisk Rubber Company, The. (See Lewis, George H., assignor.)
Fitz-Empire Double Pivot Last Company. (See Potter, Frederic W., assignor.)
Flarsheim, Edwin S. (See Liebel, J. G. H., and Flarsheim.)
Flower, John W., assignor, by mesne assignments, to Michigan Valve Foundry and Engineering Company, Detroit, Mich. Gate valve. 1,474,026; Nov. 13.
Fogh, Carl S., assignor to Ore Roasting Development Company, Philadelphia, Pa. Furnacing process. 1,473,722; Nov. 13.
Fogh, Carl S., Philadelphia, Pa. Producing elemental sulphur. 1,473,723; Nov. 13.
Folds, George R., assignor to Cook Electric Company, Chicago, Ill. Electric fuse. 1,473,615; Nov. 13.
Folliard, Frank, Brooklyn, N. Y. Combined stepladder and scaffold. 1,474,250; Nov. 13.
Follin, Werner E., Jamestown, R. I. Torpedo. 1,474,027; Nov. 13.
Forbes, Cullen C., Lubbock, Tex. Grain-heading machine. 1,474,251; Nov. 13.
Forrest, William Y. (See Sartakoff, J. D., and Forrest.)
Fowler, Claude F. (See Lalle, P. A., and Fowler.)
Fowler, William E., jr., Pittsburgh, Pa., assignor to Liberty Steel Products Company, Inc. Brake-beam strut. 1,474,110; Nov. 13.
Fox, Frank H. (See Wallace, P. B., and Fox.)
Fox, Lena E., Satanta, Kans. Stiffener for skirt bands and the like. 1,474,100; Nov. 13.
Francke, Rudolph C., Milwaukee, Wis. Box-car unloader. 1,473,815; Nov. 13.
Fraser, William C., Buffalo, N. Y. Case hanger. 1,473,699; Nov. 13.
Frederick, Louis T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Structural element. 1,473,842; Nov. 13.
Freedman, Louis A., New York, N. Y. Winding indicator for talking machines. 1,473,929; Nov. 13.
Freedman, Louis A., New York, N. Y. Winding indicator for talking machines. 1,473,930; Nov. 13.
Freeze, John A., Sayreville, N. J. Collapsible chair. 1,474,191; Nov. 13.
Fretz, Samuel S., sr. (See Hartzell, Morris H., assignor.)
Freyn, Brassert & Company. (See Wilcox, Frederick H., assignor.)
Fried. Krupp Aktiengesellschaft. (See Schön, Ludwig, assignor.)
Fried. Krupp Aktiengesellschaft. (See Thun, Hermann, assignor.)
Friedley Voshardt Co. (See Mohrmann, Paul, assignor.)
Fuehrer, Jacob J., assignor of one-fourth to E. J. Patterson, Central City, Nebr., and one-fourth to the Firm of Jacobi, Washington, D. C. Nail catcher. 1,474,074; Nov. 13.
Fuerstenberg, Adam, Watson, Saskatchewan, Canada. Self-opening garage door. 1,473,843; Nov. 13.
Fuller & Johnson Mfg. Co. (See Gore, Warren W., assignor.)
Furlong, James J., Tacoma, Wash. Collar fastener. 1,474,252; Nov. 13.
Gabrielson, Carl, assignor to L. C. Smith & Bros. Typewriter Co., Syracuse, N. Y. Ribbon spool for typewriting machines. 1,474,111; Nov. 13.
Gallaugher, Francis V., Lake Charles, La. Ventilator for automobiles. 1,474,075; Nov. 13.
Gansz, Harry G., Cincinnati, Ohio. Tube and closure. 1,474,253; Nov. 13.
Garbarini, André, Courbevoie, France. Gas-heating radiator. 1,473,844; Nov. 13.
Gardon, Ambroise, Meacham, Saskatchewan, Canada. Collapsible granary. 1,473,845; Nov. 13.
Garland, Claude M., Chicago, Ill. Retort for the distillation of shale, bituminous coal, and other materials. 1,473,616; Nov. 13.
Garman, Harry B., Detroit, Mich., assignor to The Steel Products Company, Cleveland, Ohio. Dustguard for drag links. 1,473,931; Nov. 13.
Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Rotating mechanism for percussive tools. 1,474,338; Nov. 13.
Gasau-Thompson Company. (See McKellar, Judson L., assignor.)
Gatchell, George S., Roselle Park, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing-machine guide. 1,473,617; Nov. 13.
Gault, James H., Philadelphia, Pa. Card-punching machine. 1,473,618; Nov. 13.
Geibel, John F., Buffalo, N. Y. Mounting for centrifugal clothes wringers. 1,474,323; Nov. 13.
Geist Manufacturing Company. (See Wiederwax, Robert W., assignor.)
Gem City Stove Manufacturing Company. (See Specht, Adolph, assignor.)
General Electric Company. (See Schuchardt, Rudolph F., assignor.)
General Explosives Company. (See Sturgis, William B., assignor.)
Gerhardt, Louis J., West New York, N. J. Eyeshade. 1,473,619; Nov. 13.
Gerstle, Jules, New York, N. Y. Humidor. 1,474,254; Nov. 13.
Gessler, Frederick A., La Grange, Ill., and R. B. Mitchell, Hillsdale, Mich., assignors to Electric Milker Corporation, Chicago, Ill. Relief valve. 1,474,192; Nov. 13.
Gibson, John G., jr., Atlantic City, N. J. Grate structure. 1,473,846; Nov. 13.
Gibson, Robert H., Carbon, Alberta, Canada. Pump pipe lift. 1,473,724; Nov. 13.
Gillaspy, George W., Pendleton, Oreg. Band-saw guide. 1,474,255; Nov. 13.
Gillig, Chester H., et al. (See Farum, Elecie P., assignor.)
Gillig, William. (See Vanderhoof, H., and Gillig.)
Gillinder & Sons, Inc. (See Gillinder, Edgar A., assignor.)
Gillinder, Edgar A., assignor to Gillinder & Sons, Inc., Philadelphia, Pa. Glass hall illuminating bowl. Des. 63,256; Nov. 13.
Gilmore, Willis B., Idaho Springs, Colo. Animal trap. 1,473,847; Nov. 13.
Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Uncoupling device for car couplers. 1,474,193; Nov. 13.
Ginn, Percy E. (See Johnson, Harry L., assignor.)
Gluck, Julius, assignor to American Taximeter Company, New York, N. Y. Recording device for taximeters. 1,473,816; Nov. 13.
Godard, Luis. (See Larrey, T., and Godard.)
Goddard, George E., assignor to Packard Motor Car Company, Detroit, Mich. Windshield. 1,473,848; Nov. 13.
Goddard, Walter T., Victor, N. Y., assignor, by mesne assignments, to Locke Insulator Corporation, Baltimore, Md. Insulator. 1,474,256; Nov. 13.
Goldrick, Albert R. (See Spielman, M. H., and Goldrick.)

Goldsmith, Byron B., New York, N. Y. Ink cartridge. 1,473,700; Nov. 13.
Goldsmith, Byron B., New York, N. Y. Inkstand for soluble ink. 1,473,701; Nov. 13.
Goldsmith, Hugo, assignor to The P. Goldsmith Sons Company, Cincinnati, Ohio. Fielder's glove. 1,473,849; Nov. 13.
Goldsmith, P., Sons Company, The. (See Goldsmith, Hugo, assignor.)
Goldstein, Milton M., Minneapolis, Minn. Composition for cleaning enameled surfaces. 1,473,620; Nov. 13.
Goodman Manufacturing Company. (See Sloane, William W., assignor.)
Goodsell, James A., and S. A. Dovey, Hudson, Mich. Mechanism for connecting the speedometer with the power shaft of a motor vehicle. 1,473,988; Nov. 13.
Gore, Warren W., assignor to Fuller & Johnson Mfg. Co., Madison, Wis. Dust sprayer. 1,473,785; Nov. 13.
Gore, Warren W., assignor to Fuller & Johnson Mfg. Co., Madison, Wis. Dust sprayer. 1,473,786; Nov. 13.
Gore, Warren W., assignor to Fuller & Johnson Mfg. Co., Madison, Wis. Dust sprayer. 1,473,787; Nov. 13.
Gorman, Eugene J. B., Dayton, Ohio. Valve. 1,473,621; Nov. 13.
Gorsline, Hathaway M., assignor to Kawneer Manufacturing Company, Niles, Mich. Metal frame and interlocking joint. 1,473,817; Nov. 13.
Gosch, William H., assignor to The Nolde & Horst Co., Reading, Pa. Embroidery frame. 1,473,622; Nov. 13.
Gotlisar, Theodore H., Newark, N. J. Constructing hand bags. 1,473,932; Nov. 13.
Gould Coupler Company. (See Sauvage, William H., assignor.)
Grand Specialties Company. (See Sasgen, Michael J., assignor.)
Grant, Frank, Westfield, Mass. Holder for shaving-soap sticks. 1,473,760; Nov. 13.
Grant, Hugo B., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Fuel-elevating device. 1,473,761; Nov. 13.
Gray, John L., Elizabeth, N. J. Distilling and cracking petroleum. 1,474,147; Nov. 13.
Green, David H., San Francisco, Calif. Corn file. 1,473,933; Nov. 13.
Greene, Edward J., Toledo, Ohio. Serve-self motor store. 1,473,850; Nov. 13.
Greenwood, Levi H., et al., trustees. (See Lloyd, Marshall B., assignor.)
Greer, James B., Pittsburgh, Pa. Glass-banding machine. 1,473,762; Nov. 13.
Grimm, George E., assignor to The Willys-Overland Company, Toledo, Ohio. Windshield latch. 1,474,076; Nov. 13.
Groene, William F., assignor, by mesne assignments, to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Combined clutch and brake device. 1,474,112; Nov. 13.
Grove, Edwin W. (See Carrier, Albert H., assignor.)
Gruen, Frederick G., assignor to The Gruen Watch Company, Cincinnati, Ohio. Winding mechanism for watches. 1,473,763; Nov. 13.
Gruen Watch Company, The. (See Gruen, Frederick G., assignor.)
Guesmer, Arnold L., Minneapolis, Minn. Heating device for mangles. 1,473,764; Nov. 13.
Gulledge, William T., Matthews, N. C. Tire mounting. 1,473,623; Nov. 13.
Grundhand, Louis, and O. Iseli, Salt Lake City, Utah. Can holder and opener. 1,474,077; Nov. 13.
Guthridge, Ada L. and F. G., Chicago, Ill.; said F. G. Guthridge assignor to said Ada L. Guthridge. Combined chair and display rack. 1,473,702; Nov. 13.
Guthridge, Frank G. (See Guthridge, Ada L. and F. G.)
Haggard, Delmar, et al. (See Marmon, Albert W., assignor.)
Hall, George W., Alhambra, assignor to Coast Envelope Company, Los Angeles, Calif. Combination envelope. 1,474,194; Nov. 13.
Hall, John L., Ames, Iowa. Combined pliers and chain tightener. 1,473,851; Nov. 13.
Hall, Loyel C., Portland, Oreg. Impulse starter and ignition booster for internal-combustion engines. 1,473,725; Nov. 13.
Hallenbeck, George E., assignor to Baker Brothers, Toledo, Ohio. Machine tool. 1,473,624; Nov. 13.
Hallinan, William W., Pueblo, Colo. Air inspirator for engines. 1,473,726; Nov. 13.
Halversen, Hans N., Vineland, N. J., assignor to Kimble Glass Company, Chicago, Ill. Glazing machine. 1,473,675; Nov. 13.
Hamilton, Walter G. (See Rissler, A. P., and Hamilton.)
Hammer, Edwin B. (See Knott, H. H., Jungbluth, and Hammer.)
Hamm, William S., Hubbard Woods, Ill., assignor to The Adams & Westlake Company. Door latch. 1,474,028; Nov. 13.
Hamren, Eric O., Chicago, Ill. Coupling device. 1,473,625; Nov. 13.
Hamren, Eric O., Chicago, Ill. Friction clutch. 1,473,626; Nov. 13.
Hanke, August J., Chicago, Ill. Floor mop. 1,474,031; Nov. 13.
Hanrath, Theodore W., Chicago, Ill. Buffing wheel. 1,473,765; Nov. 13.
Hans Renold Limited. (See Herford, R. O., and Renshaw, assignors.)
Harrell, Louis S., Baton Rouge, La. Oiler. 1,473,852; Nov. 13.
Harrington, William F., assignor to The Willys-Overland Company, Toledo, Ohio. Valve-adjusting mechanism. 1,474,078; Nov. 13.
Harris, Carl C., Orange, Mass., assignor to Rivet-O Manufacturing Company, Package. 1,474,113; Nov. 13.
Harris, Carl C., assignor to Rodney Hunt Machine Company, Orange, Mass. Wedge for use in wood rolls and the like. 1,474,114; Nov. 13.
Harris Electric Company. (See Bushnell, John B., assignor.)
Harris, Isaac F., Tuckahoe, N. Y. Vitamine solution. 1,474,029; Nov. 13.
Harrison, Jesse H., and M. Walker, Manly, Iowa. Safety-appliance step. 1,474,257; Nov. 13.
Hartford Rubber Works Company, The. (See Hopkinson, E., and Coe, assignors.)
Harty, William A., Buffalo, N. Y., assignor to The Exolon Company, Boston, Mass. Refractory article and making the same. 1,473,853; Nov. 13.
Hartzell, Morris H., assignor to S. S. Fretz, sr., Philadelphia, Pa. Folding umbrella. 1,473,906; Nov. 13.
Haskelite Manufacturing Corporation. (See Drushel, William A., assignor.)
Haskelite Manufacturing Corporation. (See Norris, Charles B., assignor.)
Hatch, Arthur G., Duluth, Minn. Building block. 1,473,627; Nov. 13.
Hatheway, William E., Bridgeport, Conn. Webbing clip hook for buckles. 1,474,030; Nov. 13.
Hauserman, George F., Bartow, Fla. Drier. 1,474,258; Nov. 13.
Headley, Frederick H., assignor to Tan Sad Limited, Birmingham, England. Spring suspension mechanism for vehicles. Re15,721; Nov. 13.
Healy, Charles F., New York, N. Y. Toothbrush. 1,473,766; Nov. 13.
Healy, Leon J. D., assignor to Wright Rubber Products Company, Racine, Wis. Floor or wall covering. 1,473,767; Nov. 13.
Heather, Frederick, Kenilworth, near Cape Town, South Africa. Means for silencing explosion noises connected with motor cars, motor vehicles; cycle, gas, oil, and steam engines. 1,474,115; Nov. 13.
Heess, Jacob, Ebertsheim, Germany, assignor to R. J. Marx, London, England. Extracting moisture from plastic material. 1,474,259; Nov. 13.
Hecht, Earl A., Mansfield, Ohio. Tire tread. Des. 63,257; Nov. 13.
Hecht, Earl A., Mansfield, Ohio. Tire tread. Des. 63,258; Nov. 13.
Heidland, Herman, St. Louis, Mo. Drawer pull. 1,473,854; Nov. 13.
Hein, Adolph J., Sioux City, Iowa. Pump. 1,474,260; Nov. 13.
Heising, Raymond A., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. System for producing modulated waves. Re15,722; Nov. 13.
Helmkee, Jacob, Kenmore, assignor to J. H. La Croix, Cleveland, Ohio. Heating furnace. 1,474,032; Nov. 13.
Hendrix, Charles E., Jefferson City, Mo. Humidifier. 1,473,676; Nov. 13.
Henning, Clarence I. B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Priming mixture for propellant explosives. 1,473,818; Nov. 13.
Henry, C. C. (See Croom, Thomas L., assignor.)
Herford, Robert O., and A. Renshaw, assignors to Hans Renold Limited, Manchester, Lancaster, England. Method of and apparatus for making bushes and rollers for gear chains. 1,473,855; Nov. 13.
Herreshoff, Alexander G., Bristol, R. I. Selective-type change-speed transmission. 1,474,033; Nov. 13.
Herring, Ell. (See Leffingwell, Albert L., assignor.)
Hettrich, John, Lincoln, Nebr. Mechanical movement. 1,473,907; Nov. 13.
Hibbard Process Corporation. (See Day, Thomas E., assignor.)
Hildebrand, Henry F., San Antonio, Tex. Tuyère. 1,473,934; Nov. 13.
Hoe, R., and Co. (See Sheldon, Edward P., assignor.)
Hoff, Adam F., Binghamton, N. Y. Combined wind deflector and antiglare device. 1,474,034; Nov. 13.
Hoffman, Alfred, Kew Gardens, N. Y., assignor to Alco Deo Company, Washington, N. J. Making mesityl oxide, etc. 1,474,035; Nov. 13.
Hoffman, Philip M. (See Kemper, J. H., Hoffman, and Teetor.)
Hoffman, Richard A., Rosebank, N. Y. Turnbuckle lock. 1,473,677; Nov. 13.
Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Kitchen cabinet. 1,473,703; Nov. 13.
Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Cook stove. 1,473,704; Nov. 13.
Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Oil stove. 1,473,819; Nov. 13.

Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Control mechanism for typewriters. 1,473,705; Nov. 13.
Holed Tite Egg Packing Corporation. (See Mann, L., and Koppelman, assignors.)
Hollenbeck, Oscar E., assignor to Racine Horseshoe Tire Company, Racine, Wis. Vehicle tire tread. Des. 63,259; Nov. 13.
Holman, William E., et al., trustees. (See Lloyd, Marshall B., assignor.)
Holmes, Chandler F. (See Hoyt, F., and Holmes.)
Holmquist, John A., Woodlawn, Pa. Reel carrier. 1,473,678; Nov. 13.
Holtfoth, Joachim T., Highland Park, assignor to L. A. Young Industries, Incorporated, Detroit, Mich. Cushion-spring-assembling machine. 1,473,989; Nov. 13.
Holton, Birchard E., Los Angeles, Calif. Air brush. 1,474,324; Nov. 13.
Hope Webbing Company. (See Horton, Charles A., assignor.)
Hopkins, Ralph Z., Detroit, Mich. Building construction. 1,474,148; Nov. 13.
Hopkinson, Ernest, and J. P. Coe, New York, N. Y.; said Coe assignor of his entire right to The Hartford Rubber Works Company. Process and apparatus for manufacturing tire casings. 1,474,149; Nov. 13.
Hoppe, Fredrick G. (See Lauter, I., and Hoppe.)
Horton, Charles A., Providence, assignor to Hope Webbing Company, Pawtucket, R. I. Webbing fabric. 1,474,079; Nov. 13.
Horton, John T., Brooklyn, N. Y. Derrick base. 1,473,935; Nov. 13.
Hosack, Harold H., Farnham, England. Pouring or teeming of molten steel or metal into ingot or like molds. 1,474,261; Nov. 13.
Hottel, Louis W., Chicago, Ill. Reenforced ribbed pneumatic tube. 1,473,768; Nov. 13.
Hough, Herbert D., Cranston, assignor to Wightman & Hough Company, Providence, R. I. Belt buckle. 1,473,727; Nov. 13.
Hoyt, Frank, and C. F. Holmes, Newburyport, Mass. Locking device and alarm for automobiles. 1,474,262; Nov. 13.
Hubbard, Arthur O., Minneapolis, Minn. Clothes-wringer frame. 1,473,769; Nov. 13.
Huber, Frederick W., Riverside, Calif. Cement mixer. 1,473,990; Nov. 13.
Hughes, James W., Wyncote, assignor to W. H. Stehle, Philadelphia, Pa. Drilling apparatus. 1,474,036; Nov. 13.
Hughes, William, Alameda, Calif. Milk-bottle opener. 1,473,936; Nov. 13.
Humphrey, Ernest N., New Britain, Conn. Belt buckle. 1,473,991; Nov. 13.
Huston, Charles C., Dayton, Ohio. Traction device for vehicle wheels. 1,473,957; Nov. 13.
Hutchens, Jiles J., et al. (See Marmon, Albert W., assignor.)
Hvid, Rasmus M., Chicago, Ill. Internal-combustion engine. 1,473,770; Nov. 13.
Hynes, Lee P., assignor to Consolidated Car-Heating Company, Albany, N. Y. Electric heating system. 1,474,150; Nov. 13.
Ideal Utilities, The. (See Barry, Howard F., assignor.)
Ingersoll-Rand Company. (See Morrow, Howard W., assignor.)
International Motor Company. (See Masury, A. F., and Bolger, assignors.)
Isaacs, Mortimer, Helena, Ark. Road sign. Des. 63,260; Nov. 13.
Iseli, Otto. (See Grundhand, L., and Iseli.)
Jacobi & Jacobi, et al. (See Fuehrer, Jacob J., assignor.)
Jacobs, Arthur E., Cleveland Heights Village, Ohio. Single-coin-registering bank. 1,474,332; Nov. 13.
Jacobs, Arthur E., Cleveland Heights Village, Ohio. Multiple-coin-registering bank. 1,474,333; Nov. 13.
Jacquelin, Armand, Paris, France. Washing apparatus with multiple ascending currents. 1,473,788; Nov. 13.
Jaeger, Walter, Hoboken, N. J. Combined vehicle fender and bumper. 1,474,263; Nov. 13.
James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch terminal. 1,473,856; Nov. 13.
Jeannin Electric Company, The. (See Jeannin, Harry W., assignor.)
Jeannin, Harry W., assignor to The Jeannin Electric Company, Toledo, Ohio. Alternating-current motor. 1,474,037; Nov. 13.
Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)
Jennings, Robert G., Elmira, N. Y. Yarn cleaner. 1,473,908; Nov. 13.
Johnson, Edgar D., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone repeater circuits. 1,474,038; Nov. 13.
Johnson, Harry L., assignor to P. E. Ginn, Jamaica Plain, Mass. Package-sealing machine. 1,473,992; Nov. 13.
Johnson, Leonard T., Boston, Mass. Weighing mechanism. 1,474,039; Nov. 13.
Johnson, Morris R., Birmingham, Ala. Apparatus for conveying plastic material. 1,473,958; Nov. 13.
Johnson, Tomlinson F., jr., Atlanta, Ga. Circuit-opening device. 1,473,959; Nov. 13.
Johnson, Tomlinson F., jr., Atlanta, Ga. Throw-off or circuit-breaking switch for skeet heads. 1,473,960; Nov. 13.
Jones, James C., and A. C. Kreutzer, Philadelphia, Pa. Split gear. 1,473,706; Nov. 13.
Jones, Joseph H., Winthrop, assignor of one-half to R. Burgess, Newton Center, Mass. Stop-motion mechanism for spinning frames. 1,474,040; Nov. 13.
Joyce, Bryan P., Davenport, Iowa. Trail for gun carriages. 1,473,628; Nov. 13.
Jungbluth, Carl J. (See Knott, H. H., Jungbluth, and Hammer.)
Kadel, Byers W., Baltimore, Md. Car construction. 1,473,909; Nov. 13.
Kalenoff, Godel, St. Louis, Mo. Cutting machine. 1,473,629; Nov. 13.
Kallmeyer, Theophilus, Santa Paula, Calif. Revolving piston. 1,474,325; Nov. 13.
Karp, George, Long Island City, N. Y. Cigar container and humidor. 1,474,264; Nov. 13.
Kanfle, Henry A., Charleroi, Pa. Washing machine. 1,474,041; Nov. 13.
Kawneer Manufacturing Company. (See Gorsline, Hathaway M., assignor.)
Kaye, Joseph M., assignor to Eiseman, Kaye Company, Chicago, Ill. Keyless lock. 1,474,042; Nov. 13.
Kec, Frank, Prague, Czechoslovakia. Motor plow. 1,473,630; Nov. 13.
Keeler, Earl A., Norristown, assignor to Leeds & Northrup Company, Philadelphia, Pa. Electrode for ion concentration effects. 1,474,151; Nov. 13.
Keiper, John R., New York, N. Y. Ornamenting billiard cues and the like. 1,474,043; Nov. 13.
Keldsen, John J., Atlantic, Iowa. Window screen and storm sash combined. 1,473,631; Nov. 13.
Kellogg, Carl A. (See Caplinger, John D., assignor.)
Kelly Reamer Company, The. (See Davie, John M., assignor.)
Kemper, James H., P. M. Hoffmann, and J. M. Teetor, Indianapolis, Ind. Hinge for change receivers. 1,473,771; Nov. 13.
Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Mold. 1,473,857; Nov. 13.
Kenner, Duncan, New Orleans, La. Wire-binding device. 1,474,265; Nov. 13.
Kent, Arthur A., Ardmore, Pa. Induction coil. 1,474,152; Nov. 13.
Ketterer, Charles A., East St. Louis, Ill. Container. 1,474,326; Nov. 13.
Keyworth, George A., et al., trustees. (See Lloyd, Marshall B., assignor.)
Killfeather, Gertrude, Spokane, Wash. Body garment. 1,473,789; Nov. 13.
Kimble Glass Company. (See Halversen, Hans N., assignor.)
King, Fred B., assignor to The Willys-Overland Company, Toledo, Ohio. Spring-seat cushion. 1,474,080; Nov. 13.
Kalenoff, Godel, St. Louis, Mo. Cutting machine. 1,473,629; Nov. 13.
Klausmeyer, David C., Cincinnati, assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio. Automatic throw-out for power feed. 1,474,339; Nov. 13.
Klein, Benjamin W., Mount Vernon, N. Y. Means for detachably connecting an operating member to a power-driven shaft. 1,474,153; Nov. 13.
Knight, Herbert M. (See Long, Eugene M., assignor.)
Knights, William G., Calgary, Alberta, Canada. Perforating attachment for ruling machines. 1,473,632; Nov. 13.
Knott, Harry H., C. J. Jungbluth, and E. B. Hammer, Washington, Iowa, assignors to Washington Manufacturing Company. Button-blank shell-sawing machine. 1,474,044; Nov. 13.
Knowles, Harford C., assignor to The Willys-Morrow Company, Elmira, N. Y. Antifriction bearing. 1,474,081; Nov. 13.
Koeberlin, Simon, Fremont, Nebr. Folding step. 1,473,858; Nov. 13.
Koehler, Julius B., assignor to The Monitor Stove Company, Cincinnati, Ohio. Fire pot. 1,473,772; Nov. 13.
Koelker, Oscar H., assignor to The Willys-Overland Company, Toledo, Ohio. Radiator. 1,474,082; Nov. 13.
Kohler, Gottfrid, Bridgeport, Conn., and C. B. Smith, Seattle, Wash., assignors to Cinch Expansion Bolt & Engineering Company, New York, N. Y. Anchorage unit. 1,474,154; Nov. 13.
Kohnle, Frederick, assignor to The Monarch Marking System Company, Dayton, Ohio. Price tag. 1,473,773; Nov. 13.
Koppelman, Morris. (See Mann, L., and Koppelman.)
Krathwohl, Charles W., Chicago, Ill. Stepladder. 1,474,266; Nov. 13.
Kratz, August W., jr., Chicago, Ill., assignor to Lovell Manufacturing Company, Erie, Pa. Safety device for power-driven wringers. 1,474,045; Nov. 13.
Krause, Walter, Friesack, Germany. Pipe joint. 1,474,155; Nov. 13.
Krentzer, Adolf C. (See Jones, J. C., and Kreutzer.)
Krofft, Albert. (See Boyer, B. A., and Krofft.)
Krogh, Schack A. S., and P. H. Pedersen, Copenhagen, Denmark. Recording analyzing apparatus for automatic analysis of gases. 1,474,097; Nov. 13.
Kryztofiak, Josef, assignor to L'Aureole Co., Inc., New York, N. Y. Hair-curling device. 1,474,334; Nov. 13.

Kuhn, Harry H., Marshall, Ill. Tool. 1,474,267; Nov. 13.
Kuhns, Howard F., Allentown, Pa. Safety attachment for washing machines. 1,473,993; Nov. 13.
Kwapil, Hallet E., Racine, Wis. Tatting shuttle. 1,473,790; Nov. 13.
La Croix, J. H. (See Helmkee, Jacob, assignor.)
Lafleche, Pierre M. J., assignor to Société Lafleche Frères, Paris, France. Braces. 1,474,268; Nov. 13.
Lalle, Peter A., and C. F. Fowler, assignors of one-third to S. L. Petrino, Buffalo, N. Y. Amusement apparatus. 1,474,335; Nov. 13.
Lambert, Frank, Brooklyn, N. Y. Yieldable joint for water meters and the like. 1,473,910; Nov. 13.
Lambert, Gustave J., Salina, Kans. Stovepipe anchor. 1,473,728; Nov. 13.
Lampert, Henry H., Chicago, Ill. Wall tie. 1,474,046; Nov. 13.
Lancaster, M., et al. (See Cardwell, Charles E., assignor.)
Landsiedel, Harry, Norwood, Ohio, assignor to The Dalton Adding Machine Company, Cincinnati, Ohio. Adding machine. Re15,723; Nov. 13.
Langworthy, Lyman B., assignor to Chicago Title & Trust Co., Chicago, Ill. Sheet-piling wall and installing same. 1,474,195; Nov. 13.
Laroche, Henri J., Paris, France, and L. Montigny, Ghent, Belgium. Device for operating the spindles of spinning and twisting machines. 1,473,820; Nov. 13.
Larrey, Teodoro, and L. Godard, Mexico, Mexico. Boiler construction. 1,474,116; Nov. 13.
L'Aureole Co. (See Kryztofiak, Josef, assignor.)
Lautenschlager, William F., Cincinnati, Ohio. Sewing-machine. 1,474,269; Nov. 13.
Lauter, Ignatz, and F. G. Hoppe, New York, N. Y. Stylus-bar mounting. 1,473,707; Nov. 13.
Lawton, Hugh M., Bellevue, Ky., assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio. Card rack. 1,473,821; Nov. 13.
Lea, James E., Manchester, England. Apparatus for measuring granular or powdered material. 1,473,633; Nov. 13.
Leahy, Josephine M., Houston, Tex. Filing system. 1,474,196; Nov. 13.
Le Blond, R. K., Machine Tool Company, The. (See Groene, William F., assignor.)
Lebros Manufacturing Co., Inc., The. (See Levin, Jacob, assignor.)
Leech, Edward W., jr., Baltimore, Md. Safety lock for stopcocks. 1,473,774; Nov. 13.
Leech, Edward W., jr., Baltimore, Md. Safety lock for stopcocks. 1,473,775; Nov. 13.
Leeds & Northrup Company. (See Keeler, Earl A., assignor.)
Lees, James E. (See Cottam, R., Sefton, and Lees.)
Leffingwell, Albert L., assignor of one-half to Eli Herring, Los Angeles, Calif. Threading machine for bolts, pipes, etc. 1,474,327; Nov. 13.
Lennard, Thomas, Toronto, Ontario, Canada. Reaming tool. 1,474,197; Nov. 13.
Leo Gillig, et al. (See Farum, Elecie P., assignor.)
Leonard, Carl H., Pender, Nebr. Dispensing device. 1,474,083; Nov. 13.
Levin, Jacob, Springfield, Mass., assignor to The Lebros Manufacturing Co., Inc., New York, N. Y. Display apparatus for preparing and dispensing fresh-fruit beverages. 1,473,776; Nov. 13.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine-anchoring device. 1,473,729; Nov. 13.
Lewis, Arthur P., assignor to The Miller Rubber Company, Akron, Ohio. Quick-detachable pipe joint. 1,474,270; Nov. 13.
Lewis, Fred K., Ashtabula, Ohio. Top for vehicles and the like. 1,474,047; Nov. 13.
Lewis, George H., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Device for expanding endless bands. 1,473,822; Nov. 13.
Lewis, Herman A., Carson City, assignor of one-half to M. J. Miner, Butternut, Mich. Automatic throttle governor. 1,473,823; Nov. 13.
Liberty Steel Products Company. (See Fowler, William E., jr., assignor.)
Liebel, John G. H., and E. S. Flarsheim, Cincinnati, Ohio. Time switch. 1,473,679; Nov. 13.
Liebowitz, Benjamin, New Rochelle, N. Y. Vibration-recording apparatus. 1,473,911; Nov. 13.
Link, Frank H., South Braintree, Mass. Truck attachment for shoe racks. 1,473,912; Nov. 13.
Lisse, Leopold, Berlin, Germany. Producing blasting cartridges capable of absorbing liquefied gases. 1,473,994; Nov. 13.
Lloyd, Edwin C. J., Jeannette, Pa. Box and attachment therefor. 1,474,271; Nov. 13.
Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to L. H. Greenwood, G. A. Keyworth, Gardner, and W. E. Holman, Leominster, Mass., trustees. Reed article and producing the same. 1,473,708; Nov. 13.
Locke Insulator Corporation. (See Goddard, Walter T., assignor.)
Loe, Syver, Minneapolis, Minn. Four-wheeled truck. 1,474,198; Nov. 13.
Long, Charles B., assignor to Champion Blower & Forge Company, Lancaster, Pa. Drilling machine. 1,473,995; Nov. 13.
Long, Eugene M., New York, N. Y., assignor of one-half to H. M. Knight, Montclair, N. J. Sectional floating dry dock. 1,474,336; Nov. 13.
Los Angeles Railway Corporation. (See Smith, Robert R., assignor.)
Loudon, Warren P., Niagara Falls, N. Y., assignor to Vapor Car Heating Co., Inc., Chicago, Ill. Valve-operating mechanism. 1,473,634; Nov. 13.
Lovell Manufacturing Company. (See Kratz, August W., jr., assignor.)
Loxterman, Howard B., Pittsburgh, Pa., assignor to Blaw-Knox Company. Road rail or form. 1,473,730; Nov. 13.
Lucas, Walter A., Hawthorne, N. J., assignor, by mesne assignments, to The T. H. Symington Company, New York, N. Y. Truck side frame. 1,474,272; Nov. 13.
Lupton's, David, Sons Company. (See Brogden, Joah, assignor.)
Luzerne Rubber Company, The. (See Phillips, Julius, assignor.)
Lynch, Charles W., assignor to American Writing Paper Company, Holyoke, Mass. Method of and apparatus for cutting deckle-edged envelope blanks. 1,474,048; Nov. 13.
Lyon, George A., Philadelphia, Pa. Buffer construction. 1,474,273; Nov. 13.
McBerty, Fred P., Warren, Ohio. Universal point and carrier for welders. 1,474,199; Nov. 13.
McClaskey, Frank T., Sacramento, Calif. Dental appliance. 1,474,084; Nov. 13.
McClellon, Harold B., administrator. (See McClellon, James M.)
McClellon, James M., deceased, Everett, Mass.; H. B. McClellon, administrator. Boiler. 1,474,156; Nov. 13.
McCormick Drilling Tool Company. (See McCormick, Thomas J., assignor.)
McCormick, Thomas J., assignor, by mesne assignments, to McCormick Drilling Tool Company, Detroit, Mich. Underreamer. 1,474,274; Nov. 13.
McCurdy, Arthur W., Malahat, British Columbia, Canada. Auger or bit. 1,474,049; Nov. 13.
McCurdy, Arthur W., Malahat, British Columbia, Canada. Means for facilitating sharpening of augers or bits. 1,474,051; Nov. 13.
McCurdy, Arthur W., Victoria, British Columbia, Canada. Producing augers. 1,474,050; Nov. 13.
McCutcheon, Claude H., Kittanning, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for forming clay pots. 1,473,791; Nov. 13.
McFadden, Glenn E., Lakewood, Ohio, assignor to Alfred Vester Sons, Inc., Providence, R. I. Pendulet. Des. 63,262; Nov. 13.
McGarry, Joseph A., assignor of one-half to J. P. O'Rourke, Toledo, Ohio. Bread-dumping machine. 1,473,996; Nov. 13.
McIntyre, William A., Hoff, Oreg. Sugar-dispensing receptacle. 1,474,275; Nov. 13.
McKellar, Judson L., assignor to Gasau-Thompson Company, Inc., Brooklyn, N. Y. Folding cot. 1,474,200; Nov. 13.
McKenzie, Peter H., Chicago, Ill. Furnace construction. 1,473,731; Nov. 13.
McLoon, Nelson E., Glencoe, Mo. Collapsible barrel. 1,474,052; Nov. 13.
McLoughlin Textile Corporation. (See Eberley, Frank L., assignor.)
McMahon, William F., Long Beach, Calif. Oil-well slush-pump piston and pump-piston packing-adjusting mechanism. 1,474,201; Nov. 13.
McNair, George H. S. and H. N. D., and C. T. Siebs, New York, N. Y. Projecting images and apparatus therefor. 1,473,913; Nov. 13.
McNair, Hugh N. D. (See McNair, George H. S. and H. N. D., and Siebs.)
McPhee, Dougald, Rivers Inlet, British Columbia, Canada. Fish-trimming machine. 1,473,961; Nov. 13.
McPherson, McCormack C., Hammond, Ind. Thermostatic circuit closer. 1,473,962; Nov. 13.
McWhirter, John S., New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. 1,473,824; Nov. 13.
Macdonald, Angus S., Great Neck, N. Y., assignor to Decorative Arts League, Jersey City, N. J. Letter box. Des. 63,261; Nov. 13.
Macdonald, David B., Leicester, England. Machine for making stiffeners, stiffening material, insoles, and like parts for boots and shoes. 1,474,202; Nov. 13.
Macdonald, James N. and R. R., Island Mountain, Calif. Automobile. 1,474,203; Nov. 13.
Macdonald, Robin R. (See Macdonald, James N. and R. R.)
MacGregor, Peter G., New York, N. Y., assignor to Pyrene Manufacturing Company. Fire extinguisher. 1,474,204; Nov. 13.
Maladry, Henri J., Paris, France. Gas-heated water-heating apparatus. 1,473,859; Nov. 13.
Maney, Thomas, Louisville, Ky. Guard-rail fixture for railway tracks. 1,474,276; Nov. 13.
Mann, Leon, Mount Vernon, and M. Koppelman, Brooklyn, N. Y., assignors to Holed Tite Egg Packing Corporation. Carton for fragile articles. 1,473,635; Nov. 13.
Mannesmannröhren-Werke. (See Steinecke, Fritz, assignor.)

Manville, E. J., Machine Company, The. (See Smith, Henry L., assignor.)
Marble, Charles C., Bradentown, Fla. Tire attachment. 1,473,680; Nov. 13.
Marmon, Albert W., Dallas, assignor of one-half to D. Haggard, Dallas County, and one-half to J. J. Hutchens, Dallas, Tex. Amusement device. 1,473,914; Nov. 13.
Marsh, Clayton C. (See Trosky, C. L., and Marsh.)
Marshall, John, Swarthmore, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive for use in blasting caps. 1,473,825; Nov. 13.
Martin, Edward H., Los Angeles, Calif. Telephone meter. 1,474,053; Nov. 13.
Martin, Laurence C., Providence, R. I. Rheostat. 1,473,915; Nov. 13.
Martel, Louis V., and P. Methot, assignors of one-third to O. F. Moreau, Manchester, N. H. Washing machine. 1,474,277; Nov. 13.
Marx, Robert J. (See Heess, Jacob, assignor.)
Mase, Roscoe P., Wilkinsburg, assignor to Mine Safety Appliance Company, Pittsburgh, Pa. Gas mask. 1,474,205; Nov. 13.
Masury, Alfred E., and R. S. Bolger, assignors to International Motor Company, New York, N. Y. Variable-speed winch for motor trucks. 1,474,504; Nov. 13.
Matheus, John, and H. Scheddin, Milwaukee, Wis. Egg turner. 1,473,792; Nov. 13.
Mayer, Friedrich, Munich, Germany. Rolling-mill apparatus. 1,474,035; Nov. 13.
Mayville, Louis H., Granite Heights, Wis. Rail brace. 1,474,278; Nov. 13.
Mazsick, Frank W., North Milwaukee, Wis. Cabinet. 1,473,793; Nov. 13.
Mellus, Grover B., Los Angeles, Calif. Hose. 1,474,328; Nov. 13.
Meredith, John R., Atlanta, Ga. Inner tube. 1,474,085; Nov. 13.
Merick, Wendell S., Chicago, Ill. Ironing machine. 1,473,997; Nov. 13.
Methot, Philip. (See Martel, L. V., and Methot.)
Metzger, Floyd J., New York, N. Y., assignor, by mesne assignments, to California Cyanide Company, Incorporated. Fixing nitrogen. 1,473,826; Nov. 13.
Meyer, Joseph P., Rochester, N. Y. Flushing valve. 1,474,117; Nov. 13.
Michigan Valve Foundry and Engineering Company. (See Flower, John W., assignor.)
Middagh, Robert E., and C. L. Anderson, McGill, Nev. Refillable electric fuse. 1,474,206; Nov. 13.
Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric and Manufacturing Company. Fluid-cooled bearing. 1,473,827; Nov. 13.
Miller, George E. (See Cantrell, E. B., and Miller.)
Miller Rubber Company, The. (See Lewis, Arthur P., assignor.)
Mills, Frank P., Berkeley, Calif. Adjustment attachment for hydraulic testing apparatus. 1,473,963; Nov. 13.
Millward, John R., Newark, N. J. Metallurgical furnace. 1,474,157; Nov. 13.
Minami Manshu Tetsudo Kabushiki Kaisha. (See Namari, Ichitaro, assignor.)
Mine Safety Appliance Company. (See Mase, Roscoe P., assignor.)
Miner, M. Jay. (See Lewis, Herman A., assignor.)
Minner, Julian E., Mandan, N. Dak. Transmission mechanism. 1,474,279; Nov. 13.
Mitchell, Harry R., assignor to Mitchell Products Company, Seattle, Wash. Vending machine. 1,473,828; Nov. 13.
Mitchell Products Company. (See Mitchell, Harry R., assignor.)
Mitchell, Robert B. (See Gessler, F. A., and Mitchell.)
Mixsell, Ward T., Cumberland, Md. Flexible valve diaphragm. 1,473,998; Nov. 13.
Mock, Frank C., assignor to Stromberg Motor Devices Company, Chicago, Ill. Fuel-fogging device for internal-combustion engines. 1,473,999; Nov. 13.
Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Garment pocket. 1,473,636; Nov. 13.
Mohrmann, Paul, assignor to Friedley Voshardt Co., Chicago, Ill. Lighting fixture. Des. 63,263; Nov. 13.
Molnar, Emery, Flemington, N. J. Washing machine. 1,474,280; Nov. 18.
Momb, Ole, West Duluth, Minn. Car door. 1,473,829; Nov. 13.
Monarch Marking System Company, The. (See Kohnle, Frederick, assignor.)
Monier, Quintus, Tucson, Ariz. Building tile. Des. 63,264; Nov. 13.
Monitor Stove Company, The. (See Koehler, Julius B., assignor.)
Monroe Calculating Machine Company. (See Britten, Edwin F., jr., assignor.)
Monroe Calculating Machine Company. (See Chase, George C., assignor.)
Montigny, Louis. (See Laroche, H. J., and Montigny.)
Montville, Emma, administratrix. (See Swartz, Fred L., assignor.)
Montville, George. (See Swartz, Fred L., assignor.)
Moon, Edward W., Youngstown, N. Y. Combined fixture support and loom fastener. 1,473,794; Nov. 13.
Moore, Charles, assignor to C. A. Taylor Trunk Works, Chicago, Ill. Reenforcing means. 1,473,830; Nov. 13.
Moore, Charles F., Cambridge, Mass. Adjustable concrete form. 1,473,964; Nov. 13.
Moore, Charles F., Philadelphia, Pa. Adjustable concrete form. 1,473,965; Nov. 13.
Moore, Edward, Colonie, and S. F. Welsh, Elsmere, N. Y. Hopple. 1,473,637; Nov. 13.
Moore, George L., Chicago, Ill. Recoil check. 1,473,638; Nov. 13.
Moore, Raymond G., assignor to The Bassick Company, Bridgeport, Conn. Doorlatch. 1,474,158; Nov. 13.
Moreau, Oscar F. (See Martel, L. V. and Methot, assignors.)
Morgan Construction Company. (See Crosby, Fred B., assignor.)
Morgan, Edmund C., deceased, Chicago, Ill., O. E. Morgan, executrix. Mining machine. 1,474,000; Nov. 13.
Morgan, Olive E., executrix. (See Morgan, Edmund C.)
Moritz, John G., Glassport, Pa. Glass mold. 1,474,329; Nov. 13.
Morrison, Charles N., assignor to The Dow Chemical Company, Midland, Mich. Furnace. 1,473,831; Nov. 13.
Morrow, Howard W., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Pin puller. 1,474,159; Nov. 13.
Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Beam head. 1,473,681; Nov. 13.
Mossberg Pressed Steel Corporation. (See Mossberg, Frank, assignor.)
Mullarkey, Michael, Toronto, Ontario, Canada. Registering bevel. 1,473,860; Nov. 13.
Murphy, Walter P. (See Schlesinger, Edgar E., assignor.)
Myers, F. E., and Brother Company, The. (See Myers, Philip A., assignor.)
Myers, Hubert A., Company, The. (See Straw, Arteemes D., assignor.)
Myers, Philip A., assignor to The F. E. Myers and Brother Company, Ashland, Ohio. Power head. 1,473,861; Nov. 13.
Mystrom, Herman, and R. E. Nelson, Philadelphia, Pa. Convertible body for automobiles. 1,474,283; Nov. 18.
Nalle, Ernest et al, trustees. (See Paul, Christian F., jr., assignor.)
Namari, Ichitaro, Sakai, Osaka Fu, Japan, assignor to Minami Manshu Tetsudo Kabushiki Kaisha, Tairen, Kwanto Shu, China. Manufacturing a composition containing anhydrous magnesium chloride. 1,473,966; Nov. 13.
National Acme Company. (See Smith, O. A., and Rindfleisch, assignors.)
National Tube Company. (See Brown, Frederick E., assignor.)
Needler, Marley, Muskegon Heights, Mich. Clothes drier. 1,474,281; Nov. 13.
Neighbour, Leonard B., assignor to Deere & Company, Moline, Ill. Elevator conveyer. 1,473,795; Nov. 13.
Nelson, Rudolph E. (See Mystrom, H. and Nelson.)
Nevill, Frank L., Houston, Tex. Elevating liquids from great depths. 1,473,967; Nov. 13.
Nevill, Frank L., Houston, Tex. Adjuster for well-pumping apparatus. 1,473,968; Nov. 13.
Newhard, John H., Allentown, Pa. Container. 1,473,732; Nov. 13.
Newman, A. L., & Company. (See Newman, Almyr L., assignor.)
Newman, Almyr L., Warwick, R. I., assignor to A. L. Newman & Company, Cranston, R. I. Bracelet or like article of jewelry. 1,473,796; Nov. 13.
Newton, Earl W., Chicago, Ill. Cup or similar article. Des. 63,265; Nov. 13.
New York Coil Company. (See Rhoades, Lewis T., assignor.)
New York Mackintosh Clothing Company. (See Place, Charles A., assignor.)
Nicholls, Arthur P. (See Bradshaw, E. A., Black, and Nicholls.)
Nichols, Clifford R., Dallas, Tex. Concrete-pipe-making machine. 1,473,969; Nov. 13.
Noble, Charles, Sisson, Calif. Motor logging tractor. 1,474,282; Nov. 13.
Noe, William R., & Sons. (See Roettges, Frederick, assignor.)
Nolde & Horst Co., The. (See Gosch, William H., assignor.)
Normandi, Norman L., San Francisco, assignor to V. R. Will, Lodi, Calif. Perfume-burning lamp. Des. 63,266; Nov. 13.
Norris, Charles B., Grand Rapids, Mich., assignor to Haskelite Manufacturing Corporation. Scarfing machine. 1,473,733; Nov. 13.
Nugent, Francis E., Philadelphia, Pa. Tire valve. 1,474,160; Nov. 13.
Nutt, William C., Castana, Iowa. Farrowing pen. 1,473,970; Nov. 13.
Nuttall, R. D., Company. (See Burnham, Leland F., assignor.)
Nyman, Alexander, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Three-phase reactance coil. 1,473,862; Nov. 13.
O'Beirne, Clarence B. (See Taylor, James E., assignor.)
Olney, George J., Westernville, N. Y. Vegetable cleaner and separator. 1,474,284; Nov. 13.

Ore Roasting Development Company. (See Fogh, Carl S., assignor.)
O'Rourke, John P. (See McGarry, Joseph A., assignor.)
Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Repeater apparatus for carrier systems. 1,473,682; Nov. 13.
Ostermann, Rudolf M., Evanston, Ill., assignor to The Superheater Company, New York, N. Y. Separator. 1,474,056; Nov. 13.
Otis Automatic Train Control Incorporated. (See Bissell, David J., jr., assignor.)
Otis, Spencer, Barrington, Ill. Loading stage for depots and the like. 1,473,709; Nov. 13.
Packard Motor Car Company. (See Goddard, George E., assignor.)
Packer, Eben R., New Rochelle, N. Y. Protective heating system for railway switches and the like. 1,474,161; Nov. 13.
Page, James B., Birmingham, Ala. Road or pavement. 1,473,639; Nov. 13.
Park, John D., jr., Cincinnati, Ohio. Boat propeller. 1,473,832; Nov. 13.
Patterson, Edward J., et al. (See Fuehrer, Jacob J., assignor.)
Patterson, John W., trustee. (See Sides, W. W., and Preston, assignors.)
Patz, Isadore B., Baltimore, Md. Necktie. Des. 63,267; Nov. 13.
Paul, Christian F., jr., assignor to E. Nalle, W. P. Allen, and E. Rosengren, trustees, Austin, Tex. Centrifugal emulsifier. 1,473,734; Nov. 13.
Payment, Edward S., Chicago, Ill. Thermometer. 1,474,001; Nov. 13.
Payne, Arthur C. and R. Eyre, London, England. Apparatus for securing metallic bands around packing cases, boxes, bales, and the like. 1,474,207; Nov. 13.
Pedersen, Peter H. (See Krogh, S. A. S., and Pedersen.)
Pelton, Charles H., and G. C. Rhoderick, assignors to The Thomas Manufacturing Company, Springfield, Ohio. Mowing machine. 1,473,863; Nov. 13.
Pennington, John R.. (See Pennington, William D., and J. R.)
Pennington, William D. and J. R., Chicago, Ill. Coin bank. 1,473,864; Nov. 13.
Perkins, John, Liberty, Ind. Air control for drain tiles. 1,474,285; Nov. 13.
Peters, David F., St. Peter, Minn. Automobile signal. 1,473,683; Nov. 13.
Petersén, Wilhelm H., Ludvika, Sweden. Retarding device for time switches. 1,473,971; Nov. 13.
Peterson, Alcot D., Alta, Iowa. Paper-bag holder. 1,473,640; Nov. 13.
Petrino, Sebastian L. (See Lalle, P. A., and Fowler, assignors.)
Phelps, Sebring I., Rockford, Ill. Electric heater. 1,473,865; Nov. 13.
Phelps, Sebring I., Rockford, Ill. Electric heater. 1,473,867; Nov. 13.
Phelps, Sebring I., Rockford, Ill. Electrical heating unit. 1,473,866; Nov. 13.
Phillips, Harry L., assignor to Scovill Manufacturing Company, Waterbury, Conn. Curtain fastener. 1,474,208; Nov. 13.
Phillips, Julius, assignor to The Luzerne Rubber Company, Trenton, N. J. Hard-rubber flush ball for water-closet tanks. 1,474,286; Nov. 13.
Phillips, William S., Cameron, W. Va. Table and chair structure. 1,473,736; Nov. 13.
Pinten, John, Detroit, Mich. Box latch. 1,473,869; Nov. 13.
Pinten, John, Detroit, Mich. Display cabinet. 1,473,868; Nov. 13.
Pittsburgh Lamp, Brass & Glass Company. (See Yokel, Frank, assignor.)
Pittsburgh Plate Glass Company. (See McCutcheon, Claude H., assignor.)
Place, Charles A., assignor to New York Mackintosh Clothing Company, New York, N. Y. Rainproof garment. 1,473,916; Nov. 13.
Poehing, Oskar, Munich, Germany. Regulating water-power stations. 1,474,086; Nov. 13.
Pohl, Otto, Planegg, near Munich, Germany. Dry distilling and carbonizing crude peat. 1,473,641; Nov. 13.
Pontbriand, Louis F., Highgate Center, Vt. Pump. 1,473,737; Nov. 13.
Potter, Frederic W., Los Angeles, Calif., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Pattern-grading machine. 1,473,738; Nov. 13.
Prahar, Robert L., Brooklyn, N. Y. Bag frame. 1,473,972; Nov. 13.
Prahar, Robert L., Brooklyn, N. Y. Bag frame. 1,473,973; Nov. 13.
Prat, Emile, assignor to Societe des Cheminees Louis Prat à Tirage Induit, Paris, France. Induced and forced draft apparatus. 1,473,870; Nov. 13.
Pratt, Arthur D., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Water-tube boiler. 1,474,162; Nov. 13.
Preston, Elmont F. (See Sides, W. W., and Preston.)
Prew, Charles, Fall River, Mass. Flier. 1,474,287; Nov. 13.
Pridemore, William F., Stillwater, Minn. Adjustable spindle bolt. 1,474,057; Nov. 13.
Priebe, Herman C., Blue Island, Ill. Car truck. 1,474,002; Nov. 13.
Prime, George H., Norwich, N. Y. Minnow trap. 1,474,087; Nov. 13.
Promislo, Charles, Philadelphia, Pa. Clip for carton lids. 1,473,871; Nov. 13.
Purdy, George A., Seattle, Wash. Traction device for motor-vehicle wheels. 1,473,872; Nov. 13.
Pyle, Jess D., Norwich, Kans. Tank. 1,473,974; Nov. 13.
Pyrene Manufacturing Company. (See MacGregor, Peter G., assignor.)
Quarnstrom, Ernest O. (See Brand, W. F., and Quarnstrom.)
Quenzer, Adam P., Brooklyn, N. Y. Cap spreader. 1,474,330; Nov. 13.
Racine Horseshoe Tire Company. (See Hollenbeck, Oscar D., assignor.)
Randall, Herman P. (See Servis, L. B., Randall, and Shannon.)
Raney, Rebekah E., San Francisco, Calif. Smoker's article. 1,473,937; Nov. 13.
Rath, Henry A., Elizabeth, N. J. Water-closet valve. 1,474,288; Nov. 13.
Rawlings, Ernest J., Balham, London, England. Spring-actuated winding mechanism, particularly for windows. 1,473,739; Nov. 13.
Ray, James G. (See Cartwright, Albert D., assignor.)
Rebours, Jules E., Grand Rapids, Mich. Vehicle. 1,474,163; Nov. 13.
Reichel, Hugo, Chicago, Ill. Belt cutter. 1,473,642; Nov. 13.
Reid, William, Wenatchee, Wash. Table. 1,473,975; Nov. 13.
Reimann, Louis P., Buffalo, N. Y. Ladder bracket. 1,474,289; Nov. 13.
Rein, Gottfried H., Cincinnati, Ohio, assignor of one-fourth to J. Binder, Ludlow, Ky. Razor-blade stropper. 1,474,290; Nov. 13.
Reinhold, Philip A., Akron, Ohio. Plow. 1,474,291; Nov. 13.
Relkin, Morris, New York, N. Y. Spoon holder or similar article. Des. 63,268; Nov. 13.
Remington Typewriter Company. (See Barney, Edwin E., assignor.)
Renard, Hubert, Herstal lez Liege, Belgium. Walking-stick machine gun. 1,474,292; Nov. 13.
Renshaw, Alfred. (See Herford, R. O., and Renshaw.)
Research Corporation. (See Bradley, Linn, assignor.)
Reynolds, Frederick, Walkerville-on-Tyne, assignor of one-half to The Silica Syndicate Limited, Westminster, London, England. Thermionic valve. 1,474,293; Nov. 13.
Reynolds, Joy S., assignor of one-half to C. A. Balcom, San Francisco, Calif. Pressure regulator. 1,474,164; Nov. 13.
Reynolds, Richard S., Louisville, Ky. Collapsible metal box. 1,474,088; Nov. 13.
Reynolds, Robert V. R., Washington, D. C. Gauge. 1,474,209; Nov. 13.
Rhoades, Lewis T., Mont Clare, Pa., assignor to New York Coil Company, New York, N. Y. Automobile steering-wheel lock. 1,473,873; Nov. 13.
Rhoderick, George C. (See Pelton, C. H., and Rhoderick.)
Ribaysen, Jacob, Chicago, Ill. Top piece for lighting fixtures. Des. 63,269; Nov. 13.
Ricardo, Harry R., London, England, assignor to Waukesha Motor Company, Waukesha, Wis. Internal-combustion engine. 1,474,003; Nov. 13.
Rice, Orin A., Weyauwega, Wis. Grease carton. 1,474,118; Nov. 13.
Ries, Elias E., New York, N. Y., assignor to American Audioscope Co., Inc. Sound-recording method. 1,473,976; Nov. 13.
Rindfleisch, Benjamin. (See Smith, O. A., and Rindfleisch.)
Risk, Loren, Minneapolis, Minn. Fuse for the production of heat. 1,473,874; Nov. 13.
Rissler, Albin P., and W. G. Hamilton, assignors to Chicago Railway Equipment Company, Chicago, Ill. Reversible strut for brake beams and making same. 1,474,165; Nov. 13.
Rivet-O Manufacturing Company. (See Harris, Carl C., assignor.)
Robbins, Joseph W., Wilton, N. H. Box-cover press. 1,473,643; Nov. 13.
Roberts, Alva L., Hubbard, Ohio. Game board. 1,474,089; Nov. 13.
Roberts, Edmund W., Cincinnati, Ohio. Candy-cutting apparatus. 1,474,004; Nov. 13.
Roberts, Marshal G., Detroit, Mich. Window for automobile curtains. 1,474,166; Nov. 13.
Robertson, Andrew R., and A. F. Dunsmore, Glasgow, Scotland. Centrifugal machine. 1,474,331; Nov. 13.
Robertson, Annie R., executrix. (See Robertson, Colin.)
Robertson, Christopher S., Jacksonville, Fla. Anchor post for windshields. 1,473,875; Nov. 13.
Robertson, Colin, deceased, by A. R. Robertson, executrix, Antrim, N. H., assignor to W. H. Banks, Winthrop, Mass. Miter clamp. 1,474,119; Nov. 13.
Robinson, Alfred, Gardner, Mass. Fastener device. 1,473,876; Nov. 13.
Rockwell, David P. (See Whipple, R. L., Rockwell, and Featherstone.)
Rodman Chemical Company. (See Rodman, H., and Boren, assignors.)

Rodman, Hugh, Oakmont, and E. E. Boren, Swissvale, Pa., assignors to Rodman Chemical Company. Decolorizing material and making same. 1,474,120; Nov. 13.
Rodney Hunt Machine Company. (See Harris, Carl C., assignor.)
Rodrigo, Henry, sr., Houston, Tex. Well screen. 1,473,644; Nov. 13.
Roettges, Frederick, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y. Lamp or other shade. Des. 63,270; Nov. 13.
Rohwer, Carl F., Hot Springs, Ark. Facing for clutch jaws. 1,473,735; Nov. 13.
Roller Harrow Company. (See Schroeder, George G., assignor.)
Rome, Sam, Toronto, Ontario, Canada. Combination tool. 1,473,877; Nov. 13.
Rose, Basil, Louisa, Ky. Sucker-rod elevator and wrench. 1,473,684; Nov. 13.
Rose, George D., Manchester, England. Steering wheel and forming the same. 1,474,167; Nov. 13.
Rosengren, Ed, et al trustees. (See Paul, Christian F., jr., assignor.)
Roy, James E., Philadelphia, Pa. Glare-shield device. 1,473,878; Nov. 13.
Royer, William R., Wilkes-Barre, Pa. Valve protecting and operating device for pneumatic tires. 1,473,938; Nov. 13.
Royle, William H., Tipton, England. Hack saw. 1,474,210; Nov. 13.
Ruberoid Co., The. (See Abraham, Herbert, assignor.)
Rudolf, Ferdinand A., Jamaica, N. Y., and J. C. Ryder, Passaic, N. J. Manufacture of sulphuric acid. 1,473,879; Nov. 13.
Rupright, Howard J. (See Strosacker, C. J., and Rupright.)
Russell, Henry M., Wheeling, W. Va. Changing-picture illusion device. 1,473,939; Nov. 13.
Russell, John M., Manufacturing Company, The. (See Russell, Theodore, assignor.)
Russell, Theodore, assignor to The John M. Russell Manufacturing Company, Naugatuck, Conn. Shoe clasp. 1,474,168; Nov. 13.
Russell, Thomas C., Chicago, Ill. Electric heat device. 1,473,645; Nov. 13.
Ryder, James C. (See Rudolf, F. A., and Ryder.)
Sachnoff, George, Brooklyn, N. Y. Fastener for fur garments. 1,473,710; Nov. 13.
Salter, Albert L. (See Atherton, C. N., and Salter.)
Sands, Roy G., assignor to Cook Electric Company, Chicago, Ill. Renewable electric fuse. 1,473,647; Nov. 13.
Sands, Roy G., Waukegan, assignor to Cook Electric Company, Chicago, Ill. Renewable electric fuse. 1,473,646; Nov. 13.
Sankey, Edward, Barrow-in-Furness, England. Photographic-printing machine. 1,473,740; Nov. 13.
Sargent, George H., Chicago, Ill. Water gauge. 1,473,741; Nov. 13.
Sartakoff, Jack D., Forrest Hills, and W. V. Forrest, Brooklyn, N. Y. Automatic water filler for storage batteries. 1,474,169; Nov. 13.
Sasgen, Michael J., assignor to Grand Specialties Company, Chicago, Ill. Doorstop. 1,473,833; Nov. 13.
Sasgen, Michael J., assignor to Grand Specialties Company, Chicago, Ill. Doorstop. 1,473,834; Nov. 13.
Sauvage, William H., assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack adjuster. 1,474,090; Nov. 13.
Sauvage, William H., Flushing, assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack adjuster. 1,474,091; Nov. 13.
Sauvage, William H., assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack adjuster. 1,474,092; Nov. 13.
Sauvage, William H., assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack adjuster. 1,474,093; Nov. 13.
Schaefer, Joseph, assignor to The Van Dorn Iron Works Company, Cleveland, Ohio. Waste basket. 1,473,742; Nov. 13.
Schatzel, Albert F. (See Camp, E., and Schatzel.)
Schaumberg, Otto, Pittsburgh, Pa. Hair-waving apparatus. 1,473,977; Nov. 13.
Schechter, Abram S., New York, N. Y. Combined carrier case and stand. 1,474,170; Nov. 13.
Scheddin, Herbert. (See Matheus, J., and Scheddin.)
Scherer, Albert G., assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Air circulator. 1,473,648; Nov. 13.
Schlesinger, Alfred, Dusseldorf, Germany. Platen printing press. 1,473,640; Nov. 13.
Schlesinger, Edgar E., assignor to W. P. Murphy, Chicago, Ill. End reenforcement for railway box cars. 1,473,743; Nov. 13.
Schletter, Richard, Philadelphia, Pa. Stocking. Des. 63,272; Nov. 13.
Schmale, Ernest, Belleville, Ill., assignor to Belleville Stove and Range Company, Belleville, Ill. Door and frame construction. 1,473,978; Nov. 13.
Schoff, Henry W., River Forest, Ill. Auto lock. 1,474,211; Nov. 13.
Schön, Ludwig, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Switch drum for starting and controlling electromotors. 1,474,094; Nov. 13.
Schroeder, George G., assignor to Roller Harrow Company, Washington, D. C. Roller harrow. 1,474,204; Nov. 13.
Schuchardt, Rudolph F., Chicago, Ill., assignor to General Electric Company. Meter. Re15,724; Nov. 13.
Schumann, Robert, Dusseldorf, Germany. Lens-edging machine. 1,474,171; Nov. 13.
Schwager, Albert, Kreuzlingen, Switzerland. Hand vise. 1,473,880; Nov. 13.
Scott, Charles F., New Haven, Conn., assignor to Westinghouse Electric & Manufacturing Company. Non-inductive interference system. 1,473,881; Nov. 13.
Scott, Walter M., Cleveland, Ohio. Crystal mounting. 1,474,173; Nov. 13.
Scott, Walter M., Cleveland, Ohio. Electric measuring instrument. 1,474,172; Nov. 13.
Scovill Manufacturing Company. (See Phillips, Harry I., assignor.)
Sears, Roebuck and Co. (See Hoffman, Rudolph, assignor.)
Sefton, Thomas. (See Cottam, R., Sefton, and Lees.)
Segall, Aaron, New York, N. Y. X-ray-film holder. 1,474,174; Nov. 13.
Segur, Asa B., assignor to Tite-Pack Filler Co., Chicago, Ill. Egg-case filler. 1,473,917; Nov. 13.
Servis, Leland B., H. P. Randall, and S Q Shannon, Los Angeles, Calif.; said Randall and said Shannon assignors to said Servis. Tire chain. 1,473,797; Nov. 13.
Seymour, Benjamin F., Indianapolis, Ind. Resilient transmission and bearing. 1,474,122; Nov. 13.
Seymour, Benjamin F., Washington, D. C. Power-transmission device. 1,474,095; Nov. 13.
Seymour, Benjamin F., Washington, D. C. Resilient transmission and bearing. 1,474,121; Nov. 13.
Shank, Lewis H. (See Buckwalter, Jacob S., assignor.)
Shannon, S Q. (See Servis, L. B., Randall, and Shannon.)
Shannon, S. Q. (See Strifler, Chester E., assignor.)
Sheldon, Edward P., Brooklyn, assignor to R. Hoe and Co., New York, N. Y. Late-news-printing device. 1,473,650; Nov. 13.
Sherbondy, Earl H., assignor to S. D. Waldon, Detroit, Mich. Poppet valve. 1,473,711; Nov. 13.
Sherman, Phillip, Toledo, Ohio. Windshield wiper. 1,474,005; Nov. 13.
Sherman, Phillip, Toledo, Ohio. Windshield wiper. 1,474,006; Nov. 13.
Shiffer, Daniel B., Annville, Pa. Toilet accessory. 1,474,295; Nov. 13.
Shown, Finley C., assignor of one-half to O. H. Bowden, Clarendon, Ark. Meat holder. 1,474,296; Nov. 13.
Sides, Wilson W., Lowell, and E. F. Preston, assignors to J. W. Patterson, trustee, Kearney, Nebr. Hydraulic clutch. 1,474,007; Nov. 13.
Siebs, Claude T. (See McNair, George H. S. and H. N. D., and Siebs.)
Siesel-Spill Manufacturing Co., The. (See Spill, Frank, assignor.)
Silica Syndicate Limited, The. (See Reynolds, Frederick, assignor.)
Simmons, Leo, Washington, D. C. Apparatus for applying liquids. 1,473,979; Nov. 13.
Simpson, William T., Wagoner, Okla. Loading apparatus for gasoline tank cars. 1,474,297; Nov. 13.
Sinding-Larsen, Alf., Vestre Aker, near Christiania, assignor to A/S Telocle, Christiania, Norway. Picture transmission. 1,473,882; Nov. 13.
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
Singer Manufacturing Company, The. (See Gatchell, George S., assignor.)
Slepian, Joseph, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrolytic condenser. 1,473,883; Nov. 13.
Slesazeck, Paul, Berlin-Reinickendorf, Germany. Expanding device for boiler tubes and the like. 1,473,884; Nov. 13.
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Locomotive. 1,474,175; Nov. 13.
Small, Chesley T., assignor to First National Bank in St. Louis, St. Louis, Mo. Can-sealing machine. 1,474,176; Nov. 13.
Smith, A. O., Corporation. (See Smith, Reuben S., assignor.)
Smith, Charles B. (See Kohler, G., and Smith.)
Smith, David, Douglas, Wyo. Airship. 1,473,744; Nov. 13.
Smith, Fred P., et al., trustees. (See Allen, James M., assignor.)
Smith, Henry L., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Wood-screw machine. 1,474,177; Nov. 13.
Smith, James J. (See Baker, Charles C., assignor.)
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,474,178; Nov. 13.
Smith, L. C., & Bros. Typewriter Co. (See Gabrielson, Carl, assignor.)
Smith, Oscar A., East Cleveland, and B. Rindfleisch, assignors to National Acme Company, Cleveland, Ohio. Automatic threading die. 1,474,179; Nov. 13.

Smith, Reuben S., assignor to A. O. Smith Corporation, Milwaukee, Wis. Automobile frame and pressed-steel constructional elements therefor. 1,473,651; Nov. 13.
Smith, Robert R., assignor to Los Angeles Railway Corporation, Los Angeles, Calif. Coupon transfer. 1,473,940; Nov. 13.
Société des Cheminées Louis Prat à Tirage induit. (See Prat, Emile, assignor.)
Société Lafléche Frères. (See Lafléche, Pierre M. J., assignor.)
Sones, Peter J. (See Bryan, E. C., and Sones.)
Sorensen, Carl, Greenwich, Conn. Rat trap. 1,474,096; Nov. 13.
Soule, Emmet S., South Bend, Wash. Hook. 1,473,885; Nov. 13.
Specht, Adolph, assignor to Gem City Stove Manufacturing Company, Quincy, Ill. Damper. 1,474,123; Nov. 13.
Speidel, Charles F., assignor to Eastman Kodak Company, Rochester, N. Y. Stylus attachment for cameras. 1,473,798; Nov. 13.
Spence, George F., et al. (See Burgess, William E., assignor.)
Spielman, Milton H., and A. R. Goldrick, assignors to The Domestic Electric Company, Cleveland, Ohio. Electric-motor switch. 1,474,180; Nov. 13.
Spill, Frank, East Rutherford, N. J., assignor to The Siesel-Spill Manufacturing Co., Inc., New York, N. Y. Spanish comb. Des. 63,271; Nov. 13.
Starrett, Arthur H. (See Adell, J. A., and Starrett.)
Starrett, L. S., Company, The. (See Adell, J. A., and Starrett, assignors.)
Starrett, L. S., Company, The. (See Amsden, A. W., and Starrett, assignors.)
Starrett, William D. (See Amsden, A. W., and Starrett.)
State Street Trust Company, trustee. (See Doble, Ralph N., assignor.)
Statham, Richard J., Glendive, Mont. Radiator-supporting stand. 1,474,212; Nov. 13.
Stedman, George M., assignor to Stedman's Foundry & Machine Works, Aurora, Ind. Revolving screen. 1,473,745; Nov. 13.
Stedman, George M., assignor to Stedman's Foundry & Machine Works, Aurora, Ind. Revolving screen. 1,473,746; Nov. 13.
Stedman's Foundry & Machine Works. (See Stedman, George M., assignor.)
Steel, Charles C., Williamsport, Pa. Metallic railway tie. 1,474,298; Nov. 13.
Steel Products Company, The. (See Garman, Harry B., assignor.)
Steele, James R., Owego, N. Y. Anticreeper. 1,473,652; Nov. 13.
Steere, Clarence E., Redondo Beach, Calif. Wrapping machine. 1,474,181; Nov. 13.
Stehle, William H. (See Hughes, James W., assignor.)
Steinecke, Fritz, Remscheid, Germany, assignor to the Firm: Mannesmannröhren-Werke, Dusseldorf, Germany. Rolling mill. 1,474,124; Nov. 13.
Steinhardt, Adolph, et al. (See Burgess, William E., assignor.)
Stenhouse, David, Clarksburg, W. Va. Leer for annealing glassware. 1,474,058; Nov. 13.
Stephens, Thomas J., Cleveland, Ohio. Shaving kit. 1,473,653; Nov. 13.
Stevens, Henry C., Oakland, Calif. Peep opening for wireless-telegraph radio boxes. 1,473,941; Nov. 13.
Stewart, Albert D. (See Cumfer, Harry A., assignor.)
Stewart, Minor, et al. (See Cardwell, Charles E., assignor.)
Stewart-Warner Speedometer Corporation. (See Grant, Hugo B., assignor.)
Stirn, Charles, San Francisco, Calif. Hot food tray. 1,473,799; Nov. 13.
Stocq, Edmond, Neuilly-sur-Seine, France. Device for driving stone and marble sawing blades. 1,474,299; Nov. 13.
Stokely, Ray, Floral Park, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone-exchange system. 1,474,008; Nov. 13.
Stoughton, Harry R., Plymouth, Ind. Swivel joint for speedometers. 1,473,886; Nov. 13.
Strauss, Ferdinand, New York, N. Y. Fastening device. 1,473,942; Nov. 13.
Straw, Arteemes D., Wauseon, assignor to The Hubert A. Myers Company, Toledo, Ohio. Coating molds. 1,474,009; Nov. 13.
Strifler, Chester E., Alhambra, Calif., assignor of one-half to S. Q. Shannon, Los Angeles, Calif. Tire-holding device. 1,473,943; Nov. 13.
Stromberg Motor Devices Company. (See Mock, Frank C., assignor.)
Stroock, Bertram A., Newburgh, N. Y. Printed tapestry. 1,474,182; Nov. 13.
Strosacker, Charles J., and H. J. Rupright, assignors to The Dow Chemical Company, Midland, Mich. Making brominated indigos. 1,473,887; Nov. 13.
Stroud, Lamont H., Sheridan, Wyo. Anchor for grease cups or plugs. 1,474,300; Nov. 13.
Sturdivant, Armydis E. (See White, S. O., and Sturdivant.)
Sturgis, William B., assignor to General Explosives Company, Chicago, Ill. Producing explosives. 1,473,685; Nov. 13.
Sullivan, James J., assignor to William Brown Company, Philadelphia, Pa. Hosiery. 1,473,686; Nov. 13.
Sullivan, John M., Culver, Ind. Water-tube boiler. 1,473,712; Nov. 13.
Sullivan Machinery Company. (See Gartin, Elmer G., assignor.)
Sullivan Machinery Company. (See Wyman, Charles W., assignor.)
Sumner, Henry, New Bedford, Mass. Umbrella identifier. 1,473,654; Nov. 13.
Superheater Company, The. (See Broido, Benjamin N., assignor.)
Superheater Company, The. (See Ostermann, Rudolf M., assignor.)
Superior Manufacturing Company. (See Woock, Walter R., H. J., and E. M.)
Svalgaard, John W., Madelia, Minn. Shovel. 1,474,213; Nov. 13.
Swartz, Fred L., assignor of one-half to G. Montville, deceased, Toledo, Ohio; E. Montville, administratrix. Automatic door operating and controlling means. 1,474,214; Nov. 13.
Sweeley, Edward A., Alexandria, Va., assignor to The Wine Railway Appliance Co., Toledo, Ohio. Hatch cover and means for supporting and locking the same. 1,473,655; Nov. 13.
Switzer, William A., New York, N. Y. Cap for a condiment holder. Des. 63,273; Nov. 13.
Symington, T. H., Company, The. (See Barrows, Donald S., assignor.)
Symington, T. H., Company, The. (See Lucas, Walter A., assignor.)
Symington, T. H., Company, The. (See Wright, Ira O., assignor.)
Tan Sad Limited. (See Headley, Frederick H., assignor.)
Tanner, Arnold J. (See Boyler, Emanuel J., assignor.)
Tate, Samuel G., assignor to Union Special Machine Company, Chicago, Ill. Seam for sewed articles. 1,473,687; Nov. 13.
Taylor, Augustus. (See Beal, Ralph R., assignor.)
Taylor, C. A., Trunk Works. (See Moore, Charles, assignor.)
Taylor, James E., assignor of one-half to C. B. O'Beirne, Dallas, Tex. Accelerator. 1,473,944; Nov. 13.
Teetor, John M. (See Kemper, J. H., Hoffman, and Teetor.)
Therrien, Hubert, Montreal, Quebec, Canada. Artificial hand. 1,474,301; Nov. 13.
Thomas, Albert G., Lynchburg, Va. Mechanism for removing carbon from cylinders of internal-combustion engines. 1,473,688; Nov. 13.
Thomas Manufacturing Company, The. (See Pelton, C. H., and Rhoderick, assignors.)
Thompson, Allison J., Cleveland, Ohio. Lamp hanger. 1,473,713; Nov. 13.
Thompson, Alonzo, Philadelphia, Pa. Correspondence folder. 1,473,747; Nov. 13.
Thompson, James W., Wichita, Kans. Revolving bread rack. 1,474,302; Nov. 13.
Thompson, Wilbur R., Franklin Township, Owen County, Ind., assignor of one-half to E. P. Warren, Indianapolis, Ind. Removable beam bottom form hanger and spacer. 1,473,888; Nov. 13.
Thun, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Measurement-stamping apparatus. 1,474,098; Nov. 13.
Tite-Pack Filler Co. (See Segur, Asa B., assignor.)
Toy, George D. and H. T., Sidney, Ohio. Driving gear for snowplows. 1,473,889; Nov. 13.
Toy, George D. and H. T., Sidney, Ohio. Scraper. 1,473,890; Nov. 13.
Toy, Hugh T. (See Toy, George D. and H. T.)
Traver, Harry G., Beaver Falls, Pa. Aeroplane swing. 1,473,980; Nov. 13.
Trosky, Charles L., and C. C. Marsh, assignors to Allison Experimental Company, Indianapolis, Ind. Method of and means for testing gears. 1,473,748; Nov. 13.
Tucker, Frederick D., et al, trustees. (See Allen, James M., assignor.)
Tygard, Elizabeth A. (See Tygard, James W. and E. A.)
Tygard, James W. and E. A., Toronto, Ontario, Canada. Mechanical vaporizing oil burner. 1,473,891; Nov. 13.
U. S. Ball Bearing Manufacturing Company. (See Diesk, John, assignor.)
U. S. Industrial Alcohol Co. (See Backhaus, Arthur A., assignor.)
Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)
Union Metal Products Company. (See Gilpin, Garth G., assignor.)
Union Special Machine Company. (See Moffatt, James R., assignor.)
Union Special Machine Company. (See Tate, Samuel G., assignor.)
United Shoe Machinery Corporation. (See Bates, Arthur, assignor.)
United Shoe Machinery Corporation. (See Brogan, James A., assignor.)
United Shoe Machinery Corporation. (See Eaton, Harrison H., assignor.)
United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
United States Welding Company. (See Campbell, Lorn, jr., assignor.)

Universal Safety Ash Tray Company. (See Downey, John F., assignor.)
Vandamark, Olive E., Los Angeles, Calif. Curler. 1,473,749; Nov. 13.
Vanderhoof, Harold, and W. Gilliz, San Francisco, Calif. Demountable brake lining. 1,474,215; Nov. 13.
Van Dorn Iron Works Company, The. (See Schaefer, Joseph, assignor.)
Van Ruymbeke, Joseph, Marseille, France. Production of alcohol. 1,474,216; Nov. 13.
Vapor Car Heating Co. (See Loudon, Warren P., assignor.)
Veres, Joe, Lloydell, Pa. Dog muzzle. 1,474,303; Nov. 13.
Vesely, Stanley J., Cedar Rapids, Iowa. Shock absorber. 1,474,125; Nov. 13.
Vesely, Stanley J., Cedar Rapids, Iowa. Shock absorber. 1,474,126; Nov. 13.
Vester, Alfred, & Sons, Inc. (See Ainsworth, George, assignor.)
Vester, Alfred, Sons, Inc. (See McFadden, Glenn E., assignor.)
Victory Automobile Accessories Limited. (See Coo, Thomas J., assignor.)
Vieth, Albert B., jr., Philadelphia, Pa. Box opener. 1,473,892; Nov. 13.
Voellmecke, Carl H., Cincinnati, Ohio. Pipe hanger. 1,474,059; Nov. 13.
Wagenhorst, James H., Akron, Ohio. Metal wheel. 1,474,183; Nov. 13.
Wagenhorst, James H., Jackson, Mich. Rotary internal-combustion engine. 1,473,656; Nov. 13.
Wagenlander, George, Washington, D. C. Internal-combustion engine. 1,474,217; Nov. 13.
Wagner, Francis M., Pittsburgh, Pa. Safety pin. 1,474,127; Nov. 13.
Wagner, Fred W., Pittsburgh, Pa. Purification of waste liquors. 1,473,750; Nov. 13.
Wagner, Fritz, Berlin-Lichterfelde, Germany. Water-purifying system for locomotives. 1,474,218; Nov. 13.
Wagner, Jesse W., Silverdale, Kans. Wall board. 1,473,981; Nov. 13.
Wahl, Leo J., Sterling, Ill. Electric clipper. 1,474,128; Nov. 13.
Waldon, Sidney D. (See Sherbondy, Earl H., assignor.)
Walker, Henry B. (See Brown, C. O., and Walker.)
Walker, James J., Youngstown, Ohio. Lock for water meters. 1,473,751; Nov. 13.
Walker, Mathew. (See Harrison, J. H., and Walker.)
Wallace, Philip B., and F. H. Fox, San Francisco, Calif.; said Fox assignor to said Wallace. Bending machine. 1,473,893; Nov. 13.
Waller, Alfred E., Bronxville, N. Y., assignor to Ward Leonard Electric Company. Rheostat. 1,474,060; Nov. 13.
Walliser, Carl O., assignor to H. F. Walliser Company, Chicago, Ill. Edging. Des. 63,275; Nov. 13.
Walliser, H. F., Company. (See Walliser, Carl O., assignor.)
Ward Leonard Electric Company. (See Waller, Alfred E., assignor.)
Warner Gear Company. (See White, S. O., and Sturdivant, assignors.)
Warren, Elmer P. (See Thompson, William R., assignor.)
Warren, William C., Philadelphia, Pa., assignor to S. L. Allen & Co., Inc. Seed drill. 1,474,184; Nov. 13.
Washburn Company, The. (See Douglas, Hammond B., assignor.)
Washington Manufacturing Company. (See Knott, H. H., Jungbluth, and Hammer, assignors.)
Watson, Rufus M., Norfolk, Va. Priming attachment for internal-combustion engines. 1,474,219; Nov. 13.
Watson, William W., Jamestown, N. Y. Sheet-metal window screen for railway cars. 1,473,982; Nov. 13.
Waukesha Motor Company. (See Ricardo, Harry R., assignor.)
Weatherby, Horace F., Seattle, Wash. Lumber-pile vehicle. 1,473,894; Nov. 13.
Webb, Zaida B., New Haven, Conn. Card cut-out. 1,473,800; Nov. 13.
Weber, Georg, Egelsbach, assignor to the Firm C. & W. Bohnert, Frankfort-on-the-Main, Germany. Electric table lamp with brake-controlled supporting arms for incandescent lamps. 1,474,304; Nov. 13.
Weidner, Frank E., Maryville, Mo. Apparatus for controlling the water level in boilers. 1,473,714; Nov. 13.
Weinberg, Fritz, Sannieshof, Transvaal, South Africa. Garter or sock suspender. 1,474,220; Nov. 13.
Weiss, Leopold, Vienna, Austria. Manufacture of modified starch. 1,474,129; Nov. 13.
Welsh, Sidney F. (See Moore, E., and Welsh.)
Wenham, George H., Bromley, England. Folding hood for motor vehicles and the like. 1,473,895; Nov. 13.
Weasel, Harry G., Lakewood, Ohio. Hose clamp. 1,473,715; Nov. 13.
Western Electric Company. (See Helsing, Raymond A., assignor.)
Western Electric Company. (See Johnson, Edgar D., assignor.)
Western Electric Company. (See Stokely, Ray, assignor.)
Westfield Manufacturing Company. (See Clark, George W., assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Baxter, Harold G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Breisch, Edgar H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Frederick, Louis T., assignor.)
Westinghouse Electric & Manufacturing Company. (See James, Henry D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kempton, Willard H., assignor.)
Westinghouse Electric & Manufacturing Company. (See McWhirter, John S., assignor.)
Westinghouse Electric and Manufacturing Company. (See Mills, Chester B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Nyman, Alexander, assignor.)
Westinghouse Electric & Manufacturing Company. (See Scott, Charles F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
Whipple, Raymond L., D. P. Rockwell, and C. C. Featherstone, Lehi, Utah. Automatic tire-pressure gauge. 1,474,099; Nov. 13.
White, Samuel O., and A. E. Sturdivant, assignors to Warner Gear Company, Muncie, Ind. Clutch-actuating thrust bearing. 1,473,801; Nov. 13.
White, Virgil D., assignor of one-half to W. A. Woodward, Cottage Grove, Oreg. Safety butt hook. 1,473,983; Nov. 13.
Whiting, Ernest C., Allston, Mass. Automobile seat. 1,473,945; Nov. 13.
Wiederwax, Robert W., assignor to Geist Manufacturing Company, Atlantic City, N. J. Fuel-oil burner. 1,473,657; Nov. 13.
Wightman & Hough Company. (See Hough, Herbert D., assignor.)
Will, Victor R. (See Normandi, Norman L., assignor.)
Willcox, Frederick H., assignor to Freyn, Brassert & Company, Chicago, Ill. Gas bleeder. 1,473,716; Nov. 13.
Williams, Clarence B., St. Petersburg, Fla. Bottle carrier. 1,474,305; Nov. 13.
Williams, William E., Wilmette, Ill. Automobile bumper. 1,473,689; Nov. 13.
Williamson, Clarence H., Altoona, Pa. Truck side frame. 1,474,306; Nov. 13.
Williamson, Clarence H., Bellwood, Pa. Truck side frame. 1,474,307; Nov. 13.
Willys-Morrow Company, The. (See Knowles, Harford C., assignor.)
Willys-Overland Company, The. (See Belden, Edward H., assignor.)
Willys-Overland Company, The. (See Grimm, George E., assignor.)
Willys-Overland Company, The. (See Harrington, William F., assignor.)
Willys-Overland Company, The. (See King, Fred B., assignor.)
Willys-Overland Company, The. (See Koelker, Oscar H., assignor.)
Wimberly, Oscar N., Jacksonville, Fla. Fastening for lose-preventing devices. 1,474,308; Nov. 13.
Wine Railway Appliance Co., The. (See Sweeley, Edward A., assignor.)
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on shoes. 1,473,660; Nov. 13.
Witten, William A., Duncan, Okla. Resilient wheel. 1,473,918; Nov. 13.
Wolfe, Jay A., assignor to The Columbus Heating and Ventilating Company, Columbus, Ohio. Heating and ventilating equipment. 1,473,896; Nov. 13.
Wolff, Wallace B., Chicago, Ill. Slicing machine. 1,473,658; Nov. 13.
Wolff, Wallace B., Chicago, Ill. Slicing machine. 1,473,659; Nov. 13.
Wolner, Oscar H., Elcor, Minn. Serial-flow turbine. 1,473,690; Nov. 13.
Woock, Eric M. (See Woock, Walter R., H. J., and E. M.)
Woock, Herbert J. (See Woock, Walter R., H. J., and E. M.)
Woock, Walter R., H. J., and E. M., assignors to Superior Manufacturing Company, Lodi, Calif. Centrifugal pump with self-centering runner. 1,473,802; Nov. 13.
Wood, Charles D., and E. R. De Long, Boston, Mass. Safety device for elevator wells. 1,474,185; Nov. 13.
Wood, Joseph C., Jackson, Tenn. Station indicator. 1,473,752; Nov. 13.
Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
Woodward, Walter A. (See White, Virgil D., assignor.)
Wright, Ira O., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Draft rigging. 1,474,309; Nov. 13.
Wright Rubber Products Company. (See Healy, Leon J. D., assignor.)
Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Electric control system. 1,474,310; Nov. 13.
Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,474,311; Nov. 13.

Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Electric control mechanism. 1,474,312; Nov. 13.
Yokel, Frank, Avalon, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Lamp standard. Des. 63,274; Nov. 13.
Young, Charles D., Philadelphia, Pa. Joint bar. 1,473,753; Nov. 13.
Young, Clifford H., St. Louis, Mo. Steering mechanism for vehicles. 1,473,691; Nov. 13.
Young, L. A., Industries, Incorporated. (See Holtfoth, Joachim T., assignor.)
Zachariadis, Theophilos, London, England. Apparatus for drawing and twisting slivers and the like. 1,474,131; Nov. 13.
Zachariadis, Theophilus, London, England. Spinning mill. 1,474,130; Nov. 13.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF NOVEMBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Accelerator. J. E. Taylor. 1,473,944; Nov. 13.
Acid, Manufacture of sulphuric. F. A. Rudolf and J. C. Ryder. 1,473,879; Nov. 13.
Acoustic receiving apparatus. C. A. Culver. 1,474,242.
Adding machine. H. Landsiedel. Re15,723; Nov. 13.
Aeroplane swing. H. G. Traver. 1,473,980; Nov. 13.
Air circulator. A. G. Scherer. 1,473,648; Nov. 13.
Airship. D. Smith. 1,473,744; Nov. 13.
Alcohol production. J. Van Ruymbeke. 1,474,216; Nov. 13.
Amusement apparatus. P. A. Lalle and C. F. Fowler. 1,474,335; Nov. 13.
Amusement device. A. W. Marmon. 1,473,914; Nov. 13.
Anchorage unit. G. Kohler and C. B. Smith. 1,474,154; Nov. 13.
Anhydrous magnesium chloride, Manufacturing a composition containing. I. Namari. 1,473,966; Nov. 13.
Animal trap. W. B. Gilmore. 1,473,847; Nov. 13.
Anticreeper. J. R. Steele. 1,473,652; Nov. 13.
Ash trays, Forming decorated. J. F. Downey. 1,474,108; Nov. 13.
Auger or bit. A. W. McCurdy. 1,474,049; Nov. 13.
Augers, Producing. A. W. McCurdy. 1,474,050; Nov. 13.
Auto jack. R. E. Ankerman. 1,474,223; Nov. 13.
Auto lock. H. W. Schoff. 1,474,211; Nov. 13.
Automobile. J. N. and R. R. Macdonald. 1,474,203; Nov. 13.
Automobile bumper. W. E. Williams. 1,473,689; Nov. 13.
Automobile curtains, Window for. M. G. Roberts. 1,474,166; Nov. 13.
Automobile drive casings, Screw-holding device for. E. C. Bryan and P. J. Sones. 1,474,233; Nov. 13.
Automobile frame and pressed-steel constructional element therefor. R. S. Smith. 1,473,651; Nov. 13.
Automobile seat. E. C. Whiting. 1,473,945; Nov. 13.
Automobile signal. D. F. Peters. 1,473,683; Nov. 13.
Automobile steering-wheel lock. L. T. Rhoades. 1,473,873; Nov. 13.
Automobile ventilator. F. V. Gallaugher. 1,474,075; Nov. 13.
Automobiles, Convertible body for. H. Mystrom and R. E. Nelson. 1,474,283; Nov. 13.
Automobiles, Locking device and alarm for. F. Hoyt and C. F. Holmes. 1,474,262; Nov. 13.
Bag frame. R. L. Prahar. 1,473,972–3; Nov. 13.
Bags, Constructing hand. T. H. Gotlsar. 1,473,932; Nov. 13.
Ball retainers, Dies for forming. J. Diesk. 1,474,073; Nov. 13.
Bands, Device for expanding endless. G. H. Lewis. 1,473,822; Nov. 13.
Bank, Coin. W. D. and J. R. Pennington. 1,473,864; Nov. 13.
Bank, Multiple-coin-registering. A. E. Jacobs. 1,474,333; Nov. 13.
Bank, Single-coin-registering. A. E. Jacobs. 1,474,332; Nov. 13.
Bar: *See*—
Joint bar.
Barrel, Collapsible. N. E. McLoon. 1,474,052; Nov. 13.
Barrels, Machine for heading up. W. Clark. 1,474,069; Nov. 13.
Basket, Waste. J. Schaefer. 1,473,742; Nov. 13.
Battery: *See*—
Storage battery.
Batteries, Automatic water filler for storage. J. D. Sartakoff and W. V. Forrest. 1,474,169; Nov. 13.
Beam bottom form hanger and spacer, Removable. W. R. Thompson. 1,473,888; Nov. 13.
Beam head. F. Mossberg. 1,473,681; Nov. 13.
Bearing. V. G. Apple. 1,474,134; Nov. 13.
Bearing, Antifriction. H. C. Knowles. 1,474,081; Nov. 13.
Bearing, Clutch-actuating thrust. S. O. White and A. E. Sturdivant. 1,473,801; Nov. 13.
Bearing, Fluid-cooled. C. B. Mills. 1,473,827; Nov. 13.
Bedstead. J. A. Caldwell. 1,474,237; Nov. 13.
Bell, Electric. R. B. Benjamin. 1,474,014; Nov. 13.
Belt cutter. H. Reichel. 1,473,642; Nov. 13.
Bending machine. P. B. Wallace and F. H. Fox. 1,473,883; Nov. 13.
Bevel, Registering. M. Mullarkey. 1,473,860; Nov. 13.
Beverages, Display apparatus for preparing and dispensing fresh fruit. J. Levin. 1,473,776; Nov. 13.

Billiard cues and the like, Ornamenting. J. R. Kelper. 1,474,043; Nov. 13.
Blasting caps, Explosive for use in. J. Marshall. 1,473,825; Nov. 13.
Block: *See*—
Building block. Gear follower block.
Blowpipe. L. Campbell, jr. 1,474,189; Nov. 13.
Board: *See*—
Game board. Wall board.
Plaster-receiving board.
Boiler: *See*—
Water-tube boiler.
Boiler. J. M. McClellon. 1,474,156; Nov. 13.
Boiler construction. T. Larrey and L. Godard. 1,474,116; Nov. 13.
Boiler tubes and the like, Expanding device for. P. Slesazeck. 1,473,884; Nov. 13.
Boilers, Apparatus for controlling the water level in. F. E. Weidner. 1,473,714; Nov. 13.
Bolt: *See*—
Spindle bolt.
Bolts, pipes, etc., Threading machine for. A. L. Leffingwell. 1,474,327; Nov. 13.
Boots and shoes, Machine for making stiffeners, stiffening material, insoles, and like parts for. D. B. Macdonald. 1,474,202; Nov. 13.
Boots and shoes, Tack-extracting machine for. E. P. Corps. 1,473,923; Nov. 13.
Boring and reaming holes in metal, Tool for. J. M. Davie. 1,473,781; Nov. 13.
Bottle carrier. C. B. Williams. 1,474,305; Nov. 13.
Bottle holder. C. A. F. Ducorron. 1,474,322; Nov. 13.
Bottle opener. E. Camp and A. F. Schatzel. 1,474,105; Nov. 13.
Bottle opener, Milk-. W. Hughes. 1,473,936; Nov. 13.
Bowl. F. Carder. Des. 63,252; Nov. 13.
Box: *See*—
Metal box.
Box and attachment therefor. E. C. J. Lloyd. 1,474,271; Nov. 13.
Box-cover press. J. W. Robbins. 1,473,643; Nov. 13.
Box opener. A. B. Vieth, sr. 1,473,892; Nov. 13.
Brace: *See*—
Rail brace.
Braces. P. M. J. Lafièche. 1,474,268; Nov. 13.
Bracelet or like article of jewelry. A. L. Newman. 1,473,796; Nov. 13.
Bracket: *See*—
Ladder bracket.
Brake and throttle pedal, Combined. G. Ballbe. 1,473,984; Nov. 13.
Brake-beam fulcrum strut. W. E. Fowler, jr. 1,474,110; Nov. 13.
Brake beams and making same, Reversible strut for. A. P. Rissler and W. G. Hamilton. 1,474,165; Nov. 13.
Brake drums, Grease shield for. W. D. Beightol. 1,473,664; Nov. 13.
Brake lining, Demountable. H. Vanderhoof and W. Gillig. 1,474,215; Nov. 13.
Bread-dumping machine. J. A. McGarry. 1,473,996; Nov. 13.
Bread rack, Revolving. J. W. Thompson. 1,474,302; Nov. 13.
Brush, Air. B. E. Holton. 1,474,324; Nov. 13.
Buckle, Belt. H. D. Hough. 1,473,727; Nov. 13.
Buckle, Belt. E. N. Humphrey. 1,473,991; Nov. 13.
Buckles, Webbing clip hook for. W. E. Hatheway. 1,474,030; Nov. 13.
Buffer construction. G. A. Lyon. 1,474,273; Nov. 13.
Buffing wheel. T. W. Haurath. 1,473,765; Nov. 13.
Building block. A. G. Hatch. 1,473,627; Nov. 13.
Building construction. R. Z. Hopkins. 1,474,148; Nov. 13.
Bulb holder. G. C. Allen. 1,474,221; Nov. 13.
Bundle receptacle, Collapsible. C. E. Cardwell. Re15,720; Nov. 13.
Burner: *See*—
Oil burner.
Butt hook, Safety. V. D. White. 1,473,983; Nov. 13.
Button stringer. F. L. Eberley. 1,473,955; Nov. 13.
Cabinet. F. W. Mazsick. 1,473,793; Nov. 13.
Cabinet, Display. J. Pinten. 1,473,868; Nov. 13.
Calculating machine. E. F. Britten, jr. 1,474,230; Nov. 13.

Calculating machines, Adjusting mechanism for. L. Beckenbauer. 1,474,137; Nov. 13.
Calculating machines, Selector mechanism for. G. C. Chase. 1,474,238; Nov. 13.
Calculator. A. L. Beck. 1,473,948; Nov. 13.
Cameras, Exposure-identification attachment for. C. A. Charbeneau. 1,473,902; Nov. 13.
Cameras, Stylus attachment for. C. F. Speidel. 1,473,798; Nov. 13.
Can holder and opener. L. Grundband and O. Isell. 1,474,077; Nov. 13.
Can opener. T. L. Croom. 1,473,780; Nov. 13.
Can-sealing machine. C. T. Small. 1,474,176; Nov. 13.
Cans and like containers, Opener for. E. J. Boyler. 1,474,064; Nov. 13.
Candy-cutting apparatus. E. W. Roberts. 1,474,004; Nov. 13.
Cap spreader. A. P. Quenzer. 1,474,330; Nov. 13.
Capsules, Container for coloring-agent. A. English. 1,474,248; Nov. 13.
Car construction. B. W. Kadel. 1,476,909; Nov. 13.
Car-coupler uncoupling device, Railway-. I. Everett. 1,473,721; Nov. 13.
Car couplers, Uncoupling device for. G. G. Gilpin. 1,474,193; Nov. 13.
Car door. O. Momb. 1,473,829; Nov. 13.
Car trailers, Safety device for street-. J. S. Barnette, jr. 1,473,718; Nov. 13.
Car unloader, Box-. R. C. Francke. 1,473,815; Nov. 13.
Cars, End reenforcement for railway box. E. E. Schlesinger. 1,473,743; Nov. 13.
Cars, Loading apparatus for gasoline tank. W. T. Simpson. 1,474,297; Nov. 13.
Cars, motor vehicles; cycle, gas, oil, and steam engines, Means for silencing explosion noises connected with motor. F. Heather. 1,474,115; Nov. 13.
Cars, Sheet-metal window screen for railway. W. W. Watson. 1,473,982; Nov. 13.
Carbon remover. W. F. Brand and E. O. Quarnstrom. 1,473,605; Nov. 13.
Carburetor. J. B. Dutour. 1,473,720; Nov. 13.
Card cut-out. Z. B. Webb. 1,473,800; Nov. 13.
Card-punching machine. J. H. Gault. 1,473,618; Nov. 13.
Card rack. H. M. Lawton. 1,473,821; Nov. 13.
Carrier: *See*—
Bottle carrier. Reel carrier.
Carrier case and stand, Combined. A. S. Schechter. 1,474,170; Nov. 13.
Carrier systems, Repeater apparatus for. H. S. Osborne. 1,473,682; Nov. 13.
Carton for fragile articles. L. Mann and M. Koppelman 1,473,635; Nov. 13.
Carton lids, Clip for. C. Promislo. 1,473,871; Nov. 13.
Cartridges capable of absorbing liquefied gases, Producing blasting. L. Lisse. 1,473,994; Nov. 13.
Case hanger. W. C. Fraser. 1,473,699; Nov. 13.
Cement mixer. F. W. Huber. 1,473,990; Nov. 13.
Centrifugal machine. A. R. Robertson and A. F. Dunsmore. 1,474,331; Nov. 13.
Chain fastener. T. W. Burkett. 1,474,141; Nov. 13.
Chains, Metbod of and apparatus for making bushes and rollers for gear. R. O. Herford and A. Renshaw. 1,473,855; Nov. 13.
Chair: *See*—
Collapsible chair.
Chair and display rack, Combined. A. L. and F. G. Guthridge. 1,473,702; Nov. 13.
Chassis, Body for Ford. J. H. Butler. 1,474,235; Nov. 13.
Cigar container and humidor. G. Karp. 1,474,264; Nov. 13.
Cigarette or cigar holders, Ejector for. C. L. Bartholome. 1,473,663; Nov. 13.
Circuit closer, Thermostatic. M. C. McPherson. 1,473,962; Nov. 13.
Circuit-opening device. T. F. Johnson, jr. 1,473,959; Nov. 13.
Clamp: *See*—
Hose clamp. Tank clamp.
Miter clamp.
Clasp: *See*—
Shoe clasp.
Clay pots, Apparatus for forming. C. H. McCutcheon. 1,473,791; Nov. 13.
Cleaner: *See*—
Yarn cleaner.
Clearer, Rotary. A. Cook. 1,474,144; Nov. 13.
Clip: *See*—
Paper clip.
Clipper, Electric. L. J. Wahl. 1,474,128; Nov. 13.
Closet tanks, Hard-rubber flush ball for water-. J. Phillips. 1,474,286; Nov. 13.
Clothes drier. M. Needler. 1,474,281; Nov. 13.
Clothes-wringer frame. A. O. Hubbard. 1,473,769; Nov. 13.
Clothes wringers, Mounting for centrifugal. J. F. Geibel. 1,474,323; Nov. 13.
Clutch and brake device, Combined. W. F. Groene. 1,474,112; Nov. 13.
Clutch, Friction. E. O. Hamren. 1,473,626; Nov. 13.
Clutch, Hydraulic. W. W. Sides and E. F. Preston. 1,474,007; Nov. 13.
Clutch jaws, Facing for. C. F. Rohwer. 1,473,735; Nov. 13.

Coffee-making machine. R. F. Bossini. 1,473,898; Nov. 13.
Coil, Three-phase reactance. A. Nyman. 1,473,862; Nov. 13.
Coin-controlled delivery apparatus. B. P. Cooper. 1,474,070; Nov. 13.
Collapsible chair. J. A. Freeze. 1,474,191; Nov. 13.
Collar and muzzle, Combined. J. W. Brown. 1,474,231; Nov. 13.
Collar fastener. J. J. Furlong. 1,474,252; Nov. 13.
Comb, Spanish. F. Spill. Des. 63,271; Nov. 13.
Concrete form, Adjustable. C. F. Moore. 1,473,964–5; Nov. 13.
Concrete-pipe-making machine. C. R. Nichols. 1,473,969; Nov. 13.
Condenser, Electrolytic. J. Slepian. 1,473,883; Nov. 13.
Condiment holder, Cap for a. W. A. Switzer. Des. 63,273; Nov. 13.
Container. C. A. Ketterer. 1,474,326; Nov. 13.
Container. J. H. Newhard. 1,473,732; Nov. 13.
Container and spout. E. H. Dryer. 1,473,925; Nov. 13.
Container, Slide-top. R. N. Doble. 1,473,782; Nov. 13.
Control apparatus. J. S. McWhirter. 1,473,824; Nov. 13.
Conveyer. I. L. Bretzfelder. 1,473,808; Nov. 13.
Conveyer, Elevator. L. B. Neighbour. 1,473,795; Nov. 13.
Cork-inserting machine. C. Boisset. 1,474,227; Nov. 13.
Correspondence folder. A. Thompson. 1,473,747; Nov. 13.
Cot, Folding. J. L. McKellar. 1,474,200; Nov. 13.
Counter-current apparatus. H. Bollmann. 1,474,062; Nov. 13.
Coupling device. E. O. Hamren. 1,473,625; Nov. 13.
Coupon transfer. R. R. Smith. 1,473,940; Nov. 13.
Crank pin and shaft truing tool. C. N. Atherton and A. L. Salter. 1,473,804; Nov. 13.
Crystal mounting. W. M. Scott. 1,474,173; Nov. 13.
Cup or similar article. E. W. Newton. Des. 63,265; Nov 13.
Curler. O. E. Vandamark. 1,473,749; Nov. 13.
Current motor, Alternating-. H. W. Jeannin. 1,474,037; Nov. 13.
Curtain fastener. H. I. Phillips. 1,474,208; Nov. 13.
Cushion, Spring-seat. F. B. King. 1,474,080; Nov. 13.
Cutter: *See*—
Belt cutter. Rotary cutter.
Cutting machine. G. Kalenoff. 1,473,629; Nov. 13.
Cycles and motor cycles, Saddle support adaptable to. J. C. M. Dupont. 1,474,109; Nov. 13.
Cycles, Hand brake for. G. W. Clark. 1,474,068; Nov. 13.
Damper. A. Specht. 1,474,123; Nov. 13.
Decolorizing material and making same. H. Rodman and E. E. Boren. 1,474,120; Nov. 13.
Decoy. C. L. Dewey. 1,473,612; Nov. 13.
Dental appliance. F. T. McClaskey. 1,474,084; Nov. 13.
Depots, Loading stage for. S. Otis. 1,473,709; Nov. 13.
Derrick base. J. T. Horton. 1,473,935; Nov. 13.
Derrick braces, Hook fastening for. F. Brandt. 1,473,835; Nov. 13.
Die: *See*—
Threading die.
Dispensing device. C. H. Leonard. 1,474,083; Nov. 13.
Display device. F. L. Donovan. 1,474,246; Nov. 13.
Dock, Sectional floating dry. E. M. Long. 1,474,336; Nov. 13.
Door and frame construction. E. Schmale. 1,473,978; Nov. 13.
Door operating and controlling means, Automatic. F. L. Swartz. 1,474,214; Nov. 13.
Door, Self-opening garage. A. Fuerstenberg. 1,473,843; Nov. 13.
Doorlatch. T. J. Coo. 1,473,836; Nov. 13.
Doorlatch. R. G. Moore. 1,474,158; Nov. 13.
Doorstop D. W. Emslie. 1,473,926; Nov. 13.
Doorstop. M. J. Sasgen. 1,473,833–4; Nov. 13.
Draft apparatus, Induced and forced. E. Prat. 1,473,870; Nov. 13.
Draft rigging. D. S. Barrows. 1,474,224; Nov. 13.
Draft rigging. I. O. Wright. 1,474,309; Nov. 13.
Drawer pull. H. Heidland. 1,473,854; Nov. 13.
Drier: *See*—
Clothes drier. Portable drier.
Drier. G. F. Hauserman. 1,474,258; Nov. 13.
Drill: *See*—
Seed drill.
Drilling apparatus. J. W. Hughes. 1,474,036; Nov. 13.
Drilling machine. C. B. Long. 1,473,995; Nov. 13.
Driving-box shoe hanger. L. Berg. 1,473,949; Nov. 13.
Dust-collecting device. H. H. Eaton. 1,473,613; Nov. 13.
Dustguard for drag links. H. B. Garman. 1,473,931; Nov. 13.
Edging. C. O. Walliser. Des. 63,275; Nov. 13.
Egg-case filler. A. B. Segur. 1,473,917; Nov. 13.
Egg tray. R. Delarmi. Des. 63,253; Nov. 13.
Egg turner. J. Matheus and H. Scheddin. 1,473,792; Nov. 13.
Electric control mechanism. C. W. Wyman. 1,474,312; Nov. 13.
Electric control system. C. W. Wyman. 1,474,310; Nov. 13.
Electric heat device. T. C. Russell. 1,473,645; Nov. 13.
Electric heater. S. I. Phelps. 1,473,865; Nov. 13.
Electric heater. S. I. Phelps. 1,473,867; Nov. 13.
Electric heating system. L. P. Hynes. 1,474,150; Nov. 13.

Electric-lighting system. J. B. Bushnell. 1,473,900; Nov. 13.
Electric switch. R. B. Benjamin. 1,474,013; Nov. 13
Electric switch. C. D. Bottomley. 1,473,950; Nov. 13.
Electrode for ion concentration effects. E. A. Keeler. 1,474,151; Nov. 13.
Electromotors. Switch drum for starting and controlling. L. Schon. 1,474,094; Nov. 13.
Elevator: *See*—
Stairway elevator.
Elevator buffer. W. S. Atkinson. 1,473,692; Nov. 13.
Embroidery frame. W. H. Gosch. 1,473,622; Nov. 13.
Emulsifier. Centrifugal. C. F. Paul, jr. 1,473,734; Nov. 13.
Enameled ware, Marking. E. S. Denk. 1,473,903; Nov. 13.
Engine: *See*—
Internal-combustion engine.
Engine-starting apparatus. A. H. Abell. 1,474,010; Nov. 13.
Engines, Air inspirator for. W. W. Hallinan. 1,473,726; Nov. 13.
Engines, Fuel-fogging device for internal-combustion. F. C. Mock. 1,473,999; Nov. 13.
Engines, Impulse starter and ignition booster for internal-combustion. L. C. Hall. 1,473,725; Nov. 13.
Engines, Mechanism for removing carbon from cylinders of internal-combustion. A. G. Thomas. 1,473,688; Nov. 13.
Engines, Priming attachment for internal-combustion. R. M. Watson. 1,474,219; Nov. 13.
Envelope blanks, Method of and apparatus for cutting deckle-edged. C. W. Lynch. 1,474,048; Nov. 13.
Envelope, Combination. G. W. Hall. 1,474,194; Nov. 13.
Envelope-making machines, End-flap-folding mechanism for. A. E. Augustine. 1,473,603; Nov. 13.
Excavator. P. Burke. 1,474,314; Nov. 13.
Explosives, Priming mixture for propellant. C. I. B. Henning. 1,473,818; Nov. 13.
Explosives, Producing. W. B. Sturgis. 1,473,685; Nov. 13.
Eyeshade. L. J. Gerhardt. 1,473,619; Nov. 13.
Fabric: *See*—
Webbing fabric.
Fancy bag. H. J. Dudley. Des. 63,254; Nov. 13.
Farrowing pen. W. C. Nutt. 1,473,970; Nov. 13.
Fastener device. A. Robinson. 1,473,876; Nov. 13.
Fastening device. F. Strauss. 1,473,942; Nov. 13.
Fastening for loss preventing devices. O. N. Wimberly. 1,474,308; Nov. 13.
Fibrous material, Roller for drawing mechanisms for. R. Cottam, T. Sefton, and J. E. Lees. 1,474,020–3; Nov. 13.
Files, Corn. D. H. Green. 1,473,933; Nov. 13.
Filing system. J. M. Leahy. 1,474,196; Nov. 13.
Finger ring. N. E. Atkinson. 1,473,717; Nov. 13.
Fire extinguisher. P. G. MacGregor. 1,474,204; Nov. 13.
Fire kindler. J. H. Douglas. 1,473,837; Nov. 13.
Fire pot. J. B. Koehler. 1,473,772; Nov. 13.
Fish-trimming machine. D. McPhee. 1,473,961; Nov. 13.
Fixture support and loom fastener, Combined. E. W. Moon. 1,473,794; Nov. 13.
Flier. C. Prew. 1,474,287; Nov. 13.
Floor or wall covering. L. J. D. Healy. 1,473,767; Nov. 13.
Flue, Ventilating. C. H. Dahmen. 1,474,072; Nov. 13.
Frame: *See*—
Bag frame.
Clothes-wringer frame.
Embroidery frame.
Truck side frame.
Frame and interlocking joint, Metal. H. M. Gorsline. 1,473,817; Nov. 13.
Fuel, Complete gasification of solid. C. W. Andrews. 1,474,012; Nov. 13.
Fuel-elevating device. H. B. Grant. 1,473,761; Nov. 13.
Fur garments, Fastener for. G. Sachnoff. 1,473,710; Nov. 13.
Furnace: *See*—
Heating furnace.
Metallurgical furnace.
Furnace. E. Berthelon. 1,473,665; Nov. 13.
Furnace. C. N. Morrison. 1,473,831; Nov. 13.
Furnace construction. P. H. McKenzie. 1,473,731; Nov. 13.
Furnacing process. C. S. Fogh. 1,473,722; Nov. 13.
Fuse cartridge. F. A. Feldkamp. 1,474,146; Nov. 13.
Fuse, Electric. G. R. Folds. 1,473,615; Nov. 13.
Fuse for the production of heat. L. Risk. 1,473,874; Nov. 13.
Fuse, Refillable electric. R. E. Middagh and C. L. Anderson. 1,474,206; Nov. 13.
Fuse, Renewable electric. R. G. Sands. 1,473,646–7; Nov. 13.
Game apparatus. G. C. Easton. 1,473,954; Nov. 13.
Game board. A. L. Roberts. 1,474,080; Nov. 13.
Garment, Body. G. Killfeather. 1,473,789; Nov. 13.
Garment pocket. J. R. Moffatt. 1,473,636; Nov. 13.
Garter or sock suspender. F. Weinberg. 1,474,220; Nov. 13.
Gas bleeder. F. H. Willcox. 1,473,716; Nov. 13.
Gases, Recording analyzing apparatus for automatic analysis of. S. A. S. Krogh and P. H. Pedersen. 1,474,097; Nov. 13.
Gate: *See*—
Railway safety gate.
Gauge: *See*—
Tire-pressure gauge.
Water gauge.
Gauge. R. V. R. Reynolds. 1,474,209; Nov. 13.
Gear follower block, Draft-. D. S. Barrows. 1,474,225; Nov. 13.
Gear for snowplows, Driving. G. D. and H. T. Toy. 1,473,889; Nov. 13.
Gear, Split. J. C. Jones and A. C. Kreutzer. 1,473,706; Nov. 13.
Gears, Method of and means for testing. C. L. Trosky and C. C. Marsh. 1,473,748; Nov. 13.
Glare-shield device. J. E. Roy. 1,473,878; Nov. 13.
Glass-banding machine. J. B. Greer. 1,473,762; Nov. 13.
Glass hall illuminating bowl. E. A. Gillinder. Des. 63,256; Nov. 13.
Glass, Method and apparatus for forming. R. M. Corl. 1,474,019; Nov. 13.
Glass mold. J. G. Moritz. 1,474,329; Nov. 13.
Glassware, Leer for annealing. D. Stenhouse. 1,474,058; Nov. 13.
Glazing machine. H. N. Halversen. 1,473,675; Nov. 13.
Glove, Fielder's. H. Goldsmith. 1,473,849; Nov. 13.
Glue, Water-resistant. W. A. Drushel. 1,473,987; Nov. 13.
Governor, Automatic throttle. H. A. Lewis. 1,473,823; Nov. 13.
Grain-heading machine. C. C. Forbes. 1,474,251; Nov. 13.
Granary, Collapsible. A. Gardon. 1,473,845; Nov. 13.
Grate structure. J. G. Gibson, jr. 1,473,846; Nov. 13.
Grease carton. O. A. Rice. 1,474,118; Nov. 13.
Grease cups or plugs, Anchor for. L. H. Stroud. 1,474,300; Nov. 13.
Grinding machine. P. De Mattia. 1,474,321; Nov. 13.
Gun carriages, Trail for. B. P. Joyce. 1,473,628; Nov. 13.
Gun, Walking-stick machine. H. Renard. 1,474,292; Nov. 13.
Hair-curling device. J. Krysztofiak. 1,474,334; Nov. 13.
Hair-waving apparatus. O. Schaumberg. 1,473,977; Nov. 13.
Hand, Artificial. H. Therrien. 1,474,301; Nov. 13.
Handle. S. Chakov. 1,473,922; Nov. 13.
Hanger: *See*—
Case hanger.
Driving-box-shoe hanger.
Lamp hanger.
Pipe hanger.
Harrow, Roller. G. G. Schroeder. 1,474,294; Nov. 13.
Hatch cover and means for supporting and locking the same. E. A. Sweeley. 1,473,655; Nov. 13.
Hay loader. H. J. Fersdahl. 1,473,614; Nov. 13.
Heater: *See*—
Electric heater.
Water heater.
Heating and ventilating equipment. J. A. Wolfe. 1,473,896; Nov. 13.
Heating furnace. J. Helmkee. 1,474,032; Nov. 13.
Heating unit, Electrical. S. I. Phelps. 1,473,866; Nov. 13.
Hinge for change receivers. J. H. Kemper, P. M. Hoffmann, and J. M. Teetor. 1,473,771; Nov. 13.
Hook: *See*—
Butt hook.
Hook. E. S. Soule. 1,473,885; Nov. 13.
Hopple. E. Moore and S. F. Welsh. 1,473,637; Nov. 13.
Horn-operating mechanism. D. Cairella. 1,474,188; Nov. 13.
Horseshoe. A. D. Cartwright. 1,474,018; Nov. 13.
Hose. G. B. Mellus. 1,474,328; Nov. 13.
Hose clamp. W. M. Davenport. 1,473,609; Nov. 13.
Hose clamp. H. G. Wessel. 1,473,715; Nov. 13.
Hosiery. J. J. Sullivan. 1,473,686; Nov. 13.
Humidifier. C. E. Hendrix. 1,473,676; Nov. 13.
Humidor. J. Gerstle. 1,474,254; Nov. 13.
Hydraulic testing apparatus, Adjustment attachment for. F. P. Mills. 1,473,963; Nov. 13.
Images and apparatus therefor, Projecting. G. H. S. and H. N. D. McNair and C. T. Siebs. 1,473,913; Nov. 13.
Inclosure, Demountable side. L. H. Clark. 1,474,316; Nov. 13.
Indicator: *See*—
Station indicator.
Indigos, Making brominated. C. J. Strosacker and H. J. Rupright. 1,473,887; Nov. 13.
Induction coil. A. A. Kent. 1,474,152; Nov. 13.
Ink cartridge. B. B. Goldsmith. 1,473,700; Nov. 13.
Inking pad. A. B. Carroll. 1,474,143; Nov. 13.
Inkstand for soluble ink. B. B. Goldsmith. 1,473,701; Nov. 13.
Inner tube. J. R. Meredith. 1,474,085; Nov. 13.
Innersole. M. Brown. 1,473,695; Nov. 13.
Insulator. W. T. Goddard. 1,474,256; Nov. 13.
Internal-combustion engine. R. M. Hird. 1,473,770; Nov. 13.
Internal-combustion engine. H. R. Ricardo. 1,474,003; Nov. 13.
Internal-combustion engine. G. Wagenlander. 1,474,217; Nov. 13.
Internal-combustion engine, Rotary. J. H. Wagenhorst. 1,473,656; Nov. 13.
Ironing machine. W. S. Merick. 1,473,997; Nov. 13.
Jack: *See*—
Auto jack.
Jar-cap wrench. J. S. Buckwalter. 1,474,067; Nov. 13.
Joint: *See*—
Pipe joint.
Speedometer swivel joint.
Joint bar. C. D. Young. 1,473,753; Nov. 13.
Key holder. J. Carmel. 1,474,315; Nov. 13.
Keyless lock. J. M. Kaye. 1,474,042; Nov. 13.

Kiln, Dry. R. E. Abbott and H. E. Beyster. 1,473,755; Nov. 13.
Kiln, Tunnel. G. W. Booth. 1,474,063; Nov. 13.
Kitchen cabinet. R. Hoffman. 1,473,703; Nov. 13.
Ladder bracket. L. P. Reimann. 1,474,289; Nov. 13.
Lamp hanger. A. J. Thompson. 1,473,713; Nov. 13.
Lamp or other shade. F. Roettges. Des. 63,270; Nov. 13.
Lamp, Perfume burning. N. L. Normandi. Des. 63,266; Nov. 13.
Lamp socket. R. B. Benjamin. 1,474,015; Nov. 13.
Lamp standard. F. Yokel. Des. 63,274; Nov. 13.
Lamp with brake-controlled supporting arms for incandescent lamps, Electric table. G. Weber. 1,474,304; Nov. 13.
Latch, Box. J. Pinten. 1,473,869; Nov. 13.
Latch, Door. W. S. Hamm. 1,474,028; Nov. 13.
Latch, Windshield. G. E. Grimm. 1,474,076; Nov. 13.
Leaks in blast-furnace-cooling appliances, Apparatus for detecting. J. S. Crowther, jr. 1,474,071; Nov. 13.
Leer. G. W. Batchell. 1,473,897; Nov. 13.
Lens-edging machine. R. Schumann. 1,474,171; Nov. 13.
Letter box. A. S. Macdonald. Des. 63,261; Nov. 13.
Lighting fixture. P. Mohrmann. Des. 63,263; Nov. 13.
Lighting-fixture top piece. J. Ribaysen. Des. 63,269; Nov. 13.
Lighting fixtures or lamps, Finial for. A. Dvorak. Des. 63,255; Nov. 13.
Liquids, Apparatus for applying. L. Simmons. 1,473,979; Nov. 13.
Liquids from great depths, Elevating. F. I. Nevill. 1,473,967; Nov. 13.
Liquors, Purification of waste. F. W. Wagner. 1,473,750; Nov. 13.
Loading and unloading machines, Feeder for. C. O. Brown and H. B. Walker. 1,473,779; Nov. 13.
Lock: *See*—
Auto lock.
Automobile steering-wheel lock.
Keyless lock.
Turnbuckle lock.
Water-meter lock.
Locking device. C. S. Brown. 1,473,986; Nov. 13.
Locomotive. W. W. Sloane. 1,474,175; Nov. 13.
Locomotives, Water-purifying system for. F. Wagner. 1,474,218; Nov. 13.
Machine tool. G. E. Hallenbeck. 1,473,624; Nov. 13.
Mail-bag catcher and deliverer. H. F. Anderson. 1,474,101; Nov. 13.
Mail catcher. J. J. Fuehrer. 1,474,074; Nov. 13.
Mangle-heating device. A. L. Guesmer. 1,473,764; Nov. 13.
Mask, Gas. R. P. Mase. 1,474,205; Nov. 13.
Measuring granular or powdered material, Apparatus for. J. E. Lea. 1,473,633; Nov. 13.
Measuring instrument, Electric. W. M. Scott. 1,474,172; Nov. 13.
Meat holder. F. C. Shown. 1,474,296; Nov. 13.
Mechanical movement. J. Hettrich. 1,473,907; Nov. 13.
Medicinal preparation. H. J. Brown. 1,474,140; Nov. 13.
Mesityl oxide, etc., Making. A. Hoffman. 1,474,035; Nov. 13.
Metal box, Collapsible. R. S. Reynolds. 1,474,088; Nov. 13.
Metal-shaping machine. F. E. Brown. 1,474,066; Nov. 13.
Metal strip and apparatus therefor, Handling hot-. F. B. Crosby. 1,474,319; Nov. 13.
Metal wheel. G. G. Barry. 1,473,694; Nov. 13.
Metal wheel. J. H. Wagenhorst. 1,474,183; Nov. 13.
Metallurgical furnace. J. R. Millward. 1,474,157; Nov. 13.
Meter: *See*—
Telephone meter.
Meter. R. F. Schuchardt. Re15,724; Nov. 13.
Meters and the like, Yieldable joint for water. F. Lambert. 1,473,910; Nov. 13.
Milk-can closure. J. H. Briehl. 1,473,951; Nov. 13.
Mill: *See*—
Rolling mill.
Spinning mill.
Mining apparatus. C. W. Wyman. 1,474,311; Nov. 13.
Mining machine. E. C. Morgan. 1,474,000; Nov. 13.
Mining-machine anchoring device. N. D. Levin. 1,473,729; Nov. 13.
Minnow trap. G. H. Prime. 1,474,087; Nov. 13.
Miter clamp. C. Robertson. 1,474,119; Nov. 13.
Mixer: *See*—
Cement mixer.
Modulation, Means for and method of. L. Espenschied. 1,473,674; Nov. 13.
Mold: *See*—
Glass mold.
Mold. W. H. Kempton. 1,473,857; Nov. 13.
Molds, Coating. A. D. Straw. 1,474,009; Nov. 13.
Mop, Floor. A. J. Hanke. 1,474,031; Nov. 13.
Motor: *See*—
Current motor.
Turbine motor.
Motor-cooling system. C. P. Byrnes. 1,473,668; Nov. 13.
Motor-cycle attachment. H. G. Eyre and C. H. Crites. 1,473,956; Nov. 13.
Motor switch, Electric-. M. H. Spielman and A. R. Goldrick. 1,474,180; Nov. 13.
Motors, Liquid fuel for. A. A. Backhaus. 1,474,135; Nov. 13.
Mowing machine. C. H. Pelton and G. C. Rhoderick. 1,473,863; Nov. 13.
Muzzle, Dog. J. Veres. 1,474,303; Nov. 13.
Necktie. I. R. Patz. Des. 63,267; Nov. 13.
Nitrogen, Fixing. F. J. Metzger. 1,473,826; Nov. 13.
Noninductive interference system. C. F. Scott. 1,473,881; Nov. 13.
Nozzle, Disinfecting. H. Falletta. 1,473,840; Nov. 13.
Oil burner, Fuel-. R. W. Wiederwax. 1,473,657; Nov. 13.
Oil burner, Mechanical vaporizing. J. W. and E. A. Tygard. 1,473,891; Nov. 13.
Oils, Treating. F. W. Bayard. 1,474,136; Nov. 13.
Oiler. L. S. Harrell. 1,473,852; Nov. 13.
Outlet-box construction. N. T. Clements. 1,473,812; Nov. 13.
Package. C. C. Harris. 1,474,113; Nov. 13.
Package-sealing machine. H. L. Johnson. 1,473,992; Nov. 13.
Packing cases, boxes, bales, and the like, Apparatus for securing metallic bands around. A. C. Payne and R. Eyre. 1,474,207; Nov. 13.
Pad: *See*—
Inking pad.
Pedal pad.
Paper-bag holder. A. D. Peterson. 1,473,640; Nov. 13.
Paper bottle, Sanitary nonrefilling. A. Braunstein. 1,474,228; Nov. 13.
Paper clip. L. H. Ashmore. 1,474,102; Nov. 13.
Paper-container-making machine, Automatic. A. Braunstein. 1,474,229; Nov. 13.
Pattern-grading machine. F. W. Potter. 1,473,738; Nov. 13.
Peat, Dry distilling and carbonizing crude. O. Pohl. 1,473,641; Nov. 13.
Pedal pad. B. De Mattia. 1,474,320; Nov. 13.
Pendulet. G. Ainsworth. Des. 63,250; Nov. 13.
Pendulet. G. E. McFadden. Des. 63,262; Nov. 13.
Petroleum, Distilling and cracking. J. L. Gray. 1,474,147; Nov. 13.
Phonographs, Alarm-clock release for. L. Crane. 1,474,240; Nov. 13.
Photographic-printing machine. E. Sankey. 1,473,740; Nov. 13.
Piano actions, Hammer and damper springs for. E. E. Buser. 1,473,608; Nov. 13.
Picture illusion device, Changing-. H. M. Russell. 1,473,939; Nov. 13.
Picture transmission. A. Sinding-Larsen. 1,473,882; Nov. 13.
Pin: *See*—
Safety pin.
Pin puller. H. W. Morrow. 1,474,159; Nov. 13.
Pipe-bending machine. J. Brogden. 1,473,756; Nov. 13.
Pipe hanger. C. H. Voellmecke. 1,474,059; Nov. 13.
Pipe joint. W. Krause. 1,474,155; Nov. 13.
Pipe joint, Quick-detachable. A. P. Lewis. 1,474,270; Nov. 13.
Piston and piston ring and making the same. B. S. Cowles. 1,474,024; Nov. 13.
Piston and pump-piston packing-adjusting mechanism, Oil-well slush-pump. W. F. McMahon. 1,474,201; Nov. 13.
Piston, Revolving. T. Kallmeyer. 1,474,325; Nov. 13.
Plaster-receiving board. H. A. Cumfer. 1,474,145; Nov. 13.
Plastic material, Apparatus for conveying. M. R. Johnson. 1,473,958; Nov. 13.
Plastic material, Extracting moisture from. J. Heess. 1,474,259; Nov. 13.
Plates or removable bridges, Attachment for partial. C. C. Baker. 1,473,661; Nov. 13.
Platform, Adjustable. J. Ferrero. 1,474,249; Nov. 13.
Pliers and chain tightener, Combined. J. L. Hall. 1,473,851; Nov. 13.
Plow. P. A. Reinhold. 1,474,291; Nov. 13.
Plow, Motor. F. Kec. 1,473,630; Nov. 13.
Plug-locking device. G. S. Collins. 1,474,239; Nov. 13.
Ply-wood wheel. W. L. Carnegie. 1,473,669; Nov. 13.
Pneumatic tube, Reenforced ribbed. L. W. Hottel. 1,473,768; Nov. 13.
Polish composition. T. Bailey. 1,473,947; Nov. 13.
Polish for enameled surfaces. W. H. Allen. 1,474,133; Nov. 13.
Portable drier. F. H. Cummer. 1,473,697; Nov. 13.
Pot: *See*—
Fire pot.
Power feed, Automatic throw-out for. D. C. Klausmeyer. 1,474,339; Nov. 13.
Power head. P. A. Myers. 1,473,861; Nov. 13.
Power-transmission device. B. F. Seymour. 1,474,095; Nov. 13.
Press: *See*—
Box-cover press.
Printing press.
Tie press.
Pressure regulator. J. S. Reynolds. 1,474,164; Nov. 13.
Printing device, Late-news-. E. P. Sheldon. 1,473,650; Nov. 13.
Printing machine, Web-. J. D. Caplinger. 1,474,142; Nov. 13.
Printing press, Platen. A. Schlesinger. 1,473,649; Nov. 13.
Propeller, Boat. J. D. Park, jr. 1,473,832; Nov. 13.
Puller: *See*—
Pin puller.
Sleeve puller.
Valve puller.
Pump. J. H. Collins. 1,474,317; Nov. 13.
Pump. A. J. Hein. 1,474,260; Nov. 13.
Pump. L. F. Pontbriand. 1,473,737; Nov. 13.

Pump, Centrifugal. W. C. Dowd. 1,473,904; Nov. 13.
Pump, Diaphragm. E. B. Cushman. 1,473,924; Nov. 13.
Pump pipe lift. R. H. Gibson. 1,473,724; Nov. 13.
Pump with self-centering runner, Centrifugal. W. R., H. J., and E. M. Woock. 1,473,802; Nov. 13.
Pumping apparatus. Adjuster for well. F. I. Nevill. 1,473,968; Nov. 13.
Rack: *See*—
Bread rack. Card rack.
Radiator. O. H. Koelker. 1,474,082; Nov. 13.
Radiator, Gas-heating. A. Garbarini. 1,473,844; Nov. 13.
Radiator-supporting stand. R. J. Statham. 1,474,212; Nov. 13.
Radiators, Forming. D. N. Crosthwait, sr. 1,473,670; Nov. 13.
Radio boxes, Peep opening for wireless-telegraph. H. C. Stevens. 1,473,941; Nov. 13.
Radiotelegraphy. E. R. Beal. 1,473,719; Nov. 13.
Rail brace. L. H. Mayville. 1,474,278; Nov. 13.
Rail or form, Road. H. B. Loxterman. 1,473,730; Nov. 13.
Railway safety gate. C. Enache. 1,473,905; Nov. 13.
Railway switches and the like, Protective heating system for. E. R. Packer. 1,474,161; Nov. 13.
Railway tie, Metallic. C. C. Steel. 1,474,298; Nov. 13.
Railway tracks, Guard-rail fixture for. T. Maney. 1,474,276; Nov. 13.
Rainproof garment. C. A. Place. 1,473,916; Nov. 13.
Rat trap. C. Sorensen. 1,474,096; Nov. 13.
Razor-blade holder, Safety-. D. J. Dalton and W. A. Blondi. 1,474,107; Nov. 13.
Reaming tool. T. Leonard. 1,474,197; Nov. 13.
Receptacle. V. Durand, jr. 1,473,814; Nov. 13.
Recoil check. G. L. Moore. 1,473,638; Nov. 13.
Rectifier. E. W. Breisch. 1,473,807; Nov. 13.
Recuperator. W. G. Bergman. 1,474,016; Nov. 13.
Reed article and producing the same. M. B. Lloyd. 1,473,708; Nov. 13.
Reel. J. A. Brogan. 1,473,607; Nov. 13.
Reel carrier. J. A. Holmquist. 1,473,678; Nov. 13.
Reenforcing means. C. Moore. 1,473,830; Nov. 13.
Refractory article and making same. W. A. Harty. 1,473,853; Nov. 13.
Regulator: *See*—
Pressure regulator.
Resilient wheel. W. A. Witten. 1,473,918; Nov. 13.
Revolving screen. G. M. Stedman. 1,473,745–6; Nov. 13.
Rheostat. L. C. Martin. 1,473,915; Nov. 13.
Rheostat. A. E. Waller. 1,474,060; Nov. 13.
Rim, Separable. J. M. Dirienzo. 1,474,244; Nov. 13.
Ring: *See*—
Finger ring.
Riveting devices or hammers, Tool for power-operated. V. L. Emerson. 1,474,025; Nov. 13.
Road or pavement. J. B. Page. 1,473,639; Nov. 13.
Rolling mill. F. Steinecke. 1,474,124; Nov. 13.
Rolling-mill apparatus. F. Mayer. 1,474,055; Nov. 13.
Roofing element. H. Abraham. 1,473,919; Nov. 13.
Rotary cutter. S. Di Felippo. 1,473,698; Nov. 13.
Ruling machines, Perforating attachment for. W. G. Knights 1,473,632; Nov. 13.
Safety pin. F. M. Wagner. 1,474,127; Nov. 13.
Saw guide, Band-. G. W. Gillaspy. 1,474,255; Nov. 13.
Saw, Hack. J. A. Adell and A. H. Starrett. 1,473,803; Nov. 13.
Saw, Hack. W. H. Royle. 1,474,210; Nov. 13.
Sawing blades, Device for driving stone and marble. E. Stocq. 1,474,299; Nov. 13.
Sawing machine, Button-blank shell-. H. H. Knott, C. J. Jungbluth, and E. B. Hammer. 1,474,044; Nov. 13.
Scales, Lever system for. A. A. Caille. 1,473,696; Nov. 13.
Scarfing machine. C. B. Norris. 1,473,733; Nov. 13.
Scraper. G. D. and H. T. Toy. 1,473,890; Nov. 13.
Screen: *See*—
Revolving screen. Well screen.
Screw bolts, etc., Manufacture of nuts for. F. D. Archibald. 1,473,777; Nov. 13.
Screw machine, Automatic. W. G. Aldeen. 1,474,132; Nov. 13.
Scrubbing machine. H. F. Barry. 1,473,778; Nov. 13.
Seat: *See*—
Automobile seat.
Seat, chair, and the like, Theater and like. W. G. Bass. 1,474,226; Nov. 13.
Seed drill. W. C. Warren. 1,474,184; Nov. 13.
Separator: *See*—
Tin-sheet separator.
Separator. R. M. Ostermann. 1,474,056; Nov. 13.
Sewed articles, Seam for. S. G. Tate. 1,473,687; Nov. 13.
Sewing machine. W. F. Lautenschlager. 1,474,269; Nov. 13.
Sewing machine guide. G. S. Gatchell. 1,473,617; Nov. 13.
Sewing machine, Lock-stitch. F. J. T. and H. C. Bell. 1,474,138; Nov. 13.
Sewing machines, Trimming device for. A. H. DeVoe. 1,473,611; Nov. 13.
Shaft, Means for detachably connecting an operating member to a power driven. B. W. Klein. 1,474,153; Nov. 13.
Shale, bituminous coal, and other materials, Retort for the distillation of. C. M. Garland. 1,473,616; Nov. 13.
Sharpening of augers or bits, Means for facilitating. A. W. McCurdy. 1,474,051; Nov. 13.
Shaving kit. T. J. Stephens. 1,473,653; Nov. 13.
Shock absorber. S. J. Vesely. 1,474,125–6; Nov. 13.
Shoe clasp. T. Russell. 1,474,168; Nov. 13.
Shoe, Cuboid-support. W. C. Burns. 1,473,952; Nov. 13.
Shoe racks, Truck attachment for. F. H. Link. 1,473,912; Nov. 13.
Shoes, Machine for operating on. E. E. Winkley. 1,473,660; Nov. 13.
Shovel. J. W. Svalgaard. 1,474,213; Nov. 13.
Shuttle, Tatting. H. E. Kwapil. 1,473,790; Nov. 13.
Sign, Road. M. Isaacs. Des. 63,260; Nov. 13.
Signal: *See*—
Automobile signal.
Signaling system, High-frequency. J. Bethenod. 1,473,921; Nov. 13.
Skirt bands and the like, Stiffener for. L. E. Fox. 1,474,190; Nov. 13.
Slack adjuster. W. H. Sauvage. 1,474,090–3; Nov. 13.
Sleeve puller. E. B. Cantrell and G. E. Miller. 1,473,811; Nov. 13.
Slicing machine. W. B. Wolff. 1,473,658–9; Nov. 13.
Slivers and the like, Apparatus for drawing and twisting. T. Zachariadis. 1,474,131; Nov. 13.
Smelting and furnace for same, Electric. J. C. Dow. 1,473,784; Nov. 13.
Smoker's article. R. E. Raney. 1,473,937; Nov. 13.
Soap shaker. H. B. Douglas. 1,473,783; Nov. 13.
Soap sticks, Holder for shaving-. F. Grant. 1,473,760; Nov. 13.
Soot blower. D. J. Dorsey. 1,473,757; Nov. 13.
Sorting and delivering articles, Mechanism for. A. Bates. 1,473,604; Nov. 13.
Sound recording method. E. E. Ries. 1,473,976; Nov. 13.
Speed transmission, Selective-type change-. A. G. Herreshoff. 1,474,033; Nov. 13.
Speedometer swivel joint. H. R. Stoughton. 1,473,886; Nov. 13.
Speedometer with the power shaft of a motor vehicle, Mechanism for connecting the. J. A. Goodsell and S. A. Dovey. 1,473,988; Nov. 13.
Spindle bolt, Adjustable. W. F. Pridemore. 1,474,057; Nov. 13.
Spinning and twisting machines, Device for operating the spindles of. H. J. Laroche and L. Montiguy. 1,473,820; Nov. 13.
Spinning frames, Stop-motion mechanism for. J. H. Jones. 1,474,040; Nov. 13.
Spinning mill. T. Zachariadis. 1,474,130; Nov. 13.
Spoon holder or similar article. M. Relkin. Des. 63,268; Nov. 13.
Sprayer, Dust. W. W. Gore. 1,473,785–7; Nov. 13.
Spring-assembling machine, Cushion-. J. T. Holtfoth. 1,473,989; Nov. 13.
Sprinkler. W. H. Baker. 1,474,061; Nov. 13.
Squeezer. T. E. Day. 1,473,610; Nov. 13.
Stairway elevator. C. C. Crispen. 1,473,813; Nov. 13.
Stamping apparatus, Measurement-. H. Thun. 1,474,098; Nov. 13.
Starch, Manufacture of modified. L. Weiss. 1,474,129; Nov. 13.
Station indicator. J. C. Wood. 1,473,752; Nov. 13.
Steel or metal into ingot or like molds, Pouring or teeming of molten. H. H. Hosack. 1,474,261; Nov. 13.
Steering-gear support. E. H. Belden. 1,474,103; Nov. 13.
Steering mechanism for vehicles. C. H. Young. 1,473,691; Nov. 13.
Steering wheel and forming the same. G. D. Rose. 1,474,167; Nov. 13.
Step, Folding. S. Koeberlin. 1,473,858; Nov. 13.
Step, Safety-appliance. J. H. Harrison and M. Walker. 1,474,257; Nov. 13.
Stepladder. C. W. Krathwohl. 1,474,266; Nov. 13.
Stepladder and scaffold, Combined. F. Folliard. 1,474,250; Nov. 13.
Stocking. R. Schletter. Des. 63,272; Nov. 13.
Stopcocks, Safety lock for. E. W. Leech, jr. 1,473,774–5; Nov. 13.
Store for a building having limited floor space, Self-service. J. H. Carroll. 1,474,106; Nov. 13.
Store, Serve-self motor. E. J. Greene. 1,473,850; Nov. 13.
Storage battery. J. M. Allen. 1,474,313; Nov. 13.
Stove. I. T. Black. 1,473,666; Nov. 13.
Stove, Cook. R. Hoffman. 1,473,704; Nov. 13.
Stove, Oil. R. Hoffman. 1,473,819; Nov. 13.
Stovepipe anchor. G. J. Lambert. 1,473,728; Nov. 13.
Stropper, Razor-blade. G. H. Rein. 1,474,290; Nov. 13.
Structural element. L. T. Frederick. 1,473,842; Nov. 13.
Stylus-bar mounting. I. Lauter and F. G. Hoppe. 1,473,707; Nov. 13.
Sucker-rod elevator and wrench. B. Rose. 1,473,684; Nov. 13.
Sugar-dispensing receptacle. W. A. McIntyre. 1,474,275; Nov. 13.
Sulphur, Producing elemental. C. S. Fogh. 1,473,723; Nov. 13.
Superheater. B. N. Broido. 1,474,065; Nov. 13.
Surfaces, Composition for cleaning enameled. M. M. Goldstein. 1,473,620; Nov. 13.

Suture instrument. M. Donelson. 1,474,245; Nov. 13.
Switch: *See*—
Electric switch. Time switch.
Motor switch. Tumbler switch.
Switch for skeet heads, Throw-off or circuit-breaking. T. F. Johnson, jr. 1,473,960; Nov. 13.
Switch terminal. H. D. James. 1,473,856; Nov. 13.
Switches, rheostats, and like electric devices, Lever arm for. J. Driessen. 1,473,838; Nov. 13.
Table. W. Reid. 1,473,975; Nov. 13.
Table and chair structure. W. S. Phillips. 1,473,736; Nov. 13.
Tag, Price. F. Kohnle. 1,473,773; Nov. 13.
Talking-machine records, Cabinet for. E. Blaise. 1,474,017; Nov. 13.
Talking machines, Winding indicator for. L. A. Freedman. 1,473,929–30; Nov. 13.
Tank. J. D. Pyle. 1,473,974; Nov. 13.
Tank clamp. G. J. Dennis. 1,474,243; Nov. 13.
Tapestry, Printed. B. A. Stroock. 1,474,182; Nov. 13.
Tar from gases, Apparatus for separating. L. Bradley. 1,473,806; Nov. 13.
Taximeter recording device. J. Gluck. 1,473,816; Nov. 13.
Teeth, Holder for artificial sets of. E. J. Elsas. 1,473,673; Nov. 13.
Telephone-exchange system. J. Davidson, jr. 1,473,671; Nov. 13.
Telephone-exchange system, Machine-switching. R. Stokely. 1,474,008; Nov. 13.
Telephone meter. E. H. Martin. 1,474,053; Nov. 13.
Telephone repeater circuits. E. D. Johnson. 1,474,038; Nov. 13.
Telephone transmitters and the like, Sanitary attachment for. C. P. Abbott. 1,474,186; Nov. 13.
Telephones, Auxiliary mouthpiece for. O. W. Aagaard. 1,474,100; Nov. 13.
Thermometer. E. S. Payment. 1,474,001; Nov. 13.
Thimble. E. Dart. 1,473,953; Nov. 13.
Threading die, Automatic. O. A. Smith and B. Rindfleisch. 1,474,179; Nov. 13.
Tie: *See*—
Railway tie. Wall tie.
Tie press. A. A. Banks. 1,473,662; Nov. 13.
Tile, Building. Q. Monier. Des. 63,264; Nov. 13
Tiles, Air control for drain. J. Perkins. 1,474,285; Nov. 13.
Time switch. J. G. H. Liebel and E. S. Flarsheim. 1,473,679; Nov. 13.
Time switches, Retarding device for. W. H. Petersén. 1,473,971; Nov. 13.
Tin-sheet separator. J. Evans. 1,473,927; Nov. 13.
Tire. E. H. Broadwell. Des. 63,251; Nov. 13.
Tire attachment. C. C. Marble. 1,473,680; Nov. 13.
Tire-carrying rims to road vehicles, etc., Device for locking demountable. E. A. Bradshaw, C. W. S. Black, and A. P. Nicholls. 1,474,139; Nov. 13.
Tire casings, Process and apparatus for manufacturing. E. Hopkinson and J. P. Coe. 1,474,149; Nov. 13.
Tire chain. L. B. Servis, H. P. Randall, and S Q Shannon. 1,473,797; Nov. 13.
Tire-holding device. C. E. Strifler. 1,473,943; Nov. 13.
Tire mounting. W. T. Gulledge. 1,473,623; Nov. 13.
Tire-pressure gauge, Automatic. R. L. Whipple, D. P. Rockwell, and C. C. Featherstone. 1,474,099; Nov. 13.
Tire tread. E. A. Hecht. Des. 63,257–8; Nov. 13.
Tire tread, Vehicle. O. D. Hollenbeck. Des. 63,259; Nov. 13.
Tire tube, Self-sealing. H. H. Allyn. 1,474,011; Nov. 13.
Tire valve. F. E. Nugent. 1,474,160; Nov. 13.
Tires, Valve protecting and operating device for pneumatic. W. R. Royer. 1,473,938; Nov. 13.
Toilet accessory. D. B. Shiffer. 1,474,295; Nov. 13.
Tool. H. H. Kuhn. 1,474,267; Nov. 13.
Tool, Combination. S. Rome. 1,473,877; Nov. 13.
Tools, Rotating mechanism for percussive. E. G. Gartin. 1,474,338; Nov. 13.
Toothbrush. C. F. Healy. 1,473,766; Nov. 13.
Torpedo. W. E. Follin. 1,474,027; Nov. 13.
Toy fishing game. J. M. S. Anderson. 1,473,603; Nov. 13.
Track switches and signals, Safety device for. A. Fisher. 1,473,841; Nov. 13.
Tractor, Motor logging. C. Noble. 1,474,282; Nov. 13.
Transmission and bearing, Resilient. B. F. Seymour. 1,474,121–2; Nov. 13.
Transmission mechanism. J. E. Minner. 1,474,279; Nov. 13.
Trap: *See*—
Animal trap. Rat trap.
Minnow trap.
Tray, Hot-food. C. Stirn. 1,473,799; Nov. 13.
Trolley base. L. F. Burnham. 1,473,809; Nov. 13.
Trolley sheave. J. J. Crapper. 1,474,241; Nov. 13.
Truck, Car. H. C. Priebe. 1,474,002; Nov. 13.
Truck, Four-wheeled. S. Loe. 1,474,198; Nov. 13.
Truck side frame. W. A. Lucas. 1,474,272; Nov. 13.
Truck side frame. C. H. Williamson. 1,474,306–7; Nov. 13.
Trucks, Variable-speed winch for motor. A. F. Masury and R. S. Bolger. 1,474,054; Nov. 13.
Tube: *See*—
Inner tube. Tire tube.
Pneumatic tube.
Tube and closure. H. G. Gansz. 1,474,253; Nov. 13.
Tumbler switch. H. G. Baxter. 1,473,805; Nov. 13.
Turbine motor, Duplex. W. E. Conness. 1,474,318; Nov. 13.
Turbine, Serial-flow. O. H. Wolner. 1,473,690; Nov. 13.
Turnbuckle lock. R. A. Hoffmann. 1,473,677; Nov. 13.
Tuyère. H. F. Hildebrandt. 1,473,934; Nov. 13.
Typewriters, Control mechanism for. O. A. Hokanson. 1,473,705; Nov. 13.
Typewriting machine. E. E. Barney. 1,473,920; Nov. 13.
Typewriting machine. J. A. B. Smith. 1,474,178; Nov. 13.
Typewriting machines, Ribbon spool for. C. Gabrielson. 1,474,111; Nov. 13.
Umbrella, Folding. M. H. Hartzell. 1,473,906; Nov. 13.
Umbrella identifier. H. Sumner. 1,473,654; Nov. 13.
Underreamer. T. J. McCormick. 1,474,274; Nov. 13.
Valve. E. J. B. Gorman. 1,473,621; Nov. 13.
Valve-adjusting mechanism. W. F. Harrington. 1,474,078; Nov. 13.
Valve and strainer, Combined foot. A. W. Burks. 1,473,667; Nov. 13.
Valve device, Brake-. C. C. Farmer. 1,473,759; Nov. 13.
Valve device, Feed-. C. C. Farmer. 1,473,758; Nov. 13.
Valve diaphragm, Flexible. W. T. Mixsell. 1,473,998; Nov. 13.
Valve, Flushing. J. P. Meyer. 1,474,117; Nov. 13.
Valve for automatic train-control apparatus, Manually-operable. D. J. Bissell, jr. 1,474,187; Nov. 13.
Valve, Gate. J. W. Flower. 1,474,026; Nov. 13.
Valve-operating mechanism. W. P. Loudon. 1,473,634; Nov. 13.
Valve, Poppet. E. H. Sherbondy. 1,473,711; Nov. 13.
Valve puller. S. S. Burman. 1,474,234; Nov. 13.
Valve, Relief. F. A. Gessler and R. B. Mitchell. 1,474,192; Nov. 13.
Valve stem and guide lubricator. W. Edson. 1,473,839; Nov. 13.
Valve, Thermionic. F. Reynolds. 1,474,293; Nov. 13.
Valve, Water-closet. H. A. Rath. 1,474,288; Nov. 13.
Vault or safe locking mechanism. B. A. Boyer and A. Krofft. 1,473,985; Nov. 13.
Vegetable cleaner and separator. G. J. Olney. 1,474,284; Nov. 13.
Vegetable substances and the resulting product, Preparation of a product for the maceration of. D. Carbone. 1,473,901; Nov. 13.
Vehicle. J. E. Rebours. 1,474,163; Nov. 13.
Vehicle bodies, Pneumatic support for. J. M. and W. C. Akers. 1,474,222; Nov. 13.
Vehicle fender and bumper, Combined. W. Jaeger. 1,474,263; Nov. 13.
Vehicle, Lumber-pile. H. F. Weatherby. 1,473,894; Nov. 13.
Vehicle wheel. W. Cambridge. 1,473,810; Nov. 13.
Vehicle wheels, Traction device for. C. C. Huston. 1,473,957; Nov. 13.
Vehicle wheels, Traction device for motor-. G. A. Purdy. 1,473,872; Nov. 13.
Vehicles and the like, Folding hood for motor. G. H. Wenham. 1,473,895; Nov. 13.
Vehicles and the like, Top for. F. K. Lewis. 1,474,047; Nov. 13.
Vehicles, Spring suspension mechanism for. F. H. Headley. Re15,721; Nov. 13.
Vehicles, Throttle-control apparatus for motor. G. Bailhe. 1,473,754; Nov. 13.
Vending machine. H. R. Mitchell. 1,473,828; Nov. 13.
Ventilator: *See*—
Automobile ventilator.
Vibration-recording apparatus. B. Liebowitz. 1,473,911; Nov. 13.
Violin chin rest. G. W. Dittmann. 1,473,672; Nov. 13.
Vise, Combination hand. A. W. Amsden and W. D. Starrett. 1,473,946; Nov. 13.
Vise, Hand. A. Schwager. 1,473,880; Nov. 13.
Vitamine solution. I. F. Harris. 1,474,029; Nov. 13.
Wall and installing same, Sheet-piling. L. B. Langworthy. 1,474,195; Nov. 13.
Wall board. J. W. Wagner. 1,473,981; Nov. 13.
Wall tie. H. H. Lampert. 1,474,046; Nov. 13.
Washing apparatus with multiple ascending currents. A. Jacquelin. 1,473,788; Nov. 13.
Washing machine. H. A. Kaufe. 1,474,041; Nov. 13.
Washing machine. L. V. Martel and P. Methot. 1,474,277; Nov. 13.
Washing machine. E. Molnar. 1,474,280; Nov. 13.
Washing machines, Safety attachment for. H. F. Kuhns. 1,473,993; Nov. 13.
Watches, Winding mechanism for. F. G. Gruen. 1,473,763; Nov. 13.
Water gauge. G. H. Sargent. 1,473,741; Nov. 13.
Water heater, Electric. W. E. Burgess. 1,474,104; Nov. 13.
Water-heating apparatus, Gas-heated. H. J. Maladry. 1,473,859; Nov. 13.
Water-meter lock. J. J. Walker. 1,473,751; Nov. 13.
Water-power stations, Regulating. O. Poebing. 1,474,086; Nov. 13.
Water-tube boiler. A. D. Pratt. 1,474,162; Nov. 13.
Water-tube boiler. J. M. Sullivan. 1,473,712; Nov. 13.
Waves, System for producing modulated. R. A. Heising. Re15,722; Nov. 13.
Webbing fabric. C. A. Horton. 1,474,079; Nov. 13.

Wedge for use in wood rolls and the like. C. C. Harris. 1,474,114; Nov. 13.
Weighing mechanism. L. T. Johnson. 1,474,039; Nov. 13.
Welders, Universal point and carrier for. F. P. McBerty. 1,474,199; Nov. 13.
Well fishing tool. C. A. Brust, jr. 1,474,232; Nov. 13.
Well screen. H. Rodrigo, sr. 1,473,644; Nov. 13.
Wells, Fishing apparatus for. A. H. Brandon. 1,473,606; Nov. 13.
Wells, Safety device for elevator. C. D. Wood and E. R. DeLong. 1,474,185; Nov. 13.
Wheel: *See*—
Buffing wheel.
Metal wheel.
Ply-wood wheel.
Resilient wheel.
Vehicle wheel.
Wind deflector and antiglare device, Combined. A. F. Hoff. 1,474,034; Nov. 13.
Winding mechanism particularly for windows, Spring-actuated. E. J. Rawlings. 1,473,739; Nov. 13.
Window mechanism, Sliding-. E. P. Farum. 1,473,928; Nov. 13.
Window screen and storm sash combined. J. J. Keldsen. 1,473,631; Nov. 13.
Windshield. G. E. Goddard. 1,473,848; Nov. 13.
Windshield wiper. P. Sherman. 1,474,005–6; Nov. 13.
Windshields, Anchor post for. C. S. Robertson. 1,473,875; Nov. 13.
Wire-binding device. D. Kenner. 1,474,265; Nov. 13.
Wood-cutting machine. A. H. Carrier. 1,474,337; Nov. 13.
Wood, Preserving. F. Bodmar. 1,473,899; Nov. 13.
Wood-screw machine. H. L. Smith. 1,474,177; Nov. 13.
Wrapping machine. C. E. Steere. 1,474,181; Nov. 13.
Wrench: *See*—
Jar-cap wrench.
Wrench. C. P. Byrne. 1,474,236; Nov. 13.
Wringers, Safety device for power-driven. A. W. Kratz, jr. 1,474,045; Nov. 13.
Writing machine. H. Elmblad. 1,474,247; Nov. 13.
X-ray-film holder. A. Segall. 1,474,174; Nov. 13.
Yarn cleaner. R. G. Jennings. 1,473,908; Nov. 13.

CLASSIFICATION OF PATENTS

ISSUED NOVEMBER 13, 1923.

NOTE.—First number=class, second number=subclass, third number=patent number.

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6: 1,474,220
241— 26: 1,474,268
242— 80: 1,474,319
85: 1,473,678
123: 1,473,681
127: 1,472,607
244— 5: 1,473,744
246— 146: 1,473,841
293: 1,473,905
428: 1,474,161
247— 16: 1,473,812
248— 32: 1,474,059
250— 17: 1,473,921
19: R. 15,722
1,473,719
24: 1,474,242
27: 1,474,293
251— 6: 1,474,211
68: 1,474,036
148: 1,474,192
166: 1,473,774
1,473,775
253— 16.5: 1,474,318
54: 1,473,690
97: 1,474,086
254— 118: 1,474,223
166: 1,474,054
255— 18: 1,473,968
75: 1,474,274
257— 130: 1,474,082

258— 11: 1,474,101
259— 96: 1,473,734
260— 52: 1,473,887
134: 1,474,035
262— 8: 1,474,311
28: 1,473,729
1,474,000
263— 15: 1,474,157
20: 1,474,016
265— 60: 1,474,039
71: 1,473,696
267— 5: R. 15,721
10: 1,473,638
17: 1,474,126
29: 1,474,125
268— 8: 1,473,843
9: 1,474,214
274— 35: 1,473,707
280— 61: 1,473,912
96.1: 1,474,057
106: 1,473,651
166: 1,473,858
283— 14: 1,473,940
285— 1: 1,474,270
110: 1,474,155
287— 53: 1,474,153
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60: 1,473,677
90: 1,473,931
292— 63: 1,473,926
105: 1,473,869
173: 1,474,158
220: 1,474,028
262: 1,473,655
283: 1,474,042
338: 1,473,833
1,473,834
340: 1,473,836

293— 26: 1,474,263
55: 1,473,689
1,474,273
294— 3: 1,473,851
21: 1,474,221
86: 1,474,234
88: 1,473,605
91: 1,473,684
96: 1,474,232
104: 1,473,724
296— 24: 1,473,850
37: 1,474,283
45: 1,473,895
1,474,316
47: 1,473,928
84: 1,474,034
1,474,076
92: 1,473,848
97: 1,473,878
98: 1,474,163
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116: 1,474,047
145: 1,474,166
299— 98: 1,474,204
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301— 11: 1,473,623
35: 1,474,244
44: 1,473,957
56: 1,474,183
63: 1,473,669
1,473,694
1,473,810
303— 14: 1,473,759
18: 1,474,187
67: 1,473,758
304— 29: 1,474,249
34: 1,474,289

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abraham & Straus, Inc., New York, N. Y. Toy automobiles. 176,138; Nov. 20; Serial No. 183,016; published Sept. 11, 1923.

Agrilin Chemical Company, The, Wilmington, Del., and New York, N. Y. Laxative. 176,323; Nov. 20; Serial No. 181,970; published Sept. 11, 1923.

Ahearn, John M., Marblehead, Mass. Shoes. 176,333; Nov. 20.

Albeco Company, San Francisco, Calif. Foot-relief powder, massage cream, vanishing cream, hair pomade, etc. 176,221; Nov. 20; Serial No. 176,309; published Aug. 14, 1923.

Alexandria Coffee Company. (See Yates, Claude R.)

Alpen Company, The, St. Louis, Mo. Counterirritant and rubefacient. 176,309; Nov. 20; Serial No. 179,129; published Aug. 7, 1923.

American Nicotine Company, Henderson, Ky. Nicotine sulphate, free nicotine, and tobacco extracts. 176,235; Nov. 20; Serial No. 162,096; published Aug. 14, 1923.

American Wholesale Corporation (Baltimore Bargain House), Baltimore and Cumberland, Md. Men's garters. 176,350; Nov. 20.

American Wholesale Corporation (Baltimore Bargain House), Baltimore, Md. Arm bands. 176,360; Nov. 20.

American Witch Hazel Supply Co., New York, N. Y. Perfume extract, talcum powder, cold cream, face lotion, etc. 176,286; Nov. 20; Serial No. 178,701; published Aug. 14, 1923.

Anderson, Cleon E., doing business as D. W. Anderson Drug Co., Moroni and Ephraim, Utah. Preparation for canker and sore throat. 176,185; Nov. 20; Serial No. 175,292; published July 31, 1923.

Andrew Jergens Company, The, Cincinnati, Ohio. Soap. 176,193; Nov. 20; Serial No. 148,150; published Oct. 3, 1922.

Andrews, H. P., Paper Company, New York, N. Y. Tough manila paper. 176,349; Nov. 20.

Aniseptol Chemical Co. (See Barab, Jacob.)

Antoine Chiris Company, New York, N. Y. Phenylacetaldehyde, phenyl ethyl alcohol and acetate, etc. 176,365; Nov. 20.

Aroma Incense Company, Los Angeles, Calif. Incense. 176,335; Nov. 20.

Astoria By-Products Co. (See Carruthers, Mrs. Richard.)

Athens Hosiery Mills, Athens, Tenn. Misses' hosiery. 176,269; Nov. 20; Serial No. 176,530; published Sept. 4, 1923.

Authorized Wassermann Medical Corporation, New York, N. Y. Medicated plasters. 176,169; Nov. 20; Serial No. 177,211; published Aug. 28, 1923.

Azol Laboratories. (See Gilbert, Glenn R.)

Baltar, Joseph T., New Orleans, La. Tablets for the treatment of colds, la grippe, and headache. 176,307; Nov. 20; Serial No. 179,258; published Aug. 14, 1923.

Bamberger, L., & Co., Newark, N. J. Women's suits. 176,112; Nov. 20; Serial No. 160,483; published Sept. 11, 1923.

Barab, Jacob, doing business as Aniseptol Chemical Co., Wilmington, Del. Emollient for use for chapped skin, sunburn, etc. 176,318; Nov. 20; Serial No. 179,085; published Sept. 11, 1923.

Barbieri, Peter, Perth Amboy, N. J. Rubber soles and heels. 176,119; Nov. 20; Serial No. 166,082; published Nov. 14, 1922.

Barr Manufacturing Corporation, Tyrone, Pa. Complexion clay. 176,296; Nov. 20; Serial No. 179,392; published July 31, 1923.

Battle Creek Food Company, The, Battle Creek, Mich. Antitoxic foods, paraffin tablets and oil, etc. 176,228; Nov. 20; Serial No. 175,060; published Aug. 14, 1923.

Bayard Chemical Company, New York, N. Y. Hair pomade. 176,301; Nov. 20; Serial No. 179,393; published July 31, 1923.

Bell, Frank W., doing business as The Bell Emulsion Company, Staunton, Va. Petroleum emulsion. 176,186; Nov. 20; Serial No. 175,334; published Aug. 14, 1923.

Berry, Demoville & Co., Nashville, Tenn. Castor oil. 176,227; Nov. 20; Serial No. 176,157; published Aug. 7, 1923.

Bickum, Dorothy, New York, N. Y. Combined bandeau and girdle, combined brassière and girdles, combined brassière and corselette. 176,210; Nov. 20; Serial No. 178,953; published Aug. 28, 1923.

Borgenicht & Sons Co. Inc., New York, N. Y. Children's and misses' dresses. 176,109; Nov. 20; Serial No. 158,843; published Aug. 28, 1923.

Boucher, Wm., & Sons, Baltimore, Md. Cigars and tobaccos. 176,125; Nov. 20; Serial No. 174,816; published Sept. 11, 1923.

Braun, J. H., & Co., Chicago, Ill. Coffee and tea. 176,265; Nov. 20; Serial No. 177,267; published Aug. 21, 1923.

Brauns, Wilhelm, Gesellschaft mit beschränkter Haftung, Quedlinburg, Germany. Colors for dyeing purposes. 176,184; Nov. 20; Serial No. 174,160; published Aug. 14, 1923.

Brown Manufacturing Co., Greeneville, Tenn. Stimulating antiseptic oil. 176,354; Nov. 20.

Buddy Brooks, Inc., Marshall, Mich. Talcum powders. 176,231; Nov. 20; Serial No. 162,375; published Aug. 14, 1923.

Burnham, E., Inc., Chicago, Ill. Extract, toilet water, face powder, etc. 176,367; Nov. 20.

Burns, William J., Brooklyn, N. Y. Hair tonic. 176,321; Nov. 20; Serial No. 180,416; published Aug. 14, 1923.

Burstein-Friedland & Co., Newark, N. J. Boys' blouses and shirts. 176,118; Nov. 20; Serial No. 166,976; published Sept. 11, 1923.

Cadet Knitting Company, Philadelphia, Pa. Sweater coats. 176,249; Nov. 20; Serial No. 180,652; published Sept. 4, 1923.

Calajoe, Anthony J., New York, N. Y. Hair grower. 176,244; Nov. 20; Serial No. 176,162; published Aug. 7, 1923.

California Alfalfa Products Company, Pasadena, Calif. Medicine in tablet form. 176,195; Nov. 20; Serial No. 158,221; published Apr. 3, 1923.

California and Hawaiian Sugar Refining Corporation, San Francisco, Calif. Sugar. 176,120; Nov. 20; Serial No. 165,352; published Sept. 4, 1923.

Cammeyer, New York, N. Y. Shoes. 176,262–3; Nov. 20; Serial Nos. 178,327-8; published Aug. 28, 1923.

Carruthers, Mrs. Richard, doing business as Astoria By-Products Co., Astoria, Oreg. Salmon eggs for bait. 176,135; Nov. 20; Serial No. 183,362; published Sept. 11, 1923.

Chemical Enterprises Incorporated, New York, N. Y. Disinfectants, insecticides, and deodorants. 176,308; Nov. 20; Serial No. 179,133; published Aug. 14, 1923.

Chemische Fabrik Grünau Landshoff & Meyer, Aktiengesellschaft, Berlin and Grunau, near Berlin, Germany. Chemical products used in dyeing. 176,288; Nov. 20; Serial No. 180,327; published Aug. 14, 1923.

Chimnee Sweep Manufacturing Company, San Francisco, Calif. Dry black chemical powder used as a soot destroyer. 176,285; Nov. 20; Serial No. 178,825; published Aug. 28, 1923.

City of Paris Dry Goods Company, San Francisco, Calif. Bath salts. 176,190; Nov. 20; Serial No. 175,917; published July 31, 1923.

Clark, Guy O., Vancouver, British Columbia, Canada, and Seattle, Wash. Dairy product and pasteurizing the same. 176,357; Nov. 20.

Claverie, Leon, Paris, France. Depilatory. 176,168; Nov. 20; Serial No. 177,275; published Aug. 28, 1923.

Commonwealth Shoe and Leather Company, Boston, Mass. Leather boots and shoes. 176,211; Nov. 20; Serial No. 178,894; published Aug. 28, 1923.

Commonwealth Shoe and Leather Company, Boston, Mass. Leather boots and shoes. 176,342; Nov. 20.

Commonwealth Shoe and Leather Company, Boston, Mass. Leather boots and shoes. 176,375; Nov. 20.

Condrajian, Aram K., Fresno, Calif. Salves and pills used in the treatment of piles. 176,289; Nov. 20; Serial No. 180,328; published Aug. 28, 1923.

Consolidated Cigar Corporation, New York, N. Y. Cigars. 176,144; Nov. 20; Serial No. 183,734; published Sept. 11, 1923.

Coty, Inc., Wilmington, Del., and New York, N. Y. Perfumes, toilet water, face, sachet, and talcum powder, etc. 176,295; Nov. 20; Serial No. 180,099; publish[ed] Sept. 4, 1923.

Coty, Inc., Wilmington, Del., and New York, N. Y. Perfumes, toilet water, face powder, etc. 176,299; Nov. 20; Serial No. 180,104; published Aug. 14, 1923.

Craddock-Terry Co., Lynchburg, Va. Shoes. 176,274; Nov. 20; Serial No. 177,278; published Aug. 7, 1923.

Crofut & Knapp Co., The, South Norwalk, Conn. Caps and hats. 176,268; Nov. 20; Serial No. 176,253; published Aug. 7, 1923.

Cummings & Johnson, Salt Lake City, Utah. Card game. 176,257; Nov. 20; Serial No. 180,528; published July 31, 1923.

Davis, Sherk & Mason Cigar Co., Reading, Pa. Cigars. 176,242; Nov. 20; Serial No. 182,654; published Sept. 11, 1923.

Dayton Company, The, Minneapolis, Minn. Hosiery. 176,254; Nov. 20; Serial No. 182,335; published Sept. 4, 1923.

De Cameron Inc., New York, N. Y. Perfumes. 176,279; Nov. 20; Serial No. 178,961; published Aug. 14, 1923.

De Guile Laboratories, Inc., Minneapolis, Minn. Muscle oil, acne and bleaching lotions, lemon cream, etc. 176,164; Nov. 20; Serial No. 167,841; published Aug. 14, 1923.

D'Orlando & Co. Ltd., Boston, Mass. Candy and chocolates. 176,163; Nov. 20; Serial No. 168,357; published Sept. 4, 1923.

Douthit, A. S., doing business as Loup Valley Hatchery, Cushing, Nebr. Baby chicks, live poultry, and eggs. 176,355; Nov. 20.

Drug Products Co. Inc., The, Long Island City, N. Y. Food tonic and general stimulant to cell metabolism. 176,199; Nov. 20; Serial No. 166,134; published July 10, 1923.

Dudley Gum Company, Nashville, Tenn. Chewing gum. 176,196; Nov. 20; Serial No. 161,040; published Sept. 11, 1923.

Dunwoody, Halsey, Paris, France. Pharmaceutical preparations for rheumatism, bronchitis, etc. 176,229; Nov. 20; Serial No. 174,959; published Aug. 14, 1923.

Eagle Nest Hatchery. (See Little, Henry, & Sons.)

Earl, Grace D., Chicago, Ill. Face powder, perfume, rouge, etc. 176,110; Nov. 20; Serial No. 162,729; published Aug. 28, 1923.

Eisendrath, Joseph N., Company, The, Chicago, Ill. Leather gloves, gauntlets, and mittens. 176,131; Nov. 20; Serial No. 173,474; published July 24, 1923.

Eisendrath, Joseph N., Company, The, Chicago, Ill. Leather gloves, gauntlets, and mittens. 176,132; Nov. 20; Serial No. 173,469; published July 24, 1923.

Elowsky, S. M., & Co., Brooklyn, N. Y. Athletic apparel. 176,270; Nov. 20; Serial No. 177,478; published Sept. 4, 1923.

Ely & Walker Dry Goods Company, St. Louis, Mo. Knitted coats. 176,275; Nov. 20; Serial No. 178,096; published Sept. 11, 1923.

Ferond, Jules, Co., Inc., New York, N. Y. Preparation for the treatment of the scalp. 176,156; Nov. 20; Serial No. 169,381; published Aug. 14, 1923.

Ferris Bros. Company, The, New York, N. Y. Corsets, corset waists, and brassières. 176,142; Nov. 20; Serial No. 175,779; published July 31, 1923.

Fifth Avenue Corset Company, Inc., The, Allentown, Pa. Corsets, corselettes, and brassières. 176,251; Nov. 20; Serial No. 178,171; published Aug. 28, 1923.

Fleming & Company Ltd., Gore, Southland, New Zealand. Prepared oat-flour or prepared oatmeal. 176,198; Nov. 20; Serial No. 124,262; published June 21, 1921.

Fluenzol Proprietary, Ltd., The, Wellington, New Zealand, and New York, N. Y. Medicinal preparation. 176,154; Nov. 20; Serial No. 169,897; published Aug. 28, 1923.

Franc-Strohmenger & Cowan, Inc., New York, N. Y. Neckties, cravats, and scarfs. 176,126; Nov. 20; Serial No. 183,105; published Sept. 11, 1923.

Franklin Ice Cream Company, Kansas City, Mo. Ice cream. 176,278; Nov. 20; Serial No. 178,437; published Aug. 21, 1923.

Gallagher, John F., Chicago, Ill. Preparation used for the destruction and eradication of lice, insects, and other vermin. 176,234; Nov. 20; Serial No. 158,169; published Aug. 7, 1923.

Gastone Co., The, Rocky Mount, N. C. Medicine. 176,306; Nov. 20; Serial No. 179,266; published Aug. 21, 1923.

Gem-Air Permanent Wave Co. Inc., New York, N. Y. Oily preparation for producing permanent waves in the human hair. 176,159; Nov. 20; Serial No. 168,603; published Aug. 14, 1923.

Gilbert, Glenn R., doing business as Azol Laboratories, Chicago, Ill. Tooth paste, mouth wash, pyorrhea astringent, hair tonic, etc. 176,232; Nov. 20; Serial No. 167,612; published Aug. 7, 1923.

Glirr Mfg. Co., The. (See Wizart, John.)

Goerz Flour Mills Co., Newton, Kans. Wheat flour. 176,191; Nov. 20; Serial No. 152,796; published July 17, 1923.

Goldsmith, P., Sons, Company, The, Cincinnati, Ohio. Shoes, athletic hosiery, pants, sport clothes, etc. 176,359; Nov. 20.

Grant, W. T., Company, Lynn, Mass., and New York, N. Y. Men's shirts. 176,255; Nov. 20; Serial No. 180,472; published Sept. 11, 1923.

Gude Brothers Kieffer Company, New York, N. Y. Eggs. 176,180–1; Nov. 20; Serial Nos. 174,443–4; published July 10, 1923.

Gude Brothers, Kieffer Company, New York, N. Y. Butter and eggs. 176,182; Nov. 20; Serial No. 174,442; published July 10, 1923.

Gude Brothers, Kieffer Company, New York, N. Y. Eggs. 176,183; Nov. 20; Serial No. 174,440; published July 10, 1923.

H. I. Distillator & Son, New York, N. Y. Ladies' hats. 176,276; Nov. 20; Serial No. 177,727; published July 31, 1923.

H-M Manufacturing Co., Kent, Ohio. Supplemental waterproof fiber cushioning soles for boots and shoes. 176,277; Nov. 20; Serial No. 177,605; published Aug. 28, 1923.

Handley, Peter, Garland, Tex. Preparation for headache, neuralgia, etc. 176,311; Nov. 20; Serial No. 179,148; published Sept. 4, 1923.

Harper & Kirschten Shoe Co., The, Chicago, Ill. Shoes made wholly or in part of leather. 176,160; Nov. 20; Serial No. 168,327; published Aug. 7, 1923.

Harris, Charles G., jr., Philadelphia, Pa. Vegetable oils for hemorrhoids, cuts, bruises, etc. 176,237; Nov. 20; Serial No. 160,707; published Aug. 14, 1923.

Hawie, Michael, Bridgeport, Conn. Hose supporters and parts thereof. 176,352; Nov. 20.

Heepe, Richard, Brooklyn, N. Y. Antifreezing liquid. 176,230; Nov. 20; Serial No. 176,181; published Sept. 4, 1923.

Herb Juice Medicine Co., Inc., Jackson, Tenn. Herb juice and laxative compound. 176,338; Nov. 20.

Herb Juice Medicine Co., Inc., Jackson, Tenn. Herb juice and laxative compound. 176,344; Nov. 20.

Holland, Joshua, doing business as Holland Pharmaceutical Company, Chicago, Ill. Sore-throat remedy. 176,293; Nov. 20; Serial No. 179,407; published Aug. 14, 1923.

Holtite Manufacturing Company, Baltimore, Md. Rubber heels for shoes. 176,214; Nov. 20; Serial No. 178,844; published Aug. 28, 1923.

Hood Rubber Company, Watertown, Mass. Rubber boots, shoes, and overshoes, rubber-soled canvas shoes. 176,205; Nov. 20; Serial No. 179,470; published Aug. 14, 1923.

Houbigant, Inc., New York, N. Y. Perfume, toilet water, face powder, etc. 176,166; Nov. 20; Serial No. 176,025; published Aug. 14, 1923.

Huff, John S., doing business as The Kleans-It Manufacturing Co., New Brighton, Pa. Chemical preparation for cleaning closet bowls. 176,284; Nov. 20; Serial No. 178,846; published Aug. 14, 1923.

Hutchings Medicine Co. (See West, Ernest G.)

Hutt & Wasserman, Inc., New York, N. Y. Men's hats. 176,266; Nov. 20; Serial No. 176,418; published June 12, 1923.

Ideal Novelty & Toy Co., Brooklyn, N. Y. Dolls. 176,133; Nov. 20; Serial No. 183,524; published Sept. 11, 1923.

International Shoe Company, St. Louis, Mo. Leather shoes. 176,200; Nov. 20; Serial No. 179,471; published Aug. 14, 1923.

Jackson, John W., Palmetto, Fla. Waterproofing compound for use on shingle roofs and wood shingles. 176,188; Nov. 20; Serial No. 173,424; published May 15, 1923.

Johnson, William H., Arlington, N. J. Garters. 176,140; Nov. 20; Serial No. 174,841; published July 24, 1923.

Jones, Alice, New York, N. Y. Corsets. 176,364; Nov. 20.

Josey-Miller Company, Beaumont, Tex. Horse and mule feed. 176,179; Nov. 20; Serial No. 176,680; published Aug. 28, 1923.

Jouvence Company Inc., The, New York, N. Y. Liquid for cleansing and beautifying the skin and improving the complexion. 176,319; Nov. 20; Serial No. 179,045; published July 31, 1923.

Kennard, Victor P., Greenland, N. H. Jellies. 176,153; Nov. 20; Serial No. 169,976; published Aug. 28, 1923.

Keystone Steel and Wire Company, Bartonville, Peoria, Ill. Plain galvanized wire and galvanized telephone wire. 176,325; Nov. 20; Serial No. 184,731; published Sept. 18, 1923.

Keystone Steel & Wire Company, Bartonville, Peoria, Ill. Wire fence and barbed wire. 176,327; Nov. 20; Serial No. 180,935; published Sept. 18, 1923.

Keystone Steel & Wire Company, Bartonville, Peoria, Ill. Wire fence and barbed wire. 176,328; Nov. 20; Serial No. 183,655; published Sept. 18, 1923.

Keystone Steel & Wire Company, Bartonville, Peoria, Ill. Plain galvanized wire and galvanized telephone wire. 176,329; Nov. 20; Serial No. 184,730; published Sept. 18, 1923.

Kings County Packing Co., Armona, Calif. Canned fruits. 176,162; Nov. 20; Serial No. 168,422; published Sept. 4, 1923.

Kisco Pharmacal Co. (See Schuman, Lewis.)

Klebanoff, David, doing business as Postive Chemical Co., Philadelphia, Pa. Insecticides. 176,302; Nov. 20; Serial No. 179,375; published Sept. 11, 1923.

Klein, L., Inc., Chicago, Ill. Men's hats and shirts. 176,127; Nov. 20; Serial No. 174,208; published Sept. 11, 1923.

Kleis, Adolf J., doing business as Sheik Toilet Products Company, Chicago, Ill. Hair dressing. 176,171; Nov. 20; Serial No. 177,443; published Sept. 4, 1923.

Koch, H. C. F., & Co., Inc., New York, N. Y. Hosiery. 176,273; Nov. 20; Serial No. 177,389; published Sept. 11, 1923.

Kohn & Silverberg, Chicago, Ill. Dyes and dye sticks. 176,305; Nov. 20; Serial No. 179,208; published Aug. 14, 1923.

Laclede-Christy Clay Products Company, St. Louis, Mo. Modeling clay. 176,358; Nov. 20.

Land, Julius, doing business as Vanitie Hat Co., New York, N. Y. Ladies,' misses,' and children's hats. 176,106; Nov. 20; Serial No. 152,428; published July 24, 1923.

Lee County Packing Co., Fort Myers, Fla. Fresh citrous fruits. 176,253; Nov. 20; Serial No. 178,261; published Sept. 4, 1923.

Leichner, L., Berlin, Germany. Face powder, toilet rouge powder and toilet rouge sticks, etc. 176,223; Nov. 20; Serial No. 166,186; published Aug. 7, 1923.

Libby, McNeill & Libby, Chicago, Ill. Canned, dried, and preserving fruits, berries, vegetables, etc. 176,267; Nov. 20; Serial No. 176,268; published Sept. 4, 1923.

Lichtenstein, L., Inc., New York, N. Y. Women's hats. 176,374; Nov. 20.

Lilly, E. F., doing business as E. F. Lilly Company, Morganton, N. C. Insect-destroying compound. 176,316; Nov. 20; Serial No. 179,048; published Aug. 14, 1923.

Little, Elmer & Son, Johnstown, N. Y. Gloves. 176,343; Nov. 20.

Little, Henry, & Sons, doing business as The Eagle Nest Hatchery, Upper Sandusky, Ohio. Live chicks. 176,187; Nov. 20; Serial No. 167,086; published Sept. 11, 1923.

Lodder, Andrew J., doing business as Park Chemical Company, Cincinnati, Ohio. Water-soluble powder for application to windows for eliminating sun glare. 176,173; Nov. 20; Serial No. 178,561; published Aug. 14, 1923.

London Shoe Company, Inc., New York, N. Y., and Chicago, Ill. Shoes. 176,334; Nov. 20.

Loup Valley Hatchery. (See Douthit, A. S.)

Lovell, H. R., & Co., Greenville, Pa. Preparation for the treatment of itching and diseased scalps, etc. 176,167; Nov. 20; Serial No. 177,308; published Aug. 14, 1923.

Lyon, J. H., & Co., Montgomery, Ala. Hosiery. 176,261; Nov. 20; Serial No. 182,597; published Sept. 4, 1923.

McPherson, Wallis D., doing business as Paoha Island Works, Mono Lake, Calif. Medicinal salt for cleaning the hair and scalp, removing dandruff, and treating burns. 176,197; Nov. 20; Serial No. 165,703; published Oct. 31, 1922.

Mabley & Carew Company, The, Cincinnati, Ohio. Boots and shoes. 176,361; Nov. 20.

Mann, Arthur B., doing business as Tecq Products Company, Brooklyn, N. Y. Skin lotions and medicinal preparations for inflammed mucous membrane. 176,170; Nov. 20; Serial No. 177,499; published Aug. 7, 1923.

Margus, Julie, Berkeley, Calif. Liquid medicine for tuberculosis. 176,238; Nov. 20; Serial No. 164,656; published Aug. 7, 1923.

Massachusetts Tire Sales Co., Inc., Boston, Mass. Rubber tires. 176,356; Nov. 20.

Menley & James, Limited, New York, N. Y. Pessaries, suppositories, and a preparation of liquid iodine. 176,225; Nov. 20; Serial No. 177,188; published Aug. 28, 1923.

Merck & Co., New York, N. Y. Preparation used for the treatment of goiter and as a prophylactic. 176,297; Nov. 20; Serial No. 180,076; published Aug. 14, 1923.

Meyer, Bacharach & Friedheim, New York, N. Y. Neckties. 176,129; Nov. 20; Serial No. 174,184; published Sept. 11, 1923.

Miller, C. R., Mfg. Co., Fort Worth, Tex. Dress shirts. 176,146; Nov. 20; Serial No. 172,115; published Aug. 28, 1923.

Mills, James G., doing business as Saltersod Company, Electra, Tex. Preparation for treatment of influenza. 176,294; Nov. 20; Serial No. 180,339; published Aug. 14, 1923.

Model Brassiere Co., Inc., New York, N. Y. Brassières and garter brassières. 176,204; Nov. 20; Serial No. 179,280; published Aug. 14, 1923.

Moorman Manufacturing Company, Quincy, Ill. Tonics for animals. 176,157; Nov. 20; Serial No. 169,316; published Aug. 28, 1923.

Mosse, Incorporated, New York, N. Y. Bed sheets, pillowcases, bedspreads, table linens, towels. 176,201; Nov. 20; Serial No. 180,022; published Aug. 21, 1923.

Mudge & Company, Chicago, Ill. Railway gasoline-motor cars. 176,336; Nov. 20.

National Cap Manufacturing Company, Incorporated, Men's, youths' and boys' caps. 176,209; Nov. 20; Serial No. 178,862; published Sept. 4, 1923.

National Pharmacal Company, The, Cleveland, Ohio. Ointments, salves, and preparations for application to the skin for the relief of muscular rheumatism, etc. 176,222; Nov. 20; Serial No. 177,686; published Aug. 28, 1923.

Natural Products Refining Co., Jersey City, N. J. Bichromate of soda and bichromate of potash. 176,224; Nov. 20; Serial No. 177,195; published Aug. 7, 1923.

Neuhoff, Fred B., doing business as Fred B. Neuhoff Company, Los Angeles, Calif. Canned fruits and vegetables. 176,151; Nov. 20; Serial No. 171,856; published Sept. 4, 1923.

New York Canneries, Inc., Rochester, N. Y. Canned fruits and vegetables. 176,158; Nov. 20; Serial No. 168,722; published Aug. 21, 1923.

New York Merchandise Company, New York, N. Y. Hosiery. 176,248; Nov. 20; Serial No. 182,604; published Sept. 4, 1923.

Niagara Shoe Company, Inc., Buffalo, N. Y. Shoes. 176,362–3; Nov. 20.

Nicholls-Loomis Co., Los Angeles, Calif. Livestock and poultry feeds, wheat and rye flours, etc. 176,326; Nov. 20; Serial No. 154,990; published Sept. 12, 1922.

Noavo Laboratories, Los Angeles, Calif. Medicinal preparation used as a fat reducer. 176,208; Nov. 20; Serial No. 178,863; published Sept. 4, 1923.

Nordman, Ferdinand B., jr., Number Nine Plantation, Volusia County, Fla. Fruits, jellies, jams, sirups, etc. 176,122; Nov. 20; Serial No. 146,979; published Aug. 28, 1923.

Novocol Chemical Mfg. Co., Inc., Brooklyn, N. Y. Solution of suprarenal extract. 176,165; Nov. 20; Serial No. 177,319; published Aug. 7, 1923.

Oak Grove General Sanitarium. (See Secoy, Edward A.)

Odor, Frank B., Coshocton, Ohio. Medicine for treatment of tuberculosis of the bone and like diseases. 176,283; Nov. 20; Serial No. 178,864; published Aug. 14, 1923.

Orosz, John, Adena, Ohio. Blood-cleaning liquid. 176,317; Nov. 20; Serial No. 179,011; published Aug. 14, 1923.

Pacific Children's Wear Mfg. Co. (See Schwartz, Jacob.)

Paoha Island Works. (See McPherson, Wallis D.)

Park Chemical Company. (See Lodder, Andrew J.)

Park & Tilford, New York, N. Y. Toothbrushes. 176,161; Nov. 20; Serial No. 168,487; published Dec. 5, 1922.

Parke, Davis & Company, Detroit, Mich. Extract anterior lobe pituitary gland. 176,313; Nov. 20; Serial No. 179,220; published July 31, 1923.

Perper, Dalton E., New York, N. Y. Ladies' and misses' dresses. 176,240; Nov. 20; Serial No. 182,835; published Sept. 11, 1923.

Perry, A. J., and Co., Dunlow, W. Va. Medicinal preparation for the treatment of stomach and bowel troubles, coughs, etc. 176,223; Nov. 20; Serial No. 177,242; published Aug. 7, 1923.

Pestine Chemical Co. (See Klebanoff, David.)

Phillips, Charles H., Chemical Co., The, Glenbrook, Conn., and New York, N. Y. Preparations of magnesia, preparations of cod-liver oil; and tonic medicines. 176,216; Nov. 20; Serial No. 178,463; published Sept. 11, 1923.

Phillips, Charles H., Chemical Co., The, Glenbrook, Conn., and New York, N. Y. Preparations of magnesia, preparations of cod-liver oil, and tonic medicines. 176,217; Nov. 20; Serial No. 178,466; published Sept. 11, 1923.

Phillips-Jones Corporation, New York, N. Y. Shirts, blouses, and pyjamas. 176,137; Nov. 20; Serial No. 183,122; published Sept. 11, 1923.

Pierce, S. S., Co., Boston, Mass. Cigars. 176,139; Nov. 20; Serial No. 183,043; published Sept. 11, 1923.

Plant, Thomas G., Company, Boston, Mass. Boots, shoes, and slippers. 176,124; Nov. 20; Serial No. 167,422; published July 31, 1923.

Pogo Company, The, New York, N. Y. Jumping stick. 176,107; Nov. 20; Serial No. 154,757; published June 20, 1922.

Pope, Angelo D., New York, N. Y. Gelatinous compound and nonalcoholic preparation for the relief of dyspepsia, loss of appetite, etc. 176,304; Nov. 20; Serial No. 179,282; published Aug. 21, 1923.

Press, Candace M., doing business as C. M. Press & Co., Cement, Ohio. Preparation for pyorrhea, abscesses, sores, cancer, and ulcers. 176,189; Nov. 20; Serial No. 174,637; published Sept. 4, 1923.

Puget Sound Oil Works, Inc., Seattle, Wash. Vegetable oils. 176,105; Nov. 20; Serial No. 140,398; published Aug. 21, 1923.

Pugsley, Daniel D., New York, N. Y. Liniment and hair grower. 176,345; Nov. 20.

Pure Milk & Dairy Co., Tiffin, Ohio. Cheese, ice cream. 176,376; Nov. 20.

Puro Products Co., Superior, Wis. Pile cure. 176,172; Nov. 20; Serial No. 177,407; published Aug. 28, 1923.

Quaker City Sweater Mills, Philadelphia, Pa. Sweaters. 176,116; Nov. 20; Serial No. 163,649; published Aug. 28, 1923.

Quaker City Sweater Mills, Philadelphia, Pa. Sweaters. 176,117; Nov. 20; Serial No. 163,647; published Aug. 28, 1923.

R & G Corset Company, Inc., New York, N. Y. Women's corsets. 176,366; Nov. 20.

Rabiner Brothers, Chicago, Ill. Hats and caps. 176,212; Nov. 20; Serial No. 178,670; published Aug. 28, 1923.

Randell & Co., New York, N. Y. Medicinal belt for treatment of kidneys. 176,312; Nov. 20; Serial No. 179,112; published Sept. 4, 1923.

Real Silk Hosiery Mills, Indianapolis, Ind. 176,369; Nov. 20.

Red Top Malt Extract Co., Cincinnati, Ohio. Malt sirups. 176,113; Nov. 20; Serial No. 164,831; published Aug. 28, 1923.

Reed, E. P., & Co., Rochester, N. Y. Shoes made of leather. 176,256; Nov. 20; Serial No. 180,554; published Sept. 14, 1923.

Reed, E. P., & Co., Rochester, N. Y. Shoes made of leather. 176,258; Nov. 20; Serial No. 180,553; published Sept. 4, 1923.

Reese, George, doing business as Return Oil Ring Co., San Francisco, Calif. Piston rings. 176,353; Nov. 20.

Return Oil Ring Co. (See Reese, George.)

Richman, Philip, New York, N. Y. Fur garments. 176,111; Nov. 20; Serial No. 162,349; published Aug. 28, 1923.

Richmond Hosiery Mills, Rossville, Ga. Hosiery. 176,245; Nov. 20; Serial No. 182,838; published Sept. 11, 1923.

Rickard Shoe Company, Haverhill, Mass. Shoes. 176,340; Nov. 20.

River-Lake Chemical Co., Silver Spring, Md. Fire-extinguishing compound. 176,239; Nov. 20; Serial No. 160,905; published Aug. 7, 1923.

Roberts, Jonathan, Camden, N. J. Shoes. 176,332; Nov. 20.

Roosa, Herbert H., Rochester, N. Y. Boots, shoes, shoe heels and shanks, and parts of boots and shoes. 176,123; Nov. 20; Serial No. 167,658; published Aug. 28, 1923.

Rubber Service Laboratories Co., The, Akron, Ohio. Compound produced by the interaction of aldehydes and amines and used in curing rubber articles. 176,175; Nov. 20; Serial No. 177,624; published Aug. 14, 1923.

Rubinsky, Benjamin, doing business as Youngsters Novelty Co., New York, N. Y. Boys' suits and girls' dresses. 176,128; Nov. 20; Serial No. 174,262; published Sept. 11, 1923.

Saenger Drug Company, Inc., Shreveport, La. Tonic for women. 176,337; Nov. 20.

Saltersod Company. (See Mills, James G.)

Salvaderm Co., New York, N. Y. Skin lotion. 176,280; Nov. 20; Serial No. 178,934; published Aug. 14, 1923.

Sampliner, P. H., Company, The, Cleveland, Ohio. Ladies' and misses' outer clothing, coats, suits, and dresses. 176,250; Nov. 20; Serial No. 180,724; published Sept. 11, 1923.

Sang Yuen & Co., San Francisco, Calif. Product made of beans. 176,130; Nov. 20; Serial No. 174,162; published Sept. 4, 1923.

Santa Paula Citrus Fruit Association, Santa Paula, Calif. Fresh lemons. 176,115; Nov. 20; Serial No. 163,702; published Sept. 4, 1923.

Schanzer, Siegfried, New York, N. Y. Knitted and woven caps. 176,202; Nov. 20; Serial No. 180,031; published Aug. 14, 1923.

Schmidt, A. O., doing business as A. O. Schmidt Co., San Francisco, Calif. Medicine for diseases peculiar to females. 176,178; Nov. 20; Serial No. 178,573; published Aug. 7, 1923.

Schmidt, Albert C., San Francisco, Calif. Female suppositories for the local treatment of catarrhal conditions of the vagina and uterine cervix. 176,243; Nov. 20; Serial No. 177,698; published Aug. 14, 1923.

Schreiber, Nathan, New York, N. Y. Hats for women and children. 176,371; Nov. 20.

Schuman, Lewis, doing business as Kisco Pharmacal Co., Mount Kisco, N. Y. Preparation for asthmatic paroxisms, hay asthma or rose cold, and bronchitis. 176,292; Nov. 20; Serial No. 180,194; published Aug. 14, 1923.

Schwartz, Jacob, doing business as Pacific Children's Wear Mfg. Co., Los Angeles, Calif. Rompers, wash suits, dresses, etc. 176,121; Nov. 20; Serial No. 167,151; published Aug. 7, 1923.

Sears, Roebuck and Co., Chicago, Ill. Corsets. 176,141; Nov. 20; Serial No. 175,525; published July 31, 1923.

Secoy, Edward A., doing business as Oak Grove General Sanitarium, Williamsport, Ohio. Medicine for the treatment of influenza, etc. 176,282; Nov. 20; Serial No. 178,875; published Aug. 14, 1923.

Selig Company, The, Atlanta, Ga. Deodorizing fluid. 176,290; Nov. 20; Serial No. 180,393; published Aug. 14, 1923.

Selig Company, The, Atlanta, Ga. Disinfectant. 176,291; Nov. 20; Serial No. 180,394; published Aug. 14, 1923.

Selig Company, The, Atlanta, Ga. Disinfectant. 176,296; Nov. 20; Serial No. 180,395; published Aug. 14, 1923.

Selig Company, The, Atlanta, Ga. Disinfectant. 176,322; Nov. 20; Serial No. 180,396; published Aug. 14, 1923.

Selkow, Irving, doing business as Washington Barber Supply Co., New York, N. Y. Hair tonic. 176,300; Nov. 20; Serial No. 179,227; published Aug. 14, 1923.

Sheik Toilet Products Company. (See Klein, Adolf J.)

Sherman Coffee Company, The, Sherman, Tex. Roasted and ground coffee. 176,219; Nov. 20; Serial No. 178,475; published Aug. 21, 1923.

Sherwood Petroleum Company, Inc., Brooklyn, N. Y. Synthetic petrolatum and petroleum jelly. 176,315; Nov. 20; Serial No. 179,063; published Aug. 14, 1923.

Smith, Effie L., Corvallis, Oreg. Preparation for the treatment of cancer. 176,226; Nov. 20; Serial No. 177,203; published Aug. 7, 1923.

Societeit voor Chemische Industrie "Katwijk" Katwijk aan Zee, Netherlands. Caffeine, theobromine, and formaldehyde preparations. 176,351; Nov. 20.

Solax Drug Company, Inc., Philadelphia, Pa. Vegetable laxative tablets. 176,324; Nov. 20; Serial No. 180,455; published Sept. 4, 1923.

Sportmox Company, The, Boston, Mass. Sport footwear. 176,272; Nov. 20; Serial No. 177,413; published Aug. 7, 1923.

Stauffer Chemical Company of Texas, Houston, Tex. Rubber-compounding sulphur. 176,372–3; Nov. 20.

Stein, A., & Company, Chicago, Ill. Household apron and girdle supporters. 176,143; Nov. 20; Serial No. 183,003; published Sept. 11, 1923.

Stein, A., & Company, Chicago, Ill. Arm bands and suspenders. 176,206; Nov. 20; Serial No. 179,118; published Sept. 4, 1923.

Steiner, Clarence S., Asbury, Park, N. J. Sleeping garments, underwear, shirt waists, and bloomers. 176,208; Nov. 20; Serial No. 180,309; published Sept. 4, 1923.

Sterling Milk Company, Oklahoma, Okla. Preserved milk, cream, and milk-chocolate drinks. 176,287; Nov. 20; Serial No. 178,297; published Sept. 4, 1923.

Sterling Underwear Company, Chicago, Ill. Underwear for women. 176,260; Nov. 20; Serial No. 180,561; published Sept. 11, 1923.

Stocking Shops of America, Inc., The, Reading, Pa. Hosiery. 176,150; Nov. 20; Serial No. 171,669; published Aug. 28, 1923.

Sturges, Preston, Brooklyn, N. Y. Face powders, rouges. 176,220; Nov. 20; Serial No. 176,579; published Aug. 7, 1923.

Su-Dex Wood Curing Company, Inc., Coscob, Conn., and Brooklyn, N. Y. Carbohydrates and chemicals used in the treatment, processing, etc., of wood, lumber, etc. 176,114; Nov. 20; Serial No. 164,608; published Aug. 14, 1923.

Sunman & Hewson, Luton, England. Hats for women and children. 176,264; Nov. 20; Serial No. 177,146; published July 24, 1923.

Sunny Susan Laboratories, Inc., Buffalo, N. Y. Freckle-removing or bleaching cream. 176,236; Nov. 20; Serial No. 164,567; published Aug. 7, 1923.

Superior Garment Company, Inc., New York, N. Y. Ladies' coats. 176,252; Nov. 20; Serial No. 181,356; published Sept. 11, 1923.

Taggart Baking Company, Indianapolis, Ind. Sugar wafers. 176,330; Nov. 20.

Tecc Products Company. (See Mann, Arthur B.)

Theme Hosiery Company. (See Thieme Brothers Company.)

Thieme Brothers Company, assignors to Theme Hosiery Company, Fort Wayne, Ind. Hosiery. 176,259; Nov. 20; Serial No. 180,632; published Sept. 11, 1923.

Tioga Mill & Elevator Co., Waverly, N. Y. Feed. 176,341; Nov. 20.

Tobacco Products Corporation, New York, N. Y. Cigarettes. 176,134; Nov. 20; Serial No. 183,459; published Sept. 11, 1923.

Tosse, E., & Co., Inc., New York, N. Y. Preparation for syphilis and diseases of the skin. 176,176–7; Nov. 20; Serial Nos. 178,577–8; published Aug. 7, 1923.

Turitto, Vincenzo, Washington, D. C. Tonic. 176,346; Nov. 20.

Turrell Shoe Co., Seattle, Wash. Leather shoes. 176,348; Nov. 20.

Union Pharmacal Company, Kansas City, Mo. Face, finishing, bleaching, cold, vanishing, almond, lemon, and cocoa-butter creams, etc. 176,271; Nov. 20; Serial No. 177,414; published Aug. 14, 1923.

United Hosiery Mills Corporation, Chattanooga, Tenn. Hosiery. 176,155; Nov. 20; Serial No. 169,428; published June 5, 1923.

United States Playing Card Company, The, East Norwood, Cincinnati, Ohio. Playing cards. 176,213; Nov. 20; Serial No. 178,536; published Aug. 28, 1923.

United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Rubber heels. 176,148; Nov. 20; Serial No. 171,880; published July 31, 1923.

Unrub H. P. Co., The, Chanute, Kans. Medical preparation for colds, cuts, burns, etc. 176,194; Nov. 20; Serial No. 155,940; published July 10, 1923.

Vajda, Joseph, New York, N. Y. Medicinal liquid for lungs and kidney and for healing wounds and sores. 176,281; Nov. 20; Serial No. 178,886; published Aug. 14, 1923.

Valona Manufacturing Co. (See Wojciechowski, Roman H.)

Vanitie Hat Co. (See Land, Julius.)

Vinkemulder, Henry J., doing business as The Vinkemulder Co., Grand Rapids, Mich. Bananas. 176,108; Nov. 20; Serial No. 160,168; published Aug. 21, 1923.

W. S. D. Underwear Co. Inc., New York, N. Y. Brassières. 176,218; Nov. 20; Serial No. 178,586; published Aug. 28, 1923.

Wahoo Novelty Works, Wahoo, Nebr. Toy dogs. 176,246; Nov. 20; Serial No. 182,843; published Sept. 11, 1923.

Ward Baking Company, New York, N. Y. Cake. 176,368; Nov. 20.

Washington Barber Supply Co. (See Selkow, Irving.)

Weber & Heilbroner, New York, N. Y. Men's suits. 176,241; Nov. 20; Serial No. 182,690; published Sept. 4, 1923.

Wedge Heel & Rubber Co. Inc., Fort Wayne, Ind. Rubber heels. 176,152; Nov. 20; Serial No. 170,916; published July 31, 1923.

West, Ernest G., doing business as Hutchings Medicine Co., Toronto, Ontario, Canada. Toilet preparation. 176,347; Nov. 20.

Western Chemical Co., Inc., The, Seattle, Wash. Double-acting alkaline hypochlorite solution. 176,314; Nov. 20; Serial No. 179,119; published Aug. 28, 1923.

Western Fancy Goods Company, San Francisco, Calif. Garters, belts, neckties, boudoir caps, etc. 176,149; Nov. 20; Serial No. 171,561; published Aug. 28, 1923.

White Stokes Co., Inc., Chicago, Ill. Semiprepared fondant and base in candy, ice cream, etc. 176,215; Nov. 20; Serial No. 178,791; published Aug. 28, 1923.

White Tar Company, The, New York, N. Y. Liquid insecticide. 176,303; Nov. 20; Serial No. 179,287; published July 31, 1923.

Whitman, Stephen F., & Son, Philadelphia, Pa. Instantaneous chocolate, marshmallow whip, flash chocolate, jiffy milk cocoa, etc. 176,126; Nov. 20; Serial No. 174,419; published Aug. 21, 1923.

Wigart, John, doing business as The Glirr Mfg. Co., Brooklyn, N. Y. Artificial minnows. 176,247; Nov. 20; Serial No. 182,846; published Sept. 11, 1923.

Wilhelm Oil Company, St. Paul, Minn. Insecticides. 176,370; Nov. 20.

Willits, Henry M., Incorporated, Birdsboro, Pa. Children's shoes. 176,331; Nov. 20.

Winberg, W. Wm., trading as The Winberg Druggists Supply Co., Wilmette, Ill. Membrane antiseptic. 176,192; Nov. 20; Serial No. 145,381; published Aug. 1, 1922.

Wojciechowski, Roman H., doing business as Valona Manufacturing Co., Brooklyn, N. Y. Liquids and ointments for scalp and skin. 176,310; Nov. 20; Serial No. 179,123; published Aug. 14, 1923.

Wolf Milling Company, Ellinwood, Kans. Flour, corn meal, corn chop, wheat feeds. 176,339; Nov. 20.

Wood & Smith, Inc., Lewiston, Me. Children's leather shoes. 176,207; Nov. 20; Serial No. 179,077; published Aug. 28, 1923.

Woodard, Princetta, Chattanooga, Tenn. Hair grower, pressing oil, temple grower, and corn salve. 176,174; Nov. 20; Serial No. 178,486; published Aug. 28, 1923.

Yagyu, James R., doing business as Ohio Medicine Co., Los Angeles, Calif. Vaginal suppositories. 176,320; Nov. 20; Serial No. 179,022; published Aug. 28, 1923.

Yates, Claude R., doing business as Alexandria Coffee Company, Alexandria, Va. Coffee. 176,145; Nov. 20; Serial No. 173,458; published Sept. 4, 1923.

Youngsters Novelty Co. (See Rubinsky, Benjamin.)

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Aunt Betty's Products Co., Los Angeles, Calif. Aunt Betty's. For Orange Marmalade. 26,545; Nov. 20.

Austin, Nichols & Co. Inc., Brooklyn, N. Y. Sunbeam. For Cigars. 26,546; Nov. 20.

Bunte Brothers, Chicago, Ill. Bunte Pollyanna Chocolates. For Chocolates. 26,547; Nov. 20.

Chandler River Co-Operative Canning Association, Jonesboro, Me. Hannah Weston Brand. For Blueberries. 26,548; Nov. 20.

Circus Sally Company, The, Chicago, Ill. Circus Sally. For Candy. 26,549; Nov. 20.

Clendenning, S. G., Coshocton, Ohio. Lion Puncture Patch. For a Patch for Repairing Articles Made of Rubber. 26,550; Nov. 20.

Exeter Orange Growers Association, Exeter, Calif. Exeter. For Fresh Grapes. 26,551; Nov. 20.

Exeter Orange Growers Association, Exeter, Calif. Exeter. For Oranges. 26,552; Nov. 20.

Free & Klinck, Inc., Brooklyn, N. Y. Shell. For Canned Peas. 26,553; Nov. 20.

Free & Klinck, Inc., Brooklyn, N. Y. Sundew. For Canned Succotash. 26,554; Nov. 20.

French Sardine Co., Inc., East San Pedro, Calif. Belle Isle. For Canned Tunna. 26,555; Nov. 20.

Goodman, A., & Sons, Inc., New York, N. Y. Goodman's. For Matzoths. 26,556; Nov. 20.

Green & Green Company, The, Dayton, Ohio. Always Good Any Time—Any Place. For Ginger Snaps. 26,557; Nov. 20.

Green & Green Company, The, Dayton, Ohio. Unrivaled Excellence. For Crackers. 26,558; Nov. 20.

Hanzel, Stanley F., doing business as S. F. Hanzel Card Co., Chicago, Ill. Green Club Playing Cards. For Playing Cards. 26,559; Nov. 20.

Hanzel, Stanley F., doing business as S. F. Hanzel Card Co., Chicago, Ill. Blue Spade Playing Cards. For Playing Cards. 26,560; Nov. 20.

Hanzel, Stanley F., doing business as S. F. Hanzel Card Co., Chicago, Ill. Golden Diamond Playing Cards. For Playing Cards. 25,561; Nov. 20.

Henard Mayonnaise Company, Nashville, Tenn. Maleto. For Mayonnaise Salad Dressing. 26,562; Nov. 20.

Hinko, Mathias, Cicero, Ill. Plzenske. For Malt Extract. 26,563; Nov. 20.

Hundemann, Charles H., New York, N. Y. La Divinidad. For Cigars. 26,564; Nov. 20.

Huyler's, New York, N. Y. Assorted Nut Chocolates. For Assorted Nut Chocolates. 26,565; Nov. 20.

Huyler's, New York, N. Y. Nut and Fruit Chocolates. For Nut and Fruit Chocolates. 26,566; Nov. 20.

Huyler's, New York, N. Y. Assorted Chocolates All cream centers. For Assorted Chocolates. 26,567; Nov. 20.

Johnston, R. F., Paint Company, The, Cincinnati, Ohio. Grounder. For Ready-Mixed Paints. 26,568; Nov. 20.

Kellogg Company, Battle Creek, Mich., Albran. For Cereal Breakfast Food. 26,569; Nov. 20.

Krank, Alfred J., St. Paul, Minn. Solidified Brilliantine. For a Hair Fixative. 26,570; Nov. 20.

Meese, Gus, doing business as The Meese Broom Co., Spokane, Wash. Meese. For Brooms. 26,571; Nov. 20.

Menasha Printing and Carton Company, Menasha, Wis. Ice Cream. For Ice Cream. 26,572; Nov. 20.

Menasha Printing and Carton Company, Menasha, Wis. Fresh Eggs. For Eggs. 26,573; Nov. 20.

Menge, Fred H., San Francisco, Calif. F H M Ever Ease Preparation. For a Massaging Preparation. 26,574; Nov. 20.

Merrill Candy Company, Merrill, Wis. Merrillite College Special. For Candy. 26,575; Nov. 20.

Mills, James, Orchards Corporation, Hamilton City, Calif. Mt. Lassen. For Fresh Pears. 26,576; Nov. 20.

Mills, James, Orchards Corporation, Hamilton City, Calif. Windmill. For Oranges. 26,577; Nov. 20.

Mills, James, Orchards Corporation, Hamilton City, Calif. Mill On the Floss. For Oranges. 26,578; Nov. 20.

Milwaukee Paper Box Company, Milwaukee, Wis. Everstyle. For Hosiery. 26,579; Nov. 20.

Milwaukee Paper Box Company, Milwaukee, Wis. College Days. For Chocolates. 26,580; Nov. 20.

Morrell, John, & Co., Ottumwa, Iowa. Yorkshire Farm. For Peanut Butter. 26,581; Nov. 20.

Picken Chemical Company, New York, N. Y. Star. For Leather Dressing. 26,582; Nov. 20.

Pioneer Products Co., The, Dayton, Ohio. Chex—Does More Than Soap. For Boxes for Soap. 26,583; Nov. 20.

Root, A. I., Company, The, Medina, Ohio. Pure Honey. For Honey. 26,584; Nov. 20.

Sanitary Ice Cream Co., San Diego, Calif. Hage's Ice Cream. For Ice Cream. 26,585; Nov. 20.

Shaw, J. G., doing business as J. G. Shaw Company, San Jose, Calif. Sunny Jim. For Prunes. 26,586; Nov. 20.

Spiess, A. S., doing business as A. S. Spiess Sales Co., New Orleans, La. Best Brand. For Creamery Butter. 26,587; Nov. 20.

Tacoma Biscuit & Candy Company, Tacoma, Wash. Windsor Chocolates. For Candy. 26,588; Nov. 20.

Touchet Valley Apple Co., Waitsburg, Wash. Red Wing. For Apples. 26,589; Nov. 20.

Touchet Valley Apple Co., Waitsburg, Wash. Blue Wing. For Apples. 26,590; Nov. 20.

Tri-Me-Laboratories, Inc., Indianapolis, Ind. He-Pa-Co. For a Headache, Cold and Pain Remedy. 26,591; Nov. 20.

United States Distribution Co., Saginaw, Mich. Liberty Patch. For Automobile Tube Patches. 26,592; Nov. 20.

Walker, G. E., Company, Inc., St. Louis, Mo. G. W. Five Circuit Switch Plug. For Electrical Plugs. 26,593; Nov. 20.

Weisbrod & Hess Brewing Company, doing business as Weisbrod & Hess, Philadelphia, Pa. Peacock Pale Amber Sparkling Ginger Ale. For Ginger Ale. 26,594; Nov. 20.

Widdis, Albert, Tawas City, Mich. Bran Candy. For Candy. 26,595; Nov. 20.

Wish, Fred A., Inc., New York, N. Y. Uncle Wiggily Animal Crackers. For Cracker Boxes. 26,596; Nov. 20.

Wish, Fred A., Inc., New York, N. Y. Uncle Wiggily Toy Balloons. For Balloon Boxes. 26,597; Nov. 20.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Buettner, T., & Co., Inc., Chicago, Ill. Embroider & Crochet with Nun's Boilproof. For Threads, Yarns, and Cottons. 6,971; Nov. 20.

Canada Dry Ginger Ale, Inc., New York, N. Y. What I Need Today. For Ginger Ale. 6,972; Nov. 20.

Cluett, Peabody & Co., Inc., Troy, N. Y. Collars Outside! For Gordon an Arrow Shirt. 6,973; Nov. 20.

Cluett, Peabody & Co., Inc., Troy, N. Y. That First Shirt Washing. For Arrow Shirts. 6,974; Nov. 20.

Cluett, Peabody & Co., Inc., Troy, N. Y. Along The French Highways. For Arrow Shirts. 6,975; Nov. 20.

Cluett, Peabody & Co., Inc., Troy, N. Y. The Shirt Off Your Back. For Arrow Shirts. 6,976; Nov. 20.

Cluett, Peabody & Co., Inc., Troy, N. Y. The Issue Shirt. For Arrow Shirts. 6,977; Nov. 20.

Cluett, Peabody & Co., Inc., Troy, N. Y. Galloping Shirts. For Arrow Shirts. 6,978; Nov. 20.

Cluett, Peabody & Co., Inc., Troy, N. Y. Gordon, an Arrow Shirt—A Shirt that is tailored for service. For Arrow Shirts. 6,979; Nov. 20.

Cluett, Peabody & Co., Inc., Troy, N. Y. Arrow Shirts—Merit in Arrow Shirts, etc. For Arrow Shirts. 6,980; Nov. 20.

Cluett, Peabody & Co.,, Inc., Troy, N. Y. Tuxara Arrow Collars. For Arrow Collars. 6,981; Nov. 20.

Cluett, Peabody & Co., Inc., Troy, N. Y. Tabhurst Arrow Wing Collars. For Arrow Collars. 6,982; Nov. 20.

Cluett, Peabody & Co., Inc., Troy, N. Y. Arrow Shirts—What is universally accepted, etc. For Arrow Shirts. 6,983; Nov. 20.

Cluett, Peabody & Co., Inc., Troy, N. Y. Par Arrow Collars. For Arrow Collars. 6,984; Nov. 20.

Cluett, Peabody & Co., Inc., Troy, N. Y. Arrow Shirts—The Arrow Shirts are distinguished, etc. For Arrow Shirts. 6,985; Nov. 20.

Cluett, Peabody & Co., Inc., Troy, N. Y. Arrow Shirts. For the most formal, etc. For Arrow Shirts. 6,986; Nov. 20.
Coty, Inc., Wilmington, Del., and New York, N. Y. L'Origan De Coty. For Perfumes. 6,987; Nov. 20.
Coty, Inc., Wilmington, Del., and New York, N. Y. Les Poudres De Coty. For Powders. 6,988; Nov. 20.
Coty, Inc., Wilmington, Del., and New York, N. Y. Eaux De Toilette De Coty. For Perfumes and Toilet Water. 6,989; Nov. 20.
Coty, Inc., Wilmington, Del., and New York, N. Y. Les Parfums De Coty. For Perfumes. 6,990; Nov. 20.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Claim Check. For Goodyear Wingfoot Soles and Heels. 6,991; Nov. 20.
King, Frank O., Chicago, Ill. Skeezix. For Dolls. 6,992; Nov. 20.
King, Frank O., Chicago, Ill. Gasoline Alley Bunch. For Dolls. 6,993; Nov. 20.
Kirk, James S., & Company, Chicago, Ill. As Invigorating as a Breath of Mountain Air. For Soap. 6,994; Nov. 20.
Martin Varnish Company, Chicago, Ill. Martin's 100% Pure. For Varnishes. 6,995; Nov. 20.
Mathews, Frederick C., Company, Detroit, Mich. A Refreshing—Delicious—Satisfying Dish. For Ice Cream. 6,996; Nov. 20.
Mathews, Frederick C., Company, Detroit, Mich. From Blossom to Tasty Fruit. For Ice Cream. 6,997; Nov. 20.
Mathews, Frederick C., Company, Detroit, Mich. Your Dream. For Ice Cream. 6,998; Nov. 20.
Mathews, Frederick C., Company, Detroit, Mich. The Height of Delight. For Ice Cream. 6,999; Nov. 20.
Mathews, Frederick C., Company, Detroit, Mich. The Choice of Particular People. For Ice Cream. 7,000; Nov. 20.
Mathews, Frederick C., Company, Detroit, Mich. The Extreme of Excellence. For Ice Cream. 7,001; Nov. 20.
Mathews, Frederick C., Company, Detroit, Mich. Always Pleasing. For Ice Cream. 7,002; Nov. 20.
Mathews, Frederick C., Company, Detroit, Mich. A Slice of Deliciousness. For Ice Cream. 7,003; Nov. 20.
Mathews, Frederick C., Company, Detroit, Mich. A Delight to All. For Ice Cream. 7,004; Nov. 20.
Mathews, Frederick C., Company, Detroit, Mich. Real Crushed Fruit Flavor. For Ice Cream. 7,005; Nov. 20.
Mathews, Frederick C., Company, Detroit, Mich. The Ideal Dessert. For Ice Cream. 7,006; Nov. 20.
Mathews, Frederick C., Company, Detroit, Mich. Two Tasty Dishes. For Ice Cream. 7,007; Nov. 20.
Mathews, Frederick C., Company, Detroit, Mich. Our Strawberry Soda. For Ice Cream. 7,008; Nov. 20.
Mathews, Frederick C., Company, Detroit, Mich. Hawaiian Pineapple. For Ice Cream. 7,009; Nov. 20.
Nu Bone Corset Co., The, Los Angeles, Calif. Introducing The "Corset-less" Corset Model Nu West. For Corsets and Similar Garments. 7,010; Nov. 20.
Postum Cereal Company, Inc., Battle Creek, Mich., and New York, N. Y. Post's Bran Flakes. For Breakfast Food (Cereal). 7,011; Nov. 20.
Sperry Flour Company, San Francisco, Calif. To Be Sure Use Sperry Drifted Snow Flour. For Wheat Flour. 7,012; Nov. 20.
Swift Specific Company, Atlanta, Ga. S. S. S. Nature's Blood Purifier. For A Medicinal Preparation—Namely, a Tonic for the Blood. 7,013; Nov. 20.
Vulcanized Rubber Company, Inc., The, Portland, Me., and New York, N. Y. Ajax Brand Perfection In Men's Dressing Combs. For Combs. 7,014; Nov. 20.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Adsit and Rugg Inc., Burlington, Va. Sheep-lined coats and vests, fur coats, hosiery, etc. 174,421; Nov. 20.
Allied Packers, Incorporated, Chicago, Ill. Fresh meats. 163,309; Nov. 20.
Alopex Products Company. (See Harris, Irwin J.)
American Chemical Paint Company, Philadelphia, Pa. Water-soluble white powder for removing oil and grease, etc. 181,235; Nov. 20.
American Hone Co., Olean, N. Y. Hone. 185,237; Nov. 20.
American Wheel Company, Philadelphia, Pa. Automobile steering-post locks. 145,000; Nov. 20.
Americanese Society of New York. (See Boals, Clarence P.)
Anderson, Embry E., Memphis, Tenn. Oats for use as stock feed. 175,835; Nov. 20.
Anderson, Embry E., Memphis, Tenn. Oats for use as stock feed. 175,837; Nov. 20.
Ansehl, David, doing business as The Beauty House, St. Louis, Mo. Toilet preparation for the eyes. 183,811; Nov. 20.
Archbold-Giger & Co., Paterson, N. J. Wheat flour. 181,808; Nov. 20.
Baca, Pablo, doing business as La Victoria Packing Co., Los Angeles, Calif. Canned chili. 179,349; Nov. 20.
Bacon, Charles F., trustee, Toledo, Ohio. Mirrored lenses as light transmitting and reflecting devices. 179,024; Nov. 20.
Ballard & Ballard Company, Louisville, Ky. Wheat flour. 159,337; Nov. 20.
Bamberger, L., & Co. (See Munzer, Ida, Inc.)
Baskin Brothers, New York, N. Y. Finger rings, bar and scarf pins, earrings. 184,230; Nov. 20.
Bass, G. H., & Co., Wilton, Me. Footwear. 180,354; Nov. 20.
Battle Creek Food Company, The, Battle Creek, Mich. Confection. 181,239; Nov. 20.
Baumgarten, Emanuel, doing business as Royal Velvet Products Company, Washington, D. C. Rubber-stamp pads and rubber-stamp-pad inks. 167,223; Nov. 20.
Baylis, A. W., Co., New York, N. Y. Table damasks. 184,632; Nov. 20.
Bear Brand Hosiery C. (See Paramount Knitting Co.)
"Bear Cat" Products Co., Detroit, Mich. Finishing or polishing material for painted, varnished, or enameled surfaces. 186,210; Nov. 20.
Bear Mill Manufacturing Company, Inc., New York, N. Y. Cotton cloth. 185,553; Nov. 20.
Beaton, J. R., Co. Inc., New York, N. Y. Laundry and toilet soap. 185,405; Nov. 20.
Beauty House, The. (See Ansehl, David.)
Bedsole-Colvin Drug Co., Mobile, Ala. Insect destroyer. 183,329; Nov. 20.
Beesemyer-Waggoner, Inc., Los Angeles, Calif. Canned fruits and vegetables. 185,650; Nov. 20.
Behlen, H., & Bro., New York, N. Y. Brushes. 185,283; Nov. 20.
Berger, Isodor, doing business as Eclipse Knitting Mills, Newark, N. J. Sweaters. 181,719; Nov. 20.
Bergfors, Gustav A., Braintree, Mass. Lubricating oils. 186,212; Nov. 20.
Berman, Louis C., Chicago, Ill. Lifting jacks. 185,554; Nov. 20.
Bertmann-Dunlap Company, The, Cincinnati, Ohio. Leather boots and shoes. 181,006–7; Nov. 20.
Bettmann-Kleinhauser Clothing Company, St. Louis, Mo. Suits and overcoats for children and men. 183,792; Nov. 20.
Blue Ribbon Battery Company, Indianapolis, Ind. Electric storage batteries and parts thereof. 179,652; Nov. 20.
Boals, Clarence P., doing business as The Americanese Society of New York, Buffalo, N. Y. Instruction books. 183,793; Nov. 20.
Bourbon-Ola Company, Inc., The, Paris, Ky. Sirup for making of beverages. 186,101; Nov. 20.
Bradley, Carrie E., Cincinnati, Ohio. Monthly publication. 185,407; Nov. 20.
Bradner Condensed Milk Co., assignor to United Dairy Association of Washington, Seattle, Wash. Canned milk. 153,869; Nov. 20.
Brawner, Henry N., jr., doing business as Chestnut Farms Dairy, Washington, D. C. Butter. 161,348; Nov. 20.
British Cellulose and Chemical Manufacturing Company, Limited, London, England. Fabrics made from cellulose derivatives. 186,313; Nov. 20.
Brooks, William H., San Francisco, Calif. Health foods. 178,159; Nov. 20.
Brownell, Leigh E., assignor, by mesne assignments, to Brownell Wildfire Battery Co., Inc., doing business as Wildfire Auto Service Co., St. Paul, Minn. Electrolyte for storage batteries. 164,302; Nov. 20.
Brownell Wildfire Battery Co. (See Brownell, Leigh E., assignor.)
Buffalo Chandelier Corporation, Buffalo, N. Y. Electric-lighting fixtures and hangers, etc. 183,357; Nov. 20.
Burnett, Joseph, Co., Boston, Mass. Flavoring extracts for foods. 164,746; Nov. 20.
Busse Baking Company, South Bend, Ind. Bread and cake. 181,557; Nov. 20.
Cabell Corporation of Baltimore City, The, Baltimore, Md. Imitation vanilla. 183,194; Nov. 20.
California Crushed Fruit Company, Los Angeles, Calif. Beverages, concentrates, and compounds for making the same. 186,349; Nov. 20.
California Fruit Growers Exchange, Los Angeles, Calif. Beverage-dispensing fountains. 184,064; Nov. 20.
Calvork Manufacturing Co., The, Los Angeles, Calif. Ladies' and children's hats. 177,828; Nov. 20.
Can Vas Bak Products Co. (See Hostetter, David B.)
Carmel, Albert, doing business as The Mount Carmel Co., Baltimore, Md. Snuff used for medicinal purposes. 183,818; Nov. 20.

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Chase Candy Co., St. Joseph, Mo. Candy. 177,474; Nov. 20.
Chestnut Farms Dairy. (See Brawner, Henry N., jr.)
Chicago Radio Apparatus Company, Inc., Chicago, Ill. Radio receiving and transmitting apparatus. 165,227; Nov. 20.
Choate, Nellita N., Los Angeles, Calif. Pen name or nom de plume on newspaper articles. 161,967; Nov. 20.
City Electric Company, Syracuse, N. Y. Electrical apparatus—namely, lamps, motors, switches, etc. 182,399; Nov. 20.
Cleo Products Co. (See Stoecker, William F.)
Clik & Cie., Inc., New York, N. Y. Shaving soaps and creams. 181,247; Nov. 20.
Cohen, Montgomery B., doing business as Radio Equipment Company, Boston, Mass. Fuses, protective devices for radio apparatus, adapters, loud speakers, etc. 183,195; Nov. 20.
Cook Electric Company, Chicago, Ill. Electrical and telephone apparatus. 152,785; Nov. 20.
Coty, Inc., Wilmington, Del., and New York, N. Y. Perfumes, toilet water, face powder, etc. 180,101; Nov. 20.
Coulapides, A., Inc., New York, N. Y. Cigarettes and tobacco. 184,392; Nov. 20.
Cross, Charles, San Francisco, Calif. Prints and publications. 177,476; Nov. 20.
Dayton Engineering Laboratories Company, The, Dayton, Ohio. Electrical starting, lighting, and ignition apparatus and parts thereof. 181,942; Nov. 20.
Dayton Photo Products Company, The, Dayton, Ohio. Moving-picture machines, light-sensitized paper, etc., and celluloid. 165,785; Nov. 20.
Deene Plaster Co., The, Yonkers, N. Y. Adhesive tapes. 170,971; Nov. 20.
Delaware Garment Company, The, Delaware, Ohio. Play and school suits for boys and girls, and ladies' and men's knicker and outing suits. 185,364; Nov. 20.
Dampster, James C., Toronto, Ontario, Canada. Bread. 182,704; Nov. 20.
Denison Bottling Works. (See Mitchell, James A.)
Denver Tent & Awning Company, The, Denver, Colo. Tents. 184,963; Nov. 20.
Devers, Murrel O., doing business as Dim-Brite Mfg. Company, Dayton, Ohio. Switch for dimming the electric headlights of automobiles and motor cycles. 185,247; Nov. 20.
Dextro Products Inc., Buffalo, N. Y. Glues or pastes. 186,220; Nov. 20.
Dim-Brite Manufacturing Company. (See Devers, Murrel O.)
Dodge, F. W., Corporation, New York, N. Y. Monthly magazine. 185,570; Nov. 20.
Dodge, F. W., Corporation, New York, N. Y. Weekly magazine. 185,571–2; Nov. 20.
Domestic Devices Corporation, New York, N. Y. Blade sharpeners. 184,024; Nov. 20.
Drew, E. F., & Co., Inc., New York, N. Y., and doing business in Boston, Mass., as J. A. Morse. Nut butter. 163,617; Nov. 20.
Druggists' Supply Corporation, New York, N. Y. Fountain pen. 186,272; Nov. 20.
Dunlop Milling Co., Clarksville, Tenn. Self-rising flour. 160,592; Nov. 20.
Eckman Chemical Company, Omaha, Nebr. Insecticide. 159,504; Nov. 20.
Eclipse Knitting Mills. (See Berger, Isodor.)
Eggimann, Charles F., Springfield, Oreg. Cough drops. 183,445; Nov. 20.
Electrical Appliance Manufacturing Company, The, Waterbury, Conn. Oven thermometers. 186,274; Nov. 20.
Elite Fur Shop, Inc., Kansas City, Mo. Fur coats, capes, neck pieces, collars, and jackets. 183,447; Nov. 20.
Ely & Walker Dry Goods Company, St. Louis, Mo. Men's neckties. 184,440; Nov. 20.
Engineer Company, The, New York, N. Y. Oil burners, balanced draft equipment for furnaces, etc. 181,882; Nov. 20.
Erdmann, Emil W., St. Louis, Mo. Automobile bodies, tops, and wheels. 154,016; Nov. 20.
Evansville Tool Works, Evansville, Ind. Hammers, hatchets, axes, and wedges. 180,423; Nov. 20.
Excel Electric Co., The, Muncie, Ind. Electric cookers. 184,716; Nov. 20.
Fansteel Products Company, Inc., North Chicago, Ill. Molybdenum and tantalum. 181,521; Nov. 20.
Farmers Milling Co., Inc., Weyers Cave, Va. Plain wheat flour and self-rising wheat flour. 177,965; Nov. 20.
Farrel Foundry & Machine Company, Ansonia, Conn., and Buffalo, N. Y. Gear-cutting machines and parts thereof. 185,212; Nov. 20.
Financier Publishing Co., The, New York, N. Y. Financial magazine. 184,903; Nov. 20.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 185,114; Nov. 20.
Frazier, John L., Washington, D. C. Daily publication. 184,129; Nov. 20.
Friedman Bros. & Sons Neckwear Co., Inc., New York, N. Y. Ties and cravats. 185,290; Nov. 20.
Froehlich, Robert M., New York, N. Y. Raw materials and essential oils for manufacturing hair tonics, etc. 179,529; Nov. 20.
Fulton Bag & Cotton Mills, Atlanta, Ga. Waterproof duck and tarpaulins. 184,545; Nov. 20.
Gem Hammock & Fly Net Company, The, Milwaukee, Wis. Brooms and mops. 138,557; Nov. 20.
Gibson, Geo. R., Co., New York, N. Y. Toothbrushes. 184,337; Nov. 20.
Giguet, Julien, Lyon, France. Hair nets. 180,176–7; Nov. 20.
Glauber, M., & Company, New York, N. Y. Cleaning and disinfectant preparation. 183,829; Nov. 20.
Globe Art Mfg. Co., Newark, N. J. Radio receiving sets. 168,034; Nov. 20.
Gorham Manufacturing Company, Providence, R. I. Crockery and porcelain. 152,251; Nov. 20.
Gracenet Company, Inc., The, New York, N. Y. Hair nets. 179,147; Nov. 20.
Grasselli Chemical Company, The, Cleveland, Ohio. Zinc oxide. 186,228; Nov. 20.
Graves Bros., Petersburg, Va. Greaseless cold cream and hair dressing. 179,198; Nov. 20.
Grebe, A. H., & Co., Inc., Richmond Hill, N. Y. Radio receiving apparatus of the so-called cabinet type. 165,375; Nov. 20.
Greene, C. H., Kansas City, Kans. Liniment. 175,488; Nov. 20.
Greever, William, doing business as Wundamova Company, Knoxville, Tenn. Cleansing preparation. 185,579; Nov. 20.
Greist Manufacturing Co., New Haven, Conn. Portable electric lamps. 180,978; Nov. 20.
Grelck, William P. M., St. Paul, Minn. Bread. 162,815; Nov. 20.
Griscom-Russell Company, The, New York, N. Y. Condensers, heat exchangers, coolers, and dephlegmators. 178,100; Nov. 20.
Harris, Irwin J., doing business as Alopex Products Company, St. Louis, Mo. Preparation for growing hair and eradicating dandruff. 183,830; Nov. 20.
Harrison, Edgar P., & Son, Newark, N. J. Cream malted chocolate. 182,147; Nov. 20.
Harvey Oil Co., The, Cleveland, Ohio. Lubricants. 184,029; Nov. 20.
Hatjy, George, Bros., New York, N. Y. Shoe lacers. 184,402; Nov. 20.
Hayes-Meserole Mfg. Co., Inc., The, Milford, Conn. Barrettes. 184,968; Nov. 20.
Helbein-Stone Company, Inc, New York, N. Y. Watchcases. 156,791; Nov. 20.
Hellwig, Charles A., San Francisco, Calif. Cake. 181,988; Nov. 20.
Hisey, Milton E., Painesville, Ohio. Preparation for the treatment of pyorrhea. 181,341; Nov. 20.
Hochman & Wertheim, Brooklyn, N. Y. Bread. 176,079; Nov. 20.
Holbach, John, Company, Paterson, N. J. Corsets, brassières, bust supporters, etc. 181,025; Nov. 20.
Hood River Spray Company, Hood River, Oreg. Insecticide. 183,832; Nov. 20.
Hostetter, David B., doing business as Can Vas Bak Products Co., Indianapolis, Ind. Waterproofing, softening, and preserving preparation for leather. 185,251; Nov. 20.
House, Howard G., doing business as Sta-Put Mfg. Company, and formerly doing busines as Sta Put Patch Co., Toledo, Ohio. Tire-repair compounds, adhesives, reenforcements, etc. 186,232; Nov. 20.
Howlett & Hockmeyer Co., Inc., New York, N. Y. Corduroys, velveteens, and cotton piece goods. 184,855; Nov. 20.
Hudnut, Richard, New York, N. Y. Soap. 183,880; Nov. 20.
Hughes and Hancock, Milford Haven, Pembrokeshire, Wales. Solution, composition, or mixture for the removal or prevention of incrustation or corrosion in steam generators, etc. 178,667; Nov. 20.
Imperial Ice and Development Company, Riverside, Calif. Ice. 182,418; Nov. 20.
Indianapolis Saddlery Company, Indianapolis, Ind. Horse collars. 182,541; Nov. 20.
Jacobs Bros. Co., Inc., The, Brooklyn, N. Y. Weighing scales. 185,297; Nov. 20.
Joannes Bros. Co., Green Bay, Wis. Canned goods, cheese, cocoa, etc. 172,744; Nov. 20.
Johnson, William H., New York, N. Y., assignor to Tin Decorating Company of Baltimore, Baltimore, Md. Face powders and creams, perfumes, toilet waters, etc. 162,929; Nov. 20.
Kabley Company, The, New York, N. Y. Preparations for the treatment of corns, etc. 176,797; Nov. 20.
Kamion, Aaron, doing business as A. Kamion, New York, N. Y. Watchcases. 184,314; Nov. 20.
Karp, S., New York, N. Y. Ladies,' misses,' and children's coats, capes, wraps, mantles, etc. 183,156; Nov. 20.
Katz & Ogush, Inc., New York, N. Y. Finger rings, bar and scarf pins, bracelets, etc. 184,168; Nov. 20.

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Kelley Island Lime and Transport Company, Cleveland, Ohio. Hydrated lime for agricultural purposes. 151,128; Nov. 20.
Kentucky Independent Oil Company, The, Covington, Ky. Motor oil and gasoline. 184,286; Nov. 20.
Keystone Business Service Co. Inc., Scranton, Pa. Blank books. 185,082; Nov. 20.
King Features Syndicate, Inc., New York, N. Y. Cartoons. 185,468; Nov. 20.
King Milling Co., Lowell, Mich. Wheat flour. 182,755; Nov. 20.
Koppel, Jacob, New York, N. Y. Cigars, cigarettes, and smoking tobacco. 185,125; Nov. 20.
Korn Bros., New York, N. Y. Sweaters, cardigan jackets, scarfs, bathing suits, etc. 185,342; Nov. 20.
Kraft, J. L., & Bros. Co., Chicago, Ill. Cheese. 177,678; Nov. 20.
L. D. Caulk Company, The, Milford, Del. Medicated soap. 185,412; Nov. 20.
Lakeside Biscuit Co., The, Toledo, Ohio, and Detroit, Mich. Sugar wafers, cookies, biscuits. 182,313; Nov. 20.
Lau, H. P., Co., Lincoln, Nebr. Food-flavoring extracts, salad dressing, etc. 177,390; Nov. 20.
La Victoria Packing Co. (See Baca, Pablo.)
Lawson Manufacturing Company, Chicago, Ill. Garment-hanging fixtures for closets, etc. 180,186; Nov. 20.
Lay & Way Co., The, New York, N. Y. Girdles, corsets, and hip supporters. 175,502; Nov. 20.
Leather Mat Manufacturing Co., Inc., San Francisco, Calif. Baggage carrier for automobiles. 169,978; Nov. 20.
Levenson, Shevelove Co., Inc., Newark, N. J. Wheat flour. 161,929; Nov. 20.
Levinson & Shapiro, Inc., New York, N. Y. Hosiery. 159,802; Nov. 20.
Levy, Maurice, New York, N. Y. Powder puffs. 184,171; Nov. 20.
Lewis, Hubbard and Company, Charleston, W. Va. Coffee. 185,712; Nov. 20.
Liberty Gauge and Instrument Company, The, Cleveland, Ohio. Electric hot plates. 182,711–12; Nov. 20.
Lincoln Paint & Color Company, Lincoln, Nebr. Brushes. 182,978; Nov. 20.
Lindemann, Adolf D., & Son., New York, N. Y. Perfume, toilet water, sachet, cold cream, etc. 181,951; Nov. 20.
Linder Bros., New York, N. Y. Cloaks, coats, dresses, suits, and skirts. 185,084; Nov. 20.
Lonsdale Co., Providence, R. I. Cambrics and nainsooks. 185,714; Nov. 20.
Lord & Taylor, New York, N. Y. Suits, skirts, blouses, jacquettes, etc. 181,409; Nov. 20.
Louisville Cereal Mill Co., Louisville, Ky. Horse and mule feed. 181,291; Nov. 20.
Lucile Somarco Brassiere Co., New York, N. Y. Brassières. 176,560; Nov. 20.
Luckel, King & Cake Soap Co., Portland, Oreg. Soap powder. 186,145; Nov. 20.
McCreery, James, & Company, New York, N. Y. Leather gloves. 167,847; Nov. 20.
McDonagh, Wm., & Sons, New York, N. Y. Shaving-soap cream. 179,673; Nov. 20, 1923.
McKay, Edwin B., Chicago, Ill. Tire treads. 184,738; Nov. 20.
McLoughlin Textile Corporation, Utica, N. Y. Caps, sweaters, and underwear. 185,126; Nov. 20.
Mackechnie Bread Company, Los Angeles, Calif. Bread. 156,097; Nov. 20.
Maison Mendessolle, San Francisco, Calif. Perfume, talcum, sachet, and face powders. 183,841; Nov. 20.
Marion Tool Works, Inc., Marion, Ind. Steel tools. 184,946; Nov. 20.
Markwell Manufacturing Co., Inc., New York, N. Y. Hatchets, hammers, crate openers, etc. 185,372; Nov. 20.
Marshall, William E., Chicago, Ill. Artificial log for fireplaces. 182,979; Nov. 20.
Melody Piano Co., Inc., New York, N. Y. Pianos and phonographs. 185,606; Nov. 20.
Menley & James, Limited, New York, N. Y. Medicated soap. 185,607; Nov. 20.
Merrell, William S. Company, The, Cincinnati, Ohio. Nonalcoholic solution of the active medicinal principles of hydrastis canadensis. 182,834; Nov. 20.
Metro Chocolate Co., Inc., The, Brooklyn, N. Y. Milk chocolate, nuts, and caramel. 178,762; Nov. 20.
Metropole Drug Company, Inc., Pittston, Pa. General tonic. 151,279; Nov. 20.
Metropolitan Manufacturing Co., Chicago, Ill. Steam-pressure cookers. 168,541; Nov. 20.
Mignon Electric Manufacturing Corp., Rochester, N. Y. Radio receiving sets and parts thereof. 167,005; Nov. 20.
Miller & Canary, Green Island, N. Y. Aprons, skirts, and rompers. 183,753; Nov. 20.
Milwaukee Corrugating Company, Greenfield, Wis. Eaves trough and eave-trough drops, ends, and fittings, etc. 137,326; Nov. 20.
Mishawaka Woolen Mfg. Co., Mishawaka, Ind. Boots, shoes, and rubbers. 151,462; Nov. 20.
Missouri Farmers' Association, Columbia, Mo. Egg mash, scratch feed, etc. 174,911; Nov. 20.
Missouri Valley Creamery Company, Washington, Mo. Liquid maltless milk-chocolate beverage. 177,568; Nov. 20.
Mitchell, James A., doing business as Denison Bottling Works, Denison, Iowa. Beverages sold as soft drinks. 181,491; Nov. 20.
More-Jones Brass & Metal Co., St. Louis, Mo. Bronze bearings. 183,847; Nov. 20.
Morse, J. A. (See Drew, E. F., & Co. Inc.)
Moss-Schury Mfg. Co., Inc., Detroit, Mich. Radio and telephone apparatus. 183,119; Nov. 20.
Mount Carmel Co., The. (See Carmel, Albert.)
Munzer, Ida, Inc., New York, N. Y., assignor to L. Bamberger & Co., Newark, N. J. Brassières. 177,100; Nov. 20.
Mutual Oil Company, Kansas City, Mo. Sweeping compound. 184,141; Nov. 20.
National Compound Co., Inc., Boston, Mass. Safety brake dressing, fabric cleaner, liquid surface eradicator, etc. 179,311; Nov. 20.
National Compound Co., Inc., Boston, Mass. Liquid carbon remover for gasoline motors. 179,312; Nov. 20.
Nemo Hat Company, New York, N. Y. Ladies', misses', and children's hats and caps. 181,535; Nov. 20.
New Haven Clock Co., The, New Haven, Conn. Clocks. 184,747; Nov. 20.
New Zealand Co-operative Dairy Company, Limited, Hamilton, New Zealand. Butter and cheese. 168,335; Nov. 20.
Northern Paper Mills, Green Bay, Wis. Folded towels. 184,351; Nov. 20.
Northern Paper Mills, Green Bay, Wis. Toilet paper. 184,356; Nov. 20.
Obermayer, S., Co., The, Chicago, Ill. Furnace cement in laying up fire brick and kindred uses. 184,094; Nov. 20.
Order of Scottish Clans, Boston, Mass. Monthly publication. 186,924; Nov. 20.
Pal Radio Company, West Hoboken, N. J. Radio receiving apparatus and parts thereof. 183,537; Nov. 20.
Panther Rubber Manufacturing Company, Stoughton, Mass. Rubber heels. 173,780; Nov. 20.
Paramount Knitting Company, assignor to Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 172,292; Nov. 20.
Parch-O-Lite Co., Chicago, Ill. Electric lamps. 174,026; Nov. 20.
Peninsular Paint & Varnish Company, Hamtramck, Mich. Brushes. 182,992; Nov. 20.
Perceval, C., New York, N. Y. Cheese. 178,885; Nov. 20.
Perez, Marcelino, & Company, New York, N. Y. Cigars. 184,681–3; Nov. 20.
Perfection Products Company, New York, N. Y. Cereal food product. 177,989; Nov. 20.
Photodramatist Publishing Company, Hollywood, Calif. Monthly magazine. 179,550; Nov. 20.
Piper & Salerno Co., Inc., New York, N. Y. Topcoats and overcoats. 185,229; Nov. 20.
Pollard, Walter S., Hot Springs, Ark. Medicinal powder. 180,140; Nov. 20.
Porter-Seitz Shoe Stores Company, Wilmington, Del., and Pittsburgh, Pa. Leather shoes. 180,671; Nov. 20.
Portland Flour Mills Co., Portland, Oreg. Wheat flour. 182,179; Nov. 20.
Price Brothers, Frederick, Md. Water-circulation pumps for automobile engines. 184,755; Nov. 20.
Purity Cake Company, Chicago, Ill. Cake. 175,212; Nov. 20.
Radio Equipment Company. (See Cohen, Montgomery B.)
Radium Emanation Corporation, The, New York, N. Y. Radium. 183,890; Nov. 20.
Rauh, S., & Sons Fertilizer Company, Indianapolis, Ind. Tankage and fertilizer. 184,761; Nov. 20.
Rawles, Kate C., Fernley, Nev. Prepared textile stove polisher. 183,548; Nov. 20.
Reid, Murdoch & Co., Chicago, Ill. Canned fruits and fruit preserves, canned vegetables, etc. 163,176; Nov. 20.
Reliance Manufacturing Company, Chicago, Ill. Men's work shirts. 174,754; Nov. 20.
Rex-Oil Company Inc., The, Pittsburgh, Pa. Cleaner for satin footwear. 186,158; Nov. 20.
Reynolds Machine Company, The, Massillon, Ohio. Fabric-tire molds, cord-tire molds, solid cores, etc. 184,264; Nov. 20.
Riverside Manufacturing Company, Moultrie, Ga. Service covers for automobiles and parts thereof. 182,611; Nov. 20.
Rochelle, Henry S., doing business as H. S. Rochelle Company, New York, N. Y. Silk shirts. 176,572; Nov. 20.
Rodrigues, Manuel R., Brooklyn, N. Y. Electrical apparatus, machines, and supplies. 172,123; Nov. 20.

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Rose, Herman R., doing business as Shamrock Mfg. Co., Newark, N. J. Radio receiving sets and parts thereof. 182,847; Nov. 20.
Rosenberg, Henry, New York, N. Y. Pelts. 173,248; Nov. 20.
Roxana Petroleum Corporation, St. Louis, Mo. Lubricating oil. 185,991; Nov. 20.
Royal Card & Paper Company, New York, N. Y. Envelopes. 184,564; Nov. 20.
Sachnklian, Stephen H., Hartford, Conn. Insecticides. 183,165; Nov. 20.
Sampico Indian Medicine Co., Beloit, Wis. Medicines for disorders of the stomach, etc. 181,022; Nov. 20.
Schering & Glatz, Inc., New York, N. Y. Medicinal preparation used in the treatment of gout, rheumatism, etc. 182,839; Nov. 20.
Schneider & Hyman, New York, N. Y. Finger rings. 181,316; Nov. 20.
Schulz, Frank R., St. Louis, Mo. Luting composition. 183,859; Nov. 20.
Schwarz, Max, Textile Corporation, New York, N. Y. Voile in the piece. 185,797; Nov. 20.
Seaboard Rice Milling Co., Galveston, Tex. Rice. 156,603; Nov. 20.
Servus Rubber Company, Rock Island, Ill. Rubber and canvas footwear. 180,453; Nov. 20.
Seton Leather Co., Newark, N. J. White side leather, white kips, patent colt skins, etc. 177,202; Nov. 20.
Seymour & Peck Company, Chicago, Ill. Shipping drums. 181,701–2; Nov. 20.
Shamrock Mfg. Co. (See Rose, Herman R.)
Shearer & McCarthy Corp., The, Camden, N. J. Baskets. 184,217; Nov. 20.
Sheldon, Albert K., Company, Boston, Mass. Dry colors, paste and ready-mixed paints, varnishes, etc. 179,747; Nov. 20.
Silberstein, Joseph, New York, N. Y. Handkerchiefs. 185,847; Nov. 20.
Silver King Mineral Water Co., Inc., New York, N. Y. Mineral water. 186,759; Nov. 20.
Simmons, Felix, doing business as Styla Silk Hosiery Co., Worcester, Mass. Hosiery. 162,647; Nov. 20.
Simonds Saw and Steel Company, Fitchburg, Mass. Machine knives and shears. 183,066; Nov. 20.
Smith, Mrs. Elmira, doing business as Mrs. S. G. Smith, Harrison, Ga. Medicinal preparation for the treatment of pains, aches, etc. 182,881; Nov. 20.
Smith, Thomas E., doing business as T. E. Smith Medicine Co., Houston, Tex. Liver tablet. 181,541; Nov. 20.
Smoot, William T., Baltimore, Md. Malt sirup. 183,674; Nov. 20.
Société Pour La Fabrication De La Soie "Rhodiaseta," Paris, France. Artificial-silk fabric. 173,540; Nov. 20.
Solvora, Inc., New York, N. Y. Liquid dentifrice and also liquid cream dentifrice. 183,805; Nov. 20.
Southern Yarn Exchange, Baltimore, Md. Art needlework. 181,153; Nov. 20.
Standard Ink Mfg. Co., Minneapolis, Minn. Concentrated writing ink. 181,871; Nov. 20.
Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum. 174,933; Nov. 20.
Sta-Put Mfg. Company. (See House, Howard G.)
Starry, Young & Way, Exeter, Calif. Fresh grapes. 185,724; Nov. 20.
Stoecker, William F., doing business as Cleo Products Co., Omaha, Nebr. Beverages and sirups for making same. 185,630; Nov. 20.
Storm Royalty Company, St. Louis, Mo. Clothes-washing machines. 181,426; Nov. 20.
Story & Clark Piano Co., Chicago, Ill. Pianos and piano players. 181,544; Nov. 20.
Straus, Leo R., New York, N. Y. Watches. 183,997; Nov. 20.
St. Regis Paper Company, Watertown, N. Y. Fiber boxes. 184,478; Nov. 20.
Styla Silk Hosiery Co. (See Simmons, Felix.)
Suchar Process Corporation, Dover, Del. Filtering, clarifying, and deodorizing carbons. 183,008; Nov. 20.
Sun-Maid Raisin Growers, Fresno, Calif. Raisin sirup, mincemeat, canned raisins, etc. 172,604; Nov. 20.
Swartz, George D., New York, N. Y. Novelized original photoplay stories. 185,162; Nov. 20.
Szabady Soap Mfg. Co., Inc., Perth Amboy, N. J. Laundry soap. 185,503; Nov. 20.
Tallman, Robbins & Company, Chicago, Ill. Loose-leaf binders. 184,772; Nov. 20.
Taylor Instrument Companies, Rochester, N. Y. Thermometers. 185,994; Nov. 20.
Temple, W. M., Mason City, Iowa. Paper for correspondence and printing. 171,392; Nov. 20.
Thompson-Barlow Company, Inc., The, New York, N. Y. Medicinal preparation for the treatment of obesity. 183,468; Nov. 20.
Thompson, Mary E., Cleveland, Ohio. Hair preparations. 177,246; Nov. 20.
Thyro-Logen Laboratories, Inc., Los Angeles, Calif. Halogen-bearing food for the thyroid gland. 181,576; Nov. 20.
Tin Decorating Company of Baltimore. (See Johnson, William H., assignor.)
Toasted Alaskas Corporation of America (Limited), Wilmington, Del., and Muskogee, Okla. Electric ovens for the toasting of ice cream. 162,592; Nov. 20.
Troco Nut Butter Co., Chicago, Ill. Oleomargarine. 178,782; Nov. 20.
U. S. Radio Company, St. Louis, Mo. Plugs for connecting a radio receiving set to an electric-light circuit. 183,865; Nov. 20.
U. S. Sanitary Specialties Corporation, Chicago, Ill. Compound for cleaning surfaces of wood, metal, etc. 175,535; Nov. 20.
Union Biscuit Company, St. Louis, Mo. Biscuits, crackers, cake, and cake wafers. 152,661; Nov. 20.
United Beverage Products Company, Chicago, Ill. Sirups and beverages sold as soft drinks. 183,726; Nov. 20.
United Dairy Association. (See Bradner Condensed Milk Co., assignor.)
United Fruit Company, Boston, Mass. Dairy products. 163,243; Nov. 20.
United States Asphalt Refining Company, The, New York, N. Y. Asphalt. 183,425; Nov. 20.
Universal Mills, Fort Worth, Tex. Stock and poultry feeds and mashes. 180,089–90; Nov. 20.
Vacuum Oil Company, New York, N. Y. Petroleum oil. 171,294; Nov. 20.
Vargo Trading Corporation, New York, N. Y. Pure pumice artificial rubbing stone. 186,170; Nov. 20.
Velvet Products Company. (See Baumgarten, Emanuel.)
Virginia Dare Company, The, Baltimore, Md. Preserved crushed fruits for soda-fountain purposes. 154,004; Nov. 20.
Voss & Stern, New York, N. Y. Silk and cotton piece goods. 185,545; Nov. 20.
Vox-Schallplatten- und Sprechmaschinen-Aktiengesellschaft, Berlin, Germany. Talking machines, phonographs, parts thereof, and supplies therefor. 165,733; Nov. 20.
Vulcan Record Corporation, New York, N. Y. Sound records for phonographs and talking machines. 185,272; Nov. 20.
Warner Brothers Company, The, Bridgeport, Conn. Brassières, bandeaux, bandeau-girdle combinations, etc. 182,276; Nov. 20.
Waverly Oil Works Company, Pittsburgh, Pa. Lubricating oils. 185,802; Nov. 20.
Waverly Oil Works Company, Pittsburgh, Pa. Soaps. 185,804; Nov. 20.
Weaver, Cartter, doing business as Weaver Specialty Company, Pittsburgh, Pa. Soldering paste or flux. 183,868; Nov. 20.
Weaver Specialty Company. (See Weaver, Cartter.)
Weed, Lewis M. Co., Inc., Binghamton, N. Y. Breeches, coats, vests, etc. 183,353; Nov. 20.
Weil, Joseph, & Sons, Chicago, Ill. Wrapping paper. 185,066; Nov. 20.
Weymann, H. A., & Son, Inc., Philadelphia, Pa. Band and orchestral musical instruments. 182,490; Nov. 20.
Wildfire Battery Co. (See Brownell, Leigh E.)
Wiley, Glen M., Dayton, Ohio. Excavating and hoisting machines. 182,029; Nov. 20.
Wilhoite, Evans & Cohn Inc., Los Angeles, Calif. Overalls, men's work clothing. 184,882; Nov. 20.
Williams, F. Graham, Brick Co., Inc., Atlanta, Ga. Bricks. 169,044; Nov. 20.
Williams, J. B., Company, Glastonbury, Conn. Toilet and shaving soap. 185,547; Nov. 20.
Williams, J. B., Company, The, Glastonbury, Conn. Soap. 185,806; Nov. 20.
Wilton Manufacturing Company, Inc., New York, N. Y. Cotton piece goods. 185,773; Nov. 20.
Winning, Rattner Co., New York, N. Y. Boys' suits and overcoats. 185,396; Nov. 20.
Woitkevich, John, Worcester, Mass. Medicine for the treatment of epileptic maladies. 180,822; Nov. 20.
Worth While Garment Co., Hicksville, Ohio. Undergarments and nightgowns. 184,701; Nov. 20.
Wundamova Company. (See Greever, William.)
Wynne Lard & Provision Co., Inc., Norfolk, Va. Lard substitute. 170,459; Nov. 20.
Wynne Lard & Provision Co., Inc., Norfolk, Va. Lard substitute. 170,462; Nov. 20.
Wynne Lard & Provision Co., Inc., Norfolk, Va. Lard substitute. 170,465; Nov. 20.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Clay. Modeling. Laclede-Christy Clay Products Company. 176,358; Nov. 20.

CLASS 4.

Soap. Andrew Jergens Company. 176,193; Nov. 20; Serial No. 148,150; published Oct. 3, 1922.

CLASS 6.

Aldehydes and amines. Compound produced by the interaction of. Rubber Service Laboratories Co. 176,175; Nov. 20; Serial No. 177,624; published Aug. 14, 1923.
Antifreezing liquid. R. Heepe. 176,230; Nov. 20; Serial No. 176,181; published Sept. 4, 1923.
Antiseptic. Membrane. W. W. Winberg. 176,192; Nov. 20; Serial No. 145,381; published Aug. 1, 1922.
Antitoxic foods, paraffin tablets and oil, etc. Battle Creek Food Company. 176,228; Nov. 20; Serial No. 175,060; published Aug. 14, 1923.
Bichromate of soda and bichromate of potash. Natural Products Refining Co. 176,224; Nov. 20; Serial No. 177,195; published Aug. 7, 1923.
Blood-cleaning liquid. J. Orosz. 176,317; Nov. 20; Serial No. 179,011; published Aug. 14, 1923.
Caffeine, theobromine, and formaldehyde preparations. Societeit voor Chemische Industrie "Katwijk." 176,351; Nov. 20.
Carbohydrates and chemicals. Su-Dex Wood Curing Company. 176,114; Nov. 20; Serial No. 164,608; published Aug. 14, 1923.
Chemical preparation for cleaning closet bowls. J. S. Huff. 176,284; Nov. 20; Serial No. 178,846; published Aug. 14, 1923.
Chemical products used in dyeing. Chemische Fabrik Grünau Landshoff & Meyer Aktiengesellschaft. 176,288; Nov. 20; Serial No. 180,327; published Aug. 14, 1923.
Colors. Wilhelm Brauns Gesellschaft mit beschränkter Haftung. 176,194; Nov. 20; Serial No. 174,160; published Aug. 14, 1923.
Counterirritant and rubefacient. Alpen Company. 176,309; Nov. 20; Serial No. 179,129; published Aug. 7, 1923.
Cream, Freckle-removing or bleaching. Sunny Susan Laboratories. 176,236; Nov. 20; Serial No. 164,567; published Aug. 7, 1923.
Creams, powders, rouges, etc., Face and other. Union Pharmacal Company. 176,271; Nov. 20; Serial No. 177,414; published Aug. 14, 1923.
Deodorizing fluid. Selig Company. 176,290; Nov. 20; Serial No. 180,393; published Aug. 14, 1923.
Depilatory. L. Claverie. 176,168; Nov. 20; Serial No. 177,275; published Aug. 28, 1923.
Disinfectant. Selig Company. 176,291; Nov. 20; Serial No. 180,394; published Aug. 14, 1923.
Disinfectant. Selig Company. 176,296; Nov. 20; Serial No. 180,395; published Aug. 14, 1923.
Disinfectant. Selig Company. 176,322; Nov. 20; Serial No. 180,396; published Aug. 14, 1923.
Disinfectants, insecticides, and deodorants. Chemical Enterprises Incorporated. 176,308; Nov. 20; Serial No. 179,133; published Aug. 14, 1923.
Dyes and dye sticks. Kohn & Silverberg. 176,305; Nov. 20; Serial No. 179,208; published Aug. 14, 1923.
Emollient for use for chapped skin, sunburn, etc. J. Barab. 176,318; Nov. 20; Serial No. 179,085; published Sept. 11, 1923.
Extract anterior lobe pituitary gland. Parke, Davis & Company. 176,313; Nov. 20; Serial No. 179,220; published July 31, 1923.
Extract, toilet water, face and talcum powder, etc. E. Burnham, Inc. 176,367; Nov. 20.
Fat reducer. Nonyo Laboratories. 176,208; Nov. 20; Serial No. 178,863; published Sept. 4, 1923.
Fire-extinguishing compound. River-Lake Chemical Co. 176,239; Nov. 20; Serial No. 160,905; published Aug. 7, 1923.
Food tonic and general stimulant. Drug Products Co. 176,199; Nov. 20; Serial No. 166,134; published July 10, 1923.
Gelatinous compound and nonalcoholic preparation for the relief of dyspepsia, etc. A. D. Pope. 176,304; Nov. 20; Serial No. 179,282; published Aug. 21, 1923.
Hair dressing. A. J. Kleis. 176,171; Nov. 20; Serial No. 177,443; published Sept. 4, 1923.
Hair grower. A. J. Calajoe. 176,244; Nov. 20; Serial No. 176,162; published Aug. 7, 1923.
Hair grower, pressing oil, etc. P. Woodard. 176,174; Nov. 20; Serial No. 178,486; published Aug. 28, 1923.
Hair tonic. W. J. Burns. 176,321; Nov. 20; Serial No. 180,416; published Aug. 14, 1923.
Hair tonic. I. Selkow. 176,300; Nov. 20; Serial No. 179,227; published Aug. 14, 1923.
Herb juice and laxative compound. Herb Juice Medicine Co. 176,338; Nov. 20.
Herb juice and laxative compound. Herb Juice Medicine Co. 176,344; Nov. 20.
Hypochlorite solution. Double-acting alkaline. Western Chemical Co. 176,314; Nov. 20; Serial No. 179,119; published Aug. 28, 1923.
Incense. Aroma Incense Company. 176,335; Nov. 20.
Insect-destroying compound. E. F. Lilly. 176,316; Nov. 20; Serial No. 179,048; published Aug. 14, 1923.
Insecticide, Liquid. White Tar Company. 176,303; Nov. 20; Serial No. 179,287; published July 31, 1923.
Insecticides. D. Klebanoff. 176,302; Nov. 20; Serial No. 179,375; published Sept. 11, 1923.
Insecticides. Wilhelm Oil Company. 176,370; Nov. 20.
Laxative. Agrilin Chemical Company. 176,323; Nov. 20; Serial No. 181,970; published Sept. 11, 1923.
Liniment and hair grower. D. D. Pugsley. 176,345; Nov. 20.
Liquid for cleansing and beautifying the skin and improving the complexion. Jouvence Company. 176,319; Nov. 20; Serial No. 179,045; published July 31, 1923.
Liquids and ointments. R. H. Wojciechowski. 176,310; Nov. 20; Serial No. 179,123; published Aug. 14, 1923.
Lotions and medicinal preparations for inflamed mucous membranes, Skin. A. B. Mann. 176,170; Nov. 20; Serial No. 177,499; published Aug. 7, 1923.
Medicinal belt for treatment of kidneys. Randell & Co. 176,312; Nov. 20; Serial No. 179,112; published Sept. 4, 1923.
Medicinal liquid for lungs and kidney, etc. J. Vajda. 176,281; Nov. 20; Serial No. 178,886; published Aug. 14, 1923.
Medicinal preparation. Fluenzol Proprietary, Ltd. 176,154; Nov. 20; Serial No. 169,897; published Aug. 28, 1923.
Medicinal preparation for colds, cuts, etc. Unruh H. P. Co. 176,194; Nov. 20; Serial No. 155,940; published July 10, 1923.
Medicinal preparation for the treatment of stomach and bowel troubles, coughs, etc. A. J. Perry and Co. 176,223; Nov. 20; Serial No. 177,242; published Aug. 7, 1923.
Medicinal salt for cleaning the hair and scalp, etc. W. D. McPherson. 176,197; Nov. 20; Serial No. 165,703; published Oct. 31, 1922.
Medicine. Gastone Co. 176,306; Nov. 20; Serial No. 179,266; published Aug. 21, 1923.
Medicine for diseases peculiar to females. A. O. Schmidt. 176,178; Nov. 20; Serial No. 178,573; published Aug. 7, 1923.
Medicine for the treatment of influenza, etc. E. A. Secoy. 176,282; Nov. 20; Serial No. 178,875; published Aug. 14, 1923.
Medicine for treatment of tuberculosis of the bone, etc. F. B. Odor. 176,283; Nov. 20; Serial No. 178,864; published Aug. 14, 1923.
Medicine for tuberculosis, Liquid. J. Margus. 176,238; Nov. 20; Serial No. 164,656; published Aug. 7, 1923.
Nicotine sulphate, free nicotine, and tobacco extracts. American Nicotine Company. 176,235; Nov. 20; Serial No. 162,096; published Aug. 14, 1923.
Oil, acne and bleaching lotions, lemon cream, etc., Muscle. De Guile Laboratories Inc. 176,164; Nov. 20; Serial No. 167,841; published Aug. 14, 1923.
Oil, Castor. Berry, Demoville & Co. 176,227; Nov. 20; Serial No. 176,157; published Aug. 7, 1923.
Oil, Stimulating antiseptic. Brown Manufacturing Co. 176,354; Nov. 20.
Oils for hemorrhoids, cuts, bruises, etc., Vegetable. G. G. Harris, jr. 176,237; Nov. 20; Serial No. 160,707; published Aug. 14, 1923.
Oily preparation for producing permanent waves in the human hair. Gem-Air Permanent Wave Co. 176,159; Nov. 20; Serial No. 177,686; published Aug. 28, 1923.
Ointments, salves, etc. National Pharmacal Company. 176,222; Nov. 20; Serial No. 177,686; published Aug. 28, 1923.
Perfume extract, talcum powder, cold cream, etc. American Witch Hazel Supply Co. 176,286; Nov. 20; Serial No. 178,701; published Aug. 14, 1923.
Perfume, toilet water, face powder, etc. Houbigant, Inc. 176,166; Nov. 20; Serial No. 176,025; published Aug. 14, 1923.
Perfumes. De Cameron, Inc. 176,279; Nov. 20; Serial No. 178,961; published Aug. 14, 1923.
Perfumes, toilet water, face, sachet, and talcum powders, etc. Coty, Inc. 176,295; Nov. 20; Serial No. 180,099; published Sept. 4, 1923.
Perfumes, toilet water, face, compact, sachet, and talcum powders, etc. Coty, Inc. 176,299; Nov. 20; Serial No. 180,104; published Aug. 14, 1923.
Pessaries, suppositories, and a preparation of iodine. Menley & James, Limited. 176,225; Nov. 20; Serial No. 177,188; published Aug. 28, 1923.
Petroleum emulsion. F. W. Bell. 176,186; Nov. 20; Serial No. 175,334; published Aug. 14, 1923.

Pharmaceutical preparations. H. Dunwoody. 176,229; Nov. 20; Serial No. 174,959; published Aug. 14, 1923.
Phenylacetaldehyde, phenyl ethyl alcohol, acetate, etc. Antoine Chiris Company. 176,365; Nov. 20.
Pile cure. Puro Products Co. 176,172; Nov. 20; Serial No. 177,407; published Aug. 28, 1923.
Plasters, Medicated. Authorized Wassermann Medical Corporation. 176,169; Nov. 20; Serial No. 177,211; published Aug. 28, 1923.
Pomade, Hair. Bayard Chemical Company. 176,301; Nov. 20; Serial No. 179,393; published July 31, 1923.
Powder, Dry black chemical. Chimnee Sweep Manufacturing Company. 176,285; Nov. 20; Serial No. 178,825; published Aug. 28, 1923.
Powder, massage cream, vanishing cream, etc., Foot relief. Albeco Company. 176,221; Nov. 20; Serial No. 176,309; published Aug. 14, 1923.
Powder, perfume, rouge, etc., Face. G. D. Earl. 176,110; Nov. 20; Serial No. 162,729; published Aug. 28, 1923.
Powder, toilet rouge, powder, and toilet rouge sticks, etc., Face. L. Leichner. 176,233; Nov. 20; Serial No. 166,186; published Aug. 7, 1923.
Powders, rouges, Face. P. Sturges. 176,220; Nov. 20; Serial No. 176,579; published Aug. 7, 1923.
Powders, Talcum. Buddy Brooks, Inc. 176,231; Nov. 20; Serial No. 162,375; published Aug. 14, 1923.
Preparation for asthmatic paroxysms, hay asthma or rose cold, and bronchitis. L. Schuman. 176,292; Nov. 20; Serial No. 180,194; published Aug. 14, 1923.
Preparation for canker and sore throat. C. E. Anderson. 176,185; Nov. 20; Serial No. 175,292; published July 31, 1923.
Preparation for headache, colds, etc. P. Handley. 176,311; Nov. 20; Serial No. 179,148; published Sept. 4, 1923.
Preparation for pyorrhea, abscesses, sores, cancer, and ulcers. C. M. Press. 176,189; Nov. 20; Serial No. 174,637; published Sept. 4, 1923.
Preparation for syphilis and diseases of the skin. E. Tosse & Co. 176,176; Nov. 20; Serial Nos. 178,577–8; published Aug. 7, 1923.
Preparation for the treatment of cancer. E. L. Smith. 176,226; Nov. 20; Serial No. 177,203; published Aug. 7, 1923.
Preparation for the treatment of itching and diseased scalps, etc. H. R. Lovell & Co. 176,167; Nov. 20; Serial No. 177,308; published Aug. 14, 1923.
Preparation for the treatment of the scalp. Jules Ferond Co. 176,156; Nov. 20; Serial No. 169,581; published Aug. 14, 1923.
Preparation for treatment of influenza. J. G. Mills. 176,294; Nov. 20; Serial No. 180,339; published Aug. 14, 1923.
Preparation used for the destruction and eradication of lice, insects, and other vermin. J. F. Gallagher. 176,234; Nov. 20; Serial No. 158,169; published Aug. 7, 1923.
Preparation used in the treatment of goiter and as a prophylactic. Merck & Co. 176,297; Nov. 20; Serial No. 180,076; published Aug. 14, 1923.
Preparations and tonic medicines. Charles H. Phillips Chemical Co. 176,216; Nov. 20; Serial No. 178,463; published Sept. 11, 1923.
Preparations and tonic medicines. Charles H. Phillips Chemical Co. 176,217; Nov. 20; Serial No. 178,466; published Sept. 11, 1923.
Remedy, Sore-throat. J. Holland. 176,293; Nov. 20; Serial No. 179,407; published Aug. 14, 1923.
Rubber-compounding sulphur. Stauffer Chemical Company. 176,372–3; Nov. 20.
Salts, Bath. City of Paris Dry Goods Company. 176,190; Nov. 2; Serial No. 175,917; published July 31, 1923.
Salves and pills for piles. A. K. Condrajian. 176,289; Nov. 20; Serial No. 180,328; published Aug. 28, 1923.
Skin lotion. Salvaderm Co. 176,280; Nov. 20; Serial No. 178,934; published Aug. 14, 1923.
Suppositories, Female. A. C. Schmidt. 176,243; Nov. 20; Serial No. 177,698; published Aug. 14, 1923.
Suppositories, Vaginal. J. R. Yagyu. 176,320; Nov. 20; Serial No. 179,022; published Aug. 28, 1923.
Suprarenal extract, Solution of. Novocol Chemical Mfg. Co. 176,165; Nov. 20; Serial No. 177,319; published Aug. 7, 1923.
Synthetic petrolatum and petroleum jelly. Sherwood Petroleum Company. 176,315; Nov. 20; Serial No. 179,063; published Aug. 14, 1923.
Tablets for the treatment of colds, la grippe, and headache. J. T. Baltar. 176,307; Nov. 20; Serial No. 179,258; published Aug. 14, 1923.
Tablets, Medicinal. California Alfalfa Products Company. 176,195; Nov. 20; Serial No. 158,221; published Apr. 3, 1923.
Tablets, Vegetable laxative. Solax Drug Company. 176,324; Nov. 20; Serial No. 180,455; published Sept. 4, 1923.
Toilet preparation. E. G. West. 176,347; Nov. 20.
Toilet preparations. Barr Manufacturing Corporation. 176,268; Nov. 20; Serial No. 179,392; published July 31, 1923.
Tonic. Saenger Drug Company. 176,337; Nov. 20.
Tonic. V. Turitto. 176,348; Nov. 20.
Tonics for animals. Moorman Manufacturing Company. 176,157; Nov. 20; Serial No. 169,316; published Aug. 28, 1923.
Tooth paste, mouth wash, pyorrhea astringent, hair tonic, etc. G. R. Gilbert. 176,232; Nov. 20; Serial No. 167,612; published Aug. 7, 1923.
Waterproofing compound for use on shingle roofs, etc. J. W. Jackson. 176,188; Nov. 20; Serial No. 173,424; published May 15, 1923.
Windows, Powder to eliminate sun glare from. A. J. Lodder. 176,173; Nov. 20; Serial No. 178,561; published Aug. 14, 1923.

CLASS 13.

Wire fence and barbed wire. Keystone Steel & Wire Company. 176,327; Nov. 20; Serial No. 180,935; published Sept. 18, 1923.
Wire fence and barbed wire. Keystone Steel & Wire Company. 176,328; Nov. 20; Serial No. 183,655; published Sept. 18, 1923.

CLASS 14.

Wire, Galvanized. Keystone Steel & Wire Company. 176,329; Nov. 20; Serial No. 184,730; published Sept. 18, 1923.
Wire, galvanized, Plain and telephone. Keystone Steel and Wire Company. 176,325; Nov. 20; Serial No. 184,731; published Sept. 18, 1923.

CLASS 17.

Cigarettes. Tobacco Products Corporation. 176,134; Nov. 20; Serial No. 183,459; published Sept. 11, 1923.
Cigars. Consolidated Cigar Corporation. 176,144; Nov. 20; Serial No. 183,734; published Sept. 11, 1923.
Cigars. Davis, Sherk & Mason Cigar Co. 176,242; Nov. 20; Serial No. 182,654; published Sept. 11, 1923.
Cigars. S. S. Pierce Co. 176,139; Nov. 20; Serial No. 183,043; published Sept. 11, 1923.
Cigars and tobaccos. Wm. Roucher & Sons. 176,125; Nov. 20; Serial No. 174,816; published Sept. 11, 1923.

CLASS 19.

Cars, Railway gasoline motor. Mudge & Company. 176,336; Nov. 20.

CLASS 22.

Bait, Salmon eggs for. Mrs. R. Carruthers. 176,135; Nov. 20; Serial No. 183,362; published Sept. 11, 1923.
Cards, Playing. United States Playing Card Company. 176,213; Nov. 20; Serial No. 178,536; published Aug. 28, 1923.
Dolls. Ideal Novelty & Toy Co. 176,133; Nov. 20; Serial No. 183,524; published Sept. 11, 1923.
Game, Card. Cummings & Johnson. 176,257; Nov. 20; Serial No. 180,528; published July 31, 1923.
Jumping stick. Fogo Company. 176,107; Nov. 20; Serial No. 154,757; published June 20, 1922.
Minnows, Artificial. J. Wigart. 176,247; Nov. 20; Serial No. 182,946; published Sept. 11, 1923.
Toy automobiles. Abraham & Straus, Inc. 176,138; Nov. 20; Serial No. 183,016; published Sept. 11, 1923.
Toy dogs. Wahoo Novelty Works. 176,246; Nov. 20; Serial No. 182,843; published Sept. 11, 1923.

CLASS 29.

Toothbrushes. Park & Tilford. 176,161; Nov. 20; Serial No. 168,487; published Dec. 5, 1922.

CLASS 35.

Piston rings. G. Reese. 176,353; Nov. 20.
Tires, Solid rubber. Massachusetts Tire Sales Co. 176,356; Nov. 20.

CLASS 37.

Paper, Manila. H. P. Andrews Paper Company. 176,349; Nov. 20.

CLASS 39.

Apparel, Athletic. S. M. Elowsky & Co. 176,270; Nov. 20; Serial No. 177,478; published Sept. 4, 1923.
Apron and girdle supporters, Household. A. Stein & Company. 176,143; Nov. 20; Serial No. 183,003; published Sept. 11, 1923.
Arm bands and suspenders. A. Stein & Company. 176,206; Nov. 20; Serial No. 179,118; published Sept. 4, 1923.
Bandeau and girdle, brassière and girdle, and brassière and corselette, Combined. D. Bickum. 176,210; Nov. 20; Serial No. 178,953; published Aug. 28, 1923.
Bands, Arm. American Wholesale Corporation (Baltimore Bargain House). 176,360; Nov. 20.
Blouses and shirts, Boys'. Burstein-Friedland & Co. 176,118; Nov. 20; Serial No. 166,976; published Sept. 11, 1923.
Boots and shoes. Commonwealth Shoe and Leather Company. 176,342; Nov. 20.
Boots and shoes. Mabley & Carew Company. 176,361; Nov. 20.
Boots and shoes, Leather. Commonwealth Shoe and Leather Company. 176,211; Nov. 20; Serial No. 178,894; published Aug. 28, 1923.
Boots and shoes, Leather. Commonwealth Shoe and Leather Company. 176,375; Nov. 20.
Boots and shoes, Supplemental soles for. H-M Manufacturing Co. 176,277; Nov. 20; Serial No. 177,605; published Aug. 28, 1923.

Boots, shoes, and slippers. Thomas G. Plant Company. 176,124; Nov. 20; Serial No. 167,422; published July 31, 1923.
Boots, shoes, etc. H. H. Roosa. 176,123; Nov. 20; Serial No. 167,658; published Aug. 28, 1923.
Brassières. W. S. D. Underwear Co. 176,218; Nov. 20; Serial No. 178,586; published Aug. 28, 1923.
Brassières and garter brassières. Model Brassiere Co. 176,204; Nov. 20; Serial No. 179,280; published Aug. 14, 1923.
Caps. National Cap Manufacturing Company. 176,209; Nov. 20; Serial No. 178,862; published Sept. 4, 1923.
Caps. S. Schanzer. 176,202; Nov. 20; Serial No. 180,031; published Aug. 14, 1923.
Caps and hats. Crofut & Knapp Co. 176,268; Nov. 20; Serial No. 176,253; published Aug. 7, 1923.
Clothing, coats, suits, and dresses, Outer. P. H. Sampliner Company. 176,250; Nov. 20; Serial No. 180,724; published Sept. 11, 1923.
Coats, Ladies'. Superior Garment Company. 176,252; Nov. 20; Serial No. 181,356; published Sept. 11, 1923.
Corsets. A. Jones. 176,364; Nov. 20.
Corsets. R & G Corset Company. 176,366; Nov. 20.
Corsets. Sears, Roebuck and Co. 176,141; Nov. 20; Serial No. 175,525; published July 31, 1923.
Corsets, corselettes, and brassières. Fifth Avenue Corset Company. 176,251; Nov. 20; Serial No. 178,171; published Aug. 28, 1923.
Corsets, corset waists, and brassières. Ferris Bros. Company. 176,142; Nov. 20; Serial No. 175,779; published July 31, 1923.
Dresses. Borgenicht & Sons Co. 176,109; Nov. 20; Serial No. 158,843; published Aug. 28, 1923.
Dresses, Ladies' and misses'. D. E. Perper. 176,240; Nov. 20; Serial No. 182,835; published Sept. 11, 1923.
Footwear, Sport. Sportmox Company. 176,272; Nov. 20; Serial No. 177,413; published Aug. 7, 1923.
Fur garments. P. Richman. 176,111; Nov. 20; Serial No. 162,349; published Aug. 28, 1923.
Garments, underwear, shirt waists, and bloomers, Sleeping. C. S. Steiner. 176,203; Nov. 20; Serial No. 180,309; published Sept. 4, 1923.
Garters. W. H. Johnson. 176,140; Nov. 20; Serial No. 174,841; published July 24, 1923.
Garters, belts, neckties, boudoir caps, etc. Western Fancy Goods Company. 176,149; Nov. 20; Serial No. 171,561; published Aug. 28, 1923.
Garters, Men's. American Wholesale Corporation (Baltimore Bargain House). 176,350; Nov. 20.
Gloves. Elmer Little & Son. 176,343; Nov. 20.
Gloves, gauntlets, and mittens, Leather. Joseph N. Eisendrath Company. 176,131; Nov. 20; Serial No. 173,474; published July 24, 1923.
Gloves, gauntlets, and mittens, Leather. Joseph N. Eisendrath Company. 176,132; Nov. 20; Serial No. 173,469; published July 24, 1923.
Hats. J. Land. 176,106; Nov. 20; Serial No. 152,428; published July 24, 1923.
Hats and caps. Rabiner Brothers. 176,212; Nov. 20; Serial No. 178,670; published Aug. 28, 1923.
Hats and shirts, Men's. L. Klein, Inc. 176,127; Nov. 20; Serial No. 174,308; published Sept. 11, 1923.
Hats for women and children. Sunman & Hewson. 176,264; Nov. 20; Serial No. 177,146; published July 24, 1923.
Hats for women and children. N. Schreiber. 176,371; Nov. 20.
Hats, Ladies'. H. L. Distillator & Son. 176,276; Nov. 20; Serial No. 177,727; published July 31, 1923.
Hats, Men's. Hurt & Wasserman. 176,266; Nov. 20; Serial No. 176,418; published June 12, 1923.
Hats, Women's. L. Lichtenstein Inc. 176,374; Nov. 20.
Hose supporters and parts thereof. M. Hawle. 176,352; Nov. 20.
Hosiery. Dayton Company. 176,254; Nov. 20; Serial No. 182,335; published Sept. 4, 1923.
Hosiery. H. C. F. Koch & Co. 176,273; Nov. 20; Serial No. 177,389; published Sept. 11, 1923.
Hosiery. J. H. Lyon & Co. 176,261; Nov. 20; Serial No. 182,597; published Sept. 4, 1923.
Hosiery. New York Merchandise Company. 176,248; Nov. 20; Serial No. 182,604; published Sept. 4, 1923.
Hosiery. Real Silk Hosiery Mills. 176,369; Nov. 20.
Hosiery. Richmond Hosiery Mills. 176,245; Nov. 20; Serial No. 182,838; published Sept. 11, 1923.
Hosiery. Stocking Shops of America, Inc. 176,150; Nov. 20; Serial No. 171,669; published Aug. 28, 1923.
Hosiery. Thieme Brothers Company. 176,259; Nov. 20; Serial No. 180,632; published Sept. 11, 1923.
Hosiery. United Hosiery Mills Corporation. 176,153; Nov. 20; Serial No. 169,428; published June 5, 1923.
Hosiery, Misses'. Athens Hosiery Mills. 176,269; Nov. 20; Serial No. 176,530; published Sept. 4, 1923.
Knitted coats. Ely & Walker Dry Goods Company. 176,275; Nov. 20; Serial No. 178,096; published Sept. 11, 1923.
Neckties. Meyer, Bacharach & Friedheim. 176,129; Nov. 20; Serial No. 174,184; published Sept. 11, 1923.
Neckties, cravats, and scarfs. Franc-Strohmenger & Cowan, Inc. 176,138; Nov. 20; Serial No. 183,105; published Sept. 11, 1923.
Rompers, wash suits, dresses, etc. J. Schwartz. 176,121; Nov. 20; Serial No. 167,151; published Aug. 7, 1923.
Rubber boots, shoes, overshoes, and rubber-soled canvas shoes. Hood Rubber Company. 176,205; Nov. 20; Serial No. 179,470; published Aug. 14, 1923.
Rubber heels. United States Rubber Company. 176,148; Nov. 20; Serial No. 171,880; published July 31, 1923.
Rubber heels. Wedge Heel & Rubber Co. 176,152; Nov. 20; Serial No. 170,916; published July 31, 1923.
Rubber heels for shoes. Holtite Manufacturing Company. 176,214; Nov. 20; Serial No. 178,844; published Aug. 28, 1923.
Rubber soles and heels. P. Barbieri. 176,119; Nov. 20; Serial No. 166,032; published Nov. 14, 1923.
Shirts, blouses, and pyjamas. Phillips-Jones Corporation. 176,137; Nov. 20; Serial No. 183,122; published Sept. 11, 1923.
Shirts, Dress. C. R. Miller Mfg. Co. 176,146; Nov. 20; Serial No. 172,115; published Aug. 28, 1923.
Shirts, Men's. W. T. Grant Company. 176,255; Nov. 20; Serial No. 180,472; published Sept. 11, 1923.
Shoes. J. M. Ahearn. 176,333; Nov. 20.
Shoes. Cammeyer. 176,262–3; Nov. 20; Serial Nos. 178,327–8; published Aug. 28, 1923.
Shoes. Craddock-Terry Co. 176,274; Nov. 20; Serial No. 177,278; published Aug. 7, 1923.
Shoes. Harper & Kirschten Shoe Co. 176,160; Nov. 20; Serial No. 168,527; published Aug. 7, 1923.
Shoes. London Shoe Company. 176,334; Nov. 20.
Shoes. Niagara Shoe Company. 176,362–3; Nov. 20.
Shoes. E. P. Reed & Co. 176,256; Nov. 20; Serial No. 180,554; published Sept. 14, 1923.
Shoes. E. P. Reed & Co. 176,258; Nov. 20; Serial No. 180,553; published Sept. 4, 1923.
Shoes. Rickard Shoe Company. 176,340; Nov. 20.
Shoes. J. Roberts. 176,332; Nov. 20.
Shoes, Children's. Henry M. Willets, Incorporated. 176,331; Nov. 20.
Shoes, Children's leather. Wood & Smith, Inc. 176,207; Nov. 20; Serial No. 179,077; published Aug. 28, 1923.
Shoes, Leather. International Shoe Company. 176,200; Nov. 20; Serial No. 179,471; published Aug. 14, 1923.
Shoes, Leather. Turrell Shoe Co. 176,348; Nov. 20.
Shoes, pants, sport clothes, etc. P. Goldsmith Sons Company. 176,359; Nov. 20.
Suits and girls' dresses, Boys'. B. Rubinsky. 176,128; Nov. 20; Serial No. 174,262; published Sept. 11, 1923.
Suits, Men's. Weber & Heilbroner. 176,241; Nov. 20; Serial No. 182,690; published Sept. 4, 1923.
Suits, Women's. L. Bamberger & Co. 176,112; Nov. 20; Serial No. 160,483; published Sept. 11, 1923.
Sweater coats. Cadet Knitting Company. 176,249; Nov. 20; Serial No. 180,652; published Sept. 4, 1923.
Sweaters. Quaker City Sweater Mills. 176,116; Nov. 20; Serial No. 163,649; published Aug. 28, 1923.
Sweaters. Quaker City Sweater Mills. 176,117; Nov. 20; Serial No. 163,647; published Aug. 28, 1923.
Underwear of textile fabric for women. Sterling Underwear Company. 176,260; Nov. 20; Serial No. 180,561; published Sept. 11, 1923.

CLASS 42.

Sheets, pillowcases, bedspreads, table linens, towels, Bed. Mosse, Inc. 176,201; Nov. 20; Serial No. 180,022; published Aug. 21, 1923.

CLASS 46.

Bananas. H. J. Vinkemulder. 176,108; Nov. 20; Serial No. 160,168; published Aug. 21, 1923.
Beans, Product made of. Sang Yuen & Co. 176,130; Nov. 20; Serial No. 174,162; published Sept. 4, 1923.
Butter and eggs. Gude Brothers, Kieffer Company. 176,182; Nov. 20; Serial No. 174,442; published July 10, 1923.
Cake. Ward Baking Company. 176,368; Nov. 20.
Candy and chocolates. D'Orlando & Co. 176,163; Nov. 20; Serial No. 168,357; published Sept. 4, 1923.
Canned, dried, and preserved fruits, berries, vegetables, etc. Libby, McNeill & Libby. 176,267; Nov. 20; Serial No. 176,268; published Sept. 4, 1923.
Canned fruits. Kings County Packing Co. 176,162; Nov. 20; Serial No. 168,422; published Sept. 4, 1923.
Canned fruits and vegetables. F. B. Neuhoff. 176,151; Nov. 20; Serial No. 171,856; published Sept. 4, 1923.
Canned fruits and vegetables. New York Canners, Inc. 176,158; Nov. 20; Serial No. 168,722; published Aug. 21, 1923.
Cheese and ice cream. Pure Milk & Dairy Co. 176,376; Nov. 20.
Chicks, Live. Henry Little & Sons. 176,187; Nov. 20; Serial No. 167,086; published Sept. 11, 1923.
Chicks, live poultry, and eggs, Baby. A. S. Douthit. 176,355; Nov. 20.
Chocolate, marshmallow whip, flash chocolate, jiffy milk cocoa, etc., Instantaneous. Stephen F. Whitman & Son. 176,126; Nov. 20; Serial No. 174,419; published Aug. 21, 1923.
Coffee. Sherman Coffee Company. 176,219; Nov. 20; Serial No. 178,475; published Aug. 21, 1923.
Coffee. C. R. Yates. 176,145; Nov. 20; Serial No. 173,458; published Sept. 4, 1923.
Coffee and tea. J. H. Braun & Co. 176,265; Nov. 20; Serial No. 177,267; published Aug. 21, 1923.
Dairy products. G. O. Clark. 176,357; Nov. 20.

Eggs. Gude Brothers, Kieffer Company. 176,180–1; Nov. 20; Serial Nos. 174,443–4; published July 10, 1923.
Eggs. Gude Brothers, Kieffer Company. 176,183; Nov. 20; Serial No. 174,440; published July 10, 1923.
Feed. Tioga Mill & Elevator Co. 176,341; Nov. 20.
Feed, Horse and mule. Josey-Miller Company. 176,179; Nov. 20; Serial No. 176,680; published Aug. 28, 1923.
Feeds, wheat and Graham flours, etc., Livestock and poultry. Nicholls-Loomis Co. 176,326; Nov. 20; Serial No. 154,990; published Sept. 12, 1922.
Flour. Wolf Milling Company. 176,339; Nov. 20.
Flour, Wheat. Goerz Flour Mills Co. 176,191; Nov. 20; Serial No. 152,796; published July 17, 1923.
Fondant and base in candy, ice cream, etc., Semiprepared. White Stokes Co. 176,215; Nov. 20; Serial No. 178,791; published Aug. 28, 1923.
Fruits, Fresh citrous. Lee County Packing Co. 176,253; Nov. 20; Serial No. 178,261; published Sept. 4, 1923.
Fruits, jellies, jams, etc. F. B. Nordman, jr. 176,122; Nov. 20; Serial No. 146,979; published Aug. 28, 1923.
Gum, Chewing. Dudley Gum Company. 176,196; Nov. 20; Serial No. 161,040; published Sept. 11, 1923.
Ice cream. Franklin Ice Cream Company. 176,278; Nov. 20; Serial No. 178,437; published Aug. 21, 1923.
Jellies. V. P. Kennard. 176,153; Nov. 20; Serial No. 169,976; published Aug. 28, 1923.
Lemons, Fresh. Santa Paula Citrus Fruit Association. 176,115; Nov. 20; Serial No. 163,702; published Sept. 4, 1923.
Milk, cream, and milk-chocolate drinks, Preserved. Sterling Milk Company. 176,287; Nov. 20; Serial No. 178,297; published Sept. 4, 1923.
Oat flour or meal, Prepared. Fleming & Company. 176,198; Nov. 20; Serial No. 124,262; published June 21, 1921.
Oils, Vegetable. Puget Sound Oil Works Inc. 176,105; Nov. 20; Serial No. 140,398; published Aug. 21, 1923.
Sirups, Malt. Red Top Malt Extract Co. 176,113; Nov. 20; Serial No. 164,831; published Aug. 28, 1923.
Sugar. California and Hawaiian Sugar Refining Corporation. 176,120; Nov. 20; Serial No. 165,352; published Sept. 4, 1923.
Wafers, Sugar. Taggart Baking Company. 176,330; Nov. 20.

ALPHABETICAL LIST OF LABELS.

Albran. For Cereal Breakfast Food. Kellogg Company. 26,569; Nov. 20.
Always Good Any Time—Any Place. For Ginger Snaps. Green & Green Company. 26,557; Nov. 20.
Assorted Chocolates All cream centers. For Assorted Chocolates. Huyler's. 26,567; Nov. 20.
Assorted Nut Chocolates. For Assorted Nut Chocolates. Huyler's. 26,565; Nov. 20.
Aunt Betty's. For Orange Marmalade. Aunt Betty's Products Co. 26,545; Nov. 20.
Belle Isle. For Canned Tuna. French Sardine Co. 26,555; Nov. 20.
Best Brand. For Creamery Butter. A. S. Spiess. 26,587; Nov. 20.
Blue Spade Playing Cards. For Playing Cards. S. F. Hanzel. 26,560; Nov. 20.
Blue Wing. For Apples. Touchet Valley Apple Co. 26,590; Nov. 20.
Bran Candy. For Candy. A. Widdis. 26,595; Nov. 20.
Bunte Pollyanna Chocolates. For Chocolates. Bunte Brothers. 26,547; Nov. 20.
Chex—Does More Than Soap. For Boxes for Soap. Pioneer Products Co. 26,583; Nov. 20.
Circus Sally. For Candy. Circus Sally Company. 26,549; Nov. 20.
College Days. For Chocolates. Milwaukee Paper Box Company. 26,580; Nov. 20.
Exeter. For Fresh Grapes. Exeter Orange Growers Association. 26,551; Nov. 20.
Exeter. For Oranges. Exeter Orange Growers Association. 26,552; Nov. 20.
Everstyle. For Hosiery. Milwaukee Paper Box Company. 26,579; Nov. 20.
F H M Ever Ease Preparation. For a Massaging Preparation. F. H. Menge. 26,574; Nov. 20.
Fresh Eggs. For Eggs. Menasha Printing and Carton Company. 26,573; Nov. 20.
Golden Diamond Playing Cards. For Playing Cards. S. F. Hansel. 26,561; Nov. 20.
Goodman's. For Matzoths. A. Goodman & Sons, Inc. 26,556; Nov. 20.
Green Club Playing Cards. For Playing Cards. S. F. Hansel. 26,559; Nov. 20.
Grounder. For Ready-Mixed Paints. R. F. Johnston Paint Company. 26,568; Nov. 20.
G. W. Five Circuit Switch Plug. For Electrical Plugs. G. E. Walker Company. 26,593; Nov. 20.
Hage's Ice Cream. For Ice Cream. Sanitary Ice Cream Co. 26,585; Nov. 20.
Hannah Weston Brand. For Blueberries. Chandler River Co-Operative Canning Association. 26,548; Nov. 20.
He-Pa-Co. For a Headache, Cold, and Pain Remedy. Tri-Me-Laboratories, Inc. 26,591; Nov. 20.
Ice Cream. For Ice Cream. Menasha Printing and Carton Company. 26,572; Nov. 20.
La Divinidad. For Cigars. C. H. Hundemann. 26,564; Nov. 20.
Liberty Patch. For Automobile Tube Patches. United States Distribution Co. 26,592; Nov. 20.
Lion Puncture Patch. For a Patch for Repairing Articles Made of Rubber. S. G. Clendenning. 26,550; Nov. 20.
Maleto. For Mayonnaise Salad Dressing. Henard Mayonnaise Company. 26,562; Nov. 20.
Meese. For Brooms. G. Meese. 26,571; Nov. 20.
Merrillite College Special. For Candy. Merrill Candy Company. 26,575; Nov. 20.
Mill On The Floss. For Oranges. James Mills Orchards Corporation. 26,578; Nov. 20.
Mt. Lassen. For Fresh Pears. James Mills Orchards Corporation. 26,576; Nov. 20.
Nut and Fruit Chocolates. For Nut and Fruit Chocolates. Huyler's. 26,566; Nov. 20.
Peacock Pale Amber Sparkling Ginger Ale. For Ginger Ale. Weisbrod & Hess Brewing Company. 26,594; Nov. 20.
Pizenske. For Malt Extract. M. Hinko. 26,563; Nov. 20.
Pure Honey. For Honey. A. I. Root Company. 26,584; Nov. 20.
Red Wing. For Apples. Touchet Valley Co. 26,589; Nov. 20.
Shell. For Canned Peas. Free & Klinck, Inc. 26,553; Nov. 20.
Solidified Brilliantine. For a Hair Fixative. A. J. Krank. 26,570; Nov. 20.
Star. For Leather Dressing. Picken Chemical Company. 26,582; Nov. 20.
Sunbeam. For Cigars. Austin, Nichols & Co. 26,546; Nov. 20.
Sundew. For Canned Succotash. Free & Klinck, Inc. 26,554; Nov. 20.
Sunny Jim. For Prunes. J. G. Shaw. 26,586; Nov. 20.
Uncle Wiggily Animal Crackers. For Cracker Boxes. Fred A. Wish, Inc. 26,596; Nov. 20.
Uncle Wiggily Toy Balloons. For Balloon Boxes. Fred A. Wish, Inc. 26,597; Nov. 20.
Unrivalled Excellence. For Crackers. Green & Green Company. 26,558; Nov. 20.
Windmill. For Oranges. James Mills Orchards Corporation. 26,577; Nov. 20.
Windsor Chocolates. For Candy. Tacoma Biscuit & Candy Company. 26,588; Nov. 20.
Yorkshire Farm. For Peanut Butter. John Morrell & Co. 26,581; Nov. 20.

ALPHABETICAL LIST OF PRINTS.

A Delight to All. For Ice Cream. Frederick C. Mathews Company. 7,004; Nov. 20.
Ajax Brand Perfection In Mens Dressing Combs. For Combs. Vulcanized Rubber Company. 7,014; Nov. 20.
Along The French Highways. For Arrow Shirts. Cluett, Peabody & Co. 6,975; Nov. 20.
Always Pleasing. For Ice Cream. Frederick C. Mathews Company. 7,002; Nov. 20.
A Refreshing—Delicious—Satisfying Dish. For Ice Cream. Frederick C. Mathews Company. 6,996; Nov. 20.
Arrow Shirts For the most formal, etc. For Arrow Shirts. Cluett, Peabody & Co. 6,986; Nov. 20.
Arrow Shirts—Merit in Arrow Shirts, etc. For Arrow Shirts. Cluett, Peabody & Co. 6,980; Nov. 20.
Arrow Shirts—The Arrow Shirts are distinguished, etc. For Arrow Shirts. Cluett, Peabody & Co. 6,985; Nov. 20.
Arrow Shirts—What is universally accepted, etc. For Arrow Shirts. Cluett, Peabody & Co. 6,983; Nov. 20.

As Invigorating as a Breath of Mountain Air. For Soap. James S. Kirk & Company. 6,994; Nov. 20.
A Slice of Deliciousness. For Ice Cream. Frederick C. Mathews Company. 7,003; Nov. 20.
Claim Check. For Goodyear Wingfoot Soles and Heels. Goodyear Tire & Rubber Company. 6,991; Nov. 20.
Collars Outside! For Gordon an Arrow Shirt. Cluett, Peabody & Co. 6,973; Nov. 20.
Eaux De Toilette De Coty. For Perfumes and Toilet Water. Coty, Inc. 6,989; Nov. 20.
Embroider & Crochet with Nun's Boilproof. For Threads, Yarns, and Cottons. T. Buettner & Co. 6,971; Nov. 20.
From Blossom to Tasty Fruit. For Ice Cream. Frederick C. Mathews Company. 6,997; Nov. 20.
Galloping Shirts. For Arrow Shirts. Cluett, Peabody & Co. 6,978; Nov. 20.
Gordon, an Arrow Shirt—A Shirt that is tailored for service. For Arrow Shirts. Cluett, Peabody & Co. 6,979; Nov. 20.
Gasoline Alley Bunch. For Dolls. F. O. King. 6,993; Nov. 20.
Hawaiian Pineapple. For Ice Cream. Frederick C. Mathews Company. 7,009; Nov. 20.
Introducing The 'Corset-less' Corset Model Nu West. For Corsets and Similar Garments. Nu Bone Corset Co. 7,010; Nov. 20.
Les Parfums De Coty. For Perfumes. Coty, Inc. 6,990; Nov. 20.
Les Poudres De Coty. For Powders. Coty, Inc. 6,988; Nov. 20.
L'Origan De Coty. For Perfumes. Coty, Inc. 6,987; Nov. 20.
Martin's 100% Pure. For Varnishes. Martin Varnish Company. 6,995; Nov. 20.
Our Strawberry Soda. For Ice Cream. Frederick C. Mathews Company. 7,008; Nov. 20.
Par Arrow Collars. For Arrow Collars. Cluett, Peabody & Co. 6,984; Nov. 20.
Post's Bran Flakes. For Breakfast Food (Cereal). Postum Cereal Company. 7,011; Nov. 20.
Real Crushed Fruit Flavor. For Ice Cream. Frederick C. Mathews Company. 7,005; Nov. 20.
S. S. S. Nature's Blood Purifier. For a Medicinal Preparation—Namely, a Tonic for the Blood. Swift Specific Company. 7,013; Nov. 20.
Skeezix. For Dolls. F. O. King. 6,992; Nov. 20.
Tabhurst Arrow Wing Collars. For Arrow Collars. Cluett, Peabody & Co. 6,982; Nov. 20.
That First Shirt Washing. For Arrow Shirts. Cluett, Peabody & Co. 6,974; Nov. 20.
The Choice of Particular People. For Ice Cream. Frederick C. Mathews Company. 7,000; Nov. 20.
The Extreme of Excellence. For Ice Cream. Frederick C. Mathews Company. 7,001; Nov. 20.
The Height of Delight. For Ice Cream. Frederick C. Mathews Company. 6,999; Nov. 20.
The Ideal Dessert. For Ice Cream. Frederick C. Mathews Company. 7,006; Nov. 20.
The Issue Shirt. For Arrow Shirts. Cluett, Peabody & Co. 6,977; Nov. 20.
The Shirt Off Your Back. For Arrow Shirts. Cluett, Peabody & Co. 6,976; Nov. 20.
To Be Sure Use Sperry Drifted Snow Flour. For Wheat Flour. Sperry Flour Company. 7,012; Nov. 20.
Tuxara Arrow Collars. For Arrow Collars. Cluett, Peabody & Co. 6,981; Nov. 20.
Two Tasty Dishes. For Ice Cream. Frederick C. Mathews Company. 7,007; Nov. 20.
What I Need Today. For Ginger Ale. Canada Dry Ginger Ale. 6,972; Nov. 20.
Your Dream. For Ice Cream. Frederick C. Mathews Company. 6,998; Nov. 20.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 1.

Ice. Imperial Ice and Development Company. 182,418; Nov. 20.
Leather. Seton Leather Co. 177,202; Nov. 20.
Pelts. H. Rosenberg. 173,248; Nov. 20.

CLASS 2.

Baskets. Shearer & McCarthy Corp. 184,217; Nov. 20.
Boxes, Fiber. St. Regis Paper Company. 184,478; Nov. 20.
Drums, Shipping. Seymour & Peck Company. 181,701–2; Nov. 20.

CLASS 3.

Horse collars. Indianapolis Saddlery Company. 182,541; Nov. 20.

CLASS 4.

Brake dressing, fabric cleanser, etc., Safety. National Compound Co. 179,311; Nov. 20.
Cleansing preparation. W. Greever. 185,579; Nov. 20.
Compound adapted for cleaning surfaces of wood, metal, etc. U. S. Sanitary Specialties Corporation. 175,535; Nov. 20.
Footwear, Cleaner for satin. Rex-Oil Company. 186,158; Nov. 20.
Hone. American Hone Co. 185,237; Nov. 20.
Oil, Petroleum. Vacuum Oil Company. 171,294; Nov. 20.
Polisher, Prepared textile stove. K. C. Rawles. 183,548; Nov. 20.
Powder for removing oil and grease, etc., Water-soluble. American Chemical Paint Company. 181,235; Nov. 20.
Pumice artificial rubbing stone, Pure. Vargo Trading Corporation. 186,170; Nov. 20.
Soap. J. R. Beaton Co. 185,405; Nov. 20.
Soap. Richard Hudnut. 183,880; Nov. 20.
Soap. J. B. Williams Company. 185,547; Nov. 20.
Soap. J. B. Williams Company. 185,806; Nov. 20.
Soap cream, Shaving. Wm. McDonagh & Sons. 179,673; Nov. 20.
Soap, Laundry. Seabady Soap Mfg. Co. 185,503; Nov. 20.
Soap, Medicated. L. D. Caulk Company. 185,412; Nov. 20.
Soap, Medicated. Menley & James, Limited. 185,607; Nov. 20.
Soap powder. Luckel, King & Cake Soap Co. 186,145; Nov. 20.
Soaps. Waverly Oil Works Company. 185,804; Nov. 20.
Soaps and creams, Shaving. Clio & Cie., Inc. 181,247; Nov. 20.
Sweeping compound. Mutual Oil Company. 184,141; Nov. 20.
Waterproofing, softening, and preserving preparation for leather. D. B. Hostetter. 185,257; Nov. 20.

CLASS 5.

Glues or pastes. Dextro Products Inc. 186,220; Nov. 20.
Tire-repair compounds, adhesives, etc. H. G. House. 186,232; Nov. 20.

CLASS 6.

Adhesive tapes. Deane Plaster Co. 170,971; Nov. 20.
Batteries, Electrolyte for storage. L. E. Brownell. 164,302; Nov. 20.
Carbon remover, Liquid. National Compound Co. 179,312; Nov. 20.
Carbons, Filtering, clarifying, and deodorizing. Suchar Process Corporation. 183,008; Nov. 20.
Cleaning and disinfectant preparation. M. Glauber & Company. 183,829; Nov. 20.
Cough drops. C. F. Eggimann. 183,445; Nov. 20.
Cream and hair dressing, Greaseless cold. Graves Bros. 179,198; Nov. 20.
Dentifrice and also liquid cream dentifrice, Liquid. Solvora, Inc. 183,805; Nov. 20.
Hair preparations. M. E. Thompson. 177,246; Nov. 20.
Halogen-bearing food for the thyroid gland. Thyro-Logen Laboratories. 181,576; Nov. 20.
Hydrastis canadensis, Nonalcoholic solution of the active medicinal principles of. W. S. Merrell. 182,884; Nov. 20.
Insect destroyer. Bedsole-Colvin Drug Co. 183,829; Nov. 20.
Insecticide. Eckman Chemical Company. 159,504; Nov. 20.
Insecticide. Hood River Spray Company. 183,832; Nov. 20.
Insecticides. S. H. Sachaklian. 183,165; Nov. 20.
Liniment. C. H. Greene. 175,488; Nov. 20.
Medicinal powder. W. S. Pollard. 180,140; Nov. 20.
Medicinal preparation. Thompson-Barlow Company. 183,458; Nov. 20.
Medicinal preparation for the treatment of pains, aches, etc. Mrs. E. Smith. 182,881; Nov. 20.
Medicinal preparation used in the treatment of gout, rheumatism, etc. Schering & Glatz, Inc. 182,839; Nov. 20.
Medicine for the treatment of epileptic maladies. J. Woitkevich. 180,822; Nov. 20.
Medicines for disorders of the stomach, indigestion, etc. Sampico Indian Medicine Co. 181,022; Nov. 20.
Paste or flux, Soldering. C. Weaver. 183,868; Nov. 20.
Perfume, talcum, sachet, and face powder. Maison Mendessolle. 183,841; Nov. 20.
Perfume, toilet water, sachet, cold cream, etc. Adolf D. Lindemann & Son. 181,951; Nov. 20.
Perfumes, toilet water, face powder, etc. Coty, Inc. 180,101; Nov. 20.
Powders and creams, perfumes, toilet waters, etc., Face. W. H. Johnson. 182,929; Nov. 20.
Preparation for growing hair and eradicating dandruff. I. J. Harris. 183,830; Nov. 20.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Preparation for the treatment of corns, etc. Kahley Company. 176,797; Nov. 20.
Preparation for the treatment of pyorrhea. M. E. Hisey. 181,341; Nov. 20.
Radium. Radium Emanation Corporation. 183,890; Nov. 20.
Raw materials and essential oils for manufacturing hair tonics, etc. R. M. Froehlich. 179,529; Nov. 20.
Snuff. A. Carmel. 183,818; Nov. 20.
Solution, composition, or mixture for the removal or prevention of incrustation or corrosion in steam generators, etc. Hughes and Hancock. 178,667; Nov. 20.
Tablet, Liver. T. E. Smith. 181,541; Nov. 20.
Toilet preparation for the eyes. D. Ansehl. 183,811; Nov. 20.
Tonic, General. Metropole Drug Company. 151,279; Nov. 20.

CLASS 10.

Lime for agricultural purposes, Hydrated. Kelley Island Lime and Transport Company. 181,128; Nov. 20.
Tankage and fertilizer. S. Rauh & Sons Fertilizer Company. 184,761; Nov. 20.

CLASS 11.

Ink, Concentrated writing. Standard Ink Mfg. Co. 181,871; Nov. 20.
Rubber-stamp pads and pad inks. E. Baumgarten. 167,223; Nov. 20.

CLASS 12.

Asphalt. United States Asphalt Refining Company. 183,425; Nov. 20.
Bricks. F. Graham Williams Brick Co. 169,044; Nov. 20.
Cement in laying up fire brick and kindred uses, Furnace. S. Obermayer Co. 184,094; Nov. 20.
Eaves trough and eaves-trough drops, ends, etc. Milwaukee Corrugating Company. 137,326; Nov. 20.
Luting composition. F. R. Schulz. 183,859; Nov. 20.

CLASS 13.

Cookers, Steam-pressure. Metropolitan Manufacturing Co. 168,541; Nov. 20.
Garment-hanging fixtures. Lawson Manufacturing Company. 180,186; Nov. 20.

CLASS 14.

Molybdenum and tantalum. Fansteel Products Company. 181,521; Nov. 20.

CLASS 15.

Lubricants. Harvey Oil Co. 184,029; Nov. 20.
Oil and gasoline, Motor. Kentucky Independent Oil Company. 184,286; Nov. 20.
Oil, Lubricating. Roxana Petroleum Corporation. 185,991; Nov. 20.
Oils, Lubricating. G. A. Bergfors. 186,212; Nov. 20.
Oils, Lubricating. Waverly Oil Works Company. 185,802; Nov. 20.
Petroleum and products of petroleum. Standard Oil Company of New York. 174,933; Nov. 20.

CLASS 16.

Colors, paste and ready-mixed paints, varnishes, oil pastes, and shellacs, Dry. Albert K. Sheldon Company. 179,747; Nov. 20.
Finishing or polishing material. "Bear Cat" Products Co. 186,210; Nov. 20.
Zinc oxide. Grasselli Chemical Company. 186,228; Nov. 20.

CLASS 17.

Cigarettes and tobacco. A. Coulapides, Inc. 184,392; Nov. 20.
Cigars. Marcelino Perez & Company. 184,681–3; Nov. 20.
Cigars, cigarettes, and smoking tobacco. J. Koppel. 185,125; Nov. 20.

CLASS 19.

Automobile baggage carrier. Leather Mat Manufacturing Co. 169,978; Nov. 20.
Automobile bodies, tops, and wheels. E. W. Erdmann. 154,016; Nov. 20.

CLASS 21.

Batteries and parts thereof, Electric storage. Blue Ribbon Battery Company. 179,652; Nov. 20.
Cookers, Electric. Excel Electric Co. 184,716; Nov. 20.
Electric hot plates. Liberty Gauge and Instrument Company. 182,711–12; Nov. 20.
Electric-lighting fixtures and hangers, etc. Buffalo Chandelier Corporation. 183,357; Nov. 20.
Electrical and telephone apparatus. Cook Electric Company. 152,785; Nov. 20.
Electrical apparatus. City Electric Company. 182,399; Nov. 20.
Electrical starting, lighting, and ignition apparatus and parts thereof. Dayton Engineering Laboratories Company. 181,942; Nov. 20.
Fireplaces, Artificial log for. W. E. Marshall. 182,979; Nov. 20.
Fuses, protective devices for radio apparatus, adapters, loud speakers, etc. M. B. Cohen. 183,195; Nov. 20.
Headlights of automobiles and motor cycles, Switch for dimming the. M. O. Devers. 185,247; Nov. 20.
Lamps, Electric. Parch-O-Lite Co. 174,026; Nov. 20.
Lamps, Portable electric. Greist Manufacturing Co. 180,978; Nov. 20.
Motors, switchboards, etc., Electric. M. R. Rodriques. 172,123; Nov. 20.
Ovens for the toasting of ice cream, Electric. Toasted Alaskas Corporation of America. 162,592; Nov. 20.
Radio and telephone apparatus. Moss-Schury Mfg. Co. 183,119; Nov. 20.
Radio receiving and transmitting apparatus. Chicago Radio Apparatus Co. 165,227; Nov. 20.
Radio receiving apparatus. A. H. Grebe & Co. 165,375; Nov. 20.
Radio receiving apparatus and parts thereof. Pal Radio Company. 183,537; Nov. 20.
Radio receiving set to an electric-light circuit, Plugs for connecting a. U. S. Radio Company. 183,865; Nov. 20.
Radio receiving sets. Globe Art Mfg. Co. 168,034; Nov. 20.
Radio receiving sets and parts thereof. Mignon Electric Manufacturing Corp. 167,005; Nov. 20.
Radio receiving sets and parts thereof. H. R. Rose. 182,847; Nov. 20.

CLASS 23.

Automobile engines, Water-circulation pumps for. Price Brothers. 184,755; Nov. 20.
Bearings, Bronze. More-Jones Brass & Metal Co. 183,847; Nov. 20.
Blade sharpeners. Domestic Devices Corporation. 184,024; Nov. 20.
Condensers, heat exchangers, coolers, and dephlegmators. Griscom-Russell Company. 178,100; Nov. 20.
Excavating and hoisting machines. G. M. Wiley. 182,029; Nov. 20.
Fountains, Beverage-dispensing. California Fruit Growers Exchange. 184,064; Nov. 20.
Gear-cutting machines and parts thereof. Farrel Foundry & Machine Company. 185,212; Nov. 20.
Hammers, hatchets, axes, and wedges. Evansville Tool Works. 180,423; Nov. 20.
Hatchets, hammers, crate openers, etc. Markwell Manufacturing Co. 185,372; Nov. 20.
Jacks, Lifting. L. C. Berman. 185,554; Nov. 20.
Knives and shears, Machine. Simonds Saw and Steel Company. 183,006; Nov. 20.
Tire molds, solid cores, etc., Fabric and cord. Reynolds Machine Company. 184,264; Nov. 20.
Tools, Steel. Marion Tool Works, Inc. 184,946; Nov. 20.

CLASS 24.

Washing machines, Clothes-. Storm Royalty Company. 181,426; Nov. 20.

CLASS 25.

Automobile steering post locks. American Wheel Company. 145,000; Nov. 20.

CLASS 26.

Picture machines, exposure meters, etc., Moving-. Dayton Photo Products Company. 165,785; Nov. 20.
Scales, Weighing. Jacobs Bros. Co. 185,297; Nov. 20.
Thermometers. Taylor Instrument Companies. 185,994; Nov. 20.
Thermometers, Oven. Electrical Appliance Manufacturing Company. 186,274; Nov. 20.

CLASS 27.

Clocks. New Haven Clock Co. 184,747; Nov. 20.
Watchcases. Helbein-Stone Company. 156,791; Nov. 20.
Watchcases. A. Kamion. 184,314; Nov. 20.
Watches. L. R. Straus. 183,997; Nov. 20.

CLASS 28.

Barrettes. Hayes-Meserole Mfg. Co. 184,968; Nov. 20.
Rings, bar and scarf pins, earrings, Finger. Baskin Brothers. 184,230; No. 20.
Rings, Finger. Schneider & Hyman. 181,316; Nov. 20.
Rings, pins, bracelets, etc., Finger. Katz & Ogush, Inc. 184,168; Nov. 20.

CLASS 29.

Brooms and mops. Gem Hammock & Fly Net Company. 138,557; Nov. 20.
Brushes. H. Behlen & Bro. 185,283; Nov. 20.
Brushes. Lincoln Paint & Color Company. 182,978; Nov. 20.
Brushes, Peninsular Paint & Varnish Company. 182,992; Nov. 20.
Powder puffs. M. Levy. 184,171; Nov. 20.
Toothbrushes. Geo. R. Gibson Co. 184,337; Nov. 20.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 30.

Crockery and porcelain. Gorham Manufacturing Company. 152,251; Nov. 20.

CLASS 33.

Lenses, Mirrored. C. F. Bacon, trustee. 179,024; Nov. 20.

CLASS 34.

Oil burners, balanced draft equipment for furnaces, etc. Engineer Company. 181,882; Nov. 20.

CLASS 35.

Tire treads. E. B. McKay. 184,738; Nov. 20.

CLASS 36.

Musical instruments. A. H. Weymann & Son, Inc. 182,490; Nov. 20.
Phonographs and talking machines, Sound records for. Vulcan Record Corporation. 185,272; Nov. 20.
Pianos and phonographs. Melody Piano Co. 185,606; Nov. 20.
Pianos and piano players. Story & Clark Piano Co. 181,544; Nov. 20.
Talking machines, phonographs, parts thereof, and supplies therefor. Vox-Schallplatten- und Sprechmaschinen-Aktiengesellschaft. 165,733; Nov. 20.

CLASS 37.

Binders, Loose-leaf. Tallman, Robbins & Company. 184,772; Nov. 20.
Books, Blank. Keystone Business Service Co. 185,082; Nov. 20.
Envelopes. Royal Card & Paper Company. 184,564; Nov. 20.
Paper. W. M. Temple. 171,392; Nov. 20.
Paper, Toilet. Northern Paper Mills. 184,356; Nov. 20.
Paper, Wrapping. Joseph Weil & Sons. 185,066; Nov. 20.
Pen, Fountain. Druggists' Supply Corporation. 186,272; Nov. 20.
Towels, Folded. Northern Paper Mills. 184,351; Nov. 20.

CLASS 38.

Books, Instruction. C. P. Boals. 183,793; Nov. 20.
Cartoons. King Features Syndicate, Inc. 185,468; Nov. 20.
Magazine. F. W. Dodge Corporation. 185,570–2; Nov. 20.
Magazine, Financial. Financier Publishing Co. 184,903; Nov. 20.
Magazine, Monthly. Photodramatist Publishing Company. 179,550; Nov. 20.
Newspaper articles, Pen name or nom de plume on. N. N. Choate. 181,967; Nov. 20.
Photoplay stories, Novelized original. G. D. Swartz. 185,162; Nov. 20.
Prints and publications. C. Cross. 177,476; Nov. 20.
Publication. C. E. Bradley. 185,407; Nov. 20.
Publication, Daily. J. L. Frazier. 184,129; Nov. 20.
Publication, Monthly. Order of the Scottish Clans. 186,924; Nov. 20.

CLASS 39.

Aprons, skirts, and rompers. Miller & Canary. 183,753; Nov. 20.
Boots and shoes, Leather. Bettmann-Dunlap Company. 181,006–7; Nov. 20.
Boots, shoes, and moccasins. G. H. Bass & Co. 180,354; Nov. 20.
Boots, shoes, and rubbers. Mishawaka Woolen Mfg. Co. 151,462; Nov. 20.
Brassières. Ida Munzer, Inc. 177,100; Nov. 20.
Brassières. Lucile Somarco Brassière Co. 176,560; Nov. 20.
Brassières, bandeaux, bandeau-girdle combinations, etc. Warner Brothers Company. 182,276; Nov. 20.
Breeches, coats, vests, etc. Lewis M. Weed Co. 183,353; Nov. 20.
Caps, sweaters, and underwear. McLaughlin Textile Corporation. 185,126; Nov. 20.
Cloaks, coats, dresses, suits, and skirts. Linder Bros. 185,084; Nov. 20.
Coats, capes, wraps, mantles, etc. S. Karp. 183,156; Nov. 20.
Coats, overcoats, hosiery, etc. Adsit and Rugg Inc. 174,421; Nov. 20.
Corsets, brassières, bust supporters, etc. John Hollbach Company. 181,025; Nov. 20.
Fur coats, capes, neckpieces, collars, and jackets. Elite Fur Shop, Inc. 183,447; Nov. 20.
Girdles, corsets, and hip supporters. The Lay & Way Co. 175,502; Nov. 20.
Gloves, Leather. James McCreery & Company. 167,847; Nov. 20.
Hats and caps. Nemo Hat Company. 181,535; Nov. 20.
Hats, Ladies' and children's. Calyork Manufacturing Co. 177,828; Nov. 20.
Hosiery. Levinson & Shapiro. 159,802; Nov. 20.
Hosiery. Paramount Knitting Company. 172,292; Nov. 20.
Hosiery. F. Simmons. 162,647; Nov. 20.
Neckties, Men's. Ely & Walker Dry Goods Company. 184,440; Nov. 20.
Overalls, men's work clothing. Wilhoite, Evans & Cohn Inc. 184,882; No. 20.
Rubber and canvas footwear. Servus Rubber Company. 180,453; Nov. 20.
Rubber heels. Panther Rubber Manufacturing Company. 173,780; Nov. 20.
Shirts, Men's work. Reliance Manufacturing Company. 174,754; Nov. 20.
Shirts, Silk. H. S. Rochelle. 176,572; Nov. 20.
Shoes, Leather. Porter-Seitz Shoe Stores Company. 180,671; Nov. 20.
Suits and overcoats, Boys'. Winning, Rattner Co. 185,396; Nov. 20.
Suits and overcoats for children and men. Bettmann-Kleinhauser Clothing Company. 183,792; Nov. 20.
Suits for boys and girls, and knickers and outing suits for men and women. Delaware Garment Company. 185,364; Nov. 20.
Suits, skirts, blouses, jacquettes, etc. Lord & Taylor. 181,409; Nov. 20.
Sweaters. I. Berger. 181,719; Nov. 20.
Sweaters, cardigan jackets, scarfs, bathing suits, etc. Korn Bros. 185,342; Nov. 20.
Ties, cravats. Friedman Bros. & Sons Neckwear Co. 185,290; Nov. 20.
Topcoats and overcoats. Piper & Salerno Co. 185,229; Nov. 20.
Undergarments and nightgowns. Worth While Garment Co. 184,701; Nov. 20.

CLASS 40.

Art needlework. Southern Yarn Exchange. 181,153; Nov. 20.
Shoe lacers. Hatjy George Bros. 184,402; Nov. 20.

CLASS 42.

Cambrics and nainsooks. Lonsdale Co. 185,714; Nov. 20.
Cloth, Cotton. Bear Mill Manufacturing Company. 185,553; Nov. 20.
Corduroys, velveteens, and cotton piece goods. Howlett & Hockmeyer Co. 184,855; Nov. 20.
Cotton piece goods. Wilton Manufacturing Company. 185,773; Nov. 20.
Damasks, Table. A. W. Baylis Co. 184,632; Nov. 20.
Fabrics made from cellulose derivatives. British Cellulose and Chemical Manufacturing Company. 186,313; Nov. 20.
Hair nets. J. Giguet. 180,176–7; Nov. 20.
Hair nets. Gracenet Company. 179,147; Nov. 20.
Handkerchiefs. J. Silberstein. 185,847; Nov. 20.
Silk and cotton piece goods. Voss & Stern. 185,545; Nov. 20.
Silk fabric, Artificial. Société Pour La Fabrication De La Soie "Rhodiaseta." 173,540; Nov. 20.
Voile. Max Schwarz Textile Corporation. 185,797; Nov. 20.
Woolen piece goods. Forstmann & Huffmann Company. 185,114; Nov. 20.

CLASS 45.

Beverages and sirups for making same. W. F. Stoecker. 185,630; Nov. 20.
Beverages, concentrates and compounds for making the same. California Crushed Fruit Company. 186,349; Nov. 20.
Beverages sold as soft drinks. J. A. Mitchell. 181,491; Nov. 20.
Sirup for making of beverages. Bourbon-Ola Company. 186,101; Nov. 20.
Sirups and beverages sold as soft drinks. United Beverage Products Company. 183,726; Nov. 20.
Water, Mineral. Silver King Mineral Water Co. 186,759; Nov. 20.

CLASS 46.

Beverage, Milk-chocolate. Missouri Valley Creamery Company. 177,568; Nov. 20.
Biscuits, crackers, cake, and cake wafers. Union Biscuit Company. 152,661; Nov. 20.
Bread. J. C. Dempster. 182,704; Nov. 20.
Bread. W. P. M. Greick. 162,815; Nov. 20.
Bread. Hochman & Wertheim. 176,079; Nov. 20.
Bread. Mackechnie Bread Company. 156,097; Nov. 20.
Bread and cake. Busse Baking Company. 181,557; Nov. 20.
Butter. H. N. Brawner, Jr. 161,348; Nov. 20.
Butter and cheese. New Zealand Co-operative Dairy Company Limited. 168,335; Nov. 20.
Butter, Nut. E. F. Drew & Co. 163,617; Nov. 20.
Cake. C. A. Hellwig. 181,988; Nov. 20.
Cake. Purity Cake Company. 175,212; Nov. 20.
Candy. Chase Candy Co. 177,474; Nov. 20.
Canned chili. P. Baca. 179,349; Nov. 20.

Canned fruits and vegetables. Beesemyer-Waggoner, Inc. 185,650; Nov. 20.
Canned fruits and fruit preserves, canned vegetables, etc. Reid, Murdoch & Co. 163,176; Nov. 20.
Canned goods, cheese, etc. Joannes Bros. Co. 172,744; Nov. 20.
Canned milk. Bradner Condensed Milk Co. 153,869; Nov. 20.
Cheese. J. L. Kraft & Bros. Co. 177,678; Nov. 20.
Cheese. C. Perceval. 178,865; Nov. 20.
Chocolate, Cream malted. Edgar P. Harrison & Son. 182,147; Nov. 20.
Chocolate, nuts, and caramel, Milk. Metro Chocolate Co. 178,762; Nov. 20.
Coffee. Lewis, Hubbard and Company. 185,712; Nov. 20.
Confection. Battle Creek Food Company. 181,239; Nov. 20.
Dairy products. United Fruit Company. 163,243; Nov. 20.
Egg mash, scratch feed, etc. Missouri Farmers' Association. 174,911; Nov. 20.
Feed, Horse and mule. Louisville Cereal Mill Co. 181,291; Nov. 20.
Feeds and mashes, Stock and poultry. Universal Mills. 180,089–90; Nov. 20.
Flavoring extracts. Joseph Burnett Co. 164,746; Nov. 20.
Flavoring extracts, salad dressing, prepared mustard, etc., Food. H. P. Lau Co. 177,390; Nov. 20.
Flour, Plain and self-rising wheat. Farmers Milling Co. 177,965; Nov. 20.
Flour, Self-rising. Dunlop Milling Co. 160,592; Nov. 20.
Flour, Wheat. Archbold-Giger & Co. 181,808; Nov. 20.
Flour, Wheat. Ballard & Ballard Company. 159,337; Nov. 20.
Flour, Wheat. King Milling Co. 182,755; Nov. 20.
Flour, Wheat. Levenson, Shevelove Co. 161,929; Nov. 20.
Flour, Wheat. Portland Flour Mills Co. 182,179; Nov. 20.
Food product, Cereal. Perfection Products Company. 177,989; Nov. 20.
Foods, Health. W. H. Brooks. 178,159; Nov. 20.
Fruits for soda fountain purposes, Preserved crushed. Virginia Dare Company. 154,004; Nov. 20.
Grapes, Fresh. Starry, Young & Way. 185,724; Nov. 20.
Lard substitute. Wynne Lard & Provision Co. 170,459; Nov. 20.
Lard substitute. Wynne Lard & Provision Co. 170,462; Nov. 20.
Lard substitute. Wynne Lard & Provision Co. 170,465; Nov. 20.
Meats, butter, eggs, etc. Allied Packers, Incorporated. 163,309; Nov. 20.
Oats. E. E. Anderson. 175,835; Nov. 20.
Oats. E. E. Anderson. 175,837; Nov. 20.
Oleomargarine. Troco Nut Butter Co. 178,782; Nov. 20.
Raisin sirup, mincemeat, etc. Sun-Maid Raisin Growers. 172,694; Nov. 20.
Rice. Seaboard Rice Milling Co. 156,603; Nov. 20.
Vanilla, Imitation. Cabell Corporation of Baltimore City. 183,194; Nov. 20.
Wafers, cookies, biscuits, Sugar. Lakeside Biscuit Co. 182,313; Nov. 20.

CLASS 48.

Sirup, Malt. W. T. Smoot. 183,674; Nov. 20.

CLASS 50.

Automobiles and parts thereof, Service covers for. Riverside Manufacturing Company. 182,611; Nov. 20.
Tents. Denver Tent and Awning Company. 184,963; Nov. 20.
Waterproof duck and tarpaulins. Fulton Bag & Cotton Mills. 184,545; Nov. 20.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 20TH DAY OF NOVEMBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Aasen, Niels W., Christiania, Norway. Breath deflector. 1,475,105; Nov. 20.
Abbott, Ralph W. (See Koehler, Henry W., assignor.)
Adams, Daniel, Newton, Mass. Combustion-controlling system. 1,474,754; Nov. 20.
Adams, Thomas O., assignor to The Wise-McClung Manufacturing Company, New Philadelphia, Ohio. Adjustable brush for vacuum cleaners. 1,474,875; Nov. 20.
Aetna Rubber Co., The. (See Campbell, Stanley T., assignor.)
Affel, Herman A., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Secret-communication system. 1,474,426; Nov. 20.
Ainsworth, George, Great Neck, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Combination socket cover and husk for lighting fixture. Des. 63,277; Nov. 20.
Ainsworth, Mark, Kansas City, Mo. Gate latch. 1,474,575; Nov. 20.
Aktiebolaget Svenska Kullagerfabriken. (See Winggvist, Erik H., assignor.)
Albin, Fred L., Kiowa, Colo. Halter strap. 1,474,340; Nov. 20.
Alink, Benjamin F., Spring Valley, Minn. Insect-catching device. 1,474,427; Nov. 20.
Allen, Abbott, Dunellen, and T. J. Mumford, 2d, assignors, by mesne assignments, to R. S. Mumford, Plainfield, N. J. Molding machine. 1,474,612; Nov. 20.
Allen, Arthur F., A. F. McCoy, New York, N. Y., and R. O. Sternberger, Newark, N. J., assignors to Tidewater Paper Mills Company, Brooklyn, N. Y. Skimming apparatus. 1,474,397; Nov. 20.
Allen, Calvin H., Mattapan, and A. C. Henderson, Brookline, Mass. Personal propelling device. 1,474,952; Nov. 20.
Allen, Charles M. (See Lyon, Robert N., assignor.)
Allen, James B., Denver, Colo. Game. 1,474,504; Nov. 20.
Allen, John E., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. Des. 63,276; Nov. 20.
Alloway, Alexander, Erie, assignor to Erie Art Metal Company, Millcreek Township, Erie County, Pa. Sheet-metal article. 1,474,923; Nov. 20.
Alseth, Stengrim, Minneapolis, Minn. Portable merry-go-round. 1,474,341; Nov. 20.
Alstott, James W., assignor of one-half to A. Earl, Fort Dodge, Iowa. Advertising display device. 1,475,041; Nov. 20.
American Chain Company. (See Hoff, C. L., and Naugle, assignors.)
American Fabrics Company, The. (See Page, Samuel H., assignor.)
American Optical Company. (See Johnston, George S., assignor.)
American Optical Company. (See Parsons, Harold K., assignor.)
American Optical Company. (See Tillyer, Edgar D., assignor.)
American Radio & Research Corporation. (See Randall, Eugene F., assignor.)
American Sheet and Tin Plate Company. (See Kimball, G. C., and McIlvried, assignors.)
American Steel Foundries. (See Lamont, John A., assignor.)
American Steel Foundries. (See Sparrow, Arthur, assignor.)
American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)
American Telephone and Telegraph Company. (See Blackwell, Otto B., assignor.)
American Telephone and Telegraph Company. (See Deardorff, Ralph W., assignor.)
Anaconda Sales Company. (See Robinson, Thomas, assignor.)
Anderson, Charles A., Chicago, Ill. Pump. 1,474,877; Nov. 20.
Anderson, Ernest. (See Nelson, John, assignor.)
Anderson, James W., assignor to Anderson Manufacturing Company, San Francisco, Calif. Photographer's studio appliance. 1,474,809; Nov. 20.
Anderson Manufacturing Company. (See Anderson, James W., assignor.)
Anderson, William C., Kansas City, Mo. Exposure timer. 1,474,342; Nov. 20.
Andrews, Preston L., Brooklyn, N. Y. Envelope-fastening device. 1,474,876; Nov. 20.
Appelquist, Erik, Worcester, Mass., assignor to Rule Form Machine Company. Rule-form machine. 1,474,924; Nov. 20.
Archer, John, Toronto, Ontario, Canada. Water heater. 1,474,878; Nov. 20.
Archibald, Eugene C., Council Bluffs, Iowa. Spring rope socket. 1,474,701; Nov. 20.
Arrowood, Milton W., Chicago, Ill., assignor to Ground Coal Engineering Corporation, Worcester, Mass. Feeding powdered fuel. 1,474,613; Nov. 20.
Arthur, Paul, Chicago, Ill. Composite heel. 1,475,042; Nov. 20.
Ashley, Frank R., Denver, Colo. Interior awning control. 1,474,505; Nov. 20.
Athenas, Harry, New York, N. Y. Portable electric combination drill. 1,475,153; Nov. 20.
Atkinson, George W., Samuels, Idaho. Process and means for plucking poultry. 1,474,702; Nov. 20.
Austin, F. C., Machinery Company. (See French, James C., assignor.)
Austin, F. C., Machinery Company. (See Russell, Leslie A., assignor.)
Automatic Electric Company. (See Richardson, Rodney G., assignor.)
Automatic Electric Company. (See Smith, Arthur B., assignor.)
Autopoint Manufacturing Company. (See Keeran, Charles R., assignor.)
Ayres, Charles S., Riverton, N. J., assignor to Chas. S. Ayres, Inc., Camden, N. J. Foldable hand bag. 1,474,879; Nov. 20.
Ayres, Chas. S., Inc. (See Ayres, Charles S., assignor.)
Babcock, Everett P. (See Sonnekes, Frederick J., assignor.)
Baebr, George, Coraopolis, Pa. Mill for rolling shapes. 1,474,880; Nov. 20.
Bailey, Chester I., Greenwood, Mo., assignor to L. H. Oberreich, Indianapolis, Ind. Shock absorber. 1,474,810; Nov. 20.
Bain, Joseph G., Pittsburgh, and L. M. Stempel, Dormont, assignors to Lewis Foundry & Machine Company, Pittsburgh, Pa. Bridling apparatus. 1,474,755; Nov. 20.
Bain, William J., Barnsdall, Okla. Automobile jack foot. 1,474,428; Nov. 20.
Baldwin, Louis W., Jersey City, N. J. Pneumatic tire. 1,474,429; Nov. 20.
Ball, James R. and W. H., Chicago, Ill.; said W. H. Ball assignor to said James R. Ball. Creasing device for trousers. 1,474,993; Nov. 20.
Ball, William H. (See Ball, James R. and W. H.)
Balme, Joseph F., jr., Boston, Mass. Railway tie and rail fastening. 1,475,106; Nov. 20.
Baltimore Trust Company, trustee. (See Scott, Alexander A., assignor.)
Baltimore Tube Company. (See Bradley, R. E., and Webber, assignors.)
Bariiko, John G. (See Simbol, Harry, assignor.)
Barker, Joseph E., Denver, Colo. Lock switch for automobile ignition. 1,474,506; Nov. 20.
Barkschat, Henry, Los Angeles, assignor of one-half to E. B. Blinn, Pasadena, Calif. Forming hollow concrete bodies. 1,474,881; Nov. 20.
Barnard, Arthur E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Recovering residual anthraquinone from a sulphonation mass. 1,474,507; Nov. 20.
Barnhart, Loren G. (See Van Ness, Frank A., assignor.)
Barry, Arthur E. (See Davignon, E. A., Barry, and Greenhalgh.)
Barth, Karl, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-discharging wagon. 1,474,703; Nov. 20.
Bartlett, William D., assignor to The Ross Manufacturing Company, Cleveland, Ohio. Holder for wheel dressers. 1,474,614; Nov. 20.
Bash Oil and Refining Company. (See Hoge, Daniel W., assignor.)
Bassick Company, The. (See Herold, Walter F., assignor.)
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-trimming machine. 1,474,398; Nov. 20.
Bates Manufacturing Company, The. (See Haupt, William F., assignor.)

Bauer Brothers Company, The. (See Maloney, Daniel, assignor.)
Baumgarten, Edward J., Canton, assignor of one-half to The Beans Spring Company, Massillon, Ohio. Die. 1,474,882; Nov. 20.
Bayer, Josef, Barmen, Germany. Seal for hoop-iron ends. 1,474,883; Nov. 20.
Beach, Carl A., Denver, Colo. Automobile cabinet. 1,474,704; Nov. 20.
Beach, Howard L., Mount Lebanon, Pa., assignor to Clark Car Company. Control valve. 1,474,756; Nov. 20.
Beans Spring Company, The. (See Baumgarten, Edward J., assignor.)
Beard, Frank A., Columbus, Ohio. Theatrical device. 1,474,576; Nov. 20.
Beaumont, R. H., Company. (See Hale, William E., assignor.)
Beck, Edwin M., Greensburg, Ind. Electroplating anode. 1,474,460; Nov. 20.
Behr, Leo, assignor to Leeds & Northrup Company, Philadelphia, Pa. Automatic control apparatus. 1,474,884; Nov. 20.
Beiden, Russell D., assignor to Madison Tire & Rubber Company, Inc., Buffalo, N. Y. Nonskid tire tread. Des. 63,278; Nov. 20.
Bem, Arthur L., Manitowoc, Wis. Truck. 1,474,811; Nov. 20.
Benjamin Engineering Company, The. (See Benjamin, Merrill G., assignor.)
Benjamin, George H., New York, N. Y. Tunnel kiln. 1,474,616; Nov. 20.
Benjamin, Merrill G., Poland, assignor to The Benjamin Engineering Company, Cleveland, Ohio. Governor. 1,474,615; Nov. 20.
Benson, Ernest, Valley City, N. Dak. Crate. 1,474,508; Nov. 20.
Bentley, John H., et al. (See Brown, William H. A., assignor.)
Berglof, Knut, Buffalo, N. Y. Igniter. 1,474,661; Nov. 20.
Biddinger, Frank E., Nashville, Tenn. Ice-cutting implement. 1,474,243; Nov. 20.
Bigelow-Hartford Carpet Company. (See Enis, Joseph, assignor.)
Bigelow-Hartford Carpet Company. (See Sauer, Emil G., assignor.)
Bika, Vincent. (See Thierjung, Mathew, assignor.)
Billger, Alonzo E., Indianapolis, Ind. Pneumatic bell ringer. 1,474,925; Nov. 20.
Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Water-cooled transformer. 1,474,757; Nov. 20.
Bircher, Eugene A., Rochester, N. Y. Fermentation seal. 1,474,461; Nov. 20.
Bishop, Jesse J., Elyria, Ohio. Differential mechanism for automobile rear axles. 1,474,399; Nov. 20.
Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Plug receptacle. 1,474,758; Nov. 20.
Black, William. (See Browne, J. T., and Black.)
Blackwell, Otto B., Garden City, N. Y., assignor to American Telephone and Telegraph Company. Telephone repeater. 1,474,430; Nov. 20.
Blanchard, Horace J., et al. (See Folgert, Joseph W., assignor.)
Blandy, William H. P., Indian Head, Md., and R. K. Turner, Washington, D. C., assignors to the Government of the United States. Director elevating mechanism. 1,474,759; Nov. 20.
Blankenhagen, Albert, Akron, Ohio. Portable scaffold. 1,474,462; Nov. 20.
Blaw-Knox Company. (See Rawley, Wayne, assignor.)
Blinn, Edmund B. (See Barkschat, Henry, assignor.)
Bloom, Joseph, New York, N. Y. Stitch wheel for knitting machines. 1,475,045; Nov. 20.
Bloom, Ottis G., Wilkes-Barre, Pa. Shock absorber. 1,475,044; Nov. 20.
Bluemel, Gustave, Toledo, Ohio. Automatic rotary heating furnace. 1,474,705; Nov. 20.
Bobbitt, James F., Greenwood, Miss. Toy vehicle. 1,474,577; Nov. 20.
Bogusch, Emil G., assignor of one-fourth to C. E. Wisner, Detroit, Mich. Internal-combustion engine. 1,474,617; Nov. 20.
Boice, Harry. (See Dudley, P. E., and Boice.)
Boice, William T., Nashua, Iowa. Combined pencil sharpener and holder. 1,474,885; Nov. 20.
Bolei, Jesse, Stockton, Ill. Hook. 1,475,046; Nov. 20.
Bollinger, Frederick A., Akron, Ohio. Tire tread. Des. 63,279; Nov. 20.
Bond, Alexander R. (See Walker, J. B., and Bond.)
Bone, Benjamin F., et al. (See Dungan, John E., assignor.)
Boorum & Pease Company. (See Von Auw, Alwin, assignor.)
Borden Company, The. (See Ried, Henrita F. H., assignor.)
Bowker, Harold G., assignor to Topp-Stewart Tractor Co., Clintonville, Wis. Tractor leg. 1,474,400; Nov. 20.
Boyce, Guy W., Slick, Okla. Casing spear. 1,474,886; Nov. 20.
Bradley, Ross E., and C. R. Webber, assignors to Baltimore Tube Company, Inc., Baltimore, Md. Treating metal. 1,474,953; Nov. 20.
Bramley, Matthew F., Cleveland, Ohio. Lantern cage. 1,474,401; Nov. 20.
Brannon, Herbert E. (See Weinberg, L. C., and Brannon.)
Bransky, Oscar E. (See Humphreys, Rogers, and Bransky.)
Brazelton, Isaac, et al. (See Folgert, Joseph W., assignor.)
Bresch, Joseph, Rosemont, N. J. Throw-off mechanism for ribbon looms. 1,475,047; Nov. 20.
Breslavsky, Hyman, Brooklyn, N. Y. Finger ring. Des. 63,280; Nov. 20.
Bridges, Ray G., Toronto, Ontario, Canada. Electric heating element. 1,474,887; Nov. 20.
Briner, Frank, Chester, Pa., assignor to Penn Seaboard Steel Corporation, New York, N. Y. Casting steel frames. 1,474,888; Nov. 20.
Briner, Frank, assignor to Penn Seaboard Steel Corporation, Chester, Pa. Feeding head. 1,474,889; Nov. 20.
Brinker, Jesse E., and C. P. McNeil, assignors to Standard Oil Company, Whiting, Ind. Candle-shaping machine. 1,474,890; Nov. 20.
Brooker, Eugene D., New York, N. Y. Hæmocytometer and method of making the same. 1,474,812; Nov. 20.
Brown & Sharpe Mfg. Co. (See Graves, Benjamin P., assignor.)
Brown, Frank A. (See Richmond, William A. and F. P., assignors.)
Brown, Thomas E., Chicago, Ill. Internal-combustion or gas engine. 1,474,954; Nov. 20.
Brown, William H. A., assignor of one-half to H. G. Clark and one-half to J. H. Bentley, Chicago, Ill. Cleaning device. 1,474,994; Nov. 20.
Browne, John T., and W. Black, Hamilton, New Zealand. Means for use in the molding of concrete building blocks. 1,474,813; Nov. 20.
Browne, Ralph C., Salem, Mass. Electrical relay. 1,474,344; Nov. 20.
Browning, George. (See Jacoby, Vennie, assignor.)
Bruder, Edmund, Chicago, assignor to J. Glos, Elmhurst, Ill. Game apparatus. 1,474,618; Nov. 20.
Bryant, Frederic J., New York, N. Y. Ladder. 1,474,760; Nov. 20.
Bryson, Walter S., et al. (See Dungan, John E., assignor.)
Buck, Herman J., Ellwood City, Pa. Bread-cooling apparatus. 1,474,619; Nov. 20.
Bumbarger, Clarence R., assignor to George W. Johnson Manufacturing Company, Kansas City, Mo. Fire door. 1,474,345; Nov. 20.
Bundy, Chalkley L., et al. (See Dungan, John E., assignor.)
Burns-Lindow, Isaac W., Selkirk, Scotland. Resilient wheel. 1,474,926; Nov. 20.
Burroughs, William E., Brooklyn, N. Y. Hose coupling. 1,474,995; Nov. 20.
Burt, F. N., Company. (See Palmer, Lyndon C., assignor.)
Burt, Mary A., Brooklyn, and S. J. Stanley, New York, N. Y.; said Burt assignor to said Stanley. Thermometer rack. 1,474,891; Nov. 20.
Butterfield, Fred, & Co. (See Vandergaw, E. B., and Heinrich, assignors.)
Bystrom, Agnar F., Los Angeles, Calif. Hair curler and waver. 1,474,509; Nov. 20.
Cadman, Addi B. (See Fitzgerald, W. J., and Cadman.)
Cameron, Thomas C., assignor to Imperial Furniture Company, Grand Rapids, Mich. Desk. Des. 63,283; Nov. 20.
Cameron, Thomas C., assignor to Imperial Furniture Company, Grand Rapids, Mich. End table. Des. 63,281; Nov. 20.
Cameron, Thomas C., assignor to Imperial Furniture Company, Grand Rapids, Mich. Table. Des. 63,282; Nov. 20.
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Hopper car. 1,474,814; Nov. 20.
Campbell, Leon W., Providence, R. I. Spinning and drawing roll. 1,474,346; Nov. 20.
Campbell, Sidney B., San Antonio, Tex. Wear plate. 1,475,048; Nov. 20.
Campbell, Stanley T., assignor to The Aetna Rubber Co., Cleveland, Ohio. Making battery jar covers. 1,474,510; Nov. 20.
Campbell, Thomas A., trustee. (See Campbell, T. A., Damon, and Stewart, assignors.)
Campbell, Thomas A., New York, N. Y., J. W. Damon, Plymouth, Mass., and A. B. Stewart, Newark, N. J., assignors to T. A. Campbell, trustee, New York, N. Y. Secondary cell and separator plate for use therein. 1,474,761; Nov. 20.
Canton Pneumatic Tool Company, The. (See Mayo, Milford C., assignor.)
Caple, William M., Hamilton, Mont. Cord-holding device. 1,474,402; Nov. 20.
Carbonit-Aktiengesellschaft. (See Pape, Max C. A. H., assignor.)
Cardell, Eugene F., Providence, R. I. Theft-detecting means. 1,474,706; Nov. 20.
Carey-Gavey Syndicate Limited. (See Higginson, Kingsley, assignor.)
Carnes, Zen A., Waterloo, Iowa. Rotary valve for internal-combustion engines. 1,474,621; Nov. 20.
Carney, Ralph J., Boston, Mass. Scarfpin. 1,474,662; Nov. 20.

Carpenter, Harold W., Norwich, Conn. Electric recording meter. 1,474,955; Nov. 20.
Carr, Edward, assignor of nine-sixteenths to H. D. Dansey, Auckland, New Zealand. Water heater. 1,474,762; Nov. 20.
Carson, John H., Los Angeles, Calif. Pumping jack. 1,474,996; Nov. 20.
Case, Rolland T., La Crosse, Wis. Apparatus for forming dental inlay castings. 1,474,620; Nov. 20.
Cawthra, Albert B., Worcester, Mass. Surgical support. 1,474,927; Nov. 20.
Challis, Herbert D., Sewickley, Pa. Golf club. Des. 63,284; Nov. 20.
Chalus, Frank J. (See Folkman, Morris, assignor.)
Chaney, Lee F., assignor to The Chaney Manufacturing Company, Springfield, Ohio. Making thermometer bulbs. 1,474,403; Nov. 20.
Chaney Manufacturing Company, The. (See Chaney, Lee F., assignor.)
Chevrolet Bros. Manufacturing Co. (See Chevrolet, Louis, assignor.)
Chevrolet, Louis, assignor to Chevrolet Bros. Manufacturing Co., Indianapolis, Ind. Motor head. 1,474,511; Nov. 20.
Church, Frank S., assignor of one-half to The Thos. J. Corcoran Lamp Co., Cincinnati, Ohio. Air spring. 1,475,049; Nov. 20.
Church, Harry V., trustee. (See McDaniel, Marion R., assignor.)
Church, Ira A., assignor, by mesne assignments, to Universal Metal Products Company, Long Beach, Calif. Tool holder. 1,474,404; Nov. 20.
Cinema Advertising Corporation. (See Stegmann, Louis A., assignor.)
Cirillo, Loreta A., New York, N. Y. Corset. 1,474,892; Nov. 20.
Clark, Bernard E., et al. (See Walper, Curry O., assignor.)
Clark Car Company. (See Beach, Howard L., assignor.)
Clark, Charles N., Somerville, Mass. Wagon. 1,474,622; Nov. 20.
Clark, Frank R., jr. (See Malaier, H. E., and Clark.)
Clark, George L., and C. H. Tibado, Norfolk, Nebr. Electric-wiring machine. 1,474,580; Nov. 20.
Clark, Henry G., et al. (See Brown, William H. A., assignor.)
Clark, William H. (See Watson, Charles N., assignor.)
Clas, Angelo R., Toledo, Ohio. Spotlight-adjusting means. 1,474,623; Nov. 20.
Cleary, Edwin, deceased, by A. Hutchinson, administrator, London, England. Burner for liquid fuel. 1,475,050; Nov. 20.
Clifford, John H., Arkansas City, Kans. Combination faucet. 1,475,051; Nov. 20.
Close Brothers & Company Limited. (See Gimson, Joseph F., assignor.)
Coates, Frederick, assignor to Federal Products Company, Cincinnati, Ohio. Automatic carton-body-coating machine. 1,474,997; Nov. 20.
Coates, Frederick, assignor to Federal Products Company, Cincinnati, Ohio. Automatic carton-mouth-coating machine. 1,474,998; Nov. 20.
Coates, Frederick, assignor to Federal Products Company, Cincinnati, Ohio. Automatic carton-head-coating machine. 1,474,999; Nov. 20.
Coe, Demas S., Richmond, Ind. Multiple-form safety device. 1,474,663; Nov. 20.
Cohan, Florence M., Oakland, Calif. Depilatory compound. 1,474,512; Nov. 20.
Collins, Bertrand R. T., Newton Center, assignor to Spray Engineering Company, Boston, Mass. Method, system, and apparatus for log-pile fire prevention. 1,475,052; Nov. 20.
Colona Manufacturing Company. (See Shrum, P. J., and Henigen, assignors.)
Colson Company, The. (See Roe, Mayo E., assignor.)
Comly, Ella P. (See Comly, James F., assignor.)
Comly, James F., assignor to E. P. Comly, New Lexington, Ohio. Nut lock. 1,474,579; Nov. 20.
Conlan, David, jr., Brooklyn, N. Y., assignor to Harvey Hubbell, Inc. Electrical apparatus. 1,474,763; Nov. 20.
Cooney, Michael J., Irma, Alberta, Canada. Share attachment. 1,475,107; Nov. 20.
Cooper, Lyman M., assignor of one-half to C. E. Wisner, Detroit, Mich. Wire-spoked wheel. 1,474,405; Nov. 20.
Cooper, Robert E., and C. O. Sisler, Sault Ste. Marie, Ontario, Canada. Gas-analyzing apparatus. 1,475,000; Nov. 20.
Cooper, Thomas W., Chelmsford, England, assignor to The Norma Company of America, Long Island City, N. Y. Axle box and bearing for tramcar and like vehicle wheels. 1,475,053; Nov. 20.
Cooper, William, Apalachin, N. Y. Animal trap. 1,474,406; Nov. 20.
Corcoran, Thos. J., Lamp Co., The. (See Church, Frank S., assignor.)
Crawford, Ellsworth A., Harrisburg, Ark. Gas vacuum vaporizer. 1,474,764; Nov. 20.
Crocker, Bigelow, Fitchburg, Mass. Apparatus for washing paper-making stock. 1,474,893; Nov. 20.
Cronholm, Frederick N., Andrade, Calif. Construction of dams. 1,474,581; Nov. 20.
Cronholm, Frederick N., Los Angeles, Calif. Construction of dams and building same. 1,474,582; Nov. 20.
Crooke, Leonard, Hagerstown, Md. Manhole cover. 1,474,463; Nov. 20.
Crouse-Hinds Company. (See Bissell, Carl H., assignor.)
Crowl, Martin L., Pueblo, Colo. Sand bucket. 1,474,707; Nov. 20.
Crowley, Hamp. Valdosta, Ga. Shock absorber. 1,474,578; Nov. 20.
Crozier, Harry C., Phoenix, Ariz. Loose-leaf binder. 1,475,054; Nov. 20.
Cunningham, James B. (See Szita, George, assignor.)
Curran, Edward T., Detroit, Mich. Mounting of illuminators or headlights for automobiles. 1,474,815; Nov. 20.
Curran, George, Plymouth, Pa. Automobile light and license holder. 1,475,108; Nov. 20.
Curtis, Sidney S. (See Toffelmeyer, Charles H., assignor.)
Cutler-Hammer Mfg. Co., The. (See Fernow, Bernhard E., jr., assignor.)
Cutler-Hammer Mfg. Co., The. (See Maujer, Robert I., assignor.)
Cutler-Hammer Mfg. Co., The. (See Re Qua, Frederick L., assignor.)
Cutler-Hammer Mfg. Co., The. (See Yerger, Charles W., assignor.)
Dahl, Thure E., New York, N. Y. Wall bracket for lighting fixtures. Des. 63,285; Nov. 20.
Dalias, Charles D., Winnetka, Ill. Scale platform. 1,474,464; Nov. 20.
Damon, John W. (See Campbell, T. A., Damon, and Stewart.)
Dansey, Harry D. (See Carr, Edward, assignor.)
Davignon, Edmond A., A. E. Berry, and J. Greenhalgh, Plainfield, Conn. Attachment for combing machines. 1,475,043; Nov. 20.
Davis, Edward W., Minneapolis, Minn. Magnetic concentrator. 1,474,624; Nov. 20.
Davis, Fred M. (See Masser, Allan M., assignor.)
Davis, George R., Seattle, Wash. Shoe-insole construction. 1,475,055; Nov. 20.
Davis Sewing Machine Company, The. (See Ireland, Ward S., assignor.)
Davol Rubber Company. (See Raiche, Paul A., assignor.)
Dawson, James G., Portsmouth, Ohio. Tool for inserting springs in distributors. 1,475,001; Nov. 20.
Day, Edwin W., Brooklyn, N. Y. Luminous indicator. 1,474,816; Nov. 20.
Day, Henry J., and P. J. Walker, Moulsecomb, England. Pipe stand. Des. 63,286; Nov. 20.
Day, J. H., Company, The. (See Scott, Joseph F., assignor.)
Dean, Ambrose A., Kansas City, Mo. Deck of playing cards. Des. 63,287; Nov. 20.
Dean, Anthony C. (See Winters, Robert E., assignor.)
Dean, James H., Ludington, Mich., assignor to Northwestern Expanded Metal Company, Chicago, Ill. Friction lock nut. 1,474,407; Nov. 20.
Deardorff, Ralph W., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Detecting circuit. 1,474,408; Nov. 20.
Decorative Arts League. (See Muller, John, assignor.)
De Holczer, Louis, assignor to E. A. Tinsman, Salem, Ohio. Automobile tire. Des. 63,299; Nov. 20.
De la Rigaudiere, Guy, assignor to The Traveler Rubber Company of Bethlehem, U. S. A., Bethlehem, Pa. Tire. Des. 63,322; Nov. 20.
De Laval Separator Company, The. (See Hall, Selden H., assignor.)
De Laval Separator Company, The. (See Hapgood, Cyrus H., assignor.)
Delco-Light Company. (See Keilholtz, Lester S., assignor.)
Della, Ernest, Rochester, N. Y. Concrete insert. 1,474,956; Nov. 20.
De Mattia, Peter, Clifton, N. J. Collapsible core. 1,475,109; Nov. 20.
De Montmollin, Guillaume, and J. Spicler, assignors to Society of Chemical Industry of Basle, Basel, Switzerland. Carbonyl derivatives of alpha naphthol and making same. 1,474,928; Nov. 20.
De Muth, John N. (See Vollmer, W. F., and De Muth.)
Denis, Charles A., et al. (See Dominguez, Manuel D., assignor.)
De Olive, Pierce D., Oakhurst, Tex. Resilient wheel. 1,474,664; Nov. 20.
Depue, Oscar B., Chicago, Ill. Motion-picture-film-printing apparatus. 1,474,409; Nov. 20.
De Sanctis, Giovanni, Hubbard, Ohio. Shoe jack. 1,475,002; Nov. 20.
Detroit Sheet Metal Works. (See Ehmke, William C., assignor.)
Deutsch, Siegfried, Vienna, Austria. Steam-heated hot-water radiator. 1,474,765; Nov. 20.
Di Dario, Joseph, Attleboro, Mass. Heater for rotary burnishing irons. 1,474,410; Nov. 20.
Disbrow, Clarkson A., New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Renewable insulation for rail joints. 1,474,431; Nov. 20.
Disher, Edward. (See Williamson, S. W., and Disher.)
Doble, Jesse W., assignor to Doble Laboratories, San Francisco, Calif. Apparatus for controlling the flow of liquids. 1,474,894; Nov. 20.

Doble Laboratories. (See Doble, Jesse W., assignor.)
Dodd, Simon J., Hoopeston, Ill. Foot rest for shoe-blacking stands. 1,474,411; Nov. 20.
Doerr, Lawrence, Silverton, Oreg. Hot-water boiler. 1,475,056; Nov. 20.
Dollinger, Lewis L., Rochester, N. Y. Air filter. 1,474,412; Nov. 20.
Domingues, Manuel D., assignor of ten per cent to C. A. Denis and G. Sarpy, New Orleans, La. Water heater and control switch therefor. 1,475,003; Nov. 20.
Dorsey, Parmer, Wichita, Kans., assignor to Imperial Brass Manufacturing Company, Chicago, Ill. Cutting torch. 1,474,957; Nov. 20.
Dougherty, Elmer E., Glen Ridge, assignor to L. Trust, Ridgefield Park, N. J. Manufacture of lithopone. 1,474,766; Nov. 20.
Doyle, James E., Cleveland, Ohio. Sheet-delivery device. 1,474,413; Nov. 20.
Drake, Robert Z., Omaha, Nebr. Bridge construction. 1,474,513; Nov. 20.
Draper Corporation. (See Warren, Charles H., assignor.)
Drumm, Herbert C., assignor to The Union Metal Manufacturing Company, Canton, Ohio. Lantern. 1,474,895; Nov. 20.
Dry-Zero Corporation, The. (See Lindsay, Harvey B., assignor.)
Drysdale & Company, Limited. (See Drysdale, John W. W., assignor.)
Drysdale, John W. W., assignor to Drysdale & Company, Limited, Yoker, near Glasgow, Scotland. Centrifugal pump. 1,474,708; Nov. 20.
Du Buque, George F., Los Angeles, Calif. Bread slicer. 1,474,767; Nov. 20.
Dudley, Philip E., Wilmington, Del., and H. Boice, Newburgh, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating refrigerator and candy support therefor. 1,474,768; Nov. 20.
Dueker, Carl, Cooper Township, Webster County, Iowa. Journal bearing. 1,475,110; Nov. 20.
Duncan, Archibald H., Napanee, Ontario, Canada. Wrench. 1,475,004; Nov. 20.
Duncan Electric Manufacturing Company. (See Harris, Jesse, assignor.)
Dungan, John E., assignor of seven-sixteenths to W. S. Bryson, one-sixteenth to B. F. Bone, one-sixteenth to F. M. Howard, one-sixteenth to J. A. Schaub, five sixty-fourths to A. C. Scroggins, jr., one-sixteenth to H. J. Zink, five sixty-fourths to E. E. Koontz, one thirty-second to F. H. Gandee, Moundsville, W. Va., one thirty-second to C. L. Bundy, Adena, and two sixty-fourths to W. H. Hill, Cleveland, Ohio. Cartoning machine. 1,474,514; Nov. 20.
Dunkel, Phillip, Denver, Colo. Resilient vehicle wheel. 1,474,465; Nov. 20.
Dunlop Rubber Company, The. (See Paull, Wallace H., assignor.)
Dunning, Elmer D., Philadelphia, Pa. Compression pump. 1,474,769; Nov. 20.
Duplessis, René E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Trimming machine. 1,474,347; Nov. 20.
Du Pont, E. I., de Nemours & Company. (See Barnard, Arthur E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Dudley, P. E., and Boice, assignors.)
Duvall, James, Camas, Wash. Stripper wheel. 1,474,583; Nov. 20.
Dyer Company, The. (See Spicer, Delphin H., assignor.)
Earl, Arthur. (See Alstott, James W., assignor.)
Eastman, Irving T., Cody, Wyo., assignor of one-half to R. O. Eastman, Minneapolis, Minn. Double-acting air pump. 1,474,665; Nov. 20.
Eastman, Roy O. (See Eastman, Irving T., assignor.)
Eberhard Faber Pencil Company. (See Faber, L. W., and Robinson.)
Eckert, Cecilie, New York, N. Y. Culinary press. 1,474,625; Nov. 20.
Edwards, Robert D., Kansas City, Mo. Motor belt. 1,474,666; Nov. 20.
Egan, Paul C., Mount Vernon, N. Y. Lighting fixture. 1,474,958; Nov. 20.
Ehmke, William C., assignor to Detroit Sheet Metal Works, Detroit, Mich. Industrial oven. 1,474,515; Nov. 20.
Eicher, Albert L., Canal Fulton, Ohio. Forging gear worms. 1,474,516; Nov. 20.
Ekberg, Olaf, Topeka, Kans. Garment. 1,474,896; Nov. 20.
Ekvall, Carl O., New York, N. Y. Patch-applying mechanism for window envelopes. 1,474,832; Nov. 20.
Ellingsen, Sigurd, North Vancouver, British Columbia, Canada. Jack. 1,475,057; Nov. 20.
Elliott, James F., Searles, assignor of forty-five per cent to M. E. Morris, Birmingham, Ala. Voting machine. 1,474,414; Nov. 20.
Elliott, Lewis B., Colorado, Tex. Die. 1,474,897; Nov. 20.
Elsy, Thomas E., St. Louis, Mo. Locksmith's vise. 1,475,058; Nov. 20.
Embach, John A., Detroit, Mich. Gas engine. 1,475,005; Nov. 20.
Empire Tinware Company, The. (See Schilling, Barney, assignor.)
Enis, Joseph, Jersey City, N. J., assignor to Bigelow-Hartford Carpet Company. Rug. Des. 63,288; Nov. 20.
Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)
Erdmann, Theodore E., Minneapolis, Minn. Mold for concrete walls. 1,474,667; Nov. 20.
Erhardt, Julius, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen-on-the-Bodensee, Germany. Airship. 1,474,517; Nov. 20.
Erickson, Alvin L., Waterfall, Alaska. Toy. 1,475,059; Nov. 20.
Erickson, Edward, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on shoe bottoms. 1,474,348; Nov. 20.
Erickson, Edward, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-turning machine. 1,474,349; Nov. 20.
Erie Art Metal Company. (See Alloway, Alexander, assignor.)
Etter, Lyle H., Marietta, Ohio. Metallic weather strip. 1,474,709; Nov. 20.
Eureka Rough Dry Pin System Co. (See Hanney, A. F., and Gammell, assignors.)
Everett, Thomas L., assignor of one-half to F. E. Foster, Wellsburg, W. Va. Antiskidding device. 1,474,518; Nov. 20.
Faber, Frank M., Canton, Ohio. Photographic camera. 1,475,006; Nov. 20.
Faber, Lothar W., New York, and W. Robinson, Brooklyn, N. Y., assignors to Eberhard Faber Pencil Company. Pencil. 1,474,519; Nov. 20.
Fadum, Christian, New York, N. Y. Safety attachment for type-slug-casting machines. 1,475,007; Nov. 20.
Fagan, Joseph A., assignor of one-third to W. Smith, Augusta, Ky. Attachable bed and carrier for vehicles. 1,474,929; Nov. 30.
Fahrenbruch, George H., Omaha, Nebr. Freight-car-door lock. 1,474,584; Nov. 20.
Farbenfabriken vorm. Friedr. Bayer and Co. (See Heidenreich, Carl, assignor.)
Farbenfabriken vorm. Friedr. Bayer and Co. (See Schulemann, W., Schütz, and Meisenburg, assignors.)
Farrar, Frederick W., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Seam-rubbing machine. 1,474,350; Nov. 20.
Feaster, Edward B., Lowell, assignor to Saco-Lowell Shops, Boston, Mass. Twisting ring. 1,474,959; Nov. 20.
Federal Products Company. (See Coates, Frederick, assignor.)
Felton, James A., Plainfield, N. J. Can opener. 1,474,466; Nov. 20.
Fender, John B., Kaufman, Tex. Well drill. 1,475,060; Nov. 20.
Ferguson, Charles H., Valhalla, N. Y., assignor to Home Electric Lighting Company, East Orange, N. J. Internal-combustion engine. 1,474,467; Nov. 20.
Fernow, Bernhard E., jr., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electromagnetic brake. 1,474,960; Nov. 20.
Fincke, John A., New York, N. Y. Making wall coverings in imitation of natural stone. 1,474,817; Nov. 20.
Fire Gun Manufacturing Company. (See Tunnell, Harry E., assignor.)
Firestone Tire and Rubber Company, The. (See Tuttle, John C., assignor.)
Fish, Leon H., Albany, Oreg. Stationary cuspidor. 1,474,520; Nov. 20.
Fisher, Clay S., Fort Myers, Fla. Electric sign. Des. 63,289; Nov. 20.
Fisk Rubber Company, The. (See Allen, John E., assignor.)
Fisk Rubber Company, The. (See Frank, Arthur A., assignor.)
Fisk Rubber Company, The. (See Hubach, Gustave, assignor.)
Fitzgerald, William J., and A. B. Cadman, Beloit, Wis. Machine for working concrete or the like. 1,474,770; Nov. 20.
Flanders, Warren B., Essington, Pa., assignor to Westinghouse Electric and Manufacturing Company. Reversing turbine. 1,474,351; Nov. 20.
Flauder, Alfred J., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Coffeepot or similar article. Des. 63,290; Nov. 20.
Fleisher, W. L., & Co. Inc. (See Fleisher, Walter L., assignor.)
Fleisher, Walter L., assignor to W. L. Fleisher & Co. Inc., New York, N. Y. Apparatus for desiccation. 1,474,626; Nov. 20.
Flexo-Motive Corporation. (See Hupp, Irvin, assignor.)
"Flexo" Wrench and Tool Company. (See Stark, Ludwig, assignor.)
Florida Grapefruit Canning Company. (See Street, Claude E., assignor.)
Fluellen, John A., Hardy, Ky. Shopping bag. 1,475,008; Nov. 20.
Foans, Andrew B., New York, N. Y., assignor to Kentucky Derby Company, Inc. Game. 1,475,154; Nov. 20.
Foelsing, Julia C. (See Steen, Axel W., assignor.)
Fogarty, Michael J., Brooklyn, N. Y. Nut-shelling machine. 1,474,468; Nov. 20.

Folgert, Joseph W., assignor of one-sixth to I. Braselton, one-sixth to C. Hicks, one-sixth to N. L. Kneeland, one-sixth to H. J. Blanchard, and one-sixth to M. Heindl, Phillips, Wis. Window structure. 1,474,521; Nov. 20.
Folkman, Morris, assignor of one-half to F. J. Chalus, Cleveland, Ohio. Fastener for cuff buttons, etc. 1,474,352; Nov. 20.
Folsom, Adelbert G., Chicago, Ill. Combined cigarette container and ash tray. Des. 63,291; Nov. 20.
Forber, William, St. Helens, England. Truck for tramcars and the like. 1,474,771; Nov. 20.
Fossa, Joseph, Danvers, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,475,009; Nov. 20.
Foster, Charles A., assignor of one-half to N. Strippy, Baltimore, Md. Game. 1,474,961; Nov. 20.
Foster, Frank E. (See Everett, Thomas L., assignor.)
Foster, John P., Paia, Hawaii. Apparatus for the manufacture of ether. 1,474,772; Nov. 20.
Fowler, Alfred B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Inseam-trimming machine. 1,474,353; Nov. 20.
Franchi, Aldo M., assignor to Franchi Ringless Piston Corporation, New York, N. Y. Piston. 1,474,354; Nov. 20.
Franchi Ringless Piston Corporation. (See Franchi, Aldo M., assignor.)
Frank, Arthur A., Milwaukee, Wis., assignor, by mesne assignments, to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. Des. 63,292; Nov. 20.
Franks, Walter H., Warthen, Ga. Insecticide distributor. 1,474,668; Nov. 20.
Fraser, Leving, Osceola, Ark. Safety device for automobiles. 1,474,522; Nov. 20.
Fraser, Robert O., Seattle, Wash. Food dispenser. 1,474,773; Nov. 20.
Fraser, Warren F., Westboro, assignor to Norton Company, Worcester, Mass. Positively-actuated easy start and stop table-reversing mechanism. 1,474,469; Nov. 20.
Fraser, William D., Cleveland, Ohio. Machine for renewing cartridges. 1,474,355; Nov. 20.
Frattinger, Arthur F., Seattle, Wash. Grate bar. 1,474,818; Nov. 20.
Frawley, Ulysses B., Ogeechee, Ga. Transplanter. 1,475,061; Nov. 20.
French, Charles A., Columbus, Ohio, assignor to International Harvester Company, Chicago, Ill. Fuel burner. 1,474,898; Nov. 20.
French, James C., Chicago, Ill., assignor, by mesne assignments, to F. C. Austin Machinery Company. Loading and conveying apparatus. 1,474,356; Nov. 20.
Fretz, Samuel S., sr. (See Hartzell, Morris H., assignor.)
Fried. Krupp Aktiengesellschaft. (See Barth, Karl, assignor.)
Fried. Krupp Aktiengesellschaft. (See Kruger, Paul, assignor.)
Fried. Krupp Aktiengesellschaft. (See Schön, Ludwig, assignor.)
Fried. Krupp Aktiengesellschift. (See Tobien, Felix, assignor.)
Fritschi, Joseph, and W. P. Hughes, Honolulu, Hawaii. Cane-loading apparatus. 1,474,585; Nov. 20.
Fuld, William. (See Schwarz, Rudolph, assignor.)
Fulk, Murl E., Union Furnace, Ohio. Radiator protector. 1,475,062; Nov. 20.
Fuller, Rufus W., Deerfield, assignor to Production Machine Company, Greenfield, Mass. Belt joint and making same. 1,474,774; Nov. 20.
Funnell, Christopher E. (See Garrett, A. O., Funnell, and Hoffman.)
Gallager, Albert J. (See Laise, C. A., and Gallager.)
Gammell, Alexander. (See Hanney, A. F., and Gammell.)
Gandee, Floyd H., et al. (See Dungan, John E., assignor.)
Garbutt, Frank A., Los Angeles, Calif. Bed. 1,475,010; Nov. 20.
Garrett, Arthur O., San Diego, and C. E. Funnell and W. L. Hoffman, Los Angeles, Calif. Storage-battery-cell top. 1,474,523; Nov. 20.
Garrett, William L., Forney, Tex. Machine for gathering cotton squares. 1,474,627; Nov. 20.
Garrigan, Cornelius J., Millvale, Pa. Oil heater. 1,474,524; Nov. 20.
Gaule, Rose, Peosta, Iowa. Dancing doll. 1,475,064; Nov. 20.
General Paper Goods Manufacturing Co. (See Radzinsky, Harry, assignor.)
Geppert, Frank J., East St. Louis, Ill. Direction signal. 1,475,063; Nov. 20.
Gercke, Maximilian, Pasing, near Munich, Germany. Distillation of bituminous material. 1,474,357; Nov. 20.
Gerhardt, Frederick, San Francisco, Calif. Die for lining bearings. 1,474,775; Nov. 20.
Gerleman, Oscar W., St. Louis, Mo. Means of lubrication. 1,474,819; Nov. 20.
Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches. (See Meissner, Alexander, assignor.)
Gilbertson, August, Minneapolis, Minn. Device for securing and tightening antiskid chains. 1,475,065; Nov. 20.
Gimson, Joseph F., Newcastle, assignor of one-half to Close Brothers & Company Limited, London, England. Apparatus for casting or molding pottery and like articles. 1,474,432; Nov. 20.
Glair, Harry F., and E. J. Wonnacott, assignors to Standard Oil Company (of Indiana), Whiting, Ind. Filtration. 1,474,899; Nov. 20.
Glassbrenner, Walter R., Carlinville, Ill. Apron. 1,474,415; Nov. 20.
Glenn, William H., Quincy, Ill. Mop. 1,474,930; Nov. 20.
Glos, Jacob. (See Bruder, Edmund, assignor.)
Göbel, Adolf, F. Harnisch, and E. C. Janke, Brooklyn, N. Y. Ham boiler. 1,474,713; Nov. 20.
Goldsmith, Lester M., Philadelphia, Pa. Oil burner. 1,474,900; Nov. 20.
Goodhart, Howard B., assignor of one-half to C. A. Potts, Lancaster, Pa. Adjustable piston for engines. 1,474,470; Nov. 20.
Goodhue, Frank M., Van Nuys, Calif., assignor of one-half to J. E. Goodhue, St. Charles, Ill. Transmission mechanism. 1,474,901; Nov. 20.
Goodhue, James E. (See Goodhue, Frank M., assignor.)
Goodyear Tire & Rubber Company, The. (See Shively, Walter E., assignor.)
Gordon, Isaac, Schenectady, N. Y. Gas water heater. 1,474,931; Nov. 20.
Government of the United States. (See Blandy, W. H. P., and Turner, assignors.)
Government of the United States. (See McConnell, James W., assignor.)
Government of the United States. (See Moore, J. J., assignor.)
Government of the United States. (See Myers, Tom B., assignor.)
Government of the United States. (See Uberroth, Frank E. P., assignor.)
Government of the United States. (See Warburg, James P., assignor.)
Grace, John F., Kearney, N. J., assignor to Worthington Pump and Machinery Corporation. Condenser. 1,474,358; Nov. 20.
Grant, Helen M. W., administratrix. (See Grant, William W.)
Grant, William W., deceased, Brooklyn, N. Y.; H. M. W. Grant, administratrix. Fuel-mixture heating and vaporizing device. 1,474,359; Nov. 20.
Grasselli Chemical Company, The. (See Howard, Henry, assignor.)
Graves, Benjamin P., assignor to Brown & Sharpe Mfg. Co., Providence, R. I. Adjustable support for work-holders. 1,474,525; Nov. 20.
Gray, Carlton R. (See Van Nattan, V. V., and Gray.)
Greenberg, James O., New York, N. Y. Pleasure railway. 1,474,962; Nov. 20.
Greenbrier, Harry W., Newark, N. J., assignor, by mesne assignments, to The Greist Manufacturing Company. Safety razor. 1,474,471; Nov. 20.
Greenhalgh, James. (See Davignon, E. A., Barry, and Greenhalgh.)
Greenstein, Leon, New York, N. Y. Fraud-prevention means for cigar boxes. 1,474,963; Nov. 20.
Gregory, Anthony T., Grove City, Pa. Micrometer gauge. 1,475,066; Nov. 20.
Greist Manufacturing Company, The. (See Greenbrier, Harry W., assignor.)
Gries, August L. (See Gries, Frederick W. and A. L.)
Grier, Robert, Hazleton, Pa. Lung protector. 1,474,710; Nov. 20.
Gries, Frederick W. and A. L., Watervliet, N. Y. Accelerator. 1,475,111; Nov. 20.
Griffin, Julius C. (See Hulsmann, A., and Griffin.)
Grimes, William N., Aspinwall Borough, and J. Muenzmay, Pittsburgh, Pa. Educational toy. 1,475,112; Nov. 20.
Grond, Julius B., New York, N. Y. Evaporative refrigerator. 1,475,113; Nov. 20.
Ground Coal Engineering Corporation. (See Arrowood, Milton W., assignor.)
Guggenberger, Leopold, Hastings-on-Hudson, assignor to Rolup Screen Company, New York, N. Y. Edge reenforcement for screens and the like. 1,474,628; Nov. 20.
Gulick, David E., San Francisco, Calif. Water-flushing device. 1,474,472; Nov. 20.
Haas, Philip J., Omaha, Nebr. Poultry beheader. 1,474,711; Nov. 20.
Haas, William, West Hoboken, N. J. Combined ironing-board stand and window jack or seat. 1,475,067; Nov. 20.
Haibe, Ora F., Uniontown, Pa. Internal-combustion motor. 1,474,712; Nov. 20.
Hale, William E., Fort Washington, assignor to R. H. Beaumont Company, Philadelphia, Pa. Skip hoist. 1,474,902; Nov. 20.
Hall, Selden H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Purifying liquids. 1,474,629; Nov. 20.
Halladay, Lewis P., Decatur, Ill. Shock absorber. 1,474,964; Nov. 20.
Halliday, Alonzo L., Oil Center, Calif. Perforation cleaner for oil-well casings. 1,474,630; Nov. 20.
Hamelstrom, Arvid, Nekoma, N. Dak. Piston. 1,475,114; Nov. 20.
Hamilton-Beach Mfg. Co. (See Nielsen, Emanuel, assignor.)
Hamilton, Porter, La Grange, Ky. Escapement. 1,475,068; Nov. 20.

Hanney, Angus F., and A. Gammell, assignors to Eureka Rough Dry Fin Syatem Co., Chicago, Ill. Tag-releasing device. 1,475,011; Nov. 20.
Hanrahan, John H., Guilford, Conn. Hose coupling. 1,474,586; Nov. 20.
Hansen Canning Machinery Corporation. (See Hansen, Oswald H., assignor.)
Hansen, Oswald H., Port Washington, Wis., assignor to Hansen Canning Machinery Corporation. Preserving food. 1,474,820; Nov. 20.
Hansen's, Chr., Laboratory, Inc. (See Monrad, Karl J., assignor.)
Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Milk reliesser. 1,474,669; Nov. 20.
Hapgood, Cryus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Process of and apparatus for resolving emulsions. 1,474,670; Nov. 20.
Hardie, John C., Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for marking soles. 1,474,360; Nov. 20.
Harding, Mont R., Steubenville, Ohio. Stove attachment. 1,475,115; Nov. 20.
Hariveau, Paul. Paris, France. Centrifugal pump. 1,474,671; Nov. 20.
Harnisch, Fredrick. (See Gobel, A., Harnisch, and Janke.)
Harpman, Charles A. (See Pennypacker, Orrie F., assignor.)
Harris, Archer H., Barberton, assignor to H. C. Harris, Akron, Ohio. Shackle for vehicle springs. 1,474,361; Nov. 20.
Harris, Elijah F., assignor to Payson Manufacturing Company, Chicago, Ill. Concealed transom-operating means. 1,475,012; Nov 20.
Harris, Howard C. (See Harris, Archer H., assignor.)
Harris, Jesse, assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Electricity-metering system. 1,474,965; Nov. 20.
Hartman, J. Paul. (See Starr, Thomas C., assignor.)
Hartmann, Charles A., San Antonio, Tex. Automobile headlight device. 1,474,714; Nov. 20.
Hartzell, Morris H., assignor to S. S. Fretz, sr., Philadelphia, Pa. Folding umbrella. 1,474,821; Nov. 20.
Harvey, Ellery H., Lansdale, Pa. Fountain brush. 1,475,116; Nov. 20.
Hase, Rudolf, Hannover, Germany. Pyrometer. 1,474,903; Nov. 20.
Hathaway, Edgar F., Dorchester, Mass., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Combined counting mechanism and weft-controlling mechanism governed thereby. 1,474,416; Nov. 20.
Hauf, George F., Chicago, Ill., assignor to Robertson Brothers Manufacturing Company. Pipe and pipe clamp. 1,474,842; Nov. 20.
Haupt, William F., assignor, by mesne assignments, to The Bates Manufacturing Company, Orange, N. J. Numbering machine. 1,474,715; Nov. 20.
Hauptman, Oscar, New York, N. Y. Pressing device. 1,474,853; Nov. 20.
Haviland, Theodore, & Co. (See Haviland, William D., assignor.)
Haviland, William D., Limoges, France, assignor to Theodore Haviland & Co., Incorporated, New York, N. Y. Dish, bowl, or similar article. Des. 63,293; Nov. 20.
Haviland, William D., Limoges, France, assignor to Theodore Haviland & Co., Incorporated, New York, N. Y. Dish, bowl, or similar article. Des. 63,294; Nov. 20.
Haviland, William D., Limoges, France, assignor to Theodore Haviland & Co., Incorporated, New York, N. Y. Dish, bowl, or similar article. Des. 63,295; Nov. 20.
Haviland, William D., Limoges, France, assignor to Theodore Haviland & Co., Incorporated, New York, N. Y. Dish, bowl, or similar article. Des. 63,296; Nov. 20.
Haviland, William D., Limoges, France, assignor to Theodore Haviland & Co., Incorporated, New York, N. Y. Teapot or similar article. Des. 63,297; Nov. 20.
Hayes, Thomas J., East St. Louis, Ill., assignor to Lewis Felling Machine Company, St. Louis, Mo. Sewing-machine feed mechanism. 1,474,966; Nov. 20.
Heap, Jesse J., Nyack, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Sewing machine for forming concealed stitches. 1,474,362; Nov. 20.
Heidelberger, Henry, et al. (See Starkl, Joseph, assignor.)
Heidenreich, Carl, assignor to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Azo dyestuffs. 1,474,587; Nov. 20.
Heil, Julius P., Milwaukee, Wis. Fluid hoist. 1,474,834; Nov. 20.
Heindl, Martin, et al. (See Folgert, Joseph W., assignor.)
Heine, Ferdinand H., assignor to Koehring Company, Milwaukee, Wis. Traction shoe. 1,474,967; Nov. 20.
Heineman, Mortimer S., Baltimore, Md. Cigar wrapper. 1,474,363; Nov. 20.
Heinrich, Jules. (See Vandergaw, E. B., and Heinrich.)
Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,474,932; Nov. 20.
Henderson, Alexander C. (See Allen, C. H., and Henderson.)
Henigen, Harold A. (See Shrum, P. J., and Henigen.)
Henry, William D., Greenville, Ill. Towing tongue. 1,475,117; Nov. 20.
Henszey, Roy O., Oconomowoc, Wis. Carburetor. 1,474,968; Nov. 20.
Herb, Frederick, Brooklyn, assignor to R. Hoe and Co., New York, N. Y. Sheet control for folding mechanism. 1,474,364; Nov. 20.
Hero Furnace Company. (See Patten, John V., assignor.)
Herold, Walter F., Newark, N. J., assignor to The Basick Company, Bridgeport, Conn. Press mechanism. 1,474,473; Nov. 20.
Heslip, John C. (See Pratt, C. R., and Heslip.)
Hestand, Samuel E., Comanche, Tex. Spoke tightener. 1,474,716; Nov. 20.
Hetrick, Russell D., Indiana, Pa. Thermostatic switch for flatirons. 1,474,588; Nov. 20.
Heuze, Charles, Ouvelais, Belgium. Apparatus for grinding, smoothing, and polishing glass, plate glass, and other material substances. 1,474,672; Nov. 20.
Hicks, Charles, et al. (See Folgert, Joseph W., assignor.)
Higginson, Kingsley, assignor to Carey-Gavey Syndicate Limited, London, England. Cinematographic apparatus. 1,475,013; Nov. 20.
Hill, David, Leicester, England. Heel for boots and shoes. Des. 63,298; Nov. 20.
Hill, William H., et al. (See Dungan, John E., assignor.)
Hines, Gail H., Lake Odessa, Mich. Fish lure. 1,474,823; Nov. 20.
Hoddinott, John F. (See Hoddinott, John K., assignor.)
Hoddinott, John K., assignor of one-half to J. F. Hoddinott, Baltimore, Md. Toy. 1,474,589; Nov. 20.
Hoe, R., and Co. (See Herb, Frederick, assignor.)
Hoff, Carlton L., and G. G. Naugle, York, Pa., assignors to American Chain Company, Inc. Welding machine. 1,474,824; Nov. 20.
Hoffman, Hattie, New York, N. Y. Bobbed-hair holder and roll. 1,474,474; Nov. 20.
Hoffman, William L. (See Garrett, A. O., Funnell, and Hoffman.)
Hogan, Philip, St. Louis, Mo. Seam anchor. 1,474,835; Nov. 20.
Hoge, Daniel W., assignor, by mesne assignments, to Bash Oil and Refining Company, Chicago, Ill. Treating petroleum. 1,474,475; Nov. 20.
Hoge, Daniel W., assignor to Bash Oil and Refining Company, Chicago, Ill. Treating petroleum vapor. 1,474,476; Nov. 20.
Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Controlling mechanism for compressors. 1,474,590; Nov. 20.
Holler, Ralph H. A., Drayton, N. Dak. Potato cutter. 1,474,717; Nov. 20.
Holt Manufacturing Company, The. (See Turnbull, William, assignor.)
Holt Manufacturing Company, The. (See Wickersham, Elmer E., assignor.)
Home Electric Lighting Company. (See Ferguson, Charles H., assignor.)
Hood Rubber Company. (See Roper, Charles H., assignor.)
Hounsfield, Leslie H., Croydon, England. Connecting rod and the cooperating parts of engines, pumps, and the like. 1,474,591; Nov. 20.
House, Henry A., jr., assignor to Wire Wheel Corporation of America, Buffalo, N. Y. Wheel. 1,474,631; Nov. 20.
House, Henry A., jr., assignor to Wire Wheel Corporation of America, Buffalo, N. Y. Wheel. 1,474,632; Nov. 20.
Howard, Frank M., et al. (See Dungan, John E., assignor.)
Howard, George, Michigan City, Ind. Portable cooking outfit. 1,474,825; Nov. 20.
Howard, Henry, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Making artificial cryolite. 1,475,155; Nov. 20.
Howard, Henry, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Making artificial cryolite. 1,475,156; Nov. 20.
Howard, Henry, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Making artificial cryolite. 1,475,157; Nov. 20.
Howard, Henry, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Making artificial cryolite. 1,475,158; Nov. 20.
Howard, Joseph C., Chicago, Ill. Watchcase. 1,475,014; Nov. 20.
Howerton, Jeter F., Grand Rapids, Mich. Nonskid chain. 1,474,526; Nov. 20.
Hoyem, George A., Lennep, Mont. Cleaning implement. 1,475,118; Nov. 20.
Hubach, Gustave, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. Des. 63,300; Nov. 20.
Hubbell, Harvey, Inc. (See Conlan, David, jr., assignor.)
Huber, William E., Chicago, Ill. Door-closing mechanism. 1,475,015; Nov. 20.

Hudec, John D., Cleveland, Ohio. Wrapper for clothing, etc. 1,474,826; Nov. 20.
Huffman, Estil J., Chicago, Ill., assignor to Sears, Roebuck and Co. Truck coupling. 1,474,477; Nov. 20.
Huffman, Estil J., assignor to Sears, Roebuck and Co., Chicago, Ill. Truck coupling. 1,474,478; Nov. 20.
Hughes, Frederick T. (See Mellin, Gustaf A. E., assignor.)
Hughes, Howard R., Houston, Tex. Rotary earth-boring drill. 1,474,633; Nov. 20.
Hughes, William P. (See Fritschi, J., and Hughes.)
Hulsmann, Anton, and J. C. Griffin, San Francisco, Calif. Universal wrist joint for artificial arms. 1,475,119; Nov. 20.
Humason, Granville A., assignor to Texas Pump & Supply Company, Houston, Tex. Pump. 1,474,718; Nov. 20.
Humphreys, Robert E., F. M. Rogers, and O. E. Bransky, Whiting, Ind., assignors to Standard Oil Company (of Indiana), Chicago, Ill. Water-soluble sulphonic acids from petroleum oils and producing the same. 1,474,933; Nov. 20.
Hunt, Floyd D., Burlington, Vt. Sound-reproduction apparatus. 1,474,776; Nov. 20.
Hunt, Sylvester H., Milwaukee, Wis. Steering mechanism for self-propelled vehicles. 1,474,527; Nov. 20.
Hupp, Irvin, assignor to Flexo-Motive Corporation, Chicago, Ill. Combined clutch and brake mechanism. 1,474,365; Nov. 20.
Hurst, William, Winnipeg, Manitoba, Canada. Electrical water heater. 1,474,528; Nov. 20.
Husted, Monroe G., Bridgeton, N. J. Attachment for lathes. 1,474,673; Nov. 20.
Hutchings, George B., Richmond, Va., assignor to Rado-Valv Corporation. Radiator cap. Des. 63,301; Nov. 20.
Hutchins, W. G., et al. (See Rogers, Abby, assignor.)
Hutchison, Frank S., Garrettsville, Ohio. Vehicle brake. 1,475,016; Nov. 20.
Hutchinson, Alfred, administrator. (See Cleary, Edwin.)
Igoe, Bros. (See Woodward, George, assignor.)
Imperial Brass Manufacturing Company. (See Dorsey, Parmer, assignor.)
Imperial Furniture Company. (See Cameron, Thomas C., assignor.)
India Tire and Rubber Company, The. (See Worth, Paul, assignor.)
Ingersoll, William P., (See Walker, Earl C., assignor.)
International Harvester Company. (See French, Charles A., assignor.)
International Harvester Company. (See Lindgren, Alexus C., assignor.)
International Harvester Company. (See Raney, Clemma R., assignor.)
International Motor Company. (See Post, Edwin M., jr., assignor.)
Ireland, Ward S., St. Louis, Mo., assignor, by mesne assignments, to The Davis Sewing Machine Company. Adjustable support for clothes wringers. 1,474,969; Nov. 20.
Ischinger, Eric, assignor of one-half to F. Keiper, Rochester, N. Y. Guard for punch presses. 1,474,366; Nov. 20.
Jacobson, Bernard H., Charleston, W. Va., assignor to E. C. Klipstein & Sons Company, New York, N. Y. Manufacture of metal chlorides. 1,474,479; Nov. 20.
Jacobson, Nels J., Phillips, Wis. Game. 1,474,934; Nov. 20.
Jacoby, Vennie, Fulda, assignor to G. Browning, Park Rapids, Minn. Pliers. 1,474,592; Nov. 20.
Janke, Emil C. (See Gobel, A., Harnisch, and Janke.)
Jaray, Paul, assignor to the Firm: Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung, Friedrichshafen, Germany. Aircraft car. 1,474,529; Nov. 20.
Jarkovsky, Ladislaus, Vienna, Austria. Electric water heater. 1,474,777; Nov. 20.
Jenkins, John E., Chicago, Ill. Combined rheostat and cut-out. 1,474,367; Nov. 20.
Jennings, Ella D., Avon, N. Y. Nursing-bottle holder. 1,474,593; Nov. 20.
Jennison, Clay L. (See Wolcott, B., and Jennison.)
Jensen, Arthur J. M., Randers, Denmark. Manufacturing yeast. 1,474,674; Nov. 20.
Jergesen, James P., assignor to Meidrum Motor Corporation, Buffalo, N. Y. Tractor attachment. 1,475,069; Nov. 20.
Jerram, Arthur E., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on fastenings. 1,474,368; Nov. 20.
Johanns, Henry N., Denver, Colo. Dustless ash remover. 1,474,634; Nov. 20.
Johnson Automatic Sealer Co., Ltd. (See Taylor, W. L., and Richards, assignors.)
Johnson, Bernard A. (See Johnson, Charles O., C. D., and B. A.)
Johnson, Charles D. (See Johnson, Charles O., C. D., and B. A.)
Johnson, Charles O., C. D., and B. A., Worcester, Mass., assignors to Worcester Wire Works, Inc. Method of and means for reducing, straightening, and winding wire. 1,474,778; Nov. 20.
Johnson, Edward D., and E. A. Zempel, assignors to Wetmore Reamer Company, Milwaukee, Wis. Reamer. 1,474,369; Nov. 20.
Johnson, George W., Manufacturing Company. (See Bumbarger, Clarence R., assignor.)

Johnson, Gustav, Mayville, N. Dak. Automatic rain-water valve mechanism. 1,475,120; Nov. 20.
Johnston, George S., Evanston, Ill., assignor to American Optical Company, Southbridge, Mass. Goggles. 1,474,635; Nov. 20.
Johnston, John F., Berkeley, Calif. Paper doll. 1,475,070; Nov. 20.
Jones, Alfred M., Milwaukee, Wis. Compressor for molding machines. 1,475,017; Nov. 20.
Jones, Frank H., Tuinucu, Cuba. Method and apparatus for controlling sugar centrifugals. 1,475,121; Nov. 20.
Jones, Harry B., Chicago, Ill. Granary. 1,474,827; Nov. 20.
Jones, Horry M., Chicago, Ill. Measuring device. 1,474,904; Nov. 20.
Josephson, Helmer G., et al., trustees. (See Josephson, Helmer G., assignor.)
Josephson, Helmer G., Lynn, assignor to F. J. Winchell, Nahant, J. L. Shevenell, Haverhill, and H. G. Josephson, trustees, Lynn, Mass. Apparatus for making shank reenforces. 1,474,719; Nov. 20.
Judd, Edward R., and L. Minnick, Kansas City, Mo. Knife and scissors sharpener. 1,474,636; Nov. 20.
Karlan, Jake, New York, N. Y. Making finger rings. 1,474,828; Nov. 20.
Karpal, Sam, Holmesburg, assignor of one-half to J. Zach, Philadelphia, Pa. File cutter. 1,474,720; Nov. 20.
Keeler, Earl A., Norristown, assignor to Leeds & Northrup Company, Philadelphia, Pa. Method of and apparatus for obtaining ion concentration effects. 1,474,594; Nov. 20.
Keeran, Charles R., assignor, by mesne assignments, to Autopoint Manufacturing Company, Chicago, Ill. Pencil. 1,474,595; Nov. 20.
Keilholtz, Lester S., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Ignition system. 1,474,780; Nov. 20.
Keiper, Frank. (See Ischinger, Eric, assignor.)
Keller, John. (See Mayer, Fritz, assignor.)
Kendall, Allen B., Niagara Falls, assignor to The Regan Safety Devices Company, Inc., New York, N. Y. Combined reservoir and brake valve. 1,474,836; Nov. 20.
Kent, Arthur A., Ardmore, Pa. Induction coil. 1,474,597; Nov. 20.
Kent, Arthur A., Ardmore, Pa. Ignition apparatus. 1,474,970; Nov. 20.
Kent, Frank W., Streatham Hill, London, England. Photographic transfer paper and making same. 1,474,596; Nov. 20.
Kentucky Derby Company. (See Foans, Andrew B., assignor.)
Kenyon, C., Company. (See Mitchell, Harold D., assignor.)
Keszthelyi, Alexander S., Los Angeles, Calif. Tool joint. 1,474,905; Nov. 20.
Klander, Lawrence A., New York, N. Y. Dental surgery. 1,474,370; Nov. 20.
Kimball, George C., and H. G. McIlvried, assignors to American Sheet and Tin Plate Company, Pittsburgh, Pa. Cold-roll-feeding mechanism. 1,474,935; Nov. 20.
Kimball, Wallace D., and A. E. Rideout, New York, N. Y. Single-head-carton-sealing machine. 1,474,480; Nov. 20.
King, Clarence R., assignor to Norton Company, Worcester, Mass. Resilient safety tread. 1,474,481; Nov. 20.
King Machine Tool Company, The. (See Muller, Edward A., assignor.)
King, William E., assignor to Milton Bradley Company, Springfield, Mass. Painting outfit. 1,474,721; Nov. 20.
Kirby, James W., Harlan, Iowa. Stock-watering tank. 1,474,530; Nov. 20.
Kirk, Allen T., Chicago, Ill. Engine starter. 1,474,371; Nov. 20.
Kirkness, Frederick B. (See Kirkness, Frederick B., assignor.)
Kirkness, Frederick B., Yorklyn, assignor of one-half to F. B. Kirkness, Wilmington, Del. Window screen. 1,474,675; Nov. 20.
Kirschbaum, Charles B., Brooklyn, N. Y. Foldable velocipede. 1,474,531; Nov. 20.
Kitowski, Adolf, Norwich, Conn. Removable heelplate. 1,474,837; Nov. 20.
Kliecker, Ralph F., Los Angeles, Calif. Method and means for converting an automobile top into a one-man top. 1,474,838; Nov. 20.
Klipstein, E. C., & Sons Company. (See Jacobson, Bernard H., assignor.)
Kneeland, Norman L., et al. (See Folgert, Joseph W., assignor.)
Knutson, Gotthard H., Pelican Rapids, Minn. Self-closing gate. 1,474,676; Nov. 20.
Koch, Lydia B. (See Thompson, Henry B., assignor.)
Koehler, Henry W., San Ysidro, assignor to R. W. Abbott, San Diego, Calif. Vehicle wheel-steering apparatus. 1,475,122; Nov. 20.
Koehring Company. (See Heine, Ferdinand H., assignor.)
Kohn, Leo M., Philadelphia, Pa. Timing mechanism for folding machines or the like. 1,474,781; Nov. 20.
Kohnle, Frederick, assignor to The Monarch Marking System Company, Dayton, Ohio. Tag-marking machine. 1,474,782; Nov. 20.
Konklin, Henry C., Knox, Ind. Nose ring. 1,474,783; Nov. 20.
Konklin, Henry C., Knox, Ind. Hog ring. 1,474,784; Nov. 20.

Koontz, Edward E., et al. (See Dungan, John E., assignor.)
Kozlowski, Martin, Masontown, Pa. Knife guard. 1,474,722; Nov. 20.
Kramer, Emil M., Morton, assignor to Power Transmitting Company, organized under declaration of trust, Peoria, Ill. Transmission. 1,474,971; Nov. 20.
Krause, Walter J., Chicago, Ill. Hydrocarbon burner. 1,474,677; Nov. 20.
Krüger, Paul, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gear for moving the bottoms of dumping receptacles. 1,474,785; Nov. 20.
Kuhnert, Walter A., San Francisco, Calif. Obtaining borax. 1,474,433; Nov. 20.
Kukovec, Mathew, Chicago, Ill. Shoe. Des. 63,302; Nov. 20.
Kuller, John A., Brooklyn, N. Y. Terminal for electric conductors. 1,474,972; Nov. 20.
Kumler, Roy W., Los Angeles, Calif. Automobile hood construction. 1,474,417; Nov. 20.
Kupfer, A. M. (See Natarman, Henry D., assignor.)
Lack, Fred S., Paducah, Ky. Thermostatic control mechanism for carburetors. 1,474,532; Nov. 20.
La Grassa, Peter. (See Mitchell, H. W., and La Grassa.)
Lahey, Frank T., Akron, Ohio. Plastic material. 1,474,482; Nov. 20.
Laird, Fredrick E., Tarrytown, N. Y. Valve-actuating means. 1,475,123; Nov. 20.
Laird, Mildred A., Renown, Saskatchewan, Canada. Mantle shade. 1,475,071; Nov. 20.
Laise, Clemens A., Weehawken, and A. J. Gallager, West Orange, N. J. Electric heating appliance. 1,474,483; Nov. 20.
Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Railway-car-truck construction. 1,474,598; Nov. 20.
Lane, Henry M. (See Spurrier, Harry, assignor.)
Langerman, Richard A., Louisville, Ky. Waistcoat. 1,475,072; Nov. 20.
Larson, Emil J., Hammond, Ind. Hinge. 1,474,418; Nov. 20.
Larsson, Thure, assignor to Norton Company, Worcester, Mass. Machine for casting bushings. 1,474,484; Nov. 20.
Lassen, Alma M., New York, N. Y. Dress shield. 1,475,018; Nov. 20.
Latshaw, Charles E., Minneapolis, Minn. Decimal-point calculator. 1,474,533; Nov. 20.
Lawrence, William B., Suffolk, Va. Directional signal. 1,474,936; Nov. 20.
Leach, Henry G. and J. S., Brooklyn, N. Y. Amplifying receiver. 1,474,973; Nov. 20.
Leach, Joseph S. (See Leach, Henry G., and J. S.)
Leeds & Northrup Company. (See Behr, Leo, assignor.)
Leeds & Northrup Company. (See Keeler, Earl A., assignor.)
Leidecker, Foster H., assignor, by mesne assignments, to The Leidecker Tool Company, Marietta, Ohio. Wire-rope knife. 1,475,019; Nov. 20.
Leidecker Tool Company, The. (See Leidecker, Foster H., assignor.)
Leisure, John. (See Yetman, O. B., and Leisure.)
Leonard, Jacob A., Rockford, Ill. Valve lifter. 1,474,485; Nov. 20.
Levey, Abraham S., Portland, Me. Automobile signal. 1,475,124; Nov. 20.
Levinson, Marcus M., Pasadena, Calif. Electric heating device. 1,474,723; Nov. 20.
Lewis Felling Machine Company. (See Hayes, Thomas J., assignor.)
Lewis Foundry & Machine Company. (See Bain, J. G., and Stempel, assignors.)
Lewis, George, South Boston, Mass. Tool handle. 1,474,937; Nov. 20.
Liodell, Louise J., New Orleans, La. Automobile-lifter. 1,474,419; Nov. 20.
Lindgren, Alexus C., Evanston, Ill., assignor to International Harvester Company. Flexible disk-plow scraper. 1,474,906; Nov. 20.
Lindsay, Harvey B., assignor to The Dry-Zero Corporation, Oakland, Calif. Refrigerator and ice machine. 1,474,535; Nov. 20.
Lindsten, Albin, White Bear Lake, Minn. Practicing device for learning telegraph and radio codes. 1,474,534; Nov. 20.
Lock-Edge Machine Corporation. (See Wilkes, Clarence H., assignor.)
Long, Albert E., Pittsburgh, Pa. Hod. 1,475,125; Nov. 20.
Longnecker, Clyde G., Chicago, Ill. Bumper. 1,474,974; Nov. 20.
Loret-Fleurance, Louis, Angers, France. Safety-razor guard. 1,474,678; Nov. 20.
Loudy, Flavius E., Philadelphia, Pa. Shock-absorbing wheel. 1,474,420; Nov. 20.
Loy, Thomas H., Bellaire, Ohio. Record-beginning guide for sound-reproducing machines. 1,474,786; Nov. 20.
Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung. (See Erhardt, Julius, assignor.)
Luftschiffbau Zeppelin Gesellschaft mit beschrankter Haftung. (See Jaray, Paul, assignor.)
Lundy, Joseph G., Evergreen, Ala. Walking plow or cultivator. 1,474,637; Nov. 20.
Lurcott, Winfred N., Weehawken, N. J. Wire-strap seal and forming the same. 1,474,372; Nov. 20.
Lutes, John, Ferguson, Iowa. Ironing board. 1,474,536; Nov. 20.
Lutz, Victor G., Paris, France. Hand drill provided with a speed-changing device. 1,474,679; Nov. 20.
Lynchburg Foundry Company. (See Taylor, Walter H., 3d, assignor.)
Lyndon, Lamar, New York, N. Y. Cover for containing cells of electric batteries. 1,474,829; Nov. 20.
Lyndon, Lamar, New York, N. Y. Porous, acid-resisting diaphragm. 1,474,830; Nov. 20.
Lyon, Robert N., assignor of one-third to C. M. Allen, Coeur d'Alene, Idaho. Chain connecter. 1,474,680; Nov. 20.
McBride, Charles B., Sebring, Ohio. Metallic window screen. 1,475,126; Nov. 20.
McClure, Claude H., Oaktown, Ind. Harvester. 1,475,073; Nov. 20.
McCollister, Thurman P., Silver City, N. Mex. Coupler for railway cars. 1,475,127; Nov. 20.
McConnell, James W., Washington, D. C., assignor to Government of the United States. Torpedo. 1,474,724; Nov. 20.
McCormick, John I., Philadelphia, Pa. Bumper. 1,474,907; Nov. 20.
McCoy, Alfred F. (See Allen, A. F., McCoy, and Sternberger.)
McDaniel, Marion R., Oak Park, assignor to H. V. Church, trustee for National Association of Secondary School Principals, Cicero, Ill. Badge. Des. 63,305; Nov. 20.
McDonald, Anthony, et al. (See Pratt, Samuel T., assignor.)
McDonald, Michael J., et al. (See Pratt, Samuel T., assignor.)
McIlvried, Howard G. (See Kimball, G. C., and McIlvried.)
McKay, Chester, Brooklyn, N. Y. Mariner's game. 1,474,539; Nov. 20.
McKee, Joseph E., assignor of one-third to N. E. Woolman and one-third to J. Oppman, Connellsville, Pa. Battery connecter. 1,474,434; Nov. 20.
McLaughlin, Mark, Wilmington, Del. Revolving-brush. 1,475,074; Nov. 20.
McLeod, John, Downing, Wis. Boat. 1,474,725; Nov. 20.
McNeil, Claude P. (See Brinker, J. E., and McNeil.)
McNulty, Martin T., Underwood, Minn. Combined gasket and vaporizer for automobiles and motors. 1,474,540; Nov. 20.
McNutt, Charles E., Columbus, Ohio. Roller bearing. 1,474,600; Nov. 20.
McVicker, Emery M., assignor to J. F. McVicker, Milwaukee, Wis. Rail fastener. 1,474,787; Nov. 20.
McVicker, J. F. (See McVicker, Emery M., assignor.)
McWane, Arthur T., Birmingham, Ala. Pipe coupling. 1,474,435; Nov. 20.
McWane, Arthur T., Birmingham, Ala. Pipe joint. 1,474,436; Nov. 20.
McWane, Arthur T., Birmingham, Ala. Pipe joint. 1,474,437; Nov. 20.
Mackenzie, Fred L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 1,474,373; Nov. 20.
MacMahon, James H., Saltville, Va., assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Manufacture of bleaching-powder solutions. 1,474,831; Nov. 20.
Macpherson, Byron, Roxbury, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Electrical condenser. 1,474,486; Nov. 20.
Macy, Alfred J., Franklin, Pa. Landing indicator for airplanes. 1,475,075; Nov. 20.
Madison Tire & Rubber Company. (See Belden, Russell D., assignor.)
Madsen, Charles C., et al. (See Starkl, Joseph, assignor.)
Magrady, Joseph J., Chicago, Ill. Platform scale. 1,474,681; Nov. 20.
Malaier, Herman E., and F. R. Clark, jr., Rock Mart, Ga. Automatic boiler feeder. 1,475,076; Nov. 20.
Maloney, Daniel, assignor to The Bauer Brothers Company, Springfield, Ohio. Method of and apparatus for treating cottonseed. 1,474,374; Nov. 20.
Mandalian, Sahatiel G., North Attleboro, Mass. Girdle. 1,474,421; Nov. 20.
Mangin, Henri, Armentieres, France. Joints extensible and retractable in all directions for movable platforms without interruption of continuity. 1,475,077; Nov. 20.
Mansbendel, Fritz P., Brooklyn, assignor to Ultra Earphone Co. Inc., New York, N. Y. Electrical coupling. 1,474,975; Nov. 20.
Manwaring, Albert H., assignor of one-half to R. A. Manwaring, Noble, Pa. Brake. 1,474,537; Nov. 20.
Manwaring, Roy A. (See Manwaring, Albert H., assignor.)
Marble, William F., Haverhill, Mass. Clamp. 1,474,908; Nov. 20.
March, Brando, Delmont, Pa. Pendant-cord switch. 1,475,128; Nov. 20.
Marsh, Clifford W., Bridgeport, Conn. Typewriting machine. 1,474,839; Nov. 20.
Marsh, Samuel L., Los Angeles, Calif. Grease interceptor. 1,474,938; Nov. 20.
Martin, Alphonse, Ogdensburg, N. Y. Electric water heater. 1,474,638; Nov. 20.

Martin, John I., Akron, Ohio. Tire tread. Des. 63,303; Nov. 20.
Martin, Julius, Chicago, Ill. Window washing and drying mechanism. 1,474,840; Nov. 20.
Martin, Perry S., Harrisonburg, Va. Seed-sowing device. 1,474,599; Nov. 20.
Marx, Robert J. (See Rabus, Wilhelm, assignor).
Maslen, Frank A., et al. (See Walper, Curry O., assignor.)
Masser, Allan M., assignor to F. M. Davis, Chicago, Ill. Grate bar. 1,475,159; Nov. 20.
Mathieson Alkali Works, Inc., The. (See MacMahon, James H., assignor.)
Matthews, John F., Dover, England. Means for building subaqueous structures such as sea walls, dock walls, and retaining walls, above and below water, and the like. 1,474,538; Nov. 20.
Mattingly, Albertus B., New York, N. Y. Attachment for sewing machines. 1,474,422; Nov. 20.
Maujer, Robert L., Cincinnati, Ohio, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. System of control for synchronous motors driving through clutches. 1,474,976; Nov. 20.
Maxey, Augustus G., Owensboro, Ky. Mail box. 1,474,424; Nov. 20.
Mayer, Charles B., Philadelphia, Pa. Electrical valve. 1,475,129; Nov. 20.
Mayer, Fritz, deceased, Ulm, assignor, by mesne assignments, to J. Keller, Oberlenningen-Teck, Wurttemberg, Germany. Device for distributing fluid pressure to hydraulic couplings. 1,475,020; Nov. 20.
Maynard, Joseph S., Cincinnati, Ohio, assignor to The Richardson Company, Lockland, Ohio. Applying felt insulation. 1,474,423; Nov. 20.
Mayo, Milford C., assignor to The Canton Pneumatic Tool Company, Canton, Ohio. Pressure regulator. 1,474,841; Nov. 20.
Measuregraph Company, The. (See Turner, Douglas, assignor.)
Medveczky, Julius, New York, N. Y. Vaporizing attachment for internal-combustion engines. 1,474,909; Nov. 20.
Meisenburg, Kurt. (See Schulemann, W., Schütz, and Meisenburg.)
Meissner, Alexander, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Arrangement for receiving electrical oscillations. 1,474,726; Nov. 20.
Meldrum Motor Corporation. (See Jergesen, James P., assignor.)
Mellin, Gustaf A. E., assignor to F. T. Hughes, Los Angeles, Calif. Tire lock. 1,474,541; Nov. 20.
Mercedes-Buro-Maschinen- und Waffenwerke. (See Schilins, Carl, assignor.)
Mesinger, Frederick. (See Mesinger, Henry and F.)
Mesinger, Henry, and F., New York, N. Y. Cushion saddle. 1,474,977; Nov. 20.
Messacar, Guy A., Ionia, Mich. Ladder-step bracket. 1,475,078; Nov. 20.
Meuer, Henry, assignor to Seidner & Hitzigrath, Inc., New York, N. Y. Hair-net container. 1,475,130; Nov. 20.
Meyer, Waldemar, Woodhaven, N. Y. Rivet set. 1,474,978; Nov. 20.
Midland Company, The. (See Schartow, Frank E., assignor.)
Milk Oil Corporation, The. (See North, Charles E., assignor.)
Miller, Arthur, assignor to The Solar Metal Products Company, Columbus, Ohio. Metallic receptacle. 1,474,601; Nov. 20.
Milewski, Bruno, Kent, Ohio. Journal-box bearing. 1,475,021; Nov. 20.
Miller, Fred W., Beatrice, Nebr. Rotary brush. 1,475,079; Nov. 20.
Miller, Henry A., assignor to Stephen Sanford & Sons, Inc., Amsterdam, N. Y. Rug. Des. 63,304; Nov. 20.
Miller, Henry A., assignor to Stephen Sanford & Sons, Inc., Amsterdam, N. Y. Rug. 63,306; Nov. 20.
Miller, Henry C., Milwaukee, Wis. Loose-leaf binder. 1,474,602; Nov. 20.
Miller, Ralph D. (See Moore, Samuel S., assignor.)
Miller, Simon, Newark, N. J. Method of and apparatus for truing surfaces. 1,474,487; Nov. 20.
Milton Bradley Company. (See King, William E., assignor.)
Minnick, Louis. (See Judd, E. R., and Minnick.)
Misuraca, Louis J., Los Angeles, Calif. Internal-combustion engine. 1,474,842; Nov. 20.
Mitchell, Harold D., assignor to C. Kenyon Company, Inc., Brooklyn, N. Y. Tire tread. Des. 63,307; Nov. 20.
Mitchell, Harold D., assignor to C. Kenyon Company, Inc., Brooklyn, N. Y. Tire tread. Des. 63,308; Nov. 20.
Mitchell, Harry W., and P. La Grassa, assignors to Night Aero Advertising Corporation, New York, N. Y. Advertising sign. 1,474,682; Nov. 20.
Mitchell, Robert J., Adair, Okla. Gate. 1,475,131; Nov. 20.
Mohawk Carpet Mills, Inc. (See Hathaway, Edgar F., assignor.)
Monaghan, Thomas L., New York, N. Y. Lady's safety pocketbook. 1,475,132; Nov. 20.
Monarch Marking System Company, The. (See Kohnle, Frederick, assignor.)
Monrad, Karl J., assignor to Chr. Hansen's Laboratory, Inc., Little Falls, N. Y. Composition for producing a lactic food of especial digestibility. 1,474,542; Nov. 20.
Montgomery Ward & Co. (See Robertson, Charles A., assignor.)
Moore, George W., Chicago, Ill. Motor-driven manicuring device. 1,475,022; Nov. 20.
Moore, John J., Newport, R. I., assignor to the Government of the United States. Air-flask joint. 1,474,375; Nov. 20.
Moore, Samuel S., assignor of one-half to R. D. Miller, Cleveland, Ohio. Tire valve. 1,475,023; Nov. 20.
Morgan, Garrett A., Cleveland, Ohio. Traffic signal. 1,475,024; Nov. 20.
Morris, M. E. (See Elliott, James F., assignor.)
Morrison, John, jr., Glens Falls, N. Y. Brush. 1,474,979; Nov. 20.
Morse, Albert W., Forest Hills, N. Y. Liquid and gas mixer. 1,474,603; Nov. 20.
Morse, Errett L., assignor to White Brass Castings Company, Chicago, Ill. Timer for ignition systems. 1,474,376; Nov. 20.
Morton, Frank, Muskogee, Okla. Ventilating storage bin. 1,474,683; Nov. 20.
Mueller, L. J., Furnace Company. (See Runnion, Don V., assignor.)
Muenzmay, Joseph. (See Grimes, W. N., and Muenzmay.)
Muir, Charles S., Chevy Chase, Md. Game board. Des. 63,309; Nov. 20.
Muller, Edward, North Bergen, N. J. Vehicle washer. 1,474,543; Nov. 20.
Muller, Edward A., assignor to The King Machine Tool Company, Cincinnati, Ohio. Turret-head for machine tools. 1,474,438; Nov. 20.
Muller, John, Flushing, N. Y., assignor to Decorative Arts League, Jersey City, N. J. Grate. Des. 63,310; Nov. 20.
Mumford, Rose S. (See Allen, A., and Mumford, assignors.)
Mumford, Thomas J., 2d. (See Allen, A., and Mumford.)
Murphy, Walter P. (See Sisson, Vinton E., assignor.)
Murray, Chauncey A., Superior, Wyo. Key holder. 1,475,133; Nov. 20.
Myers, Tom B., Newport, R. I., assignor to the Government of the United States. Torpedo. 1,474,377; Nov. 20.
Narayan, Prem, Bijnor, India. Fountain pen. 1,474,611; Nov. 20.
Nash, Martin, et al. (See Rogers, Abby, assignor.)
Naterman, Henry D., Los Angeles, assignor to A. M. Kupfer, Pasadena, Calif. Adjustable visor for vehicle windshields. 1,474,727; Nov. 20.
National Blank Book Company. (See Schade, John, assignor.)
Naugle, Girardus G. (See Hoff, C. L., and Naugle.)
Nelson, Albert, deceased, Worcester, Mass.; E. J. Nelson, administratrix, assignor to E. J. Nelson, Worcester, Mass. Die-reaming machine. 1,474,939; Nov. 20.
Nelson, Evelyn J. (See Nelson, Albert, assignor.)
Nelson, Evelyn J., administratrix. (See Nelson, Albert.)
Nelson, John, assignor of one-half to E. Anderson, Chicago, Ill. Game apparatus. 1,474,488; Nov. 20.
Nelson, Rose H., Wessington Springs, S. Dak. Basket carrier. 1,474,728; Nov. 20.
Newman, John J. and L. L., Rockwood, Pa. License-card holder. 1,475,025; Nov. 20.
Newman, Lloyd L. (See Newman, John J. and L. L.)
Nicholson, Joshua B., Washington, D. C. Automatic dirigible lamp support. 1,475,080; Nov. 20.
Nielsen, Emanuel, assignor to Hamilton-Beach Mfg. Co., Racine, Wis. Sewing-machine motor. 1,474,604; Nov. 20.
Night Aero Advertising Corporation. (See Mitchell, H. W., and La Grassa, assignors.)
Nitrum Aktiengesellschaft. (See Siebert, Werner, assignor.)
Norma Company of America, The. (See Cooper, Thomas W., assignor.)
North, Charles E., Montclair, N. J., assignor to The Milk Oil Corporation. Making artificial milk. 1,474,843; Nov. 20.
Northwestern Expanded Metal Company. (See Dean, James H., assignor.)
Norton Company. (See Fraser, Warren F., assignor.)
Norton Company. (See King, Clarence R., assignor.)
Norton Company. (See Larsson, Thure, assignor.)
Nowell, Edward E., Manchester, N. H. Means for controlling the traverse of yarn guides on spinning machines. 1,474,544; Nov. 20.
Oakes, Russell E., Waukesha, Wis. Card holder. 1,475,134; Nov. 20.
Oberreich, Louie H. (See Bailey, Chester I., assignor.)
Ogden, John E., Cornwall, N. Y. Concrete insert. 1,474,729; Nov. 20.
Ogden, John E., Mountainville, Cornwall, N. Y. Expansion shield. 1,474,980; Nov. 20.
Okamoto, Kusubide, Honolulu, Hawaii. Rim tool. 1,475,135; Nov. 20.
Olsen, Tinius, assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Testing machine. 1,474,545; Nov. 20.
Olsen, Tinius, Testing Machine Company. (See Olsen, Tinius, assignor.)

Olson, Axel E., Eskilstuna, Sweden. Steel stamp. 1,475,136; Nov. 20.
Olson, Walter E., Chicago, Ill. Support for dyeing or drying rugs or the like. 1,475,026; Nov. 20.
Oppenheim, Julius, New York, N. Y. Support for alarm clocks. 1,475,137; Nov. 20.
Oppman, Joseph, et al. (See McKee, Joseph E., assignor.)
Optische Anstalt C. P. Goerz Aktiengesellschaft. (See Urban, Franz, assignor.)
Osterhoudt, Rodney B., Kingston, N. Y. Cigar moistener. 1,474,684; Nov. 20.
Ozlek, Morris, Philadelphia, Pa. Adjustable construction. 1,474,981; Nov. 20.
Page, Samuel H., Stratford, Conn., assignor to The American Fabrics Company. Lace. Des. 63,311 Nov. 20.
Page, Samuel H., Stratford, Conn., assignor to The American Fabrics Company. Lace. Des. 63,312; Nov. 20.
Pakulski, Anthony, Kingsdale, Minn. Boot and rubber-shoe removing jack. 1,474,546; Nov. 20.
Palm, Victor H., Butler, Pa. Pump. 1,474,439; Nov. 20.
Palmer, Lyndon C., Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Ontario, Canada. Making paper boxes. 1,474,844; Nov. 20.
Pannier, Arthur A., Salt Lake City, Utah. Pliers for ear tags. 1,474,547; Nov. 20.
Pape, Max C. A. H., Neumuhlen-Dietrichsdorf, near Kiel, assignor to the Firm Carbonit-Aktiengesellschaft, Hamburg, Germany. Fuse. 1,474,548; Nov. 20.
Parenti, Joseph S., assignor to Parenti Motors Corporation, Buffalo, N. Y. Motor vehicle. 1,475,138; Nov. 20.
Parenti Motors Corporation. (See Parenti, Joseph S., assignor.)
Parks, George E., Detroit, Mich. Locomotive frame. 1,474,730; Nov. 20.
Parks, Robert D., assignor to W-M-P Manufacturing Co., Lohrville, Iowa. Pop-corn kettle. 1,475,081; Nov. 20.
Parnell, William R., St. Paul, Minn. Milk-bottle handle. 1,474,685; Nov. 20.
Parr, George R., West Orange, N. J. Centrifugal. 1,474,845; Nov. 20.
Parr, George R., West Orange, N. J. Means for reducing vibration of centrifugals. 1,474,846; Nov. 20.
Parsons, Harold E., assignor to American Optical Company, Southbridge, Mass. Trial frame. 1,474,788; Nov. 20.
Paseka, John. (See Pinkosh, Michael, assignor.)
Patten, John V., assignor to Hero Furnace Company, Chicago, Ill. Air-washer humidifier for furnaces. 1,474,639; Nov. 20.
Patterson, Louis L., Chicago, Ill. Internal-combustion-engine vaporizing attachment. 1,474,605; Nov. 20.
Paull, Wallace H., Birmingham, assignor to The Dunlop Rubber Company, Limited, London, England. Tire tread. Des. 63,313; Nov. 20.
Payson Manufacturing Company. (See Harris, Elijah P., assignor.)
Pearson, George C., London, England. Telephone cable. 1,475,139; Nov. 20.
Pease, Emma C., Nantucket, Mass. Box. Des. 63,314; Nov. 20.
Penn Seaboard Steel Corporation. (See Briner, Frank, assignor.)
Penning, Cornelis J. H., London, England. Internal-combustion engine. 1,474,549; Nov. 20.
Pennypacker, Orrie F., assignor of one-half to C. A. Harpman, Youngstown, Ohio. Open-hearth furnace. 1,474,606; Nov. 20.
Pepper, David, Philadelphia, Pa. Machine for casting thin metal cups. 1,474,489; Nov. 20.
Perkins, Edwin A., Jamaica, N. Y. Spindle. 1,474,490; Nov. 20.
Perkins, Edwin A., Jamaica, N. Y. Silk spindle. 1,474,491; Nov. 20.
Perkins, Philip R., Columbus, Ohio. Drier. 1,474,940; Nov. 20.
Perky, Scott H., Keeseville, N. Y. Cereal cup. Des. 63,315; Nov. 20.
Petersen, Peter A., assignor to Standard Oil Company, Whiting, Ind. Candle-supporting cup for candle bases. 1,474,910; Nov. 20.
Phaneuf, Toussaint, Washington, D. C. Resilient tire. 1,475,140; Nov. 20.
Pharis, Carl, Newark, Ohio, assignor to The Western Auto Supply Company. Tire. 63,316; Nov. 20.
Pharis, Carl, assignor to The Pharis Tire and Rubber Co., Newark, Ohio. Tire. Des. 63,317; Nov. 20.
Pharis Tire and Rubber Co., The. (See Pharis, Carl, assignor.)
Philbrook, Ralph W., Sherman, Calif. Clamp for stopping leaks on pipes. 1,474,550; Nov. 20.
Phillips, Archie Y., and C. Thompson, La Crosse, Wis. Refrigerator. 1,474,847; Nov. 20.
Pierson, Harry W., deceased, Princeton, Ill., S. W. Pierson, administratrix. Hay loader. 1,474,492; Nov. 20.
Pierson, Selma W., administratrix. (See Pierson, Harry W., assignor.)
Piza, Joseph S., Owendale, Mich. Lock. 1,475,082; Nov. 20.
Pilkington Brothers Limited. (See Pilkington, William N., assignor.)
Pilkington, William N., assignor to Pilkington Brothers Limited, St. Helens, England. Sheet glass. Des. 63,318; Nov. 20.
Pilkington, William N., assignor to Pilkington Brothers Limited, St. Helens, England. Sheet glass. Des. 63,319; Nov. 20.
Pilkington, William N., assignor to Pilkington Brothers Limited, St. Helens, England. Sheet glass. Des. 63,320; Nov. 20.
Pinkosh, Michael, assignor of one-half to J. Paseka, Minneapolis, Minn. Device for treating pie dough. 1,474,640; Nov. 20.
Pirson, Frank, Kansas City, Mo. Lamp body. Des. 63,321; Nov. 20.
Pitou, Eugene, New York, N. Y. Suspended scaffold. 1,474,941; Nov. 20.
Pittsburgh Lamp, Brass & Glass Company. (See Yokel, Frank, assignor.)
Pittsburgh Transformer Company. (See Bingay, Robert V., assignor.)
Platt-Hepworth, Robert, Paddington, Sydney, New South Wales, Australia. Automatic fuel-economizing apparatus for internal-combustion engines. 1,474,686; Nov. 20.
Podolsky, Henry, San Francisco, Calif. Fishing apparatus. 1,474,731; Nov. 20.
Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Attaching machine. 1,474,378; Nov. 20.
Portner, William M., Freeport, Ill. Mop wringer. 1,475,083; Nov. 20.
Post, Edwin M., jr., assignor to International Motor Company, New York, N. Y. Self-propelled railway car. 1,474,732; Nov. 20.
Potts, Charles A. (See Goodhart, Howard B., assignor.)
Pouler, Paul P., Waterville, Me. Window-shade bracket. 1,474,552; Nov. 20.
Power Transmitting Company, organized under declaration of trust. (See Kramer, Emil M., assignor.)
Powers, Bert, Gaston, Ind. Separator element. 1,474,440; Nov. 20.
Powers, Fred W., Chicago, Ill. Pilot burner. 1,474,641; Nov. 20.
Pownall, Henry D., Canton, Ohio. Artificial-ice-making apparatus. 1,474,551; Nov. 20.
Pratt, Charles R., Montclair, N. J., and J. C. Heslip, Kansas City, Mo.; said Heslip assignor to said Pratt. Cable-tension-equalizing device. 1,474,911; Nov. 20.
Pratt, Samuel T., assignor of one-fourth to M. J. McDonald and A. V. McDonald, Nanticoke, Pa. Miner's ticket box. 1,474,553; Nov. 20.
Price, Stephen C., Louisiana, Mo. Measuring and dispensing device for liquids. 1,474,554; Nov. 20.
Probst, Karl, Toledo, Ohio. Electric-vehicle control. 1,474,942; Nov. 20.
Production Machine Company. (See Fuller, Rufus W., assignor.)
Proudfit, William S., Walker Township, Kent County, Mich. Filing device. 1,474,642; Nov. 20.
Purington, Orren D., Providence, R. I. Concrete floor construction. 1,474,441; Nov. 20.
Putnam, Paul, White Plains, Ky. Churn. 1,475,084; Nov. 20.
Quinn, Edward F., Chicopee, Mass. Making game balls. 1,474,943; Nov. 20.
Rabus, Wilhelm, Karlstad, Sweden, assignor to R. J. Marx, London, England. Beating engine. 1,474,442; Nov. 20.
Raby, James B., jr., York, Pa. Fruit drier. 1,474,687; Nov. 20.
Radio Corporation of America, The. (See Round, Henry J., assignor.)
Radio-Valy Corporation. (See Hutchings, George B., assignor.)
Radzinsky, Harry, assignor to General Paper Goods Manufacturing Co., New York, N. Y. Patch-applying mechanism for window envelopes. 1,474,913; Nov. 20.
Raiche, Paul A., assignor to Davol Rubber Company, Providence, R. I. Electric perforating device. 1,474,912; Nov. 20.
Rail Joint Company, The. (See Disbrow, Clarkson A., assignor.)
Rail Joint Company, The. (See Wolhaupter, Benjamin, assignor.)
Randall, Eugene F., assignor to American Radio & Research Corporation, Medford, Mass. Detector for wireless signals. 1,475,027; Nov. 20.
Raney, Clemma R., Chicago, Ill., assignor to International Harvester Company. Shocker twine-guiding arm. 1,474,914; Nov. 20.
Rawley, Wayne, assignor to Blaw-Knox Company, Pittsburgh, Pa. Annealing bottom. 1,474,607; Nov. 20.
Regan Safety Devices Company, The. (See Kendall, Allen B., assignor.)
Reilly, William J., Denver, Colo. Apparatus for separating oil from oil-bearing sands and rocks. 1,475,028; Nov. 20.
Re Qua, Frederick L., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Distant indicating means. 1,474,944; Nov. 20.
Rhoden, John W., Hosford, Fla. Entry recorder. 1,474,789; Nov. 20.
Rhyne, Robert B., Cape Girardeau, Mo. Spoon. 1,474,443; Nov. 20.
Richards, Charles F. (See Taylor, W. L., and Richards.)

Richards, Henry J., Columbus, Ohio. Spoon holder. 1,474,733; Nov. 20.
Richardson Company, The. (See Maynard, Joseph S., assignor.)
Richardson, George R., Greene, N. Dak. Vehicle spring. 1,474,688; Nov. 20.
Richardson, Harry H., assignor to The Union Drawn Steel Company Limited, Hamilton, Ontario, Canada. Grinding machine. 1,475,085; Nov. 20.
Richardson, Rodney G., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. 1,474,608; Nov. 20.
Richardson, Willard C., Saugus, Mass. Shoe form. 1,474,444; Nov. 20.
Richmond, Francis P. (See Richmond, William A., and F. P.)
Richmond, William A. and F. P., assignors to F. A. Brown, San Francisco, Calif. Combined exhibiting and vending device. 1,475,141; Nov. 20.
Rideout, Arthur E. (See Kimball, W. D., and Rideout.)
Ried, Henrita F. H., assignor to The Borden Company, New York, N. Y. Utensil for dispensing heavy fluids. 1,474,848; Nov. 20.
Riegel Sack Company, The. (See White, Joseph, assignor.)
Riener, Frank. (See Riener, Lorenz and F.)
Riener, Lorenz and F., Deer Park, Ohio. Saw set. 1,474,564; Nov. 20.
Risk, Loren, Minneapolis, Minn. Applying cement patches. 1,475,029; Nov. 20.
Robertson Brothers Manufacturing Company. (See Hauf, George F., assignor.)
Robertson, Charles A., Springfield, assignor to Montgomery Ward & Co., Inc., Chicago, Ill. Separator-bowl construction. 1,474,379; Nov. 20.
Robinson, Clarence R., Brooklyn, N. Y. Means for producing composition articles. 1,474,565; Nov. 20.
Robinson, Thomas, Babylon, N. Y., assignor to Anaconda Sales Company. Strip-roofing construction. 1,474,380; Nov. 20.
Robinson, William. (See Faber, L. W., and Robinson.)
Roby, Rhea T., et al., executrices. (See Talmage, John G.)
Rockwood, George I., Worcester, Mass. Exhauster for dry-pipe systems. 1,474,915; Nov. 20.
Rodriguez, Ramon M., New York, N. Y. Box for talcum powder and similar material. Des. 63,323; Nov. 20.
Roe, Mayo E., assignor to The Colson Company, Elyria, Ohio. Juvenile vehicle. 1,474,493; Nov. 20.
Rogers, Abby, assignor to M. Nash and W. G. Hutchins, Seattle, Wash. Fuel mixer for internal-combustion engines. 1,474,791; Nov. 20.
Rogers, Elmer D., Detroit, Mich. Desiccated malt extract and producing the same. 1,474,381; Nov. 20.
Rogers, Francis M. (See Humphreys, R. E., Rogers, and Bransky.)
Rogerson, Thomas B., Glasgow, Scotland. Cogging and rolling mill for iron and steel. 1,474,734; Nov. 20.
Rognlie, Adolph B., Shelly, Minn. Separable rim. 1,474,555; Nov. 20.
Rolup Screen Company. (See Guggenberger, Leopold, assignor.)
Roman, Anthony T., North Brookfield, Mass. Fan attachment for rockers. 1,475,160; Nov. 20.
Root, Chapman J., Terre Haute, Ind. Bottle. Des. 63,324; Nov. 20.
Root, Chapman J., Terre Haute, Ind. Bottle. Des. 63,325; Nov. 20.
Root, Chapman J., Terre Haute, Ind. Bottle. Des. 63,326; Nov. 20.
Roper, Charles H., assignor to Hood Rubber Company, Watertown, Mass. Tire. Des. 63,327; Nov. 20.
Rose, Henry W., Victoria, Tex. Oil reclaimer and purifier. 1,475,086; Nov. 20.
Rosel, Charles, Newark, Ohio. Hedge and grass trimmer. 1,474,916; Nov. 20.
Rosenfield, Manuel, Alameda, Calif. Juice extractor. 1,474,849; Nov. 20.
Ross Manufacturing Company, The. (See Bartlett, William D., assignor.)
Round, Henry J., London, England, assignor to The Radio Corporation of America, New York, N. Y. Apparatus for wireless telegraphy and telephony. 1,474,382; Nov. 20.
Rowlands, Percy O., Liverpool, England. Motor vehicle or other power-transmission mechanism. 1,474,643; Nov. 20.
Rudloff, Vincent E., Maplewood, N. J. Stair construction. 1,474,850; Nov. 20.
Rüegger, Eduard, Zurich, Switzerland. Refrigerating machine. 1,474,851; Nov. 20.
Rüegsegger, Walter, Matzingen, Switzerland. Bung for liquid containers. 1,475,142; Nov. 20.
Rule Form Machine Company. (See Appelquist, Erik, assignor.)
Runnion, Don V., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis. Furnace-casing-attaching means. 1,474,609; Nov. 20.
Rupp, Raymond C., Kendallville, Ind. Closed automobile body. 1,474,689; Nov. 20.
Russell, Edward A., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Train-pipe end valve. 1,474,790; Nov. 20.
Russell, Leslie A., Chicago, Ill., assignor, by mesne assignments, to F. C. Austin Machinery Company. Wagon loader. 1,474,383; Nov. 20.
Russell, Thomas C., Chicago, Ill. Electric heating unit. 1,474,384; Nov. 20.
Ruttinger, Henry, Buffalo, N. Y. Valve remover. 1,474,792; Nov. 20.
Ryback, Anthony S., Depew, N. Y. Mechanical toy. 1,474,852; Nov. 20.
Sackett, Pomeroy D., St. Paul, Minn. Automatic shut-off valve for fuel tanks. 1,474,556; Nov. 20.
Saco-Lowell Shops. (See Feaster, Edward B., assignor.)
Sallade, William E. (See Sterling, M. C., and Sallade.)
Sanders, Alfred J., Spokane, Wash. Electric lamp. 1,474,735; Nov. 20.
Sanford, Stephen, & Sons, Inc. (See Miller, Henry A., assignor.)
Sarpy, George, et al. (See Dominguez, Manuel D., assignor.)
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow-Hartford Carpet Company, Rug. Des. 63,328; Nov. 20.
Schade, John, assignor to National Blank Book Company, Holyoke, Mass. Detachable filler for memorandum books. 1,474,494; Nov. 20.
Schafer, Earl W., Chicago, Ill. Steering wheel and manufacture. 1,474,644; Nov. 20.
Schartow, Frank E., Racine, assignor to The Midland Company, South Milwaukee, Wis. Nonskid device. 1,474,610; Nov. 20.
Schaub, Ferdinand, deceased, Jersey City, N. J.; H. W. Schaub, executrix. Insulator. 1,474,736; Nov. 20.
Schaub, Henrietta W., executrix. (See Schaub, Ferdinand.)
Schaub, James A., et al. (See Dungan, John E., assignor.)
Schavey, Earl T., Grand Ledge, Mich. Drive mechanism for speedometers. 1,474,557; Nov. 20.
Schellberg, Oscar B., New York, N. Y. Operating table. 1,475,143; Nov. 20.
Schettler, Gustav A., Leicester, England, assignor to The Turner Tanning Machinery Company, Peabody, Mass. Measuring machine. 1,474,385; Nov. 20.
Schildener, Friedrich F. W., Zschieren, near Dresden, Germany. Device for treating chocolate masses or other materials. 1,474,945; Nov. 20.
Schilling, Barney, assignor to The Empire Tinware Company, Brooklyn, N. Y. Suspension means for vessels. 1,474,645; Nov. 20.
Schlüns, Carl, Thuringia, assignor to Mercedes Büro-Maschinen- und Waffenwerke, Post Mehlis, Germany. Typewriter. 1,474,917; Nov. 20.
Schmidt, Gustave F., Chicago, Ill. Gas heater. Des. 63,329; Nov. 20.
Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Turbine-blade structure. 1,474,386; Nov. 20.
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Endless-track motor car. 1,474,918; Nov. 20.
Scholl, Barney. (See Scholl, William H. and B.)
Scholl, William H. and B., Houston, Tex. Salad dressing. 1,474,445; Nov. 20.
Schön, Ludwig, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Electric switch device. 1,475,144; Nov. 20.
Schoneberger, Gerhard G., Oak Park, Ill. Pneumatic tire. 1,474,387; Nov. 20.
Schorer, George G., North Freedom, Wis. Apparatus for separating fibrous and nonfibrous materials in food products. 1,474,566; Nov. 20.
Schreiber, Walter T., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Nonfreezing fuel. 1,474,982; Nov. 20.
Schreiber, Walter T., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Motor fuel. 1,474,983; Nov. 20.
Schroeder, Charles S., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Controlling means. 1,474,446; Nov. 20.
Schroeder, Charles S., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Electrical controlling means. 1,474,447; Nov. 20.
Schulemann, Werner, Vohwinkel, L. Schütz, and K. Meisenburg, Elberfeld, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Ester of substituted amino propyl alcohol. 1,474,567; Nov. 20.
Schuster, Thomas, Phoenix, Ariz. Mold for concrete pipes. 1,475,145; Nov. 20.
Schütz, Ludwig. (See Schulemann, W., Schütz, and Meisenburg.)
Schwarz, Rudolph, Pittsburgh, Pa., assignor, by mesne assignments, to W. Fuld, Baltimore, Md. Rocker. Des. 63,330; Nov. 20.
Scroggins, Allen C., jr., et al. (See Dungan, John E., assignor.)
Scott, Alexander A., Knoxville, Tenn., assignor to Baltimore Trust Company, trustee. Apparatus for removing burnt brick from a kiln, stack, pile, or the like. 1,474,793; Nov. 20.
Scott, Joseph F., Denver, Colo., assignor to The J. H. Day Company. Pan shifter. 1,474,448; Nov. 20.

Seaborne, Allever B., London, England. Priming and straining device for screw and centrifugal pumps. 1,474,449; Nov. 20.

Sears, Roebuck and Co. (See Huffman, Estil J., assignor.)

Sebring, Charles L., assignor to The Sebring Pottery Company, Sebring, Ohio. Sugar bowl. Des. 63,331; Nov. 20.

Sebring, Charles L., assignor to The Sebring Pottery Company, Sebring, Ohio. Cream pitcher. Des. 63,332; Nov. 20.

Sebring, Charles L., assignor to The Sebring Pottery Company, Sebring, Ohio. Cup. Des. 63,333; Nov. 20.

Sebring Pottery Company, The. (See Sebring, Charles L., assignor.)

Segal Metal Products Company. (See Segal, Samuel, assignor.)

Segal, Samuel, assignor to Segal Metal Products Company, Inc., New York, N. Y. Cylinder lock. 1,474,495; Nov. 20.

Seidner & Hitzigrath, Inc. (See Meuer, Henry, assignor.)

Septer, James W., Sun City, Kans. Pipe-lifting jack. 1,475,146; Nov. 20.

Shapiro, Solomon A., Montreal, Quebec, Canada. Float-operated switch. 1,475,087; Nov. 20.

Shaw, Harold F., assignor to F. A. Whitney Carriage Company, Leominster, Mass. Making articles of wickerware. 1,475,151; Nov. 20.

Sheaff, Philip A., Philadelphia, Pa. Sphygmomanometer. 1,474,853; Nov. 20.

Sheer, Henry M., Quincy, Ill. Ball-valve control. 1,475,030; Nov. 20.

Sheldon, Albert N., Ventura, Calif. Apparatus for walking on water. 1,475,031; Nov. 20.

Shepherd, Frank D., Aurora, Ill. Internal-combustion engine. 1,474,794; Nov. 20.

Shepherd, Frank D., Detroit, Mich. Internal-combustion engine. 1,474,795; Nov. 20.

Shevenell, John L., et al, trustees. (See Josephson, Helmer G., assignor.)

Shimek, John A. (See Specht, L. M., and Shimek.)

Shipley, Thomas, York, Pa. Hinged door. 1,474,496; Nov. 20.

Shively, Josephine, Sausalito, Calif. Incense burner. Des. 63,334; Nov. 20.

Shively, Walter L., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Pneumatic-tire flap. 1,475,147; Nov. 20.

Shrum, Peter J., Monaca Heights, and H. A. Henigen, Rochester, assignors to Colona Manufacturing Company, Pittsburgh, Pa. Mechanism for making thread protectors. 1,475,032; Nov. 20.

Shugart, Frederick R., Sacramento, Calif. Wheelbarrow. 1,474,919; Nov. 20.

Siebert, Werner, Laufenburg, Aargau, assignor to Nitrum Aktiengesellschaft, Zurich, Switzerland. Concentrating aqueous nitric acid by means of sulphuric acid. 1,474,647; Nov. 20.

Simbol, Harry, assignor of one-third to J. G. Barilko, Edmonton, Alberta, Canada. Combination lock. 1,475,033; Nov. 20.

Sine, Boyd, Romney, W. Va. Valve-grinder attachment. 1,475,148; Nov. 20.

Sisler, Charles O. (See Cooper, R. E., and Sisler.)

Sisson, Vinton E., assignor to W. P. Murphy, Chicago, Ill. Operating device for car couplers. 1,474,796; Nov. 20.

Skinner, Bronson C., assignor to Skinner Machinery Company, Dunedin, Fla. Drive and trip mechanism for conveyers. 1,474,558; Nov. 20.

Skinner Machinery Company. (See Skinner, Bronson C., assignor.)

Slater, Mabel H., New York, N. Y. Smoking doll. 1,475,034; Nov. 20.

Smith, Arthur B., Evanston, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. 1,474,648; Nov. 20.

Smith, Christian, New York, N. Y. Bank. Des. 63,335; Nov. 20.

Smith, Donald H., Adelaide, South Australia, Australia. Resilient wheel. 1,474,737; Nov. 20.

Smith, Edward E., El Paso, Tex. Store apparatus. 1,475,149; Nov. 20.

Smith, Herbert M., assignor to Stanley Insulating Company, Great Barrington, Mass. Heat-insulating material. 1,474,559; Nov. 20.

Smith, Walter. (See Fagan, Joseph A., assignor.)

Snyder, Charles A., Philadelphia, Pa. Treatment of artificial silk. 1,474,560; Nov. 20.

Snyder, Henry, Chicago, Ill. Signaling device. 1,475,035; Nov. 20.

Society of Chemical Industry of Basle. (See De Montmollin G., and Spieler, assignors.)

Solar Metal Products Company, The. (See Miller, Arthur, assignor.)

Sonnekes, Frederick J., assignor to E. P. Babcock, Portland, Oreg. Relief and transparencies of plastic material. 1,474,561; Nov. 20.

Sparrow, Arthur, assignor to American Steel Foundries, Chicago, Ill. Brake-beam fulcrum. 1,474,946; Nov. 20.

Specht, Louise M., and J. A. Shimek, Chicago, Ill. Fireplace heater. 1,475,088; Nov. 20.

Spicer, Delphin H., assignor to The Dyer Company, Cleveland, Ohio. Beet-slicing machine. 1,474,797; Nov. 20.

Spieler, Josef. (See De Montmollin, G., and Spieler.)

Spire, William H., assignor to The Steel Products Company, Cleveland, Ohio. Drag link. 1,474,854; Nov. 20.

Spray Engineering Company. (See Collins, Bertrand R. T., assignor.)

Spurrier, Harry, assignor of one-half to H. M. Lane, Detroit, Mich. Detergent. 1,474,690; Nov. 20.

Stamm, George T. (See Stebler, F., and Stamm.)

Stamp, Hugo O., assignor to The Stamp Machine Company, Milwaukee, Wis. Conveying apparatus. 1,474,855; Nov. 20.

Stamp Machine Company, The. (See Stamp, Hugo O., assignor.)

Stancombe, Thomas R., Bristol, England. Combined electric cooker and water-heater apparatus. 1,474,562; Nov. 20.

Standard Oil Company. (See Brinker, J. E., and McNeil, assignors.)

Standard Oil Company. (See Petersen, Peter A., assignor.)

Standard Oil Company (of Indiana.) (See Glair, H. F., and Wonnacott, assignors.)

Standard Oil Company (of Indiana). (See Humphreys, R. E., Rogers, and Bransky, assignors.)

Stanley Insulating Company. (See Smith, Herbert M., assignor.)

Stanley, Stanley J. (See Burt, M. A., and Stanley.)

Stark, Ludwig, assignor to "Flexo" Wrench and Tool Company, Chicago, Ill. Wrench or tool. 1,474,798; Nov. 20.

Starkey, Melinda A., Los Angeles, Calif. Fruit snip. 1,474,799; Nov. 20.

Starkl, Joseph, assignor of one-half to H. Heidelberger, and one-half to C. C. Madsen, Chicago, Ill. Envelope opener. 1,474,856; Nov. 20.

Starr, Thomas C., assignor, by mesne assignments, of one-half to J. P. Hartman, San Francisco, Calif. Davenport. 1,474,947; Nov. 20.

Stebler, Fred, Riverside, and G. T. Stamm, Upland, assignors to Stebler Parker Co., Riverside, Calif. Box-handling apparatus. 1,474,857; Nov. 20.

Stebler Parker Co. (See Stebler, F., and Stamm, assignors.)

Steel Products Company, The. (See Spire, William H., assignor.)

Steele, Harney G., Johnstown, Pa. Holder for nonskid chains. 1,474,563; Nov. 20.

Steen, Axel W., assignor of one-half to J. C. Foelsing, Los Angeles, Calif. Takedown camp stove. 1,474,646; Nov. 20.

Stegmann, Louis A., assignor to Cinema Advertising Corporation, Newark, N. J. Display device. 1,474,388; Nov. 20.

Stempel, Laszlo M. (See Bain, J. G., and Stempel.)

Stephenson, Edward M., Hartford, Conn. Portable letter file. 1,474,948; Nov. 20.

Sterling, Myron C., Mifflinburg, and W. E. Sallade, Turbotville, Pa. Thread-cleaning attachment for textile machinery. 1,475,036; Nov. 20.

Sternberger, Robert O. (See Allen, A. F., McCoy, and Sternberger.)

Stewart, Austin B. (See Campbell, T. A., Damon, and Stewart.)

Stiefel, Ralph C., Ellwood City, Pa. Making seamless tubes. 1,474,800; Nov. 20.

Stolper, Isaac, New York, N. Y. Dental appliance. 1,474,497; Nov. 20.

Storm, Adolph, assignor to Storm Manufacturing Company, Minneapolis, Minn. Cylinder-finishing tool. 1,474,649; Nov. 20.

Storm Manufacturing Company. (See Storm, Adolph, assignor.)

Storr, Bert E., Bayview, Wash. Combined rake and rock remover. 1,474,650; Nov. 20.

Stransky, Leo G., Pukwana, S. Dak. Vacuum feed tank for automobiles. 1,474,450; Nov. 20.

Street, Claude E., assignor to Florida Grapefruit Canning Company, Inc., Bradentown, Fla. Crusher. 1,474,801; Nov. 20.

Strippy, Norman. (See Foster, Charles A., assignor.)

Strohbach, Henry, New York, N. Y. Coffee urn. 1,474,858; Nov. 20.

Stückelberger, Théodore, Montmirail, Switzerland. Electric candle. 1,474,451; Nov. 20.

Sullivan Machinery Company. (See Holdsworth, Fred D., assignor.)

Summers, Thomas I., Hamilton, Ontario, Canada. Combination lock. 1,475,089; Nov. 20.

Sundh, August, Hastings-on-Hudson, N. Y. Flexible tubing. 1,474,949; Nov. 20.

Swanstrom, John M., Chicago, Ill. Shock absorber. 1,474,498; Nov. 20.

Swart, Walter G., Duluth, Minn. Sintering apparatus. 1,474,859; Nov. 20.

Sweney, Harry K., Denver, Colo. Conduit coupling. 1,475,150; Nov. 20.

Swinehart, Benjamin C., Sandusky, Ohio. Tire tread. Des. 63,336; Nov. 20.

Sylvester, Andrew C. (See Sylvester, George H. and A. C.)

Sylvester, George H. and A. C., Cary Station, Ill. Shovel. 1,474,568; Nov. 20.

Symington, T. H., Company, The. (See Weston, Arthur H., assignor.)

Szita, George, assignor of one-half to J. B. Cunningham, San Antonio, Tex. Engine head. 1,474,452; Nov. 20.

Talbot, John W., Chicago, Ill. Manufacturing composition toilet seats and similar articles. 1,474,860; Nov. 20.

Talmage, Allie O., et al., executrices. (See Talmage, John G.)

Talmage, John G., deceased, Cleveland, Ohio; A. O. Talmage and R. T. Roby, executrices. Automatic connector for train pipes. 1,474,920; Nov. 20.

Taylor, Charles G., Kindersley, Saskatchewan, Canada. Retaining device for demountable rims. 1,474,453; Nov. 20.

Taylor, Edward C., Longmeadow, Mass. Wrapping machine. 1,474,651; Nov. 20.

Taylor, Ernest C., Elyria, Ohio. Furnace. 1,474,499; Nov. 20.

Taylor, Walter H., 3d, Norfolk, assignor to Lynchburg Foundry Company, Lynchburg, Va. Flexible pipe joint. 1,475,090; Nov. 20.

Taylor, William L., and C. F. Richards, assignors to Johnson Automatic Sealer Co., Ltd., Battle Creek, Mich. Flap lifter for carton-sealing machines. 1,474,691; Nov. 20

Telfer, Archibald S., Houston, Tex. Centrifugal pump. 1,474,454; Nov. 20.

Temperli, Eduard H., El Cerrito, Calif. Combination square. 1,474,652; Nov. 20.

Ten Eyck, Otto W. (See Trowbridge, A. B., and Ten Eyck.)

Texas Pump & Supply Company. (See Humason, Granville A., assignor.)

Thierjung, Mathew, assignor of one-half to V. Bika, Cleveland, Ohio Child's safety crib blanket. 1,474,738; Nov. 20.

Thimgren, Edward, Popotla, Mexico. Pistol. 1,475,037; Nov. 20.

Thole, George R., Chicago, Ill. Foot rest. 1,474,950; Nov. 20.

Tomas, Jacob P., San Jose, Calif. Valve controlling or locking means. 1,474,802; Nov. 20.

Tomas, Joseph, Aberdeen, Wash. Vapor bath. 1,475,091; Nov. 20

Thomas, Stephen J., Youngstown, Ohio. Stop signal and rear light. 1,474,739; Nov. 20.

Thomas, Stephen J., Youngstown, Ohio. Tail light and stop signal. 1,474,740; Nov. 20.

Thompson, Clarence. (See Phillips, A. Y., and Thompson.)

Thompson, Henry B., assignor to L. B. Koch, New York, N. Y. Cinematographic target. 1,474,951; Nov. 20.

Thorp, Arline N. C., New York, N. Y. Identification device. 1,474,861; Nov. 20.

Thurau, Charles W., Oil City, Pa. Tire-chain coupling. 1,474,692; Nov. 20.

Tibado, Clarence H. (See Clark, G. L., and Tibado.)

Tidewater Paper Mills Company. (See Allen, A. F., McCoy, and Sternberger, assignors.)

Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Test lens. 1,474,803; Nov. 20.

Tinsman, Edgar A. (See De Holczer, Louis, assignor.)

Tobien, Felix, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Overload-circuit breaker. 1,474,693; Nov. 20.

Tobien, Felix, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Overload-circuit breaker. 1,474,694; Nov. 20.

Toffelmeyer, Charles H., assignor of one-half to S. S. Curtis, Hamilton, Ontario, Canada. Building tile. 1,475,092; Nov. 20.

Tolbert, Herbert, Belle Harbor, N. Y. Molding machine. 1,474,862; Nov. 20.

Topp-Stewart Tractor Co. (See Bowker, Harold G., assignor.)

Torno, Karl L., Berkeley, Calif. Tile and manufacturing the same. 1,474,653; Nov. 20.

Traveler Rubber Company of Bethlehem, U. S. A., The. (See de la Rigaudiere, Guy, assignor.)

Tresnak, William J., Lake Worth, Fla. Butter churn. 1,474,741; Nov. 20.

Trippi, Samuel, Buffalo, N. Y. Goblet or similar article. Des. 63,337; Nov. 20.

Trippi, Samuel, Buffalo, N. Y. Goblet or similar article. Des. 63,338; Nov. 20.

Trowbridge, Alexander B., Flushing, N. Y., and O. W. Ten Eyck, Glen Ridge, N. J. Wall Structure. 1,474,389; Nov. 20.

Trowbridge, Alexander B., Flushing, N. Y., and O. W. Ten Eyck, Glen Ridge, N. J. Vault and safe construction. 1,474,390; Nov. 20.

Trust, Lucis. (See Dougherty, Elmer E., assignor.)

Tucker, Albert B., Birmingham, Ala. Storage crate case. 1,475,093; Nov. 20.

Tunnell, Harry E., assignor to Fire Gun Manufacturing Company, Inc., New York, N. Y. Air vent for containers having pumps. 1,475,038; Nov. 20.

Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Steering and transmission mechanism. 1,474,742; Nov. 20.

Turner, Douglas, assignor to The Measuregraph Company, St. Louis, Mo. Calculating machine. 1,474,863; Nov. 20.

Turner, Richmond K. (See Blandy, W. H. P., and Turner.)

Turner Tanning Machinery Company, The. (See Schettler, Gustav A., assignor.)

Turnquist, Anna S., Minneapolis, Minn. Vanity case. 1,475,039; Nov. 20.

Tuttle, John C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Solid tire. 1,475,094; Nov. 20.

Tyrrell, Richard G., Cranberry Creek, N. Y., Fish measure. 1,474,804; Nov. 20.

U. S. Industrial Alcohol Co. (See Schreiber, Walter T., assignor.)

U. S. Industrial Alcohol Co. (See Willkie, Herman F., assignor.)

Uberroth, Frank E. P., Newport, R. I., assignor to Government of the United States. Torpedo. 1,474,391; Nov. 20.

Ultra Earphone Co. (See Mansbendel, Fritz P., assignor.)

Underwood Computing Machine Company. (See Wright, Walter, assignor.)

Underwood Typewriter Company. (See Helmond, William F., assignor.)

Union Drawn Steel Company, The. (See Richardson, Harry H., assignor.)

Union Metal Manufacturing Company, The. (See Drumm, Herbert C., assignor.)

Union Special Machine Company. (See Heap, Jesse J., assignor.)

Universal Metal Products Company. (See Church, Ira A., assignor.)

United Shoe Machinery Corporation. (See Bates, Arthur, assignor.)

United Shoe Machinery Corporation. (See Duplessis, René E., assignor.)

United Shoe Machinery Corporation. (See Erickson, Edward, assignor.)

United Shoe Machinery Corporation. (See Farrar, Frederick W., assignor.)

United Shoe Machinery Corporation. (See Fossa, Joseph, assignor.)

United Shoe Machinery Corporation. (See Fowler, Alfred B., assignor.)

United Shoe Machinery Corporation. (See Hardie, John C., assignor.)

United Shoe Machinery Corporation. (See Jerram, Arthur E., assignor.)

United Shoe Machinery Corporation. (See Mackenzie, Fred L., assignor.)

United Shoe Machinery Corporation. (See Pope, Joseph H., assignor.

Urbach, Gustave A., Pittsburgh, Pa. Liquid sprayer. 1,474,655; Nov. 20.

Urbach, Gustave A., Pittsburgh, Pa. Tire-treating machine. 1,474,654; Nov. 20.

Urban, Franz, Steglitz, near Berlin, Germany, assignor to the Firm of Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Four-lens objective. 1,474,743; Nov. 20.

Vandergaw, Edward B., Brooklyn, and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 63,339; Nov. 20.

Vandergaw, Edward B., Brooklyn, and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 63,340; Nov. 20.

Vandergaw, Edward B., Brooklyn, and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 63,341; Nov. 20.

Vandergaw, Edward B., Brooklyn, and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 63,342; Nov. 20.

Vandergaw, Edward B., Brooklyn, and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 63,343; Nov. 20.

Van Hees, Henri, Madison, N. J. Flytrap. 1,475,095; Nov. 20.

Van N Air Spring Company. (See Van Nattan, V. V., and Gray, assignors.)

Van Nattan, Verle V., and C. R. Gray, assignors to Van N Air Spring Company, San Francisco, Calif. Air spring. 1,474,656; Nov. 20.

Van Ness, Frank A., assignor of one-half to L. G. Barnhart, Yonkers, N. Y. Paint and varnish remover. 1,474,084; Nov. 20.

Van Steenbergen, Carl, Newton, Iowa. Tire chain. 1,475,040; Nov. 20.

Van Vlissingen, Peter, Chicago, Ill. Purging device. 1,474,392; Nov. 20.

Van Wart, John W., South Nyack, N. Y. Compression indicator. 1,475,096; Nov. 20.

Vapor Car Heating Company. (See Russell, Edward A., assignor.)

Vester, Alfred, Sons, Inc. (See Ainsworth, George, assignor.)

Viuson, Arthur T., Jacksonville, Fla. Shipping receptacle. 1,474,455; Nov. 20.

Visitacion, Aniceto, Brooklyn, N. Y. Combination check pen protector. 1,474,744; Nov. 20.

Vogt, Frank P. (See Vogt, Philip A. and F. P.)

Vogt, Philip A. and F. P., Chicago, Ill. Building. 1,474,864; Nov. 20.

Vollmer, William F., Akron, and J. N. De Muth, Pembroke, N. Y. Honey extractor. 1,474,865; Nov. 20.
Von Auw, Alwin, assignor to Boorum & Pease Company, Brooklyn, N. Y. Plug hinge for loose-leaf binders. 1,474,866; Nov. 20.
Vreeland, George W., Steubenville, Ohio. Screen for dust catchers. 1,474,921; Nov. 20.
W-M-P Manufacturing Co. (See Parks, Robert D., assignor.)
Wadleigh, Roy L., Luverne, Iowa. Staple-pulling implement. 1,474,569; Nov. 20.
Wagenhorst, James H., Akron, Ohio. Metal wheel. 1,475,161; Nov. 20.
Wagner, Isaac, Walla Walla, Wash. Trap. 1,474,805; Nov. 20.
Walker, Earl C., assignor to W. P. Ingersoll, Canton, Ill. Hydrocarbon burner. 1,474,867; Nov. 20.
Walker, John B., Brooklyn, N. Y., and A. R. Bond, Plainfield, N. J. Director firing system. 1,474,745; Nov. 20.
Walker, Lewis M., Cranston, R. I. Machine making or operating upon elliptical objects. 1,474,868; Nov. 20.
Walker, Lewis M., Cranston, R. I. Turning head for lathes. 1,474,869; Nov. 20.
Walker, Pat J. (See Day, H. J., and Walker.)
Wallace, William W., Bucyrus, Ohio. Brick-handling fork. 1,474,806; Nov. 20.
Wallis, Louise A., Los Angeles, Calif. Doll. Des. 63,344; Nov. 20.
Walper, Curry O., assignor of one-third to F. A. Maslen and one-third to B. E. Clark, Detroit, Mich. Plaster board. 1,474,657; Nov. 20.
Walsh, Patrick J., Worcester, Mass. Conveyer. 1,474,393; Nov. 20.
Warburg, James P., Washington, D. C., assignor to Government of the United States. Magnetic compass. 1,474,394; Nov. 20.
Ward, George S., New York, N. Y. Manufacture of leavened bread. 1,474,746; Nov. 20.
Warren, Charles B., Atlanta, Ga., assignor to Draper Corporation, Hopedale, Mass. Feeler for looms. 1,474,985; Nov. 20.
Warren, Paskie, Peoria, Ill. Locomotive stake. 1,474,658; Nov. 20.
Watrous, Earl G., Chicago, Ill. Lavatory waste. 1,474,986; Nov. 20.
Watson, Charles N., assignor of one-half to W. H. Clark, St. Joseph, Mo. Underwear. 1,475,097; Nov. 20.
Watson, Cornelius B., Columbus, Ohio. Petroleum-refining apparatus. 1,474,395; Nov. 20.
Watson, Thomas, Ray, Minn. Endless-track lug. 1,474,456; Nov. 20.
Watson, Thomas R., Monterey, Calif. Gas saver and coaster brake. 1,474,570; Nov. 20.
Webber, Charles R. (See Bradley, R. E., and Webber.)
Weidlich Bros. Mfg. Co., The. (See Flauder, Alfred J., assignor.)
Weinberg, Lowell C., and H. E. Brannon, Dayton, Ohio. Intrairplane mail transfer. 1,474,457; Nov. 20.
Welty, Rufus W., San Francisco, Calif. Automobile rim. 1,475,098; Nov. 20.
Wenclaski, Robert F., Detroit, Mich. Case for automobile signals. Des. 63,345; Nov. 20.
Wessale, Edward, Waconia, Minn. Apparatus for preparing cane for extraction. 1,474,870; Nov. 20.
Wessale, Edward, Waconia, Minn. Apparatus for preparing cane for extraction. 1,474,871; Nov. 20.
Western Auto Supply Company, The. (See Pharis, Carl, assignor.)
Westinghouse Electric and Manufacturing Company. (See Flanders, Warren B., assignor.)
Westinghouse Electric and Manufacturing Company. (See Schmidt, Henry F., assignor.)
Weston, Arthur H., assignor to The T. H. Symington Company, New York, N. Y. Draft rigging. 1,474,987; Nov. 20.
Weston, Arthur H., assignor to The T. H. Symington Company, New York, N. Y. Cheek plate. 1,474,988; Nov. 20.
Wetmore Reamer Company. (See Johnson, E. D., and Zempel, assignors.)
Wherry, John A., New Orleans, La. Collated worksheets. 1,474,747; Nov. 20.
White Brass Castings Company. (See Morse, Errett L., assignor.)
White, Joseph, deceased, Middlesex; M. E. White, administratrix, assignor to The Riegel Sack Company, Jersey City, N. J. Web-handling mechanism. 1,474,748; Nov. 20.
White, Minnie E., administratrix. (See White, Joseph.)
White, William E., Chicago, Ill. Concrete form and support. 1,474,659; Nov. 20.
White, William E., Chicago, Ill. Form support. 1,474,660; Nov. 20.
Whitney, F. A., Carriage Company. (See Shaw, Harold F., assignor.)
Whitson, Delmar A., Los Angeles, Calif. Producing sound records. 1,474,695; Nov. 20.
Whitstock, Otto M., New York, N. Y. Changeable-picture device. 1,474,572; Nov. 20.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor-frame suspension. 1,474,749; Nov. 20.
Wielgolaski, Frans H. A., Christiania, Norway. Reaction turbine for water, wind, steam, etc. 1,474,571; Nov. 20.
Wilkes, Clarence H., assignor to Lock-Edge Machine Corporation, Gloversville, N. Y. Glove. 1,474,573; Nov. 20.
Wilkes, Frederick W., Sparkhill, Birmingham, England. Emergency handle for domestic receptacles. 1,474,696; Nov. 20.
Wilkison, William W., Avalon, Mo. Anchor. 1,474,458; Nov. 20.
Williamson, Sydney W., and E. Disher, Cincinnati, Ohio. Desk. Des. 63,346; Nov. 20.
Willis, George H., Detroit, Mich. Conveyer. 1,475,099; Nov. 20.
Willkie, Herman F., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Recovering glycerin. 1,474,750; Nov. 20.
Wilner, Ragnar A. W., Long Island City, N. Y. Carpet-sweeper attachment. 1,475,100; Nov. 20.
Wilsey Incorporated. (See Wilsey, Irven H., assignor.)
Wilsey, Irven H., Chicago, Ill., assignor, by mesne assignments, to Wilsey Incorporated. Internal-combustion engine. 1,474,697; Nov. 20.
Wilson, James F., Kensington, Md. Shift bar for typewriting machines. 1,474,751; Nov. 20.
Winchell, Freeman J., et al., trustees. (See Josephson, Helmer G., assignor.)
Winggvist, Erik H., Utbynas Villastad, near Gottenborg, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Manufacturing gear wheels. 1,474,500; Nov. 20.
Winter, Ernest, Cannstatt, near Stuttgart, Germany. Picture and pattern behind which a light-reflecting metallic sheet is laid. 1,474,698; Nov. 20.
Winters, Robert E., Coraopolis, assignor of one-half to A. C. Dean, Pittsburgh, Pa. Speed-change mechanism. 1,474,752; Nov. 20.
Wire Wheel Corporation of America. (See House, Henry A., jr., assignor.)
Wireless Specialty Apparatus Company. (See Macpherson, Byron, assignor.)
Wisbrock, Chris, West Chicago, Ill. Reenforced board. 1,474,699; Nov. 20.
Wise-McClung Manufacturing Company, The. (See Adams, Thomas O., assignor.)
Wissman, Joseph H., East Cleveland, Ohio. Hot-water boiler. 1,474,989; Nov. 20.
Wisner, Charles E. (See Bogusch, Emil G., assignor.)
Wisner, Charles E. (See Cooper, Lyman M., assignor.)
Withycombe, Robert M., Sydney, New South Wales, Australia. Brush for shaving, massaging, or other toilet purposes. 1,475,101; Nov. 20.
Withycombe, Robert M., Sydney, New South Wales, Australia. Toothbrush. 1,475,102; Nov. 20.
Witt, Clarence W., Wheeling, W. Va. Laundry tub. 1,474,872; Nov. 20.
Wolcott, Bernard, Buffalo, N. Y., and C. L. Jennison, Washington, D. C. Protecting fabric against rot. 1,474,574; Nov. 20.
Wolhaupter, Benjamin, New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Insulating end post. 1,474,459; Nov. 20.
Wonnascott, Edward J. (See Glair, H. F., and Wonnascott.)
Wood, Joe H., Wadesboro, La. Ventilating blind. 1,475,103; Nov. 20.
Woodward, George, Newark, N. J., assignor to Igoe Bros. Reel carrier. 1,474,873; Nov. 20.
Woolman, N. E., et al. (See McKee, Joseph E., assignor.)
Worcester Wire Works, Inc. (See Johnson, Charles O., C. D., and B. A., assignors.)
Worth, Paul, Akron, assignor to The India Tire and Rubber Company, Mogadore, Ohio. Tire tread. Des. 63,347; Nov. 20.
Worth, Paul, Akron, assignor to The India Tire and Rubber Company, Mogadore, Ohio. Tire tread. Des. 63,348; Nov. 20.
Worthington Pump and Machinery Corporation. (See Grace, John F., assignor.)
Wright, Oliver S., Philadelphia, Pa. Stop mechanism for phonographs and the like. 1,474,501; Nov. 20.
Wright, Walter, San Francisco, Calif., assignor, by mesne assignments, to Underwood Computing Machine Company. Billing and computing attachment to typewriters. 1,474,425; Nov. 20.
Wright, Walter, assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. 1,474,990; Nov. 20.
Wright, Walter, assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. 1,475,152; Nov. 20.
Wright, Wilbur L., Fulton, N. Y. Rendering paper and other fibrous material impervious to grease. 1,474,502; Nov. 20.
Wright, Wilbur L., Fulton, N. Y. Coating composition and paper material coated therewith. 1,474,503; Nov. 20.
Wulle, William A., St. Louis, Mo. Paper-baling machine. 1,474,874; Nov. 20.
Yale & Towne Manufacturing Company, The. (See Schroeder, Charles S., assignor.)
Yerger, Charles W., Boston, Mass., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit controller. 1,474,991; Nov. 20.

Yetman, Oscar B., and J. Leisure, Coffeyville, Kans. Oil tester. 1,474,807; Nov. 20.
Yokel, Frank, Avalon, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Lamp standard. Des. 63,349; Nov. 20.
Yokel, Frank, Avalon, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Lamp standard. Des. 63,350; Nov. 20.
York, James H., Etowah, Tenn. Combination tool. 1,475,104; Nov. 20.
Young, Charles D., Philadelphia, Pa. Rail-joint insulation. 1,474,700; Nov. 20.
Zach, John. (See Karpal, Sam, assignor.)
Zapis, William, Jersey City, N. J. Shoe lacing. 1,474,396; Nov. 20.
Zdzieblo, John, Irvington, N. J. Feed bag for horses. 1,474,922; Nov. 20.
Zempel, Edward A. (See Johnson, E. D., and Zempel.)
Zink, H. J., et al. (See Dungan, John E., assignor.)
Zrebiec, Rose, Beaver Falls, Pa. Flower-display holder. 1,474,753; Nov. 20.
Zuber, John G., Chicago, Ill. Gauge. 1,474,992; Nov. 20.
Zucco, Pierre, San Francisco, Calif. Tunnel construction. 1,474,808; Nov. 20.
Zur Kammer, August, Hagen, Germany. Tile for walls, floors, ceilings, and the like. 1,474,779; Nov. 20.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF NOVEMBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Accelerator. F. W. and A. L. Gries. 1,475,111; Nov. 20.
Acids from petroleum oils and producing the same, Water-soluble sulphonic. R. E. Humphreys, F. M. Rogers, and O. E. Bransky. 1,474,933; Nov. 20.
Adjustable construction. M. Oziek. 1,474,981; Nov. 20.
Advertising display device. J. W. Alstott. 1,475,041; Nov. 20.
Air-flask joint. J. J. Moore. 1,474,375; Nov. 20.
Air spring. F. S. Church. 1,475,049; Nov. 20.
Air spring. V. V. Van Nattan and C. R. Gray. 1,474,656; Nov. 20.
Air vent for containers having pumps. H. E. Tunnell. 1,475,038; Nov. 20.
Aircraft car. P. Jaray. 1,474,529; Nov. 20.
Air plane landing indicator. A. J. Macy. 1,475,075; Nov. 20.
Airship. J. Erhardt. 1,474,517; Nov. 20.
Alcohol, Ester of substituted amino propyl. W. Schulemann, L. Schütz, and K. Meisenburg. 1,474,567; Nov. 20.
Amplifying receiver. H. G. and J. S. Leach. 1,474,973; Nov. 20.
Anchor. W. W. Wilkison. 1,474,458; Nov. 20.
Animal trap. W. Cooper. 1,474,406; Nov. 20.
Annealing bottom. W. Rawley. 1,474,607; Nov. 20.
Anthraquinone from a sulphonation mass, Recovering residual. A. E. Barnard. 1,474,507; Nov. 20.
Antiskid chains, Device for securing and tightening. A. Gilbertson. 1,475,065; Nov. 20.
Antiskidding device. T. L. Everett. 1,474,518; Nov. 20.
Apron. W. R. Glassbrenner. 1,474,415; Nov. 20.
Aqueous nitric acid by means of sulphuric acid, Concentrating. W. Siebert. 1,474,647; Nov. 20.
Arms, Universal wrist joint for artificial. A. Hulsmann and J. C. Griffin. 1,475,119; Nov. 20.
Ash remover, Dustless. H. N. Johanns. 1,474,634; Nov. 20.
Attaching machine. J. H. Pope. 1,474,378; Nov. 20.
Automobile body, Closed. R. C. Rupp. 1,474,689; Nov. 20.
Automobile cabinet. C. A. Beach. 1,474,704; Nov. 20.
Automobile hood construction. R. W. Kumler. 1,474,417; Nov. 20.
Automobile ignition, Lock switch for. J. E. Barker. 1,474,506; Nov. 20.
Automobile jack foot. W. J. Bain. 1,474,428; Nov. 20.
Automobile lifter. L. J. Liddell. 1,474,419; Nov. 20.
Automobile light and license holder. G. Curran. 1,475,108; Nov. 20.
Automobile rear axles, Differential mechanism for. J. J. Bishop. 1,474,399; Nov. 20.
Automobile rim. R. W. Welty. 1,475,098; Nov. 20.
Automobile signal. A. S. Levey. 1,475,124; Nov. 20.
Automobile signals, Case for. R. F. Wenclaski. Des. 63,345; Nov. 20.
Automobile top into a one-man top, Method and means for converting an. R. F. Klecker. 1,474,838; Nov. 20.
Automobile vacuum-feed tank. L. G. Stransky. 1,474,450; Nov. 20.
Automobiles and motors, Combined gasket and vaporizer for. M. T. McNulty. 1,474,540; Nov. 20.
Automobiles, Mounting of illuminators or headlights for. E. T. Curran. 1,474,815; Nov. 20.
Automobiles, Safety device for. L. Fraser. 1,474,522; Nov. 20.
Awning control, Interior. F. R. Ashley. 1,474,505; Nov. 20.
Azo dyestuffs. C. Heidenreich. 1,474,587; Nov. 20.
Badge. M. R. McDaniel. Des. 63,305; Nov. 20.
Bag: *See*—
  Hand bag. Shopping bag.
Balls, Making game. E. F. Quinn. 1,474,943; Nov. 20.
Bank. C. Smith. Des. 63,335; Nov. 20.
Bar: *See*—
  Grate bar.
Basket carrier. R. H. Nelson. 1,474,728; Nov. 20.
Bath: *See*—
  Vapor bath.
Batteries, Cover for containing cells of electric. L. Lyndon. 1,474,829; Nov. 20.
Battery connecter. J. E. McKee. 1,474,434; Nov. 20.
Bearing, Journal. C. Dueker. 1,475,110; Nov. 20.
Bearing, Roller. C. E. McNutt. 1,474,600; Nov. 20.
Bearlugs, Die for lining. F. Gerhardt. 1,474,775; Nov. 20.
Beating engine. W. Rabns. 1,474,442; Nov. 20.
Bed. F. A. Garbutt. 1,475,010; Nov. 20.

Beet-slicing machine. D. H. Spicer. 1,474,797; Nov. 20.
Bell ringer, Pneumatic. A. E. Biliger. 1,474,925; Nov. 20.
Belt joint and making same. R. W. Fuller. 1,474,774; Nov. 20.
Belt, Motor. R. D. Edwards. 1,474,666; Nov. 20.
Bin: *See*—
  Storage bin.
Binder, Loose-leaf. H. C. Crozier. 1,475,054; Nov. 20.
Binder, Loose-leaf. H. C. Miller. 1,474,602; Nov. 20.
Binders, Plug hinge for loose-leaf. A Von Auw. 1,474,866; Nov. 20.
Bituminous material, Distillation of. M. Gercke. 1,474,357; Nov. 20.
Blanket, Child's safety crib. M. Thierjung. 1,474,738; Nov 20.
Bleaching-powder solutions, Manufacture of. J. H. MacMahon. 1,474,831; Nov. 20.
Blind, Ventilating. J. H. Wood. 1,475,103; Nov. 20.
Board: *See*—
  Ironing board. Reenforced board.
  Plaster board.
Boat. J. McLeod. 1,474,725; Nov. 20.
Boiler: *See*—
  Ham boiler. Water boiler.
Boiler feeder, Automatic. H. E. Malaier and F. R. Clark, jr. 1,475,076; Nov. 20.
Books, Detachable filler for memorandum. J. Schade. 1,474,494; Nov. 20.
Boot and rubber-shoe removing jack. A. Pakulski. 1,474,546; Nov. 20.
Borax, Obtaining. W. A. Kuhnert. 1,474,433; Nov. 20.
Boring drill, Rotary earth-. H. R. Hughes. 1,474,633; Nov. 20.
Bottle. C. J. Root. Des. 63,324–6; Nov. 20.
Bottle handle, Milk-. W. E. Parnell. 1,474,685; Nov. 20.
Bottle holder, Nursing-. E. D. Jennings. 1,474,593; Nov. 20.
Box: *See*—
  Mail box. Ticket box.
Box. E. C. Pease. Des. 63,314; Nov. 20.
Box-handling apparatus. F. Stebler and G. T. Stamm. 1,474,857; Nov. 20.
Boxes, Fraud-prevention means for cigar. L. Greenstein. 1,474,963; Nov. 20.
Bracket: *See*—
  Ladder-step bracket. Shade bracket.
Brake: *See*—
  Electromagnetic brake. Vehicle brake.
Brake. A. H. Manwaring. 1,474,537; Nov. 20.
Brake beam fulcrum. A. Sparrow. 1,474,946; Nov. 20.
Bread-cooling apparatus. H. J. Buck. 1,474,619; Nov. 20.
Bread, Manufacture of leavened. G. S. Ward. 1,474,746; Nov. 20.
Breath deflector. N. W. Aasen. 1,475,105; Nov. 20.
Brick from a kiln, stack, pile, or the like, Apparatus for removing burnt. A. A. Scott. 1,474,793; Nov. 20.
Brick-handling fork. W. W. Wallace. 1,474,806; Nov. 20.
Bridge construction. R. Z. Drake. 1,474,513; Nov. 20.
Bridling apparatus. J. G. Bain and L. M. Stempel. 1,474,755; Nov. 20.
Brush. J. Morrison, jr. 1,474,979; Nov. 20.
Brush for shaving, massaging, or other toilet purposes. R. M. Withycombe. 1,475,101; Nov. 20.
Brush, Fountain. E. H. Harvey. 1,475,116; Nov. 20.
Brush, Revolving. M. McLaughlin. 1,475,074; Nov. 20.
Brush, Rotary. F. W. Miller. 1,475,079; Nov. 20.
Bucket, Sand. M. L. Crowl. 1,474,707; Nov. 20.
Building. P. A. and F. P. Vogt. 1,474,864; Nov. 20.
Building subaqueous structures, such as sea walls, dock walls, and retaining walls, above and below water, and the like, Means for. J. F. Matthews. 1,474,538; Nov. 20.
Bumper. C. G. Longnecker. 1,474,974; Nov. 20.
Bumper. J. I. McCormick. 1,474,907; Nov. 20.
Bung for liquid containers. W. Rliegsegger. 1,475,142; Nov. 20.
Burner: *See*—
  Fuel burner. Oil burner.
  Hydrocarbon burner. Pilot burner.
  Liquid-fuel burner.
Burnishing irons, Heater for rotary. J. Di Dario. 1,474,410; Nov. 20.
Bushings, Machine for casting. T. Larsson. 1,474,484; Nov. 20.

Cable-tension-equalizing device. C. R. Pratt and J. C. Heslip. 1,474,911; Nov. 20.
Calculating machine. D. Turner. 1,474,863; Nov. 20.
Calculator, Decimal-point. C. E. Latshaw. 1,474,533; Nov. 20.
Camera, Photographic. F. M. Faber. 1,475,006; Nov. 20.
Can opener. J. A. Felton. 1,474,466; Nov. 20.
Candle, Electric. T. Stückelberger. 1,474,451; Nov. 20.
Candle-shaping machine. J. E. Brinker and C. P. McNeil. 1,474,890; Nov. 20.
Candle-supporting cup for candle bases. P. A. Petersen. 1,474,910; Nov. 20.
Cane for extraction, Apparatus for preparing. E. Wessale. 1,474,870–1; Nov. 20.
Cane-loading apparatus. J. Fritschi and W. P. Hughes. 1,474,585; Nov. 20.
Car couplers, Operating device for. V. E. Sisson. 1,474,706; Nov. 20.
Car-door lock, Freight-. G. H. Fahrenbruch. 1,474,584; Nov. 20.
Car, Endless-track motor. E. Schneider. 1,474,918; Nov. 20.
Car, Hopper. A. Campbell. 1,474,814; Nov. 20.
Car, Self-propelled railway. E. M. Post, jr. 1,474,732; Nov. 20.
Car-truck construction, Railway-. J. A. Lamont. 1,474,598; Nov. 20.
Cars, Coupler for railway. T. P. McCollister. 1,475,127; Nov. 20.
Carbonyl derivatives of alpha naphthol and making same. G. de Montmollin and J. Spieler. 1,474,928; Nov. 20.
Carburetor. R. O. Henszey. 1,474,968; Nov. 20.
Carburetors, Thermostatic control mechanism for. F. S. Lack. 1,474,532; Nov. 20.
Card holder. R. E. Oakes. 1,475,134; Nov. 20.
Cards, Deck of playing. A. A. Dean. Des. 63,287; Nov. 20.
Carpet-sweeper attachment. R. A. W. Wilner. 1,475,100; Nov. 20.
Carrier: *See*—
  Basket carrier. Reel carrier.
Carton-body-coating machine, Automatic. F. Coates. 1,474,997; Nov. 20.
Carton-head-coating machine, Automatic. F. Coates. 1,474,999; Nov. 20.
Carton-mouth-coating machine, Automatic. F. Coates. 1,474,998; Nov. 20.
Cartoning machine. J. E. Dungan. 1,474,514; Nov. 20.
Cartridges, Machine for renewing. W. D. Fraser. 1,474,355; Nov. 20.
Case: *See*—
  Crate case. Vanity case.
Casting machines, Safety attachment for type-slug-. C. Fadum. 1,475,007; Nov. 20.
Casting or molding pottery and like articles, Apparatus for. J. F. Gimson. 1,474,432; Nov. 20.
Casting steel frames. F. Briner. 1,474,888; Nov. 20.
Cell and separator plate for use therein, Secondary. T. A. Campbell, J. W. Damon, and A. B. Stewart. 1,474,761; Nov. 20.
Cement patches, Applying. L. Risk. 1,475,029; Nov. 20.
Centrifugal. G. R. Parr. 1,474,845; Nov. 20.
Centrifugals, Means for reducing vibration of. G. R. Parr. 1,474,846; Nov. 20.
Cereal cup. S. H. Perky. Des. 63,315; Nov. 20.
Chain connecter. R. N. Lyon. 1,474,680; Nov. 20.
Check pen protector, Combination. A. Visitacion. 1,474,744; Nov. 20.
Chlorides, Manufacture of metal. B. H. Jacobson. 1,474,479; Nov. 20.
Chocolate masses or other materials, Device for treating. F. F. W. Schildener. 1,474,945; Nov. 20.
Churn. P. Putnam. 1,475,084; Nov. 20.
Churn, Butter. W. J. Tresnak. 1,474,741; Nov. 20.
Cigar moistener. R. B. Osterhoudt. 1,474,684; Nov. 20.
Cigar wrapper. M. S. Heineman. 1,474,363; Nov. 20.
Cigarette container and ash tray, Combined. A. G. Folsom. Des. 63,291; Nov. 20.
Cinematographic apparatus. K. Higginson. 1,475,013; Nov. 20.
Cinematographic target. H. B. Thompson. 1,474,951; Nov. 20.
Circuit breaker, Overload-. F. Tobien. 1,474,693–4; Nov. 20.
Circuit controller. C. W. Yerger. 1,474,991; Nov. 20.
Circuit, Detecting. R. W. Deardorff. 1,474,408; Nov. 20.
Clamp. W. F. Marble. 1,474,908; Nov. 20.
Cleaning device. W. H. A. Brown. 1,474,994; Nov. 20.
Cleaning implement. G. A. Hoyem. 1,475,118; Nov. 20.
Clocks, Support for alarm. J. Oppenheim. 1,475,137; Nov. 20.
Clothing, etc., Wrapper for. J. D. Hudec. 1,474,826; Nov. 20.
Clutch and brake mechanism, Combined. I. Hupp. 1,474,365; Nov. 20.
Coating composition and paper material coated therewith. W. L. Wright. 1,474,503; Nov. 20.
Coffee pot or similar article. A. J. Flauder. Des. 63,290; Nov. 20.
Coffee urn. H. Strobbach. 1,474,858; Nov. 20.
Cogging and rolling mill for iron and steel. T. B. Rogerson. 1,474,734; Nov. 20.
Coil, Induction. A. A. Kent. 1,474,597; Nov. 20.
Combination lock. H. Simbol. 1,475,033; Nov. 20.
Combination lock. T. I. Summers. 1,475,089; Nov. 20.
Combing machines, Attachment for. E. A. Davignon, A. E. Barry, and J. Greenhalgh. 1,475,043; Nov. 20.
Combustion-controlling system. D. Adams. 1,474,754; Nov. 20.
Communication system, Secret-. H. A. Affel. 1,474,426; Nov. 20.
Compass, Magnetic. J. P. Warburg. 1,474,394; Nov. 20.
Composition articles, Means for producing. C. R. Robinson. 1,474,565; Nov. 20.
Compression indicator. J. W. Van Wart. 1,475,096; Nov. 20.
Compressors, Controlling mechanism for. F. D. Holdsworth. 1,474,590; Nov. 20.
Concrete bodies, Forming hollow. H. Barkschat. 1,474,881; Nov. 20.
Concrete building blocks, Means for use in the molding of. J. T. Browne and W. Black. 1,474,813; Nov. 20.
Concrete form and support. W. E. White. 1,474,659; Nov. 20.
Concrete insert. E. Della. 1,474,956; Nov. 20.
Concrete insert. J. E. Ogden. 1,474,729; Nov. 20.
Concrete or the like, Machine for working. W. J. Fitzgerald and A. B. Cadman. 1,474,770; Nov. 20.
Concrete-pipe mold. T. Schuster. 1,475,145; Nov. 20.
Concrete walls, Mold for. T. E. Erdmann. 1,474,667; Nov. 20.
Condenser. J. F. Grace. 1,474,358; Nov. 20.
Conduit coupling. H. K. Sweney. 1,475,150; Nov. 20.
Control apparatus, Automatic. L. Behr. 1,474,884; Nov. 20.
Controlling means. C. S. Schroeder. 1,474,446; Nov. 20.
Conveyer. P. J. Walsh. 1,474,393; Nov. 20.
Conveyer. G. H. Willis. 1,475,099; Nov. 20.
Conveyers, Drive and trip mechanism for. B. C. Skinner. 1,474,558; Nov. 20.
Conveying apparatus. H. O. Stamp. 1,474,855; Nov. 20.
Cooker and water-heater apparatus, Combined electric. T. R. Stancombe. 1,474,562; Nov. 20.
Cooking outfit, Portable. G. Howard. 1,474,825; Nov. 20.
Cord-holding device. W. M. Caple. 1,474,402; Nov. 20.
Core, Collapsible. P. De Mattia. 1,475,109; Nov. 20.
Corset. L. A. Cirillo. 1,474,892; Nov. 20.
Cottonseed, Method of and apparatus for treating. D. Maloney. 1,474,374; Nov. 20.
Cotton squares, Machine for gathering. W. L. Garrett. 1,474,627; Nov. 20.
Counting mechanism and weft-controlling mechanism governened thereby, Combined. 1,474,416; Nov. 20.
Coupling: *See*—
  Conduit coupling. Pipe coupling.
  Electrical coupling. Tire-chain coupling.
  Hose coupling. Truck coupling.
Crate. E. Benson. 1,474,508; Nov. 20.
Crate case, Storage. A. B. Tucker. 1,475,093; Nov. 20.
Crusher. C. E. Street. 1,474,801; Nov. 20.
Cryolite, Making artificial. H. Howard. 1,475,155–8; Nov. 20.
Cuff-button fastener. M. Folkman. 1,474,352; Nov. 20.
Culinary press. C. Eckert. 1,474,625; Nov. 20.
Cup. C. L. Sebring. Des. 63,333; Nov. 20.
Cups, Machine for casting thin metal. D. Pepper. 1,474,489; Nov. 20.
Cuspidor, Stationary. L. H. Fish. 1,474,520; Nov. 20.
Cutter: *See*—
  File cutter. Potato cutter.
Cylinder-finishing tool. A. Storm. 1,474,649; Nov. 20.
Cylinder lock. S. Segal. 1,474,495; Nov. 20.
Dams and building same, Construction of. F. N. Cronholm. 1,474,582; Nov. 20.
Dams, Construction of. F. N. Cronholm. 1,474,581; Nov. 20.
Davenport. T. C. Starr. 1,474,947; Nov. 20.
Dental appliance. I. Stolper. 1,474,497; Nov. 20.
Dental inlay castings, Apparatus for forming. R. T. Case. 1,474,620; Nov. 20.
Dental surgery. L. A. Kiander. 1,474,370; Nov. 20.
Depilatory compound. F. M. Cohan. 1,474,512; Nov. 20.
Desiccation, Apparatus for. W. L. Fleisher. 1,474,626; Nov. 20.
Desk. T. C. Cameron. Des. 63,283; Nov. 20.
Desk. S. W. Williamson and E. Disher. Des. 63,346; Nov. 20.
Detergent. H. Spurrier. 1,474,690; Nov. 20.
Diaphragm, Porous, acid-resisting. L. Lyndon. 1,474,830; Nov. 20.
Die. E. J. Baumgarten. 1,474,882; Nov. 20.
Die. L. B. Elliott. 1,474,897; Nov. 20.
Die-reaming machine. A. Nelson. 1,474,939; Nov. 20.
Direction signal. F. J. Geppert. 1,475,063; Nov. 20.
Directional signal. W. B. Lawrence. 1,474,936; Nov. 20.
Dish, bowl, or similar article. W. D. Haviland. Des. 63,293–6; Nov. 20.
Display device. L. A. Stegmann. 1,474,388; Nov. 20.
Distant indicating means. F. L. Re Qua. 1,474,944; Nov. 20.
Doll. L. A. Wallis. Des. 63,344; Nov. 20.
Doll, Dancing. R. Gaule. 1,475,064; Nov. 20.
Doll, Smoking. M. H. Slater. 1,475,034; Nov. 20.
Door-closing mechanism. W. E. Huber. 1,475,015; Nov. 20.
Door, Hinged. T. Shipley. 1,474,496; Nov. 20.

Dough, Device for treating pie. M. Pinkosh. 1,474,640; Nov. 20.
Draft rigging. A. H. Weston. 1,474,987; Nov. 20.
Dress shield. A. M. Lassen. 1,475,018; Nov. 20.
Dressers, Holder for wheeled. W. D. Bartlett. 1,474,614; Nov. 20.
Drier: *See*—
Fruit drier.
Drier. P. R. Perkins. 1,474,940; Nov. 20.
Drill: *See*—
Electric combination drill. Well drill.
Drill provided with a speed-changing device, Hand. V. G. Lutz. 1,474,679; Nov. 20.
Dust catchers, Screen for. G. W. Vreeland. 1,474,921; Nov. 20.
Electric combination drill, Portable. H. Athenas. 1,475,153; Nov. 20.
Electric conductors, Terminal for. J. A. Kuller. 1,474,972; Nov. 20.
Electric heating appliance. C. A. Laise and A. J. Gallager. 1,474,483; Nov. 20.
Electric recording meter. H. W. Carpenter. 1,474,955; Nov. 20.
Electric switch device. L. Schön. 1,475,144; Nov. 20.
Electric wiring machine. G. L. Clark and C. H. Tibado. 1,474,580; Nov. 20.
Electrical apparatus. D. Conlan, jr. 1,474,763; Nov. 20.
Electrical condenser. B. Macpherson. 1,474,486; Nov. 20.
Electrical controlling means. C. S. Schroeder. 1,474,447; Nov. 20.
Electrical coupling. F. P. Mansbendel. 1,474,975; Nov. 20.
Electrical oscillations, Method of and arrangement for receiving. A. Meissner. 1,474,726; Nov. 20.
Electrical relay. R. C. Browne. 1,474,344; Nov. 20.
Electricity-metering system. J. Harris. 1,474,965; Nov. 20.
Electromagnetic brake. B. E. Fernow, jr. 1,474,960; Nov. 20.
Electroplating anode. E. M. Beck. 1,474,460; Nov. 20.
Elevating mechanism, Director. W. H. P. Blandy and R. K. Turner. 1,474,759; Nov. 20.
Elliptical objects, Machine making or operating upon. L. M. Walker. 1,474,868; Nov. 20.
Emulsions, Process of and apparatus for resolving. C. H. Hapgood. 1,474,670; Nov. 20.
End table. T. C. Cameron. Des. 63,281; Nov. 20.
Engine: *See*—
Beating engine. Internal-combustion engine.
Gas engine.
Engine head. G. Szita. 1,474,452; Nov. 20.
Engine starter. A. T. Kirk. 1,474,371; Nov. 20.
Engine vaporizing attachment. Integral-combustion. L. L. Patterson. 1,474,605; Nov. 20.
Engines, Adjustable piston for. H. B. Goodhart. 1,474,470; Nov. 20.
Engines. Automatic fuel-economizing apparatus for internal-combustion. R. Platt-Hepworth. 1,474,686; Nov. 20.
Engines, Fuel mixer for internal-combustion. A. Rogers. 1,474,791; Nov. 20.
Engines, pumps, and the like, Connecting rod and the co-operating parts of. L. H. Hounsfield. 1,474,591; Nov. 20.
Engines, Vaporizing attachment for internal-combustion. J. Medveczky. 1,474,909; Nov. 20.
Envelope-fastening device. P. L. Andrews. 1,474,876; Nov. 20.
Envelope opener. J. Starkl. 1,474,856; Nov. 20.
Envelopes, Patch-applying mechanism for window. C. O. Ekvall. 1,474,832; Nov. 20.
Envelopes, Patch-applying mechanism for window. H. Radzinsky. 1,474,913; Nov. 20.
Escapement. P. Hamilton. 1,475,068; Nov. 20.
Ether, Apparatus for the manufacture of. J. P. Foster. 1,474,772; Nov. 20.
Exhibiting and vending device, Combined. W. A. and F. P. Richmond. 1,475,141; Nov. 20.
Exposure timer. W. C. Anderson. 1,474,342; Nov. 20.
Extractor: *See*—
Honey extractor. Juice extractor.
Fabric against rot, Protecting. B. Wolcott and C. L. Jennison. 1,474,574; Nov. 20.
Fastening-inserting machine. F. L. MacKenzie. 1,474,373; Nov. 20.
Fastenings, Machine for operating on. A. E. Jerram. 1,474,368; Nov. 20.
Faucet, Combination. J. H. Clifford. 1,475,051; Nov. 20.
Feed bag for horses. J. Zdzieblo. 1,474,922; Nov. 20.
Feeding head. F. Briner. 1,474,889; Nov. 20.
Feeding mechanism, Cold-roll-. G. C. Kimball and H. G. McIlvried. 1,474,935; Nov. 20.
File cutter. S. Karpal. 1,474,720; Nov. 20.
Filing device. W. S. Proudfit. 1,474,642; Nov. 20.
Filter, Air. L. L. Dollinger. 1,474,412; Nov. 20.
Filtration. H. F. Glair and E. J. Wonnacott. 1,474,899; Nov. 20.
Finger ring. H. Breslavsky. Des. 63,280; Nov. 20.
Finger rings, Making. J. Karian. 1,474,828; Nov. 20.
Fire door. C. R. Bumbarger. 1,474,345; Nov. 20.
Fire prevention, Method, system, and apparatus for log-pile. B. R. T. Collins. 1,475,052; Nov. 20.
Fireplace heater. L. M. Specht and J. A. Shimek. 1,475,088; Nov. 20.
Firing system, Director. J. B. Walker and A. B. Bond. 1,474,745; Nov. 20.
Fishing apparatus. H. Podolsky. 1,474,731; Nov. 20.
Flatirons, Thermostatic switch for. R. D. Hetrick. 1,474,588; Nov. 20.
Float-operated switch. S. A. Shapiro. 1,475,087; Nov. 20.
Floor construction, Concrete. O. D. Purington. 1,474,441; Nov. 20.
Flower-display holder. R. Zrebiec. 1,474,758; Nov. 20.
Fluid pressure to hydraulic couplings, Device for distributing. F. Mayer. 1,475,020; Nov. 20.
Fluids, Utensil for dispensing heavy. H. F. H. Ried. 1,474,848; Nov. 20.
Flytrap. H. van Hees. 1,475,095; Nov. 20.
Folding machines or the like, Timing mechanism for. L. M. Kohn. 1,474,781; Nov. 20.
Folding mechanism, Sheet control for. F. Herb. 1,474,364; Nov. 20.
Food dispenser. R. O. Fraser. 1,474,773; Nov. 20.
Food of especial digestibility, Composition for producing a lactic. K. J. Monrad. 1,474,542; Nov. 20.
Food products, Apparatus for separating fibrous and non-fibrous materials in. G. G. Schorer. 1,474,566; Nov. 20.
Foot rest. G. R. Thole. 1,474,950; Nov. 20.
Fork: *See*—
Brick-handling fork.
Form support. W. E. White. 1,474,660; Nov. 20.
Frame: *See*—
Locomotive frame. Trial frame.
Fruit drier. J. B. Raby, jr. 1,474,687; Nov. 20.
Fruit anlp. M. A. Starkey. 1,474,799; Nov. 20.
Fuel burner. C. A. French. 1,474,898; Nov. 20.
Fuel, Feeding powdered. M. W. Arrowood. 1,474,613; Nov. 20.
Fuel-mixture heating and vaporizing device. W. W. Grant. 1,474,359; Nov. 20.
Fuel, Motor. W. T. Schreiber. 1,474,983; Nov. 20.
Fuel, Nonfreezing. W. T. Schreiber. 1,474,982; Nov. 20.
Furnace: *See*—
Heating furnace. Open-hearth furnace.
Furnace. E. C. Taylor. 1,474,499; Nov. 20.
Furnace-casing-attaching means. D. V. Runnion 1,474,609; Nov. 20.
Furnaces, Air-washer humidifier for. J. V. Patten. 1,474,639; Nov. 20.
Fuse. M. C. A. H. Pape. 1,474,548; Nov. 20.
Game. J. B. Allen. 1,474,504; Nov. 20.
Game. A. B. Foans. 1,475,154; Nov. 20.
Game. C. A. Foster. 1,474,961; Nov. 20.
Game. N. J. Jacobson. 1,474,934; Nov. 20.
Game apparatus. E. Bruder. 1,474,618; Nov. 20.
Game apparatus. J. Nelson. 1,474,488; Nov. 20.
Game board. C. S. Muir. Des. 63,309; Nov. 20.
Game, Mariner's. C. McKay. 1,474,539; Nov. 20.
Garment. O. Ekberg. 1,474,896; Nov. 20.
Gas-analyzing apparatus. R. E. Cooper and C. O. Sisler. 1,475,000; Nov. 20.
Gas engine. J. A. Embach. 1,475,005; Nov. 20.
Gas heater. G. F. Schmidt. Des. 63,329; Nov. 20.
Gas saver and coaster brake. T. R. Watson. 1,474,570; Nov. 20.
Gas vacuum vaporizer. E. A. Crawford. 1,474,764; Nov. 20.
Gate: *See*—
Self-closing gate.
Gate. R. J. Mitchell. 1,475,131; Nov. 20.
Gauge: *See*—
Micrometer gauge.
Gauge. J. G. Zuber. 1,474,992; Nov. 20.
Gear for moving the bottoms of dumping receptacles. P. Kruger. 1,474,785; Nov. 20.
Gear worms, Forging. A. L. Eicher. 1,474,516; Nov. 20.
Girdle. S. G. Mandallan. 1,474,421; Nov. 20.
Glass, plate glass, and other material substances, Apparatus for grinding, smoothing, and polishing. C. Heuze. 1,474,672; Nov. 20.
Glass, Sheet. W. N. Pilkington. Des. 63,318–20; Nov. 20.
Glove. C. H. Wilkes. 1,474,573; Nov. 20.
Glycerin, Recovering. H. F. Willkie. 1,474,750; Nov. 20.
Goblet or similar article. S. Trippi. Des. 63,337–8; Nov. 20.
Goggles. G. S. Johnston. 1,474,635; Nov. 20.
Golf club. H. D. Challis. Des. 63,284; Nov. 20.
Governor. M. G. Benjamin. 1,474,615; Nov. 20.
Granary. H. B. Jones. 1,474,827; Nov. 20.
Grate. J. Muller. Des. 63,310; Nov. 20.
Grate bar. A. F. Frattinger. 1,474,818; Nov. 20.
Grate bar. A. M. Masser. 1,475,159; Nov. 20.
Grease interceptor. S. L. Marsh. 1,474,938; Nov. 20.
Grinding machine. H. H. Richardson. 1,475,085; Nov. 20.
Hæmocytometer and making the same. E. D. Brooker. 1,474,812; Nov. 20.
Hair curler and waver. A. F. Bystrom. 1,474,509; Nov. 20.
Hair holder and roll, Bobbed-. H. Hoffman. 1,474,474; Nov. 20.
Hair-net container. H. Meuer. 1,475,130; Nov. 20.
Halter strap. F. L. Albin. 1,474,340; Nov. 20.

Ham boiler. A. Göbel, F. Harnisch, and E. C. Janke. 1,474,713; Nov. 20.
Hand bag, Foldable. C. S. Ayres. 1,474,879; Nov. 20.
Handle: *See*—
Bottle handle. Tool handle.
Harvester. C. H. McClure. 1,475,073; Nov. 20.
Hay loader. H. W. Pierson. 1,474,492; Nov. 20.
Headlight device, Automobile. C. A. Hartmann. 1,474,714; Nov. 20.
Heater: *See*—
Fireplace heater. Water heater.
Oil heater.
Heat-insulating material. H. M. Smith. 1,474,559; Nov. 20.
Heating device, Electric. M. M. Levinson. 1,474,723; Nov. 20.
Heating element, Electric. R. G. Bridges. 1,474,887; Nov. 20.
Heating furnace, Automatic rotary. G. Bluemel. 1,474,705; Nov. 20.
Heating unit, Electric. T. C. Russell. 1,474,384; Nov. 20.
Hedge and grass trimmer. C. Rosel. 1,474,916; Nov. 20.
Heel, Composite. P. Arthur. 1,475,042; Nov. 20.
Heel for boots and shoes. D. Hill. Des. 63,298; Nov. 20.
Heelplate, Removable. A. Kitowski. 1,474,837; Nov. 20.
Hinge. E. J. Larson. 1,474,418; Nov. 20.
Hod. A. E. Long. 1,475,125; Nov. 20.
Hog ring. H. C. Konklin. 1,474,784; Nov. 20.
Hoist, Fluid. J. P. Hell. 1,474,834; Nov. 20.
Hoist, Skip. W. E. Hale. 1,474,902; Nov. 20.
Honey extractor. W. F. Vollmer and J. N. DeMuth. 1,474,865; Nov. 20.
Hook. J. Bolei. 1,475,046; Nov. 20.
Hoop-iron ends, Seal for. J. Bayer. 1,474,883; Nov. 20.
Hose coupling. W. E. Burroughs. 1,474,995; Nov. 20.
Hose coupling. J. H. Hanrahan. 1,474,586; Nov. 20.
Hydrocarbon burner. W. J. Krause. 1,474,677; Nov. 20.
Hydrocarbon burner. E. C. Walker. 1,474,867; Nov. 20.
Ice-cutting implement. F. E. Biddinger. 1,474,343; Nov. 20.
Ice-making apparatus, Artificial-. H. D. Pownall. 1,474,551; Nov. 20.
Identification device. A. N. C. Thorp. 1,474,861; Nov. 20.
Igniter. K. Berglof. 1,474,661; Nov. 20.
Ignition apparatus. A. A. Kent. 1,474,970; Nov. 20.
Ignition system. L. S. Keilholtz. 1,474,780; Nov. 20.
Ignition systems, Timer for. E. L. Morse. 1,474,376; Nov. 20.
Incense burner. J. Shively. Des. 63,334; Nov. 20.
Indicator: *See*—
Compression indicator. Luminous indicator.
Industrial oven. W. C. Ebmka. 1,474,515; Nov. 20.
Inseam-trimming machine. A. B. Fowler. 1,474,353; Nov. 20.
Insect-catching device. B. F. Alink. 1,474,427; Nov. 20.
Insecticide distributor. W. H. Franks. 1,474,668; Nov. 20.
Insulating end post. B. Wolhaupter. 1,474,459; Nov. 20.
Insulation, Applying felt. J. S. Maynard. 1,474,423; Nov. 20.
Insulator. F. Schaub. 1,474,736; Nov. 20.
Internal-combustion engine. E. G. Bogusch. 1,474,617; Nov. 20.
Internal-combustion engine. C. H. Ferguson. 1,474,467; Nov. 20.
Internal-combustion engine. L. J. Misuraca. 1,474,842; Nov. 20.
Internal-combustion engine. C. J. H. Penning. 1,474,549; Nov. 20.
Internal-combustion engine. F. D. Shepherd. 1,474,794–5; Nov. 20.
Internal-combustion engine. I. H. Wilsey. 1,474,697; Nov. 20.
Internal-combustion motor. O. F. Halbe. 1,474,712; Nov. 20.
Internal-combustion or gas engine. T. E. Brown. 1,474,954; Nov. 20.
Ion concentration effects, Method of and apparatus for obtaining. E. A. Keeler. 1,474,594; Nov. 20.
Ironing board. J. Lutes. 1,474,536; Nov. 20.
Ironing-board stand and window jack or seat, Combined. W. Haas. 1,475,067; Nov. 20.
Jack: *See*—
Pipe-lifting jack. Shoe jack.
Pumping jack.
Jack. S. Ellingsen. 1,475,057; Nov. 20.
Jar covers, Making battery-. S. T. Campbell. 1,474,510; Nov. 20.
Joint: *See*—
Air-flask joint. Tool joint.
Pipe joint.
Journal-box bearing. B. Milewski. 1,475,021; Nov. 20.
Juice extractor. M. Rosenfield. 1,474,849; Nov. 20.
Kettle, Pop-corn. R. D. Parks. 1,475,081; Nov. 20.
Key holder. C. A. Murray. 1,475,133; Nov. 20.
Kiln, Tunnel. G. H. Benjamin. 1,474,616; Nov. 20.
Knife guard. M. Kozlowski. 1,474,722; Nov. 20.
Knitting machines, Stitch wheel for. J. Bloom. 1,475,045; Nov. 20.
Lace. S. H. Page. Des. 63,311–2; Nov. 20.
Lacing, Shoe. W. Zapis. 1,474,396; Nov. 20.
Ladder. F. J. Bryant. 1,474,760; Nov. 20.
Ladder-step bracket. G. A. Messacar. 1,475,078; Nov. 20.
Lamp body. F. Pirson. Des. 63,321; Nov. 20.
Lamp, Electric. A. J. Sanders. 1,474,735; Nov. 20.
Lamp standard. F. Yokel. Des. 63,349–50; Nov. 20.
Lamp support, Automatic dirigible. J. B. Nicholson. 1,475,080; Nov. 20.
Lantern. H. C. Drumm. 1,474,895; Nov. 20.
Lantern cage. M. F. Bramley. 1,474,401; Nov. 20.
Latch, Gate. M. Ainsworth. 1,474,575; Nov. 20.
Lathes, Attachment for. M. G. Husted. 1,474,673; Nov. 20.
Lathes, Turning head for. L. M. Walker. 1,474,869; Nov. 20.
Laundry tub. C. W. Witt. 1,474,872; Nov. 20.
Lavatory waste. E. G. Watrous. 1,474,986; Nov. 20.
Lens objective, Four-. F. Urban. 1,474,743; Nov. 20.
Lens, Test. E. D. Tillyer. 1,474,803; Nov. 20.
Letter file, Portable. E. M. Stephenson. 1,474,948; Nov. 20.
License-card holder. J. J. and L. L. Newman. 1,475,025; Nov. 20.
Lifter: *See*—
Automobile lifter. Valve lifter.
Light and stop signal, Tail. S. J. Thomas. 1,474,740; Nov. 20.
Lighting fixture. P. C. Egan. 1,474,958; Nov. 20.
Lighting fixture, Combination socket cover and husk for. G. Ainsworth. Des. 63,277; Nov. 20.
Lighting fixtures, Wall bracket for. T. E. Dahl. Des. 63,285; Nov. 20.
Link, Drag. W. H. Spire. 1,474,854; Nov. 20.
Liquid and gas mixer. A. W. Morse. 1,474,603; Nov. 20.
Liquid-fuel burner. E. Cleary. 1,475,050; Nov. 20.
Liquids, Apparatus for controlling the flow of. J. W. Doble. 1,474,894; Nov. 20.
Liquids, Measuring and dispensing device for. S. C. Price. 1,474,554; Nov. 20.
Liquids, Purifying. S. H. Hall. 1,474,629; Nov. 20.
Lithopone manufacture. E. E. Dougherty. 1,474,766; Nov. 20.
Loading and conveying apparatus. J. C. French. 1,474,356; Nov. 20.
Lock: *See*—
Car-door lock. Nut lock.
Combination lock. Tire lock.
Cylinder lock.
Lock. J. S. Piga. 1,475,082; Nov. 20.
Locomotive frame. G. E. Parks. 1,474,730; Nov. 20.
Locomotive stake. P. Warren. 1,474,658; Nov. 20.
Looms, Feeler for. C. H. Warren. 1,474,985; Nov. 20.
Looms, Throw-off mechanism for ribbon. J. Bresch. 1,475,047; Nov. 20.
Lubrication, Means of. O. W. Gerleman. 1,474,819; Nov. 20.
Luminous indicator. E. W. Day. 1,474,816; Nov. 20.
Lung protector. R. Grier. 1,474,710; Nov. 20.
Lure, Fish. G. H. Hines. 1,474,823; Nov. 20.
Machine tools, Turret head for. E. A. Muller. 1,474,438; Nov. 20.
Magnetic concentrator. E. W. Davis. 1,474,624; Nov. 20.
Mail box. A. G. Maxey. 1,474,424; Nov. 20.
Mail transfer, Intraairplane. L. C. Weinberg and H. E. Brannon. 1,474,457; Nov. 20.
Malt extract and producing same, Desiccated. E. D. Rogers. 1,474,381; Nov. 20.
Manhole cover. L. Crooke. 1,474,463; Nov. 20.
Measure, Fish. R. G. Tyrrell. 1,474,804; Nov. 20.
Measuring device. H. M. Jones. 1,474,904; Nov. 20.
Measuring machine. G. A. Schettler. 1,474,385; Nov. 20.
Merry-go-round, Portable. S. Alseth. 1,474,341; Nov. 20.
Metal, Treating. R. E. Bradley and C. R. Webber. 1,474,953; Nov. 20.
Metal wheel. J. H. Wagenhorst. 1,475,161; Nov. 20.
Meter: *See*—
Electric recording meter.
Micrometer gauge. A. T. Gregory. 1,475,066; Nov. 20.
Milk, Making artificial. C. E. North. 1,474,848; Nov. 20.
Milk releaser. C. H. Hapgood. 1,474,669; Nov. 20.
Mill for rolling shapes. G. Baehr. 1,474,880; Nov. 20.
Mixer: *See*—
Liquid and gas mixer.
Mold: *See*—
Concrete-pipe mold.
Molding machine. A. Allen and T. J. Mumford, 2d. 1,474,612; Nov. 20.
Molding machine. H. Tolbert. 1,474,862; Nov. 20.
Molding machines, Compressor for. A. M. Jones. 1,475,017; Nov. 20.
Mop. W. H. Glenn. 1,474,930; Nov. 20.
Mop wringer. W. M. Portner. 1,475,083; Nov. 20.
Motor: *See*—
Internal-combustion motor. Sewing-machine motor.
Motor-driven manicuring device. G. W. Moore. 1,475,022; Nov. 20.
Motor head. L. Chevrolet. 1,474,511; Nov. 20.
Motors driving through clutches, System of control for synchronous. R. I. Manjer. 1,474,976; Nov. 20.
Nonskid chain. J. F. Howerton. 1,474,526; Nov. 20.
Nonskid chains, Holder for. H. G. Steele. 1,474,563; Nov. 20.
Nonskid device. F. E. Schartow. 1,474,610; Nov. 20.
Nose ring. H. C. Konklin. 1,474,788; Nov. 20.
Numbering machine. W. F. Haupt. 1,474,715; Nov. 20.
Nut, Friction lock. J. H. Dean. 1,474,407; Nov. 20.

Nut lock. J. F. Comly. 1,474,579; Nov. 20.
Nut-shelling machine. M. J. Fogarty. 1,474,468; Nov. 20.
Oil burner. L. M. Goldsmith. 1,474,900; Nov. 20.
Oil from oil-bearing sands and rocks, Apparatus for separating. W. J. Reilly. 1,475,028; Nov. 20.
Oil heater. C. J. Garrigan. 1,474,524; Nov. 20.
Oil reclaimer and purifier. H. W. Rose. 1,475,086; Nov. 20.
Oil tester. O. B. Yetman and J. Leisure. 1,474,807; Nov. 20.
Open-hearth furnace. O. F. Pennypacker. 1,474,606; Nov. 20.
Operating table. O. B. Schellberg. 1,475,143; Nov. 20.
Paint and varnish remover. F. A. Van Ness. 1,474,984; Nov. 20.
Painting outfit. W. E. King. 1,474,721; Nov. 20.
Pan shifter. J. F. Scott. 1,474,448; Nov. 20.
Paper and other fibrous material impervious to grease, Rendering. W. L. Wright. 1,474,502; Nov. 20.
Paper-bailing machine. W. A. Wulle. 1,474,874; Nov. 20.
Paper boxes, Making. L. C. Palmer. 1,474,844; Nov. 20.
Paper doll. J. F. Johnston. 1,475,070; Nov. 20.
Paper-making stock, Apparatus for washing. B. Crocker. 1,474,893; Nov. 20.
Pen, Fountain. P. Narayan. 1,474,611; Nov. 20.
Pencil. L. W. Faber and W. Robinson. 1,474,519; Nov. 20.
Pencil. C. R. Keenan. 1,474,595; Nov. 20.
Pencil sharpener and holder, Combined. W. T. Boice. 1,474,885; Nov. 20.
Pendant-cord switch. B. March. 1,475,128; Nov. 20.
Perforating device, Electric. P. A. Raiche. 1,474,912; Nov. 20.
Petroleum-refining apparatus. C. B. Watson. 1,474,395; Nov. 20.
Petroleum, Treating. D. W. Hoge. 1,474,475; Nov. 20.
Petroleum vapor, Treating. D. W. Hoge. 1,474,476; Nov. 20.
Phonographs and the like, Stop mechanism for. O. S. Wright. 1,474,501; Nov. 20.
Photographer's studio appliance. J. W. Anderson. 1,474,809; Nov. 20.
Photographic transfer paper and making same. F. W. Kent. 1,474,596; Nov. 20.
Picture and pattern behind which a light-reflecting metallic sheet is laid. E. Winter. 1,474,698; Nov. 20.
Picture device, Changeable-. O. M. Whitstock. 1,474,572; Nov. 20.
Picture-film-printing apapratus, Motion-. O. B. Depue. 1,474,409; Nov. 20.
Pilot burner. F. W. Powers. 1,474,641; Nov. 20.
Pipe and pipe clamp. G. F. Hauf. 1,474,822; Nov. 20.
Pipe coupling. A. T. McWane. 1,474,435; Nov. 20.
Pipe joint. A. T. McWane. 1,474,436–7; Nov. 20.
Pipe joint, Flexible. W. H. Taylor, 3d. 1,475,090; Nov. 20.
Pipe-lifting jack. J. W. Septer. 1,475,146; Nov. 20.
Pipe stand. H. J. Day and P. J. Walker. Des. 63,286; Nov. 20.
Pipe systems, Exhauster for dry-. G. I. Rockwood. 1,474,915; Nov. 20.
Pipes, Clamps for stopping leaks on. R. W. Philbrook. 1,474,550; Nov. 20.
Plaster board. C. O. Walper. 1,474,657; Nov. 20.
Plastic material. F. T. Lahey. 1,474,482; Nov. 20.
Plastic material, Relief and transparency of. F. J. Sonnekes. 1,474,561; Nov. 20.
Plate, Check. A. H. Weston. 1,474,988; Nov. 20.
Platforms without interruption of continuity, Joints extensible and retractable in all directions for movable. H. Mangin. 1,475,077; Nov. 20.
Pistol. E. Thimgren. 1,475,037; Nov. 20.
Piston. A. M. Franchi. 1,474,354; Nov. 20.
Piston. A. Hamelstrom. 1,475,114; Nov. 20.
Pitcher, Cream. C. L. Sebring. Des. 63,332; Nov. 20.
Pliers. V. Jacoby. 1,474,592; Nov. 20.
Plow or cultivator, Walking. J. G. Lundy. 1,474,637; Nov. 20.
Plow scraper, Flexible disk-. A. C. Lindgren. 1,474,906; Nov. 20.
Plug receptacle. C. H. Bissell. 1,474,758; Nov. 20.
Pocketbook, Lady's safety. T. L. Monaghan. 1,475,132; Nov. 20.
Post: *See*—
Insulating end post.
Potato cutter. R. H. A. Holler. 1,474,717; Nov. 20.
Poultry beheader. P. J. Haas. 1,474,711; Nov. 20.
Poultry, Process and means for plucking. G. W. Atkinson. 1,474,702; Nov. 20.
Powder and similar material, Box for talcum. R. M. Rodriguez. Des. 63,323; Nov. 20.
Preserving food. O. H. Hansen. 1,474,820; Nov. 20.
Press: *See*—
Culinary press.
Press mechanism. W. F. Herold. 1,474,473; Nov. 20.
Presses, Guard for punch. E. Ischinger. 1,474,366; Nov. 20.
Pressing device. O. Hauptman. 1,474,833; Nov. 20.
Pressure regulator. M. C. Mayo. 1,474,841; Nov. 20.
Propelling device, Personal. C. H. Allen and A. C. Henderson. 1,474,952; Nov. 20.
Pump. C. A. Anderson. 1,474,877; Nov. 20.
Pump. G. A. Humason. 1,474,718; Nov. 20.
Pump. V. H. Palm. 1,474,439; Nov. 20.
Pump, Centrifugal. J. W. W. Drysdale. 1,474,708; Nov. 20.
Pump, Centrifugal. P. Hariveau. 1,474,671; Nov. 20.
Pump, Centrifugal. A. S. Telfer. 1,474,454; Nov. 20.
Pump, Compression. E. D. Dunning. 1,474,769; Nov. 20.
Pump, Double-acting air. I. T. Eastman. 1,474,665; Nov. 20.
Pumps, Priming and straining device for screw and centrifugal. A. R. Seaborne. 1,474,449; Nov. 20.
Pumping jack. J. H. Carson. 1,474,996; Nov. 20.
Purging device. P. Van Vlissingen. 1,474,392; Nov. 20.
Pyrometer. R. Hase. 1,474,903; Nov. 20.
Rack: *See*—
Thermometer rack.
Radiator cap. G. B. Hutchings. Des. 63,301; Nov. 20.
Radiator protector. M. E. Fulk. 1,475,062; Nov. 20.
Radiator, Steam-heated hot-water. S. Deutsch. 1,474,765; Nov. 20.
Rail fastener. E. M. McVicker. 1,474,787; Nov. 20.
Rail-joint insulation. C. D. Young. 1,474,700; Nov. 20.
Rail joints, Renewable insulation for. C. A. Disbrow. 1,474,431; Nov. 20.
Railway, Pleasure. J. O. Greenberg. 1,474,962; Nov. 20.
Railway tie and rail fastening. J. F. Baime, jr. 1,475,106; Nov. 20.
Rake and rock remover, Combined. B. E. Storr. 1,474,650; Nov. 20.
Razor guard, Safety-. L. Loret-Fleurance. 1,474,678; Nov. 20.
Razor, Safety. H. W. Greenbrier. 1,474,471; Nov. 20.
Reamer. E. D. Johnson and E. A. Zempel. 1,474,369; Nov. 20.
Receptacle, Metallic. A. Miller. 1,474,601; Nov. 20.
Receptacles, Emergency handle for domestic. F. W. Wilkes. 1,474,696; Nov. 20.
Recorder, Entry. J. W. Rhoden. 1,474,789; Nov. 20.
Reel carrier. G. Woodward. 1,474,873; Nov. 20.
Reenforced board. C. Wisbrock. 1,474,699; Nov. 20.
Refrigerating machine. E. Rüegger. 1,474,851; Nov. 20.
Refrigerator. A. Y. Phillips and C. Thompson. 1,474,847; Nov. 20.
Refrigerator and candy support therefor, Coating. P. E. Dudley and H. Boice. 1,474,768; Nov. 20.
Refrigerator and ice machine. H. B. Lindsay. 1,474,535; Nov. 20.
Refrigerator, Evaporative. J. B. Grond. 1,475,113; Nov. 20.
Regulator: *See*—
Pressure regulator.
Reservoir and brake valve, Combined. A. B. Kendall. 1,474,836; Nov. 20.
Resilient wheel. I. W. Burns-Lindow. 1,474,926; Nov. 20.
Resilient wheel. P. D. De Olive. 1,474,664; Nov. 20.
Resilient wheel. D. H. Smith. 1,474,737; Nov. 20.
Rheostat and cut-out, Combined. J. E. Jenkins. 1,474,367; Nov. 20.
Rim, Separable. A. B. Rognlie. 1,474,555; Nov. 20.
Rim tool. K. Okamoto. 1,475,135; Nov. 20.
Rims, Retaining device for demountable. C. G. Taylor. 1,474,453; Nov. 20.
Ring: *See*—
Hog ring. Twisting ring.
Nose ring.
Rivet set. W. Meyer. 1,474,978; Nov. 20.
Rocker. R. Schwarz. Des. 63,330; Nov. 20.
Rockers, Fan attachment for. A. T. Roman. 1,475,160; Nov. 20.
Roofing construction, Strip-. T. Robinson. 1,474,380; Nov. 20.
Rug. J. Enis. Des. 63,288; Nov. 20.
Rug. H. A. Miller. Des. 63,304; Nov. 20.
Rug. H. A. Miller. Des. 63,306; Nov. 20.
Rug. E. G. Sauer. Des. 63,328; Nov. 20.
Rugs or the like, Support for dyeing or drying. W. E. Olson. 1,475,026; Nov. 20.
Rule-form machine. E. Appelquist. 1,474,924; Nov. 20.
Saddle, Cushion. H. and F. Mesinger. 1,474,977; Nov. 20.
Safety device, Multiple-form. D. S. Coe. 1,474,663; Nov. 20.
Salad dressing. W. H. and B. Scholl. 1,474,445; Nov. 20.
Saw set. L. and F. Riener. 1,474,564; Nov. 20.
Scaffold, Portable. A. Blankenhagen. 1,474,462; Nov. 20.
Scaffold, Suspended. E. Pitou. 1,474,941; Nov. 20.
Scale platform. C. D. Dallas. 1,474,464; Nov. 20.
Scale, Platform. J. J. Magrady. 1,474,681; Nov. 20.
Scarfpin. R. J. Carney. 1,474,662; Nov. 20.
Screen: *See*—
Window screen.
Screens and the like, Edge reenforcement for. L. Guggenberger. 1,474,628; Nov. 20.
Seal and forming same, Wire-strap. W. N. Lurcott. 1,474,372; Nov. 20.
Seal, Fermentation. E. A. Bircher. 1,474,461; Nov. 20.
Sealing machine, Single-head-carton-. W. D. Kimball and A. E. Rideout. 1,474,480; Nov. 20.
Sealing machines, Flap lifter for carton-. W. L. Taylor and C. F. Richards. 1,474,691; Nov. 20.
Seam anchor. P. Hogan. 1,474,835; Nov. 20.
Seam-rubbing machine. F. W. Farrar. 1,474,350; Nov. 20.

Seed-sowing device. P. S. Martin. 1,474,599; Nov. 20.
Self-closing gate. G. H. Knutson. 1,474,676; Nov. 20.
Separator-bowl construction. C. A. Robertson. 1,474,379; Nov. 20.
Separator element. B. Powers. 1,474,440; Nov. 20.
Sewing machine. J. Fossa. 1,475,009; Nov. 20.
Sewing-machine feed mechanism. T. J. Hayes. 1,474,966; Nov. 20.
Sewing machine for forming concealed stitches. J. J. Heap. 1,474,362; Nov. 20.
Sewing-machine motor. E. Nielsen. 1,474,604; Nov. 20.
Sewing machines, Attachment for. A. B. Mattingly. 1,474,422; Nov. 20.
Shade bracket, Window-. P. P. Pouler. 1,474,552; Nov. 20.
Shade, Mantle. M. A. Laird. 1,474,071; Nov. 20.
Shank reenforcers, Apparatus for making. H. G. Josephson. 1,474,719; Nov. 20.
Share attachment. M. J. Cooney. 1,475,107; Nov. 20.
Sharpener, Knife and scissors. E. R. Judd and L. Minnick. 1,474,636; Nov. 20.
Sheet-delivery device. J. E. Doyle. 1,474,413; Nov. 20.
Sheet-metal article. A. Alloway. 1,474,923; Nov. 20.
Shield, Expansion. J. E. Ogden. 1,474,980; Nov. 20.
Shipping receptacle. A. T. Vinson. 1,474,455; Nov. 20.
Shock absorber. C. I. Bailey. 1,474,810; Nov. 20.
Shock absorber. O. G. Bloom. 1,475,044; Nov. 20.
Shock absorber. H. Crowley. 1,474,578; Nov. 20.
Shock absorber. L. P. Halladay. 1,474,964; Nov. 20.
Shock absorber. J. M. Swanstrom. 1,474,498; Nov. 20.
Shock-absorbing wheel. F. E. Loudy. 1,474,420; Nov. 20.
Shoe. M. Kukovec. Des. 63,302; Nov. 20.
Shoe-blacking stands, Foot rest for. S. J. Dodd. 1,474,411; Nov. 20.
Shoe bottoms, Machine for operating on. E. Erickson. 1,474,348; Nov. 20.
Shoe form. W. C. Richardson. 1,474,444; Nov. 20.
Shoe-insole construction. G. R. Davis. 1,475,055; Nov. 20.
Shoe jack. G. De Sanctis. 1,475,002; Nov. 20.
Shoe-trimming machine. A. Bates. 1,474,398; Nov. 20.
Shoe-turning machine. E. Erickson. 1,474,349; Nov. 20.
Shopping bag. J. A. Fluellen. 1,475,008; Nov. 20.
Shovel. G. H. and A. C. Sylvester. 1,474,568; Nov. 20.
Sign, Advertising. H. W. Mitchell and P. La Grassa. 1,474,682; Nov. 20.
Sign, Electric. C. S. Fisher. Des. 63,289; Nov. 20.
Signal: *See*—
Automobile signal. Traffic signal.
Directional signal.
Signal and rear light, Stop. S. J. Thomas. 1,474,739; Nov. 20.
Signaling device. H. Snyder. 1,475,035; Nov. 20.
Silk spindle. E. A. Perkins. 1,474,491; Nov. 20.
Silk, Treatment of artificial. C. A. Snyder. 1,474,560; Nov. 20.
Sintering apparatus. W. G. Swart. 1,474,859; Nov. 20.
Skimming apparatus. A. F. Allen, A. F. McCoy, and R. O. Sternberger. 1,474,397; Nov. 20.
Slicer, Bread. G. F. Du Buque. 1,474,767; Nov. 20.
Soles, Machine for marking. J. C. Hardie. 1,474,360; Nov. 20.
Sound records, Producing. D. A. Whitson. 1,474,695; Nov. 20.
Sound-reproducing machines, Record-beginning guide for. T. H. Loy. 1,474,786; Nov. 20.
Sound-reproduction apparatus. F. D. Hunt. 1,474,776; Nov. 20.
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Springs, Shackle for vehicle. A. H. Harris. 1,474,361; Nov. 20.
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86— 23: 1,474,355
87— 4: 1,474,750
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88— 16. 8: 1,475,013
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89— 41: 1,474,745
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91— 25: 1,474,999
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93— 2: 1,474,651
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44: 1,474,691
61: 1,474,832
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99— 8: 1,474,820
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11: 1,474,445
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12: 1,475,052
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101— 22: 1,474,744
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102— 3: 1,474,548
103— 5: 1,474,718
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46: 1,474,439
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113: 1,474,449
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105— 165: 1,474,771
105— 172: 1,474,730
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248: 1,474,814
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107— 14: 1,474,773
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108— 8: 1,474,380
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33. 44: 1,474,477
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293— 55: 1,474,907
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294— 48: 1,474,592
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24: 1,475,067
305— 9: 1,474,749
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10: 1,474,456
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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Ac Spark Plug Company, Flint, Mich. Speedometers. 176,630; Nov. 27; Serial No. 163,493; published Sept. 25, 1923.

Adamite Filtration Co. Inc., Brooklyn, N. Y. Filtration materials. 176,400; Nov. 27; Serial No. 182,326; published Sept. 11, 1923.

Aldrich, Anthony B., Washington, D. C. License-tag fasteners for automobiles and the like. 176,470; Nov. 27; Serial No. 181,371; published Sept. 18, 1923.

Alfocorn Milling Company, doing business as Consolidated Mills Company, St. Louis, Mo. Stock feed. 176,582; Nov. 27; Serial 177,811; published Aug. 21, 1923.

Allen, Bona, Inc., Buford, Ga. Horse collars, harness, and harness parts. 176,671; Nov. 27; Serial No. 182,327; published Sept. 18, 1923.

Ambridge Knitting Company, Ambridge and Pittsburgh, Pa. Hosiery. 176,484; Nov. 27; Serial No. 180,680; published Sept. 18, 1923.

Ambrosia Chocolate Co., Milwaukee, Wis. Candy. 176,686; Nov. 27; Serial No. 168,094; published Aug. 21, 1923.

American Chocolate Almond Co., The. (See Panoullas, Panayiotis D.)

American Fork & Hoe Company, The, Cleveland, Ohio. Agricultural hand implements for hoeing and digging. 176,589; Nov. 27; Serial No. 179,509; published Sept. 11, 1923.

American Hominy[c] Company, Chicago, Ill. Hominy. 176,574; Nov. 27; Serial No. 178,156; published Aug. 21, 1923.

American Lace Paper Company, Milwaukee, Wis. Paper wadding. 176,435; Nov. 27; Serial No. 182,784; published Sept. 11, 1923.

American Mechanical Works, Los Angeles, Calif. Automobile accessories, particularly foot throttles. 176,672; Nov. 27; Serial No. 182,393; published Sept. 11, 1923.

American Safety Razor Corporation, Brooklyn, N. Y. Razor sets. 176,673; Nov. 27; Serial No. 182,493; published Sept. 11, 1923.

American Writing Paper Company, Holyoke, Mass. Bristol paper. 176,404; Nov. 27; Serial No. 182,037; published Sept. 11, 1923.

Anglo-American Provision Company, Chicago, Ill. Lard. 24,555; renewed Apr. 17, 1924.

Anna Creamery Company, Anna, Ohio. Butter. 176,616; Nov. 27; Serial No. 174,685; published July 31, 1923.

Apollo Shirt Company, New York, N. Y. Dress and top shirts. 176,454; Nov. 27; Serial No. 176,869; published Sept. 18, 1923.

Applegate, Howard T., Montclair, N. J. Flexible shoulder straps. 176,511; Nov. 27; Serial No. 165,054; published Sept. 11, 1923.

Asia Company, The, Los Angeles, Calif. Bottled and barreled sauce, soy, packed miso, etc. 176,738; Nov. 27; Serial No. 174,163; published July 24, 1923.

Associated Oil Company, San Francisco, Calif. Kerosene. 176,768; Nov. 27.

Atlantic Refining Company, The, Philadelphia, Pa. Oils, greases, etc. 176,542; Nov. 27; Serial No. 183,812; published Sept. 18, 1923.

Austin, Nichols & Co., Inc., Brooklyn, N. Y. Canned sardines. 176,705; Nov. 27; Serial No. 178,206; published Sept. 11, 1923.

Baker Castor Oil Company, The, Jersey City, N. J., and New York, N. Y. Castor oil. 23,895–6; renewed Dec. 5, 1923.

Baldwin Tool Works, Parkersburg, W. Va. Shovels, spades, scoops, etc. 176,518; Nov. 27; Serial No. 166,638; published Sept. 11, 1923.

Bamberger, L. & Co., Newark, N. Y. Talking machines and pianos. 176,777; Nov. 27.

Bankers Supply Co., The, Denver, Colo., and Chicago, Ill. Publications issued weekly. 176,424; Nov. 27; Serial No. 181,509; published Sept. 11, 1923.

Barclay & Co., assignor to R. White & Sons, Limited, London, England. Aerated and nonalcoholic ale. 24,135; renewed Jan. 30, 1924.

Battle Creek Food Company, The, Battle Creek, Mich. Cereal biscuit. 176,751; Nov. 27; Serial No. 175,700; published Aug. 7, 1923.

Battle Creek Food Company, The, Battle Creek, Mich. Cereal breakfast food. 176,461; Nov. 27; Serial No. 176,247; published Aug. 21, 1923.

Battle Creek Food Company, The, Battle Creek, Mich. Vegetable food consisting of wheat protein combined with nuts. 176,453; Nov. 27; Serial No. 176,816; published Sept. 4, 1923.

Bauer & Black, Chicago, Ill. Gauze and absorbent cotton. 176,550; Nov. 27; Serial No. 183,355; published Sept. 18, 1923.

Bay State Milling Co., Winona, Minn. Wheat flour. 176,489; Nov. 27; Serial No. 175,061; published Aug. 21, 1923.

Beanpot, The, Boston, Mass. Periodically-issued magazine. 176,504; Nov. 27; Serial No. 163,571; published Sept. 11, 1923.

Bearman, William H., Baltimore, Md. Hosiery. 176,658; Nov. 27; Serial No. 181,973; published Sept. 18, 1923.

Beaumont Mfg. Company, Philadelphia, Pa. Gates for granular materials. 176,656; Nov. 27; Serial No. 181,920; published Sept. 11, 1923.

Bechdolt, Jack and M., doing business as Mabel Claire Studio, New York, N. Y. Candies. 176,585; Nov. 27; Serial No. 177,427; published Sept. 18, 1923.

Bechdolt, Mabel. (See Bechdolt, Jack and M.)

Beck Duplicator Company, The, New York, N. Y. Duplicating rolls. 176,702; Nov. 27; Serial No. 177,065; published Sept. 11, 1923.

Bellingham Publishing Company, Bellingham, Wash. Afternoon newspaper. 176,390; Nov. 27; Serial No. 175,127; published Apr. 17, 1923.

Bellingham Publishing Company, Bellingham, Wash. Morning newspaper. 176,386; Nov. 27; Serial No. 175,128; published Apr. 17, 1923.

Berger, Harry, doing business as Harry Berger Shirt Company, New York, N. Y. Men's and boys' collars, pyjamas, and shirts. 176,481; Nov. 27; Serial No. 180,739; published Sept. 11, 1923.

Best Foods, Inc., The, New York, N. Y. Vegetable shortening. 176,420; Nov. 27; Serial No. 182,198; published Sept. 11, 1923.

Bishop & Company, Los Angeles, Calif. Cookies. 176,679; Nov. 27; Serial No. 174,955; published July 31, 1923.

Bishop & Company, Los Angeles, Calif. Cookies. 176,698; Nov. 27; Serial No. 174,956; published July 31, 1923.

Bledsoe, Yancy M., Bonham, Tex. Wrenches. 176,553; Nov. 27; Serial No. 183,187; published Sept. 11, 1923.

Boldu-Branca, Carolina D., et al., successors. (See Scala, Maria B.)

Bonita Co., The, Fond du Lac, Wis. Candy. 176,604; Nov. 27; Serial No. 179,849; published Sept. 11, 1923.

Booty, Philip C. P., doing business as Innovation Specialties, assignor to Innovation Specialties Co. Inc., Chicago, Ill. Manicurists' buffing implements and renewal strips therefor. 176,394; Nov. 27; Serial No. 171,411; published Sept. 11, 1923.

Botany Worsted Mills, Passaic, N. J., and New York, N. Y. Woolen dress goods. 23,936; renewed Dec. 19, 1923.

Bowker Chemical Company, New York, N. Y. Water softener. 176,413; Nov. 27; Serial No. 178,706; published Aug. 14, 1923.

Boyd, Martin, & Co., Memphis, Tenn. Wheat flour. 176,567; Nov. 27; Serial No. 178,589; published Sept. 18, 1923.

Branca, Bernardino, et al., successors. (See Scala, Maria B.)

Branca, Dolores D., et al., successors. (See Scala, Maria B.)

Brauns, Wilhelm, Gesellschaft mit beschränkter Haftung, Quedlinburg, Germany. Colors for dyeing. 176,388; Nov. 27; Serial No. 174,161; published Aug. 14, 1923.

British Glues & Chemicals, Limited, London, England. Glue and gelatin glue. 176,499; Nov. 27; Serial No. 175,588; published Sept. 18, 1923.

Brogdex Company, Winter Haven, Fla. Coating material having paraffin as its base. 176,759; Nov. 27; Serial No. 175,708; published Sept. 11, 1923.

Bug Dust Shovel Co., The, Pennington Gap, Va. Dust shovels. 176,793; Nov. 27.

Bursley, G. E., & Company, Fort Wayne, Ind. Rolled oats, coffee, spaghetti, etc. 176,758; Nov. 27; Serial No. 175,183; published July 31, 1923.

Butler, J. W., Paper Co., The, Chicago, Ill. Wrapping paper, manila paper, envelopes, print book and document covers. 176,406; Nov. 27; Serial No. 180,839; published Aug. 28, 1923.

Buttersweet Products Corporation, Yonkers, N. Y. Candy. 176,439; Nov. 27; Serial No. 180,580; published Sept. 11, 1923.

California Central Creameries, San Francisco, Calif. Compound having adhesive qualities. 176,407; Nov. 27; Serial No. 180,840; published Sept. 11, 1923.

California Fruit Growers Exchange, Los Angeles, Calif. Citrous fruits in their natural state. 176,732; Nov. 27; Serial No. 173,621; published Sept. 4, 1923.

California Prune & Apricot Growers, Inc., assignor to California Prune & Apricot Growers Association, San Jose, Calif. Salad and cooking oils, macaroon paste, and crystallized fruit candies, etc. 176,727; Nov. 27; Serial No. 172,932; published Aug. 21, 1923.

Callard & Bowser, assignor to Callard & Bowser, Ltd., London, England. Candies and sweetmeats. 24,507; renewed Apr. 10, 1924.

Campe Corporation, New York, N. Y. Hosiery and knitted underwear. 176,475; Nov. 27; Serial No. 181,109; published Sept. 18, 1923.

Campe-Davis-Blair Co. Inc., New York, N. Y. Hosiery, socks, stockings, and underwear. 176,558; Nov. 27; Serial No. 180,747; published Sept. 18, 1923.

Canfield Rubber Company, The, Bridgeport, Conn., and New York, N. Y. Dress shields. 24,208; renewed Feb. 13, 1924.

Cape County Milling Co., Jackson, Mo. Wheat feed, shorts, and corn meal. 176,591; Nov. 27; Serial No. 179,182; published Sept. 18, 1923.

Car-Dumper & Equipment Co., Chicago, Ill. Self-dumping cages for cars, car control equipment, etc. 176,819; Nov. 27.

Case-Teel Company, Inc., Jackson, Miss., and New Orleans, La. Stock and poultry feed. 176,618; Nov. 27; Serial No. 174,509; published July 31, 1923.

Cashmere Fruit Growers Union, Cashmere, Wash. Fresh apples. 176,535; Nov. 27; Serial No. 182,563; published Sept. 11, 1923.

Cater, Dr. James S., doing business as Purer-Lene Mfg. Co., Marceline, Mo. Preparation for treating diseases of the mucous membranes. 176,380; Nov. 27; Serial No. 177,593; published Aug. 7, 1923.

Central Ohio Paper Company, The, Columbus, Ohio. Writing paper, tablets, papeteries, bristol board, and envelopes. 176,610; Nov. 27; Serial No. 179,458; published Sept. 11, 1923.

Champion Specialties Co. (See Palise, Joseph.)

Charleston Electrical Supply Co., Charleston, W. Va. Printed publication issued monthly. 176,728; Nov. 27; Serial No. 173,277; published Sept. 11, 1923.

Cherry Blossom Mfg. Co., St. Louis, Mo. Beverages and sirups for making same. 176,802; Nov. 27.

Chicago Paper Company, Chicago, Ill. Paper. 176,395; Nov. 27; Serial No. 171,726; published Sept. 11, 1923.

Chicago Paper Company, Chicago, Ill. Paper. 176,396; Nov. 27; Serial No. 171,728; published Sept. 11, 1923.

Church, C. F., Manufacturing Co., Holyoke, Mass. Bathroom fixtures. 176,476; Nov. 27; Serial No. 181,110; published Sept. 18, 1923.

City Refrigerator Company, Los Angeles, Calif. Refrigerator display cases. 176,409; Nov. 27; Serial No. 181,880; published Sept. 11, 1923.

Cleveland Chemical Corporation, Wilmington, Del., and Cleveland, Ohio. Polishing materials. 176,448; Nov. 27; Serial No. 176,949; published Sept. 18, 1923.

Cleveland Shopping News Company, The, Cleveland, Ohio. Newspaper. 176,693; Nov. 27; Serial No. 159,409; published Sept. 11, 1923.

Collegiate World Publishing Company, The, Chicago, Ill. Quarterly magazine. 176,422; Nov. 27; Serial No. 181,730; published Sept. 18, 1923.

Colonial Biscuit Company, The, Philadelphia, Pa. Cakes. 176,502; Nov. 27; Serial No. 159,410; published Aug. 7, 1923.

Colton Brothers Company, The, Bellefontaine, Ohio. Breakfast cereals. 176,755; Nov. 27; Serial No. 175,386; published Aug. 7, 1923.

Columbia Shirt Company, New York, N. Y. Dress and negligee shirts. 176,559–60; Nov. 27; Serial No. 180,788–9; published Sept. 11, 1923.

Commercial Chemical Co., Memphis, Tenn. Polish and dye for shoes and other leather and fabric articles. 176,805; Nov. 27.

Commercial Truck Company, Philadelphia, Pa. Magazine issued monthly. 176,710; Nov. 27; Serial No. 183,196; published Sept. 11, 1923.

Compania De Jarcia De Matanzas S. A., Matanzas, Cuba. Rope and twine. 176,594; Nov. 27; Serial No. 179,135; published Sept. 18, 1923.

Consolidated Mills Company. (See Alfocorn Milling Company.)

Cook, W. C., & Co., Clovis, Calif. Stuffed figs. 176,524; Nov. 27; Serial No. 183,053; published Sept. 18, 1923.

Coppes Brothers & Zook, Nappanee, Ind. Kitchen cabinets. 176,824; Nov. 27.

Cowiche Creamery, Cowiche, Wash. Butter, cheese. 176,731; Nov. 27; Serial No. 173,565; published July 31, 1923.

Cross, Walter B., Denver, Colo. Relishes and condiments, in the form of dressings and sauces, sandwiches, hash, etc. 176,733; Nov. 27; Serial No. 173,814; published Aug. 7, 1923.

Crown Die and Tool Company, Chicago, Ill. Dies, bench pipe vises, post pipe vises, etc. 176,605; Nov. 27; Serial No. 181,818; published Sept. 11, 1923.

Curry, J. Byrne, doing business as Curry & Coutellier, Los Angeles, Calif. Radio-detector crystalline compound for radio reception. 176,781; Nov. 27.

Davey Tree Expert Company, The, Kent, Ohio. Wood-preserving paints and shellac. 176,399; Nov. 27; Serial No. 182,296; published Sept. 11, 1923.

Davey Tree Expert Company, The, Kent, Ohio. Wood-preserving paints and shellac. 176,549; Nov. 27; Serial No. 183,054; published Sept. 18, 1923.

Davis, G. M., Regulator Company, Chicago, Ill. Valves, float boxes, etc. 176,664; Nov. 27; Serial No. 182,088; published Sept. 18, 1923.

Davol, Chas. J., North Kingstown, R. I. Milk, butter. 176,687; Nov. 27; Serial No. 167,714; published July 31, 1923.

De Bruyn, Limited, London, England. Flour improvers, a compound consisting of glycerine, oils, and fats. 176,694; Nov. 27; Serial No. 158,705; published Aug. 7, 1923.

Defiance Grocery Company, The, Defiance, Ohio. Coffee, tea, cocoa, spices, breakfast cereals, etc. 176,584; Nov. 27; Serial No. 177,367; published Aug. 21, 1923.

Delmas, Anna M., North Plainfield, N. J. Eatable tablets or cakes. 176,689; Nov. 27; Serial No. 167,557; published Sept. 11, 1923.

De Luc Company, Chicago, Ill. Beverage sold for soft drink purposes. 176,806; Nov. 27.

Denney & Denney, Philadelphia, Pa. Chemical preparation for application upon the face. 176,789; Nov. 27.

Diamond Cab Sales Corporation, New York, N. Y. Monthly publication. 176,419; Nov. 27; Serial No. 181,014; published Sept. 11, 1923.

Diem & Wing Paper Co., The, Cincinnati, Ohio. Ledger paper. 176,769–70; Nov. 27.

Ditzler Color Company, Detroit, Mich. Japan colors, varnishes, primers, paint enamels, and mixed paints. 176,392; Nov. 27; Serial No. 152,322; published Nov. 28, 1922.

Dolly Varden Chocolate Company, The, Cincinnati, Ohio. Candy. 176,538; Nov. 27; Serial No. 182,236; published Sept. 11, 1923.

Dorgan-McPhillips Sales Co. Inc., Mobile, Ala. Canned shrimp. 176,715; Nov. 27; Serial No. 183,258; published Sept. 18, 1923.

Douglass Caramel Company, Wilmington, Del., and Philadelphia, Pa. Candies. 176,605; Nov. 27; Serial No. 179,591; published Sept. 18, 1923.

Dunlevy Packing Company, assignor to Dunlevy-Franklin Company, Pittsburgh, Pa. Butter, margarines, eggs, lard, etc. 176,646; Nov. 27; Serial No. 155,668; published July 24, 1923.

Du Pont Engineering Company, Wilmington, Del. Metallic alloys. 176,593; Nov. 27; Serial No. 178,981; published Sept. 18, 1923.

Eagle Carburetor Company, The, Cleveland, Ohio. Carburetors and parts thereof. 176,667; Nov. 27; Serial No. 181,823; published Sept. 11, 1923.

Eastern Foundry Company, The, Boyertown, Pa. Cast-iron pipe and fittings and other plumbers' supplies. 176,579; Nov. 27; Serial No. 178,095; published June 12, 1923.

Eaton Axle & Spring Company, The, Cleveland, Ohio. Automobile bumpers and bumper fittings. 176,775; Nov. 27.

Edgerton Manufacturing Co., The, Plymouth, Ind. Baskets. 176,428; Nov. 27; Serial No. 183,698; published Sept. 11, 1923.

Edwards, Nora C., doing business as Edwards Skirt Supporter Co., Buffalo, N. Y. Iron-rust, ink, and stain soap. 176,381; Nov. 27; Serial No. 177,658; published Aug. 7, 1923.

Eglington, Ferdinand, Walsall, England. Bits, stirrups, spurs, etc. 176,415; Nov. 27; Serial No. 180,368; published Oct. 16, 1923.

Elliott Company, The, Kittery, Me., and Cambridge, Mass. Stencil cabinets. 176,438; Nov. 27; Serial No. 180,693; published Sept. 11, 1923.

Estate of Charles J. Fisk, deceased; H. Fisk and L. E. Waring, executors, Trenton Junction, N. J. Live poultry and eggs. 176,746; Nov. 27; Serial No. 176,020; published Aug. 14, 1923.

Estes, St. Louis, Chicago, Ill. Monthly magazines. 176,602; Nov. 27; Serial No. 179,716; published Sept. 11, 1923.

Fairchild Company, Chicago, Ill. Magazine article. 176,531; Nov. 27; Serial No. 182,853; published Sept. 18, 1923.

Fansteel Products Company, Inc., North Chicago, Ill. Poppet valves. 176,659; Nov. 27; Serial No. 182,965; published Sept. 11, 1923.

Fansteel Products Company, Inc., North Chicago, Ill. Poppet valves. 176,661; Nov. 27; Serial No. 182,964; published Sept. 11, 1923.

Faribault Canning Co., Faribault, Minn. Canned sweet corn. 176,540; Nov. 27; Serial No. 182,408; published Sept. 11, 1923.

Fiber-Glass Food Cover Company, Chicago, Ill. Transparent food covers. 176,739; Nov. 27; Serial No. 176,612; published Sept. 11, 1923.

Fibre Specialty Mfg. Co., Kennett Square, Pa.; Boston, Mass.; New York, N. Y.; Philadelphia, Pa.; St. Louis, Mo., and Chicago, Ill. Vulcanized-fiber containers. 176,562; Nov. 27; Serial No. 180,426; published Sept. 18, 1923.

Fischer Brothers Company, Seattle, Wash. Canned fruits, vegetables, and fish, tea, coffee, etc. 176,750; Nov. 27; Serial No. 175,782; published Aug. 14, 1923.

Fisk, Harvey, et al., executors. (See Estate of Charles J. Fisk.)

Five-In-One Manufacturing Co., Dallas, Tex. Hair tonic and shampoo. 176,412; Nov. 27; Serial No. 178,698; published Aug. 14, 1923.

Floradel Knitting Mills Inc., New Orleans, La. Socks, stockings, hosiery. 176,491; Nov. 27; Serial No. 172,798; published Sept. 18, 1923.

Florida Products Company, Inc., New York, N. Y. Marmalade. 176,532; Nov. 27; Serial No. 182,505; published Sept. 11, 1923.

Foster, Van B., doing business as Fred B. Foster & Company, Los Angeles, Calif. Oil derricks. 176,479; Nov. 27; Serial No. 181,067; published Sept. 18, 1923.

Franco-American Baking Co., Los Angeles, Calif. Rolls and bread. 176,463; Nov. 27; Serial No. 176,401; published Aug. 21, 1923.

Frank & Meyer Neckwear Co., St. Louis, Mo. Neckties, cravats, and scarfs. 176,494; Nov. 27; Serial No. 168,465; published Sept. 18, 1923.

Frazar & Company, San Francisco, Calif. Canned fruits and vegetables. 176,718; Nov. 27; Serial No. 183,371; published Sept. 18, 1923.

Fred Pabst Company, Milwaukee, Wis. Metal pipe nipples. 176,486; Nov. 27; Serial No. 180,718; published Sept. 18, 1923.

Freeman, Ralph D., doing business as The Savol Co., Cleveland, Ohio. Enamel finish. 176,666; Nov. 27; Serial No. 182,205; published Sept. 18, 1923.

Friedman Bros. & Sons Neckwear Co. Inc., New York, N. Y. Ties, cravats, four-in-hand ties, and bow ties. 176,473; Nov. 27; Serial No. 181,271; published Sept. 18, 1923.

Galena Oil Works, assignor to Galena-Signal Oil Company, Franklin, Pa. Lubricating oil. 23,968; renewed Jan. 2, 1924.

Garrison, Harry B., also doing business as The Silvodent Co., Portland, Oreg. Foundation and pulp protector used in making metal dental fillings. 176,427; Nov. 27; Serial No. 183,269; published Sept. 11, 1923.

Geiger Candy Company, Indianapolis, Ind. Candy. 176,525; Nov. 27; Serial No. 183,058; published Sept. 18, 1923.

Geiger Candy Company, Indianapolis, Ind. Candy. 176,707–8; Nov. 27; Serial Nos. 183,060–1; published Sept. 18, 1923.

George Urban Milling Company, Buffalo, N. Y. Wheat flour and rye flour. 176,741; Nov. 27; Serial No. 176,299; published Aug. 14, 1923.

Gilbert, A., & Sons Brass Foundry Co., St. Louis, Mo. Brass, aluminum, etc., ingots and castings. 176,629; Nov. 27; Serial No. 163,515; published Sept. 18, 1923.

Gilbert Paper Co., Menasha, Wis. Bond, ledger, and writing, papers. 176,401; Nov. 27; Serial No. 182,410; published Sept. 11, 1923.

Given, John M., Company, The, New York, N. Y.; Chicago, Ill., and Pittsburgh, Pa. Hosiery. 176,483; Nov. 27; Serial No. 180,660; published Sept. 18, 1923.

Given, John M., Company, The, New York, N. Y.; Chicago, Ill., and Pittsburgh, Pa. Hosiery. 176,485; Nov. 27; Serial No. 180,699; published Sept. 18, 1923.

Glidden Company, The, Cleveland, Ohio. Paints and varnishes. 176,387; Nov. 27; Serial No. 172,672; published Sept. 11, 1923.

Goepel, Charles H., jr., Philadelphia, Pa. Hosiery. 176,597; Nov. 27; Serial No. 178,719; published Sept. 11, 1923.

Gol-Mar. (See Gold, Jacob N.)

Gold Buckle Association, East Highlands, Calif. Citrous fruits. 176,497; Nov. 27; Serial No. 173,643; published Sept. 25, 1923.

Gold Buckle Association, East Highlands, Calif. Citrous fruits. 176,498; Nov. 27; Serial No. 173,637; published Sept. 11, 1923.

Gold, Jacob N., doing business as Gol-Mar, Philadelphia, Pa. Automobile accessories. 176,513; Nov. 27; Serial No. 164,431; published July 17, 1923.

Golden Rule Ref. Co., Wichita, Kans. Gasoline, kerosene, and lubricating oils. 176,490; Nov. 27; Serial No. 166,770; published Nov. 14, 1922.

Goldsmith, Henry N., Philadelphia, Pa. Paper towels, paper napkins, wrappers for delicatessen lunches. 176,397; Nov. 27; Serial No. 182,750; published Sept. 11, 1923.

Goodman, A., & Sons, Inc., New York, N. Y. Alimentary paste products. 176,682; Nov. 27; Serial No. 169,545; published Sept. 11, 1923.

Grand Lake & Gulf Shrimp Company, Westwego, La. Canned shrimp. 176,533–4; Nov. 27; Serial Nos. 182,512–13; published Sept. 11, 1923.

Great Southern Refining Company, Lexington, Ky. Lubricating oils and greases. 176,466; Nov. 27; Serial No. 176,078; published Sept. 18, 1923.

Groeniger Manufacturing Company, The, Columbus, Ohio. Plumbers' ware. 176,586; Nov. 27; Serial No. 177,486; published Sept. 18, 1923.

Growers Service Co., Yucaipa, Calif. Fresh apples. 176,723; Nov. 27; Serial No. 171,840; published Sept. 11, 1923.

Haas Brothers, New York, N. Y., and San Francisco, Calif. Oysters. 24,182; renewed Feb. 6, 1924.

Half Moon Fruit & Produce Co., San Francisco, Calif. Fresh cantaloupes, cassaba, and fresh vegetables. 176,507; Nov. 27; Serial No. 159,870; published Sept. 11, 1923.

Hansen's, Chr., Laboratory, Inc., Little Falls, N. Y. House organ published monthly. 176,417; Nov. 27; Serial No. 180,761; published Sept. 18, 1923.

Harrington & Hord, Fort Worth, Tex. Article of food. 176,684; Nov. 27; Serial No. 169,129; published July 31, 1923.

Harrison & Co., also doing business as Harrison Flour Mills Co., New York, N. Y. Wheat flour. 176,516; Nov. 27; Serial No. 166,371; published July 31, 1923.

Harrison & Co., also doing business as Harrison Flour Mills Co., New York, N. Y. Wheat flour. 176,517; Nov. 27; Serial No. 166,672; published July 31, 1923.

Harrison & Co., also doing business as Harrison Flour Mills Co., New York, N. Y. Wheat flour. 176,521; Nov. 27; Serial No. 166,673; published July 31, 1923.

Hartwell Brothers, Memphis, Tenn. Tool handles. 176,653; Nov. 27; Serial No. 182,913; published Sept. 18, 1923.

Hartwell Brothers, Memphis, Tenn. Tool handles. 176,655; Nov. 27; Serial No. 182,912; published Sept. 18, 1923.

Hartwell Brothers, Memphis, Tenn. Tool handles. 176,657; Nov. 27; Serial No. 182,911; published Sept. 18, 1923.

Hartwell Brothers, Memphis, Tenn. Tool handles. 176,663; Nov. 27; Serial No. 182,915; published Sept. 18, 1923.

Hartwell Brothers, Memphis, Tenn. Tool handles. 176,677–8; Nov. 27; Serial Nos. 182,909–10; published Sept. 18, 1923.

Hartwell Brothers, Memphis and Hollywood Station, Memphis, Tenn. Tool handles. 176,675–6; Nov. 27; Serial Nos. 182,906–7; published Sept. 18, 1923.

Heidelberg, Wolff & Co., New York, N. Y. Overcoats, raincoats, smoking jackets, etc. 176,587; Nov. 27; Serial No. 179,728; published Sept. 11, 1923.

Heildelberg, Wolff & Company, New York, N. Y. Overcoats, raincoats, smoking jackets, house coats, etc. 176,565; Nov. 27; Serial No. 179,727; published Sept. 11, 1923.

Heller, L., & Son, Inc., New York, N. Y. Pearls and reproductions of pearls or imitations thereof. 176,786; Nov. 27.

Henry & Allen, Auburn, N. Y. Wrenches and parts thereof. 176,557; Nov. 27; Serial No. 183,034; published Sept. 11, 1923.

Hercules Powder Company, Wilmington, Del. Compounded oil used for flotation purposes. 176,782; Nov. 27.

Hires, Charles E., Company, The, Philadelphia, Pa. Root beer. 24,058; renewed Jan. 16, 1924.

Hisgen Bros., assignor to Sinclair Refining Company, Albany, N. Y. Axle grease. 24,196; renewed Feb. 6, 1924.

Hodapp, Clarence G., doing business as Minute Kleen Laboratories, Detroit, Mich. Preparations for polishing automobiles, pianos, etc. 176,779; Nov. 27.

Hoegger, J. A., Jersey City, N. J. Supports for bathroom and other fixtures. 176,573; Nov. 27; Serial No. 178,503; published Sept. 18, 1923.

Hoey, John, & Co., San Francisco, Calif. Mattresses. 176,703; Nov. 27; Serial No. 177,085; published Sept. 11, 1923.

Hoffmann, J. G., Sons Co., Wheeling, W. Va. Oak-tanned harness leather. 24,045; renewed Jan. 16, 1924.

Holland Furnace Company, Holland, Mich. Magazine published monthly. 176,426; Nov. 27; Serial No. 181,024; published Sept. 11, 1923.

Hollins, William, & Co. Ltd., London and Mansfield, England. Negligee shirts, collars, pyjamas, etc. 176,623; Nov. 27; Serial No. 161,005; published Sept. 18, 1923.

Holt Manufacturing Company, The, Stockton, Calif. Harvesters, thrashers, and combined harvesters and thrashers. 176,668; Nov. 27; Serial No. 182,213; published Sept. 11, 1923.

Home Food Service Company Incorporated, Denver, Colo. Breakfast cereal foods. 176,692; Nov. 27; Serial No. 167,084; published July 31, 1923.

Honeywell Heating Specialties Company, Wabash, Ind. Fluid-pressure regulating and controlling instruments. 176,762; Nov. 27; Serial No. 175,396; published Sept. 18, 1923.

Hood River Apple Vinegar Co., Hood River, Oreg. Fruit pectin. 176,711; Nov. 27; Serial No. 183,213; published Sept. 18, 1923.

Hooton Cocoa Company, Newark, N. J. Cocoa and chocolate. 176,536; Nov. 27; Serial No. 182,587; published Sept. 11, 1923.

Hulman & Co., Terre Haute, Ind. Spices, bay leaves, cassia, cinnamon, etc. 176,722; Nov. 27; Serial No. 170,919; published Aug. 7, 1923.

Humphrey Elevator Co. Faribault, Minn. Elevators. 176,674; Nov. 27; Serial No. 182,815; published Sept. 25, 1923.

Ideal Caramel Company, Inc., Johnson, N. Y. Candies, candy confections, sweetmeats, and chewing gum. 176,704; Nov. 27; Serial No. 177,227; published Sept. 4, 1923.

Illinois Meat Company, Chicago, Ill. Meats, hams, bacon, lard, etc. 176,621; Nov. 27; Serial No. 174,306; published Sept. 18, 1923.

Imperial Trust for the Encouragement of Scientific and Industrial Research, The, London, England. Thermometers, pyrometers, compasses, etc. 176,635; Nov. 27; Serial No. 163,983; published Sept. 18, 1923.

Imperial Trust for the Encouragement of Scientific and Industrial Research, The, London, England. Thermometers, pyrometers, compasses, etc. 176,639; Nov. 27; Serial No. 163,984; published Sept. 18, 1923.

Indiana Truck Corporation, Marion, Ind. Motor trucks. 176,784; Nov. 27.

Innovation Specialties Co. (See Booty, Philip C. P., assignor.)

International Bank, Washington, D. C. Printed circulars, bulletins, digests, etc. 176,539; Nov. 27; Serial No. 182,310; published Sept. 11, 1923.
International Milling Company, Minneapolis, Minn. Wheat flour. 176,578; Nov. 27; Serial No. 178,044; published Aug. 21, 1923.
Isterling, John P., doing business as The Isterling Chemical Company, New Salisbury, Ind. Preparation for the treatment of dandruff, falling hair, etc. 176,790; Nov. 27.
Jaburg Brothers, Inc., New York, N. Y. Oleomargarine. 176,455; Nov. 27; Serial No. 176,630; published Sept. 11, 1923.
Jackson Paper Co., Jackson, Miss. Tablets and school pads. 176,436; Nov. 27; Serial No. 182,816; published Sept. 11, 1923.
Jaden, Fred I., doing business as F. Jaden Manufacturing Co., Hastings, Nebr. Tire pumps, slip-on connections for tire pumps, and air chucks. 176,469; Nov. 27; Serial No. 181,282; published Sept. 18, 1923.
Jalkoff Bros. Inc., New York, N. Y. Fur coats, capes, scarfs, etc. 176,570; Nov. 27; Serial No. 178,505; published Sept. 18, 1923.
Jenkins Bros. Limited, Montreal, Quebec, Canada. Globe and gate valves. 176,564; Nov. 27; Serial No. 180,605; published Sept. 18, 1923.
Jensen & Sons, Watsonville and Corralitos, Calif. Fresh apples. 176,530; Nov. 27; Serial No. 182,916; published Sept. 18, 1923.
Johns-Manville, Incorporated, New York, N. Y. Pipe covering. 176,709; Nov. 27; Serial No. 183,155; published Sept. 18, 1923.
Johnson, George H., Worcester, Mass. Oily compound for use in treating the surfaces of stoves and furnaces. 176,598; Nov. 27; Serial No. 178,850; published Sept. 18, 1923.
Johnson, S. C., & Son, Racine, Wis. Prepared wax and paint and varnish remover. 176,405; Nov. 27; Serial No. 182,102; published Sept. 11, 1923.
Johnston, R. F., Paint Co., Cincinnati, Ohio. Oil paints. 176,816; Nov. 27.
Joseph, I. S., Company, Minneapolis, Minn. Stock feed. 176,595; Nov. 27; Serial No. 179,151; published Sept. 11, 1923.
Justi, H. D., & Son, Philadelphia, Pa. Artificial teeth. 176,477; Nov. 27; Serial No. 181,028; published Sept. 18, 1923.
Kahn's, E., Sons Company, The, Cincinnati, Ohio. Lard. 176,638; Nov. 27; Serial No. 165,451; published Sept. 18, 1923.
Kahn's, E., Sons Company, The, Cincinnati, Ohio. Tankage. 176,745; Nov. 27; Serial No. 176,191; published Aug. 14, 1923.
Kann, William L., Pittsburgh, Pa. Oranges, bananas, mangoes, canned vegetables, etc. 176,529; Nov. 27; Serial No. 182,424; published Sept. 18, 1923.
Kattulas and Sotos, Williamsport, Pa. Medical compounds for the treatment of rheumatism. 176,378; Nov. 27; Serial No. 177,674; published Aug. 28, 1923.
Kehoe Preserving Company, Terre Haute, Ind. Vegetable seeds. 176,434; Nov. 27; Serial No. 176,521; published July 3, 1923.
Kellogg Toasted Corn Flake Co., Battle Creek, Mich. Cereal breakfast foods. 176,726; Nov. 27; Serial No. 172,884; published July 24, 1923.
Keokuk Canning Company, Keokuk, Iowa. Canned tomatoes and preserved pickles. 176,611; Nov. 27; Serial No. 179,276; published Sept. 11, 1923.
Keystone Fruit Products Company, Cincinnati, Ohio. Bakers' vanilla, tomato bouilion, cocoa paste, etc. 176,651; Nov. 27; Serial No. 143,501; published Aug. 28, 1923.
Kieley & Mueller, Inc., New York, N. Y. Valves, traps, and regulators. 176,551; Nov. 27; Serial No. 183,071; published Sept. 11, 1923.
Kil-Tone Company, The, Vineland, N. J. Insecticide and fungicide. 176,379; Nov. 27; Serial No. 177,561; published Aug. 7, 1923.
King, M. D., Milling Company, Pittsfield, Ill. Wheat flour. 176,743–4; Nov. 27; Serial Nos. 176,192–3; published Aug. 14, 1923.
Kockos Bros., Inc., San Francisco, Calif. Canned fruits, vegetables, and fish. 176,712–3; Nov. 27; Serial Nos. 183,216–7; published Sept. 18, 1923.
Kold'nKlear Spring Water Co. (See Russell, Berry J.)
Kops Brewery, assignor to R. White & Sons, Limited, London, England. Ale, aerated and nonalcoholic. 24,091; renewed Jan. 23, 1924.
Kumpf, David M., Pekin, Ill. Writing pads. 176,795; Nov. 27.
Laird, Edwin C., doing business as The Safety Holder Co., Richmond, Va. Bedcover holders. 176,773; Nov. 27.
Leo, Ansel S., New York, N. Y. Wheat flour. 176,650; Nov. 27; Serial No. 143,823; published July 31, 1923.
Leon Israel & Bros., Inc., New York, N. Y. Coffee and tea. 176,652; Nov. 27; Serial No. 125,112; published Sept. 11, 1923.
Levey Printing Company, Indianapolis, Ind. Paper, blank books, etc. 176,730; Nov. 27; Serial No. 173,508; published Sept. 11, 1923.
Levite Manufacturing Company, Dothan, Ala. Tonic to be applied to the scalp and as a tonic and dressing for the hair. 176,377; Nov. 27; Serial No. 177,679; published July 31, 1923.
Levy-Shulman & Co. Inc., New York, N. Y. Dresses. 176,801; Nov. 27.
Libby, McNeill & Libby, Chicago, Ill. Pork and beans, meat extracts, bouillon cubes, etc. 176,503; Nov. 27; Serial No. 159,711; published July 31, 1923.
Life O Wheat Milling & Baking Co. (See Sampson, Paul O.)
Lily Brook Farms, Inc., Buffalo, N. Y. Cheese, canned, fresh, and evaporated milk and cream. 176,740; Nov. 27; Serial No. 175,800; published Aug. 7, 1923.
Lion Knitting Mills. (See Neuman & Silver.)
Lipton, Thomas J., London, England, Colombo, Ceylon, and Calcutta, India. Coffee and tea. 23,837–8; renewed Nov. 21, 1923.
Locci, Matte, doing business as Matte Locci Co., Chicago, Ill. French dressing, olive oil, cheese, and cheese dressing. 176,576; Nov. 27; Serial No. 178,265; published Aug. 21, 1923.
Loft, Inc., New York, N. Y. Candies. 176,437; Nov. 27; Serial No. 180,708; published Sept. 11, 1923.
Longmont Farmers Milling & Elevator Co., The, Longmont, Colo. Wheat flour. 176,681; Nov. 27; Serial No. 169,722; published July 31, 1923.
Lorraine Manufacturing Company, Pawtucket, R. I. Men's and women's raincoats, and ladies' skirts, dresses, etc. 176,798; Nov. 27.
Lorraine Manufacturing Company, Pawtucket, R. I. Men's suits, dusters, coats, and caps and ladies' suits, wraps, etc. 176,799; Nov. 27.
Louis Diamond Co., Inc., New York, N. Y. Shirts and blouses. 176,554; Nov. 27; Serial No. 180,922; published Sept. 11, 1923.
Louisville Paper Co., Louisville, Ky. Bond paper. 176,402; Nov. 27; Serial No. 181,902; published Sept. 11, 1923.
Louisville Paper Co., Louisville, Ky. Bond paper. 176,421; Nov. 27; Serial No. 181,901; published Sept. 11, 1923.
Louisville Paper Co., Louisville, Ky. Linen ledger paper. 176,778; Nov. 27.
Lowe, Joe, Co. Inc., Brooklyn, N. Y. Cake and cake mix. 176,580; Nov. 27; Serial No. 178,109; published Aug. 21, 1923.
Luden, Wm. H., Inc., Reading, Pa. Candy. 176,444; Nov. 27; Serial No. 180,541; published Sept. 18, 1923.
Luden, Wm. H., Inc., Reading, Pa. Marshmallow candies. 176,716; Nov. 27; Serial No. 183,308; published Sept. 18, 1923.
Luno, Everett A., Independence, Mo. Writing pads. 176,791; Nov. 27.
Lustine, Harry, Washington, D. C. Coffee. 176,808; Nov. 27.
McMorran, C. W., San Francisco, Calif. Chowder. 176,740; Nov. 27; Serial No. 176,491; published Sept. 11, 1923.
Mabee, Charles R., Chicago, Ill. Livestock feeds. 176,501; Nov. 27; Serial No. 173,971; published Aug. 21, 1923.
Mable Claire Studio. (See Bechdolt, Jack and M.)
Mabrey, Phil L., Columbus, Ohio. Steam-laundry scouring compound. 176,792; Nov. 27.
MacLean Drug Company, Chicago, Ill. Shoe polish, shaving cream, soap, etc. 176,753; Nov. 27; Serial No. 175,504; published Sept. 11, 1923.
Magnus Imports, Ltd., New York, N. Y. Clothing. 176,561; Nov. 27; Serial No. 180,871; published Sept. 18, 1923.
Malsin, Albert, New York, N. Y. Soap. 176,514; Nov. 27; Serial No. 164,060; published Sept. 11, 1923.
Marett, Ruby E., New York, N. Y. Beverages, fruit syrups, extracts, and flavorings for the same. 176,429; Nov. 27; Serial No. 184,412; published Sept. 18, 1923.
Marinello Company, La Crosse, Wis. Rouge and face powder. 176,383; Nov. 27; Serial No. 177,187; published July 31, 1923.
Marrus, Isaac L., Scranton, Pa. Suits, overcoats, sheepskin coats, pants, etc. 176,449; Nov. 27; Serial No. 177,310; published Sept. 18, 1923.
Marshall, Harry G., Newark, Ohio. Saccharine. 176,818; Nov. 27.
Martin Cantine Co., The, Saugerties, N. Y. Enameled book paper. 176,430–1; Nov. 27; Serial Nos. 182,980–1; published Sept. 11, 1923.
May, D. B., doing business as D. B. May Hosiery Mills, Burlington, N. C. Hosiery. 176,569; Nov. 27; Serial No. 178,562; published Sept. 18, 1923.
Mayer, Sig. C. & Company, Inc., Philadelphia, Pa. Cigars. 176,803; Nov. 27.
Mellor, Walter, Philadelphia, Pa., and Cummington, Mass. Raw milk and cream, butter, cheese, eggs, etc. 176,510; Nov. 27; Serial No. 166,082; published July 31, 1923.
Meridian Grain & Elevator Company. (See Wilson, John M.)
Midcontinent Producers' & Refiners' Corporation, Cleveland, Ohio. Canned motor oils. 176,389; Nov. 27; Serial No. 175,094; published Aug. 7, 1923.
Miller Brothers, New York, N. Y. Ladies' dresses, bath robes, aprons, negligees. 176,495; Nov. 27; Serial No. 166,841; published Sept. 18, 1923.
Miller, Henry K., doing business as Psychology Publishing Company, New York, N. Y. Periodicals published monthly. 176,526; Nov. 27; Serial No. 182,600; published Sept. 11, 1923.

Miller, Henry K., doing business as Psychology Publishing Company, New York, N. Y. Periodicals published either bimonthly or quarterly. 176,714; Nov. 27; Serial No. 183,220; published Sept. 11, 1923.
Miller's, Jacob, Sons Co., Philadelphia, Pa. Shirts. 176,478; Nov. 27; Serial No. 181,039; published Sept. 11, 1923.
Mincey Manufacturing Company, Gainesville, Ga. Dress and work shirts, underwear. 176,482; Nov. 27; Serial No. 180,982; published Sept. 18, 1923.
Minneapolis Milling Co., Minneapolis, Minn. Wheat flour. 176,735; Nov. 27; Serial No. 173,974; published Aug. 7, 1923.
Minute Kleen Laboratories. (See Hodapp, Clarence G.)
Model Mill Company, Jackson, Tenn. Wheat flour. 176,748; Nov. 27; Serial No. 175,802; published Aug. 7, 1923.
Montague, W. R., Company, The, La Crosse, Wis. Candy. 176,688; Nov. 27; Serial No. 167,580; published July 31, 1923.
Moses, Sydney, New York, N. Y. Dresses. 176,471–2; Nov. 27; Serial Nos. 181,140–1; published Sept. 11, 1923.
MotoVisor Company, St. Paul, Minn. Motor-vehicle windshield shades. 176,649; Nov. 27; Serial No. 149,858; published Sept. 11, 1923.
Nafziger Baking Company, Kansas City, Mo. Bread. 176,756; Nov. 27; Serial No. 175,262; published July 31, 1923.
National Federation of Uncle Sam's Voters, Washington, D. C. Monthly publication. 176,537; Nov. 27; Serial No. 182,218; published Sept. 18, 1923.
National Licorice Company, Brooklyn, N. Y. Licorice candy. 176,523; Nov. 27; Serial No. 183,041; published Sept. 18, 1923.
Neuman & Silver, doing business as Lion Knitting Mills, Philadelphia, Pa. Sweaters. 176,760; Nov. 27; Serial No. 175,511; published Aug. 21, 1923.
Neutral Soap Co., Chicago, Ill. Washing cleanser. 176,699; Nov. 27; Serial No. 176,642; published Sept. 11, 1923.
Nestlé & Anglo-Swiss Condensed Milk Co., Cham and Vevey, Switzerland. Concentrated milk without sugar. 176,695; Nov. 27; Serial No. 157,628; published Sept. 18, 1923.
Nestlé & Anglo-Swiss Condensed Milk Co., Cham and Vevey, Switzerland. Café au lait. 176,696; Nov. 27; Serial No. 157,627; published Sept. 18, 1923.
Nestlé & Anglo-Swiss Condensed Milk Co., Cham and Vevey, Switzerland. Condensed milk. 176,697; Nov. 27; Serial No. 157,625; published Sept. 11, 1923.
Newark Tortoise Shell Novelty Co., Newark, N. J. Hand mirrors and picture frames of celluloid and similar materials. 176,794; Nov. 27.
No-Mor Products Co., Los Angeles, Calif. Liquid composition for exterminating insects. 176,446; Nov. 27; Serial No. 180,292; published Aug. 28, 1923.
Norfolk Mattress Company, Inc., Norfolk, Va. Bed springs and bedsteads. 176,443; Nov. 27; Serial No. 180,547; published Sept. 11, 1923.
Norris, Allster-Ball Company, The, Chicago, Ill. Watches, watch movements, and parts of watches. 176,783; Nov. 27.
North British Rubber Company, L't'd, Edinburgh, Scotland and London, England. Rubber-soled canvas shoes. 23,666; renewed Oct. 3, 1923.
Northfield Flour Mills Company, Northfield, Minn. Wheat flour. 176,458–9; Nov. 27; Serial Nos. 176,423–4; published Aug. 21, 1923.
Northfield Flour Mills Company, Northfield, Minn. Wheat flour. 176,464; Nov. 27; Serial No. 176,422; published Aug. 21, 1923.
Northwest Nitrox Company. (See Platt, E. F.)
Northwestern Yeast Company, Chicago, Ill. Yeast and vitamine food products which involves the use of yeast. 176,509; Nov. 27; Serial No. 164,658; published Aug. 14, 1923.
Nu-Pep Company, The. (See Palmer, John W.)
Obrecht, G. Fred, doing business as P. Fred'k Obrecht & Son, Baltimore, Md. Horse, poultry, hog, and dairy feed. 176,754; Nov. 27; Serial No. 175,405; published Aug. 7, 1923.
Olson, Oscar E., doing business as Olson Manufacturing Co., Cleveland, Ohio. Tonic. 176,771; Nov. 27.
Optical Products Corporation, New York, N. Y. Frames, rims, nose pieces, and celluloid appliances for eyeglasses. 176,575; Nov. 27; Serial No. 178,184; published Sept. 18, 1923.
Organ-Iron Medicine Company, Omaha, Nebr. Medicine used in cases of inflammation, ulceration, and discharges of the urinary tract. 176,410; Nov. 27; Serial No. 178,458; published Aug. 7, 1923.
Ormerod, John, & Sons, Ltd., Castleton, England. Leather belting. 176,720; Nov. 27; Serial No. 170,832; published Sept. 11, 1923.
P-K Manufacturing Company, The, Cleveland, Ohio. Water-power beater and whipper. 176,669; Nov. 27; Serial No. 182,257; published Sept. 11, 1923.
Palise, Joseph, doing business as Champion Specialties Co., Brooklyn, N. Y. Liquid polish and shellac. 176,543; Nov. 27; Serial No. 183,226; published Sept. 18, 1923.
Palmer, John W., doing business as The Nu-Pep Company, Chicago, Ill. Nonalcoholic beverages. 176,415; Nov. 27; Serial No. 180,386; published Sept. 18, 1923.
Palumbo, J. C., Pavette, Idaho. Fresh apples. 176,522; Nov. 27; Serial No. 182,928; published Sept. 18, 1923.
Panoulias, Panayiotis D., doing business as The American Chocolate Almond Co., Jersey City, N. J. Nonconstipating health chocolate food product. 176,512; Nov. 27; Serial No. 164,449; published Sept. 11, 1922.
Paraffine Companies, Inc., The, San Francisco, Calif. Flat undercoat paint. 176,544; Nov. 27; Serial No. 183,588; published Sept. 18, 1923.
Paraffine Companies, Inc., The, San Francisco, Calif. Flat undercoat paint. 176,545; Nov. 27; Serial No. 183,591; published Sept. 18, 1923.
Park & Tilford, New York, N. Y. Fruit (in jars), Maraschino cherries, figs, dates, etc. 176,725; Nov. 27; Serial No. 172,553; published July 31, 1923.
Patrick, F. A., & Co., Duluth, Minn. Clothing. 176,809; Nov. 27.
Pedigreed Products Corporation, Elmira, N. Y. Nuts, salted nuts, granulated nuts, and peanut butter. 176,700; Nov. 27; Serial No. 176,648; published Sept. 11, 1923.
Penn Trouser Co., Pittsburgh, Pa. Trousers, men's work pants, and trousers for outdoor and indoor sports. 176,821; Nov. 27.
Perceval, C., New York, Y. Capers, vinegar, olives, pickles, lard, etc. 176,701; Nov. 27; Serial No. 177,049; published Sept. 11, 1923.
Perkins-Campbell Company, The, Cincinnati, Ohio. Automobile and vehicle coverings. 176,813; Nov. 27.
Peter Hand Brewery Co., The: The Peter Hand Company, Chicago, Ill., successors. Lager beer. 24,057; renewed Jan. 16, 1924.
Peters, Albert T., doing business as Vitamineral Products Co., Peoria, Ill. Cattle, swine, dairy, and poultry feed. 176,506; Nov. 27; Serial No. 161,200; published July 31, 1923.
Peters, M. C., Mill Co., Omaha, Nebr. Poultry feeds. 176,577; Nov. 27; Serial No. 177,993; published Aug. 21, 1923.
Petrie, William K., Dundee, Scotland. Floor polish. 176,641; Nov. 27; Serial No. 166,091; published Sept. 18, 1923.
Phenix Cheese Co., New York, N. Y. Cheese. 176,724; Nov. 27; Serial No. 172,392; published July 24, 1923.
Phillips, Charles H., Chemical Co., The, Glenbrook, Conn., and New York, N. Y. Cocoa and chocolate. 176,613; Nov. 27; Serial No. 178,465; published Sept. 11, 1923.
Phillips, Charles H., Chemical Co., The, Glenbrook, Conn., and New York, N. Y. Cocoa and chocolate. 176,706; Nov. 27; Serial No. 178,464; published Sept. 11, 1923.
Phillips, Charles H., Chemical Company, The, New York, N. Y. Essential oils and chemicals. 24,395; renewed Mar. 20, 1924.
Phillips, Charles H., Chemical Company, The, New York, N. Y. Preparation of magnesia. 24,049; renewed Jan. 16, 1924.
Phinney-Walker Company, New York, N. Y. Clocks. 176,764; Nov. 27.
Phinney-Walker Company, New York, N. Y. Clocks. 176,766–7; Nov. 27.
Phoenix Flour Mill, Evansville, Ind. Wheat flour. 176,451; Nov. 27; Serial No. 176,914; published Aug. 14, 1923.
Phoenix Glass Company, The, Monaca, Pa. Shades, globes, and other glassware. 23,832; renewed Nov. 21, 1923.
Pietzuch Wonder Arch Guide Heel Company, The, Cincinnati, Ohio. Heels made of rubber or analogous material. 176,644; Nov. 27; Serial No. 143,996; published Sept. 18, 1923.
Pillsbury Flour Mills Company, Minneapolis, Minn. Flour made from wheat. 176,729; Nov. 27; Serial No. 173,377; published Aug. 7, 1923.
Plant, Thomas G., Company, Boston, Mass. Hosiery. 176,660; Nov. 27; Serial No. 181,958; published Sept. 18, 1923.
Platt, E. F., doing business as Northwest Nitrox Company, Portland, Me. Nitrous oxide and medicinal oxygen. 176,414; Nov. 27; Serial No. 178,770; published Aug. 28, 1923.
Polar Food Products Corp., Boston, Mass. Edible chocolate-lined shell adapted to contain ices. 176,423; Nov. 27; Serial No. 181,539; published Sept. 11, 1923.
Price, Anna M., New York, N. Y. Sanitary covers for toilet seats. 176,474; Nov. 27; Serial No. 181,088; published Sept. 18, 1923.
Prym, William, Company, Limited, The, Stolberg, Germany. Common pins and hand sewing needles. 176,747; Nov. 27; Serial No. 175,996; published Sept. 11, 1923.
Psychology Publishing Company. (See Miller, Harry K.)
Pure Oil Company, Columbus, Ohio, and Minneapolis, Minn. Axle grease. 176,780; Nov. 27.
Pure Oil Company, Columbus, Ohio, and Minneapolis, Minn. Farm-machinery lubricating oil. 176,785; Nov. 27.
Purer-Lene Mfg. Co. (See Cater, Dr. James S.)
Puritas Farms, Inc., Newburgh, N. Y. Dairy products. 176,643; Nov. 27; Serial No. 151,098; published Aug. 21, 1923.
Quaker Oats Company, The, Chicago, Ill. Poultry feed. 176,488; Nov. 27; Serial No. 174,922; published Aug. 21, 1923.

Quaker Oats Company, The, Chicago, Ill. Wheat flour. 176,614; Nov. 27; Serial No. 174,914; published Aug. 7, 1923.

Quaker Oats Company, The, Chicago, Ill. Stock feeds. 176,736; Nov. 27; Serial No. 173,982; published July 24, 1923.

Quaker Oats Company, The, Chicago, Ill. Wheat flour and stock feeds. 176,737; Nov. 27; Serial No. 174,102; published July 31, 1923.

Queen City Printing Ink Company, The, Cincinnati, Ohio. Printing ink. 24,402; renewed Mar. 20, 1924.

Radio Engineering Company of New York, Inc. Gloucester, Mass. Lubrication meters. 176,628; Nov. 27; Serial No. 162,695; published Sept. 11, 1923.

Reading Underwear Co., Reading, Pa. Ladies' and girls' knit underwear. 176,607; Nov. 27; Serial No. 179,554; published Sept. 18, 1923.

Reed Oil Company, Rogers, Ark. Lubricating oils and greases. 176,462; Nov. 27; Serial No. 176,365; published Sept. 18, 1923.

Reed Roller Bit Co., Houston, Tex. Rotary drill bits, reamers, fishing tools for wells. 176,622; Nov. 27; Serial No. 159,055; published Sept. 18, 1923.

Regulation Paint Co., Louisville, Ky. Ready-mixed paints. 176,546; Nov. 27; Serial No. 183,597; published Sept. 18, 1923.

Regulation Paint Co. Paints. 176,548; Nov. 27; Serial No. 183,596; published Sept. 18, 1923.

Republican Women of Pennsylvania, Incorporated, Philadelphia, Pa. Periodical published at monthly intervals. 176,527; Nov. 27; Serial No. 182,610; published Sept. 18, 1923.

Richmond Hosiery Mills, Rossville, Ga. Hosiery. 176,460; Nov. 27; Serial No. 176,571; published Sept. 18, 1923.

Riebe Ball Bearing Company Inc, New York, N. Y. Ball bearings. 176,815; Nov. 27.

Ringler, Geo., & Co., New York, N. Y. Malt beverage. 176,812; Nov. 27.

Robinson, Maurice, Baltimore, Md. Coats, vests, pants, overcoats. 176,811; Nov. 27.

Romeo, F., & Co., Inc., New York, N. Y. Olive oil. 176,690; Nov. 27; Serial No. 167,364; published Aug. 21, 1923.

Roscoe Haegelin Co., Santa Rosa, Calif. Cider and grape juice. 176,647; Nov. 27; Serial No. 152,277; published Oct. 18, 1921.

Rose Company, The, Philadelphia, Pa. Writing paper and envelopes. 176,432; Nov. 27; Serial No. 183,232; published Sept. 11, 1923.

Rosso, Charles J., Duluth, Minn. Candy. 176,717; Nov. 27; Serial No. 183,317; published Sept. 18, 1923.

Russell, Berry J., doing business as Kold'nKlear Spring Water Co., Cleveland, Ohio. Spring drinking water. 176,788; Nov. 27.

Ruxton, Philip, Incorporated, New York, N. Y., Chicago, Ill.; Boston, Mass.; St. Paul, Minn.; and St. Louis, Mo. Liquid water colors and artist oil colors. 176,398; Nov. 27; Serial No. 182,616; published Sept. 11, 1923.

Ryde & Company, Chicago, Ill. Chicken feed. 176,620; Nov. 27; Serial No. 174,489; published July 24, 1923.

Ryde & Company, Chicago, Ill. Stock feed. 176,619; Nov. 27; Serial No. 174,490; published July 24, 1923.

Safety Holder Co., The. (See Laird, Edwin C.)

Sager, S. J., Company, Inc., The, Syracuse, N. Y. Knitted garments. 176,642; Nov. 27; Serial No. 156,934; published Sept. 18, 1923.

Sahrbeck, Peter W., New York, N. Y. Eggs. 176,456; Nov. 27; Serial No. 176,694; published Sept. 4, 1923.

Saklad, William, Boston, Mass. Foot-massaging devices. 176,552; Nov. 27; Serial No. 183,124; published Sept. 18, 1923.

Sampson, Paul O., doing business as Life O Wheat Milling & Baking Co., Portland, Oreg. Bread. 176,572; Nov. 27; Serial No. 178,289; published Aug. 21, 1923.

Samson Cordage Works, Boston, Mass. Braided cotton window or sash cord. 24,411; renewed Mar. 27, 1924.

Sandvikens Jernverks Aktiebolag, Sandviken, Sweden. Springs and steel tubing. 176,599; Nov. 27; Serial No. 178,871; published Sept. 18, 1923.

Savoi Co., The. (See Freeman, Ralph D.)

Scala, Maria B.: D. D. and B. Branca and C. D. Bolduc-Branca, successors, Milan, Italy. Anticholera and tonic remedy. 23,877; renewed Nov. 28, 1923.

Schaefer, Max O., doing business as Velveeta Cheese Company, assignor to Velveeta Cheese Company, Inc., Monroe, N. Y. Cheese. 176,615; Nov. 27; Serial No. 174,866; published July 24, 1923.

Schaffner Brothers Company, Erie, Pa. Lard. 176,680; Nov. 27; Serial No. 169,930; published Sept. 18, 1923.

Scheel, William H., New York, N. Y. Lacquer compositions. 176,493; Nov. 27; Serial No. 181,961; published Sept. 4, 1923.

Schooley, Eugene R., doing business as Henry N. Schooley and Son, Luzerne, Pa. Food for chickens. 176,519; Nov. 27; Serial No. 166,573; published July 31, 1923.

Schutter-Johnson Candy Co., Chicago, Ill. Candy. 176,440–2; Nov. 27; Serial Nos. 180,555–7; published Sept. 11, 1923.

Sedalia Manufacturing Company, Sedalia, Mo. Welding flux. 176,382; Nov. 27; Serial No. 177,523; published Aug. 21, 1923.

See The Point Waistband Company, Inc., New York, N. Y. Waistbands. 176,624; Nov. 27; Serial No. 161,651; published Sept. 18, 1923.

Select Packing Co., Easton, Pa. Dried fruit and salted-nut mixture. 176,609; Nov. 27; Serial No. 179,487; published Sept. 11, 1923.

Sexauer, Frederick E., doing business as Frederick E. Sexauer and Company, Brooklyn, N. Y. Fancy leather goods. 176,391; Nov. 27; Serial No. 172,254; published Sept. 11, 1923.

Shannon, J. A., & Son, Iowa Falls, Iowa. Dressed poultry and eggs. 176,508; Nov. 27; Serial No. 164,562; published Aug. 7, 1923.

Shannon, John C., London, England. Men's, youths', boys', and ladies' clothing. 176,588; Nov. 27; Serial No. 180,398; published Sept. 18, 1923.

Shansby, Joseph B., Seattle, Wash. Caps, sweaters, leggings, scarfs, bathing suits, hose, gloves. 176,571; Nov. 27; Serial No. 178,534; published Sept. 18, 1923.

Shapleigh Hardware Company, St. Louis, Mo. Fishing lines, rods, and reels. 176,820; Nov. 27.

Sherman & Lebair, Incorporated, New York, N. Y. Hosiery, boots, shoes, overalls, and rompers. 176,496; Nov. 27; Serial No. 174,492; published Sept. 18, 1923.

Silver Lane Pickle Company, The, East Hartford, Conn. Chowchow pickle, mixed pickles, sour onions, gherkins, etc. 176,606; Nov. 27; Serial No. 179,562; published Sept. 11, 1923.

Silvadent Co., The. (See Garrison, Harry B.)

Simon, Franklin, & Co., Inc., New York, N. Y. Collars and cuffs. 176,500; Nov. 27; Serial No. 173,338; published Sept. 11, 1923.

Sims Milling Company, Frankfort, Ind. Cereal made from wheat. 176,592; Nov. 27; Serial No. 179,229; published Sept. 18, 1923.

Sinclair Refining Company. (See Hisgen Bros., assignor.)

Smidt, Edvard, Nybollegaard, Denmark. Export cream, condensed milk, and cheese. 176,683; Nov. 27; Serial No. 169,458; published Aug. 7, 1923.

Smith & Egge Mfg. Co., The, Bridgeport, Conn. Nonferrous metals and their alloys. 176,467; Nov. 27; Serial No. 181,704; published Sept. 11, 1923.

Smith-Beal Fire Brick Co., Minneapolis, Minn. High-temperature cements. 176,721; Nov. 27; Serial No. 170,904; published Apr. 24, 1923.

Snyder's, Mrs., Whipped Cream Chocolates, Inc., Chicago, Ill. Candy. 176,810; Nov. 27.

Southwestern Milling Company, Inc., The, New York, N. Y. Wheat flour. 176,617; Nov. 27; Serial No. 174,597; published July 31, 1923.

Spangenberg & Co., Chicago, Ill. Eggs. 176,685; Nov. 27; Serial No. 168,494; published July 31, 1923.

Spaulding-Moss Company, Boston, Mass. Drawing instruments and accessories, surveyors' instruments. 176,465; Nov. 27; Serial No. 175,890; published Sept. 18, 1923.

Sprague Roller Mills, Sprague, Wash. Self-rising flour. 176,719; Nov. 27; Serial No. 170,734; published July 24, 1923.

Standard Candy Company, Nashville, Tenn. Candy. 176,608; Nov. 27; Serial No. 179,492; published Sept. 11, 1923.

Standard Knitting Mills, The, Los Angeles, Calif. Knitted sweaters, bathing suits, scarfs, caps, etc. 176,468; Nov. 27; Serial No. 181,424; published Sept. 18, 1923.

Standard Oil Company (New Jersey), Bayonne, N. J. Oils and greases. 176,408; Nov. 27; Serial No. 181,659; published Sept. 11, 1923.

State Line Milling Co., Kiowa, Kans. Wheat flour. 176,590; Nov. 27; Serial No. 179,170; published Sept. 11, 1923.

Stein, A., & Company, Chicago, Ill. Sanitary aprons and belts. 176,556; Nov. 27; Serial No. 183,002; published Sept. 18, 1923.

Sterling Company, The, Chicago, Ill. Women's aprons and house dresses. 176,555; Nov. 27; Serial No. 180,948; published Aug. 28, 1923.

Strasenburgh, R. J., Company, Rochester, N. Y. Saline cathartic. 176,411; Nov. 27; Serial No. 178,641; published July 31, 1923.

Strauss, Ferdinand Corporation, The, New York, N. Y. Mechanical toys. 176,800; Nov. 27.

Stuart Packing Corporation, Seattle Wash. Canned salmon. 176,528; Nov. 27; Serial No. 182,622; published Sept. 11, 1923.

Sultan Drug Company, St. Louis, Mo. Remedies for diseases of the stomach and bowels. 24,320; renewed Mar. 6, 1924.

Sunkist Lemon Pie Company, Chicago, Ill. Lemon-meringue pies. 176,568; Nov. 27; Serial No. 178,576; published Sept. 18, 1923.

Sylmar Packing Corporation, Los Angeles, Calif. Pickled pimientos. 176,541; Nov. 27; Serial No. 182,449; published Sept. 11, 1923.

Tasty Baking Company, Philadelphia, Pa. Cake. 176,645; Nov. 27; Serial No. 157,084; published July 24, 1923.

Taylor & Sledd, Inc., Richmond, Va. Canned fish. 176,447; Nov. 27; Serial No. 176,927; published Sept. 11, 1923.

Taylor & Sledd, Inc., Richmond, Va. Canned fish, vegetables, and fruits, jams, etc. 176,452; Nov. 27; Serial No. 176,926; published Sept. 11, 1923.

Taylor Instrument Companies, Rochester, N. Y. Thermometers. 176,632; Nov. 27; Serial No. 163,836; published Sept. 25, 1923.

Taylor Instrument Companies, Rochester, N. Y. Hygrometers. 176,633; Nov. 27; Serial No. 163,834; published Sept. 25, 1923.

Taylor Instrument Companies, Rochester, N. Y. Thermostatic temperature-regulating apparatus. 176,634; Nov. 27; Serial No. 163,837; published Sept. 25, 1923.

Taylor Instrument Companies, Rochester, N. Y. Thermostatic temperature-regulating apparatus. 176,636–7; Nov. 27; Serial Nos. 163,838–9; published Sept. 25, 1923.

Taylor Produce Co., Kalamazoo and Battle Creek, Mich. Butter, eggs, and cheese. 176,648; Nov. 27; Serial No. 150,413; published Aug. 7, 1923.

Thatcher, H. D., & Co., assignor to Thatcher Products Co. Inc., Potsdam, N. Y. Baking powders. 24,338; renewed Mar. 13, 1924.

Thompson, John R., Co., Chicago, Ill. Canned goods. 176,487; Nov. 27; Serial No. 175,030; published Aug. 21, 1923.

Thompson Milling Company, Lockport, N. Y. Wheat flour. 24,553; renewed Apr. 17, 1924.

Toops, Noble C., doing business as Toops Bros., Chicago, Ill. Scissors. 176,625; Nov. 27; Serial No. 162,218; published Sept. 18, 1923.

Trenton Milling Co., Trenton, Ill. Wheat flour. 176,505; Nov. 27; Serial No. 162,148; published July 31, 1923.

Tribune Company, The, Chicago, Ill. Weekly magazine supplement. 176,515; Nov. 27; Serial No. 166,412; published Sept. 11, 1923.

Tryon Mills of Vermont, Bennington, Vt. Undershirts, underdrawers, and union suits. 176,583; Nov. 27; Serial No. 177,930; published Aug. 14, 1923.

Turner & Seymour Manufacturing Co., The, Torrington, Conn. Furniture slides. 176,654; Nov. 27; Serial No. 181,922; published Sept. 18, 1923.

Twadell, John P., assignor to John Wanamaker, Philadelphia, Philadelphia, Pa. Shoes for men and boys. 24,264; renewed Feb. 20, 1924.

Twoby-Smith Company, Superior, Wis. Dried fruit, canned vegetables, peanut butter, etc. 176,457; Nov. 27; Serial No. 176,810; published Sept. 4, 1923.

Uhlko Milling Company, The, Cincinnati, Ohio. Stock feed. 176,640; Nov. 27; Serial No. 165,900; published Aug. 21, 1923.

Union Bakery, Marion, Ohio. Bread. 176,566; Nov. 27; Serial No. 179,691; published Sept. 18, 1923.

Union Paper & Twine Co., The, Cleveland, Ohio. Wrapping paper. 176,563; Nov. 27; Serial No. 180,567; published Aug. 7, 1923.

United Fruit Company, Boston, Mass. Dairy products. 176,627; Nov. 27; Serial No. 163,242; published Aug. 21, 1923.

United Fruit Company, Boston, Mass. Dairy products. 176,631; Nov. 27; Serial No. 163,245; published Aug. 21, 1923.

Urban, George Milling Company, Buffalo, N. Y. Poultry feeds. 176,450; Nov. 27; Serial No. 177,336; published Aug. 21, 1923.

Utah-Idaho Sugar Company, Salt Lake City, Utah. Sugar. 176,797; Nov. 27.

Velveeta Cheese Company. (See Schaefer, Max O.)

Vignes-Bombet Grocer Co., Inc., Baton Rouge, La. Wheat flour. 176,601; Nov. 27; Serial No. 178,645; published Sept. 18, 1923.

Vilas, Royal C., Fowl River, Ala. Citrous fruits and nuts. 176,757; Nov. 27; Serial No. 175,227; published July 31, 1923.

Visco Chemical Products Company, The, Cleveland, Ohio. Polish for furniture, pianos, autos, etc. 176,416; Nov. 27; Serial No. 180,568; published Sept. 11, 1923.

Vitality Publishing Company. (See Whitehouse, George F.)

Vogel, Morton J., New York, N. Y. Ladies' and children's hand bags, purses, and pocketbooks. 176,384; Nov. 27; Serial No. 177,153; published Sept. 11, 1923.

Walker, Cyrus M., Kansas City, Mo. Men's textile-fabric union-suit underwear. 176,761; Nov. 27; Serial No. 175,446; published Sept. 11, 1923.

Walker, Edward C., 3d, Batavia, N. Y. Garbage cans. 176,814; Nov. 27.

Wallach Bros., New York, N. Y. Shirts, collars, underwear, shoes, etc. 176,493; Nov. 27; Serial No. 169,569; published Sept. 18, 1923.

Walrath & Co., Syracuse, N. Y., successor to S. M. Walrath. Teas and coffee. 23,694; renewed Oct. 10, 1924.

Wanamaker, Firm of John, assignor to John Wanamaker Philadelphia, Philadelphia, Pa. Sewing machines and attachments. 23,926; renewed Dec. 12, 1923.

Wanamaker, John, Philadelphia. (See Twaddell, John P., assignor.)

Ward Baking Company, New York, N. Y. Bread. 176,492; Nov. 27; Serial No. 170,512; published Aug. 21, 1923.

Waring, Lewis E., et al., executors. (See Estate of Charles J. Fisk.)

Warner, Moore & Co., doing business as Dunlop Mills, Richmond, Va. Feed—namely, bran. 176,752; Nov. 27; Serial No. 175,582; published Aug. 7, 1923.

Warren Soap Manufacturing Company, Boston, Mass. Washing or cleansing powder. 176,520; Nov. 27; Serial No. 166,967; published Sept. 11, 1923.

Washburn-Crosby Company, Minneapolis, Minn. Wheat flour. 176,581; Nov. 27; Serial No. 177,754; published Aug. 21, 1923.

Webb, Thomas J., Company, Chicago, Ill. Coffee. 176,612; Nov. 27; Serial No. 179,075; published Sept. 11, 1923.

Webb, Thomas J., Company, Chicago, Ill. Spices. 176,796; Nov. 27.

Weber, David, & Co., Philadelphia, Pa. Corrugated boxes, envelopes, etc. 176,445; Nov. 27; Serial No. 180,511; published Sept. 18, 1923.

Weldfast System, Inc., Salem, Mass. Cartons and boards. 176,670; Nov. 27; Serial No. 182,324; published Sept. 18, 1923.

Wells-Abbott-Nieman Co., Inc., Schuyler, Nebr. Hard-wheat flour. 176,734; Nov. 27; Serial No. 173,946; published July 24, 1923.

Werk, M., Company, The, Cincinnati, Ohio. Soap powder. 23,394–5; renewed July 25, 1923.

West Coast Kalsomine Company, Berkeley, Calif. Calcimine. 176,480; Nov. 27; Serial No. 180,729; published Sept. 18, 1923.

West India Oil Company, Bayonne, N. J. Oils, greases, candles. 176,547; Nov. 27; Serial No. 183,681; published Sept. 18, 1923.

Western Electric Company, Incorporated, New York, N. Y. Creosote wood preservatives. 176,433; Nov. 27; Serial No. 183,240; published Sept. 11, 1923.

Western Grain Company, Birmingham, Ala. Corn meal and grits, horse, cow, and hen feeds, etc. 176,763; Nov. 27; Serial No. 175,117; published Aug. 21, 1923.

Western Grocer Company, Marshalltown, Iowa. Canned grapefruit, fruit salad, pimientos, tunny, etc. 176,742; Nov. 27; Serial No. 176,235; published Aug. 14, 1923.

Wheaco Cereal Corporation, Denver, Colo. Cereal breakfast foods, and wheat, pancake, and buckwheat flour. 176,691; Nov. 27; Serial No. 167,111; published July 31, 1923.

Whelan-Linck Co., Duluth, Minn. Desks, filing cabinets, davenports, chairs, etc. 176,774; Nov. 27.

Whitaker Paper Company, The, Baltimore, Md., and Cincinnati, Ohio. Wrapping paper. 176,393; Nov. 27; Serial No. 170,737; published Sept. 11, 1923.

White, R., & Sons, Limited. (See Barclay & Co., assignor.)

White, R., & Sons, Limited. (See Kops Brewery, assignor.)

White, Ray B., doing business as The R. B. White Co., Bigwells, Tex. Wooden hampers. 176,596; Nov. 27; Serial No. 178,686; published Sept. 18, 1923.

Whitehouse, George F., doing business as Vitality Publishing Company, Los Angeles, Calif. Monthly publication. 176,418; Nov. 27; Serial No. 180,997; published Sept. 11, 1923.

Whittemore Brothers Corporation, Cambridge, Mass. Dressing for cleaning and whitening white kid., etc., and all kinds of white leather and articles made therefrom. 176,772; Nov. 27.

Whittemore Brothers Corporation, Cambridge, Mass. Preparation for cleaning, etc., kid and calf leathers. 176,817; Nov. 27.

Wichert, Inc., Brooklyn, N. Y. Leather and canvas shoes and slippers. 176,822–3; Nov. 27.

Williams, Charles E., Akron, Ohio. Washboards. 176,787; Nov. 27.

Wilson, John M., doing business as Meridian Grain & Elevator Company, Meridian, Miss. Horse, mule, hog, dairy, ox, and scratch feeds. 176,600; Nov. 27; Serial No. 178,649; published Sept. 11, 1923.

Winchester Repeating Arms Co., New Haven, Conn. Soft-tone flat wall paint, colors in oil, zinc paste, etc. 176,385; Nov. 27; Serial No. 175,751; published Sept. 11, 1923.

Wood, John T., St. Louis, Mo. Metal polishes. 176,603; Nov. 27; Serial No. 179,981; published Sept. 11, 1923.

Wuertz, O. W., Co., New York, N. Y. Pianos, player pianos, and electrically-operated pianos. 176,776; Nov. 27.

Wynne Lard & Provision Co. Inc., Norfolk, Va. Lard substitute. 176,804; Nov. 27.

Wynne Lard & Provision Co. Inc., Norfolk, Va. Lard substitute. 176,807; Nov. 27.

Yellow Cab Manufacturing Co., Chicago, Ill. Automobile taxicabs. 176,765; Nov. 27.

Yellow Cab Manufacturing Co., Chicago, Ill. Monthly perodical. 176,425; Nov. 27; Serial No. 181,329; published Sept. 11, 1923.

Yurcich, Fred, Farrell, Pa. Reels upon which wire is wound. 176,626; Nov. 27; Serial No. 162,233; published Sept. 18, 1923.

Zimmerman, Franklyn M., Pittsburgh, Pa. Lubricating oils. 176,662; Nov. 27; Serial No. 182,031; published Sept. 18, 1923.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abraham & Straus, Inc., New York, N. Y. Hairpins. 186,403; Nov. 27.

Adot, N. y Hno., Buenos Aires, Argentina. Hempen pumps (alpargatas). 182,952; Nov. 27.

Alpine Chocolates Company, Boston, Mass. Candy. 146,194; Nov. 27.

American Knit Products Company. (See Marshall, Ethel L., assignor.)

American Wholesale Corporation (Baltimore Bargain House), Baltimore, Md. Needles, crochet hooks, and thimbles. 180,262; Nov. 27.

Anchor Serum Company, South St. Joseph, Minn. Anti-hog-cholera serum. 184,053; Nov. 27.

Ansonia O & C Co., The, Ansonia, Conn. Elastic webbing. 184,054; Nov. 27.

Apter Co., Inc., The, New York, N. Y. Hosiery. 184,577; Nov. 27.

Ashaway Line & Twine Manufacturing Company, Ashaway, R. I. Fishing line. 182,494; Nov. 27.

Askin & Marine Company, New York, N. Y. Men's and ladies' wearing apparel. 148,860–2; Nov. 27.

Associated Oil Company, San Francisco, Calif. Kerosene. 184,015; Nov. 27.

Automobile Proprietary, Limited, The, Westminster and London, England. Squash balls. 186,686; Nov. 27.

B. and T. Varnish Company, Cincinnati, Ohio. Uncolored varnish for linoleum, and congoleum rugs, etc. 184,113; Nov. 27.

Ball, C. S. Candy Co., The, Dayton, Ohio. Candies. 185,556; Nov. 27.

Barnards, Schaller, Iowa. Pop-corn confection. 175,121; Nov. 27.

Barnsdall Refining Company, Tulsa, Okla. Fuel oils, motor lubricating oils, and lubricants. 158,560; Nov. 27.

Benn Chemical Co. (See Oakley, Richard A.)

Berdan Company, The, Toledo, Ohio. Coffee and tea. 167,863; Nov. 27.

Birchfiel, Carl R., doing business as Easy-Go-Lax Relief Co., Maryville, Tenn. Cold tablets. 167,377; Nov. 27.

Blackburn Products Company, The, Dayton, Ohio. Medicine for rheumatism. 181,473; Nov. 27.

Blechman, S., & Son Inc., New York, N. Y. Combs, barrettes, hairpins, pins, etc. 184,160; Nov. 27.

Boll Weevil Destroyer Co., College Park, Ga. Insecticides. 184,322; Nov. 27.

Bonwit Teller & Co., New York, N. Y. Corsets. 185,172; Nov. 27.

Bridge-Sullivan Manufacturing Company, Seattle, Wash. Stains, varnishes, fillers, and paints. 183,249; Nov. 27.

Brown, Thos. E., & Sons. (See Brown, Thomas H.)

Brown, Thomas H., doing business as Thos. E. Brown & Sons, Philadelphia, Pa. Hosiery. 175,978; Nov. 27.

Brune, Herman, New York, N. Y. Candies. 178,163; Nov. 27.

Bunkie Ice Company, Ltd., The, Bunkie, La. Ice cream. 185,105; Nov. 27.

Burgess, Roy J., doing business as E-Z Fluff Mfg. Co., New York, N. Y. Meringue and icing powder. 162,536; Nov. 27.

Button, George W., Corporation, New York, N. Y. Perfumes, toilet waters, face powders, etc. 184,434; Nov. 27.

California Laboratories, Inc., Los Angeles, Calif. Nonalcoholic, maltless beverages, root-beer, root-beer extracts, and sirups for making soft drinks. 184,587; Nov. 27.

Caporale, Pasquale A., doing business as Leoncavallo Sauce Company, Philadelphia, Pa. Spaghetti, spaghetti sauce, and cheese. 181,936–8; Nov. 27.

Carley, Rice Company, Milwaukee, Wis. Underwear for men. 176,600; Nov. 27.

Central Ohio Oil Company, The, Columbus, Ohio. Gasoline. 174,126; Nov. 27.

Central Wholesale Grocers, Inc., Chicago, Ill. Canned vegetables. 170,359; Nov. 27.

Chandlee, H. P. Sons Co., Baltimore, Md. Ash, garbage, and oil cans; trash burners, ash sifters, etc. 185,106; Nov. 27.

Chapman, Cora E., San Bernardino, Calif. Nonalcoholic, maltless beverage and sirup for making same. 181,434; Nov. 27.

Cherry Tip Co., The. (See Lyons Bros. Co., The.)

Chesterfield Tire and Rubber Co. (not incorporated), The. (See Grinberg, Abraham.)

Christman, Louis F., doing business as L. F. Christman Co., Jackson, Tenn. Preparation for polishing and dyeing shoes and leather articles. 184,382; Nov. 27.

Church, C. F., Manufacturing Co., Holyoke, Mass. Bathroom fixtures. 181,111; Nov. 27.

Clark, Harold D., doing business as Clark Laboratories, San Diego, Calif. Antiseptic and healing preparation. 83,962; Nov. 27.

Clark, W. L. M. Incorporated, St. Louis, Mo. Braid elastic goods. 185,107; Nov. 27.

Coast Fishing Company, Wilmington, Calif. Canned sardines. 185,919; Nov. 27.

Coast Specialty Sales Company, Oakland, Calif. Scuff and step plates for vehicles. 180,689; Nov. 27.

Cohn & Rosenberger Inc., New York, N. Y. Jewelry for personal wear. 182,652; Nov. 27.

Colburn, Philmore H., West Springfield, Mass. Liniment and preparation for increasing growth of the hair. 184,161; Nov. 27.

Columbia School Supply Co., Indianapolis, Ind. Chairs, benches, stools, desks, and bookcases. 184,714; Nov. 27.

Comstock, Dorothy D., Boston, Mass. Collapsible baby crib. 183,909; Nov. 27.

Confection Products Inc., Jersey City, N. J. Chocolate-covered candy bar. 185,818; Nov. 27.

Crowley, Charles H., New York, N. Y. Safety pins. 185,074; Nov. 27.

Crowley, Charles H., New York, N. Y. Snap fasteners. 185,075; Nov. 27.

De Brûle, Anna, doing business as A. De Brûle, New York, N. Y. Hair tonic. 183,961; Nov. 27.

Delico Products Company, Sheridan, Wyo. Frozen confections, etc. 163,673; Nov. 27.

De Long Hook and Eye Company, The, Philadelphia, Pa. Hooks and eyes, safety pins, and toilet pins. 186,114; Nov. 27.

Derrick Publishing Company, The, Oil City, Pa. Daily periodical. 183,435; Nov. 27.

Derrick Publishing Company, The, Oil City, Pa. Weekly periodical. 183,436; Nov. 27.

Dew-On Company. (See Wilson, George T.)

Diamond State Fibre Company, Elsmere, Del., and Bridgeport, Pa. Laminated phenolic condensation product. 183,439; Nov. 27.

Diamond State Fibre Company, Elsmere, Del., and Bridgeport, Pa. Laminated phenolic condensation product. 183,442; Nov. 27.

Dixie Maid Hat Company, West Carrollton, Ohio. Hats. 183,560; Nov. 27.

Domore Chair Company. (See Ferris, William S.)

Dorgan, Wm. J., doing business as W. J. Dorgan Co., Riverside, Calif. Canned fruits and vegetables. 186,271; Nov. 27.

Dunlap & Co., New York, N. Y. Straw and felt hats. 184,786; Nov. 27.

E-Z Fluff Mfg. Co. (See Burgess, Roy J.)

Eastern Foundry Company, The, Boyertown, Pa. Cast-iron pipes, cast-iron bends, etc. 178,557; Nov. 27.

Easy-Go-Lax Relief Co. (See Birchfiel, Carl R.)

Electric Boat Company, Bayonne, N. J. Boats. 182,706; Nov. 27.

Emack, John D., Company, The, Philadelphia, Pa. Roofing slate. 179,034; Nov. 27.

Endazoin Company, New York, N. Y. Salves and ointments for the skin. 184,026; Nov. 27.

Esco Manufacturing Co., New York, N. Y. Specially-treated strings used for stringing thereon ornamental beads. 183,101; Nov. 27.

Fairbanks, E. and T., and Company, St. Johnsbury, Vt. Weighing apparatus and parts thereof. 186,118; Nov. 27.

Farley, Ernst W., doing business as Richmond Engineering Company, Richmond, Va. Septic, gasoline, and gasoline truck tanks, etc. 183,942; Nov. 27.

Ferris, William S., doing business as Domore Chair Company, Elkhart, Ind. Office, household, and factory chairs. 183,102; Nov. 27.

Fitler, Edwin H., Co., The, Philadelphia, Pa. Drilling cables, cable-laid drilling cables, sand lines, and cable-laid sand lines. 185,012; Nov. 27.

Fitzgibbons Boiler Company, Inc., New York, N. Y. Steam and hot-water boilers. 186,121; Nov. 27.

Franklin Ice Cream Company, Kansas City, Mo. Ice cream. 183,649; Nov. 27.

Frasse, Peter A., & Co., Inc., New York, N. Y. Tool steel. 186,360; Nov. 27.

Gattaz, Joseph B., doing business as Gattaz & Co., Chicago, Ill. Compound for treating eyelashes and eyelids. 184,130; Nov. 27.

General Chemical Company, New York, N. Y. Insecticides and fungicides. 183,967; Nov. 27.

General Gas Mantle Co., Camden, N. J. Heating apparatus. 185,354; Nov. 27.

Geraldine Hat Co., New York, N. Y. Women's, misses', and children's hats. 170,482; Nov. 27.

Gill Brothers Company, Steubenville, Ohio. Lamp wick. 184,665; Nov. 27.

Globe Import Company. (See Richter, Julius.)

Goldsmith, P., Sons Company, The, Cincinnati, Ohio. Baseball, basket-ball, etc., shoes. 184,284; Nov. 27.

Goldwasser, Benjamin, New York, N. Y. Ladies' wearing apparel. 178,501; Nov. 27.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Hose composed of fabric and rubber. 111,518; Nov. 27.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Vehicle tires and tubes composed wholly or in part of rubber. 174,242; Nov. 27.

Grasselli Chemical Company, The, Cleveland, Ohio. Dyes and dyestuffs. 154,506; Nov. 27.

Grellich, William, & Sons, Inc., Brooklyn, N. C. Infants' suits. 178,098; Nov. 27.

Grinberg, Abraham, doing business as The Chesterfield Tire and Rubber Co. (Not Incorporated), Chicago, Ill. Solid and pneumatic rubber tires and tires composed of rubber fabrics. 179,468; Nov. 27.

Grosner, Milich Company, Inc., New York, N. Y. Men's shirts, collars, cravats, pyjamas, etc. 180,700; Nov. 27.

Guardian Gas Appliance Company, The, Cleveland, Ohio. Stoves, gas fire-place heaters, and incinerators. 184,852; Nov. 27.

Gummed Products Company, The, Troy, Ohio. Dress forms. 182,537; Nov. 27.

Hartray, J. P., Shoe Co., Chicago, Ill. Boots and shoes. 184,727; Nov. 27.

Hartwell Brothers, Memphis, Tenn. Axe, adze, pick, sledge, etc., tool handles. 182,908; Nov. 27.

Havard, Harold H., Berkeley, Calif. Playing cards. 186,706; Nov. 27.

Heller, B., & Company, Chicago, Ill. Insecticide preparation. 184,131; Nov. 27.

Hershey Chocolate Company, Hershey, Pa. Chocolates. 186,185; Nov. 27.

Hodgman Rubber Company, Yonkers, N. Y. Waterproof covers for hats and caps. 171,916; Nov. 27.

Hot Point Oil & Supply Company, Harrisburg, Pa. Lubricating oils and greases. 184,854; Nov. 27.

Howell, William J., Allentown, Pa. Chemical preparations used for deodorizing and disinfecting. 185,252; Nov. 27.

Humbird Canning Co., Humbird, Wis. Canned berries and vegetables. 179,535; Nov. 27.

Ide, George P., & Company, Inc., Troy, N. Y. Outer dress shirts. 166,832; Nov. 27.

International Postal Supply Company of New York, The, New York and Brooklyn, N. Y. Check-indorsing machine. 184,856; Nov. 27.

International Postal Supply Company of New York, The, New York and Brooklyn, N. Y. Check-indorsing machine. 184,858; Nov. 27.

International Shoe Company, St. Louis, Mo. Men's shoes. 183,297; Nov. 27.

International Shoe Company, St. Louis, Mo. Women's shoes of leather. 184,970; Nov. 27.

International Shoe Company, doing business as Morse & Rogers, St. Louis, Mo., and New York, N. Y. Leather boots and shoes. 183,707; Nov. 27.

Jack's Products Company. (See Platt, John F.)

Jaeckel, A., & Co., New York, N. Y. Manufactured furs. 182,097; Nov. 27.

Johnston, R. F., Paint Company, The, Cincinnati, Ohio. Ready-mixed paints. 186,553; Nov. 27.

Jones, John P., doing business as Pep-So Beverage Company, Fort Morgan, Colo. Maltless, nonalcoholic beverage sirup. 184,340; Nov. 27.

Kassman & Kessner Inc., New York, N. Y. Men's hats and caps. 184,943; Nov. 27.

Katz & Ogush, Inc., New York, N. Y. Finger rings. 181,126; Nov. 27.

Kaufmann Department Stores, Inc., Pittsburgh, Pa. Golf balls. 186,429; Nov. 27.

Kaustine Company, Inc., Buffalo, N. Y. Tanks for chemical toilets, septic tanks, etc. 177,086; Nov. 27.

Kellogg, R. M., Co., Three Rivers, Mich. Strawberry plants. 179,870–1; Nov. 27.

Kentucky Rock Asphalt Company, Louisville, Ky. Asphalt. 183,387; Nov. 27.

King, H. P., Company, The, Bristol, Tenn. Men's and boys' ties, dress and negligee shirts, suits, etc. 184,615; Nov. 27.

Krementz & Company, Newark, N. J. Collar buttons of solid gold and of rolled gold plate. 181,194; Nov. 27.

Kremer Metal Products Co., Chicago, Ill. Sheet-metal gasoline stoves. 183,303; Nov. 27.

Lamb, Thomas B., New York, N. Y. Talcum powder. 176,483; Nov. 27.

Lanton Auto Equipment Company, Incorporated, New York, N. Y. Automobile luggage carriers. 185,972; Nov. 27.

Lawlor-McCormick Co., New Brunswick, N. J. Moth and insect preventive. 181,899; Nov. 27.

Le Baur Importing Co. (See Samson, Arthur M.)

Leech, L. Gordon, Washington, D. C. Nonalcoholic, maltless beverage. 186,512; Nov. 27.

Lehigh Silk Hosiery Mills, Inc., New York, N. Y. Hosiery. 164,927; Nov. 27.

Leo, Albert, doing business as Leo Pectin Company, St. Joseph, Mo. Pectin. 183,073; Nov. 27.

Leoncavallo Sauce Company. (See Caporale, Pasquale A.)

Leslie-Judge Company, New York, N. Y. Periodicals. 183,982; Nov. 27.

Level Club, Inc., New York, N. Y. Pamphlets. 183,657; Nov. 27.

Levene, Ben, Inc., New York, N. Y. Hosiery. 184,865; Nov. 27.

Limper, Limperis J., New York, N. Y. Cigarettes. 185,787; Nov. 27.

Lindt, A. & W., Berne, Switzerland. Cocoas, chocolates. 178,394–8; Nov. 27.

Loris Undergarment Co. Inc., New York, N. Y. Underwear. 168,322; Nov. 27.

Lournay, Inc., Milwaukee, Wis. Talcum powder, face powder, etc. 181,448; Nov. 27.

Lowengart & Company, Portland, Oreg. Ladies' hats. 184,208; Nov. 27.

Lucido Brothers Grocery Company, Granite City, Ill. Canned fruits and vegetables. 182,159; Nov. 27.

Lyons Bros. Co., The, doing business as The Cheery Tip Co., Dallas, Tex. Nonintoxicating, nonalcoholic, maltless fruit beverage. 172,751; Nov. 27.

McCall, A. E., doing business as McCall Cigar Company, Kansas City, Mo. Cigars. 187,012; Nov. 27.

Maillard, Martin, Springfield, Mass. Vermin exterminators. 184,033; Nov. 27.

Marine Oil Company, Ltd., New Orleans, La. Machine oil. 166,388; Nov. 27.

Maronik, Dannel, Detroit, Mich. Banana jelly. 185,980; Nov. 27.

Maronik, Dannel, Detroit, Mich. Dried banana slices. 185,981; Nov. 27.

Marr, H. A., Grocery Co., The, Denver, Colo. Canned vegetables and fruits, spices, breakfast cereals, flour, etc. 181,299; Nov. 27.

Marshall, Ethel L., Winston-Salem, N. C., assignor to American Knit Products Company, Wilmington, Del. Knit skirts, princess slips, etc. 157,385; Nov. 27.

Marshall Field & Company, Chicago, Ill. Suspenders, arm bands and men's belts. 165,942; Nov. 27.

Martinez, F. T., & Sons, Brownsville, Tex. Hatbands. 183,452; Nov. 27.

Meinhardt, Jacob A., doing business as J. A. Meinhardt Company, Chicago, Ill. Furniture and automobile cleaner, also enamel cleaner. 180,875; Nov. 27.

Mende, Paul, Inc., New York, N. Y. Wood preservative. 185,790; Nov. 27.

Michael, Conrad H., Brooklyn, Conn. Cigars. 185,832; Nov. 27.

Miller, H. H., Industries Company, The, Canton, Ohio. Bottle filling and capping machines, dairy machines, etc. 182,982; Nov. 27.

Miracle Dress Co., Inc., New York, N. Y. Dresses, gowns, costumes, waists, etc. 176,564; Nov. 27.

Morse, A. G., Co., Inc., doing business as Morse's. Candy. 185,834; Nov. 27.

Morse & Rogers. (See International Shoe Company.)

Morton Gum Co. Inc., Kansas City, Mo. Chewing gum. 185,932; Nov. 27.

Motive Lubricant Corporation, Detroit, Mich. Lubricating oils and greases. 183,039; Nov. 27.

Motor Car Painting & Trimming Co., Chicago, Ill. Liquids for cleaning and polishing automobile bodies, furniture, etc. 186,441; Nov. 27.

Mueller-Keller Candy Company, St. Joseph, Mo. Chocolate candy. 182,986; Nov. 27.

Muralo Company, Inc., The, New Brighton, N. Y. Calcimines in dry powders. 183,398; Nov. 27.

Myers, W. M., San Antonio, Tex. Automobile cleanser and polish. 185,306; Nov. 27.

National Chemical Products Co. Inc., Union, N. J. Nonalcoholic, maltless beverage, beverage sirup and concentrate. 179,215; Nov. 27.

National Compound Co., Inc., Boston, Mass. Black enamel and rubber paint. 179,313; Nov. 27.

Newton Tea & Spice Co., The, Cincinnati, Ohio. Peanut butter. 176,090; Nov. 27.

New York Transportation Co., New York, N. Y. Motor busses and parts thereof. 184,675; Nov. 27.

Niagara Lithograph Co., Buffalo and New York, N. Y. Lithographs. 168,484; Nov. 27.

Noell, James T., Alexandria, Va. Aspirin tablets. 184,473; Nov. 27.

North American Toy Co., Inc., New York, N. Y. Toy pianos. 180,616; Nov. 27.

Oakley, Richard A., doing business as Benn Chemical Co., Philadelphia, Pa. Cleaning and polishing preparation. 182,481; Nov. 27.

Oneida Community Limited, Oneida, N. Y. Display chests or cabinets for silverware, etc. 169,728; Nov. 27.

Palmers, Limited, Montreal, Quebec, Canada. Bleach, beauty, cold, and cleansing creams, face powders, etc. 184,292; Nov. 27.

Panther Rubber Manufacturing Company, Stoughton, Mass. Rubber soles and heels. 183,539; Nov. 27.

Parke, Davis & Company, Detroit, Mich. Alteratives. 184,180; Nov. 27.

Parke, Davis & Company, Detroit, Mich. Medicine for treatment of syphilis. 184,181; Nov. 27.

Parke, Davis & Company, Detroit, Mich. Antiseptics and germicides. 184,182; Nov. 27.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Men's and boys' ready-to-wear clothing. 182,483; Nov. 27.
Pep-So Beverage Company. (See Jones, John P.)
Petros, George J., Omaha, Nebr. Liquid for preserving curls and Marcel wave in the hair. 184,039; Nov. 27.
Philippe, Louis, New York, N. Y. Perfumes, toilet water, face powders, etc. 184,096; Nov. 27.
Phillips-Jones Corporation, New York, N. Y. Shirts, boys' blouses, and pyjamas. 183,121; Nov. 27.
Platt, John F., doing business as Jack's Products Company, Cape Girardeau, Mo. Penetrating lubricating oils. 155,069; Nov. 27.
Pincus & Tobias, Inc., Brooklyn, N. Y. Leather shoes. 184,917; Nov. 27.
Piver, L. T., Inc., Wilmington, Del., and New York, N. Y. Perfume extract, toilet water, lotions, etc. 184,183; Nov. 27.
Porcell, Salvatore, New York, N. Y. Aluminum paint. 158,193; Nov. 27.
Prudence-Bonds Corporation, New York and Brooklyn, N. Y. Vendible coupon bonds, coupons, certificate of stocks, etc. 177,924; Nov. 27.
Prudence-Bonds Corporation, New York, N. Y. Vendible coupon bonds, coupons, certificate of stocks, etc. 185,987–9; Nov. 27.
Ragsdale, Ira H., doing business as Mrs. Ragsdale, Incorporated, San Antonio, Tex. Mayonnaise salad dressing and Thousand Island salad dressing. 176,282; Nov. 27.
Rash, Warren P., Co., Inc., Middlesboro, Ky. Glycerin and rose water, sweet spirits of niter, and turpentine. 177,620; Nov. 27.
Ratner, Harry, doing business as Rogers & Co., Columbus, Ohio. Jewelry. 181,413; Nov. 27.
Raub, S., & Sons Fertilizer Company, Indianapolis, Ind. Tankage and fertilizer. 184,762; Nov. 27.
Ravizza, John, New Britain, Conn. Confections. 183,852; Nov. 27.
Reid, Murdock & Co., Chicago, Ill. Baking powder and cream of tartar. 184,422; Nov. 27.
Richmond Engineering Company. (See Farley, Ernst W.)
Richter, Julius, doing business as Globe Import Company, New York, N. Y. Manicure sets. 177,516; Nov. 27.
Robinson, Evelyn A., doing business as The Vestrap Co., Minneapolis, Minn. Cross straps for connecting the supporting straps of ladies' undergarments. 185,765; Nov. 27.
Rogers & Co. (See Ratner, Harry.)
Roseth Corporation, The, Brooklyn, N. Y. Mothproof bags. 185,265; Nov. 27.
Roth, Paul, doing business as P. Roth & Company, New York, N. Y. Pearls. 185,381; Nov. 27.
Royal Cocoa Co., Jersey City, N. J. Chocolate pudding, powdered cocoa, powdered chocolate and cocoa. 136,388; Nov. 27.
Russell, Isaiah D., doing business as I. D. Russell Company, Kansas City, Mo. Insecticide. 184,424; Nov. 27.
Sacks, Herman, Chicago, Ill. Women's underwear composed of textile fabrics, bloomers, bathing and athletic suits. 158,736; Nov. 27.
Samson, Arthur M., doing business as Le Baur Importing Co., New Orleans, La. Essence of perfume extracts, Poudre adherent (face powder), cleansing cream, etc. 180,342; Nov. 27.
Schmid, Julius, Inc., New York, N. Y. Combs. 186,674; Nov. 27.
Seirite Products Inc., New York, N. Y. Children's furniture. 162,319; Nov. 27.
Sheet Steel Products Co., Michigan City, Ind. Cabs for vehicles. 184,686; Nov. 27.
Sherman, Bernard E., doing business as Vital Food Company of California, assignor to Rose Wilke, Los Angeles, Calif. Laxative herbal compound. 184,106; Nov. 27.
Simon Milling Supply Co., San Francisco, Calif. Ladies' hats. 182,726; Nov. 27.
Simons Brick Company, Los Angeles, Calif. Brick. 184,426; Nov. 27.
Smith & Gregory, New York, N. Y. Golf-bag holders. 177,525; Nov. 27.
Sophie Mae Candy Corporation, doing business as Sophie Mae, Atlanta, Ga. Candies. 164,085; Nov. 27.
Spokane Wyoming Petroleum Company, Lander, Wyo. Gasoline, naphtha, benzene, kerosene, etc. 165,570; Nov. 27.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Candles. 186,203; Nov. 27.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Candles. 186,726; Nov. 27.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Candles. 186,936; Nov. 27.
Standard Oil Company (New Jersey), Bayonne, N. J., Insecticide. 181,872; Nov. 27.
Stewart-Warner Speedometer Corporation, Chicago, Ill. Automotive radiator caps. 163,188; Nov. 27.
Suchard, S. A., Serrieres, Switzerland. Chocolate. 184,569–70; Nov. 27.
Sunbury Wholesale Grocery Company, Sunbury, Pa. Coffee. 186,090; Nov. 27.
Swett, William R., Oceola Mills, Pa. Beverage sold as soft drink. 184,948; Nov. 27.
Treinies, Evelyn H., Portland, Oreg. Manual facial massaging or tapping device. 185,061; Nov. 27.
Triumph Hosiery Mills Inc., New York, N. Y. Hosiery. 185,543; Nov. 27.
U. S. Oil Company, Providence, R. I. Lubricating oils and greases. 175,114; Nov. 27.
United States Survey Company, Incorporated, Rochester, N. Y. Road maps and printed road guides. 170,800; Nov. 27.
Van Vleet-Mansfield Drug Co., Memphis, Tenn. Hairbrushes, nailbrushes, toothbrushes, etc. 186,729; Nov. 27.
Vestrap Co., The. (See Robinson, Evelyn A.)
Vital Food Company of California. (See Sherman, Bernard E.)
Wagemaker Company, Grand Rapids, Mich. Desks, household tables, store tables, etc. 183,867; Nov. 27.
Wall, Streeter & Doyle Co., North Adams, Mass. Shoes. 184,807; Nov. 27.
Wallace, R., & Sons Mfg. Co., The, Wallingford, Conn. Sterling-silver flatware and hollow ware. 185,350; Nov. 27.
Washington Chocolate Co., Seattle, Wash. Chocolate coating. 186,171; Nov. 27.
White Seal Potato Chip Co., Baltimore, Md. Potato chips and caramels. 186,452; Nov. 27.
Whitlock Cordage Co., Jersey City, N. J., and New York, N. Y. Vegetable-fiber rope. 182,370; Nov. 27.
Wilde, Louis J., Los Angeles, Calif. Gasoline. 183,784; Nov. 27.
Wilke, Rose. (See Sherman, Bernard E., assignor.)
Wilson, George T., doing business as Dew-On Company, Cleveland, Ohio. Preparations for germicidal, insecticidal, and deodorant purposes and for exterminating cockroaches, etc. 185,277; Nov. 27.
Wright & Parker Company, Detroit, Mich. Bread, butter, eggs, coffee, tea, etc. 184,778; Nov. 27.
Wynne Lard & Provision Co. Inc., Norfolk, Va. Lard substitute. 170,461; Nov. 27.
Yellow Cab Manufacturing Co., Chicago, Ill. Automobile taxicabs. 178,794; Nov. 27.
Yellow Cab Manufacturing Co., Chicago, Ill. Automobile taxicabs. 180,315; Nov. 27.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Leather, Oak-tanned harness. J. G. Hoffmann Sons Co. 24,045; renewed Jan. 16, 1924.
Seeds, Vegetable. Kehoe Preserving Company. 176,434; Nov. 27; Serial No. 176,521; published July 3, 1923.

CLASS 2.

Baskets. Edgerton Manufacturing Co. 176,428; Nov. 27; Serial No. 183,698; published Sept. 11, 1923.
Cans, Garbage. E. C. Walker, 3d. 176,814; Nov. 27.
Cartons and boards. Weldfast System, Inc. 176,670; Nov. 27; Serial No. 182,324; published Sept. 18, 1923.
Corrugated boxes, envelopes, etc. David Weber & Co. 176,445; Nov. 27; Serial No. 180,511; published Sept. 18, 1923.
Hampers, Wooden. R. B. White. 176,596; Nov. 27; Serial No. 178,686; published Sept. 18, 1923.
Reels upon which wire is wound. F. Yurcich. 176,626; Nov. 27; Serial No. 162,233; published Sept. 18, 1923.
Vulcanized-fiber containers. Fibre Specialty Mfg. Co. 176,562; Nov. 27; Serial No. 180,426; published Sept. 18, 1923.

CLASS 3.

Collars, harness, and harness parts, Horse. Bona Allen, Inc. 176,671; Nov. 27; Serial No. 182,327; published Sept. 18, 1923.
Hand bags, etc., Ladies' and children's. M. J. Vogel. 176,384; Nov. 27; Serial No. 177,153; published Sept. 11, 1923.
Leather goods, Fancy. F. E. Sexauer. 176,391; Nov. 27; Serial No. 117,254; published Sept. 11, 1923.

CLASS 4.

Cleaning and whitening leather, and articles made therefrom, Dressing for. Whittemore Brothers Corporation. 176,772; Nov. 27.
Cleaning and renewing leathers, Preparation for. Whittemore Brothers Corporation. 176,817; Nov. 27.
Polish and dye for shoes, etc., Liquid. Commercial Chemical Co. 176,805; Nov. 27.
Polishes, Metal. J. T. Wood. 176,603; Nov. 27; Serial No. 179,981; published Sept. 11, 1923.
Polish, shaving cream, soap, etc., Shoe. MacLean Drug Company. 176,753; Nov. 27; Serial No. 175,504; published Sept. 11, 1923.
Soap. A. Malsin. 176,514; Nov. 27; Serial No. 164,060; published Sept. 11, 1923.
Soap powder. M. Werk Company. 23,394–5; renewed July 25, 1923.
Washing cleanser. Neutral Soap Co. 176,699; Nov. 27; Serial No. 176,642; published Sept. 11, 1923.
Washing or cleansing powder. Warren Soap Manufacturing Company. 176,520; Nov. 27; Serial No. 166,967; published Sept. 11, 1923.

CLASS 5.

Adhesive compound. California Central Creameries. 176,407; Nov. 27; Serial No. 180,840; published Sept. 11, 1923.
Glue and gelatin glue. British Glues and Chemicals, Limited. 176,499; Nov. 27; Serial No. 173,588; published Sept. 18, 1923.
Oil used for flotation purposes, Compounded. Hercules Powder Company. 176,782; Nov. 27.

CLASS 6.

Anticholera and tonic remedy. M. B. Scala. 23,877; renewed Nov. 28, 1923.
Baking powders. H. D. Thatcher & Co. 24,338; renewed Mar. 13, 1924.
Chemical preparation for the face. Denney & Denney. 176,789; Nov. 27.
Colors for dyeing. Wilhelm Brauns, Gesellschaft mit beschränkter Haftung. 176,388; Nov. 27; Serial No. 174,161; published Aug. 14, 1923.
Hair tonic and shampoo. Five-In-One Manufacturing Co. 176,412; Nov. 27; Serial No. 178,698; published Aug. 14, 1923.
Insect exterminating liquid. No-Mor Products Co. 176,446; Nov. 27; Serial No. 180,292; published Aug. 28, 1923.
Insecticide and fungicide. Kil-Tone Company. 176,379; Nov. 27; Serial No. 177,561; published Aug. 7, 1923.
Magnesia preparation. Charles H. Phillips Chemical Company. 24,049; renewed Jan. 16, 1924.
Medical compounds for the treatment of rheumatism, Kattulas and Sotos. 176,378; Nov. 27; Serial No. 177,674; published Aug. 28, 1923.
Medicine used in cases of inflammation, ulceration, and discharges of the urinary tract. Organ-Iron Medicine Company. 176,410; Nov. 27; Serial No. 178,458; published Aug. 7, 1923.
Nitrous oxide and medicinal oxygen. E. F. Platt. 176,414; Nov. 27; Serial No. 178,770; published Aug. 28, 1923.
Oil, Castor. Baker Castor Oil Company. 23,895–6; renewed Dec. 5, 1923.
Oils and chemicals, Essential. Charles H. Phillips Chemical Company. 24,395; renewed Mar. 20, 1924.
Preparation for the treatment of dandruff, falling hair, etc., J. P. Isterling. 176,790; Nov. 27.
Preparation for treating diseases of the mucous membranes. Dr. J. S. Cater. 176,380; Nov. 27; Serial No. 177,593; published Aug. 7, 1923.
Remedies for diseases of the stomach and bowels. Sultan Drug Company. 24,320; renewed Mar. 6, 1924.
Rouge and face powder. Marinello Company. 176,383; Nov. 27; Serial No. 177,187; published July 31, 1923.
Saline cathartic. R. J. Strasenburgh Company. 176,411; Nov. 27; Serial No. 178,641; published July 31, 1923.
Scouring compound, Steam laundry. P. L. Mabrey. 176,792; Nov. 27.
Soap, Iron-rust, ink, and stain. N. C. Edwards. 176,381; Nov. 27; Serial No. 177,656; published Aug. 7, 1923.
Tonic. O. E. Olson. 176,771; Nov. 27.
Tonic to be applied to the scalp and as a hair dressing. Levite Manufacturing Company. 176,377; Nov. 27; Serial No. 177,679; published July 31, 1923.
Water softener. Bowker Chemical Company. 176,413; Nov. 27; Serial No. 178,706; published Aug. 14, 1923.
Welding flux. Sedalia Mfg. Company. 176,382; Nov. 27; Serial No. 177,523; published Aug. 21, 1923.

CLASS 7.

Rope and twine. Compania De Jarcia De Matanzas S. A. 176,594; Nov. 27; Serial No. 479,135; published Sept. 18, 1923.
Window or sash cord, Braided cotton. Samson Cordage Works. 24,411; renewed Mar. 27, 1924.

CLASS 11.

Ink, Printing. Queen City Printing Ink Company. 24,402; renewed Mar. 20, 1924.

CLASS 12.

Cements, High-temperature. Smith-Beal Fire Brick Co. 176,721; Nov. 27; Serial No. 170,904; published Apr. 24, 1923.
Pipe covering. Johns-Manville, Incorporated. 176,709; Nov. 27; Serial No. 183,155; published Sept. 18, 1923.

CLASS 13.

Automobiles and the like, License-tag fasteners for. A. B. Aldrich. 176,470; Nov. 27; Serial No. 181,371; published Sept. 18, 1923.
Bathroom and other fixtures, Supports for. J. A. Hoegger. 176,573; Nov. 27; Serial No. 178,503; published Sept. 18, 1923.
Bathroom fixtures. C. F. Church Manufacturing Co. 176,476; Nov. 27; Serial No. 181,110; published Sept. 18, 1923.
Cast-iron pipe and fittings and other plumbers' supplies. Eastern Foundry Company. 176,579; Nov. 27; Serial No. 178,095; published June 12, 1923.
Fluid-pressure regulating and controlling instruments. Honeywell Heating Specialties Company. 176,762; Nov. 27; Serial No. 175,396; published Sept. 18, 1923.
Furniture slides. Turner & Seymour Manufacturing Co. 176,654; Nov. 27; Serial No. 181,922; published Sept. 18, 1923.
Nipples, Metal pipe. Fred Pabst Company. 176,486; Nov. 27; Serial No. 180,718; published Sept. 18, 1923.
Plumbers' ware. Groeniger Manufacturing Company. 176,586; Nov. 27; Serial No. 177,486; published Sept. 18, 1923.
Springs and steel tubing. Sandvikens Jernverks Aktiebolag. 176,599; Nov. 27; Serial No. 178,871; published Sept. 18, 1923.
Toilet seats, Sanitary cover for. A. M. Price. 176,474; Nov. 27; Serial No. 181,088; published Sept. 18, 1923.
Valves, float boxes, etc., Pressure-reducing, back-pressure, balance, float, and fluid-control. G. M. Davis Regulator Co. 176,664; Nov. 27; Serial No. 182,088; published Sept. 18, 1923.
Valves, Globe and gate. Jenkins Bros. Limited. 176,564; Nov. 27; Serial No. 180,605; published Sept. 18, 1923.
Valves, traps, and regulators. Kieley & Mueller, Inc. 176,551; Nov. 27; Serial No. 183,071; published Sept. 11, 1923.

CLASS 14.

Alloys, Metallic. Du Pont Engineering Company. 176,593; Nov. 27; Serial No. 178,981; published Sept. 18, 1923.
Ingots and castings. A. Gilbert & Sons Brass Foundry Co. 176,629; Nov. 27; Serial No. 163,515; published Sept. 18, 1923.
Metals and their alloys, Nonferrous. Smith & Egge Mfg. Co. 176,467; Nov. 27; Serial No. 181,704; published Sept. 11, 1923.

CLASS 15.

Candles. J. and M. Bechdolt. 176,585; Nov. 27; Serial No. 177,427; published Sept. 18, 1923.
Canned motor oils. Midcontinent Producers' & Refiners' Corporation. 176,389; Nov. 27; Serial No. 175,094; published Aug. 7, 1923.
Coating material. Brogdex Company. 176,759; Nov. 27; Serial No. 175,708; published Sept. 11, 1923.
Gasoline, kerosene, and lubricating oils. Golden Rule Ref. Co. 176,490; Nov. 27; Serial No. 166,770; published Nov. 14, 1922.
Grease, Axle. Hilsgen Bros. 24,196; renewed Feb. 6, 1924.
Grease, Axle. Pure Oil Company. 176,780; Nov. 27.
Kerosene. Associated Oil Company. 176,768; Nov. 27.
Oil, Farm machinery lubricating. Pure Oil Company. 176,785; Nov. 27.
Oil, Lubricating. Galena Oil Works. 23,968; renewed Jan. 2, 1924.
Oils. Atlantic Refining Company. 176,542; Nov. 27; Serial No. 183,812; published Sept. 18, 1923.
Oils and greases, Lubricating. Great Southern Refining Company. 176,466; Nov. 27; Serial No. 176,078; published Sept. 18, 1923.
Oils and greases, Lubricating. Reed Oil Company. 176,462; Nov. 27; Serial No. 176,365; published Sept. 18, 1923.
Oils and greases. Standard Oil Company (New Jersey). 176,408; Nov. 27; Serial No. 181,659; published Sept. 11, 1923.
Oils, greases, candles. West India Oil Company. 176,547; Nov. 27; Serial No. 183,681; published Sept. 18, 1923.
Oils, Lubricating. F. M. Zimmerman. 176,662; Nov. 27; Serial No. 182,031; published Sept. 18, 1923.

CLASS 16.

Oily compound. G. H. Johnson. 176,598; Nov. 27; Serial No. 178,850; published Sept. 18, 1923.
Calcimine. West Coast Kalsomine Company. 176,480; Nov. 27; Serial No. 180,779; published Sept. 18, 1923.
Colors and artist oil colors, Liquid water. Philip Ruxton, Incorporated. 176,398; Nov. 27; Serial No. 182,616; published Sept. 11, 1923.
Colors, varnishes, primers, paint enamels, and mixed paints, Japan. Ditzler Color Company. 176,392; Nov. 27; Serial No. 152,322; published Nov. 28, 1922.

Enamel finish. R. D. Freeman. 176,666; Nov. 27; Serial No. 182,205; published Sept. 18, 1923.
Lacquer compositions. W. H. Scheel. 176,403; Nov. 27; Serial No. 181,961; published Sept. 4, 1923.
Paint. Paraffine Companies, Inc. 176,544; Nov. 27; Serial No. 183,548; published Sept. 18, 1923.
Paint. Paraffine Companies, Inc. 176,545; Nov. 27; Serial No. 183,591; published Sept. 18, 1923.
Paint, colors in oil, zinc paste, etc., Soft-tone flat wall. Winchester Repeating Arms Co. 176,385; Nov. 27; Serial No. 175,731; published Sept. 11, 1923.
Paints. Regulation Paint Co. 176,548; Nov. 27; Serial No. 183,596; published Sept. 18, 1923.
Paints and shellac. Wood-preserving. Davey Tree Expert Company. 176,399; Nov. 27; Serial No. 182,296; published Sept. 11, 1923.
Paints and shellac, Wood-preserving. Davey Tree Expert Company. 176,549; Nov. 27; Serial No. 183,054; published Sept. 18, 1923.
Paints and varnishes. Glidden Company. 176,387; Nov. 27; Serial No. 172,672; published Sept. 11, 1923.
Paints, Oil. R. F. Johnston Paint Co. 176,816; Nov. 27.
Paints, Ready-mixed. Regulation Paint Co. 176,546; Nov. 27; Serial No. 183,597; published Sept. 18, 1923.
Polish and shellac, Liquid. J. Pallse. 176,543; Nov. 27; Serial No. 183,226; published Sept. 18, 1923.
Polish, Floor. W. K. Petrie. 176,641; Nov. 27; Serial No. 166,091; published Sept. 18, 1923.
Polish for furniture, pianos, autos, etc. Visco Chemical Products Company. 176,416; Nov. 27; Serial No. 180,568; published Sept. 11, 1923.
Polishing materials. Cleveland Chemical Corporation. 176,448; Nov. 27; Serial No. 176,949; published Sept. 18, 1923.
Preparations for polishing automobiles, furniture, etc. C. G. Hodapp. 176,779; Nov. 27.
Wax for finishing and polishing floors, etc., and a paint and varnish remover. S. C. Johnson & Son. 176,405; Nov. 27; Serial No. 182,102; published Sept. 11, 1923.
Wood preservatives. Creosote. Western Electric Company. 176,433; Nov. 27; Serial No. 183,240; published Sept. 11, 1923.

CLASS 17.

Cigars. Sig. C. Mayer & Co. 176,803; Nov. 27.

CLASS 19.

Automobile and vehicle coverings. Perkins-Campbell Company. 176,818; Nov. 27.
Automobile bumpers and bumper fittings. Eaton Axle & Spring Company. 176,775; Nov. 27.
Taxicabs, Automobile. Yellow Cab Manufacturing Co. 176,765; Nov. 27.
Vehicles, Motor. Indiana Truck Corporation. 176,784; Nov. 27.
Windshield shades, Motor-vehicle. Motovisor Company. 176,649; Nov. 27; Serial No. 149,858; published Sept. 11, 1923.

CLASS 21.

Radio-detector crystalline compound. J. B. Curry. 176,781; Nov. 27.

CLASS 22.

Fishing lines, rods, and reels. Shapleigh Hardware Company. 176,820; Nov. 27.
Toys, Mechanical. Ferdinand Strauss Corporation. 176,800; Nov. 27.

CLASS 23.

Agricultural hand implements for hoeing and digging. American Fork & Hoe Company. 176,589; Nov. 27; Serial No. 179,509; published Sept. 11, 1923.
Automobile foot throttles. American Mechanical Works. 176,672; Nov. 27; Serial No. 182,393; published Sept. 11, 1923.
Bearings, Ball. Rice Ball Bearing Company. 176,815; Nov. 27.
Beater and whipper, Water-power. P-K Manufacturing Company. 176,660; Nov. 27; Serial No. 182,257; published Sept. 11, 1923.
Bits, reamers, fishing tools for wells, Rotary drill. Reed Roller Bit Co. 176,622; Nov. 27; Serial No. 159,055; published Sept. 18, 1923.
Carburetors and parts thereof. Eagle Carburetor Company. 176,667; Nov. 27; Serial No. 181,823; published Sept. 11, 1923.
Cars, etc., Self-dumping cages for. Car-Dumper & Equipment Co. 176,819; Nov. 27.
Derricks, Oil. V. B. Foster. 176,479; Nov. 27; Serial No. 181,067; published Sept. 18, 1923.
Dies, vises, etc. Crown Die and Tool Company. 176,665; Nov. 27; Serial No. 181,818; published Sept. 11, 1923.
Elevators. Humphrey Elevator Co. 176,674; Nov. 27; Serial No. 182,815; published Sept. 25, 1923.
Gates for granular materials. Beaumont Mfg. Company. 176,656; Nov. 27; Serial No. 181,930; published Sept. 11, 1923.
Handles, Tool. Hartwell Brothers. 176,675–6; Nov. 27; Serial Nos. 182,906–7; published Sept. 18, 1923.
Handles, Tool. Hartwell Brothers. 176,677–8; Nov. 27; Serial Nos. 182,908–10; published Sept. 18, 1923.
Harvesters, thrashers, and combined harvesters and thrashers. Holt Manufacturing Company. 176,668; Nov. 27; Serial No. 182,213; published Sept. 11, 1923.
Razor sets. American Safety Razor Corporation. 176,673; Nov. 27; Serial No. 182,493; published Sept. 11, 1923.
Scissors. N. C. Toops. 176,625; Nov. 27; Serial No. 162,218; published Sept. 18, 1923.
Sewing machines and attachments. Firm of John Wanamaker. 23,926; renewed Dec. 12, 1923.
Shovels, Dust. Bug Dust Shovel Co. 176,793; Nov. 27.
Shovels, spades, scoops, etc. Baldwin Tool Works. 176,518; Nov. 27; Serial No. 166,638; published Sept. 11, 1923.
Tire pumps, slip-on connection for tire pumps, and air chucks. F. I. Jaden. 176,469; Nov. 27; Serial No. 181,282; published Sept. 18, 1923.
Tool handles. Hartwell Brothers. 176,653; Nov. 27; Serial No. 182,913; published Sept. 18, 1923.
Tool handles. Hartwell Brothers. 176,655; Nov. 27; Serial No. 182,912; published Sept. 18, 1923.
Tool handles. Hartwell Brothers. 176,657; Nov. 27; Serial No. 182,911; published Sept. 18, 1923.
Tool handles. Hartwell Brothers. 176,663; Nov. 27; Serial No. 182,915; published Sept. 18, 1923.
Valves, Poppet. Fansteel Products Company. 176,659; Nov. 27; Serial No. 182,965; published Sept. 11, 1923.
Valves, Poppet. Fansteel Products Company. 176,661; Nov. 27; Serial No. 182,964; published Sept. 11, 1923.
Wrenches. Y. M. Bledsoe. 176,553; Nov. 27; Serial No. 183,187; published Sept. 11, 1923.
Wrenches and parts thereof. Henry & Allen. 176,557; Nov. 27; Serial No. 185,634; published Sept. 11, 1923.

CLASS 24.

Washboards. C. E. Williams. 176,787; Nov. 27.

CLASS 26.

Drawing instruments and accessories, surveyors' instruments. Spaulding-Moss Company. 176,465; Nov. 27; Serial No. 175,890; published Sept. 18, 1923.
Eyeglasses, Frames, etc., for. Optical Products Corporation. 176,575; Nov. 27; Serial No. 178,184; published Sept. 18, 1923.
Hygrometers. Taylor Instrument Companies. 176,633; Nov. 27; Serial No. 163,834; published Sept. 25, 1923.
Meters, Lubrication. Radio Engineering Company of New York, Inc. 176,628; Nov. 27; Serial No. 162,695; published Sept. 11, 1923.
Speedometers. Ac Spark Plug Company. 176,630; Nov. 27; Serial No. 163,493; published Sept. 25, 1923.
Thermometers. Taylor Instrument Companies. 176,632; Nov. 27; Serial No. 163,836; published Sept. 25, 1923.
Thermometers, pyrometers, compasses, etc. Imperial Trust for the Encouragement of Scientific and Industrial Research, The. 176,635; Nov. 27; Serial No. 163,983; published Sept. 18, 1923.
Thermometers, pyrometers, compasses, etc. Imperial Trust for the Encouragement of Scientific and Industrial Research, The. 176,639; Nov. 27; Serial No. 163,984; published Sept. 18, 1923.
Thermostatic temperature regulating apparatus. Taylor Instrument Companies. 176,634; Nov. 27; Serial No. 163,837; published Sept. 25, 1923.
Thermostatic temperature regulating apparatus. Taylor Instrument Companies. 176,636–7; Nov. 27; Serial Nos. 163,838–9; published Sept. 25, 1923.

CLASS 27.

Clocks. Phinney-Walker Company. 176,764; Nov. 27.
Clocks. Phinney-Walker Company. 176,766–7; Nov. 27.
Watches, watch movements, and parts of watches. Norris, Alister-Ball Company. 176,783; Nov. 27.

CLASS 28.

Pearls and imitations thereof. L. Heller & Son, Inc. 176,786; Nov. 27.

CLASS 31.

Filtration materials. Adamite Filtration Co. 176,400; Nov. 27; Serial No. 182,326; published Sept. 11, 1923.
Refrigerator display cases. City Refrigerator Company. 176,409; Nov. 27; Serial No. 181,880; published Sept. 11, 1923.

CLASS 32.

Cabinets, Kitchen. Coppes Brothers & Zook. 176,824; Nov. 27.
Cabinets, Stencil. Elliott Company. 176,438; Nov. 27; Serial No. 180,693; published Sept. 11, 1923.
Desks, filing cabinets, davenports, chairs, etc. Whelan-Linck Co. 176,774; Nov. 27.
Mattresses. John Hoey & Co. 176,703; Nov. 27; Serial No. 177,085; published Sept. 11, 1923.
Mirrors and picture frames, Hand. Newark Tortoise Shell Novelty Co. 176,794; Nov. 27.
Springs and bedsteads, Bed. Norfolk Mattress Company. 176,443; Nov. 27; Serial No. 180,347; published Sept. 11, 1923.

CLASS 33.

Shades, globes, and other glassware. Phoenix Glass Company; 23,832; renewed Nov. 21, 1923.

CLASS 35.

Automobile accessories. J. N. Gold. 176,513; Nov. 27; Serial No. 164,431; published July 17, 1923.

Belting, Leather. John Ormerod & Sons, Ltd. 176,720; Nov. 27; Serial No. 170,832; published Sept. 11, 1923.

CLASS 36.

Pianos. O. W. Wuertz Co. 176,776; Nov. 27.
Talking machines and pianos. L. Bamberger & Co. 176,777; Nov. 27.

CLASS 37.

Duplicating rolls. Beck Duplicator Company. 176,702; Nov. 27; Serial No. 177,085; published Sept. 11, 1923.
Paper. Chicago Paper Company. 176,395; Nov. 27; Serial No. 171,726; published Sept. 11, 1923.
Paper. Chicago Paper Company. 176,396; Nov. 27; Serial No. 171,728; published Sept. 11, 1923.
Paper. Gilbert Paper Co. 176,401; Nov. 27; Serial No. 182,410; published Sept. 11, 1923.
Paper and envelopes, Writing. Rose Company. 176,432; Nov. 27; Serial No. 183,232; published Sept. 11, 1923.
Paper, blank books, etc. Levey Printing Company. 176,730; Nov. 27; Serial No. 173,508; published Sept. 11, 1923.
Paper, Bond. Louisville Paper Co. 176,402; Nov. 27; Serial No. 181,902; published Sept. 11, 1923.
Paper, Bond. Louisville Paper Co. 176,421; Nov. 27; Serial No. 181,901; published Sept. 11, 1923.
Paper, Bristol. American Writing Paper Company. 176,404; Nov. 27; Serial No. 182,037; published Sept. 11, 1923.
Paper, Enameled book. Martin Cantine Co. 176,430–1; Nov. 27; Serial Nos. 182,980–1; published Sept. 11, 1923.
Paper, envelopes, print book cover, etc., Wrapping and manila. J. W. Butler Paper Co. 176,406; Nov. 27; Serial No. 180,839; published Aug. 28, 1923.
Paper, Ledger. Diem & Wing Paper Co. 176,769–70; Nov. 27.
Paper, Linen ledger. Louisville Paper Co. 176,778; Nov. 27.
Paper, tablets, papeteries, etc., Writing. Central Ohio Paper Company. 176,610; Nov. 27; Serial No. 179,458; published Sept. 11, 1923.
Paper towels, napkins, and wrappers for delicatessen lunches. H. N. Goldsmith. 176,397; Nov. 27; Serial No. 182,750; published Sept. 11, 1923.
Paper wadding. American Lace Paper Company. 176,435; Nov. 27; Serial No. 182,784; published Sept. 11, 1923.
Paper, Wrapping. Union Paper & Twine Co. 176,563; Nov. 27; Serial No. 180,567; published Aug. 7, 1923.
Paper, Wrapping. Whitaker Paper Company. 176,393; Nov. 27; Serial No. 170,737; published Sept. 11, 1923.
Tablets and school pads. Jackson Paper Co. 176,436; Nov. 27; Serial No. 182,816; published Sept. 11, 1923.
Writing pads. D. M. Kumpf. 176,795; Nov. 27.
Writing pads. E. A. Luno. 176,791; Nov. 27.

CLASS 38.

Circulars, bulletins, etc., Printed. International Bank. 176,539; Nov. 27; Serial No. 182,310; published Sept. 11, 1923.
House organ published monthly. Chr. Hansen's Laboratory, Inc. 176,417; Nov. 27; Serial No. 180,761; published Sept. 18, 1923.
Magazine. The Beanpot. 176,504; Nov. 27; Serial No. 163,571; published Sept. 11, 1923.
Magazine articles. Fairchild Company. 176,531; Nov. 27; Serial No. 182,853; published Sept. 18, 1923.
Magazine issued monthly. Commercial Truck Company. 176,710; Nov. 27; Serial No. 183,196; published Sept. 11, 1923.
Magazine, Monthly. Holland Furnace Company. 176,426; Nov. 27; Serial No. 181,024; published Sept. 11, 1923.
Magazine, Quarterly. Collegiate World Publishing Company. 176,422; Nov. 27; Serial No. 181,730; published Sept. 18, 1923.
Magazine supplement, Weekly. Tribune Company. 176,515; Nov. 27; Serial No. 166,412; published Sept. 11, 1923.
Magazines, Monthly. St. L. Estes. 176,602; Nov. 27; Serial No. 179,716; published Sept. 11, 1923.
Newspaper. Cleveland Shopping News Company. 176,693; Nov. 27; Serial No. 159,409; published Sept. 11, 1923.
Newspaper, Afternoon. Bellingham Publishing Company. 176,390; Nov. 27; Serial No. 175,127; published Apr. 17, 1923.
Newspaper, Morning. Bellingham Publishing Company. 176,386; Nov. 27; Serial No. 175,128; published Apr. 17, 1923.
Periodical, Monthly. Republican Women of Pennsylvania, Incorporated. 176,527; Nov. 27; Serial No. 182,610; published Sept. 18, 1923.
Periodical, Monthly. Yellow Cab Manufacturing Co. 176,425; Nov. 27; Serial No. 181,329; published Sept. 11, 1923.
Periodicals. H. K. Miller. 176,714; Nov. 27; Serial No. 183,220; published Sept. 11, 1923.
Periodicals, Monthly. H. K. Miller. 176,526; Nov. 27; Serial No. 182,600; published Sept. 11, 1923.
Publication, Monthly. Charleston Electrical Supply Co. 176,728; Nov. 27; Serial No. 173,277; published Sept. 11, 1923.
Publication, Monthly. Diamond Cab Sales Corporation. 176,419; Nov. 27; Serial No. 181,014; published Sept. 11, 1923.
Publication, Monthly. National Federation of Uncle Sam's Voters. 176,537; Nov. 27; Serial No. 182,218; published Sept. 18, 1923.
Publication, Monthly. G. F. Whitehouse. 176,418; Nov. 27; Serial No. 180,997; published Sept. 11, 1923.
Publications, Weekly. Bankers Supply Co. 176,424; Nov. 27; Serial No. 181,509; published Sept. 11, 1923.

CLASS 39.

Aprons and dresses, Women's. Sterling Company. 176,555; Nov. 27; Serial No. 180,948; published Aug. 20, 1923.
Caps, sweaters, scarfs, etc. J. B. Shansby. 176,571; Nov. 27; Serial No. 178,534; published Sept. 18, 1923.
Clothing. Magnus Imports, Ltd. 176,561; Nov. 27; Serial No. 180,871; published Sept. 18, 1923.
Clothing. J. C. Shannon. 176,588; Nov. 27; Serial No. 180,398; published Sept. 18, 1923.
Coats, vests, pants, and overcoats. M. Robinson. 176,811; Nov. 27.
Collars and cuffs. Franklin Simon & Co. 176,500; Nov. 27; Serial No. 173,338; published Sept. 11, 1923.
Collars, pyjamas, and shirts. H. Berger. 176,481; Nov. 27; Serial No. 180,739; published Sept. 11, 1923.
Dresses. Levy-Shulman & Co. 176,801; Nov. 27.
Dresses. S. Moses. 176,471–2; Nov. 27; Serial Nos. 181,140–1; published Sept. 11, 1923.
Dresses, bath robes, aprons, negligees, Ladies'. Miller Brothers. 176,495; Nov. 27; Serial No. 166,841; published Sept. 18, 1923.
Fur coats, capes, scarfs, etc. Jalkoff Bros. Inc. 176,570; Nov. 27; Serial No. 178,505; published Sept. 18, 1923.
Heels of rubber or analogous material. Pietzuch Wonder Arch Guide Heel Company. 176,644; Nov. 27; Serial No. 143,996; published Sept. 18, 1923.
Hose supporters, suspenders, garters, etc. P. A. Patrick & Co. 176,809; Nov. 27.
Hosiery. Ambridge Knitting Company. 176,484; Nov. 27; Serial No. 180,680; published Sept. 18, 1923.
Hosiery. W. A. Bearman. 176,658; Nov. 27; Serial No. 181,973; published Sept. 18, 1923.
Hosiery. John M. Given Company. 176,483; Nov. 27; Serial No. 180,660; published Sept. 18, 1923.
Hosiery. John M. Given Company. 176,485; Nov. 27; Serial No. 180,699; published Sept. 18, 1923.
Hosiery. C. H. Goepel, jr. 176,597; Nov. 27; Serial No. 178,719; published Sept. 11, 1923.
Hosiery. D. B. May. 176,569; Nov. 27; Serial No. 178,562; published Sept. 18, 1923.
Hosiery. Thomas G. Plant Company. 176,660; Nov. 27; Serial No. 181,958; published Sept. 18, 1923.
Hosiery. Richmond Hosiery Mills. 176,460; Nov. 27; Serial No. 176,571; published Sept. 18, 1923.
Hosiery and knitted underwear. Campe Corporation. 176,475; Nov. 27; Serial No. 181,109; published Sept. 18, 1923.
Hosiery, boots, shoes, overalls, and rompers. Sherman & Lebair, Incorporated. 176,496; Nov. 27; Serial No. 174,492; published Sept. 18, 1923.
Hosiery, socks, and stockings. Campe-Davis-Blair Co. 176,558; Nov. 27; Serial No. 180,747; published Sept. 18, 1923.
Knitted garments. S. J. Sager Company. 176,642; Nov. 27; Serial No. 156,934; published Sept. 18, 1923.
Neckties, cravats, and scarfs. Frank & Meyer Neckwear Co. 176,494; Nov. 27; Serial No. 168,465; published Sept. 18, 1923.
Overcoats, raincoats, smoking jackets, etc. Heidelberg, Wolff & Co. 176,587; Nov. 27; Serial No. 179,728; published Sept. 11, 1923.
Overcoats, raincoats, smoking jackets, housecoats, etc. Heidelberg, Wolff & Co. 176,565; Nov. 27; Serial No. 179,727; published Sept. 11, 1923.
Raincoats, ladies' skirts, dresses, etc. Lorraine Manufacturing Company. 176,798; Nov. 27.
Shirts. Columbia Shirt Company. 176,559–60; Nov. 27; Serial Nos. 180,788–9; published Sept. 11, 1923.
Shirts. Jacob Miller's Sons Co. 176,478; Nov. 27; Serial No. 181,039; published Sept. 11, 1923.
Shirts and boys' shirts and blouses. Louis Diamond Co. 176,554; Nov. 27; Serial No. 180,922; published Sept. 11, 1923.
Shirts and underwear. Mincey Manufacturing Company. 176,482; Nov. 27; Serial No. 180,982; published Sept. 18, 1923.
Shirts, collars, blouses, etc., Negligee. William Hollins & Co. 176,623; Nov. 27; Serial No. 1 161,005; published Sept. 18, 1923.
Shirts, collars, underwear, shoes, etc. Wallach Bros. 176,493; Nov. 27; Serial No. 169,569; published Sept. 18, 1923.
Shirts, Dress and top. Apollo Shirt Company. 176,454; Nov. 27; Serial No. 76,869; published Sept. 18, 1923.
Shoes. J. P. Twaddell. 24,264; renewed Feb. 20, 1924.
Shoes and slippers. Wichert, Inc. 176,822–3; Nov. 27.
Shoes, Rubber-soled canvas. North British Rubber Company. 23,666; renewed Oct. 3, 1923.
Socks, stockings, and hosiery. Floradel Knitting Mills Inc. 176,491; Nov. 27; Serial No. 172,798; published Sept. 18, 923

Suits, dusters, coats, and caps, etc. Lorraine Manufacturing Company. 176,799; Nov. 27.
Suits, overcoats, sheepskin coats, pants, etc. I. I. Marrus. 176,449; Nov. 27; Serial No. 177,310; published Sept. 18, 1923.
Sweaters. Neuman & Silver. 176,760; Nov. 27; Serial No. 175,511; published Aug. 2, 1923.
Sweaters, bathing suits, scarfs, caps, etc., Knitted. Standard Knitting Mills. 176,468; Nov. 27; Serial No. 181,424; published Sept. 18, 1923.
Ties and cravats. Friedman Bros. & Sons Neckwear Co. 176,473; Nov. 27; Serial No. 181,271; pulished Sept. 18, 1923.
Trousers and pants. Penn Trouser Co. 176,821; Nov. 27.
Undershirts, underdrawers, and union suits. Tryon Mills of Vermont. 176,583; Nov. 27; Serial No. 177,930; published Aug. 14, 1923.
Underwear, Ladies' and girls' knit. Reading Underwear Co. 176,607; Nov. 27; Serial No. 179,554; published Sept. 18, 1923.
Underwear, Men's. C. M. Walker. 176,761; Nov. 27; Serial No. 175,446; published Sept. 11, 1923.
Waistbands. See The Point Waistband Company. 176,624; Nov. 27; Serial No. 161,651; published Sept. 18, 1923.

CLASS 40.

Bedcover holders. E. C. Laird. 176,773; Nov. 27.
Dress shields. Canfield Rubber Company. 24,208; renewed Feb. 13, 1924.
Pins and hand sewing needles, Common. William Prym Company. 176,747; Nov. 27; Serial No. 175,996; published Sept. 11, 1923.
Shoulder straps, Flexible. H. T. Applegate. 176,511; Nov. 27; Serial No. 165,054; published Sept. 11, 1923.

CLASS 42.

Woolen dress goods. Botany Worsted Mills. 23,936; renewed Dec. 19, 1923.

CLASS 44.

Buffing implements, etc., Manicurists. P. C. P. Booty. 176,394; Nov. 27; Serial No. 171,411; published Sept. 11, 1923.
Dental fillings, Foundation and pulp protector used in making metal. H. B. Garrison. 176,427; Nov. 27; Serial No. 183,269; published Sept. 11, 1923.
Foot-massaging device. W. Saklad. 176,552; Nov. 27; Serial No. 183,124; published Sept. 18, 1923.
Gauze and absorbent cotton. Bauer & Black. 176,550; Nov. 27; Serial No. 183,355; published Sept. 18, 1923.
Sanitary aprons and belts. A. Stein & Company. 176,556; Nov. 27; Serial No. 183,002; published Sept. 18, 1923.
Teeth, Artificial. H. D. Justi & Son. 176,477; Nov. 27; Serial No. 181,024; published Sept. 18, 1923.

CLASS 45.

Beer, Root. Charles E. Hires Company. 24,058; renewed Jan. 16, 1924.
Beverage sold for soft drink purposes. De Lue Company. 176,806; Nov. 27.
Beverages, fruit sirups, extracts, and flavorings for the same. R. E. Marett. 176,429; Nov. 27; Serial No. 184,412; published Sept. 18, 1923.
Beverages, Nonalcoholic. J. W. Palmer. 176,415; Nov. 27; Serial No. 180,386; published Sept. 18, 1923.
Beverages, sold as soft drinks, and sirups for making the same. Cherry Blossom Mfg. Co. 176,802; Nov. 27.
Cider and grape juice. Roscoe Haeglin Co. 176,647; Nov. 27; Serial No. 152,277; published Oct. 18, 1921.
Water, Spring drinking. B. J. Russell. 176,788; Nov. 27.

CLASS 46.

Apples, Fresh. Cashmere Fruit Growers Union. 176,535; Nov. 27; Serial No. 182,563; published Sept. 11, 1923.
Apples, Fresh. Growers Service Co. 176,723; Nov. 27; Serial No. 171,840; published Sept. 11, 1923.
Apples, Fresh. Jensen & Sons. 176,530; Nov. 27; Serial No. 182,916; published Sept. 18, 1923.
Apples, Fresh. J. C. Palumbo. 176,522; Nov. 27; Serial No. 182,928; published Sept. 18, 1923.
Biscuit, Cereal. Battle Creek Food Company. 176,751; Nov. 27; Serial No. 175,700; published Aug. 7, 1923.
Bran. Warner, Moore & Co. 176,752; Nov. 27; Serial No. 175,582; published Aug. 7, 1923.
Bread. Nafziger Baking Company. 176,756; Nov. 27; Serial No. 175,262; published July 31, 1923.
Bread. P. O. Sampson. 176,572; Nov. 27; Serial No. 178,289; published Aug. 21, 1923.
Bread. Union Bakery. 176,566; Nov. 27; Serial No. 179,691; published Sept. 18, 1923.
Bread. Ward Baking Company. 176,492; Nov. 27; Serial No. 170,512; published Aug. 21, 1923.
Butter. Anna Creamery Company. 176,616; Nov. 27; Serial No. 174,685; published July 31, 1923.
Butter, eggs, and cheese. Taylor Produce Co. 176,648; Nov. 27; Serial No. 150,413; published Aug. 7, 1923.
Butter, eggs, lard, etc. Dunlevy Packing Company. 176,646; Nov. 27; Serial No. 155,668; published July 24, 1923.
Café au lait. Nestlé & Anglo-Swiss Condensed Milk Co. 176,696; Nov. 27; Serial No. 157,627; published Sept. 18, 1923.
Cake. Tasty Baking Company. 176,645; Nov. 27; Serial No. 157,084; published July 24, 1923.
Cake and cake mix. Joe Lowe Co. 176,580; Nov. 27; Serial No. 178,109; published Aug. 21, 1923.
Cakes. Colonial Biscuit Company. 176,502; Nov. 27; Serial No. 159,410; published Aug. 7, 1923.
Candies, Douglass Caramel Company. 176,605; Nov. 27; Serial No. 179,591; published Sept. 18, 1923.
Candies. Loft, Inc. 176,437; Nov. 27; Serial No. 180,708; published Sept. 11, 1923.
Candies and sweetmeats. Callard & Bowser. 24,507; renewed Apr. 10, 1924.
Candies, candy confections, sweetmeats, and chewing gum. Ideal Caramel Company. 176,704; Nov. 27; Serial No. 177,227; published Sept. 4, 1923.
Candies, Marshmallow. Wm. H. Luden Inc. 176,716; Nov. 27; Serial No. 183,308; published Sept. 18, 1923.
Candy. Ambrosia Chocolate Co. 176,686; Nov. 27; Serial No. 168,094; published Aug. 21, 1923.
Candy. Bonita Co. 176,604; Nov. 27; Serial No. 179,849; published Sept. 11, 1923.
Candy. Butterswet Products Corporation. 176,439; Nov. 27; Serial No. 180,580; published Sept. 11, 1923.
Candy. Dolly Varden Chocolate Company. 176,538; Nov. 27; Serial No. 182,236; published Sept. 11, 1923.
Candy. Geiger Candy Company. 176,525; Nov. 27; Serial No. 183,058; published Sept. 18, 1923.
Candy. Geiger Candy Company. 176,707–8; Nov. 27; Serial Nos. 183,060–1; published Sept. 18, 1923.
Candy. Wm. H. Luden Inc. 176,444; Nov. 27; Serial No. 180,541; published Sept. 18, 1923.
Candy. W. R. Montague Company. 176,688; Nov. 27; Serial No. 167,580; published July 31, 1923.
Candy. C. J. Rosso. 176,717; Nov. 27; Serial No. 183,317; published Sept. 18, 1923.
Candy. Schutter-Johnson Candy Co. 176,440–2; Nov. 27; Serial Nos. 180,555–7; published Sept. 11, 1923.
Candy. Mrs. Snyder's Whipped Cream Chocolates, Inc. 176,810; Nov. 27.
Candy. Standard Candy Company. 176,668; Nov. 27; Serial No. 179,492; published Sept. 11, 1923.
Candy, Licorice. National Licorice Company. 176,523; Nov. 27; Serial No. 183,041; published Sept. 18, 1923.
Canned fish. Taylor & Sledd, Inc. 176,447; Nov. 27; Serial No. 176,927; published Sept. 11, 1923.
Canned fish, vegetables, and fruits, jams, etc. Taylor & Sledd, Inc. 176,452; Nov. 27; Serial No. 176,926; published Sept. 11, 1923.
Canned fruits and vegetables. Frazar & Company. 176,718; Nov. 27; Serial No. 183,371; published Sept. 18, 1923.
Canned fruits, vegetables, and fish. Kockos Bros., Inc. 176,712–3; Nov. 27; Serial Nos. 183,216–7; published Sept. 18, 1923.
Canned goods. John R. Thompson Co. 176,487; Nov. 27; Serial No. 175,030; published Aug. 21, 1923.
Canned goods, tea, coffee, etc. Fischer Brothers Company. 176,750; Nov. 27; Serial No. 175,782; published Aug. 14, 1923.
Canned grapefruit, fruit salad, pimientoes, tunny, etc. Western Grocer Company. 176,742; Nov. 27; Serial No. 176,235; published Aug. 14, 1923.
Canned salmon. Stuart Packing Corporation. 176,528; Nov. 27; Serial No. 182,622; published Sept. 11, 1923.
Canned sardines. Austin, Nichols & Co. 176,705; Nov. 27; Serial No. 178,206; published Sept. 11, 1923.
Canned shrimp. Dorgan-McPhillips Sales Co. 176,715; Nov. 27; Serial No. 183,258; published Sept. 18, 1923.
Canned shrimp. Grand Lake & Gulf Shrimp Company. 176,533–4; Nov. 27; Serial Nos. 182,512–13; published Sept. 11, 1923.
Canned sweet corn. Faribault Canning Co. 176,540; Nov. 27; Serial No. 182,408; published Sept. 11, 1923.
Canned tomatoes and preserved pickles. Keokuk Canning Company. 176,611; Nov. 27; Serial No. 179,276; published Sept. 11, 1923.
Cantaloupes, cassaba, and vegetables, Fresh. Half Moon Fruit & Produce Co. 176,507; Nov. 27; Serial No. 159,870; published Sept. 11, 1923.
Capers, vinegar, olives, pickles, lard, etc. C. Perceval. 176,701; Nov. 27; Serial No. 177,049; published Sept. 11, 1923.
Cereal, Wheat. Sims Milling Company. 176,592; Nov. 27; Serial No. 179,229; published Sept. 18, 1923.
Cereals, Breakfast. Colton Brothers Company. 176,755; Nov. 27; Serial No. 175,386; published Aug. 7, 1923.
Cheese. Phenix Cheese Co. 176,724; Nov. 27; Serial No. 172,392; published July 24, 1923.
Cheese. M. O. Schaefer. 176,615; Nov. 27; Serial No. 174,866; published July 24, 1923.
Cheese, milk, and cream. Lily Brook Farms, Inc. 176,749; Nov. 27; Serial No. 175,8000; published Aug. 7, 1923.
Chowchow pickle, mixed pickles, sour onions, etc. Silver Lane Pickle Company. 176,606; Nov. 27; Serial No. 179,562; published Sept. 11, 1923.
Chowder. C. W. McMorran. 176,740; Nov. 27; Serial No. 176,491; published Sept. 11, 1923.
Cocoa and chocolate. Hooton Cocoa Company. 176,536; Nov. 27; Serial No. 182,587; published Sept. 11, 1923.

Cocoa and chocolate. Charles H. Phillips Chemical Co. 176,613; Nov. 27; Serial No. 178,465; published Sept. 11, 1923.
Cocoa and chocolate. Charles H. Phillips Chemical Co. 176,706; Nov. 27; Serial No. 178,464; published Sept. 11, 1923.
Coffee. H. Lustine. 176,808; Nov. 27.
Coffee. Thomas J. Webb Company. 176,612; Nov. 27; Serial No. 179,075; published Sept. 11, 1923.
Coffee and tea. Leon Israel & Bros., Inc. 176,652; Nov. 27; Serial No. 125,112; published Sept. 11, 1923.
Coffee and tea. T. J. Lipton. 23,837–8; renewed Nov. 21, 1923.
Coffee, tea, cocoa, spices, etc. Defiance Grocery Company. 176,584; Nov. 27; Serial No. 177,367; published Aug. 21, 1923.
Cookies. Bishop & Company. 176,679; Nov. 27; Serial No. 174,955; published July 31, 1923.
Cookies. Bishop & Company. 176,698; Nov. 27; Serial No. 174,956; published July 31, 1923.
Cream, condensed, milk, and cheese, Export. E. Smidt. 176,683; Nov. 27; Serial No. 169,458; published Aug. 7, 1923.
Dairy products. Cowiche Creamery. 176,731; Nov. 27; Serial No. 173,565; published July 31, 1923.
Dairy products. Puritas Farms, Inc. 176,643; Nov. 27; Serial No. 151,098; published Aug. 21, 1923.
Dairy products. United Fruit Company. 176,627; Nov. 27; Serial No. 163,242; published Aug. 21, 1923.
Dairy products. United Fruit Company. 176,631; Nov. 27; Serial No. 163,245; published Aug. 21, 1923.
Dressing, olive oil, cheese, etc., French. M. Locci. 176,576; Nov. 27; Serial No. 178,265; published Aug. 21, 1923.
Eggs. P. W. Sahrbeck. 176,456; Nov. 27; Serial No. 176,694; published Sept. 4, 1923.
Eggs. Spangenberg & Co. 176,685; Nov. 27; Serial No. 168,494; published July 31, 1923.
Feed, Cattle, etc. A. T. Peters. 176,506; Nov. 27; Serial No. 161,200; published July 31, 1923.
Feed, Chicken. Ryde & Company. 176,620; Nov. 27; Serial No. 174,489; published July 24, 1923.
Feed, Poultry. Quaker Oats Company. 176,488; Nov. 27; Serial No. 174,922; published Aug. 21, 1923.
Feed, shorts, and corn meal, Wheat. Cape County Milling Co. 176,591; Nov. 27; Serial No. 179,182; published Sept. 18, 1923.
Feed, Stock. Alfocorn Milling Company. 176,582; Nov. 27; Serial No. 177,811; published Aug. 21, 1923.
Feed, Stock. I. S. Joseph Company. 176,595; Nov. 27; Serial No. 179,151; published Sept. 11, 1923.
Feed, Stock. Ryde & Company. 176,619; Nov. 27; Serial No. 174,490; published July 24, 1923.
Feed, Stock. Ubiko Milling Company. 176,640; Nov. 27; Serial No. 165,900; published Aug. 21, 1923.
Feed, Stock and poultry. Case-Teel Company. 176,618; Nov. 27; Serial No. 174,509; published July 31, 1923.
Feeds. J. M. Wilson. 176,600; Nov. 27; Serial No. 178,649; published Sept. 11, 1923.
Feeds, Horse, poultry, hog, and dairy. G. F. Obrecht. 176,754; Nov. 27; Serial No. 175,405; published Aug. 7, 1923.
Feeds, Livestock. C. R. Mabee. 176,501; Nov. 27; Serial No. 173,971; published Aug. 21, 1923.
Feeds, Poultry. M. C. Peters Mill Co. 176,577; Nov. 27; Serial No. 177,993; published Aug. 21, 1923.
Feeds, Poultry. George Urban Milling Company. 176,450; Nov. 27; Serial No. 177,336; published Aug. 21, 1923.
Feeds, Stock. Quaker Oats Company. 176,736; Nov. 27; Serial No. 173,982; published July 24, 1923.
Figs, Stuffed. W. C. Cook & Co. 176,524; Nov. 27; Serial No. 183,053; published Sept. 18, 1923.
Flour and stock feeds. Quaker Oats Company. 176,737; Nov. 27; Serial No. 174,102; published July 31, 1923.
Flour, Hard-wheat. Wells-Abbott-Nieman Co. 176,734; Nov. 27; Serial No. 173,946; published July 24, 1923.
Flour improvers. De Bruyn, Limited. 176,694; Nov. 27; Serial No. 158,705; published Aug. 7, 1923.
Flour, Self-rising. Sprague Roller Mills. 176,719; Nov. 27; Serial No. 170,734; published July 24, 1923.
Flour, Wheat. Bay State Milling Co. 176,489; Nov. 27; Serial No. 175,061; published Aug. 21, 1923.
Flour, Wheat. Harrison & Co. 176,516; Nov. 27; Serial No. 166,371; published July 31, 1923.
Flour, Wheat. Harrison & Co. 176,517; Nov. 27; Serial No. 166,672; published July 31, 1923.
Flour, Wheat. Harrison & Co. 176,521; Nov. 27; Serial No. 166,673; published July 31, 1923.
Flour, Wheat. International Milling Company. 176,578; Nov. 27; Serial No. 178,044; published Aug. 21, 1923.
Flour, Wheat. M. D. King Milling Company. 176,743–4; Nov. 27; Serial Nos. 176,192–3; published Aug. 14, 1923.
Flour, Wheat. A. S. Leo. 176,650; Nov. 27; Serial No. 143,823; published July 31, 1923.
Flour, Wheat. Longmont Farmers Milling & Elevator Co. 176,681; Nov. 27; Serial No. 169,722; published July 31, 1923.
Flour, Wheat. Martin Boyd & Co. 176,567; Nov. 27; Serial No. 178,589; published Sept. 18, 1923.
Flour, Wheat. Minneapolis Milling Co. 176,735; Nov. 27; Serial No. 173,974; published Aug. 7, 1923.
Flour, Wheat. Model Mill Company. 176,748; Nov. 27; Serial No. 175,802; published Aug. 7, 1923.
Flour, Wheat. Northfield Flour Mills Company. 176,458–9; Nov. 27; Serial Nos. 176,423–4; published Aug. 21, 1923.
Flour, Wheat. Northfield Flour Mills Company. 176,464; Nov. 27; Serial No. 176,422; published Aug. 21, 1923.
Flour, Wheat. Phoenix Flour Mill. 176,451; Nov. 27; Serial No. 176,914; published Aug. 14, 1923.
Flour, Wheat. Pillsbury Flour Mills Company. 176,729; Nov. 27; Serial No. 173,377; published Aug. 7, 1923.
Flour, Wheat. Quaker Oats Company. 176,614; Nov. 27; Serial No. 174,914; published Aug. 7, 1923.
Flour, Wheat. Southwestern Milling Company. 176,617; Nov. 27; Serial No. 174,597; published July 31, 1923.
Flour, Wheat. State Line Milling Co. 176,590; Nov. 27; Serial No. 179,170; published Sept. 11, 1923.
Flour, Wheat. Thompson Milling Company. 24,553; renewed Apr. 17, 1924.
Flour, Wheat. Trenton Milling Co. 176,505; Nov. 27; Serial No. 162,148; published July 31, 1923.
Flour, Wheat. Vignes-Bombet Grocer Co. 176,601; Nov. 27; Serial No. 178,645; published Sept. 18, 1923.
Flour, Wheat. Washburn-Crosby Company. 176,581; Nov. 27; Serial No. 177,754; published Aug. 21, 1923.
Flour, Wheat and rye. George Urban Milling Company. 176,741; Nov. 27; Serial No. 176,299; published Aug. 14, 1923.
Food, Article of. Harrington & Hord. 176,684; Nov. 27; Serial No. 169,129; published July 31, 1923.
Food, Cereal breakfast. Battle Creek Food Company. 176,461; Nov. 27; Serial No. 176,247; published Aug. 21, 1923.
Food for chickens. E. R. Schooley. 176,519; Nov. 27; Serial No. 166,573; published July 31, 1923.
Food product, Nonconstipating health. P. D. Panoulias. 176,512; Nov. 27; Serial No. 164,449; published Sept. 11, 1923.
Food, Vegetable. Battle Creek Food Company. 176,453; Nov. 27; Serial No. 176,816; published Sept. 4, 1923.
Foods, Breakfast cereal. Home Food Service Company. 176,692; Nov. 27; Serial No. 167,084; published July 31, 1923.
Foods, Cereal breakfast. Kellogg Toasted Corn Flake Co. 176,726; Nov. 27; Serial No. 172,884; published July 24, 1923.
Foods, wheat, etc., flour, Cereal breakfast. Wheaco Cereal Corporation. 176,691; Nov. 27; Serial No. 167,111; published July 31, 1923.
Fruit and salted-nut mixture, Dried. Select Packing Co. 176,609; Nov. 27; Serial No. 179,487; published Sept. 11, 1923.
Fruit, canned vegetables, peanut butter, Dried. Twohy-Smith Company. 176,457; Nov. 27; Serial No. 176,810; published Sept. 4, 1923.
Fruit in jars, figs, dates, etc. Park & Tilford. 176,725; Nov. 27; Serial No. 172,553; published July 31, 1923.
Fruit pectin. Hood River Apple Vinegar Co. 176,711; Nov. 27; Serial No. 183,213; published Sept. 18, 1923.
Fruits, Citrous. California Fruit Growers Exchange. 176,732; Nov. 27; Serial No. 173,621; published Sept. 4, 1923.
Fruits, Citrous. Gold Buckle Association. 176,497; Nov. 27; Serial No. 173,643; published Sept. 25, 1923.
Fruits, Citrous. Gold Buckle Association. 176,498; Nov. 27; Serial No. 173,637; published Sept. 11, 1923.
Fruits; nuts, etc., Citrous. R. C. Vilas. 176,757; Nov. 27; Serial No. 175,227; published July 31, 1923.
Hominy. American Hominy Company. 176,574; Nov. 27; Serial No. 178,156; published Aug. 21, 1923.
Ices, Edible chocolate-lined shell adapted to contain. Polar Food Products Corp. 176,423; Nov. 27; Serial No. 181,539; published Sept. 11, 1923.
Lard. Anglo-American Provision Company. 24,555; renewed Apr. 17, 1924.
Lard. E. Kahn's Sons Company. 176,638; Nov. 27; Serial No. 165,451; published Sept. 18, 1923.
Lard. Schaffner Brothers Company. 176,680; Nov. 27; Serial No. 169,930; published Sept. 18, 1923.
Lard substitute. Wynne Lard & Provision Co. 176,804; Nov. 27.
Lard substitute. Wynne Lard & Provision Co. 176,807; Nov. 27.
Marmalade. Florida Products Company. 176,532; Nov. 27; Serial No. 182,505; published Sept. 11, 1923.
Meal and grits, horse, cow, and hen feed, etc., Corn. Western Grain Company. 176,763; Nov. 27; Serial No. 175,117; published Aug. 21, 1923.
Meats, hams, bacon, etc. Illinois Meat Company. 176,621; Nov. 27; Serial No. 174,306; published Sept. 18, 1923.
Milk and cream, butter, cheese, eggs, etc., Raw. W. Mellor. 176,510; Nov. 27; Serial No. 166,082; published July 31, 1923.
Milk, butter. C. J. Davol. 176,687; Nov. 27; Serial No. 167,714; published July 31, 1923.
Milk, Condensed. Nestlé & Anglo-Swiss Condensed Milk Co. 176,697; Nov. 27; Serial No. 157,625; published Sept. 11, 1923.
Milk without sugar, Concentrated. Nestlé & Anglo-Swiss Condensed Milk Co. 176,695; Nov. 27; Serial No. 157,628; published Sept. 18, 1923.
Nuts and peanut butter. Pedigreed Products Corporation. 176,700; Nov. 27; Serial No. 176,648; published Sept. 11, 1923.
Oats, coffee, salted peanuts, etc., Rolled. G. E. Bursley & Company. 176,758; Nov. 27; Serial No. 175,183; published July 31, 1923.

Oil, Olive. F. Romeo & Co. 176,690; Nov. 27; Serial No. 167,364; published Aug. 21, 1923.
Oils, macaroon paste, crystallized fruit candies, etc., Salad and cooking. California Prune & Apricot Growers, Inc. 176,727; Nov. 27; Serial No. 172,932; published Aug. 21, 1923.
Oleomargarine. Jaburg Brothers, Inc. 176,455; Nov. 27; Serial No. 176,630; published Sept. 11, 1923.
Oranges, bananas, mangoes, jam, etc. W. L. Kann. 176,529; Nov. 27; Serial No. 182,824; published Sept. 18, 1923.
Oysters. Haas Brothers. 24,182; renewed Feb. 6, 1924.
Paste products, Alimentary. A. Goodman & Sons, Inc. 176,682; Nov. 27; Serial No. 169,545; published Sept. 11, 1923.
Pies, Lemon-meringue. Sunkist Lemon Pie Company. 176,568; Nov. 27; Serial No. 178,576; published Sept. 18, 1923.
Pimientos, Pickled. Sylmar Packing Corporation. 176,541; Nov. 27; Serial No. 182,449; published Sept. 11, 1923.
Pork and beans, meat extracts, bouillon cubes, etc. Libby, McNeill & Libby. 176,503; Nov. 27; Serial No. 159,711; published July 31, 1923.
Poultry and eggs, Dressed. J. A. Shannon & Son. 176,508; Nov. 27; Serial No. 164,562; published Aug. 7, 1923.
Poultry and eggs, Live. Estate of Charles J. Fisk. 176,746; Nov. 27; Serial No. 176,020; published Aug. 14, 1923.
Relishes and condiments in the form of dressings and sauces, sandwiches, hash, etc. W. B. Cross. 176,733; Nov. 27; Serial No. 173,814; published Aug. 7, 1923.
Rolls and bread. Franco-American Baking Co. 176,463; Nov. 27; Serial No. 176,401; published Aug. 21, 1923.
Saccharine. H. G. Marshall. 176,818; Nov. 27.
Sauce, soy, packed miso, etc., Bottled and barreled. Asia Company. 176,738; Nov. 27; Serial No. 174,163; published July 24, 1923.
Spices. Thomas J. Webb Company. 176,796; Nov. 27.
Spices, bay leaves, cassia, cinnamon, etc. Hulman & Co. 176,722; Nov. 27; Serial No. 170,919; published Aug. 7, 1923.
Sugar. Utah-Idaho Sugar Company. 176,797; Nov. 27.
Tablets or cakes, Eatable. A. M. Delmas. 176,689; Nov. 27; Serial No. 167,557; published Sept. 11, 1923.
Tankage. E. Kahn's Sons Company. 176,745; Nov. 27; Serial No. 176,191; published Aug. 14, 1923.
Teas and coffees. Walrath & Co. 23,694; renewed Oct. 10, 1924.
Vanilla, tomato bouillon, etc., Bakers'. Keystone Fruit Products Company. 176,651; Nov. 27; Serial No. 143,501; published Aug. 28, 1923.
Vegetable shortening. Best Foods, Inc. 176,420; Nov. 27; Serial No. 182,198; published Sept. 11, 1923.
Yeast and vitamine food products. Northwestern Yeast Company. 176,509; Nov. 27; Serial No. 164,658; published Aug. 14, 1923.

CLASS 48.

Ale. Barclay & Co. 24,135; renewed Jan. 30, 1924.
Ale. Kops Brewery. 24,091; renewed Jan. 19, 1924.
Beer, Lager. Peter Hand Brewery Co. 24,057; renewed Jan. 16, 1924.
Beverage, Malt. Geo. Ringler & Co. 176,812; Nov. 27.

CLASS 50.

Covers, Transparent food. Fiber-Glass Food Cover Company. 176,739; Nov. 27; Serial No. 176,612; published Sept. 11, 1923.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 1.

Phenolic condensation product, Laminated. Diamond State Fibre Company. 183,439; Nov. 27.
Phenolic condensation product, Laminated. Diamond State Fibre Company. 183,442; Nov. 27.
Plants, Strawberry. R. M. Kellogg Co. 179,870–1; Nov. 27.

CLASS 2.

Ash, garbage, and oil cans; trash burners, etc. H. P. Chandlee Sons Co. 185,106; Nov. 27.
Bags, Mothproof. Roseth Corporation. 185,265; Nov. 27.
Tanks. E. W. Farley. 183,942; Nov. 27.
Tanks and settling basins. Kaustine Company. 177,086; Nov. 27.

CLASS 4.

Cleaner, also enamel cleaner, Furniture and automobile. J. A. Meinhardt. 180,875; Nov. 27.

CLASS 6.

Alteratives. Parke, Davis & Company. 184,180; Nov. 27.
Antiseptic and healing preparation. H. D. Clark. 183,962; Nov. 27.
Antiseptics and germicides. Parke, Davis & Company. 184,182; Nov. 27.
Aspirin tablets. J. T. Noell. 184,473; Nov. 27.
Baking powder and cream of tartar. Reid, Murdoch & Co. 184,422; Nov. 27.
Chemical preparations used for deodorizing and disinfecting. W. J. Howell. 185,252; Nov. 27.
Compound for treating eyelashes and eyelids. J. B. Gattaz. 184,130; Nov. 27.
Creams, powders, rouges, etc. Palmers, Limited. 184,292; Nov. 27.
Dyes and dyestuffs. Grasselli Chemical Company. 154,506; Nov. 27.
Glycerin and rose water, sweet spirits of niter, and turpentine. Warren P. Rash Co. 177,620; Nov. 27.
Hair, Liquid for preserving curls and Marcel wave in the. G. J. Petros. 184,039; Nov. 27.
Hair tonic. A. De Brûle. 183,961; Nov. 27.
Insecticide. I. D. Russell. 184,424; Nov. 27.
Insecticide. Standard Oil Company (New Jersey). 181,872; Nov. 27.
Insecticide preparation. B. Heller & Company. 184,131; Nov. 27.
Insecticides. Boll Weevil Destroyer Co. 184,322; Nov. 27.
Insecticides and fungicides. General Chemical Company. 183,967; Nov. 27.
Laxative herbal compound. B. E. Sherman. 184,106; Nov. 27.
Liniment and preparation for increasing growth of the hair. P. H. Colburn. 184,161; Nov. 27.
Medicine for treatment of syphilis. Parke, Davis & Company. 184,181; Nov. 27.
Medicine, Rheumatism. Blackburn Products Company. 181,473; Nov. 27.
Moth and insect preventive. Lawler-McCormick Co. 181,899; Nov. 27.
Perfume extract, toilet water, lotion, face powder, etc. L. T. Piver, Inc. 184,183; Nov. 27.
Perfumes, toilet water, face powders, etc. L. Philippe. 184,096; Nov. 27.
Perfumes, toilet waters, face and talcum powders, etc. George W. Button Corporation. 184,434; Nov. 27.
Powder, bath talcum, and perfume, Talcum and face. Lournay, Inc. 181,448; Nov. 27.
Powder, Talcum. T. B. Lamb. 176,483; Nov. 27.
Preparation for polishing and dyeing shoes and leather articles. L. F. Christman. 184,382; Nov. 27.
Preparations for germicidal, insecticidal, and deodorant purposes, etc. G. T. Wilson. 185,277; Nov. 27.
Salves and ointments. Endazoin Company. 184,026; Nov. 27.
Serum, Anti-hog-cholera. Anchor Serum Company. 184,053; Nov. 27.
Tablets, Cold. C. R. Birchfiel. 167,377; Nov. 27.
Vermin exterminators. M. Maillard. 184,033; Nov. 27.

CLASS 7.

Cables, sand lines, and cable-laid sand lines. Edwin H. Fitler Co. 185,012; Nov. 27.
Rope, Vegetable-fiber. Whitlock Cordage Co. 182,370; Nov. 27.

CLASS 8.

Perfume extracts, face powder, cleansing cream, etc., Essence of. A. M. Samson. 180,342; Nov. 27.

CLASS 10.

Tankage and fertilizer. S. Rauh & Sons Fertilizer Company. 184,762; Nov. 27.

CLASS 12.

Asphalt. Kentucky Rock Asphalt Company. 183,387; Nov. 27.
Brick. Simons Brick Company. 184,426; Nov. 27.
Slate, Roofing. John D. Emack Company. 179,034; Nov. 27.

CLASS 13.

Bathroom fixtures. C. F. Church Manufacturing Co. 181,111; Nov. 27.
Pipes, and bends, T's, Y's, and drainage traps. Eastern Foundry Company. 178,557; Nov. 27.

CLASS 14.

Steel, Tool. Peter A. Frasse & Co. 186,360; Nov. 27.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 15.

Candles. Standard Oil Company. 186,203; Nov. 27.
Candles. Standard Oil Company. 186,726; Nov. 27.
Candles. Standard Oil Company. 186,936; Nov. 27.
Gasoline. Central Ohio Oil Company. 174,126; Nov. 27.
Gasoline. L. J. Wilde. 183,784; Nov. 27.
Gasoline, naphtha, benzene, kerosene, etc. Spokane Wyoming Petroleum Company. 165,570; Nov. 27.
Kerosene. Associated Oil Company. 184,015; Nov. 27.
Oil, Machine. Marine Oil Company. 166,388; Nov. 27.
Oils and greases, Lubricating. Hot Point Oil & Supply Company. 184,854; Nov. 27.
Oils and greases, Lubricating. Motive Lubricant Corporation. 183,039; Nov. 27.
Oils and greases, Lubricating. U. S. Oil Company. 175,114; Nov. 27.
Oils, motor lubricating oils, and lubricants, Fuel. Barnsdall Refining Company. 158,560; Nov. 27.
Oils, Penetrating, lubricating. J. F. Platt. 155,069; Nov. 27.

CLASS 16.

Calcimines. Muralo Company. 183,398; Nov. 27.
Cleaning and polishing liquids. Motor Car Painting & Trimming Co. 186,441; Nov. 27.
Cleaning and polishing preparation. R. A. Oakley. 182,481; Nov. 27.
Cleanser and polish, Automobile. W. M. Myers. 185,306; Nov. 27.
Enamel and rubber paint, Black. National Compound Co. 179,313; Nov. 27.
Paint, Aluminum. S. Porcell. 158,193; Nov. 27.
Paints, Ready-mixed. R. F. Johnston Paint Company. 186,553; Nov. 27.
Stains, varnishes, fillers, and paints. Bridge-Sullivan Manufacturing Company. 183,249; Nov. 27.
Varnish, Uncolored. B. & T. Varnish Company. 184,113; Nov. 27.
Wood preservative. Paul Mende, Inc. 185,790; Nov. 27.

CLASS 17.

Cigarettes. L. J. Limper. 185,787; Nov. 27.
Cigars. A. E. McCall. 187,012; Nov. 27.
Cigars. C. H. Michael. 185,832; Nov. 27.

CLASS 19.

Automobile luggage carriers. Lanton Auto Equipment Company. 185,972; Nov. 27.
Boats. Electric Boat Company. 182,706; Nov. 27.
Busses and parts thereof, Motor. New York Transportation Co. 184,675; Nov. 27.
Golf-bag holders. Smith & Gregory. 177,525; Nov. 27.
Radiator caps, Automotive. Stewart-Warner Speedometer Corporation. 163,188; Nov. 27.
Taxicabs, Automobile. Yellow Cab Manufacturing Co. 178,794; Nov. 27.
Taxicabs, Automobile. Yellow Cab Manufacturing Co. 180,315; Nov. 27.
Vehicles, Cabs for. Sheet Steel Products Co. 184,686; Nov. 27.
Vehicles, Scuff and step plates for. Coast Specialty Sales Company. 180,689; Nov. 27.

CLASS 22.

Balls, Golf. Kaufmann Department Stores, Inc. 186,429; Nov. 27.
Balls, Squash. Automobile Proprietary, Limited. 186,686; Nov. 27.
Cards, Playing. H. H. Havard. 186,706; Nov. 27.
Fishing line. Ashaway Line & Twine Manufacturing Company. 182,494; Nov. 27.
Toy piano. North American Toy Co. 180,616; Nov. 27.

CLASS 23.

Bottle filling and capping machines, dairy machinery, etc. H. H. Miller Industries Company, The. 182,982; Nov. 27.
Check-indorsing machines. International Postal Supply Company of New York. 184,856; Nov. 27.
Check-indorsing machines. International Postal Supply Company of New York. 184,858; Nov. 27.
Handles, Tool. Hartwell Brothers. 182,908; Nov. 27.

CLASS 26.

Weighing apparatus and parts thereof. E. and T. Fairbanks and Company. 186,118; Nov. 27.

CLASS 28.

Beads, Specially-treated strings for. Esco Manufacturing Co. 183,101; Nov. 27.
Buttons, Collar. Krementz & Company. 181,194; Nov. 27.
Flatware and hollow ware, Sterling-silver. R. Wallace & Sons Mfg. Co. 185,350; Nov. 27.
Jewelry. Cohn & Rosenberger Inc. 182,652; Nov. 27.
Jewelry. H. Ratner. 181,413; Nov. 27.
Pearls. P. Roth. 185 381; Nov. 27.
Rings, Finger. Katz & Ogush. 181,126; Nov. 27.

CLASS 29.

Hairbrushes, nailbrushes, toothbrushes, etc. Van Vleet-Mansfield Drug Co. 186,729; Nov. 27.

CLASS 32.

Chairs, benches, stools, desks, and bookcases. Columbia School Supply Co. 184,714; Nov. 27.
Chairs, Office, household, and factory. W. S. Ferris. 183,102; Nov. 27.
Chests or cabinets, Display. Oneida Community Limited. 169,728; Nov. 27.
Crib, Collapsible baby. D. D. Comstock. 183,909; Nov. 27.
Desks, tables, stands, etc. Wagemaker Company. 183,867; Nov. 27.
Furniture, Children's. Selrite Products Inc. 162,319; Nov. 27.

CLASS 34.

Boilers, Steam and hot-water. Fitzgibbons Boiler Company. 186,121; Nov. 27.
Heating apparatus. General Gas Mantle Co. 185,354; Nov. 27.
Lamp wick. Gill Brothers Company. 184,665; Nov. 27.
Stoves. Kremer Metal Products Co. 183,303; Nov. 27.
Stoves, gas fireplace heaters, and incinerators. Guardian Gas Appliance Company. 184,852; Nov. 27.

CLASS 35.

Hose. Goodyear Tire & Rubber Company. 111,518; Nov. 27.
Tires. A. Grinberg. 179,468; Nov. 27.
Tires and tubes, Vehicle. Goodyear Tire & Rubber Company. 174,242; Nov. 27.

CLASS 38.

Bonds, coupons, certificate of stocks, etc., Vendible coupon. Prudence-Bonds Corporation. 177,924; Nov. 27.
Bonds, coupons, certificate of stocks, etc., Vendible coupon. Prudence-Bonds Corporation. 185,987–9; Nov. 27.
Lithographs. Niagara Lithograph Co. 168,484; Nov. 27.
Maps and printed road guides, Road. United States Survey Company. 170,800; Nov. 27.
Pamphlets published semimonthly. Level Club, Inc. 183,657; Nov. 27.
Periodical, Daily. Derrick Publishing Co. 183,435; Nov. 27.
Periodical, Weekly. Derrick Publishing Company. 183,436; Nov. 27.
Periodicals, Weekly. Leslie-Judge Company. 183,982; Nov. 27.

CLASS 39.

Apparel, Ladies' wearing. B. Goldwasser. 178,501; Nov. 27.
Boots and shoes. J. P. Hartray Shoe Co. 184,727; Nov. 27.
Boots and shoes, Leather. International Shoe Company. 183,707; Nov. 27.
Corsets. Bonwit Teller & Co. 185,172; Nov. 27.
Dresses, gowns, waists, skirts, etc. Miracle Dress Co. 176,564; Nov. 27.
Furs, Manufactured. A. Jaeckel & Co. 182,097; Nov. 27.
Hatbands. F. T. Martinez & Sons. 183,452; Nov. 27.
Hats. Dixie Maid Hat Company. 183,560; Nov. 27.
Hats. Dunlap & Co. 184,786; Nov. 27.
Hats. Geraldine Hat Co. 170,482; Nov. 27.
Hats and caps, Men's. Kassman & Kessner Inc. 184,943; Nov. 27.
Hats, Ladies'. Lowengart & Company. 184,208; Nov. 27.
Hats, Ladies'. Simon Millinery Supply Co. 182,726; Nov. 27.
Hosiery. Apter Co. 184,577; Nov. 27.
Hosiery. T. H. Brown. 175,978; Nov. 27.
Hosiery. Lehigh Silk Hosiery Mills, Inc. 164,927; Nov. 27.
Hosiery. Ben Levene Inc. 184,865; Nov. 27.
Hosiery. Triumph Hosiery Mills Inc. 185,543; Nov. 27.
Men's Wearing Apparel. Askin & Marine Company. 148,860–2; Nov. 27.
Overalls and work jackets. J. C. Penney Company. 182,483; Nov. 27.
Pumps, Hempen. N. Adot y Hno. 182,952; Nov. 27.
Rubber soles and heels. Panther Rubber Manufacturing Company. 183,539; Nov. 27.
Shirts, boys' blouses, and pyjamas. Phillips-Jones Corporation. 183,121; Nov. 27.
Shirts, collars, cravats, pyjamas, etc. Grosner, Milich Company. 180,700; Nov. 27.
Shirts, Dress. George P. Ide & Company. 166,832; Nov. 27.
Shoes. P. Goldsmith Sons Company. 184,284; Nov. 27.
Shoes. Wall, Streeter & Doyle Co. 184,807; Nov. 27.
Shoes, Leather. Pincus & Tobias Inc. 184,917; Nov. 27.
Shoes of leather, Men's. International Shoe Company. 183,297; Nov. 27.
Shoes, Women's leather. International Shoe Company. 184,970; Nov. 27.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Skirts; princess slips, combination corset cover and skirt, etc., Knit. E. L. Marshall. 157,385; Nov. 27.
Suits, Infants'. William Greilich & Sons, Inc. 178,098; Nov. 27.
Suspenders, arm bands, and men's belts. Marshall Field & Company. 165,942; Nov. 27.
Ties, shirts, suits, shoes, sweaters, etc. H. P. King Company. 184,615; Nov. 27.
Underwear for men, shirts, pants, etc. Carley, Rice Company. 176,600; Nov. 27.
Underwear, Ladies'. Loris Undergarment Co. 168,322; Nov. 27.
Underwear, Women's. H. Sacks. 158,736; Nov. 27.
Waterproof covers for hats and caps. Hodgman Rubber Company. 171,916; Nov. 27.

CLASS 40.

Combs. Julius Schmid, Inc. 186,674; Nov. 27.
Combs, barrettes, hairpins, safety pins, etc. S. Blechman & Son Inc. 184,160; Nov. 27.
Elastic goods, Braid. W. L. M. Clark Incorporated. 185,107; Nov. 27.
Hairpins. Abraham & Straus, Inc. 186,403; Nov. 27.
Hooks and eyes, safety and toilet pins. De Long Hook and Eye Company. 186,114; Nov. 27.
Needles, crochet hooks, and thimbles. American Wholesale Corporation (Baltimore Bargain Home). 180,262; Nov. 27.
Pins, Safety. C. H. Crowley. 185,074; Nov. 27.
Snap fasteners. C. H. Crowley. 185,075; Nov. 27.
Straps for connecting the supporting straps of ladies' undergarments, Cross. E. A. Robinson. 185,765; Nov. 27.
Webbing, Elastic. Ansonia O & C Co. 184,954; Nov. 27.

CLASS 44.

Manicure sets. J. Richter. 177,516; Nov. 27.
Massaging or tapping device, Manual facial. E. H. Treinies. 185,041; Nov. 27.

CLASS 45.

Beverage and sirup for making the same. C. E. Chapman. 181,434; Nov. 27.
Beverage, beverage sirup, and concentrate used as soft drink. National Chemical Products Co. 179,215; Nov. 27.
Beverage, Nonalcoholic, maltless. L. G. Leech. 186,512; Nov. 27.
Beverage sirup for soft drinks. J. P. Jones. 184,340; Nov. 27.
Beverage sold as a soft drink. W. R. Swett. 184,948; Nov. 27.
Beverage sold as soft drink and sirups used in preparation of same. Lyons Bros. Co. 172,751; Nov. 27.
Beverages, root beer and root beer extracts, and sirups for making soft drinks, Nonalcoholic. California Laboratories, Inc. 184,587; Nov. 27.

CLASS 46.

Banana jelly. D. Maronik. 185,980; Nov. 27.
Banana slices, Dried. D. Maronik. 185,981; Nov. 27.
Bread, butter, eggs, tea, etc. Wright & Parker Company. 184,778; Nov. 27.
Candies. C. S. Ball Candy Co. 185,856; Nov. 27.
Candies. H. Brune. 178,163; Nov. 27.
Candies. Sophie Mae Candy Corporation. 184,085; Nov. 27.
Candy. Alpine Chocolates Company. 146,194; Nov. 27.
Candy. A. G. Morse Co. 185,834; Nov. 27.
Candy bar, Chocolate-covered. Confection Products Inc. 185,818; Nov. 27.
Candy, Chocolate. Mueller-Keller Candy Company. 182,986; Nov. 27.
Canned berries and vegetables. Humbird Canning Co. 179,535; Nov. 27.
Canned fruits and vegetables. W. J. Dorgan. 186,271; Nov. 27.
Canned fruits and vegetables. Lucido Brothers Grocery Company. 182,159; Nov. 27.
Canned sardines. Coast Fishing Company. 185,919; Nov. 27.
Canned vegetables. Central Wholesale Grocers, Inc. 170,559; Nov. 27.
Canned vegetables and fruits, spices, flour, etc. H. A. Marr Grocery Co. 181,299; Nov. 27.
Chocolate. Suchard, S. A. 184,569–70; Nov. 27.
Chocolate coating. Washington Chocolate Co. 186,171; Nov. 27.
Chocolate pudding, powdered cocoa and chocolate and cocoa. Royal Cocoa Co. 136,388; Nov. 27.
Chocolates. Hershey Chocolate Company. 186,185; Nov. 27.
Cocoas, chocolates. A. & W. Lindt. 178,394–8; Nov. 27.
Coffee. Sunbury Wholesale Grocery Company. 186,090; Nov. 27.
Coffee and tea. Berdan Company. 167,863; Nov. 27.
Confection, Pop-corn. Barnards. 175,121; Nov. 27.
Confections. J. Ravizza. 183,852; Nov. 27.
Confections, etc., Frozen. Delico Products Company. 163,673; Nov. 27.
Gum, Chewing. Morton Gum Co. 185,932; Nov. 27.
Ice cream. Bunkie Ice Company. 185,105; Nov. 27.
Ice cream. Franklin Ice Cream Company. 183,649; Nov. 27.
Lard substitute. Wynne Lard & Provision Co. 170,461; Nov. 27.
Mayonnaise and Thousand Island salad dressing. I. H. Ragsdale. 176,282; Nov. 27.
Meringue and icing powder. R. J. Burgess. 162,536; Nov. 27.
Peanut butter. Newton Tea & Spice Co. 176,090; Nov. 27.
Pectin. A. Leo. 183,073; Nov. 27.
Potato chips and caramels. White Seal Potato Chip Co. 186,452; Nov. 27.
Spaghetti, spaghetti sauces, and cheese. P. A. Caporale. 181,936–8; Nov. 27.

CLASS 50.

Dress forms. Gummed Products Company. 182,537; Nov. 27.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 27TH DAY OF NOVEMBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abbott, Charles C., Pittsfield, Mass., assignor to General Electric Company. Electric heater. 1,475,162; Nov. 27.
Abtmeyer, Theodore. (See Johnson, C. W., and Abtmeyer.)
Adams, Elwin P., Jacksonville, Fla. Necktie. 1,475,672; Nov. 27.
Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Brake mechanism for car trucks. 1,475,733; Nov. 27.
Ahlbrecht, Gustave H., Newark, Ohio. Water power. 1,475,271; Nov. 27.
Albrecht, Frederick M., Stratford, Conn. Tappet silencer. 1,475,557; Nov. 27.
Albright, Andrew, jr., Maplewood, N. J. Lather brush. 1,475,673; Nov. 27.
Aldridge, Ernest W., Vinson, Okla. Mattress. 1,475,771; Nov. 27.
Allbin, Sim E., assignor to Mayer Life Boat Co. Inc., Seattle, Wash. Lifeboat release. 1,475,617; Nov. 27.
Allen, Robert, Woodcote, near Reading, England. Piston or piston valve. 1,475,772; Nov. 27.
Allen, Robert, Woodcote, Reading, England. Piston. 1,475,773; Nov. 27.
Allport, Henry W., Chicago, Ill. Pocket stove. 1,475,163; Nov. 27.
American Automatic Connector Company, The. (See Barber, Martin A., assignor.)
American Brake Shoe & Foundry Company, The. (See Nelson, Albert, assignor.)
American Bumper Company. (See McGowen, William R., assignor.)
American Gasaccumulator Company. (See Medén, Elof H., assignor.)
American Gauge Company. (See Harwood, John F., assignor.)
American Hardware Corporation. (See Henry, William K., assignor.)
American Lady Corset Company. (See Siegel, Joseph, assignor.)
American Steel Foundries. (See Floyd, George G., assignor.)
American Telephone and Telegraph Company. (See Bown, Ralph, assignor.)
American Telephone and Telegraph Company. (See Osborne, Harold S., assignor.)
American Telephone and Telegraph Company. (See Toomey, John F., assignor.)
Anderson-Barngrover Mfg. Co. (See Anderson, Elmer S., assignor.)
Anderson, Elmer S., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Prune dipper and grader. 1,475,419; Nov. 27.
Anderson, George D., Hastings, Nebr. Flexible translucent sheet. 1,475,774; Nov. 27.
Anderson, Julius, Minneapolis, Minn. Quick-action vise. 1,475,618; Nov. 27.
Andrioli, Vittorio, Schenectady, N. Y. Expanding crosshead shoe. 1,475,337; Nov. 27.
Anthon, John H., San Francisco Calif. Game. 1,475,734; Nov. 27.
Anthony, Thomas P., Edgewater Park, N. J. Method and apparatus for forming pipe molds. 1,475,217; Nov. 27.
Appleton, Ernest G., assignor to Chicago Fuse Mfg. Co., Chicago, Ill. Fuse plug. 1,475,558; Nov. 27.
Aptowicz, Leon, Yonkers, N. Y. Sled. 1,475,529; Nov. 27.
Arcadia Trailer Corporation. (See Burgess, Frank D., assignor.)
Archibald, Whitney A., Bellingham, Wash. Log-loading jack. 1,475,559; Nov. 27.
Armstrong, Louis E., Fort Dodge, Iowa. Plaster board. 1,475,674; Nov. 27.
Armstrong, Robert B., assignor to R. B. Armstrong and R. & W. Hawthorn Leslie & Company, Limited, Newcastle-on-Tyne, England. Gear-transmission device. 1,475,468; Nov. 27.
Armstrong, Robert B., et al. (See Armstrong, Robert B., assignor.)
Ashley, Frank R., Edgewater, Colo. Automatic gate-operating mechanism. 1,475,272; Nov. 27.
Atkinson, Thomas M., Cambridge, Mass., assignor to The Royston Paper Company, Milltown, N. J. Apparatus for and method of producing colored nature papers. 1,475,928; Nov. 27.
Atwater, David, Westfield, Mass. Union suit. 1,475,560; Nov. 27.
August, Johannes R. C., Halifax, England. Rivet or the like heating furnace. 1,475,218; Nov. 27.
Austin, Bascum O., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Resistor. 1,475,735; Nov. 27.
Automatic Electric Company. (See Martin, T. G., and Willis, assignors.)
Automatic Electric Company. (See Wicks, John, assignor.)
Automatic Refrigerating Company, The. (See Lundgaard, Ivar, assignor.)
Automatic Telephone Manufacturing Company. (See Hudd, Alfred E., assignor.)
Avon Sole Company. (See Cary, William H., assignor.)
Ayars, Charles H., assignor to Ayars Machine Company, Salem, N. J. Can-filling machine. 1,475,675; Nov. 27.
Ayars Machine Company. (See Ayars, Charles H., assignor.)
Ayers, Augustine R., and R. S. Miller, Cleveland, Ohio. Railway-freight-car door. 1,475,917; Nov. 27.
Babeuf, Louis P., Gravelbourg, Saskatchewan, Canada. Snap and buckle. 1,475,420; Nov. 27.
Bach, Nells P., Millburn, N. J., assignor to Perfect Vacuum Canning Company, New York, N. Y. Method of and apparatus for sealing containers. 1,475,469; Nov. 27.
Backus, Hubert V., assignor to L. A. Young Industries, Inc., Detroit, Mich. Wire-straightening machine. 1,475,736; Nov. 27.
Bailey, Banks & Biddle Company, The. (See Meell, George A., assignor.)
Bailey, Charles H., assignor to Fuller & Warren Co., Troy, N. Y. Combination coal and gas range. 1,475,775; Nov. 27.
Bailey, Sylvester H., Superior, Wis. Container. 1,475,776; Nov. 27.
Baker Casing Shoe Company. (See Baker, Reuben C., assignor.)
Baker, Reuben C., Coalinga, assignor to Baker Casing Shoe Company, Los Angeles, Calif. Pitman end. 1,475,531; Nov. 27.
Baker, Walter R. G., Schenectady, N. Y., assignor to General Electric Company. Signal-transmitting system. 1,475,164; Nov. 27.
Ballenger, John L., Greenville, S. C. Portable stair. 1,475,777; Nov. 27.
Barber, Martin A., Cleveland, Ohio, assignor, by mesne assignments, to The American Automatic Connector Company, Wyoming, Del. Removable nipple and gasket. 1,475,530; Nov. 27.
Bark, Benjamin, Isleworth, England. Lighting accessory for wickless burners or stoves. 1,475,778; Nov. 27.
Barker, James, Detroit, Mich. Index tab. 1,475,165; Nov. 27.
Barnes, Joseph B., Clark, Mo. Nut lock. 1,475,779; Nov. 27.
Barney, Edwin E., New Rochelle, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,475,619; Nov. 27.
Barnhart, William E., and M. E. Lohr, Johnstown, Pa. Concrete-block-molding machine. 1,475,532; Nov. 27.
Basini, Caleb R., Carteret, N. J. Window scaffold. 1,475,780; Nov. 27.
Bass, G. H., & Company. (See Meyer, Paul G., assignor.)
Bath, John, and H. F. Clifford, Worcester, Mass.; said Clifford assignor to said Bath. Combined reamer and tap. 1,475,561; Nov. 27.
Batterman, David W., Bird in Hand, Pa. Motor vehicle. 1,475,781; Nov. 27.
Bausch & Lomb Optical Company. (See Drescher, Theodore B., assignor.)
Beach, Henry L., New York, N. Y. Reminder signal. 1,475,782; Nov. 27.
Beall, Charles R., Swissvale, and R. M. Gilson, Pittsburgh, assignors to The Union Switch & Signal Company, Swissvale, Pa. Overload-circuit breaker. 1,475,166; Nov. 27.
Behnke, Leo R., Childress, Tex. Piston ring. 1,475,783; Nov. 27.
Belair, Albert, Montreal, Quebec, Canada. Shackle. 1,475,256; Nov. 27.
Bell, Harry L., and H. G. Coulson, assignors to Coeur d'Alene Hardware & Foundry Co., Incorporated, Wallace, Idaho. Centrifugal pump. 1,475,676; Nov. 27.
Berdix, Vincent, Chicago, Ill. Engine starter. 1,475,677; Nov. 27.

Benjamin Electric Manufacturing Company. (See Clarke, Albert E., assignor.)
Benois, Edouard P., Paris, France, assignor to Coty, Inc., New York, N. Y. Bottle. Des. 63,351; Nov. 27.
Benois, Edouard P., Paris, France, assignor to Coty, Inc., New York, N. Y. Bottle. Des. 63,352; Nov. 27.
Benois, Edouard P., Paris, France, assignor to Coty, Inc., New York, N. Y. Paper. Des. 63,353; Nov. 27.
Benois, Edouard P., Paris, France, assignor to Coty, Inc., New York, N. Y. Bottle. Des. 63,354; Nov. 27.
Bentkamp, August, New York, N. Y. Pompon. 1,475,784; Nov. 27.
Benzine Condensation Co. (See Boecler, Albert, assignor.)
Berberich, George. (See Berberich, Lorenz and G.)
Berberich, Lorenz and G., Pittsburgh, Pa. Broom. 1,475,620; Nov. 27.
Bergstrom, John, Dupont, Wash. Truck and attachment therefor. 1,475,785; Nov. 27.
Bernard, William A., assignor to The William Schollhorn Company, New Haven, Conn. Hand tool. 1,475,273; Nov. 27.
Bessinger, Frank F., Cleveland, Ohio. Piston ring. 1,475,366; Nov. 27.
Betulander, Gotthilf A., Villastad, and N. G. Palmgren, Stockholm, Sweden, assignors to The Relay Automatic Telephone Company, Limited, London, England. Circuit arrangement for telephone plants. 1,475,562; Nov. 27.
Beyer, Edward F. (See Ellison, C. F., and Beyer.)
Bihlmire, Otto L., Baroda, Mich., assignor, by mesne assignments, to Glidelite Mfg. Co., Chicago, Ill. Automobile radiator cap. Des. 63,355; Nov. 27.
Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Transformer-tank cover. 1,475,533; Nov. 27.
Bishop, George R., Cleveland, Ohio. Automobile top frame. 1,475,421; Nov. 27.
Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Plug receptacle. 1,475,678; Nov. 27.
Blake, Edward M., assignor to K. Bruchsaler, San Francisco, Calif. Conduit fastener for outlet boxes. 1,475,338; Nov. 27.
Blanfuss, George, Napa, Calif. Water filter. 1,475,534; Nov. 27.
Bliss, E. W., Company. (See Klocke, William, assignor.)
Blood, Harold L., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Click box. 1,475,274; Nov. 27.
Boddie, Clarence A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric regulator system. 1,475,737; Nov. 27.
Boecler, Albert, Malmo, Sweden, assignor to Benzine Condensation Co. Inc., New York, N. Y. Producing seamless articles of caoutchouc. 1,475,738; Nov. 27.
Bonel, Spiro S., Detroit, Mich., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Vehicle body construction and upholstery therefor. Re15,725; Nov. 27.
Bonine, Charles E., Melrose Park, and H. W. Stauffer, Manheim, assignors to J. H. Moseman, Lancaster, Pa. Milk-can-washing machine. 1,475,535; Nov. 27.
Bonine, Charles E., Melrose Park, and H. W. Stauffer, Manheim, assignors to J. H. Moseman, Lancaster, Pa. Machine for washing milk cans or similar receptacles. 1,475,536; Nov. 27.
Bonnard, Georges, Plombieres, St. Marcel, France. Refining tin and antimony. 1,475,422; Nov. 27.
Booth, James W. and T. C., Carlass, Keighley, England. Loom shuttle. 1,475,679; Nov. 27.
Booth, William N., Detroit, Mich. Driving lug for demountable rims of vehicle wheels. 1,475,167; Nov. 27.
Borkey, Stephen F., Detroit, Mich. Piston ring. 1,475,680; Nov. 27.
Borstelman, Henry L., Lyon Mountain, N. Y. Tonic-applying comb. 1,475,786; Nov. 27.
Bosco, George B., Chicago, Ill. Form clamp. 1,475,424; Nov. 27.
Bottone, Victor R., assignor of one-half to J. S. McAleer, Philadelphia, Pa. Connecter. 1,475,257; Nov. 27.
Boulter, Royal L., Los Angeles, Calif. Mechanism for sharpening razor blades. 1,475,367; Nov. 27.
Bourque, David, Rocky Hill, assignor to G. W. J. Murphy Company, Merrimac, Mass. Machine for drilling buttons. 1,475,787; Nov. 27.
Bowen, Michael B., assignor to Faries Manufacturing Company, Decatur, Ill. Lighting fixture. Des. 63,356; Nov. 27.
Bowman, Cornelius R., and C. E. Yates, Allentown, Pa. Locking device for carburetors. 1,475,275; Nov. 27.
Bown, Ralph, East Orange, N. J., assignor to American Telephone and Telegraph Company. Radio signaling system. 1,475,219; Nov. 27.
Brace, Porter H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for replenishing the electrolyte of electrolytic cells. 1,475,739; Nov. 27.
Brackett, George F., Sequim, Wash. Hoe. 1,475,362; Nov. 27.
Bradburn, Curtis E., and A. Finke, Garden City; said Bradburn assignor of his entire right to W. Wonn, Garden City, Kans. Brake. 1,475,538; Nov. 27.
Bradley, John H., Philadelphia, Pa. Crib. 1,475,537; Nov. 27.
Brandell, Claus O., Chicago, Ill. Block machine. 1,475,168; Nov. 27.
Brann, Alfred, Seattle, Wash. Violin. 1,475,423; Nov. 27.
Breul, Richard A., Bridgeport, Conn. Transformable walking stick. 1,475,740; Nov. 27.
Brewer, John F. (See Pyle, A. C., and Brewer.)
Brooks, Andrew J. (See King, O. M., and Brooks.)
Brooks, Benjamin T., Bayside, assignor to Mathieson Alkali Works, New York, N. Y. Purification of brines. 1,475,563; Nov. 27.
Brown, Christopher, Charlerol, Pa., assignor to Pittsburgh Plate Glass Company. Corner-rounding machine. 1,475,741; Nov. 27.
Brown, Christopher, Charlerol, Pa., assignor to Pittsburgh Plate Glass Company. Machine for smoothing and polishing bevels. 1,475,742; Nov. 27.
Brown, George H., Portland, Oreg. Drag saw. 1,475,788; Nov. 27.
Brown, James M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Clamp. 1,475,744; Nov. 27.
Brown, Omer, Connersville, Ind. Plowshare. 1,475,743; Nov. 27.
Brown, Spencer K., Syracuse, N. Y. Surface-finishing machine. 1,475,681; Nov. 27.
Bruchsaler, Karl. (See Blake, Edward M., assignor.)
Bryant Electric Company, The. (See Thomas, George R., assignor.)
Buchenberg, Alvin E., Toledo, Ohio. Generator. 1,475,918; Nov. 27.
Buckham, George T. (See Dawson, A. T., and Buckham.)
Buckley, Thomas A., Brooklyn, N. Y. Implement for cleaning teeth. 1,475,789; Nov. 27.
Buck's Stove & Range Company. (See Templeton, Jones T., assignor.)
Bundy, Harry W., Detroit, Mich. Manufacturing soldered tube. 1,475,258; Nov. 27.
Bünger, Anton M., Svendborg, Denmark. Axle for road vehicles. 1,475,745; Nov. 27.
Burgess, Frank D., assignor to Arcadia Trailer Corporation, Newark, N. Y. Draft gear for trailers. 1,475,425; Nov. 27.
Burkey, John L. (See Steeg, Frederick L., assignor.)
Burman, Eduard. (See de Graaf, C. jr., and Burman.)
Burt Machine Company. (See Wild, Charles H., assignor.)
Buttis, Charles S., Brooklyn, N. Y. Hanging wall. 1,475,559; Nov. 27.
Burtnett, Everett R., Los Angeles, Calif. Internal-combustion engine. 1,475,426; Nov. 27.
Butterworth, Samuel D., Lansing, Mich. Latch. 1,475,169; Nov. 27.
Butterworth, Samuel D., Lansing, Mich. Lock. 1,475,363; Nov. 27.
Cadwell, Helen. (See Moore, George L., assignor.)
Cain, Burtis U. (See Dannettell, Henry, assignor.)
Cairnes, John, South Norwood, England. Cushion tire of the chamber type. 1,475,427; Nov. 27.
Calagains, Bertha, et al. (See Calagains, Willie, assignor.)
Calagains, Hattie, et al. (See Calagains, Willie, assignor.)
Calagains, Lillian, et al. (See Calagains, Willie, assignor.)
Calagains, Lucile, et al. (See Calagains, Willie, assignor.)
Calagains, Pearl, et al. (See Calagains, Willie, assignor.)
Calagains, Willie, assignor to L. Calagains, L. Calagains, P. Calagains, H. Calagains, B. Calagains, and W. Calagains, Gary, Ind. Airplane. 1,475,790; Nov. 27.
Calagains, Williemae, et al. (See Calagains, Willie, assignor.)
Callista, James, Erie, Pa. Wrench and can opener. 1,475,791; Nov. 27.
Candy, Albert M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic lighting system. 1,475,746; Nov. 27.
Canfield, John A., assignor of one-half to Mac-Q Company, Inc., Collins, Miss. Potato cutter. 1,475,276; Nov. 27.
Carli, Vincenzo B., Boston, Mass. Parachute for airplanes. 1,475,792; Nov. 27.
Carmichael, Howard C., Indianapolis, Ind. Railway-crossing gate and signal. 1,475,682; Nov. 27.
Carrey, John O., assignor to Carrey Rotary Engine Company, St. Louis, Mo. Rotary air compressor. 1,475,683; Nov. 27.
Carrey Rotary Engine Company. (See Carrey, John O., assignor.)
Carrier Engineering Corporation. (See Lyle, J. I., and Lewis, assignors.)
Carter, Horace J., Wilmington, Del. Fabric piler. 1,475,428; Nov. 27.
Carter, Russell S., Hewlett, N. Y. Leaf spring and spring suspension. 1,475,170; Nov. 27.
Carter, William, Company, The. (See Redmond, Harriet L., assignor.)
Cartlidge, Frank, Terre Haute, Ind. Cutter chain and bars for mining machines. 1,475,364; Nov. 27.
Cary, William H., Brockton, Mass., assignor to Avon Sole Company, Avon, Mass. Shoe. 1,475,747; Nov. 27.
Case, Arthur F., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Material-handling apparatus. 1,475,684; Nov. 27.
Casgrain, Louis A., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel-breasting machine. 1,475,793; Nov. 27.

Casgrain, Louis A., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on heels. 1,475,794; Nov. 27.
Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon heels. 1,475,795; Nov. 27.
Cauthen, John W., Kannapolis, N. C. Stop motion for spinning frames. 1,475,220; Nov. 27.
Central Railway Signal Company. (See Dutcher, Frank, assignor.)
Chalus, Frank J. (See Folkman, Morris, assignor.)
Chapman, Edward H., Bethlehem, Pa. Tube-milling machine. 1,475,171; Nov. 27.
Chase Companies, Inc. (See Shea, Patrick J., assignor.)
Cheek, Henry M., Little Rock, Ark. Advertising machine. 1,475,540; Nov. 27.
Cheney, Forest, assignor to Cheney Talking Machine Company, Chicago, Ill. Tone-arm support. 1,475,277; Nov. 27.
Cheney Talking Machine Company. (See Cheney, Forest, assignor.)
Chicago Apparatus Co. (See Ernest, Thomas R., assignor.)
Chicago Fuse Mfg. Co. (See Appleton, Ernest G., assignor.)
Chicago Pneumatic Tool Co. (See Hoffman, Leon F., assignor.)
Chicago Railway Signal and Supply Company. (See McCarthy, Daniel J., assignor.)
Chicago Trust Company, trustee. (See Roberts, Arthur, assignor.)
Chilson, Sumner B., Minneapolis, Minn. Register for fluid dispensers. 1,475,368; Nov. 27.
Christensen, Emil, Portland, Oreg. Auto sponge spray. 1,475,748; Nov. 27.
Christophel, Carl E., assignor to Dexter Folder Company, Pearl River, N. Y. Sheet-separating mechanism. 1,475,621; Nov. 27.
Chubb, Lewis W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Testing device. 1,475,749; Nov. 27.
Cincinnati Frog and Switch Company, The. (See Henke, W. F., and Partington, assignors.)
Cirelli, Francesco, Philadelphia, Pa. Sound-reproducing machine. 1,475,541; Nov. 27.
Clark, George M., Battle Creek, Mich. Boat carrier for automobiles. 1,475,685; Nov. 27.
Clarke, Albert E., Des Plaines, assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Enameled-metal table top. Des. 63,357; Nov. 27.
Clemence, Walter S. (See Randall, Victor E., assignor.)
Clemens, William, and J. White, Philadelphia, Pa. Pipe-repair clamp. 1,475,254; Nov. 27.
Clement, Louis du P., Dover, assignor to Kent County Oil Corporation, Leipsic, Del. Compounded liquid fuel and producing the same. 1,475,259; Nov. 27.
Cleveland, Laverr, Mansfield, Ohio. Glove. 1,475,221; Nov. 27.
Clifford, Harry F. (See Bath, J., and Clifford.)
Clinkscale, Samuel C., Bonita, Kans. Plant digger. 1,475,686; Nov. 27.
Cloutier, George, Attleboro, Mass. Separable button. 1,475,750; Nov. 27.
Cobb, Freeman A., assignor, by mesne assignments, to National Vulcanized Fibre Co., Wilmington, Del. Coating or inking device. 1,475,687; Nov. 27.
Cobb, William F., Putney, Vt. Toy. 1,475,339; Nov. 27.
Coeur d'Alene Hardware & Foundry Co. (See Bell, H. L., and Coulson, assignors.)
Cohn, Alexander B., New York, N. Y. Friction drive for sewing machines. Re15,726; Nov. 27.
Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric iron. 1,475,751; Nov. 27.
Cole, Albert L., Auburndale, assignor to F. C. Parmenter, Gloucester, Mass. Fire extinguisher. 1,475,752; Nov. 27.
Cole, Lyndon C., Hamilton, Ohio, assignor to Niles-Bement-Pond Company, New York, N. Y. Pneumatic tool holder. 1,475,278; Nov. 27.
Colgny, Marjorie, New York, N. Y. Doll. Des. 63,358; Nov. 27.
Collins, Victor, assignor to Standard Gear Company, Detroit, Mich. Clutch. 1,475,564; Nov. 27.
Collis, O. D. (See Cushman, Everett B., assignor.)
Colman, Howard D., Rockford, assignor, by mesne assignments, to E. S. Nethercut, Evanston, Ill. Winder. 1,475,688; Nov. 27.
Conine, Frances G., Chicago, Ill. Hair curler. 1,475,796; Nov. 27.
Connelghton, Patrick H., South Norwood, Ohio. Pocket folder. 1,475,542; Nov. 27.
Conrad, Henry S., trustee. (See Lundquist, Frank A., assignor.)
Conrad, Isiah, Columbus, Ohio. Metal drawer structure. 1,475,797; Nov. 27.
Conrad, Isiah, Columbus, Ohio. Operating table. 1,475,798; Nov. 27.
Continental Can Company. (See Kronquest, Alfred L., assignor.)
Continental-Licht- und Apparatebau-Gesellschaft. (See Lüchli, Carl, assignor.)
Converse, Atherton D., Winchendon, Mass. Dancing doll. 1,475,222; Nov. 27.
Corby, Robert L., Chevy Chase, Md., and R. Glasgow, Pittsburgh, Pa., assignors, by mesne assignments, to The Fleischmann Company. Manufacturing yeast. 1,475,471; Nov. 27.
Corey, Matt M., assignor to R. D. Swisher Mfg. Co., Chicago, Ill. Tweezers. 1,475,689; Nov. 27.
Corlass, Thomas C. (See Booth, J. W., and Corlass.)
Cornell, Charles H. (See Hyatt, Ralph S., assignor.)
Costello, Matthew J., New York, N. Y. Scarf, stole, or muffler. Des. 63,359; Nov. 27.
Cothran, Walter S., assignor to Towers & Sullivan Manufacturing Co., Rome, Ga. Plow hitch. 1,475,799; Nov. 27.
Coty, Inc. (See Benois, Edouard P., assignor.)
Coughlin, William G., Philadelphia, Pa. Built-up tie. 1,475,429; Nov. 27.
Coulson, Harry G. (See Bell, H. L., and Coulson.)
Coulston, Harry, assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Stocking board. 1,475,753; Nov. 27.
Coulter, William J., Toronto, Ontario, Canada. Clothes reel. 1,475,369; Nov. 27.
Cox, Joseph L. (See Cox, Paul F., assignor.)
Cox, Paul F., assignor of one-half to J. L. Cox, Chicago, Ill. Printing press. 1,475,566; Nov. 27.
Cox, Paul F., Chicago, Ill. Stencil-addressing machine. 1,475,565; Nov. 27.
Crane, Joseph, Larned, Kans. Dump-header barge. 1,475,279; Nov. 27.
Creasy, Luther P., Catawissa, Pa. Dial. 1,475,800; Nov. 27.
Cribben & Sexton Company. (See Wilkinson, George D., assignor.)
Crone, Seth A., East Orange, N. J. Brake beam. 1,475,280; Nov. 27.
Crone, Seth A., East Orange, N. J. Locking key for brake shoes. 1,475,281; Nov. 27.
Crone, Seth A., East Orange, N. J. Locking key for brake shoes. 1,475,282; Nov. 27.
Crone, Seth A., East Orange, N. J. Railway brake beam. 1,475,283; Nov. 27.
Crone, Seth A., East Orange, N. J. Locking key for brake shoes. 1,475,284; Nov. 27.
Crone, Seth A., East Orange, N. J. Railway brake beam. 1,475,285; Nov. 27.
Crone, Seth A., East Orange, N. J. Railway-car brake. 1,475,286; Nov. 27.
Cross, Robert J. (See Kohman, H. A., Irvin, and Cross.)
Crouse-Hinds Company. (See Bissell, Carl H., assignor.)
Crystal Waxing Company, The. (See Moore, Charles S., assignor.)
Cuccia, Frank A. N., Brooklyn, N. Y. Mechanism for cutting and translating macaroni and the like. 1,475,801; Nov. 27.
Cummings, John D., Southington, Conn. Sound box. 1,475,754; Nov. 27.
Curwen, John S., Heversham, England. Advertising device or toy. 1,475,430; Nov. 27.
Cushman, Everett B., Topeka, Kans., assignor, by mesne assignments, to O. D. Collis, Clinton, Iowa. Auxiliary power carrier for vehicles. 1,475,223; Nov. 27.
Dall, Benjamin L., River Forest, Ill. Cigarette case. 1,475,567; Nov. 27.
Danckwortt, Thomas B., Seattle, Wash., assignor of one-half to J. Nicolaysen. Oil engine. 1,475,370; Nov. 27.
Dannettell, Henry, assignor of one-half to B. U. Cain, Evansville, Ind. Preparing coal for coking. 1,475,543; Nov. 27.
Davile, Carmine, Jersey City, N. J. Doll. Des. 63,360; Nov. 27.
Davis, Edward W., Atascadero, Calif. Stripping bar. 1,475,371; Nov. 27.
Davis, Harry A., Hopedale, Mass. Cloth roll for looms. 1,475,622; Nov. 27.
Davis, James D., Denver, Colo. Atomizer. 1,475,340; Nov. 27.
Davis, Joseph, Pittsburgh, Pa. Doorstop. 1,475,172; Nov. 27.
Davison, Gregory C., New London, Conn. Tractor wheel. 1,475,544; Nov. 27.
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance sighting apparatus. 1,475,472; Nov. 27.
Dawson, George H., Cambridge, Mass., assignor to Library Bureau, Alphabetical divider for card-index systems. 1,475,568; Nov. 27.
Day, Herbert W., Wollaston, assignor to Spray Engineering Company, Boston, Mass. Apparatus for applying coating. 1,475,372; Nov. 27.
Day, Mary A., Toledo, Ohio. Veil holder. 1,475,173; Nov. 27.
De Bijll Nachenius, Henri A. J., Haarlem, Netherlands. Vessel propelled by gas discharged below the water level. 1,475,393; Nov. 27.
Decker, Hugh L., assignor to The W. G. Nagel Electric Company, Toledo, Ohio. Electric measuring instrument. 1,475,174; Nov. 27.
De Graaf, Cornelis, jr., and E. Burman, assignors to Maatschappij tot Vervaardiging van Snijmachines volgens "Van Berkel's Patent" en van andere Werktuigen, Rotterdam, Netherlands. Weighing apparatus. 1,475,547; Nov. 27.
Delbos, Frank G., Brooklyn, N. Y. Shoe last. 1,475,690; Nov. 27.

De Orlow, Stephen, Detroit, Mich. assignor of one-half to H. J. Ulbrich, Skate. 1,475,224; Nov. 27.
Denley, Harvey H., Rochester, Pa. Construction of and method of operating heating furnaces. 1,475,373; Nov. 27.
Dever, Patrick J., Freeland, Pa. Shoe-soling tool. 1,475,287; Nov. 27.
Dexter Folder Company. (See Christophel, Carl E., assignor.)
Dickensheet, Earle H., San Francisco, Calif., assignor to Faultless Pneumatic Tire Company, Seattle, Wash. Tire construction. 1,475,225; Nov. 27.
Dickinson, Harry S., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Tractor cultivator. 1,475,226; Nov. 27.
Dies, Charles A., Chicago, Ill. Adjustable wrench. 1,475,755; Nov. 27.
Diescher, August P., Pittsburgh, Pa., assignor to S. Diescher & Sons. Expansion joint. 1,475,288; Nov. 27.
Diescher, August P., Pittsburgh, Pa., assignor to S. Diescher & Sons. Expansion joint. 1,475,289; Nov. 27.
Diescher, S., & Sons. (See Diescher, August P., assignor.)
Dodds, Ethan L., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. 1,475,474; Nov. 27.
Dodge, Earle D., Western Port, Md. Bumper for automobiles. 1,475,758; Nov. 27.
Dondero, John, Stockton, Calif. Pliers. 1,475,569; Nov. 27.
Dorey, William A., Newark, Ohio, assignor to Holophane Glass Company, Inc., New York, N. Y. Illuminating appliance. 1,475,260; Nov. 27.
Dorman, Morris, Baltimore, Md. Cloth-spreading machine. 1,475,802; Nov. 27.
Douglas, Paul H. (See Thomas, I. D., and Douglas.)
Douglas, Theodore, Scarboro, assignor to Duplex Engine Governor Company, Inc., Brooklyn, N. Y. Valve. 1,475,175; Nov. 27.
Drefahl, Louis C., Lakewood, and C. H. Sakryd, assignors to The Grasselli Chemical Company, Cleveland, Ohio. Arsenate of lime product and making same. 1,475,545; Nov. 27.
Drescher, Theodore B., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Lens and blank therefor and marking it for the purpose of identification. 1,475,473; Nov. 27.
Drumm, Paul H., West Frankfort, Ill. Ice-cream-receptacle-filling means. 1,475,803; Nov. 27.
Du Bois, Robert, and H. I. Jones, Stillwater, Okla. Preserving eggs. 1,475,804; Nov. 27.
Duddy, Edward H. (See Segur, H., and Duddy.)
Dunn, Edmund F., assignor to Alexander Smith & Sons Carpet Company, Yonkers, N. Y. Loom. 1,475,261; Nov. 27.
Duplex Engine Governor Company, Inc. (See Douglas, Theodore, assignor.)
Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal torpedo. 1,475,805; Nov. 27.
Duval, Harry E., Chicago, Ill., assignor to B. J. Shanley, trustee, Ottawa, Ill. Burial receptacle. 1,475,756; Nov. 27.
Dye, George R., Indianapolis, Ind. Packed wall construction. 1,475,570; Nov. 27.
Dyson, Robert G., Trooper, assignor to Franklin Air Compressor Works, Norristown, Pa. Regulator for air compressors. 1,475,757; Nov. 27.
Eaton, Harrison H., Beverly, Mass. Pipe cutter. 1,475,374; Nov. 27.
Edmunds & Jones Corporation. (See Godley, Charles E., assignor.)
Egan, William J., Geelong, Victoria, Australia. Baby carriage. 1,475,375; Nov. 27.
Egerton, Henry C., Ridgewood, N. J. Phonograph horn, etc. 1,475,623; Nov. 27.
Eihorn, Joseph, Louisville, Ky. Truss. 1,475,475; Nov. 27.
Ek, Edward M., Providence, R. I. Harness motion for looms. 1,475,476; Nov. 27.
Electric Arc Cutting and Welding Company. (See Flood, W. H., and Smout, assignors.)
Electric Water Sterilizer and Ozone Company. (See Hartman, Harry R., assignor.)
Electrical Engineers Equipment Company. (See Jacobs, Ernest H., assignor.)
Elliott, Elias L., New York, N. Y. Lens for vehicle lamps. 1,475,806; Nov. 27.
Ellis, Carleton, Montclair, N. J. Making fatty acid compounds. 1,475,477; Nov. 27.
Ellis, Robert J., Los Angeles, Calif. Vehicle direction indicator. 1,475,807; Nov. 27.
Ellison, Charles F., Cristobal, Panama, Canal Zone, and E. F. Beyer, New Orleans, La. Boat-launching device. 1,475,290; Nov. 27.
Elmac Specialties Corporation. (See Lalonde, Oscar V., assignor.)
Engle, Ira P., Ydalpon, Calif. Antiskid chain. 1,475,478; Nov. 27.
English, Ira T., Portland, Oreg. Bag closer. 1,475,759; Nov. 27.
English, William H., assignor to E. L. Miller, Pawtucket, R. I. Sinker for knitting machines. 1,475,176; Nov. 27.
Ensign, Emory S., Evanston, Ill. Antitheft plate for automobiles. 1,475,691; Nov. 27.
Erdbrügger, Gustav, Bad Oeynhausen, Germany, assignor, by mesne assignments, to A. Weber, New York, N. Y. Suction gas plant. 1,475,291; Nov. 27.
Ernest, Thomas R., assignor to Chicago Apparatus Co., Chicago, Ill. Gas tester. 1,475,571; Nov. 27.
Esnault-Pelterie, Robert, Paris, France. Means for regulating the output of pumps operated by the engines of automobiles or the like. 1,475,508; Nov. 27.
Evans, David, Burry Port, England. Automatically-acting and permanently-residing tube cleaner. 1,475,431; Nov. 27.
Faries Manufacturing Company. (See Bowen, Michael B., assignor.)
Farmer, Silas D., Herrin, Ill. Latch. 1,475,692; Nov. 27.
Faultless Pneumatic Tire Company. (See Dickensheet, Earle H., assignor.)
Fay, Carl J., Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Inclosed range-heating unit. 1,475,760; Nov. 27.
Ferencz, José, Curityba, Parana, Brazil. Roller-grinding machine. 1,475,693; Nov. 27.
Ferguson, Clarence J., Casper, Wyo. Talking-machine-needle holder. 1,475,227; Nov. 27.
Feth, William, Lima, Ohio. Mop holder. 1,475,479; Nov. 27.
Feybusch, Martin, New York, N. Y., and P. W. Fleischer, Weehawken, assignors to New Jersey Machine Corporation, Hoboken, N. J. Machine for wrapping boxes. 1,475,694; Nov. 27.
Fightmaster, Omer, San Francisco, Calif. Automobile headlight. 1,475,480; Nov. 27.
Fluke, August. (See Bradburn, C. E., and Fluke.)
Firestone Tire & Rubber Company, The. (See Putt, Edward D., assignor.)
Firkins, Arthur R., Tenbury, England. Scuffler for agricultural purposes. 1,475,376; Nov. 27.
Fischer, Kurt, Cologne-Braunsfeld, Germany, assignor to General Electric Company. Covering plate and insulating material for transfomers and other high-tension apparatus. 1,475,177; Nov. 27.
Fisher, Bessie M., administratrix. (See Fisher, George O.)
Fisher, Bessie M. (See Fisher, George O., assignor.)
Fisher Body Corporation. (See Simpson, Emory G., assignor.)
Fisher, George O., deceased; B. M. Fisher, administratrix, assignor to B. M. Fisher, Brooklyn, N. Y. Automatic gun. 1,475,761; Nov. 27.
Fisher, George O., deceased, New York; B. M. Fisher, administratrix, assignor to B. M. Fisher, Brooklyn, N. Y. Double-barreled shotgun. 1,475,262; Nov. 27.
Fitz Gerald, Judson H., Quantico, Va. Picture hanger. 1,475,292; Nov. 27.
Flannery Bolt Company. (See Dodds, Ethan L., assignor.)
Flauder, Alfred J., Bridgeport, Conn. Candlestick. Des. 63,361; Nov. 27.
Fleischer, Paul W. (See Feybusch, M., and Fleischer.)
Fleischmann Company, The. (See Corby, R. L., and Glasgow, assignors.)
Fleischmann Company, The. (See Kohman, H. A., Irvin, and Cross, assignors.)
Fleischmann Company, The. (See Wohl, Alfred, assignor.)
Fleming, James R., Scranton, Pa. Journal box. 1,475,377; Nov. 27.
Fleming, James R., Scranton, Pa. Journal-box seat. 1,475,378; Nov. 27.
Flemings, John A., Sharon, assignor to B. F. Sturtevant Company, Hyde Park, Mass. Underfeed stoker. 1,475,624; Nov. 27
Flintkote Company, The. (See Rahr, C. E., and Pollock, assignors.)
Flintkote Manufacturing Company. (See Overbury, Frederick C., assignor.)
Flood, Walter H., Tooting, London, and D. T. Smout, West Dulwich, London, England, assignors to Electric Arc Cutting and Welding Company, Newark, N. J. Electrode holder. 1,475,481; Nov. 27.
Floyd, George G., assignor to American Steel Foundries, Chicago, Ill. Railway-car truck. 1,475,178; Nov. 27.
Floyd, George G., assignor to American Steel Foundries, Chicago, Ill. Railway-car-truck arrangement. 1,475,179; Nov. 27.
Floyd, George G., assignor to American Steel Foundries, Chicago, Ill. Railway-car truck. 1,475,180; Nov. 27.
Folberth Auto Specialty Company, The. (See Folberth, Fred G. and W. M., assignors.)
Folberth, Fred G. and W. M., assignors to The Folberth Auto Specialty Company, Cleveland, Ohio. Windshield cleaner. 1,475,625; Nov. 27.
Folberth, William M. (See Folberth, Fred G. and W. M.)
Folkman, Morris, assignor of one-half to F. J. Chalus, Cleveland, Ohio. Button fastener. 1,475,479; Nov. 27.
Ford, Edward L., Youngstown, Ohio. Puddling. 1,475,762; Nov. 27.
Foreman, Samuel E., Paducah, Ky. Automatic carburetor control and indicator. 1,475,380; Nov. 27.
Forman, Paris R., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Safety mechanism for power-operated doors. 1,475,482; Nov. 27.
Foster, Joseph B., Roanoke, Va. Dental bridge. 1,475,808; Nov. 27.
Fowler, Victor M., Spokane, Wash. Direction indicator. 1,475,293; Nov. 27.
Francis, Frank, Winnipeg, Manitoba, Canada. Fuel saver. 1,475,809; Nov. 27.

Franklin Air Compressor Works. (See Dyson, Robert G., assignor.)
Franklin Baker Company, The. (See Tenney, D., and Walsh, assignors.)
Fraser, George, Leven, Scotland. Power hammer. 1,475,763; Nov. 27.
Frederick, Louis T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Composite article. 1,475,764; Nov. 27.
Fried. Krupp Aktiengesellschaft. (See Schmückling, August, assignor.)
Friedley Voshardt Co. (See Mohrmann, Paul, assignor.)
Frisz, George E., Indianapolis, Ind. Puller implement. 1,475,810; Nov. 27.
Fuller & Warren Co. (See Bailey, Charles H., assignor.)
Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Process of and machine for perforating. 1,475,181; Nov. 27.
Furr, Harry L., Harrisonburg, Va. Automobile signal. 1,475,811; Nov. 27.
Gage, Samuel, Holloway, London, assignor to The London General Omnibus Company Limited, Westminster, England. Slatted floor, deck, or the like. 1,475,765; Nov. 27.
Galeski, Joseph S., Richmond, Va. Lens-tool-grinding machine. 1,475,626; Nov. 27.
Gallagher, Frederick S., Yonkers, N. Y. Hopper-door-operating mechanism. 1,475,572; Nov. 27.
Galloway, Charles D. (See Kershaw, W. E., and Galloway.)
Galuska, John, Newark, N. J. Truck. 1,475,483; Nov. 27.
Gardner, Marshall B., Aurora, Ill. Fob ornament, locket, or similar article. Des. 63,362; Nov. 27.
Gardner, Walter A. (See Otis, S., and Gardner.)
Gaspari, Joseph, New York, N. Y. Eyeglasses. Des. 63,363; Nov. 27.
Gates, Joseph, East Pepperill, Mass. Thimble for use in conjunction with electric conductors. 1,475,627; Nov. 27.
Gebres, Hewitt A., Mount Vernon, Ohio. Compressor unit. 1,475,381; Nov. 27.
Gem Shirt Company, The. (See Naylor, Robert C., assignor.)
General Electric Company. (See Abbott, Charles C., assignor.)
General Electric Company. (See Baker, Walter R. G., assignor.)
General Electric Company. (See Fischer, Kurt, assignor.)
General Electric Company. (See Gosling, Joseph W., assignor.)
General Electric Company. (See Hoxie, Charles A., assignor.)
General Electric Company. (See Jones, Benjamin W., assignor.)
General Electric Company. (See Junggien, Oscar, assignor.)
General Electric Company. (See Langmuir, Irving, assignor.)
General Electric Company. (See Marshall, James E., assignor.)
General Electric Company. (See Warren, G. B., and Wirt, assignors.)
General Electric Company. (See Wirt, Harrison L., assignor.)
Gennevois, Emile, assignor to La Societe Anonyme des Elevateurs de Liquides "Chaine-Helice" Bessonuet-Favre, Chatellerault, France. Chain for elevating liquids. 1,475,382; Nov. 27.
George, Ollie C., Crystal Lake, Ill. Knockdown flower box and fernery. 1,475,573; Nov. 27.
Germot, Antonin, Asnieres, France. Direct recovery of metallic antimony. 1,475,294; Nov. 27.
Gesell, William H., Montclair, N. J. Edible product and making the same. 1,475,574; Nov. 27.
Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric system. 1,475,295; Nov. 27.
Gidelite Mfg. Co. (See Bihlmire, Otto L., assignor.)
Gielen, Peter G., Paterson, N. J. Harness mechanism for looms. 1,475,546; Nov. 27.
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy vehicle. 1,475,575; Nov. 27.
Gilchrist Company, The. (See Poplawski, Stephen J., assignor.)
Gilson, Robert M. (See Beall, C. R., and Gilson.)
Gingrass, Frank E., et al. (See Larson, Walter J., assignor.)
Glaser, Theodore C., Newark, N. J. Emblem. 1,475,484; Nov. 27.
Glasgow, Ruth. (See Corby, R. L., and Glasgow.)
Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Signal lamp. 1,475,296; Nov. 27.
Goff, Newel D., Providence, R. I. Air heater for furnaces. 1,475,228; Nov. 27.
Golden, Sidney, Altrincham, assignor to G. F. Jarvis, London, England. Means for controlling and reversing ships provided with propellers. 1,475,695; Nov. 27.
Goldman, Samuel W. (See Hirshstein, Joseph, assignor.)
Goldschmidt, Robert B., Paris, France. Wireless selection system. 1,475,297; Nov. 27.
Good, Stephen, Cleveland, Ohio. Combined curtain pole and shade holder. 1,475,576; Nov. 27.
Goodyear Tire & Rubber Company, The. (See Harsel, William B., assignor.)
Goodyear Tire & Rubber Company, The. (See Kraft, Herman T., assignor.)
Goodyear Tire & Rubber Company. (See Upson, Ralph H., assignor.)
Goold-Adams, Henry, and J. Mitchell, London, England. Coupler for railway and like vehicles. 1,475,812; Nov. 27.
Gordon, Clarence S., assignor to R. R. McDaniels, Los Angeles, Calif. Combined bending machine and vise. 1,475,813; Nov. 27.
Gordon, Hayner H., Washington, D. C., assignor to Industrial Research Corporation, Toledo, Ohio. Starting mechanism for internal-combustion engines. 1,475,485; Nov. 27.
Gosling, Joseph W., Schenectady, N. Y., assignor to General Electric Company. Standard for lighting fixtures. Des. 63,364; Nov. 27.
Gottschalk, Frederick C., New York, N. Y. Duplicating roll. 1,475,263; Nov. 27.
Gow, Charles R., assignor to Charles R. Gow Company, Boston, Mass. Constructing foundation columns and the like. 1,475,696; Nov. 27.
Gow, Charles R., Company. (See Gow, Charles R., assignor.)
Gowan, Sydney, Sale, and L. Miller, Whitefield, England, assignors to Westinghouse Electric & Manufacturing Company. Electrically-driven planer and the like. 1,475,766; Nov. 27.
Graham Glass Company, The. (See Graham, Robert C., assignor.)
Graham, Robert C., Washington, Ind., assignor to The Graham Glass Company, Evansville, Ind. Bottle. Des. 63,365; Nov. 27.
Grasselli Chemical Company, The. (See Drefahl, L. C., and Sakryd, assignors.)
Gravel, David, assignor to The Standard-Coosa-Thatcher Company, Chattanooga, Tenn. Yarn clearer. 1,475,814; Nov. 27.
Green, James A., assignor to Turner & Seymour Manufacturing Company, Torrington, Conn. Egg beater. 1,475,767; Nov. 27.
Green, Walter H., assignor to International Filter Co., Chicago, Ill. Filter. 1,475,577; Nov. 27.
Greenheck, Anton. (See Greenheck, William and A.)
Greenheck, William and A., Lone Rock, Wis. Evener or draft equalizer. 1,475,486; Nov. 27.
Groth, Fred P. (See Kilmer, E. E., and Groth.)
Guarantee Liquid Measure Company. (See MacKenzie, George W., assignor.)
Guglielmello, Salvatore, Worcester, Mass. Boot-blacking machine. 1,475,298; Nov. 27.
Gunderson, Gunder H., Fairchild, Wis. Starter for explosive engines. 1,475,815; Nov. 27.
Gundlach, Henry G., Brooklyn, N. Y. Tool for calking. 1,475,264; Nov. 27.
Gunzel, Arno, et al. (See Paffrath, Paul C. J., assignor.)
Hadfield, Robert A., Westminster, and A. G. M. Jack, Sheffield, England. Projectile. 1,475,578; Nov. 27.
Hall, Henry A., New York, N. Y. Scraping and cutting tool. 1,475,816; Nov. 27.
Hall, Nathaniel J., Seattle, Wash. Dairy-bottle cap. 1,475,383; Nov. 27.
Hamilton, Frank. (See Sturgis, Herbert M., assignor.)
Hamilton Trust Company, executor. (See Potthoff, Louis.)
Hamilton, Van, El Dorado, Kans. Pump barrel. 1,475,817; Nov. 27.
Hammond, Robert J., London, England. Adjustable clamp for rubber pipes and the like. 1,475,487; Nov. 27.
Hampson, Alfred E. (See Smith, C. H., and Hampson.)
Handel-Maatschappij H. Albert de Bary & Co. (See Hildebrand, Wilhelm, assignor.)
Hanes, James G., Winston-Salem, N. C. Knitting-machine needle. 1,475,182; Nov. 27.
Hanley, John W., New York, N. Y. Game board. Des. 63,366; Nov. 27.
Hansen, Severin T. (See Rasmussen, Thorvald, assignor.)
Hanson, Alfred, sr., Yonkers, N. Y. Yarn-printing machine. 1,475,628; Nov. 27.
Hanson, Sigvort, assignor to Racine Dispenser Manufacturing Company, Racine, Wis. Dispensing machine. 1,475,341; Nov. 27.
Harlan, Milton J., Chicago, Ill. Device for forming chocolates. 1,475,579; Nov. 27.
Harloe, Morton, assignor to The Harloe Tire Company, Inc., Winchester, Va. Resilient wheel. 1,475,488; Nov. 27.
Harloe Tire Company, The. (See Harloe, Morton, assignor.)
Harmon, William O., La Pryor, Tex. Foot scraper. 1,475,818; Nov. 27.
Harrigan, Patrick J., Chicago, Ill. Railway tie. 1,475,299; Nov. 27.
Harsel, William B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Cord tire and making same. 1,475,300; Nov. 27.
Hartman, Arthur C., assignor to Omaha Accessory Company, Omaha, Nebr. Contact for timers. 1,475,819; Nov. 27.

Hartman, Arthur C., assignor to Omaha Accessory Company, Omaha, Nebr. Tuner. 1,475,820; Nov. 27.

Hartleb, Rudolph C., Cambridge, assignor of one-half to E. Reiner, Baltimore, Md. Knife. 1,475,301; Nov. 27.

Hartman, Harry B., Scottdale, Pa., assignor to Electric Water Sterilizer and Ozone Company. Fluid-pressure-actuated switch valve. 1,475,697; Nov. 27.

Harvie, Herbert E., et al. (See Larson, Walter J., assignor.)

Harwood, John F., assignor to American Gauge Company, Incorporated, New York, N. Y. Tank cap. 1,475,183; Nov. 27.

Hassler, Robert H., Indianapolis, Ind. Vehicle shock-absorbing system. 1,475,384; Nov. 27.

Hawkins, William W., Brooklyn, N. Y., assignor to Webster Electric Company, Racine, Wis. Ignition system. 1,475,184; Nov. 27.

Hawthorn, R. & W., Leslie & Company et al. (See Armstrong, Robert B., assignor.)

Hay, John A., New Philadelphia, Ohio. Cotter-pin tool. 1,475,821; Nov. 27.

Haynes, Harold L., assignor of one-half to H. J. Walser, Cleveland, Ohio. Escapement mechanism. 1,475,629; Nov. 27.

Hecht, Heinrich, and F. Schenkelberger, Kiel, Germany. Subaqueous sound-signal transmitter. 1,475,385; Nov. 27.

Heimerman, Servatius, Chilton, Wis. Chimney cleaner. 1,475,229; Nov. 27.

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. 1,475,823; Nov. 27.

Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical system. 1,475,822; Nov. 27.

Henderson, William F., Kempton, Ind. Spring hitch. 1,475,230; Nov. 27.

Henke, William F., Norwood, and C. H. Partington, assignors to The Cincinnati Frog and Switch Company, Cincinnati, Ohio. Spring connecting rod for switch throws. 1,475,386; Nov. 27.

Henker, Otto, assignor to the Firm Carl Zeiss, Jena, Germany. Apparatus for the objective measurement of the refractive value of the principal point of the eye. 1,475,698; Nov. 27.

Henley, Robert R., Washington, D. C., dedicated, by mesne assignments, to the people of the United States. Clarified serum antitoxin and making the same. 1,475,580; Nov. 27.

Henry, William K., assignor to The American Hardware Corporation, New Britain, Conn. Door closer. 1,475,581; Nov. 27.

Herbert, Fred T., sr., Wyoming, Del. Mechanical coursing device. 1,475,824; Nov. 27.

Herbst, Charles, assignor to A. Herz, Chicago, Ill. Thermally-controlled circuit breaker. 1,475,631; Nov. 27.

Herty, Daniel J., Revere, Mass. Flush tank. 1,475,582; Nov. 27.

Herty, Harold R., New Orleans, La. Protective device for radio receiving systems. 1,475,632; Nov. 27.

Herz, Alfred, Chicago, Ill. Thermally-controlled circuit breaker. 1,475,630; Nov. 27.

Herz, Alfred. (See Herbst, Charles, assignor.)

Hetu, Louis, Woonsocket, R. I. Protective liquid holder. 1,475,825; Nov. 27.

Hicks-Obenour Company. (See Hicks, Trustin C., assignor.)

Hicks, Trustin C., assignor to Hicks-Obenour Company, Pittsburgh, Pa. Dishwashing machine. 1,475,489; Nov. 27.

Hildebrand, Wilhelm, Berlin, Germany, assignor to Handel-Maatschappij H. Albert De Bary & Co. Amsterdam, Netherlands. Valve for single-chamber air-pressure brakes. 1,475,432; Nov. 27.

Hilferink, Herman, Grand Rapids, Mich. Air standard. 1,475,397; Nov. 27.

Hillman, Henry G., New York, N. Y. Car system. 1,475,699; Nov. 27.

Hirshstein, Joseph, assignor of one-half to S. W. Goldman, Cleveland, Ohio. Insert for floors, walls, and the like. 1,475,342; Nov. 27.

Hitchcock, Levi, Meridale, N. Y. Tire armor. 1,475,302; Nov. 27.

Hogarty, Leo J., Brooklyn, N. Y. Securing device. 1,475,827; Nov. 27.

Hoffman, Henry R., Chicago, Ill. Automatic gear shift and speed control. 1,475,265; Nov. 27.

Hoffman, Leon F., Franklin, Pa., assignor to Chicago Pneumatic Tool Co., New York, N. Y. Valve for air pumps and means for actuating same. 1,475,826; Nov. 27.

Holmes, Allan T., Philadelphia, Pa. Sheet-metal construction. 1,475,387; Nov. 27.

Holmes, Harry A., Aurelia, Iowa. Punching machine. 1,475,828; Nov. 27.

Holophane Glass Company. (See Dorey, William A., assignor.)

Holton, Edward C. (See O'Boyle, M. J., and Holton.)

Hopper, Henry, Kosario, Argentina. Safety-razor-blade holder. 1,475,231; Nov. 27.

Houtz, Edward H. (See Morris, A., and Houtz.)

Hoxie, Charles A., Schenectady, N. Y., assignor to General Electric Company. Variable-current generator. 1,475,583; Nov. 27.

Hudd, Alfred E., assignor to Automatic Telephone Manufacturing Company Limited, Liverpool, England. Railway signaling system. 1,475,388; Nov. 27.

Hudson, Finn S., Kansas City, Mo., and E. G. Rhoads, Oak Park, Ill. Controller for fuel-oil burners. 1,475,433; Nov. 27.

Hulting, Charles E. (See Perry, N. G., and Hulting.)

Humeston, Frederick L., assignor to Winchester Repeating Arms Company, New Haven, Conn. Handlamp switch. 1,475,584; Nov. 27.

Humphreys, Frank W., Ocean City, N. J. Extension plane. 1,475,700; Nov. 27.

Hunt, Edward J., Llewelyn Park, West Orange, N. J. Dehydrating oil container. 1,475,548; Nov. 27.

Hyatt, Ralph S., assignor of one-half to C. H. Cornell, Valentine, Nebr. Hydraulic turbine. 1,475,389; Nov. 27.

Ihrig, Eugene E., and W. H. Schneider, assignors to Unit Coin Device Manufacturing Corporation, Pittsburgh, Pa. Coin holder. 1,475,829; Nov. 27.

Imler, Albert E., Kaikaska, Mich. Tractor hitch. 1,475,390; Nov. 27.

India Rubber Company. (See Welda, Harry, assignor.)

Industrial Research Corporation. (See Gordon, Hayner H., assignor.)

Ingels, Clarence W., Washington, D. C. Apparatus for measuring intervals of time. 1,475,232; Nov. 27.

Ingle, Arthur H. (See Trosch, Alfred, assignor.)

International Filter Co. (See Green, Walter H., assignor.)

Interstate Iron and Steel Company. (See Kilmer, E. E., and Groth, assignors.)

Interstate Window Glass Company. (See Walter, Hugo J., assignor.)

Irons & Russell Company. (See Russell, Albert I., assignor.)

Irvin, Roy. (See Kohman, H. A., Irvin, and Cross.)

Israel, Sidney M., Woodhaven, N. Y. Adjustable support for electric-light candles. 1,475,768; Nov. 27.

J. G. Brill Company, The. (See Adams, Walter S., assignor.)

Jack, Alexander G. M. (See Hadfield, R. A., and Jack.)

Jacobs, Ernest H., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Switch. 1,475,549; Nov. 27.

James, William. (See Meyer, S. M., and James.)

Jameson, William P., Santa Ana, Calif. Device for replacing valve-stem guides for automobiles. 1,475,830; Nov. 27.

Jaquette, Grantham, Philadelphia, Pa. Meat-slicing machine. 1,475,391; Nov. 27.

Jaquette, Grantham, Philadelphia, Pa. Meat-slicing machine. 1,475,392; Nov. 27.

Jarvis, George F. (See Golden, Sidney, assignor.)

Jarvis, William B., Grand Rapids, Mich. Water gauge for automobile radiators. Des. 63,367; Nov. 27.

Jensen, Fred S., New Richland, Minn. Memorandum device. 1,475,303; Nov. 27.

Jew Yam Yee. (See Krase, Herbert J., assignor.)

Jinks, Edward C. (See McGhee, James W., assignor.)

John, Griffith, Yonkers, N. Y., assignor to Sundh Engineering and Machine Company, Philadelphia, Pa. Slack-cable device. 1,475,701; Nov. 27.

Johnson, Charles W., and T. Abtmeyer, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Measuring device. 1,475,831; Nov. 27.

Johnson, James W., New Brunswick, N. J. Cap for collapsible tubes. Des. 63,368; Nov. 27.

Johnson, William A., Chicago, Ill. Tire protector. 1,475,266; Nov. 27.

Johnson, William A., Yonkers, assignor of one-half to Pearson Products Corporation, New York, N. Y. Pin. 1,475,702; Nov. 27.

Johnston, John, Chicago, Ill. Combined light and signal device. 1,475,343; Nov. 27.

Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Automatic motor starter. 1,475,185; Nov. 27.

Jones, Frederic P., Seacombe, England. Manufacture of bricks. 1,475,832; Nov. 27.

Jones, Hilton I. (See Du Bois, R., and Jones.)

Jones, Parker J., Chicopee, Mass. Combined loom shuttle-box front guard and guide plate. 1,475,633; Nov. 27.

Jordan, Fred A., Duluth, Minn. Magnetic ore separator. 1,475,394; Nov. 27.

Joseph, Carl, Bayonne, assignor of one-half to F. J. Kloes, Jersey City, N. J. Awning worm-gear-operating device. 1,475,233; Nov. 27.

Joyce, Bryan P., Davenport, Iowa. Means for securing trunnions to cradle forgings. 1,475,186; Nov. 27.

Joyce-Cridland Company, The. (See Ripsch, Charles W., assignor.)

Joyner, Clifford A., Muncie, Ind. Boat-propelling device. 1,475,833; Nov. 27.

Judson, Albert O., Columbus, Ohio. Spring bushing. 1,475,344; Nov. 27.

Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. 1,475,267; Nov. 27.

Kadel, Byers W., Baltimore, Md. Railway car. 1,475,187; Nov. 27.

Kadow, Walter E., Puyallup, Wash. Spoke wrench. 1,475,834; Nov. 27.

Karl, Charles L. B. (See Karl, Julius E., C. L. B., and J. D.)

Karl, Joseph D. (See Karl, Julius E., C. L. B., and J. D.)

Karl, Julius E., C. L. B., and J. D., Peoria, Ill. Oil gauge for internal-combustion engines. 1,475,268; Nov. 27.

Karlson, Henry C. (See MacInnes, Jesse, assignor.)

Kassander, Leopold, assignor to Nuthan Manufacturing Company, New York, N. Y. Oil cup. 1,475,703; Nov. 27.

Katzman, Max, Los Angeles, Calif. Display case. Des. 63,369; Nov. 27.

Kauffman, Walter L., 2d, Youngstown, Ohio. Automobile brake control. 1,475,491; Nov. 27.

Kaufmann, Jacob, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Bobbin. 1,475,704; Nov. 27.

Kautzky, Rudolph H., Des Moines, Iowa. Draft control structure for locomotive engines. 1,475,835; Nov. 27.

Keenan, Walter F., jr., assignor to Power Specialty Company, New York, N. Y. Safety joint for high-pressure gas apparatus. 1,475,705; Nov. 27.

Keeney, William A., Hartford, Conn. Floor or ceiling plate. 1,475,188; Nov. 27.

Kell, Frank. (See Overbaugh, C. G., and Kell.)

Kellogg, Charles A., Los Angeles, Calif. Spring crank holder for automobiles. 1,475,836; Nov. 27.

Kellogg, Chester A. (See Schueler, J. L., and Kellogg.)

Kellogg Switchboard and Supply Company. (See Yanochowski, George A., assignor.)

Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Car coupler. 1,475,634; Nov. 27.

Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Car coupler. 1,475,635; Nov. 27.

Kelly-Springfield Tire Company. (See Waters, Reginald H., assignor.)

Kendrick, Dyer T., Worcester, Mass., assignor to Livermore & Knight Company, Providence, R. I. Card-stringing machine. 1,475,395; Nov. 27.

Kent County Oil Corporation. (See Clement, Louis du P., assignor.)

Kent, William E., Los Angeles, Calif. Auxiliary air-inlet valve for carburetors. 1,475,837; Nov. 27.

Kerestes, George A., assignor to Novelty Amusement Co., Pittsburgh, Pa. Target apparatus. 1,475,493; Nov. 27.

Kershaw, William E., and C. D. Galloway, Philadelphia, Pa. Secondary or storage battery. 1,475,434; Nov. 27.

Kestner, Paul, Boulogne-sur-Seine, France. Treating water. 1,475,396; Nov. 27.

Kielsmeier, Otto A., Manitowoc, Wis. Cheese-making apparatus. 1,475,398; Nov. 27.

Killmaster, Ernest A. (See Overbaugh, C. G., and Kell, assignors.)

Kilmer, Elmer E., and F. P. Groth, assignors to Interstate Iron and Steel Company, Chicago, Ill. Wire-block stripper. 1,475,435; Nov. 27.

Kilmer, Elmer E., and F. P. Groth, assignors to Interstate Iron and Steel Company, Chicago, Ill. Wire-block stripper. 1,475,436; Nov. 27.

King, Alma. (See King, Walter G., assignor.)

King, Henry R. (See Mitchell, W., and King.)

King, John J. (See Skinner, W. L., and King.)

King, John O. (See Pohl, Charles, assignor.)

King, Oliver M., and A. J. Brooks, St. Joseph, Mo., assignors, by direct and mesne assignments, to The Standard Oil Company. Air-hose protector. 1,475,269; Nov. 27.

King, Walter G., assignor of one-half to A. King, Oak Park, Ill. Coin-dispensing device. 1,475,585; Nov. 27.

Klocke, William, Woodhaven, assignor to E. W. Bliss Company, Brooklyn, N. Y. Press having spring-pressed blank holders. 1,475,437; Nov. 27.

Kloes, Frenderick J. (See Joseph, Carl, assignor.)

Kohman, Henry A., R. Irvin, and R. J. Cross, Pittsburgh, Pa., assignors, by mesne assignments, to The Fleischmann Company. Manufacture of yeast. 1,475,494; Nov. 27.

König, Albert, assignor to the Firm Carl Zeiss, Jena, Germany. Telemeter. 1,475,706; Nov. 27.

Kopp, Hugo, New York, N. Y. Fraud-prevention means for gasoline pumps. 1,475,707; Nov. 27.

Koziel, John, Rothschild, Wis. Grinding machine. 1,475,495; Nov. 27.

Kraft, Herman T., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Inflating mechanism for aircraft. 1,475,304; Nov. 27.

Krase, Herbert J., Clarendon, Va., and Jew Yam Yee, Washington, D. C. Hydrated calcium nitrate and making same. 1,475,492; Nov. 27.

Krebs, Adolf, Jamaica Plain, Mass. Method and appliance useful in producing welded joints. 1,475,189; Nov. 27.

Kronquest, Alfred L., Chicago, Ill., assignor to Continental Can Company, Syracuse, N. Y. Can-body maker. 1,475,399; Nov. 27.

Kruse, Ferdinand, Port Richmond, N. Y. Meat press and ejector. 1,475,400; Nov. 27.

Laflame, Achille, Lawrence, Mass. Bobbin-transferring mechanism. 1,475,438; Nov. 27.

Lalonde, Oscar V., assignor to Elmac Specialties Corporation, New York, N. Y. Protective book cover. 1,475,586; Nov. 27.

Lamassiaude, Jean, Limoges, France. Heat-utilizing apparatus. 1,475,439; Nov. 27.

Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Hinge for oven doors. 1,475,838; Nov. 27.

Lambert, Thomas B., and L. E. Lively, Spokane, Wash. Nut for guitars and similar instruments. 1,475,345; Nov. 27.

Landers, Frary & Clark. (See Lamb, Joseph F., assignor.)

Langmuir, Irving, Schenectady, N. Y., assignor to General Electric Company. Sound-detecting device. 1,475,190; Nov. 27.

Lapovsky, Abraham. (See Ward, Edward C., assignor.)

Larson, Walter J., assignor of one-fourth to F. E. Gingrass and one-fourth to H. E. Harvie, Wrangell, Alaska. Internal-combustion engine. 1,475,440; Nov. 27.

La Societe Anonyme des Elevateurs de Liquides "Chaine-Helice" Bessonnet-Favre. (See Gennevois, Emile, assignor.)

Läuchli, Carl, Dubendorf, near Zurich, Switzerland, assignor to the Firm Continental-Licht- und Apparatebau-Gesellschaft, Frankfurt-on-the-Main, Germany. Gas generator. 1,475,496; Nov. 27.

Leach, John J., Indian Orchard, Mass. Gate valve. 1,475,191; Nov. 27.

Leatherman, Robert L., and A. M. Yockey, Mount Pleasant, Pa. Folding table. 1,475,401; Nov. 27.

Leblanc, Maurice, assignor to Ste. Anonyme Pour l'Exploitation de Procedes Westinghouse Leblanc, Paris, France. Exhaust arrangement for steam ejectors. 1,475,441; Nov. 27.

Leitman, Louis, Mount Vernon, N. Y. Vegetable grater. 1,475,839; Nov. 27.

Leonard, Joseph E., Indianapolis, Ind. Kitchenette stove and cabinet. 1,475,587; Nov. 27.

Lepley, Daniel F., Connelsville, Pa. Overturning cage. 1,475,636; Nov. 27.

Lepley, Daniel F., Connelsville, Pa. Weighing and loading apparatus for hoist skips. 1,475,637; Nov. 27.

Le Van Horning, Harry, assignor to Waukesha Motor Co., Waukesha, Wis. Intake manifold for internal-combustion engines. 1,475,556; Nov. 27.

Levine, Henry, Philadelphia, Pa. Box. 1,475,708; Nov. 27.

Lewis, Leo L. (See Lyle, J. I., and Lewis.)

Liberty Oil Burner Company. (See Wood, Myron W., assignor.)

Library Bureau. (See Dawson, George H., assignor.)

Lively, Lawrence E. (See Lambert, T. B., and Lively.)

Livermore & Knight Company. (See Kendrick, Dyer T., assignor.)

Lohr, Michael E. (See Barnhart, W. E., and Lohr.)

London General Omnibus Company Limited, The. (See Gage, Samuel, assignor.)

Lovejoy, Alfred A., South Bend, Ind. Wrist-pin lock. 1,475,346; Nov. 27.

Low, Archibald M., assignor to The Low Engineering Company Limited, London, England. Mixing apparatus. 1,475,638; Nov. 27.

Low Engineering Company, Limited, The. (See Low, Archibald M., assignor.)

Lozowsky, Julius J., Brooklyn, N. Y. Toy. 1,475,588; Nov. 27.

Luethi, Fredrick C., assignor of one-half to A. T. C. Olsen, Stoughton, Wis. Inkwell. 1,475,840; Nov. 27.

Lundgaard, Ivar, assignor to The Automatic Refrigerating Company, Hartford, Conn. Air-refrigerating machine. 1,475,234; Nov. 27.

Lundquist, Frank A., Chicago, Ill., assignor, by mesne assignments, to H. S. Conrad, trustee. Automatic telephone exchange. 1,475,497; Nov. 27.

Lundquist, Frank A., Chicago, Ill., assignor, by mesne assignments, to H. S. Conrad, trustee. Relay. 1,475,498; Nov. 27.

Lundquist, Frank A., Chicago, Ill., assignor, by mesne assignments, to H. S. Conrad, trustee. Line switch and connection. 1,475,499; Nov. 27.

Lundquist, Frank A., Chicago, Ill., assignor, by mesne assignments, to H. S. Conrad, trustee. Selector switch and connection. 1,475,500; Nov. 27.

Lundquist, Frank A., Chicago, Ill., assignor, by mesne assignments, to H. S. Conrad, trustee. Switching mechanism. 1,475,501; Nov. 27.

Lyle, Joel I., and L. L. Lewis, Plainfield, N. J., assignors to Carrier Engineering Corporation, New York, N. Y. Air washing and conditioning apparatus. 1,475,639; Nov. 27.

McAleer, John S. (See Bottone, Victor R., assignor.)

McCarthy, Daniel J., Elgin, Ill., assignor to Chicago Railway Signal and Supply Company. Chromatic light signal system. 1,475,709; Nov. 27.

McClenny, Robert J., East Palatka, Fla. Barrel-setting-up machine. 1,475,305; Nov. 27.

McConway & Torley Company, The. (See Kelso, William, assignor.)

McDaniels, Robert R. (See Gordon, Clarence S., assignor.)

McGowen, William R., assignor to American Bumper Company, Chicago, Ill. Automobile bumper. 1,475,347; Nov. 27.

McGowen, William R., assignor to American Bumper Company, Chicago, Ill. Bumper-supporting bracket. 1,475,348; Nov. 27.

McGhee, James W., assignor of one-half to E. C. Jinks, Los Angeles, Calif. Drapery hook. 1,475,306; Nov. 27.

McNeill, Dennis, assignor of one-third to F. C. Wallace, Huntington, W. Va. Flush tank. 1,475,841; Nov. 27.

Maatschappij tot Vervaardiging van Snijmachines volgens "Van Berkel's Patent" en van andere Werktuigen. (See de Graaf, C., jr., and Burman, assignors.)
MacIlwaine, Alfred W., Yorkshire, England. Packing and preservation of peanuts. 1,475,842; Nov. 27.
MacInnes, Jesse, Jersey City, N. J., assignor of one-half to H. C. Karlson, Hasbrouck Heights, N. J. Toilet article. 1,475,490; Nov. 27.
Mackay, Henry S., London, England. Treating ores. 1,475,843; Nov. 27.
MacKenzie, George W., Beaver, assignor to Guarantee Liquid Measure Company, Rochester, Pa. Liquid-measuring apparatus. 1,475,844; Nov. 27.
Macklanburg, Louis A., Oklahoma, Okla. Weather strip. 1,475,640; Nov. 27.
Macowsky, David. (See Miller, J., and Macowsky.)
Mac-Q Company, Inc. (See Canfield, John A., assignor.)
Magno Storage Battery Corporation. (See Meyer, S. M., and James, assignors.)
Malette, George A., San Diego, Calif. Internal-combustion engine. 1,475,641; Nov. 27.
Manger, Frederick W., Newark, N. J. Baby walker. 1,475,442; Nov. 27.
Manning, Bowman & Company. (See Warner, Maurice L., assignor.)
Manning, Fred W., Brooklyn, N. Y., assignor to Manning Refining Equipment Corporation. Revivifying finely-divided fuller's earth, bone char, and the like. 1,475,502; Nov. 27.
Manning, Maxwell & Moore, Inc. (See Wood, Augustus, assignor.)
Manning Refining Equipment Corporation. (See Manning, Fred W., assignor.)
Mapes, James L., Jersey Shore, Pa. Differential drive for motor vehicles. 1,475,307; Nov. 27.
Marden, Basil J. N., Liss, England. Steam generator. 1,475,589; Nov. 27.
Mariani, Randolph L., Philadelphia, Pa. Combined fan and lamp. 1,475,845; Nov. 27.
Marks, Herbert E., Glen Osborne, Pa. Roof or floor construction. 1,475,349; Nov. 27.
Marks, Herbert E., Glen Osborne, Sewickley, Pa. Roof or floor construction. 1,475,846; Nov. 27.
Marks, Herbert E., Glen Osborne, Sewickley, Pa. Roof or floor construction. 1,475,847; Nov. 27.
Marshall, James E., Cleveland, Ohio, assignor to General Electric Company. Sealing-in machine. 1,475,192; Nov. 27.
Martin, Talbot G., Chicago, and B. D. Willis, Oak Park, assignors to Automatic Electric Company, Chicago, Ill. Multioffice telephone system. 1,475,590; Nov. 27.
Martin, William H., Flushings, Netherlands. Determining the position of the center of gravity of rotary bodies with respect to the axis of rotation. 1,475,848; Nov. 27.
Marvin, Daniel H., Cedar Rapids, Iowa. Automobile transmission gearing. 1,475,350; Nov. 27.
Mason, Carl T., East Orange, assignor to Tiffany Manufacturing Company, Newark, N. J. Parking lamp. 1,475,443; Nov. 27.
Mason, Eugene E., Atlanta, Ga. Stove. 1,475,849; Nov. 27.
Masters, Arthur R., Boise, Idaho. Spring bed. 1,475,402; Nov. 27.
Mathieson Alkali Works. (See Brooks, Benjamin T., assignor.)
Mathis, Henry H., New Haven, Conn. Parallel-jaw pliers with adjustable gap. 1,475,642; Nov. 27.
Matthews, Scott J., assignor to G. A. True, trustee, Port Clinton, Ohio. Radiator for internal-combustion engines. 1,475,308; Nov. 27.
Mattingly, Albertus R., New York, N. Y. Attachment for sewing machines. 1,475,235; Nov. 27.
Mattingly & Moore Distillery Co. (See Miller, Samuel C., assignor.)
Mayberry, Hagar B., Gladstone, N. J. Tool for manual direction. 1,475,444; Nov. 27.
Mayer Life Boat Co. (See Albin, Sim E., assignor.)
Mead Gordon W., Sioux City, Iowa. Timer oiler. 1,475,643; Nov. 27.
Medén, Elof H., Short Hills, assignor to American Gasaccumulator Company, Elizabeth, N. J. Highway signal. 1,475,309; Nov. 27.
Medici, Villaglori, Genoa, Italy. Receptacle-washing machine. 1,475,850; Nov. 27.
Meehan, Albert, Portland, Me. Forming, stretching, and drying support for gloves and the like. 1,475,193; Nov. 27.
Meeli, George A., assignor to The Bailey, Banks & Biddle Company, Philadelphia, Pa. Class ring. Des. 63,371; Nov. 27.
Mersfelder, William L., Cincinnati, Ohio. Stove door. 1,475,236; Nov. 27.
Mershon, Stephen L., Llanerch, Pa. Igniting device for fuel burners. 1,475,644; Nov. 27.
Mészáros, Alexander, New York, N. Y. Plow. 1,475,710; Nov. 27.
Metal Forms Corporation. (See Trester, Herault A., assignor.)
Metzger, William, New York, N. Y. Spring lubricator. 1,475,270; Nov. 27.
Meyer, Eugene, New York, N. Y. Resonance horn. 1,475,769; Nov. 27.
Meyer-Keller, Otto, Lucerne, Switzerland. Electric water heater. 1,475,645; Nov. 27.
Meyer, Paul G., assignor to G. H. Bass & Company, Wilton, Me. Moccasin. 1,475,646; Nov. 27.
Meyer, Svend M., and W. James, Brooklyn, assignors to Magno Storage Battery Corporation, New York, N. Y. Storage battery. 1,475,503; Nov. 27.
Miller, Earl L. (See English, William H., assignor.)
Miller, Elmer E., Millersburg, Pa. Trigger mechanism and safety device therefor. 1,475,310; Nov. 27.
Miller, Frank P., Meadville, Pa. Reamer. 1,475,311; Nov. 27.
Miller, John C., assignor of one-half to J. W. Parson, Buffalo, N. Y. Phonograph-cabinet shutter. 1,475,237; Nov. 27.
Miller, Julius, and D. Macowsky, San Francisco, Calif. Dress. Des. 63,372; Nov. 27.
Miller, Leonard. (See Gowan, S., and Miller.)
Miller, Robert S. (See Ayers, A. R., and Miller.)
Miller, Samuel C., assignor to Mattingly & Moore Distillery Co., Louisville, Ky. Glass bottle. Des. 63,373; Nov. 27.
Miller, Wallace B., Beaumont, Tex. Acetylene generator. 1,475,770; Nov. 27.
Mitchell, John. (See Goold-Adams, H., and Mitchell.)
Mitchell Manufacturing Company. (See Mitchell, W., and King, assignors.)
Mitchell, William, and H. R. King, assignors to Mitchell Manufacturing Company, Milwaukee, Wis. Stock-watering system. 1,475,403; Nov. 27.
Möhring, Erich. (See Pollak, I., and Möhring.)
Mohrmann, Paul, assignor to Friedley Voshardt Co., Chicago, Ill. Shade holder for lighting fixture. Des. 63,374; Nov. 27.
Mohrmann, Paul, assignor to Friedley Voshardt Co., Chicago, Ill. Shade holder for lighting fixture. Des. 63,375; Nov. 27.
Moline Plow Company. (See Dickinson, Harry S., assignor.)
Moline Plow Company. (See Trolley, Isaac, assignor.)
Montgomery, Walter, Chicago, Ill. Cigar and cigarette holder. 1,475,238; Nov. 27.
Moody, Sydney A. (See Sargeant, A. E., and Moody.)
Moore, Charles S., Shelby, assignor to The Crystal Waxing Company, Middletown, Ohio. Holding wax sheets of paper. 1,475,712; Nov. 27.
Moore, George L., Chicago, Ill., assignor to H. Cadwell, Saugerties, N. Y. Automatic lubricator. 1,475,591; Nov. 27.
Moran, Theron D., Dillon, Mont. Attachment for disk harrows. 1,475,312; Nov. 27.
Morgan, Neil E., Ogdensburg, N. Y. Insecticide. 1,475,445; Nov. 27.
Morgan, Richard E., Orlando, Fla. Floor clamp. 1,475,851; Nov. 27.
Morgan, William R., Jackson, Mich. Nut-tapping machine. 1,475,711; Nov. 27.
Morris, Alexander, and E. H. Houtz, San Francisco, Calif. Motor-vehicle top. 1,475,852; Nov. 27.
Morrison, James, assignor to The Trailmobile Company, Cincinnati, Ohio. Semitrailer jack. 1,475,592; Nov. 27.
Morton, William A., Pittsburgh, Pa. Burner for furnaces. 1,475,194; Nov. 27.
Moseman, John H. (See Bonine, C. E., and Stauffer, assignors.)
Mossberg, Frank, Company. (See Tuttle, Walter L., assignor.)
Mull, Arthur, Chicago, Ill. Tire-inflating nipple. 1,475,853; Nov. 27.
Murdock, Henry D., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,475,854; Nov. 27.
Murdock, Henry D., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Tension device for armature banding. 1,475,855; Nov. 27.
Murphy, G. W. J., Company. (See Bourque, David, assignor.)
Murray, Donald. (See Nyman, Charles, assignor.)
Musch, Warren J., Hartford, Kans. Egg-turning tray. 1,475,856; Nov. 27.
Naamlooze Vennootschap de Nederlandsche Thermo-Telephoon-Maatschappij. (See Rellstab, Ludwig, assignor.)
Nagel, W. G., Electric Company, The. (See Decker, Hugh L., assignor.)
Nanler, Charles H., Cleveland, Ohio. Motor-driven target-throwing machine. 1,475,713; Nov. 27.
Naterman, Henry D., Los Angeles, Calif. Adjustable visor for vehicle windshields. 1,475,647; Nov. 27.
Nathan Manufacturing Company. (See Kassander, Leopold, assignor.)
National Pneumatic Company. (See Forman, Paris R., assignor.)
National Vulcanized Fibre Co. (See Cobb, Freeman A., assignor.)
Naylor, Adolphus, Medford, Oreg. Ditch digger. 1,475,550; Nov. 27.
Naylor, Robert C., assignor to The Gem Shirt Company, Dayton, Ohio. Trousers. 1,475,195; Nov. 27.
Nelis, Joseph J., Brooklyn, assignor to Power Specialty Company, New York, N. Y. Superheater. 1,475,924; Nov. 27.
Nelson, Albert, Chicago, Ill., assignor to The American Brake Shoe & Foundry Company, Wilmington, Del. Shaking-out device. 1,475,648; Nov. 27.
Nethercut, Edgar S. (See Colman, Howard D., assignor.)

Neuhaus, Hilda, Milford, Iowa. Post. 1,475,857; Nov. 27.
Neumann, John, Chicago, Ill. Building block or brick. 1,475,714; Nov. 27.
Newhard, Allen G., Allentown, Pa. Circuit controller. 1,475,313; Nov. 27.
New Jersey Machine Corporation. (See Feybusch, M., and Fleischer, assignors.)
Newman, Albert T., assignor of one-half to J. A. Rankin, Emporia, Kans. Carburetor. 1,475,404; Nov. 27.
Nicholaysen, John. (See Danckwortt, Thomas B., assignor.)
Niles-Bement-Pond Company. (See Blood, Harold L., assignor.)
Niles-Bement-Pond Company. (See Cole, Lyndon C., assignor.)
Nixon, Robert F., jr., assignor to G. A. Reach, Philadelphia, Pa. Form for baseball gloves. 1,475,239; Nov. 27.
Norland, Luther A., Sanford, Colo. Sickle holder. 1,475,858; Nov. 27.
Norman, Thomas E., Fall River, Mass. Filling guiding and tension mechanism for loom shuttles. 1,475,919; Nov. 27.
North East Electric Company. (See Sullivan, Raymond H., assignor.)
Northup, William G., jr., Minneapolis, Minn. Cloth measuring and registering device. 1,475,649; Nov. 27.
Novelty Amusement Co. (See Kerestes, George A., assignor.)
Nyman, Charles, Pittsburgh, assignor of one-half to D. Murray, Wilkinsburg, Pa. Plaited-cable sling. 1,475,859; Nov. 27.
O'Boyle, Martin J., Cleveland, and E. C. Holton, Olmsted Falls, assignors to The Sherwin Williams Company, Cleveland, Ohio. Method of and apparatus for evaporating liquids. 1,475,314; Nov. 27.
O'Brien, John, St. Paul, Minn. Milk can. 1,475,405; Nov. 27.
Oliver, Mary A., Johnson City, Tenn. Bed bottom. 1,475,860; Nov. 27.
Ollivier, Jocelyn E., La Vignette, St.-Gervais, France. Driving device for autosleds. 1,475,406; Nov. 27.
Olsen, Arthur T. C. (See Luethi, Fredrick C., assignor.)
Olson, Axel. (See Weber, C. J. M., and Olson.)
Omaha Accessory Company. (See Hartman, Arthur C., assignor.)
Osborne, Frank, Ford City, Pa., assignor to Pittsburgh Plate Glass Company. Glass melting pot. 1,475,650; Nov. 27.
Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Low-frequency measuring device. 1,475,240; Nov. 27.
Osbourn, Millard P., Philadelphia, Pa. Refrigerating system. 1,475,504; Nov. 27.
Osbourn, Millard P., Philadelphia, Pa. Refrigerating system. 1,475,505; Nov. 27.
Oswald, Alfred E., Bogota, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typing-speed recorder. 1,475,715; Nov. 27.
Otis Elevator Company. (See Sundh, August, assignor.)
Otis, Spencer, and W. A. Gardner, Chicago, Ill. Blow-off plug for boilers. 1,475,718; Nov. 27.
Otis, Spencer, Chicago, Ill. Locomotive blow-off system. 1,475,717; Nov. 27.
Overbaugh, Crellan G., and F. Kell, Port Rowan, Ontario, Canada, assignors to E. A. Killmaster, Cleveland, Ohio. Fruit-jar-cover fastener and remover. 1,475,716; Nov. 27.
Overbury, Frederick C., Rutherford, N. J., assignor to Flintkote Manufacturing Company, Boston, Mass. Forming roofing-strip blanks. 1,475,551; Nov. 27.
Page, Ernest, Wirt, Okla. Sucker-rod remover. 1,475,861; Nov. 27.
Padget, Henry D., St. Louis, Mo. Brass and packing guard for car-axle boxes. 1,475,196; Nov. 27.
Paffrath, Paul C. J., assignor of two-thirds to R. Pochwadt and A. Ganzel, Altenburg, Germany. Auxiliary air inlet for internal-combustion engines. 1,475,862; Nov. 27.
Page Steel & Wire Company. (See Snedeker, James W., assignor.)
Palmgren, Nils G. (See Betulander, G. A., and Palmgren.)
Parke, Peter, assignor to The Pullman Company, Chicago, Ill. Driving connection for railway-car generators. 1,475,241; Nov. 27.
Parkin, Joseph W., Philadelphia, Pa. Carburetor. 1,475,719; Nov. 27.
Parmenter, Frank C. (See Cole, Albert L., assignor.)
Parson, Joseph W. (See Miller, John C., assignor.)
Partington, Charles H. (See Henke, W. F., and Partington.)
Passenger Lorry Company, The. (See Wales, Claude A., assignor.)
Pate, Thomas J., Fort Smith, Ark. Pedal lock. 1,475,863; Nov. 27.
Patterson, Harry R., Toledo, Ohio. Electric power plant. 1,475,506; Nov. 27.
Pearson Products Corporation. (See Johnson, William A., assignor.)
Pearson, William H., Watertown, N. Y. Parking light. 1,475,507; Nov. 27.
Peczur, Jozefa, West Selkirk, Canada. Chipped-glass table ornament. Des. 63,370; Nov. 27.
People of the United States. (See Henley, Robert R.)
Perfect Vacuum Canning Company. (See Bach, Nelis P., assignor.)
Perovich, Rade N., Washoe, Mont. Railway switch. 1,475,407; Nov. 27.
Perry, Nathan G., Los Angeles, Calif., and C. E. Hulting, Nogales, Ariz. Lifting jack. 1,475,864; Nov. 27.
Peters, Rosa M., New York, N. Y. Head and socket fastener. 1,475,865; Nov. 27.
Peterson, Clarence P., Brooklyn, N. Y. House number and step illuminator. 1,475,866; Nov. 27.
Peterson, Earl L., Corona, assignor to United Concrete Pipe Company, New York, N. Y. Concrete-pipe joint. 1,475,867; Nov. 27.
Peterson, Gust W., Philadelphia, Pa., and J. P. Yenetis, Atlantic City, N. J. Garter construction. 1,475,868; Nov. 27.
Peterson, John A., Baltimore, Md. Means for opening grain doors of cars. 1,475,552; Nov. 27.
Petrie, Harry A., Harrisburg, Pa. Automatic stabilizer for aeroplanes. 1,475,869; Nov. 27.
Petterson, Per O., Malmo, Sweden. Kitchen-range water heater. 1,475,593; Nov. 27.
Pfaff Ernest C., Chicago, Ill. Automobile spotlight. 1,475,870; Nov. 27.
Phillips, Francis H., Old Westbury, N. Y. Animal trap. 1,475,871; Nov. 27.
Phillips, George W., Regina, Saskatchewan, Canada. Sawfiling rig. 1,475,351; Nov. 27.
Phillips, Will H., Chicago, Ill., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Condensing system. 1,475,242; Nov. 27.
Piédallu, André M. P. R., Sevres, France. Fuel burner. 1,475,553; Nov. 27.
Pierce, George A., Philadelphia, Pa. Signaling system. 1,475,594; Nov. 27.
Piper, Frederick G., Winchester, England. Headlight and the like. 1,475,872; Nov. 27.
Piper, Joseph W., Lowell, Mass. Grate for furnaces and boilers. 1,475,651; Nov. 27.
Piron Coal Distillation Systems. (See Piron, Emil, assignor.)
Piron, Emil, assignor to Piron Coal Distillation Systems, Inc., New York, N. Y. Distilling or refining column. 1,475,243; Nov. 27.
Pittsburgh Plate Glass Company. (See Brown, Christopher, assignor.)
Pittsburgh Plate Glass Company. (See Osborne, Frank, assignor.)
Pittsburgh Transformer Company. (See Bingay, Robert V., assignor.)
Pochwadt, Richard, et al. (See Paffrath, Paul C. J., assignor.)
Pohl, Charles, assignor to J. O. King, Los Angeles, Calif. Humidifier. 1,475,920; Nov. 27.
Polizzi, Raymond P., Brooklyn, N. Y. Advertising device for poker chips. 1,475,652; Nov. 27.
Pollak, Isidor, and E. Möhring, Vienna, Austria. Manufacture of artificial resins from phenol and formaldehyde. 1,475,446; Nov. 27.
Pollock, Robert T. (See Rahr, C. E., and Pollock.)
Poplawski, Stephen J., Racine, Wis., assignor, by mesne assignments, to The Gilchrist Company, Newark, N. J. Motor-driven mixer. 1,475,197; Nov. 27.
Potthoff, Louis, deceased, by Hamilton Trust Company, executor, Brooklyn, N. Y. Electroplating apparatus. 1,475,198; Nov. 27.
Power Specialty Company. (See Keenan, Walter F., jr., assignor.)
Power Specialty Company. (See Nelis, Joseph J., assignor.)
Prentice, George E., Berlin, Conn. Buckle. 1,475,720; Nov. 27.
Pressed Steel Car Company. (See Streib, John F., assignor.)
Proctor & Schwartz, Incorporation. (See Coulston, Harry, assignor.)
Pullman Company, The. (See Parker, Peter, assignor.)
Purves, Andrew, Holyoke, Mass. Producing wire fabrics. 1,475,352; Nov. 27.
Putt, Edward D., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Bead-splicing machine. 1,475,873; Nov. 27.
Pyle Albert C., and J. F. Brewer, Seattle, Wash. Hot-air heater. 1,475,874; Nov. 27.
Quin, Charles, Ottawa, Kans. Tag or label holder. 1,475,315; Nov. 27.
Racine Dispenser Manufacturing Company. (See Hanson, Sigvort, assignor.)
Ragot, Charles L., Kingsbridge, N. Y., and L. F. Ragot, Milford, Pa., assignors to Ragot Motor Corporation. Rotary engine. 1,475,509; Nov. 27.
Ragot, Charles L., Kingsbridge, N. Y., and L. F. Ragot, Milford, Pa., assignors to Ragot Motor Corporation. Cooling system for rotary internal-combustion engines. 1,475,510; Nov. 27.
Ragot, Louis F. (See Ragot, Charles L. and L. F.)
Ragot Motor Corporation. (See Ragot, Charles L. and L. F., assignors.)
Rahr, Chester E., and R. T. Pollock, assignors to The Flintkote Company, Boston, Mass. Apparatus for making roofing products. 1,475,595; Nov. 27.
Raimond, Georges. (See Scheemacker, E., and Raimond.)
Randall, Victor E., assignor to W. S. Clemence, Battle Creek, Mich. Culinary utensil. 1,475,316; Nov. 27.

Rankin, J. A. (See Newman, Albert T., assignor.)
Rash, Paul B., Wilmington, Del. Display frame. 1,475,875; Nov. 27.
Rasmussen, Thorvald, Los Angeles, assignor of one-half to S. T. Hansen, Long Beach, Calif. Cranking mechanism. 1,475,876; Nov. 27.
Reach, George A. (See Nixon, Robert F., jr., assignor.)
Redler, Arnold, Sharpness, England. Conveyer for substances in a fine or loose state of division. 1,475,596; Nov. 27.
Redmond, Harriet L., Boston, assignor to The William Carter Company, Needham Heights, Mass. Infant's band. 1,475,921; Nov. 27.
Reed, Robert L., Loveland, Okla. Fishing tackle. 1,475,408; Nov. 27.
Rees, Silas, Frampton Cotterell, England. Wheel, pulley, or the like. 1,475,511; Nov. 27.
Regan, John G., Newport, Ky. Sled. 1,475,877; Nov. 27.
Reiner, Emanuel. (See Hartleb, Rudolph C., assignor.)
Relay Automatic Telephone Company, The. (See Betulander, G. A., and Palmgren, assignors.)
Reliable Knitting Works. (See Rosenberg, Samuel, assignor.)
Reilstab, Ludwig, Berlin-Nikolassee, Germany, assignor to Naamlooze Vennootschap de Nederlandsche Thermo-Telephoon-Maatschappij, Utrecht, Netherlands. Multiple-wire cable for high-frequency telephony and telegraphy. 1,475,878; Nov. 27.
Remington Typewriter Company. (See Barney, Edwin E., assignor.)
Remy, Frank L., Indianapolis, Ind. Locking device for motors. 1,475,447; Nov. 27.
Research Club, Inc. (See Turpin, Fay, assignor.)
Reynolds, Joseph S., Carpinteria, Calif. Earthworking machine. 1,475,879; Nov. 27.
Rhoads, Edgar G. (See Hudson, F. S., and Rhoads.)
Rice, Grover C. (See Rice, N. A., Thompson, and Rice.)
Rice, John E. (See Rice, N. A., Thompson, and Rice.)
Rice, Noble A., Lodi, Ohio, G. W. Thompson, Syracuse, N. Y., G. C. Rice, and J. E. Rice, Lodi, Ohio. Collapsible or foldable seat. 1,475,512; Nov. 27.
Rickets, William J., London, England. Controlling and regulating system for dynamos. 1,475,880; Nov. 27.
Riddle, George W., Chicago, Ill. Composite structure. 1,475,409; Nov. 27.
Rike, Berton L., assignor to The Rike Folding Box Company, Dayton, Ohio. Clothes bag. 1,475,410; Nov. 27.
Rike Folding Box Company, The. (See Rike, Berton L., assignor.)
Ringe, John C., Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Bobbin-winding attachment for sewing machines. 1,475,597; Nov. 27.
Ripsch, Charles W., assignor to The Joyce-Cridland Company, Dayton, Ohio. Trailer jack. 1,475,598; Nov. 27.
Rivers, Ara M., administratrix. (See Rivers, C. A., and Stuart.)
Rivers, Charles A., deceased; and F. B. Stuart, El Paso, Tex.; A. M. Rivers, administratrix. Auxiliary-air-inlet shut-off valve. 1,475,721; Nov. 27.
Roberts, Arthur, Evanston, Ill., assignor, by mesne assignments, to Chicago Trust Company, trustee, Chicago, Ill. Coke oven. 1,475,881; Nov. 27.
Robertson, Katherine L., Chicago, Ill. Trunk. 1,475,882; Nov. 27.
Robinson, James K., Little Rock, Ark. Ventilator. 1,475,317; Nov. 27.
Rogers, Samuel R., De Soto, Mo. Stove lifter. 1,475,883; Nov. 27.
Rogers, William A., Harris, Iowa. Signal. 1,475,513; Nov. 27.
Rolls, Louis C., Hedley, British Columbia, Canada. Filter. 1,475,244; Nov. 27.
Romandy, Joseph, Harmerville, Pa. Insulator for telephone and high-tension conductors. 1,475,722; Nov. 27.
Romback, William L., Weston, W. Va. Combined fence post and stretcher. 1,475,884; Nov. 27.
Rose, Donald A., Berkeley, Calif. Fixture device. 1,475,885; Nov. 27.
Rosenberg, Louis, New York, N. Y. Covered button. 1,475,723; Nov. 27.
Rosenberg, Samuel, assignor to Reliable Knitting Works, Milwaukee, Wis. Knitted cap and making the same. 1,475,653; Nov. 27.
Ross, Arthur, London, England. Water-tube boiler. 1,475,411; Nov. 27.
Ross, Walter F., Detroit, Mich. Drill. 1,475,514; Nov. 27.
Roth, René, assignor to Societe Alsacienne de Constructions Mecaniques, Mulhouse (Haut-Rhin), France. Spinning mule. 1,475,318; Nov. 27.
Rothermel, Curtis J., Philadelphia, Pa. Flat or round wire tightener. 1,475,245; Nov. 27.
Rothermel, Curtis J., Philadelphia, Pa. Bale tie. 1,475,246; Nov. 27.
Rowe, Bedford F., Memphis, Tenn. Fireplace closure. 1,475,886; Nov. 27.
Rowntree, Harold, Pass Christian, Miss. Electrical transmission of communications. 1,475,448; Nov. 27.
Royal Typewriter Company. (See Utz, Anthony, assignor.)
Royston Paper Company, The. (See Atkinson, Thomas M., assignor.)
Rueckert, George C., Providence, R. I. Jewelry tray. 1,475,319; Nov. 27.
Rump, William J., Suedberg, Pa. Dispensing apparatus. 1,475,887; Nov. 27.
Rundqvist, Thore R. E., Stockholm, Sweden. Loading machine for ores and the like. 1,475,888; Nov. 27.
Russell, Albert I., assignor to Irons & Russell Company, Providence, R. I. Emblem. 1,475,320; Nov. 27.
Russell, George E., Hamilton, Ohio. Repair bottom or plate. 1,475,321; Nov. 27.
Russell, James H., Oklahoma, Okla. Reading stand or desk. 1,475,889; Nov. 27.
Russell, Nelson J., Chicago, Ill. Fuel-saving device for furnaces. 1,475,599; Nov. 27.
Rust, Robert R., New York, N. Y. Manhole cover. 1,475,199; Nov. 27.
Rutledge, George E., assignor to Vassar Swiss Underwear Company, Chicago, Ill. Button. Des. 63,376; Nov. 27.
Sabuc, Jacques A., Castelane-Montratier, France. Valve. 1,475,554; Nov. 27.
Sakryd, Charles H. (See Drefahl, L. C., and Sakryd.)
Sargeant, Alfred E., and S. A. Moody, Brisbane, Australia. Filing cabinet. 1,475,555; Nov. 27.
Saunders, Bertram H., Paterson, N. J. Variable-speed drive gear. 1,475,449; Nov. 27.
Schapiro, Abraham B., New York, N. Y. Hatpin or similar article. Des. 63,377; Nov. 27.
Scheemacker, Emile, Woonsocket, R. I., and G. Raimond, Bellingham, Mass. Aeroplane. 1,475,322; Nov. 27.
Schein, Alexander E. (See Thompson, H. H., and Schein.)
Schenkelberger, Ferdinand. (See Hecht, H., and Schenkelberger.)
Schley, Frederick L. (See Strauss, F., and Schley.)
Schling, Max, New York, N. Y. Hand seed sower. 1,475,600; Nov. 27.
Schling, Max, New York, N. Y. Hand seed sower. 1,475,601; Nov. 27.
Schlitzer, Walter C., Rochester, N. Y. Lens-testing instrument. 1,475,515; Nov. 27.
Schmuck, Alta M., Pasadena, Calif. Ball support for cooking vessels. 1,475,890; Nov. 27.
Schmücking, August, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Centrifugal drum. 1,475,323; Nov. 27.
Schneider, Augustus G., Arlington, Calif. Gas heater. 1,475,450; Nov. 27.
Schneider, William H. (See Ihrig, E. E., and Schneider.)
Schollhorn, William, Company, The. (See Bernard, William A., assignor.)
Schraeder's, A., Son, Incorporated. (See Solemink, Lloyd B., assignor.)
Schueler, Julian L., and C. A. Kellogg, Bartonville, Ill. Apparatus for measuring high temperatures. 1,475,365; Nov. 27.
Schwartz, Moritz D., New York, N. Y. Hanger for books. 1,475,451; Nov. 27.
Segur, Asa B., & Co. (See Segur, H., and Duddy, assignors.)
Segur, Harvey, and E. H. Duddy, assignors to A. B. Segur, doing business as A. B. Segur & Co., Chicago, Ill. Egg-case-filler machine. 1,475,247; Nov. 27.
Seitz, Eugen, Budapest, Hungary. Machine for the automatic spreading and filling of waffle leaves one above the other. 1,475,452; Nov. 27.
Selby, Mark W., assignor to The Selby Shoe Company, Portsmouth, Ohio. Heel for shoes. 1,475,412; Nov. 27.
Selby Shoe Company, The. (See Selby, Mark W., assignor.)
Sexton, Isaac E., Winchester, Mass. Outlet for cans. 1,475,724; Nov. 27.
Shafer, Clifford C., Newark, N. J. Egg-treating machine. 1,475,248; Nov. 27.
Shaffer, Otto, Porterville, Calif. Transmission mechanism. 1,475,516; Nov. 27.
Shanley, Bernard J. (See Duval, Harry E., assignor.)
Shapiro, Samuel, and M. Weinberg, Milwaukee, Wis. Tool for repairing punctured tires. 1,475,353; Nov. 27.
Shea, Patrick J., assignor to Chase Companies, Inc., Waterbury, Conn. Lever handle for lavatory faucets and the like. 1,475,654; Nov. 27.
Sheller, Harry E., assignor to Sheller Wood Rim Manufacturing Company, Portland, Ind. Method of making steering wheels. 1,475,602; Nov. 27.
Sheller Wood Rim Manufacturing Company. (See Sheller, Harry E., assignor.)
Sheridan, Eugene J., Rockland, N. Y. Mail pouch. 1,475,603; Nov. 27.
Sherwin Williams Company, The. (See O'Boyle, M. J., and Holton, assignors.)
Shinn, Horace, Maple Shade, N. J. Adjustable guide for crossheads of locomotives and the like. 1,475,453; Nov. 27.
Shobert, Jacob M., Noble, Okla. Boll-weevil destroyer. 1,475,413; Nov. 27.
Shuttleworth, Alfred, assignor of one-half to F. Smith, London, England. Domestic washing board. 1,475,454; Nov. 27.
Siegel, Joseph, assignor to American Lady Corset Company, Detroit, Mich. Method and means for attaching fastener tapes to garments. 1,475,604; Nov. 27.
Simpson, Emory G., assignor to Fisher Body Corporation, Detroit, Mich. Detachable armrest. 1,475,414; Nov. 27.
Simpson, James L., Waterloo, Iowa. Fish string. 1,475,891; Nov. 27.
Singer Manufacturing Company, The. (See Ringe, John C., assignor.)

Singer Manufacturing Company, The. (See Winkelmann, Charles, assignor.)
Skinner, William L., and J. J. King, Thomaston, Ala. Agricultural implement. 1,475,455; Nov. 27.
Smith, A. O., Corporation. (See Smith, Reuben S., assignor.)
Smith, Alexander, & Sons Carpet Company. (See Dunn, Edmund F., assignor.)
Smith, Arthur E., New York, N. Y. Golf-bag holder. 1,475,605; Nov. 27.
Smith, Charles H., Pawtucket, and A. E. Hampson, Lonsdale, R. I. Universal winding machine. 1,475,655; Nov. 27.
Smith, Frank. (See Shuttleworth, Alfred, assignor.)
Smith, Reuben S., assignor to A. O. Smith Corporation, Milwaukee, Wis. Die for drawing presses. 1,475,355; Nov. 27.
Smout, Donald T. (See Flood, W. H., and Smout.)
Snedeker, James W., assignor to Page Steel & Wire Company, Adrian, Mich. Fence loom. 1,475,324; Nov. 27.
Snider, Clint B., Independence, Kans. Tire-removing tool. 1,475,517; Nov. 27.
Snider, Clint B., Independence, Kans. Tire-removing tool. 1,475,518; Nov. 27.
Snider, Clint B., Independence, Kans. Tire-removing tool. 1,475,519; Nov. 27.
Societe Alsacienne de Constructions Mecaniques. (See Roth, René, assignor.)
Soglow, Berthold, New York, N. Y. Decorating walls. 1,475,922; Nov. 27.
Sohn, Harriett G., Hollywood, Calif. Garment. 1,475,892; Nov. 27.
Solemink, Lloyd B., San Francisco, Calif., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Device to unseat tire valves. 1,475,249; Nov. 27.
Sorel, Maurice E. D., Paris, France. Piston for internal-combustion engines. 1,475,520; Nov. 27.
Sotnikov, Matvei G., Philadelphia, Pa. Cooking utensil. 1,475,606; Nov. 27.
Spencer, Earl B., Pasadena, Calif. Washing mechanism. 1,475,607; Nov. 27.
Sperry Gyroscope Company. (See Thompson, H. H., and Schein, assignors.)
Spery, Philmore F., Chicago, Ill. Radiator core. 1,475,893; Nov. 27.
Sphinx Gramophone Motors, Inc. (See Weil, Maximilian, assignor.)
Spray Engineering Company. (See Day, Herbert W., assignor.)
Springthorpe, Isaac, Germantown, assignor, by mesne assignments, to Springthorpe Textile Machine Company, Philadelphia, Pa. Knitted fabric and its production. 1,475,325; Nov. 27.
Springthorpe Textile Machine Company. (See Springthorpe, Isaac, assignor.)
Stahl, Henry A. S., Long Island, N. Y. Violin. Des. 63,379; Nov. 27.
Stampfli, Wendell P., Healdton, Okla. Oil-well tool. 1,475,456; Nov. 27.
Stanbrough, William M., Newburgh, N. Y. Dental instrument. 1,475,452; Nov. 27.
Standard-Coosa-Thatcher Company, The. (See Gravel, David, assignor.)
Standard Gear Company. (See Collian, Victor, assignor.)
Standard Oil Company, The. (See King, O. M., and Brooks, assignors.)
Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bearing housing for electric motors. 1,475,894; Nov. 27.
Stauffer, Henry W. (See Bonine, C. E., and Stauffer.)
Ste. Anonyme pour l'Exploitation de Procedes Westinghouse Leblanc. (See Leblanc, Maurice, assignor.)
Steeg, Frederick L., assignor of one-half to J. L. Burkey, Chicago, Ill. Ring. Des. 63,380; Nov. 27.
Steel Heddle Manufacturing Company. (See Kaufmann, Jacob, assignor.)
Steese, Marcus C., Duluth, Minn. Means for preventing the escape of inclosed gas. 1,475,656; Nov. 27.
Stein, Jacob, New York, N. Y. Sanitary belt. 1,475,895; Nov. 27.
Steinert, Clarence L., Waukesha, Wis. Means for promoting retail credit. 1,475,896; Nov. 27.
Steinmark, Harry D., Brooklyn, N. Y. Lock. 1,475,725; Nov. 27.
Stephens, Andrew J., Kansas City, Mo. Inner tire. 1,475,326; Nov. 27.
Stevenson, Carl S., Binghamton, N. Y. Direction indicator for automobiles. 1,475,657; Nov. 27.
Steward, R. F. (See Thelmer, Eugene, assignor.)
Stogdale, Joseph S., Tacoma, Wash. Mechanical stoker. 1,475,361; Nov. 27.
Strauss, Ferdinand, New York, N. Y. Toy. Des. 63,378; Nov. 27.
Strauss, Ferdinand, New York, and F. L. Schley, Brooklyn, N. Y., assignors, by mesne assignments, to said Strauss. Display device. 1,475,726; Nov. 27.
Streib, John F., Avalon, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Brake supporting and releasing mechanism. 1,475,658; Nov. 27.
Strob, John H., Anchor, Ill. Clutch-pedal operator for tractors. 1,475,727; Nov. 27.
Strohmeier, Frederick E., Ashland, Pa. Ornamental band-woven fabric and making the same. 1,475,659; Nov. 27.
Stuart, Francis B. (See Rivers, C. A., and Stuart.)
Sturgis, Herbert M., assignor of forty-nine one-hundredths to F. Hamilton, Kansas City, Mo. Polishing mop. 1,475,521; Nov. 27.
Sturtevant, B. F., Company. (See Flemings, John R., assignor.)
Sullivan, Raymond H., assignor to North East Electric Company, Rochester, N. Y. Generator regulation. 1,475,251; Nov. 27.
Sundh, August, Hastings-upon-Hudson, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Interwoven flat-belt-drive apparatus. 1,475,250; Nov. 27.
Sundh Engineering and Machine Company. (See John, Griffith, assignor.)
Sutherland, Enos E., Los Angeles, Calif. Knockdown receptacle. 1,475,897; Nov. 27.
Swanjord, Knute, Balaton, Minn. Pressure gauge. 1,475,252; Nov. 27.
Swanson, Chrisopher, Laporte, Ind. Fence. 1,475,415; Nov. 27.
Swart, Walter G., Babbitt, Minn. Magnetic separator. 1,475,457; Nov. 27.
Swisher, R. D., Mfg. Co. (See Corey, Matt M., assignor.)
Sylvan, Joseph, Chicago, Ill. Glazing bar for skylights and the like. 1,475,416; Nov. 27.
Tausche, Archie E., La Crosse, Wis. Manifold heater. 1,475,356; Nov. 27.
Taylor, George A., Boston, Mass. Making piston rings. 1,475,660; Nov. 27.
Taylor, George A., Boston, Mass. Apparatus for forming piston rings. 1,475,661; Nov. 27.
Taylor, George A., Boston, Mass. Finishing piston-ring grooves. 1,475,662; Nov. 27.
Tedman, Hudson A., Galesburg, assignor to Winslow Boiler & Engineering Company, Chicago, Ill. Liquid-fuel burner. 1,475,458; Nov. 27.
Tefft, Floyd J., Chicago, Ill. Towel holder. 1,475,898; Nov. 27.
Templeton, Jones T., assignor to Buck's Stove & Range Company, St. Louis, Mo. Combination gas and electric stove. 1,475,608; Nov. 27.
Tenney, Dwight, Philadelphia, Pa., and W. D. Walsh, Brooklyn, N. Y., assignors to The Franklin Baker Company, Philadelphia, Pa. Coconut-husking machine. 1,475,459; Nov. 27.
Ter Cock, Chris, Baarn, Netherlands. Clutch. 1,475,470; Nov. 27.
Terrell, Daniel L. (See Terrell, Isaac H. and D. L.)
Terrell, Isaac H. and D. L., Kent, Ohio. Multiple-fuse plug. 1,475,200; Nov. 27.
Thelmer, Eugene, Newark, N. J., assignor, by mesne assignments, to R. F. Steward, Washington, D. C. Preparing alkyl derivatives of organic compounds. 1,475,522; Nov. 27.
Thibault, Alfred J. and R. R., Claremont, N. H. Spade. 1,475,899; Nov. 27.
Thibault, Raoul R. (See Thibault, Alfred J. and R. R.)
Thomas & Betts Co., The. (See Thomas, George C., jr., assignor.)
Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Panel cut-out block. 1,475,900; Nov. 27.
Thomas, George C., jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Connecting device for electrical conduits, cables, and the like. 1,475,524; Nov. 27.
Thomas, Ivor D., and P. H. Douglas, Cleveland Heights, assignors to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Manipulator. 1,475,728; Nov. 27.
Thompson, Carey W., Denver, Colo. Apparatus for distilling hydrocarbons. 1,475,901; Nov. 27.
Thompson, Corliss V., Carlton, Minn. Blackboard-eraser cleaner. 1,475,523; Nov. 27.
Thompson, Edwin B., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Flexible gear element. 1,475,902; Nov. 27.
Thompson, Gustavus W. (See Rice, N. A., Thompson, and Rice.)
Thompson, Herbert H., and A. E. Schein, assignors to The Sperry Gyroscope Company, Brooklyn, N. Y. Stabilized ship. 1,475,460; Nov. 27.
Thornton, Richard H., Portland, Oreg. Stream improvement. 1,475,461; Nov. 27.
Tiffany Manufacturing Company. (See Mason, Carl T., assignor.)
Tober, Carl, Berlin-Karlshorst, Germany. Bobbin-winding machine. 1,475,525; Nov. 27.
Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Telephone-exchange system. 1,475,201; Nov. 27.
Towers & Sullivan Manufacturing Co. (See Cothran, Walter S., assignor.)
Trailmobile Company, The. (See Morrison, James, assignor.)
Trester, Herault A., assignor to Metal Forms Corporation, Milwaukee, Wis. Concrete elevator and distributor. 1,475,253; Nov. 27.
Trolley, Isaac, Poughkeepsie, N. Y., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Tractor connection for agricultural implements. 1,475,202; Nov. 27.
Trolley, Isaac, Poughkeepsie, N. Y., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Tractor connection for agricultural implements. 1,475,204; Nov. 27.

Trolley, Isaac, Poughkeepsie, N. Y., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Tractor connection for agricultural implements. 1,475,205; Nov. 27.
Trolley, Isaac, Poughkeepsie, N. Y., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Tractor hitch for agricultural implements. 1,475,208; Nov. 27.
Trolley, Isaac, Poughkeepsie, N. Y., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Tractor hitch. 1,475,206; Nov. 27.
Trolley, Isaac, Poughkeepsie, N. Y., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Tractor connection for agricultural implements. 1,475,207; Nov. 27.
Trolley, Isaac, Poughkeepsie, N. Y., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Tractor connection for agricultural implements. 1,475,209; Nov. 27.
Trosch, Alfred, assignor to Arthur H. Ingle, Rochester, N. Y. Rapid traverse and feed control for boring mills. 1,475,253; Nov. 27.
True, George A., trustee. (See Matthews, Scott J., assignor.)
Trumbull Electric Manufacturing Company, The. (See Getchell, Benjamin E., assignor.)
Tseng, Jicknam, London, England. Manufacture of soap. 1,475,663; Nov. 27.
Turner & Seymour Manufacturing Company. (See Green, James A., assignor.)
Turnquist, Edward A., Wabash, Ind. Universal joint. 1,475,462; Nov. 27.
Turpin, Fay, assignor to Research Club, Inc., Chicago, Ill. Sign or similar article. Des. 63,381; Nov. 27.
Tuttle, Walter I., Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass. Head construction for beams and the like. 1,475,209; Nov. 27.
Tyler, Stephen L., Brooklyn, N. Y. Absorption and condensing apparatus. 1,475,327; Nov. 27.
Ulbrich, Hugh J. (See De Orlow, Stephen, assignor.)
Underwood Typewriter Company. (See Oswald, Alfred E., assignor.)
Union Switch & Signal Company, The. (See Beall, C. R., and Gilson, assignors.)
Union Tool Company. (See Zerbe, Lewis E., assignor.)
Unit Coin Device Manufacturing Corporation. (See Ihrig, E. E., and Schneider, assignors.)
United Concrete Pipe Company. (See Peterson, Earl L., assignor.)
United Shoe Machinery Corporation. (See Casgrain, Louis A., assignor.)
United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)
Upson, Ralph H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Airship. 1,475,210; Nov. 27.
Urtasun, Tony C., Castaic, Calif. Milk can holder. 1,475,903; Nov. 27.
Utz, Anthony, Hartford, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,475,664; Nov. 27.
Vandenplas Joe J., Green Bay, Wis. Mixer. 1,475,904; Nov. 27.
Van Dorn, Herbert E., Chicago, Ill. Car coupler. 1,475,609; Nov. 27.
Van Dorn, Herbert E., Chicago, Ill. Control system for car couplers, air lines, and electric circuits of railway cars. 1,475,610; Nov. 27.
Van Dorn, William E., Chicago, Ill. Metal car end. 1,475,611; Nov. 27.
Van Horsen, Emery O., Three Forks, Mont. Shaving mug. 1,475,905; Nov. 27.
Van Orden, Fred A., North White Lake, N. Y. Marker. 1,475,906; Nov. 27.
Vassar Swiss Underwear Company. (See Rutledge, George E., assignor.)
Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
Vieurs, Bernard G., Staten Island, N. Y. Pin clip. 1,475,211; Nov. 27.
Volman, Ani, Bridgeton, N. J. Securing element. 1,475,907; Nov. 27.
Wadsworth, Howard L., Cleveland, Ohio. Sand cutting and screening machine. 1,475,729; Nov. 27.
Wakefield, Arthur J., Miami, Fla. Piston ring remover. 1,475,665; Nov. 27.
Wallace, Frank C. (See McNeill, Dennis, assignor.)
Wales, Claude A., Brooklyn, N. Y., assignor to The Passenger Lorry Company. Vehicle frame. 1,475,328; Nov. 27.
Wales, Claude A., Brooklyn, N. Y., assignor to The Passenger Lorry Company. Vehicle body. 1,475,329; Nov. 27.
Wales, Claude A., Brooklyn, N. Y., assignor to The Passenger Lorry Company. Vehicle frame. 1,475,330; Nov. 27.
Wales, Claude A., Brooklyn, N. Y., assignor to The Passenger Lorry Company. One step dirigible vehicle. 1,475,331; Nov. 27.
Wales, Claude A., Brooklyn, N. Y., assignor to The Passenger Lorry Company. Vehicle frame. 1,475,332; Nov. 27.
Walser, Henry J. (See Haynes, Harold L., assignor.)
Walsh, William D. (See Tenney, D., and Walsh.)
Walsh, William P., Chicago, Ill. Lock bottle and cap. 1,475,908; Nov. 27.
Walter, Hugo J., assignor to Interstate Window Glass Company, Bradford, Pa. Drawing glass. 1,475,527; Nov. 27.
Walter, John H., Brooklyn, N. Y. Vending machine. 1,475,730; Nov. 27.
Ward, Edward C., Valley Falls, assignor to A. Lapovsky, New York, N. Y. Knitted fabric. 1,475,333; Nov. 27.
Warner, Maurice L., assignor to Manning, Bowman & Company, Meriden, Conn. Percolator. 1,475,334; Nov. 27.
Warren, Glenn B., and H. L. Wirt, Schenectady, N. Y., assignors to General Electric Company. Elastic-fluid turbine. 1,475,212; Nov. 27.
Waskins, Louis R. E., Edgewater, Colo. Automobile door lock. 1,475,526; Nov. 27.
Wasserman, Jacob, Brooklyn, N. Y. Motor vehicle clutch control. 1,475,909; Nov. 27.
Waters, Reginald H., Cumberland, Md., assignor to Kelly-Springfield Tire Company, New York, N. Y. Tread for a vehicle tire. Des. 63,382; Nov. 27.
Waters, Reginald H., Cumberland, Md., assignor to Kelly-Springfield Tire Company, New York, N. Y. Tread for a vehicle tire. Des. 63,383; Nov. 27.
Watson, Frank, Lynn, Mass. Mechanical dancing figure. 1,475,666; Nov. 27.
Watson, Oscar H., Brentwood, N. Y. Grease gun and carton. 1,475,417; Nov. 27.
Waukesha Motor Co. (See Le Van Horning, Harry, assignor.)
Weber, Albert. (See Erdbrügger, Gustav, assignor.)
Weber, Christopher J. M., and A. Olson, St. Paul, Minn. Mail-pouch catching and delivering device. 1,475,418; Nov. 27.
Weber, Joseph, Lone Rock, Wis. Flytrap. 1,475,357; Nov. 27.
Webster Electric Company. (See Hawkins, William W., assignor.)
Webster, William S., Brighton, Mass. Rheostat. 1,475,667; Nov. 27.
Weida, Harry, Highland Park, N. J., assignor to India Rubber Company. Making battery vents. 1,475,463; Nov. 27.
Weil, Maximilian, assignor to Sphinx Gramophone Motors, Inc., New York, N. Y. Turntable-braking means. 1,475,464; Nov. 27.
Weinberg, Max. (See Shapiro, S., and Weinberg.)
Weleski, Vince, Tarentum, Pa. Rail fastener. 1,475,910; Nov. 27.
Wellman-Seaver-Morgan Company, The. (See Case, Arthur L., assignor.)
Wellman-Seaver-Morgan Company, The. (See Thomas, I. D., and Douglas, assignors.)
Wellman-Seaver-Morgan Company, The. (See Windett, Victor, assignor.)
Wert, Cyrus S., Kendallville, Ind. Apparatus for forming faced concrete blocks. 1,475,911; Nov. 27.
Westinghouse Electric & Manufacturing Company. (See Austin, Bascum O., assignor.)
Westinghouse Electric & Manufacturing Company. (See Boddie, Clarence A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brace, Porter H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brown, James M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Candy, Albert M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Chubb, Lewis W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Colby, Ora A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Frederick, Louis T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gowan, S., and Miller, assignors.)
Westinghouse Electric & Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Johnson, C. C., and Abtmeyer, assignors.)
Westinghouse Electric & Manufacturing Company. (See Murdock, Henry D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Starker, Charles W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Thompson, Edwin B., assignor.)
Westinghouse Electric Products Company. (See Fay, Carl J., assignor.)
White, Joseph. (See Clemmens, W., and White.)
Wicks, John, assignor to Automatic Electric Company, Chicago, Ill. Measured-service telephone system. 1,475,612; Nov. 27.
Wicks, John, assignor to Automatic Electric Company, Chicago, Ill. Measured-service telephone system. 1,475,613; Nov. 27.
Wild, Charles H., Baltimore, Md., assignor to Burt Machine Company, Incorporated. Can-labeling machine. 1,475,358; Nov. 27.
Wilkinson, George D., Oak Park, assignor to Cribben & Sexton Company, Chicago, Ill. Gas burner. 1,475,465; Nov. 27.
Wilkinson, George D., Oak Park, assignor to Cribben & Sexton Company, Chicago, Ill. Gas cooking top. 1,475,466; Nov. 27.
Williams, Arthur, assignor to Wilmarth & Morman Company, Grand Rapids, Mich. Head adjustment for grinding machines. 1,475,614; Nov. 27.
Williams, John R., Miami, Ariz. Automobile seat warmer and cooler. 1,475,912; Nov. 27.
Williams, Morgan, Ogmore Vale, near Bridgend, Wales. Pit-cage arrester. 1,475,668; Nov. 27.

Williamson, Herbert E., San Francisco, Calif. Driving mechanism for washing machines. 1,475,913; Nov. 27.
Willing, Isidor, Milwaukee, Wis. Combination display stand. 1,475,669; Nov. 27.
Willis, Bernard D. (See Martin, T. G., and Willis.)
Willys-Overland Company, The. (See Bonel, Spiro S., assignor.)
Wilmarth & Morman Company. (See Williams, Arthur, assignor.)
Winchester Repeating Arms Company. (See Humeston, Frederick L., assignor.)
Windett, Victor, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Door and door-operating mechanism for furnaces and the like. 1,475,731; Nov. 27.
Winkelmann, Charles, North Bergen, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Hat lining. 1,475,615; Nov. 27.
Winslow Boiler & Engineering Company. (See Tedman, Hudson A., assignor.)
Wirt, Harrison L., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. 1,475,213; Nov. 27.
Wirt, Harrison L., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. 1,475,214; Nov. 27.
Wirt, Harrison L. (See Warren, G. B., and Wirt.)
Wiseley, George W., Holdenville, Okla. Boll-weevil destroyer. 1,475,467; Nov. 27.
Wittstein, Francis H., Newark, N. J. Finger ring. Des. 63,384; Nov. 27.
Wohl, Alfred, Danzig-Langfuhr, assignor to The Fleischmann Company, New York, N. Y. Manufacture of yeast. 1,475,215; Nov. 27.
Wonn, William. (See Bradburn, C. E., and Finke, assignors.)
Wood, Augustus, Fitchburg, Mass., assignor to Manning, Maxwell & Moore, Inc., New York, N. Y. Driving dog for lathes. 1,475,616; Nov. 27.
Wood, Harry L., Lakewood, Ohio. Battery-post clamp. 1,475,914; Nov. 27.
Wood, Hiram D., Alexandria, Mo. Dump end gate. 1,475,915; Nov. 27.
Wood, Myron W., assignor, by mesne assignments, to Liberty Oil Burner Company, Omaha, Nebr. Oil burner. 1,475,528; Nov. 27.
Woodruff, Russell J., Cleveland, Ohio. Piston. 1,475,359; Nov. 27.
Woods, Jacob, Griswold, Iowa. Combined wagon box and end gate. 1,475,732; Nov. 27.
Worthington Pump and Machinery Corporation. (See Phillips, Will H., assignor.)
Wright, William, Lake Preston, S. Dak. Latching hinge. 1,475,335; Nov. 27.
Yanochowski, George A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. 1,475,216; Nov. 27.
Yates, Charles E. (See Bowman, C. R., and Yates.)
Yenetis, James P. (See Peterson, G. W., and Yenetis.)
Yockey, Arthur M. (See Leatherman, R. L., and Yockey.)
Yorks, Julius, Boston, Mass. Tank valve. 1,475,670; Nov. 27.
Young, L. A., Industries, Inc. (See Backus, Hubert V., assignor.)
Zanella, Apollony, Helena, Mont. Buffer. 1,475,916; Nov. 27.
Zarrelli, Gaspero, Vancouver, British Columbia, Canada. Boot-polishing machine. 1,475,671; Nov. 27.
Zeck, Charles, Detroit, Mich. Match safe. Des. 63,385; Nov. 27.
Zeiss, Firm Carl. (See Henker, Otto, assignor.)
Zeiss, Firm Carl. (See König, Albert, assignor.)
Zerbe, Lewis E., Moneta, assignor to Union Tool Company, Torrance, Calif. Bushing retainer for rotary-drill tables. 1,475,360; Nov. 27.
Zoepke, Fred W. T., Great Falls, Mont. Cutting machine. 1,475,336; Nov. 27.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 27TH DAY OF NOVEMBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Absorption and condensing apparatus. S. L. Tyler. 1,475,327; Nov. 27.
Acetylene generator. W. B. Miller. 1,475,770; Nov. 27.
Acid compounds, Making fatty. C. Ellis. 1,475,477; Nov. 27.
Addressing machine, Stencil-. P. F. Cox. 1,475,565; Nov. 27.
Adjustable wrench. C. A. Dies. 1,475,755; Nov. 27.
Advertising device or toy. J. S. Curwen. 1,475,430; Nov. 27.
Advertising machine. H. M. Cheek. 1,475,540; Nov. 27.
Aeroplane. E. Schumacker and G. Raimond. 1,475,322; Nov. 27.
Aeroplanes, Automatic stabilizer for. H. A. Petrie. 1,475,869; Nov. 27.
Agricultural implement. W. L. Skinner and J. J. King. 1,475,455; Nov. 27.
Air compressor, Rotary. J. O. Carrey. 1,475,683; Nov. 27.
Air compressors, Regulator for. R. G. Dyson. 1,475,757; Nov. 27.
Air standard. H. Illiferink. 1,475,397; Nov. 27.
Air washing and conditioning apparatus. J. I. Lyle and L. L. Lewis. 1,475,639; Nov. 27.
Aircraft, Inflating mechanism for. H. T. Kraft. 1,475,304; Nov. 27.
Airplane. W. Calagnins. 1,475,790; Nov. 27.
Airplanes, Parachute for. V. B. Carll. 1,475,792; Nov. 27.
Airship. R. H. Upson. 1,475,210; Nov. 27.
Alkyl derivatives of organic compounds, Preparing. E. Theimer. 1,475,522; Nov. 27.
Animal trap. F. H. Phillips. 1,475,871; Nov. 27.
Antimony, Direct recovery of metallic. A. Germot. 1,475,294; Nov. 27.
Antiskid chain. I. P. Engle. 1,475,478; Nov. 27.
Antitoxin and making the same, Clarified serum. R. R. Henley. 1,475,580; Nov. 27.
Armature banding, Tension device for. H. D. Murdock. 1,475,855; Nov. 27.
Armrest, Detachable. E. G. Simpson. 1,475,414; Nov. 27.
Arsenate of lime product and making same. L. C. Drefahl and C. H. Sakryd. 1,475,545; Nov. 27.
Atomizer. J. D. Davis. 1,475,340; Nov. 27.
Automobile brake control. W. L. Kauffman, 2d. 1,475,491; Nov. 27.
Automobile bumper. E. D. Dodge. 1,475,758; Nov. 27.
Automobile bumper. W. R. McGowen. 1,475,347; Nov. 27.
Automobile door lock. L. R. E. Waskins. 1,475,526; Nov. 27.
Automobile radiator cap. O. L. Bihlmire. Des. 63,355; Nov. 27.
Automobile radiators, Water gauge for. W. B. Jarvis. Des. 63,367; Nov. 27.
Automobile seat warmer and cooler. J. R. Williams. 1,475,912; Nov. 27.
Automobile signal. H. L. Furr. 1,475,811; Nov. 27.
Automobile spotlight. E. C. Pfaff. 1,475,870; Nov. 27.
Automobile top frame. G. E. Bishop. 1,475,421; Nov. 27.
Automobile transmission gearing. D. H. Marvin. 1,475,350; Nov. 27.
Automobiles, Antitheft plate for. E. S. Ensign. 1,475,691; Nov. 27.
Automobiles, Boat carrier for. G. M. Clark. 1,475,685; Nov. 27.
Automobiles, Device for replacing valve-stem guides for. W. P. Jameson. 1,475,830; Nov. 27.
Automobiles, Direction indicator for. C. S. Stevenson. 1,475,657; Nov. 27.
Automobiles, Spring crank holder for. C. A. Kellogg. 1,475,836; Nov. 27.
Autosleds, Driving device for. J. E. Ollivier. 1,475,406; Nov. 27.
Axle for road vehicles. A. M. Bünger. 1,475,745; Nov. 27.
Baby walker. F. W. Manger. 1,475,442; Nov. 27.
Bag: *See*—
Clothes bag.
Bag closer. I. T. English. 1,475,759; Nov. 27.
Bale tie. C. J. Rothermel. 1,475,246; Nov. 27.
Band, Infant's. H. L. Redmond. 1,475,921; Nov. 27.
Bar: *See*—
Stripping bar.
Barge, Dump-header. J. Crane. 1,475,279; Nov. 27.

Barrel-setting-up machine. R. J. McClenny. 1,475,305; Nov. 27.
Battery: *See*—
Secondary or storage battery. Storage battery.
Battery-post clamp. H. L. Wood. 1,475,914; Nov. 27.
Battery vents, Making. H. Weida. 1,475,463; Nov. 27.
Bead-splicing machine. E. D. Putt. 1,475,873; Nov. 27.
Beams and the like, Head construction for. W. I. Tuttle. 1,475,209; Nov. 27.
Bed bottom. M. A. Oliver. 1,475,860; Nov. 27.
Bed, Spring. A. R. Masters. 1,475,402; Nov. 27.
Belt-drive apparatus, Interwoven flat-. A. Sundh. 1,475,250; Nov. 27.
Bending machine and vise, Combined. C. S. Gordon. 1,475,813; Nov. 27.
Bevels, Machine for smoothing and polishing. C. Brown. 1,475,742; Nov. 27.
Blackboard-eraser cleaner. C. V. Thompson. 1,475,523; Nov. 27.
Block: *See*—
Cut-off block.
Block machine. C. O. Brandell. 1,475,168; Nov. 27.
Board: *See*—
Plaster board. Stocking board.
Boat-launching device. C. F. Ellison and E. F. Beyer. 1,475,290; Nov. 27.
Boat-propelling device. C. A. Joyner. 1,475,833; Nov. 27.
Bobbin. J. Kaufmann. 1,475,704; Nov. 27.
Bobbin-transferring mechanism. A. Laflamme. 1,475,438; Nov. 27.
Bobbin-winding machine. C. Tober. 1,475,525; Nov. 27.
Boiler: *See*—
Water-tube boiler.
Boilers, Blow-off plug for. S. Otis and W. A. Gardner. 1,475,718; Nov. 27.
Boll-weevil destroyer. J. M. Shobert. 1,475,413; Nov. 27.
Boll weevil destroyer. G. W. Wiseley. 1,475,467; Nov. 27.
Book cover, Protective. O. V. Lalonde. 1,475,586; Nov. 27.
Books, Hanger for. M. D. Schwartz. 1,475,451; Nov. 27.
Boot-blacking machine. S. Guglielmello. 1,475,298; Nov. 27.
Boot-polishing machine. G. Zarrelli. 1,475,671; Nov. 27.
Boring mills, Rapid traverse and feed control for. A. Trosch. 1,475,255; Nov. 27.
Bottle. E. P. Benois. Des. 63,351–2; Nov. 27.
Bottle. E. P. Benois. Des. 63,354; Nov. 27.
Bottle. R. C. Graham. Des. 63,365; Nov. 27.
Bottle and cap, Lock. W. P. Walsh. 1,475,908; Nov. 27.
Bottle cap, Dairy-. N. J. Hall. 1,475,383; Nov. 27.
Bottle, Glass. S. C. Miller. Des. 63,373; Nov. 27.
Box: *See*—
Click box. Sound box.
Journal box.
Box. H. Levine. 1,475,708; Nov. 27.
Boxes, Machine for wrapping. M. Feybusch and P. W. Fleischer. 1,475,694; Nov. 27.
Brake: *See*—
Car brake.
Brake. C. E. Bradburn and A. Finke. 1,475,538; Nov. 27.
Brake beam. S. A. Crone. 1,475,280; Nov. 27.
Brake shoes, Locking key for. S. A. Crone. 1,475,281–2; Nov. 27.
Brake shoes, Locking key for. S. A. Crone. 1,475,284; Nov. 27.
Brake supporting and releasing mechanism. J. F. Streib. 1,475,658; Nov. 27.
Bricks, Manufacture of. F. P. Jones. 1,475,832; Nov. 27.
Brines, Purification of. B. T. Brooks. 1,475,563; Nov. 27.
Broom. L. and G. Berberich. 1,475,620; Nov. 27.
Brush, Lather. A. Albright, jr. 1,475,673; Nov. 27.
Buckle. G. E. Prentice. 1,475,720; Nov. 27.
Buffer. A. Zanella. 1,475,916; Nov. 27.
Building block or brick. J. Neumann. 1,475,714; Nov. 27.
Bumper-supporting bracket. W. R. McGowen. 1,475,348; Nov. 27.
Burial receptacle. H. E. Duval. 1,475,756; Nov. 27.
Burner: *See*—
Fuel burner. Liquid-fuel burner.
Gas burner. Oil burner.
Burners or stoves, Lighting accessory for wickless. B. Bark. 1,475,778; Nov. 27.
Button. G. E. Rutledge. Des. 63,376; Nov. 27.
Button, Covered. L. Rosenberg. 1,475,723; Nov. 27.
Button fastener. M. Folkman. 1,475,479; Nov. 27.
Button, Separable. G. Cloutier. 1,475,750; Nov. 27.

Buttons, Machine for drilling. D. Bourque. 1,475,787; Nov. 27.
Cabinet, Filing. A. E. Sargeant and S. A. Moody. 1,475,555; Nov. 27.
Cable device, Slack-. G. John. 1,475,701; Nov. 27.
Cable sling, Plaited-. C. Nyman. 1,475,859; Nov. 27.
Cage, Overturning. D. F. Lepley. 1,475,636; Nov. 27.
Calcium nitrate and making same, Hydrated. H. J. Krase and Jew Yam Yee. 1,475,492; Nov. 27.
Calking, Tool for. H. G. Gundlach. 1,475,264; Nov. 27.
Can: *See*—
Milk can.
Can-body maker. A. L. Kronquest. 1,475,399; Nov. 27.
Can-filling machine. C. H. Ayars. 1,475,675; Nov. 27.
Can-labeling machine. C. H. Wild. 1,475,358; Nov. 27.
Can-washing machine, Milk-. C. E. Bonine and H. W. Stauffer. 1,475,535; Nov. 27.
Cans or similar receptacles, Machine for washing milk. C. E. Bonine and H. W. Stauffer. 1,475,536; Nov. 27.
Cans, Outlet for. I. E. Sexton. 1,475,724; Nov. 27.
Candles, Adjustable support for electric-light. S. M. Israel. 1,475,768; Nov. 27.
Candlestick. A. J. Flauder. Des. 63,361; Nov. 27.
Caoutchouc, Producing seamless articles of. A. Boecler. 1,475,738; Nov. 27.
Car-axle boxes, Brass and packing guard for. H. D. Padget. 1,475,196; Nov. 27.
Car brake, Railway-. S. A. Crone. 1,475,286; Nov. 27.
Car coupler. W. Kelso. 1,475,634–5; Nov. 27.
Car coupler. H. E. Van Dorn. 1,475,609; Nov. 27.
Car couplers, air lines, and electric circuits of railway cars, Control system for. H. E. Van Dorn. 1,475,610; Nov. 27.
Car door, Railway-freight-. A. R. Ayers and R. S. Miller. 1,475,917; Nov. 27.
Car end, Metal. W. E. Van Dorn. 1,475,611; Nov. 27.
Car generators, Driving connection for railway-. P. Parke. 1,475,241; Nov. 27.
Car, Railway. B. W. Kadel. 1,475,187; Nov. 27.
Car system. H. G. Hilliman. 1,475,699; Nov. 27.
Car-truck arrangement, Railway-. G. G. Floyd. 1,475,179; Nov. 27.
Car truck, Railway-. G. G. Floyd. 1,475,178; Nov. 27.
Car truck, Railway-. G. G. Floyd. 1,475,180; Nov. 27.
Car trucks, Brake mechanism for. W. S. Adams. 1,475,733; Nov. 27.
Cars, Means for opening grain doors of. J. A. Peterson. 1,475,552; Nov. 27.
Carburetor. A. T. Newman. 1,475,404; Nov. 27.
Carburetor. J. W. Parkin. 1,475,719; Nov. 27.
Carburetor control and indicator, Automatic. S. E. Foreman. 1,475,880; Nov. 27.
Carburetor-locking device. C. R. Bowman and C. E. Yates. 1,475,275; Nov. 27.
Card-index systems, Alphabetical divider for. G. H. Dawson. 1,475,568; Nov. 27.
Card-stringing machine. D. T. Kendrick. 1,475,395; Nov. 27.
Carriage, Baby. W. J. Egan. 1,475,375; Nov. 27.
Case: *See*—
Cigarette case.
Cheese-making apparatus. O. A. Kielsmeier. 1,475,398; Nov. 27.
Chimney cleaner. S. Heimerman. 1,475,229; Nov. 27.
Chocolates, Device for forming. M. J. Harlan. 1,475,579; Nov. 27.
Cigar and cigarette holder. W. Montgomery. 1,475,238; Nov. 27.
Cigarette case. B. L. Dall. 1,475,567; Nov. 27.
Circuit breaker, Overload-. C. R. Beall and R. M. Gilson. 1,475,166; Nov. 27.
Circuit breaker, Thermally-controlled. A. Herz. 1,475,630; Nov. 27.
Circuit breaker, Thermally-controlled. C. Herbst. 1,475,631; Nov. 27.
Circuit controller. A. G. Newhard. 1,475,313; Nov. 27.
Clamp: *See*—
Battery-post clamp. Form clamp.
Floor clamp. Pipe-repair clamp.
Clamp. J. M. Brown. 1,475,744; Nov. 27.
Class ring. G. A. Meell. Des. 63,371; Nov. 27.
Cleaner: *See*—
Blackboard-eraser cleaner. Chimney cleaner.
Click box. H. L. Blood. 1,475,274; Nov. 27.
Clip: *See*—
Pin clip.
Cloth-spreading machine. M. Dorman. 1,475,802; Nov. 27.
Clothes bag. B. I. Rike. 1,475,410; Nov. 27.
Clothes reel. W. J. Coulter. 1,475,369; Nov. 27.
Clutch. V. Colliau. 1,475,564; Nov. 27.
Clutch. C. Ter Cock. 1,475,470; Nov. 27.
Coal for coking, Preparing. H. Dannettell. 1,475,543; Nov. 27.
Coating, Apparatus for applying. H. W. Day. 1,475,372; Nov. 27.
Coating or inking device. F. A. Cobb. 1,475,687; Nov. 27.
Coconut-husking machine. D. Tenney and W. D. Walsh. 1,475,459; Nov. 27.
Coin-dispensing device. W. G. King. 1,475,585; Nov. 27.
Coin holder. E. E. Ibrig and W. H. Schneider. 1,475,829; Nov. 27.
Collapsible or foldable seat. N. A. Rice, G. W. Thompson, and G. C. and J. E. Rice. 1,475,512; Nov. 27.

Columns and the like, Constructing foundation. C. R. Gow. 1,475,696; Nov. 27.
Comb, Tonic-applying. H. L. Borstelman. 1,475,786; Nov. 27.
Composite article. L. T. Frederick. 1,475,764; Nov. 27.
Composite structure. G. W. Riddle. 1,475,409; Nov. 27.
Compressor unit. H. A. Gehres. 1,475,381; Nov. 27.
Concrete-block-molding machine. W. E. Barnhart and M. E. Lohr. 1,475,532; Nov. 27.
Concrete blocks, Apparatus for forming faced. C. S. Wert. 1,475,911; Nov. 27.
Concrete elevator and distributor. H. A. Trester. 1,475,253; Nov. 27.
Concrete-pipe joint. E. L. Peterson. 1,475,867; Nov. 27.
Condensing system. W. H. Phillips. 1,475,242; Nov. 27.
Conduits, cables, and the like, Connecting device for electrical. G. C. Thomas, jr. 1,475,524; Nov. 27.
Connecter. V. R. Bottone. 1,475,257; Nov. 27.
Container. S. H. Bailey. 1,475,776; Nov. 27.
Containers, Method of and apparatus for sealing. N. P. Bach. 1,475,469; Nov. 27.
Control system. R. E. Hellmund. 1,475,823; Nov. 27.
Conveyer for substances in a fine or loose state of division. A. Redler. 1,475,596; Nov. 27.
Cooking utensil. M. G. Sotnikov. 1,475,606; Nov. 27.
Cooking vessels, Bail support for. A. M. Schmuck. 1,475,890; Nov. 27.
Corner-rounding machine. C. Brown. 1,475,741; Nov. 27.
Cotter-pin tool. J. A. Hay. 1,475,821; Nov. 27.
Cranking mechanism. T. Rasmussen. 1,475,876; Nov. 27.
Credit, Means for promoting retail. C. L. Steinert. 1,475,896; Nov. 27.
Crib. J. H. Bradley. 1,475,537; Nov. 27.
Crosshead shoe, Expanding. V. Andrioli. 1,475,337; Nov. 27.
Culinary utensil. V. E. Randall. 1,475,316; Nov. 27.
Cultivator, Tractor. H. S. Dickinson. 1,475,226; Nov. 27.
Cun: *See*—
Oil cup.
Current generator, Variable-. C. A. Hoxie. 1,475,583; Nov. 27.
Curtain pole and shade holder, Combination. S. Good. 1,475,576; Nov. 27.
Cut-out block, Panel. G. B. Thomas. 1,475,900; Nov. 27.
Cutter: *See*—
Pipe cutter. Potato cutter.
Cutter chain and bars for mining machines. F. Cartlidge. 1,475,364; Nov. 27.
Cutting machine. P. W. T. Zoepke. 1,475,336; Nov. 27.
Dancing figure, Mechanical. F. Watson. 1,475,666; Nov. 27.
Dental bridge. J. B. Foster. 1,475,808; Nov. 27.
Dental instrument. W. M. Stanbrough. 1,475,354; Nov. 27.
Dial. L. P. Creasy. 1,475,800; Nov. 27.
Dipper and grader, Prune. E. S. Anderson. 1,475,419; Nov. 27.
Direction indicator. V. M. Fowler. 1,475,293; Nov. 27.
Dishwashing machine. T. C. Hicks. 1,475,489; Nov. 27.
Dispensing apparatus. W. J. Rump. 1,475,887; Nov. 27.
Dispensing machine. S. Hanson. 1,475,341; Nov. 27.
Display case. M. Katzman. Des. 63,369; Nov. 27.
Display device. F. Strauss and F. L. Schley. 1,475,726; Nov. 27.
Display frame. P. B. Rash. 1,475,875; Nov. 27.
Display stand, Combination. I. Willing. 1,475,669; Nov. 27.
Distilling or refining column. E. Piron. 1,475,243; Nov. 27.
Ditch digger. A. Naylor. 1,475,550; Nov. 27.
Doll. M. Coligny. Des. 63,358; Nov. 27.
Doll. C. Davile. Des. 63,360; Nov. 27.
Doll, Dancing. A. D. Converse. 1,475,222; Nov. 27.
Door closer-. W. K. Henry. 1,475,581; Nov. 27.
Doors, Safety mechanism for power-operated. P. R. Forman. 1,475,482; Nov. 27.
Doorstop. J. Davis. 1,475,172; Nov. 27.
Draft gear for trailers. F. D. Burgess. 1,475,425; Nov. 27.
Drapery hook. J. W. McGhee. 1,475,306; Nov. 27.
Drawing presses, Die for. R. S. Smith. 1,475,353; Nov. 27.
Dress. J. Miller and D. Macowsky. Des. 63,372; Nov. 27.
Drill. W. F. Ross. 1,475,514; Nov. 27.
Drill tables, Bushing retainer for rotary-. L. E. Zerbe. 1,475,860; Nov. 27.
Drum, Centrifugal. A. Schmücking. 1,475,323; Nov. 27.
Duplicating roll. F. C. Gottschalk. 1,475,263; Nov. 27.
Dynamos, Controlling and regulating system for. W. J. Rickets. 1,475,880; Nov. 27.
Earthworking machine. J. S. Reynolds. 1,475,879; Nov. 27.
Edible product and making the same. W. H. Gesell. 1,475,574; Nov. 27.
Egg beater. J. A. Green. 1,475,767; Nov. 27.
Egg-case-filler-machine. H. Segur and E. H. Duddy. 1,475,247; Nov. 27.
Egg-treating machine. C. C. Shafer. 1,475,248; Nov. 27.
Egg-turning tray. W. J. Musch. 1,475,856; Nov. 27.
Eggs, Preserving. R. Du Bois and H. I. Jones. 1,475,804; Nov. 27.
Electric conductors, Thimble for use in conjunction with. J. Gates. 1,475,627; Nov. 27.

Electric heater. C. C. Abbott. 1,475,162; Nov. 27.
Electric iron. O. A. Colby. 1,475,751; Nov. 27.
Electric regulator system. C. A. Boddie. 1,475,737; Nov. 27.
Electric system. B. E. Getchell. 1,475,295; Nov. 27.
Electrical system. R. E. Hellmund. 1,475,822; Nov. 27.
Electrical transmission of communications. H. Rowntree. 1,475,448; Nov. 27.
Electrode holder. W. H. Flood and D. T. Smout. 1,475,481; Nov. 27.
Electrolytic cells, Means for replenishing the electrolyte of. P. H. Brace. 1,475,739; Nov. 27.
Electroplating apparatus. L. Potthoff. 1,475,198; Nov. 27.
Emblem. T. C. Glaser. 1,475,484; Nov. 27.
Emblem. A. I. Russell. 1,475,320; Nov. 27.
End gate, Dump. H. D. Wood. 1,475,915; Nov. 27.
Engine: *See*—
Internal-combustion engine. Rotary engine.
Oil engine.
Engine starter. V. Bendix. 1,475,677; Nov. 27.
Engines, Auxiliary air inlet for internal-combustion. P. C. J. Paffrath. 1,475,862; Nov. 27.
Engines, Cooling system for rotary internal-combustion. C. L. and L. F. Ragot. 1,475,510; Nov. 27.
Engines, Draft-control structure for locomotive. R. H. Kautzky. 1,475,835; Nov. 27.
Engines, Intake manifold for internal-combustion. H. Le Van Horning. 1,475,556; Nov. 27.
Engines, Oil gauge for internal-combustion. J. E., C. L. B., and J. D. Karl. 1,475,268; Nov. 27.
Engines, Piston for internal-combustion. M. E. D. Sorel. 1,475,520; Nov. 27.
Engines, Radiator for internal-combustion. S. J. Matthews. 1,475,508; Nov. 27.
Engines, Starter for explosive. G. H. Gunderson. 1,475,815; Nov. 27.
Engines, Starting mechanism for internal-combustion. H. H. Gordon. 1,475,485; Nov. 27.
Escapement mechanism. H. L. Haynes. 1,475,629; Nov. 27.
Evener or draft equalizer. W. and A. Greenheck. 1,475,486; Nov. 27.
Expansion joint. A. P. Diescher. 1,475,288–9; Nov. 27.
Eyeglasses. J. Gasperi. Des. 63,363; Nov. 27.
Fabric and making the same, Ornamental hand-woven. F. E. Strobmeier. 1,475,659; Nov. 27.
Fabric piler. H. J. Carter. 1,475,428; Nov. 27.
Fan and lamp, Combined. R. L. Mariani. 1,475,845; Nov. 27.
Faucets and the like, Lever-handle for lavatory. P. J. Shea. 1,475,654; Nov. 27.
Fence. C. Swanson. 1,475,415; Nov. 27.
Fence post and stretcher, Combined. W. L. Romback. 1,475,884; Nov. 27.
Filter. W. H. Green. 1,475,577; Nov. 27.
Filter. L. C. Rolls. 1,475,244; Nov. 27.
Finger ring. F. H. Wittstein. Des. 63,384; Nov. 27.
Fire extinguisher. A. L. Cole. 1,475,752; Nov. 27.
Fireplace closure. B. F. Rowe. 1,475,886; Nov. 27.
Fish string. J. L. Simpson. 1,475,891; Nov. 27.
Fishing tackle. R. I. Reed. 1,475,408; Nov. 27.
Fixture device. D. A. Rose. 1,475,885; Nov. 27.
Floor clamp. R. E. Morgan. 1,475,851; Nov. 27.
Floor, deck, or the like, Slatted. S. Gage. 1,475,765; Nov. 27.
Floor or ceiling plate. W. A. Keeney. 1,475,188; Nov. 27.
Floors, walls, and the like, Insert for. J. Hirshstein. 1,475,342; Nov. 27.
Flower box and fernery, Knockdown. O. C. George. 1,475,573; Nov. 27.
Fluid dispensers, Register for. S. B. Chilson. 1,475,368; Nov. 27.
Flush tank. D. J. Herty. 1,475,582; Nov. 27.
Flush tank. D. McNeill. 1,475,841; Nov. 27.
Flytrap. J. Weber. 1,475,357; Nov. 27.
Fob ornament, locket, or similar article. M. B. Gardner. Des. 63,362; Nov. 27.
Folder pocket. P. H. Conneighton. 1,475,542; Nov. 27.
Folding table. R. H. Leatherman and A. M. Yockey. 1,475,401; Nov. 27.
Foot scraper. W. O. Harmon. 1,475,818; Nov. 27.
Forgings, Means for securing trunnions to cradle. B. P. Joyce. 1,475,186; Nov. 27.
Form clamp. G. B. Bosco. 1,475,424; Nov. 27.
Frame: *See*—
Automobile top frame. Vehicle frame.
Display frame.
Fruit-jar-cover fastener and remover. C. G. Overbaugh and F. Kell. 1,475,716; Nov. 27.
Fuel burner. A. M. P. R. Pédaliu. 1,475,553; Nov. 27.
Fuel-burner-igniting device. S. L. Mershon. 1,475,644; Nov. 27.
Fuel saver. F. Francis. 1,475,809; Nov. 27.
Fuller's earth, bone char, and the like, Revivifying finely-divided. F. W. Manning. 1,475,502; Nov. 27.
Furnaces, Air heater for. N. D. Goff. 1,475,228; Nov. 27.
Furnaces and boilers, Grate for. J. W. Piper. 1,475,651; Nov. 27.
Furnaces and the like, Door and door-operating mechanism for. V. Windett. 1,475,731; Nov. 27.
Furnaces, Burner for. W. A. Morton. 1,475,194; Nov. 27.
Furnaces, Construction of and method of operating heating. H. H. Denley. 1,475,373; Nov. 27.
Furnaces, Fuel-saving device for. N. J. Russell. 1,475,599; Nov. 27.
Fuse plug. E. G. Appleton. 1,475,558; Nov. 27.
Fuse plug, Multiple. I. H. and D. L. Terrell. 1,475,200; Nov. 27.
Game. J. H. Anthon. 1,475,734; Nov. 27.
Game board. J. W. Hanley. Des. 63,366; Nov. 27.
Garment. H. G. Sohn. 1,475,892; Nov. 27.
Garter construction. G. W. Peterson and J. P. Yenetis. 1,475,868; Nov. 27.
Gas apparatus, Safety joint for high-pressure. W. F. Keenan, jr. 1,475,705; Nov. 27.
Gas burner. G. D. Wilkinson. 1,475,465; Nov. 27.
Gas cooking top. G. D. Wilkinson. 1,475,466; Nov. 27.
Gas generator. C. Läuchli. 1,475,496; Nov. 27.
Gas heater. A. G. Schneider. 1,475,450; Nov. 27.
Gas, Means for preventing the escape of inclosed. M. C Steese. 1,475,656; Nov. 27.
Gas plant, Suction. G. Erdbrügger. 1,475,291; Nov. 27
Gas tester. T. R. Ernest. 1,475,571; Nov. 27.
Gate-operating mechanism, Automatic. F. R. Ashley 1,475,272; Nov. 27.
Gauge: *See*—
Pressure gauge.
Gear element, Flexible. E. B. Thompson. 1,475,902; Nov. 27.
Gear-operating device, Awning worm-. C. Joseph. 1,475,233; Nov. 27.
Gear shift and speed control, Automatic. H. R. Hoffman. 1,475,265; Nov. 27.
Gear transmission device. R. B. Armstrong. 1,475,468; Nov. 27.
Gear, Variable-speed drive. B. H. Saunders. 1,475,449; Nov. 27.
Generator: *See*—
Acetylene generator. Gas generator.
Current generator. Steam generator.
Generator. A. E. Buchenberg. 1,475,918; Nov. 27.
Generator regulation. R. H. Sullivan. 1,475,251; Nov. 27.
Glass, Drawing. H. J. Walter. 1,475,527; Nov. 27.
Glass-melting pot. F. Osborne. 1,475,650; Nov. 27.
Glass table ornament, Chipped-. J. Peczur. Des. 63,370; Nov. 27.
Glove. L. Cleveland. 1,475,221; Nov. 27.
Gloves and the like, Forming, stretching, and drying support for. A. Meehan. 1,475,193; Nov. 27.
Gloves, Form for baseball. R. F. Nixon, jr. 1,475,239; Nov. 27.
Golf-bag holder. A. E. Smith. 1,475,605; Nov. 27.
Grater, Vegetable. L. Leitman. 1,475,839; Nov. 27.
Gravity of rotary bodies with respect to the axis of rotation, Determining the position of the center of. W. H. Martin. 1,475,848; Nov. 27.
Grinding machine. J. Koziel. 1,475,495; Nov. 27.
Grinding machine, Roller-. J. Ferencz. 1,475,693; Nov. 27.
Grinding machines, Head adjustment for. A. Williams. 1,475,614; Nov. 27.
Guitars and similar instruments, Nut for. T. B. Lambert and L. E. Lively. 1,475,345; Nov. 27.
Gun and carton, Grease. O. H. Watson. 1,475,417; Nov. 27.
Gun, Automatic. G. O. Fisher. 1,475,761; Nov. 27.
Hair curler. F. G. Conine. 1,475,796; Nov. 27.
Hammer, Power. G. Fraser. 1,475,763; Nov. 27.
Hand tool. W. A. Bernard. 1,475,273; Nov. 27.
Handling apparatus, Material. A. F. Case. 1,475,684; Nov. 27.
Hanger: *See*—
Picture hanger.
Harrows, Attachment for disk. T. D. Moran. 1,475,312; Nov. 27.
Hat lining. C. Winkelmann. 1,475,615; Nov. 27.
Hatpin or similar article. A. B. Schapiro. Des. 63,377; Nov. 27.
Head and socket fastener. R. M. Peters. 1,475,865; Nov. 27.
Headlight and the like. F. G. Piner. 1,475,872; Nov. 27.
Headlight, Automobile. O. Fightmaster. 1,475,480; Nov. 27.
Heat-utilizing apparatus. J. Lamassiaude. 1,475,439; Nov. 27.
Heater: *See*—
Electric heater. Manifold heater.
Gas heater. Water heater.
Hot-air heater.
Heel-breasting machine. L. A. Casgrain. 1,475,793; Nov. 27.
Heel for shoes. M. W. Selby. 1,475,412; Nov. 27.
Heels, Machine for operating on. L. A. Casgrain. 1,475,794–5; Nov. 27.
Highway signal. E. H. Medén. 1,475,309; Nov. 27.
Hinge for oven doors. J. F. Lamb. 1,475,838; Nov. 27.
Hinge, Latching. W. Wright. 1,475,335; Nov. 27.
Hoe. G. F. Brackett. 1,475,362; Nov. 27.
Hoist skips, Weighing and loading apparatus for. D. F. Lepley. 1,475,637; Nov. 27.
Hook: *See*—
Drapery hook.
Hopper-door-operating mechanism. F. S. Gallagher. 1,475,572; Nov. 27.
Horn, Resonance. E. Meyer. 1,475,769; Nov. 27.
Hose protector, Air-. O. M. King and A. J. Brooks. 1,475,269; Nov. 27.

Hot-air heater. A. C. Pyle and J. F. Brewer. 1,475,874; Nov. 27.
House number and step illuminator. C. P. Peterson. 1,475,886; Nov. 27.
Humidifier. C. Pohl. 1,475,920; Nov. 27.
Hydrocarbons, Apparatus for distilling. C. W. Thompson. 1,475,901; Nov. 27.
Ice-cream-receptacle-filling means. P. H. Drumm. 1,475,803; Nov. 27.
Ignition system. W. W. Hawkins. 1,475,184; Nov. 27.
Illuminating appliance. W. A. Dorey. 1,475,260; Nov. 27.
Index tab. J. Barker. 1,475,165; Nov. 27.
Indicator: *See*—
Direction indicator. Vehicle direction indicator.
Inkwell. F. C. Luethi. 1,475,840; Nov. 27.
Insecticide. N. E. Morgan. 1,475,445; Nov. 27.
Insulating material for transformers and other high-tension apparatus, Covering plate of. K. Fischer. 1,475,177; Nov. 27.
Internal-combustion engine. E. R. Burtnett. 1,475,426; Nov. 27.
Internal-combustion engine. W. J. Larson. 1,475,440; Nov. 27.
Internal-combustion engine. G. A. Malette. 1,475,641; Nov. 27.
Iron: *See*—
Electric iron.
Jack: *See*—
Lifting jack. Semitrailer jack.
Log-loading jack. Trailer jack.
Joint: *See*—
Concrete-pipe joint. Universal joint.
Expansion joint.
Journal box. J. R. Fleming. 1,475,377; Nov. 27.
Journal-box seat. J. R. Fleming. 1,475,378; Nov. 27.
Knife. R. C. Hartleb. 1,475,301; Nov. 27.
Knitted cap and making the same. S. Rosenberg. 1,475,653; Nov. 27.
Knitted fabric. E. C. Ward. 1,475,333; Nov. 27.
Knitted fabric and its production. I. Springthorpe. 1,475,325; Nov. 27.
Knitting-machine needle. J. G. Hanes. 1,475,182; Nov. 27.
Knitting machines, Sinker for. W. H. English. 1,475,176; Nov. 27.
Lamp, Parking. C. T. Mason. 1,475,443; Nov. 27.
Lamp, Signal. C. E. Godley. 1,475,296; Nov. 27.
Lamp switch, Hand-. F. L. Humeston. 1,475,584; Nov. 27.
Lamps, Lens for vehicle. E. L. Elliott. 1,475,806; Nov. 27.
Latch. S. D. Butterworth. 1,475,169; Nov. 27.
Latch. S. D. Farmer. 1,475,692; Nov. 27.
Lathes, Driving dog for. A. Wood. 1,475,616; Nov. 27.
Lubricator, Automatic. G. L. Moore. 1,475,591; Nov. 27.
Lubricator, Spring. W. Metzger. 1,475,270; Nov. 27.
Leaf spring and spring suspension. R. S. Carter. 1,475,170; Nov. 27.
Lens and blank therefor and marking it for purpose of identification. T. B. Drescher. 1,475,473; Nov. 27.
Lens-testing instrument. W. C. Schlitzer. 1,475,515; Nov. 27.
Lens-tool-grinding machine. J. S. Galeski. 1,475,626; Nov. 27.
Lifeboat release. S. E. Allbin. 1,475,617; Nov. 27.
Lifter: *See*—
Stove lifter.
Lifting jack. N. G. Perry and C. E. Hulting. 1,475,864; Nov. 27.
Light: *See*—
Parking light.
Light and signal device, Combined. J. Johnston. 1,475,343; Nov. 27.
Lighting fixture. M. B. Bowen. Des. 63,356; Nov. 27.
Lighting-fixture standard. J. W. Gosling. Des. 63,364; Nov. 27.
Lighting-fixture shade holder. P. Mohrmann. Des. 63,374–5; Nov. 27.
Lighting system automatic. A. M. Candy. 1,475,746; Nov. 27.
Line switch and connection. F. A. Lundquist. 1,475,499; Nov. 27.
Liquid fuel and producing same, Compounded. L. du P. Clement. 1,475,259; Nov. 27.
Liquid-fuel burner. H. A. Tedman. 1,475,458; Nov. 27.
Liquid holder, Protective. L. Hetu. 1,475,825; Nov. 27.
Liquid-measuring apparatus. G. W. MacKenzie. 1,475,844; Nov. 27.
Liquids, Chain for elevating. E. Gennevois. 1,475,382; Nov. 27.
Liquids, Method of and apparatus for evaporating. M. J. O'Boyle and E. C. Holton. 1,475,314; Nov. 27.
Lock: *See*—
Automobile door lock. Pedal lock.
Nut lock. Wrist-pin lock.
Lock. S. D. Butterworth. 1,475,363; Nov. 27.
Lock. H. D. Steinmark. 1,475,725; Nov. 27.
Locomotive blow-off system. S. Otis. 1,475,717; Nov. 27.
Locomotives and the like, Adjustable guide for crossheads of. H. Shinn. 1,475,453; Nov. 27.
Log-loading jack. W. A. Archibald. 1,475,559; Nov. 27.
Loom. E. F. Dunn. 1,475,261; Nov. 27.
Loom, Fence. J. W. Snedeker. 1,475,324; Nov. 27.
Loom shuttle. J. W. Booth and T. C. Corlass. 1,475,679; Nov. 27.
Loom shuttle-box front guard and guide plate, Combined. P. J. Jones. 1,475,633; Nov. 27.
Loom shuttles, Filling guiding and tension mechanism for. R. E. Norman. 1,475,919; Nov. 27.
Looms, Cloth roll for. H. A. Davis. 1,475,622; Nov. 27.
Looms, Harness motion for. E. M. Ek. 1,475,476; Nov. 27.
Looms, Harness mechanism for. P. G. Gielen. 1,475,546; Nov. 27.
Macaroni and the like, Mechanism for cutting and translating. F. A. N. Cuccia. 1,475,801; Nov. 27.
Magnetic separator. W. G. Swart. 1,475,457; Nov. 27.
Mail pouch. E. J. Sheridan. 1,475,603; Nov. 27.
Mail-pouch catching and delivering device. C. J. M. Weber and A. Olson. 1,475,418; Nov. 27.
Manhole cover. R. R. Rust. 1,475,199; Nov. 27.
Manifold heater. A. E. Tausche. 1,475,356; Nov. 27.
Manipulator. I. D. Thomas and P. H. Douglas. 1,475,728; Nov. 27.
Marker. F. A. Van Orden. 1,475,906; Nov. 27.
Match safe. C. Zeck. Des. 63,385; Nov. 27.
Mattress. E. W. Aldridge. 1,475,771; Nov. 27.
Measurement of the refractive value of the principal point of the eye, Apparatus for the objective. O. Henker. 1,475,698; Nov. 27.
Measuring and registering device, Cloth. W. G. Northup, jr. 1,475,649; Nov. 27.
Measuring device. C. W. Johnson and T. Abtmeyer. 1,475,831; Nov. 27.
Measuring device, Low-frequency. H. S. Osborne. 1,475,240; Nov. 27.
Measuring instrument, Electric. H. L. Decker. 1,475,174; Nov. 27.
Measuring intervals of time, Apparatus for. C. W. Ingels. 1,475,232; Nov. 27.
Meat press and ejector. F. Kruse. 1,475,400; Nov. 27.
Meat-slicing machine. G. Jaquette. 1,475,391–2; Nov. 27.
Mechanical coursing device. F. T. Herbert, sr. 1,475,824; Nov. 27.
Memorandum device. F. S. Jensen. 1,475,303; Nov. 27.
Metal drawer structure. I. Conrad. 1,475,797; Nov. 27.
Milk can. J. O'Brien. 1,475,405; Nov. 27.
Milk-can holder. T. C. Urtasun. 1,475,903; Nov. 27.
Milling machine, Tube-. E. H. Chapman. 1,475,171; Nov. 27.
Mixer. J. J. Vandenplas. 1,475,904; Nov. 27.
Mixing apparatus. A. M. Low. 1,475,638; Nov. 27.
Moccasin. P. G. Meyer. 1,475,646; Nov. 27.
Mop holder. W. Feth. 1,475,479; Nov. 27.
Mop, Polishing. H. M. Sturgis. 1,475,521; Nov. 27.
Motor-control system. H. D. Murdock. 1,475,854; Nov. 27.
Motor-driven mixer. S. J. Poplawski. 1,475,107; Nov. 27.
Motor starter, Automatic. B. W. Jones. 1,475,185; Nov. 27.
Motors, Bearing-housing for electric. C. W. Starker. 1,475,894; Nov. 27.
Motors, Locking device for. F. L. Remy. 1,475,447; Nov. 27.
Necktie. E. P. Adams. 1,475,672; Nov. 27.
Nipple and gasket, Removable. M. A. Barber. 1,475,530; Nov. 27.
Nut lock. J. B. Barnes. 1,475,779; Nov. 27.
Nut-tapping machine. W. R. Morgan. 1,475,711; Nov. 27.
Oil burner. M. W. Wood. 1,475,528; Nov. 27.
Oil burners, Controller for fuel-. F. S. Hudson and E. G. Rhoads. 1,475,433; Nov. 27.
Oil container, Dehydrating. E. J. Hunt. 1,475,548; Nov. 27.
Oil cup. L. Kassander. 1,475,370; Nov. 27.
Oil engine. T. B. Danckwortt. 1,475,370; Nov. 27.
Operating table. I. Conrad. 1,475,798; Nov. 27.
Ordnance sighting apparatus. A. T. Dawson and G. T. Buckham. 1,475,472; Nov. 27.
Ore separator, Magnetic. F. A. Jordan. 1,475,394; Nov. 27.
Ores and the like, Loading machine for. T. R. E. Rundqvist. 1,475,888; Nov. 27.
Ores, Treating. H. S. Mackay. 1,475,843; Nov. 27.
Outlet boxes, Conduit fastener for. E. M. Blake. 1,475,338; Nov. 27.
Oven, Coke. A. Roberts. 1,475,881; Nov. 27.
Paper. E. P. Benois. Des. 63,353; Nov. 27.
Paper, Holding wax sheets of. C. S. Moore. 1,475,712; Nov. 27.
Papers, Apparatus for and method of producing colored nature. T. M. Atkinson. 1,475,923; Nov. 27.
Parking light. W. H. Pearson. 1,475,507; Nov. 27.
Peanuts, Packing and preservation of. A. W. MacIlwaine. 1,475,842; Nov. 27.
Pedal lock. T. J. Pate. 1,475,863; Nov. 27.
Percolator. M. L. Warner. 1,475,334; Nov. 27.
Perforating, Process of and machine for. F. M. Furber. 1,475,181; Nov. 27.
Phonograph-cabinet shutter. J. C. Miller. 1,475,237; Nov. 27.
Phonograph horn, etc. H. C. Egerton. 1,475,623; Nov. 27.
Picture hanger. J. H. Fitz Gerald. 1,475,292; Nov. 27.
Pin. W. A. Johnson. 1,475,702; Nov. 27.
Pin clip. B. G. Vigurs. 1,475,211; Nov. 27.

Pipe cutter. H. H. Eaton. 1,475,374; Nov. 27.
Pipe molds, Method and apparatus for forming. T. P. Anthony. 1,475,217; Nov. 27.
Pipe-repair clamp. W. Clemens and J. White. 1,475,254; Nov. 27.
Piston. R. Allen. 1,475,773; Nov. 27.
Piston. R. J. Woodruff. 1,475,359; Nov. 27.
Piston or piston valve. R. Allen. 1,475,772; Nov. 27.
Piston ring. L. R. Behnke. 1,475,783; Nov. 27.
Piston ring. F. F. Bessinger. 1,475,366; Nov. 27.
Piston ring. S. F. Borkey. 1,475,680; Nov. 27.
Piston-ring grooves, Finishing. G. A. Taylor. 1,475,662; Nov. 27.
Piston-ring remover. A. J. Wakefield. 1,475,665; Nov. 27.
Piston rings, Apparatus for forming. G. A. Taylor. 1,475,661; Nov. 27.
Piston rings, Making. G. A. Taylor. 1,475,660; Nov. 27.
Pit-cage arrester. M. Williams. 1,475,668; Nov. 27.
Pitman end. R. C. Baker. 1,475,531; Nov. 27.
Plane, Extension. F. W. Humphreys. 1,475,700; Nov. 27.
Planer and the like, Electrically-driven. S. Gowan and L. Miller. 1,475,766; Nov. 27.
Plant digger. S. C. Clinkscale. 1,475,686; Nov. 27.
Plaster board. L. E. Armstrong. 1,475,674; Nov. 27.
Pliers. J. Dondero. 1,475,569; Nov. 27.
Pliers with adjustable gap, Parallel-jaw. H. H. Mathis. 1,475,642; Nov. 27.
Plow. A. Mészáros. 1,475,710; Nov. 27.
Plow hitch. W. S. Cothran. 1,475,799; Nov. 27.
Plowshare. O. Brown. 1,475,743; Nov. 27.
Plug receptacle. C. H. Bissell. 1,475,678; Nov. 27.
Poker chips, Advertising device for. R. P. Polizzi. 1,475,652; Nov. 27.
Pompon. A. Bentkamp. 1,475,784; Nov. 27.
Post. H. Neuhaus. 1,475,857; Nov. 27.
Potato cutter. J. A. Canfield. 1,475,276; Nov. 27.
Power plane, Electric. H. R. Patterson. 1,475,506; Nov. 27.
Press: *See*—
Printing press.
Press having spring-pressed blank holders. W. Klocke. 1,475,437; Nov. 27.
Pressure gauge. K. Swanjord. 1,475,252; Nov. 27.
Printing press. P. F. Cox. 1,475,566; Nov. 27.
Projectile. R. A. Hadfield and A. G. M. Jack. 1,475,578; Nov. 27.
Puddling. E. L. Ford. 1,475,762; Nov. 27.
Puller implement. G. E. Friaz. 1,475,810; Nov. 27.
Pump barrel. V. Hamilton. 1,475,817; Nov. 27.
Pump, Centrifugal. H. L. Bell and H. G. Coulson. 1,475,676; Nov. 27.
Pumps, Fraud-prevention means for gas line. H. Kopp. 1,475,707; Nov. 27.
Pumps operated by the engines of automobiles or the like, Means for regulating the output of. R. Esnault-Pelterie. 1,475,508; Nov. 27.
Punching machine. H. A. Holmes. 1,475,828; Nov. 27.
Radiator core. P. F. Spery. 1,475,893; Nov. 27.
Radio receiving systems, Protective device for. H. B. Herty. 1,475,632; Nov. 27.
Radio signaling system. R. Bown. 1,475,219; Nov. 27.
Rail fastener. V. Weleski. 1,475,910; Nov. 27.
Railway and like vehicles, Coupler for. H. Goold-Adams and J. Mitchell. 1,475,812; Nov. 27.
Railway brake beam. S. A. Crone. 1,475,283; Nov. 27.
Railway brake beam. S. A. Crone. 1,475,285; Nov. 27.
Railway-crossing gate and signal. H. C. Carmichael. 1,475,682; Nov. 27.
Railway signaling system. A. E. Hudd. 1,475,388; Nov. 27.
Railway switch. R. N. Perovich. 1,475,407; Nov. 27.
Railway tie. P. J. Harrigan. 1,475,299; Nov. 27.
Range, Combination coal and gas. C. H. Bailey. 1,475,775; Nov. 27.
Range-heating unit, Inclosed. C. J. Fay. 1,475,760; Nov. 27.
Razor-blade holder, Safety-. H. Hopper. 1,475,231; Nov. 27.
Razor blades, Mechanism for sharpening. R. L. Boulter. 1,475,367; Nov. 27.
Reamer. F. P. Miller. 1,475,311; Nov. 27.
Reamer and tap, Combined. J. Bath and H. F. Clifford. 1,475,561; Nov. 27.
Receptacle, Knockdown. E. E. Sutherland. 1,475,897; Nov. 27.
Reel: *See*—
Clothes reel.
Refrigerating machine, Air-. I. Lundgaard. 1,475,234; Nov. 27.
Refrigerating system. M. P. Osbourn. 1,475,504–5; Nov. 27.
Relay. F. A. Lundquist. 1,475,498; Nov. 27.
Reminder signal. R. L. Beach. 1,475,782; Nov. 27.
Repair bottom or plate. G. E. Russell. 1,475,321; Nov. 27.
Resilient wheel. M. Harloe. 1,475,488; Nov. 27.
Resins from phenol and formaldehyde, Manufacture of artificial. I. Pollak and E. Möhring. 1,475,446; Nov. 27.
Resistor. B. O. Austin. 1,475,735; Nov. 27.
Rheostat. W. S. Webster. 1,475,667; Nov. 27.
Ring: *See*—
Piston ring.
Ring. F. L. Steeg. Des 63,380; Nov. 27.
Rivet or the like heating furnace. J. R. C. August. 1,475,218; Nov. 27.
Roof or floor construction. H. E. Marks. 1,475,349; Nov. 27.
Roof or floor construction. H. E. Marks. 1,475,846–7; Nov. 27.
Roofing products, Apparatus for making. C. E. Rahr and R. T. Pollock. 1,475,595; Nov. 27.
Roofing-strip blanks, Forming. F. C. Overbury. 1,475,551; Nov. 27.
Rotary engine. C. L. and L. F. Ragot. 1,475,509; Nov. 27.
Rubber pipes and the like, Adjustable clamp for. R. J. Hammond. 1,475,487; Nov. 27.
Sand cutting and screening machine. H. L. Wadsworth. 1,475,729; Nov. 27.
Sanitary belt. J. Stein. 1,475,985; Nov. 27.
Saw, Drag. G. H. Brown. 1,475,788; Nov. 27.
Saw-filing rig. G. W. Phillips. 1,475,351; Nov. 27.
Scarf, stole, or muffler. M. J. Costello. Des. 63,359; Nov. 27.
Scraping and cutting tool. H. A. Hall. 1,475,816; Nov. 27.
Scuffle for agricultural purposes. A. R. Firkins. 1,475,376; Nov. 27.
Sealing-in machine. J. E. Marshall. 1,475,192; Nov. 27.
Seat: *See*—
Collapsible or foldable seat. Journal-box seat.
Secondary or storage battery. W. E. Kershaw and C. D. Galloway. 1,475,434; Nov. 27.
Securing device. L. J. Hogarty. 1,475,827; Nov. 27.
Securing element. A. Volman. 1,475,907; Nov. 27.
Seed sower, Hand. M. Schling. 1,475,600–1; Nov. 27.
Semitrailer jack. J. Morrison. 1,475,592; Nov. 27.
Separator: *See*—
Magnetic separator.
Sewing machines, Attachment for. A. B. Mattingly. 1,475,235; Nov. 27.
Sewing machines, Bobbin-winding attachment for. J. C. Ringe. 1,475,597; Nov. 27.
Sewing machines, Friction drive for. A. B. Cohn. Re15,726; Nov. 27.
Shackle. A. Belair. 1,475,256; Nov. 27.
Shaking-out device. A. Nelson. 1,475,648; Nov. 27.
Shaving mug. E. D. Van Horsen. 1,475,905; Nov. 27.
Sheet-metal construction. A. T. Holmes. 1,475,387; Nov. 27.
Sheet-separating mechanism. C. E. Christophel. 1,475,621; Nov. 27.
Ships provided with propellers, Means for controlling and reversing. S. Golden. 1,475,695; Nov. 27.
Ship, Stabilized. H. H. Thompson and A. E. Schein. 1,475,460; Nov. 27.
Shock-absorbing system, Vehicle. R. H. Hassler. 1,475,384; Nov. 27.
Shoe. W. H. Cary. 1,475,747; Nov. 27.
Shoe last. F. G. Delbon. 1,475,690; Nov. 27.
Shoe-soling tool. P. J. Dever. 1,475,287; Nov. 27.
Shotgun, Double-barreled. G. O. Fisher. 1,475,262; Nov. 27.
Sickle holder. L. A. Norland. 1,475,858; Nov. 27.
Sign or similar article. F. Turpin. Des. 63,381; Nov. 27.
Signal: *See*—
Automobile signal. Reminder signal.
Highway signal.
Signal. W. A. Rogers. 1,475,513; Nov. 27.
Signal system, Chromatic light. D. J. McCarthy. 1,475,709; Nov. 27.
Signal-transmitting system. W. R. G. Baker. 1,475,164; Nov. 27.
Signaling system. G. A. Pierce. 1,475,594; Nov. 27.
Skate. S. De Orlow. 1,475,224; Nov. 27.
Skylights and the like, Glazing bar for. J. Sylvan. 1,475,416; Nov. 27.
Sled. L. Aptowicz. 1,475,529; Nov. 27.
Sled. J. G. Regan. 1,475,877; Nov. 27.
Snap and buckle. L. P. Babeuf. 1,475,420; Nov. 27.
Soap, Manufacture of. J. Tseng. 1,475,663; Nov. 27.
Soldered tube, Manufacturing. H. W. Bundy. 1,475,258; Nov. 27.
Sound box. J. D. Cummings. 1,475,754; Nov. 27.
Sound-detecting device. I. Langmuir. 1,475,190; Nov. 27.
Sound-reproducing machine. F. Cirelli. 1,475,541; Nov. 27.
Sound-signal transmitter, Subaqueous. H. Hecht and F. Schenkelberger. 1,475,385; Nov. 27.
Spade. A. J. and R. R. Thibault. 1,475,899; Nov. 27.
Spinning frames, Stop motion for. J. W. Cauthen. 1,475,220; Nov. 27.
Spinning mule. R. Roth. 1,475,318; Nov. 27.
Spoke wrench. W. E. Kadow. 1,475,834; Nov. 27.
Sponge spray, Auto. E. Christensen. 1,475,748; Nov. 27.
Spring bushing. A. O. Judson. 1,475,344; Nov. 27.
Spring hitch. W. F. Henderson. 1,475,230; Nov. 27.
Stair, Portable. J. L. Ballenger. 1,475,777; Nov. 27.
Stand or desk, Reading. J. H. Russell. 1,475,889; Nov. 27.
Stay-bolt structure. E. I. Dodds. 1,475,474; Nov. 27.
Steam ejectors, Exhaust arrangement for. M. Leblanc. 1,475,441; Nov. 27.
Steam generator. B. J. N. Marden. 1,475,589; Nov. 27.
Steering wheels, Making. H. E. Sheller. 1,475,602; Nov. 27.

Stick, Transformable walking. R. A. Breul. 1,475,740; Nov. 27.
Stock-watering system. W. Mitchell and H. R. King. 1,475,403; Nov. 27.
Stocking board. H. Coulston. 1,475,753; Nov. 27.
Stoker, Mechanical. J. S. Stogdale. 1,475,361; Nov. 27.
Stoker, Underfeed. J. A. Flemings. 1,475,624; Nov. 27.
Storage battery. S. M. Meyer and W. James. 1,475,503; Nov. 27.
Stove. E. E. Mason. 1,475,849; Nov. 27.
Stove, Combination gas and electric. J. T. Templeton. 1,475,608; Nov. 27.
Stove door. W. L. Mersfelder. 1,475,236; Nov. 27.
Stove and cabinet, Kitchenette. J. E. Leonard. 1,475,587; Nov. 27.
Stove lifter. S. R. Rogers. 1,475,883; Nov. 27.
Stove, Pocket. H. W. Allport. 1,475,163; Nov. 27.
Stream improvement. R. H. Thornton. 1,475,461; Nov. 27.
Stripping bar. E. W. Davis. 1,475,371; Nov. 27.
Sucker-rod remover. E. Pace. 1,475,861; Nov. 27.
Superheater. J. J. Nellis. 1,475,924; Nov. 27.
Surface-finishing machine. S. K. Brown. 1,475,681; Nov. 27.
Switch: *See*—
Lamp switch. Railway switch.
Switch. E. H. Jacobs. 1,475,549; Nov. 27.
Switch and connection, Selector. F. A. Lundquist. 1,475,500; Nov. 27.
Switch throws, Spring connecting rod for. W. F. Henke and C. H. Partington. 1,475,386; Nov. 27.
Switching mechanism. F. A. Lundquist. 1,475,501; Nov. 27.
Table: *See*—
Folding table. Operating table.
Table top, Enameled-metal. A. E. Clarke. Des. 63,357; Nov. 27.
Tag or label holder. C. Quin. 1,475,315; Nov. 27.
Talking-machine-needle holder. C. J. Ferguson. 1,475,227; Nov. 27.
Tank: *See*—
Flush tank.
Tank cap. J. F. Harwood. 1,475,183; Nov. 27.
Tank cover, Transformer-. R. V. Bingay. 1,475,533; Nov. 27.
Tapes to garments, Method and means for attaching fastener. J. Siegel. 1,475,604; Nov. 27.
Tappet silencer. F. M. Albrecht. 1,475,557; Nov. 27.
Target apparatus. G. A. Kerestes. 1,475,493; Nov. 27.
Target-throwing machine, Motor-driven. C. H. Napier. 1,475,713; Nov. 27.
Teeth, Implement for cleaning. T. A. Buckley. 1,475,789; Nov. 27.
Telemeter. A. König. 1,475,706; Nov. 27.
Telephone and high-tension conductors, Insulator for. J. Romandy. 1,475,722; Nov. 27.
Telephone exchange, Automatic. F. A. Lundquist. 1,475,497; Nov. 27.
Telephone-exchange system. J. F. Toomey. 1,475,201; Nov. 27.
Telephone plants, Circuit arrangement for. G. A. Betulander and N. G. Palmgren. 1,475,562; Nov. 27.
Telephone system. G. A. Yanochowski. 1,475,216; Nov. 27.
Telephone system, Measured-service. J. Wicks. 1,475,612–13; Nov. 27.
Telephone system, Multioffice. T. G. Martin and B. D. Willis. 1,475,590; Nov. 27.
Telephony and telegraphy, Multiple-wire cable for high-frequency. L. Relistab. 1,475,878; Nov. 27.
Temperatures, Apparatus for measuring high. J. L. Schueler and C. A. Kellogg. 1,475,365; Nov. 27.
Testing device. L. W. Chubb. 1,475,749; Nov. 27.
Tie: *See*—
Bale tie. Railway tie.
Tie, Built-up. W. G. Coughlin. 1,475,429; Nov. 27.
Timer. A. C. Hartman. 1,475,820; Nov. 27.
Timer oiler. G. W. Mead. 1,475,643; Nov. 27.
Timers, Contact for. A. C. Hartman. 1,475,819; Nov. 27.
Tin and antimony, Refining. G. Bonnard. 1,475,422; Nov. 27.
Tire armor. L. Hitchcock. 1,475,302; Nov. 27.
Tire and making same, Cord. W. B. Harsel. 1,475,300; Nov. 27.
Tire construction. E. H. Dickensheet. 1,475,225; Nov. 27.
Tire-inflating nipple. A. Mull. 1,475,853; Nov. 27.
Tire, Inner. A. J. Stephens. 1,475,326; Nov. 27.
Tire of the chamber type, Cushion. J. Cairnes. 1,475,427; Nov. 27.
Tire protector. W. A. Johnson. 1,475,266; Nov. 27.
Tire-removing tool. C. B. Snider. 1,475,517–19; Nov. 27.
Tires, Tool for repairing punctured. S. Shapiro and M. Weinberg. 1,475,353; Nov. 27.
Tire, Tread for a vehicle. R. H. Waters. Des. 63,382–3; Nov. 27.
Tire valves, Device to unseat. L. B. Solemink. 1,475,249; Nov. 27.
Toilet article. J. MacInnes. 1,475,490; Nov. 27.
Tone-arm support. F. Cheney. 1,475,277; Nov. 27.
Tool for manual direction. H. B. Mayberry. 1,475,444; Nov. 27.
Tool holder, Pneumatic. L. C. Cole. 1,475,287; Nov. 27.
Torpedo, Railway signal. F. Dutcher. 1,475,805; Nov. 27.
Towel holder. F. J. Tefft. 1,475,898; Nov. 27.
Toy. W. F. Cobb. 1,475,339; Nov. 27.
Toy. J. J. Lozowsky. 1,475,588; Nov. 27.
Toy. F. Strauss. Des. 63,378; Nov. 27.
Toy vehicle. A. C. Gilbert. 1,475,575; Nov. 27.
Tractor connection for agricultural implements. I. Trolley. 1,475,202; Nov. 27.
Tractor connection for agricultural implements. I. Trolley. 1,475,204–5; Nov. 27.
Tractor connection for agricultural implements. I. Trolley. 1,475,207–8; Nov. 27.
Tractor hitch. I. Trolley. 1,475,206; Nov. 27.
Tractor hitch for agricultural implements. I. Trolley. 1,475,203; Nov. 27.
Tractor hitch. A. E. Imler. 1,475,390; Nov. 27.
Tractor wheel. G. C. Davison. 1,475,544; Nov. 27.
Tractors, Clutch-pedal operator for. J. H. Stroh. 1,475,727; Nov. 27.
Trailer jack. C. W. Ripsch. 1,475,598; Nov. 27.
Translucent sheet, Flexible. G. D. Anderson. 1,475,774; Nov. 27.
Transmission mechanism. O. Shaffer. 1,475,516; Nov. 27.
Trap: *See*—
Animal trap.
Tray, Jewelry. G. C. Rueckert. 1,475,319; Nov. 27.
Trigger mechanism and safety device therefor. E. E. Miller. 1,475,310; Nov. 27.
Trousers. R. C. Naylor. 1,475,195; Nov. 27.
Truck. J. Galuska. 1,475,483; Nov. 27.
Truck and attachment therefor. J. Bergstrom. 1,475,785; Nov. 27.
Trunk. K. L. Robertson. 1,475,882; Nov. 27.
Truss. J. Elhorn. 1,475,475; Nov. 27.
Tube: *See*—
Soldered tube.
Tube cleaner, Automatically-acting and permanently-residing. D. Evans. 1,475,431; Nov. 27.
Tubes, Cap for collapsible. J. W. Johnson. Des. 63,368; Nov. 27.
Turbine, Elastic-fluid. O. Junggren. 1,475,267; Nov. 27.
Turbine, Elastic-fluid. G. B. Warren and H. L. Wirt. 1,475,212–14; Nov. 27.
Turbine, Hydraulic. R. S. Hyatt. 1,475,389; Nov. 27.
Turntable-braking means. M. Weil. 1,475,464; Nov. 27.
Tweezers. M. M. Corey. 1,475,689; Nov. 27.
Typewriting machine. E. E. Barney. 1,475,619; Nov. 27.
Typewriting machine. A. Utz. 1,475,664; Nov. 27.
Typing-speed recorder. A. E. Oswald. 1,475,715; Nov. 27.
Union suit. D. Atwater. 1,475,560; Nov. 27.
Universal joint. E. A. Turnquist. 1,475,462; Nov. 27.
Valve. T. Douglas. 1,475,175; Nov. 27.
Valve. J. A. Sahuc. 1,475,554; Nov. 27.
Valve, Auxiliary-air-inlet shut-off. C. A. Rivers and F. B. Stuart. 1,475,721; Nov. 27.
Valve, Fluid-pressure-actuated switch. H. B. Hartman. 1,475,697; Nov. 27.
Valve for air pumps and means for actuating same. L. F. Hoffman. 1,475,826; Nov. 27.
Valve for carburetors, Auxiliary air-inlet. W. E. Kent. 1,475,837; Nov. 27.
Valve for single-chamber air-pressure brakes. W. Hildebrand. 1,475,432; Nov. 27.
Valve, Gate. J. J. Leach. 1,475,191; Nov. 27.
Valve, Tank. J. Yorks. 1,475,670; Nov. 27.
Vehicle body. C. A. Wales. 1,475,329; Nov. 27.
Vehicle body construction and upholstery therefor. S. S. Bonel. Re15,725; Nov. 27.
Vehicle clutch control, Motor-. J. Wasserman. 1,475,909; Nov. 27.
Vehicle direction indicator. R. J. Ellis. 1,475,807; Nov. 27.
Vehicle frame. C. A. Wales. 1,475,328; Nov. 27.
Vehicle frame. C. A. Wales. 1,475,330; Nov. 27.
Vehicle frame. C. A. Wales. 1,475,332; Nov. 27.
Vehicle, Motor. D. W. Batterman. 1,475,781; Nov. 27.
Vehicle, One-step dirigible. C. A. Wales. 1,475,331; Nov. 27.
Vehicle top, Motor-. A. Morris and E. H. Houtz. 1,475,852; Nov. 27.
Vehicles, Auxiliary power carrier for. E. B. Cushman. 1,475,223; Nov. 27.
Vehicles, Differential drive for motor. J. L. Mapes. 1,475,307; Nov. 27.
Veil holder. M. A. Day. 1,475,173; Nov. 27.
Vending machine. J. H. Walter. 1,475,730; Nov. 27.
Ventilator. J. K. Robinson. 1,475,317; Nov. 27.
Vessel propelled by gas discharged below the water level. H. A. J. de Bijll Nachenius. 1,475,393; Nov. 27.
Violin. A. Branni. 1,475,423; Nov. 27.
Violin. H. A. S. Stahl. Des. 63,379; Nov. 27.
Vise, Quick-action. J. Anderson. 1,475,618; Nov. 27.
Waffle leaves one above the other, Machine for the automatic spreading and filling of. E. Seitz. 1,475,452; Nov. 27.
Wagon box and end gate, Combined. J. Woods. 1,475,732; Nov. 27.
Wall construction, Packed. G. R. Dye. 1,475,570; Nov. 27.
Wall, Hanging. C. S. Burtis. 1,475,539; Nov. 27.
Walls, Decorating. B. Soglow. 1,475,922; Nov. 27.
Washing board, Domestic. A. Shuttleworth. 1,475,454; Nov. 27.
Washing machine, Receptacle-. V. Medici. 1,475,850; Nov. 27.

Washing machines, Driving mechanism for. H. E. Williamson. 1,475,913; Nov. 27.
Washing mechanism. E. B. Spencer. 1,475,607; Nov. 27.
Water filter. G. Blaufuss. 1,475,534; Nov. 27.
Water heater, Electric. O. Meyer-Keller. 1,475,645; Nov. 27.
Water heater, Kitchen-range. P. O. Patterson. 1,475,593; Nov. 27.
Water power. G. H. Ahlbrecht. 1,475,271; Nov. 27.
Water, Treating. P. Kestner. 1,475,396; Nov. 27.
Water-tube boiler. A. Ross. 1,475,411; Nov. 27.
Weather strip. L. A. Macklanburg. 1,475,640; Nov. 27.
Welded joints, Method and appliance useful in producing. A. Krebs. 1,475,189; Nov. 27.
Weighing apparatus. C. de Graaf, jr., and E. Burman. 1,475,547; Nov. 27.
Well tool, Oil-. W. P. Stampfil. 1,475,456; Nov. 27.
Wheel: *See*—
Resilient wheel. Tractor wheel.
Wheel, pulley, or the like. S. Rees. 1,475,511; Nov. 27.
Wheels, Driving lug for demountable rims of vehicle. W. N. Booth. 1,475,167; Nov. 27.
Winder. H. D. Colman. 1,475,688; Nov. 27.
Winding machine, Universal. C. H. Smith and A. E. Hampson. 1,475,655; Nov. 27.
Window scaffold. C. R. Basini. 1,475,780; Nov. 27.
Windshield cleaner. F. G. and W. M. Folberth. 1,475,625; Nov. 27.
Windshields, Adjustable visor for vehicle. H. D. Naterman. 1,475,647; Nov. 27.
Wire-block stripper. E. E. Kilmer and F. P. Groth. 1,475,435–6; Nov. 27.
Wire fabrics, Producing. A. Purves. 1,475,352; Nov. 27.
Wire-straightening machine. H. V. Backus. 1,475,736; Nov. 27.
Wire tightener, Flat or round. C. J. Rothermel. 1,475,245; Nov. 27.
Wireless selection system. R. B. Goldschmidt. 1,475,297; Nov. 27.
Wrench: *See*—
Adjustable wrench. Spoke wrench.
Wrench and can opener. J. Callista. 1,475,791; Nov. 27.
Wrist-pin lock. A. A. Lovejoy. 1,475,346; Nov. 27.
Yarn clearer. D. Gravel. 1,475,814; Nov. 27.
Yarn-printing machine. A. Hanson, sr. 1,475,628; Nov. 27.
Yeast, Manufacturing. R. L. Corby and R. Glasgow. 1,475,471; Nov. 27.
Yeast manufacture. H. A. Kohman, R. Irvin, and R. J. Cross. 1,475,494; Nov. 27.
Yeast, Manufacture of. A. Wohl. 1,475,215; Nov. 27.

CLASSIFICATION OF PATENTS

ISSUED NOVEMBER 27, 1923.

NOTE.—First number=class, second number=subclass, third number=patent number.

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[Decisions of the Court of Appeals of the District of Columbia are indicated by a star (*), of the United States Circuit Court of Appeals by the letter (d).]

ERRATA.

1,477,071, page 398, first claim, line 7, after the word "thereof" insert the words *and a guard piece extending forwardly of said loop.*

1,477,125, page 409, claim, line 4, strike out the words "to a point above said receptacle."

1,477,468, page 476, in heading, assignment, after the word "assignor" insert the words *of one-half.*

Patents Nos. 1,475,925 to 1,476,675.

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Total	1042		

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

1,036,427, C. S. Bird, Building material, suit filed Oct. 30, 1923, D. C., S. D. Ohio, Doc. 329, *C. S. Bird* v. *P. Carey Mfg. Co.*

1,113,149, E. H. Armstrong, Wireless receiving systems, suits filed Oct. 25, 1923, D. C., N. D. Calif., Doc. 1126, *Westinghouse Electric & Mfg. Co.* v. *Lambert & Bessey (The Radio Shop)*. Same, Doc. 1127, *Westinghouse Electric & Mfg. Co.* v. *Oard & McCoy (Oard Radio Laboratories)*.

1,147,307, F. M. Case, Cleaner, suit filed Oct. 19, 1923, D. C., E. D. Wis., Doc. C. D. 1362, *The Hoover Co.* v. *Hamilton-Beach Mfg. Co.*

1,206,780, F. H. Scantlebury, Method of sand-blast carving, suits filed Oct. 23, 1923, D. C., D. Vt., Doc. E 77, *Phoenix Machine Co., Inc.*, v. *Smith & Webster (J. P. Corskie & Sons)*. Same, Doc. E 78, *Phoenix Machine Co., Inc.*, v. *Woodbury Granite Co., Inc.*

1,206,949, H. L. Vaughan, Key holders, suit filed Sept. 29, 1923, D. C., N. D. Ill., Doc. 3754, *H. L. Vaughan* v. *G. Felsenthal & Sons et al.*

1,207,100, H. L. Vaughan, Bottle opener, suit filed Sept. 29, 1923, D. C., N. D. Ill., Doc. 3753, *H. L. Vaughan* v. *Sure Seal Bottle Capper Co.*

1,209,300, S. M. Jacoby, Fur-beating machines, suit filed Oct. 29, 1923, D. C., S. D. N. Y., Doc. E 19/226, *S. M. Jacoby* v. *F. Osann Co.* Order dismissing appeal to the circuit court of appeals filed Aug. 7, 1923.

1,248,631, M. Dickerson, Air purifier and humidifier, suit filed Sept. 21, 1923, D. C., N. D. Ill., Doc. 3747, *American Air Purifier Corp.* v. *H. A. Hoover.*

1,286,798, L. J. Scheinman, Garments and belts therefor, suit filed Jan. 4, 1923, D. C., S. D. N. Y., Doc. E 23/7, *Governform Corp.* v. *"Abraham" Terry.* Decree adjudging patent invalid as to claim 4, valid as to claim 1, not infringed. Bill of complaint dismissed Oct. 29, 1923.

1,397,453, J. J. Rekar, Lamp, suit filed Aug. 28, 1923, D. C., S. D. Calif., Doc. H-13, *J. J. Rekar* v. *A. Dorsz.*

1,411,391, J. D. Tucker, Spoke tightener, suit filed Oct. 1, 1923, D. C., D. Utah, Doc. E 7825, *Tucker Bros. Mfg. Co.* v. *C. C. Simmons et al.*

1,412,836, J. Botnar, Stitch-removing device, suit filed Oct. 31, 1923, D. C., D. Mass., Doc. E 1868, *S. B. Abbott* v. *M. A. Fiske & Co.*

1,431,450, Gorman, Frankel & Wohlgezohn, Coupling for electric-light fixtures, suit filed Sept. 7, 1923, D. C., N. D. Ill., Doc. 3734, *Electrical Dealers Supply House* v. *Metropolitan Electric Supply Co.*

1,449,449, J. H. Sayres, Line-throwing gun, suit filed Oct. 30, 1923, D. C., S. D. N. Y., Doc. E 27/286, *J. H. Sayres* v. *Stewart Davit and Equipment Corp.*

Access to Pending Applications.

No person except the applicant, the assignee whose assignment is of record, or the attorney of record will be permitted to have access to the file of any application, except as provided for under the interference rules, unless written authority from the applicant, assignee, or attorney, identifying the application to be inspected, is filed in the case to become a part of the record thereof, or upon the written order of the Commissioner, which will also become a part of the record of the case.

Condition of Applications Under Examination at Close of Business November 23, 1923

(Total number of applications awaiting action, excluding Trade-Mark Division, 68,716; Trade-Mark Division, 2,457. Oldest new case, Jan. 25, 1923; oldest amended, Feb. 5, 1923. The dates given are 1923.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators: Fences; Gates; Harrows and Diggers; Plant Husbandry; Plows; Planting; Scattering Unloaders.	Mar. 5	Feb. 26	1,274
128	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Mar. 26	Apr. 3	1,232
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	June 7	June 21	1,092
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Feb. 28	May 3	1,457
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Feb. 7	Feb. 5	1,495
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Feb. 20	Apr. 12	1,836
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	Apr. 3	Apr. 2	2,588
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	June 1	June 12	1,719
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	Apr. 7	Oct. 2	789
235	10. BARTHOLOMEW, J. A., Motor Vehicles; Land Vehicles—Animal Draft Appliances, Bodies and Tops, Dumping, Wheel Substitutes.	Mar. 19	June 18	1,424
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skin, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	June 4	June 9	826
322	12. PIERCE, F. P., Machine Elements	Mar. 23	Mar. 16	1,290
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	Apr. 12	June 13	1,194
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Feb. 28	Oct. 10	1,052
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Feb. 7	Feb. 27	1,989
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Mar. 1	Mar. 2	2,607
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Association or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Mar. 1	June 18	1,444
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	Feb. 26	Feb. 23	2,001
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	Apr. 23	Aug. 15	1,199
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Dentistry; Locks and Latches; Safes; Undertaking.	Apr. 18	May 5	1,416
212	21. THURBER, W. L., Winding and Reeling; Textiles—Braiding, Netting, or Lace Making, Cloth Finishing, Fiber Preparation, Knitting, Spinning, Twisting or Twining, Weaving.	Feb. 16	Aug. 17	969
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Apr 4	Apr. 28	512
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	Feb. 9	Feb. 8	693
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Mar. 19	Apr. 28	1,114
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Cutlery; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Gas Separation.	July 2	June 23	950
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Mar. 13	Mar. 15	960
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Mar. 29	Apr. 2	1,377
225	28. BENSON, A. R., Internal-Combustion Engines	June 2	May 1	1,281
147	29. MORRIS, E. N., Abrading; Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Feb. 27	May 14	1,260
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Apr. 2	Sept. 26	1,250
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar, Starch, and Carbohydrates; Concentrating Evaporators.	Mar. 20	Mar. 21	1,535
120	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Feb. 2	Feb. 5	1,331
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	Apr. 2	Feb. 20	1,569
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	Apr. 14	May 4	951
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	June 19	Aug. 6	814
265	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	May 11	Apr. 3	1,943
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Mar. 26	Mar. 20	1,798
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Feb. 17	Mar. 12	1,778
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Jan. 25	Feb. 9	1,227
271	40. OBERLIN, J. J., Baggage; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles Special Receptacles and Packages; Wooden Receptacles.	Mar. 1	July 12	1,979
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Apr. 2	May 16	998
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Mar. 20	Mar. 24	1,724
382	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons: Electricity, Medical and Surgical; Fire Extinguishers; Medicines; Sewerage; Surgery; Liquid Separation or Purification.	Mar. 22	Feb. 27	1,760
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	Mar. 12	June 16	1,125
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	May 24	Apr. 10	1,494
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Apr. 25	May 18	1,310
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time-Controlling Mechanism.	Mar. 17	May 31	1,157
116	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Feb. 1	Feb. 6	2,360
383	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	Mar. 29	May 7	569
102	DESIGNS: C. O. MARKHAM (Acting)	Aug. 3	Sept. 15	1,007
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. Trade-Marks	Oct. 1	Oct. 25	2,375
	Labels and Prints	Nov. 12	Nov. 17	82

DECISIONS IN PATENT AND TRADE-MARK CASES.

Commissioner's Decisions.

EX PARTE WINSLOW.

Decided June 21, 1922.

ESTOPPEL—COPYING CLAIMS FROM A PATENT.

By waiting more than two years after the grant of the Foster patent before copying Foster's claim W. loses the benefit of his filing date and must be considered as making his application for this invention not earlier than the day he copied the claim, although he made a prima facie case of disclosure to Foster before Foster filed his application. Foster's patent is, therefore an absolute bar. (*Browning* v. *Johnson*, 1921, C. D., 203, distinguished.)

ON PETITION.

BOILER.

Messrs. Brown, Boettcher & Dienner for the applicant.

KINNAN, *Acting Commissioner:*

On August 4, 1921, after a decision by the Examiners in Chief and cancellation of the rejected claims, Winslow filed an amendment copying a claim from the patent to Foster and presenting two other claims including the same subject matter. These claims were presented nearly four years after the grant of Foster's patent, and prior to the filing of the amendment presenting them there had been no claims in Winslow's application covering this subject matter. The Examiner refused to enter the claims on the ground that he had no authority to do so, since the new claims were directed to a different subject matter from any that had ever been presented in this case and would necessitate a new search. From this action a petition was taken August 22, 1921. The petition alleges, among other things, that a contract for a joint demonstration between the Winslow Safety High Pressure Boiler Co., the assignee of the applicant, and the Power Specialty Co., assignee of Ernest H. Foster, was arranged during December, 1915, and that said demonstration in public took place during the years 1916 and 1917. The petitioner prays that the Examiner be directed to enter the amendment and examine the claims and that the Examiner declare an interference with the patent to Foster upon such conditions and under such requirements as will satisfy the practice outlined in *Rowntree* v. *Sloan* (227 O. G., 744; 45 App. D. C., 207) and *Browning* v. *Johnson* (287 O. G., 785; 50 App. D. C., 335). The Examiner noted that the amendment was not accompanied by a supplemental oath and stated his belief that the case of *Browning* v. *Johnson* (287 O. G., 785) is not applicable to this case.

On September 27, 1921, the petition was denied without prejudice to its renewal if the petitioner could show that this case does not fall under the rulings of *Rowntree* v. *Sloan* and *Chapman* v. *Wintroath* (272 O. G., 913; 252 U. S., 126). It was pointed out that the question of originality did not appear to be involved, as it was in the case of *Browning* v. *Johnson*. The response filed October 21, 1921, is accompanied by a showing which makes at least a prima facie case of disclosure by Winslow to Foster and his associates some time before Foster filed his application. Exhibit A, Figure 13, and page 20, Exhibit B, Exhibit C, and pages 2 and 6 of Dienner's affidavit are especially pertinent. No particular showing has been made in support of the contention that the case does not fall under the rulings of *Rowntree* v. *Sloan* and *Chapman* v. *Wintroath* in addition to the evidence as to lack of originality on the part of Foster.

In *Chapman and Chapman* v. *Wintroath* (1920, C. D., 465) the Supreme Court of the United States held that an applicant might copy claims from a patent at any time within two years from the grant of the patent, basing its decision on analogy to sections 4886, 4887, and 4920, Revised Statutes, all of which except one permit an applicant to file an application claiming the subject matter of a prior patent, foreign or domestic, only within two years from the grant of the patent. In these sections of the statutes it is immaterial whether the prior patent was wrongfully obtained or not. It may have been a foreign patent obtained by a person who does not even claim to be the inventor. It is a bar, just as public use or prior publication is a bar, because of the laches of the later applicant.

In this decision it was stated as a settled principle that the rights of the applicants who copied claims from a patent could not be denied on the ground that the delay (20 months) may have been prejudicial to public or private interests.

In *Browning* v. *Johnson* (C. D., 1921, p. 203) only private interests were in dispute. The court merely held that because the patentee derived his invention from the applicant neither he (the patentee) nor his associates were entitled to benefit from the monopoly conferred by the patent, since they were not in position to charge the applicant with lack of diligence, laches, or public use. Any other person or the Commissioner of Patents could have urged the bar of public use, and there is just as good ground for urging laches or lack of diligence, because the public interests may still be pleaded, notwithstanding the disability of the patentee to urge his private interests.

In the present case Winslow by waiting more than two years after the grant of the Foster patent before copying Foster's claim loses the benefit of his filing date and must be considered as mak-

ing his application for this invention not earlier than the day he copied the claim. Foster's patent is therefore an absolute bar.

The petition to enter the amendment is granted. The Examiner will enter the amendment, reject the claims, and require a supplemental oath.

The petition that the Examiner declare an interference with the patent to Foster is denied.

EX PARTE COMSTOCK.

Decided June 14, 1923.

PRACTICE UNDER RULE 139 WHEN CASE IS REOPENED BEFORE PRIMARY EXAMINER.

Where the Examiners in Chief attach to their decision a recommendation, under rule 139, that certain of the claims deemed patentable by them over the art cited by the Examiner be rejected upon a new reference, not of record in the case, and the applicant elects to return to the Primary Examiner, the case is not reopened for all purposes, but only to enable the applicant to overcome the effect of the new references or reasons cited in the recommendations of the Examiners in Chief.

ON PETITION.

METHOD AND SYSTEM FOR PRODUCING A PLURALITY OF IMAGES, ETC.

Messrs. Roberts, Roberts & Cushman and *Messrs. Cushman, Bryant & Darby* for the applicant.

KINNAN, *First Assistant Commissioner:*

This is a petition that the Primary Examiner be directed—

to enter the amendment of September 1, 1922 and render a full action upon the merits of the application in accordance with the state of the art relied upon by the Examiner and the Examiners-in-Chief for the denial of a patent, in compliance with law.

From the record it appears the Examiner finally rejected certain claims, allowing others, and on appeal the Examiners in Chief affirmed the Examiner's decision as to some of the appealed claims and reversed it as to others. They attached to their decision, however, a recommendation, under the provisions of rule 139, that certain of these claims, deemed patentable by them over the art cited by the Examiner, be rejected upon a new reference, not of record in the case.

Under these conditions the applicant, as is fully set forth in rule 139, had three courses open to him; he could, without more ado, appeal to the Commissioner; he could ask the Examiners in Chief for a reconsideration, and if they adhered to their former decision he could then appeal to the Commissioner, and, lastly, applicant could return to the Primary Examiner and make such a showing by amendment or by facts as would overcome the new ground of rejection embodied in the recommendation of the Examiners in Chief. Should applicant succeed in making such a showing as satisfied the primary Examiner, the latter would allow the claims without further reference to the Examiners in Chief. Should applicant, however, fail to make such a showing, appeal could again be taken to the Examiners in Chief.

As has been well set forth in the ruling in *ex parte Dieterich* (142 O. G., 568) and *ex parte Lindsey* (156 O. G., 1067), and as is substantially stated in rule 139, where the applicant elects to return to the Primary Examiner the case is not reopened for all purposes, but only to enable the applicant to overcome the effect of the new reference or reasons cited in the recommendations of the Examiners in Chief. The case is not reopened for the consideration of other matters or claims which were or should have been presented and decided prior to or in the original appeal. The case is reopened only to enable the applicant to meet the new ground of rejection.

In the instant case, petitioner filed an appeal to the Commissioner, but before prosecuting such an appeal elected to first return to the Primary Examiner and seek to overcome the effect of the new reference or ground of rejection. After the decision of the Examiners in Chief the Primary Examiner properly entered a rejection of the claims involved in accordance with the recommendation of the Examiners in Chief. Thereafter applicant presented an amendment canceling one of the claims thus rejected and submitting, in lieu thereof, four new claims, which the Examiner refused to admit, holding that these new claims were not directed to features overcoming the new reference, but to other matter already adjudicated. The Examiner states these claims—

are drawn along the lines of certain claims presented after the final rejection of Nov. 16, 1921, which were refused admission by the Examiner and which the Examiners-in-Chief refused to consider on appeal.

He also states the new claims—

appear to be similar to claims previously canceled in response to a rejection by the Examiner.

Neither of these statements is traversed by petitioner; but the latter urges he is entitled to a consideration of his amendment because the practice followed by the Examiner and indicated in the above noted decisions does "not apply in the case of a first rejection on a new reference (rule 68)." I am unable to find merit in this contention of the applicant. The action of the Examiner was clearly right and in accordance with the settled practice.

The petition is denied.

PITTSBURGH BREWING COMPANY AND TECH FOOD PRODUCTS COMPANY *v.* RUBEN.

Decided July 27, 1923.

1. TRADE-MARKS—PURCHASE OF MARK AND GOODWILL FROM ONE WHO HAD BEEN LONG OUT OF BUSINESS.

Where a person was in the tobacco business for a number of years and then was out of the business so long that he had neither goodwill nor business to convey, the applicant obtained no rights through his purchase of the mark and goodwill of such person, since the latter had none to transfer.

2. SAME—GOODS NOT DECEPTIVELY SIMILAR.

Cigars and tobacco belong to a class of goods which is neither the same nor deceptively similar to near beer, soft drinks, and ice cream, and these classes are so different that there is no likelihood of confusion of reputation or origin, even where the goods are all sold by the same dealers and the marks are substantially the same.

3. SAME—CONSTRUCTION OF SECTION 5 OF ACT OF 1905—"TECH" WRITTEN ON PLAID BACKGROUND NOT MERELY A MATERIAL PART OF OPPOSER'S CORPORATE NAME.

The word "Tech" written in white scrip upon a plaid background is not *merely* the corporate name of the Tech Food Products Company or a material part of it, and since the class of goods is so dissimilar that the possibility of damage is remote *Held* that the words of the statute "merely the name" should be liberally construed in favor of the applicant.

APPEAL from Examiner of Interferences.

TRADE-MARK FOR TOBACCO PRODUCTS.

Messrs. Clarke & Doolittle for Pittsburgh Brewing Company and Tech Food Products Company.

Mr. M. Leon Tolochko and *Messrs. Sachs & Caplan* for Ruben.

KINNAN, *First Assistant Commissioner:*

The Pittsburgh Brewing Company and the Tech Food Products Company, corporations, have filed opposition to the registration by the applicant, Abraham Ruben, of the mark "Tech" written in white script upon a plaid background as applied to cigars, stogies, snuff, chewing, smoking, and leaf tobacco.

The record shows that in and about the city of Pittsburgh, Pa., in which city the Carnegie Institute of Technology is located, that institution is frequently referred to in common parlance as the Tech or the Tech Institute and that the colors adopted by the institution are those of the Scotch plaid. The popularity of this institution and anything pertaining to it was very great, and it is apparent the opposer corporations saw commercial value in adopting the mark of this controversy in connection with the businesses such corporations carried on.

In the instant proceeding the ethics involved in a business corporation taking advantage of the popularity of these symbols of a great school of learning and adopting them in its commercial affairs in opposition to the wishes and against the protests of the authorities of the institute are not of moment. The case at bar involves merely the respective rights of the opposer and the applicant and is not concerned with the dignity of the Carnegie Institute of Technology.

The following may be deemed established or not seriously controverted: that the Pittsburgh Brewing Company used substantially the mark here involved on beer, ale, etc., from about 1907 to a period just prior to the passage of the Volstead Act, and that since that act upon near beer and other nonintoxicating drinks; that it is the owner of all the stock and is the real party in interest of the subsidiary corporation, the Tech Food Products Company, which latter deals in ice cream and by its charter may deal in dairy and farm products, groceries, canned groceries, canned goods, and even tobacco and cigars; that neither of these corporations has ever made or sold cigars or tobacco prior to the beginning of this controversy; that these corporations have spent large sums in advertising their business and have carried on a large business in near beer, soft drinks, and ice cream and have used the mark here in question upon these products.

[1] Applicant, Ruben, adopted and began the use of the mark early in 1921 in connection with his business of selling cigars, particularly cigars known as stogies. The circumstances under which applicant adopted and used the mark are not important; but he alleges that after discovering, through the trade-mark bureau of the Tobacco Merchants Association, that the word "Tech" had been used by H. N. Sakon, of Pittsburgh, for cigarettes, applicant purchased from the party Sakon the mark and the goodwill of the business of the latter and thereafter used the mark upon the applicant's products. It is in evidence that Sakon was in the tobacco business for a number of years preceding 1916, and during such year he retired from that particular business and has since discontinued the further use of the mark. It was nearly five years thereafter before applicant discovered that Sakon had owned this mark and made the purchase from him. There is no reason to conclude that Sakon had not an intent to abandon the mark, although possibly intent does not affirmatively appear. (*Saxlehner v. Eisner and Mendelson Co.*, 93 O. G., 940; 179 U. S., 19.) There is satisfactory proof that Sakon had been out of the tobacco business so long that he had no goodwill nor business to convey to anyone even if the inference is not fair that he had abandoned the mark. It would seem applicant had not established that he obtained any rights through his purchase from Sakon, since the latter would appear to have had none to transfer. Sakon had a mere abstract right which he could not convey, since such a right is not assignable independently of the goodwill and business, and neither of these latter existed. (*Morgan et al. v. Rogers*, 19 Fed. Rep., 596.)

There are two principal grounds upon which opposers base their opposition. It is contended that the applicant is not entitled to registration because the classes of goods are, in a general way, sufficiently similar to lead to the conclusion that there will be confusion of origin of goods. The second ground is that the word "Tech" is a material part of the corporate name of the Tech Food Products Company, and registration of such word to any applicant is barred by the statute, section 5 of the February, 1905, act.

There can be no doubt, and none is expressed by the opposers, that the cigars and tobacco belong to a class of goods which is not the same nor deceptively similar to the classes of goods handled by opposers—near beer, soft drinks, and ice cream. There is no contention that anyone would buy a cigar or tobacco thinking he was buying any of opposers' products; but the opposition is based upon the view that these products are all sold, in very many instances, by the same dealers and that the same mark appearing upon the applicant's cigars would lead the average purchaser to conclude that the cigars were being put out by the same parties who were distributing or manufacturing the soft drinks or the ice cream. Opposers have cited many adjudicated cases in support of their contention that similarity of goods is not the exclusive test, is not the only ground upon which damage may be predicated. Reference is made to the *Imperial Cotto Sales Co. v. Fairbanks Co.* (284 O. G., 961; 50 App. D. C., 250), wherein the court held, in ac-

cord with applicant's contention, that the question of confusion of reputation or origin should be taken into account. That case held that "Cottolene" should not be registered as a trade-mark for stock feed when it had been used by opposers as applied to a lard substitute. The *Gutta Percha and Rubber Manufacturing Co.* v. *Ajack Manufacturing Co.* (259 O. G., 184; 48 App. D. C., 230), the *Aunt Jemima Mills Co.* v. *Rigney and Co.* (247 Fed. Rep., 407), and other well-considered cases are also relied upon by opposers in support of their contention that there is probable confusion in origin of goods by reason of this fact that the same retail merchants handle all these classes of goods.

[2] After a careful review of all these cited cases and others with which I am familiar it seems clear there is no such confusion probable in the case at bar as existed in those decided cases. The sirup was a food product and used upon the cakes; the tire is not so distinct from the rubber hose; the tire is used on an automobile; a phonograph and an organ both emit music; there is a relation between a gas mantle and an incandescent bulb. There is lacking any of these relations in the case at bar. The goods are not identical. Those produced by opposers belong in the food and drink classes, while the cigars belong in neither of these. In the business of producing all these, notwithstanding the single instance cited, they are seldom combined. It must be deemed that these classes of goods are so far different that there is no likelihood of confusion of reputation or of origin. The mere fact that the same individual might eat ice cream and smoke a cigar is no more persuasive that he would confuse the origin of goods than if instead of buying the cigar he bought a package of cards to play with or a magazine to read, all of which are very frequently on sale at one and the same store. It is believed there is nothing in the adjudicated cases which supports the view of the opposers that there could arise confusion in reputations by the registration to applicant of the mark. The record clearly fails to support the contention of opposers that applicant has adopted this mark with the view of obtaining any benefit from the advertising and business reputation of the opposers. It seems a fair conclusion that applicant seeks, as did opposers, to obtain the advantage to be derived from the popular use of the word and the plaid with respect to the Institute of learning located in the city of Pittsburgh.

With respect to the statute forbidding the registration of any mark—

> which consists merely in the name of an individual, firm, corporation, or association not written, printed, impressed, or woven in some particular or distinctive manner,

this section has been construed by the court of appeals to bar registration of any word which is a distinctive or material part of a corporate name whether applied to the same or wholly dissimilar classes of goods. While many of the decisions, including the *Asbestone Company* v. *Carey Manufacturing Company* (200 O. G., 657; 41 App. D. C., 507), the *Mansfield Tire and Rubber Company* v. *Ford Motor Company* (222 O. G., 1056; 44 App. D. C., 205), and many others subsequent, use terms sufficiently broad to suggest the question of similarity or dissimilarity of the goods, is not material, yet most of those cases were based on conditions where the goods were more or less similar. However, in the *American Steel Foundries Case* (264 O. G., 354; 258 Fed. Rep., 160) the Court of Appeals of the District of Columbia made it plain beyond question that whether the goods were of the same or wholly dissimilar classes was immaterial.

Since applicant is unable to prove adoption and use of the mark prior to the incorporation of the Tech Food Products Company, it would appear the applicant should not be granted registration if his mark is "merely" the name of the opposer corporation.

I am unable to hold that the mark is no more than a material part of the corporate name. It is doubtful if most people would associate the word "Tech" with the institution of learning in the absence of the significant color background. This latter is very distinctive of the institute of learning and of its founder and lends material value to the mark. It is clearly an important part of the mark, a material part of the mark and the conclusion seems plainly warranted that the mark is not *merely* the corporate name or a material part of it.

All prohibitions as to registration of trade-marks are based on probable damage to vested interests. It is settled law the same mark may be registered by different parties in interest upon dissimilar classes of goods, because the first user is not in competition with the later user and is, therefore, not damaged. (*Vacuum Oil Co.* v. *Gargoyle Textile Corp.*, 307 O. G., 235, — App. D. C., —.) Where a corporation is engaged in making or marketing a certain class of goods, the later registration by a stranger, who later adopts and uses a mark which is a material part of that corporate name and is applied to the same or a similar class of goods, is clearly a damage to the business of that corporation and is rightly prohibited by the statute. Under these conditions the statute should be liberally construed in favor of the corporation. Where, however, the class of goods is wholly dissimilar, as, for example, where one adopts and seeks registration of the word "Century" as applied to spinning tops after the incorporation of the "Century Telephone Co.," it is difficult to discover damage to the corporation.

[3] The Court of Appeals of the District of Columbia has, however, held that the statute, section 5 of the February 20, 1905, act, prohibits registration under these last-named conditions; but it would appear that under these circumstances where possible damage is so remote the words "merely the name" should be liberally construed in favor of the applicant for registration.

The decision of the Examiner of Trade-Mark Interferences dismissing the opposition is affirmed.

U. S. Circuit Court of Appeals—Eighth Circuit.

STANDARD OIL CO. ET AL. *v.* OKLAHOMA NATURAL GAS CO.

Decided October 2, 1922.

[284 Fed. Rep., 469.]

1. PATENTS—WHEN PROCESS PATENT COVERS BOTH DRY AND WET GAS, THE PROCESS CAN NOT BE LIMITED TO DRY GAS.

Where a patent for a process for obtaining naphtha from natural gas covers both wet and dry gas, the patented process can not be restricted to dry gas though in practice used in the treatment of dry gas.

2. SAME—989,927, FOR PROCESS FOR OBTAINING NAPHTHA FROM NATURAL GAS, INVALID FOR WANT OF INVENTION.

The Saybolt patent, No. 989,927, claims 1 and 2, for a process of obtaining naphtha from natural gas by subjecting the gas under pressure to an absorbing menstruum while on its way to the consumer, *Held* invalid for want of invention in view of the prior art.

3. SAME—APPLYING OLD PROCESS OF OBTAINING LIQUIDS FROM GAS TO OBTAINING OF GASOLINE FROM NATURAL GAS NOT INVENTION.

Where is was known that gas contained gasoline in substantial quantities, and that volatile hydrocarbons could be obtained from gases by causing them to pass through an absorbent oil, and that the amount of gas dissolved by a liquid was proportionate to the pressure to which the gas was subjected, there was no invention, but only the application of an old process to a new use, in utilizing the pressure under which natural gas is necessarily transported to cause the absorption of gasoline therefrom by an absorbent menstruum.

4. SAME—USE OF TANK SHOWN IN DRAWINGS, BUT NOT MADE ESSENTIAL BY CLAIMS, HELD OPTIONAL.

Where a patentee of a process for obtaining naphtha from natural gas made no claim that a vent tank shown in the drawings was necessary, and it was not specifically made an essential step of the process defined in the claims, its use is optional.

5. SAME—APPLICATION OF WELL-KNOWN DEVICES AND PROCESSES TO NEW USES IN ANALOGOUS ARTS NOT INVENTION.

It is not a patentable invention to apply old and well-known devices and processes to new uses in other analogous arts.

APPEAL from the District Court of the United States for the Eastern District of Oklahoma; Robert L. Williams, judge.

Suit by the Standard Oil Company and another against the Oklahoma Natural Gas Company. From a decree dismissing the bill, complainants appeal. Affirmed.

Mr. Marshall A. Christy and *Mr. Livingston Gifford* (*Mr. Bayard H. Christy* on the brief) for the appellants.

Mr. George A. Prevost and *Mr. Frederick P. Fish* for the appellee.

Before CARLAND and LEWIS, Circuit Judges, and MUNGER, District Judge.

CARLAND, *Cir. J.:*

This is an appeal from a decree dismissing appellants' bill, which charged appellee with infringement of Letters Patent No. 989,927, to George M. Saybolt, dated April 18, 1911, for obtaining naphtha from natural gas. The application for the patent was filed September 1, 1906. On August 31, 1906, Saybolt assigned all his rights in said application to appellant Standard Oil Company, to which the patent was issued as assignee. The other appellant, Hope Natural Gas Company, is the exclusive licensee under said Letters Patent. There is no question of title or infringement. The only question is the validity of the patent. The trial court adjudged claims 1 and 2 of the patent void for want of novelty and patentable invention. The patent has three claims, but no infringement is shown as to claim 3, and it will not be considered. Claims 1 and 2 read as follows:

> 1. The process of obtaining naphtha from combustible gas of natural origin and underground source of the kind supplied by means of wells and pipe lines to cities for consumption therein, which process consists in subjecting such gas in the requisite large amount on the way from its underground sources to its places of consumption and under a high pressure, not less than about thirty pounds to the square inch above atmospheric pressure, to a naphtha absorbing menstruum, and by the aid of the same under said high pressure effecting the separation in industrial quantity from said gas of a natural gas naphtha liquid at atmospheric pressure and temperature and applicable to the uses of petroleum naphtha of similar volatility, substantially as described.
>
> 2. The process of obtaining naphtha from combustible gas of natural origin and underground source of the kind supplied by means of wells and pipe lines to cities for consumption therein, which process consists in subjecting such gas in the requisite large amount on the way from its underground sources to its places of consumption and under a high pressure, not less than about thirty pounds to the square inch above atmospheric pressure, to a naphtha absorbing menstruum, especially petroleum or hydrocarbon oil as specified, and by the aid of the same under said high pressure effecting the separation in industrial quantity from said gas of a natural gas naphtha liquid at atmospheric pressure and temperature and applicable to the uses of petroleum naphtha of similar volatility, and then recovering the naphtha in liquid form from said menstruum by distillation under a low pressure, not more than about atmospheric pressure, substantially as described.

The specifications which relate to the patent in suit, so far as is necessary to the present discussion, read as follows:

> This invention relates to the obtainment of naphtha from combustible gas of natural origin and underground source, which gas is obtainable by means of wells sunk into the ground to the proper horizon, and is capable of use as fuel. Natural gas wells sometimes do and sometimes do not yield oil also. In oil-yielding gas wells (or to state the matter conversely, in gas-yielding oil wells) the natural gas may rise with the oil, or a separation between them may take place underground. From the wells the gas is piped to the places of consumption, which may be longer or shorter distances away. This natural gas is and long has been obtained and used in enormous quantities. One single well, for example, has been known to yield 36,000,000 of cubic feet of gas in 24 consecutive hours. While therefore, the naphtha exists in the gas in the form of vapors under small tension and consequently in an attenuated condition, and while it composes only a small proportion of the gas, at least ordinarily, the amount varying in the gas from different wells, yet in the aggregate a large quantity of naphtha is daily burned as fuel, along with those combustible constituents of natural gas (hereinafter referred to as the lighter combustible constituents of the gas) which are gaseous at atmospheric pressure and temperature. Naphtha is volatile; but it is liquid at atmospheric pressure and temperature, say 15 pounds to the square inch and 60 degrees Fahrenheit, or thereabout. It may be defined generally as including all hydrocarbons, and each of them, which are liquid at atmospheric pressure and temperature, and which have lower boiling points than the normal hydrocarbons of burning oil (kerosene). It exists in vapor form in natural gas by reason of its association with the other constituents thereof.
>
> There exists, and for some years back has existed, a great demand for naphtha. It is mainly obtained from petroleum; and the crude oils from fields developed in recent years contain it in less proportion than does Pennsylvania oil. It is therefore, and for some years has been, highly important to enlarge the available supply of naphtha. The present invention has this object in view. In accordance with this invention, natural gas, as defined above, is subjected to an absorbent menstruum; by the aid of this menstruum a separation is effected of the naphtha from the lighter combustible constituents of the natural gas; and the absorbed naphtha is afterward separated from the menstruum and is recovered apart therefrom in the form of a liquid product.

Naphtha is a comprehensive term, embracing light oils in general, and as used in the patent means gasoline. The process of the patent involves the application of physical laws, as distinguished from the laws of chemistry, and no chemical reactions, so far as known, take place in the practice of the patented process. A very interesting discussion is found in the brief of counsel for appellants as to the chemistry of hydrocarbons, and this discussion is answered in the brief of counsel for appellee. These discussions, however, are not only confusing, but they have no relevancy to the validity of the patent, as no chemical reaction is shown in the claims and specifications, or in the practice of the patent. The physical laws involved in the practice of the patent read: (*a*) Subjecting natural gas under a pressure (not less than 30 pounds per square inch) to a naphtha absorbing menstruum (an oil heavier than gasoline), to enable the heavier oil to absorb from the gas the gasoline vapors carried by the gas. (*b*) The distillation of the menstruum or heavy oil containing the absorbed gasoline to drive off the gasoline vapors, which are then cooled and condensed and recovered in liquid form.

Counsel for appellee claim that the Saybolt process is only a plain application of a preexisting method of obtaining other liquid hydrocarbons from other gases produced artificially in the destructive distillation of coal and so-called shale, a defense generally termed double use. Saybolt did not claim in his application for the patent in suit to be the inventor of the recovery by absorption of vapors of normally liquid substances entrained in gas. Upon this point the specifications say:

> Heretofore appliances of many kinds have been devised for bringing gas into contact with other material, with a view of separating one or more of its constituents from the rest of the gas.

[1] This language is broad enough to include the recovery of such substances as benzol and shale naphtha from coke-oven and shale gas as set forth in the record. It is also admitted that, prior to Saybolt's invention, it was known that wet natural gas (that is, gas sucked up through the casing in the process of pumping oil from oil wells) contained gasoline vapor in substantial quantities; but it is claimed that Saybolt was the first to discover the presence of gasoline in dry gas (that is, gas "supplied by means of wells and pipe lines to cities for consumption therein," and lean casing-head gas, being gas from oil wells which has been separated from the oil before reaching the casing head), and that his process for obtaining this gasoline in industrial quantities from dry gas was distinctively novel. As the patent in suit covers both wet and dry gas, we think the contention that the process relates wholly to dry gas rather than wet cannot be maintained. In practice the process is used in the treatment of dry gas. The evidence shows that, prior to the application of Saybolt in 1906, it was known that gasoline was present in dry natural gas It may be true that before that time the presence of gasoline in dry natural gas in commercial quantities was not known, but Saybolt did nothing to enlighten any one on this matter. There is no evidence that he ever practiced his process before his application or afterwards; hence it cannot be said that Saybolt discovered the presence of gasoline in dry natural gas in commercial quantities. It was not until the appellant Hope Company experimented with the process in 1912 or 1913 that it was found that by the use of the process gasoline could be obtained from dry natural gas in sufficient quantities to be commercially profitable, if the price of gasoline was high enough.

Moreover, we fail to comprehend how the quantity of gasoline to be obtained from dry natural gas can be credited to the patented process. The amount of gasoline to be obtained necessarily would depend upon the amount of gasoline vapor held in the natural gas treated and the pressure at which the gas passed from its underground sources to its places of consumption. Henry's law, known since 1803, states that the amount of gas dissolved by liquid is proportional to the pressure to which the gas is subjected. This same law proves that, the greater the pressure the absorption is conducted under in the Saybolt process, the more gasoline is absorbed by the absorber menstruum, and the greater the quantity of liquid hydrocarbons finally obtained. The operation of this law was not novel, and could have been predicted without experimentation. It appears from the evidence in the record that the usual pressure of natural gas as it flows from the wells through the pipe lines to the cities for consumption averages 300 pounds per square inch, and that this pressure is fixed by the requirements of the transportation system. That the pressure is not created or fixed for the purpose of extracting the gasoline content of the natural gas by absorption, but is fixed or created for the purpose of maintaining pressure upon the pipe line system that will transport the gas to the distant markets. It further appears from the evidence that the pressure used on natural gas for the purpose of obtaining gasoline by absorption is whatever pressure that exists on the transportation system where the absorption plant is located.

The claims of the patent require the natural gas to be under a pressure of not less than about 30 pounds to the square inch above atmospheric pressure, but Saybolt knew from the law of Henry the function that pressure would perform in the absorption of the gasoline vapor from natural gas. The pressure of the natural gas already existed to the knowledge of every one. If the natural pressure of natural gas as it comes from the wells is not sufficient to properly carry the gas to the cities for consumption, then compressors are used to increase the pressure and force the gas to its destination. Whether the gasoline actually obtained from natural gas can be handled at a profit would depend upon the cost of obtaining it and the price at which it could be sold; the latter depending upon the supply and demand therefor. It satisfactorily appears from the evidence that there was no particular need in the industrial arts for the patented process to produce gasoline from natural gas at the time Saybolt filed his application; the ordinary method of refining being sufficient to supply the demand. At the date of the Saybolt application the production of gasoline was 7,000,000 barrels, being an increase in approximately six years of 314,817 barrels, and the record shows that, if there had been a demand therefor, more gasoline could have been produced by refining, because after 1906, when the automobile industry began to assert itself, a greater amount of refined gasoline was produced than before. In 1880 the price of gasoline was $1.65 per barrel, in 1890 $1.81 per barrel, in 1900 $2.39 per barrel, in 1905 $3.08 per barrel—an increase from 1880, covering a period of 25 years, of $1.27 per barrel. The record also shows that in 1905 only 85,000 automobiles propelled by gasoline motors were being used, while in 1910 there were 400,000 in use. The Hope Company did not put the patented process into operation until July, 1913, after a period of 7 years and 10 months from the date of Saybolt's application, when the number of automobiles had increased to 1,010,483, and gasoline had reached the price of $4.29 per barrel. These facts greatly impair the force of the statement in the specifications that—

> there exists and for some years back has existed a great demand for naphtha.

From the facts stated we do not think it can be claimed that Saybolt established any new industry, because prior to his application gasoline was being produced by the ordinary method of refining sufficient for all industrial needs, and it was not until over seven years after the application, when automobiles driven by gasoline motors increased in great numbers, that the demand for gasoline became such as to make gasoline obtained by absorption commercially profitable. The idea of obtaining gasoline from natural gas under pressure was not new, as the natural gas which Saybolt described was always under either natural or artificial pressure on its way to the cities for consumption, and the pressure only affected the quantity of gasoline produced, which fact was well known. The proceedings of the Patent Office which resulted in the allowance of the Saybolt claims throw light on the question at issue. The record shows that Saybolt's application, as originally filed, had 32 claims, 16 for the apparatus and 16 for process. Claim 1 of the process claims, as originally filed, is a sample of the other process claims, and reads as follows:

> The process of obtaining naphtha from combustible gas of natural origin and underground source, consisting in subjecting such gas to an absorbent menstruum and in effecting by the aid of such menstruum a separation of natural gas naphtha from the main body of the lighter combustible constituents of the gas, substantially as described.

On October 8, 1906, the Patent Office called for a division of the process and apparatus claims and also stated:

> As indicating the state of the art, and as showing that the invention under consideration is obviously a mere double use of an old process and of an old apparatus, reference is made to Lunge, Coal Tar and Ammonia, London, 1889, pp. 33–36.

October 4, 1907, Saybolt's attorney amended such claims by inserting:

> On the way from its said underground source to its place of consumption.

With this amendment the attorney filed an argument combating the claim that the process was a mere double use and obvious to one skilled in the art. On November 11, 1907, the Patent Office wrote the attorney and stated:

> An examination of the above passages shows a recognition of the fact that the hydrocarbons, condensing at ordinary temperatures, but not so stable as kerosene, the very substances classified as "naphtha" by the applicant, are present in natural gas. The relation of these substances to natural gas is thus known to be quite analogous to the relation of benzol to the ordinary illuminating gas, since in each case a substance of a much higher boiling point is "dissolved" in the gas. In view of this, it seems clear that no invention would be required to apply to the removal of "naphtha" from natural gas the same method and apparatus as are employed to remove the benzol or "naphtha" from illuminating gas. A method and apparatus, substantially the same as applicant's are disclosed in the references already cited from Lunge, and in the following German patents. * * * The claims are rejected.

On November 4, 1908, the attorney filed an amendment, by which he modified the specifications slightly, and added four claims, two for the process and two for the apparatus. With this amendment an argument was filed, attempting to distinguish natural gas and its naphtha from coal gas and its naphtha. On November 30, 1908, the Examiner of the Patent Office answered the attorney by saying:

> There does not seem to be any patentable matter in the claims presented previously to the latest amendment, in view of the references of record, nor in those last presented, in view of the German patent to Kunow, of record, which describes a method involving the "pools" of the applicant. * * * All the claims are rejected.

On November 26, 1909, Saybolt amended his original specifications, canceled all of the claims, and substituted 12 new claims, 6 process and 6 apparatus; claims 4, 5, and 6 of the group being the same as claims 1, 2, and 3, of the patent, and having in them the requirement that the absorption be carried on under at least 30 pounds pressure. The Patent Office allowed claims 4, 5, and 6, and rejected all other claims on the references and reasons of record. On January 14, 1910, Saybolt amended some of his claims, but not 4, 5, and 6, canceled one claim, and filed another argument, in which he again combated the Examiner's position that applicant's process was a mere double use and obvious to one skilled in the art. On February 11, 1910, the Examiner took the following action:

> This case has been reconsidered, in view of the amendment of January 14, 1910. The merits of this case having been fully considered, final action is now taken. Claims 4, 5, and 6 may be allowed; the others are finally rejected.

[2] September 2, 1910, applicant canceled all claims but 4, 5, and 6, which he renumbered 1, 2, and 3, and these claims were allowed. This record shows that the patent was finally allowed on the three claims mentioned, because they contained the words—

> under a high pressure not less than about 30 pounds to the square inch above atmospheric pressure.

We have heretofore shown that Saybolt had nothing whatever to do with applying pressure

to the natural gas, but simply took the gas at high pressure in the lines as he found it, and that in a gas-transportation system a high pressure is used for transportation purposes solely. We do not think that the language above quoted distinguished Saybolt's claims from the prior art, especially when we consider that he had nothing whatever to do with the pressure which existed prior to his entrance into the field.

Counsel for appellants admit that everybody knows that moisture can be absorbed from air by causing it to pass through a hydroscopic substance, and that it was old in the production of coke by the destructive distillation of coal to treat the gaseous products of the distillation to obtain their contents of tar and ammonia, and finally to cause the cleaned residual gas to percolate through an absorbent oil, and thus obtain from the gas its substantial vapor content of benzol and toluol, which belong to a group of unsaturated hydrocarbons called aromatics; these gases being subsequently recovered from the oil by distillation. This operation is described in the Lunge publication, London, 1887, referred to by the Patent Office in the first rejection of the Saybolt claims. The operation, or what is known as the absorption process, has also been practiced in this country since the year 1889 by the Semet-Solvay Company at Syracuse, N. Y., for the recovery of light oil from coke-oven gas in the same manner as that described by Lunge. It is also admitted that essentially the same operation has been carried on for more than 100 years in the so-called shale-oil industry in Scotland; the light liquid product in that case belonging mainly to another group of unsaturated hydrocarbons called olefine. The shale-oil industry is treated of historically in the book by I. I. Redwood, published in London in 1897. The prior art relied upon by the appellee to show complete anticipation of claims 1 and 2 of the patent, and which was not cited or considered by the Patent Office in connection with the Saybolt application, are as follows: Young, British Patent No. 3,137 of 1875; Redwood publication, Mineral Oil and Other By-Products, published 1897; A. S. Cooper article, Pacific Oil Reporter, October 14, 1905; A. S. Cooper article, Petroleum Gazette, Titusville, Pa., December, 1905; Semet-Solvay Co., Benzol Recovery Plant, 1898. The second and fourth claims of the Young patent are as follows:

> Absorbing and recovering the volatile hydrocarbons from gases resulting from the coking and charring of coal, wood, and similar substances at high temperatures, by causing the oils to circulate through an apparatus, wherein after absorbing the vapors from the gases the whole or part of the oils are subjected to complete or partial distillation, and caused to part or partially part with the hydrocarbons absorbed, so that the oils may be returned to the absorbing vessel again in a fit state to take up fresh quantities of hydrocarbon vapors, substantially as hereinbefore described and shown in the accompanying drawings.
>
> The recovery of the volatile hydrocarbons from gases resulting from the destructive distillation of coal, shale, and similar bituminous substances, and from the coking or charring of coal, wood, and similar substances at high temperatures, by compressing such gases in the presence of an oil capable of absorbing the suspended vapors of the hydrocarbons, and cooling the absorbent oils by the action of the expanded gases thereon, substantially in the new or improved manner hereinbefore described and shown on Sheet 2 of the drawings hereunto annexed.

The title of the Young patent is "Improvements in obtaining hydrocarbon vapors from gases, and in the apparatus employed therefor." The object of the invention is stated as follows:

> My said invention has for its object the more perfect removal and collecting of those hydrocarbons diffused through the gases produced in obtaining mineral oils from coal, shale, peat, and analogous bituminous substances, as well as in the processes of coking coal, peat, or charring wood.

[3] The record shows that coal, shale, petroleum, and natural gas are analogous bituminous substances. The Young patent describes a process which, so far as we are able to discover, is for all practical purposes the same as the Saybolt process, and in this connection it must be borne in mind that we are dealing with a process and not an apparatus. Counsel for appellants seek to distinguish the old absorption process from the Saybolt process by showing the differences in the relations of the vapors desired to be recovered from coke-oven gas and shale gas and those to be recovered from natural gas. If the process is the same, we fail to understand how the composition of coke-oven and shale gas and the composition of natural gas affects the question to be determined in any way. The process recovers the vapors whatever their composition, and even if there be a difference in the composition, Saybolt was simply applying the old process to a new use, which was not invention. The element of pressure is also a part of the process described by Young.

In his specifications Young says:

> In place of using so large a quantity of water as is required by the preceding processes to cool the large volume of denuded oils and also to condense the necessarily large volume of steam carried over from the still with the vapors of the absorbed hydrocarbons, and at the same time to more perfectly separate the vapors from the gases, the previously described arrangement is so modified that the gases and heavy oils are brought into intimate contact under pressure. This is accomplished by making the coke compartment sufficiently strong, and pumping the gases and oils through it, the denuded gases being allowed to escape into the outlet pipe by a weighted safety valve, or their expansive force may be economically used to assist in pumping a fresh portion of saturated gas and oil into the coke compartment, which oil may also be cooled by the gas so expanded, the saturated oils being drawn off at the bottom by a regulated ball cock. By these means the quantity of oil requiring to be put through the arrangement is comparatively small, as the oil is capable of absorbing out of the gas a much larger quantity of the vapors whilst under pressure, and the supersaturated oils on being allowed to escape into the still part with the absorbed hydrocarbons much more easily, and as less steam passes over with them there is required a comparatively small quantity of water to condense the vapors and cool the denuded oils.
>
> The amount of pressure to which the gases are subjected may be varied according to circumstances; from one to three or four atmospheres will generally be found sufficient, but the pressure in a great measure depends upon the nature and quantity of the absorbent oil employed, and the boiling points of the hydrocarbons to be recovered from the gases; the greater the absorbent power of the oil the larger the quantity employed, and the higher the boiling point of the hydrocarbon to be recovered from the gas the lower may be the pressure; on the other hand, when the oil has a low absorbing power, when the quantity employed is small, or when the hydrocarbon to be recovered from the gas has a very low boiling point, the pressure must be increased.

The record shows also from the testimony of the witness Biddison that a "Young" plant was constructed and operated at Homer, Ohio, from the teachings of the Young patent, and that gasoline was produced from the natural gas treated by the plant; that this plant demonstrated that the absorption process under pressure set forth in the Young British patent, and the apparatus disclosed by Young could be bodily adopted for the treatment of natural gas. The witness Burrell testified that the absorption process and apparatus set forth in the Redwood publication was an apparatus and process covering all the essential details having to do with the absorption of naphtha from gas. The Redwood publication refers to the Young British patent and describes the absorption process as disclosed by Young without the use of pressure and also stated that gas and heavy oil might be brought into contact under pressure. The witness Blauvelt, who had been in the employ of the Semet-Solvay Company at Syracuse, N. Y., testified in substance that coal gas produced by the distillation of coal in the ovens after being cooled and scrubbed to remove the tar and ammonia was and is treated by the old absorption process for the recovery of light hydrocarbon oil, commonly known as crude benzol, the vapors of which are carried in the coal gas; the gas being taken from a pipe line for transportation to cities for distribution and consumption therein. In the A. S. Cooper article, found in the Pacific Oil Reporter dated October 14, 1905, it was stated that the absorption process could be applied to natural gas for the extraction of the light oil vapors therefrom. Cooper stated:

> Natural gas can be deprived of light hydrocarbons suspended and contained in the gas as a vapor by passing the gas through heavy liquid petroleum oil, which boils at a high temperature; the heavy liquid hydrocarbon being an absorbent of the light hydrocarbon vapors. After being absorbed, the light hydrocarbons are separated from the heavy liquid petroleum oil by distillation.

[4] It is claimed by counsel for appellants that the vent tank shown in the drawings of the patent in suit is a vital element in the apparatus for carrying out the absorption process, but Saybolt made no claim that the vent tank was necessary, and counsel for appellants state in their brief:

> The step of preliminary distillation in the vent tank * * * is not specifically made an essential step of the process defined in the patent claims.

We therefore think the use of the vent tank is optional. Appellants rely upon the cases of *Naylor* v. *Alsop* (168 Fed., 911; 94 C. C. A., 315) and *Badische* v. *Kalle* (C. C., 94 Fed., 163) in support of the claim that Saybolt made a patentable discovery. In the Naylor case the use of gaseous nitrogen peroxide for bleaching flour was involved. The patent was sustained because the inventor had not used known agents in the art of bleaching flour, but the only agent that had yet been found to accomplish that result successfully. The Badische patent was for a new soluble indigo dye, obtained by persistent and prolonged washing of a material thought to be insoluble. An ordinary amount of washing would not render the material soluble. The result reached by prolonged washing, therefore, was unexpected, as was the result in the Naylor case. No one had tried prolonged washing before, and the result obtainable from such washing was unknown. The difference in the facts of these cases and the one at bar prevent them from ruling this case. *Spill* v. *Celluloid Mfg. Co. Case* (C. C., 21 Fed., 631), also cited by appellants, would seem to support the claim of appellee. See *Ansonia Brass & Copper Co.* v. *Electrical Supply Co.* (144 U. S., 11; 12 Sup. Ct., 601; 36 L. Ed., 327; 58 O. G., 1692), where the Spill case is cited with approval.

[5] In an opinion of reasonable length it would be impossible to follow counsel as to all points discussed orally and in brief. We are satisfied that Saybolt discovered nothing new; that he simply applied an old and well-known process to a new use, which produced no new result or an old result in a better or easier way. It is not a patentable invention to apply old and well-known devices and processes to new uses in other and analogous arts. (*Lovell Mfg. Co.* v. *Cary*, 147 U. S., 623; 13 Sup. Ct., 472; 37 L. Ed., 307; *Penn. R. Co.* v. *Locomotive E. S. Truck Co.*, 110 U. S., 490–494; 4 Sup. Ct., 220; 28 L. Ed., 222; 27 O. G., 207; *Brown* v. *Piper*, 91 U. S., 37; 23 L. Ed., 200; *Heald* v. *Rice*, 104 U. S., 737; 26 L. Ed., 910; 21 O. G., 1443; *Atlantic Works* v. *Brady*, 107 U. S., 192, 199; 2 Sup. Ct., 225; 27 L. Ed., 438; 23 O. G., 1330; *Blake* v. *San Francisco*, 113 U. S., 679; 5 Sup. Ct., 692; 28 L. Ed., 1070; 31 O. G., 380; *Thatcher* v. *Burtis*, 121 U. S., 286; 7 Sup. Ct., 1034; 30 L. Ed., 942; 39 O. G., 587; *Aron* v. *Manhattan R. Co.*, 132 U. S., 84, 90; 10 Sup. Ct., 24; 33 L. Ed., 272; 49 O. G., 1365; *Mast, Foos & Co.* v. *Stover Mfg. Co.*, 177 U. S., 485, 495; 20 Sup. Ct., 708; 44 L. Ed., 856; 91 O. G., 1239; *Grinnell Washing Machine Co.* v. *E. E. Johnson Co.*, 247 U. S., 426; 38 Sup. Ct., 547; 62 L. Ed., 1196; 254 O. G., 225; *Werk* v. *Parker*, 249 U. S., 130; 39 Sup. Ct., 197; 63 L. Ed., 514; 264 O. G., 159.)

Decree affirmed.

ADJUDICATED PATENTS.

(C. C. A. Iowa.) The Anakin and Shealy patent, No. 1,021,651, for auxiliary safe lock, *Held* valid, but not infringed. *Anakin Lock Works* v. *Dillon Lock Works*, 292 Fed. Rep., 45.

(D. C. Ohio.) The Wiegand patent, No. 1,133,347, for an apparatus for producing electrical heating devices, testimony in a suit under section 4915, Revised Statutes, *Held* insufficient to establish that Braun, plaintiff's assignor, and not Wiegand, was the prior inventor. *Dover Mfg. Co. et al.* v. *Wiegand*, 292 Fed. Rep., 255.

(C. C. A. Ill.) The Wiley and Hough patent, No. 1,146,910, for process of making illuminated signs, *Held* invalid. *Flexlume Sign Co.* v. *Opalite Sign Co.*, 292 Fed. Rep., 98.

(D. C. Pa.) The Kohlman, Hoffman, and Godfrey patents, Nos. 1,148,328, for process in bread making, and 1,151,526, for yeast-saving composition, *Held* valid and infringed. *Ward Baking Co.* v. *Hazleton Baking Co.*, 292 Fed. Rep., 202.

(D. C. N. Y.) The Gans patent, No. 1,195,923, for water-softening apparatus, *Held* valid and infringed. *Permutit Co.* v. *Paige & Jones Chemical Co.*, 292 Fed. Rep., 239.

(C. C. A. Ill.) The Wiley and Hough patent, No. 1,224,253, for illuminated signs, claims 1 to 7 and 11 *Held* valid and infringed and claims 8, 9, and 10 *Held* invalid. *Flexlume Sign Co.* v. *Opalite Sign Co.*, 292 Fed. Rep., 98.

(D. C. Ohio.) The Smith patent, No. 1,439,338, for golf-practicing and exercising device, claims 3, 4, 6, 9, and 15 *Held* valid and infringed and claims 1, 2, 5, 12, 13, and 14 *Held* invalid. *Vaco Grip Co.* v. *Sandy MacGregor Co.*, 292 Fed. Rep., 249.

(D. C. Ohio.) The Smith patent, No. 1,439,339, for golf-practicing and exercising device, claims 1 to 4, 8, 9, 12, and 13 *Held* valid and infringed and claims 5, 6, 7, 10, and 11 *Held* invalid. *Vaco Grip Co.* v. *Sandy MacGregor Co.*, 292 Fed. Rep., 249.

Interference Notices.

U. S. PATENT OFFICE, *Washington, Nov. 16, 1923.*

George W. Caldwell, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of I. N. Stowe, M. D., 509–10–11 National Bank Building, Atlanta, Ga., for registration of a trade-mark and trade-mark registered June 17, 1902, No. 38,469, to George W. Caldwell, Middletown, N. Y., and a notice of such declaration sent by registered mail to said Caldwell at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Caldwell, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Nov. 16, 1923.*

Wm. Henning Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of S. S. Pierce Co., 73 Tremont Street, Boston, Mass., for registration of a trade-mark and trade-mark registered July 31, 1906, No. 54,885, to Wm. Henning Co., 117 East North Avenue, Chicago, Ill., and a notice of such declaration sent by registered mail to said Wm. Henning Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Wm. Henning Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Nov. 16, 1923.*

The Radio-Sulpho Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Francois X. Rondeau, 35 Provost Street, Brockton, Mass., for registration of a trade-mark and trade-mark registered January 2, 1906, No. 48,533, to The Radio-Sulpho Co., 210 and 211 Mack Block, Denver, Colo., and a notice of such declaration sent by registered mail to said Radio-Sulpho Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Radio-Sulpho Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Nov. 20, 1923.*

Thomas Smith, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Carl R. Rostine, 105 North Euclid Avenue, Ontario, Calif., for registration of a trade-mark and trade-mark registered May 15, 1900, No. 34,647, to Thomas Smith, 20 West Street, Paterson, N. J., and a notice of such declaration sent by registered mail to said Smith at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Smith, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Nov. 9, 1923.*

Anhydrous Battery Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Camel Dry Storage Battery Co., of 3039 Elm Street, Dallas, Tex., for registration of a trade-mark and trade-mark registered May 3, 1910, No. 77,697, to the Anhydrous Battery Company, 222–224 South Canal Street, Chicago, Ill., and a notice of such declaration sent by registered mail to said Anhydrous Battery Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Anhydrous Battery Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Nov. 10, 1923.*

George Waldron Blake, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Emily Russell Claflin, of 1407 Fifth Street, Santa Monica, Calif., for registration of a trade-mark and trade-mark registered July 21, 1896, No. 28,625, to George Waldron Blake, 202 Broadway, New York, N. Y., and a notice of such declaration sent by registered mail to said Blake at the said address having been returned by the post office undeliverable, notice is hereby given that unless said George Waldron Blake, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Nov. 5, 1923.*

Clark Mfg. Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between Walter C. Palmer, 39 Vine Street, Cincinnati, Ohio, for registration of a trade-mark and trade-mark registered June 20, 1916, No. 111,068, to Clark Mfg. Co., 226 Church Street, Philadelphia, Pa., and a notice of such declaration sent by registered mail to said Clark Mfg. Co. at said address having been returned by the post office authorities as undeliverable, notice is hereby given that unless said Clark Mfg. Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Nov. 6, 1923.*

Phila Marton Shugart, his assigns or legal representatives, take notice:

An interference having been declared by this Office between Frederick Martin Burns, 135 North Fulton Avenue, Mount Vernon, N. Y.; Miller Brothers, 316 Fifth Avenue, New York, N. Y., and Phila Marton Shugart, 11 West Sixty-ninth Street, New York, N. Y., for registration of a trade-mark, and a notice of such declaration sent to said Phila Marton Shugart at the said address having been returned by the post office authorities as undeliverable, notice is hereby given that unless said Phila Marton Shugart, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 4, 1923.

[VOL. 317. No. 1.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 148,076. (CLASS 39. CLOTHING.) INTERNATIONAL STANDARD EXPORTING CORPORATION, New York, N. Y. Filed May 23, 1921.

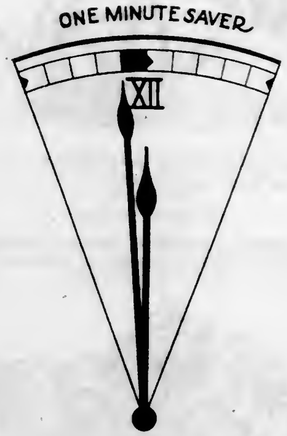


"Iseco."

Particular description of goods.—Garters for Personal Wear, Belts, Suspenders; Underwear of Both Knitted and Textile Fabric for Men, Women, and Children; Hosiery, Neckwear—Namely, Neckties and Scarfs; Children's Suits, Bathing Suits and Raincoats.

Claims use since July 20, 1920.

Ser. No. 150,505. (CLASS 37. PAPER AND STATIONERY.) GASTONE BONIFACIO, New York, N. Y. Filed July 18, 1921.



Applicant makes no claim for the words "One Minute Saver" apart from the mark shown in the drawing.

Particular description of goods.—Envelope-Addressing Stencils.

Claims use since on or about July 12, 1921.

Ser. No. 150,963. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LEEK BROTHERS, Morristown, N. J. Filed July 26, 1921.

HERCULES

Particular description of goods.—Painters' and Decorators' Drop Cloths, Especially Constructed Covers Made of Woven Fabric for Protecting Floors, Fixtures, Furniture and the Like from Paint Droppings and Spatters.
Claims use since June 20, 1921.

Ser. No. 151,521. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SOLOMON E. RAINS, doing business as S. E. Rains Company, New York, N. Y. Filed Aug. 6, 1921.

IRONWEAVE

Particular description of goods.—Kerchiefs and Handkerchiefs.
Claims use since first part of March, 1921.

Ser. No. 153,885. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE KROGER GROCERY & BAKING Co., Cincinnati, Ohio. Filed Oct. 8, 1921.

AVONDALE



Particular description of goods.—Bread.
Claims use since Jan. 1, 1900.

Ser. No. 158,389. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GERBER & Co. LTD., Thoune, Switzerland. Filed Jan. 24, 1922.



Particular description of goods.—Cheese.
Claims use since July 15, 1915.

Ser. No. 158,808. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILMINGTON PROVISION COMPANY, Wilmington, Del. Filed Feb. 2, 1922.

TOWER

Particular description of goods.—Packing-House Products—viz, Ham, Bacon, Lard, Sausage-Meat Roll, and Minced Luncheon Specialty.
Claims use since 1912.

Ser. No. 158,809. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILMINGTON PROVISION COMPANY, Wilmington, Del. Filed Feb. 2, 1922.

BRANDYWINE FARM

Particular description of goods.—Packing-House Products—viz, Lard, Ham, Bacon, Scrapple and Souse; and Farm Products—viz, Butter and Eggs.
Claims use since 1912.

Ser. No. 159,267. (CLASS 39. CLOTHING.) TOBIAS KLIPSTEIN, New York, N. Y. Filed Feb. 13, 1922.

TailorKraft
Custom-made-Ready-made
Garments

No claim is made to the words "Custom-Made, Ready-Made Garments" apart from the mark as shown.
Particular description of goods.—Ladies', Misses', and Juniors' Coats.
Claims use since Jan. 1, 1922.

Ser. No. 162,237. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ISAAC E. BLOCK, doing business as Peggy Page Candy Co., Chicago, Ill. Filed Apr. 13, 1922.



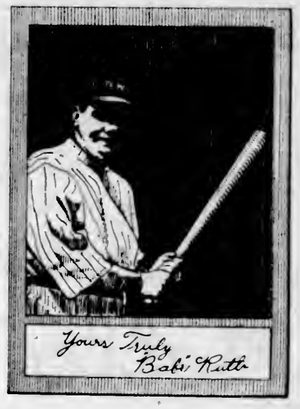
Particular description of goods.—Candies of All Types.
Claims use since 1912.

Ser. No. 163,708. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) SOL H. SHOINGER, doing business as The Solvos Company, Chicago, Ill. Filed May 11, 1922.

KNICKERETTE

Particular description of goods.—Sanitary Protective Bloomer.
Claims use since Sept. 6, 1921.

Ser. No. 164,071. (CLASS 39. CLOTHING.) ROSENWASSER BROS., INC., Astoria, N. Y. Filed May 18, 1922.



The signature which forms a part of the trade-mark is a facsimile of that of "Babe Ruth." The lining on drawing is for the purpose of shading only.
Particular description of goods.—Leather Shoes.
Claims use since Sept. 1, 1921.

Ser. No. 164,176. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE K. LOVING, doing business as G. K. Loving Co., Richmond, Va. Filed May 20, 1922.



No claim is made to the words "Purity," "Quality," and "Strength" apart from the mark shown in the accompanying drawing.
Particular description of goods.—Food-Flavoring Extracts.
Claims use since spring of 1911.

Ser. No. 165,192. (CLASS 39. CLOTHING.) HIRSH, WICKWIRE COMPANY, Chicago, Ill. Filed June 8, 1922.

London Fog

Particular description of goods.—Men's Outer Garments of Clothing—Namely, Suits, Coats, Trousers, and Overcoats.
Claims use since Apr. 17, 1922.

Ser. No. 165,281. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES C. FULLER, Kansas City, Mo. Filed June 10, 1922.

CROWN

No claim is made to the ownership of the words "Shampoo Bags" or to the exclusive right to use the same apart from the trade-mark shown in the drawing.
Particular description of goods.—Shampoo Preparation.
Claims use since June 1, 1906.

Ser. No. 165,392. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KING'S FOOD PRODUCTS COMPANY, Portland, Oreg. Filed June 12, 1922.

Chief Umpqua

Particular description of goods.—Canned and Dehydrated Fruits and Canned and Dehydrated Vegetables.
Claims use since Apr. 25, 1922.

Ser. No. 165,491. (CLASS 39. CLOTHING.) FAMOUS TAILORS CORPORATION, Chicago, Ill. Filed June 14, 1922.



Particular description of goods.—Men's Suits and Overcoats.
Claims use since May 1, 1922.

Ser. No. 165,745. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE COLUMBUS CHEMICAL COMPANY, Columbus, Ohio. Filed June 20, 1922.

X-RAY OINTMENT

No claim is made to the exclusive use of the word "Ointment" apart from the mark as shown.
Particular description of goods.—Ointment for Burns, Cuts, Infections, Boils, Rash.
Claims use since 1903.

Ser. No. 165,746. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE COLUMBUS CHEMICAL COMPANY, Columbus, Ohio. Filed June 20, 1922. Under ten-year proviso.

QUICK RELIEF BALM

Particular description of goods.—A Salve for Colds, Catarrh, Pleurisy, Rheumatism, Headache, Neuralgia, Pains, Bruises, General Congestion, and Inflammation.
Claims use since 1895.

Ser. No. 165,776. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) JOSEPHINE L. ALVORD, Henderson, N. Y. Filed June 21, 1922.

Windswept

Particular description of goods.—Pelts of Fur-Bearing Animals.
Claims use since on or about Jan. 1, 1921.

Ser. No. 165,970. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) SAUNDERS LONE STAR SEED CO. INC., Greenville, Tex. Filed June 23, 1922.

Saunders

The mark shown is a facsimile of the signature of Mr. D. A. Saunders, vice president of the corporation.
Particular description of goods.—Cottonseed.
Claims use since Apr. 1, 1922.

Ser. No. 165,987. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DICTOGRAPH PRODUCTS CORPORATION, New York, N. Y. Filed June 24, 1922.

DICTOGRAPH RADIO

No claim is made to the word "Radio" apart from the mark as shown.
Particular description of goods.—Telephonic Head Sets.
Claims use since May 1, 1922.

Ser. No. 166,156. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES H. VAN GESEN, doing business as Mello-Derma Company, Ellensburg, Wash. Filed June 27, 1922.

Mello-Derma

Particular description of goods.—Lotion or Like Preparation for Chapped Hands, Face, and Lips, Sunburn, and Tan.
Claims use since Aug. 15, 1902.

Ser. No. 166,199. (CLASS 37. PAPER AND STATIONERY.) NOESTING PIN TICKET COMPANY, INCORPORATED, Mount Vernon, N. Y. Filed June 28, 1922.

"Noesting"

Particular description of goods.—Pin Tickets, Paper Clips, Tags, and Thumb Tacks.
Claims use since Nov. 21, 1912.

Ser. No. 166,671. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE FISHBACK CO., Indianapolis, Ind. Filed July 10, 1922.

VIRGINIA SWEET

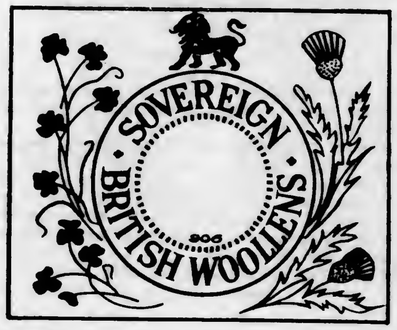
Particular description of goods.—Coffee.
Claims use since June 22, 1922.

Ser. No. 166,831. (CLASS 39. CLOTHING.) GEORGE P. IDE & COMPANY, INC., Troy, N. Y. Filed July 13, 1922.

AZURETEX

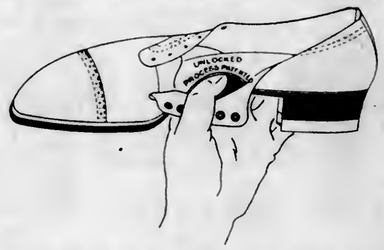
Particular description of goods.—Outer Dress Shirts.
Claims use since June 1, 1922.

Ser. No. 166,866. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN INTERSEAS CORPORATION, New York, N. Y. Filed July 14, 1922.



No claim made to the exclusive use of the words "British Woolens" apart from the mark as shown on the drawing.
Particular description of goods.—Woolen Piece Goods.
Claims use since May 9, 1922.

Ser. No. 167,097. (CLASS 39. CLOTHING.) THOMAS G. PLANT COMPANY, Boston, Mass. Filed July 19, 1922.



No exclusive claim is made to the words "Process Patented" nor to the representation of the shoe aside from the combination as shown in the drawing, without waiving any of the applicants' common-law rights.
Particular description of goods.—Boots, Shoes, and Slippers Made Wholly or in Part of Leather, Canvas, or Textile Material.
Claims use since June 26, 1922.

Ser. No. 167,357. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER BENSON LAW, Dunellen, N. J. Filed July 25, 1922.

ULTIMATE

Particular description of goods.—Coffee.
Claims use since Apr. 10, 1922.

Ser. No. 167,893. (CLASS 39. CLOTHING.) MORRI S. PERELSTINE, Pittsburgh, Pa. Filed Aug. 7, 1922.



No claim is made to the representation of the shoe and to the word "Shoe" aside from its use in connection with the trade-mark as shown in the drawing.
Particular description of goods.—Shoes Which Are Made from Leather or from Fabric or from a Combination of Leather and Fabric.
Claims use since about July 1, 1922.

Ser. No. 167,895. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) TIMOTHY B. POWERS, doing business as Powers Manufacturing Company, New York, N. Y. Filed Aug. 7, 1922.

CANTILEVER

Particular description of goods.—Screw Drivers.
Claims use since June 15, 1921.

Ser. No. 167,916. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. JUDD E. HAMMOND, doing business as Hammond Ironized Aspirin Company, Munday, Tex. Filed Aug. 1922.

HIACO

Particular description of goods.—Medicine for the Relief of Pain.
Claims use since May 1, 1922.

Ser. No. 167,990. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) LYON & HEALY, Chicago Ill., assignor to Lyon & Healy, Inc., Chicago, Ill., a Corporation of Illinois. Filed Aug. 9, 1922.

Reducio

Particular description of goods.—Musical Instruments and Supplies for Talking Machines.
Claims use since about Aug. 1, 1922.

Ser. No. 168,455. (CLASS 15. OILS AND GREASES. DAVIES, ROSE & CO., LTD., Boston, Mass. Filed Aug 19, 1922.

HYDROL

"Hydrol."
Particular description of goods.—Refined Lubricant.
Claims use since 1900.

Ser. No. 168,721. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MOTH K-L COMPANY, INC., New York, N. Y. Filed Aug. 26, 1922.

K-L

Particular description of goods.—Insecticides.
Claims use since Jan. 1, 1922.

Ser. No. 168,728. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PACIFIC COMMERCIAL COMPANY, Manila, Philippine Islands, and New York, N. Y. Filed Aug. 26, 1922.



No claim is made to any of the wording appearing on the drawing except the words "Jabali" and "Pacific Commercial Company" except as used in connection with this mark.
Particular description of goods.—Wheat Flour.
Claims use since Apr. 20, 1918.

Ser. No. 168,731. (CLASS 27. HOROLOGICAL INSTRUMENTS.) CHAS. SCHWARTZ & SON, Washington, D. C. Filed Aug. 26, 1922.

Washington

The mark is an exact reproduction of the generally-accepted signature of George Washington, deceased, the first President of the United States.
Particular description of goods.—Watch Movements, Watchcases Therefor.
Claims use since Jan. 1, 1921.

Ser. No. 168,773. (CLASS 37. PAPER AND STATIONERY.) THE MANI-FOLD COMPANY, Cleveland, Ohio. Filed Aug. 28, 1922.



The words "Continuous Mani-Fold Forms" and the illustration of the forms are disclaimed apart from the mark.
Particular description of goods.—Blank Forms—Namely, Freight Expense Bills, Freight Waybills, Invoice Forms, Purchase Order Forms, Factory Order Forms, Customers' Order Forms, Shipping Order Forms, Bills of Lading, Express Receipt Forms, Bank Collection Forms, Acknowledgment Forms, Interoffice Correspondence Forms, and Memoranda.
Claims use since about June 30, 1922.

Ser. No. 168,896. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MINOT, HOOPER & CO., New York, N. Y. Filed Aug. 30, 1922. Under ten-year proviso.



Particular description of goods.—Cotton Piece Goods.
Claims use since about Apr. 29, 1876.

Ser. No. 168,937. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PEEK, FREAN AND COMPANY, LIMITED, London, England. Filed Aug. 31, 1922.

MELTIS

Particular description of goods.—Confectionery—Namely, Chocolate and Orchard Candies (Crystallized-Fruit Candies.)
Claims use since Oct. 8, 1920.

Ser. No. 169,159. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) EMBLEM MANUFACTURING COMPANY, Angola, N. Y. Filed Sept. 7, 1922.



The drawing is lined to denote shading.
Particular description of goods.—Cycles—Namely, Foot-Propelled Cycles Known as Bicycles and Motor-Propelled Cycles Known as Motor Cycles.
Claims use since 1909.

Ser. No. 169,880. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE TAPPAN STOVE CO., Mansfield, Ohio. Filed Sept. 23, 1922.

TAPPAN
ESTAB. 1881
ECLIPSE

"Tappan."
Particular description of goods.—Gas and Coal Ranges and Stoves.
Claims use since Jan. 1, 1922.

Ser. No. 169,896. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE FLUENZOL PROPRIETARY, LTD., Wellington, New Zealand, and New York, N. Y. Filed Sept. 25, 1922.



No claim is made to the words "Cutest Cure for Cuts & Bruises" and "Let It Soak In" apart from the mark shown in the accompanying drawing.
Particular description of goods.—Medicinal Preparation to be Used Externally as an Emollient and as a Lotion.
Claims use since Mar. 10, 1919.

Ser. No. 169,920. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OAKFORD & FAHNESTOCK, Peoria, Ill. Filed Sept. 25, 1922.

COMPANION

Particular description of goods.—Baking Powder, Cream of Tartar, Bluing, and Ammonia.
Claims use since May 24, 1922.

Ser. No. 170,001. (CLASS 4. ABRASIVE, DETERGENT AND POLISHING MATERIALS.) H. H. BARTON SON CO., INC., Philadelphia, Pa. Filed Sept. 13, 192..



No claim is made to the words "Crystal Garnet" apart from the mark shown.
Particular description of goods.—Abrasive Papers or Cloths.
Claims use since about January, 1886.

Ser. No. 170,786. (CLASS 12. CONSTRUCTION MATERIALS.) WILLIAM H. PLATNER, doing business as Koncrete Exterior Stucco Company, Omaha, Nebr. Filed Oct. 16, 1922.



The word "Konkrete" is disclaimed apart from the other and characteristic features of the mark. The cen-

tral legend and the words "Exterior Stucco" are also disclaimed.

Particular description of goods.—Portland-Cement Stucco Mixture.

Claims use since Apr. 1, 1922.

Ser. No. 171,194. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PENINSULAR HONEY PRODUCERS, Rudyard, Mich. Filed Sept. 21, 1922.



No claim is made to the exclusive use of the word "Honey" apart from the mark shown on the drawing.

Particular description of goods.—Comb and Extracted Honey.

Claims use since May 12, 1922.

Ser. No. 171,195. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VERN C. BARTLETT, Joplin, Mo. Filed Oct. 25, 1922.

TINALL

Particular description of goods.—Bath or Flux.

Claims use since May 1, 1922.

Ser. No. 171,370. (CLASS 39. CLOTHING.) LA CROSSE RUBBER MILLS CO., La Crosse, Wis. Filed Oct. 30, 1922.

BADGER
RUBBER MILLS CO.
LACROSSE, WIS. U.S.A.

No claim is made for "La Crosse, Wis. U. S. A." apart from the mark shown by the drawing.

Particular description of goods.—Rubber Boots and Shoes.

Claims use since July, 1921.

Ser. No. 171,744. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed Nov. 8, 1922.

STANOLIND

Particular description of goods.—Candles.

Claims use since Mar. 13, 1913.

Ser. No. 171,854. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE MILLVILLE MANUFACTURING COMPANY, Philadelphia, Pa. Filed Nov. 11, 1922.



The words "Diaper" and "Birds Eye" form no part of the mark. The vertical lines indicate red color, the interrupted cross hatching within the circle around the center star conventionally indicating yellow.

Particular description of goods.—Diaper Cloth in the Piece.

Claims use since spring of 1897.

Ser. No. 172,190. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JAMES, BARON ASHTON, doing business as Jas. Williamson & Son, Lancaster, England. Filed Nov. 17, 1922. Under ten-year proviso.



LANCASTER
WINDOW BLINDS

Particular description of goods.—Fabric for Window Shades.

Claims use since 1887.

Ser. No. 172,191. (CLASS 20. LINOLEUM AND OILED CLOTH.) JAMES, BARON ASHTON, doing business as Jas. Williamson & Son, Lancaster, England. Filed Nov. 17, 1922. Under ten-year proviso.



LANCASTER

Particular description of goods.—Oil Fabrics for Floor Coverings, Table Coverings, and Upholsterings, Table Baize, Leather Cloth, Japanned Leather Cloth, and Other Oil Fabrics.

Claims use since 1887.

Ser. No. 172,192. (CLASS 20. LINOLEUM AND OILED CLOTH.) JAMES, BARON ASHTON, doing business as Jas. Williamson & Son, Lancaster, England. Filed Nov. 17, 1922. Under ten-year proviso.



LANCASTER LINOLEUM

Particular description of goods.—Linoleum.

Claims use since 1887.

Ser. No. 172,863. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DE LAND CITRUS GROWERS ASSN., De Land, Fla. Filed Dec. 4, 1922.

CANARY

Particular description of goods.—Fresh Citrous Fruits.

Claims use since 1913.

Ser. No. 173,182. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EVERETT, HEANEY & CO. INC., New York, N. Y. Filed Dec. 11, 1922.

INECITA

Particular description of goods.—Cotton Piece Goods.

Claims use since 1909.

Ser. No. 173,671. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. A. PARDOE CO., Omaha, Nebr. Filed Dec. 21, 1922.

TOASTED POP CORN
(MALTED)
It's Different

No claim made to the words "Toasted Pop Corn Malted—It's Different" except in connection wtih the mark as shown.

Particular description of goods.—Toasted Pop Corn.

Claims use since Nov. 1, 1921.

Ser. No. 174,139. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAISON GERRY, INC., New York, N. Y. Filed Jan. 8, 1923.

Gerry

Particular description of goods.—Cream, Lotion, Powder, Rouge, Eyebrow Pencils, and Lip Sticks.

Claims use since November, 1921.

Ser. No. 174,512. (CLASS 33. GLASSWARE.) DETRO SALES SERVICE CO., Detroit, Mich. Filed Jan. 12, 1923.

The Optoshield

Particular description of goods.—Glass Antiglare Shields.

Claims use since Nov. 21, 1922.

Ser. No. 175,198. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JENKINS DRUG COMPANY, Bryan, Tex. Filed Jan. 27, 1923.

CITO-CURA

Particular description of goods.—Internal and External Remedy for Diseases of the Stomach, Blood, and Liver and a Relief for Bites, Stings, Burns, and Sprains.
Claims use since December, 1892.

Ser. No. 175,429. (CLASS 27. HOROLOGICAL INSTRUMENTS.) GEORGE J. KELLER, Newark, N. J. Filed Feb. 2, 1923.

Hiram

Particular description of goods.—Watches.
Claims use since July 26, 1921.

Ser. No. 175,697. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. RUDOLF ARCULARIUS, doing business as Arcula, Chemische Fabrik, Rostock, Germany. Filed Feb. 8, 1923.

Peptozon

Particular description of goods.—Preparation for Treatment of Indigestion.
Claims use since July 1, 1915.

Ser. No. 176,082. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KENWOOD DAIRY COMPANY, Chicago, Ill. Filed Feb. 15, 1923.



Applicant disclaims the words "Safe Milk" apart from the mark shown in the drawing.
Particular description of goods.—Raw Milk.
Claims use since May 1, 1922.

Ser. No. 176,215. (CLASS 15. OILS AND GREASES.) PREMIER REFINING COMPANY, Indianapolis, Ind. Filed Feb. 17, 1923.

PREMIER

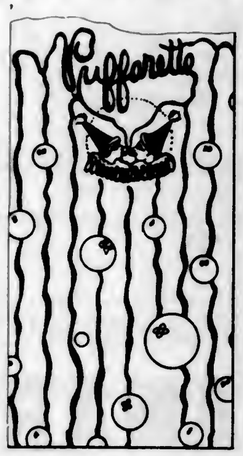
Particular description of goods.—Gasoline.
Claims use since May 15, 1922.

Ser. No. 176,525. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN BLEACHED GOODS COMPANY, INC., New York, N. Y. Filed Feb. 24, 1923.



The right to register the term "Full Weight" under the Trade-Mark Act of 1905 apart from the mark as shown is disclaimed, however reserving common-law rights in the same and the right to register under such other acts of Congress as may be applicable.
Particular description of goods.—Cotton Piece Goods.
Claims use since on or about Jan. 7, 1921.

Ser. No. 176,598. (CLASS 17. TOBACCO PRODUCTS.) BONWIT TELLER & Co., New York, N. Y. Filed Feb. 26, 1923.



Particular description of goods.—Cigarettes and Smoking Tobacco.
Claims use since Jan. 15, 1923.

Ser. No. 176,811. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE YOUNGSTOWN BARBER SUPPLY CO., doing business as Silver Bell Chemical Co., Youngstown, Ohio. Filed Mar. 1, 1923.

LUSTRE-SHEEN

Particular description of goods.—Hair Cream.
Claims use since 1917.

Ser. No. 177,237. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MEDOC COMPANY, Milwaukee, Wis. Filed Mar. 10, 1923.

Medoc
(MEE-DOK)
REMEDY
TRADE MARK

All of the wording appearing in the drawing with the exception of the words "Medoc" and "Mee-dok" are disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—Medicinal Preparation Containing Chemical and Galinical Ingredients, Either in the Form of a Salve, Powder, or a Liquid, for External and Internal Use.
Claims use since Sept. 28, 1922.

Ser. No. 177,496. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) LOUIS LEVUSSOVE, New York, N. Y. Filed Mar. 15, 1923.

Beefel Hair

No claim is made to the word "Hair" apart from the mark as shown on the drawing.
Particular description of goods.—Human and Animal Hair.
Claims use since December, 1922.

Ser. No. 177,934. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VOSS & STERN, New York, N. Y. Filed Mar. 23, 1923.

Crepe Isabelle

No claim is made to the word "Crepe" apart from the mark shown on the drawing.
Particular description of goods.—Silk Piece Goods.
Claims use since May 29, 1922.

Ser. No. 177,964. (CLASS 39. CLOTHING.) DETROIT HOSIERY COMPANY, Detroit, Mich. Filed Mar. 24, 1923.

HIMBRO

Particular description of goods.—Hosiery.
Claims use since March, 1921.

Ser. No. 177,985. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MORISSE LACE & EMBROIDERY CO., St. Louis, Mo. Filed Mar. 24, 1923.



Particular description of goods.—Laces, Handkerchiefs, and Embroideries, and Silk Goods Both in the Piece and in the Bolt.
Claims use since 1900.

Ser. No. 178,057. (CLASS 12. CONSTRUCTION MATERIALS.) MURDOFF-SPICER MANUFACTURING COMPANY, Los Angeles, Calif. Filed Mar. 26, 1923.



No claim made to the words "Air Space Coverings."
Particular description of goods.—Pipe and Boiler Insulating Materials and Refrigerator-Pipe Insulations.
Claims use since Aug. 26, 1922.

Ser. No. 178,222. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA CO-OPERATIVE CANNERIES, San Francisco, Calif. Filed Mar. 29, 1923.

Milady

Particular description of goods.—Fruit Salad, Canned Fruits, and Canned Vegetables.
Claims use since July 21, 1922.

Ser. No. 178,432. (CLASS 39. CLOTHING.) C. H. DALY & SON SHOE COMPANY, INC., Abington, Mass. Filed Apr. 2, 1923.

Daly Shoes for Daily Wear

No claim is made to exclusive right to the use of the words "Shoes for Wear" except in connection with the other features of the trade-mark.
Particular description of goods.—Leather Belts and Shoes.
Claims use since about Dec. 27, 1922.

Ser. No. 178,680. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE LOUIS STIX CO., Cincinnati, Ohio, and New York, N. Y. Filed Apr. 6, 1923.

DIXIWAY

The mark consists of the word "Dixiway."
Particular description of goods.—Brown Cottons in the Piece.
Claims use since Mar. 12, 1923.

Ser. No. 179,304. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. BLOUNT HUNTER, doing business as The Choc-o-Vita Company, Norfolk, Va. Filed Apr. 18, 1923.

CHOC-O-VITA

Particular description of goods.—Food Product Composed of Chocolate, Cocoa, Sugar, and Milk.
Claims use since on or about Mar. 1, 1923.

Ser. No. 179,430. (CLASS 39. CLOTHING.) JOSEPH ROSENZWEIG, Troy, N. Y. Filed Apr. 20, 1923.



Particular description of goods.—Underwear, Union Suits, Shirts, Drawers, Notions, and Hosiery Made from Knit Goods and Textile Fabric for Men, Women, and Children.
Claims use since May 1, 1911.

Ser. No. 179,518. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COHN HALL MARX CO., New York, N. Y. Filed Apr. 23, 1923.

QUEENSWEAR

The mark consists of the word "Queenswear."
Particular description of goods.—Cotton Piece Goods.
Claims use since Mar. 6, 1923.

Ser. No. 179,581. (CLASS 2. RECEPTACLES.) BOBET BROTHERS, INC., New Orleans, La. Filed Apr. 24, 1923. Under ten-year proviso.

BOBET

Particular description of goods.—Staves.
Claims use since 1859.

Ser. No. 179,609. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VAN VLEET-MANSFIELD DRUG CO., doing business as La Creole Laboratories, Memphis, Tenn. Filed Apr. 24, 1923.

"LA CREOLE"



The portrait comprising part of trade-mark is that of D. Marie Bowker.
Particular description of goods.—Creo-Clay Face Pack, Hair Dressing, Hair-Color Restorer, Hair Tonic, Cocoa-Olive Shampoo, Almond Lotion, Cold Cream, Vanishing Cream, Massaging Cream, Cleansing Cream, Talcum Powder, Lip Stick, Eyebrow Pencils, Rouge, Face Powder, and Perfumes.
Claims use since Oct. 1, 1898.

Ser. No. 180,320. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FLOR. BARBLAN Y RIMATHE, Malaga, Spain. Filed May 8, 1923.



Barblan's.

The name "Barblan" appearing on the drawing is in the handwriting of the applicant.
Particular description of goods.—Edible Oils—Namely, Olive Oil.
Claims use since August, 1921.

Ser. No. 180,324. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) BULL DOG PLASTER GRIP COMPANY, Oakland, Calif. Filed May 8, 1923.

Bull Dog Plaster Grip



The words "Plaster Grip" are disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Fasteners for Securing and Spacing Metal Laths.
Claims use since Dec. 14, 1922.

Ser. No. 180,546. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MINUTE TAPIOCA COMPANY, Orange, Mass. Filed May 12, 1923.



In the drawing the vertical lining indicates red and the horizontal lining blue.
Particular description of goods.—Tapioca Preparations—Namely, Tapioca Puddings of Different Flavors.
Claims use since Apr. 24, 1923.

Ser. No. 180,664. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) OTTO H. HINCK, New York, N. Y. Filed May 15, 1923.



SARATOGA SUITINGS

The exclusive use of the word "Suitings" is disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Cotton Piece Goods.
Claims use since 1914.

Ser. No. 180,684. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) ATLANTIC METAL HOSE CO., INC., New York, N. Y. Filed May 16, 1923.

"AIRFLATE"

Particular description of goods.—Flexible Metal Hose.
Claims use since October, 1921.

Ser. No. 180,774. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JULES PICOT, Paris, France, assignor to Societe Anonyme De La Lessive Phenix, Etablissements J. Picot, Paris, France, a Corporation of France. Filed May 17, 1923.



Particular description of goods.—Lye Products.
Claims use since Nov. 17, 1879.

Ser. No. 180,879. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. A. MURDOCK MFG. CO., Kansas City, Mo. Filed May 19, 1923.

TROPICAL

Particular description of goods.—Spices, Prepared Mustard, and Prepared Mustard Cream Salad.
Claims use since 1914.

Ser. No. 180,955. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) M. V. ANDERSON & COMPANY, Lewiston, Me. Filed May 22, 1923.

Maban

Particular description of goods.—Perfumes, Toilet Water, Sachet, Talcum Powder, Face Powder, Clay Massage, Deodorant, Hair Tonic, Face Creams, Cold Cream, Cleansing Cream, Foundation Cream, Shampoo, Skin Lotion, Nail Polish, Bleach and Astringent Lotion, Nail-Polish Remover, Cuticle Remover, Depilatory, and Complexion Powder.
Claims use since Mar. 14, 1921.

Ser. No. 181,041. (CLASS 45. BEVERAGES, NONALCOHOLIC.) S. S. PIERCE CO., Boston, Mass. Filed May 23, 1923.

EPICURE

Particular description of goods.—Nonalcoholic, Maltless Fruit Sirups for Soft Drinks.
Claims use since May, 1921.

Ser. No. 181,066. (CLASS 32. FURNITURE AND UPHOLSTERY.) ENTERPRISE MATTRESS COMPANY, Boston, Mass. Filed May 24, 1923.



Particular description of goods.—Mattresses.
Claims use since about May 1, 1909.

Ser. No. 181,075. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ICA, AKTIENGESELLSCHAFT, Dresden, Germany. Filed May 24, 1923.

Dominar

Consists of the coined word "Dominar."
Particular description of goods.—Photographic Lenses.
Claims use since Dec. 21, 1920.

Ser. No. 181,084. (CLASS 39. CLOTHING.) B. F. MONTAGUE COMPANY INC., New York, N. Y. Filed May 24, 1923.

MON-O-TEX

Particular description of goods.—Men's, Women's, and Children's Fabric Gloves.
Claims use since Apr. 23, 1923.

Ser. No. 181,151. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) SOUTHERN YARN EXCHANGE, Baltimore, Md. Filed May 25, 1923.

Straight Stitch DIRKIST Art Needlework

Without waiving any common-law rights applicant disclaims any attempt to cover in this application the words "Straight Stitch" and "Art Needlework" except in the precise relation and association in which they are shown in the mark as a whole.

Particular description of goods.—Art Needlework—Namely, Textile Fabrics Which Have Been Stamped Ready for Embroidery.
Claims use since May 1, 1923.

Ser. No. 181,280. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INTERNATIONAL HARVESTER COMPANY, Chicago, Ill. Filed May 28, 1923.

McCORMICK-DEERING

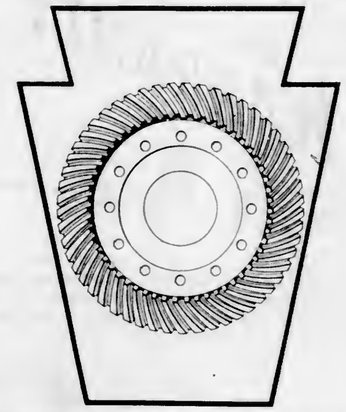
Particular description of goods.—Grain Binders, Rice Binders, Tractor Binders, Reapers, Headers, Header Binders, Mowers, Hayrakes, Sweep Rakes, Side-Delivery Rakes, Tedders, Hay Loaders, Hay Presses, Stackers, Combined Sweep Rakes and Stackers, Corn Binders, Corn Pickers, Corn Shellers, Cornstalk Rakes, Huskers, Shredders, Combined Huskers and Ensilage Cutters, Ensilage Harvesters, Silo Fillers, Ensilage Cutters, Stalk Cutters, Harrows, Feed Grinders, Grain Drills, Seeders, Plows, Cultivators, Lime Sowers, Fertilizer Distributors, Manure Spreaders, Binder Hitches, Knife Grinders, Land Rollers, Land Packers, Planters, Shock Gatherers, Shockers, Harvester Thrashers, Thrashers, Stripper Harvesters, Combined Side-Delivery Rakes and Tedders, Bunchers, Listers, Motor Cultivators, Beet Toppers, Beet Pullers, Beet Harvesters, Internal-Combustion Engines, Tractors, Cream Separators, Straw-Spreader Attachments, Stone-Bur Mills, Cane Mills, Tractor Hitches, Potato Diggers, Hemp Harvesters, Hemp Gather Binders, Hemp Scutchers, Hemp Brakes, Hemp-Tow Cleaners, Feeders for Hemp Scutchers, and Separate Parts for Each of Said Machines.
Claims use since about Apr. 1, 1922.

Ser. No. 181,445. (CLASS 37. PAPER AND STATIONERY.) THE HAMERSLEY MANUFACTURING COMPANY, New York, N. Y. Filed June 1, 1923.

THE HAMERSLEY ROLL

Without waiving any rights at common law applicant disclaims any attempt to cover in this application apart from the mark as a whole the words "The" and "Roll."
Particular description of goods.—Wax Paper.
Claims use since Dec. 15, 1922.

Ser. No. 181,504. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF). WARREN GEAR PRODUCTS COMPANY, Warren, Pa. Filed June 2, 1923.



No claim is made herein to the representation of the gear apart from the mark shown.

Particular description of goods.—Gearings for Motor Cars.
Claims use since Jan. 1, 1923.

Ser. No. 181,706. (CLASS 39. CLOTHING.) SOCIETE ANONYME DES CHAUSSURES F. PINET, Paris, France. Filed June 8, 1923.



No claim is made to the words "Paris," "De Paris," and "Brevete" apart from the mark shown in the drawing. The mark is the representation of the medal granted by L'Exposition Universelle de Paris in 1867.

Particular description of goods.—Women's, Men's, and Children's Leather Boots and Shoes.
Claims use since 1905.

Ser. No. 181,848. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NIELSEN PACKING CO., San Francisco, Calif. Filed June 11, 1923.

EL PRIMERO

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since Jan. 9, 1923.

Ser. No. 181,852. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NIELSEN PACKING CO., San Francisco, Calif. Filed June 11, 1923.

WARRANTY

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since Jan. 9, 1923.

Ser. No. 181,855. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NORTHWESTERN BAKERS & CONFECTIONERS CO., Minneapolis, Minn. Filed June 11, 1923. Under ten-year proviso.

Bestyet

Particular description of goods.—Baking Powder, Bicarbonate of Soda, Carbonic Powder, Cream of Tartar, Cream of Tartar Substitute, Glycerin, Salt, and Starch Petrolatum.
Claims use since Oct. 1, 1923.

Ser. No. 181,939. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PASQUALE ADELBERTO CAPORALE, doing business as Leoncavallo Sauce Company, Philadelphia, Pa. Filed June 13, 1923.

Leoncavallo

The name "Leoncavallo" is the name of a celebrated Italian composer, deceased 1919.
Particular description of goods.—Spaghetti and Spaghetti Sauces.
Claims use since May 2 1923.

Ser. No. 181,966. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) TYER RUBBER COMPANY, Andover, Mass. Filed June 13, 1923.

PEPPY PLAY BALL

No exclusive claim is made to the words "Play Ball" excepting in the combination as shown and without waiving any of applicant's common-law rights thereto.
Particular description of goods.—Balls Made Wholly or in Part of Rubber.
Claims use since Mar. 15, 1923.

Ser. No. 182,019. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) STUMPP & WALTER CO., New York, N. Y. Filed June 14, 1923.

Particular description of goods.—Vegetable, Flower, and Grass Seeds and Flowering Bulbs.
Claims use since January, 1915.

Ser. No. 182,096. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. A. HOFFMAN CANDY CO., Los Angeles, Calif. Filed June 16, 1923.

SAMARKAND

Particular description of goods.—Candy.
Claims use since Apr. 1, 1923.

Ser. No. 182,157. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRY ROBERT LINDER, Los Angeles, Calif. Filed June 18, 1923.

MT. WHITNEY

The Height of Quality

Applicant disclaims the exclusive right to use of the words "The Height of Quality" apart from the mark as shown.
Particular description of goods.—Coffee, Spices, Peanut Butter, Salad Oil, Salad Dressing, Vinegar, Cocoa, Jellies, Pickles, Jams, and Marmalades.
Claims use since Jan. 23, 1923.

Ser. No. 182,374. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FEDERAL FRUIT DISTRIBUTORS, Fresno, Calif. Filed June 23, 1923.

FEDERAL

Particular description of goods.—Fresh Grapes, Fresh Peaches, Fresh Plums, and Fresh Citrous Fruits.
Claims use since Mar. 10, 1923.

Ser. No. 182,384. (CLASS 43. THREAD AND YARN.) SOCIETE EN COMMANDITE MAURICE FRINGS & CIE., Paris, France. Filed June 23, 1923.

L. V.

Particular description of goods.—Cotton Thread.
Claims use since 1897.

Ser. No. 182,394. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAUL ANTLE, doing business as Mainette Company, St. Louis, Mo. Filed June 25, 1923.

Mainette

Particular description of goods.—Face Powder, Cold Cream, Vanishing Cream, Talcum Powder, Lip Stick, Rouge, and Compact Face Powder.
Claims use since Jan. 8, 1923.

Ser. No. 182,475. (CLASS 39. CLOTHING.) LEW-MAR PRODUCTS COMPANY, New York, N. Y. Filed June 26, 1923.

LEW MAR

Particular description of goods.—Rubber Bathing Caps and Water Guards for Bathing Caps.
Claims use since April, 1923.

Ser. No. 182,507. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) FORTUNA-WERKE SPEZIALMASCHINENFABRIK G. M. B. H., Cannstatt, Germany. Filed June 27, 1923.

SAS

Particular description of goods.—Optical Apparatus for Adding Attraction to Advertisements, Drawing Apparatus and Copying Apparatus Consisting of Printing Frames, T Squares, Sets of Drawing Instruments, Drawing Boards, Drawing Tables, Triangular Set Squares and Rulers, Equilibrating or Counterbalancing Devices.
Claims use since July, 1914.

Ser. No. 182,508. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FORTUNA-WERKE SPEZIALMASCHINENFABRIK G. M. B. H., Cannstatt, Germany. Filed June 27, 1923.

SAS

Particular description of goods.—Machines and Apparatus for Working Leather and Other Soft Materials and for the Manufacturing of Boots—Namely, Heel Machines, Tapering Machines, Finishing Machines, Blocking Machines, Indenting Machines, Leveling Machines, Channeling Machines, Glazing Machines, Skiving Machines, Slitting Machines, Cutting Machines, and Splitting Machines, Turning-Over Machines, Fulling Machines, Blackening Machines, Lasting Machines, Boarding and Graining Machines, Machines for Taking Shoes Off the Last, Knives; Machine Tools for Working Metal, Wood, and Stone; Machines and Apparatus for the Production and Treatment of Paper and Paper Articles—Namely, Printing Presses, Label Machines, Shrinking Machines, Folding Machines, Tacking Machines, Calendering Machines, Pasting Machines, Ruling Machines, Eyeleting Machines, Eyelet Presses, Plaiting Machines, Stamping Machines, and Labeling Machines, and Bell-Ringing Machines, Winches, Nailing Machines, Ball and Roller Bearings, Balls, and Rollers.
Claims use since July, 1914.

Ser. No. 182,525. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE J. B. WILLIAMS COMPANY, Glastonbury, Conn. Filed June 27, 1923.

Wms

Particular description of goods.—Toilet Powders, Toilet Waters, After-Shaving Lotions, and Preparations for Cleaning the Teeth.
Claims use since about June 16, 1923.

Ser. No. 182,629. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MINERVA VAVRA, doing business as M. Vavra Drug Co., Chicago, Ill. Filed June 29, 1923.

JEDOKAZ



The picture shown as part of trade-mark is that of applicant's father, Vojta Vavra (deceased).
Particular description of goods.—Antiseptic Solution Used as a Medicine.
Claims use since Jan. 1, 1895.

Ser. No. 182,662. (CLASS 39. CLOTHING.) J. P. LEVY SHOE CO. INC., Hartford, Conn. Filed June 30, 1923.

John Levy

The trade-mark consists of a facsimile signature as written by J. P. Levy an officer and principal stockholder of the applicant, which trade-mark and signature the applicant has the right to use.
Particular description of goods.—Leather and Leather and Fabric Boots and Shoes.
Claims use since Dec. 31, 1921.

Ser. No. 182,682. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATHAN P. STECKLER, doing business as Menstruol Laboratories, New York, N. Y. Filed June 30, 1923.

Menstruoline

Particular description of goods.—Medicinal Capsule for the Treatment of Female Disorders Due to Circulatory Disturbances of the Generative Organs.
Claims use since May 5, 1923.

Ser. No. 182,691. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE H. N. WHITE COMPANY, Cleveland, Ohio. Filed June 30, 1923.



Particular description of goods.—Trumpets, Cornets, Trombones, Band and Orchestra Horns, Alto Band and Orchestra Concert Horns, Euphoniums; Baritone, Tenor, and Bass Horns; Tubas, Saxophones, Bugles, Drums, Flutes, and Clarinets.
Claims use since about Oct. 1, 1922.

Ser. No. 182,692. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D. HENRY ROLLER, doing business as Henry Roller, Muncie, Ind. Filed June 29, 1923.

KANDY KLAN

Particular description of goods.—Candies.
Claims use since May 31, 1923.

Ser. No. 182,763. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEO. F. MEYER, Seymour, Ind. Filed July 3, 1923.

SMOOTHENE

Particular description of goods.—Face and Hand Lotion.
Claims use since Mar. 3, 1899.

Ser. No. 182,813. (CLASS 33. GLASSWARE.) HOLOPHANE GLASS COMPANY, New York, N. Y. Filed July 5, 1923.

2-WAY

Particular description of goods.—Glass Globes and Reflectors for Artificial Light.
Claims use since June 25, 1923.

Ser. No. 182,814. (CLASS 33. GLASSWARE.) HOLOPHANE GLASS COMPANY, New York, N. Y. Filed July 5, 1923.

4-WAY

Particular description of goods.—Glass Globes and Reflectors for Artificial Light.
Claims use since June 25, 1923.

Ser. No. 182,926. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE NORWALK TIRE & RUBBER COMPANY, Norwalk, Conn. Filed July 7, 1923.



Particular description of goods.—Elastic Vehicle Tires.
Claims use since June 1, 1923.

Ser. No. 182,970. (CLASS 39. CLOTHING.) JOSEPH S. HOFFMAN, Baltimore, Md. Filed July 9, 1923.

Boys PRINCE JUNIOR Clothes

The expression "Boys' Clothes" is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Boys' and Children's Outer-Wear Suits.
Claims use since Mar. 15, 1919.

Ser. No. 182,989. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PEERLESS COTTON MILLS, Thomaston, Ga. Filed July 9, 1923.

PAGE

Particular description of goods.—Sheets, Sheeting, Pillowcases, and Bolster Coverings of Cotton.
Claims use since Aug. 23, 1921, on sheets, pillowcases, and bolster coverings; since December, 1921, on sheeting.

Ser. No. 182,991. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PEERLESS COTTON MILLS, Thomaston, Ga. Filed July 9, 1923.



Particular description of goods.—Sheets, Sheetings, Pillowcases, and Bolster Coverings of Cotton.
Claims use since Aug. 23, 1921, on sheets, pillowcases, and bolster coverings; since December, 1921, on sheeting.

Ser. No. 183,068. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) STANLEY F. HANZEL, doing business as S. F. Hanzel Card Co., Chicago, Ill. Filed July 11, 1923.

SWEETHEART

Particular description of goods.—Playing Cards.
Claims use since June 19, 1923.

Ser. No. 183,215. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) B. B. & R. KNIGHT, INC., Providence, R. I., and New York, N. Y. Filed July 14, 1923.



The word "Plantation" and the pictorial representation of a plantation as shown in said drawing being alternative.
Particular description of goods.—Bleached Cotton Piece Goods—Namely, Cambric, Muslin, Nainsook.
Claims use since 1895.

Ser. No. 183,243. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ARMAND COMPANY, Des Moines, Iowa. Filed July 16, 1923.

GIPSY FLAME

Trade-mark "Gipsy Flame."
Particular description of goods.—Face Powder, Cold Cream, Rouge, and Perfume.
Claims use since June 1, 1923.

Ser. No. 183,244. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ARMAND COMPANY, Des Moines, Iowa. Filed July 16, 1923.

Orange Flame

"Orange Flame."
Particular description of goods.—Rouge.
Claims use since Sept. 18, 1922.

Ser. No. 183,298. (CLASS 39. CLOTHING.) INTERNATIONAL SHOE COMPANY, St. Louis, Mo. Filed July 16, 1923.

Pluck Special

Particular description of goods.—Men's Shoes of Leather.
Claims use since 1922.

Ser. No. 183,312. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE PAGONIS, doing business as George Pagonis Co., New York, N. Y. Filed July 16, 1923.



The drawing is lined to indicate the color red.
Particular description of goods.—Shampoo Preparations.
Claims use since July 1, 1922.

Ser. No. 183,313. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE PAGONIS, doing business as George Pagonis Co., New York, N. Y. Filed July 16, 1923.



The drawing is lined to indicate the color red.
Particular description of goods.—Waving and Curling Preparation for the Hair.
Claims use since July 1, 1922.

Ser. No. 183,370. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK FOROWICZ, Homestead, Pa. Filed July 18, 1923.



Particular description of goods.—Medicinal Tea in Dry Form to be Used for Making a Tonic Beverage.
Claims use since June 20, 1923.

Ser. No. 183,373. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GILBERT BROS. & CO., INC., Baltimore, Md. Filed July 18, 1923. Under ten-year proviso.



Particular description of goods.—Conditioning Powder to be Added to Horse, Cattle, and Poultry Feed.
Claims use since Mar. 13, 1893.

Ser. No. 183,375. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GILBERT BROS. & CO., INC., Baltimore, Md. Filed July 18, 1923.

GILBRO'S



"PURR" OXIDE CREAM

No claim made to the exclusive right to the use of the words "Oxide Cream" apart from the mark shown in the drawing.
Particular description of goods.—Cream for Use in Cleansing the Skin and for Use in Allaying Irritations of the Skin.
Claims use since May 14, 1919.

Ser. No. 183,448. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBERT L. GRAHAM, doing business as The Piromir Co., Hastings, Nebr. Filed July 19, 1923.

PIROMIR

Particular description of goods.—Tooth Paste.
Claims use since Sept. 1, 1922.

Ser. No. 183,457. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TAYLOR GLAND RESEARCH LABORATORIES, INC., Philadelphia, Pa. Filed July 19, 1923.

TAYLOR'S GLANDUCTON

Particular description of goods.—Tablets for Nervousness, Headaches, Anæmia, Mental Depression, Insomnia, Glandular Weakness, and Lack of Vigor.
Claims use since Jan. 2, 1919.

Ser. No. 183,464. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BEURET & COMPANY, INCORPORATED, New York, N. Y. Filed July 20, 1923.

Amazon SUITING

No claim is made to the use of the word "Suiting" apart from the mark shown on the drawing, no common-law rights to this word being waived.
Particular description of goods.—Piece Goods of Cotton and Mohair or Cotton and Worsted for Men's Suiting.
Claims use since about Sept. 26, 1919.

Ser. No. 183,472. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ESTATE OF J. M. FEY, by Peoples Savings & Trust Co., Hazleton, Pa., administrator, Hazleton, Pa. Filed July 20, 1923.

COUNCIL CUP

Particular description of goods.—Coffee.
Claims use since Mar. 20, 1923.

Ser. No. 183,518. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JNO. B. DANIEL INC., Atlanta, Ga. Filed July 21, 1923. Under ten-year proviso.

CHENEY'S

Particular description of goods.—Expectorant.
Claims use since July 4, 1876.

Ser. No. 183,528. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MECKE & CO., New York, N. Y. Filed July 21, 1923.



Particular description of goods.—Coffee.
Claims use since about Jan. 1, 1918.

Ser. No. 183,529. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MECKE & Co., New York, N. Y. Filed July 21, 1923.

LA CRUZ

Particular description of goods.—Coffee.
Claims use since about Jan. 1, 1913.

Ser. No. 183,598. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SALTRATES LIMITED, London, England. Filed July 23, 1923.

KAL-SEL

Particular description of goods.—Saline Preparation for Rheumatism, Kidney Disorders, Constipation, Stomach, Blood, Nervous, and Other Derangements.
Claims use since May, 1915.

Ser. No. 183,639. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) M. CATALANO AND COMPANY, Milwaukee, Wis. Filed July 24, 1923.



CONTE ROSSO



Particular description of goods.—Olive Oil.
Claims use since June 1, 1923.

Ser. No. 183,646. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DENNEY & COMPANY OF OREGON, Medford, Oreg. Filed July 25, 1923.

DE LUXE

Particular description of goods.—Fresh Deciduous Fruits.
Claims use since June 20, 1923.

Ser. No. 183,648. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) E-Z-WAY Co., Oakland, Calif. Filed July 25, 1923.

E-Z-WAY

Applicant disclaims the letters "E-Z" apart from the other features of the mark.
Particular description of goods.—Soap in Powdered Form.
Claims use since Feb. 1, 1920.

Ser. No. 183,706. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ILLINOIS WATCH CASE COMPANY, Elgin, Ill. Filed July 26, 1923. Under ten-year proviso.

SUPREME

Particular description of goods.—Watchcases and Watch Movements.
Claims use since about 1894.

Ser. No. 183,720. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHENO-BANE PRODUCTS Co., Sand Springs, Okla., and St. Louis, Mo. Filed July 26, 1923.

PHENO-BANE

Particular description of goods.—Disinfectants, Deodorants, Cleaners, Vermicides, Germicides, Fungicides, and Insecticides.
Claims use since Sept. 1, 1920.

Ser. No. 183,731. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE CHISWICK POLISH CO. LTD., Chiswick, London, England. Filed July 27, 1923.



No claim is made to the words "Antiseptic Polish for Polishing Floors, Lino & Furniture, also Leather & Coachwork of Motors, Etc." and "London, England" except in connection with the mark as shown. No common-law right in the mark or in any feature thereof is waived by this disclaimer.
Particular description of goods.—Polishes for Furniture, Floors, and Automobiles.
Claims use since Dec. 14, 1922.

Ser. No. 183,754. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) G. F. MITCHELL & SON, Cleveland, Ohio. Filed July 27, 1923.

WASHRITE

Particular description of goods.—Washing Machines and Wringers.
Claims use since July 10, 1923.

Ser. No. 183,762. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE SECURITY METAL PRODUCTS Co., Cincinnati, Ohio. Filed July 27, 1923.

"PORCENAM"

Particular description of goods.—Screw Caps, Tops, and Covers for Bottles, Jars, Cases, Boxes, and Similar Containers.
Claims use since Dec. 20, 1922.

Ser. No. 183,820. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CRENSHAW & HORNE, Augusta, Ga. Filed July 30, 1923.



No claim is made for the words "Natures Treatment for Tuberculosis" apart from the mark shown in the drawing.
Particular description of goods.—Preparation for Use in the Treatment of Tuberculosis.
Claims use since July 1, 1923.

Ser. No. 183,823. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CUPPLES COMPANY MANUFACTURERS, St. Louis, Mo. Filed July 30, 1923.

Two-Up

Particular description of goods.—Golf Balls.
Claims use since on or about Dec. 20, 1922.

Ser. No. 183,905. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) FRED BYRON, San Francisco, Calif. Filed Aug. 1, 1923.



The lining on the drawing is intended to denote the color red.
Particular description of goods.—Ready-Mixed Paints, Varnishes, Paint Oils, Putty.
Claims use since June 21, 1923.

Ser. No. 183,924. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed Aug. 1, 1923.

Kantkrush Krepe

No claim is made herein to the words in the mark except in the association shown, no common-law rights, however, being waived. Trade-mark "Kantkrush Krepe."
Particular description of goods.—Silk, Artificial-Silk, Cotton, Linen, and Woolen Piece Goods.
Claims use since May 23, 1923.

Ser. No. 183,956. (CLASS 32. FURNITURE AND UPHOLSTERY.) AMERICAN WRITING MACHINE COMPANY, Ilion, N. Y., and Newark, N. J. Filed Aug. 2, 1923.

"Invincible"

Particular description of goods.—Swinging Shelf to be Attached to a Desk or the Like and Used as a Typewriter Support or for Similar Purposes.
Claims use since about 1909.

Ser. No. 184,042. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SEVEN-O-CO., Philadelphia, Pa. Filed Aug. 3, 1923. Under ten-year proviso.

HANEY'S DISTILLED VINEGAR with PINEAPPLE FLAVOR



Particular description of goods.—Vinegar.
Claims use since 1876.

Ser. No. 184,069. (CLASS 39. CLOTHING.) CHAS DOUGLIS MACK CO., New York, N. Y. Filed Aug. 4, 1923.



No claim made to the exclusive use of the word "Suit" apart from the mark as shown in the drawing.
Particular description of goods.—Men's, Young Men's, and Boys' Clothes—Namely, Overcoats; Two-Piece Suits—viz, Coats and Trousers; Three-Piece Suits—viz, Coats, Vests, and Trousers; and Coats, Vests, and Trousers Separately.
Claims use since July 31, 1923.

Ser. No. 184,072. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) L. B. FOSTER CO., INC., Pittsburgh, Pa. Filed Aug. 4, 1923.



No claim is made to the representation of rails. The words "Pittsburgh" and "Pennsylvania" and the words "Trade Mark" are disclaimed apart from the complete mark shown in the drawing.
Particular description of goods.—New and Renewed Steel Rails.
Claims use since July 15, 1923.

Ser. No. 184,073. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) L. B. FOSTER CO. INC., Pittsburgh, Pa. Filed Aug. 4, 1923.



The words "Pittsburgh—New York" are disclaimed, as well as the representation of the rails.
Particular description of goods.—New and Renewed Steel Rails.
Claims use since July 15, 1923.

Ser. No. 184,198. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN BLEACHED GOODS COMPANY, INC., New York, N. Y. Filed Aug. 8, 1923.

PERMACHECK

Particular description of goods.—Cotton Piece Goods.
Claims use since about June, 1923.

Ser. No. 184,199. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN BLEACHED GOODS COMPANY, INC., New York, N. Y. Filed Aug. 8, 1923.

PERMACLOTH

Particular description of goods.—Cotton Piece Goods.
Claims use since about June, 1923.

Ser. No. 184,202. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CROWN RADIO MFG. CORP., New York, N. Y. Filed Aug. 8, 1923.

U.S.L.

Particular description of goods.—Radio Electric Apparatus, as Follows: Condensers, Amplifiers, Rheostats, Detectors, Contacts, Coils, Transmitters, Microphones, Wire, Couplers, Insulators, Transformers, Telephone Receivers, Inductors, Variometers, Vacuum Tubes, Electron Tubes, Wire Antennæ, and Terminals.
Claims use since about Feb. 1, 1923.

Ser. No. 184,233. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHEMOSAN AKTIENGESELLSCHAFT, Vienna, Austria. Filed Aug. 9, 1923.

DIPHASOL

Particular description of goods.—Medicines and Pharmaceutical Preparations to be Used for Treating Luetic Diseases of Human Beings as Well as of Animals and to be Administered by Injection.
Claims use since Oct. 24, 1922.

Ser. No. 184,305. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) SOCIETE ANONYME DES ANCIENS ETABLISSEMENTS PANHARD & LEVASSOR, Paris France. Filed Aug. 10, 1923.

PANHARD

Particular description of goods.—Automobiles, Automobile Trucks, Boats, Automobile Chassis, Canoes, Launches, and Parts of the Above.
Claims use since Aug. 6, 1891.

Ser. No. 184,307. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) SOCIETE ANONYME DES ANCIENS ETABLISSEMENTS PANHARD & LEVASSOR, Paris, France. Filed Aug. 10, 1923.

PANHARD ET LEVASSOR

Particular description of goods.—Automobiles, Automobile Trucks, Boats, Automobile Chassis, Canoes, Launches, and Parts of the Above.
Claims use since Aug. 6, 1891.

Ser. No. 184,484. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WONDERLITE PRODUCTS COMPANY, Casper, Wyo. Filed Aug. 14, 1923.

Wonderlite

Particular description of goods.—Complexion Clay.
Claims use since on about Jan. 1, 1923.

Ser. No. 184,507. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALPHONSE MALCUIT, Pittsfield, Mass. Filed Aug. 15, 1923.

MALCUIT'S

WINTALCAM

Particular description of goods.—Ointment for Hemorrhoids.
Claims use since July 1, 1923.

Ser. No. 184,511. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GERTRUDE CLAIRE O'NEIL, doing business as O'Neil's Pharmacy, Taunton, Mass. Filed Aug. 15, 1923.

LYCLOMUL

Particular description of goods.—Medicine for Coughs, Colds, Bronchitis, Whooping Cough, Asthma, Catarrh, and Throat and Lung Diseases.
Claims use since September, 1915.

Ser. No. 184,548. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAGGIE TAYLOR GLENN, Albuquerque, N. Mex. Filed Aug. 16, 1923.



Particular description of goods.—Hair Growers, Temple Grower, and Pressing Oil.
Claims use since Feb. 5, 1923.

Ser. No. 184,556. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MEI REN COMPANY, INC., Shanghai, China. Filed Aug. 16, 1923.



The Chinese characters shown in the mark spell "Pung Wo." The words are fictitious.
Particular description of goods.—Games Played with Pieces Somewhat Similar to Dominoes.
Claims use since Sept. 1, 1922.

Ser. No. 184,567. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE H. M. SCHAFF COAL COMPANY, Cleveland, Ohio. Filed Aug. 16, 1923.

Twilight Red Ash

The words "Red Ash" are disclaimed except in the mark as shown, but no common-law rights thereto are waived.
Particular description of goods.—Coal.
Claims use since Aug. 8, 1923.

Ser. No. 184,585. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BONDED PRODUCTS CORPORATION, New York, N. Y. Filed Aug. 17, 1923.

BOND

Particular description of goods.—Cold Cream.
Claims use since Jan. 4, 1923.

Ser. No. 184,586. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BONDED PRODUCTS CORPORATION, New York, N. Y. Filed Aug. 17, 1923.

BONDED

Particular description of goods.—Cold Cream.
Claims use since about Jan. 4, 1923.

Ser. No. 184,589. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN CAMPBELL & CO., New York, N. Y. Filed Aug. 17, 1923.

BANGO

Trade-mark "Bango."
Particular description of goods.—Color-Stripping or Dye-Removing Compound.
Claims use since Aug. 2, 1923.

Ser. No. 184,590. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN CAMPBELL & CO., New York, N. Y. Filed Aug. 17, 1923.

BANGO-LITE

The mark consists of the word "Bango-Lite."
Particular description of goods.—Color-Stripping or Dye-Removing Compound.
Claims use since Aug. 2, 1923.

Ser. No. 184,616. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MODERN PHARMACAL CO., INC., New York, N. Y. Filed Aug. 17, 1923.

ORTHINE

The mark consists of the word "Orthine."
Particular description of goods.—Preparation Intended to Remove Superfluous Fat.
Claims use since Jan. 1, 1922.

Ser. No. 184,623. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OLIVER S. SCHMIDT, doing business as Vitans Laboratories, San Francisco, Calif. Filed Aug. 17, 1923.

VITANS

Particular description of goods.—Preparations Used as Home Remedies—Namely, Gland-Invigorator Treatments.
Claims use since Mar. 1, 1922.

Ser. No. 184,628. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LILLIAN S. THOMAS, doing business as Froidevaux Cie., New York, N. Y. Filed Aug. 17, 1923.

SADAKO

Particular description of goods.—Bath Salts.
Claims use since June, 1913.

Ser. No. 184,630. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) WIZARD PHONOGRAPH COMPANY, Chicago, Ill. Filed July 9, 1923.



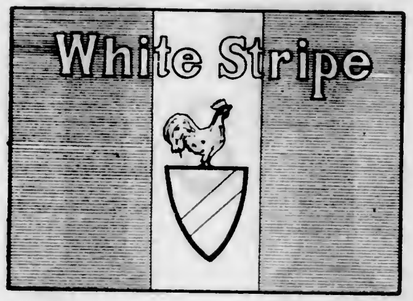
Applicant disclaims exclusive right to the word "Chicago" and the representation of a phonograph apart from the mark shown in the drawing.
Particular description of goods.—Phonographs.
Claims use since July 18, 1919.

Ser. No. 184,661. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES F. ELLIOTT, doing business as Stillwater Orchards Co., Courtland, Calif. Filed Aug. 18, 1923.

DELTA

Particular description of goods.—Fresh Deciduous Fruits.
Claims use since June, 1913.

Ser. No. 184,685. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RANCHO SESPE, Sespe, Calif. Filed Aug. 18, 1923.



The lining of drawing is intended to denote the color blue.
Particular description of goods.—Citrous Fruits in Their Natural State.
Claims use since Apr. 25, 1923.

Ser. No. 184,687. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SIOUX CANDY COMPANY, Sioux City, Iowa. Filed Aug. 18, 1923.



The picture of the boy shown on the drawing is merely fanciful and is not the picture of any living individual. The word "Bar" is disclaimed apart from the other features of the mark.
Particular description of goods.—Candy.
Claims use since Mar. 30, 1923.

Ser. No. 184,690. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE STANLEY WORKS, New Britain, Conn. Filed Aug. 18, 1923.

816

Particular description of goods.—Hinges.
Claims use since 1887.

Ser. No. 184,691. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE STANLEY WORKS, New Britain, Conn. Filed Aug. 18, 1923.

842

Particular description of goods.—Hinges.
Claims use since 1887.

Ser. No. 184,692. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE STANLEY WORKS, New Britain, Conn. Filed Aug. 18, 1923.

5015

Particular description of goods.—Hinges.
Claims use since 1907.

Ser. No. 184,702. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES D. ZEMP, Camden, S. C. Filed Aug. 18, 1923.

NO-MO-KORN

Particular description of goods.—Liquid Corn Remedy.
Claims use since July 1, 1923.

Ser. No. 184,721. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEIGY COMPANY, INC., New York, N. Y. Filed Aug. 20, 1923.

SETACYL

Particular description of goods.—Dyestuffs.
Claims use since Aug. 15, 1923.

Ser. No. 184,729. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES HOEPFNER, doing business as Charles Hoepfner & Co., Chicago, Ill. Filed Aug. 20, 1923.

WO-KI-SA

Particular description of goods.—Germicide and Worm Remedy for Stock.
Claims use since Aug. 11, 1923.

Ser. No. 184,819. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRIEDRICH-FRIEDRICH CO., INC., Philadelphia, Pa. Filed Aug. 22, 1923.



Particular description of goods.—Face Powder.
Claims use since on or about Jan. 1, 1923.

Ser. No. 184,860. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DANIEL G. ISRAEL, doing business as Peerless Chemical Co., Secaucus, N. J. Filed Aug. 22, 1923.

COMPOXIDE
SKIN LOTION

No claim made to the exclusive use of the words "Skin Lotion" apart from the mark as shown in the drawing.
Particular description of goods.—Skin Lotion.
Claims use since about May 15, 1923.

Ser. No. 184,861. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. J. JAHN COMPANY, doing business as Herr's Laboratories, Limited, Detroit, Mich. Filed Aug. 22, 1923.

HIZ

Particular description of goods.—Face Lotion.
Claims use since Mar. 15, 1923.

Ser. No. 184,885. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES A. B. ZOOK, doing business as F. & I. Tobacco Products Company, Lancaster, Pa. Filed Aug. 22, 1923.

F&I

Particular description of goods.—Insecticides.
Claims use since Mar. 1, 1922.

Ser. No. 184,887. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES A. B. ZOOK, doing business as F. & I. Tobacco Products Company, Lancaster, Pa. Filed Aug. 22, 1923.

GOLF GREEN

Particular description of goods.—Insecticides.
Claims use since Mar. 1, 1922.

Ser. No. 184,888. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES A. B. ZOOK, doing business as F. & I. Tobacco Products Company, Lancaster, Pa. Filed Aug. 22, 1923.



No claim made to the word "Brand" apart from the mark as shown.
Particular description of goods.—Insecticides.
Claims use since May 2, 1922.

Ser. No. 184,896. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAKIN LABORATORIES, Buffalo, N. Y. Filed Aug. 23, 1923.



Particular description of goods.—Cold Creams, Vanishing Creams, Lemon Creams, and Skin and Tissue Creams.
Claims use since June 1, 1923.

Ser. No. 184,913. (CLASS 12. CONSTRUCTION MATERIALS.) KEYSTONE REFRACTORIES COMPANY, Jersey City, N. J. Filed Aug. 23, 1923.

DURA-STIX

Particular description of goods.—Furnace Mortar.
Claims use since Apr. 13, 1922.

Ser. No. 184,975. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HERMAN LEISER, doing business as Herman Leiser Co., New Orleans, La. Filed Aug. 25, 1923.

Belstop

Particular description of goods.—Electrically-Operated Audible and Visible Signals to be Attached to Automobiles and Similar Vehicles.
Claims use since Mar. 24, 1923.

Ser. No. 184,979. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARINELLO COMPANY, La Crosse, Wis. Filed Aug. 25, 1923.

GLOSSO

Particular description of goods.—Brilliantine.
Claims use since July, 1923.

Ser. No. 184,982. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PERCY E. PAGE, New York, N. Y. Filed Aug. 25, 1923.

FAIRY'S

DREAM

Particular description of goods.—Face Powders, Talcum Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, and Sachet Powders.
Claims use since Aug. 23, 1923.

Ser. No. 184,995. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE TANNIN CORPORATION, New York, N. Y. Filed Aug. 25, 1923.

LITEX

Particular description of goods.—Tanning Extracts.
Claims use since on or about June 1, 1922.

Ser. No. 184,998. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNGERER & COMPANY, INC., New York, N. Y. Filed Aug. 25, 1923.

SAPODOR

Particular description of goods.—Natural and Synthetic Products Used for Scenting Purposes.
Claims use since about July, 1911.

Ser. No. 185,004. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JESSIE CHILDERS, doing business as Hegarty & Childers, Springfield, Ill. Filed Aug. 27, 1923.

Nerola

Particular description of goods.—Hair-Restorer Compounds.
Claims use since August, 1923.

Ser. No. 185,016. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GRAHAM BROS. SOAP COMPANY, Chicago, Ill. Filed Aug. 27, 1923.

Graham's Floral Bouquet Toilet Soap

No claim is made to the use of the words "Toilet Soap" apart from the mark as shown.

Particular description of goods.—Soap.

Claims use since Aug. 4, 1923.

Ser. No. 185,041. (CLASS 12. CONSTRUCTION MATERIALS.) THE BRO-TAR MANUFACTURING COMPANY, Kansas City, Mo. Filed Aug. 27, 1923.

Bo-Bro

Particular description of goods.—Liquid Preparation Used for Concrete and Metal Tank Lining.

Claims use since Aug. 4, 1923.

Ser. No. 185,044. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE S. S. WHITE DENTAL MANUFACTURING COMPANY, Philadelphia, Pa. Filed Aug. 27, 1923.

THE GREAT WHITE WAY

"The Great White Way."

Particular description of goods.—Tooth Paste.

Claims use since July, 1923.

Ser. No. 185,063. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VAIL BROTHERS, Philadelphia, Pa. Filed Aug. 27, 1923.

LUCIA

Particular description of goods.—Perfume, Toilet Water, Sachet Powder, Talcum Powder, Face Powder, Lemon-Cream Lotion, Liquid Beautifier, Cold Cream, Toilet Cream, Hair Tonic, Almond Cream, Cocoa-Butter Massage Cream, Cocoa-Butter Cleansing Cream, Cocoa-Butter Cold Cream, Rose Cream Lotion, Skin Cream, Benzoinated Cream, Foundation Cream, and Lemon Massage Cream.

Claims use since August, 1918.

Ser. No. 185,073. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH CARROZZA, Philadelphia, Pa. Filed Aug. 28, 1923.

Tri-Color

Particular description of goods.—Hair Grower and Scalp Massage.

Claims use since Apr. 1, 1923.

Ser. No. 185,091. (CLASS 38. PRINTS AND PUBLICATIONS.) HENRY GEORGE REGAN, New York, N. Y. Filed Aug. 28, 1923.

Turf Light

Particular description of goods.—Publication Issued Weekly.

Claims use since Aug. 1, 1920.

Ser. No. 185,093. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DAVID E. SCHWAB & COMPANY INC., New York, N. Y. Filed Aug. 28, 1923.

MANTILLA

Particular description of goods.—Net and Silk Lace Piece Goods, Silk and Cotton Chantilly Piece Goods, Lace Flouncings in the Piece, and Draped Lace Veils.

Claims use since July 16, 1923.

Ser. No. 185,094. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SEACOAST CANNING CO., Eastport, Me. Filed Aug. 28, 1923.

PRIDE of the SEA

Particular description of goods.—Canned Tunny Fish.

Claims use since Aug. 15, 1923.

Ser. No. 185,120. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE GRAY TRACTOR CO., INC., Minneapolis, Minn. Filed Aug. 29, 1923.

Gray Giant

Particular description of goods.—Tractors and Road-Grading Machines.

Claims use since on or about Mar. 1, 1923.

Ser. No. 185,123. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) HANOVIA CHEMICAL & MANUFACTURING CO., Newark, N. J. Filed Aug. 29, 1923.

Luxor

Particular description of goods.—Quartz Lamps Used for Therapeutic Purposes.

Claims use since July 12, 1923.

Ser. No. 185,129. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORANA, INCORPORATED, New York, N. Y. Filed Aug. 29, 1923.

Rosenteur

Particular description of goods.—Essential Oils Suitable for the Production of Perfumes.

Claims use since Aug. 15, 1923.

Ser. No. 185,130. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORANA, INCORPORATED, New York, N. Y. Filed Aug. 29, 1923.

Jasenteur

Particular description of goods.—Essential Oils Suitable for the Production of Perfumes.

Claims use since Aug. 15, 1923.

Ser. No. 185,131. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORANA, INCORPORATED, New York, N. Y. Filed Aug. 29, 1923.

Lysenteur

Particular description of goods.—Essential Oils Suitable for the Production of Perfumes.

Claims use since Aug. 15, 1923.

Ser. No. 185,132. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORANA, INCORPORATED, New York, N. Y. Filed Aug. 29, 1923.

Narsenteur

Particular description of goods.—Essential Oils Suitable for the Production of Perfumes.

Claims use since Aug. 15, 1923.

Ser. No. 185,133. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORANA, INCORPORATED, New York, N. Y. Filed Aug. 29, 1923.

Viosenteur

Particular description of goods.—Essential Oils Suitable for the Production of Perfumes.

Claims use since Aug. 15, 1923.

Ser. No. 185,135. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) NATIONAL RENOVATING & SUPPLY CO., Kansas City, Mo. Filed Aug. 29, 1923.

NARESCO PROCESS

No claim is made to the word "Process" apart from the mark as shown.

Particular description of goods.—Liquid Paint and Varnish Remover.

Claims use since July 14, 1923.

Ser. No. 185,141. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ORIENTAL SILK PRINTING COMPANY, Haledon, N. J., and New York, N. Y. Filed Aug. 29, 1923.

PE-LING

Particular description of goods.—Textile Fabrics—Namely, Silks, Cottons, Woolens; Artificial-Silk, Silk, and Cotton Mixtures; Silk and Woolen Mixtures, Both Woven and Knitted, in the Piece; Also Silk Ribbons.

Claims use since Aug. 14, 1923.

Ser. No. 185,165. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VAN CAMP SEA FOOD COMPANY, Los Angeles, Calif. Filed Aug. 29, 1923.

DISPLAY

Particular description of goods.—Canned Fish, Canned Fruits, Canned Vegetables, and Canned Olives.

Claims use since Aug. 1, 1923.

Ser. No. 185,168. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. G. WOOL PACKING COMPANY, San Jose, Calif. Filed Aug. 29, 1923.

Betty's Best

Applicant disclaims the right to the exclusive use of the word "Best" apart from the mark as shown on the drawing.

Particular description of goods.—Canned Fruits.

Claims use since May 15, 1923.

Ser. No. 185,169. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) LEE TIRE & RUBBER CO., Conshohocken, Pa. Filed July 11, 1923.

BLIMP

Particular description of goods.—Pneumatic Tires.

Claims use since June 22, 1923.

Ser. No. 185,192. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) G. L. TAYLOR, doing business as Bluford Specialty Co., Bluford, Ill. Filed Aug. 30, 1923.

DOCK'S

Particular description of goods.—Dental Cream, Face Powder, Hand Softener, Rouge, Mentholated Ice, Perfume.

Claims use since Jan. 1, 1922.

Ser. No. 185,198. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BENZ TOILET PRODUCTS, INC., Syracuse, N. Y. Filed Aug. 31, 1923.

V VALDI

Particular description of goods.—Talcum Powders, Face Powders, Face Creams, Compacts, Lip Stick, Rouge, Toilet Waters, and Perfumes.

Claims use since May 31, 1923.

Ser. No. 185,209. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) DUO-ART BELLEEK CO., Trenton, N. J., and Newtown Borough, Pa. Filed Aug. 31, 1923.

DUO-ART REGISTERED U.S.PAT.OFF. BELLEEK

Applicant disclaims any right to exclusive appropriation of the right to use the words "Registered U. S. Pat. Off." and of the term "Belleek" apart from the mark shown in the drawing.

Particular description of goods.—Pottery Ware.

Claims use since Aug. 1, 1923.

Ser. No. 185,218. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) FULLER-MORRISSON COMPANY, Chicago, Ill. Filed Aug. 31, 1923.

Serv-Ette

The mark consists of the arbitrary compound word "Serv-Ette."

Particular description of goods.—Sanitary Elastic Woven Belts and Sanitary Cotton Napkins for Women.

Claims use since Mar. 1, 1923.

Ser. No. 185,230. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) JOHN R. REILLY, Los Angeles, Calif. Filed Aug. 31, 1923.

Ryko

Particular description of goods.—Inner Tubes and Rubber-Tire Covers.

Claims use since Aug. 10, 1923.

Ser. No. 185,282. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) N. AUTH PROVISION COMPANY, Washington, D. C. Filed Sept. 4, 1923.

Auth's

The mark consists of a red circle having a dark-blue outline with the word "Auth's" in white letters on said red circle as a background.

Particular description of goods.—Bovine, Swinish, and Mutton Meat, and Bovine, Swinish, and Mutton Meat Products, Hams, Sausages, Scrapple, Meat Loaf, Sausage Meat, Lard, and Bacon.

Claims use since February, 1902.

Ser. No. 185,307. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NAMCO PRODUCTS CORPORATION, New York, N. Y. Filed Sept. 4, 1923.

CRIMSONETTE

Particular description of goods.—Hair Nets.

Claims use since Aug. 24, 1923.

Ser. No. 185,310. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) PINE RIDGE COAL COMPANY, Detroit, Mich. Filed Sept. 4, 1923.

POCOTAN

Particular description of goods.—Semibituminous Coal.

Claims use since February, 1923.

Ser. No. 185,375. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) NECOL INDUSTRIAL COLLODIONS, LIMITED, London, England. Filed Sept. 6, 1923.

NECOL

Particular description of goods.—Plastic Preparation Composed Chiefly of Cellulose and Sold in Containers for Use as a Substitute for Wood.

Claims use since Jan. 1, 1921.

Ser. No. 185,449. (CLASS 39. CLOTHING.) CLIMAX HOSIERY MILLS, Athens, Ga. Filed Sept. 7, 1923.

"TRU-FAB"

Particular description of goods.—Hosiery.

Claims use since July 25, 1923.

Ser. No. 185,455. (CLASS 39. CLOTHING.) CYRUS P. GORDON, New York, N. Y. Filed Sept. 7, 1923.

GO BOY



Particular description of goods.—Boys' Shirts and Boys' Blouses.

Claims use since Sept. 16, 1922.

Ser. No. 185,456. (CLASS 39. CLOTHING.) CYRUS P. GORDON, New York, N. Y. Filed Sept. 7, 1923.

LITTLE PAL



Particular description of goods.—Boys' Shirts and Boys' Blouses.

Claims use since Sept. 16, 1922.

Ser. No. 185,458. (CLASS 39. CLOTHING.) HANES HOSIERY MILLS COMPANY, Winston-Salem, N. C. Filed Sept. 7, 1923.

Cherry Blossom



Particular description of goods.—Hosiery.
Claims use since Mar. 10, 1922.

Ser. No. 185,492. (CLASS 39. CLOTHING.) NEWMAN & Co., New York, N. Y. Filed Sept. 7, 1923.

THE CRUCIBLE SOCK



No claim made for the word "Sock" apart from the mark as shown in the drawing.
Particular description of goods.—Hosiery for Men.
Claims use since July 1, 1922.

Ser. No. 185,498. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHREIBER PRODUCTS CORPORATION, Buffalo, N. Y. Filed Sept. 7, 1923.

BAKOLOSE

Particular description of goods.—Malt Sugar for Baking Purposes.
Claims use since Aug. 22, 1923.

Ser. No. 185,515. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BENJAMIN S. FREEDMAN COMPANY, Scranton, Pa. Filed Sept. 8, 1923.

EVRIWOMAN'S

Particular description of goods.—Hair Nets.
Claims use since Sept. 15, 1922.

Ser. No. 185,535. (CLASS 39. CLOTHING.) PRIDE UNDERWEAR CO. INC., New York, N. Y. Filed Sept. 8, 1923.

PRIDE

Particular description of goods.—Men's Textile-Fabric Underwear in One and Two Piece Garments.
Claims use since November, 1921.

Ser. No. 185,550. (CLASS 39. CLOTHING.) BEST & CO. INC., New York, N. Y. Filed Sept. 8, 1923.

Glenconner

Particular description of goods.—Misses' and Girls' Furnishings, Undergarments, and Clothing—Namely, Dresses, Corsets, Tailored Suits, Walking Suits, Sport Suits, Golf Suits, Riding Suits, Negligees, Skirts, Nightgowns, Petticoats, Neckwear, Gloves, Bodices, Chemises, Drawers, Combinations, Bath Robes, Shirt Waists, Bathing Suits, Dressing Gowns, Sweaters, Mufflers, Hosiery, Raincoats, Sport Coats, Hats, Caps, and Coats Made Out of Textile Material; and Dresses, Corsets, Tailored Suits, Walking Suits, Sport Suits, Negligees, Golf Suits, Riding Suits, Skirts, Nightgowns, Petticoats, Neckwear, Gloves, Bodices, Chemises, Drawers, Combinations, Bath Robes, Shirt Waists, Bathing Suits, Dressing Gowns, Sweaters, Mufflers, Hosiery, Hats, and Caps Made Out of Knitted Material; and for Misses' and Girls' Shoes, Boots, Slippers, Leggings, Putties Made Out of Leather, Rubber, Canvas, Buckskin, or Linen or Composition of Similar Materials.
Claims use since Aug. 14, 1923.

Ser. No. 185,581. (CLASS 39. CLOTHING.) HARRIS & BARNETT, New York, N. Y. Filed Sept. 10, 1923.

LOOMS PRIDE

Particular description of goods.—Ladies' Muslin Underwear.
Claims use since June 15, 1923.

Ser. No. 185,624. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) SECURITY RUBBER AND BELTING COMPANY, Chicago, Ill. Filed Sept. 10, 1923.

SERUBCO

SERUBCO

Particular description of goods.—Belting Composed of Fabric and Rubber.
Claims use since June 20, 1923.

Ser. No. 185,648. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) WM. & CHAS. BECK, INC., Lawrence, Mass. Filed Sept. 11, 1923.

ALENCO

Particular description of goods.—Linen Fire Hose.
Claims use since 1898.

Ser. No. 185,649. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BENNETT GLASS & PAINT COMPANY, Salt Lake City, Utah. Filed Sept. 11, 1923.

Bennett's



No claim made for the words "For the Adornment and Protection of All Surfaces" apart from the mark as shown on the drawing.
Particular description of goods.—Dry, Paste, and Ready-Mixed Paints, Varnishes, and Paint Enamels, Including Paint, Varnish, and Enamel Specialties Products Manufactured to Meet Peculiar Conditions.
Claims use since June 1, 1923.

Ser. No. 185,658. (CLASS 39. CLOTHING.) HATHEWAY & REYNOLDS, Oriskany Falls and New York, N. Y. Filed Sept. 11, 1923.

TROPICOAT

Particular description of goods.—Sweaters, Knit Coats, and Bathing Suits.
Claims use since October, 1921.

Ser. No. 185,660. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LAKESIDE FORGE COMPANY, Erie, Pa. Filed Sept. 11, 1923.

LAKESIDE

Particular description of goods.—Tools, Particularly Pliers and Wrenches.
Claims use since June 30, 1911.

Ser. No. 185,661. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OSCAR J. LE BARON, doing business as The Le Baron Co., Healdsburg, Calif. Filed Sept. 11, 1923.

OLIVETO

Particular description of goods.—Fresh Grapes.
Claims use since July 11, 1923.

Ser. No. 185,665. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MU-RAD LABORATORIES, INC., Asbury Park, N. J. Filed Sept. 11, 1923.

MU-RAD

Particular description of goods.—Radiotelephone Receiving Loops, Radiofrequency Transformers, Audiofrequency Transformers, Radiotelephone Broadcasting Receiving Sets, and Loud Speakers.
Claims use since Nov. 20, 1921.

Ser. No. 185,710. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JEFFERSON SILK COMPANY, INC., New York, N. Y. Filed Sept. 12, 1923.

AN UNUSUAL FABRIC RIBACADE PRODUCED BY THE JEFFERSON SILK CO. 257 FOURTH AVE. NEW YORK

Applicant disclaims any exclusive right to use the words "An Unusual Fabric Produced by" and "257 Fourth Ave., N. Y." apart from the mark shown in the drawing.
Particular description of goods.—Piece Goods Made of Silk and Artificial Silk.
Claims use since on or about Aug. 1, 1923.

Ser. No. 185,723. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MELL RYERSON, doing business as South Side Cafe, Marengo, Iowa. Filed Sept. 12, 1923.

NEW-DROPS

Particular description of goods.—Ice-Cream Confection.
Claims use since about Sept. 1, 1922.

Ser. No. 185,809. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) THE AMERICAN LAUNDRY MACHINERY COMPANY, Cincinnati, Ohio. Filed Sept. 15, 1923.

PRIM-PRESS

Particular description of goods.—Clothes-Pressing Machines.
Claims use since June 19, 1922.

Ser. No. 185,835. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NATIONAL MAYONNAISE MACHINE COMPANY, Brooklyn, N. Y. Filed Sept. 15, 1923.

MAYONNAISOR

Particular description of goods.—Mayonnaise-Making Machines.
Claims use since January, 1923.

Ser. No. 185,911. (CLASS 2. RECEPTACLES.) THE ARDEN PRODUCTS CORPORATION, Chicago, Ill. Filed Sept. 19, 1923.

CED-O-BAG

No claim is made to the word "Bag" forming part of the trade-mark when used apart from the rest of the mark shown in the drawing.
Particular description of goods.—Garment Bag.
Claims use since June 1, 1923.

Ser. No. 185,913. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) D. BALLANTYNE, BROTHERS & CO., LIMITED, Peebles, Scotland. Filed Sept. 19, 1923.

BELLENDEN

Particular description of goods.—Cloths and Stuffs of Wool, Worsted, and Hair.
Claims use since July 4, 1923.

Ser. No. 185,915. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) C. BRANDES, INC., New York, N. Y. Filed Sept. 19, 1923.

Table-Talker

Particular description of goods.—Loud-Speaking Telephones.
Claims use since Sept. 12, 1923.

Ser. No. 185,929. (CLASS 33. GLASSWARE.) IMPERIAL GLASS COMPANY, Bellaire, Ohio. Filed Sept. 19, 1923.

FREE HAND

Particular description of goods.—Ornamental and Table Glassware.
Claims use since July 23, 1923.

Ser. No. 185,944. (CLASS 39. CLOTHING.) A. V. VICTORIUS & CO., New York, N. Y. Filed Sept. 19, 1923.

WHIRLWIND

Particular description of goods.—Hosiery.
Claims use since Aug. 1, 1923.

Ser. No. 185,948. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BANNER SILK KNITTING MILLS, INC., New York, N. Y. Filed Sept. 20, 1923.

Krepe de Leen

Particular description of goods.—Knitted Silk Fabrics—viz, Silk Knitted Cloth in the Bolt.
Claims use since Sept. 10, 1923.

Ser. No. 186,018. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LOS ANGELES FOUNDRY COMPANY, Los Angeles, Calif. Filed Sept. 21, 1923.

Electro Cast Products

The words "Electro Cast Products" are disclaimed apart from the mark as shown by the drawing.
Particular description of goods.—Steel and Iron Castings.
Claims use since July 15, 1922.

Ser. No. 186,105. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CONSOLIDATED CO.—COAL DIVISION, INC., Chicago, Ill. Filed Sept. 24, 1923.

GLOFLAME

Particular description of goods.—Coal.
Claims use since Aug. 22, 1923.

Ser. No. 186,178. (CLASS 2. RECEPTACLES.) CARBIDE & CARBON CHEMICALS CORPORATION, New York, N. Y. Filed Sept. 25, 1923.



The mark consists of a blue band encircling the body of the container which is otherwise of gray color, the blue band being usually nearer one end of the container. No claim is made to the exclusive right to the use of the representation of the container.
Particular description of goods.—Portable Containers for Transporting and Storing Compressed Gas for Heating, Lighting, and Power Purposes.
Claims use since Aug. 7, 1923.

Ser. No. 186,179. (CLASS 2. RECEPTACLES.) H. P. CHANDLEE SONS CO., Baltimore, Md. Filed Sept. 25, 1923.

ORDINANCE

Particular description of goods.—Ash Cans, Garbage Cans, Oil Cans, Trash Burners, Ash Sifters, Water Coolers, Bread Boxes, Cake Boxes, Water Pails, Milk Pails, and Milk Cans.
Claims use since Aug. 31, 1923.

Ser. No. 186,241. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) LEWIS MANUFACTURING COMPANY, Walpole, Mass. Filed Sept. 26, 1923.

SANIPADS

No claim is made to the word "Pads" except in combination with the rest of the trade-mark. The mark consists of the word "Sanipads."
Particular description of goods.—Sanitary Napkins.
Claims use since Aug. 30, 1923.

Ser. No. 186,246. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WALTER G. NOACK, Stockton, Calif. Filed Sept. 26, 1923.

TROJAN

Particular description of goods.—Water-Pressure Systems, Pumps, and Engines, and Parts Thereof.
Claims use since Jan. 1, 1923.

Ser. No. 186,276. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) INTERNATIONAL RUBBER CO. OF AMERICA, Anderson, Ind. Filed Sept. 27, 1923.

Dictator

Particular description of goods.—Vehicle Tires, Including Outer Casings and Inner Tubes.
Claims use since April, 1923.

Ser. No. 186,303. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. TRAUTMAN & COMPANY, Cincinnati, Ohio. Filed Sept. 27, 1923.

QUEEN CITY

Particular description of goods.—Leather.
Claims use since prior to May, 1889.

Ser. No. 186,318. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ECONOMY FUSE AND MANUFACTURING COMPANY, Chicago, Ill. Filed Sept. 28, 1923.

ECO

Particular description of goods.—Electrical Fuses.
Claims use since July 31, 1923.

Ser. No. 186,456. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE BARRETT COMPANY, New York, N. Y. Filed Oct. 2, 1923.

PARAMAR

Particular description of goods.—Bituminous Material for Compounding Rubber.
Claims use since about June 8, 1922.

Ser. No. 186,457. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE BARRETT COMPANY, New York, N. Y. Filed Oct. 2, 1923.

CARBONEX

Particular description of goods.—Bituminous Material for Compounding Rubber.
Claims use since about May 8, 1922.

Ser. No. 186,458. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE BARRETT COMPANY, New York, N. Y. Filed Oct. 2, 1923.

ELASTEX

Particular description of goods.—Bituminous Material for Compounding Rubber.
Claims use since about June 1, 1922.

Ser. No. 186,459. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE BARRETT COMPANY, New York, N. Y. Filed Oct. 2, 1923.

B.R.T.

Particular description of goods.—Bituminous Material for Compounding Rubber.
Claims use since about June 1, 1921.

Ser. No. 186,472. (CLASS 37. PAPER AND STATIONERY.) CHAS. GREEN COMPANY, INC., New York, N. Y. Filed Oct. 2, 1923.



No claim made to the word "Cover."
Particular description of goods.—Paper Covers.
Claims use since July, 1923.

Ser. No. 186,475. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) BERNARD J. HOOS, Baltimore, Md. Filed Oct. 2, 1923.

PROTECTO

Particular description of goods.—Ash Trays.
Claims use since May, 1923.

Ser. No. 186,551. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) FREDERICK GOETZE, New Brunswick, N. J. Filed Oct. 4, 1923.



Particular description of goods.—Gaskets and Metallic Packing.
Claims use since Sept. 12, 1923.

Ser. No. 186,562. (CLASS 39. CLOTHING.) MCCALLUM HOSIERY CO., Northampton, Mass. Filed Oct. 4, 1923.

Fluf Fluf

Particular description of goods.—Hosiery.
Claims use since Sept. 13, 1923.

Ser. No. 186,582. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BENJAMIN ELECTRIC MANUFACTURING COMPANY, Chicago, Ill. Filed Oct. 5, 1923.

Duolet

Particular description of goods.—Electrical Plug Clusters Having Two or More Outlets.
Claims use since about Aug. 22, 1923.

Ser. No. 186,614. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE REPUBLIC RUBBER COMPANY, Youngstown, Ohio. Filed Oct. 5, 1923.

HYDRO

Particular description of goods.—Fire Hose and Garden Hose.
Claims use since middle of year 1916.

Ser. No. 186,735. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WOOD NEWSPAPER MACHINERY CORPORATION, New York, N. Y. Filed Oct. 8, 1923.

PONY

Particular description of goods.—Stereotype Casting, Cooling, and Finishing Machines.
Claims use since 1913.

Ser. No. 186,736. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WOOD NEWSPAPER MACHINERY CORPORATION, New York, N. Y. Filed Oct. 8, 1923.

JUNIOR

Particular description of goods.—Stereotype Casting, Cooling, and Finishing Machines.
Claims use since 1907.

Ser. No. 186,763. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TUBULAR WOVEN FABRIC COMPANY, Pawtucket, R. I. Filed Oct. 9, 1923.

DURABILT

Particular description of goods.—Flexible Electrical Conduits and Insulated Electrical Conductors.
Claims use since on or about Sept. 5, 1923.

Ser. No. 186,810. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MILTON D. SWARTZ, doing business as Baltimore Water Paint Company, Baltimore, Md. Filed Oct. 10, 1923.

SNOWBALL

Particular description of goods.—Paints—Namely, Cold-Water Paints, Calcimines, Water Colors, Wall Tints, Wall Paints, and Wall Sizes.
Claims use since Feb. 15, 1920.

Ser. No. 186,811. (CLASS 12. CONSTRUCTION MATERIALS.) TEXAS GULF SULPHUR COMPANY, New York, N. Y. Filed Oct. 10, 1923.

LAVASUL

Particular description of goods.—Fusible Sulphur Composition Particularly Adapted for the Construction of Tanks and Other Containers to Hold Corrosive Acid or Alkaline Containers.
Claims use since Feb. 16, 1923.

Ser. No. 186,856. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RADIO CONDENSER CO., Camden, N. J. Filed Oct. 11, 1923.

R. C. Co.

Particular description of goods.—Electrical Condensers.
Claims use since on or about Feb. 1, 1923.

Ser. No. 186,865. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BENJAMIN ELECTRIC MANUFACTURING COMPANY, Chicago, Ill. Filed Oct. 12, 1923.

LOCATAP

Particular description of goods.—Plug Sockets Having Side Outlets to Receive Plug-In Devices.
Claims use since about May 28, 1923.

Ser. No. 186,875. (CLASS 37. PAPER AND STATIONERY.) THE DIEM & WING PAPER CO., Cincinnati, Ohio. Filed Oct. 12, 1923.

ALABASTER

Particular description of goods.—Wrapping Paper.
Claims use since January, 1912.

Ser. No. 186,877. (CLASS 37. PAPER AND STATIONERY.) THE DIEM & WING PAPER CO., Cincinnati, Ohio. Filed Oct. 12, 1923.

HIPPO-HIDE

Particular description of goods.—Wrapping Paper.
Claims use since January, 1912.

Ser. No. 186,878. (CLASS 37. PAPER AND STATIONERY.) THE DIEM & WING PAPER CO., Cincinnati, Ohio. Filed Oct. 12, 1923.

BLACK DIAMOND

Particular description of goods.—Blasting Paper.
Claims use since January, 1912.

Ser. No. 186,879. (CLASS 37. PAPER AND STATIONERY.) THE DIEM & WING PAPER CO., Cincinnati, Ohio. Filed Oct. 12, 1923.

KANAWHA

Particular description of goods.—Blasting Paper.
Claims use since January, 1912.

Ser. No. 186,883. (CLASS 37. PAPER AND STATIONERY.) THE DIEM & WING PAPER CO., Cincinnati, Ohio. Filed Oct. 12, 1923.

SAVE-MORE

Particular description of goods.—Wrapping Paper.
Claims use since January, 1912.

Ser. No. 186,885. (CLASS 37. PAPER AND STATIONERY.) THE DIEM & WING PAPER CO., Cincinnati, Ohio. Filed Oct. 12, 1923.

SPEEDWAY

Particular description of goods.—Bond Paper.
Claims use since January, 1912.

Ser. No. 186,914. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE KILGORE MFG. CO., Westerville, Ohio. Filed Oct. 12, 1923.

K

Particular description of goods.—Pistols.
Claims use since July 1, 1912.

Ser. No. 186,946. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CONSOLIDATED ELECTRIC COMPANY, Chicago, Ill. Filed Oct. 13, 1923.

Cool-Spot

Particular description of goods.—Electric Fans.
Claims use since January, 1922.

Ser. No. 186,974. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ALLEN-BRADLEY COMPANY, Milwaukee, Wis. Filed Oct. 15, 1923.

Bradleyleak

Particular description of goods.—Electrical Resistance for Wireless Apparatus.
Claims use since Sept. 1, 1923.

Ser. No. 186,999. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE HUDSON MANUFACTURING COMPANY, Minneapolis, Minn. Filed Oct. 15, 1923.

MIDGET

Particular description of goods.—Sprayers and Parts Thereof.
Claims use since Jan. 1, 1913.

Ser. No. 187,001. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE HUDSON MANUFACTURING COMPANY, Minneapolis, Minn. Filed Oct. 15, 1923.

NODOC

Particular description of goods.—Sprayers and Parts Thereof.
Claims use since Feb. 1, 1913.

Ser. No. 187,003. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE HUDSON MANUFACTURING COMPANY, Minneapolis, Minn. Filed Oct. 15, 1923.

RAINBOW

Particular description of goods.—Sprayers and Parts Thereof.
Claims use since on or about July, 1, 1913.

Ser. No. 187,083. CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) S. M. BIXBY & CO. INC., Brooklyn and Buffalo, N. Y. Filed Oct. 17, 1923.

BIXBY'S

Particular description of goods.—Shoe Polish and Dressing in Paste, Liquid, Cake, and Powdered Form.
Claims use since about 1886.

Ser. No. 187,109. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LANCO COUPLER COMPANY, Lancaster, Pa. Filed Oct. 17, 1923.

LANCO

Particular description of goods.—Variocouplers.
Claims use since Oct. 15, 1923.

Ser. No. 187,261. (CLASS 33. GLASSWARE.) MCKEE GLASS COMPANY, Jeannette, Pa. Filed Oct. 20, 1923.

BETTY JANE

Particular description of goods.—Sets of Glass Cooking Ware for Children.
Claims use since about Aug. 1, 1923.

Ser. No. 187,295. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SAMUEL CABOT, INC., Boston, Mass. Filed Oct. 22, 1923.

DOUBLE-WHITE

No claim is made to the word "White" except in association with the word "Double."
Particular description of goods.—White Covering Composition Applied Like a Paint.
Claims use since about November, 1920.

Ser. No. 187,311. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HENRY-BROWN COMPANY, INC., Glendale, Calif. Filed Oct. 22, 1923.

CLARWINE

Particular description of goods.—Nonalcoholic, Nonintoxicating, Noncereal, Maltless Beverages and Sirup Used in Preparation of Same.
Claims use since June 29, 1923.

Ser. No. 187,319. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) H. KIRSCH & COMPANY, Brooklyn, N. Y. Filed Oct. 22, 1923.



Particular description of goods.—Ginger Ale, Sarsaparilla, Cream Soda, Celery, Orange, Grape, and Similar Beverages, All Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks, and Sirup for Making the Same.
Claims use since Dec. 1, 1909.

Ser. No. 187,346. (CLASS 33. GLASSWARE.) PRESSED PRISM-PLATE GLASS COMPANY, Morgantown, W. Va. Filed Oct. 22, 1923.

IMPERIAL

P P

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Particular description of goods.—Glass.
Claims use since about May 15, 1904.

Ser. No. 187,481. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) OSAKEYHTIO SAVO, LTD., Kuopio, Finland. Filed Oct. 25, 1923.



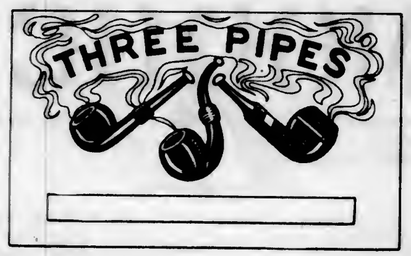
Particular description of goods.—Matches.
Claims use since July 17, 1923.

Ser. No. 187,482. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) OSAKEYHTIO SAVO, LTD., Kuopio, Finland. Filed Oct. 25, 1923.



Particular description of goods.—Matches.
Claims use since July 17, 1923.

Ser. No. 187,483. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) OSAKEYHTIO SAVO, LTD., Kuopio, Finland. Filed Oct. 25, 1923.



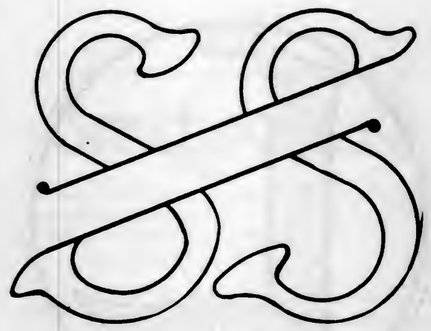
Particular description of goods.—Matches.
Claims use since June 5, 1923.

Ser. No. 187,499. (CLASS 33. GLASSWARE.) THE X-CEL-ALL CO., LTD., Chicago, Ill. Filed Oct. 25, 1923.



Particular description of goods.—Electric-Light Globes.
Claims use since Jan. 1, 1923.

Ser. No. 187,542. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SAM SEELIG CO., Los Angeles, Calif. Filed Oct. 26, 1923.



Particular description of goods.—Grape Juice.
Claims use since Sept. 25, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

DECEMBER 4, 1923.

176,825. CIGARS. MARIA CABRELLI AND BALDASSARE MIRABILE, New York, N. Y.
Filed June 21, 1923. Serial No. 182,293. PUBLISHED SEPTEMBER 25, 1923.

176,826. CIGARS. SALVADOR RODRIGUEZ, New York, N. Y.
Filed June 20, 1923. Serial No. 182,265. PUBLISHED SEPTEMBER 25, 1923.

176,827. CIGARS. SALVADOR RODRIGUEZ, New York, N. Y.
Filed June 20, 1923. Serial No. 182,264. PUBLISHED SEPTEMBER 25, 1923.

176,828. CIGARS. SALVADOR RODRIGUEZ, New York, N. Y.
Filed June 20, 1923. Serial No. 182,262. PUBLISHED SEPTEMBER 25, 1923.

176,829. LEATHER SHOES. MELVILLE SHOE CORPORATION, New York, N. Y.
Filed June 14, 1923. Serial No. 182,000. PUBLISHED SEPTEMBER 18, 1923.

176,830. HATS FOR MEN. M. S. LEVY & SONS INC., Baltimore, Md.
Filed June 2, 1923. Serial No. 181,490. PUBLISHED SEPTEMBER 11, 1923.

176,831. FELT, CANVAS, SILK, AND LEATHER SLIPPERS. LIND SHOE AND SLIPPER COMPANY, Worcester, Mass.
Filed June 7, 1923. Serial No. 181,642. PUBLISHED SEPTEMBER 18, 1923.

176,832. LADIES', MISSES', AND CHILDREN'S HAT LININGS. JOSEPH H. RUBINOW, doing business as J. H. Rubinow, New York, N. Y.
Filed June 8, 1923. Serial No. 181,699. PUBLISHED SEPTEMBER 11, 1923.

176,833. BRASSIÈRES AND CORSETS. JAMES MONTROSE KINNEY, Yonkers, N. Y.
Filed June 12, 1923. Serial No. 181,898. PUBLISHED SEPTEMBER 11, 1923.

176,834. HATS FOR MEN, WOMEN, AND CHILDREN. DUNLAP & Co., New York, N. Y.
Filed May 15, 1923. Serial No. 180,657. PUBLISHED SEPTEMBER 11, 1923.

176,835. RUBBER HEELS AND ARCH CUSHIONS. FLEXO MANUFACTURING COMPANY, Philadelphia, Pa.
Filed May 23, 1923. Serial No. 181,018. PUBLISHED SEPTEMBER 11, 1923.

176,836. WHEAT FLOUR. LAWRENCEBURG ROLLER MILLS Co., Lawrenceburg, Ind.
Filed April 7, 1923. Serial No. 178,744. PUBLISHED SEPTEMBER 11, 1923.

176,837. WHEAT FLOUR, HOMINY FEED, AND GRITS. CHAS. BROEKER & Co., Owensboro, Ky.
Filed April 16, 1923. Serial No. 179,179. PUBLISHED SEPTEMBER 11, 1923.

176,838. CAKES. LOOSE-WILES BISCUIT COMPANY, Long Island City, N. Y.
Filed April 23, 1923. Serial No. 179,542. PUBLISHED SEPTEMBER 11, 1923.

176,839. CERTAIN NAMED FOODS. JOHN HOFFMANN & SONS Co., Milwaukee, Wis.
Filed March 29, 1923. Serial No. 178,249. PUBLISHED AUGUST 21, 1923.

176,840. EGGS. JOHN V. KISKER & Co., Cincinnati, Ohio.
Filed March 29, 1923. Serial No. 178,258. PUBLISHED AUGUST 21, 1923.

176,841. BREAD. THE BIXLER BAKING COMPANY, Youngstown, Ohio.
Filed February 26, 1923. Serial No. 176,597. PUBLISHED SEPTEMBER 11, 1923.

176,842. DRIED FRUIT, CANNED VEGETABLES, PEANUT BUTTER, CHEESE, AND ROLLED OATS. TWOHY-SMITH COMPANY, Superior, Wis.
Filed March 1, 1923. Serial No. 176,809. PUBLISHED SEPTEMBER 4, 1923.

176,843. BUTTER. GALETON DAIRY PRODUCTS COMPANY, Galeton, Pa.
Filed March 22, 1923. Serial No. 177,837. PUBLISHED AUGUST 21, 1923.

176,844. PREPARED STOCK FEED. ARCADY FARMS MILLING COMPANY, Chicago, Ill.
Filed March 29, 1923. Serial No. 178,205. PUBLISHED AUGUST 21, 1923.

176,845. COAL. MONTEVALLO MINING COMPANY, Birmingham, Ala.
Filed June 22, 1923. Serial No. 182,355. PUBLISHED SEPTEMBER 18, 1923.

176,846. SELF-RISING WHEAT FLOUR. MODEL MILL COMPANY, Jackson, Tenn.
Filed February 9, 1923. Serial No. 175,803. PUBLISHED AUGUST 21, 1923.

176,847. WHEAT FLOUR. THE ASTORIA FLOURING MILLS COMPANY, Portland, Oreg.
Filed February 26, 1923. Serial No. 176,591. PUBLISHED SEPTEMBER 11, 1923.

176,848. COTTON PIECE GOODS. W. HARRIS THURSTON & Co. INC., New York, N. Y.
Filed July 18, 1923. Serial No. 183,423. PUBLISHED SEPTEMBER 25, 1923.

176,849. BUTTER. THE WESTERN OHIO CREAMERY Co., Greenville, Ohio.
Filed January 6, 1923. Serial No. 174,272. PUBLISHED SEPTEMBER 11, 1923.

176,850. ROLLED OATS. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed January 18, 1923. Serial No. 174,751. PUBLISHED SEPTEMBER 4, 1923.

176,851. WHEAT FLOUR, ROLLED OATS, CORN MEAL, AND FARINACEOUS FEEDS. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed January 22, 1923. Serial No. 174,919. PUBLISHED SEPTEMBER 11, 1923.

176,852. BREAD, ROLLS, BISCUITS, CAKES, AND CEREAL BREAKFAST FOODS. WARD BAKING COMPANY, New York, N. Y.
Filed January 31, 1923. Serial No. 175,374. PUBLISHED SEPTEMBER 4, 1923.

176,853. FOOD PRODUCT—A FRANKFURTER INCLOSED IN A ROLL OR BISCUIT AND POPULARLY KNOWN AS "HOT DOG." FOLEY FOOD PRODUCT COMPANY, Washington, D. C.
Filed February 3, 1923. Serial No. 175,480. PUBLISHED JULY 31, 1923.

176,854. BOOTS AND SHOES MADE OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF SUCH MATERIALS. RUBBERHIDE COMPANY, Boston, Mass.
Filed October 20, 1922. Serial No. 170,992. PUBLISHED SEPTEMBER 18, 1923.

176,855. HOG FOOD. THE DIXON CEREAL AND FEED COMPANY, Dixon, Ill.
Filed November 8, 1922. Serial No. 171,730. PUBLISHED SEPTEMBER 11, 1923.

176,856. WHEAT FLOUR, GRAHAM FLOUR, CORN MEAL, AND WHEAT FEED. DIXIE MILLS, Clarksville, Tenn.
Filed December 23, 1922. Serial No. 173,741. PUBLISHED SEPTEMBER 11, 1923.

176,857. CERTAIN FOODS AND INGREDIENTS OF FOODS. UNIVERSAL WHOLESALE GROCERY CO., Chicago, Ill.
Filed December 30, 1922. Serial No. 174,042. PUBLISHED AUGUST 28, 1923.

176,858. CANNED FRUITS, CANNED VEGETABLES, CONDIMENTS, RICE, SPICE, AND FLAVORING EXTRACTS FOR FOOD. HOLSTEIN HARVEY, INC., Wilmington, Del.
Filed July 1, 1922. Serial No. 166,369. PUBLISHED SEPTEMBER 11, 1923.

176,859. BIRDSEED, FLAVORING EXTRACT FOR FOOD PURPOSES, FISH FOOD, OLIVE OIL, TUMERIC, ROCK CANDY, HOREHOUND DROPS, AND COTTON SEED OIL AND SUNFLOWER SEED. THE OWL DRUG COMPANY, San Francisco, Calif.
Filed July 1, 1922. Serial No. 166,400. PUBLISHED SEPTEMBER 11, 1923.

176,860. BUTTER AND CHEESE. THE NEW ZEALAND CO-OPERATIVE DAIRY COMPANY LIMITED, Hamilton, New Zealand.
Filed August 16, 1922. Serial No. 168,332. PUBLISHED SEPTEMBER 4, 1923.

176,861. BOTTLED MILK. THE KOKOMO GROCERS DAIRY PRODUCTS COMPANY, Kokomo, Ind.
Filed August 21, 1922. Serial No. 168,533. PUBLISHED SEPTEMBER 11, 1923.

176,862. EGGS. MEYNELL E. FOWLER, Chicago, Ill.
Filed September 1, 1922. Serial No. 168,963. PUBLISHED SEPTEMBER 11, 1923.

176,863. SOFT DRINK. JOHN D. FLETCHER, Louisville, Ky., assignor to Ryco Extract Company, Louisville, Ky., a Corporation of Kentucky.
Filed December 8, 1920. Serial No. 140,791. PUBLISHED AUGUST 21, 1923.

176,864. GINGER BREAD AND GINGER COOKIES. MARGERY A. BANNING, Evanston, Ill.
Filed January 30, 1922. Serial No. 158,592. PUBLISHED SEPTEMBER 4, 1923.

176,865. BUTTER. THOMAS F. GALLAGHER, doing business as Gallagher Bros., Chicago, Ill.
Filed February 17, 1922. Serial No. 159,466. PUBLISHED SEPTEMBER 11, 1923.

176,866. BUTTER. S. T. EDEL'S SONS, Baltimore, Md.
Filed March 29, 1922. Serial No. 161,415. PUBLISHED SEPTEMBER 11, 1923.

176,867. APPARATUS FOR BEATING EGGS AND LIKE LIQUIDS. WHIPPO MANUFACTURING COMPANY, Quincy, Mass.
Filed June 14, 1923. Serial No. 182,028. PUBLISHED SEPTEMBER 25, 1923.

176,868. EYESHADES OR VISORS FOR USE IN CONNECTION WITH SPECTACLES AND EYEGLASSES. THE H. & A. MANUFACTURING COMPANY, Cleveland, Ohio.
Filed June 15, 1923. Serial No. 182,052. PUBLISHED SEPTEMBER 25, 1923.

176,869. CORSETS. F. P. HOY, INC., New York, N. Y.
Filed June 21, 1923. Serial No. 182,307. PUBLISHED SEPTEMBER 25, 1923.

176,870. LADIES', MISSES', AND CHILDREN'S HATS AND CAPS. FASHION HAT COMPANY, New York, N. Y.
Filed June 23, 1923. Serial No. 182,373. PUBLISHED SEPTEMBER 25, 1923.

176,871. RIVETS. THE RAYBESTOS COMPANY, Bridgeport, Conn.
Filed June 28, 1923. Serial No. 182,549. PUBLISHED SEPTEMBER 25, 1923.

176,872. SINK BIBS, SINK COCKS, FAUCETS, BATH COCKS, BASIN COCKS, AND WASHTRAY BIBS. WOLVERINE BRASS WORKS, Grand Rapids, Mich.
Filed July 3, 1923. Serial No. 182,783. PUBLISHED SEPTEMBER 25, 1923.

176,873. BISCUITS, CRACKERS, COOKIES, AND CAKES. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y.
Filed June 7, 1923. Serial No. 181,644. PUBLISHED SEPTEMBER 25, 1923.

176,874. ROLLED OATS, CORN MEAL, WHEAT FLOUR, RYE FLOUR, HOMINY, AND STOCK FOODS. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed June 7, 1923. Serial No. 181,647. PUBLISHED SEPTEMBER 25, 1923.

176,875. MISSES' AND CHILDREN'S HATS. CONSOLIDATED HAT CO., New York, N. Y.
Filed June 8, 1923. Serial No. 181,674. PUBLISHED SEPTEMBER 11, 1923.

176,876. COOKIES. MAMA COOKIE BAKERY, Chicago, Ill.
Filed June 9, 1923. Serial No. 181,758. PUBLISHED SEPTEMBER 25, 1923.

176,877. LEATHER PUTTIES. THE WILLIAMS MANUFACTURING COMPANY, Portsmouth, Ohio.
Filed June 9, 1923. Serial No. 181,799. PUBLISHED SEPTEMBER 11, 1923.

176,878. MOTION PICTURES REPRODUCED IN COPIES FOR SALE. J. CARL JESSEN, Hollywood, Calif.
Filed June 13, 1923. Serial No. 181,950. PUBLISHED SEPTEMBER 25, 1923.

176,879. BRASSIÈRES. CHAS. R. DE BEVOISE CO., Newark, N. J., and New York, N. Y.
Filed June 14, 1923. Serial No. 181,983. PUBLISHED SEPTEMBER 11, 1923.

176,880. WHEAT FLOUR. THE SOUTHWESTERN MILLING COMPANY INC., New York, N. Y.
Filed June 1, 1923. Serial No. 181,461. PUBLISHED SEPTEMBER 25, 1923.

176,881. WHEAT FLOUR. THE SOUTHWESTERN MILLING COMPANY INC., New York, N. Y.
Filed June 1, 1923. Serial No. 181,462. PUBLISHED SEPTEMBER 25, 1923.

176,882. WHEAT FLOUR. THE SOUTHWESTERN MILLING COMPANY INC., New York, N. Y.
Filed June 1, 1923. Serial No. 181,463. PUBLISHED SEPTEMBER 25, 1923.

176,883. WHEAT FLOUR. WASHBURN-CROSBY COMPANY, Minneapolis, Minn.
Filed June 1, 1923. Serial No. 181,468. PUBLISHED SEPTEMBER 25, 1923.

176,884. CAMERAS. VICTOR C. ERNST, Cleveland, Ohio.
Filed June 2, 1923. Serial No. 181,480. PUBLISHED SEPTEMBER 25, 1923.

176,885. TEXTILE-FABRIC UNDERWEAR FOR WOMEN AND CHILDREN. AMERICAN LADY CORSET CO., Detroit, Mich.
Filed August 22, 1921. Serial No. 151,999. PUBLISHED APRIL 11, 1922.

176,886. MEN'S HATS. EDW. P. CUNNINGHAM, INC., New York, N. Y.
Filed June 4, 1923. Serial No. 181,514. PUBLISHED SEPTEMBER 11, 1923.

176,887. LEATHER SHOES. C. C. BLAKE, INCORPORATED, Boston, Mass.
Filed June 12, 1923. Serial No. 181,877. PUBLISHED SEPTEMBER 11, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

176,888. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) CENTRAL LABORATORIES COMPANY, St. Louis, Mo. Filed Aug. 16, 1923. Serial No. 184,541.

Nuremedy

Particular description of goods.—Preparation for the Treatment and Relief of Headache, Neuralgia, Rheumatism, Colds, La Grippe, Fevers, Chills, and Influenza.
Claims use since Mar. 12, 1919.

176,889. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) WILLIAM GOLDMAN, doing business as Modern Pressing Appliances, Brooklyn, N. Y. Filed Aug. 27, 1923. Serial No. 185,015.



Particular description of goods.—Steam Pressing Machines for Clothes.
Claims use since July, 1921.

176,890. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) A. F. GALLUN & SONS CO., Milwaukee, Wis. Filed July 25, 1923. Serial No. 183,650.

NORWEGIAN

Particular description of goods.—Leather, More Particularly Veal and Calf.
Claims use since March, 1898.

176,891. (CLASS 32. FURNITURE AND UPHOLSTERY.) JOSEPH I. SMITH, doing business as Smith Bedding Company, Ogden, Utah. Filed July 28, 1923. Serial No. 183,804.

SAGNOT

Particular description of goods.—Bed Springs and Mattresses.
Claims use since Nov. 1, 1922.

176,892. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACOB U. KUHNS, Jr., doing business as The Dairy Products Co., Greensburg, Pa. Filed July 30, 1923. Serial No. 183,838.

TASTY

Particular description of goods.—Ice Cream.
Claims use since Apr. 1, 1922.

176,893. (CLASS 39. CLOTHING.) JOHN B. STETSON COMPANY, Philadelphia, Pa. Filed July 24, 1923. Serial No. 183,638.



Particular description of goods.—Soft and Stiff Felt Hats and Caps for Men and Boys.
Claims use since March, 1920.

176,894. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY B. NAULT, doing business as Nault Oil Company, Somersworth, N. H. Filed July 23, 1923. Serial No. 183,584.

NAULT'S

Particular description of goods.—Oil Liniment for External Use.
Claims use since May 1, 1922.

176,895. (CLASS 39. CLOTHING.) TROPICAL CLOTHING MANUFACTURING CO. INC., New Orleans, La. Filed July 23, 1923. Serial No. 183,611.

TROPI-KOOL-KLOTHES

Particular description of goods.—Men's Coats and Pants.
Claims use since Jan. 1, 1922.

176,896. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE MURALO COMPANY, INC., New Brighton, Staten Island, N. Y. Filed July 18, 1923. Serial No. 183,400.

DUTCH KALSOMINE

Particular description of goods.—Calcimines in Dry Powder Form.
Claims use since Feb. 10, 1909.

176,897. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed July 23, 1923. Serial No. 183,568.

GOODYEAR

Particular description of goods.—Vehicle Rims, Automobiles and Motor Trucks, Motor-Driven Balloons, Free Balloons, Kite Balloons, Balloon Fabric, Balloon Valves, Covers for Aeroplane and Balloon Fuel Tanks, and Aerostat Accessories.
Claims use on vehicle rims since 1906; on motor-driven balloons, free balloons, kite balloons, balloon fabric, balloon valves, and balloon fuel tanks and aerostat accessories since May, 1911; and on automobiles and motor trucks since Feb. 6, 1920.

176,898. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) SHELTON VAPOR STOVE COMPANY, Indianapolis, Ind. Filed June 25, 1923. Serial No. 182,442.

LIK-GAS

Particular description of goods.—Cooking Stoves and Heating Stoves.
Claims use since May 1, 1922.

176,899. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THOMMEN'S INC., Philadelphia, Pa. Filed June 29, 1923. Serial No. 182,625.

Thommen's INC.

Particular description of goods.—Bread, Rolls, Sweet Dough, Pastry, Pies, Cakes, and Sandwiches.
Claims use since about Jan. 1, 1913.

176,900. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE MURALO COMPANY, INC., New Brighton, Staten Island, N. Y. Filed July 18, 1923. Serial No. 183,395.

MASTER PAINTER'S

Particular description of goods.—Calcimines in Dry Powder Form.
Claims use since June 1, 1911.

176,901. (CLASS 39. CLOTHING.) LILIENTHAL & GROSSMAN, INC., New York, N. Y. Filed Apr. 5, 1923. Serial No. 178,619.

Chamoislike

Particular description of goods.—Cotton-Fabric Gloves.
Claims use since Oct. 1, 1922.

176,902. (CLASS 12. CONSTRUCTION MATERIALS.) AMERICAN ASPHALT ASSOCIATION, St. Louis, Mo. Filed Apr. 9, 1923. Serial No. 178,795.

JET

Particular description of goods.—Asphaltum.
Claims use since 1902.

176,903. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DE CAMERON, INC., New York, N. Y. Filed Apr. 11, 1923. Serial No. 178,960.

Jasmin de Corée

Particular description of goods.—Perfumes.
Claims use since Oct. 1, 1921.

176,904. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) AUTOMOBILWERKE H. BÜSSING, AKTIENGESELLSCHAFT, Braunschweig, Germany. Filed May 21, 1923. Serial No. 180,918.

BÜSSING

Particular description of goods.—Motor Trucks and Motor Omnibuses.
Claims use since January, 1922.

176,905. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAYAL SINGH, Chicago, Ill. Filed Feb. 26, 1923. Serial No. 176,657.

HINDUSTAN SADHU JUNGLE ROOT DAYAL SINGH

Particular description of goods.—Medicinal Preparation for Cleansing the Blood, Nerves, Kidney Trouble, Liver, Sick Headache, Stomach Troubles, La Grippe, and Rheumatism.
Claims use since May 3, 1921.

176,906. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CENTRAL FLATIRON MFG. CO., Johnson City, N. Y. Filed Dec. 5, 1922. Serial No. 172,934.

Duo Point

Particular description of goods.—Electric Flatirons.
Claims use since November, 1918.

176,907. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. DIEHNELT, INC., Milwaukee, Wis. Filed Feb. 17, 1923. Serial No. 176,167.

MILWAUKEE BRAND

Particular description of goods.—Prepared Mustard, Honey, Pickles, Horse-Radish, Vinegar, Sweet-Pickle Relish, Salad Oil, Olives, Olive Spread, Fruit Jams, and Jellies.
Claims use since Oct. 1, 1922.

176,908. (CLASS 5. ADHESIVES.) LOUIS J. FLACH, doing business as Continental Glue Co., Cincinnati, Ohio. Filed Oct. 24, 1923. Serial No. 187,414.

PEERLESS

Particular description of goods.—Adhesive Paste in Powdered Form.
Claims use since Sept. 1, 1922.

176,909. (CLASS 15. OILS AND GREASES.) SEARS, ROEBUCK AND CO., Chicago, Ill., and Seattle, Wash. Filed Oct. 17, 1923. Serial No. 187,137.

SUPEROIL

Particular description of goods.—Lubricating Oils.
Claims use since June 1, 1922.

176,910. (CLASS 5. ADHESIVES.) LOUIS J. FLACH, doing business as Continental Glue Co., Cincinnati, Ohio. Filed Oct. 24, 1923. Serial No. 187,413.

INSTANT

Particular description of goods.—Adhesive Paste in Powdered Form.
Claims use since January, 1913.

176,911. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE GARLOCK PACKING COMPANY, Palmyra, N. Y. Filed Sept. 18, 1923. Serial No. 185,898.

PALMYRA

Particular description of goods.—Packing and Packing Material Made Wholly of or from Various Combinations of Asbestos, Rubber, Cotton, Flax, Copper, Lead, Iron, and Babbitt.
Claims use since 1904.

176,912. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FOOTE MINERAL CO., Philadelphia, Pa. Filed Sept. 25, 1923. Serial No. 186,182.

FOOTE

Particular description of goods.—Radiocrystals.
Claims use since May 1, 1922.

176,913. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) DETROIT GRAPHITE COMPANY, Detroit, Mich. Filed Oct. 3, 1923. Serial No. 186,497.

STA-WHITE

Particular description of goods.—Oil Paint.
Claims use since July 22, 1908.

176,914. (CLASS 39. CLOTHING.) MANHATTAN CORSET COMPANY, New York, N. Y. Filed Aug. 27, 1923. Serial No. 185,028.

Manhattan

Particular description of goods.—Corsets, Brassières, Waists Used as Underwear, and Bands for Personal Wear.
Claims use since on or about Aug. 8, 1920.

176,915. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) HANOVIA CHEMICAL & MANUFACTURING CO., Newark, N. J. Filed Aug. 29, 1923. Serial No. 185,122.

KROMAYER LAMP

Particular description of goods.—Quartz Lamps Used for Therapeutic Purposes.
Claims use since Jan. 1, 1908.

176,916. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL RENOVATING & SUPPLY CO., Kansas City, Mo. Filed Aug. 29, 1923. Serial No. 185,134.

National Disenfectant No. 5

Particular description of goods.—Disinfectant.
Claims use since Aug. 1, 1921.

176,917. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) TEMPLETON COAL COMPANY, Terre Haute and Sullivan, Ind. Filed Sept. 12, 1923. Serial No. 185,728.

GLENDORA
THE WONDER COAL

Particular description of goods.—Coal.
Claims use since on or about Dec. 1, 1920.

176,918. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) GARHART DENTAL SPECIALTY COMPANY, Somerville, Mass. Filed Sept. 13, 1923. Serial No. 185,752.

ROYAL

Particular description of goods.—Alloy Adapted for Use in the Making of an Amalgam for Dental Purposes.
Claims use since 1908.

176,919. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ISAAC J. ADELSON, doing business as Roberts Jewelry Co., Kansas City, Mo. Filed May 1, 1922. Serial No. 163,130.

Kimberley Gems

Particular description of goods.—Imitation White Diamonds.
Claims use since Oct. 1, 1921.

176,920. (CLASS 39. CLOTHING.) THE SHIRTCRAFT CO., INC., New York, N. Y. Filed May 8, 1922. Serial No. 163,548.

Vogue

Particular description of goods.—Dress and Negligee Shirts for Men.
Claims use since April, 1922.

176,921. (CLASS 39. CLOTHING.) SEIBERLING RUBBER COMPANY, Akron, Ohio. Filed May 26, 1922. Serial No. 164,566.

SEIBERLING

Particular description of goods.—Soles and Heels for Boots and Shoes.
Claims use since about Dec. 29, 1921.

176,922. (CLASS 39. CLOTHING.) TREO COMPANY, INC., New York, N. Y. Filed July 1, 1922. Serial No. 166,416.

"GIRDLETTE"

Particular description of goods.—Ladies' Hose Supporters, Corsets, Girdles, and Brassières.
Claims use for not less than one year.

176,923. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES H. MCGUGAN, Havana, Ark. Filed Mar. 31, 1922. Serial No. 161,573.

McGugan's OINTMENT

Particular description of goods.—Preparation for the Treatment of Goiters.
Claims use since Feb. 1, 1922.

176,924. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE MID WEST GLASS COMPANY, Cincinnati, Ohio. Filed Apr. 4, 1922. Serial No. 161,735.

your gas supply before your eye-

Particular description of goods.—Fluid Gauges.
Claims use since Dec. 1, 1921.

176,925. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE C. SPENCER, doing business as Spencer Perfume Company, South Bend, Ind. Filed Apr. 11, 1922. Serial No. 162,144.



Particular description of goods.—Toilet Waters.
Claims use since Mar. 24, 1922.

176,926. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ONEIDA COMMUNITY, LIMITED, Oneida, N. Y. Filed Aug. 26, 1922. Serial No. 168,723.

KOMPAKT

Particular description of goods.—Animal Traps.
Claims use since July 1, 1922.

176,927. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) R. S. VERMAN, Chicago, Ill. Filed Aug. 2, 1922. Serial No. 167,749.

R S V EAST INDIA YOGI NASEAM

Particular description of goods.—Medicine for Diseases of the Blood, Kidney Trouble, La Grippe and Rheumatism, Disorders of the Liver, Nerves, Headache, and Stomach Trouble.
Claims use since May 10, 1920.

176,928. (CLASS 43. THREAD AND YARN.) DETMER BRUNER & MASON, INC., New York, N. Y. Filed Aug. 3, 1922. Serial No. 167,768.

BLACK LABEL

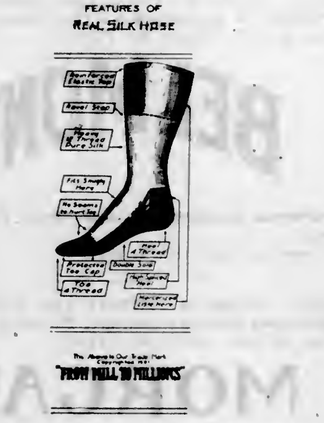
Particular description of goods.—Spool Silk.
Claims use since May 1, 1922.

176,929. (CLASS 39. CLOTHING.) REAL SILK HOSIERY MILLS, Indianapolis, Ind. Filed Nov. 16, 1921. Serial No. 155,456.

REAL SILK HOSE

Particular description of goods.—Hosiery.
Claims use since Jan. 1, 1921.

176,930. (CLASS 39. CLOTHING.) REAL SILK HOSIERY MILLS, Indianapolis, Ind. Filed Nov. 16, 1921. Serial No. 155,458.



Particular description of goods.—Hosiery.
Claims use since Oct. 1, 1921.

176,931. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RAFFAELE GUIDI, New York, N. Y. Filed Dec. 17, 1921. Serial No. 156,829.

Anti-Blenorrhagic

(GUIDI)

Particular description of goods.—An Internal Preparation for Gonorrhea and Gleet.
Claims use since Nov. 1, 1921.

176,932. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) GEO. RINGLER & CO., New York, N. Y. Filed Jan. 13, 1921. Serial No. 142,232.

Nourishing Brew

Particular description of goods.—A Malt Beverage.
Claims use since Nov. 22, 1920.

176,933. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AMERICAN BOSCH MAGNETO CORPORATION, Springfield, Mass. Filed July 7, 1921. Serial No. 150,091.

BOSCH

Particular description of goods.—Ignition and Starting Apparatus for Internal-Combustion Engines and Electric-Lighting Systems for Moving Vehicles, Consisting of Magneto-Electric Generators, Spark Plugs, Mechanical Interrupters and Distributors for Ignition Systems, Timer Distributors for Battery Ignition Systems, Electric Condensers, Ignition Coils, Electric Motors, Electric Generators, Electric Switches, Headlights, Incandescent Lamps, Cable Conduits, Insulated Cables, Cable Terminals, and Parts Thereof.
Claims use since September, 1906.

176,934. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) S. E. GROSSFELD & CO., Chicago, Ill. Filed Dec. 4, 1922. Serial No. 172,877.

BELMONT

Particular description of goods.—Fruit Preserves and Honey.
Claims use since Oct. 1, 1922.

176,935. (CLASS 42. THREAD AND YARN.) MANUFACTURERS SUPPLIES COMPANY, St. Louis, Mo. Filed Oct. 28, 1922. Serial No. 171,335.

MORGAN

Particular description of goods.—Threads.
Claims use since prior to Jan. 1, 1921.

176,936. (CLASS 43. THREAD AND YARN.) MANUFACTURERS SUPPLIES COMPANY, St. Louis, Mo. Filed Oct. 23, 1922. Serial No. 171,095.

STRATFORD

Particular description of goods.—Threads.
Claims use since Jan. 1, 1922.

176,937. (CLASS 43. THREAD AND YARN.) MANUFACTURERS SUPPLIES COMPANY, St. Louis, Mo. Filed Oct. 23, 1922. Serial No. 171,093.

NEWPORT

Particular description of goods.—Threads.
Claims use since Feb. 1, 1922.

176,938. (CLASS 2. RECEPTACLES.) CYCLONE FENCE COMPANY, North Chicago, Ill. Filed Oct. 12, 1922. Serial No. 170,630.

CATCH-ALL

Particular description of goods.—Metal Refuse Baskets.
Claims use since Sept. 29, 1922.

176,939. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ORAN W. CLIETT, San Marcos, Tex. Filed Oct. 12, 1922. Serial No. 170,622.



The drawing is lined to indicate red.
Particular description of goods.—Corn Seed, Cane Seed, and Cottonseed.
Claims use since July 1, 1922.

176,940. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WYNNE LARD & PROVISION CO. INC., Norfolk, Va. Filed Oct. 7, 1922. Serial No. 170,460.

A No. 1 BRAND

Particular description of goods.—Lard Substitute Made from Cottonseed Oil and Oleostearin.
Claims use since Mar. 15, 1921.

176,941. (CLASS 39. CLOTHING.) AMERICAN WHOLESALE CORPORATION, (BALTIMORE BARGAIN HOUSE), Baltimore, Md. Filed Oct. 12, 1922. Serial No. 170,612.

STETSON

Particular description of goods.—Suspenders and Belts.
Claims use since Sept. 1, 1922.

176,942. (CLASS 39. CLOTHING.) ARTHUR WALLACE, Boston, Mass. Filed Sept. 1, 1922. Serial No. 168,992.



Particular description of goods.—Boots, Shoes, and Slippers Made Wholly or in Part of Leather, Rubber, Canvas, or Textile Material.
Claims use since Dec. 1, 1921.

176,943. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CENTURY BRASS WORKS, INC., Belleville, Ill. Filed Oct. 2, 1922. Serial No. 170,181.

CENTURY

Particular description of goods.—Drinking Fountains, Ice-Cooled Fountains, and Plumbing Supplies—Namely, Faucets, Stopcocks, Basin Cocks, Plain Bibs, Hose Bibs, Sillcocks, and Bathtub Fixtures.
Claims use since Sept. 13, 1922.

176,944. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANNA LEGENDY, Newark, N. J. Filed Aug. 10, 1922. Serial No. 168,049.

Legendy

Particular description of goods.—Corn Salves.
Claims use since July 26, 1922.

176,945. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) TOTTENVILLE COPPER COMPANY INC., Tottenville, N. Y. Filed Aug. 12, 1922. Serial No. 168,179.

RICHMOND

Particular description of goods.—Metals—Namely, Spelter.
Claims use since Jan. 3, 1922.

INTERNATIONAL TRADE-MARK REGISTRATIONS

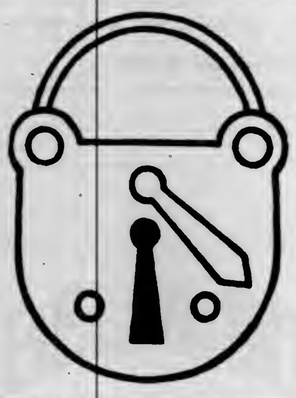
The following International Registrations have been received from the Bureau at Habana and have been placed upon the Register in accordance with the provisions of section 1 (a) of the act of March 19, 1920.

176,946. International Registration No. 902 of October 11, 1923. Registered in Cuba on April 12, 1920, No. 35,204. Proprietor: CRUSELLAS Y COMPAÑIA, S. EN C. Address: Calzada de Buenos Aires, Habana, Cuba.

CANDADO

Merchandise to which the mark is affixed.—Soaps of All Kinds.

176,947. International Registration No. 903 of October 11, 1923. Registered in Cuba on May 10, 1920, No. 35,368. Proprietor: CRUSELLAS Y COMPAÑIA, S. EN C. Address: Calzada de Buenos Aires, Habana, Cuba.



Merchandise to which the mark is affixed.—Soaps of All Kinds.

176,948. International Registration No. 904 of October 11, 1923. Registered in Cuba on July 13, 1921, No. 36,569. Proprietor: CRUSELLAS Y CAMPAÑIA, S. EN C. Address: Calzada de Buenos Aires, Habana, Cuba.

CRUSELLAS

Merchandise to which the mark is affixed.—Washing Soap.

LABELS

REGISTERED DECEMBER 4, 1923.

26,598.—*Title:* SAVOLY K Y X. For Powder Finger-Nail Polish. THE ARMAND COMPANY, Des Moines, Iowa. Published October 30, 1923.

26,599—*Title:* BOLLINGERS MALTED MILK BREAD. For Bread. ALFRED J. BOLLINGER, Orlando, Fla. Published September 25, 1923.

26,600.—*Title:* CINO MINIATURE FARM. For Toy Houses, Barns, Outbuildings, Trees, Shrubbery, People, Animals, Poultry, and other Things Common to a Farm. CINO TOY WORKS, Cincinnati, Ohio. Published July 9, 1923.

26,601.—*Title:* CLEGG'S (REPRESENTATION OF AN EYE) GROW HAIR. For Hair Tonic. HENRY B. CLEGG, Los Angeles, Calif. Published September 17, 1923.

26,602.—*Title:* PEPSID. For a Preparation for Indigestion. COFIELD LABORATORIES, INC., Philadelphia, Pa. Published October 1, 1923.

26,603.—*Title:* IDEAL NUT CRACKER. For Nutcrackers. COOK ELECTRIC COMPANY, Chicago, Ill. Published October 8, 1923.

26,604.—*Title:* DESERT REMEDY. For Ephedra Nevadensis. DESERT REMEDY COMPANY, Tucson, Ariz., and Deming, N. Mex. Published October 22, 1923.

26,605.—*Title:* ELINE'S PURE MILK CHOCOLATE BOATS—BUY THEM FOR THE CHILDREN. For Chocolate. ELINE'S INCORPORATED, Milwaukee, Wis. Published September 4, 1923.

26,606.—*Title:* ELINE'S PURE MILK CHOCOLATE BOATS 5¢. For Chocolate. ELINE'S INCORPORATED, Milwaukee, Wis. Published September 4, 1923.

26,607.—*Title:* THE EMBOSSING COMPANY'S EVEREDY MODELLING MATERIAL. For Plastic Compositions or the Like for Modeling Purposes. THE EMBOSSING COMPANY, Albany, N. Y. Published October 10, 1923.

26,608.—*Title:* ANTILLAS BRAND ROCK LOBSTER. For Lobsters. WILLIAM FRANK & COMPANY, INC., New York, N. Y. Published October 15, 1923.

26,609.—*Title:* MESSINA. For Canned Tuna Fish. FRENCH SARDINE CO., East San Pedro, Calif. Published August 6, 1923.

26,610.—*Title:* FAIRY SWEETS, ADONIS CANDIES. For Candies. PAUL FREUND INC., New Orleans, La. Published September 1, 1923.

26,611.—*Title:* PLATENOLE. For a Preparation for Treating Typewriter Rollers. J. E. FULLER, doing business as J. E. Fuller Specialty Company, Kansas City, Kans. Published November 1, 1923.

26,612.—*Title:* KLEENZ 'EM. For Hand Cleanser. H. B. GARSIDE, Los Angeles, Calif. Published October 10, 1923.

26,613.—*Title:* DORA-DEE. For Silk Hosiery for Women. HANSEN HOSIERY HOUSE, Spokane, Wash. Published October 18, 1923.

26,614.—*Title:* HELLER'S ICE CREAM BOUQUET. For Dry Powder Flavoring Compound for Use in Flavoring Ice Cream. B. HELLER & COMPANY, Chicago, Ill. Published September 15, 1923.

26,615.—*Title:* CHEEZ-KLOTH-PACK. For Cheese Cloth. HIGH GRADE MILLS, INC., New York, N. Y. Published October 11, 1923.

26,616.—*Title:* HILLIARD'S HEALING HAZEL CREAM. For Medicinal Preparation for the Treatment of the Skin. DAVID G. HILLIARD, Trenton, N. J. Published August 29, 1923.

26,617.—*Title:* ASK FOR THE HIRSCHNET. For a Special One-Piece Folded and Printed Paper Envelope in Which Hirschnet Hair Nets Exclusively Are Packed. HIRSCH'S HAIR BAZAAR INC., St. Louis, Mo. Published September 26, 1923.

26,618.—*Title:* PRINCE CHARMING. For Candy. E. A. HOFFMAN CANDY CO., Los Angeles, Calif. Published September 15, 1923.

26,619.—*Title:* HOLLY CHAMPAGNE. For Extracts, Sirups, and Beverages. STEPHEN M. HOYE, New York, N. Y. Published September 21, 1923.

26,620.—*Title:* CRISP * O * LITE. For Crackers. HOYT'S CONSUMERS CRACKER & BISCUIT CORPORATION, also doing business as Hoyt's Cracker & Biscuit Corporation, Los Angeles, Calif. Published July 18, 1923.

26,621.—*Title:* JERSEY JERRY. For Crates Containing Fruits. JERSEY FRUIT GROWERS CO-OPERATIVE ASSOCIATION, Camden, N. J. Published June 30, 1923.

26,622.—*Title:* GLADICE. For Writing Tablets. KALAMAZOO STATIONERY CO., Kalamazoo, Mich. Published September 1, 1923.

26,623.—*Title:* KELLOGG'S CORN FLAKES. For Cereal Breakfast Food. KELLOGG COMPANY, Battle Creek, Mich. Published August 9, 1923.

26,624.—*Title:* HERCULES. For Liquid Glue. WALTER E. KRIEL, Baltimore, Md. Published June 28, 1923.

26,625.—*Title:* ARMY & NAVY. For Liquid Glue. WALTER E. KRIEL, Baltimore, Md. Published June 28, 1923.

26,626.—*Title:* VITA PERFECTA. For a Medicinal Compound. JOSEPH O. LEMIEUX, doing business as J. O. Lemieux Company, Manchester, N. H. Published Septembr 1, 1923.

26,267.—*Title:* MILO WHEAT. For Cereal Food. LOS ANGELES MILO WHEAT CO., Glendale, Calif. Pubdren's Use. MCKEE GLASS COMPANY, Jeannette, Pa.

26,628.—*Title:* GLASBAKE GUARANTEED GLASS COOKING WARE JUVENILE SET OUR "BETTY JANE" SET. For Glass Cooking Dishes for Children's Use. MCKEE GLASS COMPANY, Jeannette, Pa. Published October 5, 1923.

26,629.—*Title:* SELECTED EGGS. For Cartons Containing Eggs. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis. Published October 10, 1923.

26,630.—*Title:* GOLDEN GRAIN. For Butter. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Golden Grain Butter Company, Cape Girardeau, Mo. Published September 17, 1923.

26,631.—*Title:* MONARCH. For Butter. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Laabs Bros. Company, Milwaukee, Wis. Published August 23, 1923.

26,632.—*Title:* DIXIE ROSE. For Hosiery. THE G. D. MILLIGAN COMPANY, Springfield, Mo. Published June 18, 1923.

26,633.—*Title:* A MULFORD PRODUCT. For Cartons for Holding Bulbs. HEWETT P. MULFORD & CO., Lebanon, Ohio. Published August 28, 1923.

26,634.—*Title:* NELSON BALL BEARING TIMER. For Timers. NELSON TIMER COMPANY, Milwaukee, Wis. Published September 1, 1923.

26,635.—*Title:* NULUSTA SHOE POLISH. For Tubes and Cartons Containing Shoe Polish. NULUSTA COMPANY, Baltimore, Md. Published August 1, 1923.

26,636.—*Title:* LIBERTY. For Macaroni. SALVATORE NUNZIATO, doing business as Pacific Macaroni Co., Los Angeles, Calif. Published September 7, 1923.

26,637.—*Title:* BLACK POINT. For Fresh Tomatoes. A. T. PEARCE, Miami, Fla. Published September 18, 1923.

26,638.—*Title:* PHILLIPS WAFFLE AND PANCAKE FLOUR. For Waffle and Pancake Flour. SIDNEY M. PHILLIPS, doing business as Phillips Milling Co., Sacramento, Calif. Published June 1, 1923.

26,639.—*Title:* PHILLIPS MINUTE RICE. For Rice. SIDNEY M. PHILLIPS, doing business as Phillips Milling Co., Sacramento, Calif. Published June 1, 1923.

26,640.—*Title:* CAPTAIN KIDD. For Peas. ROCHELLE CANNERIES, INC., Rochelle, Ill. Published August 15, 1923.

26,641.—*Title:* 1000 FUNNY FACES. For Toy Puzzles. MATTHEW W. SANDERS, doing business as Sanders Printing Co., Chicago, Ill. Published September 8, 1923.

26,642.—*Title:* SILVER & GOLD INC., THE WORLD'S STANDARD CLOTHIERS—HABERDASHERS. For Men's Clothing. SILVER & GOLD, INC., New York, N. Y. Published September 1, 1923.

26,643.—*Title:* RED GIRL. For Fresh Apples. SMITH & HOLDEN, New York, N. Y. Published September 20, 1923.

26,644.—*Title:* RED BOY. For Fresh Apples. SMITH & HOLDEN, New York, N. Y. Published September 20, 1923.

26,645.—*Title:* SUPREME VELLUM. For Special Tracing Papers. SPECIAL PAPER MFG. CO., New York, N. Y. Published August 1, 1923.

26,646.—*Title:* SUPER-BOND VELLUM. For Special Tracing Papers. SPECIAL PAPER MFG. CO., New York, N. Y. Published August 1, 1923.

26,647.—*Title:* SUNSET CLUB. For Grape Punch and other Flavors of Carbonated Beverages. SUNSET CLUB BOTTLING CO., Sherman, Calif. Published September 12, 1923.

26,648.—*Title:* TEXAS CITRUS FRUIT GROWERS EXCHANGE. For Citrous-Fruit Wrappers. TEXAS CITRUS FRUIT GROWERS EXCHANGE, Mission, Tex. Published September 29, 1923.

26,649.—*Title:* LAURA DOUBLE MESH NET. For Hair Nets. CHARLES K. THAU, doing business as Laura Hair Novelty Co., New York, N. Y. Published September 22, 1923.

26,650.—*Title:* ARMISTICE. For Sardines. THE UNIVERSAL IMPORTING COMPANY, Montreal, Canada. Published March 1, 1922.

26,651.—*Title:* ALUCOL. For a Medicinal Preparation—Namely, an Antacid, Absorbent, Soothing, Astringent. THE WANDER COMPANY, Chicago, Ill. Published April 15, 1923.

26,652.—*Title:* WARD'S MILK-MAID BREAD. For Bread. WARD BAKING COMPANY, New York, N. Y. Published October 18, 1923.

26,653.—*Title:* WARD'S WHITE STAR BREAD. For Bread. WARD BAKING COMPANY, New York, N. Y. Published October 18, 1923.

26,654.—*Title:* UNCLE WIGGILY'S OUTING. For Metallic Containers. FRED A. WISH, INC., New York, N. Y. Published March 19, 1923.

26,655.—*Title:* UNCLE WIGGILY AT THE SEASHORE. For Metallic Containers. FRED A. WISH, INC., New York, N. Y. Published March 19, 1923.

26,656.—*Title:* YES. For Water-Softening and Cleaning Powder. YARGER & SYLER, Canton, Ohio. Published September 25, 1923.

PRINTS

REGISTERED DECEMBER 4, 1923.

7,015.—*Title:* WEAR KNIT UNDERWEAR. For Knit Underwear. ASSOCIATED KNIT UNDERWEAR MANUFACTURERS OF AMERICA, Utica, N. Y. Published August 17, 1923.

7,016.—*Title:* UNQUESTIONABLY THE BEST. For Foot Powders for Foot Baths. CHARLES G. BOYD, Bethlehem, Pa. Published October 22, 1923.

7,017.—*Title:* CANADA DRY THE CHAMPAGNE OF GINGER ALES. For Ginger Ale. CANADA DRY GINGER ALE, INC., New York, N. Y. Published October 15, 1923.

7,018.—*Title:* PARIS DE COTY. For Perfume. COTY, INC., Wilmington, Del., and New York, N. Y. Published November 1, 1923.

7,019.—*Title:* THE 'LISTLESS AGE.' For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published October 10, 1923.

7,020.—*Title:* HIGHTONE KUT II. For Fancy Cut Spectacle and Eyeglass Lenses. WM. B. GEORGIA, Waco, Tex. Published October 24, 1923.

7,021.—*Title:* HIGHTONE KUT II. For Fancy Cut Spectacle and Eyeglass Lenses. WM. B. GEORGIA, Waco, Tex. Published October 24, 1923.

7,022.—*Title:* TWILYTE-RA KUT LENZEZ. For Fancy Cut Spectacle Eyeglass and Colored Lenses. WM. B. GEORGIA, Waco, Tex. Published October 26, 1923.

7,023.—*Title:* FIFTY YEARS AGO—WHEN THE VILLAGE GROCER, ETC. For Heinz 57 Varieties. H. J. HEINZ CO., Pittsburgh, Pa. Published November 1, 1923.

7,024.—*Title:* JAPANESE TEA GARDENS AND PICKERS. For Tea. JEWEL TEA CO. INC., Chicago, Ill. Published September 1, 1923.

7,025.—*Title:* UNITY. For Stoves. FRANK KRUX, Chicago, Ill. Published January 29, 1923.

7,026.—*Title:* A DELIGHT TO EYE AND PALATE. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,027.—*Title:* THREE DELICIOUS DISHES. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,028.—*Title:* WINSOMENESS. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,029.—*Title:* A ROYAL FEAST. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,030.—*Title:* JUST AS GOOD AS IT LOOKS. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,031.—*Title:* PINEAPPLE AND CHERRIES. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,032.—*Title:* DELICIOUSNESS WITH CRUSHED FRUITS. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,033.—*Title:* A FOUNTAN DRINK. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,034.—*Title:* REAL FOOD FOR EVERYONE. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,035.—*Title:* IT'S A TREAT INDEED. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,036.—*Title:* A DELICIOUS DISH. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,037.—*Title:* TEMPTS ANY APPETITE. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,038—*Title:* EVERYBODY'S FAVORITE. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,039.—*Title:* THE KIDDIES' DELIGHT. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,040.—*Title:* GOOD! EVERY DAY IN THE YEAR. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,041.—*Title:* GOOD AS GOLD. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,042.—*Title:* SUMMER'S REFRESHMENT. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,043.—*Title:* THE FAVORITE OF CHILDHOOD. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,044.—*Title:* AUTUMN GLORY. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,045.—*Title:* THE PRIDE OF JUNE. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,046.—*Title:* HIS BEST EFFORT. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,047—*Title:* A WONDERFUL COMBINATION. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,048.—*Title:* SATISFACTION IN BOTH. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published September 28, 1923.

7,049.—*Title:* CHEX—THRILLS YOU WITH CLEANLINESS. For Soap. THE PIONEER PRODUCTS CO., Dayton, Ohio. Published July 27, 1923.

7,050.—*Title:* SEALRIGHT PAPER BUTTER TUBS. For Sealright Paper Boxes. SEALRIGHT CO. INC., Fulton, N. Y. Published May 4, 1923.

7,051.—*Title:* SEALRIGHT PAPER BUTTER TUBS. For Sealright Paper Boxes. SEALRIGHT CO. INC., Fulton, N. Y. Published May 1, 1923.

7,052.—*Title:* A VITALLY IMPORTANT PLACE IN EVERY HOME. For Household Products. E. R. SQUIBB & SONS, New York, N. Y. Published August 18, 1923.

7,053.—*Title:* A NEW DENTAL CREAM THAT HALTS ACID-EROSION AT THE DANGER LINE. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published July 1, 1923.

7,054.—*Title:* NURSES APPRECIATE THE EXCEPTIONAL PURITY OF THESE PRODUCTS. For Cold Cream. E. R. SQUIBB & SONS, New York, N. Y. Published July 1, 1923.

7,055.—*Title:* ARE YOU BUYING YOUR MEDICINE CABINET REQUISITES "IN THE DARK"? For Drugs. E. R. SQUIBB & SONS, New York, N. Y. Published August 1, 1923.

7,056.—*Title:* SOLID SILVER PRECIOUS THROUGH THE AGES. For Solid Silverware. TOWLE MANUFACTURING CO., Newburyport, Mass. Published October 1, 1923.

7,057.—*Title:* KEEPING YOUR CHILD'S HAIR BEAUTIFUL. For Mulsified Coconut-Oil Shampoo. THE R. L. WATKINS COMPANY, Cleveland, Ohio. Published May 1, 1923.

7,058.—*Title:* WHY PROPER SHAMPOOING MAKES YOUR HAIR BEAUTIFUL. For Mulsified Coconut-Oil Shampoo. THE R. L. WATKINS COMPANY, Cleveland, Ohio. Published February 1, 1923.

7,059.—*Title:* WHY YOU MUST HAVE BEAUTIFUL WELL-KEPT HAIR—TO BE ATTRACTIVE. For Mulsified Coconut-Oil Shampoo. THE R. L. WATKINS COMPANY, Cleveland, Ohio. Published January 4, 1923.

7,060.—*Title:* THE CHARM OF BEAUTIFUL HAIR. For Mulsified Coconut Oil Shampoo. THE R. L. WATKINS COMPANY, Cleveland, Ohio. Published March 20, 1923.

7,061.—*Title:* THE SECRET OF HAVING BEAUTIFUL HAIR. For Mulsified Coconut-Oil Shampoo. THE R. L. WATKINS COMPANY, Cleveland, Ohio. Published May 10, 1923.

7,062.—*Title:* DIM BRITE. For Dimming Switch on Automobile Steering Wheels. WEBER TOOL, DIE AND MACHINE COMPANY, Middletown, Ohio. Published September 10, 1923.

REISSUES

DECEMBER 4, 1923.

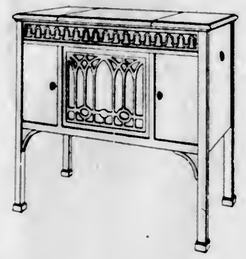
15,727. VITREOUS PRODUCT AND PROCESS FOR THE MANUFACTURE THEREOF. PERCY BROADBENT CROSSLEY, Calcutta, India. Filed Apr. 3, 1922. Serial No. 549,302. Original No. 1,394,973, dated Oct. 25, 1921, Serial No. 326,917, filed Sept. 27, 1919. 25 Claims. (Cl. 106—36.1.)

1. The method of manufacturing glass which comprises heating a mixture of vitreous material and a silicate of high fusibility to a temperature between that at which said vitreous material melts and that at which the silicate begins to lose its water of hydration; whereby the silicate is dissolved in the molten vitreous material.

DESIGNS

DECEMBER 4, 1923.

63,386. PHONOGRAPH CABINET. RAIMONDO C. AIMONE, New Rochelle, N. Y., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a Corporation of New Jersey. Filed Mar. 22, 1922. Serial No. 1,335. Term of patent 14 years.



The ornamental design for a phonograph cabinet as shown.

63,387. PHONOGRAPH CABINET. RAIMONDO C. AIMONE, New Rochelle, N. Y., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a Corporation of New Jersey. Filed Mar. 22, 1922. Serial No. 1,336. Term of patent 14 years.



The ornamental design for a phonograph cabinet as shown.

63,388. LAMP. MARY ELIZABETH BISHOP, Brooklyn, N. Y., assignor to Decorative Arts League, Jersey City, N. J., a Corporation of New Jersey. Filed June 13, 1923. Serial No. 6,487. Term of patent 14 years.



The ornamental design for a lamp, as shown.

63,389. TEXTILE FABRIC. JOHN S. BOYD, Williamstown, Mass., assignor to John S. Boyd Co., Inc., Williamstown Mass., a Corporation of Massachusetts. Filed Apr. 10, 1923. Serial No. 5,737. Term of patent 14 years.



The ornamental design for a textile fabric, as shown.

63,390. TEXTILE FABRIC. JOHN S. BOYD, Williamstown, Mass., assignor to John S. Boyd Co., Inc., Williamstown, Mass., a Corporation of Massachusetts. Filed Apr. 10, 1923. Serial No. 5,744. Term of patent 14 years.



The ornamental design for a textile fabric, as shown.

63,391. TEXTILE FABRIC. JOHN S. BOYD, Williamstown, Mass., assignor to John S. Boyd Co., Inc., Williamstown, Mass., a Corporation of Massachusetts. Filed Apr. 10, 1923. Serial No. 5,747. Term of patent 14 years.



The ornamental design for a textile fabric, as shown.

63,392. TEXTILE FABRIC. JOHN S. BOYD, Williamstown, Mass., assignor to John S. Boyd Co., Inc., Williamstown, Mass., a Corporation of Massachusetts. Filed Apr. 10, 1923. Serial No. 5,749. Term of patent 14 years.



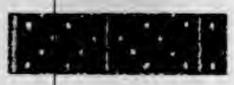
The ornamental design for a textile fabric, as shown.

63,393. TEXTILE FABRIC. JOHN S. BOYD, Williamstown, Mass., assignor to John S. Boyd Co., Inc., Williamstown, Mass., a Corporation of Massachusetts. Filed Apr. 10, 1923. Serial No. 5,753. Term of patent 14 years.



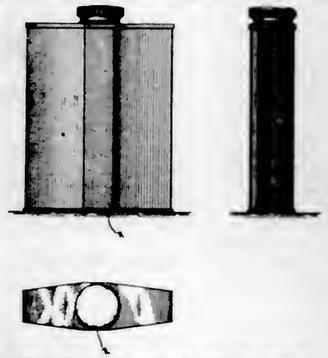
The ornamental design for a textile fabric, as shown.

63,394. TEXTILE FABRIC. JOHN S. BOYD, Williamstown, Mass., assignor to John S. Boyd Co., Inc., Williamstown, Mass., a Corporation of Massachusetts. Filed Apr. 11, 1923. Serial No. 5,785. Term of patent 14 years.



The ornamental design for a textile fabric, as shown.

63,395. TALCUM-POWDER CAN. FRANCOIS JOSEPH DE SPOTURNO COTY, Paris, France. Filed Nov. 23, 1922. Serial No. 4,378. Term of patent 14 years.



The ornamental design for a talcum powder can substantially as shown.

63,396. JUG. GEORGE E. CURTISS, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed May 22, 1923. Serial No. 6,241. Term of patent 14 years.



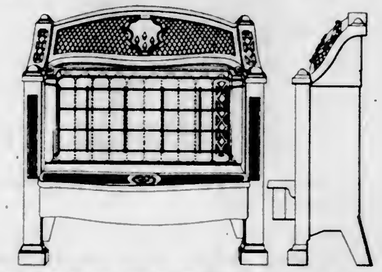
The ornamental design for a jug, as shown.

63,397. PLAQUE. EUGENE A. DE LAN, New Castle, Pa., assignor to Shenango Pottery Co., New Castle, Pa., a Corporation of Pennsylvania. Filed July 17, 1923. Serial No. 6,788. Term of patent 7 years.



The ornamental design for a plaque, as shown.

63,398. GAS HEATER. JOHN H. GRAYSON, Athens, Ohio, assignor to The J. H. Grayson Manufacturing Company, Athens, Ohio, a Corporation of Ohio. Filed Aug. 1, 1923. Serial No. 6,918. Term of patent 14 years.



The ornamental design for a gas heater, as shown.

63,399. TOY BALLOON. JOHN J. GUINTER, Akron, Ohio. Filed Mar. 24, 1922. Serial No. 1,375. Term of patent 7 years.



The ornamental design for a toy balloon, as shown.

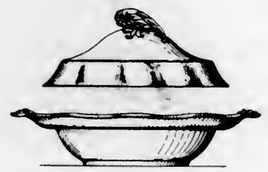
63,400. BOTTLE. EUGENE L. HUSTING, Milwaukee, Wis. Filed Jan. 20, 1923. Serial No. 4,940. Term of patent 14 years.



The ornamental design for a bottle, as shown.

63,401. COVERED DISH OR SIMILAR ARTICLE. ERNEST JAMES JOHNSON, Hanley, England, assignor to Johnson Brothers Hanley (Ltd.), Hanley, England, a Corporation of England. Filed Jan. 2, 1923. Serial No. 4,789. Term of patent 3½ years.





The ornamental design for a covered dish or similar article, as shown.

63,402. LEVER FOR FLASH LIGHTS. GUSTAF I. JOHNSON, Malden, Mass. Filed Feb. 14, 1922. Serial No. 701. Term of patent 3½ years.



The ornamental design for a lever for flash lights as shown.

63,403. LIGHTING-FIXTURE ARM. NORMAN LIPSKY, New York, N. Y., assignor to Henry Hyman & Company, Inc., a Corporation of New York. Filed May 15, 1923. Serial No. 6,165. Term of patent 3½ years.



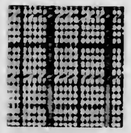
The ornamental design for a lighting fixture arm, as shown.

63,404. LIGHTING-FIXTURE BRACKET. NORMAN LIPSKY, New York, N. Y., assignor to Henry Hyman & Company, Inc., a Corporation of New York. Filed May 15, 1923. Serial No. 6,166. Term of patent 3½ years.



The ornamental design for a lighting fixture bracket as shown.

63,405. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,326. Term of patent 3½ years.



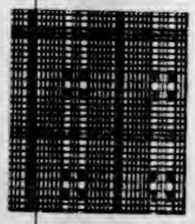
An ornamental design for textile fabric substantially as shown and described.

63,406. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,327. Term of patent 3½ years.



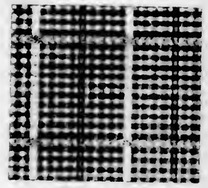
An ornamental design for textile fabric substantially as shown and described.

63,407. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,328. Term of patent 3½ years.



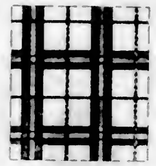
An ornamental design for textile fabric substantially as shown and described.

63,408. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,329. Term of patent 3½ years.



An ornamental design for textile fabric substantially as shown and described.

63,409. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,330. Term of patent 3½ years.



An ornamental design for textile fabric substantially as shown and described.

63,410. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,331. Term of patent 3½ years.

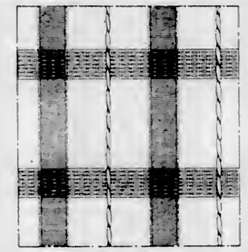
An ornamental design for textile fabric substantially as shown and described.

63,411. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,332. Term of patent 3½ years.



An ornamental design for textile fabric substantially as shown and described.

63,412. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,333. Term of patent 3½ years.



An ornamental design for textile fabric substantially as shown and described.

63,413. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,336. Term of patent 3½ years.



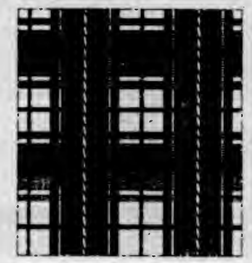
An ornamental design for textile fabric substantially as shown and described.

63,414. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,337. Term of patent 3½ years.



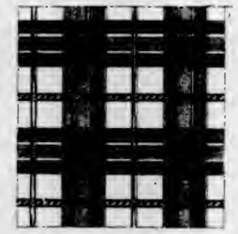
An ornamental design for textile fabric substantially as shown and described.

63,415. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,338. Term of patent 3½ years.



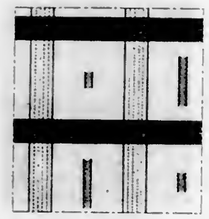
An ornamental design for textile fabric substantially as shown and described.

63,416. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,339. Term of patent 3½ years.



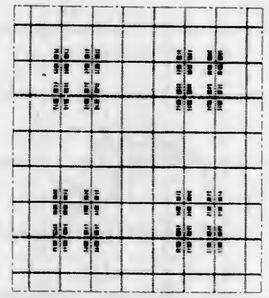
An ornamental design for textile fabric substantially as shown and described.

63,417. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,340. Term of patent 3½ years.



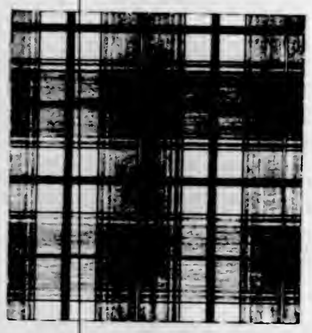
An ornamental design for textile fabric substantially as shown and described.

63,418. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,341. Term of patent 3½ years.



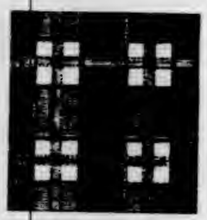
An ornamental design for textile fabric substantially as shown and described.

63,419. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,342. Term of patent 3½ years.



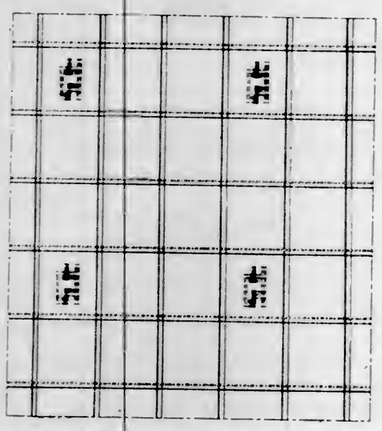
An ornamental design for textile fabric substantially as shown and described.

63,420. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,343. Term of patent 3½ years.



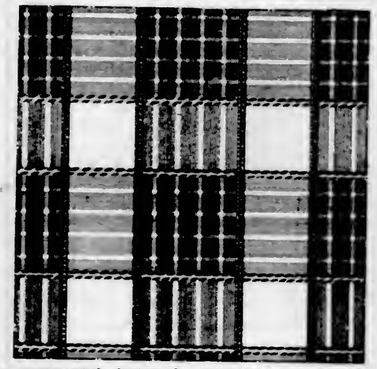
An ornamental design for textile fabric substantially as shown and described.

63,421. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,344. Term of patent 3½ years.



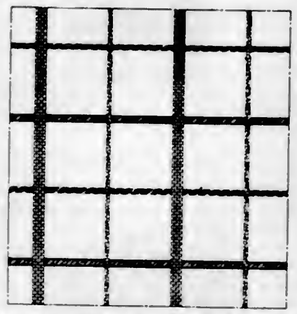
An ornamental design for textile fabric substantially as shown and described.

63,422. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,345. Term of patent 3½ years.



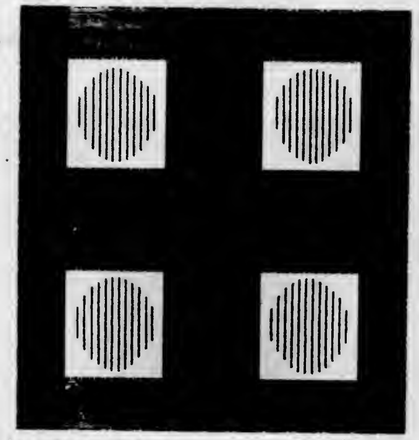
An ornamental design for textile fabric substantially as shown and described.

63,423. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,346. Term of patent 3½ years.



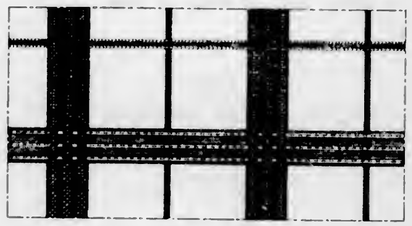
An ornamental design for textile fabric substantially as shown and described.

63,424. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,347. Term of patent 3½ years.



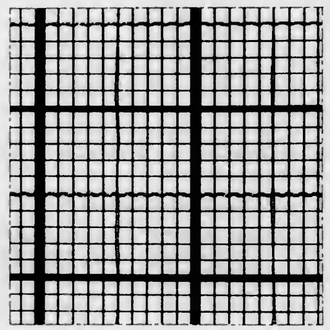
An ornamental design for textile fabric substantially as shown and described.

63,425. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,348. Term of patent 3½ years.



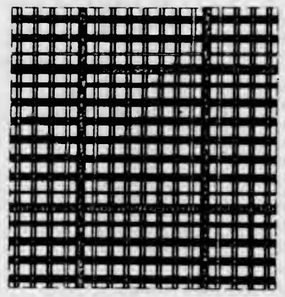
An ornamental design for textile fabric substantially as shown and described.

63,426. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,349. Term of patent 3½ years.



An ornamental design for textile fabric substantially as shown and described.

63,427. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,350. Term of patent 3½ years.



An ornamental design for textile fabric substantially as shown and described.

63,428. TEXTILE FABRIC. CHARLES E. LORD, Tarrytown, N. Y. Filed May 31, 1923. Serial No. 6,353. Term of patent 3½ years.



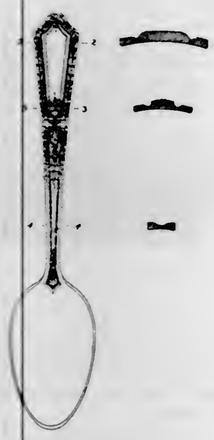
An ornamental design for textile fabrics substantially as shown and described.

63,429. SMOKER'S STAND. JOHN MULLER, Flushing, N. Y., assignor to Decorative Arts League, Jersey City, N. J., a Corporation of New Jersey. Filed June 8, 1923. Serial No. 6,447. Term of patent 14 years.



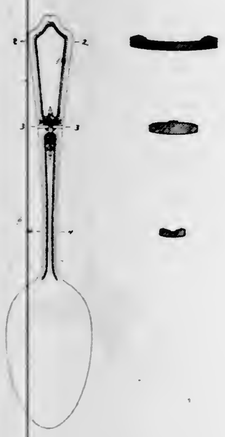
The ornamental design for a smoker's stand, as shown.

63,430. SPOON OR ANALOGOUS ARTICLE. HAROLD E. NOCK, Newburyport, Mass., assignor to Towle Manufacturing Company, Newburyport, Mass., a Corporation of Massachusetts. Filed May 17, 1923. Serial No. 6,178. Term of patent 14 years.



The ornamental design for a spoon or analogous article, substantially as shown.

63,431. SPOON OR ANALOGOUS ARTICLE. HAROLD E. NOCK, Newburyport, Mass., assignor to Towle Manufacturing Company, Newburyport, Mass., a Corporation of Massachusetts. Filed July 5, 1923. Serial No. 6,686. Term of patent 14 years.



The ornamental design for a spoon or analogous article, substantially as shown.

63,432. SPOON OR ANALOGOUS ARTICLE. HAROLD E. NOCK, Newburyport, Mass., assignor to Towle Manufacturing Company, Newburyport, Mass., a Corporation of Massachusetts. Filed Aug. 4, 1923. Serial No. 6,941. Term of patent 14 years.



The ornamental design for a spoon or analogous article, substantially as shown.

63,433. PERFUME BOTTLE. LOUIS PHILIPPE, New York, N. Y. Filed June 2, 1923. Serial No. 6,376. Term of patent 3½ years.



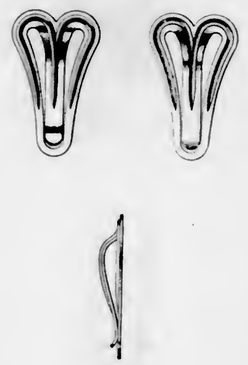
The ornamental design for a perfume bottle as shown.

63,434. PERFUME BOTTLE. LOUIS PHILIPPE, New York, N. Y. Filed June 27, 1923. Serial No. 6,598. Term of patent 3½ years.



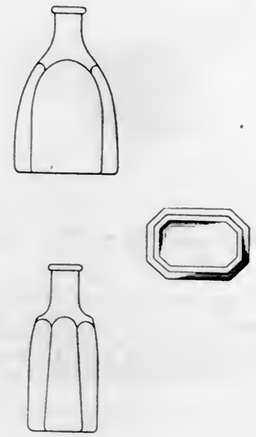
The ornamental design for a perfume bottle as shown.

63,435. CLASP. LEVI J. ROY, Providence, R. I. Filed Jan. 27, 1923. Serial No. 5,015. Term of patent 3½ years.



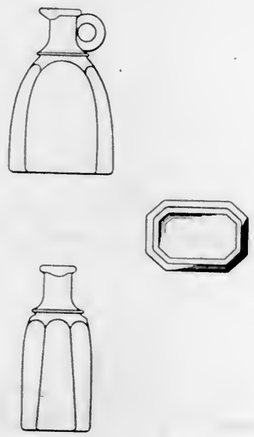
The ornamental design for a clasp, as shown.

63,436. DECANTER. FREDERICK W. SCHWENCK, Cincinnati, Ohio. Filed Mar. 19, 1923. Serial No. 5,506. Term of patent 7 years.



The ornamental design for a decanter as shown.

63,437. DECANTER. FREDERICK W. SCHWENCK, Cincinnati, Ohio. Filed Mar. 19, 1923. Serial No. 5,508. Term of patent 7 years.



The ornamental design for a decanter as shown.

63,438. BUCKLE FOR LADIES' BELTS. REUBEN SLOTE, Mount Vernon, N. Y., assignor to Slote & Schaffer, New York, N. Y., a Copartnership consisting of Reuben Slote and Jacob I. Schaffer. Filed Aug. 24, 1923. Serial No. 7,073. Term of patent 3½ years.



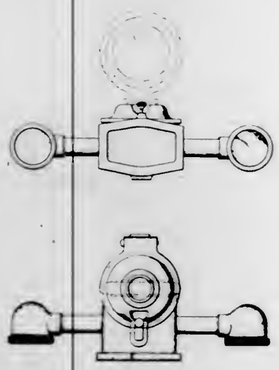
The ornamental design for a buckle for ladies' belts as shown.

63,439. BUCKLE FOR LADIES' BELTS. REUBEN SLOTE, Mount Vernon, N. Y., assignor to Slote & Schaffer, New York, N. Y., a Copartnership consisting of Reuben Slote and Jacob I. Schaffer. Filed Aug. 24, 1923. Serial No. 7,074. Term of patent 3½ years.



The ornamental design for a buckle for ladies' belts as shown.

63,440. FRONT DIRECTION SIGNAL FOR MOTOR VEHICLES. ARTHUR E. SPARROW, Chicago, Ill. Filed Feb. 23, 1922. Serial No. 839. Term of patent 3½ years.



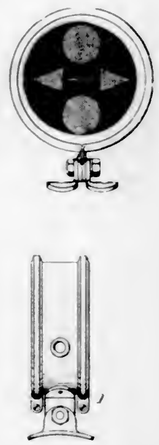
The ornamental design for front direction signal for motor vehicles as shown.

63,441. LAMP STANDARD. ADOLF STEFFEN, Pittsburgh, Pa., assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed May 12, 1923. Serial No. 6,144. Term of patent 7 years.



The ornamental design for a lamp standard, as shown.

63,442. AUTOMOBILE SIGNAL. PAUL A. STOVER, Racine, Wis., assignor to The Stover Signal Engineering Company, Racine, Wis., a Corporation of Delaware. Filed July 31, 1922. Serial No. 3,259. Term of patent 14 years.



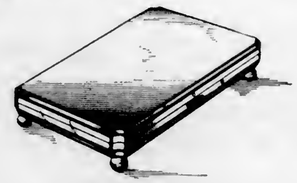
The ornamental design for an automobile signal, substantially as shown.

63,443. DIRECTION INDICATOR AND STOP LIGHT. WILLIAM A. STOWE, New York, N. Y. Filed Mar. 7, 1923. Serial No. 5,385. Term of patent 3½ years.



The ornamental design for a direction indicator and stop light.

63,444. DISPLAY BOX. GEORGE T. BATES, Elgin, Ill., assignor to Illinois Watch Case Company, Elgin, Ill., a Corporation of Illinois. Filed Dec. 23, 1922. Serial No. 4,694. Term of patent 3½ years.



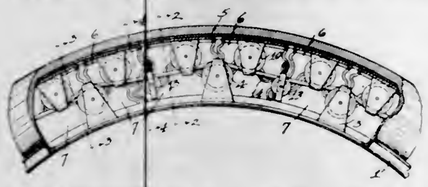


The ornamental design for a display box, substantially as shown.

PATENTS

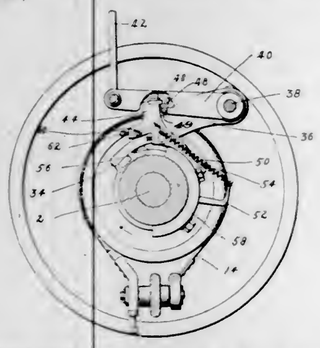
GRANTED DECEMBER 4, 1923.

1,475,925. SUSPENSION TIRE. FRANK W. ADSIT, St. Paul, Minn. Filed Oct. 18, 1919. Serial No. 332,083. 2 Claims. (Cl. 152—8.)



1. In a suspension tire the combination with a hollow carcass, of a cable positioned concentric therewith and within the hollow thereof, anti-friction supports positioned exteriorly of said cable and supporting the tread portion of said carcass, anti-friction members positioned within said cable and supported by the side walls of said carcass, whereby pressure exerted on the tread of said carcass may be transmitted through said cable to the side walls of said carcass.

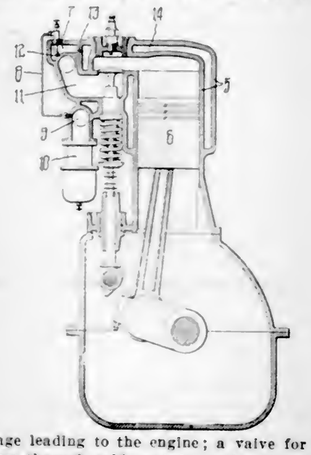
1,475,926. CLUTCH. MILTON H. BALLARD, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 19, 1920. Serial No. 352,518. 22 Claims. (Cl. 192—25.)



1. In apparatus of the class described, the combination with co-operating clutch members, of means for operating the clutch constituted by said members comprising a cam controlled member, a cam for operating the member in one direction, means for moving the cam comprising a latch mounted on the cam, and means, comprising a pin or stud mounted on the latch and arranged to become operative during movement of the latch for causing unlatching of said latch.

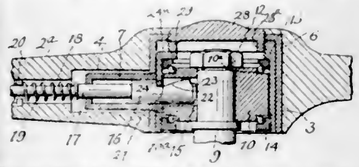
1,475,927. INTERNAL-COMBUSTION ENGINE. LLOYD BLACKMORE, Highland Park, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Mar. 22, 1920. Serial No. 367,859. 7 Claims. (Cl. 123—25.)

1. In combination in an internal combustion engine having an exhaust passage formed in the cylinder block thereof, a closed water containing chamber formed in said cylinder block and having a wall in common with said exhaust passage, and which chamber is in communication with the jacket space of the cylinder block through a restricted passage of comparatively small area; a conduit leading from said chamber and discharging into the



inlet passage leading to the engine; a valve for controlling the flow through said conduit; and a thermostat located within said chamber and which thermostat is operatively connected with said valve to control the same.

1,475,928. STEERING-WHEEL MECHANISM. ADELBERT E. BRONSON, Cleveland, Ohio. Filed Dec. 16, 1922. Serial No. 607,386. 8 Claims. (Cl. 70—129.)

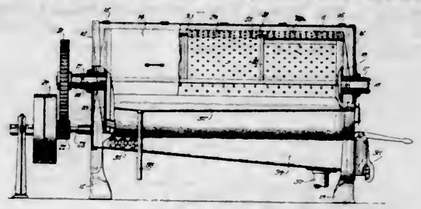


1. The combination with a steering shaft member of a steering wheel member said wheel being mounted for free rotation upon said shaft, a bolt carried by one of said members, the other of said members being provided with an opening in which said bolt may engage to secure the members to rotate in unison, a detent carried by the member carrying the bolt and movable when the bolt is withdrawn to disconnect said members, to engage said bolt to retain the same in retracted position.

1,475,929. MACHINE FOR WASHING EDIBLE ANIMAL TISSUES. HENRY B. BUCKHAM, Chicago, Ill., assignor to The Allbright-Nell Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 27, 1920. Serial No. 433,086. 4 Claims. (Cl. 146—200.)

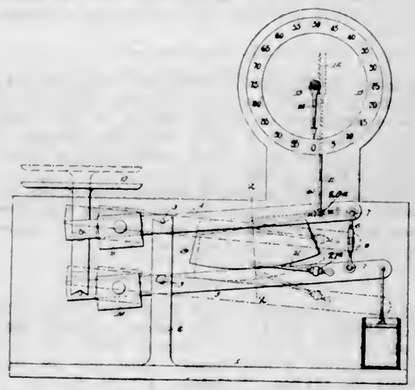
1. A machine for washing edible animal tissues, comprising in combination: a casing, a discharge trough communicating with the bottom of said casing, a drum revolubly mounted within said casing, said drum being provided with a removable section, whereby material may be deposited in the drum and by a subsequent rotary

movement of the drum discharged into said trough, and means located beneath said drum and within the upper end of said trough for cleansing said material during



the rotary movement of the drum, said cleansing means being further operable to discharge the washed material from said trough after it has been discharged from said drum.

1,475,930. SCALE. HUGH CAMERON, Brooklyn, N. Y., assignor, by mesne assignments, to Robert D. Kent, Passaic, N. J. Original application filed Nov. 2, 1917, Serial No. 199,842. Divided and this application filed Sept. 6, 1919. Serial No. 322,157. 15 Claims. (Cl. 265—70.)



1. A scale comprising a plurality of pivoted beam members, a weight carried by one of the members and having a rolling contact therewith, and means under control of the members for moving the point of contact toward or away from the fulcrum of the supporting member.

1,475,931. SNOW GUARD. ALBERT W. CAMPBELL, Hartford, Conn. Filed May 11, 1923. Serial No. 638,269. 4 Claims. (Cl. 108—27.)



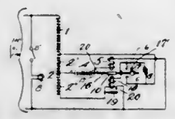
1. A snow guard comprising a base strip having at one end means for retaining the article in place, and having at the other end an upwardly extending tubular section formed of a strip of sheet metal, the ends of which are bent around and interlocked with the base section.

1,475,932. INK ERADICATOR. THOMAS W. CAPPON, Newark, N. J. Filed Dec. 15, 1921. Serial No. 522,692. 9 Claims. (Cl. 87—5.)

1. The process of eradicating ordinary inks from paper and other materials of the character described which consists in subjecting the ink line or spot to the action of an alkali hypochlorite and immediately decolorizing the resulting product by treating the same with an alkali phosphate.

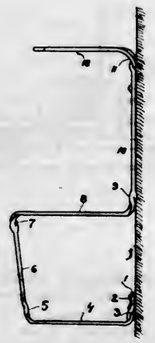
4. A single fluid eradicator comprising a mixture of an alkali hypochlorite with an alkali phosphate.

1,475,933. DERECTIFYING SYSTEM. LOUIS W. CARROLL, Riverside, Ill., assignor of one-half to Glenn Muffly, Cleveland, Ohio. Filed Nov. 3, 1919. Serial No. 335,488. 5 Claims. (Cl. 171—97.)



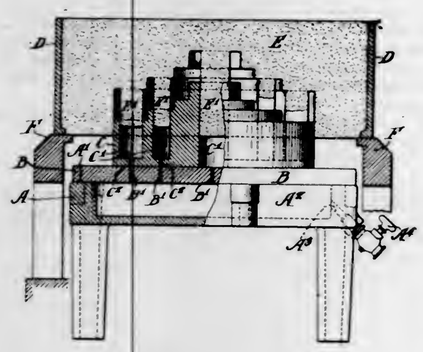
1. In a derectifying system of the character described, a battery, a periodic current generator operable on said battery, said generator including a transformer, a vibrating current interrupter and a relay normally connected in series with the line and said battery and capable of holding its armature actuated when periodic current is applied to its winding, said armature serving to close the transformer secondary across the line in operation.

1,475,934. MILK-BOTTLE HOLDER. ALEXANDER CODAIR, Peabody, Mass. Filed Dec. 15, 1921. Serial No. 522,695. 1 Claim. (Cl. 248—65.)



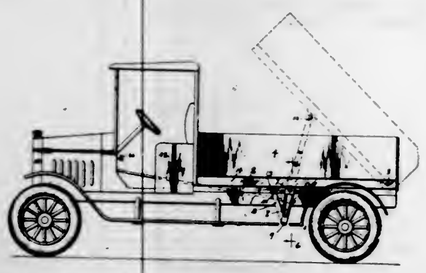
In a holder of the class described, a single strand of wire bent to form a loop, then bent at right angles to form a circular bottom, then bent to form a connecting link between the bottom and a round circular support for the center of the bottle, then bent to form another circular support, then bent to form a connecting link between this support and a support formed near the neck of the bottle, then bent to form an automatic grip-like support, made from the ends of the wire to hold the bottle firmly in place.

1,475,935. METHOD AND APPARATUS FOR FORMING SAND MOLDS. CHARLES WM. COLEMAN, London, England, assignor to The Tabor Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 2, 1922. Serial No. 591,741. 4 Claims. (Cl. 22—47.)



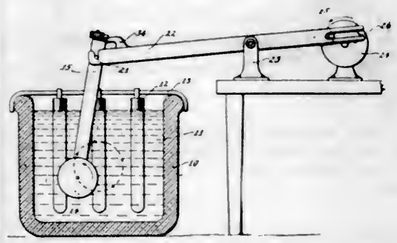
1. In the formation of sand molds by the compacting of sand over patterns and subsequently withdrawing the mold so formed from the pattern, the method of facilitating the withdrawal of the mold from the pattern which consists in forcing air under pressure through the pattern into contact with the formed face of the sand model.

1,475,936. TRUCK-BODY DUMPING MECHANISM. GEORGE R. COULS, Detroit, Mich. Filed Aug. 17, 1922. Serial No. 582,356. 3 Claims. (Cl. 298—21.)



1. In a truck body dumping mechanism, the combination with a vehicle frame, a body pivoted on the frame, an engine mounted on the frame, a countershaft, extending longitudinally of the body from the front end of the engine to the truck body, a clutch mounted on the front end of the countershaft, a gear loose on the countershaft and adapted to be connected thereto by the clutch, means operatively connecting the gear to the front end of the engine shaft, a transverse shaft journaled on the frame adjacent the body, cranks on the transverse shaft, links pivoted to the ends of the crank arms and to the body, a worm wheel mounted on the transverse shaft, a longitudinal shaft extending from the countershaft to the worm gear, a worm on the longitudinal shaft meshing with the worm gear, and a universal joint connecting the countershaft and longitudinal shaft.

1,475,937. PHONOGRAPH-RECORD MATRIX AND METHOD AND APPARATUS FOR PRODUCING SAME. JOHN THOMAS DANIELS, Newark, N. J., assignor to The Hanson & Van Winkle Co., Newark, N. J., a Corporation of New Jersey. Filed Sept. 30, 1919. Serial No. 327,471. 10 Claims. (Cl. 204—1.)

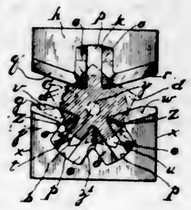


1. An electro-deposited matrix for phonographic disk records, the material of said matrix being of substantially uniform tension in all directions when the matrix surface is all in one plane, thereby avoiding a tendency to buckle.

1,475,938. METHOD OF COLORING CITROUS FRUITS. FRANK E. DENNY, Los Angeles, Calif., dedicated, by mesne assignments, to the citizens of the United States. Filed Mar. 1, 1923. Serial No. 622,156. 1 Claim. (Cl. 99—11.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

A new and useful method of coloring citrous fruits, consisting in bringing ethylene gas into contact with green citrous fruits, and maintaining that contact at a temperature as low as 55° F. and below 85° F.

1,475,939. APPARATUS FOR FORGING FIVE-POINT ROCK-DRILL BITS. JESSE DITSON, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 30, 1922. Serial No. 571,942. 3 Claims. (Cl. 76—5.)



1. Apparatus for forming a five-point rockdrill bit, comprising, in combination with a drill sharpener, removable upper and lower swaging dies, one die being movable to and from the other to effect the swaging and one of said swaging dies having a central vertically disposed longitudinal groove with flat sides and a rearwardly inclined end, separate forming surfaces on opposite sides of said centrally disposed groove, said separate surfaces being inclined at an acute angle to the vertical axis of said central groove, the other swaging die having two grooves disposed at an angle to each other, said grooves having sides and ends corresponding to the sides and ends of the groove in the first mentioned swaging die, separate forming surfaces in the second mentioned die disposed at a similar angle to

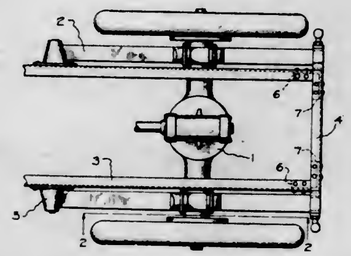
the vertical axes of the respective adjacent grooves, said first named and said last named opposing separate forming surfaces being oppositely inclined and adapted to act on opposite sides of a drill steel.

1,475,940. RAZOR HOLDER. WILLIAM DUBILIER, New York, N. Y., and WILLIAM S. MOUNTFORD, Dumont, N. J. Filed Dec. 5, 1919. Serial No. 342,814. 9 Claims. (Cl. 30—12.)



1. A razor holder comprising a plate having a transverse slot extending therethrough adapted to receive the cutting edge of a razor, stops respectively adjacent the ends of said slot to fix the position of the razor cutting edge with regard to the slot, a lug adjacent the upper edge of said plate adapted to engage the back of the razor blade, and means for exerting pressure laterally on the razor blade to hold the same against said plate and between the lug and said stops.

1,475,941. VEHICLE FRAME AND SPRING SUSPENSION. WILLIAM C. DURANT, New York, N. Y., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Oct. 25, 1919. Serial No. 333,195. 5 Claims. (Cl. 267—54.)

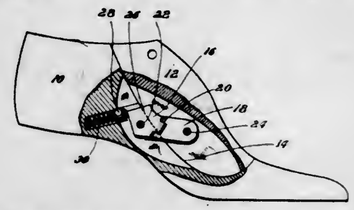


1. In a vehicle, a frame including a side bar and an end cross bar both of channel cross-section, a spring supporting the frame at one side, and a bracket riveted to said bars and having portions disposed in the channels thereof, and means extending from the bracket and forming a connection for the end portion of the spring.

1,475,942. ELECTRIC RESISTANCE ELEMENT. FRANK A. FAHRENWALD, Cleveland Heights, Ohio. Filed Feb. 6, 1922. Serial No. 534,345. 3 Claims. (Cl. 219—76.)

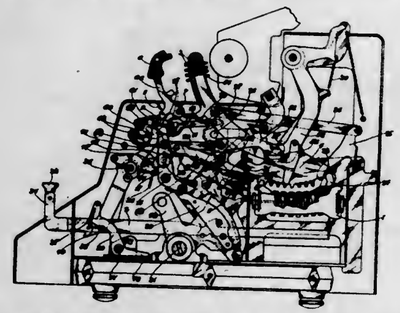
1. An electrical resistance element made of an alloy of iron from about 16% to about 20% of chromium and about 1% to about 3% of manganese.

1,475,943. BLOCK LAST. GUY BEARCE FITZ, Auburn, Me., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me., a Corporation of Maine. Filed Nov. 12, 1921. Serial No. 514,663. 6 Claims. (Cl. 12—137.)



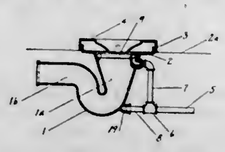
5. A block last having registering grooves in the body and block and a link lying in the grooves and pivoted to the two said last parts, the link having a hinge with its axis lying in the plane of the grooves to permit rocking of the block as it is inserted in a shoe.

1,475,944. ADDING, CALCULATING, AND RECORDING MACHINE. ALEXANDER F. W. GROGEL and BRUCE H. TINGLEY, Norwood, Ohio, assignors to The Dalton Adding Machine Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 11, 1920. Serial No. 402,830. 30 Claims. (Cl. 235—60.)



1. In a calculating machine, the combination with a units adding pinion, a rack meshing with said pinion in all operations of the pinion and being movable in one direction to operate the pinion in all adding operations thereof, a pivoted abutment for limiting movement of said rack in said direction to prevent transfer operation of said rack and pinion, a lever for displacing said abutment to permit said rack to move to operate said pinion in a transfer operation, and means for recording an indication of the fact that said operation had been performed.

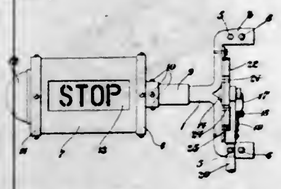
1,475,945. FLUSHING CUSPIDOR. HARRY G. GRUBBS, Pittsburgh, Pa. Filed Jan. 13, 1923. Serial No. 612,518. 8 Claims. (Cl. 4—40.)



1. A flushing cuspidor comprising a bowl arranged to be disposed below the level of a floor, a stationary fitting in the wall of said bowl and having a duct extending therethrough, a water supply conduit connected to said fitting, a hollow flushing ring so supported in said fitting

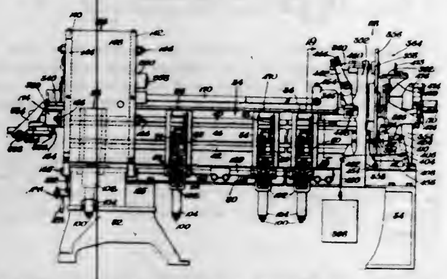
that it may be swung into a position concentric with the interior surface of said bowl or swung upwardly therebeyond, lugs extending vertically upward from said bowl, and a removable cover member arranged to be positioned on the bowl by said lugs.

1,475,946. SIGNAL. HENRY HAFER, St. Louis, Mo. Filed Mar. 14, 1921. Serial No. 452,155. 2 Claims. (Cl. 177—327.)



1. A signal of the character described, comprising a rigid horizontal arm, a case rigidly supported by the arm and having its outer end at right angles to its forward and rear sides, a semispherical, outwardly projecting window closing the outer end of the case, and being visible from the front and rear and serving as a parking light, windows in the forward and rear sides of the case, a cylinder rotatively mounted in the case and having its outer end adjacent to the first-named window open, signals on the periphery of said cylinder, a lamp within the cylinder for illuminating the first-named window whenever the lamp is lighted and for illuminating said signals whenever said signals are opposite said forward and rear windows, a lever for turning the signals to and from different adjusted positions to place different signals opposite said windows or out of line with said windows, and an electric circuit controlled by said lever for illuminating said lamp.

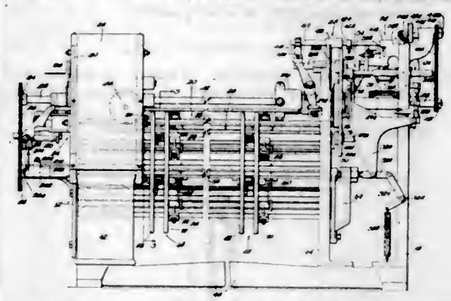
1,475,947. HEEL PRESS. FRED V. HART, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 30, 1919. Serial No. 314,219. 63 Claims. (Cl. 12—42.)



1. The combination with a heel-holding device, of means for receiving similarly positioned heels and presenting them successively in different positions to said device, and means for loading the heels into the device in the order and position presented.

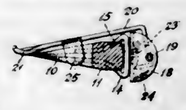
1,475,948. METHOD OF AND MACHINE FOR HANDLING HEELS. FRED V. HART, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 31, 1920. Serial No. 434,237. 54 Claims. (Cl. 12—42.)

1. The method of assembling pieces of shoe stock which comprises arranging the pieces in repeated like series in each of which the pieces are arranged in predetermined relation, and in consecutively distributing the pieces in regular order and one at a time in stacked relation at a number of successive stations in rotation that exceeds



by one the number of pieces in a series, or any multiple thereof, to progressively produce at each station a stack of pieces of stock in which the same repeated serial relation of pieces obtains.

1,475,949. SAFETY RAZOR. CECIL L. HORNING, Little Valley, N. Y. Filed Nov. 4, 1920. Serial No. 421,640. 3 Claims. (Cl. 30—12.)



3. A safety razor comprising a handle, a blade connected therewith, a carrier slidably mounted upon the back of said blade, a guard located upon said carrier and pivotally movable about an axis parallel with the cutting edge of the blade toward the same to an operative position in contact with said blade adjacent to said cutting edge and away from the latter to an inoperative position out of contact with said blade and a lug carried by said guard and partaking of the pivotal movements thereof, said lug, in the operative position of said guard, projecting over the inner end edge of said razor blade to maintain said carrier and guard against withdrawal from said blade when the guard is in said operative position in contact with said blade.

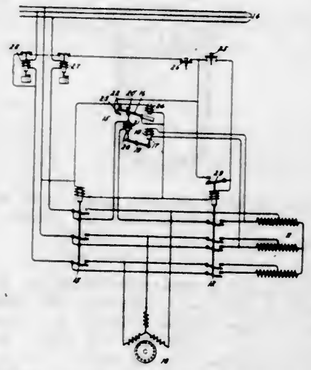
1,475,950. BOARD-FEEDING DEVICE FOR RESAWS. CHARLES JOHNSON, Minneapolis, Minn. Filed Apr. 5, 1922. Serial No. 549,668. 6 Claims. (Cl. 214—1.)



1. A board-feeding device comprising a table, a feed device movable longitudinally of said table, and a deflecting bar obliquely secured to said table in a position diverging from the receiving portion of said feed device and terminating immediately adjacent to said device, whereby only the board crowded onto said device and carried by said device may be fed beyond said deflecting bar.

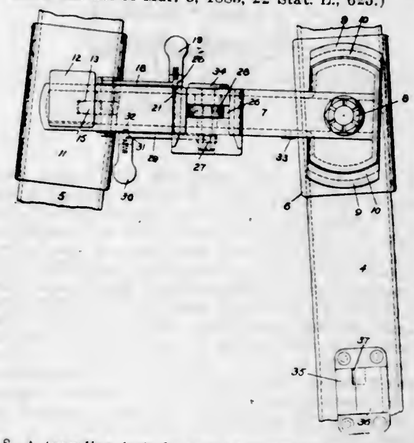
1,475,951. ELECTROMAGNETIC CONTROL. BENJAMIN W. JONES, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 5, 1921. Serial No. 449,788. 13 Claims. (Cl. 172—289.)

1. Motor controlling means comprising two electromagnetic switches, a relay having a switch member biased to and mechanically held in a position to energize the first of said switches, the said relay having electro-responsive means for releasing the switch member and operating the same to a second position to energize the second of said switches, an electromagnet forming a part of the said relay for holding the switch member in the second position, and connections whereby the said electroresponsive means is energized to release and operate the said switch member to the second position after the first of said switches closes.



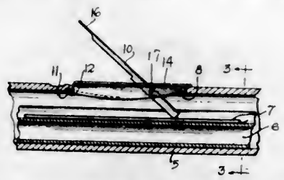
6. Means for connecting a translating device to a source of supply comprising two electromagnetic switches having their windings connected together in series relation, a switch member having two definite positions for energizing one of said electromagnetic switches in each position, and connections whereby the said switch member in each position operatively energizes the winding of one of said switches from the source of supply and short circuits the winding of the other switch and in the intermediate position maintains one of said switches in the operated position by an energizing circuit including the winding of the other of said switches.

1,475,952. TRAVELING LOCK FOR GUN CARRIAGES. BRYAN P. JOYCE, Davenport, Iowa. Filed Sept. 6, 1923. Serial No. 661,266. 8 Claims. (Cl. 89—40.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



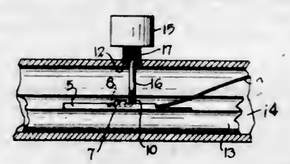
8. A traveling lock for gun carriages of the split trail type, including a supporting member adapted to extend from one trail member to the other, a socket on said supporting member, a lug on the gun adapted to enter said socket, said gun lug provided with a recess and locking means on said supporting member movable into said recess to lock said lug in said socket.

1,475,953. LEVER FOR SELF-FILLER FOUNTAIN PENS. DAVID KLEIN, New York, N. Y., assignor to Marx Finstone, Brooklyn, N. Y. Filed Feb. 10, 1923. Serial No. 618,198. 2 Claims. (Cl. 120—46.)



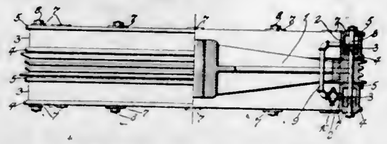
1. The combination with a fountain pen comprising a slotted barrel, of a flanged saddle adapted to rest in said slot, said flanged portion resting on the exterior edges of said slot to hold the saddle in position, a lip on the underside of said saddle adapted to engage the interior wall of said barrel, a lever, and a single pin passing through the walls of the barrel, saddle and lever, said pin acting in conjunction with said lip to prevent any movement of said saddle.

1,475,954. SELF-FILLING FOUNTAIN PEN. DAVID KLEIN, New York, N. Y., assignor to Marx Finstone, Brooklyn, N. Y. Filed Feb. 10, 1923. Serial No. 618,199. 4 Claims. (Cl. 120—46.)



1. A fountain pen comprising a barrel, a sack adapted to contain ink within said barrel, a presser bar adapted to collapse said sack, a spring member associated with said barrel body and said presser bar, a retainer piece adapted to hold said spring to said presser bar, and an upturned portion on said retainer piece.

1,475,955. WATER-COOLED BRAKE RING. LOUIS A. KNOPP, St. Louis, Mo., assignor to Broderick & Bascom Rope Co., St. Louis, Mo., a Corporation of Missouri. Filed Oct. 24, 1922. Serial No. 596,555. 9 Claims. (Cl. 188—264.)

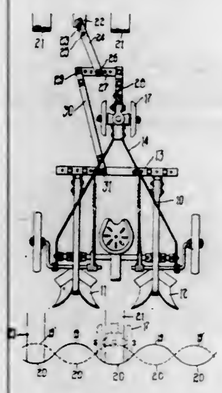


5. A hollow brake ring comprising inner and outer walls, a radial wall uniting the inner and outer walls, a wall in connection with the outer wall extending toward and terminating at a distance from the inner wall, and spaced webs uniting said last named wall with said inner wall.

1,475,956. DRAFT CONNECTION. ALVARO S. KROTZ, Janesville, Wis., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Jan. 5, 1920. Serial No. 349,598. 7 Claims. (Cl. 97—180.)

1. The combination with a draft device and an implement to be drawn thereby, said implement comprising a pivoted front frame having guiding means adapted

to travel in a furrow, of draft connections between said draft device and said implement including a connection to said frame whereby a forward pull may be exerted



thereon, said connections being constructed and arranged to cause said guiding means to travel in a furrow offset from the central line of draft of said draft device.

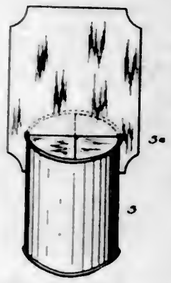
1,475,957. SPRAYING DEVICE. JOSEPH F. LEMONS, Cedar Hill, Tenn., assignor, by direct and mesne assignments, to William L. Pitt, Cleveland, Ohio. Filed Apr. 22, 1920. Serial No. 375,761. 12 Claims. (Cl. 43—148.)



1. A portable device of the class described comprising a casing having an inlet and a discharge opening, a fan member journaled in said casing, means for rotating said fan member, a reservoir, a pipe connecting said reservoir and one of said openings, and means for suspending said device from the operator whereby substantially one-half of the weight of said device will be positioned forwardly and the other half rearwardly of the operator.

1,475,958. PLACARD. HARRY V. MARSH and HENRY J. STEPHENS, Chicago, Ill. Filed Feb. 23, 1923. Serial No. 620,764. 2 Claims. (Cl. 40—7.)

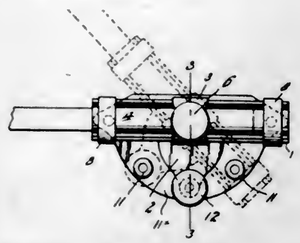
1. An advertising device for use upon a flanged can or the like and provided from a blank having a semicircular extension portion slit to provide equal sized tabs adapted to be folded in opposite directions, and having additional extension portions with parallel interior edges cut away adjacent said tabs to provide an internal contour coinciding with the external contour of the said can.



1,475,959. DOUBLE-SUPERPHOSPHATE PROCESS. HERBERT H. MEYERS, Pittsburgh, Pa., assignor to Armour Fertilizer Works, Chicago, Ill., a Corporation of New Jersey. Filed Dec. 21, 1922. Serial No. 608,351. 9 Claims. (Cl. 71—7.)

1. The process of producing double super-phosphate comprising forming a slurry by adding ground phosphate-rock to commercial dilute phosphoric acid the strength of which is insufficient to effect complete reaction without the application of heat, and completing the chemical reaction by the application of heat and simultaneously drying the slurry to a solid product by such heat.

1,475,960. FLAG HOLDER. JOHN T. MOODY, Tilden, Ill. Filed Mar. 29, 1923. Serial No. 628,409. 1 Claim. (Cl. 248—37.)



In a flag holder, the combination of a bracket plate having at one side a series of sockets arranged in the arc of a circle and also having a socket in the center of said circle, a plate of channel form in cross-section having a central yoke and end yokes and also having an offset side portion in substantial parallelism with the bracket plate, a pintle carried by said channel plate and disposed in the central socket of the bracket plate, a screw threaded through the offset side portion of the channel plate and adapted to be removably arranged in one of the sockets of the arcuate series, a screw threaded through the central yoke of the channel plate, and a clamping plate connected in swivelled manner to the screw and opposed to the concave side of the channel plate.

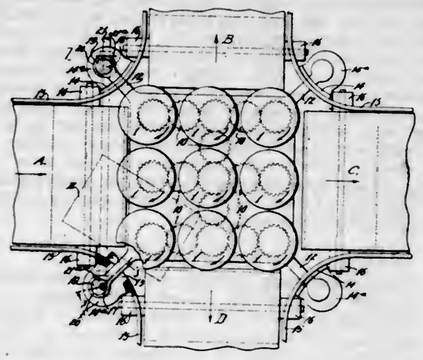
1,475,961. TOOL HANDLE. MORRIS STANLEY NEAL, Collinsville, Conn. Filed Aug. 31, 1921. Serial No. 497,092. 6 Claims. (Cl. 30—9.)

1. A tool handle comprising a metallic shank member, a gripping member disposed at one side of said shank, one of said members having a raised portion at its side edges fitting into a depression adjacent the side



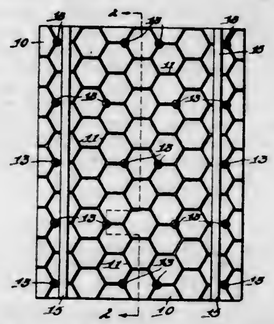
edges of the other member, the inner portions of the adjacent surfaces of said members being spaced apart, and means for binding said members together.

1,475,962. TRANSFER DEVICE FOR CONVEYERS. SAMUEL OLSON, Chicago, Ill., assignor to Samuel Olson & Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 9, 1922. Serial No. 587,045. 15 Claims. (Cl. 198—81.)



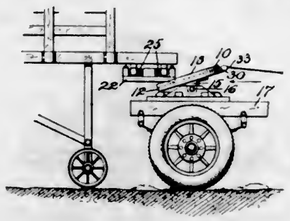
1. In combination with a plurality of conveyers arranged with adjacent termini, a transfer device comprising a group of driving members interposed between said termini and all mounted to rotate about axes slightly inclined from strictly vertical direction for exposing upwardly a limited portion of the circular driving surface of each member which extends in a plane substantially perpendicular to the axis of rotation of the member.

1,475,963. BED FOR CYLINDER PRESSES. AUGUST F. OSTERLIND, St. Paul, Minn. Filed Dec. 27, 1921. Serial No. 524,829. 2 Claims. (Cl. 101—382.)



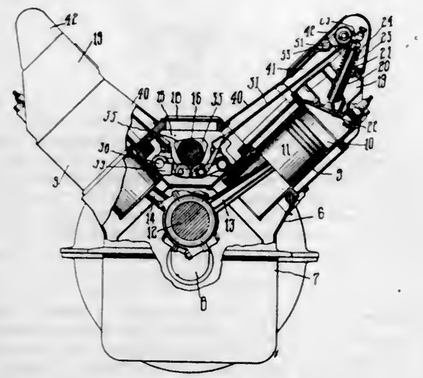
1. A steel bed for a printing press comprising, a plate having plain upper and lower surfaces, a separable reinforcing web formed in the shape of a honey comb, a plurality of bosses formed on said web and means adapted to secure said plate to said bosses.

1,475,964. COUPLING FOR TRACTORS AND TRAILERS. MICHAEL OZIMEK, Newark, N. J. Filed June 28, 1922. Serial No. 571,533. 6 Claims. (Cl. 280—33.1)



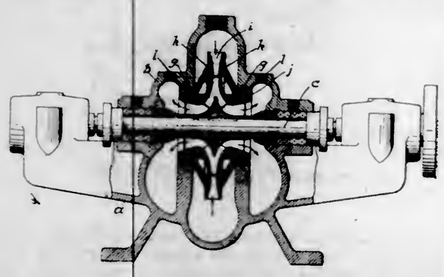
1. A coupling comprising two members slidable one on the other, a king bolt in one member and adapted to be projected into the other and act as a central pivot, and a latch to hold the king bolt retracted and disposed so that the latch releases the bolt when said other member is in position, said latch being also disposed so that it can hold the king bolt retracted after the members are assembled.

1,475,965. VALVE-OPERATING MECHANISM FOR INTERNAL-COMBUSTION ENGINES. LAFE V. PENCE, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Mar. 12, 1920. Serial No. 365,291. 11 Claims. (Cl. 123—55.)



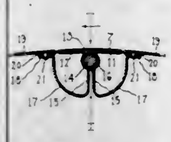
1. In an internal combustion engine, a cylinder head having a passage; a reciprocating valve carried by said head and adapted to control the flow through said passage, and which valve is provided with a stem extending therefrom; a cross head carried by said stem and having a bearing surface; a bracket carried by said head; a shaft carried by said bracket and which shaft extends at right angles to said valve stem; a roller supported by said shaft and the periphery of which is in engagement with the bearing surface aforesaid of said cross head; a pull rod the upper end of which is connected with said cross head, and which pull rod acts at an angle to the path of movement of said valve stem in transmitting movement thereto; a rotating valve operating shaft; a yoke with which the lower end of said pull rod is connected, and which yoke is provided with an abutment located beneath said valve operating shaft; an oscillating arm pivotally supported at a point located to one side of said valve operating shaft and upon the side thereof opposite to that at which said pull rod and yoke are located, and the free end of which arm is pivotally connected with said yoke; and a cam carried by said valve operating shaft and adapted to engage said abutment.

1,475,966. WATER TURBINE. ARVID PETERSON, Trenton, N. J., assignor to De Laval Steam Turbine Company, Trenton, N. J., a Corporation of New Jersey. Filed July 29, 1922. Serial No. 578,298. 5 Claims. (Cl. 253—103.)



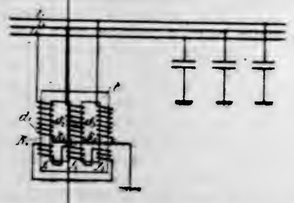
1. As an article of manufacture, a casing adapted to support interchangeably a stationary impeller ring or a diffusing ring adapted for cooperation with a turbine wheel.

1,475,967. HINGE STRUCTURE FOR AUTOMOBILE HOODS. JOHN P. ROBERTSON, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 8, 1919. Serial No. 316,123. 8 Claims. (Cl. 180—69.)



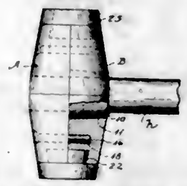
6. In an automobile hood of the class described, a plate extending along and forming the top and central portion of the hood; two cover sections disposed one upon each side of said plate; and a single hinge connection located beneath and extending throughout substantially the entire length of said plate and whereby said cover sections are pivotally supported from said plate.

1,475,968. ALTERNATING-CURRENT LINE. REINHOLD RÜDENBERG, Berlin-Grunewald, Germany, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany, a German Corporation. Filed Dec. 2, 1920. Serial No. 427,929. 7 Claims. (Cl. 171—119.)



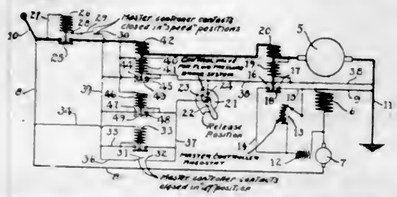
1. An alternating current power line comprising in combination a plurality of choking coils interlinked with each other, one coil being provided for each phase of the line, a multiple shank iron frame having said coils placed on its shanks, and having said shanks saturated at normal voltage beyond the bend of their characteristic curve, primary windings disposed on the shanks of said frame and being connected with the different phases in star connection, and secondary windings on said shanks connected in delta connection.

1,475,969. HAMMER. CHARLES F. SCHROEDER and AUGUST A. QUEDENSLEY, Chicago, Ill. Original application filed Jan. 19, 1922, Serial No. 530,471. Divided and this application filed Oct. 25, 1922. Serial No. 596,727. 1 Claim. (Cl. 195—36.)



In a hammer, the combination of a head and a handle, said head comprising an outer body part and an inner body part, one of said parts having a boss extending therefrom and there being a handle receiving hole through said part and boss, said boss being tapered on the outside, said other part having a hole for receiving the handle and said hole being tapered to snugly fit said boss when the parts are brought together, semi-circular dovetail pockets in the ends of each part adapted to form circular dovetail pockets when the parts are brought together, and faces having dovetail extensions received in said dovetail pockets when said parts are brought together to be thereby securely locked in said parts, said parts except for said holes and said boss and said pockets being of semi-circular cross section throughout whereby to form the head of circular cross section.

1,475,970. CONTROL MEANS FOR ELECTRICALLY-DRIVEN MECHANISM. LEIGH J. STEPHENSON, Chicago, Ill., assignor to B. V. Decker, Leigh J. Stephenson, George B. Burrage, William T. Fenton, and Lynn A. Williams, trustees, all of Chicago, Ill. Filed Feb. 20, 1920. Serial No. 360,131. 17 Claims. (Cl. 172—179.)

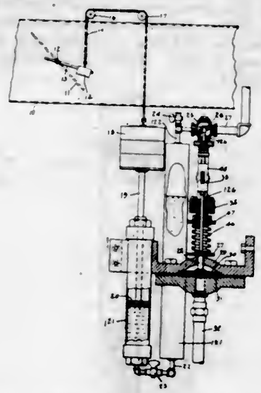


8. The combination with a vehicle provided with mechanical brakes, of a motor for driving said vehicle, a field winding for said motor, means for controlling the current through said field winding to cause said motor to function either as a motor or as a generator driven by the momentum of said vehicle, means for limiting the regenerated current to a predetermined maximum value, and means for causing said mechanical brakes to operate in conjunction with, or independently of said motor for retarding said vehicle, the means for controlling the regenerative action of said motor being independent of said last named means.

1,475,971. AUXILIARY FLUID-PRESSURE CONTROL. COLE STICKLE, Indianapolis, Ind., assignor to Open Coil Heater & Purifier Company, Indianapolis, Ind., a Corporation. Filed July 15, 1921. Serial No. 484,909. 3 Claims. (Cl. 236—85.)

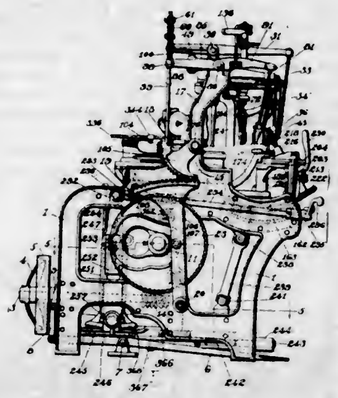
2. Mechanism of the kind described having a vertical cylinder, a piston therein for operating any desired means, a displacement tank located vertically beside said cylinder and with its lower end in communication with the lower end of the cylinder for supplying liquid under pressure thereto for elevating the piston, means for supplying steam or water under pressure to the upper end

of said displacement tank for forcing the liquid therefrom into the cylinder, a pilot valve in said steam or air line, a leak valve in the steam or air line between the upper part of said tank and the pilot valve, means actuated by fluid under pressure for opening said pilot valve, an adjustable weighted lever for closing said pilot valve



when the fluid pressure is relatively low, an adjustable spring acting independently in said lever but cooperating therewith for resisting the operating movement of said fluid-actuating means, and means for returning the piston to normal position after the pilot valve is closed and forcing the liquid back into the displacement tank.

1,475,972. MACHINE FOR WORKING UPPERS OVER LASTS. EDWARD A. STIGGINS, deceased, late of Beverly, Mass., by Margaret B. Stiggins, executrix, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 14, 1916, Serial No. 109,306. Renewed Sept. 16, 1922. Serial No. 588,731. 185 Claims. (Cl. 12—4.)



1. In a machine of the character described, the combination of shoe supporting means, pulling-over means organized and arranged to pull over a shoe while held by the supporting means in one location, lasting means for lasting an end of the shoe while sustained by the supporting means in another location in which it is tipped lengthwise from its first location to cause the toe to point in a different relation to the horizontal, and connections between the machine frame and shoe supporting means permitting the shoe to be shifted from pulling-over to lasting position.

1,475,973. PROCESS OF ELECTRODEPOSITION. BERTRAND S. SUMMERS, Port Huron, Mich. Filed Dec. 9, 1922. Serial No. 605,983. 11 Claims. (Cl. 204—1.)

1. In a process of electrodeposition, passing an electric current through a bath containing in solution a compound of the metal to be plated to the object to be plated connected as the cathode from an anode of the plating metal and an anode of the metal to be plated.

1,475,974. BELT BAND. RAYMOND L. TORREY, Attleboro, Mass., assignor to F. L. Torrey & Company, Attleboro, Mass., a Copartnership composed of Fred L. Torrey and Joseph Kerkhoff. Filed May 25, 1923. Serial No. 641,407. 2 Claims. (Cl. 24—3.)



1. A belt band for watch chains formed by folding a strip of metal upon itself to form spaced-apart front and back plates, one end being slotted and turned inwardly and the opposite end being provided with a narrow tongue extending through said slot and having an eye into which a watch chain may be connected.

1,475,975. AMUSEMENT DEVICE. VERLE V. VAN NATTAN and JAMES M. PARIS, San Francisco, Calif. Filed Apr. 13, 1922. Serial No. 552,218. 5 Claims. (Cl. 46—56.)

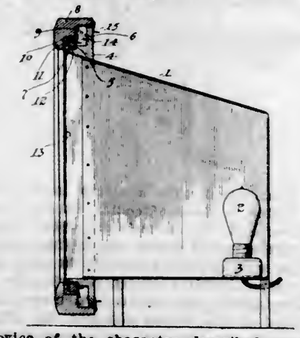


1. A device such as described comprising a casing having a weight therein for maintaining said casing in a substantially vertical position; pockets formed within the interior of said casing, having value indicating indicia thereon; and objects adapted to be indiscriminately arranged in said pockets by a rotative movement of said casing.

1,475,976. PROCESS OF MAKING FERROPHOSPHORUS. JOSEPH WARNER, Nashville, Tenn. Filed July 16, 1923. Serial No. 651,975. 4 Claims. (Cl. 75—45.)

1. The process of producing ferrophosphorus in the blast furnace comprising charging fuel and iron ore in the top of the furnace and feeding phosphate bearing material through the tuyères into the smelting zone.

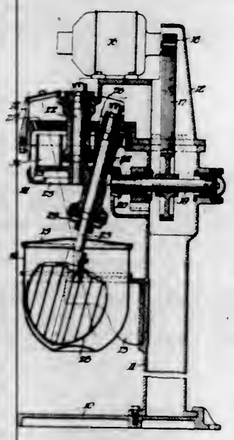
1,475,977. ILLUMINATED SIGN. CHARLES WEST, Chicago, Ill. Filed June 25, 1923. Serial No. 647,644. 5 Claims. (Cl. 40—132.)



3. A device of the character described comprising a lamp housing and a lamp therein, a stationary frame secured to said housing having a projecting flange, a remov-

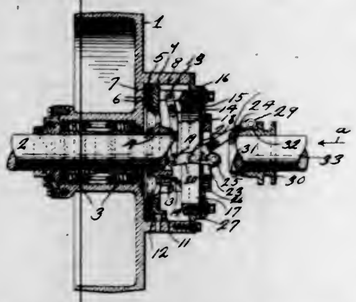
able frame and means for clamping the same on said stationary frame, there being a rabbet and bead in said removable frame, and a frame and clamping means therefor for securing a paper diaphragm to said bead, said flange being inside of said bead and adapted to stretch the diaphragm after being secured to said bead.

1,475,978. BEATER. FREDERICK WESTERMAN, Chicago, Ill. Filed Dec. 8, 1922. Serial No. 605,548. 4 Claims. (Cl. 259—102.)



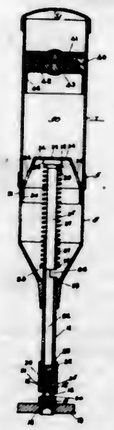
1. A beating apparatus comprising a receptacle having a cover provided with a central opening, a beater shaft set oblique to the vertical and entering the receptacle through the opening in the cover, a paddle on the shaft and in the receptacle, and means above and independent of the cover for supporting and rotating the shaft on its axis and also for bodily moving the shaft in a conical orbit having its apex substantially at the opening in the cover.

1,475,979. CLUTCH-OPERATING MECHANISM. CLARENCE G. WOOD, Muncie, Ind., assignor to Hoosier Clutch Company, Muncie, Ind., a Corporation of Indiana. Filed July 18, 1921. Serial No. 485,637. 3 Claims. (Cl. 192—99.)



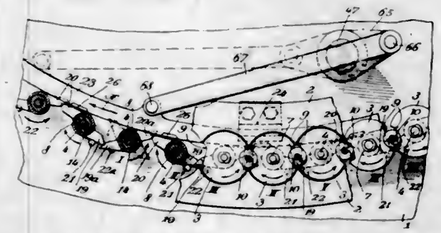
1. The combination with a clutch, said clutch comprising a casing, a shaft extending axially through the casing, driven and driving members within said casing, levers for clutching said driven and driving members, said levers having arms extending towards the shaft and terminating in curved portions concentric with the shaft, of means for actuating said levers, said means comprising levers pivoted to the casing adjacent the sides of the shaft, longitudinally extending arms carried by said last named levers, link connections between said arms and the ends of the concentric portions of the first mentioned levers, said casing-pivoted levers extending away from the casing and longitudinally in relation to the shaft, and a cone slidably mounted on the shaft and cooperating with the said last named levers.

1,475,980. LUBRICATING APPARATUS. OSCAR ZERK, Cleveland, Ohio, assignor to The Allyne-Zerk Company, Cleveland, Ohio. Original application filed Nov. 21, 1922, Serial No. 602,465. Divided and this application filed Aug. 2, 1923. Serial No. 655,294. 7 Claims. (Cl. 184—105.)



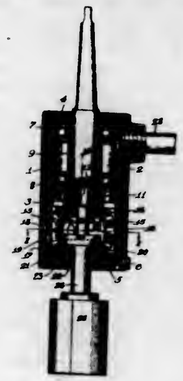
1. In a lubricating apparatus, the combination with a lubricant receptacle element of a lubricant reservoir for supplying lubricant thereto, means to put the lubricant in the reservoir under pressure, a lubricant feeding nozzle element, said reservoir communicating lubricant under pressure thereto, said receptacle element and said nozzle element having cooperative substantially non-compressible contact faces and openings therethrough, one of said contact faces having a concavely spherical surface, the other contact face having a dirt cutting circumferential edge portion adapted to be embraced within the spherical surface of the other face and providing a solid contact therewith when the nozzle is pressed against the receptacle element from any one of a plurality of angularly different directions, to make a sealed, substantially non-yielding, lubricant conducting, connection between the face openings.

1,475,981. BRAIDING MACHINE. ERNST BÄCHLI, Lauffohr, near Brugg, Switzerland. Filed Oct. 13, 1922. Serial No. 594,398. 4 Claims. (Cl. 96—11.)



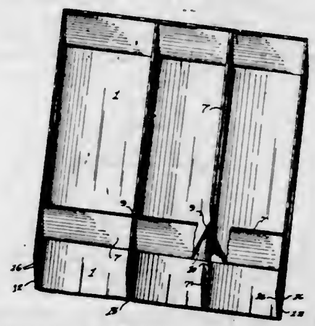
1. A braiding machine comprising in combination, a base plate, a plurality of drivers rotatably mounted on said base plate and spaced around a circle, a cam on each driver, a roller cooperating with said cam, a spring pressing said roller against said cam and adapted to cause thereby a turning motion of the driver, oscillating means adapted to impart to each driver of a group comprising every alternate driver an intermittent turning motion in one direction and to impart to each driver of a group comprising every driver intermediate to the drivers of the first group an intermittent turning motion in the other direction, said turning motion being completed to a desired extent by the action of said cam, roller and spring arrangement, a jacquard mechanism, and means operated by said jacquard mechanism to cause a number of individual drivers to come into operative connection with said means for imparting intermittent rotation to the drivers, the selection of the operative drivers being controlled by a pattern chain of the jacquard mechanism.

1,475,982. ATTACHMENT FOR DRILLING MACHINES. JOSEPH F. BUHR, Detroit, Mich. Filed July 18, 1921. Serial No. 485,774. 2 Claims. (Cl. 10—137.)



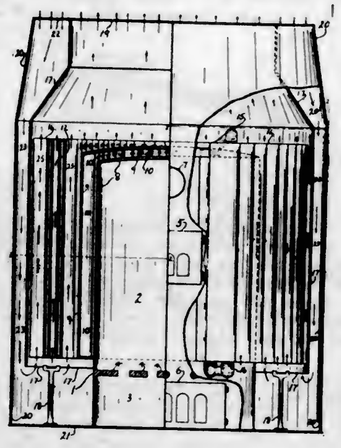
2. The combination of a socket member, a socket in said member, an adapter in said socket, anti-frictional bearings on said socket to resist end and lateral thrust of said socket, a housing supported from said socket member, a spindle extending into said housing and adapted to be driven by said adapter, and a reversing gear mechanism in said housing adapted to cause said spindle to be driven in a reverse direction by said adapter.

1,475,983. COMPARTMENT TRAY. CHARLES C. CASEY, Detroit, Mich., assignor to Work-Organizer Specialties Company, Detroit, Mich., a Corporation of Michigan. Filed May 23, 1921. Serial No. 472,026. 7 Claims. (Cl. 229—27.)



5. A tray having two-ply diverging partitions, and an independent one-piece pyramidical shaped coupling member having a plurality of wings set in said partitions.

1,475,984. HEATING SYSTEM. FREDERICK CLARE, Preston, Ontario, Canada. Filed Jan. 16, 1923. Serial No. 613,039. 2 Claims. (Cl. 126—101.)



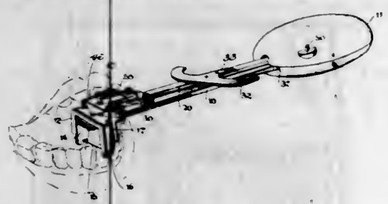
1. A heating system comprising a casing open at its upper end and closed at its lower end, a water jacketed furnace within the casing, the outer wall of the jacket being provided with corrugations and constituting a heat radiating element, a down flow air passage within the casing, and an up flow air passage about the aforesaid radiating element, the lower ends of the passages being in communication with each other.

1,475,985. SEPARATING DEVICE. THOMAS M. COFFMAN, Rialto, Calif., assignor of one-half to W. J. Rickerman, Rialto, Calif. Filed July 5, 1922. Serial No. 572,987. 2 Claims. (Cl. 31—85)



1. A separator comprising a flexible disk having a central portion of uniform thickness and having its margin thinned gradually by reducing its upper portion uniformly to the edge, reinforcing means for the central portion of the disk, retaining means passing through the reinforcing means and through the disk and provided with an eye at the center of the disk, and a handle stem pivotally connected with said eye.

1,475,986. DENTAL THREAD HOLDER. COSBY CRITTENDEN COOKE, Logan, W. Va. Filed Dec. 16, 1922. Serial No. 607,344. 7 Claims. (Cl. 132—92.)



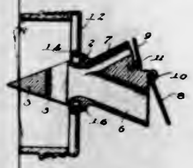
6. A dental thread holder comprising a shank, a thread holder pivoted to the forward portion of said shank, a stem mounted on the shank and having a head, there being a gear and rack connection between said pivoted thread holder and said head whereby the rocking of said stem will turn said thread holder, and means whereby said stem may be manually rocked.

1,475,987. SINGLE-TRANSMISSION TELEGRAPH SYSTEM. WILLIAM A. CUSHING, Newburg Heights, Ohio, assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Jan. 27, 1919. Serial No. 273,370. 2 Claims. (Cl. 178—2.)



1. In a signaling system, a transmission line, a receiving means inductively related thereto, a pole changer for transmitting signals to said line, indicating means and transmitting means included in a local circuit with said pole changer, said local circuit being under the control of said receiving means, means to prevent said pole changer from being actuated by said receiving means, and means to prevent said receiving means from being actuated when said pole changer is actuated by said transmitting means.

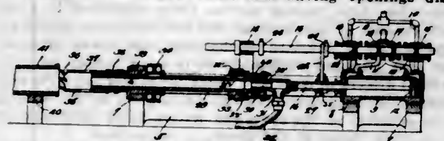
1,475,988. POURING SPOUT. VICTOR DIEU, Mineral Wells, Tex. Filed Sept. 6, 1922. Serial No. 586,487. 7 Claims. (Cl. 221—23.)



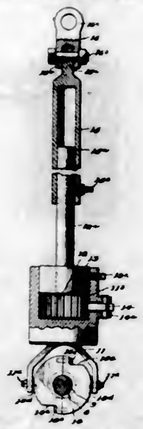
1. A pouring spout made of a single piece of material comprising a head at one end for puncturing a metallic cover and having an opening extending transversely, a passage in communication with the opening for the egress of liquid, another passage in communication with the opening for the ingress of air, and means associated with the respective passages adapted to close them when in a non-pouring position.

1,475,989. CORE REMOVER. HARRY E. EASTERDAY, Martinsburg, W. Va., assignor of one-half to William H. Kennedy, Bedington, W. Va. Filed Sept. 9, 1922. Serial No. 587,131. 1 Claim. (Cl. 255—22.)

In a machine of the class described, a frame, a cylinder at one end of the frame, a rod carrying a piston movable in the cylinder, a coupling supported at one end of the rod and carrying an extension, a hollow shaft associated with the coupling, means for securing the hollow shaft to the coupling to permit of rotary movement of the hollow shaft, a hollow bit mounted on the free end of the hollow shaft and having openings disposed adjacent to the outer end of the hollow shaft, means supported by the hollow shaft and disposed adjacent to one end of the bit, for brushing the surface of the article under treatment and means for rotating the shafts.

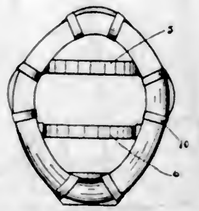


1,475,990. LAPPING MACHINE. HERMAN A. ERICKSON, Bakersfield, Calif. Filed Aug. 2, 1921. Serial No. 489,160. 8 Claims. (Cl. 74—14.)



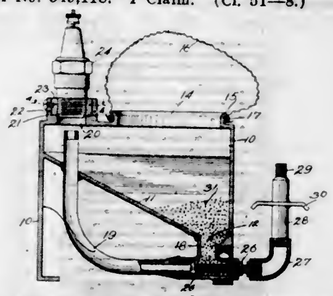
1. A lapping machine comprising a supporting frame, a drive shaft mounted thereon, a crank disk mounted on and rotated by said shaft, a crank pin secured on said disk and having an angularly disposed circumferential groove formed therein and therearound, a collar loosely mounted and confined in said groove, a connecting rod coupled to and reciprocated by said collar, and means operated by said collar and groove to rotate said connecting rod in one direction upon rotation of the crank disk and pin.

1,475,991. BASEBALL MASK. HUGO GOLDSMITH, Cincinnati, Ohio, assignor to The P. Goldsmith Sons Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 19, 1923. Serial No. 619,859. 2 Claims. (Cl. 2—193.)



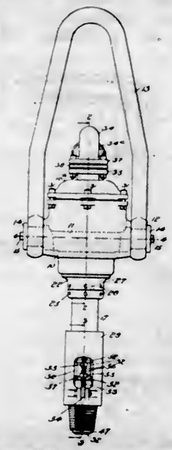
1. A base ball mask comprising a metallic frame, a shock absorbing sponge rubber ring for engagement upon the head of a wearer and for spacing the frame from a wearer's head, and attachment means for removably mounting the ring upon the frame.

1,475,992. SAND-BLAST SPARK-PLUG CLEANER. CHRIS HANSON, Fort Dodge, Iowa. Filed Apr. 3, 1922. Serial No. 549,118. 1 Claim. (Cl. 51—8.)



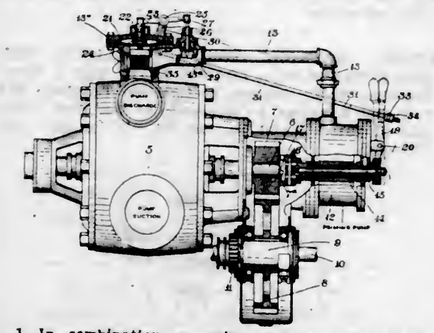
A sand blast spark plug cleaner including a hopper for containing sand or the like having a discharge opening therein, a spark plug holder mounted on said hopper for receiving a spark plug, the top of said hopper being open, a cloth sack over said opening, a T fitting connected to said discharge opening into which the sand will fall by gravity, a nozzle, the discharge end of which projects beyond the passage way through which the sand enters, mounted in said T-fitting, said nozzle being in communication with a source of air under pressure, a pipe connecting the T fitting to the hopper at a point directly below the spark plug holder, the parts being so arranged that the nozzle will create a suction in the T fitting and thus draw the sand into the pipe by suction, and force the sand through the pipe into the interior of the spark plug, the sand dropping back into the hopper and the air escaping through the cloth sack.

1,475,993. HYDRAULIC SWIVEL. HU M. HARRIS and VICTOR W. ZILEN, Chattanooga, Tenn., assignors to Lucey Manufacturing Corporation, Chattanooga, Tenn., a Corporation of Tennessee. Filed Feb. 20, 1922. Serial No. 537,867. 16 Claims. (Cl. 255—25.)



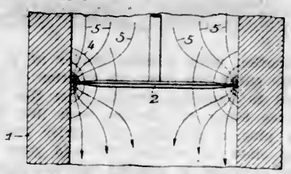
1. In a hydraulic swivel, the combination of a swivel body, a swivel stem journaled therein, a conductor pipe, a supply pipe, said conductor pipe extending through the stem and body into the supply pipe, packing between the swivel body and conductor pipe, packing between the conductor and supply pipes, said packings being spaced vertically apart, and a laterally disposed deflector interposed between the two packings whereby water escaping through the upper packing will be deflected outwardly away from the lower packing.

1,475,994. MEANS FOR PRIMING PUMPS. HOMER M. HAVENS, Columbus, Ohio, assignor to The Seagrave Company, Columbus, Ohio, a Corporation of Ohio. Filed Feb. 16, 1923. Serial No. 619,349. 4 Claims. (Cl. 103—203.)



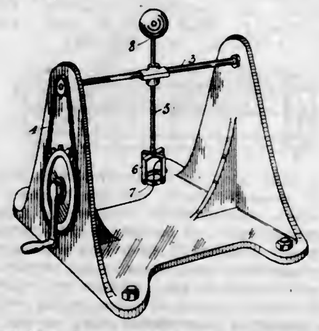
1. In combination, a main pump and its shaft, a priming pump therefor having a priming connection therewith and having a shaft, means for driving the impeller shaft of the main pump, a clutch means for operably connecting the shaft of the main pump with the priming pump shaft, manually operable means for engaging said clutch means to connect the main pump shaft with the priming pump shaft for priming the main pump, and automatically operable means for disengaging said clutch means when the main pump is primed.

1,475,995. CHEMICAL CONVERSION OF SUBSTANCES. LEONHARD HEIS and HUBERT JEZLER, Zurich, Switzerland. Filed Mar. 21, 1923. Serial No. 626,658. 19 Claims. (Cl. 204—31.)



1. The process of effecting chemical action of substances that are in a gaseous or vaporous state or in suspension, which comprises forcing the substances to be treated through a high tension electrical field without causing shock ionization and rupture of said field.

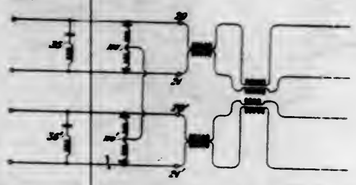
1,475,996. APPARATUS FOR CASTING DENTAL PLATES IN METAL. HERBERT LESLIE HOBDAY and FREDERICK WILLIAM NUNN, Melbourne, Victoria, Australia. Filed May 9, 1922. Serial No. 559,642. 1 Claim. (Cl. 22—65.)



In a machine for casting dental plates, a basket on the end of a rigid rod secured to and depending from

a rotatable spindle, a ring secured to the lower part of the basket sides, bayonet joints in the ring, a socket plate arranged in and detachably connected to the ring, and a hollow flanged member fitting within the socket plate and arranged to accommodate investment pots of varying diameters.

1,475,997. NETWORK FOR NEUTRALIZING THE SUSCEPTANCE OF A LOADED LINE. RAY S. HOYT, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 9, 1919. Serial No. 309,634. 17 Claims. (Cl. 178—45.)



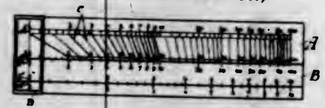
15. In combination, a plurality of transmission lines associated with each other in tandem, said lines having different ratios of reactance to impedance, and means shunted across said lines at their junction, for substantially equalizing said ratios.

1,475,998. SAFETY DEVICE. HARRY E. ISKOW, Detroit, Mich. Filed Dec. 2, 1921. Serial No. 519,538. 1 Claim. (Cl. 293—34.)



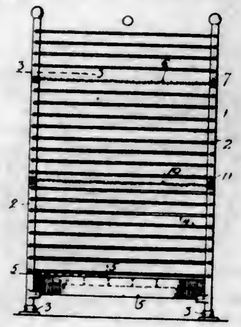
In combination with a main fender of a vehicle a pair of links suspended from the interior of the fender and adapted to hang by gravity from the fender for some distance below the fender, each link being provided with pins, a plurality of barrier strips having longitudinal slots to receive the said pins, the said strips being arranged in parallel relation and equal in length to the approximate length of the fender and adapted to be closely associated within the fender when the links are swung inwardly thereof, and manually operated means to normally maintain the links within the fender, and to permit them to drop when the said means is actuated.

1,475,999. SLIDE RULE WITH LOGARITHMICAL GRADUATIONS. PAUL JARAY, Friedrichshafen, Germany, assignor to the Firm Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Filed June 28, 1920. Serial No. 392,570. 3 Claims. (Cl. 235—70.)



1. In a slide rule, the combination with a relatively stationary graduated ruler, and two adjacent parallel sliding rulers, longitudinally displaceably mounted on such stationary ruler, of oppositely and alternately arranged equally numerically subdivided scale sections indicating respectively proportions of gas density and air density, and connecting lines between the corresponding oppositely situated values of these density proportions, pressure indicating logarithmic scales on one of said sliding rulers and volume indicating logarithmic scales on the other sliding ruler.

1,476,000. GAME. SHOZABURO KAWAI, New York, N. Y. Filed Nov. 3, 1921. Serial No. 512,431. 2 Claims. (Cl. 46—56.)

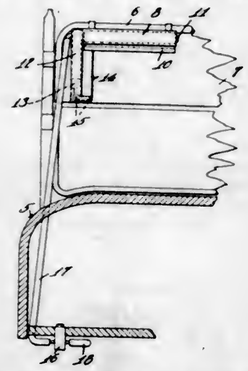


1. A game comprising a base or tray on which a ball is adapted to be received and having means for holding the ball in various designated positions, and means for causing the ball to take an irregular course in passing to said base, including a plurality of resilient screens arranged one above the other and on which the ball is adapted to be dropped, said screens having a number of apertures through any of which the ball may pass in its course to said base.

1,476,001. INVESTMENT MATERIAL. ARTHUR MARSHALL MCINTOSH, Sydney, Australia. Filed July 15, 1922. Serial No. 575,386. 3 Claims. (Cl. 22—188.)

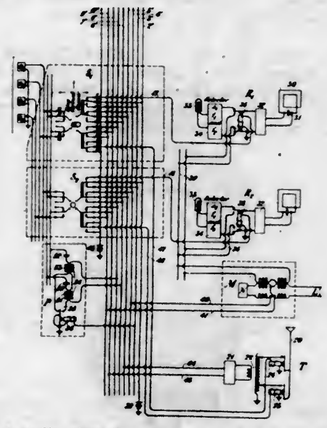
1. An investment material having an ingredient which expands and alumina which contracts at high temperature, said ingredients being mixed in such proportions that the expansion of the one compensates for the contraction of the other so that there is no appreciable change in the volume of the mass.

1,476,002. GLARE SCREEN. ALVA MCPHAILL and HUGH MCPHAILL, Visalia, Calif. Filed Apr. 6, 1922. Serial No. 550,112. 2 Claims. (Cl. 296—97.)



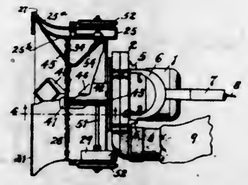
1. A windshield wiper including a housing, means for positioning the housing over the upper edge of a windshield, a cylinder supported adjacent to the housing, a piston movable in the cylinder, a curtain adapted to be wound within the housing, flexible means for connecting the curtain and piston, whereby movement of the piston results in a relative movement of the curtain, to move the curtain with respect to the windshield, a pipe having communication with the cylinder, and a valve member for controlling the passage of air to and from the cylinder.

1,476,003. RADIOSIGNALING CALL SYSTEM. DE LOSS K. MARTIN, Orange, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 18, 1922. Serial No. 582,729. 8 Claims. (Cl. 250—6.)



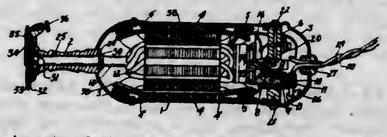
7. In a radio signaling system, a plurality of stations arranged for intercommunication, calling means for establishing channels between one station and any other, comprising a given combination of voice frequencies on a plurality of different carrier frequencies.

1,476,004. VACUUM CLEANING DEVICE. WILLIAM V. ORR, Cleveland, Ohio. Original application filed Apr. 19, 1912, Serial No. 691,966. Patent No. 1,210,522, dated Jan. 2, 1917. Divided and this application filed Nov. 25, 1916. Serial No. 133,340. 24 Claims. (Cl. 15—60.)



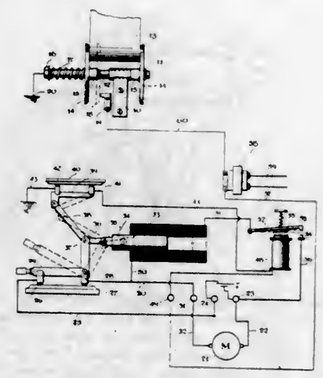
1. In a vacuum cleaning apparatus for floors and the like, in combination, a head having a downwardly opening mouth, a rotatable brush supported within said mouth, means for revolving said brush, and a shield interposed between said brush and one of the walls of said mouth to form a narrow intake opening, the lower edge of said shield terminating at a higher level than the lips of said mouth.

1,476,005. MOTOR. JULIUS C. OSHEA, Anaheim, Calif., assignor of one-half to Oscar Wingard, Los Angeles, Calif. Filed Aug. 28, 1919. Serial No. 320,530. 8 Claims. (Cl. 172—36.)



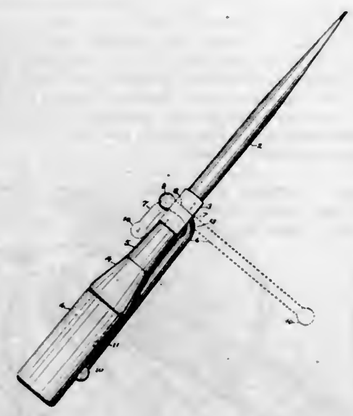
6. A motor device having a field magnet comprising a series of independent core laminations, field coils mounted thereon, and common means for securing said coils in operative position and for maintaining said laminations in alignment.

1,476,006. AUTOMATIC STOP FOR MOTION-PICTURE MACHINES. MILTON EDWIN PHIMISTER, Green Bay, Wis. Filed Aug. 16, 1921. Serial No. 493,407. 9 Claims. (Cl. 88—17.)



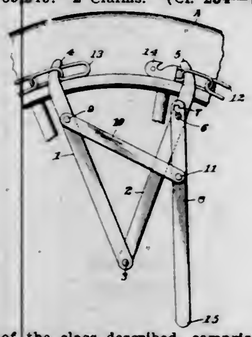
1. An automatic stop for motion picture machines, comprising in combination, a movable element positioned adjacent the film at a predetermined point during the unwinding thereof, means for pressing said element against the film, means whereby an electric circuit will be closed by said rotatable element when said film ceases to pass the predetermined point, an electric motor for unwinding said film, an electric circuit for said motor, means adapted to be operated for opening said motor circuit upon the closing of the first named electric circuit, and said means being also adapted to simultaneously open the first named circuit.

1,476,007. TOOL. INGWALD F. RUDE, Chicago, Ill. Filed Sept. 13, 1921. Serial No. 500,354. 1 Claim. (Cl. 145—66.)



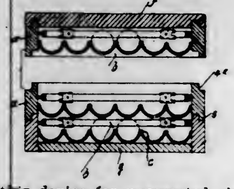
The combination with a screw-driver having a laterally extending opening therethrough, of a lever having a pivot portion engaged with said opening and arranged at right angles to the body of said lever, said pivot portion and body being rotatably and angularly movable in said opening, and a recess in the handle of said screw-driver in which said lever is normally held substantially parallel with the blade and handle of said screw-driver.

1,476,008. CHAIN-TIGHTENER TOOL. WILLIAM C. SEARLES, Newport, Nebr., assignor of one-half to Frank L. Hutton, Newport, Nebr. Filed June 19, 1922. Serial No. 569,249. 2 Claims. (Cl. 254—78.)



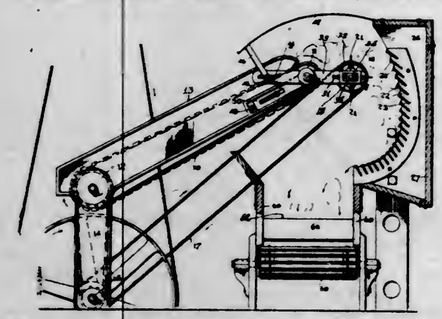
1. A tool of the class described, comprising a pair of arms pivotally connected at one end, an operating handle pivoted to one of the arms, and a link pivoted to the other arm and to the operating handle, the pivot points of the link and handle being such that, when the arms are brought together the pull will be on the center of the pivots and the parts will stay in such position even when a pull is being exerted on the outer ends of the arms.

1,476,009. TRANSPORTING DEVICE FOR UNASSORTED CIGARS WHICH ARE NOT YET PACKED. DAVID SCAS, Mannheim, and HEINRICH JOCHER, Lampertheim, near Mannheim, Germany. Filed July 26, 1922. Serial No. 577,679. 5 Claims. (Cl. 217—13.)



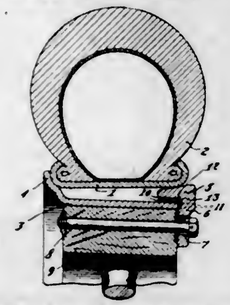
1. Transporting device for unassorted cigars and cigarillos which are still to be packed consisting of a convenient number of transporting frames—which possess only little depth and which have each a corrugated bottom, separating rails movably guided in said transporting frames, a transporting box in which the frames are placed the one upon the other so that the cigars stored between the superposed frames are held in position by the corresponding corrugated bottoms.

1,476,010. COTTON CLEANER. EDWARD PADELFORD TAFT and GEORGE BARTON, Augusta, Ga. Filed Aug. 12, 1921. Serial No. 491,849. 5 Claims. (Cl. 19—80.)



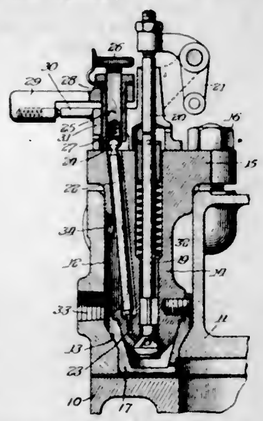
2. A cotton cleaner comprising a cotton conveyor, a seed and dirt remover mounted on the conveyor and having an inclined elevator portion in the path of travel of the cotton and an apron arranged beneath the upper discharge end of said inclined elevator portion to receive the dirt and seeds dropped therefrom, and suction means to pick up the cotton as it leaves the upper end of said inclined portion, there being a vertical connecting portion between the inclined portion and the apron.

1,476,011. SHIM PLATE FOR DEMOUNTABLE RIMS. HARRY JOSEPH HICK, Alliance, Ohio, assignor to The Hykon Manufacturing Company, Alliance, Ohio, a Corporation of Ohio. Filed Apr. 26, 1920. Serial No. 376,546. 3 Claims. (Cl. 301—10.)



1. A shim plate for a demountable wedge on the rim of a wheel, said shim plate having a flange on each side of the wedge for engaging the edge of the rim of the wheel and abutting the side of the wedge.

1,476,012. FUEL-SUPPLY VALVE. RASMUS M. HVID, Chicago, Ill. Filed Sept. 1, 1921. Serial No. 497,780. 4 Claims. (Cl. 123—33.)

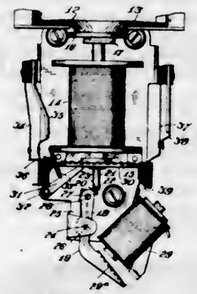


1. In an internal combustion chamber of the type in which liquid fuel is supplied for combustion purposes, the combination of a cylinder, a valve adapted to be seated in said cylinder and provided with a reduced intermediate portion, said cylinder being provided with inlet and outlet ports communicating with the space formed by said reduced portion whereby liquid fuel may be caused to circulate around said valve body.

1,476,013. AUTOMATIC SWITCH. FREDERICK C. HOLTZ, Springfield, Ill., assignor to Sangama Electric Company, Springfield, Ill., a Corporation of Illinois. Filed Mar. 8, 1920. Serial No. 364,099. 1 Claim. (Cl. 200—98.)

An electric switch comprising a solenoid, a rotatable core movable longitudinally therein, a ratchet disc secured to and moving with said core, a rocking pawl

mounted on a stationary support adjacent to said disc and operatively engaging the same, said pawl being arranged to effect the rotation of said disc when said core is moved



longitudinally in one direction, and a spring connected with the solenoid and with said pawl for holding said pawl in operative engagement with said disc notwithstanding longitudinal movement of said core.

1,476,014. BRIDGE FOR PIANOFORTES AND LIKE STRINGED MUSICAL INSTRUMENTS. JESSE GEORGE JONES, East Ham, England. Filed Dec. 2, 1922. Serial No. 604,471. 3 Claims. (Cl. 84—212.)



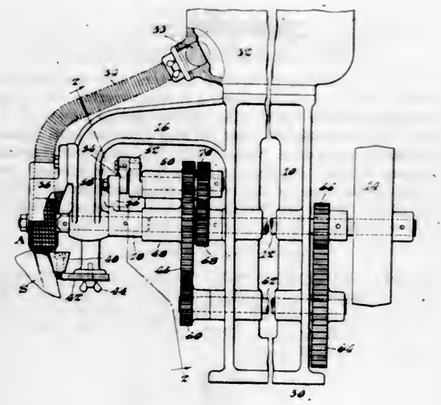
3. A bridge for pianofortes and like stringed musical instruments having a longitudinal channel in its under face terminating short of the ends, and having cylindrical passages bored into the body of the bridge through and perpendicular to the under face, said passages terminating short of the upper face of the bridge and being placed into communication with atmosphere by means of holes in the side walls of the bridge.

1,476,015. COATING APPARATUS. GIDEON J. JULIAN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 18, 1920. Serial No. 404,373. 20 Claims. (Cl. 91—49.)

3. In a fluid-applying apparatus, an applying member consisting of a spring having its convolutions provided with transverse fluid-carrying depressions, and means for supplying fluid to the applying member.

9. In a coating apparatus, a movable applying member, means for advancing said member, and means for alternately accelerating and retarding said member in its advance.

19. In a foxing-cementer for shoes having seams extending across the foxing area, an applying member rotatable over said foxing area, and means acting during the rotation of the member for turning it in opposite directions over the seams.

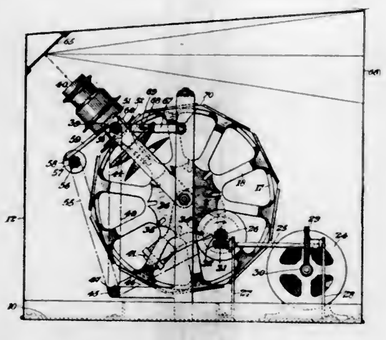


20. In a coating apparatus, a movable applying member, means for moving the applying member, and means for periodically changing the speed of said member.

1,476,016. COMPOSITION OF MATTER FOR COATING SURFACES. CHARLES A. KEEDWELL, New York, N. Y. Filed June 2, 1922. Serial No. 565,435. 1 Claim. (Cl. 134—45.)

A composition of matter for coating surfaces, comprising sodium silicate twenty per cent, a three per cent solution of alum, sixty per cent, sugar syrup, eighteen per cent, alcohol, two per cent, and a pigment of a desired color to render the same of a consistency to be spread with a brush or the like.

1,476,017. PICTURE-PROJECTING APPARATUS. MAXIMILIAN KLAIBER, Hackensack, N. J., assignor of one-half to Arthur W. Glenk, New York, N. Y. Filed Feb. 8, 1922. Serial No. 534,852. 12 Claims. (Cl. 88—27.)



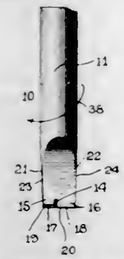
1. In a picture projecting apparatus, a revoluble conveyor adapted to carry a plurality of picture slides and to be adjustable on the axle on which it revolves, picture projecting devices, and means for adjusting the picture projecting devices as a unit about the axis of the said revoluble conveyor.

1,476,018. GARTER FASTENER. MAX J. LIEBENSTEIN, Chicago, Ill., assignor to A. Stein & Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 23, 1923. Serial No. 633,863. 3 Claims. (Cl. 241—6.)



1. In a fastening device for garters and the like, the combination of a headed stud, a fabric covering having an aperture through which the stud projects, an eyelet secured to the fabric covering in said aperture and loosely embracing the stud, a clasp adapted to detachably engage the stud between its head and the eyelet, and means connected to the base of the stud so as to withstand lateral pull of the clasp on the stud and hold the stud out of contact with the eyelet.

1,476,019. CUTTING TOOL. WILLIAM LOWRY, Newark, N. J., assignor of one-third to Paul Landemare, Newark, N. J., and one-third to Robert S. Blair, Stamford, Conn. Filed Apr. 26, 1922. Serial No. 556,596. 14 Claims. (Cl. 29—103.)



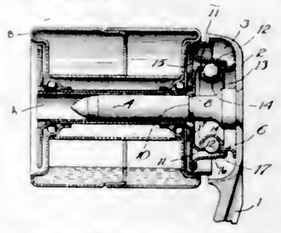
1. A rotary metal cutting tool having a main body portion adapted to form a shank at one end thereof and being formed at the other end thereof into an axially extending cutting member of a cross section of substantially parallelogram form, said extension being substantially centrally slotted transversely to provide two substantially oppositely disposed cutting members.

1,476,020. PUMP. VICTOR H. PALM, Butler, Pa. Filed Apr. 15, 1922. Serial No. 552,935. 14 Claims. (Cl. 103—192.)



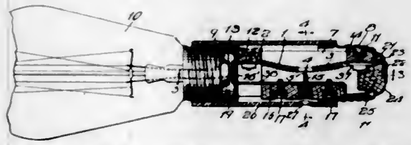
1. In a pump, the combination of a working barrel, a standing-valve, a pumping piston comprising oppositely operating valve heads, a perforated pipe on which said valve heads are slidably mounted, valve seats on said pipe, vertically extending ports formed in said valve heads communicating with the interior of said perforated pipe and normally closed by said valve seats, a stationary valve head in said barrel, means for admitting fluid from the well through said last-named valve head into the working barrel, and a valve in said last-named valve head for controlling the admission of fluid to said working barrel.

1,476,021. MEANS FOR LOCKING YARN CARRIERS UPON THEIR SUPPORTS. BURT A. PETERSON, Rockford, Ill., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed Sept. 14, 1921. Serial No. 500,528. 13 Claims. (Cl. 242—130.)



11. The combination of an arm, a spindle rigidly secured to the arm, a housing surrounding the lower portion of the spindle, said housing having an opening, a spring-actuated latch element projecting partially through said opening, and a yarn carrier adapted to be mounted upon the spindle and having an annular member surrounding the housing and arranged to be engaged by the latch element, the latter serving to hold the yarn carrier against the housing.

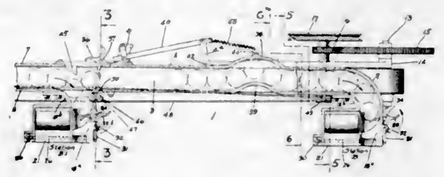
1,476,022. THERMODYNAMIC SWITCH. JAMES W. PHELPS, Chicago, Ill. Filed July 14, 1920. Serial No. 396,128. 1 Claim. (Cl. 200—122.)



A flashing electric connection comprising a cylinder of insulating material provided at one end with a screw socket and at the other end with a screw plug, a thermo electric switch within the cylinder comprising a metallic bar rigidly mounted at its ends and curved laterally between its ends, a heating coil wound around said bar, one end of the coil connected to one end of the bar, a strap connection member clamped to said end of the bar and extended to form the center contact for said plug, a rigid metallic bar opposed to said curved bar, an adjusting contact screw mounted in said rigid bar opposite to the middle portion of said curved bar for making and breaking connection therewith, the opposite end of said coil connected to said rigid bar, said rigid bar being extended at one end to form the center contact of said socket and metallic means connecting the shell of the socket with the shell of the plug.

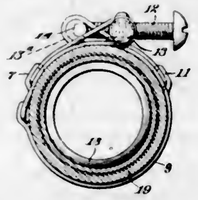
1,476,023. MACHINE FOR FEEDING AND DISTRIBUTING CONTAINERS. MORTON F. PHELPS, Little Rock, Ark., assignor to Phelps Manufacturing Company, Little Rock, Ark., a Partnership consisting of Frank Phelps and Morton F. Phelps. Filed Sept. 30, 1921. Serial No. 504,300. 15 Claims. (Cl. 198—83.)

1. The combination, in a machine of the class described, with a traveling conveyer arranged to receive articles to be distributed, of a plurality of chutes leading from said conveyer and located at different stations along the same, means arranged to receive articles from each chute, and means located at each station for closing the



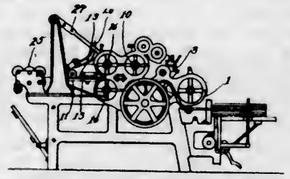
passage to the station chute when articles have accumulated in excess of a predetermined number in the receiving means.

1,476,024. HOSE CLAMP. WALTER VAN E. THOMPSON, Los Angeles, Calif. Filed Jan. 17, 1921. Serial No. 437,652. 1 Claim. (Cl. 24—19.)



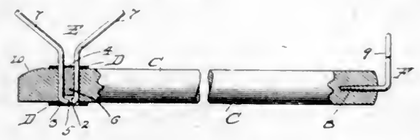
A hose clamp comprising a strip of sheet metal having a longitudinal aperture therein and a tongue projecting into the aperture and a transverse aperture near the tongue; a pierced rod having a transverse threaded hole therein, said strip being bent around said rod and having the ends secured together by having the tongue bent around the end; a second and longer and narrower strip of sheet metal having a longitudinal aperture in one end thereof and a tongue projecting into the aperture, said last strip being of a width to pass through the transverse aperture in the first strip; a second rod having a pocket in one side thereof, said apertured end of said last strip being bent around said last rod and having the end secured to the other part by having the tongue bent around the end, the unapertured end being secured to the first strip by being passed through the transverse aperture and bent around; and a threaded bolt passing through said first rod and having one end adapted to pass into the pocket of the second rod.

1,476,025. BAG-MAKING MACHINE. JACOB VANDENBERG, Wyoming, Ohio, assignor to The Security Bag Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 18, 1922. Serial No. 588,878. 4 Claims. (Cl. 93—8.)



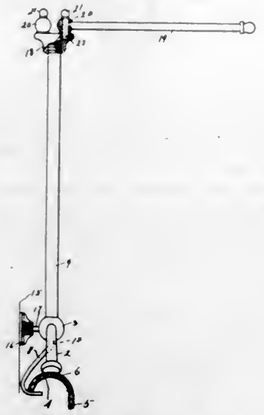
1. In a bag bottoming machine, the combination with a shaft and a conveying mechanism driven in the same direction, a bottom creasing knife mounted on said shaft, and adapted to form the side crease of the final fold of the bag bottom at one end of the bag, and a punch carrier adjustably mounted on said shaft, and having punches therein to form holes in the bag at the desired position therein at the other end of the bag.

1,476,026. CABLE TIGHTENER. FRANK W. BARBER, Chicago, Ill. Filed Aug. 28, 1922. Serial No. 584,718. 5 Claims. (Cl. 24—71.2.)



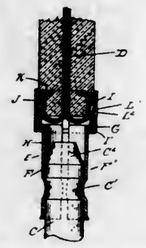
1. A cable tightener comprising a handle bar having an opening therethrough, a wire bent between its ends and located in said opening, the ends of the wire projecting beyond one end of said opening and being spread apart to form a cleat and means on the bar at a point remote from the cleat adapted to engage a cable after the slack therein has been taken up by the cleat.

1,476,027. TOWEL RACK. WESLEY H. BAUCK, Camden, N. J. Filed Sept. 29, 1922. Serial No. 591,258. 3 Claims. (Cl. 45—32.)



1. In a towel rack, a body, legs for supporting said body, an attaching member having a portion passing through said body, means to adjust said attaching member and a standard carrying arms and detachably connected to the body so as to enclose the adjusting means.

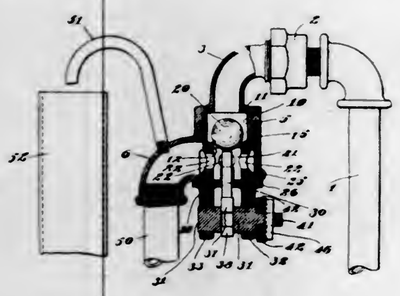
1,476,028. ELECTRICAL CONNECTER FOR SPARK PLUGS. JOSEPH BERGE and LOUIS B. BERGE, Flint, Mich., assignors to A. C. Spark Plug Company, Flint, Mich., a Corporation of Michigan. Filed Apr. 11, 1919. Serial No. 289,269. 3 Claims. (Cl. 173—269.)



2. In an electrical connecter, the combination with an insulated conductor, of a pair of complementary segments having shank portions overlapping the end of the insulation, the opposite ends of said segments forming an ex-

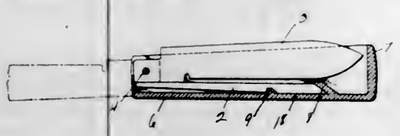
pansible tubular socket, said segments being of a contour, to produce rigidity throughout their lengths, and means for clamping said shank portions upon the insulation of said conductor, relative yielding of the segments being provided for by the resiliency of the insulation.

1,476,029. FLOAT VALVE. NATHANIEL S. BLACK, Newtonville, Mass. Filed May 14, 1921. Serial No. 469,668. 1 Claim. (Cl. 137—104.)



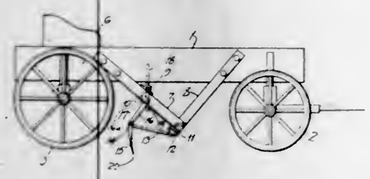
A valve of the kind described, comprising a casing containing a movable valve member and a valve seat, cooperating therewith, a sliding rod to separate said valve and valve seat, said rod having an outwardly extending yoke, a shaft formed with an eccentric adapted to operate within said yoke and with portions of said shaft straddling the yoke, said eccentric and yoke being constructed and arranged whereby the yoke may be assembled on the shaft in inoperative position and held assembled in operative position by engagement of the yoke and eccentric portions.

1,476,030. KNIFE. HERMAN H. DOEHLER and MARCUS STERN, Brooklyn, N. Y.; said Stern assignor to said Doehler. Filed July 9, 1923. Serial No. 650,327. 5 Claims. (Cl. 30—70.)



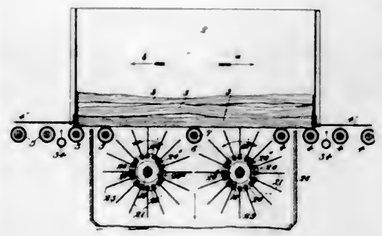
5. A pocket knife, including a die cast handle, comprising integral sides, back and end, a lug on the back of the handle and an undercut beveled recess, the lug and the recess sloping toward the open end of the handle.

1,476,031. GRADER. EMIL AHO, Owen, Wis. Filed Sept. 14, 1922. Serial No. 588,200. 1 Claim. Cl. 37—153.)



In a grader, a wheeled body, an operator's seat in said body, V-shaped supports depending from the sides of said body, a double-cranked shaft, foot controlled, carried by said supports and extending transversely of said body, a transversely extending beam connecting said supports, brackets carried by said beam, a blade extending transversely of said body below said shaft, supporting links for said blade pivotally connected to said brackets, and sectional adjusting and supporting links for said blade pivotally connected to each other and made fast to said double-cranked shaft and blade.

1,476,032. APPARATUS FOR DEFIBERIZING WOOD. GUSTAV AICHER and UEL S. MCMILLAN, San Francisco, Calif., assignors to McMillan Process Company, San Francisco, Calif., a Corporation of Nevada. Filed May 7, 1923. Serial No. 637,389. 12 Claims. (Cl. 83—75.)



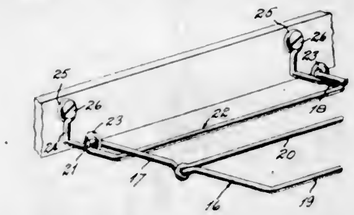
1. An apparatus for the defiberization of wood in line with the length of the fiber thereof, the same comprising a frame structure, an open-bottomed hopper mounted thereon for longitudinal reciprocating movement and adapted to contain slabs of wood lengthwise, means for imparting longitudinal reciprocating movement to the said hopper, and a pair of oppositely rotating defiberizing means mounted within the frame structure below the hopper and adapted to operate upon the under exposed surface of the wood held therein to be defiberized.

1,476,033. HAND TOOL. SWAN F. ANDERSON, Rockford, Ill. Filed Mar. 14, 1921. Serial No. 452,080. 1 Claim. (Cl. 145—47.)



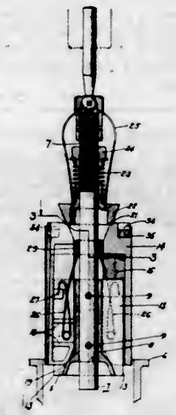
A hand tool of the character described, comprising a flat shank one face of which is tapered at one end, a flat blade having a working edge at one end and a projecting lip at the opposite end, the blade being adapted to lie against the flat side of the shank with its lip disposed uppermost, and a clamping plate adapted to over-lie the blade and provided at one end with clamping clips and at its opposite end with retaining clips, the former of which engage the tapered portion of the shank and the latter, the straight portion thereof, the clamping plate having on its underside a row of serrations spaced longitudinally thereof, the lip on the blade being adapted to engage in any of said serrations when the clamping plate is loosened by movement of the shank toward its tapered end, the clamping plate serving directly to clamp only the blade portion disposed between said plate and the tapered end portion of the shank by end pressure on the projecting end of the blade, which pressure is transmitted through the blade lip to the clamping plate, and the retaining clips serving to hold the serrated end of the clamping plate in operative relation to the blade lip while the clamping plate, blade and shank are in clamping relation.

1,476,034. TOWEL RACK. ALFONSO A. BANKS, New York, N. Y. Filed Feb. 12, 1921. Serial No. 444,585. 1 Claim. (Cl. 45—32.)



A towel rack comprising a bar and projection therefrom forming a U-shaped wire frame, said frame having upturned portions, the ends of which are unjoined and having loops formed integral thereon to receive screws and the other portions of which are adapted to abut against the wall, loops formed in the arms of said frame between the bar and the wall abutting portions, a U-shaped towel supporting frame adapted to rest upon said bar, trunnions formed in the arms of said towel supporting frame and adapted to be engaged in said last mentioned loops, said towel supporting frame being adapted to be swung up against the wall and a bar member extending across said towel supporting frame and adapted to have fixed relation therewith.

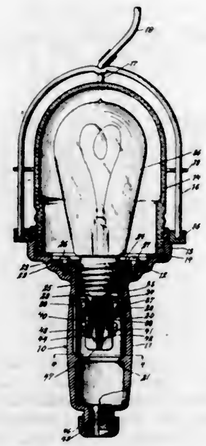
1,476,035. SIZING TOOL. GEORGE W. BENEDICT, Minneapolis, Minn., assignor to Mid-West Manufacturing Company, Minneapolis, Minn., a Corporation of South Dakota. Filed May 11, 1922. Serial No. 560,193. 10 Claims. (Cl. 51—206.)



1. A sizing tool comprising a shaft, a plurality of sizing bars mounted thereon for radial movement, and means carried by a bar for delivering sizing compound adjacent the leading edge of the bar.

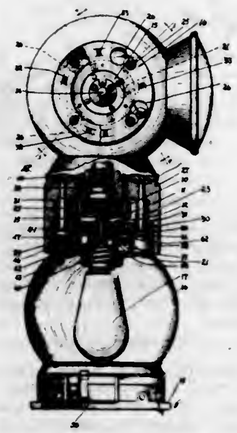
1,476,036. ELECTRICAL RECEPTACLE. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 7, 1919. Serial No. 302,406. 7 Claims. (Cl. 240—54.)

1. A hand portable receptacle comprising a hollow metal handle, a tubular cylindrical lining of insulating sheet material fitting in said handle, a threaded shell contact fitting in said lining and having a flange extending outwardly from its outer edge over the outer edge of said lining, means for engaging the outer face of said flange for holding said threaded shell contact in position,



an insulating base carried by said threaded shell contact, and a wiring terminal for said threaded shell contact supported by said insulating base.

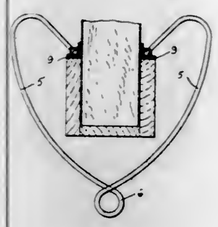
1,476,037. RAILWAY SIGNAL LANTERN. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 5, 1920. Serial No. 371,295. 7 Claims. (Cl. 240—22.)



1. A railway lighting device comprising a permanently installed lantern supporting part, and a lantern, said lantern comprising a casing for the lamp, an electric lamp socket in said casing, said casing being provided with a plurality of bull's-eyes, means whereby said lantern may be connected with respect to said permanent part in different positions of rotative adjustment, whereby said bull's-eyes may be displayed in different positions, said permanent part being provided with center and side contacts, said lantern also having center and side contacts for engaging the permanent contacts, said con-

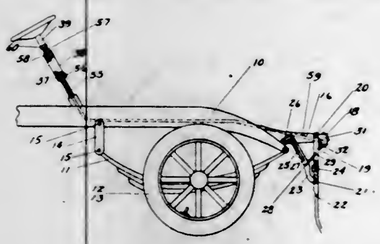
necting means comprising a bayonet joint, all of said contacts and said bayonet joint lying substantially in the same plane, said bayonet joint being coaxial with said center contact.

1,476,038. SWING HANGER. CHESTER WM. BIRCH, Chicago, Ill. Filed July 19, 1921. Serial No. 485,811. 2 Claims. (Cl. 248—64.)



1. A support for cooperation with door frames or the like comprising a bearing member on each side of the frame, a hanger having its terminals bent at right angles with the main portion thereof to extend along the bearing members, said hanger being bent backwardly upon itself to position the main portion thereof substantially midway of the shank, the arms of said hanger being arranged for directing inward and downward pressure on the bearing members, substantially as set forth.

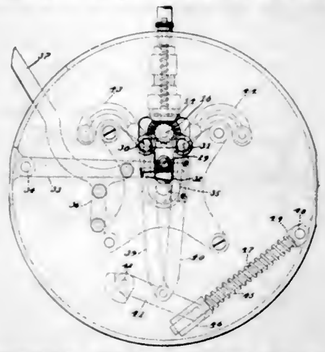
1,476,039. FENDER FOR VEHICLES. ROBERT S. BLAIR, Sound Beach, Conn. Filed Apr. 19, 1921. Serial No. 462,581. 14 Claims. (Cl. 293—34.)



1. In fender construction, in combination, a frame mounted in advance of a vehicle having an upper portion and a lower portion adapted to swing rearwardly therebeneath, and means adapted to hold said portions in the position in which they are swung upwardly and swung together.

1,476,040. ROUNDING MACHINE. CHARLES C. BLAKE, Brookline, Mass., assignor to C. C. Blake, Incorporated, Boston, Mass., a Corporation of New York. Filed Feb. 9, 1921. Serial No. 443,582. 10 Claims. (Cl. 12—17.)

6. The combination with an operating tool of a shoe supporting jack, a leader secured thereto provided with a guiding flange, means for feeding the leader longitudinally, means for swinging the leader laterally during its feed longitudinally comprising a pair of guides arranged to engage the outside face of the guiding flange, a rotatable eccentrically mounted guide arranged to engage the inside face of the guiding flange, two pairs of pins connected to the guide, one pair operating to hold the low face of the eccentrically mounted guide in engagement with the guiding flange and the other pair operating to hold the high face of the eccentrically mounted guide in engagement with the guiding flange, and means on the



leader cooperating with two of the pins (one pin of each pair respectiveyl) to rotate the guide to reverse the face with which the guide engages the flange.

1,476,041. METHOD OF MAKING BARRELS AND CASKS. ERIK AUGUST BOLINDER, Stockholm, Sweden. Filed June 25, 1920. Serial No. 391,726. 1 Claim. (Cl. 147—25.)



A method of making barrels and casks having a larger circumference at the middle than at the two end portions consisting in employing longitudinally curved staves and shaping the longitudinal edges thereof in the form of a circular arc, then forming the edges with interlocking tongues and grooves and finally inserting the tongues near the end of one stave in engagement with the groove at the opposite end of the adjacent stave and sliding the staves longitudinally of each other to effect interlocking engagement thereof.

1,476,042. STOCKING AND METHOD OF MAKING SAME. GEORGE P. BOSWORTH, Central Falls, R. I., assignor to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed July 26, 1922. Serial No. 577,717. 16 Claims. (Cl. 66—4.)



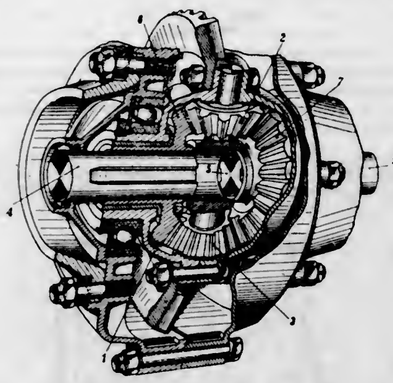
1. A seamless stocking having a circularly knit, upper leg portion, a gore at the calf portion, a split work ankle integrally knitted with said gore and leg portion and as an immediate continuation thereof, and a foot integral with the ankle portion.

1,476,043. STOCKING AND METHOD OF MAKING SAME. GEORGE P. BOSWORTH, Central Falls, R. I., assignor to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed July 27, 1922. Serial No. 577,871. 11 Claims. (Cl. 66—4.)



1. A seamless stocking having a circularly knit leg and upper ankle portion, a gore having tapered edges and integrally formed with the upper ankle portion at the rear of the stocking at substantially the position of a tapered high splice, and, a split work, lower ankle portion, the rear part of which is an immediate continuation of said tapered gore, and a foot.

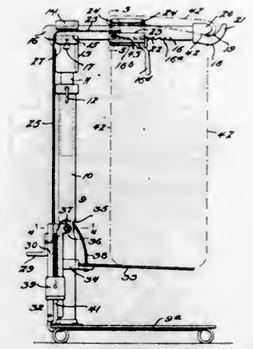
1,476,044. DIFFERENTIAL GEAR FOR MOTOR CARS. PAUL BÖTTCHER, Jr., Altona-Bahrenfeld, near Hamburg, Germany. Filed Dec. 16, 1921. Serial No. 522,952. 1 Claim. (Cl. 74—99.)



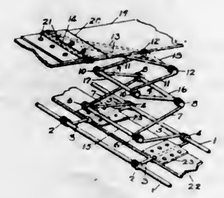
In a differential gearing for motor cars the shape of the intermeshing gear teeth having concave curved head-profiles and convex-curved foot profiles.

1,476,045. BAG HOLDER. WILLIAM J. PORLASE, Philadelphia, Pa. Filed Apr. 4, 1923. Serial No. 629,848. 8 Claims. (Cl. 83—26.)

1. In a bag holder, means providing undercut notched portions spaced apart and downward over and into which parts of the mouth of a bag can be turned after the bag has been moved horizontally therebetween; and a transversely extending stretching head movable toward and from a plane passing through said undercut notched portions.



1,476,046. UPHOLSTERY SPRING. FRANK J. BRANDEL and FRANK H. RICHERT, Buffalo, N. Y. Filed Mar. 10, 1921. Serial No. 451,416. 2 Claims. (Cl. 5—247.)



1. An upholstery spring of the class described, being composed of parallel rows of spring units arranged and supported on parallel wires in pairs, each of said units being composed of duplicate pairs of spring wires oppositely disposed about a center line and with V shaped portions having coil eyes at the apices of each V, each of said duplicate pairs forming a unit and being held together by means of rods through said coil eyes and independent of the other units, each of said units converging upward in both front and side views and means to anchor said units to each other at their tops by webbing in one direction and to each other at their bases by webbing at right angles to said first direction.

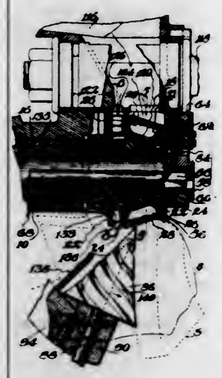
1,476,047. COATING APPARATUS. IRA C. BUCKMINSTER, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 18, 1920. Serial No. 404,426. 54 Claims. (Cl. 91—49.)

1. In a coating apparatus, an applying device comprising a spring member having convolutions furnishing an applying surface.

13. In a coating apparatus, a movable applying member, means for advancing said member, and a cam mechanism for laternately accelerating and retarding said member in its advance.

20. In a coating apparatus, a rotatable applying member, a rotatable feeding member situated adjacent to one

extremity only of the applying member, and means for rotating the applying and feeding members in opposite directions.



28. In a coating apparatus, an applying member, and a rotatable work-rest adjacent to the applying member, said rest being movable about a normally fixed point located approximately in its axis of rotation.

46. In a fluid-applying apparatus, a rotatable conical applying member, and a reservoir situated above the applying member and having an outlet arranged to deliver fluid upon a wall of the cone.

1,476,048. GRID FOR PROTECTING RÖNTGEN IMAGES AGAINST SECONDARY RAYS. GUSTAV BUCKY, Berlin, Germany, assignor to Wappler Electric Co., Inc., a Corporation of New York. Filed May 17, 1923. Serial No. 639,694. 2 Claims. (Cl. 250—34.)



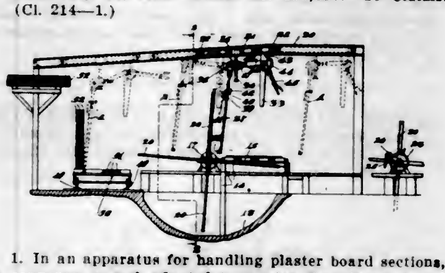
1. The method herein described of constructing a Röntgen ray grid, which consists in bringing together a number of leaves of metal of high atomic weight and a number of leaves of material relatively transparent to Röntgen rays and to which said leaves of metal can be made to adhere, said leaves of metal being alternated with said second mentioned leaves and being so thin and close together that an image made by them when they are stationary appears to the eye as practically uninterrupted, and causing all of said leaves to adhere together as a unitary member.

1,476,049. HOT WIRE CUTTER. HAZEL B. BUSH, Redlands, Calif., assignor to The Bush Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 5, 1919. Serial No. 287,801. 10 Claims. (Cl. 30—17.)

1. An instrument of the character set forth comprising a handle, a jaw carried by the handle, a second jaw pivoted to the first jaw, said jaws having cooperating cutting parts, a head, opposed guides between which the head is slidable, a link having its opposite ends pivotally connected respectively to the second jaw and head, a thrust element carried by the link and interposed between the head and second jaw, the bearing surfaces of the thrust member and the surfaces of the second jaw and head that engage therewith being curved on arcs concentric with the pivotal connections between the aforesaid link and the second jaw and head, a slide wherewith the head is connected, and means for reciprocating the slide.

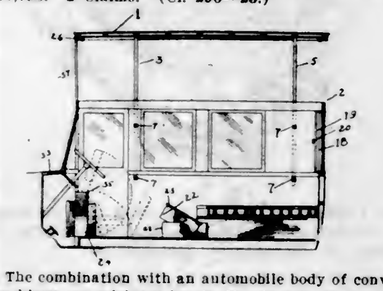


1,476,050. APPARATUS FOR HANDLING FRESHLY-FORMED SECTIONS OF PLASTER BOARD. GEORGE A. BUTTRESS, Los Angeles, Calif., assignor to Buttress Manufacturing Company, a Corporation of California. Filed Aug. 30, 1921. Serial No. 497,057. 10 Claims. (Cl. 214—1.)



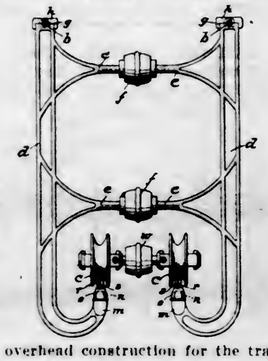
1. In an apparatus for handling plaster board sections, a conveyor, a reel adapted to receive the plaster board sections from said conveyor, a carrier and means for lifting the sections from said reel and depositing them onto said carrier.

1,476,051. BODY FOR AUTOMOBILES. LOUIS B. CASSELL, Decatur, Ill. Filed Aug. 28, 1922. Serial No. 584,798. 2 Claims. (Cl. 296—23.)



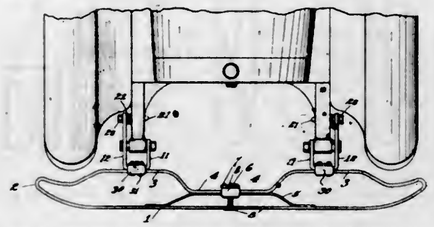
1. The combination with an automobile body of convertible cushions comprising a longitudinally extending cushion on each side of said body, a track formed by a shoulder on each of said cushions, a comparatively narrow cushion on said track slidable thereon, a detachable back cushion adapted to slide on said track and means to hold said cushions in position.

1,476,052. OVERHEAD CATENARY SUSPENSION CONSTRUCTION FOR TRANSMITTING ELECTRICITY TO VEHICLES. JAMES I. COMLY, Harrisburg, Pa. Filed Oct. 7, 1916, Serial No. 124,229. Renewed Apr. 30, 1923. 2 Claims. (Cl. 191—41.)



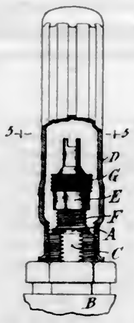
1. In an overhead construction for the transmission of electricity through traveling contactors to moving vehicles the combination of poles disposed along the line of way, supports extending from the poles, spans extending along the line of way and affixed to the supports and consisting of plural catenary supporting members and plural parallel supported working conductors and rigid current carrying spacer hanger located within the span between the supports and attached to the catenary members and the working conductors by attaching means provided on the hanger and arranged transversely with the hanger and in line with the catenary members and working conductors, and the attaching means by which two of the plural catenary members and two of the supported working conductors are affixed to the spacer hanger being apart from each other and positioned in relation to each other as the angle points of a quadrangle, and similar rigid spacer hangers provided with quadrangularly positioned attaching means and attached to the catenary members and the working conductors and spaced at intervals within the span along the line of way between the supports and the upper two of the quadrangularly positioned attaching means of the different hangers varying in height above the lower two in conformity with the sag of the catenaries and the attaching means of the hangers with the working conductors positioned uniformly for presenting the working conductors in parallel relationship, substantially as described.

1,476,053. BUMPER FOR AUTOMOBILES. PEARL P. CRADILL and JAMES TURNER, Springfield, Ohio. Filed Oct. 13, 1922. Serial No. 594,256. 1 Claim. (Cl. 293—55.)



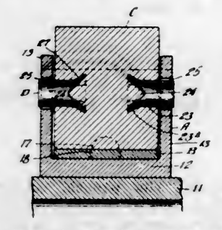
In a bumper, a rearwardly-extending attaching member having an opening, a bolt extending through said opening and having a hook-shaped end with a flattened face to engage the upper surface of the lower flange of the channel frame, a sleeve member on said bolt having an inclined face to engage the lower surface of said flange, said sleeve having a plate to clamp the web of said frame, and a nut on said bolt to draw the parts together.

1,476,054. VALVE CAP. PHILIP GILLETT COLE, Forest Hills, N. Y., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 29, 1921. Serial No. 518,628. 7 Claims. (Cl. 152—12.)



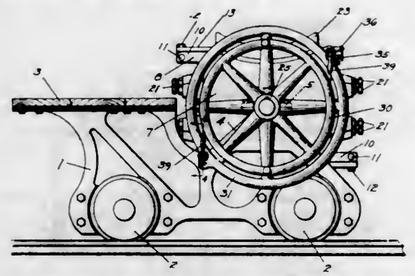
6. A valve cap having a body portion which is screw threaded both internally and externally.

1,476,055. ANTIFRICTION BEARING. CHARLES E. DATH, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Dec. 27, 1921. Serial No. 525,110. 4 Claims. (Cl. 64—65.)



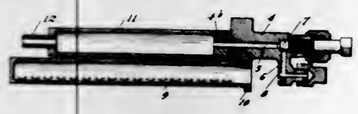
3. As an article of manufacture, an antifriction element for side bearings, comprising a cast metal body provided with alined inwardly flaring openings at opposite sides having raised portions at the inner ends thereof, said raised portions being cast integral with said body, and oppositely projecting hollow trunnions fixedly secured to said body by having their inner ends split and expanded in said flaring openings.

1,476,056. MOLDING MACHINE. FRANK T. DICKINSON, Denver, Colo. Filed June 20, 1921. Serial No. 478,808. 10 Claims. (Cl. 22—28.)



1. In a molding machine, the combination with a rotatable frame, of a pattern supporting box slidably mounted in the frame, stripper plates carried by the frame and having a plurality of slots and resultant bridge pieces formed therein, and means for moving the patterns into and out of operative relation with the slots and bridge pieces.

1,476,057. SADIRON. HARRY C. DOWNEY, Springfield, Ohio. Filed Jan. 3, 1922. Serial No. 526,657. 1 Claim. (Cl. 158—23.2.)



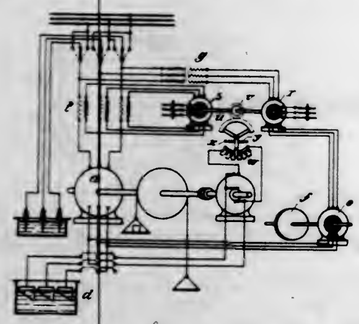
In a device of the character described, the combination of a main body portion having a chamber, a member supported at one end of said chamber having a horizontal passageway and a connecting vertical passageway, a jet formed near the end of the vertical passageway, an unobstructed generator tube in said chamber communicating at one end with said horizontal passageway, a fuel supply tube for said generator tube, the generator tube being formed of a diameter substantially three times the diameter of the supply tube, a fuel tank supported at the upper end of said supply tube, and a burner tube supported beneath and in parallel relation with said generator tube for the purpose specified.

1,476,058. DEMOUNTABLE-RIM WRENCH. JOHN B. DRAHONOVSKY, Milwaukee, Wis., assignor, by direct and mesne assignments, to American Grinder Manufacturing Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 10, 1922. Serial No. 528,186. 10 Claims. (Cl. 81—58.)



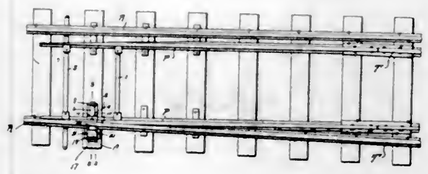
1. A demountable rim wrench, comprising a brace member, a holding member carried thereby, and a socket member revolubly connected to the holding member and adjustable to different positions for use, there being a relative movement toward each other of the brace member and the socket member to maintain the socket member in adjusted position.

1,476,059. METHOD OF ELECTRIC DRIVING. PETER PAUL DEUTSCHMANN, Berlin-Charlottenburg, Germany, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany, a German Corporation. Filed Nov. 23, 1920. Serial No. 426,082. 7 Claims. (Cl. 172—120.)



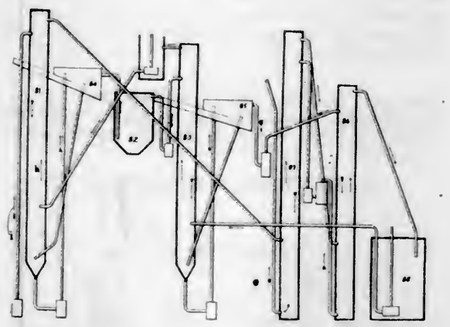
1. In an electric drive fed by a supply line the combination of an asynchronous driving motor with an auxiliary asynchronous motor having a fly wheel mechanically coupled to it, electrical stator and rotor connections between said driving motor and said auxiliary motor independent of said line, and means included in said connections for indicating the rate of acceleration or retardation of the driving motor.

1,476,060. RAILWAY SWITCH. JOHN ANDERSON DOUGHER, Princeton, Mo. Filed May 7, 1923. Serial No. 637,223. 1 Claim. (Cl. 246—318.)



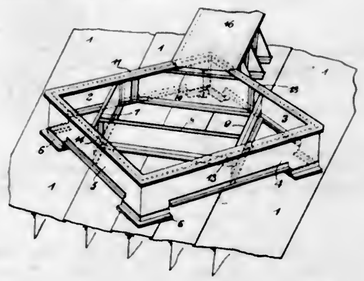
In combination with a rail and associated switch tongue, a base plate disposed therebeneath, means for attaching the plate to the rail, a sliding plate mounted upon the base plate, means for connecting the sliding plate to the tongue, said base plate being provided with a sleeve, a spring within said sleeve, means for operatively connecting one end portion of the spring to the base plate, and means for connecting the opposite end portion of the spring to the sliding plate, said spring serving to impose tension on the sliding plate to constantly urge the tongue toward the rail.

1,476,061. APPARATUS FOR EXCHANGING THE HEAT OF LIQUIDS. FRANÇOIS DUVIEUSART, Santiago, Chile. Filed Apr. 3, 1920. Serial No. 371,080½. 2 Claims. (Cl. 23—13.)



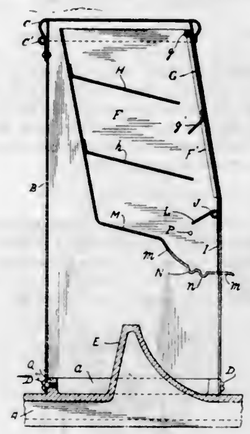
1. A heat exchanging apparatus for solutions having in combination means for causing a non-miscible liquid after it has lowered the temperature of a solution and another liquid having a higher temperature than the non-miscible liquid to travel in opposite directions through the same receptacle, means for cooling the hot solution in two stages and means for saturating it with a salt after the first stage, as and for the purpose set forth.

1,476,062. MEANS FOR SUPPORTING AND FOR CONNECTING BODIES, MACHINES, OR OTHER APPARATUS. WILLIAM ECCLES, Chorlton-cum-Hardy, England, assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 2, 1921. Serial No. 449,204. 15 Claims. (Cl. 248—30.)



2. A device for connecting two bodies comprising a frame, flexible connections between one body and four points of said frame, and flexible connections between four other points of said frame and the second body.

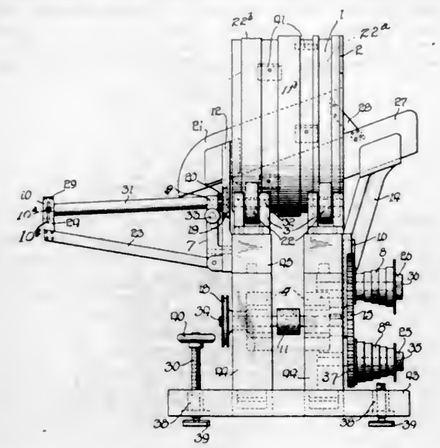
1,476,063. SANITARY TOOTHPICK RECEPTACLE. ANTON F. ENGLERTH, Chicago, Ill. Filed Feb. 9, 1922. Serial No. 535,249. 5 Claims. (Cl. 206—21.)



1. In a sanitary receptacle, a shell having the lower portion of one side thereof removed, in combination with a receptacle removably contained in said shell, said receptacle provided on one side thereof with a cover and with a hanging door, a portion of the bottom of said receptacle in spaced relation to and curved to correspond with the path of movement of the lower edge of said door and provided with grooves adapted to hold an article contained in said receptacle and to permit said door to pass thereover, and means to limit the swing of said door.

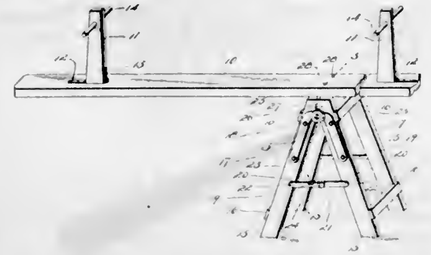
1,476,064. BOLT-HOPPERING MACHINE. THOMAS EYNON, Rock Island, Ill., assignor to Williams, White & Co., Moline, Ill., a Corporation of Illinois. Filed Sept. 3, 1921. Serial No. 498,314. 6 Claims. (Cl. 10—162.)

2. In mechanism of the class described, a rotary drum adapted to receive bolts in its interior, said drum having a plurality of flights spaced apart on the inner surface thereof, each flight having a groove of such dimensions



as adapt it to carry but one bolt at a time, and a chute extending into said drum for receiving bolts dropped from the flights.

1,476,065. TEETER BOARD. WILLIAM A. FLINT, New Haven, Conn., assignor to estate of Adelbert W. Flint, New Haven, Conn. Filed Dec. 9, 1921. Serial No. 521,107. 3 Claims. (Cl. 46—22.)

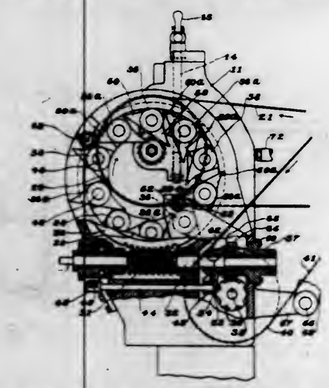


1. In an amusement device; a board; a shaft connected therewith; a collapsible stand, composed of a plurality of legs hinged together in pairs, each leg having a face at its upper inner end with a semi-circular recess therein that will contact with a similar face upon the other leg hinged thereto when said legs are in their open position and thereby limit the relative movement of said legs in one direction, at which time said semi-circular recesses will unite to form a journal bearing for said shaft which will rotate freely therein; and means for holding said stand against closing when in its open position.

1,476,066. MACHINE FOR MILLING RODS. ARTHUR R. FORS, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a Corporation of Virginia. Filed Aug. 30, 1920. Serial No. 406,917. 8 Claims. (Cl. 90—59.)

1. In a machine of the class described, the combination of a base, a revolvable head carried by the base, devices for clamping parts to be milled to said head with their axes at right angles to the axis of said head, a milling spindle parallel with the axis of said head and eccentrically disposed thereto for milling the projecting ends of said parts to be milled, said clamping devices comprising

movable rods carried by said head, clamping blocks on one end of said head for engaging said parts to be milled, and cam mechanism engaging said rods on the other end of said head for moving said rods to clamping position, said cam mechanism comprising a cam plate carried by said head for each of said rods, a cam rotatably mounted on each rod engaging the corresponding cam plate, arms projecting from each cam, and rollers carried by the base in the path of said arms, one of said rollers being outside of and the other inside of said cams radially, whereby rotation of said head brings the arms of each cam alternately into engagement with said rollers to alternately rotate the cam in one direction and then the other to its clamping and releasing positions.



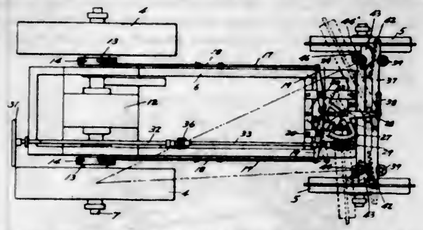
1,476,067. FISHING TACKLE. CHARLES FREDRICKS, Brooklyn, N. Y. Filed Nov. 22, 1922. Serial No. 602,525. 1 Claim. (Cl. 43—42.)



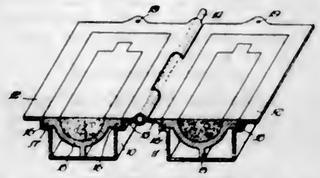
In deep sea fishing tackle, a line, a hook connected therewith and an enticer consisting of a bundle of loose red gut strands supported by the line and located far enough from the hook to leave free the approach to the bait when on the hook.

1,476,068. VEHICLE STEERING GEAR. JOHN FROELICH, St. Paul, Minn., assignor to Leslie S. Hackney, St. Paul, Minn. Filed Nov. 26, 1918. Serial No. 264,155. 4 Claims. (Cl. 180—18.)

1. In a vehicle, comprising a frame, traction wheels, and brakes for said wheels; a pair of steering wheels, upright spindles connected with said wheels, gear segments mounted eccentrically on said spindles, means connecting one gear segment with the other and having a shifting engagement with each gear segment, and means for operating the gears through their connecting means and applying the brake to one of the traction wheels.

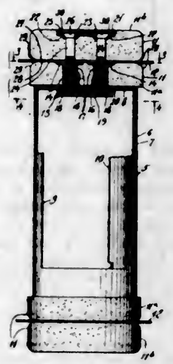


1,476,069. METHOD OF AND MEANS FOR MAKING AND SETTING GREEN-SAND CORES. WILLIAM J. GILMORE, Hammond, Ind. Filed Mar. 3, 1919. Serial No. 280,310. 6 Claims. (Cl. 22—198.)



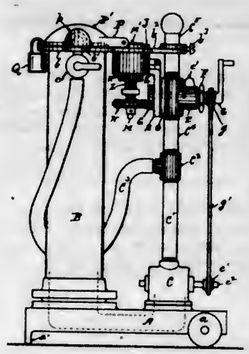
1. The method of making and setting a green sand core consisting in forming said core in a core box consisting of separable parts, removing one of said separable parts and mounting a flask section upon the remaining core box part in cooperating relation with said core, inverting said flask section and said last mentioned core box part, removing said last mentioned core box part and applying the remaining flask section.

1,476,070. CARRIER FOR PNEUMATIC-DISPATCH TUBE SYSTEMS. ERNEST R. GIFFERT, New York, N. Y., assignor to Atlas Devices Company, Inc., a Corporation of New York. Filed Oct. 24, 1921. Serial No. 509,773. 10 Claims. (Cl. 243—39.)



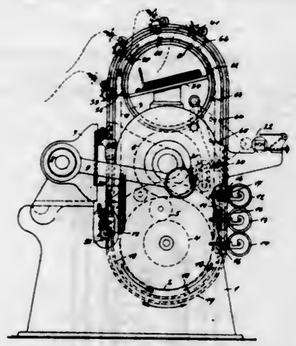
1. A carrier for pneumatic dispatch tube systems having a buffer head at its end, said buffer head consisting of a plurality of separate circular pieces of resilient material arranged end to end in superimposed relation, said pieces being of substantially the same diameter and separately detachable one from the other and from the carrier shell.

1,476,071. DISPENSING MECHANISM. EMANUEL J. GRACE, Erie, Pa. Original application filed Feb. 25, 1921, Serial No. 447,634. Divided and this application filed Apr. 2, 1923. Serial No. 629,293. 10 Claims. (Cl. 221—103.)



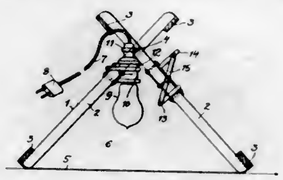
1. In a mechanism of the class described, a pump, a pump shaft, a power shaft bearing supported above said pump, a power shaft mounted in said bearing, a frame supported on said shaft bearing, a vertical shaft mounted in said frame, an indicator disc on the upper end of said shaft, co-acting friction mechanism on said vertical shaft and said power shaft, and means to communicate power from said power shaft to said pump shaft.

1,476,072. PRINTING MACHINE. EDUARD GROSSE, Wachwitz, near Dresden, Germany. Filed May 5, 1921. Serial No. 467,188. 5 Claims. (Cl. 101—313.)



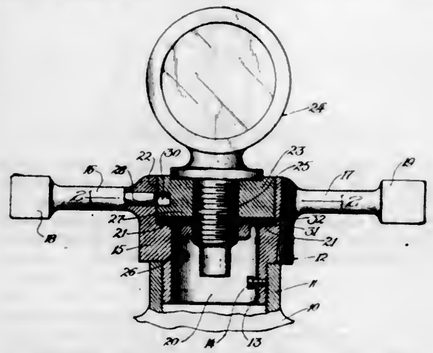
1. In a platen press the combination of a cylinder inking arrangement, a platen, endless bands adapted to rotate around the center of the press, and a number of inking rollers secured to the said bands by means of carriages in order to rotate around the center of the press so that the inking rollers during their travel rotate on the surface of the ink cylinder, and furthermore, of rollers adapted to supply the ink cyinder with ink, a table, and means of taking the printed sheets off the platen and deliver them to a receiving table, while the inking rollers are led around the center of the press and guided, for the purpose of receiving ink, over the ink cylinder rotating in the opposite direction to that of the inking rollers in order to cause thereby a quicker rotation of the inking rollers on the ink cyinder, substantially as described.

1,476,073. ELECTRIC BED WARMER. HERMANN GUGENBÜHL, Ruschlikon, Switzerland. Filed Aug. 16, 1921. Serial No. 492,703. 7 Claims. (Cl. 219—45.)



1. An electric bed warmer comprising a collapsible framework forming when in use in a bed a hollow space for the reception of an electrical source of heat, and means operating to prevent complete collapsing of the frame work until the said electrical source has been removed from its operative position.

1,476,074. CLOSURE FOR AUTOMOBILE RADIATORS AND THE LIKE. HANS PETER HANSON, Chicago, Ill. Filed May 23, 1921. Serial No. 471,784. 5 Claims. (Cl. 70—90.)

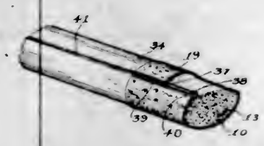


1. In a device of the class described, the combination with the neck of a radiator shell, of a cap threaded onto said neck, said cap having a vertically extending through passage, the upper portion of said passage being threaded, there being an upwardly facing shoulder at the lower end of said threaded portion, a plug threaded into said portion, a steam-tight gasket between the shoulder and the lower face of the plug, a thermal indicator extending through the plug, means for securing the thermal indicator to the plug by the use of a locking device on the inner end of the thermal indicator, means for securing the cap to the neck of the radiator shell by the use of an interior locking device accessible only through the plug opening when the plug is removed, a radially extending and radially movable locking pin in the cap, there being a peripheral socket in the threaded portion of the plug adapted to receive the inner end of said locking pin when projected inwardly, and means in the cap for shifting the position of said pin only by the use of a suitable key, substantially as described.

1,476,075. MOUTHPIECE CIGARETTE WITH CRIMPED SEAM AND METHOD OF MAKING THE SAME. AUBREY H. HARWOOD, Lynchburg, Va., assignor to United Cigarette Machine Co., Inc., Lynchburg, Va., a Corporation of Virginia. Filed Mar. 29, 1922. Serial No. 547,694. 10 Claims. (Cl. 131—52.)

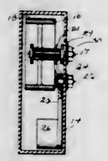
1. A crimped mouth-piece cigarette having a wrapper and a mouth-piece section thereon, the lateral dimensions of the mouth-piece section being less than that of the

wrapper for providing in the latter free marginal edges, the edges of the wrapper including the free marginal edges being folded in an interlock and the folds secured



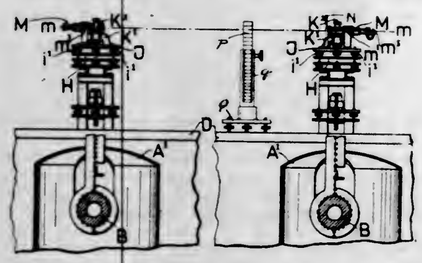
by a crimp, the said mouth-piece section having no portions infolded with the said interlock and the said crimp extending throughout the length of the interlock and over the mouth-piece section.

1,476,076. GRADEMETER. ALFRED T. HESPE, East Orange, N. J. Filed Oct. 15, 1921. Serial No. 507,976. 3 Claims. (Cl. 33—219.)



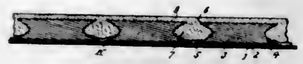
2. A grademeter including an oscillatory drum having a hub, a gear upon the hub of said drum, a toothed sector in mesh with said gear, a pendulum supported by said sector and means for supporting said gear so that it may be moved out of engagement with said sector and means for guiding said shaft during said movement.

1,476,077. APPARATUS FOR THE DETERMINATION OF THE DIRECTION OF THE AXIS OF ROTATION OF A BODY. HERMANN HORT, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Apr. 28, 1921. Serial No. 465,255. 2 Claims. (Cl. 33—46.)



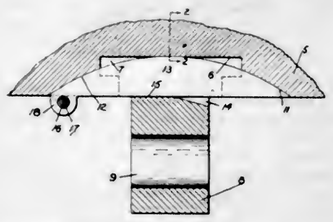
1. In an apparatus for setting the axis of rotation of one body in a position parallel with the axis of rotation of a second body, two rotatable bodies, a telescope fixed to each rotatable body, each telescope having a sighting line running transversely to the axis of rotation of the body appertaining thereto, one of said rotatable bodies being adjustably mounted, two level scales, one of said level scales being disposed adjacent the other of said rotatable bodies whereby it can be read off through the telescope of the first rotatable body, said second level scale being so disposed that it can appear in the field of view of both telescopes.

1,476,078. STRUCTURAL ELEMENT. WILLIAM M. JANPOLE, New York, N. Y. Filed Oct. 23, 1920. Serial No. 418,998. 3 Claims. (Cl. 72—116.)



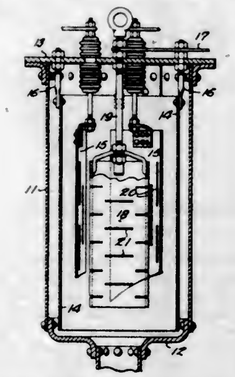
1. A construction comprising a body portion, a strip having in each lateral side thereof a longitudinally extending groove, and a plastic adhesive material covering one side of said body portion, a portion of which enters the said grooves to hold the strip on the body portion.

1,476,079. FASTENING DEVICE FOR GUN CRADLES. BRYAN P. JOYCE, Davenport, Iowa. Filed Sept. 6, 1923. Serial No. 661,263. 6 Claims. (Cl. 89—40.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



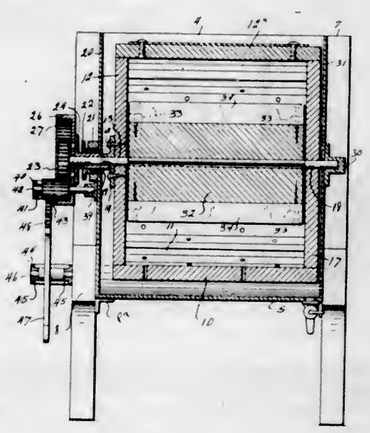
6. A locking device embodying a pair of members, one of said members formed on its outer face with a recess, the other member having a portion adapted to enter said recess and be retained therein, said members formed with registering slots, and means adapted to be inserted in said slots and to lie flush with the outer face of the first named member for locking said members together.

1,476,080. ELECTRIC-BOILER CONSTRUCTION. FREDERICK T. KAELIN, Montreal, Quebec, Canada. Filed Jan. 3, 1922. Serial No. 526,735. 10 Claims. (Cl. 219—38.)



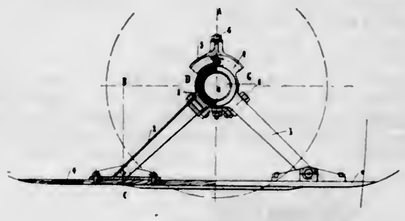
1. In apparatus for heating liquids, a vessel having the walls thereof in contact with the liquid to be heated, means within the vessel for effecting electric discharge through the liquid to be heated, and a protective shell interposed between the vessel walls and the electric discharge means to prevent discharge between such means and the vessel walls and to prevent mechanical weakening of the walls by reason of any such discharge.

1,476,081. WASHING MACHINE. CHARLES BENJIMAN KAVANAUGH, Little Rock, Ark. Filed Aug. 20, 1921. Serial No. 493,968. Renewed May 26, 1923. 2 Claims. (Cl. 68—18.)



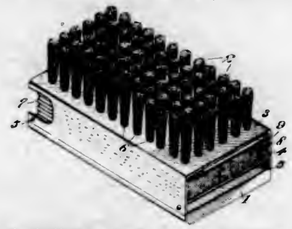
1. A washing machine of the character described comprising a tank, a bearing sleeve and clutch member rotatably mounted in one wall of the tank, a shaft extending through said bearing and having one end portion mounted in the opposite wall of the tank, an agitator carried by the shaft, a drum surrounding the agitator and rotatably mounted on the shaft, a clutch member carried by the drum for engagement with the first mentioned clutch member, an internal gear carried by the bearing member exteriorly of the tank, an external gear carried by one end of the shaft, said external gear being disposed inwardly of the internal gear and means disposed between said gears for simultaneously rotating said gears in opposite directions.

1,476,082. WHEEL AND RUNNER OR SKI ASSEMBLING DEVICE. ADOLPHE KÉGRESSE, Paris, France. Filed Jan. 25, 1922. Serial No. 531,775. 2 Claims. (Cl. 280—14.)



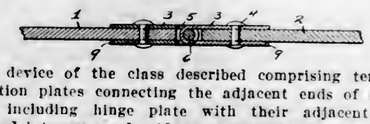
1. The combination of a vehicle wheel; a spindle about which the wheel is adapted to turn; a collar loosely encircling the hub of the wheel and having a pair of spaced shoulders on its upper portion; a runner; a pair of diverging struts secured at their upper ends to the lower portion of the collar and at their lower ends to the runner; an arm mounted with a slight degree of friction on the spindle and engaged at its outer end between said shoulders; and a spring device carried by said arm end for coaction with said shoulders to yieldingly lock the runner in a balanced position clear of the ground, and to absorb shocks to which the runner may be subjected.

1,476,083. BRUSH. WILLIAM GREGORY KETT, Oakland, Calif., assignor of one-half to Ludwick H. Hirsch, San Francisco, Calif. Filed Aug. 17, 1922. Serial No. 582,347. 1 Claim. (Cl. 15—168.)



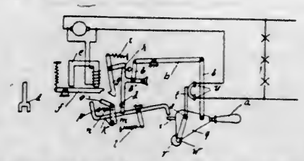
A brush including a back and a plurality of bristle tufts extending from one face thereof, an apertured plate movable to and from the face of said back and through the apertures of which said tufts project, said plate being bent at opposite sides to overlie the side edges of said back, members uniting the opposite bent portions of the member at their corresponding ends, said back being transversely grooved at its ends to receive said uniting members, the side walls forming said grooves affording stops for limiting the movement of said plate longitudinally of said bristle tufts.

1,476,084. BELT FASTENER. MARTIN KIEFER, Elmhurst, Ill. Filed May 9, 1923. Serial No. 637,704. 1 Claim. (Cl. 24—33.)



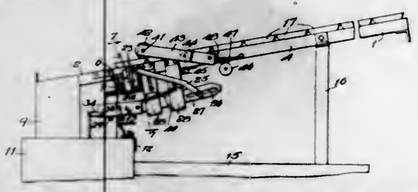
A device of the class described comprising terminal junction plates connecting the adjacent ends of a belt and including hinge plate with their adjacent ends formed into eyes and said eyes being traversed by a line of links uniting the plates in hinged relation to permit the belt to pass over pulleys without injury to the belt or junction members, said plates being undercut where next to the belt to prevent entrance thereof into the belt.

1,476,085. NO-VOLTAGE RELEASE FOR ELECTRICAL SWITCHES. PETRUS KLAAS VAN DER STERR, Frankfort-on-the-Main, Germany, assignor to Firm Voigt & Haeffner Actien Geselischaft, Frankfort-on-the-Main, Germany. Filed July 12, 1913. Serial No. 778,761. 2 Claims. (Cl. 200—89.)



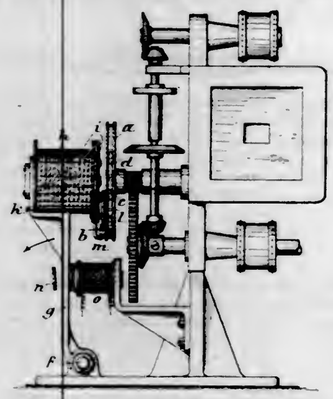
1. The combination with a switch adapted to open and close an electric circuit, of an electromagnet and its armature, the coil of said electromagnet being connected across the voltage of the said circuit, locking means for said armature adapted to be thrown into non-locking position by the said switch being thrown into closed position, a normally locked member adapted to return the said armature into engagement with its electromagnet after being retracted therefrom, locking means for said returning member adapted to hold the returning member in position ready for action and to be thrown into non-locking position by the armature being retracted from its electromagnet, means connected with said switch and adapted when the switch is being thrown into open position to shift said returning member into position ready for action, and means operative when the armature is being returned to the electromagnet to shift the switch into open position.

1,476,086. AUTOMATIC INGOT FEEDER. HARRY KRAUTBLATT, Chicago, Ill., assignor of one-third to Frank S. Russell and one-third to Stephan Sestak, both of Chicago, Ill. Filed Apr. 11, 1921. Serial No. 460,570. 10 Claims. (Cl. 22—80.)



1. In a device of the character described and in combination, a trough adapted to receive a plurality of ingots thereon, means for adjusting the inside width of said trough, means for temporarily maintaining the ingots in position on the trough, and means automatically operative for successively releasing the ingots.

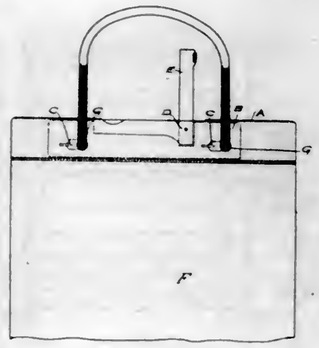
1,476,087. DEVICE FOR STOPPING THE FILMS IN CINEMATOGRAPH PROJECTION APPARATUS. STANISLAUS KUCHARSKI, Charlottenburg, near Berlin, Germany. Filed Aug. 31, 1921. Serial No. 497,302. 1 Claim. (Cl. 88—17.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



In cinematograph apparatus, the combination with the film moving mechanism, of means for insuring the proper positioning of a picture at the projection opening when the movement of the film is stopped, said means being normally inoperative, and means for moving the same into operative position, said positioning means comprising a wheel driven by the film moving means, a stop in connection with the wheel and centrifugally controlled to inoperative position by the movement of the wheel, and a spring controlled brake mechanism for engagement by the stop, normally but of engaging position when the stop is in operative position.

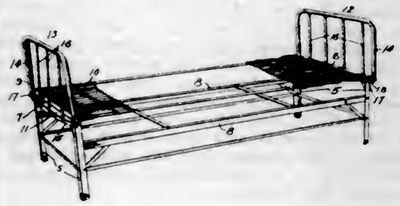
1,476,088. FILE OR BINDER FOR LETTERS, DOCUMENTS, OR OTHER SHEETS OR PAPERS. LENNOX LIDDELL, Glasgow, Scotland. Filed Apr. 8, 1920. Serial No. 372,304. 1 Claim. (Cl. 129—41.)

In a binder, a channel bar to receive one edge of a cover and having openings in its sides, a base also having openings, a locking bar arranged for longitudinal movement in the channel of the channel bar and having slots which register with the openings of the channel bar and also having needle points projecting into said slots at one end thereof, a binding cord passing through the openings of the channel bar and base and also through the slots of the locking bar, and an operating lever for the locking bar, arranged in the channel of the channel



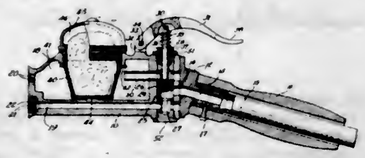
bar and also in a recess in one side of the locking bar, and serving to move the locking bar to cause the points thereof to enter the binding cord.

1,476,089. BED CONSTRUCTION. MORRIS LIPPS, New York, N. Y. Filed Nov. 18, 1920. Serial No. 424,986. 4 Claims. (Cl. 5—53.)



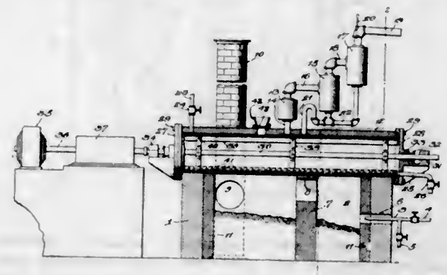
1. The combination of a bed frame having corner posts and angle iron end bars connecting the posts at opposite ends of the frame and having flanges resting on top of the posts and dependent flanges at the backs of said posts, detachable end members having arches, connected at their lower ends by cross bars and bolts securing said end members with the cross bars in engagement with the dependent flanges aforesaid.

1,476,090. DISHWASHER NOZZLE. BENJAMIN B. LIPSNER and PAUL SPORER, Chicago, Ill., assignors of one-third to Milton A. Dreyfus, Chicago, Ill. Filed June 25, 1923. Serial No. 647,442. 3 Claims. (Cl. 299—84.)



1. A dish washer nozzle comprising a passageway, the outlet of the passageway being aligned with the inlet thereof, means for connecting the passageway with a supply of water, a perforate receptacle for soap secured to the nozzle to project into the passageway, and a rib disposed in the passageway transversely thereof and spaced from the receptacle for agitating the water and for directing it to the receptacle.

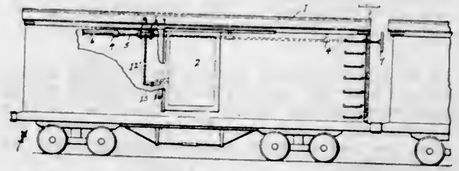
1,476,091. PROCESS OF AND APPPARATUS FOR THE MANUFACTURE OF LOWER-BOILING HYDROCARBONS FROM HIGHER-BOILING HYDROCARBONS. ALMER M. MCAFEE, Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Texas. Filed Dec. 15, 1919. Serial No. 344,933. 14 Claims. (Cl. 196—26.)



6. In the distillation of oils with aluminum chlorid the process which comprises kneading during the distillation the gummy masses formed from the aluminum chlorid and after such masses become too brittle for kneading performing mechanical comminution thereon.

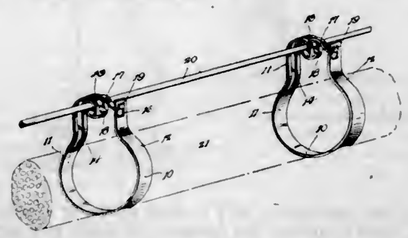
12. In apparatus for the conversion of higher boiling oils into lower boiling with the aid of aluminum chlorid the combination of a still, stirring and lifting means therein and a plurality of steel balls adapted to be lifted by the lifting elements.

1,476,092. SEAL FOR BOX-CAR DOORS. JAMES EMMET MCINNIS, St. Louis, Mo. Filed Mar. 14, 1923. Serial No. 625,147. 2 Claims. (Cl. 292—96.)



1. In a lock for box car doors, a horizontal shaft, a drum positioned on said shaft, a locking lever, means for connecting said drum with said locking lever, and means mounted on one end of said shaft for rotating the same to move the locking lever to an inoperative position.

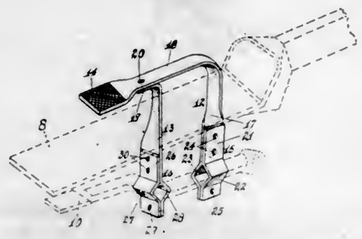
1,476,093. CABLE HANGER. DONALD K. MCGINTY, Marion, Ohio. Filed Sept. 17, 1921. Serial No. 501,271. 2 Claims. (Cl. 248—33.)



2. A cable hanger consisting of a substantially U-shaped hanger body having one side terminating in a down-turned jaw at its top, and a latch pivoted to the

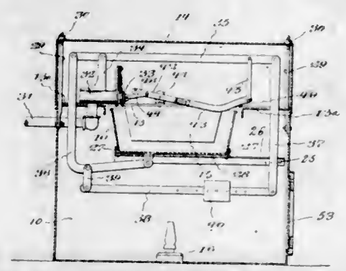
end of said jaw and rising from the pivot between the jaw and the body side carrying the same whereby to clamp a supporting element to said jaw and thence passing across the body to effect locking engagement at its free end with the free side of the body.

1,476,094. PEDAL-EXTENSION ATTACHMENT. LESLIE A. MEAD, Hayward, Calif. Filed Feb. 9, 1922. Serial No. 535,324. 3 Claims. (Cl. 74—81.)



1. A pedal extension attachment including a right angular member comprising a standard, an arm and a pedal member on the forward end of said arm, a second standard secured at its upper end to said arm, and clamps on the lower portion of both of said standards.

1,476,095. STOCK-WATERING APPARATUS. FRANCIS L. MORGAN, Washington, Iowa. Filed May 18, 1923. Serial No. 639,922. 11 Claims. (Cl. 119—73.)

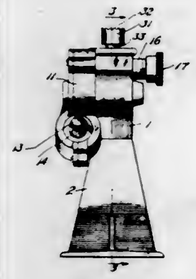


7. In a watering apparatus, a depressible support, a water receptacle carried by the support, a water supply having an outlet into the receptacle, a valve for said outlet, a lever, a pair of toggle members one of which is connected to the valve, a connection between the other toggle member and the lever, a second lever, a counterweight carried by the second lever, a link connection between one end of the first-mentioned lever and the receptacle support, a link connection between the other end of the first-mentioned lever and one end of the second lever, a fulcrum-link connection between the other end of the second lever and the first-mentioned link connection, and means engageable with one of the toggle members for swinging the same to lock the valve in closed position.

1,476,096. LIFTING JACK. JOHN A. MORRISON, Mansfield, Ohio. Filed Feb. 21, 1921. Serial No. 446,713. 3 Claims. (Cl. 254—97.)

1. A lifting jack comprising a standard, a lifting bar vertically movable within the standard and comprising a pair of rack members, lifting means for alternate engagement with each of said rack members for moving one of said rack members independently of the other, a spring pressed plunger within the housing for holding the other

rack member against movement until the first rack member has reached the limit of its upward movement with relation to the second rack member, and means for automatically locking said rack members together at this point the lifting means moving both of said rack members after they are locked together.



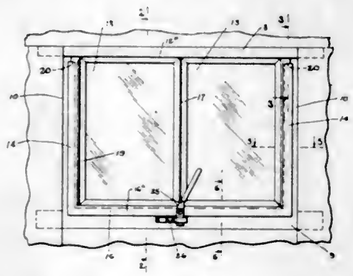
1,476,097. DOOR. LEON H. NISHKIAN, San Francisco, Calif. Filed Oct. 15, 1919. Serial No. 330,763. 1 Claim. (Cl. 20—19.)



A device of the character described comprising a door, a track extending horizontally inwardly from each side of the door and terminating in a downwardly turned portion, means movable on said track and attached to the upper end of said door for supporting substantially one-half of its weight from said track in all positions of said door, a counterweight equal to substantially one-half of the weight of the door arranged adjacent one edge of said door, a pulley over each edge of said door, flexible means passing over said pulleys for connecting said counterweight with the lower end of said door at opposite edges, a substantially vertical guide for controlling the direction of movement of the lower end of said door, and means for applying force in a horizontal direction to the upper end of said door whereby the initial opening movement of said door is effected without lifting it and the initial closing movement of said door is slightly retarded by the downwardly turned portion of said horizontal tracks.

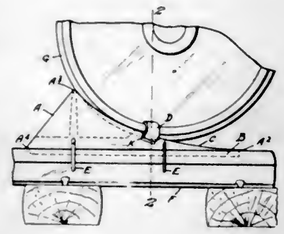
1,476,098. WINDOW. ANDERS H. NESHEIM, Milwaukee, Wis., assignor, by mesne assignments, to Federal Steel Sash Company, Waukesha, Wis., a Corporation of Wisconsin. Filed Dec. 12, 1921. Serial No. 521,737. 7 Claims. (Cl. 189—69.)

6. In combination a window frame including side members provided adjacent the top with aligned horizontally disposed shoulders, and a sash frame having vertically extending out-turned flanges, said flanges being provided



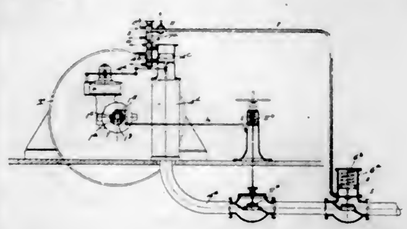
with backwardly and horizontally extending portions adapted to bear on said respective shoulders, for the purpose specified.

1,476,099. PORTABLE BRAKE SHOE. GUSTAF E. OSTERMAN, Montreal, Quebec, Canada. Filed July 14, 1921. Serial No. 484,823. 8 Claims. (Cl. 104—260.)



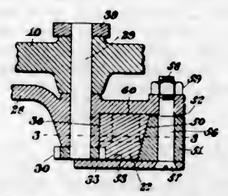
1. In a brake shoe the combination of a body portion having a lower flat surface adapted to rest on a rail, an upper curved surface adapted to support the tire of a car wheel and a hook adapted to lock the shoe to the wheel, one end of which projects normally above the curved surface.

1,476,100. SAFETY DEVICE FOR PRIME MOVERS, ESPECIALLY FOR STEAM TURBINES. WILHELM PAPE, Charlottenburg, Germany, assignor to General Electric Company, a Corporation of New York. Filed Apr. 18, 1922. Serial No. 555,248. 5 Claims. (Cl. 137—140.)



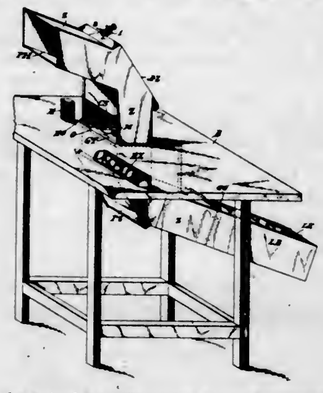
1. The combination with a prime mover, of a regulating valve controlling the admission of elastic fluid thereto, a speed governor for the regulating valve, an emergency valve controlling the admission of elastic fluid to the prime mover, and means operated by said speed governor for effecting the closing of the emergency valve.

1,476,101. PRESSER-FOOT MECHANISM. OTTO T. PETERSON, Malden, and ERNEST C. LEACH, West Peabody, Mass., assignors to Victor Shoe Machinery Company, Lynn, Mass., a Corporation of Massachusetts. Filed Aug. 20, 1921. Serial No. 493,950. 1 Claim. (Cl. 74—84.)



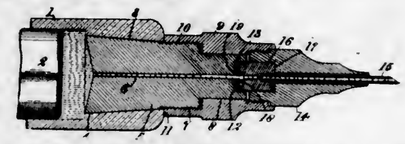
The combination of a guide-member including an aperture and a plane guide-wall, a second guide-wall at an angle to the first said guide-wall, a machine-element mounted against said guide-walls for longitudinal sliding movement, an adjustable track-member provided with a plane guide-wall at an incline to the other said guide-walls and against said machine-element so as to prevent outward movement and rotary movement of the said machine-element while permitting said longitudinal sliding movement, said adjustable track member having a cylindrical hole therethrough, and an adjusting member rotatably fitted in the aperture of the first said track-member and provided with an eccentric part fitted in said cylindrical hole for moving said adjustable track-member towards the second said guide-wall, means being provided on said adjusting member for moving said adjustable track-member towards the first said guide-wall, means being provided to secure said adjusting member in its different adjustments.

1,476,102. OPTICAL SELECTION OF SPLIT MICA SHEETS. GREENLEAF WHITTIER PICKARD, Newton Center, Mass., and JULIAN BARTH, New York, N. Y., assignors to Wireless Specialty Apparatus Company, Boston, Mass., a Corporation of New York. Filed Aug. 23, 1921. Serial No. 494,602. 15 Claims. (Cl. 88—14.)



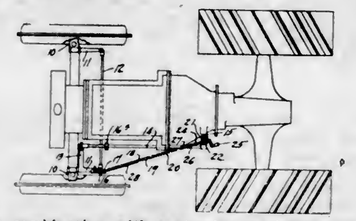
1. In the art of manufacturing articles comprising split mica films, the apparatus for selecting films having a condition as to thickness which is suitable for such articles, from a quantity of such films having unknown thickness-conditions, which comprise a light-chute having dark interior walls and a cross-sectional area larger than the area of the films to be handled, said chute having a central portion mounted to be generally vertical and having upper and lower inclined end portions, the whole being generally Z-shaped, and the end of the upper inclined portion being open to transmit light to the eyes of an observer; a light-box mounted with and constituting an extension of the lower inclined chute-portion and having reflecting interior surfaces; a lamp-carrier adapted to receive a lamp near the end of the light-box remote from the end of the lower inclined chute-portion; a light-polarizer constructed and mounted to receive light from said light-box and transmit it upwardly thru the central portion of the light-chute; a light-diffuser mounted between the lamp and polarizer and sufficiently remote from the lamp to prevent substantial light spots on said diffuser; a light-analyzer constructed and mounted to receive light from the polarizer and transmit it thru the upper inclined chute-portion to the observer's eyes; said light-chute having an opening in the side of its central portion between the polarizer and analyzer and facing in the same direction as the upper inclined chute-portion; and a transparent film-support mounted in and transverse of said light-chute below said opening.

1,476,103. HYPODERMIC SYRINGE. FRANK L. PLATT, GEORGE N. HEIN, and ROBERT R. IMPEY, San Francisco, Calif. Filed June 21, 1922. Serial No. 569,923. 5 Claims. (Cl. 128—18.)



1. A syringe including a barrel provided with a tubular bore having a tapered discharge end, a tubular nipple having a tapered base for detachable reception within said bore by passing the same longitudinally therethrough from the opposite end of said bore, said nipple adapted for frictionally engaging the tapered discharge end of said bore to provide a fluid tight joint therebetween, a coupler for engaging said nipple and barrel for retaining the same in their relatively operative position, and a needle detachably secured to said coupler.

1,476,104. STEERING MECHANISM. HERBERT C. V. POULSEN, Walnut, Iowa. Filed July 22, 1922. Serial No. 576,765. 2 Claims. (Cl. 280—87.)

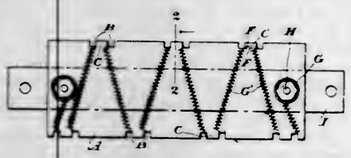


1. In combination with a steering mechanism embodying the usual steering spindles, rod connecting the arms of the spindles, drag link connected with one of the spindles, and a steering arm for operating the drag link, of means connecting a spindle arm and the steering arm for placing an adjustable tension upon the steering mechanism tending to turn the wheels thereof in one direction, including a spring connected with said spindle arm at one end, a yoke secured to said steering arm and embodying an ear, and a member longitudinally adjustable through said yoke and connected with the opposite end of the spring.

1,476,105. SUPPORTING BASE FOR CURRENT CONDUCTORS. ASHER PRITZKER, Toronto, Ontario, Canada, assignor to The National Electric Heating Company, Limited, Toronto, Canada. Filed Apr. 4, 1922. Serial No. 549,513. 1 Claim. (Cl. 219—70.)

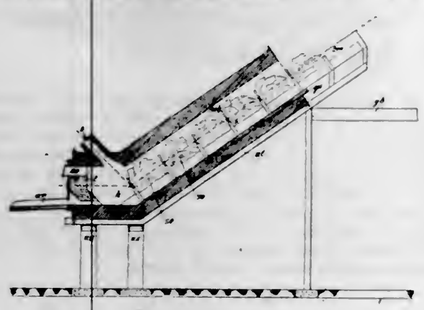
As a new article of manufacture, a supporting base provided with a plurality of spaced recesses in opposite edges thereof extending through from one side of the base

to the other to form a post or pin at one end of each recess, which posts or pins are located to be flush each with its associated edge of said base and the face thereof, and



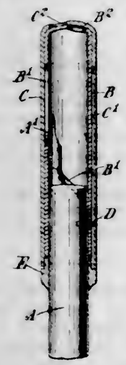
each of which is narrower in width than the width of its associated recess thus spacing each post or pin at each side apart from the adjacent wall of its recess, each post or pin being provided in its rear side with a slot.

1,476,106. OPERATION OF CUPOLA FURNACES. LUDWIG JOSEF ROCHLITZ, Stuttgart, Germany. Filed July 2, 1920. Serial No. 393,753. 4 Claims. (Cl. 263—33.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



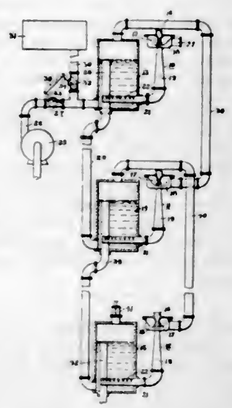
1. The herein described method of operating cupola furnaces employing liquid or gaseous fuel, which consists in subdividing a complete charge into parts, and successively feeding the parts of the charge in an inclined path to the furnace hearth so that one part is completely melted before a succeeding part is fed thereto.

1,476,107. FOUNTAIN PEN. THOMAS EDWARD RUDDERHAM, Sudbury, England. Filed Jan. 29, 1923. Serial No. 615,676. 6 Claims. (Cl. 120—42.)



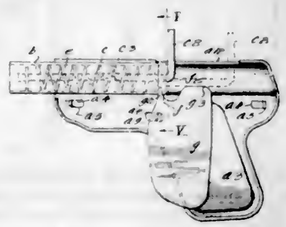
1. In a fountain pen, the combination with the body portion of the pen, and a writing nib carried at one end thereof, of a cap for the nib comprising two parts whereof one is rotatable relatively to the other about the longitudinal axis of the pen, which cap is slidable endwise on said body portion and has in one of said parts an orifice to permit the nib to project through it when the cap is at the limit of its movement in one direction, the other of said parts constituting a closure member for said orifice, and means operative with the sliding movement of the cap and arranged to rotate one of said parts in relation to the other to close and open the orifice when the cap is moved endwise in either direction on said body portion, substantially as described.

1,476,108. FLUID-TRANSLATING DEVICE. HENRY F. SCHMIDT, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 12, 1921. Serial No. 460,852. 12 Claims. (Cl. 230—13.)



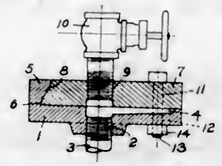
1. In an ejecting apparatus, a plurality of ejectors operating in series, and means for definitely proportioning the work of compression among the ejectors.

1,476,109. TOY PISTOL. WILLIAM F. SCHMIDT, Wyandotte, Mich., assignor to All Metal Products Company, Wyandotte, Mich., a Corporation of Delaware. Filed July 1, 1922. Serial No. 572,254. 5 Claims. (Cl. 124—12.)



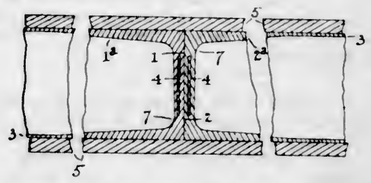
2. In an apparatus of the kind described, a stock, a spring, a spring-retaining part in said stock, a spring-retracting rod extending through said spring-retaining part and adapted to engage over the edge thereof in its retracted position, and a trigger piece having a lug engaging between said spring-retaining piece and the adjacent end of the spring and adapted to displace said rod from its engagement with the spring-retaining piece.

1,476,110. WELL-CAPPING DEVICE. FREDRICK SIEVERS, McKeesport, Pa. Filed Apr. 12, 1920. Serial No. 373,453. 6 Claims. (Cl. 166—15.)



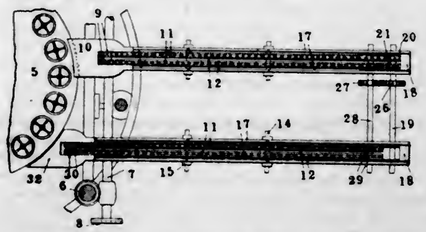
1. A well-capping device comprising a cut-off valve and means movable across the mouth of a well for securing the said valve thereto, the said means including a continuously open channel for permitting the free flow of fluid from the well while the said valve is being applied.

1,476,111. INNER TUBE FOR PNEUMATIC TIRES. MONTAGUE ERNEST SIMES, Bendigo, Australia. Filed Oct. 18, 1920. Serial No. 417,611. 3 Claims. (Cl. 152—13.)



3. A pneumatic tire inner tube adapted to be expanded throughout its length by inflation and having two ends which will butt together, each of said ends having a flat, transverse outer face and being of thickened material relatively to the thickness of the body of the tube, and the sides of the tube adjacent the ends being thickened and tapering away from said ends to the thickness of the remainder of the tube.

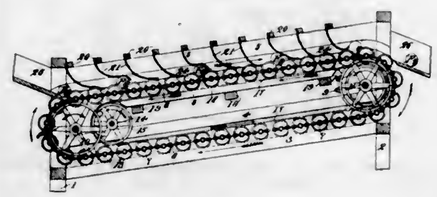
1,476,112. CONVEYER. CHESLEY T. SMALL, St. Louis, Mo., assignor to First National Bank in St. Louis, St. Louis, Mo. Original application filed Aug. 8, 1917, Serial No. 184,990. Divided and this application filed Sept. 27, 1920. Serial No. 413,186. 6 Claims. (Cl. 198—189.)



1. In a conveyer, the combination with a rail provided with a channel, of a sprocket chain in said channel and projecting above the same to receive an article to be conveyed, cross bars carried by said rail, and guide rails adjustably carried by said cross bars.

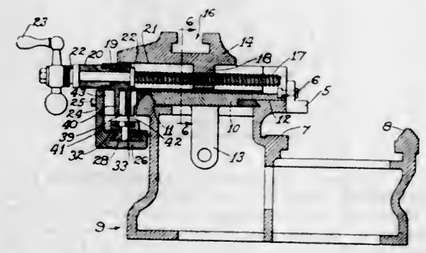
5. In a conveying device, the combination with a receptacle supporting table, of a driven shaft, a conveyer comprising a pair of sprocket chains driven from said shaft, a second conveyer also comprising a pair of sprocket chains, a second shaft supporting both chains of said first named conveyer but driven by one chain thereof only, and means for driving said second conveyer from said second shaft.

1,476,113. FRUIT-HANDLING APPARATUS. FRED STEBLER, Riverside, Calif., assignor to Stebler Parker Co., Riverside, Calif., a Corporation of California. Filed Sept. 5, 1922. Serial No. 586,166. 5 Claims. (Cl. 146—202.)



1. A machine for conveying and cleaning fruit comprising an inclined conveyor composed of spiral surfaced rolls, fixed position cleaning devices arranged adjacent said conveyor rolls for cleaning fruit on said conveyor, a track on which said rolls travel and movable in a direction opposite to that of the conveyor whereby said rolls are given added rotative speed, whereby said fruit is given a multiplicity of changing positions.

1,476,114. LATHE AND TAPER-CUTTING MEANS FOR THE SAME. GUSTAF DAVID SUNDSTRAND, Rockford, Ill., assignor to Rockford Tool Company, Rockford, Ill., a Corporation of Illinois. Filed June 7, 1919. Serial No. 302,495. 7 Claims. (Cl. 82—17.)



1. A lathe having, in combination, a longitudinally slidable carriage, transverse ways on said carriage, a bearing block slidable in said ways, the upper portion of said bearing block being slotted, additional transverse ways on said carriage, a tool support on said additional ways, said tool support having a lug entering the slot in said bearing block and adapted to engage a feed screw.

1,476,115. METHOD OF FORMING LINERS FOR METAL CAPS AND ARTICLE PRODUCED THEREBY. THOMAS L. TALIAFERRO, Chicago, Ill. Filed Sept. 1, 1922. Serial No. 585,658. 6 Claims. (Cl. 154—40.)



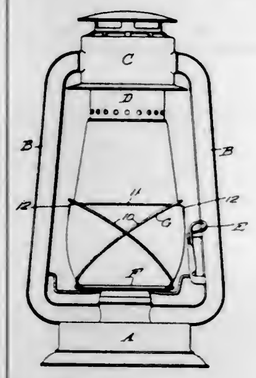
1. The method of forming liner material which consists in coating a sheet of pulp board with a heated solution of a wax and a gum and then applying a sheet of oiled paper to such coated surface, and pressing the two sheets firmly together.

1,476,116. ELECTRICAL HEATING OR RESISTANCE UNIT. HOWARD A. THOMPSON, Pittsburgh, Pa. Filed Feb. 24, 1921. Serial No. 447,411. 9 Claims. (Cl. 219—64.)



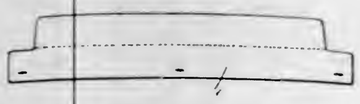
1. An electrical heating or resistance unit comprising a coil of wire embedded in pyrex glass.

1,476,117. LANTERN. FREDERICK W. VAN DUYN, New York, N. Y., assignor to R. E. Dietz Company, New York, N. Y. Filed Sept. 21, 1922. Serial No. 589,666. 3 Claims. (Cl. 240—33.)



1. In combination in a lantern, a globe supporting plate, spaced holding members thereon arranged to bear against the globe, and a globe having a circumferential shoulder arranged to be engaged by said holding members for holding the globe on the supporting plate, and said globe also having cam-like portions which diverge from said shoulder and are adapted by turning the globe to engage said holding members to move the same into holding engagement with said shoulder.

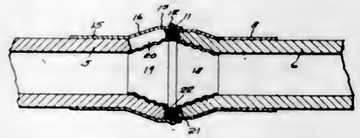
1,476,118. COLLAR. JOHN M. VAN HEUSEN, Boston, Mass., assignor to Van Heusen Products, Inc., a Corporation of Delaware. Filed July 16, 1921. Serial No. 485,194. 3 Claims. (Cl. 2—67.)



1. A folding collar made up of a neckband portion and a folding or turned down portion woven integral therewith of multiple-ply interwoven fabric, the neckband and folding portion being connected by a stretched curvilinear edgefold portion of increased flexibility.

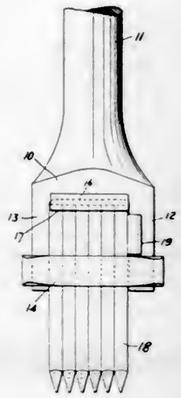
3. The method of providing a fold portion of increased flexibility in a fabric collar which consists in permanently distorting the fabric along a portion thereof by subjecting the same to a mechanical and a chemical treatment.

1,476,119. HOSE COUPLING. JOHN R. VAN NAGELL, Reno, Nev., assignor to Cora M. van Nagell and Albert W. Edwards, both of Reno, Nev. Filed Dec. 20, 1921. Serial No. 523,710. 2 Claims. (Cl. 285—75.)



1. A sheet metal hose coupling comprising in combination a pair of sheet metal corrugated thimbles of frusto conical shape throughout their length having outturned circumferential flanges at their larger ends, a compressible gasket lying between said flanges, a sheet metal male and female member each comprising a hose encircling portion, a portion of larger diameter than the hose encircling portion and a flaring connecting portion conforming to the taper of the associated frusto conical thimble throughout the major portion of the length of the latter, the male member having outstanding projections upon its part of largest diameter and the female member having stamped cam recesses formed therein for the reception of said projections.

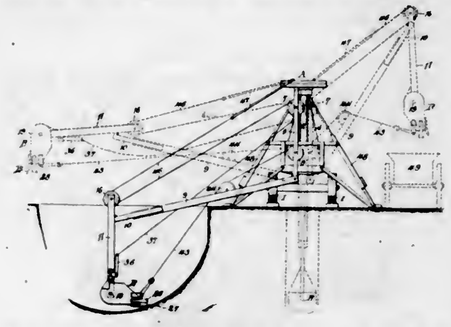
1,476,120. BUSH CHISEL. WILBER H. VAN SICKEL, Langhorne, Pa., assignor to Thos. H. Dallett Co., Philadelphia, Pa., a Corporation of New Jersey. Filed Sept. 30, 1920. Serial No. 413,707. 7 Claims. (Cl. 125—41.)



1. A bush chisel having jaw members for the reception of cuts, tension members shrunk in position on the jaw members connecting the jaws to each other to prevent spreading of the outer ends thereof, and fixed cooperative retaining means on the jaws and the tension members arranged to readily permit the positioning of the tension members when expanded by heat and fixedly secure them in position when shrunk.

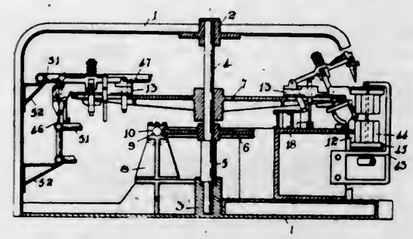
1,476,121. EXCAVATING SCOOP. GEORGE E. WAGNER, ROBERT REX DOWNIE, and ROBERT M. DOWNIE, Beaver Falls, Pa., assignors to Keystone Driller Company, Beaver Falls, Pa., a Corporation of Pennsylvania. Filed Oct. 17, 1919. Serial No. 331,268. 15 Claims. (Cl. 214—138.)

1. In an excavating machine, a swinging boom mounted for sidewise and up and down movements, a pivoted scoop having an axis of movement at approximately the center of gravity of the scoop, said scoop having one end open to constitute the mouth of the scoop and the other end closed and a suspension stick for the scoop carrier near one end by the boom and at the other end carrying the



scoop at approximately the center of gravity of the latter, the closed end of the scoop being curved on the axis of said center.

1,476,122. APPARATUS FOR THE MANUFACTURE OF ICE-CREAM CONES. ALEXANDER J. WALKER, Owen Sound, Ontario, Canada, assignor to Henry Paterson Walker, Hepworth, Ontario, Canada. Filed Apr. 28, 1921. Serial No. 465,301. 24 Claims. (Cl. 107—58.)

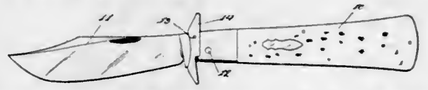


1. In apparatus for the manufacture of ice cream cones, the combination of a frame; a movable carrier supported on the frame; a plurality of stationary mold sections secured on said carrier; a movable mold section hinged at its lower end to each of the stationary sections; and means supported on a stationary part adapted to clean the mold sections as they pass.

14. In apparatus for the manufacture of ice cream cones, the combination of a frame; a rotary carrier supported on the frame; a series of molds arranged circumferentially of the carrier, each mold being formed of a stationary section secured to the carrier and a movable section hinged at its lower end to the stationary section; levers pivoted on the stationary sections having hooked ends adapted to retain the movable sections in closed position; means supported on the frame adapted to unlock the movable sections; means supported on the frame adapted to return the movable sections to closed position; a series of arms pivotally supported on the carrier; core members pivoted on said arms adapted to co-operate with said molds; means for regulating the swing of said core members upon their pivots; cams supported at the under side of the carrier; cams supported on the frame; and rods secured to said arms adapted to bring and lock the arms in contact with the carrier, said cams being shaped to return the arms to their lower position with diminished speed towards the end of their movement.

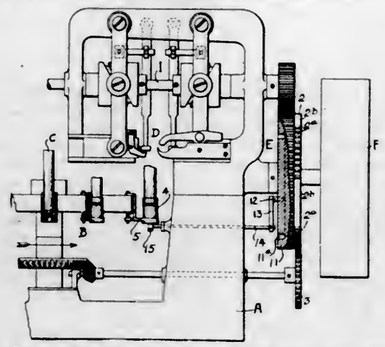
24. In apparatus for the manufacture of ice cream cones, the combination of a movable carrier; a mold supported on said carrier; an arm pivotally supported on the carrier; a core pivoted on said arm adapted to co-operate with the mold; cam means for actuating said arm; a rod slidable in said arm; a locking member pivotally connected with said rod; a cam adapted to be engaged by said locking member to lock the arm; and cam means adapted to operate said locking member to lock the arm.

1,476,123. LOCK AND GUARD FOR KNIVES. WILLIAM F. WATSON, Olean, N. Y., assignor to Union Cutlery Company, Inc., Olean, N. Y., a Corporation of New York. Filed Oct. 20, 1921. Serial No. 508,987. 1 Claim. (Cl. 30—10.)



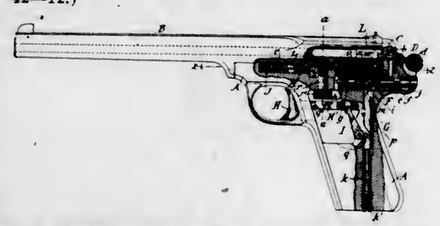
In a pocket knife, the combination of an encasing handle having a bolster, a blade pivoted to the handle bolster, a locking member pivoted upon the side of the blade and adjacent the end of the bolster and adapted to lie against the front side of the handle in closed position of the blade and across the end of the bolster in open position of the blade with the ends projecting beyond the front and back of the bolster, and a projecting lug on the end of the bolster adapted to engage with a corresponding shoulder on said locking member thereby securely locking the parts when the blade is in open position.

1,476,124. COLLAPSIBLE TUBE-CLOSING MACHINE. ISAAC W. WEPPLO, Chicago, Ill. Filed Oct. 28, 1921. Serial No. 511,201. 8 Claims. (Cl. 113—54.)



1. In a collapsible tube folding machine, the combination with a turn-table and tube folding devices, of means on said table for supporting tubes to be closed, said means including elements for yieldingly maintaining the tubes in alinement with said folding devices.

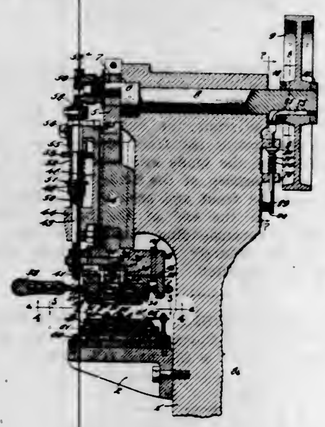
1,476,125. TARGET PISTOL. HAROLD WESSON and EDWARD S. POMEROY, Springfield, Mass., assignors, by mesne assignments, to Smith and Wesson, Inc., Springfield, Mass., a Corporation of Massachusetts. Filed July 22, 1921. Serial No. 486,680. 20 Claims. (Cl. 42—12.)



1. A pistol comprising a frame and stock formed with a breech block, and a barrel mounted to swing on a

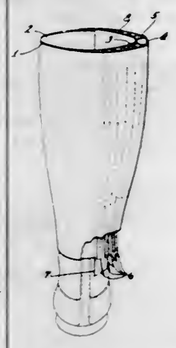
vertical axis located forward of the breech block, and a hammer formed as a slide movable longitudinally in a slideway in the frame, the hammer having a lower slide portion entering the slideway in the frame, and an upper exterior head extending to the rear of the breech block, with a firing pin movable through an orifice in the breech block.

1,476,126. EMPLACING APPARATUS. EDWIN L. WIEGAND, Pittsburgh, Pa. Filed Sept. 4, 1920. Serial No. 408,360. 14 Claims. (Cl. 18—1.)



6. In a machine of the character set forth, the combination of two members comprising respectively a support for a receiving element and a carrier for an entering element, one of said members being movable toward and from the other, means for removing the entering element from the carrier when the entering element is emplaced within the receiving element, a rotary driving means having two operating parts eccentric of its axis of rotation, operative connections between one of such parts and the movable one of the aforesaid members, and similar connections between the other operating part of the driving means and the removing means.

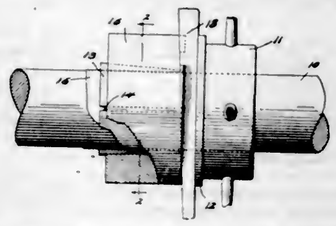
1,476,127. PUTTY. REMSEN T. WILLIAMS, Great Neck, N. Y. Filed Oct. 7, 1922. Serial No. 592,993. 12 Claims. (Cl. 30—2.)



1. A device of the class described embodying a leg covering adapted to overlie the inside of the leg, means for spacing said leg covering from the leg to form an intermediate air space, and deflector means adapted, when the wearer moves through space, to direct air into the air space for the purpose of keeping the leg cool.

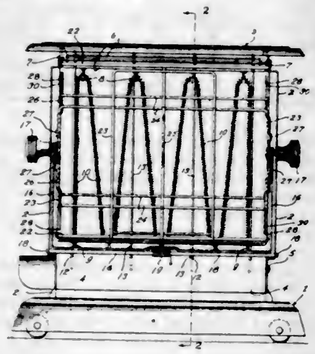
12. As a new article of manufacture a putty formed with air channels open to the atmosphere substantially as described.

1,476,128. DEVICE FOR REMOVING PULLEYS FROM SHAFTS. WILLIAM S. WESTON, Columbia, S. C. Filed Jan. 16, 1922. Serial No. 529,795. 10 Claims. (Cl. 29—85.)



1. A device of the class described including, in combination, a collar, means for engaging a shaft to prevent movement of the collar in one direction, and means to cooperate with the collar and movable transversely of the shaft, to exert equal and oppositely directed forces on the collar and the object to be moved.

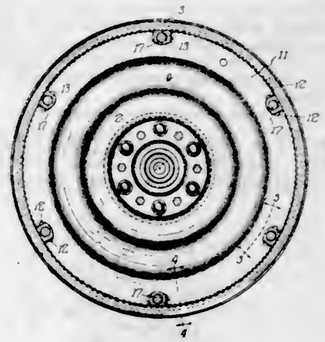
1,476,129. ELECTRIC TOASTER. LOUIS H. WILKINSON, Meriden, Conn., assignor to Manning, Bowman & Company, Meriden, Conn., a Corporation of Connecticut. Filed Feb. 1, 1923. Serial No. 616,246. 9 Claims. (Cl. 219—19.)



1. In an electric toaster, the combination of a frame having a heating element, a yoke pivoted thereto, a slice holder frame having its side members centrally pivoted to the arms of said yoke so as to be reversible relatively to said heating element, said yoke tending to move toward the plane of said heating element, symmetrical doors each hinged at one edge to said slice holder frame, the hinges of the two doors being symmetrical with relation to the axis of the pivots of said slice holder, and means tending to hold said doors in closed position.

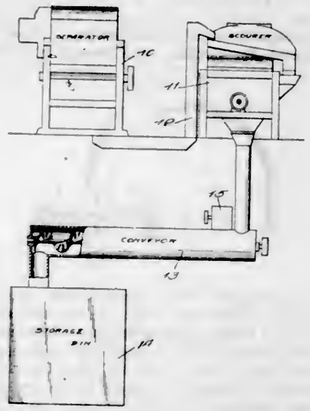
1,476,130. METAL DISK WHEEL. WILLIAM ERASTUS WILLIAMS, Wilmette, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Sept. 27, 1922. Serial No. 590,953. 7 Claims. (Cl. 301—63.)

7. In a device of the class described, a tread portion of a wheel having two concentric bearing edges adapted to furnish a bearing support for a demountable rim on the inside and outside edges thereof and spaced asunder,



and the two bearing edges connected across at intervals only, in combination with means for holding a demountable rim on the said edges.

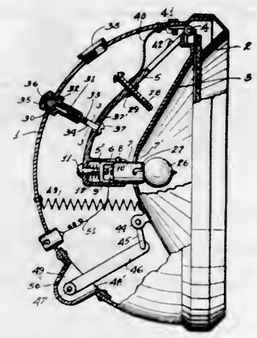
1,476,131. METHOD OF TREATING GARLICKY WHEAT. RALPH L. WINTERS and JOHN H. WINTERS, Clarksville, Tenn. Filed June 20, 1923. Serial No. 646,630. 4 Claims. (Cl. 130—18.)



1. The method of treating garlicky wheat, consisting in cleaning and scouring the wheat, adding to the wheat a dehydrating compound, storing the wheat for a prolonged period to permit the dehydrating compound to act upon the onions and garlic contained therein and recleaning the wheat.

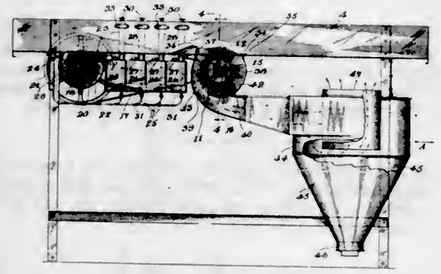
1,476,132. MEANS FOR CONTROLLING THE LIGHT RAYS OF REFLECTOR LAMPS. ARTHUR CHARLES WOOD, Mansfield, Ohio. Filed Sept. 13, 1921. Serial No. 500,427. 11 Claims. (Cl. 240—41.)

1. In a means for controlling the rays of light of a reflector lamp, a casing, a reflector tiltably mounted in the casing, means to tilt the reflector, a bracket pivoted to the casing to swing between the casing and reflector and adjustable means associated with the pivoted bracket



to contact with the reflector, whereby simultaneously movement is imparted to the bracket and reflector.

1,476,133. CLEANING MACHINE. GEORGE L. ALLEN and RICHARD C. THOMPSON, Savannah, Ga., assignors to The Allen Engineering and Manufacturing Company, a Partnership composed of George L. Allen, Warren Butler, and J. J. Weigland, Savannah, Ga. Filed May 29, 1922. Serial No. 564,323. 7 Claims. (Cl. 15—40.)

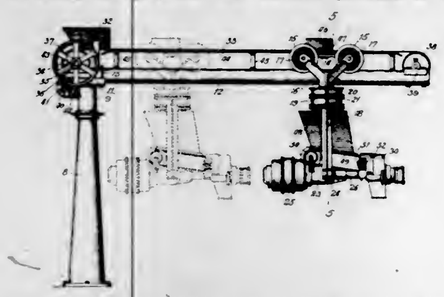


1. A cloth cleaning machine comprising a table having a slot in its top, a rotary brush mounted beneath said table and a portion of the same extending through said slot, means for rotating said brush, means secured to the table for holding a plurality of cleaning fluids, means for selectively supplying one of said fluids to said brush and at a point beneath the surface of the table.

1,476,134. MOLDING MACHINE. ELMER O. BEARDSLEY and WALTER F. PIPER, Chicago, Ill., assignors to The Beardsley & Piper Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 28, 1921. Serial No. 518,188. 29 Claims. (Cl. 22—36.)

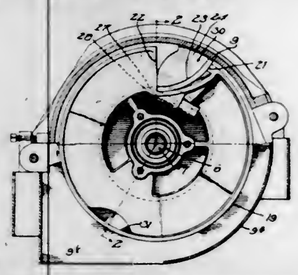
1. In a molding machine, the combination of a substantially horizontal supporting track, a sand projector, means for continuously feeding sand to the projector and

a projector support movable longitudinally of said track to bring the projector over different portions of the



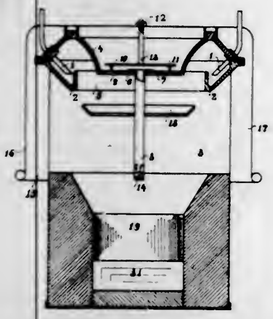
flask, said projector being retained on said support so it will project sand at a substantially fixed angle of delivery, and a motor for driving the projector.

1,476,135. MOLDING MACHINE. ELMER O. BEARDSLEY and WALTER F. PIPER, Chicago, Ill., assignors to The Beardsley & Piper Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 25, 1922. Serial No. 531,603. 14 Claims. (Cl. 22—36.)



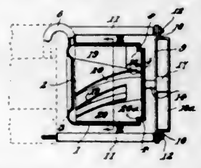
1. In a molding machine, the combination of a suitable support, of a rotor provided with a projector blade, means for feeding sand to the blade, and air-displacing means on the rotor and in the zone of rotation of the blade.

1,476,136. BURNER FOR THE THOROUGH COMBUSTION OF LIQUID FUEL. ERICH BECKER, Bad Sooden, Germany. Filed Mar. 10, 1921. Serial No. 451,360. 7 Claims. (Cl. 158—91.)



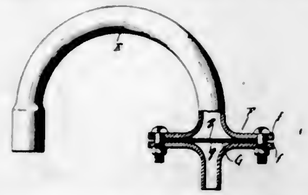
1. An apparatus for the combustion of liquid fuels comprising in combination a combustion chamber made of refractory material, supply pipes for the liquid fuel above said combustion chamber, a circular gutter-shaped gasifier between said combustion chamber and said supply pipes, and a circular vaulted cover of said gasifying gutter united with the outer edge of said gasifying gutter and designed to conduct along the inner surface of its inner part the gases generated in said gasifying gutter and along the outer surface of its inner part the primary air for combustion, both the gases and the air in downward direction inclined towards the center of the combustion chamber so that the flame formed by the ignited gases is forced by the inflowing primary air to adopt a downward direction.

1,476,137. FAN STRUCTURE FOR AIR-COOLED MOTORS. JOHN BILAN, Flint, Mich. Filed May 24, 1923. Serial No. 641,193. 3 Claims. (Cl. 230—11.)



1. In a fan structure for air-cooled motors, a casing secured to the motor, a bracket traversing the forward end of the casing, supporting bars for the bracket secured to the motor, a shaft journaled in the bracket and casing, a fan secured to the shaft within the casing, a discharge conduit extending from the casing, said bracket comprising a pair of bars with one of the bars offset intermediate the ends and a belt pulley secured to the shaft intermediate the bracket bars.

1,476,138. TRANSFORMER. ROBERT V. BINGAY, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company, a Corporation of Pennsylvania. Filed Sept. 6, 1921. Serial No. 498,769. 9 Claims. (Cl. 220—85.)



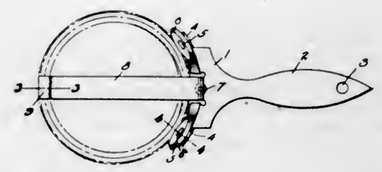
1. The combination with a transformer tank or the like, containing a fluid and having an enclosed space permitting the fluid to expand and contract, of means for permitting the passage of air to and from said space comprising a material in the path of the inflowing air adapted to mechanically separate moisture therefrom so as to prevent said moisture from entering said tank, said material being adapted to yield up moisture to dry air so as to be dried thereby.

1,476,139. FISHING BAIT. JOHN R. BINGHAM, Tacoma, Wash. Filed Sept. 23, 1920. Serial No. 412,157. 1 Claim. (Cl. 43—45.)



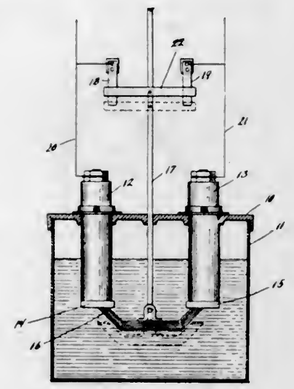
An artificial fish bait comprising a relatively narrow elongated body, a pair of substantially flat fins extending laterally from opposite faces of said body and running longitudinally thereof, each fin tapering in width from a medial point adjacent the forward end of the body toward each end thereof, the forward taper being considerably sharper than the rearward taper and the fins being shorter and of substantially less width than the body whereby oscillatory motion of the body without rotation is permitted, and said fins being wider adjacent the forward end of the body so as to impart a greater buoyancy thereto at its front end to cause the lure to rise in the water.

1,476,140. SEALING DEVICE. LUCIOUS D. BURLINGHAM, Hubbard, Ohio. Filed Mar. 1, 1922. Serial No. 540,243. 1 Claim. (Cl. 81—15.)



In a device of the class described, the combination with a yoke and a handle extending from the yoke, of an arm connected to and extending from the center of the yoke, a terminal finger extending from the arm for engaging and sliding upon the wall of a jar top, ears upon the ends of the yoke, wheels journaled on the ears and equidistant from the terminal fingers, said wheels being rotatable about axes radiating from the center of a jar top engaged by the arm.

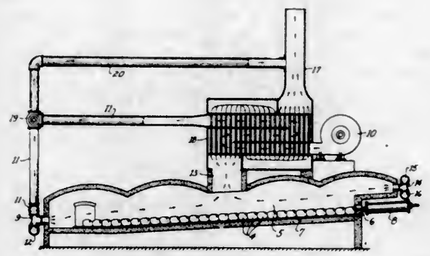
1,476,141. ELECTRIC SWITCH. GEORGE A. BURNHAM, Saugus, Mass., assignor to Sears B. Condit, Brookline, Mass. Filed Apr. 28, 1922. Serial No. 557,058. 9 Claims. (Cl. 200—150.)



1. A direct current electric switch having main current carrying components immersed in an insulating fluid, and arcing members disposed in and surrounded by air.

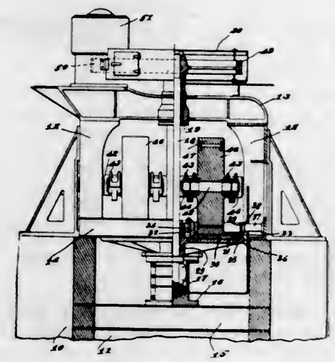
1,476,142. FURNACE. GRANT D. BRADSHAW, Pittsburgh, Pa. Filed June 9, 1921. Serial No. 476,148. 4 Claims. (Cl. 263—6.)

2. In a continuous heating furnace a heating chamber, means for passing articles to be heated in one end of said chamber and out of the other end thereof, means for passing hot gases into said chamber at both ends



thereof, and means for passing the said hot gases out of said chamber at some point intermediate the ends of said chamber.

1,476,143. DRY PAN. DAVIS BROWN, Bucyrus, Ohio, assignor to Hadfield Penfield Steel Company, Bucyrus, Ohio, a Corporation of Ohio. Filed May 26, 1922. Serial No. 563,904. 5 Claims. (Cl. 83—45.)

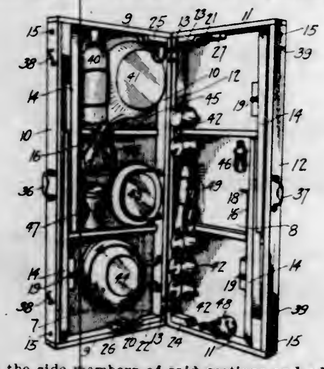


1. In an improved dry pan grinding machine, the combination of a vertically mounted rotatable pan, a rim on the periphery of said pan, a stationary rim located above and defining, with said first rim, an opening through which ground material may pass, and means for moving said rims relatively to each other to vary the width of said openings.

1,476,144. COMBINATION CAMP TABLE AND UTENSIL CARRIER. EVERETT L. CALVERT, Denver, Colo. Filed May 2, 1921. Serial No. 466,148. 1 Claim. (Cl. 190—12.)

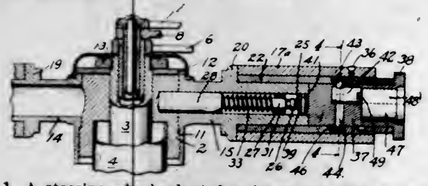
In a collapsible camp table, the combination of a pair of hinged, open-faced, box-like sections adapted to form a table top when open and a container when closed; a bolt secured to the end member of one of said sections and adapted to engage an opening formed on the end member of the opposite section for the purpose of holding said sections extended, said bolts having L shaped ends adapt-

ed to fit into grooves provided for the purpose of holding said bolts in the withdrawn position; resilient arms se-



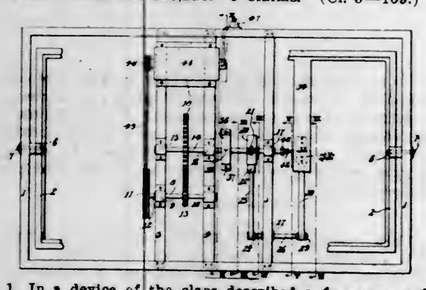
cured to the side members of said sections and adapted to extend parallel to said top and hold eating utensils against said top and legs pivotally connected to said sides.

1,476,145. STEERING WHEEL. FORREST L. CANTRALL, Oakland, Calif., assignor to Liberty Patents Syndicate, a Corporation of Nevada. Filed Feb. 8, 1919. Serial No. 275,869. 6 Claims. (Cl. 74—33.)



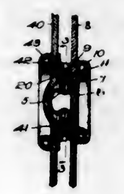
1. A steering wheel adapted to be secured to the steering post of an automobile, comprising a hub mounted for rotation on said steering post, a hollow arm extending from said hub, a spider pivotally mounted on said arm, a rim secured to said spider, a bar bolt slidably engaging the spider and engageable with said arm to lock the spider and arm together, a bolt connected to said bar bolt and slidably mounted in said arm and hub and engageable with said steering post to lock the hub to said steering post, and means slidably mounted in said spider for simultaneously operating said bolts.

1,476,146. MECHANICALLY-OPERATED CRIB. ANTONIO CAPPABIANCA, Braddock, Pa. Filed Jan. 31, 1923. Serial No. 616,216. 5 Claims. (Cl. 5—109.)



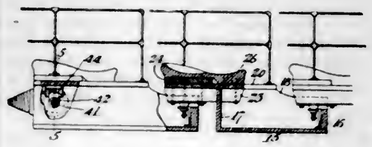
1. In a device of the class described a frame, a cradle pivotally carried by said frame, transverse brace bars carried by said frame, a driven shaft carried by said brace bars, a longitudinal shaft carried by said brace bars and operatively connected to said driven shaft, a connection between said longitudinal shaft and cradle for rocking the latter, and means carried by said brace bars for operating said driven shaft.

1,476,147. SEPARABLE FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Mar. 8, 1921. Serial No. 450,736. 8 Claims. (Cl. 24—216.)



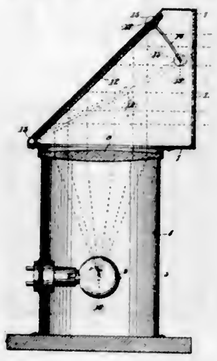
1. A separable fastener comprising, in combination, a stud having a head and a neck, and a socket including a casing and a flat sheet metal spring in the casing, said spring having a stud-receiving aperture and lateral peripheral notches and projections from the casing entering said notches.

1,476,148. CAR FOR COASTER RAILWAYS. FREDERICK A. CHURCH, Venice, Calif. Filed Nov. 28, 1921. Serial No. 518,211. 1 Claim. (Cl. 105—4.)



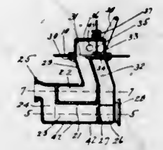
A car for coaster railways comprising, a body, an axle swingingly mounted on said body, wheels on said axle, a rigid seat extending across one end of said body and a saddle extending forwardly from said seat.

1,476,149. PROJECTION LAMP. ISADORE COHEN, Elizabeth, N. J. Filed Feb. 2, 1922. Serial No. 533,621. 2 Claims. (Cl. 240—41.)



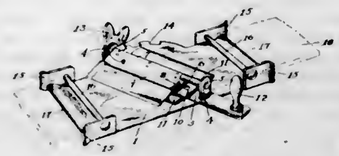
1. In a projection lamp of the class described, a housing provided with an opening, a condensing lens arranged within the housing below said opening, a source of light within the housing below said lens, an inclined reflector horizontally hingingly connected to said housing laterally of and above the outer edge of said lens to project light through said opening, a wall of said housing constituting a stop for the adjusting movement of said reflector to prevent the reflection of light rays above a horizontal line.

1,476,150. LOCOMOTIVE SUPERHEATER. MICHAEL M. CROWLEY, Sioux City, Iowa. Filed May 14, 1921. Serial No. 469,453. 4 Claims. (Cl. 122—462.)



1. In combination with a boiler of locomotive type, of a superheater header consisting of an integral casing supported within the smoke box and extending transversely across the same in its upper portion, said casing comprising a compartment disposed between the dry pipe of the boiler and the superheater units, a second compartment disposed upon the first compartment and receiving superheated steam from said superheater units, a third compartment disposed at the front of the other compartments and adapted to conduct superheated steam to the engine cylinders, said second and third compartments having upwardly projecting tubular extensions open at their upper ends and tightly secured at such upper end to the smoke box top plate, said plate having a single opening therethrough extending over the open ends of said extensions, a dome tightly mounted on the outer face of said top plate and enclosing said opening and adapted to establish communication between the extensions of the second and third compartments, said dome further provided with outlets adapted for communication with other steam actuated auxiliaries whereby superheated steam may be delivered to such auxiliaries, and a throttle valve mounted in the upper end of the extension of the third compartment, said valve extending through said dome and manually operable from the locomotive cab.

1,476,151. STROPPING MACHINE. RALPH P. CUMMINGS, South Portland, Me. Filed Feb. 27, 1922. Serial No. 539,707. 1 Claim. (Cl. 51—153.)



A stropping machine comprising a base member slidably mounted on a strop and having an arcuate rack thereon, a frame pivotally mounted on said base member and adapted to be swung through a part of the circumference of a circle, around a pivot, an oscillating member journalled in said frame, a blade holder, adapted to hold the blade yieldingly, rigidly secured to said oscillating member, a pinion rigidly secured to said oscillating member and in mesh with said rack on said base member, resilient supporting members beneath and in contact with the strop, and at a spaced distance from the cutting edge of the blade, fenders on the ends of the base member to properly guide the machine along the length of the strop, guards on the ends of the base member projecting upwardly for applying a slight frictional resistance to the progress of the machine along the surface of the strop, means for actuating the frame so as to place the blade in proper relation to the direction of movement of same while in the operation of stropping and for moving the base and frame along the strop, substantially as described.

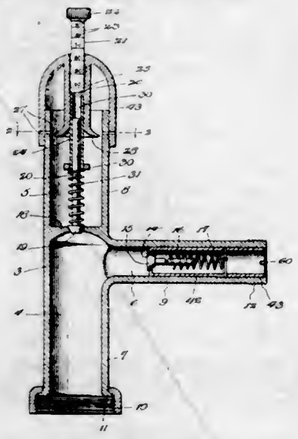
1,476,152. RECOVERY OF SUGAR FROM SUGAR-CANE MUD. ELIE DELAFOND, Habana, Cuba. Filed Feb. 12, 1920. Serial No. 358,019. 1 Claim. (Cl. 127—44.)

The method of sugar recovery, which comprises diluting press-cake or mud with cold water and formaldehyde, allowing the mud to settle, decanting the thin liquor containing some formaldehyde and applying this thin juice to the cane passing through the sugar mill, thereby supplying water for the crushing operation and some formaldehyde for at once coagulating gums and pectines and preventing inversion of the sugar in the juice from the fresh quantity of cane being crushed, and at the same time returning sugar from the mud into the cycle of operations for recovery therein.

1,476,153. CRYSTALLIZATION OF SUGAR. ELIE DELAFOND, Habana, Cuba. Filed Feb. 12, 1920. Serial No. 358,020. 2 Claims. (Cl. 127—58.)

1. A process for facilitating crystallization of sugar from sugar syrups, comprising subjecting the sugar syrup to the action of a mixture of carbonic acid gas and oxygen under a pressure above atmospheric pressure and removing the crystals from the solution before substantial access of air can be attained to said mixture of syrup and crystals.

1,476,154. PRESSURE GAUGE. WILBURN A. DE WOLFE, Consort, Alberta, Canada. Filed Aug. 17, 1921. Serial No. 492,918. 2 Claims. (Cl. 137—53.)

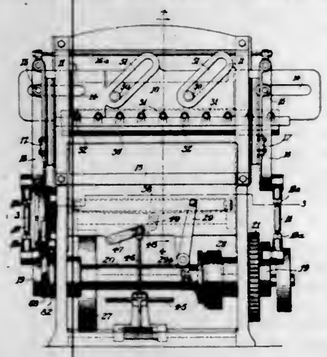


1. In a safety valve having a body provided with a chamber in connection with a pressure source, a removable cap fitting over one end of said body and adapted to close the chamber outwardly, said cap having apertures leading to the atmosphere from said chamber, an axial sleeve integral with said cap, an indicator member having threaded engagement with said sleeve, a valve normally closing communication between said chamber and the pressure source, said valve having a stem in sliding engagement with said member and a spring between said member and said valve tending to close the latter.

1,476,155. PAPER-CUTTING MACHINE. TALBOT C. DEXTER, Pearl River, N. Y. Filed Dec. 1, 1921. Serial No. 519,157. 10 Claims. (Cl. 164—54.)

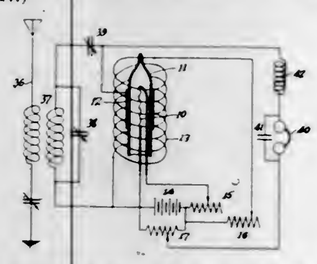
1. In a paper cutting machine, the combination with a vertically movable knife, of a paper clamp associated with the knife and pressed thereby upon the paper during the cut, driving mechanism, devices connecting the driving mechanism with the knife to actuate the latter,

clamp-actuating mechanism for additionally pressing the clamp upon the paper during the cut, and connecting means between said driving mechanism and said additional clamp-actuating mechanism to operate the latter



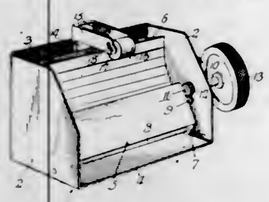
mechanism from the former, said means comprising a rotary driven disk connected with the clamp-actuating mechanism, and a rotary driving disk connected with the driving mechanism and having slipping frictional engagement with the driven disk.

1,476,156. RADIOFREQUENCY DEVICE. HAROLD POTTER DONLE, Meriden, Conn., assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn., a Corporation of Connecticut. Filed Apr. 7, 1921. Serial No. 459,304. 15 Claims. (Cl. 250—17.)



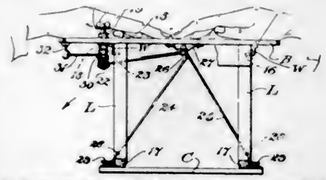
15. A non-regenerative source of radio frequencies, comprising a vacuum tube, a cathode therein, an anode on the outside of said tube, and a coil surrounding said anode.

1,476,157. CARD-SPREADING DEVICE. PAUL E. FLEMING, Chicago, Ill. Filed Oct. 21, 1921. Serial No. 509,445. 12 Claims. (Cl. 129—16.)



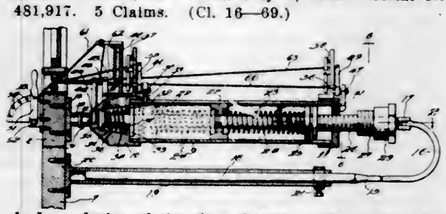
11. A card-spreading device, comprising a rockably mounted member, a group of cards arranged one behind the other and carried by said member, means for rocking said member, and means acting upon the rocking of said member to spread said cards.

1,476,158. PSYCHIC INSTRUMENT. GROVER C. HAFFNER, Los Angeles, Calif. Filed Nov. 26, 1921. Serial No. 518,030. 9 Claims. (Cl. 46—41.)



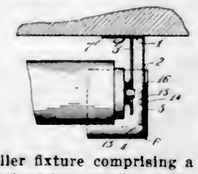
1. An instrument of the character described comprising a table mounted for tilting movement an indicator mounted for movement over the table, and means connected to the indicator and associated with the table so as to be operable by tilting of the table to effect movement of the indicator.

1,476,159. DOORCHECK AND THE LIKE. ADOLPH JAGMIN, Cicero, Ill. Filed July 1, 1921. Serial No. 481,917. 5 Claims. (Cl. 16—69.)



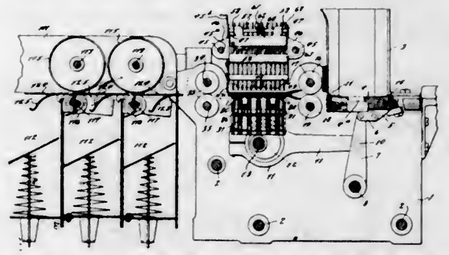
1. In a device of the class described, the combination of a cylinder, a pivotal mounting for one end thereof, a plunger working within said cylinder, a piston rod connected to said plunger and working through the other end of the cylinder, a stuffing box for the piston rod, an adjustable sleeve surrounding the piston rod and extending through said end of the cylinder to the interior thereof, a spring interposed between the inner end of said sleeve and plunger, whereby the pressure on said spring may be adjusted by adjustment of the sleeve, an air chamber in communication with the pivoted end of the cylinder, there being a port establishing communication between said air chamber and the outside atmosphere, a valve controlling said port, a valve interposed between the air chamber and the iner end of the cylinder and serving to permit the free movement of air from the air chamber into the cylinder while preventing backward movement of said air from the cylinder, another valve controlling direct communication from the pivoted end of the cylinder and to the outside atmosphere, another valve controlling direct communication from the swinging end of the cylinder to the outside atmosphere, means for normally retaining all of the valves in closed position, and means under the control of the operator permitting the valves to be opened a predetermined amount, substantially as described.

1,476,160. WINDOW-SHADE-ROLLER FIXTURE. CHARLES W. KIRSCH, Sturgis, Mich. Filed Nov. 23, 1922. Serial No. 602,905. 2 Claims. (Cl. 156—24.)



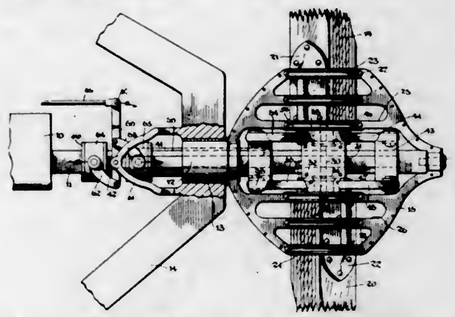
1. A shade roller fixture comprising a plate, a pair of perforated projections integral therewith and disposed at opposite end portions thereof whereby the plate is adapted to be rigidly secured to a window casing, a flange extending from the same edge of said plate as said projections and midway between the latter, the free end portion of said flange provided with means for engaging a pivot element of a shade roller, a second flange extending from the opposite edge of said plate parallel with the first named flange, a hood adapted to cover and hide from view the first named flange and the contiguous portion of a shade-roller engaged therewith, and interengaging formations on said last named flange and said hood for separably coupling them.

1,476,161. SORTING MACHINE. WILLIAM W. LASKER, Brooklyn, N. Y., assignor, by mesne assignments, to Powers Accounting Machine Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 17, 1922. Serial No. 544,417. 26 Claims. (Cl. 83—92.)



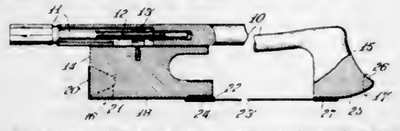
1. In a machine of the character described, analyzing mechanism; a receiving station; mechanism at the receiving station for receiving a card at that station; means controlled by a card being analyzed for setting said mechanism at the receiving station into operation; and means operated by the analyzing mechanism whereby said setting means is held in setting relation to the said mechanism for a definite period of time.

1,476,162. FLYING MACHINE. JOHN ALYUSIOUS LEHNERT, Howard, S. Dak. Filed Nov. 17, 1922. Serial No. 601,608. 3 Claims. (Cl. 170—163.)



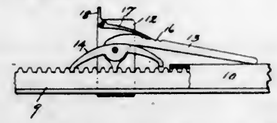
1. In a flying machine, a propeller shaft, a casing mounted on and constrained to rotate with the shaft, propeller blades, means for mounting the blades on the casing so as to constrain them to rotate with the casing while leaving them free to be shifted to vary their pitch, said mounting means including a cap for each blade, a series of rings connected to each cap, a web for each ring, said webs and said rings having registering grooves and ball bearings received in the registering grooves, means for preventing axial displacement of the blades and for directly connecting the same to the shaft by leaving the same free to be shifted including a bolt connecting the caps, a two-part clamp embracing the shaft and extending between the caps and having bearing cavities and a flanged stud carried by each cap and received in the adjacent bearing cavities of the clamp.

1,476,163. BOW FOR STRING INSTRUMENTS. CHARLES E. MATHA, Chicago, Ill. Filed Jan. 23, 1922. Serial No. 531,031. 2 Claims. (Cl. 84—282.)



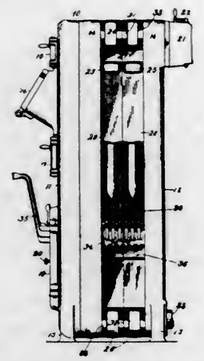
1. In a bow of the character described, a plurality of metallic strings, means for removably securing the strings in place and comprising, respectively, a flat body portion, to which the forward ends of the strings are intimately secured, terminating at one end with upwardly disposed bow-tip engaging lips or extensions, and a flat portion, to which the other ends of the strings are intimately secured, terminating at one end in an upwardly disposed portion provided with forwardly disposed sides or wings, adapted to engage with the rear and both sides of the frog of the bow.

1,476,164. DOOR AND WINDOW SHADE AND CURTAIN CLAMP. MICHAEL J. MANAHAN, Indianapolis, Ind. Filed Feb. 21, 1922. Serial No. 538,325. 3 Claims. (Cl. 156—23.)



3. A shade and curtain supporter comprising a pair of rods movable longitudinally of each other, one of the rods having a row of teeth, a pivoted lever on the other rod having a member engaging with the teeth on the first rod, an oscillating double-ended pawl mounted on the same pivot as the lever, the ends of which are adapted to be brought alternately into engagement with the teeth of the bar to prevent back movement of either of the rods and consequent shortening of their combined lengths, means for holding a given position of the lever, means on the rods to enter the woodwork by increase in the length of the device by a relative movement of the two rods, and shade-and-curtain holding means on the rod.

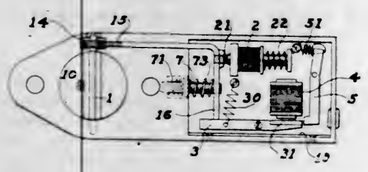
1,476,165. HEATING APPARATUS. ANDRÉ M. MERTZANOFF, Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill., a Corporation of New Jersey. Filed Oct. 18, 1917. Serial No. 197,289. 13 Claims. (Cl. 237—18.)



1. An apparatus of the character described comprising end and intermediate sections enclosing a fire pot and a combustion chamber; each of said intermediate sections

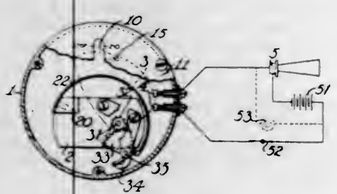
including a continuous, peripheral water compartment having inwardly projecting portions extending downwardly from the upper end of said combustion chamber and terminating intermediate the upper and lower ends thereof, said portions forming passages to conduct the products of combustion from said combustion chamber; the outer exposed wall portions of said sections constituting the heat emitting surfaces whose total area is substantially double that of the interior wall portions which constitute the heat absorbing surfaces, substantially as specified.

1,476,166. AUTOMOBILE THEFT PREVENTER. HARRY R. MITCHELL, Seattle, Wash., assignor to Mitchell Products Company, Seattle, Wash., a Corporation of Washington. Filed May 31, 1922. Serial No. 564,919. 10 Claims. (Cl. 70—50.)



1. In combination with an engine control member movable selectively into operative position to prevent starting of the engine, and into inoperative position, electromagnetic means for moving said control member into operative position, a latch for retaining it in opeative position, and electromagnetic means for releasing said latch.

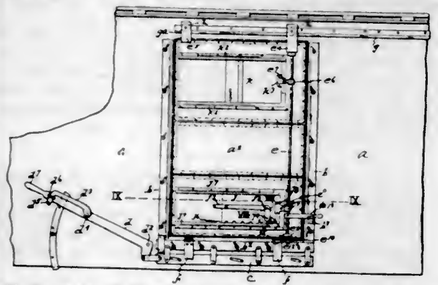
1,476,167. SIGNALING MOTOR-TEMPERATURE INDICATOR. HARRY R. MITCHELL, Seattle, Wash., assignor to Mitchell Products Company, Seattle, Wash., a Corporation of Washington. Filed June 12, 1922. Serial No. 567,573. 4 Claims. (Cl. 73—52.)



1. A temperature indicator including a casing having an elongated graduated sight opening in one side thereof, a pivoted indicating plate within the casing and having an arcuate edge eccentric to the pivot axis, and thermally operated means within the casing for actuating the said plate to cause its arcuate edge to be advanced or retracted along said sight opening, said thermally operated means comprising a chambered part having an inlet thereto and an outlet therefrom, an expansible element disposed exteriorly of said part and within the zone of heat radiated therefrom, said element having a free end and connections between the said free end of the said element and the indicating plate.

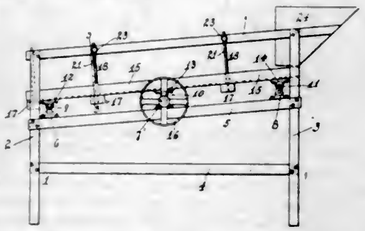
1,476,168. CAR DOOR. JOHN MONTGOMERY, Toronto, Ontario, Canada. Filed Aug. 14, 1920. Serial No. 403,539. 5 Claims. (Cl. 20—23.)

3. The combination with a freight car having a doorway in its wall, an outside sliding door adapted to close said door-way, an auxiliary door adapted to close a portal in said door, means upon said door adapted to force the same into close engagement with the wall surrounding



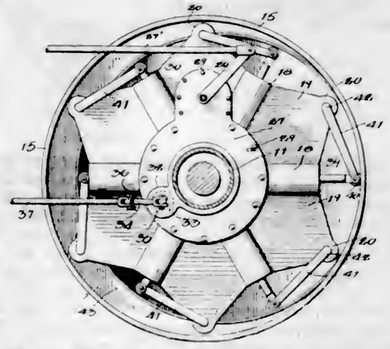
said door-way, said close engaging means being adapted to lock said auxiliary door in its closed position.

1,476,169. SLUICE BOX. FRANK S. MORGAN, Berkeley, Calif. Filed May 22, 1922. Serial No. 562,642. 5 Claims. (Cl. 83—88.)



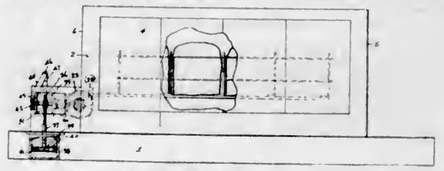
1. In a sluice box, a frame, a plurality of short radius cranks journaled on said frame, and adapted to be rotated, a sluice trough mounted on said cranks, traps in the bottom of said sluice trough, rakes mounted on said frame and extending into said troughs to agitate the dirt therein as the trough is raised and lowered and reciprocated by said cranks, and flexible strips secured on said rakes above the trap, said strips lying in a plane parallel to the plane of the bottom of the trap and extending on both sides of the rakes.

1,476,170. BRAKE APPARATUS FOR MOTOR VEHICLES. FRED H. MORLAN, Fairfield, Ill. Filed Aug. 2, 1921. Serial No. 489,226. 18 Claims. (Cl. 188—91.)



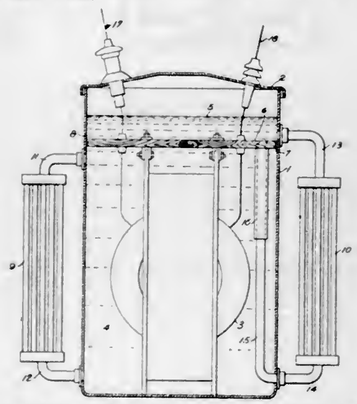
1. A brake apparatus of the character described comprising a body of liquid, a retainer therefor, means for increasing the volume of liquid within said retainer, and means adapted to be brought into position for braking action by the increase of said liquid.

1,476,171. TOASTER. HOWARD S. MURRAY, San Francisco, Calif. Filed July 1, 1922. Serial No. 572,321. 5 Claims. (Cl. 161—16.)



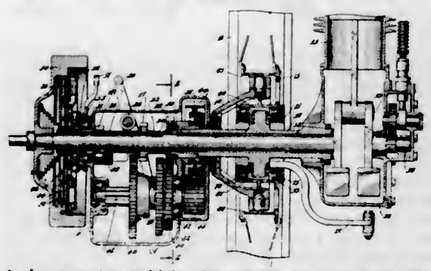
1. A device such as described comprising spaced burners; a bread carrying rack adapted to be arranged between said burners; grid members between said burners and the bread carrying rack adapted to be heated to incandescence by said burners; and automatic means for removing said rack from between said burners.

1,476,172. TRANSFORMER. LOUIS C. NICHOLS, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Sept. 27, 1920. Serial No. 413,064. 5 Claims. (Cl. 252—191.)



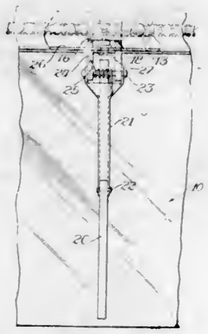
1. In combination a tank adapted to contain electrical apparatus immersed in oil, a heat insulating barrier dividing said oil into a lower major and an upper minor body, an oil circuit connected with said minor body, including means whereby said circuit receives heat from said major body for causing a circulation in said circuit, and means for cooling the oil in said circuit.

1,476,173. STEERING-WHEEL DRIVING MECHANISM. ALDEN E. OSBORN, New York, N. Y. Filed Apr. 4, 1921. Serial No. 458,492. Renewed Feb. 27, 1923. 7 Claims. (Cl. 180—13.)



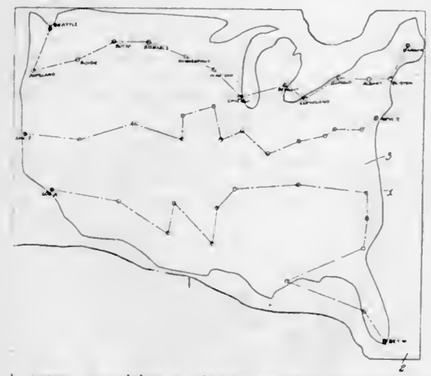
1. In a motor vehicle the combination of a traction wheel, a support for said wheel about which said wheel can rotate, an axle on which said support is pivotally mounted, a driven gear rotatable about said axle and having driving connection with said traction wheel, and a casing enclosing said gear and attached to the end of the axle passing thru said gear and forming a connecting member between the axle and the main part of the vehicle.

1,476,174. CLEANER FOR WINDSHIELDS AND THE LIKE. FRANK B. PARKER and HERBERT R. GOODFELLOW, Chicago, Ill. Filed Nov. 15, 1922. Serial No. 601,006. 3 Claims. (Cl. 15—253.)



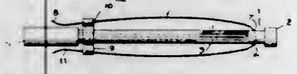
1. A cleaner of the character described embodying a shaft extending in a direction across a window or screen, means for rotating the shaft, a traveling member connected with the shaft, means whereby the rotation of the shaft will cause the said member to move therealong, a wiper pivotally connected with said traveling member, means tending normally to hold the wiper against the window, and rollers connected with the said traveling member on opposite sides of the said shaft and movable across the adjacent face of the window or screen.

1,476,175. GAME. PHILIP R. PERKINS, Columbus, Ohio. Filed July 30, 1921. Serial No. 488,579. 1 Claim. (Cl. 46—63.)



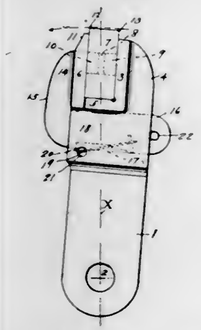
A game comprising a playing surface having a map provided thereon, the principal localities on said map serving as stations, the stations being grouped together to produce a route having starting and terminating points remote from each other, time tables containing a list of the names of the stations involved in said route, grouped multiple departure indicia provided on said time tables opposite the name of each of said stations, and an indicator having indicia thereon corresponding to one of the indicia of each group of the departure indicia, whereby when said indicia corresponds with one of the group of indicia of the time table game pieces may be moved to traverse the stations set forth in said route.

1,476,176. HAIR WAVER. WILLIAM E. PHILLIPS and EDNA G. PHILLIPS, Vallejo, and ARTHUR R. THOMSON, San Francisco, Calif. Filed Mar. 16, 1923. Serial No. 625,650. 4 Claims. (Cl. 132—33.)



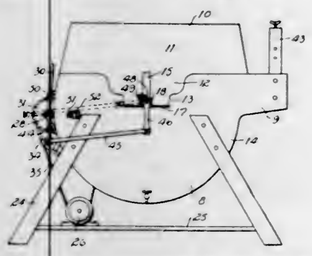
1. A hair waver comprising a tubular body member around which hair to be curled or waved is adapted to be wound, means associated with the body member for retaining the hair wound thereon and a heating iron adapted to be inserted into the tube, which iron comprises a resilient metal piece bent back upon itself and adapted to frictionally engage with the inner side of the tubular member.

1,476,177. ROTARY PIVOTED HAMMER. HAROLD M. PLAISTED, St. Louis, Mo., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 25, 1922. Serial No. 603,316. Renewed Sept. 19, 1923. 9 Claims. (Cl. 83—11.)



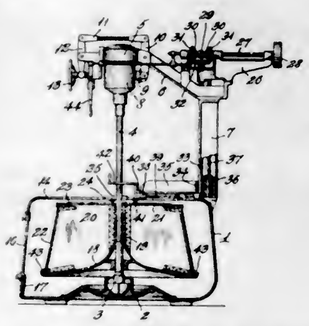
1. A rotary pivoted hammer comprising a shank adapted for pivotal mounting at one end, and having a head plate forming one part of a jaw clamp, a movable plate piece operatively connected to said head and forming the opposing part of the jaw clamp, a block having a plurality of operative edges at front and back face and adjustably mounted in said jaw clamp, and means to fasten the jaws together.

1,476,178. WASHING MACHINE. LEONADUS C. PORTENFIELD, St. Louis, Mo. Filed Oct. 24, 1921. Serial No. 509,821. 1 Claim. (Cl. 68—20.)



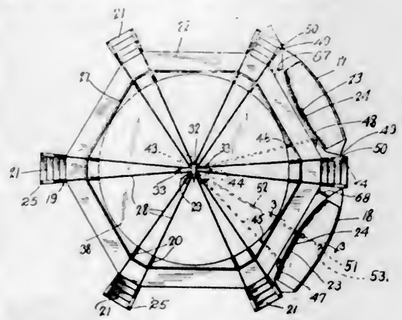
A washing machine comprising a tub, a lid provided with vertical slots in its side walls hingedly secured to said tub, bearings slidably mounted in said slots, means carried by the lid for retaining the bearings in said slots when the lid is elevated; a rubbing head mounted in said bearings, a power driven mechanism for oscillating said rubbing head, means for connecting and disconnecting the power driven mechanism from said rubbing head, and a shock absorber mounted on the tub for taking up the jar of the scrubbing head at the end of each oscillation thereof.

1,476,179. CENTRIFUGAL EXTRACTOR. SYDNEY PLESTWICH, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed Oct. 16, 1917. Serial No. 196,826. 11 Claims. (Cl. 210—76.)



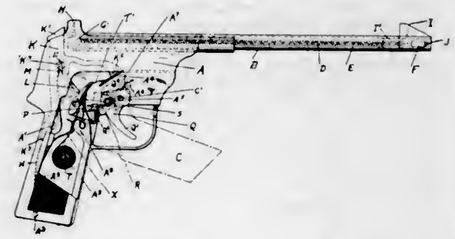
1. An extractor, comprising a basket rotatable on a vertical axis, said basket comprising a bottom fixed against vertical movement and a series of outwardly extending partitions having downwardly inclined outer edges, and a vertically movable outer wall on said basket arranged when lifted to expose the material therein, said outer wall flaring downwardly.

1,476,180. MERRY-GO-ROUND. GEORGE M. REAGEN, Alton, Ill., assignor of one-half to Jerome I. Wohl, Chicago, Ill. Substitute for application Serial No. 363,369, filed Mar. 5, 1920. This application filed Aug. 26, 1922. Serial No. 584,573. 1 Claim. (Cl. 46—27.)



A merry-go-round comprising a base, a mast or standard rising from the base, a sleeve surrounding the mast or standard at an intermediate point in the height thereof, braces extending from the base to the sleeve, a rotary frame having a hub mounted upon said sleeve and provided with radial arms, spaced flights of steps carried by said arms, movable cars supported in the intervals between the flights of steps, a continuous annular platform supported by and connecting the radial arms near their outer ends and accessible by means of said flights of steps, a frame fixed on the said braces and disposed below the radial arms, a gear connected to the underside of the radial arms, means supported by said fixed frame to transmit rotary motion to said gear, driving connections arranged above the radial arms to transmit motion to the cars, said connections extending under said continuous annular platform, a stage fixed to the mast or standard and arranged within the continuous annular platform and above said driving connections, a guard connected to and rising from the inner edge of the continuous annular platform, pendent fenders carried by the rotary frame and extending between the inner portions of the flights of steps, and means interposed between the outer portion of the rotary frame and the upper portion of the mast or standard to suspend said outer portion of the rotary frame from the mast or standard.

1,476,181. EDUCATIVE DUMMY FIREARM. ROBERT E. REARDON, Wrightsville, Pa. Filed Apr. 5, 1922. Serial No. 549,944. 12 Claims. (Cl. 124—155.)



3. In an educative toy article of manufacture resembling a firearm, firearm sighting means for aiming at a target, a target marking member movable only in a straight line paralleling at fixed distance the line of aim, continuously operable, trigger operated, spring hammer means for repeatedly advancing said target marking member, spring means for automatically retracting said target marking member, and means for feeding detonating material and causing an explosive effect coincidently with the advance of said target marking member.

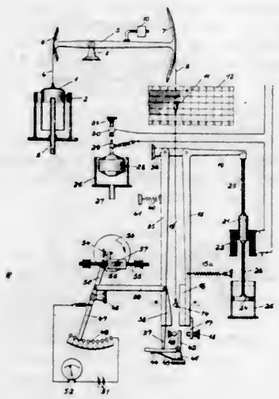
1,476,182. FOOD PRODUCT AND PROCESS OF MAKING THE SAME. GWYNNE RICHARDS, New York, N. Y. Filed Sept. 13, 1921. Serial No. 500,418. 4 Claims. (Cl. 99—11.)

4. The process of treating soya beans to form a dry food product therefrom, which comprises the following steps: first, soaking said beans in water; second, grinding the soaked mass at a temperature low enough to avoid the generation of an oil flavor therein; third, cooking the mass; fourth, expressing the juices from the ground and cooked mass; and fifth, drying the solid residue at a similar temperature.

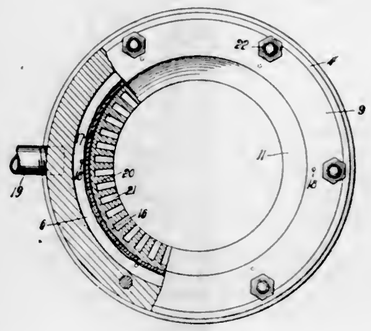
1,476,183. DEVICE FOR TRANSMITTING POSITIONS OF INDICATING ORGANS. ERICH ROUČKA, Hlansko, Czechoslovakia. Filed Aug. 16 1921. Serial No. 492,862. 15 Claims. (Cl. 235—61.)

1. An indicating, measuring, or recording apparatus comprising two spaced relatively movable mechanisms at least one of which is periodically movable by auxiliary power, and a member freely movable between said mechanisms in accordance with variations in a value to be indicated in a plane at right angles to the direction of the relative movement of said mechanisms, said member being adapted to cooperate with said two mechanisms upon each movement in one direction of said periodically movable mechanism to effect a movement of one of said mechanisms into a position corresponding to the value being indicated.

4. An indicating, measuring, or recording apparatus comprising two spaced relatively movable mechanisms at least one of which is periodically movable by auxiliary power, and a member freely movable between said mechanisms in accordance with variations in a value to be indicated in a plane at right angles to the direction of the relative movement of said mechanisms, said member being adapted to cooperate with said two mechanisms to directly transmit any variation in the value being transmitted to one of said mechanisms upon each movement in one direction of said periodically movable mechanism, the space between said mechanisms in which said movable member operates being of varying width in the direction of movement of said movable member whereby the position of said last-mentioned mechanism varies in accordance with the position of said movable member and serves as a measure of the value being transmitted.

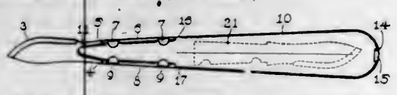


1,476,184. GAS BURNER. ERNEST C. SCHRADER, Toledo, Ohio, assignor to The Libbey Glass Manufacturing Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 28, 1922. Serial No. 557,183. 7 Claims. (Cl. 158—99.)



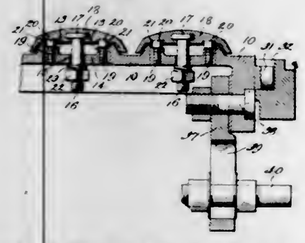
1. A ring burner of the class described, having an annular main gas chamber for communication with a source of gas supply, an annular high pressure chamber in communication with the main chamber and having provision for the discharge of gas therefrom toward the burner axis, and gas discharge passages at opposite sides of the line of discharge of gas from the high pressure chamber toward the same and in low pressure communication with the main gas chamber.

1,476,185. SURGEON'S KNIFE. NILS SEAHOLM, Mount Vernon, N. Y. Filed Dec. 30, 1922. Serial No. 609,988. 5 Claims. (Cl. 30—9.)



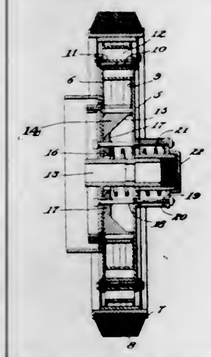
1. An instrument comprising a pair of similar members adapted to clamp a blade shank and provided with a pair of adjacent blade reinforcing centrally disposed opposite tongues projecting along the axis of said members beyond the clamping portions thereof.

1,476,186. SCREENING-BURNING GRATE AND SYSTEM. EDWARD FRANCIS SENGLAUP, Niagara Falls, N. Y. Filed Feb. 25, 1922. Serial No. 539,212. 2 Claims. (Cl. 126—163.)



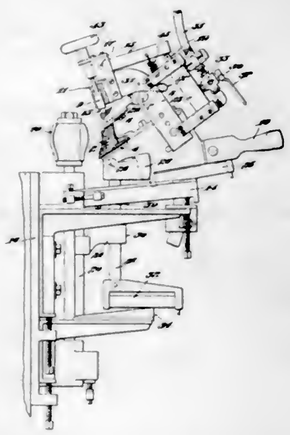
1. A grate of the character described comprising a body including a plurality of sections, each having a plurality of openings arranged therein, headed bolts rising from adjacent the edge of each opening, a cap shaped member provided with recesses to receive the heads in the bolts and being supported to overlie the openings in spaced relation with the edge thereof and means depending from the center of the cap shaped member and being secured to the body to hold the cap shaped member engaged with the bolts for the purpose specified.

1,476,187. RESILIENT WHEEL. BENJAMIN F. SEYMOUR, Washington, D. C. Filed Feb. 28, 1920. Serial No. 361,993. 4 Claims. (Cl. 152—45.)



1. In a combined resilient transmission and bearing for vehicle wheels, the combination of a hub portion, a wheel rim mounted to have limited radial movement therein, a plurality of independent cone members mounted to have axial movement on the hub portion, complemental cone elements on the rim and hub together cooperable with said hub cone members and a common tensioning means holding the independent hub members in engagement with said complemental rim and hub cone elements, substantially as set forth.

1,476,188. MACHINE FOR TURNING WOOD HEELS. WESLEY J. SHAW, Haverhill, Mass., assignor to New England Wood Heel Co., Haverhill, Mass., a Corporation of Massachusetts. Filed May 1, 1923. Serial No. 635,993. 8 Claims. (Cl. 12—87.)



1. A machine for turning wood heels having, in combination, a cutter, a track, a clamp adapted to clamp a heel blank and to swing about the cutter along the track to present different portions of the heel blank to the cutter, and means operable by fluid pressure to actuate the clamp.

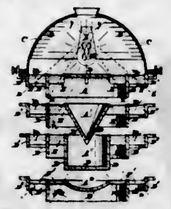
8. A machine for turning wood heels having, in combination, a cutter, a track, a clamp adapted to clamp a heel blank, and two handles adapted to be grasped by the operator to swing the clamp about the cutter along the track to present different portions of the heel blank to the cutter, the clamp having a stationary jaw, a movable jaw, a spring tending to maintain the movable jaw out of engagement with the heel blank, a plunger for actuating the movable jaw in opposition to the spring into engagement with the heel blank, a lever for actuating the plunger, a piston for actuating the lever, a cylinder for the piston, means connecting the cylinder to a source of fluid pressure, and a three-way valve adapted to connect the cylinder either to the connecting means or to the atmosphere.

1,476,189. HAIR CURLER. HERBERT LESLIE SKINNER, Brooklyn, N. Y. Filed Apr. 11, 1922. Serial No. 551,445. 6 Claims. (Cl. 132—33.)



2. A hair curler comprising a frame, a tube pivoted at one end thereof to one end of the frame, a transverse member mounted on the free end of the frame and having an opening therein, a heating member for extending through the opening and into the tube, and a bayonet lock for keeping the heating member in the tube.

1,476,190. LAMP SHADE. ERNEST H. STRAUSS, Chicago, Ill. Filed Mar. 18, 1920. Serial No. 366,766. 2 Claims. (Cl. 240—93.)



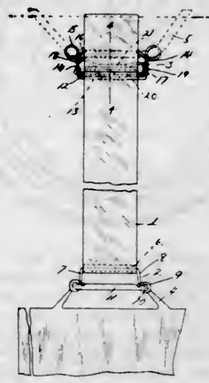
1. In a lamp-shade, a reflector adapted to be mounted above and about a source of light so as to reflect its rays downward in approximately parallel lines, and a diffuser comprising a central, and a series of successively larger but narrower vertical-walled surrounding members of translucent but not transparent material, concentrically mounted, and spaced from one another in approximately the same horizontal plane, to intercept and diffuse all rays emanating downward directly from said source, and afford relatively large and unimpeded passage for said reflected rays, and slender means spanning said spaces and firmly attached to said members to hold them in position, said spaces being otherwise left open for such passage and for ventilation, substantially as described and shown.

1,476,191. [WITHDRAWN.]

1,476,192. METHOD OF CASTING LIGHT METAL ALLOYS. WILLIAM R. VEAZEY, Cleveland, Ohio, and EDWARD C. BURDICK, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Nov. 26, 1921, Serial No. 517,949. Renewed Apr. 5, 1923. 12 Claims. (Cl. 22—200.)

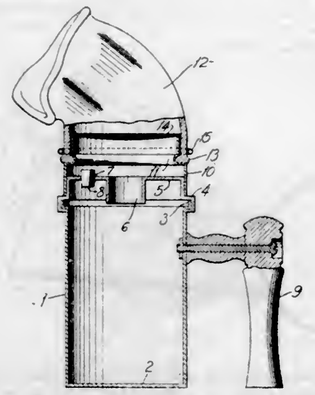
5. In a method of casting magnesium and alloys thereof in which magnesium largely predominates, the steps which consist in melting a quantity of the metal, floating same in a bath of flux, and then transferring metal from such floating mass to the mold as required.

1,476,193. FASTENER. BIRDORA H. WHITE, Detroit, Mich. Filed Aug. 27, 1920. Serial No. 406,328. 2 Claims. (Cl. 241—1).



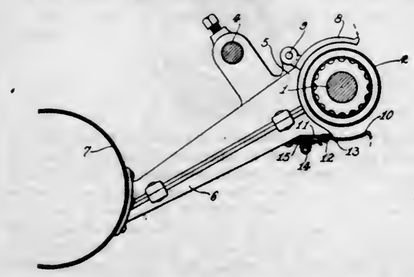
1. A fastener comprising a member adapted to be connected to an article of wearing apparel and having portions at the ends thereof bent outwardly thence upwardly and inwardly to provide loops, the inwardly extending portions of said loops extending transversely of the sides of said member and being curved partly thereabout in spaced relation thereto.

1,476,194. INHALER. HENRY B. DISMOND, Danville, Ill. Filed Dec. 6, 1922. Serial No. 605,254. 6 Claims. (Cl. 128—192.)



1. In an inhaler, a container having one open rimmed end, a perforate cap removably seated upon the rimmed end of said container, an inwardly extending stem for said cap whereby a concentration chamber is formed in said member, a medicine chamber removably secured to said container, a gauze pad carried at one end of said medicine chamber, a removable nose-piece carried by said medicine chamber, and a handle for said container.

1,476,195. SHOE-FINISHING MACHINE. STEPHEN A. DOBYNE, St. Louis, Mo., assignor to Champion Shoe Machinery Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 1, 1921. Serial No. 488,997. 9 Claims. (Cl. 51—273.)



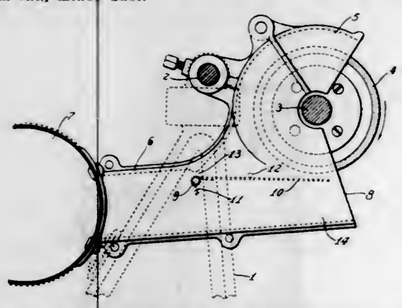
1. In a shoe finishing machine, the combination with an elongated rotary finishing tool and its dust hood, of a supplemental dust catching trough extending along and projecting beyond said tool, said trough being mounted for movement to yield at either end on contact by the work therewith, and means for returning said trough to nomral position.

2. In a shoe finishing machine, the combination with a rotary finishing tool and its dust hood, of a supplemental dust catching trough extending along and projecting beyond said tool, said trough being mounted to recede edgewise.

1,476,196. SHOE-FINISHING MACHINE. STEPHEN A. DOBYNE, St. Louis, Mo., assignor to Champion Shoe Machinery Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 20, 1922. Serial No. 530,552. 8 Claims. (Cl. 51—273.)

1. In a shoe finishing machine, the combination with a rotary finishing tool, of a dust hood partially enveloping said tool and having a part providing an ingress opening displaced radially with respect to said tool, a partition

dividing said hood into a major duct leading from said ingress opening and a minor duct leading from the periphery of said tool, and an exhaust connection to said ducts and providing a relatively large egress opening from said major duct and a relatively small egress opening from said minor duct.



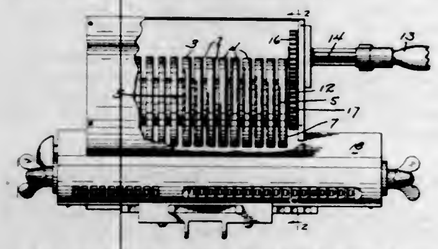
2. In a shoe finishing machine, the combination with a rotary finishing tool, of a dust hood partially enveloping said tool and having a part providing an ingress opening wider than and displaced radially with respect to said tool, a partition dividing said hood into a major duct leading from said ingress opening and a minor duct leading from the periphery of said tool, and an exhaust connection to said ducts and providing a relatively large egress opening from said major duct and a relatively small egress opening from said minor duct.

1,476,197. CALCULATING MACHINE. CARL M. FRIDEN, Piedmont, Calif. Filed Jan. 17, 1921. Serial No. 438,002. 28 Claims. (Cl. 235—73.)



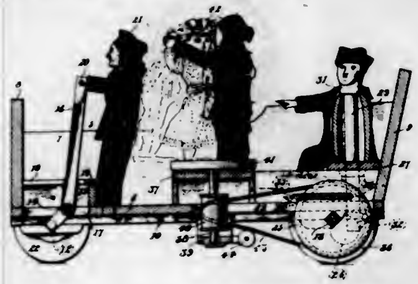
2. In a calculating machine, a counting mechanism including a toothed wheel, a rotatable element, a slide carried by said rotatable element provided on its end with a plurality of teeth adapted to cooperate with said toothed wheel on rotation of said element and means operative during the rotation of said element for moving said slide with respect to said element to cause a predetermined number of said teeth to engage with said toothed wheel.

1,476,198. CALCULATING MACHINE. CARL M. FRIDEN, Piedmont, Calif. Filed Nov. 12, 1921. Serial No. 514,435. 8 Claims. (Cl. 235—73.)



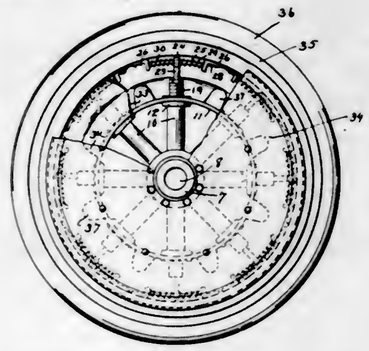
1. In a calculating machine, a rotatable drum, a counting mechanism and a plurality of selectively controlled counting mechanism actuating units arranged on said drum to successively engage the counting mechanism on the rotation of the drum.

1,476,199. FIGURE WHEELED TOY. JOZEPH A. GAZDA, Chicopee, Mass. Filed Dec. 21, 1922. Serial No. 608,235. 1 Claim. (Cl. 46—45.)



In a device of the character described, a cart having axles journaled thereto, wheels secured to said axles, objects positioned near the forward end of said cart, a crank portion carried by the front axle, a connection between said crank portion and objects for imparting motion to the said objects, a shaft positioned centrally of said cart, a pulley wheel secured to said shaft, objects carried by said shaft, a pulley wheel carried by the rear axle, a connection between said pulley wheels for imparting motion from the rear axle to the second mentioned objects, perpendicular shafts positioned in the rearward portion of said cart, doll heads carried by the upper end of said shafts, laterally extending arms carried by the lower ends of said shafts, resilient connections between said shafts and said cart for retaining the said heads in their normal position, and cams carried by the rear axle for engaging said arms to cause a partial rotation of said heads.

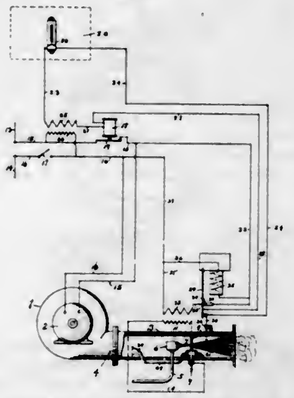
1,476,200. RESILIENT WHEEL. ARTHUR A. GIETZELT, Fresno, Calif. Filed Jan. 17, 1922. Serial No. 529,943. 2 Claims. (Cl. 152—48.)



2. A vehicle wheel comprising a hub; a plurality of annular recesses formed in the outer periphery of said hub; a felloe; an annular rim mounted between said hub and felloe concentric therewith; a plurality of radially extending apertures in said rim, there being one of said apertures for each of said recesses; a holding member having an opening therethrough detachably mounted in each of said apertures; a recess in the inner face of each of said holding members surrounding the opening therethrough; an open ended cylinder rigidly mounted at one end in each of the recesses in said hub having its other end detachably mounted in the recess in said holding member; an adjusting member having a longitudinal opening therethrough adjustably mounted in the opening in said holding member and having its inner end enlarged

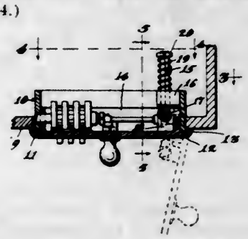
to snugly fit the interior of the cylinders; a piston slidably mounted in each of said cylinders to slide longitudinally thereof; a stem rigidly connected at one end to said piston and having its other end extending radially through the opening in said adjusting member in slidable engagement therewith and terminating in an eye; a rod rigidly connected at its ends to the inner face of said felloe, upon which said eye is adapted to be slidably mounted; a spring coiled around said rod at each side of said eye and extending from said eye to each end of said rod; coil springs mounted within said cylinders at each side of said piston; a pair of imperforate discs mounted one at each side of said hub and secured thereto, the free ends of said discs bearing against the side walls of said felloe in slidable engagement therewith; a pair of flexible imperforate discs connected at their inner edges to the sides of said rim and at their outer edges to the sides of said felloe.

1,476,201. BURNER IGNITER. PAUL C. HAAS, Ann Arbor, Mich., assignor of one-half to Frank M. Kellogg, Ann Arbor, Mich. Filed June 16, 1922. Serial No. 568,704. 7 Claims. (Cl. 158—28.)



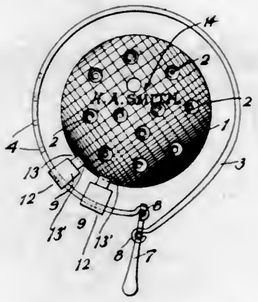
1. In a liquid-fuel burner, the combination of a blower and an electric motor therefor, a feed circuit to the motor a relay to close said circuit, a transformer having one winding connected to the feed circuit and a second winding connected to the relay circuit, a second transformer adapted to produce ignition sparks to ignite the fuel, a thermostat to control the circuit to the second transformer, and an electric heater for said thermostat connected to the feed circuit to cause the thermostat to cut out said igniting transformer.

1,476,202. HINGED CLOSURE. ELERT A. HILL, Los Angeles, Calif., assignor to Stop-Burglar Lock Company, Los Angeles, Calif., a Corporation of California. Filed Feb. 14, 1922. Serial No. 536,582. 4 Claims. (Cl. 109—4.)



1. The combination of a door, a casing surrounding an aperture to be closed by said door, a stem slidably mounted on said casing, a pivot connecting the inner portion of said door to said stem, and a spring acting on said stem yieldably opposing movement thereof in one direction.

1,476,203. DEVICE FOR MARKING GOLF BALLS. ARCHIBALD B. HORNE, Springfield, Mass. Filed Dec. 19, 1922. Serial No. 607,917. 5 Claims. (Cl. 101—4.)

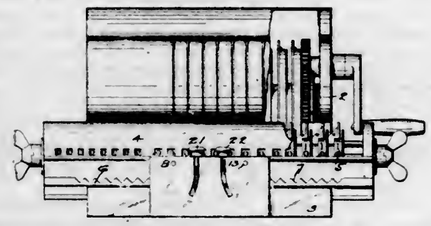


1. In combination, a device for forming impressions on the outer surface of a golf ball, a member flexible throughout its length and formed with a series or plurality of openings therein, said openings being for the purpose of removably attaching individual impression forming devices for building up the full name of the owner when impressed on the ball and designed to be attached to the said flexible member at different portions of its length commensurate with the length of the name to be impressed, means for constricting the member uniformly throughout substantially its length to force the devices into the outer surface of the ball, as described, whereby the full name of the owner of the ball will appear thereon.

1,476,204. METHOD OF SHRINKING ANIMAL CASINGS. EDWIN G. JAMES, Chicago, Ill. Filed Mar. 26, 1923. Serial No. 627,918. 13 Claims. (Cl. 17—45.)

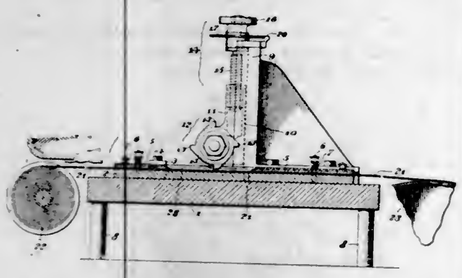
1. The method of producing an animal casing of desired size consisting of taking a larger casing, heat-treating it under conditions to reduce its diameter.

1,476,205. CALCULATING MACHINE. CLARENCE L. JOHNSTON, Oakland, Calif., assignor to Marchant Calculating Machine Company, Oakland, Calif., a Corporation of California. Filed June 23, 1920. Serial No. 391,136. 6 Claims. (Cl. 235—63.)



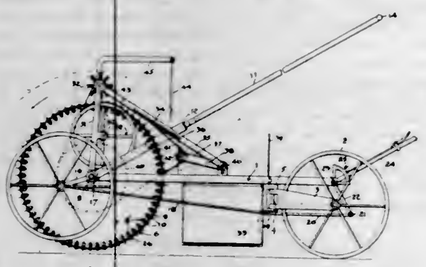
1. In a calculating machine, a frame, a carriage movable on said frame, a toothed bar on said carriage and a slide pivotally mounted on said frame adapted to be moved into contact with said bar and to be moved about its pivot to move said carriage.

1,476,206. APPARATUS FOR RULING PHOTOGRAPHIC FILMS. ISIDOR KITSEE, Philadelphia, Pa. Filed July 26, 1921. Serial No. 487,633. 11 Claims. (Cl. 33—32.)



1. In a device of the class described, a race plate, a pressure plate provided with an aperture and adjustably secured to said race plate, and a stationary member having cutting edges projecting through the aperture of said pressure plate.

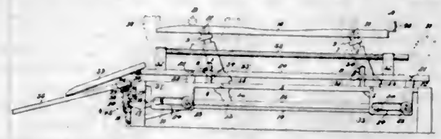
1,476,207. FRUIT-GATHERING MACHINE. PETER H. LINT, Los Gatos, Calif. Filed Oct. 19, 1920. Serial No. 418,013. 3 Claims. (Cl. 56—328.)



2. A fruit harvester embodying in its construction a wheeled frame adapted to be moved over the ground, a drum rotatably mounted upon the frame, a plurality of teeth projecting from the drum and arranged to engage and pick up fruit lying upon the ground over which the drum is moved, a receptacle carried by the frame, a plurality of members movable inwardly and outwardly relative to the teeth and acting to disengage the teeth from the fruit when moved outwardly, means for automatically effecting movement of said members in an outward direction to disengage the fruit from the teeth, a chute onto which fruit rolls after being disengaged from the teeth, which chute is pivoted adjacent one end and lies close to the teeth adjacent the upper side of the drum, said receptacle receiving the fruit from said chute and a flexible apron depending from a point on the frame above said chute, with its lower end in close proximity to the upper surface of the chute.

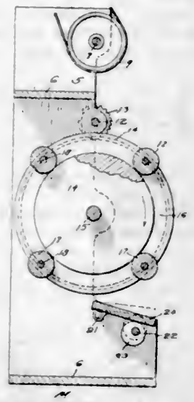
1,476,208. AUTOMOBILE JACK. ALBERT MENSIK, Gordon, Tex. Filed Dec. 19, 1922. Serial No. 607,808. 14 Claims. (Cl. 254—88.)

14. In an automobile jack, a frame, standards pivotally mounted on the frame, axle supporting bars carried by the upper ends of the standards, normally elevated vertically shiftable tracks mounted on the frame, longitudinally shiftable rods connected to the standards and tracks, a pair of shafts journaled transversely of the frame with which the rods are connected, the axle supporting bars being elevated by an automobile during mounting thereof on the jack, manually operable means for lowering the tracks, means associated with the shafts for holding the shifting rods immovable with the axle supporting bars elevated



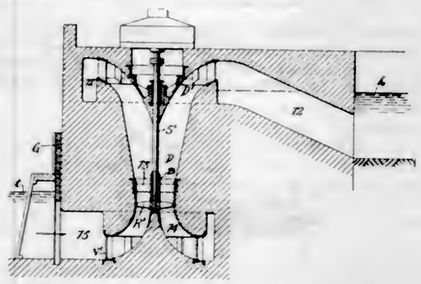
and the tracks lowered, and inclined trackways and skids connected respectively to the forward ends of the frame and tracks.

1,476,209. PLOWSHARE SHARPENER. OLE O. MOEN, FINGER T. GRONVOLD, and ALFRED M. CALL, Rugby, N. Dak. Filed July 6, 1922. Serial No. 573,208. 2 Claims. (Cl. 78—34.)



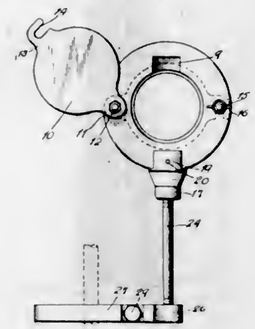
1. A machine of the character described comprising a pair of spaced side plates, an anvil plate supported therebetween, means for adjusting the angle of said anvil plate, a pair of discs between the side plates and above the anvil, a plurality of rollers mounted between said discs, a power shaft mounted in said side plates and a train of reducing gearing between the power shaft and the discs, said rollers traveling over said anvil plate with constantly decreasing clearance.

1,476,210. HYDRAULIC PUMP. LEWIS FERRY MOODY, Philadelphia, Pa. Filed Sept. 8, 1920. Serial No. 408,928. 21 Claims. (Cl. 103—89.)



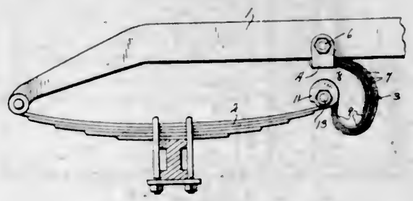
1. In a hydraulic pump the combination with a vertical shaft pump impeller, of a pit surrounding said shaft above said impeller and a spreading diffuser passage adapted to gradually decelerate the outflow surrounding said pit and receiving the discharge from said impeller.

1,476,211. WATCH-HOLDING DEVICE. HERBERT MUIR, Louisville, Ky. Filed Apr. 6, 1922. Serial No. 550,161. 1 Claim. (Cl. 224—4.)



A device for holding watches or the like, comprising an annular housing formed of rigid insulating material forming a chamber for the reception of the watch, the rear side of the chamber being entirely open while the housing is provided at the forward side of the chamber with an inwardly projecting flange, a cover plate arranged upon the rear side of the housing and pivoted thereto, means for connecting the opposite end of the cover plate with the housing, a coupling having a socket receiving and holding a portion of the housing, a rod secured to the coupling, and a clamp carried by the rod.

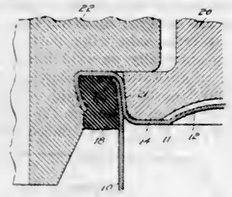
1,476,212. SHOCK ABSORBER. ROY L. NAUGLE, Blackstone, Va. Filed Oct. 4, 1922. Serial No. 592,323. 1 Claim. (Cl. 267—46.)



A combined spring shackle and shock absorber for operative connection to a vehicle spring, comprising a plurality of leaf springs having their upper ends merging toward and connected one to the other, a U-shaped plate or bracket connected to the joined ends of the leaf springs and having ears adapted for attachment to a spring or to an automobile frame, the outer leaf springs merging toward and welded one to the other at the other end of the shackle or shock absorber, said welded together ends terminating in a semi-cylindrical wall, the end walls being connected to the semi-cylindrical wall, thereby causing to be formed a socket for the reception of the end of a vehicle spring, the innermost leaf springs gradually increasing in their length, and being connected one to the other where they terminate, all of said leaf springs being spaced between their connected ends, thereby avoiding friction and eliminating lubrication.

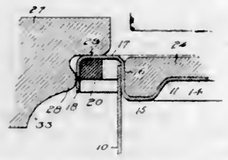
1,476,213. CAN CLOSURE. FRANK J. O'BRIEN, Baltimore, Md., assignor to Southern Can Company, Baltimore, Md., a Corporation of Maryland. Filed Oct. 22, 1921. Serial No. 509,474. 10 Claims. (Cl. 220—46.)

1. The method of assembling a container with a cap and a gasket, which consists in placing the cap upon the container, and applying radial pressure to the periphery of the cap to distort the gasket and bead the cap and



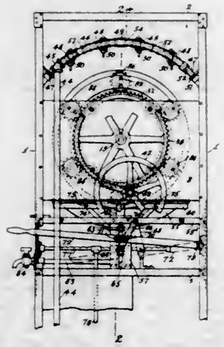
simultaneously flaring the container wall whereby a double shouldered seam is formed.

1,476,214. SANITARY CAN CLOSURE. FRANK J. O'BRIEN, Baltimore, Md. Filed May 17, 1922. Serial No. 561,641. 12 Claims. (Cl. 220—66.)



1. The method of sealing a cover on a can which consists in forming a downwardly directed channel in the cover, applying a gasket within said channel, applying said cover to a container, indenting a central portion of the outer wall of the channel of the cover to compress the gasket against the container and to flare the edge portion of the cover outwardly and downwardly, and in spinning such outwardly flared portion of the cover to form a bead.

1,476,215. COOKING APPARATUS. VINCENZO PACE, New York, N. Y. Filed June 16, 1920. Serial No. 389,356. 16 Claims. (Cl. 126—41.)

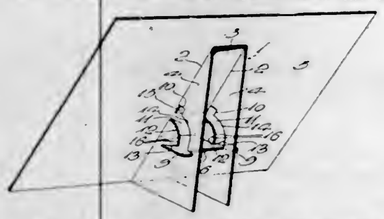


1. In a cooking apparatus the combination of a rotary carrier, a plurality of food holding devices carried thereby, heating means, means for rotating the carrier to carry the food holding devices past the heating means, and means for intermittently basting food on the holding devices.

1,476,216. EASEL. HARRY PALAIS, Boston, Mass. Filed Apr. 9, 1923. Serial No. 630,921. 2 Claims. (Cl. 40—150.)

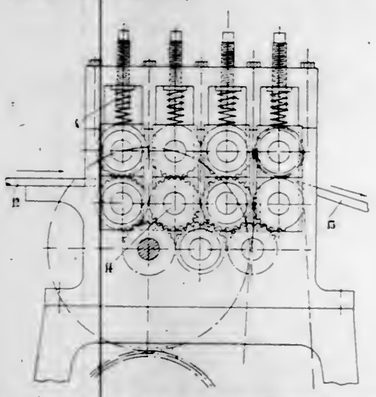
1. An easel formed of sheet material and comprising a vertical portion for contact with an article to be supported, and a wing portion adapted to be folded rearwardly from said vertical portion on a vertical hinge

line, a rearwardly and downwardly foldable locking tongue cut principally from said vertical portion and having a vertical edge located substantially on said hinge line, said tongue having an integral upwardly and outwardly extending tab cut from said wing portion with its inner edge located substantially on said hinge line, said wing portion having an outwardly and downwardly curved slot whose upper end is occupied by said tab, said slot having its inner edge on the same line as the lower edge of said tab and having its outer edge spaced from the folding



line of said tongue a distance equal to the vertical length of said tongue; said lower edge of said tab being engageable with said inner edge of the slot when the wing is folded rearwardly and the tongue folded downwardly, at which time, the upper end of said tongue contacts with the outer edge of said slot and the inner edge of said tab contacts with the outer face of the aforesaid wing portion.

1,476,217. HAIRED AND UNHAIRED HIDE STRETCHING, ENSUPPLING AND TRIMMING MACHINE. THÉOPHILE PERNIN and JOSEPH DIT GEORGES KLOTZ, Paris, France. Filed Jan. 12, 1922. Serial No. 528,831. 1 Claim. (Cl. 149—14.)



A hide stretching and suppling machine, comprising upper and lower series of ribbed and grooved rollers, and gearing for driving them in unison; the ribs of each series of rollers fitting in the grooves of the other series, and the ribs and grooves of the successive pairs of rollers progressively increasing in width from front to rear of the machine, thereby to provide progressively-increasing surface areas against which a hide is stretched as it passes from one pair of rollers to the next, substantially as described.

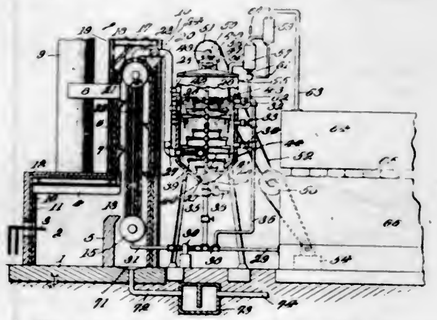
1,476,218. ROPE GRIP FOR WELL-DRILLING APPARATUS. ANTON PREMRO, Eldred, Pa. Filed May 16, 1923. Serial No. 639,373. 2 Claims. (Cl. 24—126.)

1. In a rope grip for well drilling apparatus, a casing having a tapering bore and an annular seat spaced from its upper end, a clamp including a screw collar and depending clamping legs longitudinally slidable in the casing bore, a clamping nut threaded on the collar and positioned in said seat in the uper end of the casing to hold the clamping legs in binding engagement with a



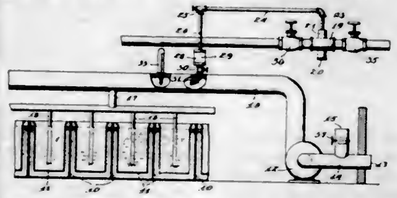
rope and immovable relative to the casing, and a tongue and groove connection between the casing and clamp to prevent relative rotary movement.

1,476,219. PROCESS OF DISTILLING WITH CATALYTIC CHEMICALS. GEORGE L. PRICHARD and HERBERT HENDERSON, Port Arthur, Tex., assignors to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Texas. Filed Nov. 21, 1921. Serial No. 516,596. 11 Claims. (Cl. 196—26.)



2. The process of converting higher boiling oils into lower boiling oils which comprises establishing and maintaining a bath of a mixture of anhydrous aluminum chlorid and of higher boiling oil at a temperature giving free ebullition, continuously removing a portion of the said bath, heating it and continuously returning it to the bath and continuously removing from the bath vapors of lower boiling oils formed.

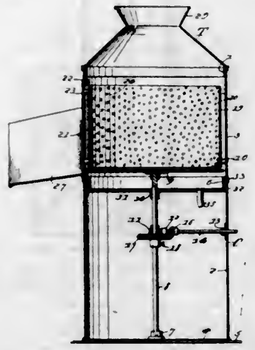
1,476,220. METHOD OF AND MEANS FOR AGITATING WATER IN ICE-MAKING APPARATUS. HERT REYNOLDS, Hamilton, Ohio. Filed Apr. 18, 1922. Serial No. 554,814. 5 Claims. (Cl. 62—172.)



1. The method of agitating water in an ice can of an artificial ice making apparatus, comprising the evapora-

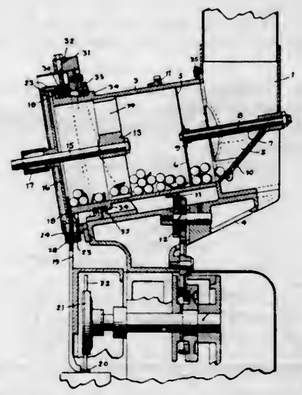
tion of water into air and admitting the air with its contained moisture near the bottom of the ice can and in position to rise to the surface of the water in the can.

1,476,221. POTATO PEELING AND WASHING MACHINE. SAMUEL ROYLANCE, New Bedford, Mass. Filed Sept. 7, 1921. Serial No. 498,957. 1 Claim. (Cl. 146—59.)



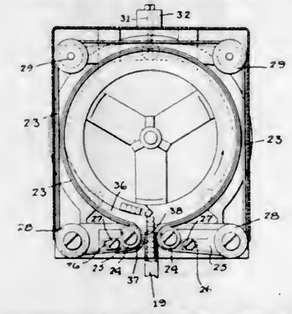
In a potato cleaning machine, a casing constructed of upper and lower separable tubular sections, the upper section having a flange extending into the upper end of the lower section, abrading means arranged in the upper section and including a revolving supporting and abrading disk, a vertical shaft arranged in the lower section and engaged with said disk to rotate the same, means carried in the last named section for rotating the shaft, and means arranged intermediate the sections for preventing particles removed from the potatoes from contacting with the operating means including a pan having an annular peripheral flange slidably fitting the interior of the upper end of the lower section, said flange having at its outer end a lateral extension overhanging the lower edge of the upper section, the interior of said flange slidably receiving the flange of the upper section.

1,476,222. PACKAGING MACHINE. LEROY SALFISBERG, Newark, N. J., assignor to Ivers-Lee Company, Newark, N. J., a Corporation of Delaware. Filed Oct. 19, 1920. Serial No. 418,048. 12 Claims. (Cl. 226—2.)



1. Article feeding apparatus comprising a rotatable article conveying drum, a peripheral article receiving and positioning annular recess at the discharge end of the drum, a recess closing member movable with the drum and arranged to present an article discharge opening fixed as to position with respect to the drum.

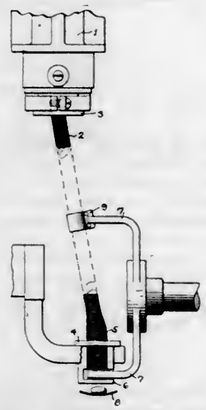
1,476,223. METHOD OF AND APPARATUS FOR FEEDING ARTICLES. LEROY L. SALFISBERG, Newark, N. J., assignor to Ivers-Lee Company, Newark, N. J., a Corporation of Delaware. Filed Feb. 24, 1922. Serial No. 539,045. 15 Claims. (Cl. 226—2.)



1. The method of feeding articles having at least two different dimensions which includes supporting upon a single article a plurality of articles with the same dimension extending in a different direction, displacing said single article, and simultaneously changing the position of the bottommost supported article to that vacated by the displaced single article.

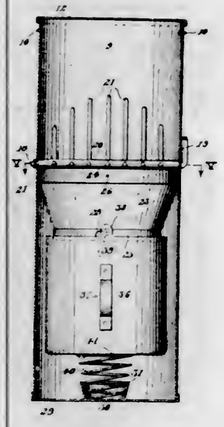
12. Article feeding apparatus for packaging machines and the like comprising a rotatable article conveying drum, a peripheral article receiving and positioning annular recess at the discharge end of the drum, a recess closing member movable with the drum and arranged to present an article discharge opening fixed as to position with respect to the drum, and a relatively stationary article supporting member riding loosely on the recess closing member.

1,476,224. APPARATUS FOR FEEDING ARTICLES. LEROY L. SALFISBERG, Newark, N. J., assignor to Ivers-Lee Company, Newark, N. J., a Corporation of Delaware. Filed Feb. 24, 1922. Serial No. 539,046. 9 Claims. (Cl. 226—2.)



9. An article guiding conduit consisting of a coiled spring having an opening increasing in magnitude along one axis toward the discharge end.

1,476,225. ASH SIFTER. APOLONIA SAMSEL, New Bedford, Mass. Filed Aug. 30, 1923. Serial No. 660,162. 1 Claim. (Cl. 83—60.)



In an ash sifter, an agitator associated therewith, a sifting screen, a hopper positioned between said screen and said ash sifter and secured to said ash sifter, a lower annular rim provided with bayonet slots formed on said hopper, an ash receptacle provided with upstruck ears, said ears provided with pins adapted to engage and to be supported by said bayonet slots, a resilient auxiliary supporting means associated with said ash receptacle and guide means associated with said resilient supporting means.

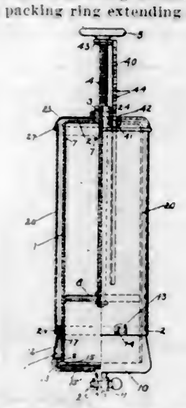
1,476,226. WATERPROOFING PROCESS FOR TEXTILE FABRICS, PAPER, AND SUCH MATERIALS. RAOUL ADRIEN GRIMOIN-SANSON, Oissel, France. Filed Nov. 26, 1921. Serial No. 517,926. 4 Claims. (Cl. 91—68.)



1. A process of producing waterproof material, comprising soaking powdered cork in an alkaline solution, drying the cork, applying a coating of rubber to a sheet of fibrous material, and then applying the dried cork powder to the coated surface of the sheet; substantially as described.

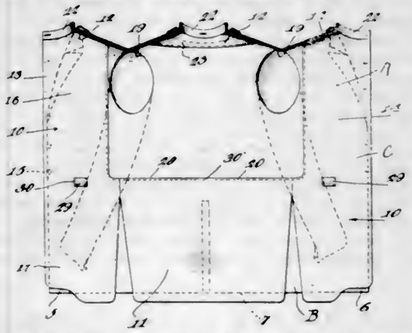
1,476,227. LUBRICANT PUMP. CHARLES H. SCOTT, South Pasadena, Calif. Filed Mar. 26, 1920. Serial No. 368,921. Renewed May 19, 1923. 2 Claims. (Cl. 221—79.)

1. A lubricant pump comprising a barrel closed at one end and having a piston working therein and provided with operating means extending through the closed end of the barrel, said barrel having one end open to enable the barrel to be used as a scoop for filling the same, a sheath mounted on and extending around the barrel, a head detachably mounted on the barrel to close the same, having a wall portion extending around the open end of the barrel, and a packing ring extending between said wall



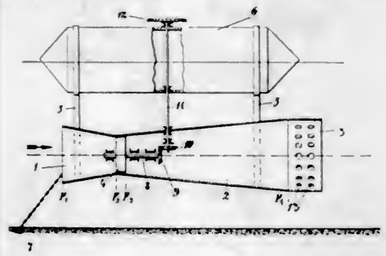
portion of the head and said barrel, said packing ring being adapted for compression against said wall portion and said barrel, by the pressure of the lubricant.

1,476,228. COMBINATION GARMENT. WILLIAM M. SPILMAN, McLain, Miss., assignor of one-half to Robert H. Coleman, McLain, Miss. Filed Nov. 1, 1920. Serial No. 421,092. 4 Claims. (Cl. 2—61.)



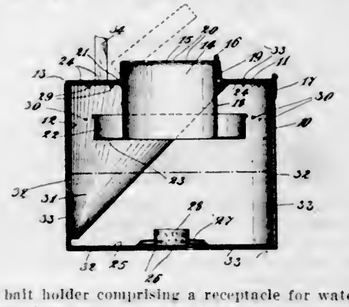
1. A garment comprising a coat and a shirt section, the shirt section including a front portion, a neck portion and a rear skirt portion, and means connecting the shirt portion to the coat section, said skirt portion extending from a point below the coat section to a point above the waist line thereof and extending forwardly from the rear portion of the coat section to the front shirt portion.

1,476,229. WATER TURBINE. EDUARD SUESS, Vienna, Austria. Filed May 18, 1922. Serial No. 561,959. 2 Claims. (Cl. 170—130.)



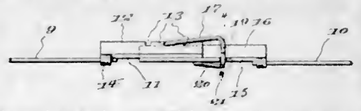
1. A water turbine comprising an under-water casing composed of a conical inlet and of a conical outlet, said outlet being of larger cross section than said inlet, the outlet and inlet being united at the narrow ends and a rotor wheel at the narrowest part of the outlet.

1,476,230. BAIT HOLDER FOR FISHERMEN. GEORGE THOMPSON, New York, N. Y. Filed Oct. 14, 1922. Serial No. 594,425. 7 Claims. (Cl. 43—55.)



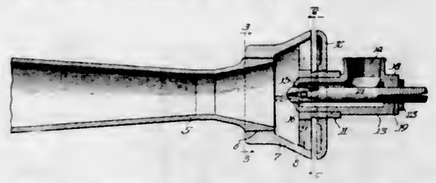
1. A bait holder comprising a receptacle for water provided interiorly with a centrally suspended gutter and deflector plates on opposite sides thereof.

1,476,231. FASTENING DEVICE. JOHN H. VENHOFF, Louisville, Ky. Filed Nov. 20, 1922. Serial No. 602,077. 1 Claim. (Cl. 24—206.)



A fastening device comprising a pair of plates slidably connected relative to each other, and a bail carried by one of the plates, said plate having edge notches, and the other plate having holding means for the bail, said bail consisting of side members and a cross-member connecting the same at one end, the side members being resilient and having rearwardly presented end portions which pass through the aforesaid edge notches and have inward resilient bends engaging the back of the notched plate, and said end portions having lateral offsets forming shoulders which engage the face of the notched plate.

1,476,232. GAS MIXER. JOHN ZANDER, Chicago, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a Corporation of Illinois. Filed Oct. 17, 1921. Serial No. 508,272. 2 Claims. (Cl. 158—118.)



1. In a gas mixer, the combination of a mixing head provided with air inlet ports, means for regulating the flow of air through said ports, means for supplying gas to said head, said means comprising a nozzle body attached to the head and provided with a delivery nozzle, and a gas regulating screw threaded in said body and projecting through the nozzle, the inner end of said screw being provided with longitudinally extending tapered grooves of maximum depth at the inner end of the screw through which gas is delivered from the nozzle, said screw being longitudinally adjustable with respect to said body to vary the effective areas of said grooves.

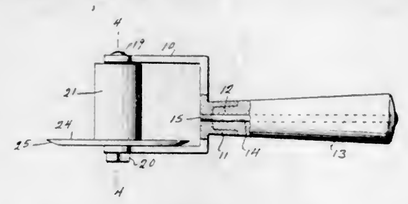
1,476,233. BIOLOGICAL PRODUCT. CARL A. ZELL and WALTER F. STRAUB, Chicago, Ill., assignors to Zell-Straub Laboratories, Incorporated, a Corporation of Illinois. Filed Aug. 23, 1920. Serial No. 405,412. 10 Claims. (Cl. 167—7.)

1. A biological product comprising a biologic and a preservative therefor comprising a bactericidal dye of the acridine series.

4. A biological product comprising a biologic and a preservative therefor comprising the dye proflavine.

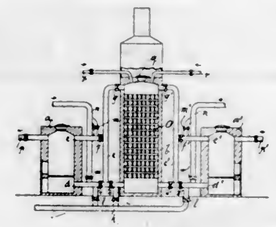
10. An antigenic biological product comprising a non-toxic, non-irritating, water soluble, substantially non-protein coagulable, bactericidal dye substance of a character acting as a preservative in assisting in maintaining the antigenic value and fortifying the potency of the product.

1,476,234. PAPER TRIMMER. ELVY W. BEELER, Durango, Colo. Filed Sept. 19, 1921. Serial No. 501,619. 1 Claim. (Cl. 164—84.)



A tool of the character described comprising a U-shaped supporting frame formed at its bight portion to one side of the center thereof with a socket, a handle detachably engaged within said socket, a pivot bolt detachably engaged with and extending transversely across the open end of said frame, a heavy metal roller journaled upon said pivot bolt, a relatively large cutting disk secured to that end of said roller most nearly in alignment with the axis of said handle.

1,476,235. METHOD OF GENERATING MIXED GAS IN TWIN GENERATORS. WERNER ALFRED PAUL BERG, Kobe, Japan. Filed Apr. 9, 1923. Serial No. 630,962. 1 Claim. (Cl. 48—202.)

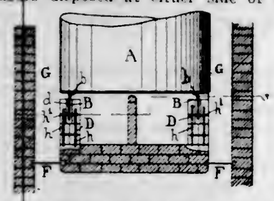


A method of producing mixed gas which consists in generating gas in one generator, passing said gas downwardly through a superheater to the lower incandescent zone of a second generator, and thence through the upper distilling zone of the said second generator, air being admitted directly to the said incandescent zone during the upward passage of said gas.

1,476,236. SETTING OF STEAM BOILERS. GEORGE HARLAND BOWDEN, Westminster, London, England. Filed June 26, 1922. Serial No. 570,786. 1 Claim. (Cl. 110—97.)

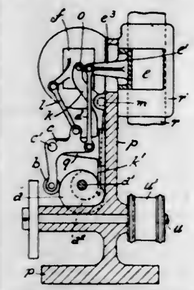
In an expansion joint for a steam boiler the combination with a plate affixed to the boiler of supporting

brickwork a groove formed therein, longitudinal reinforcing members disposed at either side of the groove,



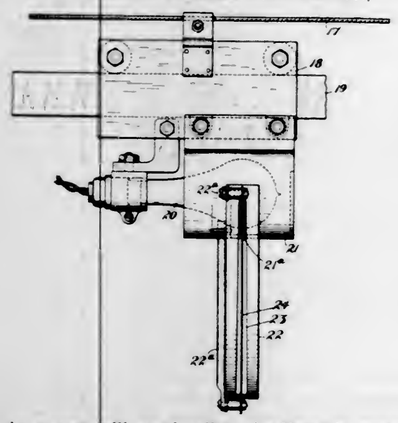
transverse reinforcing members disposed behind the groove and transverse reinforcing members passing through the groove and through apertures in the plate.

1,476,237. MEANS FOR THE PROJECTION OF CINEMATOGRAPH FILMS. GEORGE B. BOWELL, High Barnet, England, assignor of one-half to Gilbert Richard Redgrave, London, England. Filed Aug. 27, 1921. Serial No. 496,061. 9 Claims. (Cl. 88—16.8.)



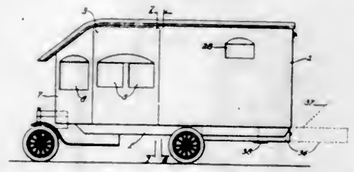
1. Cinematograph projector mechanism of the continuously moving film kind, comprising a framework, means for continuously moving a film mounted in said framework, two systems of reflecting parts mounted in said framework, axes perpendicular to the film in the gate, means for oscillating said systems about said axes and a shutter mounted in said framework and adapted to be actuated by the operating mechanism synchronously with said oscillating system and said film moving means in such a manner that the reverse motion of said system occurs wholly during a period of shutter obturation.

1,476,238. INDICATOR FOR EDGING SAWS. SUMNER M. BUMP, Susanville, Calif. Filed Feb. 20, 1922. Serial No. 537,788. 4 Claims. (Cl. 143—37.)



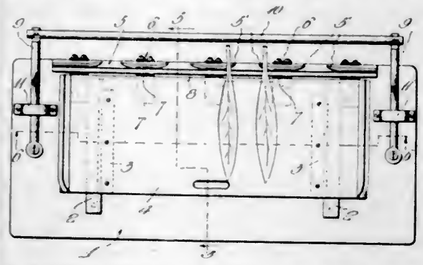
1. In a saw mill, a plurality of adjustably mounted edging saws, means for feeding a log thereto, means for shifting the saws relatively, a lamp positioned in line with each saw and connected with the shifting means for conjoint movement with the related saw, and means in association with each lamp for casting a line throughout the length of the log whereby to indicate the line of cut of the saw.

1,476,239. CAMPING VEHICLE. HENRY A. CRESS, Jr., Hillsboro, Ill. Filed Nov. 17, 1921. Serial No. 515,775. 5 Claims. (Cl. 296—23.)



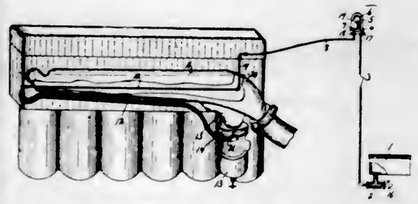
1. In an automobile for camping purposes, a closed body having a side thereof provided with a window and mounted to be let down to form a floor, and a floor section mounted on said side and movable over said window to complete the floor.

1,476,240. TOBACCO-STRIPPING TABLE. LOUIS C. EDWARDS, Ellington, Conn. Filed Mar. 6, 1922. Serial No. 541,445. 6 Claims. (Cl. 131—21.)



1. A tobacco stripping outfit comprising a table, supporting means carried by said table for mounting a tobacco lath for longitudinal sliding movement, means for imparting sliding movement to a lath held by the supporting means and bringing leaves carried by the lath into engagement with the supporting means to move the leaves out of engagement with the lath.

1,476,241. DECARBONIZING ATTACHMENT FOR INTERNAL-COMBUSTION ENGINES. ROBERT S. EGLESTON, Antwerp, N. Y. Filed July 2, 1921. Serial No. 482,248. 5 Claims. (Cl. 123—25.)

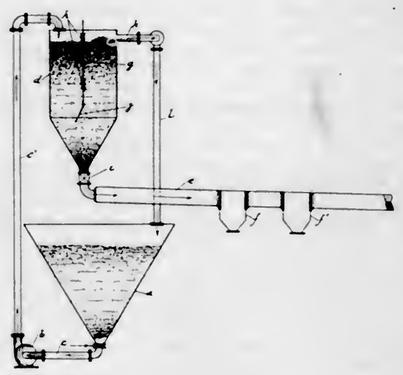


1. In combination with an internal combustion engine having an exhaust manifold and an intake-manifold, a heater pipe having a straight portion extending longitudinally through the major portion of the exhaust manifold, a wire coil extending lengthwise of and within the straight portion of the heater pipe, a carburetor, means for supplying water to one end of the heater pipe, and connections between the other end of the heater pipe and carburetor.

1,476,242. PROCESS OF SUGAR REFINING AND MANUFACTURING. ROY D. ELLIOTT, Crockett, Calif. Filed Jan. 7, 1920. Serial No. 349,977. 27 Claims. (Cl. 127—48.)

27. A process for the simultaneous purification of sugar solutions, the production of a material to be used in the manufacture of vegetable decolorizing carbon and the production of potassium alum, which consists in adding to the impure sugar solutions a quantity of alcohol and a quantity of gum carbon, removing by filtration the precipitated substances which are to be used for the manufacture of the said decolorizing carbon, then adding to the filtered alcoholic sugar solution a quantity of aluminum sulphate in slight excess over the quantity necessary to chemically combine with the potassium present to form potassium alum, removing the crystals of said potassium alum by filtration, then adding lime to the potassium free alcoholic sugar solution until said slight excess of aluminum sulphate has been precipitated, removing said precipitate by filtration, and thereafter removing the alcohol from the purified sugar solution by distillation.

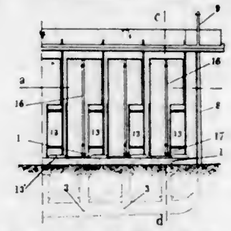
1,476,243. MINERAL-WASHING PLANT. ANTOINE FRANCE, Liege, Belgium. Filed Mar. 1, 1923. Serial No. 622,121. 2 Claims. (Cl. 83—82.)



1. In apparatus for thoroughly soaking fine particles of minerals preparatory to their washing by means of wet sorting apparatus, the combination of: a lower supply cistern, an upper constant level tank, vertically adjustable baffling means forming a partition within said tank, means for delivering the particles to be treated together with water from the supply cistern at the top of one of the compartments formed within said tank by the said partition, a connection between the base of said tank and the sorting apparatus, means on the said connection for adjusting the rate of discharge through the base of the tank in relation to the rate of delivery to the aforesaid compartment of said tank in such a manner as to obtain an upward stream through the other compartment, an overflow at the top, of the said other compartment, and means for returning material discharged through the said overflow to the aforesaid supply cistern, substantially as described.

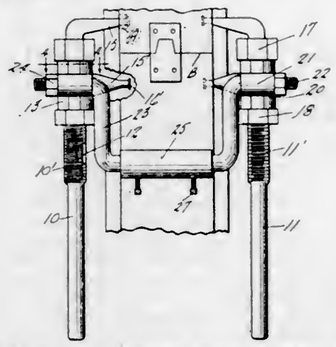
1,476,244. WATER-CLOSET. PIERRE GANDILLON, Tarbes, France. Filed Jan. 2, 1919. Serial No. 269,332. 2 Claims. (Cl. 4—11.)

1. In an apparatus of the character described, a range of compartment water closets, flushing apparatus therefor, and mechanism associated with the doors of the compartments for normally holding the doors open and



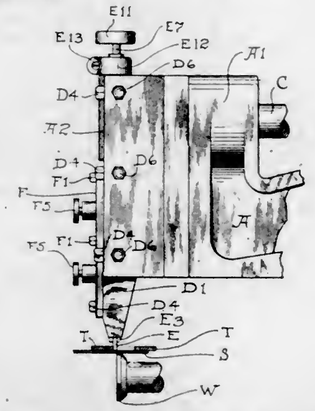
also associated with the flushing apparatus for automatically operating said flushing apparatus when the door opens.

1,476,245. RIM TOOL. JAMES P. GILES, Dallas, Tex. Filed Jan. 9, 1923. Serial No. 611,563. 4 Claims. (Cl. 157—1.)



1. In a rim tool, a pair of levers having rim engaging elements, a pair of collars slidable on said levers, rim engaging elements carried by the collars, means for adjusting the collars to space their rim engaging elements from the lever rim engaging elements, and means for connecting the collars and the levers together transversely.

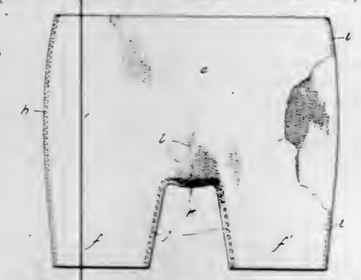
1,476,246. MACHINE FOR CUTTING SHEET-FORM MATERIAL. CHARLES B. GRAY, Philadelphia, Pa. Filed Mar. 9, 1920. Serial No. 364,535. 4 Claims. (Cl. 164—49.)



1. In a machine of the nature described, the combination of a cross-head, guide-ways for confining said

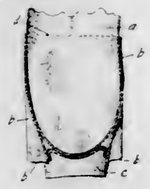
cross-head for reciprocation, means for reciprocating said cross-head, a tool holder supported on the cross-head, a screw shaft for adjusting the holder parallel to the path of reciprocation of the cross-head, an adjustable stop for limiting downward movement of the screw shaft, and a cutting tool supported by said holder, substantially as described.

1,476,247. TRUNK HOSE OF BATHING SUITS. MAX GREEN, Portland, Oreg. Filed June 14, 1922. Serial No. 568,294. 1 Claim. (Cl. 2—122.)



In a bathing suit, a trunk hose, comprising a unitary front piece and a unitary back piece, each piece made of knitted fabric with the ribs thereof extending longitudinally of the garment, each of said pieces having leg portions tapering towards the bottom, the inner margins of which leg portions are connected in spaced relation by a transverse integral crotch portion, and substantially elastic stitches uniting the front and back pieces along their outer side and inner margins, the stitches uniting the inner leg margins extending across said integral crotch portion, the unitary formation of the front and back pieces and the form outline of each piece relative to the ribs of the fabric providing a gripping elasticity in the leg portions to restain the up-crawling of such portions, and the transverse elasticity at the crotch portion while preventing longitudinal stretching at such portion at the same time provides a fullness to prevent binding on the wearer.

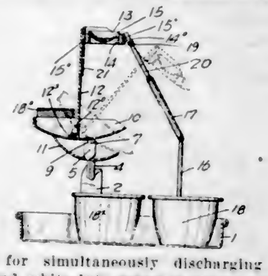
1,476,248. BATHING SUIT. MAX GREEN, Portland, Oreg. Filed June 14, 1922. Serial No. 569,934. 1 Claim. (Cl. 2—144.)



A bathing suit, comprising a trunk hose, a skirt overlying the hose and terminating at its lower edge a short distance below the crotch portion of the hose, and a strap secured at its respective ends to the skirt portion immediately adjacent the free edge of the latter, said strap extending between the leg portions of the trunk hose and substantially in contact with the crotch portion thereof, whereby to maintain a substantially constant relation between the lower edge of the skirt and the trunk hose and prevent such lower skirt edge from riding up over the trunk hose.

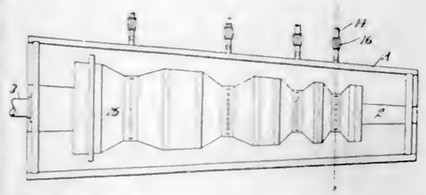
1,476,249. EGG SEPARATOR. IPHUS HARVEY HALL, Toronto, Ontario, Canada. Filed Mar. 3, 1923. Serial No. 622,613. 10 Claims. (Cl. 146—2.)

1. An egg separating device comprising a main support, a yolk receiving cup into which the yolk substantially fits and over the edge of which the white overflows, a white receiver in which the separated white passes,



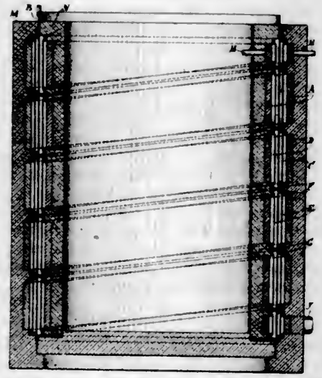
and means for simultaneously discharging the separated yolk and white into separate receptacles.

1,476,250. HYDRAULIC CLASSIFIER. ROYAL S. HANDY and EDWARD HEARING, Kellogg, Idaho. Filed Dec. 7, 1921. Serial No. 520,494. 9 Claims. (Cl. 83—82.)



1. A classifier comprising a trough shaped container having a series of settling chambers formed therein and arranged in successive order lengthwise thereof, a pressure chamber formed below each settling chamber and communicating with the settling chamber thereabove and provided with an inlet opening and an outlet, valve operated means for admitting water to each pressure chamber and for regulating the pressure thereof and means between the regulating element of the water admitting means of each pressure chamber and the outlet thereof and disposed adjacent one side of the container to continuously indicate the pressure in each pressure chamber to thereby prevent the use of an excessive amount of water and thereby prevent the waste of water.

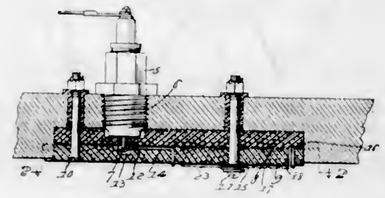
1,476,251. ELECTROLYTIC CELL. ROYAL S. HANDY, Kellogg, Idaho. Filed Aug. 30, 1922. Serial No. 585,290. 3 Claims. (Cl. 204—5.)



1. An electrolytic cell comprising a cylindrical shaped housing, an inner cylindrical shaped housing concentric therewith and spaced therefrom, a helical shaped passage

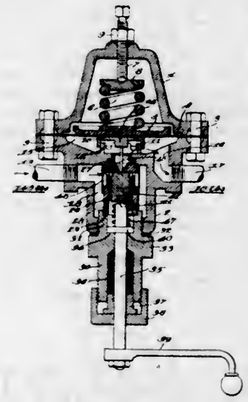
formed between the two cylindrical housing members, a pair of anodes disposed in said passage, a cylindrical cathode disposed between the anodes and separated therefrom, and an inlet and an outlet connection formed with said passage to permit the circulation of an electrolyte.

1,476,252. SPARKING DEVICE FOR INTERNAL-COMBUSTION MOTORS. ALBERT C. HEMPEL, Bartlett, Tex. Filed Dec. 15, 1921. Serial No. 522,617. 1 Claim. (Cl. 123—169.)



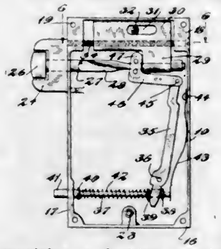
In a sparking device for internal combustion motors, an insulator comprising two disks, one of which has an aperture and the other a recess registering therewith, a spark plug having an electrode extending through the aperture into the recess, a conductor imbedded between the disks and having an end projecting into the recess, conductors imbedded in the insulator and having spark gaps between them, the said conductors being in such relation to each other that current from the first mentioned conductor will travel through the said conductors, and means for grounding one of the conductors.

1,476,253. VALVE STRUCTURE. EDWIN P. HEWITT, Spokane, Wash.; Nellie Hewitt administratrix of said Edwin P. Hewitt, deceased. Filed Nov. 13, 1922. Serial No. 600,488. 5 Claims. (Cl. 50—23.)



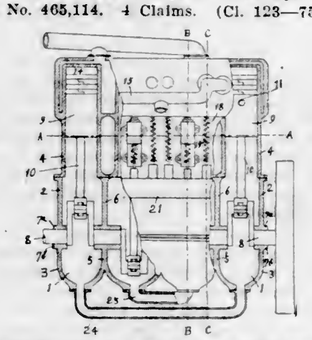
5. A combined pressure reducing and expansion valve structure for ammonia lines, comprising in combination, a casing having high and low pressure connections, a valve for controlling passage of fluid from the high to the low connection, said valve comprising a brond flat seat member and a broad flat closure member both in the plane of flow of the fluid when said members are in separated relation, and means for actuating one of said members from the exterior of said structure when the latter is in service without changing the adjustment of said members.

1,476,254. ELEVATOR-DOOR LOCK. MAXIM JACOBSKY, New York, N. Y. Filed Feb. 24, 1923. Serial No. 620,912. 5 Claims. (Cl. 292—332.)



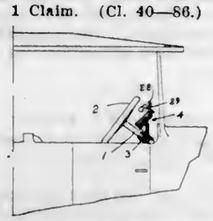
1. A lock comprising a locking member, means for automatically moving said member into its locking position upon the closure of a door, hand operated means for returning said member into its original unlocking position, and means for allowing an adjustment of said locking member to suit various door jambs.

1,476,255. GAS ENGINE. TSUNEJIRO KASHIWABARA, Mii-Gun, Fukuoka-Ken, Japan. Filed Apr. 28, 1921. Serial No. 465,114. 4 Claims. (Cl. 123—75.)



1. A multiple cylinder gas engine of the type referred to having in combination, a plurality of cylinders, a crank shaft, pistons arranged in the cylinders and so connected to the crank shaft that certain of said pistons move in unison, a crank case with a separate compartment for each cylinder, a conduit connection between the crank case compartments of cylinders in which the pistons operate in unison, and a dual system of independent fuel intake manifolds extending lengthwise of the engine and communicating respectively with each cylinder head and each crank case compartment.

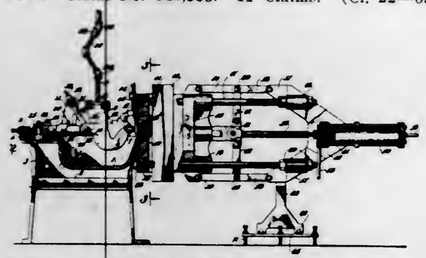
1,476,256. AUTOMOBILE ROAD-MAP HOLDER. HARRY KELLY, Denver, Colo., assignor of one-half to John F. Mathias, Denver, Colo. Filed Nov. 27, 1922. Serial No. 603,531. 1 Claim. (Cl. 40—86.)



A map holder comprising in combination a casing having a cylindrical chamber at each end thereof, a spool removably mounted for rotation in each of said chambers, a removable spindle passing through openings in said

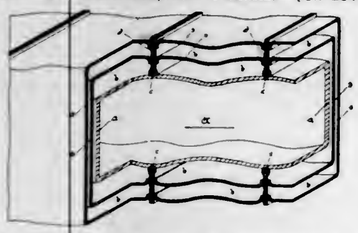
casing and through said spool, said spindle having a non-rotatable connection with the spool whereby the latter may be rotated by rotating the spindle, a cover for said casing, means on the cover for cooperating with means on the spindles for preventing removal of the latter while the cover is in place, an opening in said casing intermediate the cylindrical chambers, a ribbon-like map adapted to be moved past said opening, said map having one end attached to each spool.

1,476,257. DIE-CASTING APPARATUS. JOHN KRALUND and CLARENCE H. DUCKWORTH, Brooklyn, N. Y., assignors to Doehler Die Casting Company, Brooklyn, N. Y., a Corporation of New York. Filed Feb. 9, 1921. Serial No. 443,533. 11 Claims. (Cl. 22—69.)



1. In die-casting apparatus, the combination of a molten metal container, a plurality of carrier devices mounted in parallel relation above said container, having hollow interiors, mouths at the front and compressed air connections at the rear, means for swinging said devices simultaneously, so that said mouths will be submerged within the molten metal in the container in one position and will be registered with die openings in another position, and means for adjusting the positions of said devices independently.

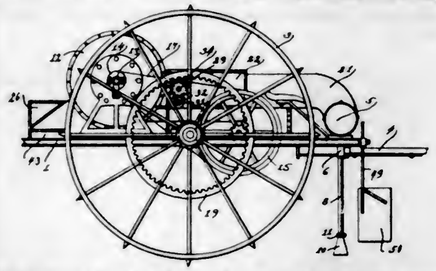
1,476,258. FLEXIBLE TUBE FOR CONDUCTING A COOLING FLUID BETWEEN TWO REFRIGERATOR VATS. FRITZ KROCH, Leipzig, Germany. Filed July 3, 1922. Serial No. 572,393. 1 Claim. (Cl. 137—75.)



An improved flexible tube for conducting a cooling fluid between two refrigerator vats comprising in combination with a leather bellows, one or more canvas protecting envelopes enclosing the said bellows and forming an air insulation therebetween, and vertical partitions of flexible material extending from the outer surface of the bellows to the outer wall of the envelopes for supporting the protecting envelopes and subdividing them into separate compartments.

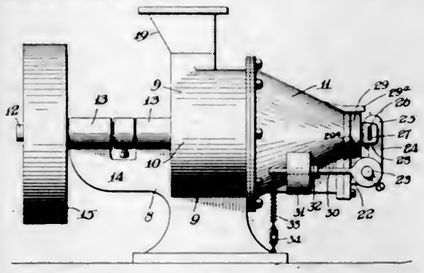
1,476,259. COTTON-BOLL-WEEVIL DESTROYER. JAMES M. LANTZ and EDWARD C. CASON, Alma, Ark. Filed Mar. 20, 1923. Serial No. 626,319. 4 Claims. (Cl. 43—140.)

1. In a machine of the character described including a frame, traction wheels on said frame, a suction chamber at the forward end of said frame, suction tubes communicating with and carried by said suction chamber, a fan casing in the rear of said frame, a suction fan therein, pipes extending from said fan casing and from said suction chamber, a container receiving the free ends of said pipe and interposed between said fan casing and said suction chamber, a discharge pipe extending from said receptacle, a retort on said frame and receiving



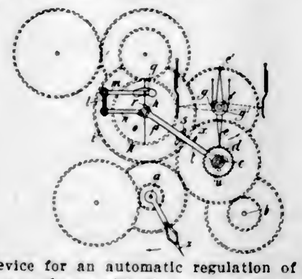
said discharge pipe, a heater for said retort, a container removably mounted in said retort, and means for rotating said suction fan, and a conveyor extending longitudinally in the lower end of said receptacle and said discharge pipe.

1,476,260. MILL. MAYNARD B. MCFEELY, Philadelphia, Pa. Filed Jan. 6, 1920. Serial No. 349,762. 4 Claims. (Cl. 83—13.)



1. A mill of the character described comprising a grinding shell having a discharge opening at one end; guiding lugs spaced apart around the portion of said shell providing said opening, said guiding lugs terminating in outer free ends extending beyond said opening; a member pivotally mounted to swing away from said opening; a gate slidably mounted within the space prescribed by said lugs and having a slidable connection with said member; and means engaging said member and arranged to exert a yielding pressure thereon and on said door, substantially as described.

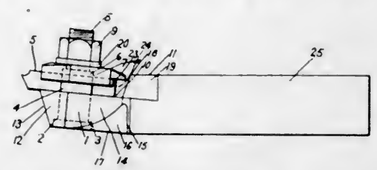
1,476,261. SYNCHRONIZER FOR SECONDARY CLOCKS. PAUL MANSEL, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Nov. 26, 1921. Serial No. 518,079. 3 Claims. (Cl. 58—24.)



1. A device for an automatic regulation of secondary clocks in accordance with the regulation of the master clock comprising, in combination, a contact device for

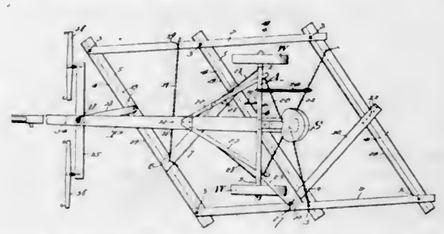
the secondary clocks, a feed-gear controlled by the train of the master clock and by the movement of said contact device, and means connecting said feed-gear with said contact device so that, according to the direction in which the master clock is being regulated, said contact device for the secondary clocks is locked or accelerated until the master clock and the secondray clocks are in accordance from which moment the normal working starts again, substantially as set forth.

1,476,262. MOVABLE TOOL HOLDER FOR LATHES. WILLIAM F. MARSHALL, New York, N. Y. Filed Aug. 23, 1921. Serial No. 494,454. 1 Claim. (Cl. 29—96.)



An adjustable tool for lathes having a shank and a tongue or head, the end of said shank forming an abutment for a cutting tool, said abutment having two angularly disposed faces adapted to reinforce the cutting tool for either right or left hand cutting and a connecting face disposed at approximately right angles to the axis of said shank, said tool holder being provided with means to clamp the tool in any of its cutting positions.

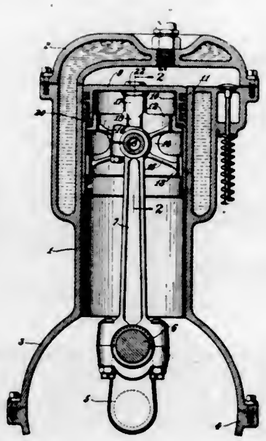
1,476,263. ROAD-WORKING APPARATUS. JOHN J. MARTIN, Hill City, Minn. Filed Jan. 4, 1922. Serial No. 526,922. 2 Claims. (Cl. 37—176.)



1. A road working machine comprising a supporting structure including an axle carrying ground engaging wheels and secured to a draft tongue, and a ground engaging member formed as a frame including spaced parallel side bars arranged outwardly of said wheels, obliquely arranged bars connected with said side bars, blades carried by said obliquely arranged bars, braces connecting the successive oblique bars, a draft link pivotally connected with the tongue and with the forwardmost oblique bar, a plurality of flexible members secured at different points on the ground engaging member and connected with the tongue for preventing lateral displacement of the ground engaging member with the supporting structure, and means on the axle for raising or lowering either side of the ground engaging member.

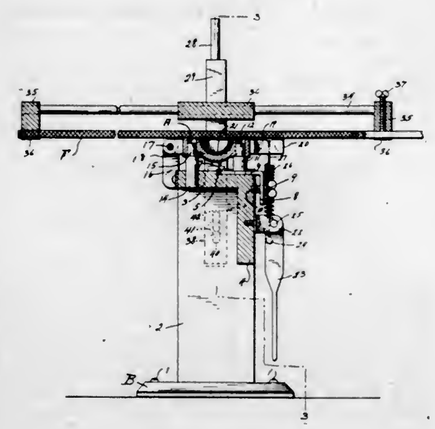
1,476,264. PISTON FOR INTERNAL-COMBUSTION ENGINES. KINCHEN N. MATTHEWS, St. Louis, Mo. Filed July 15, 1920. Serial No. 396,606. 8 Claims. (Cl. 74—108.)

1. A trunk piston, comprising, an outer shell forming the head and side walls of the piston, an inner core having wrist pin bearings, said shell fitting loosely over said core in order to permit endwise removal of said shell therefrom, a fastener passing through the head of said shell and into said core and accessible for manipulation from the head end thereof, and locking means



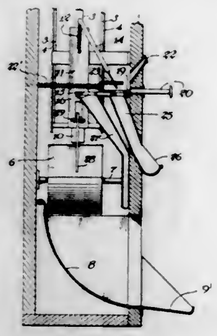
at the core end of said fastener adapted to secure it in position, said locking means being retained so as to permit manipulation of said fastener.

1,476,265. BEARING CLAMP AND FILE GUIDE. JOHN E. MATTHEWS, Fremont, Nebr. Filed Jan. 13, 1923. Serial No. 612,531. 12 Claims. (Cl. 29—76.)



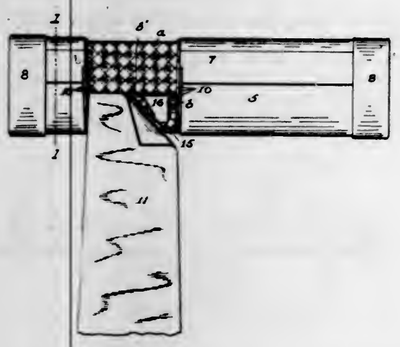
1. A device of the class described comprising, in combination, a support, means for holding a bearing to the support with its surface exposed, an upstanding post carried by the support, a sleeve slidably and rotatably engaged with the post, means carried by the sleeve for holding a file in position for working engagement with said sleeve, and coacting means carried by the post and said second named means for holding the sleeve against swinging movement.

1,476,266. VENDING MACHINE. ROY E. MEADER, Leominster, Mass. Filed Oct. 10, 1922. Serial No. 593,565. 8 Claims. (Cl. 194—69.)



1. In a coin-controlled apparatus including a vending element and a coin-carrier provided with a coin slot, a latch for locking said vending element, and a depending arm pivoted to said latch, the free end of said arm being positioned for cooperation with said coin-carrier.

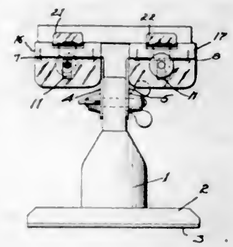
1,476,267. DISPLAY PACKAGING FOR ROLLED RUGS AND THE LIKE. JAMES H. MILLHOLLAND, Philadelphia, Pa. Filed Jan. 22, 1923. Serial No. 614,232. 1 Claim. (Cl. 206—46.)



A display rolled-rug packaging comprising a cover sheet wrapped circumferentially upon the rolled rug with the inner longitudinal edge portion thereof underlying the outer longitudinal edge portion of the rug and the outer longitudinal edge portion thereof extended beyond the outer longitudinal edge of the rug and secured to the outer convolution of the wrapper sheet, said cover sheet being formed with spaced-apart weakened division-lines extending circumferentially of the rolled package intermediately of the length of the latter and said underlying edge portion of the cover sheet being adapted to serve as a longitudinal connecting strip when the sheet portion lying between said division-lines is removed.

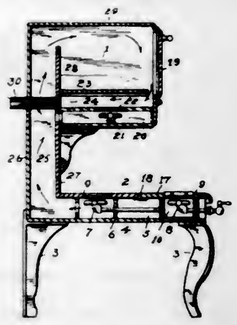
1,476,268. RAZOR-HONE HOLDER. FRANK J. MIRGON, San Francisco, Calif. Filed July 24, 1922. Serial No. 577,194. 1 Claim. (Cl. 51—211.)

A hone holder comprising the combination of the base having a rigid post with a pair of supporting plates, each plate having a laterally extending portion with two depending flanges, each having a longitudinal slot, a bolt for securing the two plates to the post, a rubber pad having a transverse recess carried by each plate, a pair of clamp members resting in the recess of each pad and



having depending lugs projecting therethrough, and a right and left hand threaded rod for bringing said clamping members against the hone, said rod having knurled nuts thereon where the rods project through the slots in said plates.

1,476,269. GAS STOVE. SANFORD I. PEDIGO, Pittsburgh, Pa., assignor of forty-nine one-hundredths to William F. Brown, Pittsburgh, Pa. Filed Feb. 20, 1922. Serial No. 537,937. 1 Claim. (Cl. 126—39.)

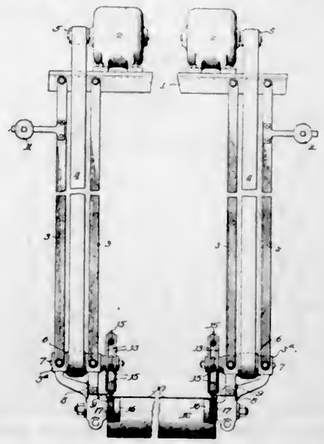


An oven having a flue passage arranged beneath its bottom, the rear wall of said oven being spaced from the top thereof providing a heat inlet to said oven and the bottom of the said oven spaced from the forward wall thereof providing a heat discharge outlet for said oven, said heat inlet at the top of the rear wall establishing communication with a heat passage and said heat discharge outlet at the forward end of the bottom establishing communication with said flue passage, substantially as described and for the purpose set forth.

1,476,270. MACHINE FOR PREPARING FABRIC. EDWARD D. PUTT, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 30, 1921. Serial No. 518,742. 3 Claims. (Cl. 164—64.)

1. In an apparatus for treating selvage, means for supporting fabric in a taut condition, a rotatable roll

over which the edge of the fabric passes, the surface of said roll being provided with a plurality of cutting ele-



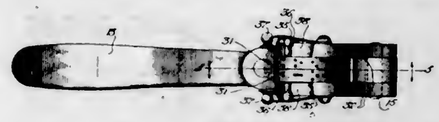
ments, and a plurality of hammers rotatably mounted above said roll arranged to be thrown against the cutting elements thereon by centrifugal action.

1,476,271. CHEESE-WINDING SPINDLE. WILLIAM HERBERT SUTTON, Glasgow, Scotland, assignor to J. & P. Coats, Limited, Glasgow, Scotland, a Company of Great Britain and Ireland. Filed June 4, 1923. Serial No. 643,232. 2 Claims. (Cl. 242—72.)



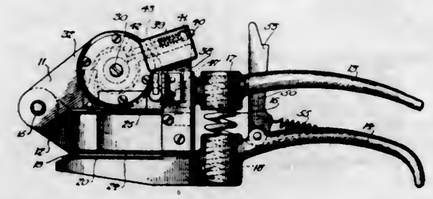
1. In combination with a spindle, a helical spring surrounding said spindle, a stocking surrounding said spring, a removable clearance sleeve comprising metallic segments shaped to form a cylinder surrounding said stocking, and an outer stocking surrounding said sleeve.

1,476,272. HAND PERFORATOR. HJALMAR SWANSON, Chicago, Ill., assignor to Cummins Perforator Company, Chicago, Ill., a Corporation of Illinois. Filed May 31, 1921. Serial No. 473,693. 6 Claims. (Cl. 101—26.)



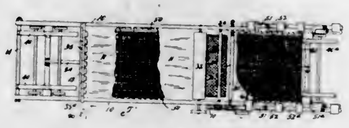
1. In a hand perforator, in combination: a pair of jaw members pivotally connected together; dies carried by one of said members and disposed in a series of fixed-data dies and a series of changeable-data dies; two series of punches respectively corresponding to the said two series of dies, a fixed matrix carried by the other jaw member for operating said fixed-data punches; a revoluble matrix member also carried by said other jaw member and provided with a plurality of matrix faces each of which may operate the changeable-data punches; the fixed matrix and a matrix face of said revoluble member being operated to effect the concurrent operation of both series of punches, during the movement of said jaw members toward each other; a pin for engagement with said revoluble matrix member for positioning said matrix faces; and means for yieldably maintaining said pin in operative position; substantially as specified.

1,476,273. HAND PERFORATOR. HJALMAR SWANSON, Chicago, Ill., assignor to Cummins Perforator Company, Chicago, Ill., a Corporation of Illinois. Filed May 31, 1921. Serial No. 473,694. 8 Claims. (Cl. 101—26.)



1. In a hand perforator, in combination: a pair of jaw members pivotally connected together; dies carried by one of said members and disposed in a series of fixed data dies and a series of changeable data dies; two series of punches respectively corresponding with the said two series of dies; a fixed matrix carried by the other jaw member for operating said fixed data punches; a plurality of revoluble matrix members also carried by said other jaw member and each provided with a plurality of matrix faces each of which may operate the changeable data punches; mechanism operable during movement of said jaw members for rotating said revoluble matrix members to change the positions of such matrix faces, and including means for effecting carrying transfers from one of said matrix members to the other; and means for locking said revoluble matrix members against operation, when the perforator has reached the limit of its capacity; substantially as specified.

1,476,274. COUNTING AND PACKAGING MACHINE. WALTER S. WEBER and MERLIN L. YERGEY, Reading, Pa., assignors to Wm. H. Luden, Inc., Reading, Pa., a Corporation of Pennsylvania. Filed Sept. 5, 1922. Serial No. 586,320. 7 Claims. (Cl. 226—2.)

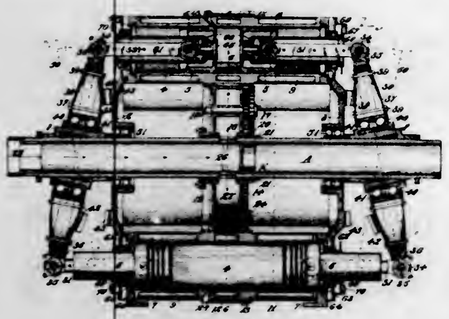


1. In a counting and packaging machine comprising a table having a transverse feed way for a passing series of abutted containers; a delivery plaque movable on said table across said container feed way and having a longitudinal series of tablet-carrying perforations for each of such abutted containers, and means for imparting to said plaque step-by-step longitudinal movement to simultaneously effect a limited discharge from the forward line only of each of said series of tablet-carrying perforations into each of the passing containers.

1,476,275. INTERNAL-COMBUSTION ENGINE. RALPH WISHON, San Francisco, Calif. Filed Nov. 12, 1919. Serial No. 337,476. 17 Claims. (Cl. 123—58.)

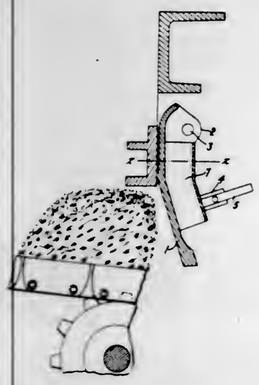
1. An internal combustion engine comprising a central shaft, a plurality of stationary cylinders arranged in circular formation around the shaft and in parallelism with the shaft, a pair of opposed pistons in each cylinder,

a non-rotating swash plate mounted at each end of the cylinders, a rotating swash plate secured to the shaft, ball bearings interposed between each pair of swash plates, a connecting rod connection between each piston and each non-rotating swash plate, a pivotal joint at each end of



each connecting rod, a firing chamber in each cylinder, between the opposed pistons, an inlet and an exhaust port formed in each cylinder, a sleeve valve surrounding each cylinder adapted to open and close the ports, and means for transmitting power from the shaft to rotate the sleeve valves in unison.

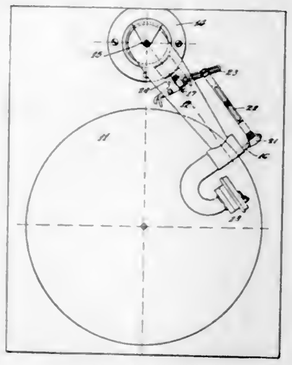
1,476,276. SEALING DEVICE FOR TRAVELING-GRATE FURNACES. HENAY WITZ, Oberhausen, Germany, assignor to Babcock & Wilcox Company, New York, N. Y. Filed Dec. 21, 1922. Serial No. 608,199. 5 Claims. (Cl. 110—40.)



1. An ash and clinker collecting and air sealing device for traveling grates for furnaces consisting of a metallic body mounted for rocking movement at the rear of the grate, said body having a plurality of substantially vertical ducts integral with said body and located on the side remote from the furnace, said ducts being open at the top and the bottom, whereby a defined circulation of cooling air is established through said ducts by the heat of the furnace.

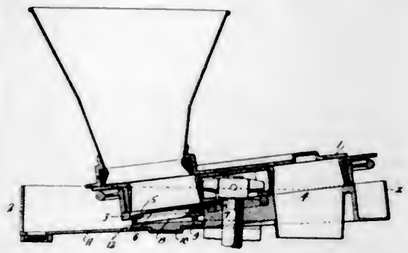
1,476,277. CONTROLLING DEVICE FOR PHONOGRAPHS. MONTAGUE ADAIR, Brooklyn, N. Y. Filed Mar. 29, 1920. Serial No. 369,655. 10 Claims. (Cl. 192—122.)

1. In combination, a phonograph including a turntable and a tone arm pivoted to move across the face of said turntable, a member depending from said tone arm, a member secured by the pivot support of said tone arm, said



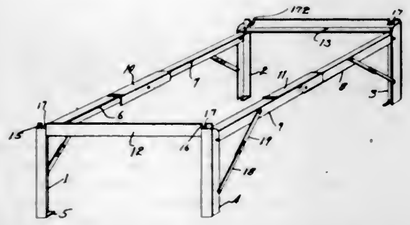
member having a plurality of stops engaged by said depending member to limit the travel of said tone arm.

1,476,278. CAN-FILLING MACHINE. CHARLES H. AYARS, Salem, N. J., assignor to Ayars Machine Company, Salem, N. J. Filed Feb. 27, 1923. Serial No. 621,528. 4 Claims. (Cl. 221—109.)



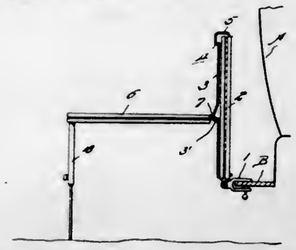
1. The combination, in a canning machine, of a bed plate having an opening beneath the hopper throat with a compression plate adjustably mounted in the opening.

1,476,279. FOLDING BED FRAME. HAROLD R. BASFORD, San Francisco, Calif. Filed Feb. 13, 1922. Serial No. 536,339. 4 Claims. (Cl. 5—112.)



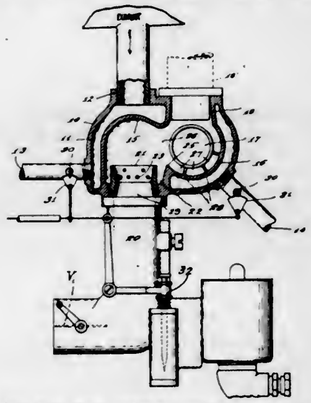
1. A folding bed frame comprising an end rail, a pair of side rails pivotally connected with the end rail, legs pivotally connected to the side rails, braces for each leg, and a lug carried by the leg to engage the end rail to brace the bed corner in one plane.

1,476,280. COMBINATION BED, TABLE, AND ARTICLE CARRIER FOR AUTOMOBILES. FRANK E. BOWDEN, Fresno, Calif. Filed Nov. 21, 1922. Serial No. 602,380. 1 Claim. (Cl. 5—119.)



In combination, an inner bed section adapted to be hingedly secured to the running board of an automobile, an outer bed section slidably and hingedly secured to the inner section and adapted to be supported substantially intermediate the ends of the inner section when the same is vertically disposed upon the running board, the said sliding and hinge connections between the two sections permitting the inner section to be swung downwardly to extend parallel to the outer section for providing a bed and supporting means at the opposite ends of the outer section when the said sections are so disposed.

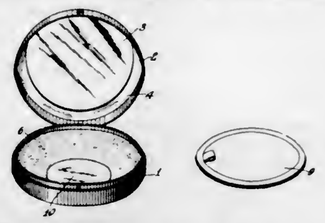
1,476,281. HOT-SPOT MANIFOLD. ROBERT WELLESLEY ANTONY BREWER, Dayton, Ohio. Filed Aug. 11, 1920. Serial No. 402,897. 15 Claims. (Cl. 48—180.)



15. A hot spot fuel passage comprising an inlet, a deflecting wall arranged to receive the impact of the fuel from the inlet, a vortex chamber receiving the deflected flow from the deflecting wall, said vortex chamber having diametrically oposed discharge eyes and an intermediate discharge eye in a direction at right angles to the direction of the first-mentioned eyes, ripple ridges arranged transversely in the lower part of the vortex chamber to form a series of puddle pockets, an annular wall arranged beneath the deflecting wall around the inlet passage to form an annular puddle pocket, and an enveloping heating chamber.

1,476,282. VANITY CASE. OSWALD J. CATHCART, Newburgh, N. Y. Original application filed Oct. 2, 1922, Serial No. 591,712. Divided and this application filed Jan. 26, 1923. Serial No. 614,973. 3 Claims. (Cl. 132—83.)

1. A vanity case comprising a main body member and a main cover member therefor, said members being hinged together, a rouge compartment of smaller diameter than said main members located within and eccentrically with respect to one of the said main members, and having its mouth within the space between said main members, one of said main members being provided with a powder compartment within the same, but out of communication with the rouge compartment, a puff in said rouge compartment,

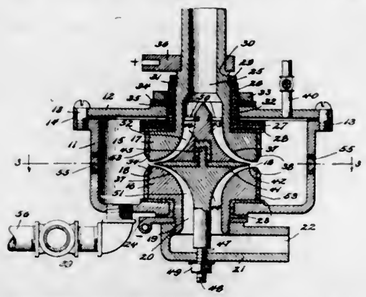


a powder puff of substantially the same diameter as the said main members, located in the space between said main members and extending across the rouge compartment, and a mirror carried by said main cover member, whereby when said case is open both powder and rouge may be applied by the aid of said mirror.

1,476,283. PROCESS FOR THE MANUFACTURE OF AMMONIA. IVAR WALFRID CEDERBERG, Lidingo-Brevik, near Stockholm, Sweden, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Filed Mar. 3, 1921. Serial No. 449,553. 1 Claim. (Cl. 23—21.)

The process of synthesizing ammonia from its elements under pressure, which comprises passing a mixture of nitrogen and hydrogen under heat and pressure in contact with a catalyst consisting of a metal of the iron group, and a promoter consisting of a cyanide of an alkalinous metal, said catalyst not including the decomposition product of a complex cyanide of iron and an alkalinous metal.

1,476,284. METHOD OF ELECTROLYSIS. FARLEY GRANGER CLARK, Toronto, Ontario, Canada. Filed Apr. 7, 1921. Serial No. 459,291. 25 Claims. (Cl. 204—1.)

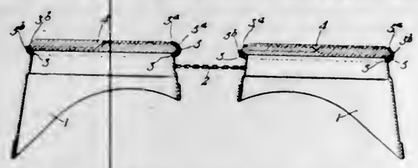


1. The electrolytic process which comprises flowing a stream of electrolyte across an unobstructed electrolyzing zone at a velocity great enough to prevent substantial interdiffusion of the resultant anodic and cathodic products while in said zone, and then dividing said stream into separate portions comprising anodic and cathodic products, respectively.

1,476,285. HOLDER FOR DISK-SHAPED OBJECTS. HORACE H. CLARK, Hartsdale, N. Y., assignor to Clark Fibre Products Corporation, a Corporation of Delaware. Filed Mar. 21, 1923. Serial No. 626,719. 2 Claims. (Cl. 2—149.)

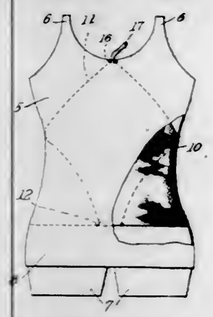
1. The combination with a disk-shaped member, of a holder therefor, comprising a rigid circular flange adapted to surround and support said disk-shaped mem-

ber, said flange having a projection overhanging the periphery of said member throughout an angle of not more than 180° thereof, and a ring-shaped member



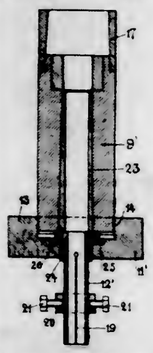
mounted and rotatable on said flange having an overhanging portion extending throughout an angle of not more than about 180° of its circumference.

1,476,286. INFLATABLE SWIMMING GARMENT. JULIAN CZYZYKOWSKI, Harrison, N. J. Filed Aug. 10, 1923. Serial No. 656,706. 3 Claims. (Cl. 9—20.)



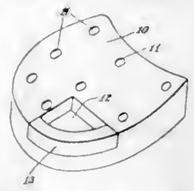
1. The combination with a bathing garment, of a triangular rubber bag secured at its respective corners to the neck and waist to extend over the breast and sides, and means for inflating said bag.

1,476,287. MOLD FOR THE CASTING ON OF SHAFTS FOR TWIST DRILLS AND SIMILAR TOOLS. ADOLF FRIEDRICH DEISSEL, Mannheim, Germany, assignor to the Corporation of Fritz Neumeyer Aktiengesellschaft, Nuremberg, Germany. Filed Aug. 29, 1921. Serial No. 496,454. 8 Claims. (Cl. 22—116.)



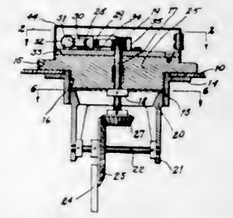
1. An improved casting mold for the casting on of shafts of twist drills or similar tools, comprising in combination a casting mold having a cylindrical bore, a centering device for the drill also having a cylindrical bore and means for rigidly but removably connecting the two parts.

1,476,288. RUBBER HEEL. WALTER ENOCH, Worcester, Mass. Filed Sept. 28, 1921. Serial No. 503,909. 1 Claim. (Cl. 36—35.)



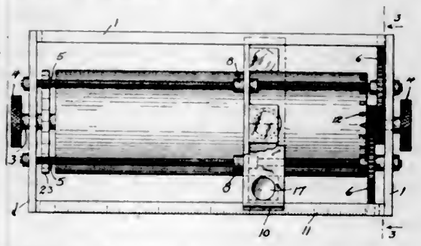
A rubber heel having a segmental cut out portion at the rear thereof, said portion being of substantially less depth than the height of the heel, and an arcuately shaped marginal strip of rubber having greater resiliency than the heel itself and disposed peripherally about the cut out portion of the heel, the faces of the strip being flush with the corresponding faces of the heel.

1,476,289. LIQUID-LEVEL INDICATOR. TOBIAS M. FEDER, New York, N. Y. Filed Dec. 13, 1921. Serial No. 522,193. 1 Claim. (Cl. 219—48.)



A rheostat comprising a circular insulator, a spindle rotatably mounted axially in said insulator, a concentric resistance coil fixed on said insulator, a lever fixed to said spindle, having a square hole at its outer end, a shank slidable in said hole, a yoke rigid with said shank, a roller having a concave periphery adapted to contact with the coil convolutions carried by said yoke, a spring adapted to urge said roller against the convolutions of said resistance coil, and means for actuating said spindle.

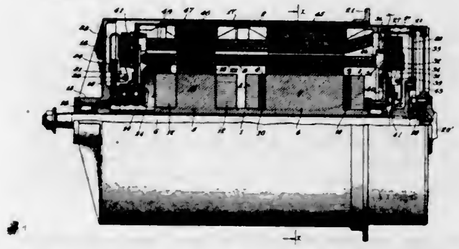
1,476,290. READING MACHINE. BRADLEY A. FISKE, New York, N. Y. Filed June 17, 1920. Serial No. 389,691. 7 Claims. (Cl. 88—1.)



1. The art of providing reading matter for the public which consists in producing printed reading matter, comprising successive words requiring consecutive observation to present intelligible thought, in type decipherable by direct vision, reducing the printed matter photographically on a sheet in characters of microscopic size, and securing relative movement of the sheet carrying such microscopic characters with respect to a lens

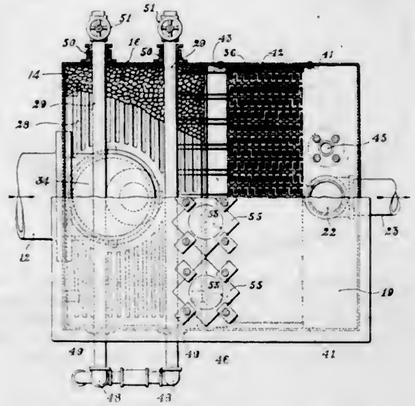
system, and at a fixed distance therefrom, whereby the microscopic characters will be sufficiently magnified as to be read by the observer, the relative movement being such as to result in the successive passage of the characters across the field of the lens system to permit the words to be consecutively read, substantially as set forth.

1,476,291. POWER TRANSMISSION AND CONTROL. ETHELBERT MERKLE FRASER, Yonkers, N. Y. Filed Sept. 19, 1919. Serial No. 324,754. 40 Claims. (Cl. 290—10.)



1. An electric machine comprising two sets of field magnets, an armature, and an independently rotatable second winding concentric with said armature and intermediate said armature and both sets of field magnets.

1,476,292. GAS-PURIFYING APPARATUS. ALBERT L. GALUSHA, Sharon, Mass. Filed May 24, 1919. Serial No. 299,457. 10 Claims. (Cl. 183—22.)

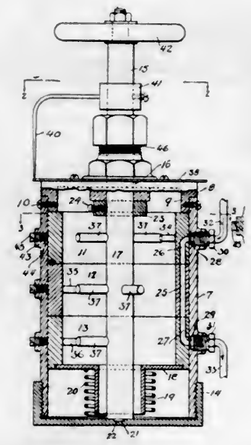


1. A gas purifying apparatus having, in combination, a cooling device into which the hot gas passes, a delivery pipe for the cooled gas, and a vent pipe between the cooling device and the delivery pipe through which the gas may be discharged directly into the air.

5. A baffle plate for a gas purifying device comprising a central web having a plurality of transverse deflecting ribs extending from opposite sides thereof the plate being adapted for assembly in parallelism with similar plates to provide tortuous passages for the gas.

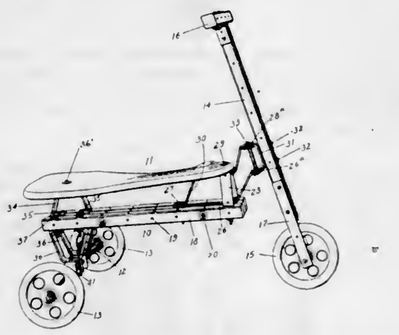
1,476,293. FUEL LOCK FOR AUTOMOBILES. AMOS F. GANTZ, Woodstown, N. J. Filed Feb. 20, 1922. Serial No. 537,804. 8 Claims. (Cl. 277—41.)

1. In a device of the character described, relatively movable members in the form of rings having ducts therein; and means extending through said rings and including arms operating in the space provided within said



rings for moving said members with their ducts into and out of alignment; substantially as described.

1,476,294. TOY VEHICLE. ALFRED C. GILBERT, New Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Filed June 26, 1919. Serial No. 306,773. 6 Claims. (Cl. 208—165.)

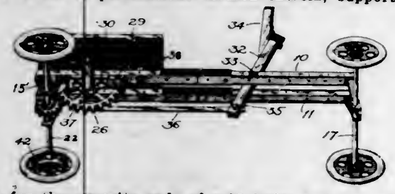


1. In a toy vehicle, a body member having rear ground engaging devices secured thereto, a seat member secured thereon in spaced relation to said body member, a steering member disposed forwardly of said seat and body members and having a ground-engaging device thereon, and means rigidly secured to the body member, and passing between it and the seat and extending forwardly from the seat and body members and having a swiveled connection with the steering member to movably connect the latter to the body member.

1,476,295. TOY VEHICLE. ALFRED C. GILBERT, New Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Filed July 14, 1919. Serial No. 310,562. 5 Claims. (Cl. 208—34.)

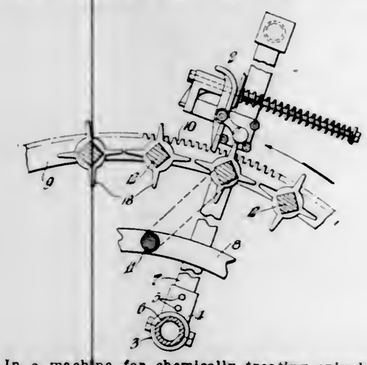
1. In a construction toy vehicle, a relatively long composite body formed of elongated pieces detachably secured

together in end to end abutting relation, each piece having a series of perforations formed therein, supporting



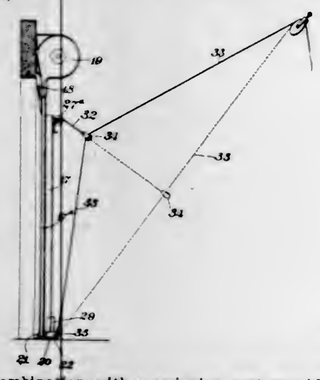
axles for the opposite ends of said body, and means including bolts extending through said perforations for securing said axles to said body in various relations.

1,476,296. SNUBBING DEVICE FOR DYE STICKS. DONALD M. GILES, Philadelphia, Pa., assignor to John H. Giles, trading as Giles Dyeing Machinery Company, Philadelphia, Pa. Filed Nov. 11, 1922. Serial No. 600,462. 5 Claims. (Cl. 8—19.)



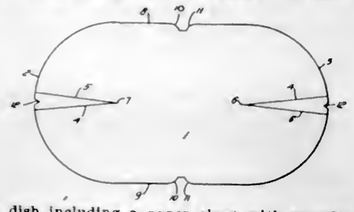
1. In a machine for chemically treating spinable material, a stick adapted to support a skein, a stick rotating member, and a snubbing member arranged to prevent rotation in one direction and to permit rotation in the opposite direction.

1,476,297. MOVABLE DOORPOST AND LATCHING MEANS THEREFOR. RALPH H. GREEGOR, Columbus, Ohio, assignor to The Kinnear Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Nov. 20, 1922. Serial No. 602,012. 3 Claims. (Cl. 268—1.)



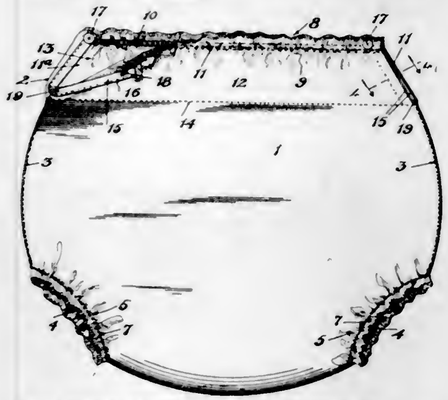
1. In combination with a swinging post provided with a pulley at its upper portion, a sliding weight on the post, a latch carried by said weight, a cable attached to said weight and passed over said pulley, a second cable connected with the lower end of the post and slippingly engaging the free end of said first named cable and a stop engaged by said latch when the post is in closed position.

1,476,298. PAPER DISH BLANK. WILLIAM ANSLEY GREEN, Toronto, Ontario, Canada, assignor to Samuel J. Moore, Toronto, Ontario, Canada. Filed July 23, 1920. Serial No. 398,492. 7 Claims. (Cl. 229—31.)



2. A dish including a paper sheet with rounded ends, each end having a folded portion terminating substantially on the center line of the sheet and such folds being spaced apart.

1,476,299. GARMENT PROTECTOR. GEORGE K. GUINZBURG, New York, N. Y., assignor to I. B. Kleinert Rubber Company, New York, N. Y., a Corporation of New York. Filed June 11, 1921. Serial No. 476,673. 4 Claims. (Cl. 128—288.)



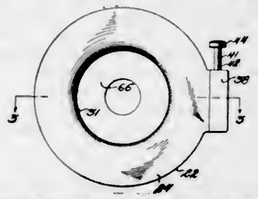
4. An article of the class described comprising a garment having a front flap and a rear flap, fastening means on the waist band of said garment for uniting said flaps, said flaps each being shirred at their upper edge, a strip of expansible material secured to one face of each of said flaps over the shirring thereon, said flaps being made of a pervious material throughout their length with the body of the garment below said flaps made of an impervious material.

1,476,300. MILK-CAN VENTILATOR. OLEF T. LARSON, Stoughton, Wis. Filed Mar. 3, 1922. Serial No. 540,889. 1 Claim. (Cl. 31—84.)



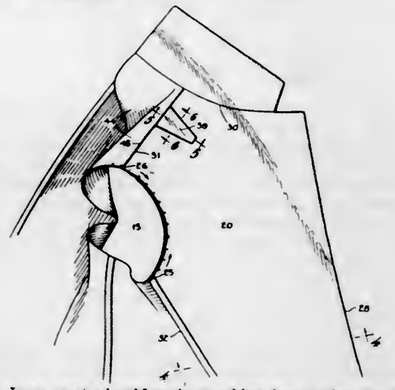
A milk can closure having an opening formed centrally thereof, a ventilator including a body portion disposed within the opening, said body portion having a groove formed intermediate its ends, a screening element disposed in the groove, said body portion having cut out portions providing upper and lower shoulders, sealing members positioned in the cut out portions and resting on the shoulders for guarding the screening element.

1,476,301. SOUND-CUT-OFF DEVICE. THEODORE F. ROSE, Jr., Collingswood, N. J. Filed Mar. 17, 1921. Serial No. 452,913. 5 Claims. (Cl. 179—188.)



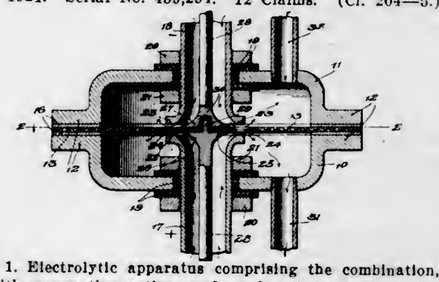
1. The combination with a telephone transmitter having a sound opening; a casing having an opening registering with said opening; a shutter movably connected to said casing; latching mechanism carried by said shutter and normally urged to engaging position; and actuating means by an operative stroke moving said shutter to closed position and causing engagement of said latching mechanism, said actuating means on its reverse stroke being yieldable to pass said latching mechanism; substantially as described.

1,476,302. GARMENT. WILLIAM SCHWARTZ, New York, N. Y., assignor to Heidelberg, Wolf & Company, New York, N. Y., a Copartnership consisting of Seymour A. Strauss, Howard F. Field, Millard F. Koch, and Fred R. Wolff. Filed Aug. 6, 1923. Serial No. 655,874. 5 Claims. (Cl. 2—61.)



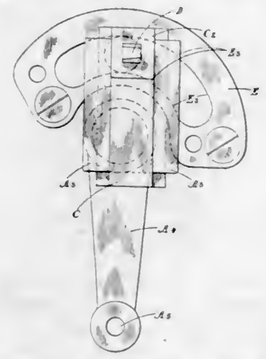
1. In a coat shoulder, in combination, a forefront, a facing, and an intermediate stiffening member, the stiffening member and the facing having affixed thereto at the shoulder crest an insert of a material of a different degree of yieldability than that of the associated parts.

1,476,303. ELECTROLYTIC APPARATUS. JAMES NORMAN SMITH, Toronto, Ontario, Canada. Filed Apr. 7, 1921. Serial No. 459,294. 12 Claims. (Cl. 204—5.)



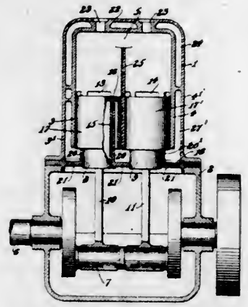
1. Electrolytic apparatus comprising the combination, with cooperating active anode and cathode surfaces disposed in closely spaced relation and defining an electrolyzing zone of small transverse width measured parallel to said surfaces, of conduit means arranged to direct flow of electrolyte toward, across, and away from said zone in streams which contact with one another only while crossing said zone.

1,476,304. APPARATUS FOR GENERATING GEAR TEETH. HERBERT EDGAR TAYLOR, Coventry, England. Filed July 24, 1923. Serial No. 653,453. 3 Claims. (Cl. 90—9.)



1. In a device for the generation of curved gear teeth, the combination of a member adapted to oscillate about a relatively fixed axis, a tool holder slidable upon said member toward and away from said fixed axis, a rack tool mounted in said holder, a stationary member and means on said tool holder adapted to cooperate with the said stationary member so as to reciprocate said tool holder upon said oscillating member during its oscillatory movement, thereby to cause said tool to sweep out the desired curved path.

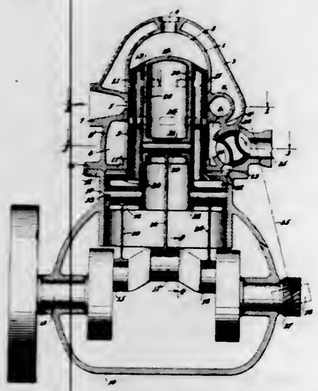
1,476,305. INTERNAL-COMBUSTION ENGINE. CHARLES J. TÓTH, New York, N. Y., assignor to International Process and Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 16, 1922. Serial No. 544,359. 8 Claims. (Cl. 123—53.)



1. In an internal combustion engine, the combination of a crank shaft, a duplex cylinder having a common combustion-chamber and parallel portions arranged symmetrically with respect to the center line of the crankshaft with their center lines on opposite sides thereof, pistons in said parallel cylinder portions and connecting rods of equal length connecting said pistons with portions of the same crank of said crankshaft separated in the lengthwise direction of said crankshaft, one of said parallel cylinder portions having an exhaust opening controlled by one of said pistons and the other having an inlet opening controlled by the other piston, said parts

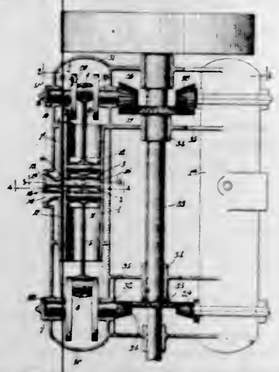
being arranged to cause the exhaust opening to be opened and closed respectively by one piston before the inlet opening is opened and closed respectively by the other piston.

1,476,306. INTERNAL-COMBUSTION ENGINE. CHARLES J. TÓTH, New York, N. Y., assignor to International Process and Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 16, 1922. Serial No. 544,360. 8 Claims. (Cl. 123—71.)



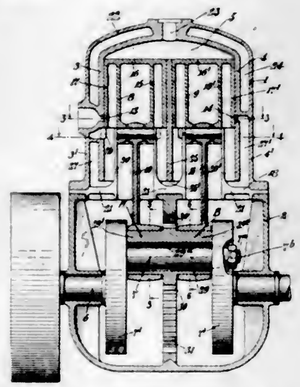
7. In an internal combustion engine, the combination of a cylinder, a piston, having inner and outer walls, slidably mounted therein, said inner and outer walls each having an opening therethrough, said cylinder having intake and exhaust ports, an inner piston slidably mounted in the inner wall of said first piston, and means for causing said pistons to reciprocate in such manner as to cause said outer wall opening of said outer piston to register with said cylinder intake at one time, said inner piston to uncover said inner wall opening of said outer piston when charge is to be admitted to the combustion chamber, and the outer wall of said outer piston to uncover said exhaust port when exhaust from said combustion chamber is to take place.

1,476,307. INTERNAL-COMBUSTION ENGINE. CHARLES J. TÓTH, Stapleton, N. Y., assignor to International Process and Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 15, 1922. Serial No. 553,054. 18 Claims. (Cl. 123—51.)



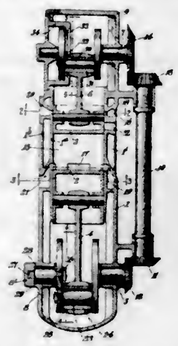
9. In an internal combustion engine, the combination of a cylinder having separated inlet and exhaust ports, piston means in said cylinder, a single sleeve valve controlling said ports and having a single opening therein and means for operating said sleeve valve, to cause it to move into a position to open said inlet port by aligning said opening therewith, then into position to close both ports and to remain stationary in such position for an interval, and then into position to open said exhaust port by aligning said opening therewith, said operation being repeated cyclically.

1,476,308. INTERNAL-COMBUSTION ENGINE. CHARLES J. TÓTH, Stapleton, N. Y., assignor to International Process and Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 29, 1922. Serial No. 557,431. 28 Claims. (Cl. 123—53.)



1. In an internal combustion engine, the combination of a crank shaft, a cylinder comprising a pair of parallel cylinder portions arranged with their axes in a plane which also includes the axis of the crank shaft, pistons in said cylinder portions, and connections between said pistons and crank shaft such that both pistons will have strokes of equal length, and both will start together on certain strokes in the same direction from corresponding points in their respective cylinder portions at approximately the same times, but that one piston will obtain a lead over the other after passing such point.

1,476,309. INTERNAL-COMBUSTION ENGINE. CHARLES J. TÓTH, Stapleton, N. Y., assignor to International Process and Engineering Corporation, New York, N. Y., a Corporation of New York. Filed May 3, 1922. Serial No. 558,102. 13 Claims. (Cl. 123—53.)



1. In a four cycle internal combustion engine, the combination of a cylinder having inlet and exhaust ports

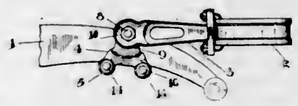
therein, a pair of pistons, in axial alignment with each other in said cylinder, and movable towards and away from each other to establish a combustion chamber between them, a pair of crankshafts, movable at different speeds, and means comprising connections between said crankshafts and pistons, respectively, for so moving said pistons, cyclically, as to cause one of the same, singly, to open and close said inlet port, and the other to open and close said exhaust port, at suitable times.

1,476,310. TROUSERS-STRETCHING FRAME. EDWARD VAN SICKLEN, New York, N. Y. Filed Apr. 5, 1923. Serial No. 630,108. 9 Claims. (Cl. 223—19.)



1. In a trousers stretcher, a pair of resilient crease forming elements, means for connecting the lower ends of said elements at selected angles, and resilient means connecting said members intermediate their lengths and arranged to adjustably vary the distance yieldably between the points connected by said means.

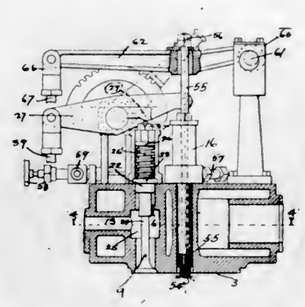
1,476,311. SUPPORTING DEVICE FOR AUTOMOBILE BUMPERS. LOUIS M. SINGER, Toronto, Ontario, Canada. Filed Dec. 20, 1922. Serial No. 608,082. 14 Claims. (Cl. 293—55.)



1. Means for connecting an automobile bumper to a channel frame member including a member adapted to fit against the web of the channel member; and two bent one-piece clamp bars each extending through the web abutting member and adapted to span one of the flanges of the channel and engage the inner surface of the web; and means for setting up the clamp bars.

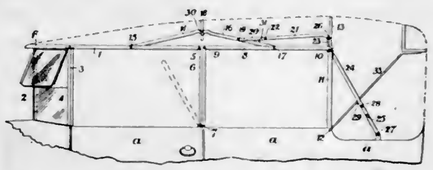
1,476,312. VALVE CONTROL FOR DIESEL ENGINES. AXEL WARENSKJOLD, Oakland, Calif., assignor to Atlas Imperial Engine Company, Oakland, Calif., a Corporation of California. Filed July 24, 1922. Serial No. 577,258. 10 Claims. (Cl. 60—16.)

1. In combination with an internal combustion engine having air intake and exhaust valves therein, of a fuel inlet valve in said engine; a compressed air inlet valve in said engine; an eccentric shaft rotatably journaled on said engine; rocker arms pivotally mounted on said eccentric shaft for actuating each of said valves; and means to move said eccentric shaft supporting the



rocker arms to operate said compressed air inlet valve and exhaust valve independently of said air intake, exhaust and fuel inlet valves.

1,476,313. FOLDING HOOD FOR MOTOR ROAD VEHICLES AND OTHER VEHICLES. GEORGE HAROLD WENHAM, Bromley, England, assignor to G. Beaton & Son (1919) Limited, London, England, a Corporation of Great Britain. Filed Jan. 11, 1922. Serial No. 528,442. 8 Claims. (Cl. 296—116.)

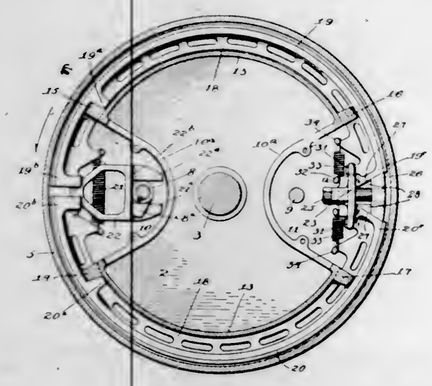


7. In a hood frame for automobiles and other vehicles, the combination with pillars hinged at one end to the vehicle body and on both sides of the vehicle, cant-rails made in parts hinged together and pivoted to the pillars, a pair of scissors-levers pivoted to the cant-rails on each side of the vehicle, a hoop-stick connecting said pairs of scissors-levers near their hinges for transversely supporting the hood when in use, and hinged locking joint-levers pivotally connected to the pillars and to the car body, of an extension on one of the locking joint-levers, a two part jointed link pivotally connected at one end to the said extension and at the other end to a scissors-lever member, a stop to limit the upward flexing of the jointed link parts, and an abutment of said jointed link adapted to bear against a support whereby after the forward end of the hood has been raised one of said link parts forms a thrust member operative upon the locking joint-levers extension to effect the flexing of the locking joint-levers upon further raising the hood while folding the same, substantially as set forth.

1,476,314. VEHICLE BRAKE. RICHARD A. WHITTINGHAM, Newark, Del., assignor to Atlas Axle Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 11, 1921. Serial No. 436,565. 3 Claims. (Cl. 188—78.)

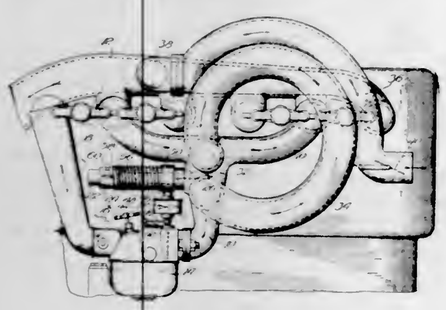
1. In a vehicle brake, the combination with a brake drum, of a support within the drum, a split brake ring movable endwise on said support and comprising two

shoes and an expansion joint connecting said shoes and movable with the shoes as a unit, means adjacent each



end of the ring for limiting its endwise movement, and means for spreading the ends of the ring apart to expand the ring into engagement with the drum.

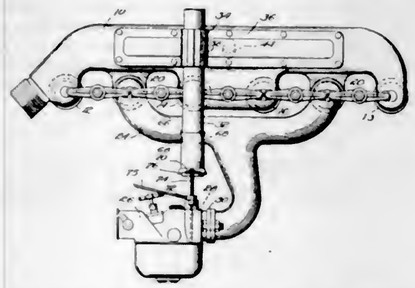
1,476,315. METHOD AND APPARATUS FOR CONTROLLING INTERNAL-COMBUSTION ENGINES. IRVEN H. WILSEY, Chicago, Ill., assignor, by mesne assignments, to Wilsey Incorporated, a Corporation of Delaware. Filed Apr. 29, 1920. Serial No. 377,455. 14 Claims. (Cl. 123—122.)



1. The method of controlling the fuel supply to an internal combustion engine comprising varying the temperature and density as functions of the vacuum controlled temperature in the inlet passages and varying the richness as a function of both the vacuum and the throttle opening.

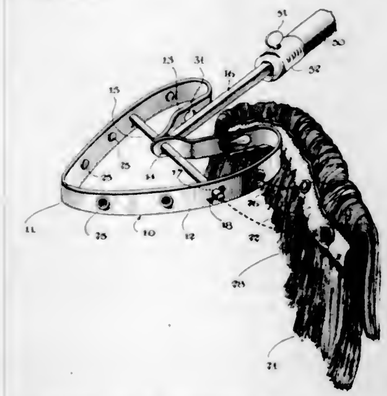
1,476,316. METHOD AND APPARATUS FOR CONTROLLING INTERNAL-COMBUSTION ENGINES. IRVEN H. WILSEY, Chicago, Ill., assignor, by mesne assignments, to Wilsey Incorporated, a Corporation of Delaware. Filed Oct. 29, 1920. Serial No. 420,329. 10 Claims. (Cl. 123—124.)

1. In combination with an internal combustion engine having an inlet manifold, an exhaust manifold and a carburetor, two valve means in series, one of said valve means tending to permit a flow of air increasing with increased throttle opening, and the other valve means tending to permit a flow of air increasing with increased vacuum in the inlet manifold, means for heating the air flowing through said valves, and means for deliver-



ing the heated air into the mixture from the carburetor, said first mentioned valve means permitting appreciable leakage at high vacuums.

1,476,317. MOP. WALTER HARVEY ZACHRY, Atlanta, Ga. Filed Oct. 3, 1921. Serial No. 505,048. 4 Claims. (Cl. 15—229.)

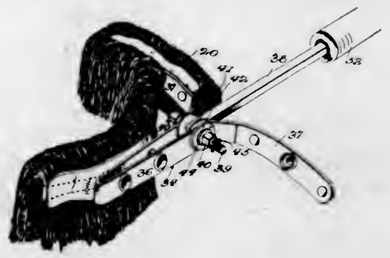


1. A cleaning device comprising a frame formed from a length of spring metal bent intermediate its ends to provide a pair of diverging spring sides, the terminal portions of said spring sides being extended inwardly and forwardly and being apertured to provide attaching arms, a rod extending through the aperture in said arms and having a shank for attachment to a handle arranged between the arms, the terminal portions of said rod being extended through and terminating beyond said spring sides, and fastening devices carried by the extended end portions of said cross rod and frictionally contacting with said spring sides to hold the same in an adjusted position.

1,476,318. MOP. WALTER HARVEY ZACHRY, Atlanta, Ga. Original application filed Oct. 3, 1921, Serial No. 505,048. Divided and this application filed June 28, 1923. Serial No. 570,760. 1 Claim. (Cl. 15—229.)

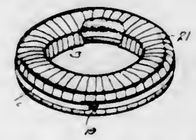
A mop comprising a length of spring metal bent intermediate its ends to define a pair of slightly diverging spring sides, the rear portions of which are extended outwardly to define branches, said spring sides being formed with aligned openings, between their upper and lower edges, a shank having a transverse bolt extending through said openings, washers mounted on said

bolt and flatly engaging opposite surfaces of said spring sides, nuts threaded on opposite ends of said bolts and tightly engaging said washers with said shank and said sides, whereby said length of spring metal is held in a set position and a cleaning element detachably



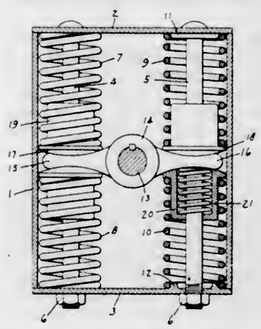
applied to the outer surfaces of said sides and the rear surfaces of said branches, said cleaning element being in the plane of said bolt, and washers and nuts to prevent destructive contact of the last named part with the objects being cleaned.

1,476,319. ART OF PACKAGING ARTICLES. EDWARD H. ANGIER, Framingham, Mass. Filed Nov. 16, 1916. Serial No. 131,789. Renewed Apr. 19, 1923. 2 Claims. (Cl. 206—46.)



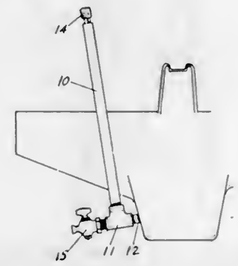
1. A sealed package comprising an elastic tire having circumferentially extending wrapping material snugly enclosing it, said package being characterized by the fact that the tire is held under compression during the fitting and sealing of the wrapping material.

1,476,320. SHOCK ABSORBER. WILLIARD A. ANGLEMYER, Indianapolis, Ind. Filed Apr. 17, 1922. Serial No. 553,384. 3 Claims. (Cl. 267—20.)



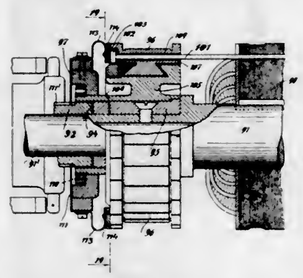
1. In a combined shock absorber and rebound check for vehicles, springs arranged in pairs, an actuating member comprising a hub and a pair of laterally extending integral arms, each arm passing between the inner ends of the respective pairs of springs, means for rocking the actuating member in either direction for compressing one or the other of the pairs of springs, wear plates introduced between the inner ends of the springs and said arms, a pocket on each wear plate fitting within the end of its respective spring for holding the spring centered around its bolt, and an auxiliary spring in each pocket adapted to press against said arms for holding the plates in engagement with the ends of the springs at all times and check the quick return movement of the actuating member.

1,476,321. OIL GAUGE. ALLEN A. ASHWORTH and ROBERT V. QUICK, Lincoln, Nebr., assignors of one-third to (Dr.) S. L. Ashworth, Lincoln, Nebr. Filed Feb. 6, 1922. Serial No. 534,470. 1 Claim. (Cl. 73—120.)



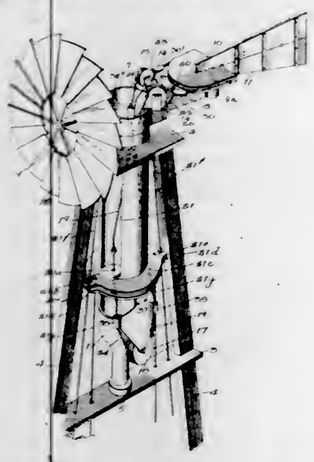
An oil gauge for automobile engines, comprising a tubular member which is adapted to be attached to the crank case of the engine, the tubular member extending upward and through the floor of the automobile, and a gauge rod slidable in said tubular member, said tubular member being circular in cross section and said gauge rod being rectangular in cross section, the diameter of the circular cross section being slightly greater than the diagonal of the rectangular cross section, said tubular member terminating in an elliptical mouth at its upper end, the arrangement being such that a partial turn of the gauge rod will wedge the edges of the gauge rod in the elliptical mouth of the tubular member to prevent the sliding and the rattling of the gauge rod in the tubular member.

1,476,322. ELECTRIC STARTER FOR INTERNAL-COMBUSTION ENGINES. ÁRPÁD BARÉNYI, Berlin-Lichterfelde, and PAUL KAEMMERER, Charlottenburg, Germany. Filed Nov. 28, 1922. Serial No. 603,764. 15 Claims. (Cl. 290—31.)



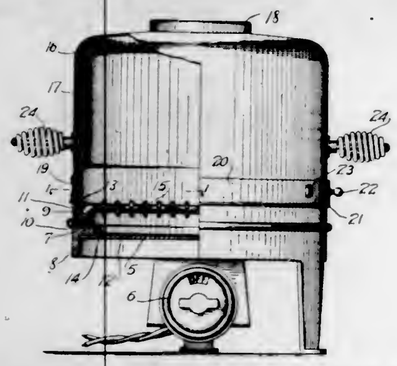
1. In an electric starter for prime movers, the combination, with an armature, and the winding thereof made in sections, of a commutator, and means to connect the sections of the armature winding to the lamellæ of the commutator selectively for producing high or low armature resistances.

1,476,323. WINDMILL ATTACHMENT. JOSEPH PAUL BERGER, Uvalde, Tex. Filed Oct. 17, 1922. Serial No. 595,141. 2 Claims. (Cl. 170—46.)



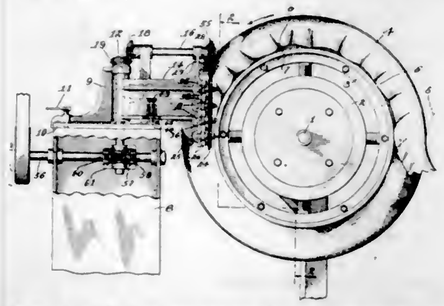
1. In combination, a vertical column, bracket arms extending oppositely from the column adjacent to the upper end thereof, a rudder supported upon one of said bracket arms for rotation about a vertical axis, the other of said bracket arms being adapted to rotatably support a windwheel, a pair of spaced pulleys supported at the upper end of the column for rotation about horizontal axes, a third pulley rotatably supported on the column at a lower level, a flexible chain or cable secured at its one end to the rudder at one side of the latter, and trained about said pulleys, being secured at its other end to said rudder at a point opposite that at which the first named end is attached, and guiding and retaining members associated with said pulleys, there being a guiding and retaining member for each pulley, whereby the chain or cable is prevented from disengaging said pulley.

1,476,324. DENTAL CASTING FLASK HEATER AND INSTRUMENT STERILIZER. JOHN E. BURNS, Flushing, N. Y. Filed Oct. 26, 1920. Serial No. 419,631. 8 Claims. (Cl. 219—43.)



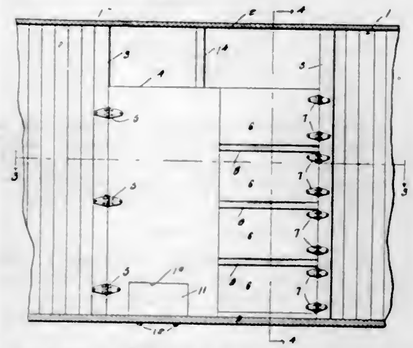
1. In an apparatus of the character described, a heating element, a supporting member carried thereby and provided with internal and external shoulders, a pan for engagement with the internal shoulder, and a cover for engagement with the external shoulder.

1,476,325. METHOD OF AND APPARATUS FOR MAKING TIRE CASINGS. FRANCIS B. CONVERSE, Norwalk, Conn., assignor to The Norwalk Tire and Rubber Company, Norwalk, Conn., a Corporation of Connecticut. Filed June 29, 1920. Serial No. 392,650. 31 Claims. (Cl. 154—10.)



3. In a stretching mechanism for tire machines, the combination of a rotatable core and means for stitching the fabric on said core, said means engaging the side of the casing and traveling with an uninterrupted motion with the core peripherally while traversing a radial path relatively to the core.

1,476,326. BOX-CAR DOOR. GEORGE M. DE VILBISS, Stella, Nebr. Filed June 24, 1919. Serial No. 306,347. 1 Claim. (Cl. 20—28.)

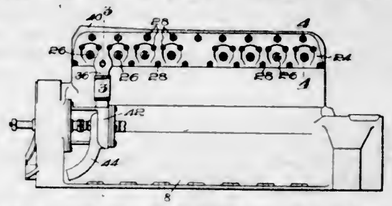


A car having a first and a second inwardly swinging door, relatively narrow flange means on the exterior of the first door overlapping the exterior of the second door and being disengageable from the second door through limited inward swinging movement of both doors, and exterior fastening means disposed longitudinally on the second door to engage the car adjacent the top and the bottom of the doors to prevent movement of both doors relative to the car, said fastening means also being disposed relatively close to the free edge of the second door to relieve said flange means of undue outward pressure, one of said doors having a plurality of independently operable sections, and each of the sections having an interiorly disposed flange depending therefrom and crossing its junction with and engaging the adjacent section to further relieve said first mentioned flanges of undue outward pressure.

1,476,327. INTERNAL-COMBUSTION ENGINE. FREDERICK S. DUESENBERG, Elizabeth, N. J. Filed Nov. 18, 1920. Serial No. 424,998. 6 Claims. (Cl. 123—173.)

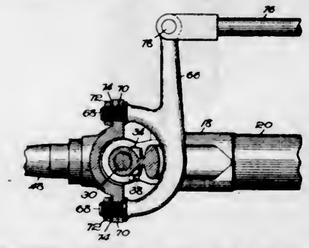
3. In an internal combustion engine, the combination of a plurality of cylinders and pistons working therein, valve means to control the admission of the fuel charge to and

the exhaust of the products of combustion from said cylinder, a plurality of spark plugs to ignite the fuel charges in said cylinders, respectively, and cooling means



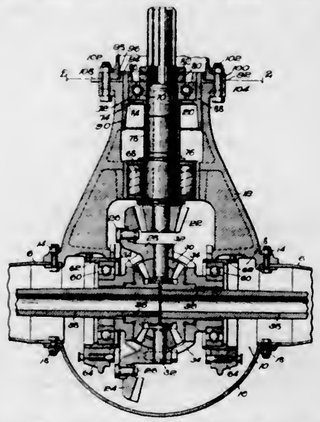
having provision to direct a cooling medium first about the spark plugs, successively to the exclusion of said valve means and subsequently about said valve means.

1,476,328. AXLE CONSTRUCTION. FREDERICK S. DUESENBERG, Elizabeth, N. J. Filed Dec. 4, 1920. Serial No. 428,365. 4 Claims. (Cl. 280—96.1.)



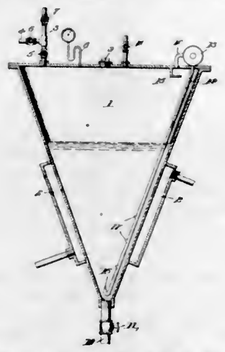
1. In a vehicle, the combination of an axle, two steering knuckles pivoted thereto, two steering members each having an arm extending transversely of said axle and one member having an arm extending lengthwise of said axle, each member having two branches respectively secured to the associated knuckle at the front and rear respectively of the pivotal axis of such knuckle, a link extending lengthwise of said axle and connecting said transversely extending arms to each other, and a link extending transversely of said axle and attached to said arm which extends lengthwise of said axle.

1,476,329. DRIVING AXLE FOR MOTOR VEHICLES. FREDERICK S. DUESENBERG, Elizabeth, N. J. Filed Dec. 4, 1920. Serial No. 428,366. 4 Claims. (Cl. 74—99.)



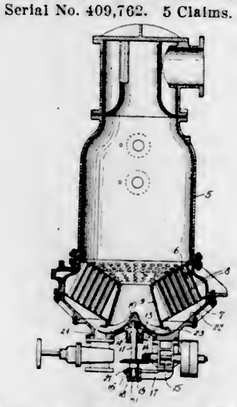
1. In an axle construction, the combination of a housing, shafts mounted to turn therein, driving mechanism therefor including a bevel gear, a torque tube secured to said housing, a driving shaft housed in said torque tube and carrying a bevel pinion meshing with said gear, and means for adjusting said pinion axially, said means including a part exposed at the exterior of said housing where it is accessible for adjusting said pinion.

1,476,330. PROCESS OF ADDING HYDROGEN. CARLETON ELLIS, Montclair, N. J. Filed July 29, 1919. Serial No. 314,121. 6 Claims. (Cl. 87—12.)



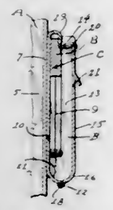
1. The process of hydrogenating oils which comprises adding to a fatty oil having an iodine number between 75 and 130, a small quantity of finely divided nickel-containing catalyst and also introducing a small quantity of powdered inert extending material, such nickel containing catalyst being of a degree of fineness capable of being readily held in suspension in the oil by bubbling hydrogen-containing gas therethrough and being free from rigid physical attachment to said inert extending material, maintaining the oil at a temperature of between approximately 150 and 200° C., while passing a current of hydrogen through the oil.

1,476,331. VACUUM PAN. GODFREY ENGEL, Sr., Brooklyn, N. Y., assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y., a Corporation of New York. Filed Sept. 13, 1920. Serial No. 409,762. 5 Claims. (Cl. 159—25.)



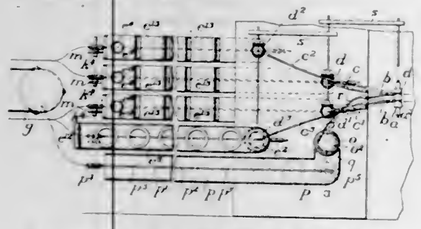
2. In apparatus of the described disclosed, a casing provided with an outlet in the bottom thereof, a calandria in the casing having an upright circulating passage therethrough with inclined tubes grouped about the same and a propeller in the lower portion of the casing in line with the circulating passage for positively circulating fluid through the passage and inclined tubes and having blades directly over and traversing the outlet in the bottom of the casing to assist in the discharge of the contents of the casing.

1,476,332. COMBINED TOBACCO CONTAINER AND MATCH RECEPTACLE. HERBERT D. FLEMING and LEO F. MATTHEWS, New Kensington, and EDGAR C. FLEMING, Renfrew, Pa. Filed Mar. 13, 1922. Serial No. 543,499. 5 Claims. (Cl. 206—38.)



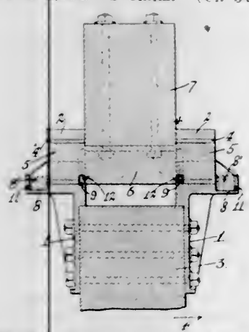
1. The combination with a tobacco box, of a match receptacle secured to one wall thereof embodying a rear supporting wall, side walls, a resilient top wall, and a hinged front wall, the resilient top wall being adapted to hold the front wall against opening movement and to hold a strip of matches in position against accidental removal.

1,476,333. MANUFACTURE OF WIRE RODS. JEROME R. GEORGE, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 24, 1920. Serial No. 360,634. 14 Claims. (Cl. 29—81.)



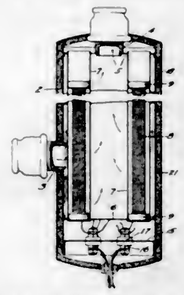
1. In apparatus of the class described, a plurality of coil conveyors extending parallel with the line of delivery of the wire, and an independent coiling device associated with each conveyor, said coiling devices being at different distances longitudinally from the common supply point of said wire.

1,476,334. WALKING-BEAM BEARING. ALONZO LEWIS HALLIDAY, Oil Center, Calif. Filed July 3, 1922. Serial No. 572,364. 1 Claim. (Cl. 64—24.)



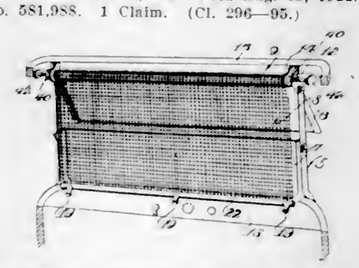
A walking-beam bearing comprising a pair of side irons with journal bearings in their heads, and adapted to be fitted to a supporting post, each of said irons having on its outer side an oil reservoir to supply said bearings, and having also on its inner side an uprising flange lying in the lower portion of the bearing and having a length less than the circumference of said bearing; and a saddle member adapted to be fitted to a walking beam, said member having journals mounted for oscillation in the bearings of the side irons, the journals having grooves fitting over the flanges of the irons, said grooves partially encircling the journals and leaving an upper portion thereof giving room for beam oscillation and adapted by contact with the ends of the flanges to serve as a rest for the beam.

1,476,335. ELECTRIC WATER HEATER. WILLIAM WESLEY HICKS, San Francisco, and ARTHUR J. KERCHER, Berkeley, Calif. Filed July 17, 1922. Serial No. 575,608. 13 Claims. (Cl. 219—38.)



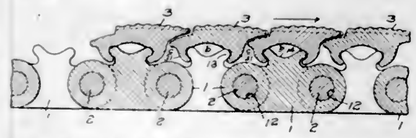
1. An electric water heater comprising a shell adapted to receive the water to be heated, a duplex tube arranged in said shell and a duplex heating unit disposed in said tube.

1,476,336. AUTOMOBILE SCREEN. VERNON DAVIS HITCHINGS, Norfolk, Va. Filed Aug. 15, 1922. Serial No. 581,988. 1 Claim. (Cl. 296—95.)



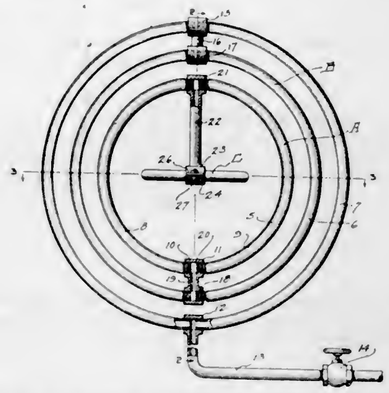
A shield for automobiles comprising a spring roller provided with threaded pintles having manually controlled knobs, brackets rotatably supporting said pintles, a screen carried by said roller and having one end provided with fastening means, and winged nuts threaded on said pintle outwardly of the brackets and adapted to bind against the brackets whereby to securely hold the roller against turning under wind pressure on the screen.

1,476,337. FURNACE GRATE. HARRIS B. HOLT, Dormont, Pa., assignor to Rosedale Foundry & Machine Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 14, 1922. Serial No. 575,059. 2 Claims. (Cl. 110—40.)



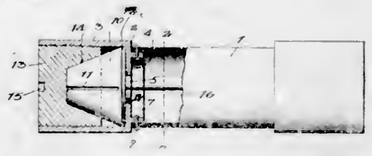
1. In a chain grate structure a chain made up of rows of interpivoted links, the links being provided with lugs which in assembly combine and constitute grate bar supports extending transversely across the structure, and a plurality of grate bars borne by said supports in transverse rows, the bars of each row standing in colsed rank side by side.

1,476,338. BURNER. OWEN M. JARBOE, Carrollton, Mo. Filed Sept. 2, 1922. Serial No. 585,972. 5 Claims. (Cl. 158—54.)



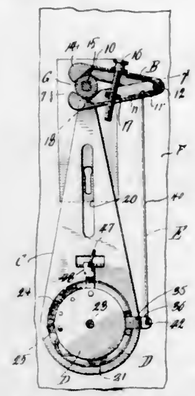
5. In an oil burner, a vaporizing element comprising a plurality of spaced concentrically disposed annular vaporizing pipes, the pipes successively decreasing in diameter toward the axial center of the vaporizing element, the said pipes being arranged one in front of the other and all disposed at a vertical plane, a horizontally disposed burner arranged at the axial center of the vaporizing element, a feed pipe, a valve in said feed pipe, means connecting the feed pipe with the outermost annular pipe of the vaporizing element, means connecting the outermost pipe at a point diametrically opposite the point of connection of the feed pipe to the intermediate annular pipe vaporizing element, means connecting the intermediate pipe at a point diametrically opposite its point of connection with the outermost pipe to the innermost pipe of the vaporizing element, and means connecting the innermost pipe at a point diametrically opposite the point of connection of the innermost pipe to the intermediate pipe to the said burner.

1,476,339. FUSE CARTRIDGE. JOHN M. JOHNSON, Sioux Valley Township, Union County, S. Dak. Filed Nov. 6, 1922. Serial No. 599,310. 1 Claim. (Cl. 200—132.)



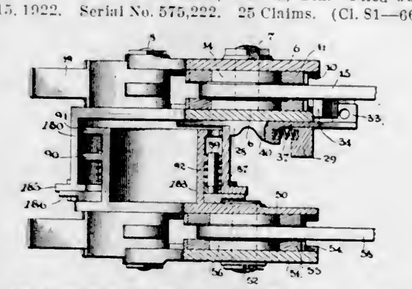
A fuse cartridge comprising a tubular body of insulating material, a pair of end members therefor, each end member comprising a tubular body portion having one end thereof closed, said closed end provided with a centrally located aperture communicating with diametrically opposed notches, a flange extending from the closed end of the end members so as to be received within the ends of the tubular body, means for fastening the flange in engagement with the tubular body, a pair of cone-shaped members one situated in each of the end members with its base adjacent the closed end thereof, said cone-shaped members constructed with a slit having diametrically opposed longitudinally extending grooves, lugs extending from the bases of said cone-shaped members for engagement with the notches, and means for holding the cone-shaped members firmly within the end members.

1,476,340. BURGLAR ALARM. WILLIAM T. KJELLAND, Snohomish, Wash. Filed June 4, 1923. Serial No. 643,428. 5 Claims. (Cl. 116—79.)



5. A burglar alarm comprising a fixed member, a clamping member for engaging a door knob to be turned thereby, an alarm bell carried by the lower end of the fixed member and including a vibrating clapper, an upstanding ear formed on the vibrating clapper, tripping means for the bell including a connecting member connected with the attaching member, a trip plate operated by said trip member including an ear for engaging the ear on the clapper, a resilient rod engaging said trip plate for normally holding the ear formed thereon in the path of the clapper, a pivoted lever carrying said trip member, and means for holding the lever in different positions on the fixed member.

1,476,341. WRENCH. GEORGE FRANKLIN LE BUS and FRANKLIN LEYBURN LE BUS, Electra, Tex. Filed July 15, 1922. Serial No. 575,222. 25 Claims. (Cl. S1—66.)

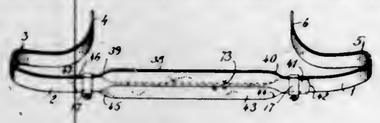


1. An apparatus of the class described comprising upper and lower wrenches and means whereby the wrenches are slidably and rotatably connected for movement about and along a common axis.

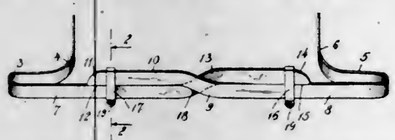
1,476,342. VEHICLE BUFFER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Aug. 30, 1921. Serial No. 496,828. Renewed Oct. 29, 1923. 18 Claims. (Cl. 293—55.)

2. The automobile buffer comprising two relatively thin, wide spring steel strips, each comprising an attaching member, an end loop, and lateral impact receiving

connecting portions, each of said strips between said connecting portions being bent to form vertically displaced contact portions which throughout are in edge overlapping strengthening cooperation with the cooperating contact portions of the other strip to form an increased width central contact face without front openings and connecting devices engaging said connecting portions.

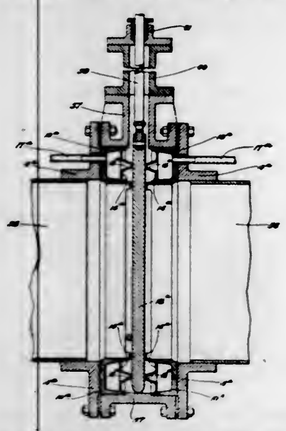


1,476,343. BUFFER FOR MOTOR VEHICLES. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Oct. 7, 1922. Serial No. 592,939. 14 Claims. (Cl. 293—55.)



1. The automobile buffer front formed of a plurality of resilient steel strips and comprising end loops and an intermediate crossover portion, said strips being bent inward and downward on opposite sides of said crossover portion to bring the lateral vertically displaced horizontal contact portions of said strips into substantial vertical edgewise alignment and cooperating clamping means securely holding said strips in adjusted position.

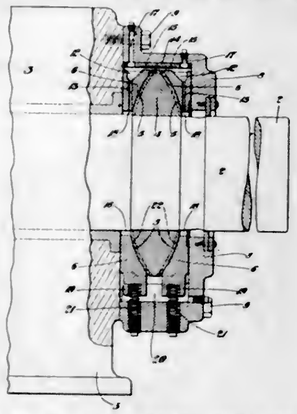
1,476,344. VALVE. FRANK R. MCGEE and ARTHUR R. SCHULZE, Steubenville, Ohio. Filed May 12, 1921. Serial No. 468,691. 11 Claims. (Cl. 251—51.)



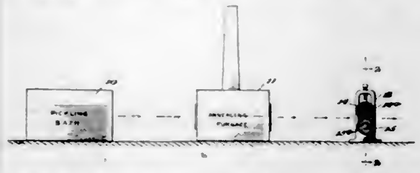
1. A sliding valve such as a gate and goggle valve comprising a valve plate, expansible metallic seat members adapted to seal against said plate, and means for forcing fluid under pressure into said seat to expand the same.

1,476,345. THRUST BEARING. FRANK R. MCGEE, Steubenville, Ohio. Filed Sept. 28, 1922. Serial No. 591,108. 9 Claims. (Cl. 64—25.)

1. A thrust bearing comprising the combination with a shaft, of a thrust collar rigid on said shaft, said collar having a convex side face, a washer mounted on said shaft and having a concave face fitted over the convex side face of said collar, said washer being locked against rotation, oil throwing lugs on said collar, and means for circulating oil between said collar and said washer.

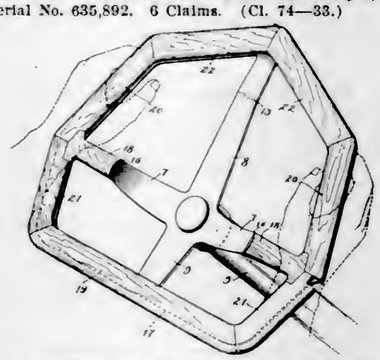


1,476,346. METHOD OF RESTORING OR REJUVENATING BALE-TIE BANDS. RALPH MAROOLIUS, Richmond, Va. Filed June 3, 1922. Serial No. 565,772. 4 Claims. (Cl. 148—12.)



1. The herein-described process of converting the pieces of used tie-bands into standard tie-bands which consists in subjecting the pieces to a pickling bath, subsequently annealing the pieces and in cold rolling the pieces in such manner as to elongate them while maintaining their width.

1,476,347. STEERING WHEEL FOR AUTOMOBILES. TRUMAN J. MARTIN, Bethlehem, Pa. Filed May 1, 1923. Serial No. 635,892. 6 Claims. (Cl. 74—33.)



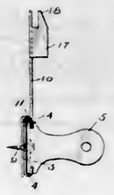
1. A steering wheel including a rim, a diametric resting arm, and a resting bar in parallel relation with the resting arm, the resting bar forming a part of the wheel rim.

1,476,348. SHOE LACING. THOMAS W. MILLER, Ashland, Ohio, assignor to The Faultless Rubber Company, Ashland, Ohio, a Corporation of Ohio. Filed Oct. 17, 1922. Serial No. 595,160. 5 Claims. (Cl. 24—43.)



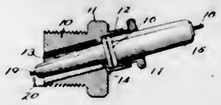
1. A shoe lacing, embodying a flexible, inelastic core, and a covering of rubber extending the entire length of said core and tapered at its ends.

1,476,349. COMBINED ADJUSTABLE SHADE AND CURTAIN HANGER. MARQUIS L. MOORE, Indianapolis, Ind., assignor of one-half to James O. Franklin, Lawrenceburg, Ky. Filed Sept. 7, 1922. Serial No. 586,576. 2 Claims. (Cl. 156—24.)



1. In a combined curtain shade and hanger for window frames and the like, a body portion, a shade bracket adjustably secured to the body portion, a curtain support having one end extending behind the body portion and positioned between the window frame and the body portion said support having a shoulder adapted to extend over and rest upon the upper edge of the said body portion, means for engaging said body portion to support the same from the window frame said means also engaging said curtain support and clamping it between the window frame and the body portion, substantially as set forth.

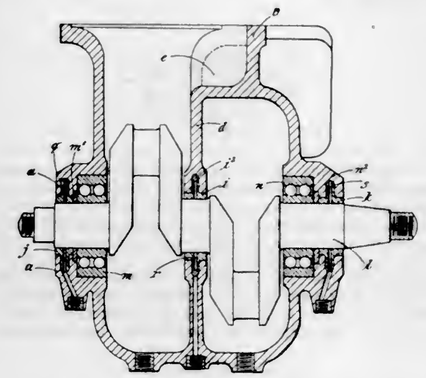
1,476,350. SPARK PLUG. LEO F. REYNOLDS and JAMES SAMUEL STEWART, Evanston, Wyo. Filed Jan. 26, 1921. Serial No. 440,181. 1 Claim. (Cl. 123—169.)



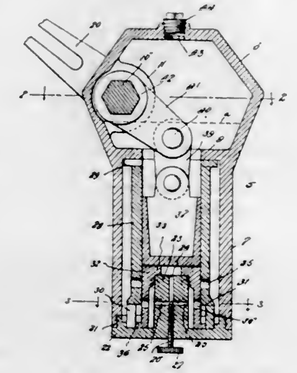
A spark plug for valve in the head engines comprising a shell adapted to be secured in an approximately horizontal position to one side of an engine cylinder and having a straight bore extending diagonally thereof, and an electrode extending longitudinally through said shell, the bore of said shell being inclined downwardly toward the forward end of the plug whereby the oil received in the shell is promptly drained.

1,476,351. TWIN-CYLINDER TWO-STROKE INTERNAL-COMBUSTION ENGINE. DAVID STANGER, Stroud, England. Filed July 12, 1920. Serial No. 395,758. 1 Claim. (Cl. 123—55.)

In an internal combustion engine of the class described, a crank shaft, a crank case consisting of two parts adapted to be joined at the line of the crank shaft and forming two compression compartments, a common vertical partition separating the compartments and pierced for the passage of the crank shaft, cylinder platforms carried by the upper part, and said upper part having a gas port for each cylinder, said port being led over the partition and across the middle line of the casing and up behind the other cylinder.

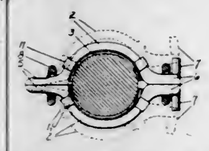


1,476,352. SHOCK ABSORBER. ERNEST W. ACKERMAN, Monroe, Mich. Filed Apr. 4, 1923. Serial No. 629,762. 1 Claim. (Cl. 188—88.)



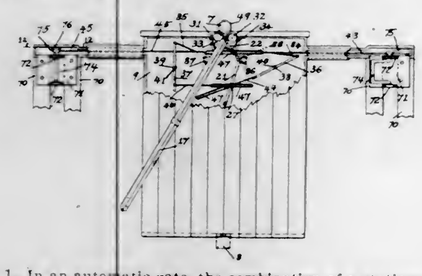
In a shock absorber of the class described, a casing embodying a head and cylinder portion adapted to receive a supply of oil, said cylinder being open at its lower end, and provided with a removable cap, a head formed centrally upon said cap and extending within said cylinder, the upper end of said head being provided with an oil passage terminating at its lower end with laterally extending oil passages that communicate with the interior of said cylinder, a cylinder within said first mentioned cylinder and spaced therefrom, the lower end of the same being provided with oil passages, a sleeve valve also formed with oil passages, and positioned between said cylinder and said head, a piston movable within said cylinder, means for actuating said piston, said sleeve valve adapted to be raised when said piston is raised for alining the oil passages of said sleeve valve and cylinder for permitting the free upward movement of said piston, said sleeve valve adapted to be forced downwardly upon the reverse movement of said piston, for forcing the oil through the passages within said head, and means for adjusting the supply of oil through the passages in the head.

1,476,353. ANTISLIP DEVICE FOR MOTOR-VEHICLE WHEELS. RALPH M. BABBITT, Kalamazoo, Mich. Filed Dec. 8, 1921. Serial No. 520,802. 2 Claims. (Cl. 152—14.)



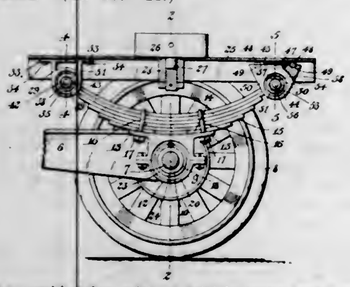
1. An anti-slip device comprising a pair of opposed segmental yoke members adapted to embrace a spoke and rest against the inner side of a felly and each having a hook at each end, the hooks of the members lying side by side in coacting pairs, and a tread chain having a link at one end engaging one pair of hooks and constituting a coupling for the yoke members, the other pair of hooks being provided with lateral projections at their tips constituting a cross head for detachably retaining a link at the opposite end of the tread chain in engagement therewith.

1,476,354. AUTOMATIC GATE. EDWARD A. BIGLER, Auburn, Ill. Filed June 9, 1922. Serial No. 567,031. 4 Claims. (Cl. 39—29.)



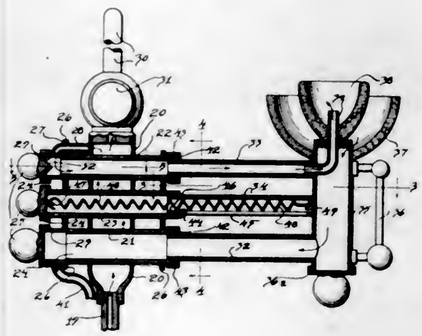
1. In an automatic gate, the combination of a stationary post; a stationary block in line with the post; a first truck-member pivoted on said block; a second truck-member pivotally connected with said first truck-member and having a pivot-bearing, also having lateral branches each provided with a roller; arched guards engaged by said respective rollers; an adjusting bar provided with an eye; an axle having a pivot in the eye of the adjusting bar and a pivot in said bearing on said second truck-member; and means for "breaking" said truck-members to the right to effect swinging of the gate frame to the left and reversely "breaking" the truck-members to the left to effect swinging of the gate frame to the right.

1,476,355. MOTOR VEHICLE. ANDREW J. BORST, Jr., Buffalo, N. Y. Filed June 19, 1919. Serial No. 305,288. 3 Claims. (Cl. 267—21.)



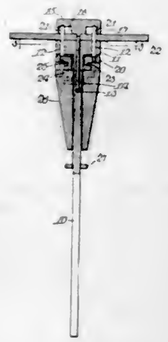
1. The combination with a vehicle body and a vehicle spring having a bolt hole at one end, of a hanger in contact with said vehicle body having two spaced depending portions, alined openings in said hanger, each opening having an annular depression providing opposite retainer flanges, a rubber cushion within each of said depressions with said retainer flanges bearing against opposite sides of said cushion, a metallic bushing in said cushion, and a bolt passing through said metallic bushings and the bolt hole of said spring.

1,476,356. ADJUSTABLE SANITARY FOUNTAIN-CUP ATTACHMENT FOR DENTAL CUSPIDORS. IRA A. BURNETT, Chicago, Ill. Filed June 6, 1921. Serial No. 475,232. 5 Claims. (Cl. 299—13.)



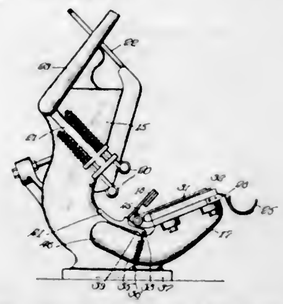
1. In an attachment of the class described, the combination with a water-supply-tube adapted for communication with a supply of water, of another tube mounted thereon for horizontal adjustment with respect thereto, a cup mounted on said adjustable tube, horizontally extensible means for the passage of water connecting the supply tube to said cup, and means for automatically closing said water passage on the retraction of the movable tube.

1,476,357. DENTAL MANDREL. IRA A. BURNETT, Chicago, Ill. Filed Mar. 30, 1923. Serial No. 628,750. 3 Claims. (Cl. 32—13.)



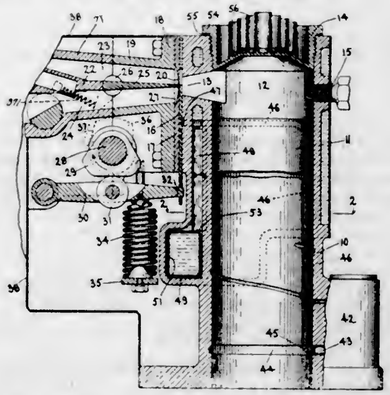
3. A clamping member having on its surface adjacent the object to be clamped an annular enlargement provided with a screw extended centrally therefrom and having at its edge a flange spaced from said enlargement and terminating substantially in a plane with the end of the enlargement adjacent the object to be clamped, said member also having the base of the space between its enlargement and flanges recessed and adapted for engagement with a projection inserted into said spaces.

1,476,358. MUSIC ROLL AND APPARATUS FOR MAKING SAME. JOHN A. FISHER, Chicago, Ill., assignor to Imperial Player Roll Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 19, 1920. Serial No. 374,824. 15 Claims. (Cl. 216—2.)



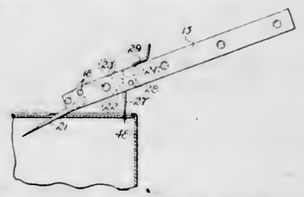
1. A machine comprising means for impressing a character on a note-sheet for an automatic musical instrument and means for securing an attaching tab to the note-sheet.

1,476,359. SLIDE-VALVE INTERNAL-COMBUSTION ENGINE. EUGENE A. FORD, West Newton, Mass., assignor to R. E. D. Engine Company, Inc., New York, N. Y., a Corporation of New York. Filed May 10, 1921. Serial No. 468,339. 4 Claims. (Cl. 123—177.)



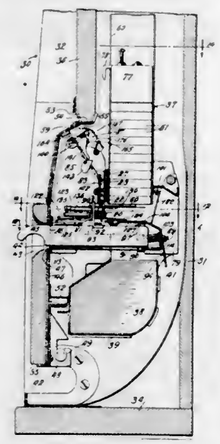
1. In an internal combustion engine having a cylinder and a jacket for cooling liquid, a slide valve arranged to cooperate with said cylinder and means for directing the cooling fluid entering the jacket into thermal contact first with the wall against which said valve bears.

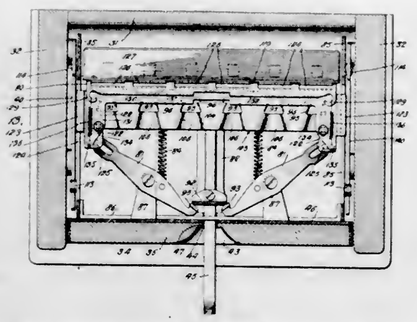
1,476,360. CAN OPENER. HERMAN GARRISON, Chicago, Ill. Filed Oct. 5, 1921. Serial No. 505,615. 5 Claims. (Cl. 30—3.)



1. In a can opener of the class in which a circular cut is effected by mounting the cutting knife on a pointed lever and rotating the lever about an aperture made in the center of the can by the point of the lever; a modification whereby the knife is mounted on a pivot so as to permit a limited amount of rotation in the plane of the lever; the weight of the pivoted element being so disposed that when the lever is held in an erect position to pierce the center of the can the knife will assume a position approximately perpendicular to the lever, and will remain in that relative position while the lever is being rotated in the plane of the cylinder axis of the can to a position at which the point of the knife enters the can; the pointed end of the lever being straight for a sufficient distance to enable the operator, by partial withdrawal of the lever from the aperture, to tilt the knife at a small angle to the surface of the can, which is its operative position; the pivotal movement of the knife being limited to the positions above indicated by contact with elements of the lever.

1,476,361. COIN-CONTROLLED VENDING MACHINE. HARVEY GILES, Brooklyn, N. Y., assignor to Artemas Ward, New York, N. Y. Filed Nov. 17, 1922. Serial No. 601,482. 15 Claims. (Cl. 194—80.)

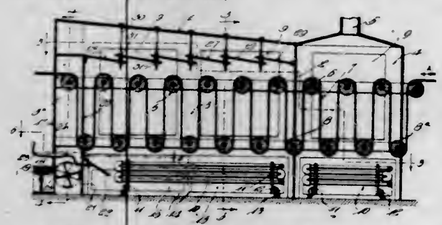




1. In a coin-controlling vending machine having coin-entrance slots, a vertical tray for holding columns of pieces of the merchandise to be sold and an exposed operating handle, in combination, a horizontally slidable carriage operable from said handle having vertical coin slots therein apportioned to said columns, a transverse bar mounted on said carriage and having at its rear edge recesses aligning with said vertical slots and projections crossing the same to serve as supports for coins standing on edge in said slots and recesses and facing the lower piece of merchandise in said columns and to be moved against and dislodge said pieces when the carriage is operated from said handle, means for arresting said bar at a predetermined

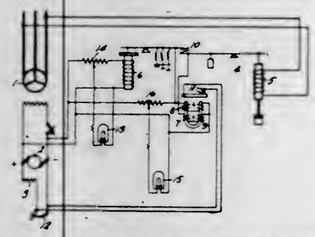
point during the operative movement of said carriage and before said movement has ceased whereby said vertical slots are carried beyond said projections and the coins then being unsupported fall from said slots, and springs connecting said bar and carriage and which become stretched when the carriage travels in advance of the bar and act to restore the normal relation of the bar and carriage on the reverse movement of the carriage.

1,476,362. APPARATUS FOR DRYING AND CARBONIZING TEXTILE FABRICS. PETER GLENNIE, North Andover, Mass. Filed Oct. 10, 1921. Serial No. 506,667. 11 Claims. (Cl. 34—48.)



9. A machine for treating fabrics comprising a housing embodying main and auxiliary compartments or chambers through which the fabric is designed to travel, a valved air discharge leading from the auxiliary compartment, an opening between the two compartments for permitting a continuous circulation of the heated air therethrough, an adjustable valve cooperative with said opening, a hot-air conduit leading from the main chamber to the auxiliary chamber, and suction devices for drawing the air from said last named chamber into the auxiliary chamber, whereby to permit it to be forced through said discharge or the aforesaid opening affording communication between the two chambers.

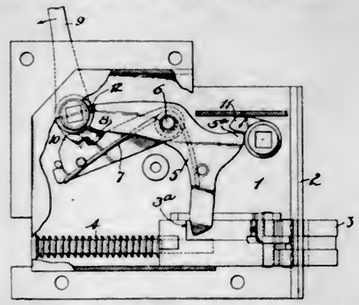
1,476,363. ELECTROMAGNETICALLY-ACTUATED APPARATUS. MAX HERKLOTZ, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed Mar. 19, 1923. Serial No. 626,197. 5 Claims. (Cl. 171—229.)



1. In a regulating system for a dynamo electric machine, an exciter connected to the field winding of said machine, an electromagnet for controlling the excitation of said exciter having a winding so connected that it is energized in accordance with the voltage of said exciter, and means connected so as to be affected by variations in the voltage of the exciter for causing the energization of said electromagnet to vary at a different rate than the exciter voltage varies.

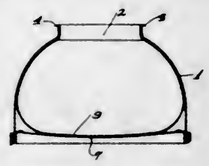
1,476,364. DOOR LOCK. NORMAN B. HURD, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed Mar. 18, 1922. Serial No. 544,847. 5 Claims. (Cl. 292—192.)

1. In a lock, a case, a spring projected latch bolt carried thereby, means at the indoor side of said case for manually retracting said latch and means at the outdoor side of said case for manually retracting said latch and cooperating means including a pivoted latch retracting lever between said parts whereby an abnormal move-



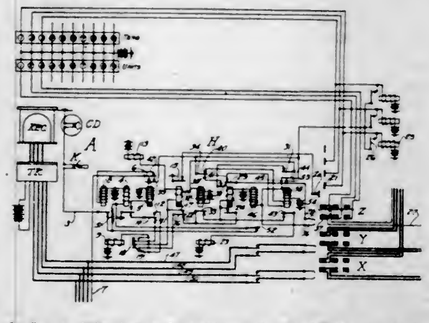
ment of the first mentioned retracting means will lock the parts against latch retraction from the outdoor side of the lock, said retracting means engaging said lever at opposite sides of the pivotal center.

1,476,365. OIL CAN. GUSTAVE LIDSEEN, Chicago, Ill. Filed Oct. 21, 1921. Serial No. 509,285. 1 Claim. (Cl. 221—34.)



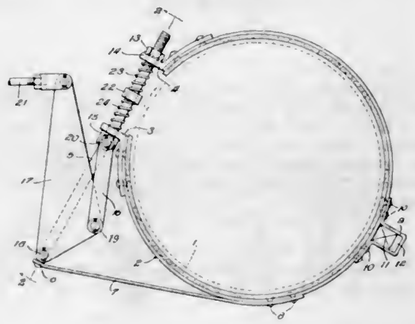
An oil can comprising a body portion having a relatively large opening with an inwardly curving wall, an annulus within the opening having a flange at its upper portion adapted to project outwardly over the edge of said wall and a lower outwardly curving portion, adapted to engage the inner face of said wall, a spout removably secured to said flange, a bottom for said can of relatively non-resilient material, and a flat spring engaging said bottom, the ends of the spring bent up to engage the lower edge of the annulus on the inside of the can.

1,476,366. CALL-INDICATING SYSTEM. CLARENCE E. LOMAX, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 19, 1920. Serial No. 374,887. 12 Claims. (Cl. 178—2.)



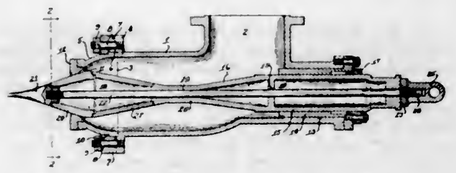
1. In a telautograph system, a plurality of stations each having means for sending and receiving written messages, a calling device for each station, an automatic switch controlled by the calling device of a calling station to extend a connection to a called station and indicating means controlled by the operation of said switch for indicating to the calling station to what station he is in connection with.

1,476,367. FRICTION BRAKE MECHANISM. CHAUNCEY L. C. MAGEE, Chicago, Ill. Filed Oct. 2, 1920. Serial No. 414,285. 11 Claims. (Cl. 188—77.)



7. A friction brake comprising a brake band, mechanism for contracting the band, a member secured to the band to support said mechanism, and means for operating said mechanism, said member sustaining an endwise compression strain when said mechanism is operated to contract the band.

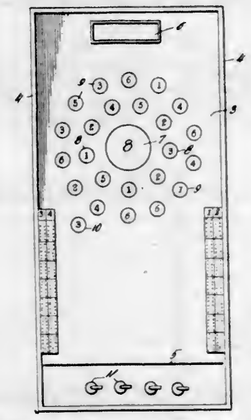
1,476,368. HYDRAULIC NOZZLE. WILLIAM L. PARKER, Palo Alto, and ELY C. HUTCHINSON, Oakland, Calif., assignors to Pelton Water Wheel Co., San Francisco, Calif., a Corporation of California. Filed Nov. 1, 1922. Serial No. 598,310. 7 Claims. (Cl. 253—136.)



1. A needle valve for hydraulic nozzles, including a body having an enlarged head and terminating in a needle point, said head in rear of said needle point being divided transversely into a plurality of separatable sections, and means for detachably securing said sections together with their edges in engaging relation.

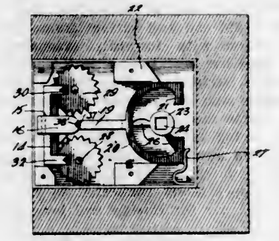
1,476,369. CURLING GAME. JAMES A. ROSS, Halifax, Nova Scotia, Canada. Filed July 16, 1920. Serial No. 396,638. 1 Claim. (Cl. 46—61.)

A game board including in combination a game field which near one end is provided with a starting line, and near the opposite end with a centrally disposed target circle of the highest value, a plurality of smaller circles concentrically arranged about said central circle of smaller values, a second set of circles of a size equal to said first mentioned circles concentrically disposed about said central circle but on a larger radius and representing values lower than said central circle, a single circle located near the starting end of said field, a set of cribbage score openings located adjacent opposite edges, there being one set for each player, said board being surrounded by an upstanding flange, and a



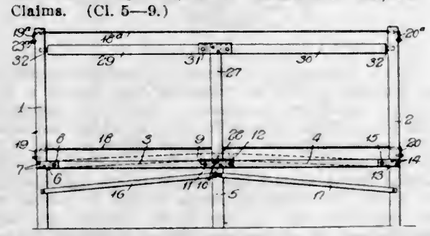
set of game pieces each in the form of a circular member of a size equal to said smaller circles, all as and for the purpose set forth.

1,476,370. COMBINATION LOCK AND KEY. EMERSON E. ROUSH, Goodland, Kans. Filed Aug. 30, 1922. Serial No. 585,165. 3 Claims. (Cl. 70—53.)



1. In a combination lock, a casing, a pair of slotted disks in said casing, shafts carrying said disks and projecting through said casing, a retractile bolt, a locking member having lugs movable into and out of the slots in said disks upon the latter being rotated to proper positions, means to retract said bolt, means for detachably connecting the lock member with the bolt, pointers on said shafts, a key member movable into and out of position on said shafts, a stop lug on said key member lying in the path of the pointers to limit rotation of the shafts and thereby to position the disks in unlocking position.

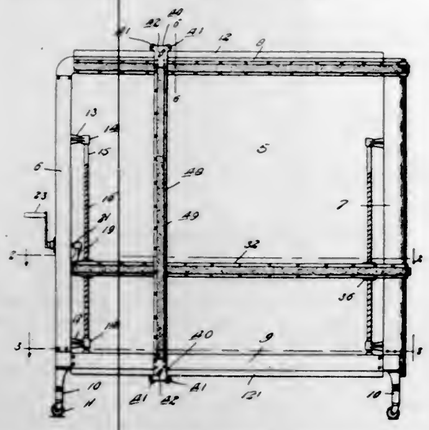
1,476,371. BED. SAMUEL A. RUSSELL, River Forest, Ill. Filed Sept. 24, 1919. Serial No. 325,984. 4 Claims. (Cl. 5—9.)



3. A collapsible bed comprising end posts, intermediate posts, extensions connected with said intermediate posts,

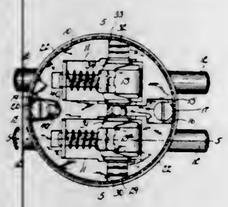
connecting pieces between said end posts and intermediate posts and pivotally connected with said extensions, and a support for the occupant carried by said posts.

1,476,372. BLANKET STRETCHER. ABRAHAM SCHUMACHER, Washington, D. C. Filed Mar. 21, 1923. Serial No. 626,679. 4 Claims. (Cl. 45—24.)



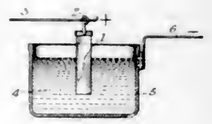
1. A curtain stretcher including a rectangular portable frame composed of rigidly connected top, bottom and end members, said end and bottom frame members being of channel form with inwardly extending flanges, a horizontal cross bar movable vertically between said end frame members, strips extending around one of the end frame members and respectively secured on both sides of the top frame member and the horizontal cross bar, said strips having fabric engaging means from end to end thereof, and means including intergeared shafts carried by and mounted within the end and bottom frame members and operatively connected to the ends of the horizontal cross bar for raising and lowering the latter.

1,476,373. TWO-CIRCUIT OR THREE-HEAT PUSH-THROUGH SWITCH. IRA R. SELTZER, Waterbury, Conn., assignor to The Gordon Electric Mfg. Co., Waterville, Conn., a Corporation. Filed Mar. 13, 1922. Serial No. 543,152. 2 Claims. (Cl. 200—72.)



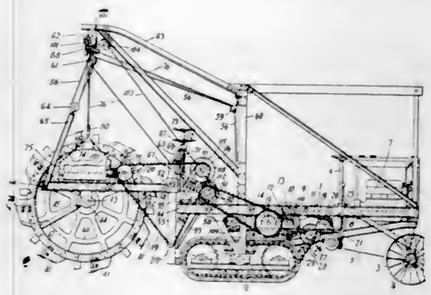
1. In a two-circuit or three-heat push-button switch, the combination with a cylindrical block having a plurality of terminal-plate recesses formed in its respective ends, of a cylindrical shell for the said block, removable caps for the respective ends of the said shell, two independent unitary push-button switches located in independent switch-recesses also formed in the upper end of the block, and binding-terminals located in recesses in the respective ends of the block, whereby the said switches and all of the said binding terminals are exposed by the removal of the said caps without disturbing the shell or the said switches.

1,476,374. ELECTRODEPOSITION OF RUBBER COATINGS. SAMUEL E. SHEPPARD and LEON W. EBERLIN, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 3, 1922. Serial No. 540,800. 35 Claims. (Cl. 204—1.)



1. The process of depositing rubber on an electroconducting surface of an object, which comprises the steps of bringing said surface into contact with an electroconducting rubber emulsion and passing a depositing electric current through said surface and emulsion, said emulsion being substantially free from material in a fermentable state.

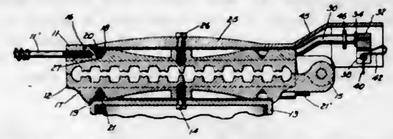
1,476,375. MATERIAL-HANDLING MACHINE. CHARLES H. SHOOK, Dayton, Ohio. Filed Mar. 13, 1920. Serial No. 365,447. 38 Claims. (Cl. 37—102.)



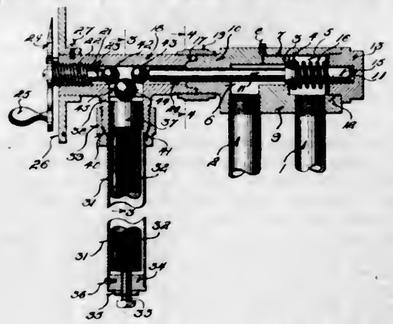
32. In a mechanism of the character described, the combination with a supporting structure and means for advancing the same, of a track mounted on said supporting structure and extending transversely thereto, a carriage mounted on said track, a frame connected with said carriage, a bucket wheel rotatably mounted on said frame, a conveyor having one end mounted on said frame and arranged to receive material from said bucket wheel, a second track supported by said supporting structure and arranged above said bucket wheel, a carrier mounted on said second track, two guides carried with said carrier, a cable connected with said frame and extending about one of said guides, a second carrier mounted on said second track, a guide carried by said second carrier, a cable connected with the outer end of said conveyor and extending about the guide on said second carrier and about the other guide on the first mentioned carrier, a drum mounted on said supporting structure with which both of said cables are connected, other cables connected with said carriers and said carriage, and drums mounted on said supporting structure and connected with said last mentioned cables to move said carriage and said carriers along their respective tracks.

1,476,376. ELECTRIC HEATER. JACOB L. SHROYER, Chicago, Ill., assignor to Edison Electric Appliance Company, Incorporated, a Corporation of New York. Filed Feb. 28, 1922. Serial No. 540,046. 12 Claims. (Cl. 219—19.)

9. An electric heater comprising a heated body provided with a tapered groove, a sheath wire heating element in said groove having its terminals brought out adjacent each other, and a clamping member for wedging said heating element in said groove provided with an extension forming a guard for said terminals.

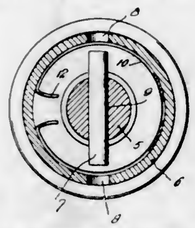


1,476,377. THERMOSTAT FOR OVENS. ANTHONY GEORGE SIEBENLIST, Alois, Wis. Filed Sept. 30, 1922. Serial No. 591,540. 3 Claims. (Cl. 236—102.)



1. A thermostat for controlling the fuel flow to heating devices comprising a valve seat, a valve cooperating therewith and having a stem, a cell having a portion rigidly connected with said seat and a member movable relatively to said seat in accordance with temperature variations, contacting spheres adapted to wedge between said valve stem and said member, and manually operable means for varying the point of contact between said spheres.

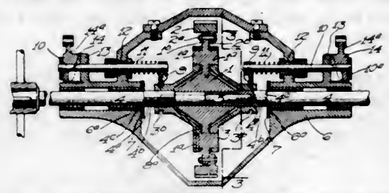
1,476,378. RETAINER FOR STARTING-CRANK PINS. EBERT H. SNOKE, Orrstown, Pa. Filed Sept. 18, 1923. Serial No. 663,361. 1 Claim. (Cl. 287—52.)



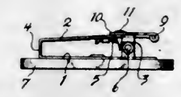
A starting crank pin retainer adapted for application to the interior of a fan belt pulley comprising a normally expanded resilient ring having a transverse opening thru which the starting crank pin may be passed, said ring having inturned free ends in normally spaced relation adapted to be pressed together for contracting the ring, said inturned ends of the ring being cut away at their forward edges for providing clearance for the starting crank.

1,476,379. DIFFERENTIAL MECHANISM. GUSTAF STELLING, Del Mar, Calif. Filed Dec. 1, 1920. Serial No. 427,534. 4 Claims. (Cl. 180—17.)

3. In a differential mechanism, the combination of a pair of shafts positioned end to end in alinement with each other, a gear member revolubly mounted on said shafts provided with projecting portions, a member shiftably mounted on one of said shafts provided with means to prevent its tortional movement on said shaft provided with an opening adapted to engage the projecting portions of said gear member and means for shifting said shiftable member into and out of engagement with said revoluble member.



1,476,380. FASTENER. HENRY C. TOEPPER, Des Plaines, Ill. Filed May 24, 1922. Serial No. 563,230. 2 Claims. (Cl. 24—85.)



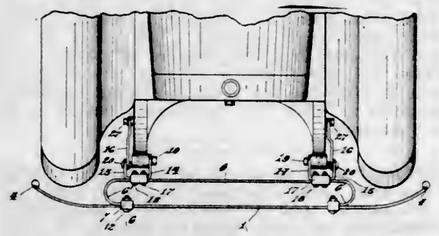
1. A fastener including a pair of clamping members pivotally connected at an intermediate point for clamping and unclamping movement and spring pressed into clamping position, one of said clamping members having an intermediately disposed opening therein, a fastening pin device pivotally secured on the last mentioned clamping member and comprising a portion adapted for movement to and from a position overlying this clamping member on the side opposite the other clamping member and a fastening pin on said portion and arranged to project through said opening when said portion is positioned to overlie the clamping member to which it is secured.

1,476,381. PNEUMATIC TIRE AND METHOD OF MAKING THE SAME. HARLAN L. TRUMBULL, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Feb. 5, 1923. Serial No. 617,170. 19 Claims. (Cl. 18—53.)

16. The method of making a pneumatic tire which comprises vulcanizing the tire while expanding it against a mold by distending within it an expansible rubber core, the core and the tire being separated by a film comprising a chlorine-rubber compound and raw rubber.

19. A pneumatic tire comprising vulcanized rubber and a surface film thereon, said film comprising chlorinated rubber and raw rubber.

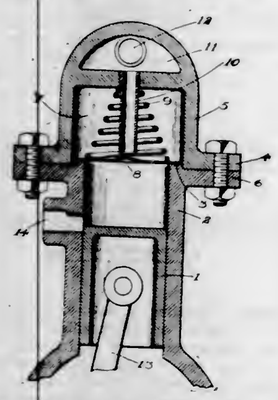
1,476,382. BUMPER FOR AUTOMOBILES. JAMES TURNER and PEARL P. CRABILL, Springfield, Ohio. Filed Jan. 10, 1923. Serial No. 611,712. 4 Claims. (Cl. 293—55.)



1. In a bumper, a pair of spaced-apart impact rails arranged in parallel relation and vertical alignment throughout their length, means for connecting adjacent

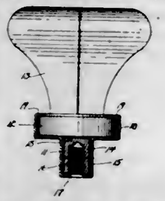
ends of said rails together, an intermediate rail having its ends bent forwardly with the extreme portions thereof arranged parallel with said impact rails at points removed from their ends and connected therewith, and means for supporting said intermediate rail from a motor vehicle.

1,476,383. CHECK VALVE. JOHN TWARDOWSKY, Chicago, Ill., assignor, by mesne assignments, to Universe Corporation, Chicago, Ill., a Corporation of Illinois. Filed Aug. 22, 1921. Serial No. 494,326. 7 Claims. (Cl. 251—118.)



1. A check valve comprising a flat annular seat, a flexible disk having its edge portion overhanging the seat, and spring-pressed means pressing against the disk on the face opposite the seat along a circle coaxial with and smaller in diameter than the bore of the seat whereby to fulcrum the disk upon the inner edge of the seat to cause a convexing of the disk when seated, the disk being formed for retarding the convexing of the portion thereof radially inward of the said fulcrumed circle.

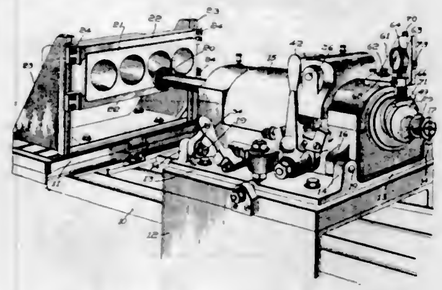
1,476,384. FURNITURE-KNOB MOUNT. ARTHUR W. WELLINGTON, Waterbury, Conn., assignor to Chase Companies Inc., Waterbury, Conn. Filed Dec. 22, 1922. Serial No. 608,445. 3 Claims. (Cl. 16—121.)



2. A metal mount for furniture knobs, comprising a one-piece metal shell having a knob-socket open at its outer end, and a plug-socket smaller in diameter than the said knob-socket and closed at its inner end, except for a central screw-hole; and a plug driven into the said plug-socket from the open end of the said knob-socket and formed with a threaded bore entering it from its inner end and having peripheral, longitudinal serrations by which it is held against rotation in the said plug-socket.

1,476,385. INDICATOR. ALPHONZO WHITE, Winchendon, Mass., assignor to Baxter D. Whitney & Son, Inc., Winchendon, Mass., a Corporation of Massachusetts. Filed June 13, 1922. Serial No. 567,976. 8 Claims. (Cl. 51—43.)

1. In combination with a grinding machine having a grinding wheel shaft mounted to travel bodily in the path of a circle to advance the grinding wheel in an orbital path, and having the shaft supported for adjustment toward and from the axis of said circle; an indicator, a contact member supported to travel in the path of a circle with said shaft, and positioned periodically to engage the indicator and operate it as the shaft is adjusted outwardly from the axis of said circle.



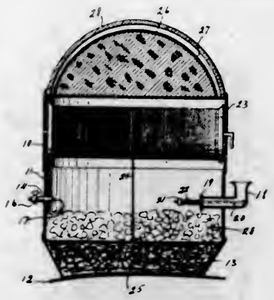
2. In combination with a grinding machine consisting of a casing having a grinding wheel shaft mounted within the casing to travel bodily in the path of a circle to advance the grinding wheel in an orbital path, and means for supporting the shaft for adjustment toward and from the axis of said circle; an indicator mounted upon said casing, a contact member supported to travel in the path of a circle with said shaft, and positioned periodically in its path of travel to engage the indicator and operate it as the shaft is adjusted outwardly from the axis of said circle.

1,476,386. BREAST DRILL. JOE C. WILLIAMS, Ferda, Ark. Filed Sept. 13, 1922. Serial No. 587,983. 1 Claim. (Cl. 145—67.)



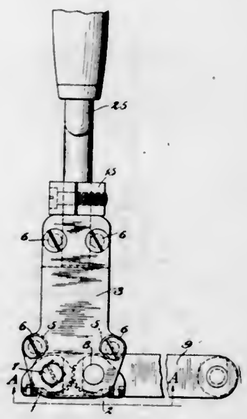
A drill comprising a stock provided at a point between its ends with an integrally joined hollow enlargement, there being sufficient lengths of the stock extending beyond the diametrically opposite sides of the enlargement to afford a hand hold upon the stock at either side of the enlargement, one end portion of the stock having a bore extending along its axis and the same end portion being provided at its extremity with a socket the side walls of which are integral with the stock, said bore communicating with the cavity of the enlargement and the socket, bearing balls located in the socket of the stock, a shaft journaled in the bore and having a head which is received in the socket and which engages and retains the balls and means mounted at the enlargement of the stock for turning the shaft.

1,476,387. LIFE-SAVING APPARATUS. FREDERICK W. ATWELL, Lake Villa, Ill. Filed June 20, 1923. Serial No. 646,627. 4 Claims. (Cl. 9—9.)



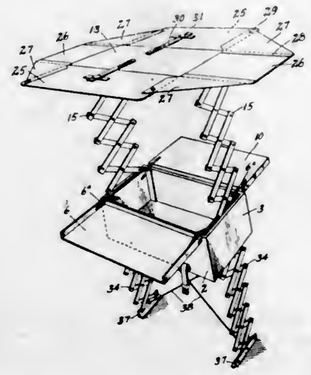
1. In life saving apparatus, two casing sections engaged with a slip joint, one casing being adapted for attachment to the body of the wearer, the other casing section having an extensible flexible connection with the first named casing section and being provided with a flotation element causing the same to rise to the surface, the casing sections combining to form therebetween a compartment, a chemical within said compartment forming gas upon the addition of water, and means for admitting water to the compartment upon a predetermined submergence of the body to which the device is attached.

1,476,388. WIRE-JOINING TOOL. SERAPHINE F. BAUWENS, Chicago, Ill., assignor to Wirebounds Patents Company, a Corporation of Maine. Filed Nov. 26, 1920. Serial No. 426,593. 24 Claims. (Cl. 140—118.)



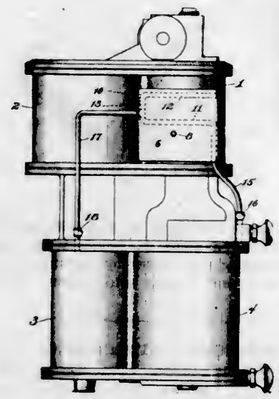
1. A tool for use in joining package wires by intertwisting, comprising, in combination, a plurality of wire engaging means spaced apart a distance approximately equal to the desired length of a twist, at least one such means arranged to be rotated relatively to the wire to produce the twist; and means for preliminarily tensioning the wire.

1,476,389. CONVERTIBLE CAMP CASE. JACOB BLANK, Los Angeles, Calif. Filed May 16, 1922. Serial No. 561,291. 14 Claims. (Cl. 190—12.)



1. A luncheon kit comprising a case having a movable top section, and means connecting the top section to, and whereby it may be supported in an elevated or hood forming position above the case.

1,476,390. LUBRICATOR FOR AIR COMPRESSORS. JACOB L. BUCHMANN, Erie, Pa. Filed June 3, 1922. Serial No. 565,676. 6 Claims. (Cl. 184—18.)

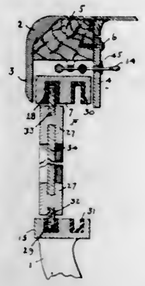


1. In a lubricator for the air cylinders of air compressor pumps, the combination with the air and steam cylinders of the compressor, of an oil reservoir having a wall surface in conducting contact with a steam cylinder so as to be heated therefrom for heating and vaporizing the oil therein, means for collecting the oily vapor, and means for delivering the same to said cylinders.

1,476,391. AUTOMOBILE TOP. LOUIS J. CARL, San Francisco, Calif. Filed Oct. 9, 1922. Serial No. 593,226. 2 Claims. (Cl. 296—47.)

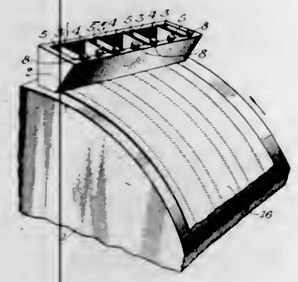
1. In an automobile a plurality of windows, a strip having channel ways movably suspended in the top and other channel ways in the body portion of the automobile, a plurality of wedge couples by which said strip

may be forced downward and connections including a handle for operating said wedge couples to depress the strip and clamp the windows between the channel ways



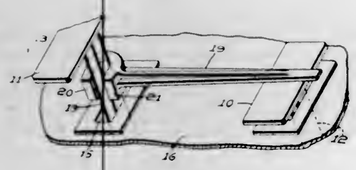
in any of their adjusted positions, said windows comprising glazed sash having flexible tongues at the top and bottom adapted to engage the channel ways.

1,476,392. PROCESS OF MAKING COMPOSITE FILMS. STEWART J. CARROLL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 4, 1922. Serial No. 592,343. 8 Claims. (Cl. 18—57.)



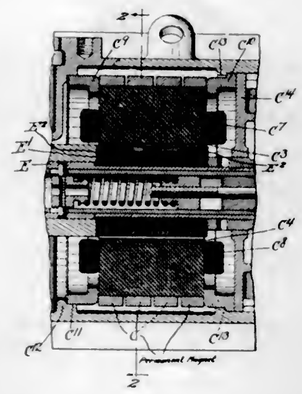
1. The process of making a composite cellulosic film which comprises the steps of locating film strips edge to edge and uniting said edges by forming a groove between said edges and closing said groove from the bottom outward.

1,476,393. AUTOMOBILE ATTACHMENT. CHARLES F. COWDREY, Fitchburg, Mass. Filed Mar. 6, 1923. Serial No. 623,089. 5 Claims. (Cl. 74—81.)



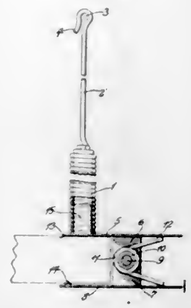
1. An attachment for holding the foot brake treadle of an automobile in brake applying position, comprising a bar having jaws adapted to engage the opposite sides of the stem of the foot clutch treadle to secure the bar thereto in a laterally extending direction and in position to hold the foot brake treadle depressed.

1,476,394. ELECTRIC GENERATOR. CHARLES W. DAKE, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a Corporation of New Jersey. Original application filed Aug. 20, 1919, Serial No. 318,651. Divided and this application filed May 21, 1920. Serial No. 383,135. 4 Claims. (Cl. 171—209.)



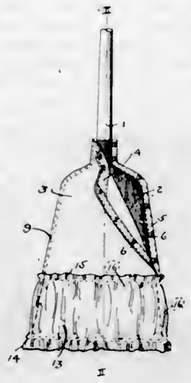
1. An electric generator comprising a rotor having a plurality of shallow longitudinal slots in the periphery thereof, flanges closing the ends of the slots and having substantially the same diameter as the balance of the rotor, field magnets surrounding the slotted portion of the rotor, there being working clearance between the faces of the magnets and the periphery of the rotor.

1,476,395. SUPPORT FOR THE CORDS OF ELECTRIC IRONS. MARCUS J. DAVIS, St. Louis, Mo., assignor, by mesne assignments, to Snappy Sales Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 4, 1922. Serial No. 599,104. 1 Claim. (Cl. 68—9.)



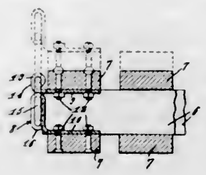
A device of the character described, comprising an upright arm made of a single piece of wire composed of a coil spring portion at its lower end and having the opposite end extending upwardly above the coil spring portion, said coil spring portion being formed by a plurality of superimposed convolutions of the wire and providing a hollow interior, a clamping device for supporting said arm in an upright position, leaving the spring free to bend and react to its original upright position, said clamp being provided with a projection adapted to be forced into the interior of the coil spring portion constituting a part of the supporting arm.

1,476,396. SANITARY BROOM MOP. MINERVA B. DICKSON, Belvedere, Calif. Filed Feb. 12, 1923. Serial No. 618,609. 2 Claims. (Cl. 15—247.)



1. A mop attachment for brooms comprising a fabric bag open on one side and adapted to enclose a broom head and lower part of the handle by being drawn thereover transversely to the broom straws, snaps for closing said side around the broom, a mop member secured to said bag by a plurality of snaps and enclosing the end of said bag opposite said handle.

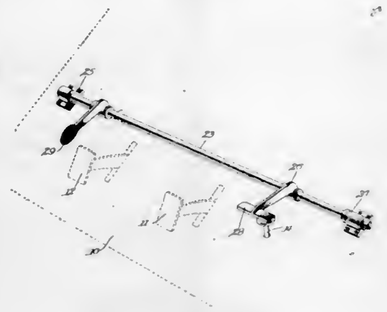
1,476,397. CONNECTOR FOR VENTILATING RACKS OR TRAYS. EDWARD A. DOWNEY, Del Ray, and DAVID MCEWAN, Alexandria, Va. Filed Apr. 28, 1923. Serial No. 635,310. 2 Claims. (Cl. 16—163.)



1. A device of the class described comprising a pair of panels adapted to be disposed in horizontal alinement, rigid hinge elements secured to the panels, a rigid connecting member, and means for pivotally uniting the connecting member with each of the hinge elements, one of the last specified means being so constructed as to permit the panels to be folded together back to back or face to face, all portions of the hinge elements and the connecting member being housed between the panels and being located entirely below the upper surface of the panels when the panels are in alinement and in the same horizontal plane.

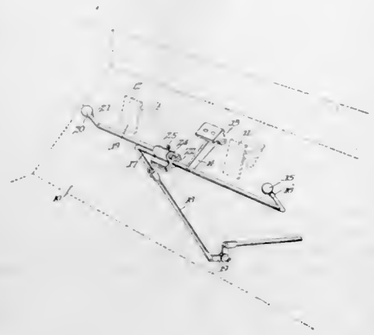
1,476,398. AUXILIARY ACCELERATOR. FRANK T. FRIDRICH, North Bend, Nebr. Filed Sept. 9, 1922. Serial No. 587,087. 5 Claims. (Cl. 74—39.)

1. In an automobile having brake and clutch pedals, the combination with the usual accelerator having a foot operated pedal positioned substantially in front of the driver's seat, of additional means for controlling the gas supply positioned on the floor of the car on the same side of the longitudinal center of the car with the driver's seat and spaced laterally from said accelerator pedal whereby



either foot of a driver may be used to control the gas supply, said means being operable independently of the clutch and brake pedals.

1,476,399. AUXILIARY ACCELERATOR. FRANK T. FRIDRICH, North Bend, Nebr. Original application filed Sept. 9, 1922, Serial No. 587,087. Divided and this application filed Aug. 11, 1923. Serial No. 656,915. 3 Claims. (Cl. 74—81.)



1. In an automobile having the usual foot board and pedal mechanism for operating the clutch and brakes, the combination with the usual accelerator mechanism including a pedal mounted beneath the foot board and extending therethrough, of an additional arm connected to said pedal and extending transversely of the car, said arm having a pedal portion positioned above the foot board on the same side of the longitudinal center of the car with the driver's seat and spaced laterally from said accelerator pedal, whereby either foot of the driver may be used to control the gas supply, said pedal portion of the arm being adjustable transversely of the automobile.

1,476,400. MOPSTICK. NATHANIEL C. HALL, Old Lyme, Conn. Filed June 15, 1922. Serial No. 568,513. 3 Claims. (Cl. 15—147.)

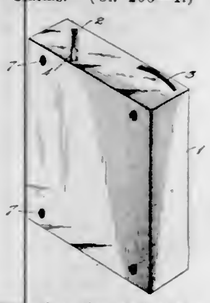
1. A mop stick comprising a shank, a head mounted on the outer end of said shank, wire arms slidably mounted

on said shank for longitudinal movement, and a slide around said shank and arms and adapted to press the



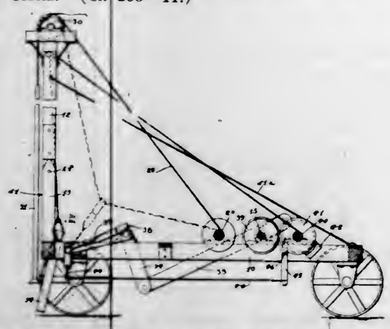
outer ends of the arms toward the said shank below the said head, whereby a cloth wrapped around said head will be secured thereto.

1,476,401. METHOD OF AND CONTAINER FOR STORING USED SAFETY-RAZOR BLADES. JOHN J. HECHMER, Grafton, W. Va. Filed Feb. 20, 1923. Serial No. 620,232. 6 Claims. (Cl. 206—1.)



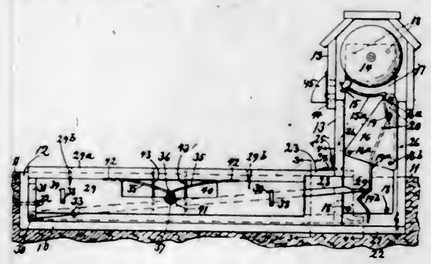
1. A container of a size and shape to receive razor blades having transverse flexibility, said container being provided with a slot of such shape as to require a distortion of the razor blade while being inserted therethrough.

1,476,402. DRILLING RIG. WILLIAM J. JEFFERS, Copan, Okla. Filed Oct. 19, 1920. Serial No. 418,057. 1 Claim. (Cl. 255—11.)



In a well drilling rig, a frame, a mast secured thereon and having a sheave at its upper end, a bull wheel shaft, a cable connected to the bull wheel shaft and passing over the sheave, a bell crank lever, a band wheel shaft, an operating connection between the band wheel shaft and one arm of the bell crank lever and a spudding shoe pivoted to the opposite arm of the bell crank lever and having a hooked end to engage a portion of the cable between the bull wheel shaft and the sheave, the connection between the arms of the bell crank lever including a shaft pivoted upon the frame, the inner end of the shaft extending inwardly of the arm to which the shoe is connected and forming a support for the free end of the shoe when the same is not in use.

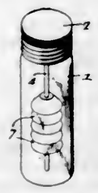
1,476,403. SIGNAL FOR ROAD CROSSINGS. PETER A. JOHNSON, Lyle, Minn. Filed Apr. 6, 1923. Serial No. 630,361. 2 Claims. (Cl. 116—67.)



1. The combination with a railway track and a vehicle road crossing it, of a signal comprising a channel shaped base spaced some distance away from the railway track and laid in the vehicle road in transverse position thereof and flush with the top of the road; a bell housing fixed upon one end of the channel and a bell and spring actuated clapper in the bell housing, said clapper having an operating lever with two reversely arranged cam faces, a horizontally disposed single actuating arm having one end pivoted in the end of the base farthest from the bell housing and its other end extended into the lower part of the bell housing and there arranged to contact with the cam faces and ring the bell when the actuating arm is swung either up or down on its pivot. a horizontally disposed single bar fitted loosely in the base channel and having pivoted connection with the actuating arm; springs tending at all times to raise the said bar partly above the base channel and means limiting said raising movement.

2. The structure specified in claim 1, in which the horizontal bar is an inverted channel with longitudinal slots in the middle of its side flanges, a horizontal pin extending through said slots and fitted in the sides of the base channel, bow-shaped springs one in each side of said slots and having each at its middle a circular loop encircling the pin, the ends of said spring being secured to the side flanges of the channel bar whereby the latter is held elevated by the pin and the springs.

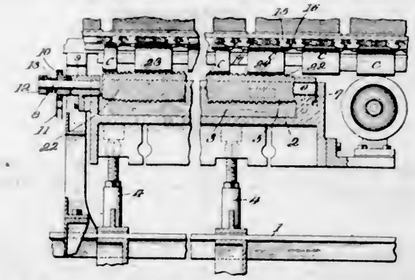
1,476,404. CONTAINER. HOWARD R. JONES, Philadelphia, Pa., assignor to Vibro-Dental Products, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 3, 1920. Serial No. 393,829. 6 Claims. (Cl. 215—37.)



1. A package comprising a vial having a detachable closure, a rod detachably mounted longitudinally and substantially centrally within the vial, and an article or

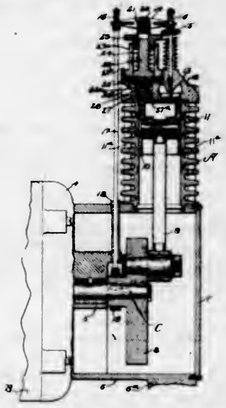
articles supported by the rod clear of the inner surface of the vial and removable with the rod from the vial following detachment of the closure.

1,476,405. SOLDERING MECHANISM FOR CANS. ALFRED L. KRONQUEST, Chicago, Ill., assignor to Continental Can Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Apr. 26, 1922. Serial No. 556,690. 8 Claims. (Cl. 113—62.)



1. A solder machine including in combination, a solder bath, a solder roll disposed in said bath, means for rotating said soldering roll, and means for moving can bodies endwise of the roll as it rotates with the side seam of the can body positioned to make contact with the roll, said solder roll being shaped so as to make uniform contact with the side seam throughout its entire length when said side seam is bowed outwardly by the heat incident to soldering.

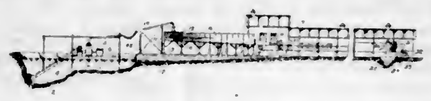
1,476,406. AUTOMATIC CONTROL FOR PUMPS AND THE LIKE. PHILIP K. LINDSAY, West Somerville, Mass. Filed Oct. 28, 1921. Serial No. 511,205. 23 Claims. (Cl. 103—40.)



1. In a pump of the type having a positively actuated valve means for regulating the pressure in the pump. said means adjusting the movement of the valve in response to the difference of pressure between the interior and exterior thereof.

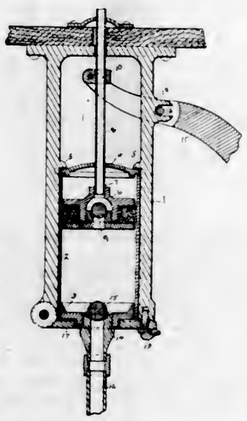
1,476,407. PEAT-FUEL MACHINE. ALEXANDER MCDOUGALL, Duluth, Minn. Filed Dec. 30, 1922. Serial No. 609,788. 2 Claims. (Cl. 44—29.)

1. An organization of the character described for producing peat fuel, from a continuous traveling body of peat from the place of excavation to the place of storage, comprising an excavator, a settling tank into which the excavator discharges, a long, continuously operated, endless, drying belt upon which the settling tank discharges, said belt being artificially heated, means for expressing



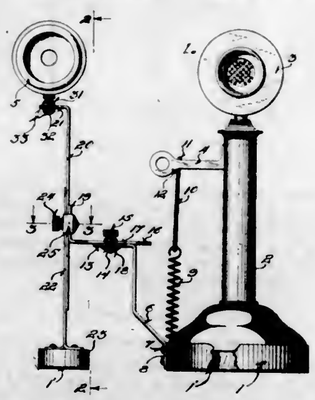
water from the peat while on the belt, and means for conveying the dried material from the drying house to the place of storage.

1,476,408. APPARATUS FOR DISPENSING LIQUIDS. JOHN W. MACDONALD, Wilkinsburg, Pa. Filed Feb. 11, 1922. Serial No. 535,759. 7 Claims. (Cl. 103—188.)



1. In a liquid dispensing device having an inverted U shaped frame adapted to be affixed to and depend from the underside of a counter board, and a pressure cylinder removably fitted therein, a removable plate for supporting said pressure cylinder and means for attaching said plate to said U shaped frame.

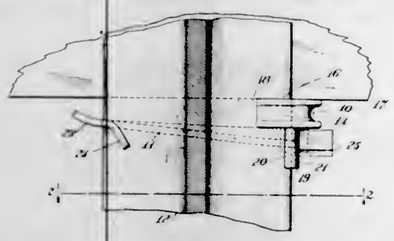
1,476,409. TELEPHONE-RECEIVER ATTACHMENT. JULIUS MIRZEJEWSKI, Milwaukee, Wis. Filed Oct. 12, 1922. Serial No. 594,068. 1 Claim. (Cl. 179—148.)



An attachment for a telephone comprising a main cup shaped base adapted to receive the bottom portion of said telephone, an auxiliary base, a laterally adjustable

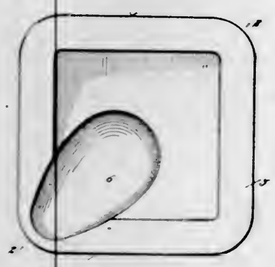
member joining said bases, a vertically adjustable member extending upwardly from said auxiliary base, a universally mounted yoke carried by the upper portion of said vertically adjustable member, spring arms carried by said yoke and adapted to engage a telephone receiver, a spring secured to said main base and bifurcated member secured to the outer end of said spring and adapted to engage the arms of the telephone receiver hook.

1,476,410. RAIL ANCHOR. PHILIP W. MOORE, Hubbard Woods, Ill., assignor to The P. & M. Company, Chicago, Ill., a Corporation of Illinois. Filed July 21, 1921. Serial No. 486,403. 6 Claims. (Cl. 238—329.)



6. A rail anchor comprising a shoe member formed with a jaw to engage one edge of a rail base and with upper and lower arms extending longitudinally of the rail to provide a recess, and a spring member formed with a jaw for engaging the opposite edge of said rail base and with a body portion extending transversely of said rail base adapted to be positioned in said recess and supported on said lower arm; said body being of greater width than said recess, whereby canting of said body is required to permit its entrance into said recess.

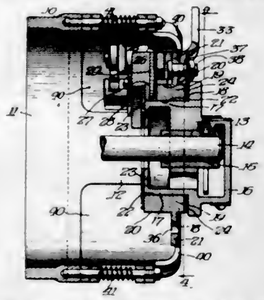
1,476,411. CLOSURE FOR CONTAINERS. SUNSHINE F. NAHM, Bowling Green, Ky. Filed Jan. 8, 1923. Serial No. 611,377. 4 Claims. (Cl. 220—24.)



1. A top for a container made of sheet material, and provided with a cavity which occupies a fractional part of its entire upper surface and which lies below that portion of said surface which is not occupied by the cavity, said cavity being of a size to measure a predetermined quantity of material.

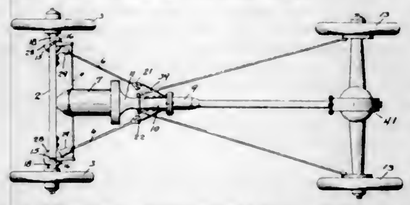
1,476,412. MOTOR CONSTRUCTION. JOHN D. NIES, St. Charles, Ill., assignor to Kimble Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 18, 1922. Serial No. 554,713. 16 Claims. (Cl. 172—36.)

1. In a machine of the character described, the combination with a frame and a commutator shaft, of a rocker rotatable about the axis of the shaft, a commutator brush assembly associated with the rocker, an arm detachably connected to the rocker, and means associated with the



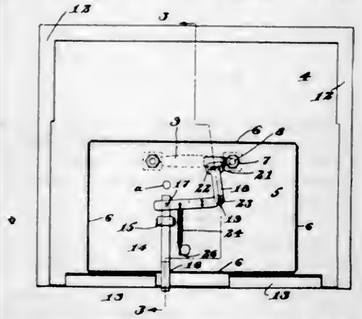
rocker to limit its rotation in one direction at any point within the effective range of movement of the brush about the shaft.

1,476,413. FRONT AND FOUR WHEEL DRIVE. NELS NORQUAL, Flora, N. Dak. Filed Aug. 11, 1919. Serial No. 316,874. 6 Claims. (Cl. 180—44.)



1. A driving mechanism for the front wheels of a vehicle having also a rear wheel drive comprising, a transmission shaft extending from the transmission case to the driving mechanism for the rear wheel, a worm gear slidable on said shaft at an intermediate point, a worm driven differential gear mechanism operated by said worm gear and connected to driving means for the front wheels, means spaced at each end of said worm gear secured to said transmission shaft adapted to be engaged with either end of said worm gear whereby, upon movement of said shaft in opposite directions, said worm will be moved out of engagement with one of said means and into engagement with the other.

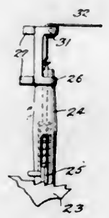
1,476,414. CABINET CLOSURE. ENOCH OHNSTRAND, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass., a Corporation of New Jersey. Filed Apr. 12, 1922. Serial No. 551,958. 6 Claims. (Cl. 292—173.)



1. A cabinet closure having a face plate, a back plate, a loop handle on said face plate, latching mechanism mounted between said plates comprising a bolt, a bell crank

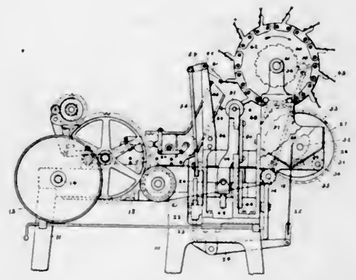
having one arm pivotally attached to said bolt and the other arm having a portion extending through a slot in said face plate to the exterior thereof within said loop handle to form an actuator for operating said bolt when said handle is grasped.

1,476,415. VEHICLE BRAKE. JAMES H. PASHIA, Old Mines, Mo. Filed Oct. 3, 1922. Serial No. 592,590. 3 Claims. (Cl. 74—39.)



1. A vehicle brake-beam operating mechanism including a lever operatively connected with the beam, a member removably carried by the lever and having a roller therein, said member being reversible on the lever to support a section thereabove, a locking pawl carried by the lever, and a flexible element connected to the locking pawl and engaged over the roller for operation by a driver seated upon a lead animal of the draft team.

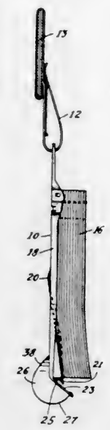
1,476,416. MACHINE FOR FEEDING AND POINTING HAIRPIN BLANKS AND THE LIKE. EARL R. PERSON, Leominster, Mass., assignor to Viscoloid Company, a Corporation of Massachusetts. Filed June 9, 1920. Serial No. 387,567. 5 Claims. (Cl. 144—30.)



1. In a machine for pointing the ends of rod-like blanks, the combination of a pair of centers for supporting the ends of said blanks, a holder on each side of the machine, said holders being mounted to swing, substantially parallel motion connections for swinging them forward and back, and a cutter behind each center in each holder for engaging the surfaces of the end of the blank and simultaneously pointing both its ends.

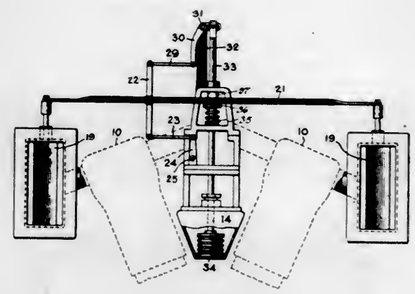
1,476,417. CHECK CUTTER. CHARLES T. RASCHICK, St. Paul, Minn. Filed Feb. 10, 1921. Serial No. 443,819. 6 Claims. (Cl. 164—119.)

1. A check cutter having a body portion formed with a longitudinal slot, an inclined table formed on the end of said body having a cutting notch, a tongue on said body portion operating in said longitudinal slot and having a cutting edge adapted to engage said cutting notch, said tongue having a portion normally positioned away from said slot near the cutting edge of said tongue and



a receptacle secured to the body and inclined table having an inclined wall extending across said slot adapted to discharge the cuttings from said receptacle through said longitudinal slot when the device is inverted.

1,476,418. CONTROL SYSTEM FOR AEROPLANE SUPERCHARGERS. EDWIN W. RICE, Jr., Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 31, 1919. Serial No. 301,108. 10 Claims. (Cl. 60—13.)

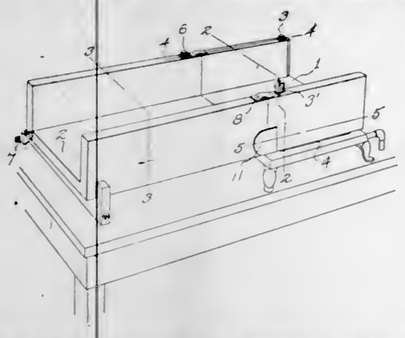


1. In combination, an internal combustion engine, a supercharger for supplying compressed air thereto, manually operated means for controlling said supercharger, and means which operates on said manually operated means for limiting the degree of supercharging obtainable with said manually operated means.

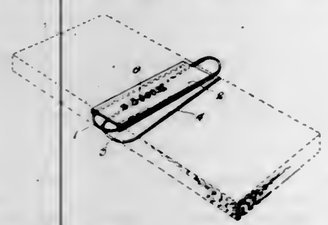
1,476,419. SEALING DEVICE FOR WRAPPERS. JAMES B. ROBBINS, Crowley, La. Filed Jan. 15, 1923. Serial No. 612,874. 2 Claims. (Cl. 93—2.)

1. In a device for the purpose set forth, troughs, each comprising a hollow shell including a straight base and

angle sides, means for removably connecting the confronting ends of the troughs, each of said troughs comprising a water container, and the water in one of said containers designed to be heated.

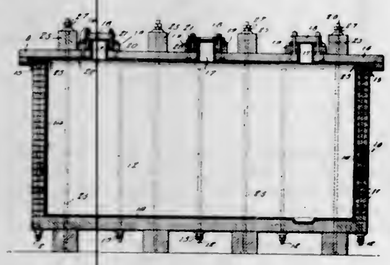


1,476,420. PAPER-FASTENING DEVICE. ROBERT H. ROMIG, Anchorage, Territory of Alaska. Filed Apr. 27, 1923. Serial No. 635,042. 3 Claims. (Cl. 40—11.)



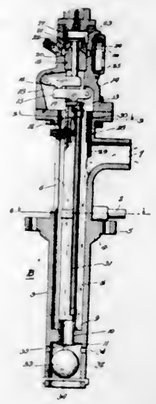
1. A device of the character described comprising an elongated looped body portion formed of a single length of spring material, an arm disposed coincidentally with said body portion but at an oblique angle thereto, and an indicia bearing plate secured to the opposite sides of said body portion.

1,476,421. TRANSPORTABLE MURIATIC-ACID TANK. JASPER M. ROWLAND, Niagara Falls, N. Y., assignor to Hooker Electrochemical Company, New York, N. Y., a Corporation of New York. Filed Feb. 4, 1922. Serial No. 534,200. 6 Claims. (Cl. 206—2.)



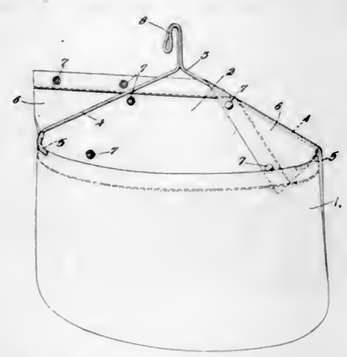
1. An acid container for the transportation of acid of the type in which size and character render its lining susceptible to injury under normal conditions of use, comprising an open-top tank, a sheet rubber lining extending over the upper edge of the tank and a cover holding the lining in position along the said edge.

1,476,422. THERMALLY-CONTROLLED VALVE FOR LOW-WATER SAFETY TELLTALES. GEORGE A. SAGER, Albany, N. Y. Original application filed Mar. 4, 1920, Serial No. 363,206. Divided and this application filed June 8, 1921. Serial No. 475,970. 10 Claims. (Cl. 297—13.)



1. A thermally operated valve including a casing, a valve mounted therein, a thermally expansible element within the casing for opening the valve, and means for obstructing a circulation of water in said element.

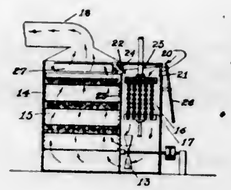
1,476,423. CLOTHESPIN BAG. HERBERT S. SALISBURY, Waltham, Mass. Filed June 6, 1922. Serial No. 566,242. 3 Claims. (Cl. 150—1.)



1. A clothespin bag consisting of a sack having a back and a front, the back being higher than the front, and a support provided with laterally extended arms, the corners of the back of the sack being folded over the arms and secured to the body of the back, said arms being provided on their ends with bag distenders acting to hold the sack open.

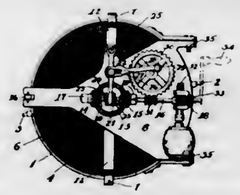
1,476,424. CIRCULATION-REGULATING MEANS FOR DRIERS. FREDERICK G. SARGENT, Westford, Mass., assignor to C. G. Sargent's Sons Corporation, a Corporation of Massachusetts. Filed Mar. 3, 1922. Serial No. 540,892. 4 Claims. (Cl. 34—12.)

1. In a drier, the combination of a main enclosed casing, means therein for conveying the material to be dried, a steam coil, means for forcing the air from the steam coil through the drier, means whereby the air to be circulated through the steam coil can be drawn into it either from



the exterior or from the space over the aprons in the drier, and means for preventing the air entering from either whenever it is permitted to enter from the other.

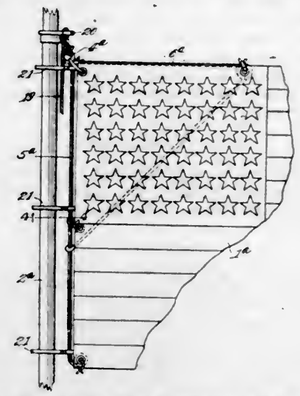
1,476,425. PHOTOPRINT-WASHING MACHINE. FRANK W. SHOLES, Portland, Me. Filed Apr. 29, 1922. Serial No. 557,306. 3 Claims. (Cl. 95—93.)



1. In a photo-print washing machine, the combination of a water tank, means for admitting water into said tank near the bottom thereof, means for discharging water from said tank near the top thereof, a frame member mounted on the top of said tank, a vertical oscillating shaft mounted in a bearing in said frame member, paddles fixed to the lower end of said oscillating shaft and placed so as to revolve in the water in the upper portion of said tank, means for actuating said vertical shaft rotatably, first in one direction and then in the reverse direction, means for causing said shaft to remain motionless for a spaced period of time immediately preceding the change of direction of rotation of same, whereby the movement of the current in the upper portion of the water in the said tank, caused by the rotation of said paddles, may be thoroughly communicated to the lower portion of the water in the said tank, and a horizontal, perforate partition submerged in the water and lying beneath and in close proximity to the under side of said paddles and extending on all sides to within a spaced distance of the inner sides of said tank.

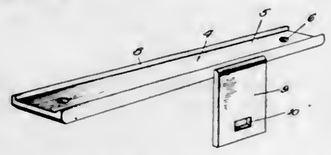
1,476,426. FLAG-SUPPORTING DEVICE. JOHN M. SHORT, Wheeling, W. Va. Filed Feb. 15, 1923. Serial No. 619,206. 4 Claims. (Cl. 116—174.)

1. The combination with a flag, of a support therefor composed of a single length of wire shaped to form an upright member, a member extending horizontally from the upper end of said upright member, and a downwardly and rearwardly inclined member whereby said horizontal member is braced, said upright member being arranged for mounting in rotatable relation to a flagstaff and having the inner end of the flag attached thereto, the horizontal member having its outer end attached to and supporting the flag at a point in the midlength of the upper edge of the latter, an eye-forming loop being formed intermediate



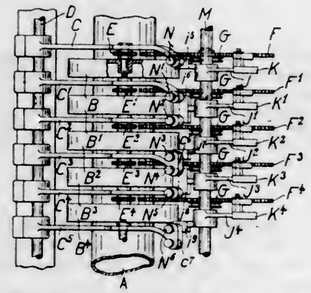
the horizontal and inclined members, and the inclined member having its lower end attached to the upright member intermediate the ends of the latter.

1,476,427. CHECKSTRAP HOLDER FOR LOOMS. WILLIAM F. SINK and GEORGE W. CHANEY, Lexington, N. C. Filed Dec. 28, 1921. Serial No. 525,392. 1 claim. (Cl. 139—165.)



The combination with the lay of a loom, of a check strap holder comprising an attaching plate having longitudinal marginal flanges and being secured to the under side of one side member of the lay and said flanges being adapted to be embedded therein, said plate being provided at one longitudinal flange with an integral depending lug having an elongated transverse aperture for the passage of a bolt for rigidly securing the check strap thereto, said lug being offset with relation to said plate.

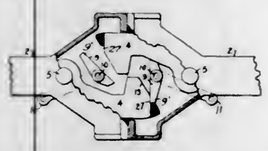
1,476,428. MACHINE FOR MEASURING SURFACE AREAS. HERMANN THUN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed June 21, 1922. Serial No. 569,893. 2 Claims. (Cl. 33—124.)



1. In a machine for measuring surface areas comprising a driving drum for guiding the article to be measured, equidistantly spaced feelers normally resting on said drum,

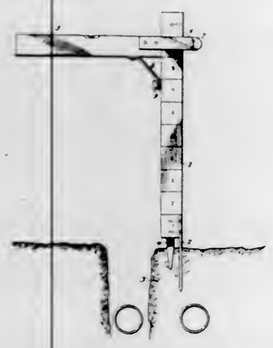
and measuring members adapted to be actuated by said feelers when the same are lifted from the drum by the article to be measured, a portion of the said measuring members being connected with one feeler each and a portion of them being connected with two feelers each, the dually operated members being proportioned to the singly operated members substantially according to the proportion of the breadth of the feelers to the breadth of their spaced intervals.

1,476,429. COUPLING MECHANISM. CHARLES H. TOMLINSON, Mansfield, Ohio. Filed June 7, 1922. Serial No. 566,489. 10 Claims. (Cl. 213—104.)



1. A car coupling mechanism comprising a hollow body member, means for attaching the body member to a car, a coupling member pivotally mounted therein to engage and lock with a like coupling member on a counterpart coupling head, unlocking means pivotally mounted within the body member and aranged to engage the coupling member therein and the coupling member on the counterpart coupler to move the coupling members to the unlocked position and means on the coupling member to be engaged by the unlocking means of the counterpart coupler to maintain the coupling members in an unlocked relation.

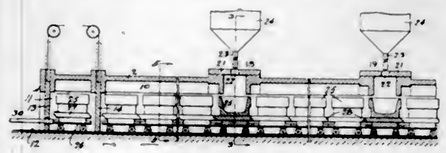
1,476,430. TILING TARGET. WALTER C. TRELOAR, Mitchell, S. Dak. Filed Apr. 27, 1921. Serial No. 464,884. 4 Claims. (Cl. 33—74.)



1. A device of the class described comprising an upright having graduations thereon, a level, means for slidably supporting said level on said upright, an angular bracing member carried by said level and designed for contact with the side edge of said upright, and means carried by the bracing member for contact with the upright to adjust the level with respect to the latter.

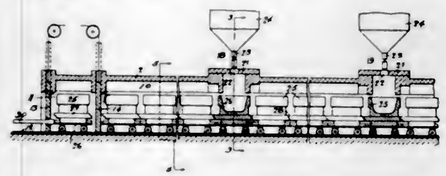
1,476,431. METHOD OF MELTING GLASS IN POTS. FRANK E. TROUTMAN and CHARLES H. CHRISTIE, Butler, Pa. Filed Mar. 13, 1920. Serial No. 365,483. 8 Claims. (Cl. 49—77.)

1. The method of melting glass in pots consisting in introducing the pots into a heating chamber moving the pots through said chamber, maintaining the temperature in said chamber as the pots move through same whereby the glass is melted and fined, and admitting batch to said pots at intervals in their passage through said heating



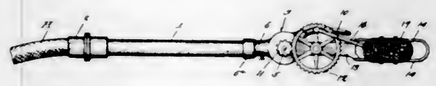
chamber, the said pots being introduced into said heating chamber and removed therefrom without exposing said chamber to the outer air.

1,476,432. GLASS-MELTING-POT FURNACE. FRANK E. TROUTMAN and CHARLES H. CHRISTIE, Butler, Pa. Filed Mar. 13, 1920. Serial No. 365,484. 8 Claims. (Cl. 49—59.)



2. A continuous pot-furnace for melting glass having a plurality of moving carriers therein, means for charging batch into said pots at intervals in said furnace, means for varying the temperature at different portions of said furnace, and means for introducing the pots into said furnace and removing the pots therefrom without opening the heating chamber of said furnace to the outer air.

1,476,433. RECIPROCATORY FOUNTAIN BRUSH. MORT VANDERVOORT, Saginaw, Mich. Filed Mar. 3, 1923. Serial No. 622,595. 4 Claims. (Cl. 15—22.)

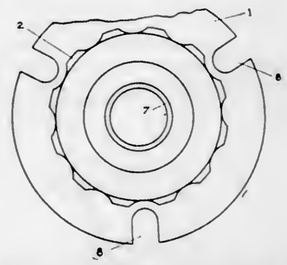


1. In a washing apparatus, a fluid motor having rotary blades mounted therein, a hollow handle connected therewith, a pipe extending through said handle to discharge water against said blades, a pinion actuated by said motor, a gear meshing with said pinion, a reciprocatory scrubbing element, a pitman connecting said element with said gear whereby the rotation of the gear reciprocates the element, and a pipe leading from said motor casing to discharge adjacent said element.

1,476,434. CHUCK. ERNST HJALMAR WALODDI WEIBULL, Gottenborg, Sweden, assignor, by mesne assignments, to Nya Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Filed Nov. 30, 1920. Serial No. 427,411. 3 Claims. (Cl. 279—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

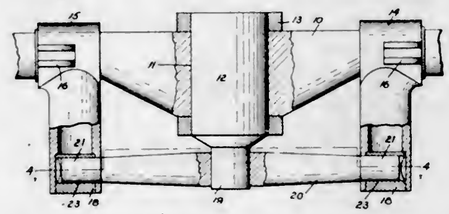
1. A chuck comprising a sleeve provided with an internal work receiving recess, a ring threaded for adjustment longitudinally of said sleeve, a recessed flange on said ring, a work holder having an internal flange adapted to overlie said recess, angular fingers carried by the holder adapted for insertion in the recesses of the ring flange and responsive to partial rotation of the holder relative to the ring whereby to secure said holder

in position thereon, said fingers acting to limit the rotary movement of the holder relative to the ring, whereby subsequent to the securing of the holder, further ro-



tary movement of the latter is transmitted to the ring to cause the latter to advance on the threads of the sleeve and to cause the internal flange to approach the work receiving recess.

1,476,435. EQUALIZING DEVICE. ARTHUR B. WHITTET, Washington, D. C. Filed Sept. 22, 1923. Serial No. 664,318. 1 Claim. (Cl. 89—40.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



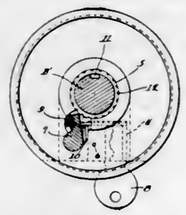
An equalizing device for gun carriages embodying a top carriage, an axle mounted in said top carriage, a pin connecting said axle to the top carriage, equalizer arms adapted to carry the members of a split trail swingably supported on said axle, bushings rotatably mounted in said arms and a rod journaled on said pin, said arms provided with slots the ends of said rod being adapted to extend into said slots and be mounted in said bushings.

1,476,436. RESILIENT HEEL. JOHN W. AYMAR, Jr., New York, N. Y. Filed Sept. 27, 1920. Serial No. 413,090. 1 Claim. (Cl. 36—35.)



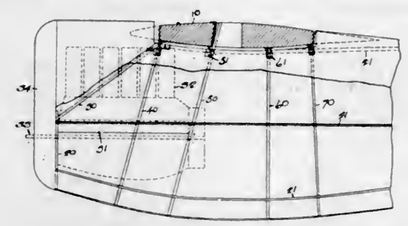
A resilient top-lift for a shoe heel of substantially uniform thickness and resiliency throughout and having a concave attaching face provided with a marginal attaching edge of heel shape and arranged in a plane, the longitudinal central line of the attaching face progressively increasing in depth from the rear edge of the lift to the breast line thereof in respect to the plane of the heel-shaped edge of the lift, the deepest point of the attaching face being at the center of the breast line, and the attaching face of the lift at any point in the length of the lift having a transverse curvature describing a single continuous arc.

1,476,437. SHAFT-LOCKING MEANS. WILLIAM T. BARKER, Angola, Ind. Filed Jan. 7, 1922. Serial No. 527,541. 5 Claims. (Cl. 70—90.)



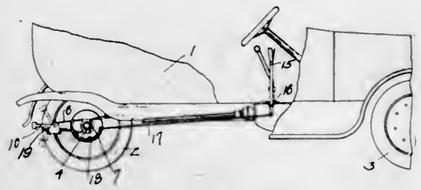
1. The combination with a steering shaft of a vehicle, of a locking means therefor including a pivoted engaging member mounted in a fixed frame and normally spring-pressed into engagement with said shaft for preventing rotation thereof, a plunger element for engaging the said member to release the same from engagement with said shaft, a key-actuated rotatable cylinder for carrying the plunger element, and eccentric means on said cylinder for actuating the plunger element, substantially as described.

1,476,438. AIRPLANE CONSTRUCTION. MILTON C. BAUMANN, Dayton, Ohio, assignor to Dayton-Wright Company, Dayton, Ohio, a Corporation of Delaware. Filed Aug. 30, 1920. Serial No. 406,764. 3 Claims. (Cl. 244—30.)



1. In an airplane, a plurality of bulkheads, a fuselage built upon the bulkheads, the latter also furnishing support for the engine and other heavy units, and means for suspending the bulkheads from the middle portion of a double wing.

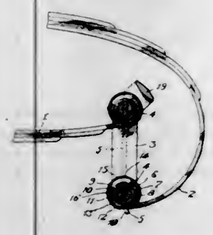
1,476,439. VEHICLE BRAKE. DEARK J. BOATSMAN, Elk, Wash., assignor of twenty-four one-hundredths to Carl E. Boatsman and twenty-five one-hundredths to Richard A. Burch, both of Elk, Wash. Filed Sept. 13, 1921. Serial No. 500,317. 2 Claims. (Cl. 188—30.)



1. The combination with a rear axle of a vehicle and supporting brackets thereon, of a transversely arranged brake shaft journaled in said brackets and a pinion thereon, a rack bar for oscillating said pinion and shaft and operating means for the bar, brake arms on the ends

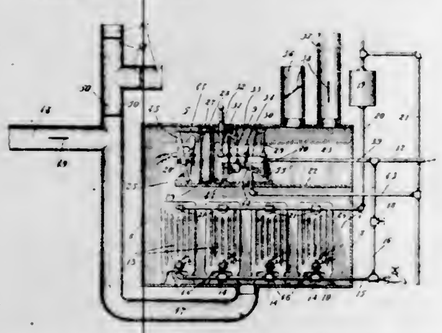
of said shaft disposed normally in the horizontal plane of the axle and shoes on said arms to engage the vehicle wheels, whereby the shoes may be applied either above or below the plane of the axle.

1,476,440. VEHICLE SPRING SHACKLE AND MEANS FOR LUBRICATING SAME. WILLIAM H. BROWN, Cleveland, Ohio. Filed Nov. 21, 1919. Serial No. 339,626. 5 Claims. (Cl. 267—54.)



1. In vehicle construction the combination with a leaf spring having a lug at the end thereof, said lug having a bolt hole extending through it, of a spring shackle having a link on either side of said spring, one of the eyes of each of said links being in alignment with the hole in said spring lug, and a bolt passing through said eyes of said links and the hole in said spring lug, said spring lug having a transverse aperture exposing the side of said bolt, and a cover for said aperture closely encompassing said lug and provided with an oil hole.

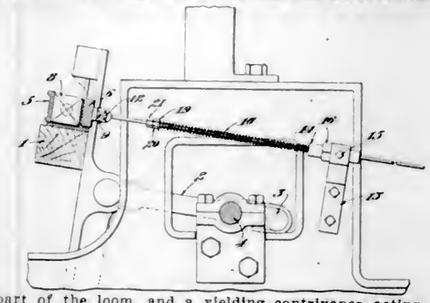
1,476,441. HEATING SYSTEM. JOSEPH ALPHONSE DION, Fort William, Canada. Filed Mar. 5, 1921, Serial No. 449,954. Renewed Sept. 10, 1923. 10 Claims. (Cl. 219—38.)



1. An apparatus of the character described, including a cabinet, said cabinet having a pair of compartments therein, means for heating the air within one compartment, a fan for forcing the air through the other compartment, and means for moistening the air during its passage through the other compartment.

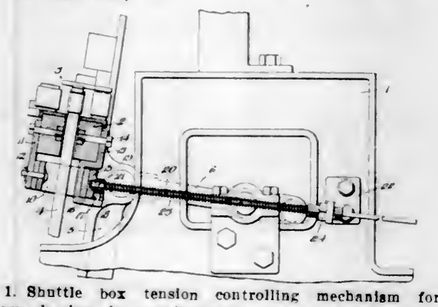
1,476,442. SHUTTLE-BOX TENSION-CONTROLLING MECHANISM FOR LOOMS. CLARE H. DRAPER, Hopedale, Mass., assignor to Hopedale Manufacturing Company, Milford, Mass., a Corporation of Massachusetts. Filed July 11, 1922. Serial No. 574,212. 9 Claims. (Cl. 139—185.)

1. Shuttle box tension controlling mechanism for looms having, in combination, a lay, a shuttle box carried by the lay and provided with a binder on the rear side of the box, a rod attached at its forward end to the binder and slidingly supported at its rear end on a stationary



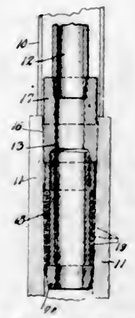
part of the loom, and a yielding contrivance acting on the rod to apply increasing resistance to its rearward movement with the backward movement of the lay.

1,476,443. SHUTTLE-BOX TENSION-CONTROLLING MECHANISM FOR LOOMS. CLARE H. DRAPER, Hopedale, Mass., assignor to Hopedale Manufacturing Company, Milford, Mass., a Corporation of Massachusetts. Filed Aug. 23, 1922. Serial No. 583,781. 3 Claims. (Cl. 139—165.)



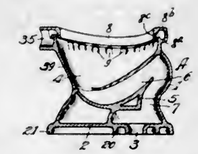
1. Shuttle box tension controlling mechanism for looms having, in combination, a lay, a shuttle box, a check strap, a friction device acting on the check strap to retard its motion, yielding means acting on the friction device with varying pressure depending upon the position of the lay to increase the pressure as the lay approaches the back center, and to decrease the pressure as the lay recedes therefrom.

1,476,444. DEEP-WELL PUMP. WARREN E. ELLIS, Lebo, Kans., assignor of one-half to Ruth Traylor, Lebo, Kans. Filed Jan. 15, 1923. Serial No. 612,694. 2 Claims. (Cl. 103—180.)



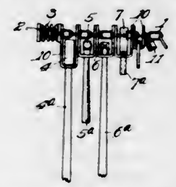
2. In a pump, an anchor coupling comprising a tubular member interiorly threaded at opposite ends and having a tapering outer wall, a sleeve threaded into said coupling and provided at its free end with a head having tapering outer walls and a tool hold, and a packing carried by said sleeve intermediate its head and the end of said coupling member whereby adjustment of the sleeve effects a clamping action against said packing.

1,476,445. SIPHON-ACTION WATER-CLOSET. SAMUEL C. HILL, JOHN M. GIBSON, and JOHN E. WAIGHT, Wheeling, W. Va. Filed Apr. 27, 1923. Serial No. 635,131. 10 Claims. (Cl. 25—156.)



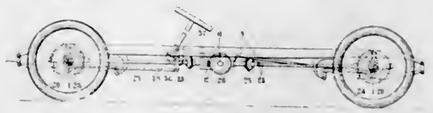
1. The method of constructing siphon action closets, which comprises separately forming the opposite sides of the closet body, each with an integral wing portion, said wings constituting complemental portions of the trap, uniting said sides and said wings, separately forming the closet bowl, and uniting said bowl to said body.

1,476,446. LOCKING DEVICE FOR TOOLS. ALEXANDER C. HOFFMAN, Wheeling, W. Va. Filed Feb. 19, 1923. Serial No. 619,993. 2 Claims. (Cl. 70—14.)



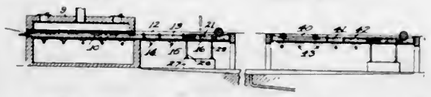
1. A device for securing together a plurality of tools, comprising a plurality of U-shaped metal clips, each clip having eyes in the parallel members thereof and having an eye in the cross member thereof for the reception of the handle of a tool received between said parallel members, a chain adapted to be threaded through the first mentioned eyes of said clips, a stop member carried at one end of said chain, a compression spring interposed between said headed member and the innermost clip, and a locking device attached to said chain adjacent to the outermost clip.

1,476,447. MOTOR ROAD VEHICLE. ALEXANDER ALBERT HOLLE, Paddington, London, England. Filed Dec. 30, 1922. Serial No. 609,867. 16 Claims. (Cl. 180—45.)



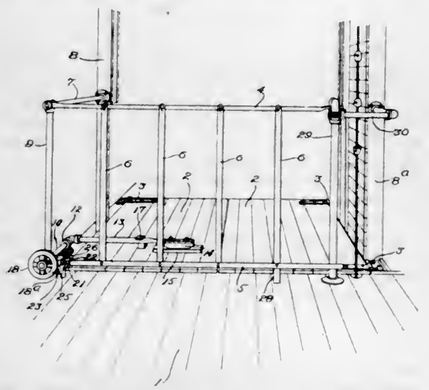
1. A motor road vehicle of the type in which all four wheels are driven and employed for steering purposes, comprising a transverse shaft driven by the power unit and mounted in bearings carried by a case carried by the frame of the undercarriage, four articulated axles each carrying one of the road wheels each pivoted to the frame of the undercarriage at its inner end and each connected to one of the springs of said undercarriage between its pivoted inner end and its point of articulation, four propeller shafts running between the transverse driving shaft and the road wheels, gearing between the ends of said propeller shafts and said transverse driving shaft on the one hand and the road wheels on the other hand, universal joints in said propeller shafts and four torque members coacting with said propeller shafts and each having a universal joint in alignment with one of the universal joints in one of said propeller shafts.

1,476,448. APPARATUS FOR AND METHOD OF HARDENING OR TEMPERING WIRE. CHARLES O. JOHNSON and CHARLES D. JOHNSON, Worcester, Mass. Filed Feb. 24, 1920. Serial No. 360,879. Renewed Oct. 20, 1923. 9 Claims. (Cl. 148—15.)



1. In an apparatus for treating wire, the combination with a lead heating bath and an oil cooling bath, of an intermediate lead bath between them kept at a temperature below the temperature of the first named lead bath and means for guiding the wire through said baths in a substantially straight line below the surface of the lead in each lead bath.

1,476,449. ELEVATOR-HATCHWAY GATE. MATHEW F. KEVLIN, Springfield, Vt. Filed Nov. 19, 1920. Serial No. 425,168. 6 Claims. (Cl. 187—62.)

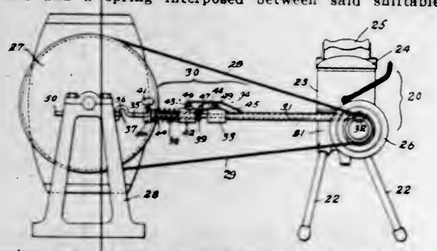


4. In elevator-hatchway gate devices, the combination with a hatch-door which opens and closes as the elevator-car passes, a vertically-movable gate for the hatchway, and a rocker rocking in unison with the opening and closing of the hatch-door, of coupling means whereby said gate may be raised as well as lowered automatically by the rocker as the latter rocks, said coupling means adjustable to permit the gate to remain at rest while the rocker rocks idly during the rise of the car, and adapted to couple the gate, after being upraised by other means, with the rocker so as to lower the gate automatically as the car moves away from the hatchway.

1,476,450. POWER STAND. RALPH L. LEE, Dayton, Ohio, assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed June 19, 1919. Serial No. 305,409. 20 Claims. (Cl. 64—52.)

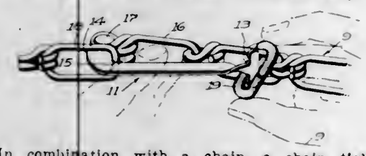
7. In a spacing and belt tightening device, the combination with a tube adapted to be attached to a machine; of a rod slidably mounted in the tube and adapted to be attached to a second machine; a sleeve slidably mounted on said rod and provided with means

whereby said sleeve may be adjustably secured upon said rod; a shiftable member slidably mounted on said sleeve and a spring interposed between said shiftable



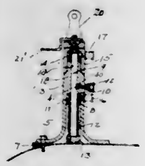
member and a portion of said sleeve; and toggle links connecting the tube and the movable member, one of said links being provided with an operating handle.

1,476,451. CHAIN FASTENER. FRANK C. LE MESURIER and FRANK E. STAHL, Tonawanda, N. Y., assignors to The Columbus McKinnon Chain Co., Columbus, Ohio, a Corporation of Ohio. Filed May 12, 1923. Serial No. 638,634. 5 Claims. (Cl. 24—69.)



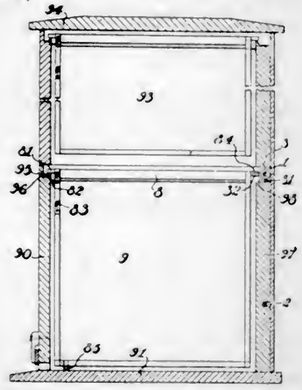
1. In combination with a chain, a chain tightener and fastener comprising, a lever consisting of an elongated shank adapted to be inserted through a link and having a transversely extending head at one end and an offset portion at its other end forming a link receiving notch at the juncture of the shank and offset portion, means for securing the offset portion of the lever to a chain, and an elongated ring having one end looped about one of the lateral sides of a link of the chain with its opposite end extending outwardly from the link and free to swing transversely to the direction in which the chain extends and adapted to be slipped over said head and engaged with the lever shank upon swinging the ring so that its longitudinal axis extends in the direction in which the head extends.

1,476,452. SWINGING HEADLIGHTS FOR AUTOMOBILES. CLARENCE L. LOVERING, Cleveland, Ohio. Filed Apr. 5, 1921. Serial No. 458,806. 1 Claim. (Cl. 240—62.)



In an apparatus of the character described, the combination of a post provided with lateral extensions at its end for connecting with the car frame, said post provided at its lower end with a closed recess of substantial vertical dimension, and at its upper end with a constricted channel, a lamp supporting shaft pivotally mounted in said post, a thrust bearing for said shaft at the upper end of said recess, a second thrust bearing for said shaft above said constricted channel, a tubular member enclosing said second thrust bearing and telescoping said post a substantial distance, and a coil spring for maintaining said shaft and bearings in operative relationship.

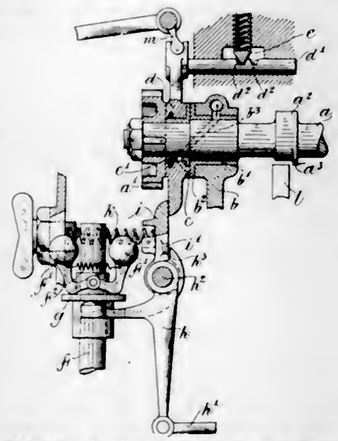
1,476,453. BEEHIVE. HERBERT MCKAY, Monroe, Wash. Filed June 26, 1922. Serial No. 570,929. 7 Claims. (Cl. 6—2.)



1. In a beehive, in combination, a removable back wall, a plurality of frames, a support for the front ends thereof, a second support extending transversely across the rear opening and elevated above the floor sufficiently to permit frames to pass therebeneath, and individual frame supports for supporting each frame from said second support to permit its endwise withdrawal therefrom and from the first support independently of the other frames when said back wall is removed.

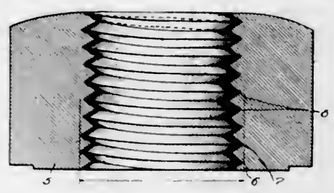
7. In a beehive having an integral front wall and a removable rear wall, in combination, a plurality of frames slidable thereinto from the rear to contact with the front wall, a transversely extending bar, a forwardly facing hook carried by the rear end of each frame and engageable with said bar to support this end of the frame, and a spacer rib upon the inside of said rear wall engageable with the rear ends of all of said frames to prevent rearward movement thereof.

1,476,454. GOVERNOR CAM-SHAFT BRAKE. KEITH R. MANVILLE, Brooklyn, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 7, 1922. Serial No. 605,389. 5 Claims. (Cl. 188—83.)



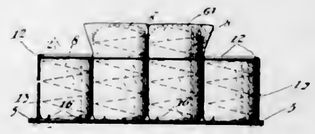
1. A brake for a cam shaft including a drum and a brake shoe operatively disposed to effect a braking action on the shaft, a spring to set up a braking pressure between the parts and a governor to relieve the braking pressure of the spring at higher speeds of the cam shaft.

1,476,455. THREADED STRUCTURE. CLIFFORD P. MARYE, Chicago, Ill., assignor to Marye Safety Nut Corporation, a Corporation of Illinois. Original application filed Feb. 1, 1919, Serial No. 274,447. Divided and this application filed Feb. 26, 1921. Serial No. 447,935. 5 Claims. (Cl. 151—21.)



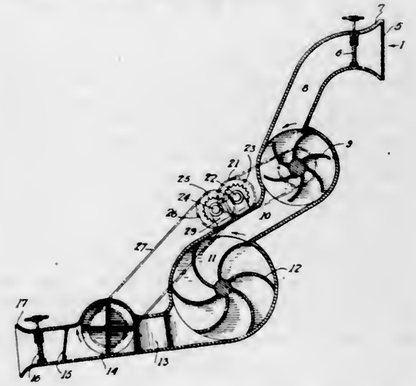
1. A self-locking thread having parallel convolutions of continuously varying inclination and which constitute a continuous helix.

1,476,456. SPRING SEAT CUSHION. CHARLES C. MEUTSCH, Buffalo, N. Y. Filed May 5, 1919, Serial No. 294,854. Renewed Apr. 28, 1923. 3 Claims. (Cl. 5—13.)



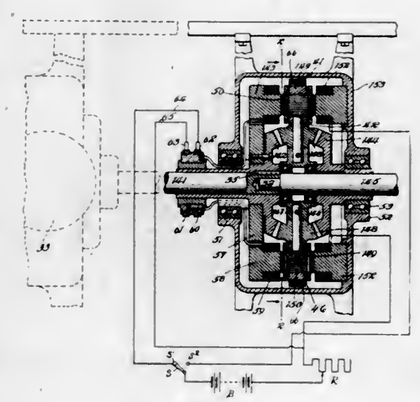
3. A spring cushion construction, comprising a series of upright spring containers, and a spring for each container the centrally located springs of which are normally longer than their surrounding springs, and means for compressing said longer springs to a greater degree of compression than the shorter springs for maintaining their ends in substantially the same plane as that of the ends of the surrounding springs.

1,476,457. WATER-POWER WHEEL. WILLIAM MILLER, New York, N. Y. Filed June 22, 1922. Serial No. 570,070. 6 Claims. (Cl. 253—22.)



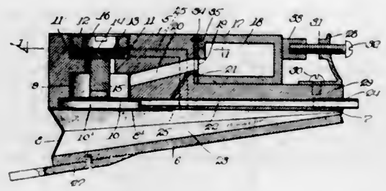
1. Means for controlling the discharge of water from a water wheel, which consists of a primary wheel and a secondary wheel, and a movable gate operated by said secondary wheel and adapted to retain or discharge the water from the discharge side of the primary wheel.

1,476,458. POWER TRANSMISSION. HOWARD J. MURRAY, New York, N. Y. Original application filed July 11, 1916, Serial No. 108,587. Divided and this application filed Apr. 15, 1919. Serial No. 290,153. 10 Claims. (Cl. 172—239.)



1. In a device of the class described, the combination with a pair of shafts, and a driving connection therebetween, of an electrically energized control mechanism including a pair of magnetic structures each providing a flux path, one of said structures fixed in place and the other mounted on one of the shafts to rotatte therewith, a single inductor for said structures carried by the driving connection, and operatively connected to the other shaft and free to move relative to both shafts, and means for producing a magnetic flux selectively in either structure.

1,476,459. PNEUMATIC PLAYER ACTION FOR PIANOS. PETER OESTERREICHER, Chicago, Ill. Filed Sept. 15, 1921. Serial No. 500,891. 2 Claims. (Cl. 84—55.)

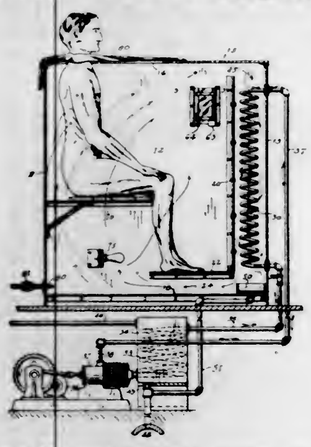


2. A pneumatic action having an aperture thru a vertical wall and a wind chest having a registering aperture thru a vertical wall in combination with a horizontally disposed dowel pin to hold the apertures in register; a resilient bracket, and a screw cooperating therewith and adjustable in the bracket to clamp the action and chest together.

1,476,460. THERAPEUTIC CABINET. HENRY C. OSBORN, Cleveland, Ohio. Filed Nov. 4, 1920. Serial No. 421,623. 20 Claims. (Cl. 4—13.)

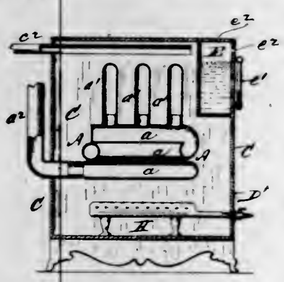
1. The combination, of a chamber having heat transmitting walls and adapted to substantially house a

patient, and means for freezing moisture in the air within the chamber to reduce its humidity, whereby the



humidity may be altered without materially altering the temperature in the cabinet.

1,476,461. AIR HEATING AND IMPREGNATING APPARATUS. ORAZIO PASCALE, West New York, N. J. Filed Nov. 16, 1922. Serial No. 601,419. 2 Claims. (Cl. 126—90.)



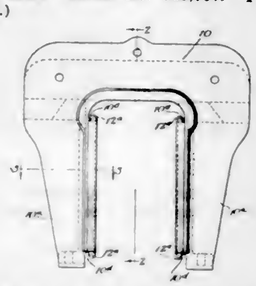
1. A device of the character described, comprising a casing, a heating element supported on the bottom thereof, an air inlet pipe extended into said casing, and an air coil supported in the casing by said inlet pipe and provided with stand pipes mounted directly thereon and disposed within said casing, the casing having a wall provided with openings with which said stand pipes communicate, said stand pipes being telescopically and detachably supported on the upper member of said air coil.

1,476,462. GEM SETTING. JOSEF PEJCHAR, Brooklyn, N. Y. Filed Feb. 9, 1921. Serial No. 443,508. 2 Claims. (Cl. 63—26.)



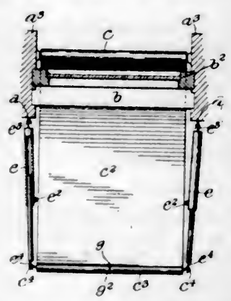
1. A device of the character described, comprising a plurality of units each made of a plate-like body portion, a plurality of stone-holding fingers integral with said body portion and extending from its outer edge on one side or face of said body portion, and holding members likewise integral with said body portion and extending from points of its outer edge between the attached ends of said fingers, on the opposite face of said body portion, said members being bent to a loop formation toward a point located opposite the center of the body portion, and links for connecting the loop-formation of adjacent units.

1,476,463. PEDESTAL AND WEAR PLATE FOR RAILWAY CARS. EDWARD POSSON, Chicago, Ill. Filed Mar. 22, 1922. Serial No. 545,707. 1 Claim. (Cl. 105—225.)



In combination, a pedestal having depending jaws, said jaws being provided with ribs, said ribs being undercut at their upper and lower extremities, and wear plates mounted on said ribs and having portions bent over and engaging the undercut extremities of said ribs.

1,476,464. COMBINED WINDOW SHADE AND AWNING. EILER POULSEN, New York, N. Y. Filed Aug. 30, 1921. Serial No. 496,861. 3 Claims. (Cl. 156—44.)



3. A combination window shade and awning for windows comprising a shade roller on which is mounted a shade, said shade being adapted to be passed outwardly through a window opening over the top of the window, and provided at its free edge portion with a transverse rod, attaching devices on the ends of said rod, attaching devices spaced vertically on the outer faces of the side members of the window frame, arms adapted to be detachably mounted in connection with the attaching devices on said side members and on the ends of said shade rod, the attaching device at each end of the rod being adapted for direct connection with any one of the attaching devices on the corresponding side of the window frame, and one of said arms being detached from one end of the shade rod in coupling the attaching device at said end of the rod with one of the attaching devices on the window frame to support said rod at an angular position to said window frame.

1,476,465. CHAIN ATTACHMENT. HERMAN A. RABEY, Chicago, Ill. Filed Jan. 26, 1921. Serial No. 439,945. 4 Claims. (Cl. 24—230.5.)

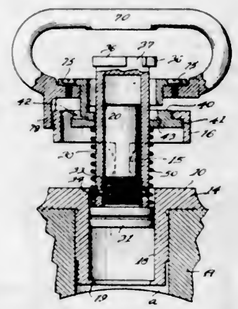
2. As a new article of manufacture a nonskid tire chain attachment formed from a plurality of portions of chain, said portions separably joined together by means of a

plurality of members each comprising a link shaped in the form of an open loop and having at its ends oppo-



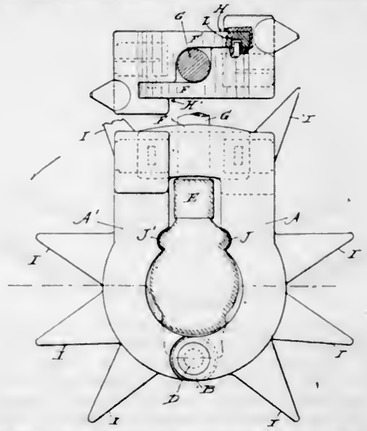
sitely facing hook members, said hook members facing inwardly toward the closed side of said loop and being permanently spaced apart.

1,476,466. LUBRICATOR. FRANK M. ROBY, Cleveland, Ohio. Filed Apr. 6, 1922. Serial No. 550,096. 31 Claims. (Cl. 184—46.)



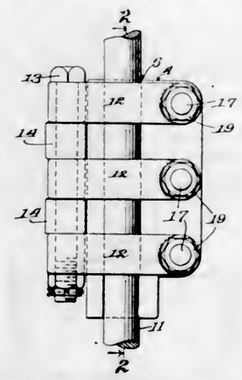
10. In a lubricator, a body adapted to be secured to a part to be lubricated and having a lubricant receptacle, a tubular hammer casing containing a loose hammer and closed at its upper and lower ends, said casing occupying the body, a ring embracing the casing, the casing having a projection above the ring limiting the outward movement of the ring and having a head at its lower end, a helical compression spring surrounding the casing and compressed between said head and said ring, the ring and body having coacting arcuately separated lugs adapted to be brought into engagement by longitudinal movement and independent rotative movement of the ring, and one of said members having longitudinal lugs to prevent further rotative movement of the ring after the first mentioned lugs have come into engagement.

1,476,467. LOCK FOR AUTOMOBILE WHEELS. ALBERT W. SAEGESSER, Granite City, Ill. Filed Aug. 4, 1919. Serial No. 315,312. 1 Claim. (Cl. 70—90.)



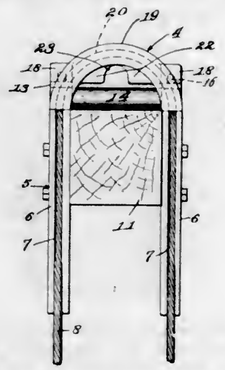
A device of the character described comprising two members hinged together at their outer ends and curved to embrace the rim and tire casing of a wheel, and having on the inner ends of each member a tongue projecting past the wheel spoke to the other side of the wheel, and a notch in each member on the opposite side of the spoke circumferentially, adapted to respectively interlock and embrace the wheel spoke, and locking means for each tongue, substantially as described.

1,476,468. GRIP FOR POLISH RODS AND THE LIKE. SUMNER B. SARGENT, Los Angeles, Calif. Filed Oct. 3, 1922. Serial No. 592,081. 5 Claims. (Cl. 24—132.)



1. In a grip for polish rods and the like, the combination of a body having a longitudinally extending channel, a plurality of channeled jaws movably connected at one end thereof with the body and extending transversely of the body channel, and means to independently force the other end of each jaw toward the body.

1,476,469. POLISH-ROD ADJUSTER HEAD. SUMNER B. SARGENT, Los Angeles, Calif. Filed Oct. 3, 1922. Serial No. 592,082. 5 Claims. (Cl. 74—5.)

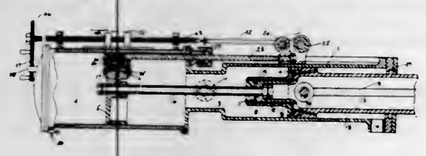


4. In a polish rod adjuster head, a section adapted to be secured to an operating member, and a second section having a cable groove and detachably engaging the first section.

1,476,470. ENGINE REVERSE GEAR. EUGENE LEVERING SCHELLENS, Groton, Conn. Filed Nov. 5, 1919. Serial No. 335,943. 5 Claims. (Cl. 121—41.)

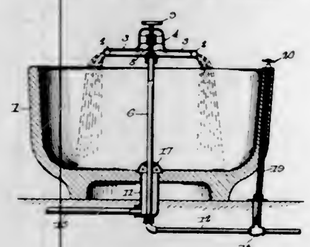
2. In an engine reverse gear, a cylinder having a reduced portion, a piston fitting the reduced portion, a piston fitting the larger portion, a hollow rod, joining said pistons and spacing them to form an expansion chamber, a reach rod secured to the smaller piston, a valve mecha-

nism mounted in said larger piston and controlling a communicating passage therethrough and having a seat with ports connected with said hollow rod and the expansion



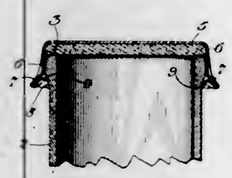
chamber beyond said fluid chamber, a valve on said seat, a yoke engaging said valve and a stem from said yoke, and a hand operated member connected with said stem.

1,476,471. LAVATORY. LOUIS SCHLESINGER, Milwaukee, Wis., assignor to Bradley Wash-Fountain Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 25, 1920. Serial No. 419,164. 4 Claims. (Cl. 4—1.)



1. In a lavatory the combination of a basin having a waste outlet from the lower part thereof, and a fountain located at a distance above the bottom and waste outlet of the basin and having an annular discharge formed to direct water therefrom outwardly and downwardly and cause it to fall in a shower of associated streams through a clear space accessible to users between the fountain and the wall of the basin.

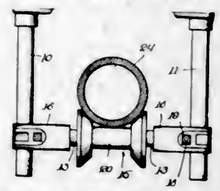
1,476,472. CRIMPED CAP. JAMES STERLING B. SMITH, Brooklyn, N. Y. Filed July 12, 1922. Serial No. 574,456. 9 Claims. (Cl. 215—35.)



1. A crimped preformed metal cap constructed of relatively thin sheet metal and comprising a top and a depending flange bent upon itself at its lower edge to firmly and continuously engage or hug, both before and subsequent to the application to the container, an adjacent wall, thereby to form a reinforcing hemmed edge, said edge and flange being crimped.

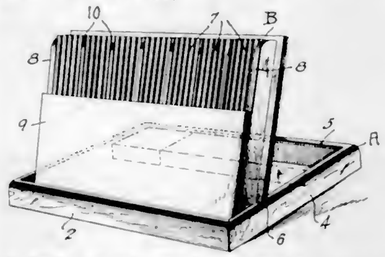
1,476,473. PIPE HANGER. HENRY W. SKINNER, Waukegan, Ill. Filed Apr. 20, 1921. Serial No. 462,873. 1 Claim. (Cl. 248—31.)

A pipe hanger clamp comprising two like pipe clamping members for clamping and holding two pipes at right angles to each other, each member having two sharp, tapering nibs, one for each pipe, to bite into each pipe and to produce indentations therein, extending transversely of the pipes, to prevent their axial movements in the clamp and a screw bolt passing thru said clamping mem-



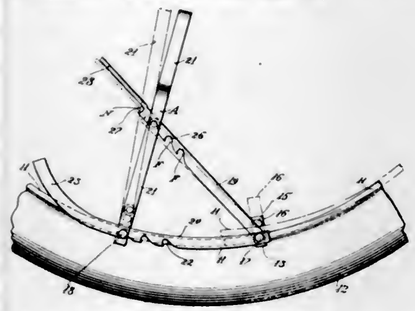
bers between the two pairs of nibs, to indent the nibs into both pipes when said members are drawn towards each other by the bolt.

1,476,474. SHIPPING CASE AND DISPLAY STAND. ALFRED C. STAHFEST, New York, N. Y., assignor to Eberhard Faber Pencil Company, a Corporation of New York. Filed Jan. 16, 1923. Serial No. 612,905. 3 Claims. (Cl. 206—44.)



1. A device of the character described, comprising a box having an open top, a bodily removable cover adapted to overlie the upper edges of said box to close said open top, said box being provided on the inner sides of opposite side walls thereof with grooves to slidably receive the edges of said cover to support the cover edgewise in upright position, and means on one side of said cover to support an article so that when said cover is in closing position said article is enclosed by said box and when said cover is in upright position said article is displayed.

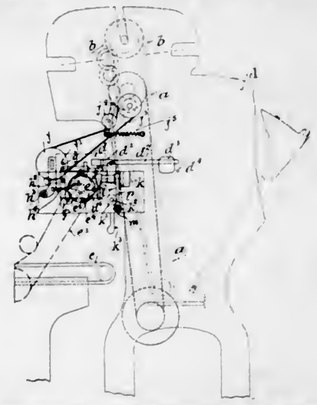
1,476,475. AUTOMOBILE TIRE TOOL. FERDINAND THOMAS, New York, N. Y. Filed Apr. 8, 1921. Serial No. 459,637. 2 Claims. (Cl. 157—1.)



1. A tire tool comprising a plurality of contractible clamping plates adapted for mounting on a tire rim adjacent the split ends thereof; a lever pivotally mounted on one of said plates; a plurality of bars pivotally mounted on the other of said plates for engagement with said lever for maintaining said plates in position; pull rods pivotally mounted on said the last mentioned plates for engaging said lever for pulling the clamping plate to which the rods are attached toward the clamping

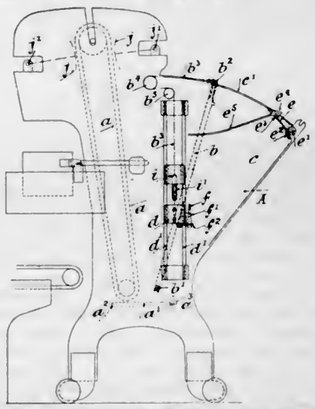
plate upon which said lever is mounted; and a plurality of sets of engaging members mounted on said lever in spaced relation for operative connection by said rods, said engaging members being so arranged that when one set is connected with said rods one end of said tire rim will be moved radially toward the center of said rim, and when said rods are engaged with the other members, said end will be moved annularly.

1,476,476. AUTOMATIC FEEDER FOR CARDING ENGINES. JOHN WILLIAM WALKER, Batley, England, assignor of one-half to Platt Brothers and Company Limited, Oldham, England. Filed June 6, 1922. Serial No. 566,355. 9 Claims. (Cl. 19—68.)



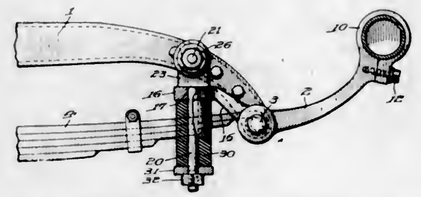
1. An automatic feeding machine having a hopper, a spiked lifting lattice, a single weighing box, a movable bottom therefor, a catch on the box bottom, a weighted lever on said box, a fulcrum therefor, a slidable bar connected to said lever, guides for said bar, a projection on said bar, a revolving cam plate adjacent to the weighing box, means for driving said cam plate, and a finger on the cam plate which periodically encounters the projection on the bar.

1,476,477. MOVABLE BACK FOR APRON FEEDERS. JOHN WILLIAM WALKER, Batley, England, assignor of one-half to Platt Brothers and Company Limited, Oldham, Lancaster, England. Filed June 6, 1922. Serial No. 566,356. 3 Claims. (Cl. 19—78.)



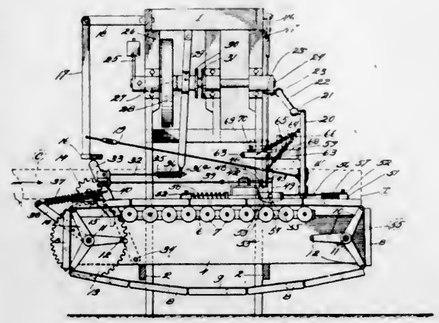
2. In automatic feeding machines for feeding fibrous material, a lifting lattice, a movable back, pivotal supports therefor, movable weights, connections between the movable back and the movable weights, weight boxes, lever catches on the weight boxes, and means for cutting out part of the weight as the back moves inwards and the hopper empties for the purposes set forth.

1,476,478. AUTOMOBILE BUFFER. ASTLEY W. WHARTON, Churchville, Pa. Filed Oct. 20, 1922. Serial No. 595,756. 2 Claims. (Cl. 293—55.)



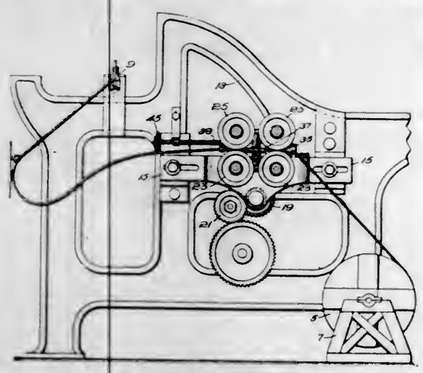
1. In a buffer for vehicles, the combination of levers pivoted intermediate their ends to the opposite sides of such vehicles either at the front or rear end thereof, the inner ends of which are provided with openings therethrough, a buffer bar carried upon the outer ends of the said levers, vertically extending bolts supported by the vehicle frame and extending through said openings, and rubber sleeves secured on said bolts underneath the said inner ends and pressing upwardly against the same.

1,476,479. AUTOMATIC TILE-CUTTING TABLE. NEAL ALLEN, Pittsburg, Kans., assignor of two-thirds to J. F. Denison, Coffeyville, Kans. Filed July 25, 1921. Serial No. 487,336. 7 Claims. (Cl. 25—111.)



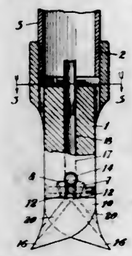
1. In a machine of the character described, the combination of a table supporting and moving at the same speed as a tile column, a cutter supported to slide alongside and parallel with the tile column, and adapted for oscillation, means to interlock the cutter to the table to cause advance sliding movement of the former, a swing arm, means actuated by the advance movement of the cutter, to operate said swing arm, a shaft, a drive wheel journaled thereon, clutch mechanism, a spring-retracted lever to effect engagement of the clutch mechanism and thereby interlock said wheel and shaft to rotate the latter, a crank arm on said shaft, connections to cause the crank arm to rock the cutter down through the tile column and reverse such action during the advance of the cutter, connections actuated by said crank arm for unlocking the cutter from the table and for advancing said lever to disengage said clutch mechanism, means for operating the swing arm to slide the cutter back to its initial position, means for locking the lever in its advanced position until after the cutter has attained its initial position, and means whereby the table shall unlock the lever to permit it to effect reengagement of said clutch mechanism.

1,476,480. FILLING-CONTROL MECHANISM FOR LOOMS. GEORGE B. AMBLER, Leominster, Mass., assignor to F. A. Whitney Carriage Company, Leominster, Mass., a Corporation of Massachusetts. Filed Feb. 10, 1922. Serial No. 535,476. 9 Claims. (Cl. 139—127.)



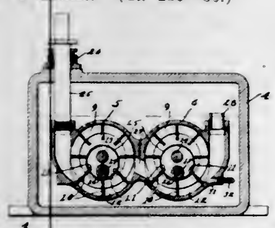
8. A strand feeding device comprising a driven wheel and arm pivoted on an axis transverse to that of the driven wheel, a cooperating wheel journalled on the arm and means acting on the arm normally to press the wheels together.

1,476,481. DRILL BIT. SAMUEL F. BASHARA and JOSEPH F. BASHARA, Houston, Tex. Filed Jan. 27, 1920. Serial No. 354,388. 7 Claims. (Cl. 255—61.)



1. A drill bit including a shank whose upper end has a sleeve provided with an internally threaded socket adapted to receive the end of a drill stem and a blade section provided with cutting blades and detachably secured to the lower end of the shank, the forward sides of the blades being concaved, said bit having water courses through which water is discharged into said concavities near the cutting edges of the blades.

1,476,482. HIGH-VACUA PUMP. REINOLD BERRENBERG, Boston, Mass. Filed Sept. 7, 1921. Serial No. 498,984. 8 Claims. (Cl. 230—30.)

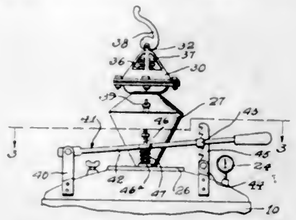


1. A vacuum pump apparatus comprising two rotary air pumps arranged within casings that are connected in tandem by a common tangent partition wall having an opening therethrough forming an outlet for one pump and an inlet for the other, said casings being enclosed in a tank and wholly immersed in oil.

1,476,483. COSMETIC CREAM. KATHERINE S. BORT, Washington, D. C. Filed May 29, 1922. Serial No. 564,589. 2 Claims. (Cl. 167—9.)

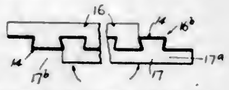
2. A cleansing and cosmetic preparation of a creamy consistency comprising a main body of cosmetic cream and an innocuous coloring matter intimately mixed and incorporated therewith to form a paste of creamy consistency, which can be kneaded and worked harmlessly into the pores of the skin for thoroughly cleansing the pores and at the same time giving to the skin a diffused and natural health-like tint, after substantial removal of the cream in the cleansing operation.

1,476,484. ACETYLENE-GAS GENERATOR. THOMAS LEE BRAMBLETT, Fort Worth, Tex. Filed July 10, 1922. Serial No. 573,831. 5 Claims. (Cl. 48—38.)



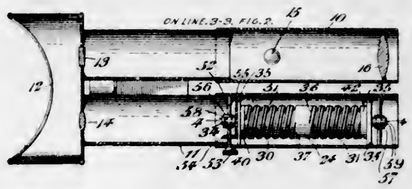
2. An acetylene gas generator including a gas generating chamber having an opening in its upper end, a hopper normally resting upon said chamber and discharging through the opening thereof and into the interior of the chamber, a valve carried by the hopper, and operable to entirely close the passage from the hopper, means detachably engaging the hopper with the gas generating chamber including a two-armed lever between which the lower end of the hopper is disposed, the lower end of the hopper having an enlarged base, springs carried by the said arms and bearing against said base, and means for holding the arms in a depressed position to compress said springs.

1,476,485. BUILDING SECTION. ALEXANDER C. BROWN and HARRY GILLETT, Cleveland, Ohio; said Brown assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio, a Corporation. Filed June 3, 1921. Serial No. 474,733. 4 Claims. (Cl. 108—8.)



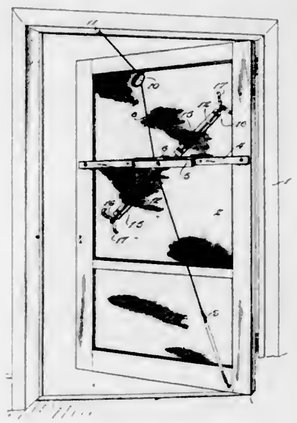
1. As a component of roofs and similar constructions, a preformed building section comprising the combination of a rectangular stiffening member, a rectangular layer of cork mastic so located on and with respect to one face of said member that two adjacent edges of the same coincide with two adjacent edges of the stiffening member, a rectangular layer of cork mastic of the same size as the first named layer, so located on and with respect to the other face of said member that corresponding edges of the same coincide with two other adjacent edges of the stiffening member, said layers being of equal dimensions one with the other, and of such size with respect to said faces, that, when in their described places thereon, the exposed faces and the edges of the layers adjoining the same, will together form rabbeted recesses for interlocking engagements with corresponding recesses in similar building sections when brought together for the purpose.

1,476,486. OPTICAL PYROMETER. RICHARD P. BROWN and CHARLES P. FREY, Philadelphia, Pa., assignors to The Brown Instrument Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 24, 1919. Serial No. 306,410. 5 Claims. (Cl. 88—14.)



1. In an optical pyrometer comprising in combination, a light standard, a rheostat arranged to vary the intensity of said standard, a scale representing temperatures or temperature equivalents having a calibrated relation with respect to said rheostat, said light standard and said scale being simultaneously visible, and means to move said scale and rheostat in synchronism.

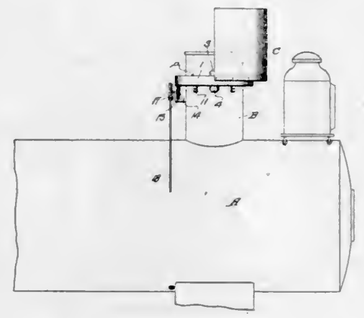
1,476,487. ATTACHMENT FOR SCREEN DOORS. HENRY N. BURNS, Middletown, Ohio. Filed Oct. 18, 1922. Serial No. 595,305. 2 Claims. (Cl. 230—7.)



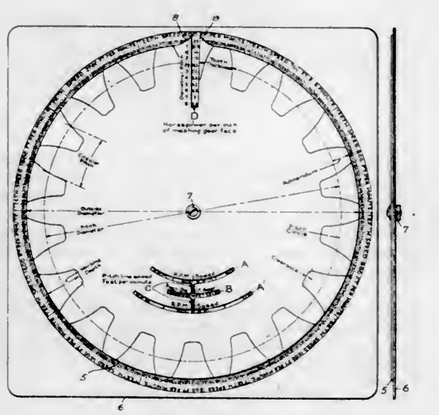
1. The combination with a screen door, of a drum mounted for rotation on the door, means for rotating said drum as the door is opened or closed, radial arms rigidly connected with said drum, flat bars extending longitudinally of said arms and provided adjacent their ends with openings through which the arms pass to secure the bars, and freely fluttering ribbons carried by the outer ends of said arms.

1,476,488. CHIMNEY OR SMOKESTACK VENTILATOR. AUSTIN H. CAMPBELL, Prospect, Pa. Filed Apr. 17, 1922. Serial No. 553,335. 1 Claim. (Cl. 98—22.)

A stack ventilator comprising a rim adapted to be applied to the stack and provided upon its outer face with an outstanding annular flange, a carriage surrounding the rim and provided at its inner face with an annular recess which snugly receives said flange, means mounted on the rim for turning the carriage upon the rim, a frame carried by the carriage and having portions spaced from the edge of the carriage and a semi-cylindrical shield mounted upon said spaced portions of the frame.



1,476,489. CALCULATOR FOR GEARS. JAMES H. CARVER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 12, 1922. Serial No. 528,751. 6 Claims. (Cl. 235—88.)

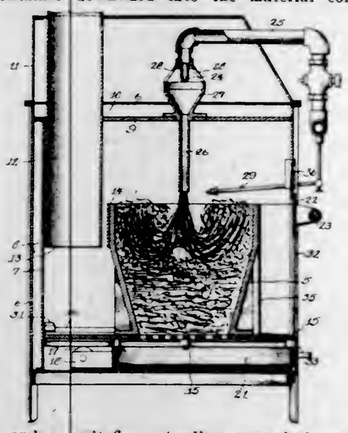


1. A calculator for gears comprising two relatively movable members pivoted together, one of said members having arcuate slots therein adapted to register with gear data on the other member, a radial slot on the outer edge of said first member, and pointers adjacent said slot.

1,476,490. INCINERATOR. CHARLES C. CHRISTENSEN and ROBERT MCCALPIN, Chicago, Ill. Filed Dec. 2, 1922. Serial No. 604,478. 3 Claims. (Cl. 110—18.)

1. In an incinerator, a container for refuse, a housing enclosing the top of said container, a burner mounted above said container for projecting a flame downward on the refuse in said container in order to completely consume the refuse contained therein, an opening in the

front of said housing for passing air over the top of said container downward into the material contained



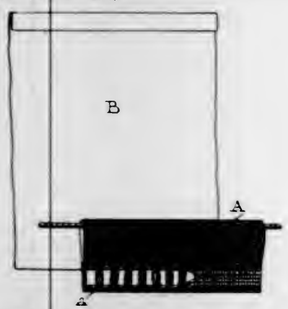
therein, and an exit flue extending upward through said housing the lower end of said flue terminating below and outside of the upper edge of said container.

1,476,491. THREADLESS BOLT. JAMES G. COLES, Hopewell, Pa., assignor of one-third to Charles H. Rightnour and one-third to William E. Scutchall, both of Hopewell, Pa. Filed Oct. 7, 1922. Serial No. 593,033. 2 Claims. (Cl. 85—5.)



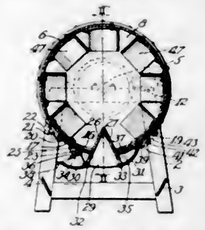
1. In a device of the class described, a bolt having a shank annularly grooved at one end thereof defining spaced annular shoulders, a sectional nut having annular ribs on the inner face thereof to be received in the grooves of the bolt shank, and being of constant diameter throughout its length and a locking collar frictionally enclosing the nut sections.

1,476,492. SWEATBAND FOR HATS. WILLIAM WELLS COLLYER, Stockport, England, assignor to The Hat Manufacturers' Supply Company, Limited, Stockport, England. Filed Sept. 17, 1921. Serial No. 501,330. 3 Claims. (Cl. 2—32.)



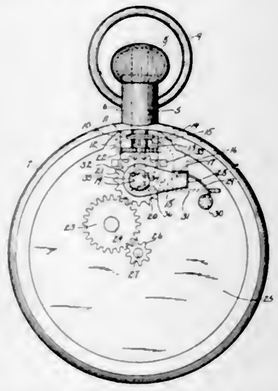
1. The method of manufacturing hat leathers or sweat bands having a perforated openwork tape along one edge and a looped fabric containing a cord which consists in feeding a plain strip of fabric, a leather band and cord, simultaneously into a sewing machine folding the fabric strip into a loop to enclose the cord as they are fed into the machine, and forming the openwork holes in the fabric by the same operation as it is stitched to the leather band, the binding stitches at one side of the perforations forming the double function of binding the perforations and stitching the fabric to the leather.

1,476,493. MIXER AND FEEDER. RALPH L. COOK, Mooresville, Ind. Filed Dec. 30, 1922. Serial No. 609,839. 6 Claims. (Cl. 119—52.)



1. A mixer and feeder including a rotary vessel having a shell provided with a slot and a door connected to the shell and having a feed-trough hinged thereto and adapted to cover or uncover the slot.

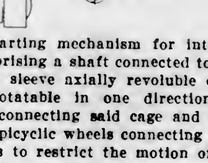
1,476,494. STEM-WINDING AND STEM-SETTING WATCH. NATHAN S. COOPER and SAUL COOPER, New Haven, Conn. Filed Jan. 24, 1923. Serial No. 614,552. 1 Claim. (Cl. 58—68.)



In a stem-winding and stem-setting watch, the combination with a movement-plate thereof having a clearance-opening, of elements of a winding-and-setting mechanism, a winding-and-setting stem, a doubly-beveled, phase-sustaining collar thereupon, a pivotal, phase-sustaining lever located upon the outer face of the said movement-plate, and having an inwardly-extending reach passing through the said clearance-opening, and a doubly-beveled arm on the said reach for co-action with the bevels of the said collar, whereby the upper bevel of the said arm co-acts with the inner bevel of the collar, and vice versa; and a spring for maintaining the bevels of the arm in engagement with the bevels of the collar.

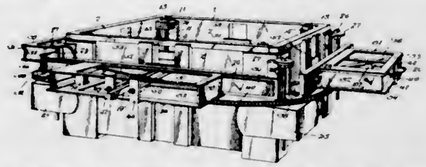
1,476,495. ENVELOPE. EMMA F. CROSS, Coronado, Calif. Filed Dec. 12, 1922. Serial No. 606,401. 3 Claims. (Cl. 229—80.)

1. An envelope comprising a back, a sealing flap and front at opposite longitudinal edge portions of the back, flaps at opposite ends of the back, the one being long and the other short and constituting a sectional front,



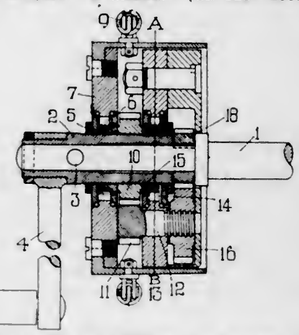
and tabs at opposite sides of the short end flap to fold over opposite edges of the envelope and against the back thereof to which they are attached.

1,476,496. BRICKMAKING MACHINE. ROY P. M. DAVIS, Mount Union, Pa. Filed Apr. 18, 1922. Serial No. 554,561. 8 Claims. (Cl. 25—101.)



1. A mold for making brick comprising a frame, means in said frame for supporting the bottom liner plate of the mold, means for vertically adjusting said aforementioned means, means for supporting the side and end liner plates of the mold, and means for causing said side and end liner plates to move inwardly towards or outwardly away from each other, and said frame being movable to inverted position.

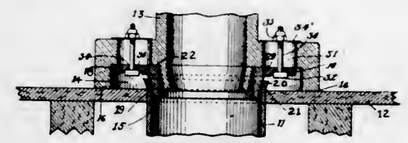
1,476,497. HAND STARTING DEVICE FOR INTERNAL-COMBUSTION ENGINES. JAMES ARTHUR DOWNHAM, Huddersfield, England. Filed July 11, 1922. Serial No. 574,221. 2 Claims. (Cl. 123—185.)



1. A safety starting mechanism for internal combustion engines comprising a shaft connected to the engine, a starting crank, a sleeve axially revoluble on said shaft, a cage freely rotatable in one direction, a train of epicyclic wheels connecting said cage and said sleeve, a second train of epicyclic wheels connecting said cage and said shaft, means to restrict the motion of said cage in one direction and means to prevent the rotating of said sleeve in the opposite direction.

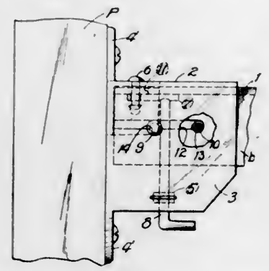
1,476,498. METHOD OF INSTALLING WATER-CLOSET BOWLS. CORNELIUS DWYER, Amsterdam, N. Y. Filed Sept. 22, 1920. Serial No. 411,996. 1 Claim. (Cl. 285—34.)

Means for attaching bowls to soil pipes wherein the upper end of the soil pipe is outwardly flared and projects thru and above an opening in the flooring, an externally tapered nipple permanently secured to the flared end of said soil pipe and extending above the same, a ring threaded to said nipple, and a bowl adapted to be secured to said ring and rest upon the upper edge of said nipple, said bowl having an annular recess of



substantially equal depth surrounding an outlet extension of greater axial length than the depth of said recess, said extension positioned within said nipple, and said ring being of less axial length than the depth of the said recess and wholly positioned therein.

1,476,499. CORNER FASTENER FOR BEDS. WILLIAM J. DUVALL, St. Louis, Mo., assignor to Smith & Davis Mfg. Co., St. Louis, Mo., a Corporation of Missouri. Filed May 7, 1923. Serial No. 637,239. 2 Claims. (Cl. 5—290.)



1. In combination with a bed post and side-rail adapted to be secured thereto, a corner bracket mounted on said post, said bracket comprising a housing, a block movably mounted within the housing adjacent the top wall thereof and in spaced relation therewith, a pin extending into the housing from a side wall thereof, one component of aforesaid rail being insertable between the block and top wall of the housing, the other having a slot for receiving the pin, and means for simultaneously clamping said block against the rail and locking the rail to said pin.

1,476,500. VETERINARY INSTRUMENT. JOSEPH EMONTS, O'Fallon, Mo. Filed June 16, 1920. Serial No. 389,386. 8 Claims. (Cl. 128—223.)



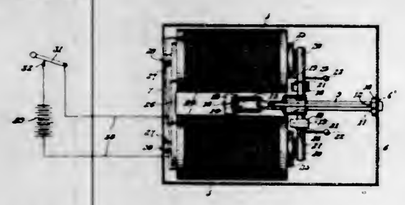
1. A veterinary device, comprising, a frame, means for mounting said frame on the head of the animal, and an elongated instrument guiding tube mounted in said frame and positioned thereby within and along the mouth, said tube being constructed and arranged to receive and guide an instrument.

1,476,501. DOWEL FASTENING. THOMAS F. FERRY, Cleveland, Ohio. Filed Apr. 26, 1922. Serial No. 556,580. 9 Claims. (Cl. 22—110.)



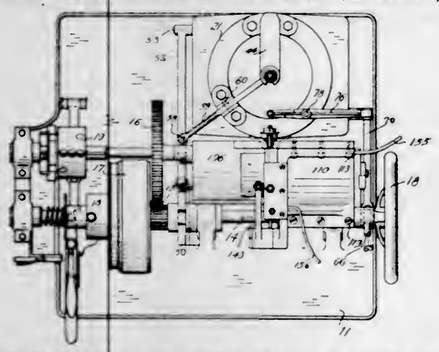
1. A dowel fastening, comprising longitudinally milled male and female members.

1,476,502. BURGLAR ALARM. STEVE FODOR, Orient, Ill. Filed Jan. 6, 1923. Serial No. 611,064. 1 Claim. (Cl. 42—1.)



In a device of the character described, a casing having an opening, a piston in said casing having its barrel projecting through said opening, a bracket secured to said casing for supporting said barrel, a block mounted in said casing for supporting the hand grip of said pistol, perpendicular blocks having slots formed therein secured to said casing on opposite sides of the trigger for said pistol, an armature positioned in said blocks traversing said trigger forwardly thereof for operative engagement therewith, electromagnets positioned on opposite sides of said casing for attracting said armature to operate said trigger, means for energizing said magnets, a circuit closing means associated therewith positioned exteriorly of said casing, and means within said casing for returning said armature to its starting position after having operated said trigger.

1,476,503. MACHINE FOR CASTING COLUMN RULES. HARRY C. GAMMETER, Cleveland Heights, Ohio, assignor to The American Multigraph Company, Clevelanw, Ohio, a Corporation of Ohio. Filed Nov. 27, 1920. Serial No. 426,707. 66 Claims. (Cl. 22—57.)



1. In a column rule casting machine, a curved mold member forming the upper face of the mold, a pair of stationary mold members, one on either side of said curved member, and a curved mold block beneath said members and co-operating therewith to form a mold cavity.

1,476,504. GARMENT SUPPORT. ISABEL LIKENS GATES, Washington, D. C. Filed Mar. 5, 1923. Serial No. 622,946. 7 Claims. (Cl. 241—12.)



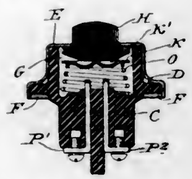
1. In combination with a garment adapted to encircle a wearer's body, a continuous support having a portion threaded thru and slidably engaging a portion of the garment and a plurality of portions adapted to extend over each of the wearer's shoulders with the arm-pit portions of said garment free of said support.

1,476,505. GARMENT SUPPORT. ISABEL LIKENS GATES, Washington, D. C. Filed Mar. 21, 1923. Serial No. 626,592. 5 Claims. (Cl. 241—12.)



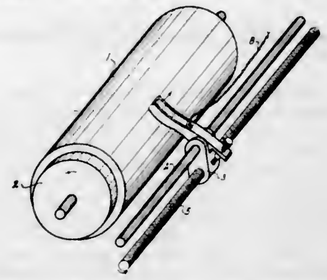
1. In combination with a garment having a front portion, a back portion and arm-pit portions, a continuous support having a section threaded through and slidably engaging one of said portions, sections threaded through and slidably engaging said arm-pit portions and one or more sections adapted to extend across each of the wearer's shoulders with all of the parts of said shoulder sections on one side of the wearer's body in parallel planes when the garment is in worn condition.

1,476,506. PUSH-BUTTON SWITCH. GUY T. GRIFFIN, Albany, N. Y., assignor to Consolidated Car-Heating Company, Albany, N. Y., a Corporation of West Virginia. Filed Nov. 12, 1919. Serial No. 337,504. 5 Claims. (Cl. 200—159.)



1. A push-button switch comprising a body of insulating material provided with stationary contacts, an operating button, and a spring pressed contact disk having one face provided with an upstanding lug bearing against the button, the other face of said disk having a convexed surface positioned to engage said contacts, whereby the disc will have a rolling and rubbing action on the ends of said stationary contacts as well as an equalized contact pressure thereon.

1,476,507. PROCESS FOR RESURFACING TALKING-MACHINE RECORDS. EDWARD TROY HAILS, Montgomery, Ala. Filed Oct. 21, 1922. Serial No. 596,163. 3 Claims. (Cl. 18—48.3.)



1. The hereindescribed process for resurfacing a talking machine record, which consists in subjecting the rapidly rotating surface of the record to a heat and pressure treatment until its irregularities have been ironed out.

1,476,508. SURGICAL INSTRUMENT FOR CHIROPODISTS AND THE LIKE. WALTER HART, Ramsgate, England. Filed Sept. 13, 1922. Serial No. 587,967. 1 Claim. (Cl. 30—23.)



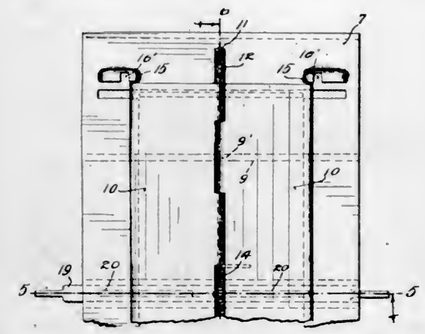
A surgical instrument for cutting corns or callous, comprising an elongated strip of sheet metal, having one end turned at right angles and curved in the shape of a gouge, a slidable guard with vertical guides, having the upper end parallel to the gouge and supported immediately below the cutting blade by a tapered tongue provided with an indent which springs into a recess in the handle.

1,476,509. MOLDING. EARL H. HART, Royal Oak, Mich. Filed Oct. 4, 1922. Serial No. 592,230. 2 Claims. (Cl. 296—135.)



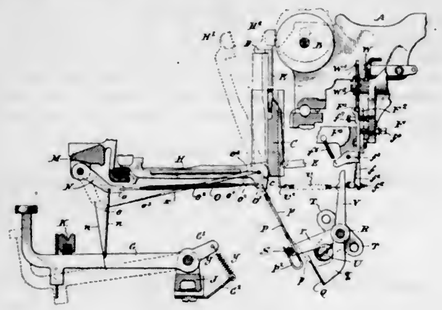
1. In a structure as specified, the combination of a support, a long and narrow channel-like tenon strip arranged to lie with its back to the support and the upstanding walls forming deformable ribs, means passing through the back of the tenon strip for securing the same to the support, and a molding strip having under-cut recesses shaped to direct the deformable ribs into the under-cut portions when the molding strip is pressed on to the tenon strip whereby the two strips are locked together.

1,476,510. VALVE-ACTUATING MECHANISM. JAMES B. HASKELL, Longville, Minn. Filed Feb. 17, 1923. Serial No. 619,775. 6 Claims. (Cl. 268—8.)



1. A vehicle-operated actuating mechanism of the kind described comprising a pair of connected actuating plates normally held raised in reversely inclined positions but arranged to be depressed and to be slid in either of two directions according to the direction of travel of the vehicle wheel, and an actuating connection arranged to be moved from an intermediate position in the one direction or the other according to the direction in which the depressed plates are slid from normal.

1,476,511. TYPEWRITING MACHINE. EDWARD B. HESS, Manhattan Beach, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 12, 1921. Serial No. 514,756. 10 Claims. (Cl. 197—30.)

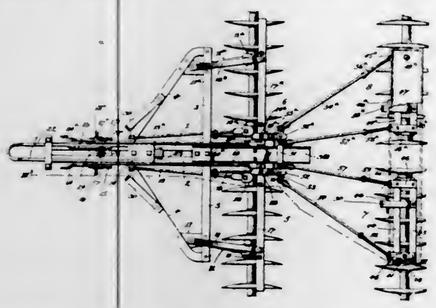


1. In a typewriting machine the combination with a key lever and a type bar of connections therebetween, including a member of variable length, for moving the type bar, by the full operative depression of the key, to a predetermined position in front of the platen, the further movement of the type bar to the platen being caused by the momentum thereof, during which movement the key may receive a further depression due to the variation in length of said member.

1,476,512. HARROW. GEORGE C. HESTON, Mansfield, Ohio, assignor to Roderick Lean Manufacturing Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Mar. 20, 1922. Serial No. 545,196. 15 Claims. (Cl. 55—83.)

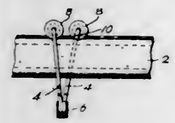
1. In a tandem disk harrow, a pair of front gangs; a pair of rear gangs; means acting under draft applied

to the harrow for placing the gangs in angle; and means, under the control of the operator, for inde-



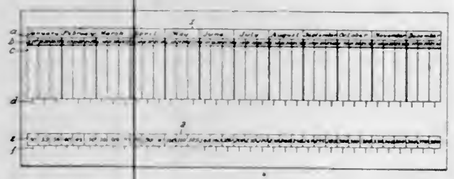
pendently varying the angularity of either or both of said rear gangs with relation to the front gangs and to each other.

1,476,513. CURTAIN RING. SIDNEY C. HILLS, Torrington, Conn., assignor to The Turner & Seymour Manufacturing Company, Torrington, Conn., a Corporation of Connecticut. Filed Oct. 29, 1921. Serial No. 511,483. 3 Claims. (Cl. 156—21.)



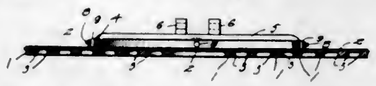
3. A detachable curtain ring for a curtain rod having, in combination, two arms arranged at opposite sides of the rod, flanged rollers mounted on the upper ends of the arms and arranged one behind the other for engagement with the top surface of the rod, and a pivotal connection between the lower ends of the arms having its axis extending longitudinally of the rod to enable the upper ends of the arms to be swung toward and from each other.

1,476,514. COMPUTER. JENS S. HOLM, Cedar Falls, Iowa. Filed June 22, 1922. Serial No. 570,075. 3 Claims. (Cl. 283—1.)



1. A computer of the character described, comprising on a sheet an assemblage of alined like ruled forms respectively inscribed with the successive names of the months, each form being subdivided into a number of vertical columnar spaces with each space inscribed at the head with numerals denoting a certain subdivision of the month, and each columnar space being appropriated for the entry of a weight; and on said sheet in juxtaposition another assemblage of horizontally alined like separated spaces on which are inscribed permanently numbers denoting successively increasing weights, these permanent numbers relating to numbers to be inscribed on the columnar spaces of the first-mentioned assemblage.

1,476,515. GRINDING WHEEL. BERNARD F. HOWARD, Morrisville, Vt. Filed May 10, 1921. Serial No. 468,268. 1 Claim. (Cl. 51—209.)



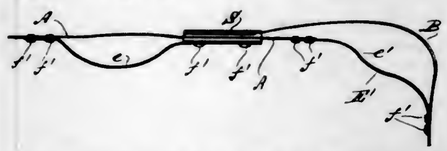
A grinding wheel having a plurality of continuous unbroken rings in spaced relation to provide slots between them open at the top, radial equidistantly spaced tie bars integral with said rings and disposed completely above their upper surfaces, a plurality of lugs integral with the bars and spaced equi-distantly from and about the axes of the rings for attachment to a driver, whereby multiple-point contact is effected with said driver to exert uniform pressure on the wheel, and both side walls of each slot extending upwardly and laterally toward each other to minimize upward creeping of abrasive material.

1,476,516. PROCESS OF PRINTING AND MACHINE THEREFOR. RALPH G. JACKSON, Chester, Pa., assignor to Congoleum Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 31, 1919. Serial No. 314,481. 4 Claims. (Cl. 101—199.)



4. A flat block linoleum or like printing machine having its blocks and color spaces of equal width and arranged in groups operatively separated by a distance equal to the width of two blocks or color spaces, and provided with feed mechanism for advancing the material a distance equal to the width of two blocks or color spaces at each feed, substantially as described.

1,476,517. WAISTBELT. DAVID A. JAMES, New York, N. Y. Filed Apr. 17, 1922. Serial No. 553,885. 1 Claim. (Cl. 241—8.)

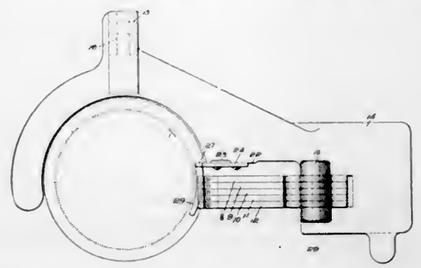


A "telescopic" belt of the character designated, comprising a non-elastic buckle strap, a non-elastic tongue strap, a coupling slide permanently attached to the end of one of said straps and embracing the other strap, an elastic section detachably secured to one of said straps by snap fastenings and detachably secured to said coupling slide by snap fastenings, and another elastic section detachably secured to both of said straps by snap fastenings, said coupling slide being formed in one piece with attachment barbs, and with snap studs, substantially in the manner and for the purpose set forth.

1,476,518. YARN-CONTROLLING MECHANISM FOR SPRING-NEEDLE KNITTING MACHINES. FRANK E. JONES, Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed Apr. 18, 1922. Serial No. 554,842. 14 Claims. (Cl. 66—12.)

1. A circular, spring needle, knitting machine having a circular series of spring needles and a circular series of web holders for holding the web without supporting the in-feeding yarn or sinking it between the needles,

one or more yarn fingers movable into and out of operative position, and means at the outside of the needle circle cooperating with the yarn feeding finger but structurally



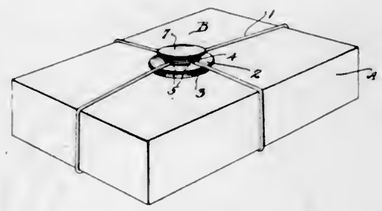
distinct therefrom to hold the yarn against the shanks of the needles at the proper level below the beards thereof a substantially the in-feeding point.

1,476,519. TOOTHBRUSH. WILLIAM KARL and HEINRICH KARL, Jersey City, N. J. Filed Nov. 10, 1917. Serial No. 201,364. 5 Claims. (Cl. 15—159.)



1. In a tooth-brush, a base, bristles set in said base, an elastic, adhesive compound disposed upon said base and imbedding the bristles over a portion of their length between their base portions and their tip ends, said compound serving to support the bristles yieldingly adjacent to their base portions to prevent sharp bending and breakage.

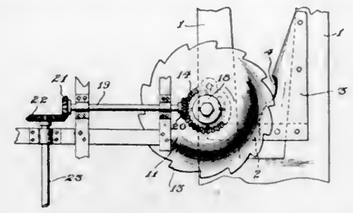
1,476,520. PACKAGE TIE. JOHN A. KAYE, Sault Ste. Marie, Ontario, Canada. Filed Nov. 23, 1922. Serial No. 602,900. 6 Claims. (Cl. 24—18.)



1. In a package tie, the combination with a body portion, of suction means for detachably attaching the body portion to a package, and a string engaging device upon the body portion.

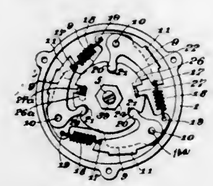
1,476,521. CUTTING MECHANISM FOR HARVESTERS. MATTHEW M. KELL, Tulia, Tex. Filed Aug. 20, 1921. Serial No. 493,888. 2 Claims. (Cl. 56—102.)

1. A cutting mechanism for harvesters comprising in combination a forwardly projecting stationary knife, a vertical spindle spaced laterally from said knife, a hub fitted vertically about said spindle, anti-friction bearings interposed between the ends of the spindle and the end of the hub, a dome-shaped cutting disc fitted concentrically upon said hub and having a portion of its cutting edge overlying the opposed edge of the stationary cutter, a gear ring resting centrally upon the dome-shaped disk



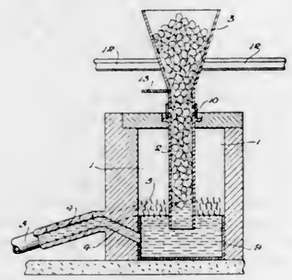
about the hub, means for securing said gear ring and the disc to the hub, and means acting upon said gear ring to rotate the same, the hub and the disc.

1,476,522. IGNITION APPARATUS. ARTHUR ATWATER KENT, Ardmore, Pa. Substitute for or continuation of application Serial No. 360,237, filed Feb. 20, 1920. This application filed Dec. 30, 1921. Serial No. 525,936. 41 Claims. (Cl. 200—22.)



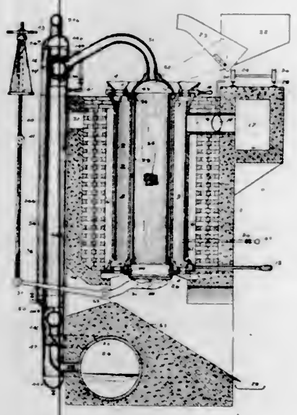
6. Ignition timer structure comprising a rotatable governor plate, a pivot on said plate integral therewith, a weight loosely engaging said pivot and sliding upon said plate, said weight having channel form embracing the edge of said plate, and a timer cam moved in response to movement of said weight.

1,476,523. PROCESS AND APPARATUS FOR FEEDING SULPHUR TO BURNERS. HERBERT DUGLASS KERR, Riccarton, Christchurch, New Zealand. Filed Jan. 20, 1923. Serial No. 613,969. 18 Claims. (Cl. 23—1.)



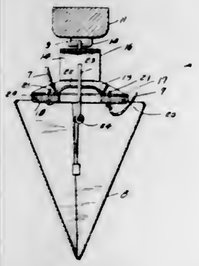
1. Apparatus for feeding sulphur to burners comprising a pipe down which sulphur is adapted to travel by gravity, means for delivering sulphur in solid form into the upper end of said pipe, a combustion chamber surrounding a portion of said pipe and in which chamber sulphur is burnt to provide the required degree of temperature to melt the sulphur passing down said pipe, means for admitting air to said chamber to maintain combustion, and a duct for delivering such molten sulphur by gravity to the burners.

1,476,524. BY-PRODUCT COKE OVEN. ZAREH H. KEVORKIAN, Fairfield, Ala. Filed July 7, 1919. Serial No. 309,192. 13 Claims. (Cl. 202—9.)



1. A by-product oven of the character described comprising an inner retort for the material to be treated, a fuel burning furnace surrounding said retort, movable top and bottom closures for said retort, and an annular grate for said furnace.

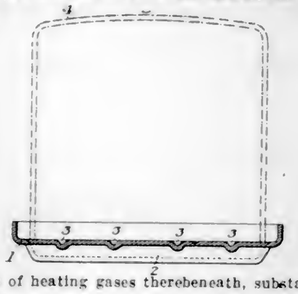
1,476,525. FLOAT-OPERATED CIRCUIT CLOSER. ALBERTO LAZZARI, New York, N. Y. Filed Aug. 3, 1921. Serial No. 489,595. 4 Claims. (Cl. 200—84.)



2. A circuit closer comprising a pivoted bail, a float having pivotal connection with said bail, relatively fixed contacts supported by means of said bail and electrically insulated therefrom, a sliding contact supported by said bail and normally electrically insulated from the said fixed contacts and adapted to close the circuit through either one and an element connected with the float and in engagement with the sliding contact to effect movement thereof and close the circuit by a relative pivotal movement of the bail and float in either direction.

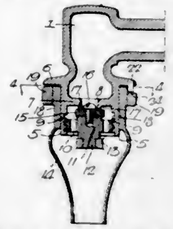
1,476,526. ANNEALING-BOX BOTTOM. IRVIN F. LEHMAN, Pittsburgh, Pa., assignor to Blaw-Knox Company, Blawnox, Pa., a Corporation of New Jersey. Filed Mar. 14, 1922. Serial No. 543,572. 3 Claims. (Cl. 263—49.)

1. An annealing box bottom having corrugations forming box supporting legs for maintaining the body of the box bottom spaced above the floor of the annealing furnace, there being openings communicating with the space between the corrugations and the combustion space of the furnace when the box is in the furnace for permitting



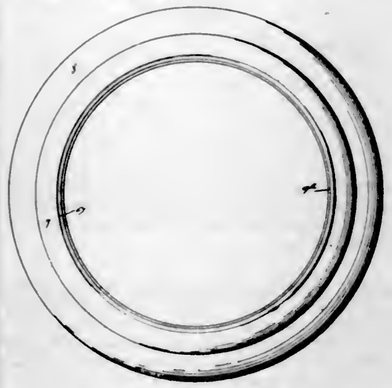
the access of heating gases therebeneath, substantially as described.

1,476,527. SPIGOT. ALFRED B. LEWIS and WILLIAM J. TAGGART, Philadelphia, Pa.; said Lewis assignor to Robert J. Taggart, Philadelphia, Pa. Filed Aug. 17, 1921. Serial No. 492,903. 1 Claim. (Cl. 251—8.)



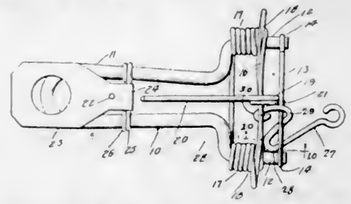
The combination in a spigot, of a body portion having a depending cylindrical section in which there is a valve seat, said section being smooth on the outside and threaded on the inside; a nozzle section extending over the cylindrical section; a valve carried by the nozzle section and having a screw thread adapted to the thread of the cylindrical section; a ring secured to the upper portion of the nozzle and having an operating handle, said ring being recessed to form stops; and a flange on the body portion extending over the upper end of the nozzle and the ring and having a depending pin extending into the recess of the ring to limit the movement of the nozzle.

1,476,528. DEMOUNTABLE RIM. CARL G. LUNDSTROM, Cleveland, Ohio. Filed July 1, 1922. Serial No. 572,351. 6 Claims. (Cl. 301—35.)



1. A rim comprising an inner split band, and a pair of side rings having inner portions which fit within and interlock the said band.

1,476,529. GOPHER TRAP. ROBERT C. LUTZ, Paola, Kans. Filed Sept. 28, 1922. Serial No. 591,147. 4 Claims. (Cl. 43—91.)

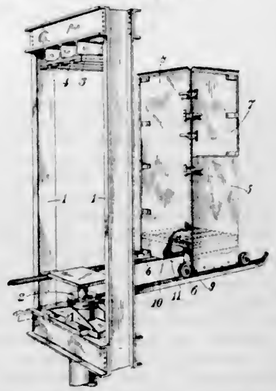


3. An animal trap having a frame forming a base, oppositely movable spring jaws mounted upon the frame, said jaws when set being disposed in overlapping relation, a latch having the coil embracing the jaws and provided with oppositely extending arms, a cross bar carried by the frame with which one of said arms engages, and the pivotally mounted trigger plate carried by the frame and having an opening with which the extremity of the other arm of said latch engages, the frame being of looped form with its extremities disposed in parallel spaced relation to form spindles, and the said jaws being formed of a single blank of wire having spring coils which respectively engage said spindle portions, and said cross bar being terminally engaged with the extremities of said spindle portions and being intermediately arched for engagement by the latch.

1,476,530. FLOTATION OF ORES AND MATERIALS THEREFOR. ERVIN W. MCCULLOUGH, Indianapolis, Ind., and ROGER E. WILSON, Minneapolis, Minn., assignors to Peter C. Reilly, Indianapolis, Ind. Filed Dec. 14, 1920. Serial No. 430,775. 22 Claims. (Cl. 83—85.)

1. The herein described composition of matter suitable for flotation purposes containing a coal tar distillate which distills at above 700° F., and a solvent which will permit flotation.

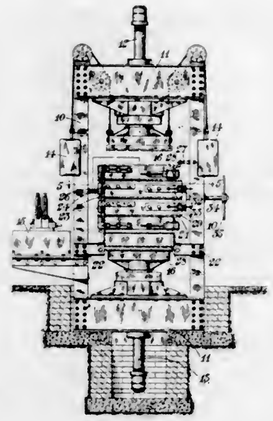
1,476,531. PRESERVATION AND PREPARATION FOR TRANSPORTATION OF OIL-BEARING RAW MATERIAL. ALFRED WILLIAM MACILWAINE, North Ferriby, England. Filed May 20, 1922. Serial No. 562,561. 8 Claims. (Cl. 99—11.)



2. A method of preserving oil-bearing raw material and preparing it for transport which consists in compressing quantities of said material in bulk under a pressure insufficient to express any of the contained oil but sufficient to form the material into a coherent block.

8. As a new product, a coherent block of copra, substantially free from oil on its exterior and substantially free from interstitial air spaces.

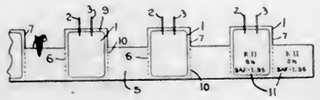
1,476,532. PRESERVATION AND PREPARATION FOR TRANSPORTATION OF COTTONSEED. ALFRED WILLIAM MACILWAINE, North Ferriby, England. Filed May 20, 1922. Serial No. 562,562. 8 Claims. (Cl. 99—11.)



6. A method of preserving cotton seeds and preparing them for transport, which consists in compressing quantities of said seeds in bulk in their shells under a pressure insufficient to express any appreciable quantity of the contained oil but sufficient to form a package of greatly reduced bulk.

8. As a new product, a coherent block of cotton seeds enclosed in their shells, the latter being free from oil on their exterior, and the block being substantially free from interstitial air spaces.

1,476,533. PIN TICKET. ALONZO KIMBALL MARSH, New York, N. Y., assignor to A. Kimball Company, New York, N. Y., a Corporation of New York. Filed Aug. 3, 1922. Serial No. 579,440. 2 Claims. (Cl. 40—25.)

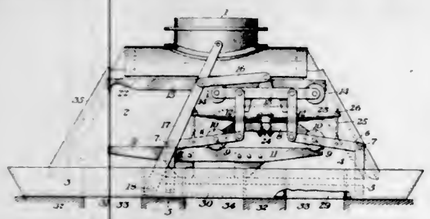


1. An article of manufacture comprising a strip of paper having alternating narrow sections and wide sections, said wide sections being provided adjacent their projecting ends with penetrating members, weakened fold lines extending transversely of said strip at the edges of said wider sections defining the contour of said wider sections as pin ticket bodies whereby severance upon the fold lines on the same side of successive wider sections will produce pin tickets each having a laterally extending flap.

1,476,534. VALVE. ADOLPH H. MEYER, Pittsburgh, Pa., assignor to H. L. Dixon Company, Carnegie, Pa., a Corporation of Pennsylvania. Filed Nov. 7, 1921. Serial No. 513,290. 9 Claims. (Cl. 137—151.)

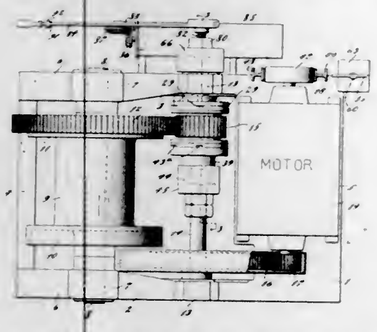
1. In a valve, a movable counterbalanced hood, a fixed track therefor, means for moving said hood along

said track, and means in fixed spaced relation to said track and cooperating therewith for imparting a substan-



tially vertical movement to said hood at the commencement and conclusion of its travel only, substantially as described.

1,476,535. HOISTING MACHINE. THOMAS SPENCER MILLER, South Orange, N. J. Filed Mar. 18, 1920. Serial No. 366,923. 12 Claims. (Cl. 192—2.)



1. In combination, a drum, an electric motor for driving said drum, a friction driving connection between said motor and drum, spring means normally acting to maintain said driving connection, controlling means for the motor, and means whereby said spring acts to maintain said connection when said motor controlling means operates to cause the motor to drive the drum and to vary the degree of friction of said driving connection when said motor is at rest.

1,476,536. BUCKET AND ASSOCIATED PARTS FOR CABLEWAYS. THOMAS SPENCER MILLER, South Orange, N. J. Filed Dec. 12, 1922. Serial No. 606,487. 7 Claims. (Cl. 37—117.)



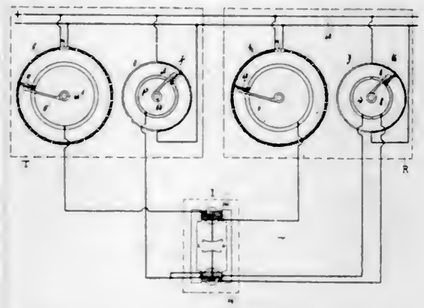
1. In combination a main supporting cable, a load-carrier comprising a carriage adapted to traverse said cable, a bucket pivotally suspended at one end from said carriage, a traversing line, a compound drum mounted on said carriage having two sections, on one section of which said traversing line is wound, and a flexible member wound upon the other section of the drum and connected to the end of said bucket opposite to that from which it is pivotally suspended, the parts being constructed and arranged to increase the leverage at which said traversing line acts on its section of the drum as the bucket is lowered.

1,476,537. APPARATUS FOR MANUFACTURING TUBES. JOHN W. MOON, Lansdowne, Pa., assignor to Fretz-Moon Tube Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 19, 1922. Serial No. 562,227. 16 Claims. (Cl. 78—83.)



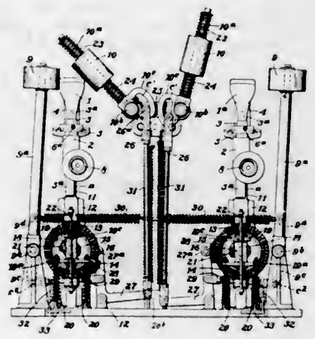
5. An apparatus for forming metallic tubing in a continuous manner from skelp, comprising means for heating the skelp to the working heat during its passage therethrough, a bell for simultaneously bending the skelp into tubular form and forcing the edges into welding contact as the skelp leaves the heating means, sizing rolls beyond the bell but adjacent thereto to size the welded tube before cooling, means for driving the rolls, and means for varying the speed of said driving means to control the heating of the skelp during its passage through the heating means.

1,476,538. ELECTRICAL APPARATUS FOR CONTROLLING INDICATORS AT A DISTANCE. JOHN CUTHBERT, Needham, London, England, assignor to Eversbed & Vignoles, Limited, London, England, and himself. Filed Mar. 9, 1923. Serial No. 623,967. 2 Claims. (Cl. 177—337.)



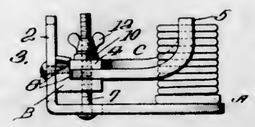
1. In a signaling system a transmitter and a receiver, said transmitter and receiver each comprising similar terminal resistances and similar primary resistances said terminal resistances each being divided into a number of equal subdivisions and said primary resistances each consisting of a continuous resistance, a source of energy connected across said terminal resistances in parallel, a source of energy connected to said primary resistances the positive connection forming a point of maximum positive potential and the negative connection forming a point of maximum negative potential so that there is a steady change in potential around said resistances, a contact arm in the transmitter and a contact arm in the receiver for said terminal resistances, an indicator and means for connecting said indicator in circuit with said contact arms, a contact arm in the transmitter and a contact arm in the receiver for the primary resistances, a second indicator and means for connecting said indicator in circuit with said latter contact arms, means for operating said transmitter and means for operating said receiver, said means in each case comprising means for moving the primary contact arm from one point of maximum potential to the next adjacent point of maximum potential when the terminal contact arm moves over one subdivisiin of the terminal resistance.

1,476,539. BINDING-ROLLER MACHINE. JOSEPH E. PERRAULT, Watertown, Mass., assignor to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Filed Sept. 15, 1921. Serial No. 500,846. 11 Claims. (Cl. 12—1.)



1. In apparatus of the class described a last support, means for rotating the same on an axis substantially perpendicular to the sole, and opposed cylindrical rollers located on opposite sides of the sole, one of said rollers being jurnaled on an axis substantially parallel with the axis of the last and the other roller being journaled on an axis inclined to the axis of the last, and means for pressing the rollers towards each other.

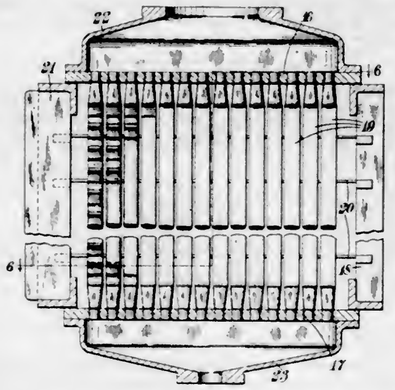
1,476,540. TOOL FOR COMPRESSING AND CLAMPING SPRINGS. WALTER W. PRYMEK, Iowa City, Iowa. Filed Mar. 20, 1922. Serial No. 545,201. 6 Claims. (Cl. 29—86.3.)



1. A spring compressor including a bifurcated base having a lateral extension, a member slidable on said lateral extension, a pair of fingers slidable laterally on said member, and means for sliding the member on the lateral extension disposed between said extension and the spring engaging portions of the base and fingers adapted to compress a spring between the base and fingers when said parts are moved toward each other.

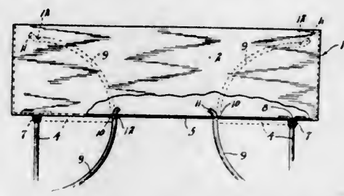
1,476,541. CONDENSER FOR AIRCRAFT. DAVID MCNAB RAMSAY, Glasgow, Scotland, assignor to The Ramsay Condensing Locomotive Company Limited, Glasgow, Scotland, a British Company. Filed Feb. 3, 1922. Serial No. 533,757. 3 Claims. (Cl. 257—36.)

1. In an air-cooled condenser for aircraft steam power plant, a condenser unit comprising a top header, a bottom header, a plurality of tubes having cylindrical ends for attachment to said headers and having intermediate portions flattened in one plane and corrugated so that the ridges of the corrugations extend across the flattened sides of the tubes transversely to the length thereof and arranged with the flat sides substantially parallel to two opposite sides of the condenser unit, and fixed air deflecting plates mounted on that one of the other sides of the unit which constitutes the leading



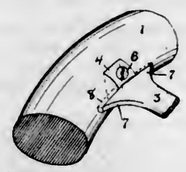
face of the unit, said plates extending in the direction of the length of the tubes but at an angle to the plane of flattening thereof.

1,476,542. SUPPORTING DEVICE FOR CASINGS. SOPHUS RASMUSSEN, Albert Lea, Minn., assignor to American Gas Machine Company, Albert Lea, Minn., a Corporation of Minnesota. Filed Apr. 19, 1923. Serial No. 633,118. 8 Claims. (Cl. 126—304.)



1. The combination with a casing having a bottom wall of sheet material, of a supporting member having angularly extending arms and being pivoted about one of said arms along said bottom wall, the other arm being adapted to extend outwardly from said wall and having a curved extension at its outer end disposed in a plane substantially perpendicular to the plane determined by said arms, said extension being adapted to move through an opening in said wall as the member swings about its pivoted arm.

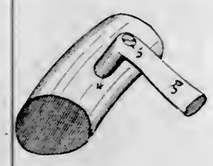
1,476,543. STEERING WHEEL. WILLIAM C. RASTETTER, Fort Wayne, Ind. Filed Oct. 27, 1921. Serial No. 510,901. 1 Claim. (Cl. 74—33.)



A steering wheel having a wooden rim and metallic spider, the ends of the spider arms having respectively a lug that projects upwardly and downwardly therefrom and an extension at each side thereof, the rim having

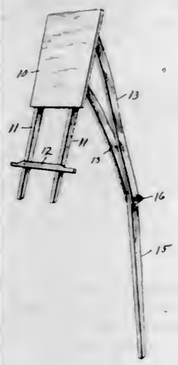
a recess for each of said lugs extending in a plane parallel with the axis of the wheel and corresponding imprints adjacent the respective sides of each recess for the reception of the corresponding extensions; and means engaging each of said lugs and extending into the rim to secure the same fixedly thereto.

1,476,544. STEERING-WHEEL CONSTRUCTION. WILLIAM C. RASTETTER, Fort Wayne, Ind. Filed Oct. 27, 1921. Serial No. 510,902. 2 Claims. (Cl. 74—33.)



1. A steering wheel comprising a spider and rim, the arms of the spider being so formed as to leave both the inner and outer perimeters of the rim and the bottom thereof free and unobstructed.

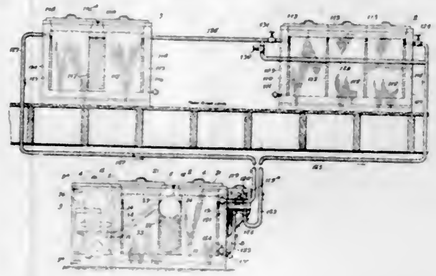
1,476,545. LAP EASEL. FRANK REAUGH, Oak Cliff, Tex. Filed Feb. 3, 1920. Serial No. 355,949. 10 Claims. (Cl. 45—129.)



6. A lap easel having a frame including a bar adapted to rest in the lap of a person in sitting position, a pair of front legs rigidly secured to said bar and having portions extending to a short distance below the bar and adapted to be held against the sides of the knees, and a rear leg having its upper end pivotally connected to the upper ends of both of said front legs and having its lower end adapted to rest on the ground.

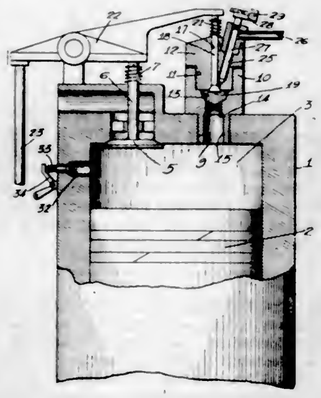
1,476,546. REFRIGERATING FOOD CABINET. JOHN R. REPLOGLE, Detroit, Mich., assignor to Nizer Laboratories Company, Detroit, Mich., a Corporation of Michigan. Filed July 21, 1922. Serial No. 576,477. 20 Claims. (Cl. 62—101.)

1. A horizontally elongated refrigerated cabinet for food and the like having top, bottom and lateral exterior walls and means comprising an upright wall dividing the structure into a plurality of compartments, a brine tank disposed in one of said compartments, a plurality of open-topped food chambers extending downward into the brine tank and having their upper ends opening through the top wall of the cabinet, movable closures for said food chambers, and means for cooling the brine comprising a motor-driven compressor, a condenser and an evaporator operatively connected with the compressor and immersed in the brine of the brine tank, the said compressor being enclosed in another of said compartments of the cabinet and this compressor compartment having an opening and a closure therefor constituting an outside wall section of the cabinet and arranged to afford ready access to said compressor compartment without interfering with access to said food chambers.



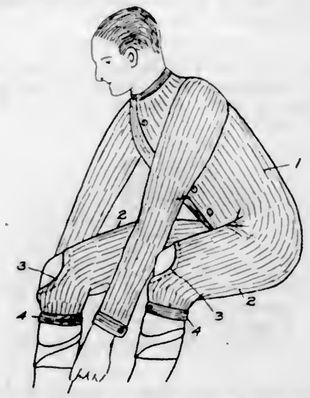
13. In a refrigerating cabinet system, the combination of a main brine tank, a cabinet separate from said tank and fitted with an auxiliary brine tank and a food chamber extending into said tank and surrounded by the brine therein, means including a pump for circulating brine from the main tank to the auxiliary tank and back again to the main tank, an electric motor for driving the pump, electrically driven refrigerating apparatus operable independently of said pump motor and comprising an evaporator immersed in the brine in the main tank and a gas liquefier connected with the evaporator, and means responsive to the temperature of the brine in the main tank for starting and stopping the operation of said liquefier and simultaneously starting and stopping said pump motor.

1,476,547. INTERNAL-COMBUSTION ENGINE. CHARLES A. ROSS, San Pedro, Calif. Filed May 26, 1921. Serial No. 472,654. 3 Claims. (Cl. 123—33.)



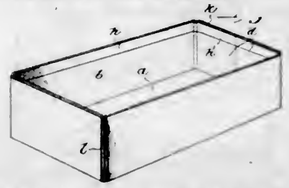
1. An internal combustion engine having a plug formed with a fuel chamber of semi-spherical form and spray openings disposed axially of the chamber and effecting communication between the chamber and the cylinder, a valve adapted to control the admission of fuel to said chamber, an air intake valve in said cylinder, and means for actuating said valves.

1,476,548. SHIRT. WILLIAM A. SCOTT, Jr., Pittsburgh, Pa. Filed Sept. 15, 1922. Serial No. 588,399. 2 Claims. (Cl. 2—144.)



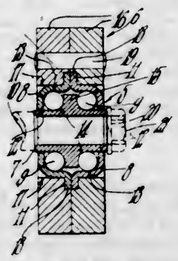
1. A garment having an upper and a lower portion, the lower portion being provided with means adapted to engage the legs of the wearer at points below the knees and provided with openings having finished edges in the fronts of the lower portion at points opposite the knees of the wearer.

1,476,549. COVERED BOX. HARRY BRIDGMAN SMITH, New York, N. Y. Filed Apr. 23, 1921. Serial No. 463,755. 13 Claims. (Cl. 229—32.)



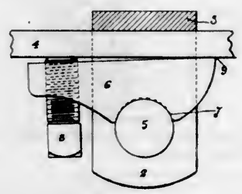
1. A covered paper box comprising a cardboard shell and a paper cover overlying outer surfaces of the shell, corner laps of the shell being inwardly located at the end walls of the box with their inward edges close together, marginal portions of the cover being inturned and secured to margins of the box wall around the entire inner circumference of the box, the shell end wings being adhesively secured to outer surfaces of the corner laps.

1,476,550. ROLLER-SKATE ROLL. ARTHUR L. STAPLES, New Haven, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Filed July 22, 1921. Serial No. 486,786. 13 Claims. (Cl. 46—52.)



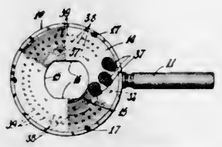
1. In a skate roll, the combination of tread-forming disks provided with central openings, said disks having their side faces in abutting contact and their peripheral edges arranged to constitute the tread surface of the roll, ball cups in said openings having flanges extending between abutting faces of said disks, and means for binding together the disks and the interposed flanges of the ball cups.

1,476,551. CLAMP FOR CULTIVATOR-TOOL SHANKS. CARL G. STRANDLUND, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Nov. 8, 1922. Serial No. 599,684. 3 Claims. (Cl. 55—94.)



1. The combination with a beam, of a clamp of the character described, comprising a body portion having parallel arms and a back in contact with the beam, openings in said arms to receive the shank of a cultivator tool, a block between the beam and the shank, said block fulcrumed at one end on the beam, and a set screw in the other end of said block and operative against the beam to swing said block against the shank.

1,476,552. SHELL-TIMING DEVICE. ALBERT STREICHER, New York, N. Y. Filed Jan. 12, 1923. Serial No. 612,166. 7 Claims. (Cl. 86—23.)

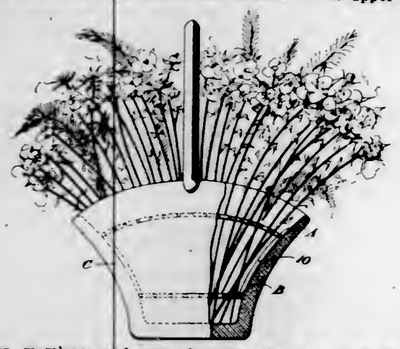


4. A device of the class described comprising a pair of rings adapted for limited rotation on one another, one of said rings being formed with circumferentially spaced indentations, an element on the other ring adapted to yieldingly engage in said indentations, and means for limiting the relative rotary movement of said rings between points determined by the engagement of the said element in a selected one of the said indentations, said means comprising a fixed lug on the last named ring, and fixed and movable stop members on the first named ring, said movable stop member comprising a block slidable in a circular groove in the first named ring, and having a screw threaded therethrough for locking it to the said ring, said ring having a circularly arranged series of sockets in which the end of said screw is adapted to engage.

1,476,553. FLOWER HOLDER. WILLIAM R. STUCK, Los Angeles, Calif., assignor, by mesne assignments, to The Dazey Manufacturing Company, Los Angeles, Calif., a Corporation of California. Filed Jan. 21, 1922. Serial No. 530,803. 3 Claims. (Cl. 47—18.)

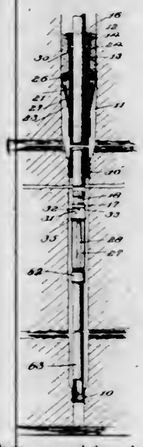
1. A flower holder comprising an upper reticulated member of arcuate form, a lower reticulated member

which is flat and smaller than the first member, and upright members connected to the corners of the upper and



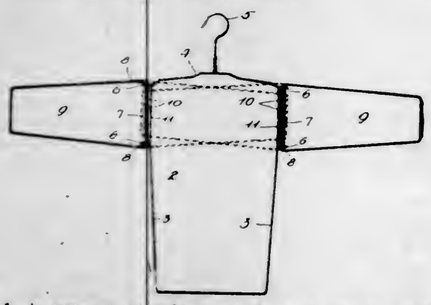
lower members and curved outwardly from the lower member to the upper member.

1,476,554. WELL. JOHN N. SWANSON, Iowa Park, Tex. Filed July 3, 1922. Serial No. 572,663. 8 Claims. (Cl. 166—10.)



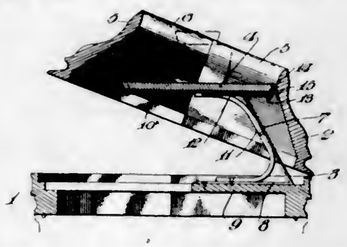
1. A well packer comprising in combination, a section of casing, a joint in said casing adapted when in a well to be disconnected by means acting at the mouth of the well and means released by such disconnection to obstruct the space around the casing.

1,476,555. GARMENT STRETCHER. PAUL J. TIMBERLAKE, Jackson, Mich. Filed Jan. 8, 1923. Serial No. 611,484. 4 Claims. (Cl. 223—19.)



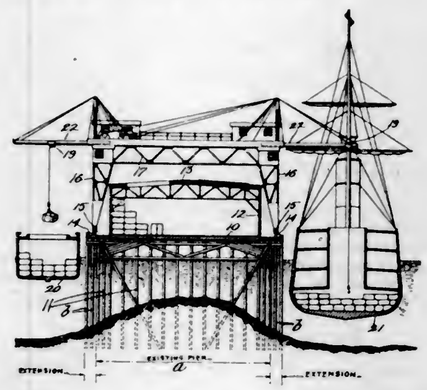
1. A garment stretcher comprising a central frame of wire and having side bars formed with eyes or loops which are united by intermediate portions of the side bars, sleeve frames of open form with inturned ends in line with each other such ends passing through the said eyes or loops in the side bars of the central frame and freely hinging therein.

1,476,556. CABINET FOR PHONOGRAPHS AND THE LIKE. PASQUALE DELLA TORRE, Philadelphia, Pa. Filed Jan. 24, 1923. Serial No. 614,530. 5 Claims. (Cl. 217—60.)



1. A cover for a cabinet of the character stated having its top portion separate from the surrounding side wall forming a table, means on the cabinet for supporting said table, and means connected with said cover and table for moving the latter when the cover is opened and closed out of the paths of the same without having said table and an object thereon contacted by said cover.

1,476,557. CARGO-HANDLING APPARATUS. WARREN TRAVELL, New York, N. Y. Filed Oct. 25, 1919. Serial No. 333,359. 1 Claim. (Cl. 212—15.)



The combination, with a complete, operative pier comprising a piling structure with floor and house in and over water, said house being close to the water edge of the pier, of additional narrow piling structures extending along said house on both water margins of the first mentioned piling structure, tied thereto and supported thereby; and a gantry crane supported by said marginal piling structures, bridging over the said house and co-operating therewith through openings in its roof.

1,476,558. REGISTER-OPERATING MEANS. WILLIAM M. TULLEY, Portsmouth, Ohio. Original application filed Oct. 27, 1921, Serial No. 510,744. Divided and this application filed July 6, 1922. Serial No. 573,123. 3 Claims. (Cl. 235—91.)

1. A mechanical movement comprising a rock shaft provided with a lateral operating arm having a longitudinal slot, a fixed plate in a plane parallel to that in which said arm swings, said plate having a curved



slot, and an operating member having a portion received in the slots of said plate and arm, for the purpose set forth.

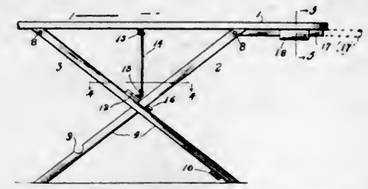
1,476,559. SHIPPING BOX FOR CARBOYS. CALVIN S. WEATHERBY, Westville, N. J. Filed Apr. 27, 1923. Serial No. 634,974. 3 Claims. (Cl. 217—54.)

1. An upright skeleton cushioning frame for the corner of a carboy box, comprising an outer upright, an intermediate upright, and an inner upright of less length than said intermediate upright, spacing blocks for the upper and lower portions of said corner upright and intermediate upright, and spacing blocks for the upper and lower portions of said inner upright and intermediate upright, said inner upright being adapted to contact with a carboy.

1,476,560. VALVE-BAG CLOSURE. FRED WITMER, Woodville, Ohio. Filed May 22, 1922. Serial No. 562,755. 4 Claims. (Cl. 150—9.)

1. The combination with a bag having a filling passage provided with opposed substantially flat closely related side walls; of a substantially flat closure inserted snugly into said passage after filling the bag, said closure being secured in contact with said opposed passage walls and forming an imperforate seal for the bag from the time of insertion until the bag is opened.

1,476,561. COMBINED IRONING BOARD AND STEP-LADDER. PAUL WOSS, Chicago, Ill. Filed July 20, 1922. Serial No. 576,337. 1 Claim. (Cl. 68—10.)

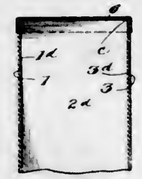


In an ironing board of the type described, a board member, pairs of legs hinged at their upper ends to the underside of the board member and arranged in crossed relation when the ironing board is set up, a cross bar carried by one pair of legs adapted to be engaged by the other pair of legs to hold the board in set up position, cooperating means carried by the cross bar and board member for rigidly supporting the latter, and members pivotally carried by the cross bar adapted to engage one pair of legs to prevent separation of the said pairs of legs.

1,476,562. RENDERING PAPER MATERIAL AND THE LIKE GREASE AND WATER PROOF. WILBUR L. WRIGHT, Fulton, N. Y. Filed May 22, 1920. Serial No. 383,424. 2 Claims. (Cl. 91—68.)

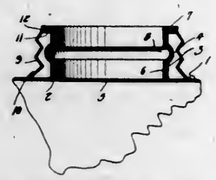
1. A paper container interiorly coated by a grease proofing composition coagulated by acetic acid fumes to render the same moisture proof.

1,476,563. BRICK-ICE-CREAM BOX. WILBUR L. WRIGHT, Fulton, N. Y., assignor, by mesne assignments, to Oswego Falls Corporation, Fulton, N. Y., a Corporation of New York. Filed Jan. 7, 1922. Serial No. 527,729. 5 Claims. (Cl. 229—37.)



1. A rectangular paper box set up from a single flat blank and formed to receive semi-frozen ice cream from a filling machine and to contain the ice cream during hardening and delivery to the ultimate consumer, said box having an end mouth and longitudinal internal flaps extending throughout the internal length of the box and forming the inner longitudinal ice-cream contacting surfaces of the box.

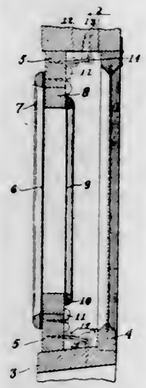
1,476,564. SEAL FOR METAL CANS AND LIKE CONTAINERS. SAMUEL H. YANCEY, New York, N. Y. Filed Apr. 13, 1922. Serial No. 552,125. 1 Claim. (Cl. 220—24.)



A container having a collar about its filling and dispensing opening, a closure for said collar, the closure being of a shape to permit application of a stopper after

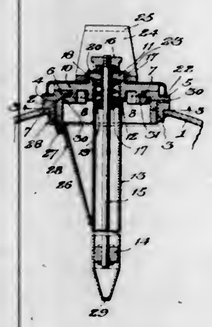
puncture of the closure, said collar at its outer end having an outwardly extending flange, and a collar for fastening of a closure thereto surrounding the first collar and having an inwardly extending flange overlapped by the said flange.

1,476,565. WINDOW SCREEN. LEE A. YEAGER, Akron, Ohio. Filed Mar. 4, 1920. Serial No. 363,318. 2 Claims. (Cl. 156—14.)



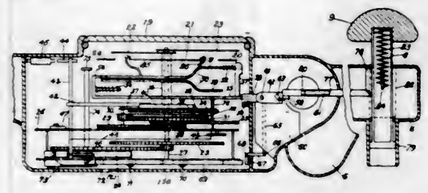
1. In a device of the class described, in combination, a window frame, a frame detachably secured therein, the outer side of said last mentioned frame covered with open meshed heavy wire screen and a relatively smaller frame detachably secured within the second named frame, the inner side of the last named frame being covered with close meshed, fine wire screen substantially as and for the purpose herein set forth.

1,476,566. TANK CLOSURE. ALVIN M. YOCOM, Pottstown, Pa. Filed Nov. 7, 1922. Serial No. 599,528. 5 Claims. (Cl. 220—35.)



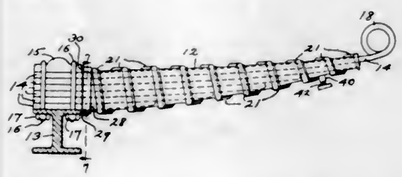
1. A tank closure, comprising a bushing secured in the filling aperture of the tank and having segmental cam projections thereon, a cap having conjugate segmental projections thereon, whereby the cap can be released from the tank by a partial rotation, locking teeth on said bushing, a locking member, carried by said cap and capable of a limited vertical movement relative thereto to be engaged with or disengaged from said teeth, a spring to resist said movements, and means to raise said locking member against said spring and to thereafter turn said cap and finally lift it off.

1,476,567. FRAUDLESS BALLOT-MARKING MACHINE. SANFORD C. YOUNG, Erie, Pa., assignor to American Time Lock Company, Wm. C. Kramer, trustee. Filed July 31, 1919. Serial No. 314,421. 18 Claims. (Cl. 235—51.)



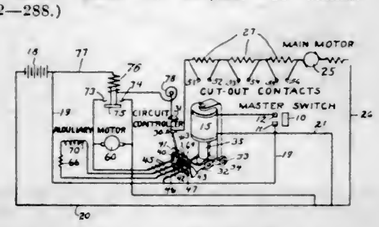
1. In combination, a marking device, a clock train, marker controlling means controlled by the clock train for allowing marking operation of the device during a predetermined time and thereafter preventing marking operation, a casing inclosing the clock train and marker controller, and means for preventing the opening of the casing rendered operative upon the starting and inoperative upon the stopping of the clock train.

1,476,568. CASING FOR LAMINATED SPRINGS. JOHN ZULICH, Cleveland, Ohio, assignor of forty-nine one-hundredths to Carl W. Schaefer, Lakewood, Ohio. Filed Mar. 8, 1922. Serial No. 541,919. 12 Claims. (Cl. 267—37.)



1. The combination, with a laminated spring which has an end free to move and is reduced in thickness toward said end and adapted to be supported at a point spaced from said end, of a casing comprising a flexible strip which is wound around the spring in the direction of the thickest portion of the spring and held against unwinding and has two spaced outwardly projecting portions extending endwise of the strip, one of said projecting portions of the spirally wound strip being contoured in cross-section and arranged as required to form a cover or housing for the other of said projecting portions and having the dimensions required to permit and facilitate flexing of the casing and spring.

1,476,569. ELECTRIC-MOTOR-CONTROL SYSTEM. THORSTEN ZWEIGBERGK, London, England. Filed Dec. 29, 1919. Serial No. 347,922. 15 Claims. (Cl. 172—288.)



1. In a system of the class described, the combination of a motor in an open circuit, a variable resistance therein, an auxiliary motor, an electromagnetic switch for reversing the same, means for closing the main circuit

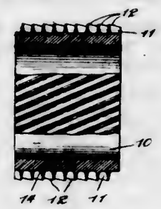
and simultaneously actuating said switch to reverse the auxiliary motor in a different circuit, and means whereby such reversal successively varies the resistance in the main circuit.

1,476,570. VENEER BOARD AND METHOD OF MAKING SAME. FLOYD W. ADAMS, East Orange, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Filed Dec. 14, 1920. Serial No. 430,725. 9 Claims. (Cl. 154—2.)



3. The process which comprises superposing a plurality of strips containing fibrous material and comminuted waterproofing material, and hot pressing a sheet of other material against the same at such a temperature that the waterproofing material will become melted and unite said sheet to said strips.

1,476,571. PULP-STONE-DRESSING BUR. CECIL B. AIKIN and FRANK W. AIKIN, Watertown, N. Y. Filed June 24, 1922. Serial No. 570,698. 1 Claim. (Cl. 125—37.)



A pulp stone dressing bur provided with a plurality of spaced ribs defining interlying grooves, the bottoms of which are substantially flat, merging into the inclined sides of the ribs by concave surfaces extending from said flat bottoms to the inclined sides.

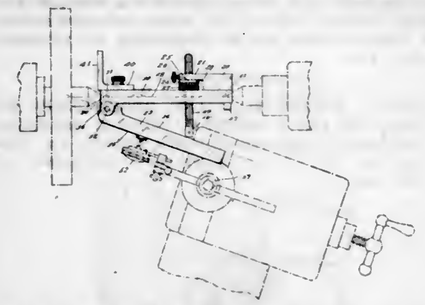
1,476,572. CONCRETE CONSTRUCTION. EDWIN F. ALLBRIGHT, Wollaston, Mass., assignor, by mesne assignments, to Grid Flat Slab Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 6, 1919. Serial No. 322,182. 8 Claims. (Cl. 72—15.)



1. In concrete construction, the combination with a metal column of H-shaped cross section and a cap for said column comprising a base plate having side sections the inner edges of which fit against the paneled members of the column and end sections the inner edges of which enter between the parallel members of the column for lateral presentation to the flanges and web of the column respectively, means for securing said sections together, and brackets for securing said sections to the column.

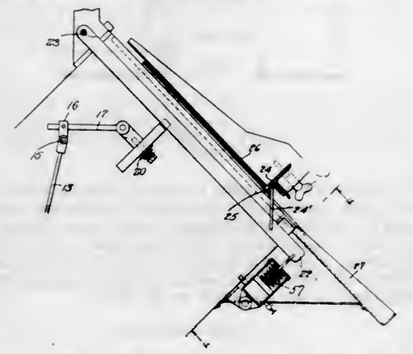
1,476,573. TAPER GAUGE. WILLIAM A. ALLEN, Indianapolis, Ind., assignor to William A. Allen and Herman C. Stadtlander, both of Indianapolis, Ind., a Copartnership. Filed Dec. 12, 1921. Serial No. 521,601. 4 Claims. (Cl. 33—81.)

1. An angle gauge comprising a main body having alined centers in its opposite ends, a gauge bar pivoted upon the main body, a spacer member carried by the main body at right angles to the zero position of the gauge bar,



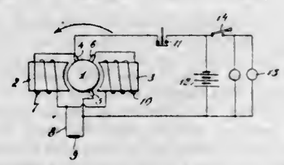
and means by which said spacer member may be accurately positioned at different amounts of projection from the zero position.

1,476,574. PHOTOGRAPH-PRINTING MACHINE. PATRIK ANDERSSON, New York, N. Y. Filed Oct. 12, 1921. Serial No. 507,244. 7 Claims. (Cl. 95—73.)



1. A photographic printing machine comprising a closed box having a glass top, a lamp for illuminating the box, means for supporting a negative on said glass top, means for supporting said negative in place, arms for guiding the print paper to said negative, said arms being formed with means for covering that part of the glass not covered by the negative, a pad for pressing a sheet of print paper against said negative, manually actuated means for moving the pad into an operative position for pressing the print paper against the negative, and means for causing said lamp to be lighted as the pad presses the paper, said means acting to turn out the lamp as the pad leaves the paper.

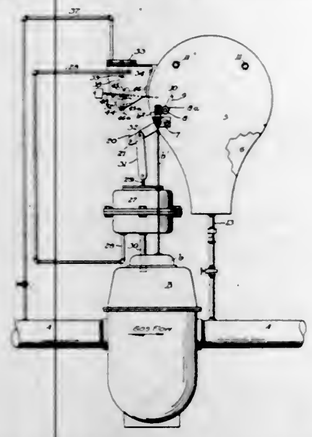
1,476,575. DYNAMO-ELECTRIC MACHINE. MORTON ARENDT, New York, N. Y. Filed June 1, 1920. Serial No. 385,476. 3 Claims. (Cl. 171—223.)



1. A dynamo-electric machine comprising an armature provided with a commutator, main brushes advanced in the direction of rotation for collecting the current from the commutator, an auxiliary brush and one of said main

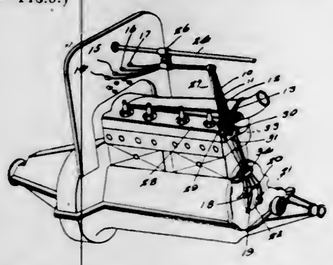
brushes located in the same neutral zone on opposite side of the geometrical neutral axis and a sectionalized field winding having one portion connected in shunt between the main brushes and the other portion connected between the auxiliary brush and the main brush in an opposite neutral zone.

1,476,576. INTEGRATING AND REGISTERING DEVICE FOR FLUID METERS. JAMES R. ARMSTRONG, Pittsburgh, and THOMAS B. WYLIE, Bellevue, Pa. Filed Apr. 14, 1921. Serial No. 461,458. 10 Claims. (Cl. 235—61.)



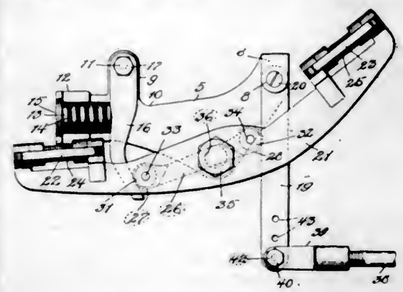
1. A device for registering in units of constant value the flow of fluid through a line comprising a registering means, means for driving the registering means proportionally to the pressure in the line, a meter, and means whereby the said driving means is actuated every time a given volume of fluid passes through the meter, said driving means being independent of but controlled by the meter.

1,476,577. WIRING FOR IGNITION SYSTEMS. ROSCOE N. BAUGHN and JOHN ELTON FULMER, Conway, Ark. Filed Mar. 2, 1922. Serial No. 540,478. 1 Claim. (Cl. 123—146.5.)



Means for connecting a coil box and timer, comprising a plurality of electrical conductors, having distinguishing characteristics, a bracket to be secured to a cylinder head and comprising an element extending forwardly from the cylinder head and an element extending upwardly from the head, for holding the conductors in an approximately horizontal position, remote from the zone of excessive heat, a clamp for securing the wires to the bracket and out of contact with adjacent elements of an engine, means for retaining the individual wires in proximity at a point between the clamp and the timer, and supporting means located between the bracket and the coil box and adapted for connection with a radiator supporting element.

1,476,578. CLUTCH CONTROL. JOHN F. BALLAK, St. Louis, Mo. Filed Feb. 21, 1923. Serial No. 620,319. 2 Claims. (Cl. 74—81.)



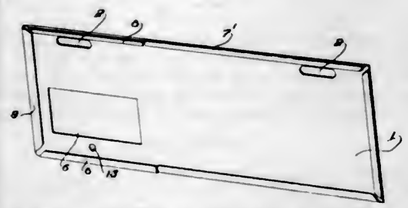
1. In combination with a bracket having a cam and a lever revolubly secured thereto, a reach rod revolubly secured to said lever, a rocker arm, rollers revolubly secured to said rocker arm in such position that they are in contact with the inner faces of said cam and lever, a coiled spring secured to said bracket in contact with said cam.

1,476,579. TOOTHBRUSH. HENRY BARNES, Cleveland, Ohio. Filed May 27, 1918. Serial No. 236,738. 1 Claim. (Cl. 15—167.)



A tooth brush comprising a handle having a brush-carrying end extending transversely to the body of the handle, tufts of bristles mounted in said end and projecting therefrom approximately parallel with the body of the handle and toward the opposite end thereof, said tufts of bristles forming together a body of bristles having its greatest dimension measured in the direction of the width of the handle and adapted to operate by an endwise movement in the direction of the length of the handle in cleansing the inner or lingual surfaces of the teeth.

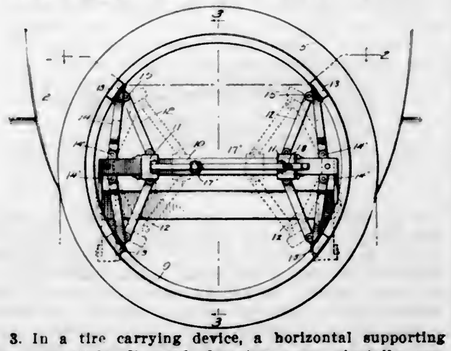
1,476,580. LICENSE PLATE. JOSEPH W. BAXTER, Eugene, Oreg. Filed July 19, 1921. Serial No. 485,810. 1 Claim. (Cl. 40—63.)



An identification tag of the character described comprising an elongated plate provided with an opening adjacent one end and having its edges bent upon themselves to provide reinforcements, said longitudinally bent

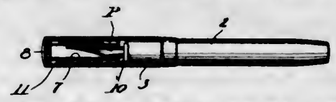
portions adjacent the opening being cut and spaced from the plate and the side edge adjacent the opening being likewise spaced from the plate, said spaced portions providing a guideway, an insert plate designed to be slidably secured within the guideway for indicia thereon to show through the opening for the purpose specified.

1,476,581. AUTOMOBILE TIRE HOLDER. RICHARD C. BAXTER, EDWARD F. GALLOWAY, and HARLEY E. GRAY, Athens, Tenn., assignors of one-fourth to Clem J. Jones and Robert A. Davis, comprising the Firm of Jones & Davis, Athens, Tenn. Filed May 23, 1922. Serial No. 562,978. 4 Claims. (Cl. 224—29.)



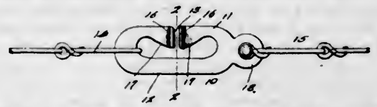
3. In a tire carrying device, a horizontal supporting bar, oppositely disposed clamping arms pivotally connected at one end to said supporting bar at either end thereof, channel brackets formed at the outer end of each of said arms, shiftable block members carried upon said bar, link members pivotally connecting the outer ends of said clamping arms to said block members, a staple carried upon the outer face of one of said block members, a locking bar pivoted at one end to one of the block members and provided at its other end with a slot for engaging said staple, and a connecting bar pivoted at one end to the other block member and at its other end to said locking bar.

1,476,582. FOUNTAIN-PEN ATTACHMENT. JOHN M. BEADLES, Los Angeles, Calif. Filed May 24, 1923. Serial No. 641,204. 9 Claims. (Cl. 120—42.)



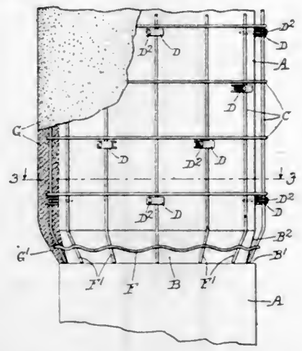
1. An attachment for fountain pens and other instruments, comprising a stamp magazine adapted to slip into the fountain pen sleeve or cap and to telescope over and around the fountain pen and its spoon, said magazine being longitudinally slotted to receive stacked stamps.

1,476,583. CHAIN FASTENER. HARRY L. BEARD and HARRY A. STREALY, Lewisburg, W. Va. Filed June 19, 1922. Serial No. 569,238. 1 Claim. (Cl. 24—230.5.)



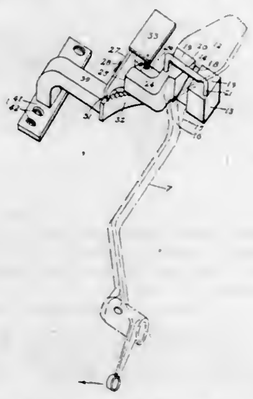
A chain fastener comprising U-shaped body, oppositely extending and opposed extensions carried thereby, the latter increasing in width toward their extremities and having their ends spaced and formed with wings which extend vertically and transversely from the ends, the ends extending beyond the plane of the side faces of the extensions.

1,476,584. PROTECTED PILE AND PROCESS OF MAKING IT. FRANK F. BEEBY, Chicago, Ill., assignor to Cement-Gun Construction Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 24, 1922. Serial No. 546,343. 6 Claims. (Cl. 20—100.)



2. A composite pile comprising a pile body having a peripheral notch thereabout, a reinforced concrete sheath about said pile above said notch, the lower edge of said sheath being received in said notch and being protected by the lower wall thereof.

1,476,585. AUXILIARY-CLUTCH-PEDAL CONTROL. THOMAS J. BRADY, Astoria, N. Y. Filed Feb. 20, 1922. Serial No. 537,742. 4 Claims. (Cl. 74—39.)

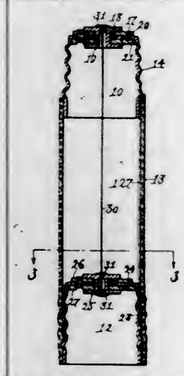


1. In a clutch pedal control, a body member adapted to fit the pedal portion of a clutch pedal and means for securing the same thereto, said body member having an offset portion and a ledge extending forwardly thereof to provide a recess, a pawl pivotally engaged with said offset portion and formed at one end with a toe-plate adapted to work in said recess, and means in connection with said ledge and said toe-plate whereby yieldingly to maintain the toe-plate in a level higher than the surface of the pedal portion of the clutch pedal.

1,476,586. ELECTRICAL PLUG AND SOCKET EXTENSION UNIT. GEORGE H. BOWEN, Boston, Mass. Filed Jan. 30, 1920. Serial No. 355,041. 1 Claim. (Cl. 173—344.)

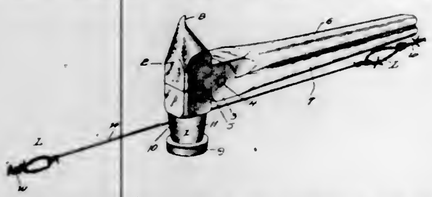
An electrical extension unit comprising a plug member and a socket member spaced apart and each comprising a metal shell provided with screw-threads and with a head carrying a contact member located substantially

central with relation to said head and insulated therefrom, a tube of insulating material interposed between and frictionally engaged with said plug and socket members to constitute the support for both of said members and to form an insulated handle between them, a con-



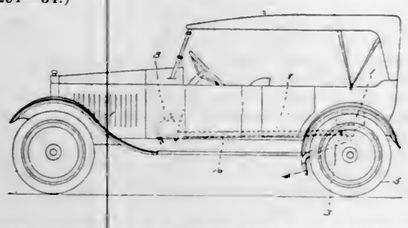
tinuous electrical conductor within the insulating tube attached at its opposite end to the contact members carried by the heads of the shells of said plug and socket members, and an electrical connector within the insulating tube directly connecting the shells of said plug and socket members.

1,476,587. FENCEMAKER'S TOOL. CHARLES T. BRANHAM, Valley Center Township, Kans. Filed Dec. 12, 1921. Serial No. 521,822. 1 Claim. (Cl. 254—28.)



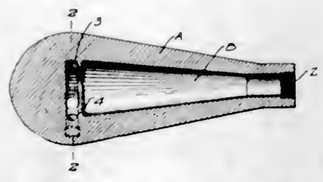
In a fence maker's tool, a head formed at one end with a conoidal-shaped staple remover, the apex of which is eccentrically disposed and extended at an oblique angle with respect to the axis of said head to form a staple-engaging member.

1,476,588. SANDING MECHANISM FOR MOTOR VEHICLES. THOMAS J. BROOKS, Nashville, Tenn. Filed June 3, 1922. Serial No. 565,564. 1 Claim. (Cl. 291—34.)



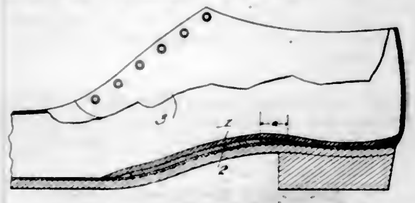
The combination in a motor vehicle, of a sand container, means for conducting sand from said container to a point adjacent to the roadway and in front of one of the drive wheels, a pedal brake-actuating lever, a valve in the said conducting means, and a connection intermediate the brake pedal lever and the valve, constructed and arranged to open said valve on movement of the brake lever to apply the brakes and to close said valve on the return of the pedal brake lever to its normal position, with a valve arranged in said conducting means at a point between the container and the first-named valve and operable independently of said first-named valve and means connected to the second-named valve and extending to a point within convenient reach of the motor vehicle driver to enable him to cut off the supply of sand to the brake operated valve and to establish the said supply when necessary.

1,476,589. ATOMIZER. WINTON E. BROWN and CHARLES T. BROWN, Sacramento, Calif. Filed May 1, 1922. Serial No. 557,725. 3 Claims. (Cl. 91—45.)



1. An atomizing device of the character described comprising an elongated cylindrical casing, a chamber formed in the interior thereof, a discharge opening formed at one end of the casing and in communication with said chamber, an annular mixing chamber formed within the casing disposed at right angles to the longitudinal axis of the casing and the main chamber formed therein, and a liquid and an air inlet passage formed in the casing in communication with the annular chamber and disposed on a tangent with relation thereto.

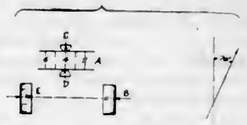
1,476,590. CUBOID-MUSCLE DEVELOPER. WILLIAM C. BURNS, Albany, Oreg. Filed July 26, 1922. Serial No. 577,660. 4 Claims. (Cl. 36—71.)



1. A cuboid support and muscle developer for shoes, comprising a flexible leather body whose heel end is round and whose opposite end is struck at a curvature and beveled inwardly, said body having its outer edge straight and both edges of the body and the heel end thereof being beveled, a flexible reinforcing strip glued on the under face of the body at points adjacent to the rounded outer end thereof and inward of the heel portion of the body, and elevating strips secured transversely on the reinforcement, all as and for the purpose set forth.

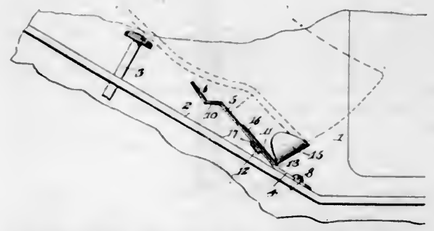
4. A cuboid bone support and muscle developer, comprising a leather body whose outer edge is straight and whose edges and ends are beveled whereby the same are snugly received in the shoe to rest on the sole thereof and the straight edge to be received in the bulged portion on the outer side of the shoe, and also whereby the outer beveled end of the body will rest directly on the insole, a reinforcing strip secured on the under face of the body adjacent to the outer end thereof for elevating the body at the portion thereof on which the cuboid bone rests, said strip having its rear end provided with a transverse depression which terminates adjacent to the outer edge thereof, and the portions between the ends of the reinforcing strip, the body and the insole of the shoe providing vacuum spaces for preventing the slipping of the support in the shoe.

1,476,591. DIFFERENTIAL GEAR FOR GONIOMETRIC APPARATUS. ALDO CASTIGLIONI, Rome, Italy. Filed May 10, 1919. Serial No. 296,136. 5 Claims. (Cl. 33—46.)



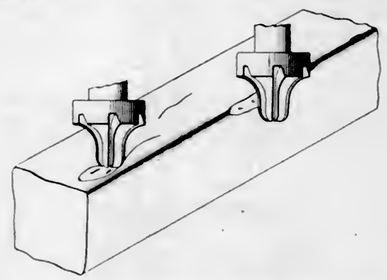
1. In a device of the class described, a base, a sight support rotatably mounted thereon, a ring adjustably mounted on said support, said ring being provided with a double scale, having a common starting point for two adjustments, said base and sight support being provided with pointers cooperating with said scale, and means on said base for rotating said sight support relative to said base.

1,476,592. FOOT REST. IDDO E. CARLSON, Elkhart, Ind. Filed Feb. 3, 1923. Serial No. 616,800. 6 Claims. (Cl. 74—81.)



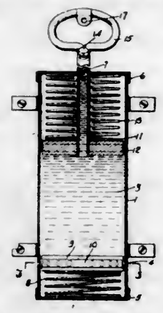
1. A foot rest comprising a base member formed of an intermediate portion and upper and lower end portions, said lower end portion adapted to be fixed to a support, said intermediate and upper end portions disposed at an upward inclination with respect to the lower end portion, a holding member connected to said intermediate portion, and a locking element engaged in said intermediate portion and cooperating with said holding member.

1,476,593. METHOD OF REMOVING SURFACE FAULTS FROM BILLETS. JOHN JAMES COFFEY, Bethlehem, Pa., assignor to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Oct. 30, 1920. Serial No. 420,707. 3 Claims. (Cl. 29—81.)



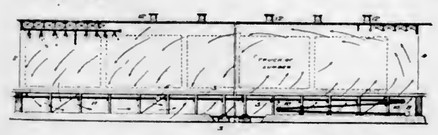
1. The method of removing seams from billets and similar articles consisting in removing from the body of the billet the metal adjacent the seam and forming its marginal walls, by means of a cutting tool, the cutting edge of the tool moving, in its cutting action, substantially transversely of the seam.

1,476,594. FIRE EXTINGUISHER. CLAUDE A. CONOVER, Newburgh, N. Y. Filed June 21, 1921. Serial No. 479,265. 5 Claims. (Cl. 169—29.)



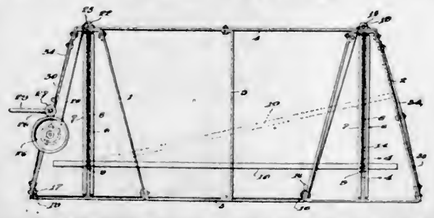
1. A fire extinguisher of the character described, comprising a fire extinguishing fluid container provided with an annular series of openings adjacent one end thereof, means for normally closing said openings and spring-actuated means for causing said covering means to be moved away from the openings and allow the fire extinguishing fluid in the container to be discharged through said openings.

1,476,595. PIPE SYSTEM FOR KILNS. FRANK M. CREIGHTON, Americus, Ga., and CHARLES J. WILLIAMS, Jr., Jacksonville, Fla., assignors to Moore Dry Kiln Company, Jacksonville, Fla., a Corporation of Florida. Filed Nov. 20, 1920. Serial No. 425,589. 4 Claims. (Cl. 34—46.)



1. A dry kiln comprising a housing through which the material to be dried is fed from one end to the other and which housing is open throughout its length for the passage of said material, the entrance zone of said housing being unprovided with heating means but provided with steam moistening means, for moistening the material heating means for the remainder of said housing means so arranged as to disseminate a minimum of heat adjacent said entrance zone and a maximum of heat adjacent the discharge end of said housing, the whole so arranged that material is steamed but not dried upon its entrance into said housing and is subjected to increasing degrees of heat as it progresses towards the discharge end thereof.

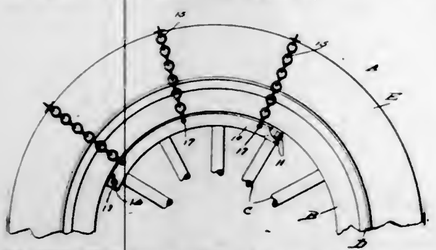
1,476,596. VEHICLE LIFTING DEVICE. JAMES V. CULLEN, Chicago, Ill. Filed Apr. 18, 1922. Serial No. 554,598. 2 Claims. (Cl. 254—144.)



1. In a vehicle support, a plurality of substantially frusto triangular shape end supports, braces connecting said supports, a pair of vertical guides carried by each

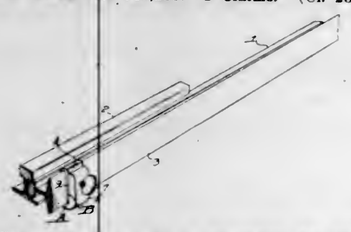
of said supports, lifting bars having their ends seated in said guides, vehicle supporting bars carried by said lifting bars, cables detachably connected to said lifting bars, winding drums, means for rotating said winding drums to wind said cables thereon or unwind therefrom for raising or lowering said lifting bars and vehicle supporting bars.

1,476,597. EMERGENCY MUD BOOT. CONWAY DABNEY, Crystal Springs, Miss. Filed Dec. 26, 1922. Serial No. 609,020. 1 Claim. (Cl. 152—14.)



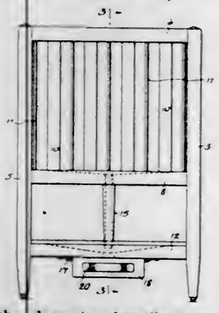
An extricating device of the character described comprising a pair of elongated bars provided at one end with hooks engageable with a spoke of a wheel, means for detachably connecting the other ends of the bars together, and a plurality of cross chains connected with the bars and engageable against the periphery of a tire.

1,476,598. SLIDE-RAIL CLAMP. JAMES W. DANDRIDGE and GEORGE HANCE, Garrison, W. Va. Filed July 3, 1923. Serial No. 649,285. 2 Claims. (Cl. 238—10.)



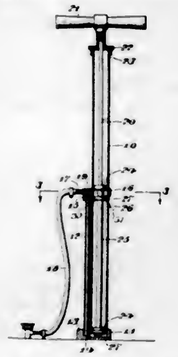
1. The combination with the permanent and extension rails of a mine track, of a clamp consisting of fixed and loose members of which the former is provided with a hooked end for engaging the base of the permanent rail and the latter with a hooked end for engagement with the base of the adjustable rail, and a common clamping means for securing both elements in position.

1,476,599. UMBRELLA STAND. GEORGE DE WITT, Gloversville, N. Y. Filed Feb. 8, 1923. Serial No. 617,830. 1 Claim. (Cl. 25—33.)



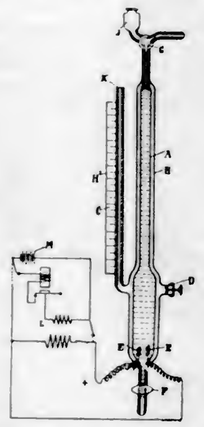
A device of the character described comprising a plurality of corner posts, a horizontal partition securing said corner posts together, means for dividing the space above said partition into a plurality of umbrella-receiving compartments, a second partition arranged below said first-mentioned partition and serving as a rack for rubber-shoes and the like, a water receptacle removably carried by the under face of said last-mentioned partition, an opening formed in said last-mentioned partition and a pipe leading from said first-mentioned partition and disposed directly over said opening for conveying the drip water from each of said partitions to said receptacle.

1,476,600. PUMP. WILLIAM DICKENS, Philadelphia, Pa.; Robert Dickens, administrator of said William Dickens, deceased, assignor of one-third to Mamie A. Barnes, and one-third to Edward Barnes, both of Philadelphia, Pa. Filed Sept. 25, 1920. Serial No. 412,674. 1 Claim. (Cl. 230—27.)



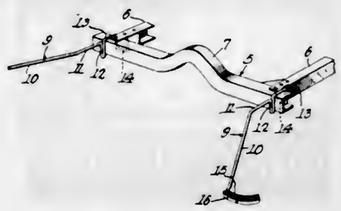
A pump comprising a cylinder, a transverse partition therein, a separate piston in each section of said cylinder, a single piston rod carrying both of said pistons, a nozzle, and means for conducting air from both sections of said cylinder to said nozzle simultaneously.

1,476,601. METHOD OF AND APPARATUS FOR DETERMINING THE HEAT VALUE OF GASES. OTTO DOMMER, Karlsruhe, Baden, Germany. Filed Feb. 17, 1921. Serial No. 445,912. 5 Claims. (Cl. 73—184.)



1. The herein described method of determining the heat value of gases, which consists in generating a standard gas within a container, successively causing combustion of the standard gas and the gas to be tested within the said container, and separately measuring the heat set free by the combustion.

1,476,602. AUTOMOBILE FENDER BRACE. FOREST M. DUNCAN, Cotter, Iowa, assignor of twenty-five and one-half per cent to Fred M. Molsberry, Columbus Junction, Iowa, and twenty-five and one-half per cent to Frank L. Vanhorn, Cotter, Iowa. Filed Aug. 22, 1922, Serial No. 583,591. Renewed Oct. 25, 1923. 2 Claims. (Cl. 280—152.)



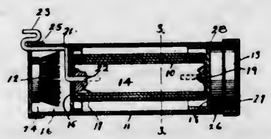
2. A device for supporting the rear fender of an automobile, comprising a rod bent near one end to form an inverted U-shaped socket extending longitudinally of the rod, said inverted U-shaped socket being arranged upon the top of the transverse member of the chassis and bodily receiving the same, said rod having its free end extended from the forward end of the socket for producing with such forward end a U-shaped transverse socket disposed at substantially a right angle to the longitudinal socket and facing upwardly and mounted upon the bottom of the longitudinal member of the chassis and bodily receiving the same, and means for connecting the rear end of the rod with the rear fender of the automobile.

1,476,603. CHAIN BELT FOR DRIVING PURPOSES. HAROLD STUART WORTLEY FIRMINGER, London, England. Filed Apr. 16, 1923. Serial No. 632,470. 3 Claims. (Cl. 74—64.)



1. A chain belt comprising a standard chain consisting of chain elements and pins pivotally connecting said elements together and a plurality of metallic elements of substantially U section straddling and secured thereto, each by engagement of its two sides respectively with opposite projecting ends of the chain pins, said metallic elements being retained in situ by virtue of their own strength preventing the spreading and consequent disengagement of the said sides from said pins.

1,476,604. SHOE-POLISHING KIT. LOUIS J. FORBMAN, Jamaica, N. Y. Filed Nov. 17, 1922. Serial No. 601,568. 4 Claims. (Cl. 242—55.)



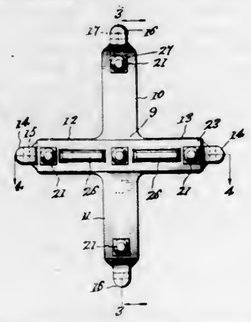
3. A shoe polisher comprising a cylinder having a fixed transversely disposed wall interiorly thereof, a roller, a flanged disk removably attached to said roller and of a size to be fitted in said cylinder and disposed transversely thereof parallel to said wall, a crank having a portion attached to said roller to serve with a means carried by said roller as an axle for said roller which may be rotated upon the manipulation of said crank, and a polishing strip attached to and capable of being wound upon said roller in the manipulation of said crank.

1,476,605. AUTOMOBILE BUMPER. CHRISTIAN GIRL and WAYNE E. DUNSTON, Kalamazoo, Mich. Filed Jan. 31, 1923. Serial No. 615,984. 9 Claims. (Cl. 293—55.)



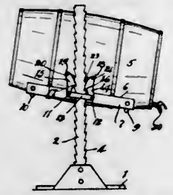
8. A bumper having end portions adapted to extend across the fenders of an automobile and having an intermediate portion between such end portions and located forwardly of the rear parts of such end portions, said intermediate portion and the end portions providing a space at the rear of the intermediate portion for the reception of a tire.

1,476,606. ANTISKID SHOE. RALPH F. HALL, Lead, S. Dak. Filed May 4, 1923. Serial No. 636,607. 1 Claim. (Cl. 152—14.)



A device as described comprising a metallic body having circumferential and transverse arms provided with eyes at their ends and threaded perforations, calks having threaded shanks screwed into said perforations, and a traction device comprising a bar having perforations to receive the shanks of certain of the calks and having lugs extending outwardly to catch into the ground or mud, said calks having shoulders to engage the portions of the bar about the perforations whereby to hold the traction device in place.

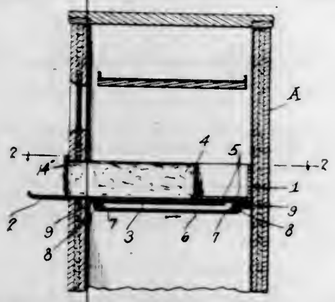
1,476,607. BARREL HOIST. WILHELM EGADIUES HANSON, Lajord, Saskatchewan, Canada. Filed July 29, 1922. Serial No. 578,492. 6 Claims. (Cl. 254—105.)



1. In a hoist, a pair of opposed spaced upright stationary rack bars having similar rack teeth located at the sides thereof, a carrier interposed between the bars,

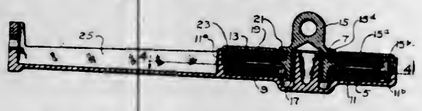
pairs of dogs supporting the carrier from the teeth of the rack bars, and a control mechanism associated with the dogs and carrier causing the dogs to climb or descend the rack bars, dependent upon the amount of up and down swing given the ends of the carrier.

1,476,608. COMBINED REFRIGERATOR AND CHEESE CUTTER. WILLIAM H. HARDEN, Mantee, Miss. Filed June 12, 1922. Serial No. 567,873. 1 Claim. (Cl. 31—68.)



An attachment for a refrigerator comprising a casing arranged therein and extending through one wall thereof, a shelf internally formed with the bottom of the casing and extending beyond the walls of the refrigerator, a handled knife pivotally secured to the outer wall of the refrigerator and normally resting upon the shelf to provide a front wall of the casing, an angle block arranged in the casing for slidable movement and being adapted to engage a piece of material for moving the latter toward the knife so it may be cut, a pair of spaced shafts journalled in the refrigerator adjacent each end of the lower end of the casing, a sprocket carried by each shaft, a chain trained over the sprocket, spaced projections depending from the angle block and carrying the ends of the chain respectively, means for revolving one of said shafts to impart a forward motion to the angle block and means for limiting the revolving means at any desired point.

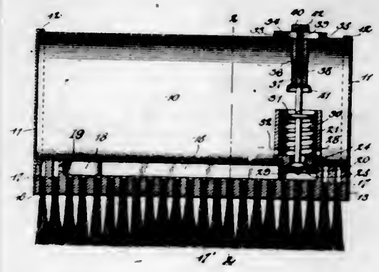
1,476,609. SHOCK ABSORBER. ROBERT H. HASSLER, Indianapolis, Ind. Filed May 25, 1922. Serial No. 563,538. 8 Claims. (Cl. 188—130.)



1. A shock absorber for vehicle springs comprising in combination, a casing, friction discs disposed within the casing in oscillatory frictional relation therewith, a hub member concentric with the axis of oscillatory movement and projecting through one side of the casing, means for rigidly connecting the friction discs with said hub member, means for rigidly connecting the hub externally to a vehicle frame element, and an actuator arm rigidly connected to said casing.

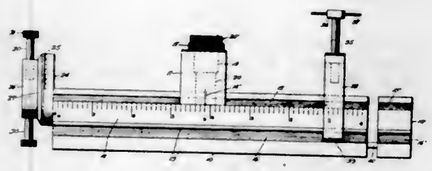
1,476,610. SAFETY FOUNTAIN BRUSH. WILLIAM CHAS. HERBERT and FRANCIS X. SMITH, Brooklyn, N. Y. Filed Feb. 19, 1921. Serial No. 446,313. 1 Claim. (Cl. 15—138.)

A fountain brush comprising a cylindrical tank, a bristle carrying back having its upper face rounded to conform with the curvature of said tank, the closure ends of said tank being extended downwardly at the ends of the brush back for rigidly connecting the brush back and the tank, the rounded face being provided with



spaced recesses in communication with each other through a groove provided in said back, and ducts leading from said recesses and grooves to the bristles.

1,476,611. V-BLOCK WORKHOLDER OR DRILL JIG. GUSTAVE H. HINES, Chicago, Ill. Filed Mar. 28, 1921. Serial No. 454,937. 11 Claims. (Cl. 77—62.)



1. A jig comprising a V-block, means slidably engaging in the sides of the block for clamping a length of cylindrical stock lengthwise of said V-block, a drill guide engaging in the sides of and movable longitudinally of said V-block, means for permitting of the accurate adjustment of said drill guide to predetermined distances between the center of the holes to be drilled in the stock, and a vertically movable bracket at one end of said V-block and carrying circumferentially adjustable stock holding means.

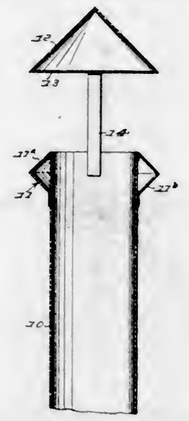
1,476,612. CONFECTION. FREDERICK C. HITCH, Brooklyn, and ARNOLD H. PETER, New York, N. Y., assignors to Royal Baking Powder Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 3, 1920. Serial No. 370,979. 3 Claims. (Cl. 99—11.)

3. A confection comprising coffee ground to an impalpable powder, a substance carrying oil expressed in reducing the coffee to the powder, and a fondant.

1,476,613. CHIMNEY CAP. ADOLF HODEL, Wahpeton, N. Dak. Filed Aug. 26, 1921. Serial No. 495,644. 1 Claim. (Cl. 98—4.)

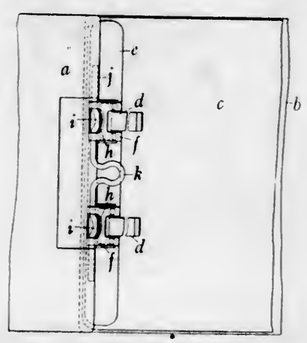
A chimney cap in combination with a cylindrical flue, a double beveled annular cornice disposed in surrounding relation to the flue at the upper edge of the latter, the upper and under beveled sides of the cornice being substantially equal in width and having their free edges vertically spaced a distance greater than the width of said sides, said cornice and cap having substantially the

same radial extent, said cap being disposed above the flue at a distance not less than the diameter of the flue,



whereby the plane of the upper bevel of the cornice will intersect the plane of the bottom of the cap at a point without the cross-sectional area of the flue.

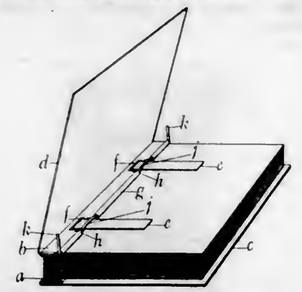
1,476,614. LOOSE-LEAF BINDER. WALTER REGINALD HORSFIELD, Birmingham, England, assignor to Morland & Impey Limited, Birmingham, England. Filed Feb. 1, 1922. Serial No. 533,403. 3 Claims. (Cl. 129—41.)



1. A loose leaf binder including a cover board, a flexible thong connected to said cover, a thong gripping device comprising a folded sheet metal main portion formed with a slot for the passage of the thong, a transversely movable clamping plate arranged in said main portion and movable toward and away from one of the walls of said slot for clamping the thong in the slot, a second cover board, a pintle for hingedly securing the second board to said thong gripping device, and a rotatable cam associated with said pintle for forcing the clamping plate towards the thong.

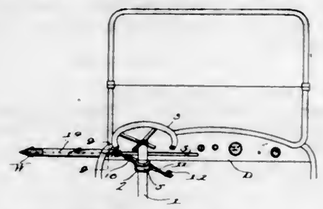
1,476,615. LOOSE-LEAF BOOK OR BINDER. WALTER REGINALD HORSFIELD, Birmingham, England, assignor to Morland & Impey Limited, Birmingham, England. Filed May 11, 1922. Serial No. 560,236. 5 Claims. (Cl. 129—41.)

1. In loose leaf books or binders of the type specified, a thong, thong securing means comprising a clamping bar provided with a slot through which the thong extends, and a gripping piece permanently spaced from said slot



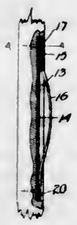
and adapted to cooperate with the adjacent edge of the clamping bar for abruptly bending said thong and pinching the latter between the gripping piece and said edge.

1,476,616. DIRECTION SIGNAL. WARREN ALFEED JACOBUS, Wood River, Nebr. Filed Nov. 1, 1921. Serial No. 512,001. 7 Claims. (Cl. 74—39.)



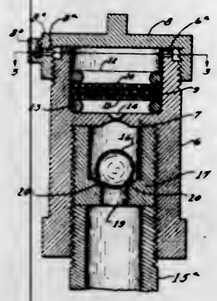
3. In a signal actuator for use with signals on automobiles, an extensible actuating lever horizontally rockable on the steering post of the automobile, one of the arms of the lever being connected to the signal, the extensible actuating lever permitting the said arm to vary in length to compensate for the rocking movement of the lever, and an operating handle formed on the other arm.

1,476,617. ATTACHMENT FOR WINDOWS. JOHN K. JOHNSON, Washington, D. C., assignor of one-half to William K. Reeve, Washington, D. C. Filed Dec. 15, 1922. Serial No. 607,203. 1 Claim. (Cl. 292—76.)



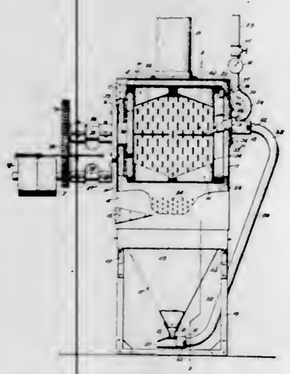
An attachment for windows comprising a flat spring, an elongated backing member therefor having at its upper and lower ends pairs of outstanding ears bent reversely upon themselves at their point of contact with the backing member to receive therebetween the respective ends of the flat spring, a tack passing through registering holes in the spring and backing member to support one end of the attachment, and a tack passing through the backing member only to support the other end, the free end of the spring readily passing over the last said tack, substantially as set forth.

1,476,618. VACUUM RELIEF AND BACK-PRESSURE VALVE. ROBERT W. JONES, London, Ohio. Filed Nov. 29, 1920. Serial No. 426,967. 7 Claims. (Cl. 137—122.)



1. In a steam heating system, an air relief valve connected with said system, said valve having two chambers and an air orifice connecting the same, one of said chambers having an air inlet, and a check valve in the other chamber to close said orifice under steam and back pressure, said orifice being otherwise open to admit air, said latter chamber having a permanently open air outlet leading to the system.

1,476,619. SAND-BLAST MACHINE. ISAAC M. KEMP and EDWARD C. WIEDERHOLD, Williamsport, Md. Filed Oct. 5, 1921. Serial No. 505,584. 4 Claims. (Cl. 51—13.)



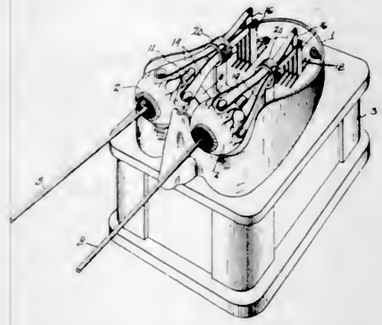
4. In a sand blast apparatus, an enclosing casing having an opening through one of its end walls, a movable door for said casing opening and having a transverse opening in turn, a closure for the transverse opening of said door, a nozzle device carried by the closure for said door opening, a screen drum mounted for rotation in said casing and into which the discharge tip of said nozzle extends, and means for adjustably coupling said nozzle device to said closure to enable the direction of the discharge of the nozzle to be directed vertically and obliquely.

1,476,620. ENSILAGE PACKER. EDMUND D. KILMARTIN, Ada, Mich. Filed June 18, 1921. Serial No. 478,714. 4 Claims. (Cl. 100—57.)

1. A device of the character described comprising a bearing device adapted to be secured upon the top of a silo, a member journaled with respect to said bearing member and rotatable within the silo, means for driving said member to effect rotation thereof, a horizontal shaft journaled within said member and formed with a crank, means for driving said shaft simultaneously with the rotation of said member, an adjustable flexible member connected with said crank, and a tamping member carried by said flexible member.

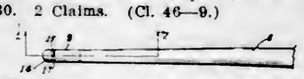


1,476,621. OPTICAL DEMONSTRATING APPARATUS. ALCUIN E. KINTNER, Painesville, Ohio. Filed June 14, 1922. Serial No. 568,133. 8 Claims. (Cl. 35—16.)



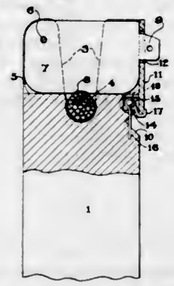
1. In apparatus of the character described, the combination of an eyeball member supported for oscillation about an interior point, means normally positioning said member about such point, and motor means adapted to oscillate said member in different planes about such point.

1,476,622. CUE TIP. ARTHUR R. KIRK, Cuyahoga Falls, Ohio, assignor of one-half to Howard P. Moore, Cuyahoga Falls, Ohio. Filed Sept. 8, 1920. Serial No. 408,830. 2 Claims. (Cl. 46—9.)



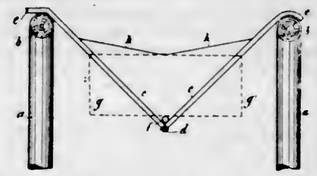
1. A billiard cue comprising a tapered cue rod, a ferrule fitted on the small end thereof so as to extend therebeyond, internal screw threads in said ferrule a tip base having an externally threaded portion adapted to be screwed into said ferrule, an outwardly protruding portion coaxially arranged on said base, a head on said protruding portion and a pad of resilient material vulcanized to said base and to said protruding portion.

1,476,623. CLOTHESLINE POLE. EDWIN H. KREUSER, Kenosha, Wis. Filed May 20, 1922. Serial No. 562,417. 1 Claim. (Cl. 68—12.)



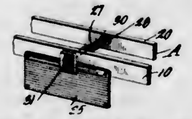
A clothes pole having a transverse notch which is of V-shaped formation and whose lower wall is rounded and which also has an opening arranged rightangularly with respect to and traversing the notch, said notch being of a greater depth than the opening and designed to receive therein a clothes line, a bridge plate pivotally secured in the opening to one side of the notch and having a lug extension on one of its ends, and a spring influenced latch plate pivotally supported on the pole and having an opening therein to receive therethrough the lug for locking the bridge plate in bridging position with respect to the notch.

1,476,624. METHOD OF AND MEANS FOR EXTINGUISHING OR SUFFOCATING EXPLOSIONS IN MINES. HERMANN KRUSKOPF, Dortmund, Germany. Filed July 7, 1920. Serial No. 394,597. 10 Claims. (Cl. 169—2.)



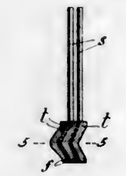
1. A fire extinguisher, comprising pairs of arms, a connecting element adapted to pivot one end of each pair together, the free ends of the arms having hanger extension adapted to rest on supporting means, a member carried by the arms, and a receptacle for fire extinguishing material balanced on said member.

1,476,625. AUTO ACCIDENT IDENTIFIER. WILLIAM H. LEONARD, San Antonio, Tex. Filed Mar. 8, 1923. Serial No. 623,809. 3 Claims. (Cl. 116—32.)



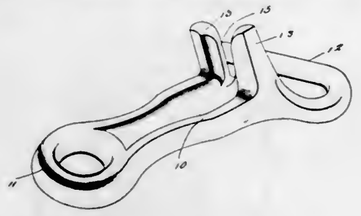
1. An automobile identification device comprising a main supporting bar adapted to be attached to an automobile, a sliding bumper plate supported by the supporting bar, means normally holding the sliding bumper plate in spaced parallel relation to the supporting bar, a clamp connected with the bumper bar for sliding movement therewith and adapted to engage the rear face of the supporting bar, a license plate arranged to be clamped between the clamping plate and the rear face of the supporting bar, whereby upon inward movement of the bumper bar the said clamping plate will be moved from out of engagement with the license plate and supporting bar, as and for the purpose specified.

1,476,626. MEANS FOR FASTENING THE BLADES OF STEAM AND GAS TURBINES. FRANZ LÖSEL, Brunn, Czechoslovakia. Filed Aug. 17, 1921. Serial No. 493,123. 1 Claim. (Cl. 253—77.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



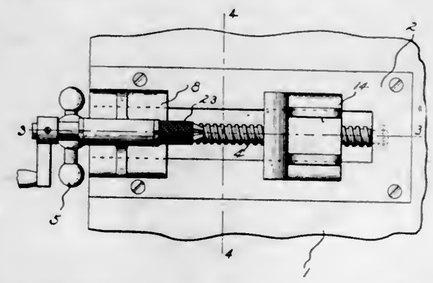
Fastening means for blades of steam or gas turbines, comprising a rotor provided with grooves having shoulders, packing means, blade roots inserted in the said grooves between the said packing pieces, which blade roots are bent from the surface of the blade, are longitudinally undulated in an obtuse angle and have a constant cross-sectional area, the said undulations extending over the entire width of the blade roots, between packing pieces similarly constant in cross-sectional area but thicker than the packing pieces, as set forth.

1,476,627. HOOK. EMIL LUEBKE and CHARLES LUEBKE, Neillsville, Wis. Filed Dec. 28, 1922. Serial No. 609,404. 2 Claims. (Cl. 24—230.5.)



1. A hook of the character described comprising an elongated shank member terminating at one end in an eye and having its other end formed as a loop, and a pair of upstanding horns rising from the juncture of the shank with the side of said loop, said horns being spaced apart to define a slot, and the corners of the horns being curved to define a flaring entrance opening.

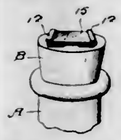
1,476,628. BENCH VISE. WALTER MCDANIEL, FRANK E. DAVIS, and EUGENE F. CONNOR, Bremerton, Wash. Filed Sept. 29, 1922. Serial No. 591,397. 3 Claims. (Cl. 81—41.)



1. A device including a rectangular frame designed to be mounted in a longitudinal slot in a body, upper and lower outwardly extending flanges extending from opposite sides of the frame and adapted to embrace the sides of the

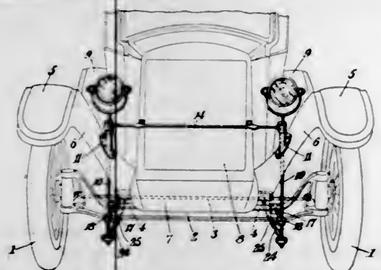
body adjacent the slot, a stationary jaw arranged at one end of the frame, a movable jaw slidable in the frame and means for operating the movable jaw for association with the fixed jaw.

1,476,629. MARKER. EDWARD P. MCOLVIN, Wolf Summit, W. Va. Filed Sept. 30, 1922. Serial No. 591,677. 2 Claims. (Cl. 40—4.)



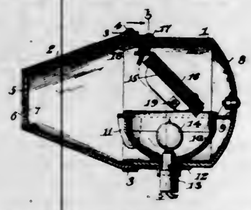
1. A marker of the character described comprising a plate like body folded upon itself to define top and bottom panels, the top panel being formed at opposite edges with reflexly curved retaining flanges, a legend bearing element engaged upon the top panel and retained against lateral displacement by said flanges, the bottom panel of the body being formed to define a tongue pressed from the material thereof and adapted to be penetratingly engaged within a bottle stopper.

1,476,630. HEADLIGHT-ADJUSTING MECHANISM. WILLIAM A. MARTIN and HARRY KEGEL, Brooklyn, N. Y., assignors of one-third to said Martin, one-third to said Kegel, and one-third to Frank B. Cameron, Brooklyn, N. Y. Filed Mar. 11, 1922. Serial No. 542,840. 4 Claims. (Cl. 240—62.)



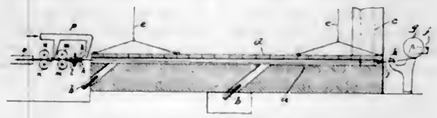
1. In a vehicle, a headlight adjusting mechanism comprising a headlight supporting rod extending upwardly through the fender of the vehicle, means for supporting the rod from the frame of the vehicle, means for guiding the rod through the fender, said supporting means including a hub surrounding the rod and pivoted on an axis extending longitudinally of the vehicle to permit lateral shifting of the guided portion of the rod relative to the supported portion thereof, and means for turning the rod.

1,476,631. AUTOMOBILE HEADLIGHT. ROBERT MEISNER and FERRIN A. ROB, Traer, Iowa. Filed Sept. 7, 1922. Serial No. 586,704. 2 Claims. (Cl. 240—41.)



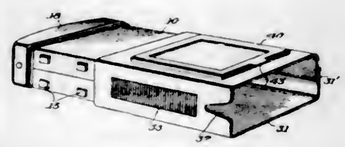
1. In a light projecting apparatus, a cylindrical casing having a closed rear end, a frusto-conical casing aligning with and secured at its rear end to the open end of the said other casing and provided with a removable semi-circular light emitting means at the front end thereof, a vertically positioned concave reflecting element arranged within and supported by the lower part of said cylindrical casing, a vertically disposed lamp mounted within and centrally of said reflecting element, a horizontally disposed support carrying an upstanding bracket at the rear thereof for attachment with said closed rear end, said support surrounding said reflecting element at its upper edge, oppositely disposed brackets carried by the cylindrical casing near its front edge for further securing said support, a supporting plate carried by the cylindrical casing above the reflecting element having its opposite edges downturned to provide attaching flanges, said flanges having apertures for the passage of supporting bolts, and a mirror retained by said supporting plate at an inclination with respect to the reflecting element for projecting the light rays through the said light emitting means.

1,476,632. METHOD OF MANUFACTURING TUBES. JOHN W. MOON, Lansdowne, Pa., assignor to Fretz-Moon Tube Company, Butler, Pa., a Corporation of Pennsylvania. Filed Mar. 14, 1921. Serial No. 452,267. 5 Claims. (Cl. 78—83.)



5. The process of manufacturing metal tubing, which comprises forming a metal strip into a tube and simultaneously and continuously moving said strip through a relatively long enveloping heating medium to effect the gradual heating of the same from substantially cold throughout its entire cross-section and raising at least its edges to a welding heat and while so heated and as the strip continues to advance welding the edges together to form a tube.

1,476,633. MATCH BOX. WILLIAM Z. MUSGRAVE, Cincinnati, Ohio. Filed Apr. 23, 1921. Serial No. 463,795. 2 Claims. (Cl. 206—36.)

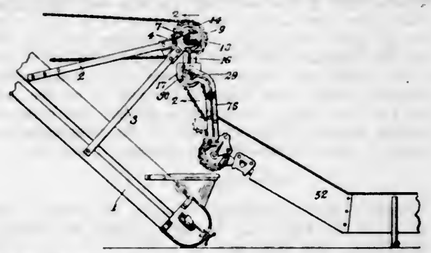


1. A device of the class described, comprising a receptacle formed of sheet material bent in the form of a box, the approaching edges of the sheet being provided with slots spaced inwardly from said edges, a strip including laterally extending ears, the ears being proportioned to pass through the aforesaid slots and to be bent into intimate contact with the outer wall of the box, and means for closing the ends of said receptacle, said box being formed with a bead projecting from the outer surface, and a tubular element within which the box is slidable, said bead preventing engagement of the ears with the end of the tubular element.

1,476,634. SWIVEL CONNECTION FOR ELEVATOR CONVEYERS. LEONARD B. NEIGHBOUR, East Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Aug. 22, 1921. Serial No. 494,082. 7 Claims. (Cl. 198—203.)

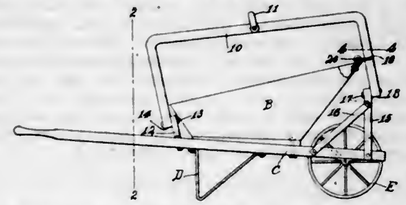
1. In a conveyer mechanism, in which a conveying hopper is pivotally connected with the conveyer and operated by an interposed train of gearing, the combination

therewith of a support for said gearing supported on the conveyer and conveying hopper, said support consisting



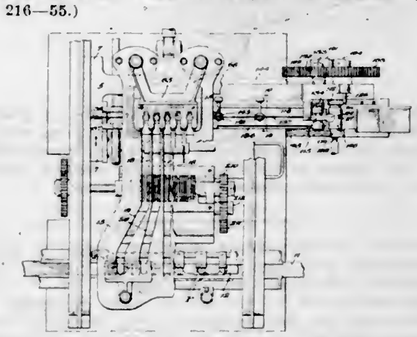
of two parts, one part having a cylindrical portion rotatably supported on a cylindrical portion on the other part, and means to secure the two parts together.

1,476,635. ATTACHMENT FOR WHEELBARROWS. WALTER M. NEWTON, Dover, Del. Filed Oct. 23, 1922. Serial No. 596,389. 3 Claims. (Cl. 294—68.)



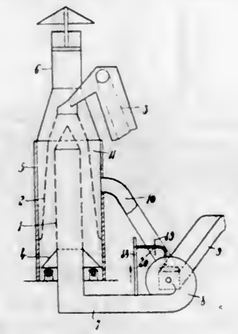
1. Means for converting a wheel barrow into a dumping hoisting bucket, comprising bracket members designed to be secured upon the wheel barrow bars at the opposite ends of the receptacle body, and a bail pivotally connected with said brackets and provided with hoisting cable attaching means.

1,476,636. LABELING MACHINE. CHARLES H. NITSCH and WILLIAM A. WEIGHTMAN, Logan, Philadelphia, Pa., assignors to Stokes & Smith Company, Summerdale, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 1, 1922. Serial No. 540,288. 52 Claims. (Cl. 216—55.)



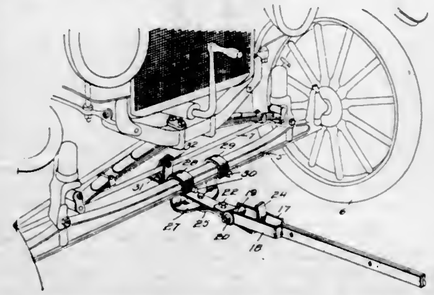
1. In a labeling machine, in which a label strip is associated with a plurality of label carriers, the strip severed to free the individual labels, and the labels are adhesively conditioned, separated by divergent movement of the carriers during their advance to labeling position and applied to a row of packages at labeling position, positive label gripping means associated with the label carriers, and means for advancing a label strip consisting of a series of connected labels and positioning the strip below the label carriers ready for grasping by the gripping means.

1,476,637. DRYING PLANT. OTTO NORDSTRÖM, Sundsvall, Sweden. Filed July 7, 1922. Serial No. 573,448. 2 Claims. (Cl. 34—34.)



1. In a drying plant, the combination with a drying tower, comprising a drying chamber to be passed through by the material to be dried as well as by hot drying gases, and further comprising a space to be passed by the drying gases after their passage through the drying chamber, of means for causing the hot gases to enter the drying chamber, a connection extending between said last-mentioned space and the inlet of said means, a throttling member inserted in said connection, and an adjusting device to control said throttling member according to the temperature of the gases when leaving the said means.

1,476,638. TOWING DEVICE. JOSEPH W. OSBORN, Lake City, Iowa. Filed Mar. 21, 1921. Serial No. 453,973. 2 Claims. (Cl. 280—33.55.)

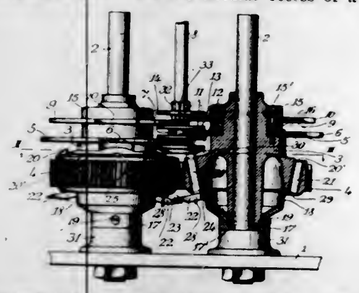


1. In a towing connection for motor vehicles, a draw bar for attachment to the rear axle of a towing machine and provided with a yoke, a fastening element secured to the arms of said yoke and forming a pivotal connection for said bar, a strap embracing said element and loosely connected thereto, a clamping member carried by the free end of said strap for attachment to a connecting rod of the vehicle being towed, an attaching member to be secured to the front axle of the towed machine and to said strap, a hooked bar lying below the strap and attaching member and extended upwardly between the arms of said yoke, and a common fastening element securing said strap attaching member and hooked bar.

1,476,639. BRAIDING MACHINE. XAVER PFRUNDER, Wohlen, Switzerland. Filed July 9, 1923. Serial No. 650,392. 8 Claims. (Cl. 96—9.)

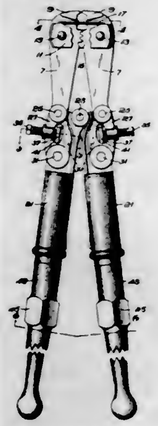
1. In a braiding machine, the combination with a plurality of spool-carriers each having a circular recess provided in their lower ends, of drivers provided with gear

wheels and with notches for the reception of the spool-carriers, and locking means comprising a pin guided in the body of the gear wheel, the upper end of said pin adapted to enter into the circular recess of a spool-



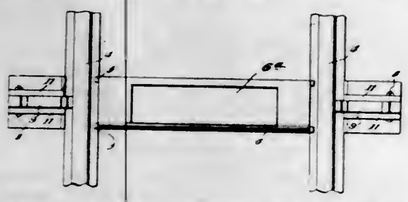
carrier and the lower end having a plate rigidly fixed thereto for operating the locking means and effecting the transfer of a spool-carrier from one driver to an adjacent driver.

1,476,640. CUTTING TOOL. HENRY K. PORTER, Brookline, Mass. Filed Dec. 28, 1921. Serial No. 525,342. 24 Claims. (Cl. 81—199.)



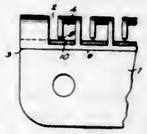
1. A tool comprising cooperating relatively swinging jaws and a flat spring having bifurcated ends embracing the jaws between their pivot points and working faces and having a central portion interposed between work entered into said jaws and the joints between them.

1,476,641. METALLIC RAILWAY TIE. GEORGE PRESS, Freedom, Okla. Filed June 7, 1922. Serial No. 566,444. 1 Claim. (Cl. 238—30.)



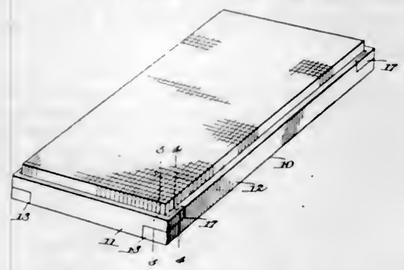
In a railway tie the combination with a body having spaced chairs, rail holding means at the inner sides of and above the bottoms of the chairs, means interposed between and connecting the chairs, and receptacles outwardly beyond the chairs, said receptacles open at their upper sides and outer ends and provided with interior inclined ribs; of rail securing members each having an upper open portion adapted to serve as a hand hold with an inner end shaped to rest between the base and head of a rail and each also having base flanges to rest on the upper side of one receptacle and a longitudinal apertured shank with inclined grooves to receive said ribs and also with a transverse aperture, and bolts detachably secured in the apertures of the receptacles and shanks to hold the rail securing members to the body.

1,476,642. KEY HOLDER. DANIEL I. REITER, New York, N. Y. Filed May 31, 1923. Serial No. 642,651. 5 Claims. (Cl. 150—40.)



1. A key holder construction, which includes a plate having a slot disposed transversely to one edge, said plate having an enlarged slot portion adjacent the main slot and connected thereto by a lateral passage, that portion of the plate adjacent said edge and said enlarged slot portion being rolled or bent on itself so that in the ultimate position of the plate the enlarged slot and the lateral passage lie adjacent the body of the plate, whereby they are to some extent obstructed.

1,476,643. SELF-LOCKING FRAME. WILLIAM B. RENNER, Ridgewood, N. Y. Filed July 24, 1922. Serial No. 577,125. 6 Claims. (Cl. 101—404.)

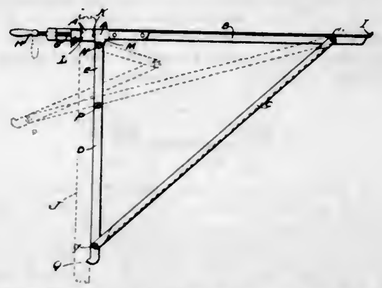


1. A type frame comprising bars in pairs of predetermined lengths, each pair of bars having parts which overlap portions of the other pair of bars respectively in the lengths of the bars and having portions which overlie each other cross-sectionally of the bars.

1,476,644. SCAFFOLDING BRACKET. EDSON B. REX, Bucyrus, Ohio. Filed Apr. 27, 1922. Serial No. 556,954. 1 Claim. (Cl. 304—33.)

A bracket for the purpose set forth comprising a horizontally disposed supporting beam having an upturned outer end, a rearwardly extending head member secured to the inner end of said beam and provided with a spurred clamping face and further with a depending ear at its inner end, an L-shaped jaw member integral with and projecting rearwardly from said head member and including a long and a short arm, a vertically disposed foldable supporting member formed of an upper and a lower section pivotally connected together, said upper section having its upper end pivotally connected with said ear and said lower section having its lower end spurred, an inclined brace member having its upper

end pivotally connected to said beam in proximity to the outer end of the latter and having its lower end pivotally connected to the lower end of said lower section,

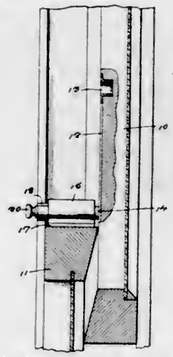


and a clamping screw threadably engaging with the short arm of the jaw member and provided with a spurred clamping head opposing said spurred clamping face.

1,476,645. RECOVERY AND REFINING OF SULPHUR. CHARLES STANLEY ROBINSON, Somerset West, Cape of Good Hope, South Africa. Filed July 13, 1922. Serial No. 574,754. 4 Claims. (Cl. 23—1.)

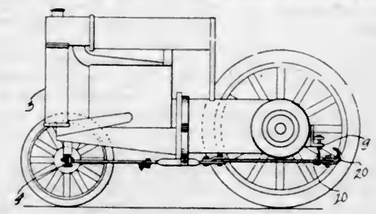
1. The process of recovering sulphur from materials containing sulphur in the free state, which comprises effecting the combustion of substantially the minimum proportion of the sulphur contained in the material treated to provide the whole of the heat required for the volatilization of the balance of the sulphur, leading away the sulphur vapours and condensing them.

1,476,646. SASH LOCK. HAROLD ARMEL ROY, Portland, Oreg. Filed Apr. 16, 1921. Serial No. 461,772. 1 Claim. (Cl. 292—60.)



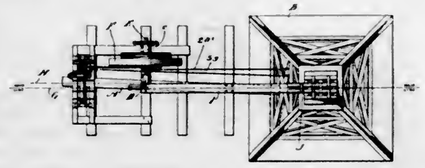
A window sash lock comprising in combination, a base plate adapted to be secured upon the lower sash of the window, a cylinder supported thereby and open at both ends, said cylinder having pairs of longitudinal grooves diametrically opposed, a spring pressed rod operating within said cylinder, a collar on said rod, said collar being arranged adjacent one end thereof and operating within the cylinder, a pair of longitudinally disposed ribs arranged on said rod adjacent the opposite end thereof and normally arranged to slide in said grooves, a metallic strip secured to the upper sash of the window and having sockets to receive said rod, a spring interposed between the collar and said rib for normally holding the rod in one of said sockets, and a knob formed on the outer end of the rod, whereby the latter may be retracted in turn to cause the inner end of said ribs to bear against the adjacent end of the cylinder, and hold the rod in an inoperative position.

1,476,647. DRAFT RIGGING FOR TRACTORS. MICKEL A. RUMSKY, Calipatria, Calif. Filed Jan. 3, 1922. Serial No. 526,729. 1 Claim. (Cl. 280—33.44.)



In a device of the character described, the combination with a body and front axle of a tractor, a triangular frame secured to said axle, a draw beam suspended from the draw bar cap of the tractor and in such a manner as to allow for vertical and side movement, a draft bar horizontally pivoted to said frame and said draw beam, said draw bar having a vertical central portion, a band encircling the transmission case of said tractor at a point substantially midway of the length of the tractor, and a pivotal connection between the vertical portion of said draw bar and said band.

1,476,648. SAND-REEL-OPERATING MECHANISM. RICHARD W. SAGE and HARRY R. BOUGHNER, Augusta, Kans. Filed Oct. 11, 1923. Serial No. 667,931. 4 Claims. (Cl. 255—11.)

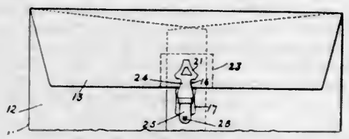


1. In combination with a standard well drilling rig, including the usual derrick having a sheave at its top, front jack post, back jack post, band wheel shaft and band wheel, of a sand reel operating mechanism comprising a driven shaft, a sand reel spool on the driven shaft, in line with the sheave, a sand line on the spool passing through the sheave so that there will be a direct pull on the line at all times, driving connections between the band wheel shaft and the driven shaft, the driving connections including slip clutch means whereby the band wheel shaft may slip with respect to the spool.

1,476,649. PEANUT BUTTER AND PROCESS OF MAKING SAME. HERBERT C. SCHAD, Los Angeles, Calif. Filed Nov. 24, 1922. Serial No. 603,098. 4 Claims. (Cl. 99—11.)

2. A process of making peanut butter which comprises shelling and blanching peanuts, then boiling in oil and then grinding.

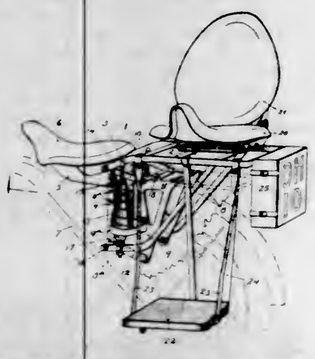
1,476,650. ENVELOPE CLASP. ERICH SCHINSCHOLL, Cincinnati, Ohio. Filed Aug. 31, 1922. Serial No. 585,419. 3 Claims. (Cl. 229—78.)



1. An envelope clasp comprising a latch member and a keeper member, said latch member comprising a tongue, said keeper member comprising a thin sheet plate having a cross-web struck up therefrom to form a slot at each side of said cross-web, said tongue received upon said

plate through said slots, said cross-web raised above the tongue-contacting surface of said plate substantially the thickness of said tongue to hold said tongue toward said plate, said tongue provided with an inwardly bent retaining lug, said plate provided with a shoulder contacted by said retaining lug, and said retaining lug and said shoulder distanced from said cross-web a distance to permit flexing of said tongue away from said plate to release said retaining lug from said shoulder, and means whereby to fix said members respectively to the flap and the body of an envelope.

1,476,651. SPRING SUSPENSION DEVICE FOR MOTOR CYCLES AND LIKE VEHICLES. GEORGE FREDERICK SHEPHERD, Edgbaston, Birmingham, England. Filed Apr. 23, 1923. Serial No. 634,004. 9 Claims. (Cl. 208—24.)



1. A seat suspension device for motor cycles, and like vehicles, comprising in combination, a movable carrier; a main rider's seat mounted on said carrier; means for springing said carrier with respect to its mounting on the vehicle; and means for constraining the motion of the carrier and rider's seat so that the carrier and rider's seat always move the same distance and remain spaced the same distance from each other, said means including a fulcrum for the carrier located at a point between the said carrier and the seat carried thereby.

1,476,652. CIGARETTE APPLIANCE. MORRIS MAYER SHORE, New York, N. Y. Filed May 12, 1920. Serial No. 380,754. 7 Claims. (Cl. 131—5.)



1. In a cigarette roller of the kind including a tube about which a cigarette paper is to be curled, and means for admitting tobacco to the inner end of the tube, the outer end of which tube is open, the combination with means for feeding such tobacco from the inner to the outer end of the tube, of a removable sleeve slidably and rotatably mounted on the tube, said sleeve having a longitudinal slot for approximately its entire length and said sleeve fitting the tube loosely enough to permit said paper to be curled around the tube between the latter and the sleeve.

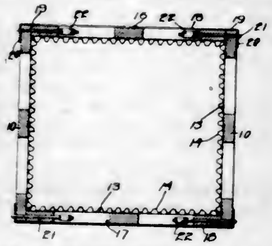
7. The cigarette roller defined in claim 1, wherein said feeding means is a worm rotatable inside said tube, and manually operable members are provided and permanently protruded beyond the inner end of said tube one for operation to rotate said worm independently of a rotation of the tube and the other for operation to rotate the tube independently of a rotation of the worm, said members being rotatable members concentrically rotatable.

1,476,653. SCREW DRIVER. JOSEPH R. STANTON, Newburyport, Mass. Filed May 17, 1922. Serial No. 561,640. 2 Claims. (Cl. 145—50.)



1. A screw driver of the character described, comprising a one-piece handle and a bit combined, with the bit having recesses on opposite faces each of angularly, bevelled, tapered contour extending from a median longitudinal line and diverging outwardly to the side edges with the latter defining the thickest portions of the bit, whereby to closely fit corresponding slots in a screw head and thus avoid slipping between the bit and the screw kerf during the operation of rotating the screw.

1,476,654. COLLAPSIBLE BOX. NAPOLEON ST. PETER, Fairfield, Me., assignor of one-half to Frederick E. Handy, Portland, Me. Filed Oct. 16, 1922. Serial No. 594,917. 8 Claims. (Cl. 217—12.)



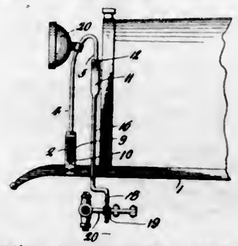
1. A collapsible box comprising separable top, bottom, side and end members, said members having a plurality of holes adapted to register with corresponding holes in contacting members and staples having legs adapted to be inserted in registering holes and frictionally retained therein, substantially as set forth.

1,476,655. INSECT DESTROYER. ALLAN J. STRICKLAND, Valdosta, Ga. Filed June 19, 1923. Serial No. 646,382. 8 Claims. (Cl. 43—145.)



2. In a poison dust distributor, a dust container having a screen bottom an agitator member loosely disposed within said container and having an orifice for the passage of the dust when the container is agitated vertically, a holding rod attached at one end to the said container and with a resilient element intermediate the ends.

1,476,656. DIRIGIBLE HEADLIGHT. BERT B. TABOR and TOM C. TABOR, Pottersville, Mo. Filed Dec. 13, 1922. Serial No. 606,669. 1 Claim. (Cl. 240—62.)



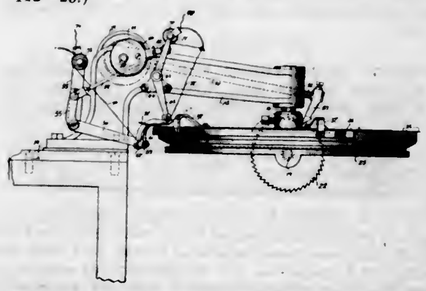
In combination, an automobile chassis, a bracket on the chassis, an inverted U-shaped supporting member having one leg revolvably and resiliently supported by the bracket, an L-shaped actuating arm resiliently connected with the other leg of the supporting member and a steering knuckle attached to the actuating arm.

1,476,657. PISTON RING. PAUL TAWNEY, Muskegon, Mich. Filed May 11, 1921. Serial No. 468,625. 2 Claims. (Cl. 74—109.)



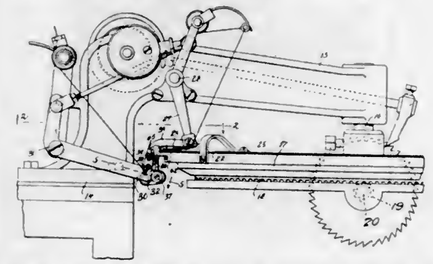
1. A piston packing ring consisting of complemental twin members each of which is of split ring form with the terminals thereof provided with longitudinal sliding faces disposed in parallelism with the face of the ring, each member being formed with transverse faces disposed obliquely to the face of the ring and set back from the extremities of the member, each member being provided diametrically opposite the split with a lateral projection having a sliding face paralleling the face of the ring and transverse abutting faces obliquely disposed with reference to the face of the ring, the longitudinal sliding faces and transverse faces of each member slidably engaging the corresponding faces of the lateral projection of the other member.

1,476,658. LOOP-SEWING MACHINE. ADELBERT L. TRAVER, Philmont, N. Y. Filed Aug. 28, 1919, Serial No. 320,491. Renewed June 8, 1923. 8 Claims. (Cl. 112—25.)



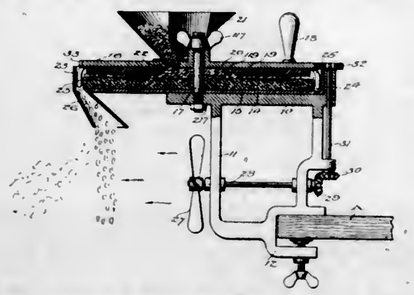
1. A loop sewing machine, comprising in combination; a suitable frame, a ring gear rotatably carried on the frame, impaling fringe radially disposed on the ring gear, a step-by-step driving mechanism adapted to rotate the ring gear and impaling fringe, bell crank members pivoted on the frame, a needle carried by one bell crank, and a rocker shaft carried by the other bell crank, a needle fixed to the rocker shaft, driving mechanism provided to oscillate the bell cranks, and a link associated with the rocker shaft and one of the aforesaid bell cranks to oscillate the rocker shaft.

1,476,659. GUIDE AND ADJUSTER FOR LOOPER NEEDLES. ADELBERT L. TRAVER, Philmont, N. Y. Filed Feb. 17, 1920, Serial No. 359,388. Renewed June 8, 1923. 7 Claims. (Cl. 112—25.)



1. A looper adjuster for looper machines, where the looper is provided with an oscillating arm, comprising a clamp bracket pivoted on the oscillating arm, a bearing tube anchored in the clamp bracket, an oscillating shaft journalled in the bearing tube, a rocker arm fixed to the oscillating shaft, a ball joint made on the rocker arm, a link confined on the ball joint for imparting motion to the rocker arm, a looper attached to the oscillating shaft, and said looper and oscillating shaft capable of adjustment by swinging the clamp bracket relatively to the oscillating arm in order to vary the path of travel of the point of the looper.

1,476,660. THRASHING DEVICE. HENRY R. TUCKER, Balboa, Canal Zone. Filed Dec. 16, 1922. Serial No. 607,416. 5 Claims. (Cl. 83—37.)

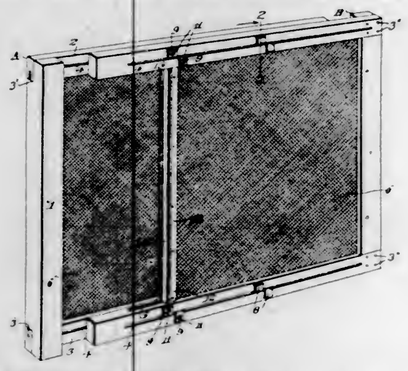


1. A thrashing device comprising a base, means to secure said base in fixed position, a disk on said base, an abrading substance on said disk, a second disk above the said abrading material and spaced therefrom, a rubber facing on the under side of the second disk, said facing presenting an opening at the center, a hopper on said disk discharging to the space between the said abrading substance and the second disk at the said opening, and means to turn said second disk.

1,476,661. ADJUSTABLE WINDOW SCREEN. FRANK S. VERDONE, Joliet, Ill. Filed Aug. 23, 1922. Serial No. 583,879. 1 Claim. (Cl. 156—38.)

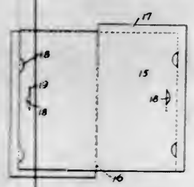
A window screen comprising a pair of U-shaped members shiftable relatively to each other and including top, bottom and end rails, the top and bottom rails of one

member sliding against the top and bottom rails of the other member, each of said top and bottom rails provided with a longitudinally extending slot, a foraminous sheet secured to each of said frames, the slots of one frame aligning with the slots of the other frame, an upper pair of clips extending through the aligning slots of the upper rails, a lower pair of clips extending through the aligning slots of the bottom rails, said clips overlapping said rails, means for securing one of the clips of said upper pair to one of said top rails, means for securing the other clip



of the upper pair to the other top rail, means for securing one of the clips of the lower pair to one of the bottom rails, means for securing the other clip of the lower pair to the other bottom rail, and a clamping strip interposed between the top and bottom rails of each frame at a point removed from the free ends thereof, each of said strips provided with a pair of pockets, one of said pockets disposed at an angle with respect to the other and having seated therein said sheet, and a resilient member mounted in the other of said pockets, said members abutting against said sheets.

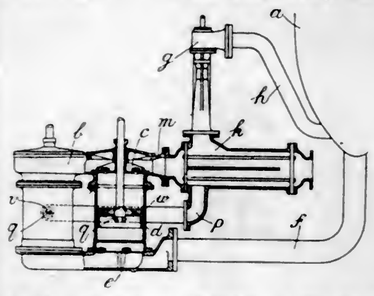
1,476,662. INDEX FILE. RUDOLF JOSEPH WEINACHT, New York, N. Y. Filed June 8, 1921. Serial No. 475,920. 3 Claims. (Cl. 129—16.5.)



2. An index file including a plurality of leaves each composed of a plurality of cards of different outline, a plurality of tabs forming parts of one of said cards of each leaf, one of said tabs on a card being adapted to slidably engage one edge of another card of the next adjacent leaf, said latter card being formed with a slot, one of said tabs being adapted to extend into said slot.

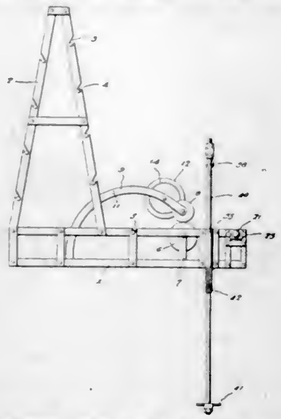
1,476,663. WITHDRAWAL OF AIR AND WATER OF CONDENSATION FROM STEAM CONDENSERS. WILLIAM DOUGLAS WEIR, Cathcart, Glasgow, Scotland, assignor to G. & J. Weir, Limited, Glasgow, Scotland. Filed Dec. 1, 1922. Serial No. 604,327. 4 Claims. (Cl. 103—6.)

1. The combination with a steam condenser of a steam-jet air-ejector, a reciprocating air pump of the bucket type with admission valves, bucket valves, and discharge valves, a port in said pump situated above the said admission valves and so situated that it is below the said bucket when the latter is at the top of its stroke and is covered by the said bucket during a portion of its stroke, means whereby the air from the said condenser is withdrawn therefrom by the said ejector, means whereby this air is discharged into the said pump through the said



port, and a pipe connection whereby the said air pump withdraws the water of condensation direct from the condenser and delivers it into the said pump through the said admission valves.

1,476,664. MEASURING AND CUTTING MACHINE. JOSEPH F. WIESNER, Ellis, Kans. Filed Aug. 13, 1921. Serial No. 492,169. 3 Claims. (Cl. 33—130.)



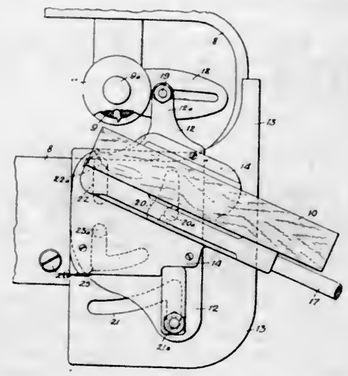
1. An apparatus of the class described comprising a supporting frame, having bearings therein for supporting a roll of cloth, a frame pivotally mounted to the supporting frame, a roll in the pivotally mounted frame, a roll in the main frame upon which the first mentioned roll is adapted to rest when the pivoted frame is in lowered position, measuring means actuated by the first mentioned roll, a winding roll and severing means located between the winding roll and the rolls of the measuring device.

1,476,665. ATTACHMENT FOR MOTOR VEHICLES. MATTHEW PHILLIP WILL, Richmond, Va. Filed Aug. 4, 1922. Serial No. 579,688. 2 Claims. (Cl. 224—29.)



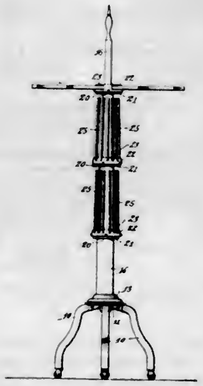
1. An attachment for motor vehicles, comprising a receptacle adapted to be secured to the inner side of a windshield, said receptacle comprising a base, rear wall, end walls, and a hinged top, the windshield being adapted to form the front of said receptacle, said end walls being provided with extensions adapted to be secured to the windshield frame to support said receptacle.

1,476,666. STILE-HORNING MACHINE. JOHN THOMAS WILLIAMS, Los Angeles, Calif. Filed Jan. 3, 1923. Serial No. 610,509. 10 Claims. (Cl. 144—145.)



1. In a wood-working apparatus, the combination of cutting means including a rotary cutter, a fixed support, a work-holding carriage movable on said support, and means for holding the carriage to a rotational movement while precluding the carriage from having a translational movement, and means for thereupon holding the carriage to a translational movement while precluding the carriage from having a rotational movement.

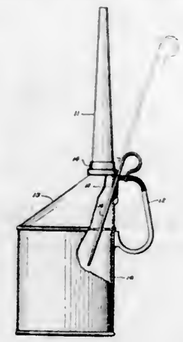
1,476,667. CLOTHES DRIER. HAROLD G. WOOD, Dexter, Me. Filed Nov. 16, 1922. Serial No. 601,311. 3 Claims. (Cl. 68—34.)



1. In a clothes drier, a supporting standard, a hollow shell mounted on said standard and having a plurality of radially disposed sockets and internally directed ears at opposite sides of the sockets, a yieldable holding device within the shell and opposite each socket, and a clothes supporting bar extending through each socket and swingingly coupled to said ears and each engaged by one of said holding devices when in vertical position.

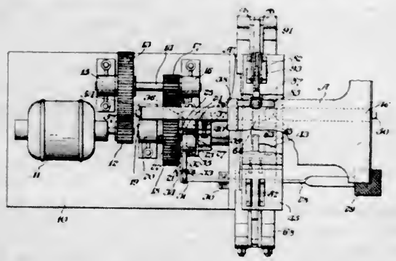
1,476,668. OIL CAN. JAMES B. AGNEW, Sr., Mount Union, Pa. Filed Apr. 4, 1922. Serial No. 549,493. 2 Claims. (Cl. 221—57.)

1. An oil can having a tubular body provided with an inclined upper end the inclination thereof being directed to one side of the can, a spout removably attached to the oil can and a handle on the body portion at that



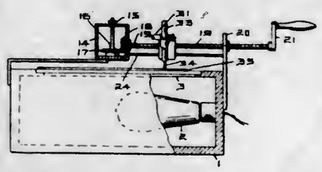
side thereof remote from the aforesaid inclined portion, and a removable picker fitting an air-vent in the body of the oil can.

1,476,669. PUNCHING MACHINE. WALTER H. D'ARDENNE, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 12, 1920. Serial No. 403,019. 28 Claims. (Cl. 164—91.)



1. A machine of the class described comprising the combination of a work-support having a plane surface on which the work rests, a die mounted in the side-wall of said work-support, and a punch cooperating with said die and mounted to reciprocate in a direction perpendicular to said side wall.

1,476,670. MOTION-PICTURE-RECORD TINTING APPARATUS. FRANCIS J. BULASK, Toledo, Ohio, assignor to The Pictures Development Co., Toledo, Ohio, a Corporation of Ohio. Filed Oct. 15, 1920. Serial No. 417,106. 7 Claims. (Cl. 41—1.)



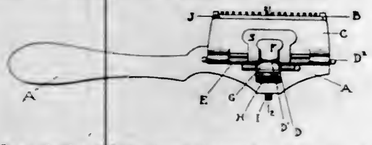
1. A turntable, a lead screw parallel thereto and connected to rotate in definite relation as to the table, a nut on the screw, guide means for holding the nut in its travel along the screw, and a color applying device carried by the traveling nut for delivering color to a record on the table during definite progress of the device as to the table.

1,476,671. EDUCATIONAL APPARATUS. JAMES SEARLE CRATE, Houston, Tex. Filed Dec. 28, 1921. Serial No. 525,372. 7 Claims. (Cl. 35—6.)



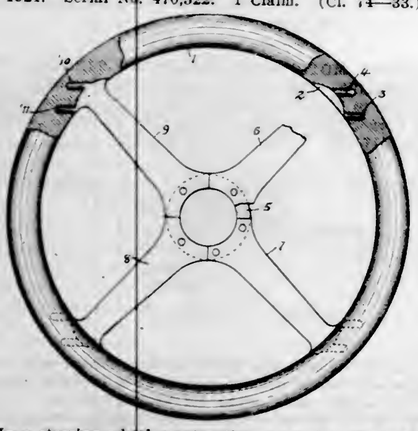
1. In an educational apparatus, a map, a numbered series of references referring to loci appearing on said map, and a set of markers numbered in accordance with the numbering of the references adapted to indicate on the map the loci mentioned in the references.

1,476,672. ADJUSTABLE SAFETY HAIRCUTTER. MAURICE M. SELLERS, Lynn, Mass. Filed May 11, 1921. Serial No. 468,662. 8 Claims. (Cl. 30—12.)



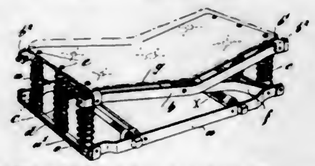
1. In a device of the kind described, a handle formed with a pocket at one end, a guard member and means for positively adjusting it in and out of said pocket, and a blade-carrying unit pivotally mounted on said handle opposite said pocket.

1,476,673. STEERING-WHEEL CONSTRUCTION. WILLIAM C. RASTETTER, Fort Wayne, Ind. Filed May 18, 1921. Serial No. 470,522. 1 Claim. (Cl. 74—33.)



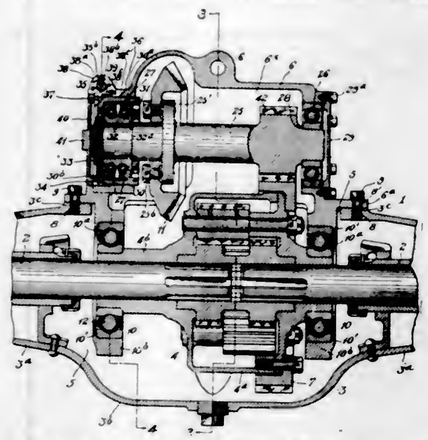
In a steering wheel construction, a wooden rim having a series of kerfs in its inner periphery; a spider, the arms of which are formed in separate pairs, the outer ends of the arms of each pair and the corresponding kerfs being so formed as to admit simultaneous insertion of the ends into the kerfs; and a hub having rigid connection with each pair of arms.

1,476,674. SPRING MOUNTING OF VEHICLE SEATS. FREDERICK HAGGER HEADLEY, Birmingham, England, assignor to Tan Sad Limited, Birmingham, England, a Corporation. Filed Sept. 8, 1919. Serial No. 322,507. 2 Claims. (Cl. 208—24.)



1. A spring seat for vehicles and the like, comprising a lower frame, an upper frame, vertically arranged coiled springs between the ends of said frames, and a connecting and bracing member also arranged between said frames, said member having one end pivotally connected to the lower frame at a point near one end of the latter and having the opposite end pivotally connected to the upper frame at a point near but beyond the center thereof with relation to the pivot point of said connecting and bracing member in the lower frame, the axes of the pivotal connections being relatively fixed.

1,476,675. POWER-TRANSMITTING MECHANISM. LOUIS P. MOOERS, Cincinnati, Ohio. Filed July 12, 1920. Serial No. 395,588. 9 Claims. (Cl. 74—99.)



1. In apparatus of the character described, the combination of an axle housing having an enlarged centrally disposed gear receiving section with an opening through its upper wall, an integrally formed cover and gear carrier for said opening having pairs of aligned openings, the walls of one of which pairs of openings are integrally formed with the cover, a differential mechanism mounted at either end in the walls of one pair of said openings, a countershaft mounted at either end in the walls of the other pair of said openings, being those which are integrally formed with the cover, and disposed parallel to the axis of said differential mechanism, a closure plate for each of said last described openings, reduction gearing between said countershaft and the housing of said differential mechanism, a propeller shaft mounted in said cover at an angle to said countershaft, reduction gearing between said propeller shaft and said countershaft, and means for securing said cover to said axle housing.

Patents Nos. 1,476,676 to 1,477,527.

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Reissues	5—No.	15,728 to No.	15,732, inclusive.
Designs	103—No.	63,445 to No.	63,547, inclusive.
Patents	852—No.	1,476,676 to No.	1,477,527, inclusive.
Total	1355		

ADJUDICATED PATENTS.

(C. C. A. Pa.) The Goldschmidt patent, No. 578,868, for method of producing metals and alloys, *Held* valid and infringed. *Goldschmidt Thermit Co.* v. *Primos Chemical Co.*, 292 Fed. Rep. 362.

(D. C. N. J.) The Langmuir patent, No. 1,180,159, for incandescent lamp, preliminary injunction against infringement granted. *General Electric Co.* v. *Nitrogen Electric Co.*, 292 Fed. Rep. 384.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

828,956, 864,673, 1,154,709, J. H. McEvoy, Well strainer; 874,418, same, Straining plugs; and (inserted by answer May 12, 1922) 1,403,174, O. A. Layne, Separator for wells, suit filed Mar. 11, 1922, D. C., S. D. Calif., Doc. F 102, *J. H. McEvoy et al.* v. *Layne & Bowler Corp. et al.* Decree of dismissal, pursuant to stipulation, without prejudice.

841,387, L. De Forest, Devices for amplifying feeble electrical currents; 879,532, same, Space telegraphy, bill of complaint dismissed with costs to Independent Wireless Telegraph Co., D. C., S. D. N. Y., *Radio Corp. of America et al.* v. *Independent Wireless Telegraph Co. et al.*

864,673. (See 828,956.)

874,418. (See 828,956.)

879,532. (See 841,387.)

933,486, C. L. Nelson, Calculating machine; 1,455,555, G. D. Sundstrand, Adding machine, suit filed Sept. 14, 1923, D. C., N. D. Ill., Doc. 3740, *Rockford Milling Machine Co.* v. *Chicago Gravel Co.*

942,699, L. H. Baekeland; 942,852, Indurated product and method of preparing same, suit filed Sept. 24, 1923, D. C., D. Del., Doc. 530, *Bakelite Corp.* v. *The Brunswick-Balke-Collender Co.*

942,852. (See 942,699.)

956,009, Re. 15,401, L. S. van Westrum, Method of making and maintaining roads or like surfaces, suit filed Sept. 12, 1923, D. C., D. Del., Doc. E 526, *Bituminous Products Co. et al.* v. *Headley Good Roads Co.*

1,108,156, H. D. Ells, Chocks for vehicle wheels; Re. 14,956, same, Automobile theft signal; 1,343,709, E. E. Chapman, Vehicle shackle; and (inserted by answer June 14, 1922) 1,292,822, W. R. Litzenberg, Auto wheel chock, suit filed May 13, 1922, D. C., S. D. Calif., Doc. F 117, *Security Mfg. Co.* v. *Supreme Mfg. Co.* Interlocutory decree finding Re. 14,956 valid and infringed as to claim 2 and 1,343,709 valid and infringed as to claims 6 and 7, issuing injunction and for costs. (Appealed to circuit court of appeals.)

1,154,709. (See 828,956.)

1,184,254, P. McBean, Die for the manufacture of tiles; 1,289,492, same, Roofing tile, suit filed Mar. 19, 1920, D. C., S. D. Calif., Doc. E 55, *Gladding, McBean & Co.* v. *Los Angeles Pressed Brick Co.* Patent 1,289,492 valid and infringed except as modified by disclaimer on claims 5 and 6 and 1,184,254 valid and infringed as to all claims.

Re. 14,695, W. J. Boyle, sr., Containers (inserted by supplemental bill, July 9, 1923), suit filed Aug. 15, 1919, D. C., S. D. Calif., Doc. E 37, *W. J. Boyle, sr.*, v. *Woolwine Metal Products Co.*

1,289,492. (See 1,184,254.)

1,292,822. (See 1,108,156.)

1,343,709. (See 1,108,156.)

1,403,174. (See 828,956.)

1,455,555. (See 933,486.)

Re. 14,956. (See 1,108,156.)

Re. 15,401. (See 956,009.)

Condition of Applications Under Examination at Close of Business November 30, 1923.

Room No.	(Total number of applications awaiting action, exclusing Trade-Mark Division, 87,944; Trade-Mark Division, 2,397. Oldest new case, Feb. 2, 1923; oldest amended, Feb. 9, 1923. The dates given are 1923.) Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plant Husbandry; Plows; Planting; Scattering Unloaders.	Mar. 6	Feb. 26	1,272
128	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Apr. 2	Apr. 10	1,201
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	June 29	July 7	1,080
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Mar. 23	May 7	1,442
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Feb. 23	Feb. 23	1,479
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Feb. 20	Apr. 12	1,823
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	Apr. 12	Apr. 11	2,570
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	June 7	June 12	1,704
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	Apr. 14	Oct. 5	767
235	10. BARTHOLOMEW, J. A., Motor Vehicles; Land Vehicles—Animal Draft Appliances, Bodies and Tops, Dumping, Wheel Substitutes.	Mar. 19	June 18	1,417
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skin, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	July 2	June 13	822
222	12. PIERCE, P. P., Machine Elements	Apr. 13	Mar. 17	1,270
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	Apr. 16	June 13	1,167
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Mar. 5	Oct. 12	1,025
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Feb. 24	Mar. 9	1,997
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Mar. 9	Mar. 9	2 605
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Association or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Mar. 15	July 2	1,396
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	Mar. 2	Mar. 2	1,992
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	May 8	Aug. 25	1,190
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Dentistry; Locks and Latches; Safes; Undertaking.	May 1	May 5	1,410
212	21. THURBER, W. L., Winding and Reeling; Textiles—Braiding, Netting, or Lace Making, Cloth Finishing, Fiber Preparation, Knitting, Spinning, Twisting or Twining, Weaving.	Feb. 24	Sept. 22	955
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Apr. 16	May 14	506
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	Feb. 12	Mar. 5	693
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Mar. 31	Apr. 28	1,076
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Cutlery; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Gas Separation.	July 13	July 5	941
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Mar. 13	Mar. 26	958
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Apr. 6	Apr. 2	1,350
225	28. BENSON, A. R., Internal-Combustion Engines	June 4	May 10	1,274
147	29. MORRIS, B. N., Abrading; Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Feb. 27	May 14	1,248
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Apr. 11	Oct. 1	1,205
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar, Starch, and Carbohydrates; Concentrating Evaporators.	Apr. 2	Apr. 1	1,497
120	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Feb. 16	Mar. 1	1,343
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	Apr. 16	Mar. 22	1,525
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	Apr. 14	May 9	963
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	June 24	Aug. 14	843
265	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	May 21	May 14	1,922
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Mar. 31	Mar. 22	1,793
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Feb. 19	Mar. 12	1,738
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Feb. 2	Feb. 9	1,217
271	40. OBERLIN, J. J., Baggage; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Mar. 9	July 12	1,976
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Apr. 2	May 16	998
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Mar. 23	Apr. 5	1,720
382	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Electricity, Medical and Surgical; Fire Extinguishers; Medicines; Sewerage; Surgery; Liquid Separation or Purification.	Apr. 13	Feb. 27	1,719
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	Mar. 22	June 28	1,092
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	June 5	Apr. 10	1,490
334	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	May 9	June 4	1,270
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time-Controlling Mechanism.	Mar. 28	July 2	1,132
116	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Feb. 23	Feb. 26	2,368
383	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	Apr. 13	May 12	563
102	DESIGNS: C. O. MARKHAM (Acting)	Aug. 27	Sept. 24	956
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. {Trade-Marks	Oct. 1	Nov. 9	2,235
	{Labels and Prints	Nov. 19	Nov. 23	62

DECISIONS IN PATENT AND TRADE-MARK CASES.

Commissioner's Decisions.

EX PARTE WADSWORTH.

Decided January 23, 1922.

DRAWINGS—INCOMPLETE ILLUSTRATION OF PREFERRED FORM.

Where several modifications, each constituting a combination, are illustrated in separate figures, and the preferred form of the invention is only partially shown in other figures, and it is not clear from an inspection of the drawing what elements of such combination are necessary to complete such form, *Held* that the drawing does not meet the requirement that the purpose and mode of operation of a simple invention should be readily understood by one skilled in the art upon a mere inspection thereof.

ON PETITION.

ROTARY BORING DRILLS.

Mr. Jesse R. Stone for the applicant.

ROBERTSON, *Commissioner:*

This is a petition from an action of the Primary Examiner requiring applicant to either add figures to the drawing for the purpose of better illustrating the proposed form of the invention described and claimed or substitute a new sheet of drawing illustrating only such form.

The preferred form of the invention is only partially illustrated in Figures 4 and 8, it being necessary to refer to other figures to ascertain, from an inspection of the drawing, what elements comprise the combination covered by the claims drawn to the species elected, and this is attended with some difficulties, since the subcombination constituting the preferred form as now illustrated may be used in connection with parts of devices shown by either of two figures depicting different modifications.

A drawing of a simple invention should be such that its purpose and mode of operation may be readily understood by one skilled in the art upon a mere inspection thereof. (*Ex parte Hartley*, 97 O. G., 2746; 1901, C. D., 153.) This requirement is believed not to be met where several modifications, each constituting a combination, are illustrated in separate figures, as in this case, and the preferred form of the invention is only partially shown in other figures, and it is not clear from an inspection of the drawing what elements of such combination are necessary to complete such form. When possible, the preferred form of a combination claimed should be illustrated in a single figure in such manner as to show the interrelation of its several parts.

Inasmuch as claims have been allowed which read on all modifications, the figures illustrating the same may remain in this case.

It is suggested that the species of invention elected and claimed may be shown by amending Fig. 8 to illustrate the hidden drill stem and spur gears either in dotted lines or in sectional elevation, or a new figure, on a small scale, similar to Fig. 1, may be added under Fig. 1, showing the several parts of such species.

The action of the Examiner is affirmed to the extent indicated.

EX PARTE SCHNUCK.

Decided February 28, 1922.

ABANDONMENT OF APPLICATION—AVOIDABLE DELAY.

Where applicant's attorney wrote that a certain patent "would therefore appear to be a pertinent reference," but suggested numerous differences, and ordinary precautions, such as making inquiries regarding the suggestions, were not used, but a letter was written to the attorney advising him that the assignee "had concluded to drop this matter," and the assignee took no further steps for five years, or until after a patent issued to another, and in the meantime the invention was commercially manufactured, *Held* that the Commissioner could not properly hold that delay was unavoidable.

ON PETITION.

RUBBER CALENDER.

Mr. Henry E. Rockwell for the applicant.

ROBERTSON, *Commissioner:*

Renewed consideration has been given to applicant's request for reconsideration of the petition for revival. All the papers in the case, including the verified showing, the written argument, and the oral argument made by the applicant's attorney, have been *studied* in an effort to find some way of considering this application unavoidably abandoned.

In the argument the point is made that applicant, acting in good faith, apparently misunderstood the letter of his attorney. This letter, however, clearly shows that while the statement was made that the Kennedy patent "would therefore appear to be a pertinent reference," numerous differences were suggested by the attorney. Instead of using the ordinary precaution a business man would be presumed to take, such, for example, as making further inquiries regarding the suggestions made by the attorney, a letter was written to the attorney advising him that the assignee had "concluded to drop this matter." This was on July 20, 1915, and applicant's assignee took no further steps in this case for over five years, or until after September 14, 1920, the date the patent to Thropp was issued. In the meantime the invention was commercially manufactured. The public has some rights in the matter. If the case should now be revived, it would have to be subject to interference proceedings with the patent to Thropp, and even if these interference proceedings were favorable to the present applicant the patent would issue in the indefi-

nite future. It is not seen how the Commissioner can properly hold that delay was unavoidable where applicant's assignee advised his attorney that it had been "concluded to drop this matter" and, even by mistake, permitted over five years to roll by without taking any steps in the case, and only then because a patent had been issued to another.

In view of the foregoing the former holding that the applicant has failed to establish that the delay was unavoidable must be adhered to.

ANDREWS *v.* DOWNS.

Decided February 14, 1922.

INTERFERENCE—MOTION OR PETITION TO ADD A LATER APPLICATION OF ONE OF THE PARTIES—MOTION BASED ON SAME STATE OF FACTS PREVIOUSLY DECIDED BY LAW EXAMINER.

After a motion by A. that a later application of his be added to the interference has been considered and decided by the Law Examiner, another hearing upon substantially the same state of facts, based on a new petition or motion, was not granted where there was no question of inadequate disclosure in his earlier application. The later application could be used as evidence without including it in an interference. The suggestion of the possibility of successive interferences *Held* not a sufficient reason for setting the motion for hearing in view of the status of the interference.

ON PETITION.

TEMPERATURE CONTROL IN CHEMICAL REACTIONS.

Mr. B. G. Foster for Andrews.

Mr. Charles W. Mortimer and *Messrs. Pennie, Davis, Marvin & Edmons* for Downs.

KINNAN, *Acting Commissioner:*

The party Andrews petitions that his later application B, may be substituted for his earlier application A in the above-entitled interference.

The record shows that consideration of a petition or motion to add said application B has been had and decision rendered by the Law Examiner. The petition, which, it is alleged, is based upon said decision, is practically a new motion. It does not seek to substitute the later application in order to shift the burden of proof or to furnish other evidence of the performance of the process of the issue, since Andrews may use the later application for evidence without including it in an interference, and there is no question of inadequate disclosure in his application A, since the Law Examiner has held that the method of the issue is more particularly and certainly disclosed in application A than in the later application B. There is no contention by the party Andrews that his application A does not fully disclose the process, and the suggestion of the possibility of successive interferences is not a sufficient reason for setting the motion for hearing in view of the present status of the interference.

The party Andrews had full knowledge of the character and the extent of the disclosure in his application B long prior to the hearing on his motion to add, and could have secured consideration of all material facts at said hearing. To grant another hearing upon substantially the same set of facts based on a new petition or motion is contrary to established practice relating to piecemeal prosecution of motions (*Richards v. Klotzker and Goesel*, C. D,. 1902, 62; 98 O. G., 1709) and entails an unnecessary burden upon the opposing party.

The petition or motion to substitute the application B of Andrews for his application A will not be set for hearing.

EX PARTE STODDARD.

Decided March 8, 1922.

PATENTABILITY—CHANGE IN SEQUENCE OF OPERATIONS OF MACHINE, WITH CONSEQUENT ADVANTAGE.

Where in prior practice the meandering dynamic or expression lines were usually marked upon note sheets after the sheets were perforated, with the result that a line might cross a perforation and the marker might injure the paper, *Held* that a machine for perforating and marking note sheets having means to control the instrumentalities, so that the sheets are first marked and then perforated, is patentable.

[NOTE.—This application has resulted in Patent No. 1,432,424, October 17, 1922.]

APPEAL from Examiners in Chief.

MACHINE FOR USE IN THE MANUFACTURE OF PERFORATED NOTE SHEETS.

Messrs. Emery, Booth, Janney & Varney for the applicant.

KINNAN, *Acting Commissioner:*

The applicant has appealed from the decision of the Examiners in Chief affirming that of the Primary Examiner denying patentability to claims 9, 14, 29, 31, and 32, of which the following will serve as examples:

9. A machine for making perforated note sheets comprising, in combination, note sheet perforating mechanism; marking mechanism located to mark a note sheet before it is perforated; means to control the marking mechanism to cause a marking operation; and means cooperatively connected therewith to control the perforating mechanism subsequently to cause a correlated perforating operation.

14. A machine for making perforated note sheets comprising, in combination, perforating means; perforator selecting means; means for presenting a note sheet to the perforating mechanism; a marking device cooperating with said sheet, and positioned for marking the sheet before it is perforated; means to feed the sheet to the marking and the perforating means; marker-operating means to cause the marking device to mark the sheet; and cooperating governing means for the marker-operating and perforator selecting means respectively, for governing relative positions of marks and perforations on the sheet.

The references are: Smith, 233,882, November 2, 1880, in view of *ex parte Pacholder* (51 O. G., 295), and Zollinger, 1,004,839, October 3, 1911.

The Examiner denied patentability to some 35 claims, but the Examiners in Chief held 30 of these allowable, but deemed the other 5 to be unpatentable.

As set forth in the appealed claims, the invention relates to mechanism for performing, under the control of the common pattern sheet, the operation of applying what is known in the art as the meandering dynamic line to indicate to the operator when to increase the loudness of the instrument controlled by the perforated sheet and of perforating the sheets in groups simultaneously, in numbers of 15 or 20. As set forth by appellant, this dynamic line has been in prior practice usually applied after the sheets have been perforated, with the result that the line may cross a perforation and the pen or other line-forming instrument may injure the paper at such point. It is consequently of advantage to apply the dynamic line to the paper before the latter is perforated, and since a considerable number of the sheets are perforated simultaneously the dynamic line must be placed upon each sheet separately before it is fed along to where the groups to be punched are brought to proper position. The means for controlling, through the pattern, the perforation of the sheets is not, so far as the present case is concerned, alleged to be novel. The dynamic lines are applied to a suitable number of sheets simultaneously by means of a group of pens supported upon a common pen bar, and, through suitable pneumatics under the control of the pattern, the variations in the position of the dynamic line, as well as the extent of contact of the pens with the paper, are controlled.

While the grouping of mechanism of this character into a single machine seems to be entirely novel, yet the appealed claims were regarded by the Examiners in Chief as met in terms by the arrangement disclosed in the patent to Smith. This patent discloses a note-sheet-perforating mechanism with a pattern-punch selector controller and also includes an arrangement operating simultaneously with the note-sheet-perforating mechanism to perforate the rack holes at the edges of a pattern sheet and to also mark such sheet in a manner to enable a composer to indicate, for subsequent perforation by usual hand tools, the position of the holes in any given composition of music. This marked sheet after being completed by hand is used as a pattern sheet in this machine of the reference to control the perforations of a note sheet, such as the sheet D, while another pattern sheet is being marked.

If sheet L^2 in the Smith machine is regarded as a note sheet in the sense that it is like one when it is completed or in the sense that a pattern sheet may be called a note sheet, then claims 9, 29, 31, and 32 may be said to be met in terms. Obviously such claims are directed to the marking and perforating, by the combined mechanism which appellant has devised, one and the same music sheet. If this were brought out in these claims, they would appear to be allowable over the prior art. At the hearing the suggestion was made that by a slight change such claims could be made allowable, and consequently the following is suggested: At the end of claim 9, and before the period, the words "on said sheet," if added, would make the claim allowable. As to claim 29, if after "marking mechanism" the words "for perforating and marking each of the said sheets" are added this claim will also be allowable. In claim 31 if the word "same" be inserted after the words "in succession upon the" then this claim will be allowable. Finally, in claim 32 if after the words "succession upon" the words "the same" are inserted and after the words "perforations on the" the word "said" is inserted and the two following words be made to read "sheet material" this claim will escape the prior art. Claim 14 does not, in my judgment, read upon the Smith construction. I am unable to find the marking device of Smith cooperates with the sheet that is perforated by the machine or that Smith has the sheet positioned for marking before it is perforated by the machine. This claim appears allowable as drawn.

The decision of the Examiners in Chief is affirmed, with the suggestions as to amendments as to claims 9, 29, 31, and 32, and reversed as to claim 14.

LEE AND HOGAN, JR., *v.* VREELAND.

Decided January 6, 1922.

1. INTERFERENCE—ADMISSION OF EVIDENCE AFTER EXPIRATION OF PERIOD FOR TAKING TESTIMONY.

The admission of additional evidence on behalf of a party to an interference after the period for taking testimony has expired and after final hearing can not be regarded as a matter of right, but must be determined in accordance with well-established rules. Ordinarily there should be a showing of good and sufficient reasons why the testimony was not introduced at the proper time, and the evidence sought to be admitted must be material to the issue.

2. LACHES—DELAY OF MORE THAN TWO YEARS IN CLAIMING MATTER DESCRIBED IN A PRINTED PUBLICATION.

The holding of the Supreme Court in *Chapman et al. v. Wintroath* (272 O. G., 913) that the delay of two years on the part of an applicant, after the issue of a patent, before making the claims of the latter for interference purposes, constitutes an estoppel by reason of laches is not such a holding as warrants the view that if an applicant delays this length of time after an invention is fully described in a printed publication, before presenting claims for such invention, he is likewise estopped by reason of laches.

3. DIVISIONAL APPLICATION—EFFECTIVE DATE—APPLICATION NOT BARRED BY PUBLICATION SUBSEQUENT TO FILING DATE OF PARENT APPLICATION.

A divisional application takes its effective date from the date of filing of the parent case, and any publication subsequent thereto is not a bar to any claims in the divisional case which are supported by the earlier case, whether such matter was or was not claimed in such earlier application.

APPEAL from Examiner of Interferences.

TRANSMITTING INTELLIGENCE BY RADIANT ENERGY.

Mr. Frederick W. Winter for Lee and Hogan, jr.

Mr. F. L. Dyer for Vreeland.

KINNAN, *First Assistant Commissioner:*

This is an appeal from the decision of the Examiner of Interferences denying the motion upon the part of Lee and Hogan that they be permitted to file as an exhibit a copy of the Proceedings of the Institute of Radio Engineers for July, 1913, alleged to contain a description of the invention of the moving parties, and also that they be permitted to file a supplementary brief relating to this exhibit.

It appears this interference has been pending over six years. It is not necessary here to recite the history of the proceedings which have finally

led up to the present condition of the interference. As the controversy now stands there has been an award of priority rendered by the Examiner of Interferences in favor of Lee and Hogan, and an appeal by Vreeland to the Examiners in Chief is pending, but has not yet been heard.

The parties Lee and Hogan, appellants here on appeal on this motion, set forth that before the decision of the Examiner of Interferences awarding priority to them there was a transfer of title of their patent to the Radio Corporation of America, and the general counsel of said corporation became convinced a copy of the publication above referred to would be of advantage to appellants if introduced in evidence as an exhibit. Before the bringing of the motion, however, the period for taking testimony had terminated and the interference had, some four months before, gone to final hearing.

The Examiner of Interferences held the motion came too late; its granting would be unfair to Vreeland unless he had an opportunity to cross-question witnesses or introduce additional testimony in rebuttal, and the granting of the motion therefore would require a reopening of the proceedings before him; that there was no reason to view the publication as newly-discovered evidence, as it was referred to by witnesses testifying on behalf of Lee and Hogan when the latter were taking their proofs, and such exhibit could have been then introduced in evidence if counsel had thought such step desirable, and, finally, that it was not material to the issue.

It is submitted on the part of Lee and Hogan that the doctrine of *Chapman et al.* v. *Wintroath* (252 U. S., 126; 272 O. G., 913), holding that the delay of two years on the part of an applicant, after the issue of a patent, before making the claims of the latter for interference purposes, constitutes an estoppel by reason of laches is such a holding as warrants the view that if an applicant delays this length of time after an invention is fully described in a printed publication, before presenting claims for such invention, he is likewise estopped by reason of laches.

[1] The admission of additional evidence on behalf of a party to an interference after the period for taking testimony has expired and after final hearing can not be regarded as a matter of right, but must be determined in accordance with well-established rules. Ordinarily there should be a showing of good and sufficient reasons why the testimony was not introduced at the proper time, as, for example, that it is newly discovered and could not, with reasonable care and diligence, have been earlier discovered, or that it is made necessary by something brought out late in the taking of opponent's testimony in the nature of a surprise, the full effect of which could not earlier have been perceived, or for some other reason showing that substantial justice requires the admission of the additional evidence. It is of course settled law that the evidence sought to be admitted must be material to the issue.

None of these conditions appears present in the case at bar. The evidence sought to be added was fully known to Lee and Hogan at the time testimony on their behalf was taken. Their witnesses referred to it. Its bearing upon the issue could have been determined at such time. The present desire to include it is based merely upon a change of mind. The granting of the motion would clearly necessitate a reopening of the case, since Vreeland would, no doubt, wish, and should certainly be given an opportunity, to attack the proof of the publication, its date, and its pertinency to the issue involved and to present further testimony if he so desired.

[2, 3] It is not seen that the decision of the *Chapman et al.* v. *Wintroath* case has any bearing upon the question of the materiality of the exhibit to the issue. That decision related to the attempt, after an unreasonable delay, to disturb one in possession of a patent for an invention and to prolong the monopoly in case the late comer was successful. In the case at bar Vreeland filed an application long prior to the date of the publication referred to in the motion. He later filed an application, stated to be a division of the first case, over two years subsequent to the date of the publication, and claimed in such divisional application an invention alleged to be fully disclosed in the publication. Under the settled practice of this Office a divisional application takes its effective date from the date of the filing of the parent case, and any publication subsequent thereto is not a bar to any claims in the divisional case which are supported by the disclosure of the earlier case, whether such matter was or was not claimed in such earlier application. (See *Forbes* v. *Thomson*, C. D., 1890, p. 61; 51 O. G., 297, and also the decisions upon this point referred to in appellant's brief.)

If it be finally determined that the divisional application of Vreeland is not, in fact, a division, as to the matter involved in the issue, of the parent application, the counts would then become unpatentable to Vreeland for one of the reasons set forth in section 4886 rather than for any doctrine contained in the *Chapman et al.* v. *Wintroath* decision. The fact that the holding of the court in that case, as well as in the cases of *ex parte Fritts* (227 O. G., 742) and *Rowntree* v. *Sloan* (189 O. G., 1281; 45 App. D. C., 207), created a departure from previous interpretations of the law is well recognized; but unless and until such doctrine is broadened by some court of competent jurisdiction to embrace the conditions present in the case at bar I see no reason to disturb the present practice.

The decision of the Examiner of Interferences denying the motion is affirmed.

EX PARTE BRALEY.

Decided February 10, 1922.

ANTICIPATION—PROCESS AND APPARATUS.

It is not sufficient that an apparatus could be used in such a way as to carry out a process in order to anticipate a claim for the process. Not only may the apparatus be capable of being so used, but the use in the way recited in the claims must be an obvious one if not disclosed in the reference.

[NOTE.—This application has resulted in Patent No. 1,429,401, September 19, 1922.]

APPEAL from the Examiners in Chief.

METHOD OF PRESSING SHIRTS.

Messrs. Brockett & Hyde for the applicant.

KINNAN, *First Assistant Commissioner:*

The applicant has appealed from the decision of the Examiners in Chief affirming that of the Primary Examiner denying patentability to claims 1, 3, 4, 5, and 7. Claims 1, 4, and 7 will serve as examples:

1. The method of pressing shirts, consisting in arranging and pressing the front portions of the yoke at the sides of the neck band, and holding the pressed portions stationary while arranging the back portions of the yoke for pressing.

4. The method of pressing shirts, consisting in pressing those portions of the yoke adjacent the neck band, and holding said pressed portions stationary while arranging and pressing the bosom.

7. The method of pressing stock shirts, consisting in expanding and holding stationary the shirt neck band, adjusting and straightening the yoke seams at the sides of the neck band relative thereto, holding the side portions of the bosom and yoke stationary, and pressing the yoke in a manner to form a folding line at the back of the neckband and tangent thereto.

The references relied upon are: Perkins, 283,810, Aug. 28, 1883; Benjamin, 731,269, June 16, 1903; Benjamin, 734,503, July 28, 1903; Freeman, 1,220,619, Mar. 27, 1917.

The Primary Examiner denied patentability to three claims additional to those presented here on appeal, but the Examiners in Chief reversed the Primary Examiner as to those three claims and held them patentable.

As well set forth in the claims appealed, the alleged invention relates to certain steps employed in pressing stock shirts. Manufacturers of shirts to be sold by the retailer are aware of the advantage in having the shirts pressed in an excellent and attractive manner, and to this end considerable ingenuity and effort have been expended in devising both machines and processes for accomplishing such purposes. The applicant discloses two machines which are together employed in carrying out his process, though the latter may be carried out by machines differently constructed, and even by hand.

Several references have been relied upon, but that one which is as pertinent as any is the patent to Perkins. An interpretation of the use of this board is justified, which includes the arranging and pressing of the neckband after the shirt is placed in proper position with the band encircling the neck block, and then pressing the portions around the neckband, and finally the bosom. The clamps are believed to be or obviously might be placed in position after the yoke portions on opposite sides of the neckband were ironed.

With this interpretation of the reference it is thought claims 1, 3, 4, and 5 fail to define anything patentable thereover. Claim 1 does not state the nature of the operation of "arranging" the back portions of the yoke for "pressing." Clearly the mere stretching of the back of the yoke or smoothing it somewhat by hand would be within the terms of the claim. There is no invention, broadly, in the process of ironing a garment, in holding one portion while another portion is smoothed out or stretched or strained in the usual manner. It is not believed, therefore, this claim 1 presents merit.

For the same reason claims 3, 4, and 5 are believed to be unpatentable and, in fact, directly met by the Perkins disclosure. Very clearly after the shirt is in position for ironing and the neckband and the portions, as would naturally be the case, adjacent the neckband were ironed the next step would be the arranging of the bosom for pressing. The clamps and the yoke block would, of course, hold the pressed portions stationary while the bosom was so prepared.

As to claim 7, such claim includes the further step of adjusting and straightening the yoke seams at the sides of the neckband and holding the side portions of the bosom and yoke stationary and pressing the yoke in a manner to form a folding line at the back of the neckband. This series of steps does not appear to be disclosed in any art to which my attention has been called. Clearly enough the apparatus could be used in such a way as to carry out this process, but, as well stated by the Examiners in Chief, this is not sufficient to anticipate the claim for the process. Not only may the apparatus be capable of being so used, but the use in the way recited in the claims must be an obvious one if not disclosed in the references. It is thought this claim should be allowed.

The decision of the Examiners in Chief is affirmed as to claims 1, 3, 4, and 5 and reversed as to claim 7.

EX PARTE JACOBUS.

Decided February 25, 1922.

1. PROCESS AND APPARATUS—DOUBLE PATENTING—FUNCTION OF APPARATUS.

Where the applicant has already obtained a patent based upon substantially the identical structure of that embraced in the present application and the means, or mechanism, or apparatus, recited generically in broad terms in the claim of the patent must be present to carry out the steps of the method claim of his application, the method claim is either coextensive with the apparatus claim and the allowance of the former would involve a clear extension of the monopoly obtained by the grant of the patent or it recites but the function of the specific apparatus.

2. PATENTABILITY—APPLICATION OF OLD DEVICE TO ANALOGOUS SITUATION.

Where one patent discloses high-pressure and low-pressure economizer sections to provide step-by-step heating and increase of pressure and another patent, while not disclosing the high-pressure section, does disclose the preliminary heating of the water and the step of withdrawing the water and allowing the free passage of contained air or gases along with the water and allowing the contained air or gases to escape and the further step of pumping the water after being deaerated to the boiler at a high pressure, *Held* that to adopt the arrangement of the latter for pumping this deaerated water into a high-pressure economizer seems an entirely obvious thing to do, or, reversing the references, to employ the deaerating tank of the one with the arrangement of the other after the prelimi-

nary heating at low pressure and before the water is pumped to the high-pressure economizer would seem to be a plain teaching of the prior art.

APPEAL from Examiners in Chief.

METHOD OF HEATING AND TREATING BOILER FEED WATER.

Messrs. Gifford & Bull for the applicant.

KINNAN, *First Assistant Commissioner:*

The applicant has appealed from the decision of the Examiners in Chief affirming that of the Primary Examiner denying patentability to claims 1 to 8, inclusive, of which the following will serve as illustrations:

1. The method of heating and treating boiler feed water consisting in heating the water at a relatively lower pressure, withdrawing the water and allowing free passage of any contained air or gases along with the water, allowing the contained air or gases to escape from the water and then forcing the water into an economizer section at a higher pressure and thence to the boiler.

3. The method of heating and treating boiler feed water consisting in heating the water forwardly through an economizer section or sections at a relatively lower pressure, withdrawing the water from said section or sections, and allowing free passage of any contained air or gases along with the water, allowing the contained air or gases to escape from the water, then forcing the water through an economizer section at a higher pressure and thence to the boiler, passing the waste gases in succession over the higher pressure section and then over the lower pressure section of the economizer and condensing at least a portion of the vapors from the waste gases upon the low pressure section of the economizer.

The references relied upon are: Fowler, 423,423, Mar. 18, 1890; Thompson, 601,485, Mar. 19, 1898; Hammond, 1,051,996, Feb. 4, 1913; Killman, 1,152,421, Sept. 7, 1915; Jacobus, 1,219,320, Mar. 13, 1917; Siller et al., British, 9,277 of 1911.

As set forth in the counts, the invention relates to a method of heating and treating boiler feed water so as to get rid of the air and other gases, which is accomplished in the first stage, and to finally pass the water under a high pressure to the boiler.

The applicant has already obtained a patent, based upon substantially the identical disclosure of that embraced in the present application, said patent being limited to apparatus claims. Method claims were prosecuted in this prior application, now eventuated into a patent, but were canceled, after rejection upon the ground that they covered but the function of the apparatus and also upon prior art, before the patent was issued. The present application was filed a little more than a year after the patent was granted. Under these circumstances it is settled law the present application can not be considered a divisional or continuing one with respect to that application upon which the patent issued. (*In re Spitteler and Krische*, 134 O. G., 1301; 31 App. D. C., 271.) However, as there does not appear to be any statutory bar to the grant of the present claims in the present application by reason of the issue of the prior patent the only effect of such patent is to raise the question of double patenting by the grant of the appealed claims.

The Examiners in Chief and the Primary Examiner held that the method claims constituted but a recital, in other terms, of the same invention embodied in the apparatus claims of the patent. These tribunals also held that the appealed claims were not patentable over the prior art.

[1] Considering the first ground of rejection, that the claims recite the same invention already covered by the claims of the patent, it would seem that this holding is sound. Comparing appealed claim 1 with claim 1 of the patent, the fact will be noted that the elements generically recited in the patented claim are necessarily present in the operation or set of steps recited in the appealed claim. The latter states that the water is heated at a relatively lower pressure, that it is withdrawn, allowing the free passage of any contained air or gases along with the water, that the second step comprises allowing the contained air or gases to escape, and that the third step consists in forcing the water into an economizer section at a higher pressure and thence to the boiler. In order for these steps to be carried out there must be present an economizer having high and low pressure sections, because the method claim recites forcing the water into an economizer section, and there must be some means for maintaining the water in the sections under different pressures in order for the different steps recited in the method claim to be carried out. If the apparatus recited in the patented claim must be "arranged to allow air or gases to escape from the water," then the arrangement must be such that there is a "free passage of any contained air or gases along with the water," otherwise the apparatus would not be arranged to permit the gases to escape from the water. It seems, therefore, that the means, or mechanism, or apparatus, recited generically in broad terms in claim 1 of the patent must be present to carry out the steps of the method claim 1 and that therefore the claim is either coextensive with the apparatus claim and the allowance of the former would involve a clear extension of the monopoly obtained by the grant of the patent or that the method claim recites but the function of the specific apparatus.

The very instructive case of the *Consolidated Window Glass Company* v. *Window Glass Machine Company et al.* (261 Fed. Rep., 362), to which appellant has invited attention, has not been overlooked. The close analogy of the conditions present in that case to those in the case at bar is fully noted. It would seem, however, that the claim for the specific apparatus, the "air supply pipe having an open outlet for air arranged to equalize pressure," was different in scope from that of the method claim. The latter recites the step of "supplying air to the interior of the article during the drawing operation" and also recites the additional step of "continually regulating the air pressure within the article to prevent variations." Clearly these two steps could be carried out by apparatus which would not fall within the terms of the apparatus claims. Plainly enough these steps are not coextensive and do not necessarily involve the mere function of "an air supply pipe having an open outlet."

Without specifically comparing the additional claims here presented on appeal it is believed they fall under the same condemnation that claim 1 does and that their counterparts are found in the apparatus claims. If the steps set forth in the last five lines of appealed claim 3 are carried out it would seem that the arrangement of the economizer sections set forth in the preceding part of the claim would have to be arranged in the "outlet flue" of the steam boiler, as set forth in the claims of the patent.

[2] As to the prior art, it is noted that the Thompson patent discloses the low-pressure and high-pressure sections which are necessary to provide the step-by-step heating and increase of pressure specified in the appealed claims. Fowler, while not disclosing the high-pressure economizer section, yet clearly enough discloses the preliminary heating of the water at low pressure and the step of "withdrawing the water and allowing free passage of any contained air or gases along with the water," and "allowing the contained air or gases to escape from the water," as recited in the appealed claims. Obviously the water after being deaerated is pumped to the boiler at a higher pressure. To adopt the arrangement of Thompson of pumping this deaerated water into a high-pressure economizer seems an entirely obvious thing to do. Reversing these two references, it would seem a plain teaching of the prior art that it would be a good thing to employ Fowler's deaerating tank with Thompson's arrangement after the preliminary heating at low pressure and before the water was pumped to the high-pressure economizer. This matter of the employment of the cast-iron pipes in the low-temperature economizer and the wrought-iron pipes in the high-temperature section of the economizer is all set forth in the British patent. At best it would seem applicant had done no more than pick out these good features already found in the prior art and unite them in an entirely obvious way in one system. The parts picked out from the prior art function just as they did before, and there seems to be no more advantage resulting than one skilled in the art and examining these various patents would know beforehand he could obtain.

The decision of the Examiners in Chief is affirmed.

EX PARTE ROSS.

Decided March 4, 1922.

PATENTABILITY—TRANSFER OF OLD DEVICES TO ANALOGOUS SITUATIONS.

Where an appealed claim covers a particular steering gear and means for connecting one of its elements with the steering mechanism of a vehicle, and the general combination, although applied to steering a ship, is disclosed in one patent, and where if the particular type of pump disclosed in another patent and the type of cylinder of a third patent, with its piston and connections to the steering mechanism, were bodily substituted for the types shown in the first patent the result would be exactly what is called for by the claims, *Held* that in view of the simplicity of the structure and the similarity between the steering wheel, steering shaft, and steering rudder of the vessel, as disclosed in the first patent, and the steering wheel, shaft, and front-wheel yokes of an automobile it would appear an entirely obvious thing to apply the steering mechanism of the boat to the automobile.

[NOTE.—This application has resulted in Patent No. 1,429,101, September 12, 1922.]

APPEAL from Examiners in Chief.

STEERING GEAR.

Messrs. Alexander & Dowell for the applicant.

KINNAN, *First Assistant Commissioner:*

The applicant has appealed from the decision of the Examiners in Chief affirming that of the Primary Examiner rejecting claims 1, 2, and 5, of which claims 1 and 2 will serve as examples:

1. In a fluid controlled steering gear, a cylinder having a longitudinal slot, a piston in said cylinder closing said slot, means for connecting said piston through said slot with the steering members of a vehicle; a fluid pump, a steering shaft for manually operating said pump, and means for conducting fluid from the pump to and from the cylinder at opposite ends of the piston.

2. In a fluid controlled steering gear, a cylinder having a longitudinal slot; a piston in the cylinder closing said slot and a finger connected with said piston and projecting through the slot in the side of the cylinder; with a casing having a pumping chamber; rotary gears in said chambers; a manually operable steering shaft operatively connected with one of the gears; and pipes connecting the opposite ports of said casing with said cylinder at opposite ends of the piston.

The references are: Jackson, No. 383,887, June 5, 1888; Johnson, No. 833,931, Oct. 23, 1906; Martineau, No. 1,056,194, Mar. 18, 1913.

As stated in the counts the invention relates to a hydraulic steering mechanism. Two of the claims refer to a vehicle, while the remaining claim, 2, does not so limit the construction.

The prior art is very pertinent. However no one patent discloses the entire construction claimed. The general combination, although applied to steering a ship, is disclosed in the patent to Martineau. In considering this reference the power-controlled portion of the steering mechanism may be eliminated or disregarded. There is left, therefore, a hand steering mechanism which embraces all the elements, though somewhat differently constructed, recited in the claims. If the particular type of pump disclosed in Fig. 5 of Johnson were bodily substituted for the type shown in Martineau and if the Jackson type of cylinder with its piston and means for connecting the latter to the steering mechanism were bodily substituted for that of Martineau, the result would be exactly what is called for by the appealed claims. The question at issue, then, reduces to whether there would be invention in making these substitutions. The Examiners in Chief and the Primary Examiner held that such substitutions were obvious.

Appellant has very carefully and ably pointed out that his mechanism is applied to an automobile, rather than to a boat, and that this is a new form of steering mechanism in this particular relation. He also has urged that the references do not suggest the employment of such a steering mechanism as disclosed by them upon an automobile and that there was invention in the conception that such old forms of steering mechanism used in connection with vessels could be applied for the purpose disclosed by appellant.

In view of the simplicity of the structure and the similarity between the steering wheel, steering

shaft, and steering rudder of the vessel, as disclosed in the Martineau patent, and the steering wheel, shaft, and front-wheel yokes of an automobile it would appear an entirely obvious thing to apply the steering mechanism of the boat to the automobile. I have considered the argument in connection with this point very fully, but am unable to conclude other than that such a change involved a mere matter of choice and there was lacking any inventive conception. As to the feature of substituting, in this steering system of Martineau, the old pump of Johnson and the old slotted cylinder and projecting pin of Jackson, it would seem there was no room for doubt that such change was entirely obvious and involved merely the selection from the prior art of the particular kinds of devices which appellant preferred. The appealed claims are, in my judgment, wholly wanting in merit.

The decision of the Examiners in Chief is affirmed.

EX PARTE HOPKINS, JR.

Decided March 7, 1922.

DESIGNS—CLAIMS OF AN APPLICATION MUST BE LIMITED TO A SINGLE SPECIES.

For a generation it has been the practice to limit the claims of an application to a single species. A design, as has been repeatedly noted in adjudicated cases, is a unitary picture or impression, embodied in some suitable form, and this impression to the eye of the observer can not be varied without the production of a different design.

APPEAL from Examiners in Chief.

DESIGN FOR TREADS OF AUTOMOBILE AND OTHER TIRES.

Mr. Edwin S. Hopkins pro se.

KINNAN, *First Assistant Commissioner:*

This is an appeal from the decision of the Examiners in Chief affirming the action of the Examiner of Trade-Marks and Designs, denying patentability to a plurality of claims in the nature of genus and species.

Appellant does not dispute the holding of the Examiner that the claims appealed are related as genus and species. Neither does he dispute the holding that the present practice of the Office is to deny patentability, in the same patent, to this character of claims. His contention is that such practice violates the constitutional rights of the applicant and that it should be discontinued. Appellant notes the difficulty in obtaining proper protection where he is restricted to a claim for his specific design and argues that such restriction upon his patent renders him the easy prey of the infringer.

While the practice, as stated by appellant, was not originally so restricted as to what appellant regards as his constitutional rights, yet for a generation it has been the practice to limit the claims of an application to a single species. A design, as has been repeatedly noted in adjudicated cases, is a unitary picture or impression embodied in some suitable form, and this impression to the eye of the observer can not be varied without the production of a different design. The term "design" has been construed to indicate some fixed shape or configuration. The authorities cited by appellant in his brief are in conformity with the foregoing.

Although this interpretation of the statute does not give a patentee the protection, in actual terms, that he possibly would have were he granted generic and specific claims, yet relief appears to have been provided for him by the provisions of the act of February 4, 1887, which enables a patentee to hold as an infringer any one using "any colorable imitation" of his design. Since a patentee is only, at most, entitled to substantially the thing he has invented and its equivalent, it would seem the statute giving the right to hold one using a colorable imitation as an infringer contemplated giving such patentee the same protection he would obtain if he had a generic claim. As stated in the case of *Crane* v. *Breed Mfg. Co.* v. *Elgin Silver Plate Co.* (268 Fed. Rep., 543) by the Circuit Court of Appeals of the Seventh Circuit:

> If in the eye of an ordinary observer, giving such attention as a purchaser usually gives, two designs are substantially the same, if the resemblance is such as to deceive such an observer, inducing him to purchase one, supposing it to be the other, the first one patented is infringed by the other.

While I am satisfied the views that were expressed in the decisions of *ex parte Adams* and *ex parte Kurz*, to which appellant invites attention, are entirely correct and while I am unaware of a specific ruling upon this matter by any court, yet attention is invited to the holding of the Circuit Court of Appeals of the Second Circuit in the case of *Tompkins Co.* v. *New York Woven Wire Mattress Co.* (159 Fed. Rep., 133), in which the court indicated, though the decision was finally made to rest upon another feature, that the mere enlargement of a design with the possible addition in the number or the width of stripes constituted a different design.

It is believed the present practice should not be disturbed at this time. As stated by the court in the case of *Cheney Brothers* v. *Weinreb and Weinreb* (157 O. G., 1002, circuit court of New York):

> A construction given to a statute by the uniform practice of the Patent Office for many years is entitled to much weight,

The decision of the Examiners in Chief is affirmed.

MELCHER v. HARTSOUGH.

Decided November 7, 1922.

INTERFERENCE — EMPLOYER AND EMPLOYEE — ANCILLARY INVENTION.

Where the senior party invented and constructed a tractor having as one of its elements a forwardly-extending tubular steering-wheel arm and delivered the tractor to a manufacturing company for use in building 10 other tractors, and the 10 tractors were built under the supervision of the junior party, who connected the engine exhaust pipes to the tubular arm, and where the senior party was first to conceive the idea of making such connection, and where, also, all the elements of the issue except such connection were present in the original tractor, *Held* that the technical relation of employer and employee existed between the parties and that the improvement added under the supervision of the junior party was ancillary to the main invention.

APPEAL from the Examiners in Chief.

TRACTOR.

Mr. Fred Gerlach for Melcher.

Messrs. Williamson & Merchant for Hartsough.

KINNAN, *First Assistant Commissioner:*

This is an appeal by the junior party, Melcher, from the decision of the Examiners in Chief affirming the decision of the Examiner of Interferences awarding priority of invention of the subject matter in issue to the senior party, Hartsough.

The invention in issue relates to a gasoline tractor. The issue is set forth in a single count, which reads as follows:

> The combination, in a tractor, of a rigid frame provided with axially alined trunnions at its opposite sides, traction wheels journaled on said trunnions, a tubular arm having its rear end rigidly secured to said frame and projecting forwardly therefrom, a steering wheel connected with and supporting the forward end of said arm, an explosive engine mounted upon said frame, and exhaust pipes extending from said engine and connected with said tubular arm, whereby said arm serves as a reach for said tractor and as a muffler for its engine, substantially as described.

This count is claim 1 in Hartsough's patent and was copied for interference purposes by Melcher.

The parties to this proceeding have filed a stipulation which reads in part as follows:

> 1. Hartsough filed an application for patent for tractors on the 21st day of June, 1915, serially numbered 35,191, which application is now involved in interference No. 40,788 between said Hartsough and W. L. Gile, of Ludington, Michigan, which interference is pending upon an appeal to the court of appeals of the District of Columbia, the subject-matter of said application being set forth in a certified copy of the file wrapper and contents thereof and marked and to be offered in evidence as "Exhibit No. 1".
>
> 2. On August 24, 1915, said Hartsough and Victor S. Langlois made and entered into an agreement with A. Hirshheimer and B. F. Hamey, a copy of said instrument being marked and to be offered in evidence as "Exhibit No. 2".
>
> 3. All rights under said agreement (Exhibit No. 2) were assigned in the fall of 1915 by said Hamey and Hirshheimer unto the Happy Farmer Tractor Company, a corporation organized under the laws of the State of Minnesota.
>
> 4. Said Hartsough, during the spring of 1915, constructed a tractor generally similar to the construction shown in his aforesaid application No. 35,191, except that it was not provided with any leveling device. In said tractor, a pipe was used to form the forwardly projecting arm or reach and no connection was made for conducting the exhaust from the motor to said pipe.
>
> 5. The tractor built by Hartsough was delivered to Hamey and Hirshheimer at Minneapolis and shipped by them to La Crosse, Wisconsin, during the latter part of September, 1915, for use in connection with the manufacture of ten tractors referred to in paragraph 1 of the aforesaid agreement (Exhibit No. 2) between Hartsough and Langlois and Hamey and Hirshheimer.
>
> 6. Contestant Melcher had charge of the construction and building of said ten tractors at the shop of the Sta-Rite Engine Company at La Crosse, Wisconsin, for and on behalf of said Hamey and Hirshheimer and the Happy Farmer Tractor Company.
>
> 7. During October and November, 1915, ten tractors were built at the shop of the Sta-Rite Engine Company under the supervision of said Melcher.
>
> 8. Said ten tractors embodied—a rigid frame similar in construction to that illustrated in Hartsough's application No. 35,191 and provided with axially aligned trunnions at its opposite sides, traction-wheels journaled on said trunnions, a tubular arm having its rear end rigidly secured to the frame and projecting forwardly therefrom, a steering wheel connected with and supporting the forward end of said arm, an explosive engine mounted upon said frame, and exhaust pipes extending from said engine and connected with said tubular arm, the arm serving as a reach for the tractor and a muffler for the engine.

Hartsough employed Carlos W. Brewer in the construction of his original tractor in the spring of 1915, and this tractor was built in the garage of C. M. Haviland. Hartsough claims to have disclosed the idea of connecting the exhaust pipes to the tubular reach to both Brewer and Haviland during the construction of this tractor, and he is corroborated in this contention by their testimony. Application Serial No. 35,191, for the original tractor, was prepared by Mr. Merchant, of the patent-law firm of Williamson & Merchant. Merchant testified that Hartsough disclosed the issue to him within a very few days after he mailed application Serial No. 35,191 to the Patent Office, which occurred on June 18, 1915. It is considered that the testimony of Hartsough, Brewer, Haviland, and Merchant establishes conception of the issue by Hartsough as early as the latter part of June, 1915. This is prior to Melcher's date of conception—September 1, 1915—as alleged in his preliminary statement.

Both parties rely for reduction to practice on the building of the 10 tractors at the shop of the Sta-Rite Engine Co. under the supervision of the party Melcher. Hartsough contends that the doctrine of employer and employee applies and that the connection of the exhaust pipes to the hollow reach in these tractors inured to his benefit. He also testifies that he acquiesced in the embodiment of this connection in these tractors, although he admits that Melcher did not derive the conception of this improvement from him. Melcher denies that the relation of employer and employee existed and maintains that in any event the invention is not ancillary to the main invention, but is an independent invention which did not inure to the benefit of Hartsough. Melcher and his witnesses Melzarek, Bennet, and Hamey all testified that Hartsough opposed the installation of this improvement on the 10 tractors.

It is believed that the technical relation of employer and employee existed between Hartsough and Melcher. The facts are similar to those in the case of *Moody* v. *Colby* (198 O. G., 897), in which Moody was in the employ of the General Electric Co. as chief engineer on transformers and similar devices. The Assistant Commissioner said in this decision:

> The facts as above outlined establish in my opinion, as was held by the lower tribunals, the technical relation of employer and employee between Colby and Moody, although as a matter of fact it was the General Electric Co. with whom Colby contracted rather than Moody personally.

On appeal the Court of Appeals of the District of Columbia in *Moody* v. *Colby* (198 O. G., 899; 41 App. D. C., 248) approved this holding in the following words:

> The able opinion of the Assistant Commissioner is sufficiently convincing to enable us to adopt his statement of fact and conclusions of law as the correct disposition of this appeal.

In deciding whether the invention set forth in the issue is an independent invention and not ancillary to that embodied in Hartsough's original tractor consideration should be given to the character of the improvement. The claim is not drawn broadly to a tubular member which serves both as a tractor reach and a muffler. It includes de-

tails of construction of the tractor which were present in the original tractor. In fact, all the elements in the claim were present in the original tractor, with the exception of the connection between the exhaust pipes and tubular arm. Admitting that the conception of this connection was original with Melcher, it forms but one of the features included in the claim. It seems only natural that one building Hartsough's tractor would contemplate the provision of a muffler and would readily perceive the availability of the tubular arm for this purpose. The conception of the improvement flowed naturally from the task of making tractors in accordance with the teachings of Hartsough. The invention was not in the improvement per se, but constituted a refinement in the tractor organization invented by Hartsough which was ancillary to his invention. A close parallel is found in the case of *Lloyd* v. *Antisdel* (95 O. G., 1645), which contains the following language:

> Antisdel concedes that the feature of the headed rivet was Lloyd's suggestion. But the headed rivet is only one element of the invention; it is not the matter in issue; the controversy is over the invention as a whole, the combination stated in the claims. Lloyd claims this combination; but he has not proved his title to it by any satisfactory testimony. He does not show that he suggested or invented anything in the combination except the headed rivet, and that is conceded to him. There is no testimony whatever on his part that he ever invented anything else in the combination. From the suggestions of Antisdel and from the materials furnished by him, he may have made a newer and better model than was Antisdel's; but that does not constitute invention. To his action may well be applied the principle of the case of the *Agawam Co.* v. *Jordon* (7 Wall., 583), wherein it was said:
>
> "Where a person has discovered an improved principle in a machine, manufacture or composition of matter, and employs other persons to assist him in carrying out that principle, and they, in the course of experiments arising from that employment, make valuable discoveries ancillary to the plan and preconceived design of the employer, such suggested improvements are in general to be regarded as the property of the party who discovered the original improved principle, and may be embodied in his patent as a part of his invention."

Another case in point is the case of *Kreag* v. *Geen* (1270 O. G., 1581). In that case Kreag employed Geen to make a shoe-polishing brush. It was alleged that Geen contributed the improvement of fluted edges to the pads. Speaking for the court, Justice Shepherd said:

> The relation of employer and employee once established, the law is well settled that when one conceives the principle or plan of an invention, and employs another to perfect the details and realize his conception, though the latter may make valuable improvements therein, such improved results belong to the employer. (Numerous cases cited.) Applying this principle to the established circumstances of the case, we are forced to the conclusion that Kreag had in mind the general plan of the new brush with resilient felt pads and sheepskin polishing surface when he employed Geen to undertake the work of construction. Whether he had in mind the fluted edges of the pads, also, is immaterial. With the three brushes, before described, in his possession, and with his mind bent upon improvement upon them, we must believe that he had a general conception of the new construction; and that he must necessarily have communicated that conception to Geen, who by his skill as a mechanic was able to produce the desired construction, as well as to improve it. Notwithstanding the improvement upon the combinations of form and materials shown in the old brushes has been declared the exercise of inventive talent, we think it was undoubtedly within the conception of Kreag in a crude form, at least, and that he disclosed it to Geen. As before declared, it is not within our province, under the limitation of the jurisdiction conferred upon us in such cases as this, to say that the improvement was the result of mere mechanical skill rather than of invention. Whatever it was, we are of the opinion upon consideration of all the facts and circumstances disclosed by the evidence, that Kreag and not Geen is entitled to the benefit of it.

Also in *Moody* v. *Colby*, supra, the Assistant Commissioner said:

> Accepting Moody's denial that Colby disclosed to him any of the details of the invention as conclusive in the absence of any testimony on behalf of Colby, the decision must still be adverse to Moody, since the record shows that the main plan of the invention was disclosed to Moody by Colby.

But one point remains for consideration, and that is, does the testimony establish such opposition on the part of Hartsough to the embodiment of the improvement in the 10 tractors as to preclude him from receiving the benefit of their construction for a date of reduction to practice. As stated before, there is direct conflict of testimony as to this alleged opposition. This testimony has been carefully analyzed in the decisions of the lower tribunals and need not be discussed in detail here. I am satisfied that the testimony on behalf of Melcher is not sufficient to overcome the heavy burden placed upon him by virtue of the fact that he is not only the junior party, but also occupies the position of employee.

It is accordingly held that the senior party, Hartsough, being the first to conceive and the first to reduce to practice, properly was awarded priority of invention.

The decision of the Examiners in Chief is affirmed.

EX PARTE GRIGSBY.

Decided May 29, 1923.

1. DESIGNS—PATENTABILITY.

Where a reference shows a windshield which is very difficult to distinguish from applicant's device, but a careful and close examination reveals that the curve of the reference is arcuate, whereas applicant's curve is slightly flattened at the end, *Held* that "details of that nature could not possibly make any appreciable difference between the devices for designs."

2. SAME—SAME—COMMERCIAL SUCCESS.

Any showing of commercial success can not benefit the applicant here, because the drawing does not show the specific device alleged to be on the market and also because it may be that the commercial success is due to structural advantage and not appearance.

3. SAME—SAME.

In design cases, as well as in structural cases, every shadow of a shade of a change of line does not import invention.

APPEAL from Examiners in Chief.

DESIGN FOR WEATHER SHIELD AND GLARE VISOR.

Messrs. Zabel & Mueller and *Messrs. Milans & Milans* for the applicant.

FENNING, *Assistant Commissioner:*

This is an appeal from the action of the Examiners in Chief affirming the Primary Examiner in rejecting an application for a patent for a design for weather shield and glare visor.

[1] Applicant's visor which is to be placed over the windshield of an automobile is clearly met by Design No. 57,653, Holsberg, and No. 1,362,759, Tabor, cited by the Examiner. Holsberg shows a windshield which is very difficult to distinguish from applicant's device. A careful and close examination reveals that Holsberg's curve is arcuate, whereas applicant's curve is slightly flattened at the end.

Details of that nature could not possibly make any appreciable difference between the devices for designs. (*In re Freeman*, 1904, C. D., 619; 109 O. G., 1339; 23 App. D. C., 226.)

[2] Applicant has another application pending for a structural patent for his visor, and it seems clear that if there is any invention it must be in structural details. Indeed, applicant's main argument here goes to show the structural advantages of his windshield over those of the references. He points out that his particular form of curve was adopted not because it was beautiful, but because in some way or other it gave a better protection against glare. Even that argument, however, seems to be directed not toward the specific form shown in the drawing, but toward an appreciably different form, of which a specimen was exhibited at the hearing and which seems to have been put upon the market with some success. The device which is alleged to have gone upon the market deviates further from applicant's drawing here than does the Holsberg device. Clearly any showing of commercial success from which may be assumed invention can not benefit applicant here, because the present drawing does not show the specific device alleged to be on the market, and also because it may be that the commercial success is due to structural advantages and not appearances. The rejection of the present case is clearly justified in view of the court of appeals decisions in *in re Schraubstadter* (1905, C. D., 541; 120 O. G., 1167; 26 App. D. C., 331); *in re Tournier* (1901, C. D., 306; 94 O. G., 2166; 17 App. D. C., 481) and *in re Sherman* (1910, C. D., 382; 154 O. G., 839; 35 App. D. C., 100), as well as the following cases in the Federal courts: *Knapp* v. *Will & Baumer Co.* (273 Fed. Rep., 380; 290 O. G., 645); *North British Rubber Co., Limited* v. *Racine Rubber Tire Co.* (271 Fed Rep., 936); *Baker* v. *Hughes-Evans Co.* (270 Fed Rep., 97); *H. D. Smith & Co.* v. *Peck, Stow & Wilcox Co.* (262 Fed. Rep., 415; 277 O. G., 981); *Backstay Machine and Leather Co.* v. *Hamilton* (262 Fed Rep., 411; 278 O. G., 710); *Crystal Percolator Company, Inc.*, v. *Landers, Frary & Clark* (258 Fed Rep., 28); *Fred Messmer Mfg. Co.* v. *Albert Pick & Co.* (251 Fed. Rep., 894); *Metallic Industries, Inc.*, v. *Brauning* (279 (Fed. Rep., 856).

[3] Clearly in design cases, as well as in structural cases, every shadow of a shade of a change of line does not import invention. (*Majestic Electric Co.* v. *Westinghouse Electric Co.*, 276 Fed. Rep., 676.)

The Examiners in Chief are affirmed.

ALLEN FLOUR COMPANY *v.* BRAUN.

Decided November 6, 1923.

TRADE-MARKS—INTERFERENCE—PRIMA FACIE SHOWING OF ABANDONMENT.

Where the Allen Flour Company filed an application for registration of a trade-mark, which was refused in view of B.'s trade-mark registered in 1909, and the company then furnished (1) a certified abstract of title of the B. mark showing no assignment of record; (2) an undelivered registered letter addressed to B. at the address given in his application for registration, marked "Returned to writer," "Unclaimed;" (3) a statement from a mercantile agency indicating that B. had left his former place of business and had for several years been doing business in another line, *Held* that the company had made out a prima facie case of abandonment of B.'s mark sufficient without verification to justify the declaration of an interference between B. and the company.

APPEAL from Examiner of Trade-Marks.

ON PETITION.

TRADE-MARK FOR BREAD.

Mr. Lee W. Mida for Allen Flour Company.
Mr. Earl T. Ragan for Braun.

FENNING, *Assistant Commissioner:*

This is an appeal and a petition from the action of the Examiner of Trade-Marks refusing to dissolve the interference.

The Allen Company filed an application for registration of a trade-mark which was refused in view of a trade-mark registered in 1909 as No. 83,217 to Braun. The Allen Company then furnished (1) a certified abstract of title of the Braun mark showing no assignment of record; (2) an undelivered registered letter addressed to Braun at the address given in his application for registration, returned by the post office marked "Returned to writer," "Unclaimed;" (3) a statement in the usual form from a mercantile agency indicating that Braun had been located at an address other than that given in his trade-mark application; that several years ago he left the employ of the baking company of which he had been superintendent and was doing experimental laboratory work for a tea and spice company, and that he was formerly employed, several years ago, at the address given in his application for registration.

On that showing an interference was declared between the Allen Company's application and the Braun registration, on the ground that the Allen Company had made out a prima facie case of abandonment of the mark of Braun.

When the interference was declared the usual notice was mailed to Braun by the Office, but returned by the post-office authorities as "undeliverable."

Braun through his attorney moved to dissolve the interference on the ground that there was such irregularity in declaring the interference as to preclude the proper determination of the right of registration. The reasons for appeal here allege that the Examiner erred in holding the papers submitted by the Allen Company are sufficient to establish a prima facie case of abandonment, and particularly because the papers filed by the Allen Company to show abandonment were not under oath.

The abstract of title shows that Braun has not transferred the mark on the Patent Office records, and therefore, as far as the Office is concerned, we must assume prima facie that if the mark is still

tails of construction of the tractor which were present in the original tractor. In fact, all the elements in the claim were present in the original tractor, with the exception of the connection between the exhaust pipes and tubular arm. Admitting that the conception of this connection was original with Melcher, it forms but one of the features included in the claim. It seems only natural that one building Hartsough's tractor would contemplate the provision of a muffler and would readily perceive the availability of the tubular arm for this purpose. The conception of the improvement flowed naturally from the task of making tractors in accordance with the teachings of Hartsough. The invention was not in the improvement per se, but constituted a refinement in the tractor organization invented by Hartsough which was ancillary to his invention. A close parallel is found in the case of *Lloyd* v. *Antisdel* (95 O. G., 1645), which contains the following language:

> Antisdel concedes that the feature of the headed rivet was Lloyd's suggestion. But the headed rivet is only one element of the invention; it is not the matter in issue; the controversy is over the invention as a whole, the combination stated in the claims. Lloyd claims this combination; but he has not proved his title to it by any satisfactory testimony. He does not show that he suggested or invented anything in the combination except the headed rivet, and that is conceded to him. There is no testimony whatever on his part that he ever invented anything else in the combination. From the suggestions of Antisdel and from the materials furnished by him, he may have made a newer and better model than was Antisdel's; but that does not constitute invention. To his action may well be applied the principle of the case of the *Agawam Co.* v. *Jordon* (7 Wall., 583), wherein it was said:
>
> "Where a person has discovered an improved principle in a machine, manufacture or composition of matter, and employs other persons to assist him in carrying out that principle, and they, in the course of experiments arising from that employment, make valuable discoveries ancillary to the plan and preconceived design of the employer, such suggested improvements are in general to be regarded as the property of the party who discovered the original improved principle, and may be embodied in his patent as a part of his invention."

Another case in point is the case of *Kreag* v. *Geen* (1270 O. G., 1581). In that case Kreag employed Geen to make a shoe-polishing brush. It was alleged that Geen contributed the improvement of fluted edges to the pads. Speaking for the court, Justice Shepherd said:

> The relation of employer and employee once established, the law is well settled that when one conceives the principle or plan of an invention, and employs another to perfect the details and realize his conception, though the latter may make valuable improvements therein, such improved results belong to the employer. (Numerous cases cited.) Applying this principle to the established circumstances of the case, we are forced to the conclusion that Kreag had in mind the general plan of the new brush with resilient felt pads and sheepskin polishing-surface when he employed Geen to undertake the work of construction. Whether he had in mind the fluted edges of the pads, also, is immaterial. With the three brushes, before described, in his possession, and with his mind bent upon improvement upon them, we must believe that he had a general conception of the new construction; and that he must necessarily have communicated that conception to Geen, who by his skill as a mechanic was able to produce the desired construction, as well as to improve it. Notwithstanding the improvement upon the combinations of form and materials shown in the old brushes has been declared the exercise of inventive talent, we think it was undoubtedly within the conception of Kreag in a crude form, at least, and that he disclosed it to Geen. As before declared, it is not within our province, under the limitation of the jurisdiction conferred upon us in such cases as this, to say that the improvement was the result of mere mechanical skill rather than of invention. Whatever it was, we are of the opinion upon consideration of all the facts and circumstances disclosed by the evidence, that Kreag and not Geen is entitled to the benefit of it.

Also in *Moody* v. *Colby*, supra, the Assistant Commissioner said:

> Accepting Moody's denial that Colby disclosed to him any of the details of the invention as conclusive in the absence of any testimony on behalf of Colby, the decision must still be adverse to Moody, since the record shows that the main plan of the invention was disclosed to Moody by Colby.

But one point remains for consideration, and that is, does the testimony establish such opposition on the part of Hartsough to the embodiment of the improvement in the 10 tractors as to preclude him from receiving the benefit of their construction for a date of reduction to practice. As stated before, there is direct conflict of testimony as to this alleged opposition. This testimony has been carefully analyzed in the decisions of the lower tribunals and need not be discussed in detail here. I am satisfied that the testimony on behalf of Melcher is not sufficient to overcome the heavy burden placed upon him by virtue of the fact that he is not only the junior party, but also occupies the position of employee.

It is accordingly held that the senior party, Hartsough, being the first to conceive and the first to reduce to practice, properly was awarded priority of invention.

The decision of the Examiners in Chief is affirmed.

EX PARTE GRIGSBY.

Decided May 29, 1923.

1. DESIGNS—PATENTABILITY.

Where a reference shows a windshield which is very difficult to distinguish from applicant's device, but a careful and close examination reveals that the curve of the reference is arcuate, whereas applicant's curve is slightly flattened at the end, *Held* that "details of that nature could not possibly make any appreciable difference between the devices for designs."

2. SAME—SAME—COMMERCIAL SUCCESS.

Any showing of commercial success can not benefit the applicant here, because the drawing does not show the specific device alleged to be on the market and also because it may be that the commercial success is due to structural advantage and not appearance.

3. SAME—SAME.

In design cases, as well as in structural cases, every shadow of a shade of a change of line does not import invention.

APPEAL from Examiners in Chief.

DESIGN FOR WEATHER SHIELD AND GLARE VISOR.

Messrs. Zabel & Mueller and *Messrs. Milans & Milans* for the applicant.

FENNING, *Assistant Commissioner:*

This is an appeal from the action of the Examiners in Chief affirming the Primary Examiner in rejecting an application for a patent for a design for weather shield and glare visor.

[1] Applicant's visor which is to be placed over the windshield of an automobile is clearly met by Design No. 57,653, Holsberg, and No. 1,362,759, Tabor, cited by the Examiner. Holsberg shows a windshield which is very difficult to distinguish from applicant's device. A careful and close examination reveals that Holsberg's curve is arcuate, whereas applicant's curve is slightly flattened at the end.

> Details of that nature could not possibly make any appreciable difference between the devices for designs. (*In re Freeman*, 1904, C. D., 619; 109 O. G., 1339; 23 App. D. C., 226.)

[2] Applicant has another application pending for a structural patent for his visor, and it seems clear that if there is any invention it must be in structural details. Indeed, applicant's main argument here goes to show the structural advantages of his windshield over those of the references. He points out that his particular form of curve was adopted not because it was beautiful, but because in some way or other it gave a better protection against glare. Even that argument, however, seems to be directed not toward the specific form shown in the drawing, but toward an appreciably different form, of which a specimen was exhibited at the hearing and which seems to have been put upon the market with some success. The device which is alleged to have gone upon the market deviates further from applicant's drawing here than does the Holsberg device. Clearly any showing of commercial success from which may be assumed invention can not benefit applicant here, because the present drawing does not show the specific device alleged to be on the market, and also because it may be that the commercial success is due to structural advantages and not appearances. The rejection of the present case is clearly justified in view of the court of appeals decisions in *in re Schraubstadter* (1905, C. D., 541; 120 O. G., 1167; 26 App. D. C., 331); *in re Tournier* (1901, C. D., 306; 94 O. G., 2166; 17 App. D. C., 481) and *in re Sherman* (1910, C. D., 382; 154 O. G., 839; 35 App. D. C., 100), as well as the following cases in the Federal courts: *Knapp* v. *Will & Baumer Co.* (273 Fed. Rep., 380; 290 O. G., 645); *North British Rubber Co., Limited* v. *Racine Rubber Tire Co.* (271 Fed Rep., 936); *Baker* v. *Hughes-Evans Co.* (270 Fed Rep., 97); *H. D. Smith & Co.* v. *Peck, Stow & Wilcox Co.* (262 Fed. Rep., 415; 277 O. G., 981); *Backstay Machine and Leather Co.* v. *Hamilton* (262 Fed Rep., 411; 278 O. G., 710); *Crystal Percolator Company, Inc.*, v. *Landers, Frary & Clark* (258 Fed Rep., 28); *Fred Messmer Mfg. Co.* v. *Albert Pick & Co.* (251 Fed. Rep., 894); *Metallic Industries, Inc.*, v. *Brauning* (279 (Fed. Rep., 856).

[3] Clearly in design cases, as well as in structural cases, every shadow of a shade of a change of line does not import invention. (*Majestic Electric Co.* v. *Westinghouse Electric Co.*, 276 Fed. Rep., 676.)

The Examiners in Chief are affirmed.

ALLEN FLOUR COMPANY *v.* BRAUN.

Decided November 6, 1923.

TRADE-MARKS—INTERFERENCE—PRIMA FACIE SHOWING OF ABANDONMENT.

Where the Allen Flour Company filed an application for registration of a trade-mark, which was refused in view of B.'s trade-mark registered in 1909, and the company then furnished (1) a certified abstract of title of the B. mark showing no assignment of record; (2) an undelivered registered letter addressed to B. at the address given in his application for registration, marked "Returned to writer," "Unclaimed;" (3) a statement from a mercantile agency indicating that B. had left his former place of business and had for several years been doing business in another line, *Held* that the company had made out a prima facie case of abandonment of B.'s mark sufficient without verification to justify the declaration of an interference between B. and the company.

APPEAL from Examiner of Trade-Marks.

ON PETITION.

TRADE-MARK FOR BREAD.

Mr. Lee W. Mida for Allen Flour Company.

Mr. Earl T. Ragan for Braun.

FENNING, *Assistant Commissioner:*

This is an appeal and a petition from the action of the Examiner of Trade-Marks refusing to dissolve the interference.

The Allen Company filed an application for registration of a trade-mark which was refused in view of a trade-mark registered in 1909 as No. 83,217 to Braun. The Allen Company then furnished (1) a certified abstract of title of the Braun mark showing no assignment of record; (2) an undelivered registered letter addressed to Braun at the address given in his application for registration, returned by the post office marked "Returned to writer," "Unclaimed;" (3) a statement in the usual form from a mercantile agency indicating that Braun had been located at an address other than that given in his trade-mark application; that several years ago he left the employ of the baking company of which he had been superintendent and was doing experimental laboratory work for a tea and spice company, and that he was formerly employed, several years ago, at the address given in his application for registration.

On that showing an interference was declared between the Allen Company's application and the Braun registration, on the ground that the Allen Company had made out a prima facie case of abandonment of the mark of Braun.

When the interference was declared the usual notice was mailed to Braun by the Office, but returned by the post-office authorities as "undeliverable."

Braun through his attorney moved to dissolve the interference on the ground that there was such irregularity in declaring the interference as to preclude the proper determination of the right of registration. The reasons for appeal here allege that the Examiner erred in holding the papers submitted by the Allen Company are sufficient to establish a prima facie case of abandonment, and particularly because the papers filed by the Allen Company to show abandonment were not under oath.

The abstract of title shows that Braun has not transferred the mark on the Patent Office records, and therefore, as far as the Office is concerned, we must assume prima facie that if the mark is still

in use it is used by Braun. Certainly no oath is necessary to fortify the certificate of the Office on the abstract of title.

The returned letter by the post office is in the form with which the public is familiar and on its face is sufficient to indicate prima facie that Braun is not continuing business at the address given in his application. No oath is necessary to fortify the apparently official stamps of the Post-Office Department.

The statement of the mercantile agency is in the usual form presented to business men and accepted by them. It is the sort of paper on which a reasonably-cautious individual might base his actions. It is of the character which is usually and generally accepted on its face without affidavit, and it seems not unreasonable for the Patent Office to follow the course of business adopted generally by the world and accept such a statement for a prima facie showing.

The interference was declared over ten months ago, and there are twenty papers in the interference file. I can find, however, no statement by Braun or by his attorney to the effect that Braun is still in business and employing the mark covered by registration No. 83,217.

The case of *ex parte Zugschwert* (140 MS. Dec., 218) does not control in this case, since the question there was not how a prima facie case might be made out, but how actual abandonment might be proved.

The decision of the Examiner of Trade-Marks is affirmed.

ADVERSE DECISIONS IN INTERFERENCE.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,340,827, Hayes and Laughlin, Accounting machine, decided October 13, 1923, claim 61.

Pat. 1,345,656, J. A. Yunck, Apparatus for producing light hydrocarbons, decided November 3, 1923, claims 1 and 5.

Pat. 1,405,014, Scudder and Huguelet, Machine for affixing fastenings to envelopes, decided October 29, 1923, claims 1, 3, and 4.

Interference Notices.

U. S. PATENT OFFICE, *Washington, Nov. 16, 1923.*

George W. Caldwell, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of I. N. Stowe, M. D., 509–10–11 National Bank Building, Atlanta, Ga., for registration of a trade-mark and trade-mark registered June 17, 1902, No. 38,469, to George W. Caldwell, Middletown, N. Y., and a notice of such declarstion sent by registered mail to said Caldwell at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Caldwell, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Nov. 16, 1923.*

Wm. Henning Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of S. S. Pierce Co., 73 Tremont Street, Boston, Mass., for registration of a trade-mark and trade-mark registered July 31, 1906, No. 54,885, to Wm. Henning Co., 117 East North Avenue, Chicago, Ill., and a notice of such declaration sent by registered mail to said Wm. Henning Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Wm. Henning Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Nov. 16, 1923.*

The Radio-Sulpho Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Francois X. Rondeau, 35 Provost Street, Brockton, Mass., for registration of a trade-mark and trade-mark registered January 2, 1906, No. 48,533, to The Radio-Sulpho Co., 210 and 211 Mack Block, Denver, Colo., and a notice of such declaration sent by registered mail to said Radio-Sulpho Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Radio-Sulpho Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Nov. 20, 1923.*

Thomas Smith, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Carl R. Rostine, 105 North Euclid Avenue, Ontario, Calif., for registration of a trade-mark and trade-mark registered May 15, 1900, No. 34,647, to Thomas Smith, 20 West Street, Paterson, N. J., and a notice of such declaration sent by registered mail to said Smith at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Smith, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Nov. 9, 1923.*

Anhydrous Battery Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Camel Dry Storage Battery Co., of 3039 Elm Street, Dallas, Tex., for registration of a trade-mark and trade-mark registered May 3, 1910, No. 77,697, to the Anhydrous Battery Company, 222–224 South Canal Street, Chicago, Ill., and a notice of such declaration sent by registered mail to said Anhydrous Battery Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Anhydrous Battery Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Nov. 10, 1923.*

George Waldron Blake, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Emily Russell Claflin, of 1407 Fifth Street, Santa Monica, Calif., for registration of a trade-mark and trade-mark registered July 21, 1896, No. 28,625, to George Waldron Blake, 202 Broadway, New York, N. Y., and a notice of such declaration sent by registered mail to said Blake at the said address having been returned by the post office undeliverable, notice is hereby given that unless said George Waldron Blake, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 11, 1923.

[VOL. 317. No. 2.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 115,504. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOLT & COMPANY, New York, N. Y. Filed Jan. 29, 1919.

LUCERO

Particular description of goods.—Wheat Flour.
Claims use since May 18, 1893.

Ser. No. 146,196. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARTHUR BECK, Chicago, Ill. Filed Apr. 15, 1921.

ARTBECK

Particular description of goods.—Flavoring Extracts for Food Purposes.
Claims use since Jan. 1, 1921.

Ser. No. 146,213. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. P. HOOD & SONS, INC., Boston, Mass. Filed Apr. 15, 1921.

Jersey Belle

"Jersey Belle."

Particular description of goods.—Butter, Dried Beans, Bread, Buttermilk, Cereal Breakfast Foods, Coffee, Cocoa, Candy, Condensed Milk, Cheese, Cornstarch, Cake, Cookies, Crackers, Cream, Shredded Coconut; Dried, Fresh, and Evaporated Currants; Doughnuts, Dried Fruits, French Dressing, Mayonnaise Dressing, Salad Dressing, Dates, Eggs (Fresh and Preserved), Evaporated Milk, Evaporated Cream, Extracts and Essences for Food-Flavoring Purposes, Flavors and Fruit Sirups for Use in Preparing Foods, Canned Fruits, Canned Vegetables, Canned Fish, Wheat Flour, Potato Flour, Prepared Flour, Figs, Gelatin, Ice Cream, Jelly Powders and Tablets, Jams, Catchup, Lard, Marmalade, Fresh Milk, Milk Powder, Modified Milk, Molasses, Mustard, Rye Meal, Corn Meal, Wheat Meal, Margarines, Mincemeat; Candied, Natural, and Shelled Nuts; Salad Oil, Cooking Oil, Olive Oil, Olives, Dried Peas, Peanut Butter, Pop Corn, Potato Chips, Fruit Preserves, Prunes, Pickles, Chili Sauce, Horse-Radish, Raisins, Rice, Spices, Sugar (Granulated and Powdered), Maple Sugar, Cube Sugar, Maple Sirup, Honey, Canned Soups, Beef Cubes, Tapioca, Tea, and Vinegar.
Claims use since 1915 on tea; since 1917 on butter; since Jan. 1, 1921, on balance of products.

Ser. No. 151,104. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRANKLIN STEPHENS, Atlantic City, N. J. Filed July 29, 1921.

L

Particular description of goods.—Hand Soaps.
Claims use since June 1, 1921.

Ser. No. 154,181. (CLASS 2. RECEPTACLES.) B. FISCHER & CO., INC., New York, N. Y. Filed Oct. 17, 1921.

VAC-KEPT

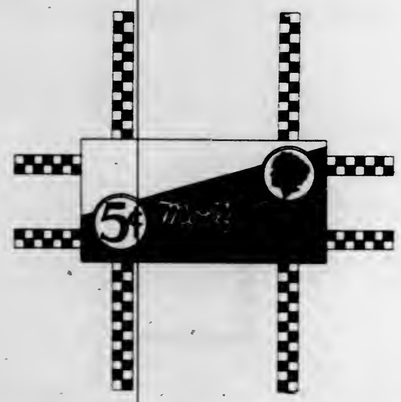
Particular description of goods.—Containers for Coffee, Tea, Spices, Rice, Etc.
Claims use since Sept. 15, 1921.

Ser. No. 157,092. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EMPIRE CHEESE COMPANY, New York, N. Y. Filed Dec. 24, 1921.



Particular description of goods.—Cheese.
Claims use since Dec. 1, 1921.

Ser. No. 158,898. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SHOTWELL MFG. CO., Chicago, Ill. Filed Feb. 4, 1922.



Particular description of goods.—Chocolate-Covered Candy Bar.
Claims use since Sept. 12, 1921.

Ser. No. 159,623. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MERTON A. SHEPARDSON, Springfield, Mass. Filed Feb. 20, 1922.

ESCO-VAN

Particular description of goods.—Pure Flavoring Extracts, Imitation Flavoring Extracts, Paste Vanillas and Paste Coffees, All for Use as Ingredients of Foods.
Claims use since Mar. 11, 1912.

Ser. No. 159,709. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. W. KLENSCH & CO. INCORPORATED, New York, N. Y. Filed Feb. 23, 1922.

PARMA BRAND GRATED CHEESE

No claim is made to the words "Brand," "Grated Cheese," and "Parma" apart from the mark as shown, no common-law rights however, being waived.
Particular description of goods.—Cheese.
Claims use since about July, 1921.

Ser. No. 160,297. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ONTARIO MILLING COMPANY, INCORPORATED, Oswego, N. Y. Filed Mar. 7, 1922.

Cream Pot

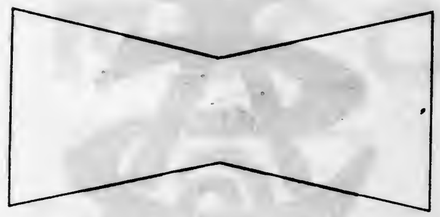
Particular description of goods.—Dairy Feeds.
Claims use since Jan. 9, 1922.

Ser. No. 160,875. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PETER M. DORSCH, Washington, D. C. Filed Mar. 18, 1922.



No registration rights are claimed for the word "Rolls" apart from the mark shown in the drawing, but applicant waives none of his common-law rights in said mark or any part thereof.
Particular description of goods.—Bread and Rolls.
Claims use since March, 1921.

Ser. No. 161,061. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PENBERTHY INJECTOR COMPANY, Detroit, Mich. Filed Mar. 22, 1922.



The drawing is a venturi-shaped symbol.
Particular description of goods.—Centrifugal Pumps, Hydraulic Pumps, Atomizers for Vapor Conduits, Carburetors, Injectors, Ejectors, Oil Cups, Grease Cups, Priming Cups, and Lubricators.
Claims use since July 1, 1892.

Ser. No. 161,062. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROSENBERG BROS. & CO., San Francisco, Calif. Filed Mar. 22, 1922.

ENSIGN

Particular description of goods.—Rice and Rice Flour.
Claims use since September, 1917.

Ser. No. 161,649. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STANDARD NUT MARGARINE CO., Indianapolis, Ind. Filed Apr. 1, 1922.



As represented in the drawing the colors are yellow in the upper portion and blue in the lower portion. The word "Standard" is hereby disclaimed apart from the mark as shown.
Particular description of goods.—Oleomargarine.
Claims use since Jan. 1, 1921.

Ser. No. 161,653. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) BARON H. SCOTFORD, Atlantic City, N. J. Filed Apr. 1, 1922.

ADVEROLA

Particular description of goods.—Animated-Shadow-Casting Devices for Use as Novelties and for Ornamental Advertising and Amusement Purposes, the Same Comprising Translucent Members with Associated Objects so Formed and Arranged with Respect to the Translucent Members and a Source of Light as to Cast Animated Shadows upon the Former When Relative Movement Between the Translucent Members or Objects and the Source of Light is Effected, and Rotatable Lamp-Shade Device for Ornamental and Advertising Purposes.
Claims use since 1921.

Ser. No. 163,622. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ELEPHANT STUDIOS, San Francisco, Calif. Filed May 10, 1922.



Particular description of goods.—Artists' Sets for Children, Consisting of Paints, Paint Boxes, Paint Containers, Paint Boards, Brushes, Easels, Palettes, Palette Knives, and Canvases.
Claims use since Apr. 12, 1922.

Ser. No. 163,695. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) MANNESMANNRÖHREN WERKE, Dusseldorf, Germany. Filed May 11, 1922.



Particular description of goods.—Steam Boilers, Steam Condensers, Hot-Air and Hot-Water Furnaces, Ventilator Fans Other Than Electrical, Slice Bars and Grate Bars

for Furnaces, Radiators, Fire and Water Tubes for Boilers; Kerosene, Gasoline, Crude-Oil, and Gas Heating and Cooking Stoves; Stovepipes, Ranges, Household Cooking Ovens, Chimney Pipes, Worm Pipes, Worm Pipes for Condensers, Gas-Light Brackets, Lamp Stands, and Lamp Posts.

Claims use since November, 1912.

Ser. No. 164,912. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MABEL HARDING, doing business as Karavan Packing Co., Philadelphia, Pa. Filed June 3, 1922.

KARAVAN

Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Fish, Jam, Olive Oil, and Olives.

Claims use since Dec. 20, 1921.

Ser. No. 165,056. (CLASS 39. CLOTHING.) THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Filed June 6, 1922.



The drawing is lined for red.

Particular description of goods.—Fabric and Leather Gloves and Mittens and Fabric Gloves and Mittens.

Claims use since May 5, 1922.

Ser. No. 165,419. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE SURGEONS SPECIALTY COMPANY, Cincinnati, Ohio. Filed June 12, 1922.

SAFESTA

Particular description of goods.—Bed-Elevating Devices Known as Bed Jacks.

Claims use since Feb. 26, 1922.

Ser. No. 165,518. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ALLEGHENY STEEL COMPANY, Brackenridge, Pa. Filed June 15, 1922.



Particular description of goods.—Steel and Iron Sheets and Plates, Ingot Molds, Iron and Steel Castings and Forgings.

Claims use since December, 1921.

Ser. No. 165,716. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PHOSPHO FOOD CO. INC., Los Angeles, Calif. Filed June 19, 1922.



Particular description of goods.—Breakfast Cereal and Remedial Food.

Claims use since July 1, 1897.

Ser. No. 166,053. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRUIT HAVEN FARM, Woodbury, Ga. Filed June 26, 1922.



Particular description of goods.—Fresh Peaches.

Claims use since 1914.

Ser. No. 166,532. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAATSCHAPPIJ TOT EXPLOITATIE VAN RADEMAKER'S KONINKLIJKE CACAO EN CHOCOLADE FABRIEKEN, The Hague, Netherlands. Filed July 6, 1922.

MECO

Particular description of goods.—Chocolate Candy.

Claims use since 1906.

Ser. No. 166,966. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WARREN SOAP MANUFACTURING COMPANY, Boston, Mass. Filed July 15, 1922.



Particular description of goods.—Soap.

Claims use since Apr. 15, 1922.

Ser. No. 168,182. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ARSENE J. VAN EXEM, New York, N. Y. Filed Aug. 12, 1922.

BAKELAND

Particular description of goods.—Pearls and Precious Stones, Both Artificial and Natural, and Jewelry for Personal Wear, Not Including Watches, in Which Such Pearls and Precious Stones are Mounted.

Claims use since about July 14, 1922.

Ser. No. 168,474. (CLASS 37. PAPER AND STATIONERY.) J. P. LEWIS COMPANY, Beaver Falls, N. Y. Filed Aug. 19, 1922.

SATINKOTE

"Satinkote."

Particular description of goods.—Ticket Bristol.

Claims use since Feb. 1, 1922.

Ser. No. 168,730. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARFUMERIE ANTHEMYS (S. A.), Cauderan, France. Filed Aug. 26, 1922.



No claim is made to the words "Dentifrice" and "Paris" aside from the mark as shown.

Particular description of goods.—Dentifrices.

Claims use since June 3, 1918.

Ser. No. 169,200. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CRESCENT BELT FASTENER COMPANY, New York, N. Y. Filed Sept. 8, 1922.

CRESCENT

Particular description of goods.—Rivets, Including Plain, Solid, Slotted, Pronged, Bifurcated, or Tubular.

Claims use since September, 1897.

Ser. No. 169,201. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CRESCENT BELT FASTENER COMPANY, New York, N. Y. Filed Sept. 8, 1922.

CRESCENT

Particular description of goods.—Extractors—Namely, Rivet Cutters, Pullers, Pincers, Pliers, and Tongs for Machinery Belting—and Also Belt Clamps for Holding the Belt in Position While Being Laced or Fastened.

Claims use since September, 1897.

Ser. No. 169,525. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER O. BIRK CANDY COMPANY, Chicago, Ill. Filed Sept. 16, 1922.

Chocobite

Particular description of goods.—Candy.

Claims use since Sept. 1, 1922.

Ser. No. 169,552. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LODI MILL & ELEVATOR CO., Lodi, Ohio, now by change of name The Lodi Cereal Company, Lodi, Ohio, a Corporation of Ohio. Filed Sept. 16, 1922.

HEP

Particular description of goods.—Cereal or Breakfast Foods Manufactured from the Whole Grain of Selected Wheat.
Claims use since May 15, 1922.

Ser. No. 169,795. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ALLEGHENY STEEL COMPANY, Brackenridge, Pa. Filed Sept. 22, 1922.

ASCO

Particular description of goods.—Journal Boxes and Journal-Box Lids, Railway Cars, and the Like.
Claims use since August, 1917.

Ser. No. 169,992. (CLASS 38. PRINTS AND PUBLICATIONS.) THE TRIBUNE COMPANY, Chicago, Ill. Filed Sept. 27, 1922.

Colorolo Magazine

Trade-mark "Colorolo."
Particular description of goods.—Weekly Supplement for a Newspaper Magazine.
Claims use since June 1, 1922.

Ser. No. 171,079. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERBERT L. HANDY, Springfield, Mass. Filed Oct. 23, 1922.



Particular description of goods.—Meat Products—Namely, Bologna Sausage, Pressed Ham, Minced Ham, Blood Head Cheese, White Head Cheese, Frankfurters, Braunschweiger, Ham Roll, Pork Roll, Luncheon Loaf, Minced Luncheon, and Pressed Luncheon.
Claims use since early part of 1913.

Ser. No. 171,166. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE FITGER COMPANY, Duluth, Minn. Filed Oct. 25, 1922.

FIRESIDE

Particular description of goods.—Chocolate Creams.
Claims use since October, 1921.

Ser. No. 171,869. (CLASS 39. CLOTHING.) THE SANITARY RUBBER NOVELTY CO., Chicago, Ill. Filed Nov. 11, 1922.

TIDY

Particular description of goods.—Bibs.
Claims use since Feb. 1, 1921.

Ser. No. 171,888. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMBROSIA CHOCOLATE CO., Milwaukee, Wis. Filed Nov. 13, 1922.

PEANUT SLABS

Applicant disclaims the word "Peanut" apart from the mark as shown.
Particular description of goods.—Candy.
Claims use since December, 1915.

Ser. No. 172,039. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ADA GREEN, St. Louis, Mo. Filed Nov. 15, 1922.



ADA GREEN
2632a Olive St. St. Louis, Mo.

The words "Ada Green, 2632a Olive St. St. Louis, Mo.," appearing on the drawing are disclaimed as a part of the trade-mark.
Particular description of goods.—Pile Remedy.
Claims use since August, 1921.

Ser. No. 172,178. (CLASS 2. RECEPTACLES.) F. O. SCHOENDINGER, Columbus, Ohio. Filed Nov. 17, 1922.

FOSCO

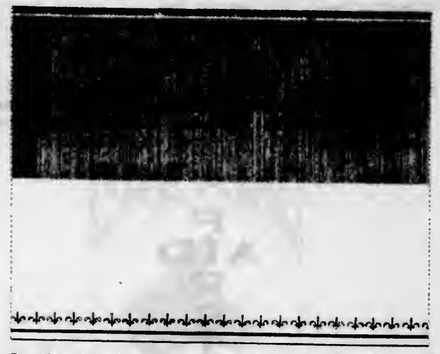
Particular description of goods.—Linen and Clothes Hampers, Trays, Cans, Corneribs, Metal Stock Tanks, Hog Troughs, Poultry Troughs, Storage Tanks, Wagon Tanks, and Waste Receptacles.
Claims use since Oct. 1, 1921.

Ser. No. 172,317. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE BERBECKER & ROWLAND MFG. CO., Waterville, Conn. Filed Nov. 21, 1922.



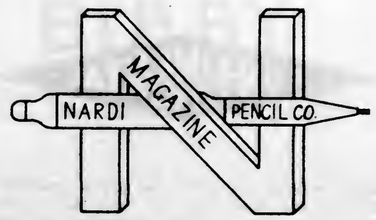
No right is claimed to the representation of a furniture slide apart from the mark shown in the drawing.
Particular description of goods.—Furniture Slides.
Claims use since Jan. 20, 1922.

Ser. No. 172,369. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH CAMPBELL COMPANY, Camden, N. J., assignor to Campbell Soup Company, Camden, N. J., a Corporation of New Jersey. Filed Nov. 22, 1922.



In the drawing the rectangular panels are: upper one red and lower one white. The border fleur-de-lis are in gold. The upper border stripe is red. The outline of the label is not claimed apart from the other features shown.
Particular description of goods.—Canned Vegetables—Namely, Tomatoes, Corn, Peas, and Beans.
Claims use since about October, 1922.

Ser. No. 172,428. (CLASS 37. PAPER AND STATIONERY.) NARDI MAGAZINE PENCIL CO., Camden, N. J. Filed Nov. 23, 1922.



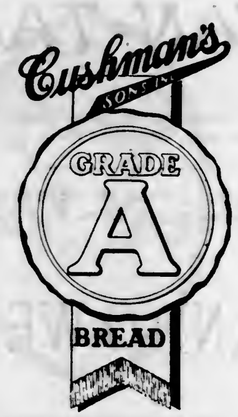
Without waiving any common-law rights the showing of the pencil is disclaimed apart from the mark as shown.
Particular description of goods.—Pencils.
Claims use since on or about Nov. 9, 1922.

Ser. No. 172,808. (CLASS 39. CLOTHING.) SYRACUSE DRY GOODS COMPANY, Syracuse, N. Y. Filed Dec. 1, 1922.

Marigold

Shaded to indicate red color.
Particular description of goods.—Knitted or Textile Union Suits, Ribbed Vests and Pants, and Hosiery for Men, Misses, Women, and Children.
Claims use since Jan. 1, 1915.

Ser. No. 173,073. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CUSHMAN'S SONS, INC., New York, N. Y. Filed Dec. 8, 1922.



The right to exclusive use of the words "Grade Bread" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Bread.
Claims use since Oct. 18, 1922.

Ser. No. 173,178. (CLASS 12. CONSTRUCTION MATERIALS.) CONTINENTAL ROCK ASPHALT COMPANY, Kansas City, Mo. Filed Dec. 11, 1922.

CONTINENTAL ROCK ASPHALT

Without waiving any common-law rights applicant does not claim in this application any right to the exclusive use of the words "Rock Asphalt" apart from the mark as a whole.

Particular description of goods.—Rock Asphalt.
Claims use since July, 1921.

Ser. No. 173,572. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MCCREA MFG. CO., Minneapolis, Minn. Filed Dec. 19, 1922.

WESTERN STABILT

Particular description of goods.—Commercial Cab Bodies.
Claims use since 1919.

Ser. No. 174,220. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN W. SURBRUG, doing business as Surbrug Chocolate Corporation, New York, N. Y. Filed Jan. 5, 1923.

FAN-TAN

Particular description of goods.—Candy.
Claims use since December, 1921.

Ser. No. 174,283. (CLASS 39. CLOTHING.) AUGUSTA KNITTING CORPORATION, Utica, N. Y. Filed Jan. 8, 1923.

BAND-O-WEAR

No claim is made to the exclusive right to the use of the word "Wear" apart from the mark shown in the drawing.

Particular description of goods.—One-Piece Knitted Underwear Comprising Ladies' Union Suits, Ladies' Vests, and Bathing Suits.
Claims use since Dec. 22, 1922.

Ser. No. 174,582. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MASSACHUSETTS BAKING COMPANY, doing business as Six Bakers, Springfield, Mass. Filed Jan. 13, 1923.

MASTER-LOAF

No claim made to the word "Loaf" apart from the mark as shown.

Particular description of goods.—Bread.
Claims use since May 10, 1922.

Ser. No. 175,156. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) DANA C. POULSEN, Santa Rosa, Calif. Filed Jan. 26, 1923.

VARBAG

Particular description of goods.—Fountain Syringes, Hot-Water Bags, and Water Bags of Soft Rubber Heart Shaped in Design for Internal Use.
Claims use since Nov. 27, 1922.

Ser. No. 175,306. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE DEANE PLASTER CO., Yonkers, N. Y. Filed Jan. 30, 1923. Under ten-year proviso.

FIRST AID

Particular description of goods.—Antiseptic Dressings, Plain, Absorbent, and Medicated Cottons and Gauzes, and Plain, Medicated, and Adhesive Bandages.
Claims use since 1886.

Ser. No. 175,345. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CHANNELL CHEMICAL COMPANY, Chicago, Ill.; Toronto, Ontario, Canada; London, England; and Paris, France. Filed Jan. 31, 1923.

CEDARINE

Particular description of goods.—Cleaning and Polishing Preparations, and Particularly a Polish and Cleanser for Furniture, Pianos, Linoleum, Floors, Autos, All Kinds of Finished Woods, Hardwood, Etc.
Claims use since Jan. 1, 1887.

Ser. No. 175,346. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CHANNELL CHEMICAL COMPANY, Chicago, Ill.; Toronto, Ontario, Canada; London, England; and Paris, France. Filed Jan. 31, 1923.



Particular description of goods.—Polish and Cleaner for Furniture, Pianos, Linoleum, Floors, Autos, All Kinds of Finished Woods, Hardwood, Etc.
Claims use since Nov. 1, 1886.

Ser. No. 175,836. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EMBRY E. ANDERSON, Memphis, Tenn. Filed Feb. 10, 1923.



Particular description of goods.—Oats for Use as Stock Feed.
Claims use since March, 1922.

Ser. No. 175,913. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. BIBBY & SONS LIMITED, Liverpool, England. Filed Feb. 12, 1923. Under ten-year proviso.

BIBBY

Particular description of goods.—Food for Cattle.
Claims use since about 1879.

Ser. No. 176,410. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ALBERT KLEKNER, doing business as French American Mfg. Co., New York, N. Y. Filed Feb. 21, 1923.

FAMCO

Particular description of goods.—Tapestries, Panels, Centerpieces, and Runners.
Claims use since Jan. 1, 1921.

Ser. No. 176,414. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MCCALL GRONIGER CO., Cincinnati, Ohio. Filed Feb. 21, 1923.



No claim is made to the words "California Fruit-Nut Sandwich, Every Bite a Delight" apart from the mark shown in the drawing.

Particular description of goods.—Fruit-Nut Sandwich.
Claims use since Sept. 27, 1922.

Ser. No. 176,508. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STAR CHICK HATCHERY, Washington Township, Osage County, and Westphalia, Mo. Filed Feb. 23, 1923.



Applicant disclaims as a part of his mark the words "Star Chick Hatchery" except in connection with the remaining matter.

Particular description of goods.—Baby Chicks and Eggs.
Claims use since July 1, 1922.

Ser. No. 176,782. (CLASS 37. PAPER AND STATIONERY.) BERLIN & JONES COMPANY, INC., New York, N. Y. Filed Mar. 1, 1923.

OLDE MILL BOND

The word "Bond" is disclaimed apart from the trade-mark shown.

Particular description of goods.—Stationery—Namely, Writing Paper of Various Kinds and Sizes and Envelopes Packed in Cardboard Boxes in Which They are Sold as Articles of Merchandise.
Claims use since on or about Jan. 1, 1900.

Ser. No. 176,823. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) "FRIEND" MANUFACTURING CO., Gasport, N. Y. Filed Mar. 2, 1923.

"FRIEND"

Particular description of goods.—Insecticide Sprayers and Parts Therefor.
Claims use since 1907.

Ser. No. 177,284. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOCRNAY, INC., Milwaukee, Wis. Filed Mar. 10, 1923.

VIVANTE

Particular description of goods.—Chemicals, Medicines, and Pharmaceutical Preparations.
Claims use since Mar. 6, 1923.

Ser. No. 177,311. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM MENNER, Newark, N. J. Filed Mar. 12, 1923.



The portrait appearing on the drawing is that of applicant, and applicant makes no claim to the word "Salve."

Particular description of goods.—Ointments and Plasters for Healing Wounds, Cuts, Sores, Boils, Abscesses, and Infections.
Claims use since Sept. 1, 1922.

Ser. No. 177,324. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARPAD POLANSKY, Douglastown, N. Y. Filed Mar. 12, 1923.

SKINPOL

Particular description of goods.—Cosmetic Powder and Rouge.
Claims use since Jan. 4, 1923.

Ser. No. 177,532. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALLERSTEIN PLANTATIONS, INC., New York, N. Y. Filed Mar. 15, 1923.

WALCO

Particular description of goods.—Fresh Citrous Fruits and Fresh Vegetables.
Claims use since Jan. 14, 1920.

Ser. No. 177,666. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GORDON BAKING CO., Chicago, Ill. Filed Mar. 19, 1923.

SILVER CUP

Particular description of goods.—Bread.
Claims use since on or about Sept. 1, 1921.

Ser. No. 177,822. (CLASS 39. CLOTHING.) BLUE RIDGE MANUFACTURING COMPANY, INCORPORATED, Alexandria, Va. Filed Mar. 22, 1923.



Particular description of goods.—Work Shirts, Trousers, and Overalls.
Claims use since 1921.

Ser. No. 177,824. (CLASS 39. CLOTHING.) BLUE RIDGE MANUFACTURING COMPANY, INCORPORATED, Alexandria, Va. Filed Mar. 22, 1923.



Particular description of goods.—Work Shirts, Trousers, and Overalls.
Claims use since 1921.

Ser. No. 178,048. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ABRAM KROUDVIRD, New Bedford, Mass. Filed Mar. 26, 1923.

LAXATINA

Particular description of goods.—Bread.
Claims use since Feb. 1, 1922.

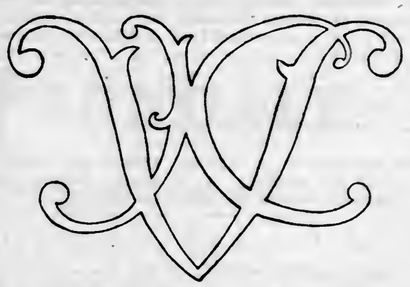
Ser. No. 178,053. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) MEADOWS MFG. CO., Bloomington, Ill. Filed Mar. 26, 1923.



The words "Speed and Endurance" and "Mfg. by the Meadows Manufacturing Co. Bloomington, Ill." appearing on the specimens not being a part of the trade-mark are hereby disclaimed.

Particular description of goods.—Washing Machines for Laundry Purposes.
Claims use since about November, 1922.

Ser. No. 178,148. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VILMA STANISITS, Rockville Center, N. Y. Filed Mar. 27, 1923.



Particular description of goods.—Preserved Meats.
Claims use since Feb. 19, 1923.

Ser. No. 178,650. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IRA O. WISE, Marionville, Mo. Filed Apr. 5, 1923.

HONEY CREEK

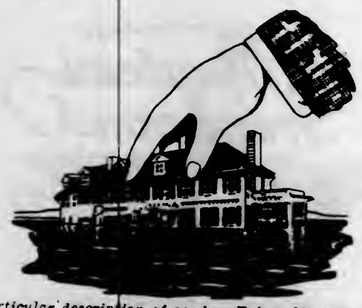
Particular description of goods.—Butter.
Claims use since 1911.

Ser. No. 178,808. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ERNST BECK, Lebanon, Mo. Filed Apr. 9, 1923.

Beck's Winterlay

Particular description of goods.—Eggs.
Claims use since December, 1919.

Ser. No. 179,244. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) TRUSCON STEEL COMPANY, doing business as The Truscon Laboratories, Detroit, Mich. Filed Apr. 16, 1923.



Particular description of goods.—Paint, Oil, Oleo-Resinous and Varnish Enamels; Dry, Ready-Mixed, and Semi-paste Paints; Stains, Varnishes, Paint and Varnish Removers, Flat and Gloss Finishes, Liquid Slating, Colors in Oil, Japan Colors, Graining Colors, Blending Colors, Ground Colors, Color Varnishes, Zinc White, Driers and Pigments; Fillers for Repairing Surfaces for Painting, Enameling, or Varnishing; Graining Compound; Rubbing, Polishing, and Finishing Oils; Polishes for Varnished, Enameled, and Lacquered Surfaces; Putty, Prepared Shellac, Dry Colors, Reducing Oils, Floor Waxes, Painters' Waxes; Finishing, Preserving, and Coating Waxes; Graphite Compound, Shingle Stain, Dampproofing Materials; Lacquer or Varnish Dressings for Leather, Rubber, or Cloth or for Compositions Used as Substitutes Therefor; Coal-Tar Paint, Shellac Substitute, Furniture Polish, Primers, Tinted Paste, Lacquer, Ochers in Oil, Paint Oils, Putty Compound, Litharge, Whiting, and Blending and Mottling Liquid.

Claims use since about April, 1914.

Ser. No. 179,687. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. E. STALEY MANUFACTURING COMPANY, Decatur, Ill. Filed Apr. 25, 1923.

CAMEO

Particular description of goods.—Corn Sugar.

Claims use since Feb. 8, 1923.

Ser. No. 179,721. (CLASS 43. THREAD AND YARN.) GUDEBROD BROS. SILK CO., New York, N. Y. Filed Apr. 26, 1923.

"NEVERKNOT"

CHAMPION SILK

No claim made to the word "Silk" apart from the mark shown.

Particular description of goods.—Silk Threads and Yarns.

Claims use since May 1, 1922.

Ser. No. 179,839. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN CANADA FLOUR MILLS COMPANY, LIMITED, Toronto, Ontario, Canada. Filed Apr. 27, 1923.



Particular description of goods.—Poultry Feed.

Claims use since February, 1922.

Ser. No. 180,030. (CLASS 39. CLOTHING.) SHIREK & HIRSCH, New York, N. Y. Filed May 1, 1923.

Personality Bilt

Particular description of goods.—Men's, Women's, and Children's Outer Garments—Namely, Suits, Overcoats, Raincoats, Cloaks, Capes, and Knickerbockers.

Claims use since Apr. 14, 1923.

Ser. No. 180,107. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COTY, INC., Wilmington, Del., and New York, N. Y. Filed May 3, 1923.

Coty

The facsimile signature is that of Francois Joseph de Spoturno Coty, president of the applicant corporation.

Particular description of goods.—Perfume, Toilet Water, Face Powder, Talcum Powder, Sachet Powder, Lotion for the Skin and Hair, Brilliantine, Dentifrices, Rouge, Eau de Cologne.

Claims use since 1905.

Ser. No. 180,208. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHANDLER RIVER CO-OPERATIVE CANNING ASSOCIATION, Jonesboro, Me. Filed May 5, 1923.

HANNAH WESTON

Particular description of goods.—Canned Blueberries.

Claims use since 1922.

Ser. No. 180,330. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK W. EPPERSON, Oakland, Calif. Filed May 8, 1923.

EPSICLE

Particular description of goods.—Frozen Confections.

Claims use since Mar. 17, 1923.

Ser. No. 180,649. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOE R. BERGER, doing business as Joe R. Berger Food Products Company, Cincinnati, Ohio. Filed May 15, 1923.



Particular description of goods.—Mayonnaise, Salad and Cooking Oil, Olive Oil, and Tartar Sauce.

Claims use since Apr. 1, 1922.

Ser. No. 180,662. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) HIERGESELL BROTHERS, Philadelphia, Pa. Filed May 15, 1923.

DOUBLE H B DIAMOND

Particular description of goods.—Calibrated Surgical and Clinical Syringes.

Claims use since March, 1923.

Ser. No. 180,663. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) HIERGESELL BROTHERS, Philadelphia, Pa. Filed May 15, 1923.

DOUBLE H B DIAMOND

Particular description of goods.—Laboratory, Chemical, and Surgical Glassware—Namely, Thermometers, Hydrometers, Thermohydrometers, Actinometers, Barkometers, Glucometers, Lactodensimeters, Lactometers, Saccharometers, Salinometers, Salometers, Sprayometers, Tannometers, Pyrometers, Flash-Point Apparatus, Calorimeters, Pipettes, Burettes, Graduated Cylinders, Flasks and Beakers, Combustion Tubes, Centrifuge Tubes, Viscosity Cups, Vacuum Flasks, Gas-Analysis Apparatus, Milk-Analysis Apparatus, Paint-Analysis Apparatus, Water-Analysis Apparatus, Oil-Analysis Apparatus, Distillation Apparatus, Glass Vessels of All Kinds for Volumetric Measurements and Chemical Work.

Claims use since March, 1923.

Ser. No. 180,845. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAVIS-CLEAVER PRODUCE COMPANY, Quincy, Ill. Filed May 19, 1923.

FERNDALE

Particular description of goods.—Butter.

Claims use since 1915.

Ser. No. 180,915. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOWARD C. WHITEHEAD, Salem, N. J. Filed May 19, 1923.

BUTTONWOOD



Particular description of goods.—Potatoes in Their Natural State.

Claims use since Sept. 1, 1922.

Ser. No. 180,964. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COLONIAL MUSH COMPANY, Chicago, Ill. Filed May 22, 1923.

COLONIAL



Particular description of goods.—Corn-Meal Mush and Philadelphia Scrapple.
Claims use since January, 1912.

Ser. No. 181,274. (CLASS 27. HOROLOGICAL INSTRUMENTS.) R. GSELL & CO., INC., New York, N. Y. Filed May 28, 1923.



No rights are asserted to the exclusive use of the word "Time" apart from the trade-mark shown in the drawing.
Particular description of goods.—Watches, Watchcases, Watch Movements, and Parts Thereof.
Claims use since Mar. 20, 1923.

Ser. No. 181,308. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE PIONEER PRODUCTS CO., Dayton, Ohio. Filed May 28, 1923.

Mollyclean

No claim is made to the word "Clean" apart from the mark shown in the drawing, "Mollyclean."
Particular description of goods.—Preparation for Cleaning and Removing Stains from Painted, Varnished, and Enameled Surfaces, Hardwood Floors, Tile, Marble, Ivory, Porcelain, Rugs, Carpets, Linoleum, Fabrics, Automobiles, Machinery, Implements, and the Hands.
Claims use since June 2, 1922.

Ser. No. 181,330. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) AMERICAN STOVE COMPANY, St. Louis, Mo. Filed May 29, 1923.



The trade-mark consists in providing the drum of the combustion section with its ends colored dark blue and a distinct intermediate band made up of a white background slightly mottled with dark blue, making the drum in appearance with three separate and distinct bands.
Particular description of goods.—Gas, Coal, Oil, and Gasoline Stoves.
Claims use since September, 1922.

Ser. No. 181,495. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PABST FARMS, Summit and Oconomowoc, Wis., assignor to Pabst Holstein Farms, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 2, 1923.

PICNIC

Particular description of goods.—Cheese.
Claims use since May 15, 1923.

Ser. No. 181,508. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE PIONEER PRODUCTS CO., Dayton, Ohio. Filed May 28, 1923.



No claim is made to the word "Clean" apart from the mark shown in the drawing.
Particular description of goods.—Preparation for Cleaning and Removing Stains from Painted, Varnished, and Enameled Surfaces, Hardwood Floors, Tile, Marble, Ivory, Porcelain, Rugs, Carpets, Linoleum, Fabrics, Automobiles, Machinery, Implements, and the Hands.
Claims use since June, 1922.

Ser. No. 181,775. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PURITY MAID PRODUCTS COMPANY, New Albany, Ind. Filed June 9, 1923.

PURITY MAID

Particular description of goods.—Fresh Milk and Cream, Butter, Cheese, and Ice Cream.
Claims use since 1915.

Ser. No. 181,913. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARL SCHMIDT, doing business as Fig Products Company of California, Figarden, Calif. Filed June 12, 1923.

LA-PALOMA

Particular description of goods.—Preserved Figs and Fig Butter.
Claims use since Jan. 6, 1923.

Ser. No. 181,919. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TAMAL PACKING CO., San Francisco, Calif. Filed June 12, 1923.

MUSTANG



Particular description of goods.—Canned Fruits and Vegetables.
Claims use since Apr. 1, 1919.

Ser. No. 181,920. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TAMAL PACKING CO., San Francisco, Calif. Filed June 12, 1923.

INDIAN BOY

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since Apr. 1, 1919.

Ser. No. 182,175. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PORTLAND FLOUR MILLS CO., Portland, Oreg. Filed June 18, 1923.

QUEEN ANNE

Particular description of goods.—Wheat Flour.
Claims use since 1904.

Ser. No. 182,312. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) L. VAN DER HEYDEN A HAUZEUR, Paris, France. Filed June 21, 1923.

LUTHÉAL

Particular description of goods.—Organs, Pianos, Harps, and Parts of Such Instruments.
Claims use since about Jan. 1, 1921.

Ser. No. 182,331. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CECIL C. CANNAN, doing business as Autoeez Manufacturing Company, Houston, Tex. Filed June 22, 1923.

FOUR — DEES
4D

Particular description of goods.—Shock Absorbers.
Claims use since June 1, 1923.

Ser. No. 182,485. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) REGAL RECORD COMPANY, New York, N. Y. Filed June 26, 1923.

LITTLE TOTS' NURSERY TUNES

No claim is made to the exclusive use of the words "Nursery Tunes" apart from the mark as shown on the drawing. The mark consists of the words "Little Tots Nursery Tunes."
Particular description of goods.—Phonograph Records.
Claims use since May 25, 1923.

Ser. No. 182,519. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NELSON MEAT COMPANY, San Francisco, Calif. Filed June 27, 1923.

NELSON'S

Particular description of goods.—Bacon, Hams, Lard, Sausage.
Claims use since Aug. 29, 1921.

Ser. No. 182,543. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KELLOGG'S PEP & ZEP PRODUCTS, INC., New York, N. Y. Filed June 28, 1923.

ZEP

Particular description of goods.—Cereal Breakfast Food.
Claims use since June 21, 1922.

Ser. No. 182,561. (CLASS 39. CLOTHING.) LESTER I. BROOKS, doing business as Betty Brooks Apron Co., Los Angeles, Calif. Filed June 29, 1923.

BETTY BROOKS BRAND

The word "Brand" is disclaimed apart from the mark shown in the drawing. The name "Betty Brooks" is merely fanciful and does not refer to any particular individual.
Particular description of goods.—Women's and Children's Aprons, Dresses, House Dresses, Porch Frocks, and Coats.
Claims use since August, 1921.

Ser. No. 182,709. (CLASS 39. CLOTHING.) A. B. KIRSCHBAUM COMPANY, Philadelphia, Pa. Filed July 2, 1923.

SOMERTEX

Particular description of goods.—Men's and Young Men's Outer Suits.
Claims use since June 21, 1923.

Ser. No. 182,796. (CLASS 39. CLOTHING.) HARVEY FROHLICHSTEIN, St. Louis, Mo. Filed July 5, 1923.

FROLICWEAR

The mark consists of the word "Frolicwear."
Particular description of goods.—Children's and Infants' Wearing Apparel—Namely, Hats, Caps, Bonnets, Dresses, Knit Underwear, Fabric Underwear, Leather Shoes, Rubber Shoes, Fabric Shoes, Combination of Leather and Rubber Shoes, Combination of Leather and Fabric Shoes, Combination of Rubber and Fabric Shoes, Capes, Sacks, Play Suits, Boudoir Caps, Knit Sweaters, and Knit Sweater Sets.
Claims use since June 24, 1922.

Ser. No. 182,917. (CLASS 27. HOROLOGICAL INSTRUMENTS.) WM. KAUFMANN, Geneva, Switzerland. Filed July 7, 1923.

THE WILKA WATCH.

Trade-mark "The Wilka Watch;" no claim made to the exclusive use of the word "Watch" apart from the mark as shown in the drawing.
Particular description of goods.—Watches and Parts Thereof.
Claims use since about Sept. 25, 1905.

Ser. No. 182,997. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER G. RODIGER, doing business as Cheeri-o Shoppe, Pasadena, Calif. Filed July 9, 1923.

Cheeri-o

Particular description of goods.—Candy.
Claims use since Apr. 16, 1923.

Ser. No. 183,013. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL VANDER WHEELEN, New York, N. Y. Filed July 9, 1923.

VANDERWHEELEN'S SEPTET

Particular description of goods.—Preparation for the Treatment of Rheumatism, Lumbago, Sciatica, Gout, Liver and Nervous Disorders, Neuralgia, Headaches, Constipation, Disorders of the Blood, Also for Use as a General Tonic or System Builder.
Claims use since Feb. 15, 1923.

Ser. No. 183,134. (CLASS 11. INKS AND INKING MATERIALS.) RICHARD E. BECKERT, doing business as S. M. Spencer Mfg. Co., Boston, Mass. Filed July 13, 1923.

FOUNTAIN



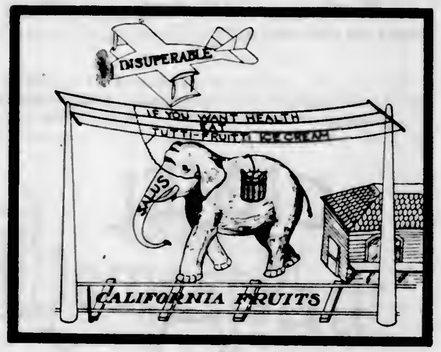
Particular description of goods.—Stencil Inks.
Claims use since Jan. 1, 1920.

Ser. No. 183,135. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IRVING BERKENFIELD, doing business as Field Laboratories, Erie, Pa. Filed July 13, 1923.

DAN-DEE

Particular description of goods.—Hair Tonic and Hair Restorer.
Claims use since October, 1920.

Ser. No. 183,170. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NICK F. SPINELLI, New York, N. Y. Filed July 13, 1923.



Nick F. Spinelli

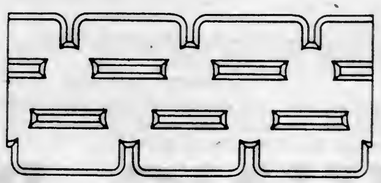
No claim is made to the words "Insuperable," "If you want health eat Tutti-Fruitti Ice Cream," "Salus," and "California Fruits" apart from the mark as shown.
Particular description of goods.—Fruit Ice Cream.
Claims use since May 15, 1923.

Ser. No. 183,368. (CLASS 39. CLOTHING.) FINCH, VAN SLYCK & MCCONVILLE, St. Paul, Minn. Filed July 18, 1923.

FINCH BIG FELLA

Particular description of goods.—Work Shirts.
Claims use since on or about Mar. 15, 1923.

Ser. No. 183,414. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) STERLING TIRE CORPORATION, Rutherford, N. J. Filed July 18, 1923.



Particular description of goods.—Tire Casings.
Claims use since May 11, 1921.

Ser. No. 183,538. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PANGBURN COMPANY, also doing business as Pangburn's, Fort Worth, Tex. Filed July 21, 1923.



Particular description of goods.—Candy.
Claims use since Jan. 1, 1923.

Ser. No. 183,626. (CLASS 39. CLOTHING.) HORHEIMER BROTHERS COMPANY, Norfolk, Va. Filed July 24, 1923.

TRU-SHAPE

Particular description of goods.—Shoes of Leather, Rubber, Canvas, or Any Combinations of Same.
Claims use since May 7, 1923.

Ser. No. 183,828. (CLASS 38. PRINTS AND PUBLICATIONS.) FORSTER MUSIC PUBLISHER, INC., Chicago, Ill. Filed July 30, 1923.



The lines upon the drawing are employed merely for the purpose of shading.

Particular description of goods.—Sheet Music.

Claims use since April, 1920.

Ser. No. 183,903. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BETTERTON-RUPERT COFFEE CO., Ashland, Ky. Filed Aug. 1, 1923.

KING B

Particular description of goods.—Coffee.

Claims use since January, 1917.

Ser. No. 183,923. (CLASS 32. FURNITURE AND UPHOLSTERY.) MAURICE GORDON, Baltimore, Md. Filed Aug. 1, 1923.



Applicant disclaims the words "Ideal and Best for a Good Night's Rest" apart from the mark shown. Applicant also disclaims the representation of a mattress.

Particular description of goods.—Mattresses, Pillows, and Box Springs.

Claims use since July 20, 1923.

Ser. No. 183,977. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) JOHNS-MANVILLE, INCORPORATED, New York, N. Y. Filed Aug. 2, 1923.

Kribble Kloth

Particular description of goods.—Cotton Cloth for Use as an Acoustical Membrane.

Claims use since May 4, 1923.

Ser. No. 183,992. (CLASS 39. CLOTHING.) RECREATION DISTRIBUTING CO., New York, N. Y. Filed Aug. 2, 1923.

Recreation

Particular description of goods.—Knitted Sport Coats.

Claims use since May 1, 1923.

Ser. No. 184,019. (CLASS 39. CLOTHING.) CHESTERFIELD SHIRT COMPANY, Louisville, Ky. Filed Aug. 3, 1923.

Chesterfield

Particular description of goods.—Men's and Boys' Dress Shirts and Men's Athletic Underwear of Textile Fabric.

Claims use since June 29, 1923.

Ser. No. 184,243. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THEODORE HERZOG, Los Angeles, Calif. Filed Aug. 9, 1923.

OTANG-O-WAX
PERFUMED
TRADE MARK

No claim is made to the words "Perfumed" and "Wax" or the words "Trade-Mark" apart from the mark as shown.

Particular description of goods.—Dance-Floor Dressing.

Claims use since May 1, 1921.

Ser. No. 184,343. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACOB MENDELL, doing business as J. Mendell Candy Co., Brooklyn, N. Y. Filed Aug. 11, 1923.

CAMEL



POP

Particular description of goods.—Candy.

Claims use since May, 1923.

Ser. No. 184,407. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GRAND UNION TEA CO., Brooklyn, N. Y. Filed Aug. 15, 1923.

GRAND UNION
SOAP CREAM

Applicant hereby disclaims the exclusive use of the words "Soap Cream" apart from the mark shown on the drawing.

Particular description of goods.—Soap Creams.

Claims use since about Sept. 1, 1921.

Ser. No. 184,560. (CLASS 38. PRINTS AND PUBLICATIONS.) THE NATIONAL SAVE THE SURFACE CAMPAIGN COMMITTEE, doing business as Save The Surface Campaign, Philadelphia, Pa. Filed Aug. 16, 1923.

SAVE THE SURFACE NEWS

Particular description of goods.—Paint and Varnish Monthly Publication.

Claims use since about June, 1922.

Ser. No. 184,588. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA LABORATORIES, INC., Los Angeles, Calif. Filed Aug. 17, 1923.

Olde Homestead

Particular description of goods.—Flavoring Extracts—Namely, Vanilla, Lemon, Almond, Banana, Peach, Cherry, Etc., Used as Flavoring for Foods.

Claims use since Nov. 20, 1922.

Ser. No. 184,633. (CLASS 39. CLOTHING.) THE BENDER COMPANY, Milwaukee, Wis. Filed Aug. 18, 1923.

UNION MADE
BENDER ALLS
LEADS 'EM ALL OVERALL

No claim made to the words "Union Made" nor to the words "Leads 'Em All Overall" apart from the mark as shown.

Particular description of goods.—Working Clothes for Men and Boys, Comprising Overalls—Namely, Jackets, Pants, Coats, Aprons, and One-Piece Outer Garments Made from Cotton Fabrics of All Kind and Such Other Fabrics Which are Used in the Making of Garments of This Nature.

Claims use since on or about Apr. 7, 1923.

Ser. No. 184,659. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DINGFELDER & BALISH, New York, N. Y. Filed Aug. 18, 1923.



RED BALL BRAND

No claim to exclusive use of the word "Brand" apart from the mark as shown in the drawing.

Particular description of goods.—Fresh Vegetables—Namely, Onions.

Claims use since July 2, 1923.

Ser. No. 184,777. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALBERT WIDDIS, doing business as Tawas Candy Company, Tawas City, Mich. Filed Aug. 20, 1923.

DOCTOR BRAN

Particular description of goods.—Candy.

Claims use since Aug. 16, 1923.

Ser. No. 184,881. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WHITE CITY CANDY MFG. CO., INC., New Haven, Conn. Filed Aug. 22, 1923.

WHISTLE POP

No claim is made to the word "Pop" apart from the mark shown.

Particular description of goods.—Candy.

Claims use since Apr. 4, 1922.

Ser. No. 184,923. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNION GAS ENGINE CO., Oakland, Calif. Filed Aug. 23, 1923.

UNION

Particular description of goods.—Diesel Engines.

Claims use since May 25, 1923.

Ser. No. 184,944. (CLASS 12. CONSTRUCTION MATERIALS.) KEYSTONE REFRACTORIES COMPANY, Jersey City, N. J. Filed Aug. 24, 1923.

Crundumsand

"Crundumsand."

Particular description of goods.—Ganister.

Claims use since Apr. 13, 1922.

Ser. No. 184,977. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LISTERATED GUM CORPORATION, New York, N. Y. Filed Aug. 25, 1923.



No claim is made to the word "Gum" apart from the other features of the mark.

Particular description of goods.—Chewing Gum.

Claims use since Aug. 7, 1923.

Ser. No. 184,978. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LISTERATED GUM CORPORATION, New York, N. Y. Filed Aug. 25, 1923.



No claim made to the word "Gum" apart from the other features of the mark.

Particular description of goods.—Chewing Gum.

Claims use since Aug. 7, 1923.

Ser. No. 184,980. (CLASS 39. CLOTHING.) MILLER BROTHERS COMPANY, Chattanooga, Tenn. Filed Aug. 25, 1923.



No claim is made herein to the representation of a stocking apart from the mark as shown.

Particular description of goods.—Men's and Women's Hosiery.

Claims use since Aug. 18, 1923.

Ser. No. 185,017. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GREENEBAUM, WEIL & MICHELS, San Francisco, Calif. Filed Aug. 27, 1923. Under ten-year proviso.

CROWN



Particular description of goods.—Bed and Crib Blankets of Wool, Cotton, and Mixtures.

Claims use since 1871.

Ser. No. 185,068. (CLASS 25. LOCKS AND SAFES.) ARTHUR C. WHEELOCK, doing business as The Ventlock Company, Oakland, Calif. Filed Aug. 27, 1923.

VENTLOCK

Particular description of goods.—Window Fasteners.

Claims use since July, 1922.

Ser. No. 185,078. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF). WALTER W. EVERTS, New York, N. Y., assignor to Everts Angle Razor Corporation, New York, N. Y., a Corporation of Delaware. Filed Aug. 28, 1923.



No claim is made to the abbreviations "T. M. Reg. U. S. Pat. Off." and to the representation of the safety-razor blade apart from the mark shown in the drawing.

Particular description of goods.—Safety Razors, Safety-Razor Blades, and Parts Thereof.

Claims use since Aug. 28, 1923.

Ser. No. 185,102. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) BASTIAN-MORLEY CO., Laporte, Ind. Filed Aug. 29, 1923.

B-N HEAT RETAINING JACKET

No rights are asserted to the exclusive use of the words "Heat Retaining Jacket" apart from the trade-mark as shown in the drawing.

Particular description of goods.—Jackets for Water Heaters and Boilers to Conserve Heat.

Claims use since March, 1923.

Ser. No. 185,138. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) NATIONAL RENOVATING & SUPPLY CO., Kansas City, Mo. Filed Aug. 29, 1923.

PV

Particular description of goods.—Furniture and Automobile Polish.

Claims use since Aug. 1, 1918.

Ser. No. 185,140. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NATIONAL RENOVATING & SUPPLY CO., Kansas City, Mo. Filed Aug. 29, 1923.

VICTORY SCRUB

No claim is made to the word "Scrub" apart from the mark as shown in the drawing.

Particular description of goods.—Cleansing and Disinfectant Compounds for Floors.

Claims use since Aug. 1, 1918.

Ser. No. 185,146. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) RICHARD PAULUS, Freiburg, Germany. Filed Aug. 29, 1923.

Viol

Particular description of goods.—Preparation for Cleaning Stringed Instruments.

Claims use since August, 1921.

Ser. No. 185,181. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MARY HINTON, St. Louis, Mo. Filed Aug. 30, 1923.

"HY-EL-MA"

Particular description of goods.—Polish for Automobiles, Pianos, Furniture, and Woodwork.

Claims use since June 21, 1923.

Ser. No. 185,259. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VIOLA B. NORRIS, Montclair, N. J. Filed Sept. 1, 1923.

SUCRÈME

Particular description of goods.—Candy.

Claims use since July 23, 1923.

Ser. No. 185,275. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WHITING & DAVIS COMPANY, Plainville, Mass. Filed Sept. 1, 1923.

MESHBRITE

Particular description of goods.—Metal Plates for Use in Removing Foreign Matter from or in Cleansing Metal Ware

Claims use since June 1, 1923.

Ser. No. 185,285. (CLASS 11. INKS AND INKING MATERIALS.) H. BEHLEN & BRO., New York, N. Y. Filed Sept. 4, 1923.



No claim is made to the exclusive use of the words "Trade Mark" apart from the mark shown in the drawing.

Particular description of goods.—Ruling Colors, Edge Colors, Marbling Colors, and Marbling Sizes.

Claims use since about 1893.

Ser. No. 185,318. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE SNYDERIZE CO., Hanford, Calif. Filed Sept. 4, 1923.

Snyderize

Particular description of goods.—Preparation for Preserving, Softening, and Waterproofing Leather.

Claims use since June 25, 1923.

Ser. No. 185,322. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES E. STAVROS, West Orange, N. J. Filed Sept. 4, 1923.

NIOBE

Particular description of goods.—Medicine for Dissolving Gallstones.

Claims use since February, 1918.

Ser. No. 185,377. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) POND'S EXTRACT COMPANY, New York, N. Y. Filed Sept. 6, 1923.

C

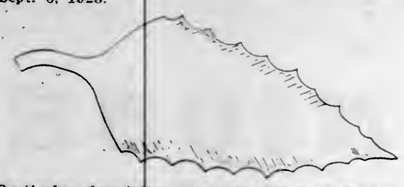
Particular description of goods.—Cold Cream.
Claims use since June, 1923.

Ser. No. 185,378. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) POND'S EXTRACT COMPANY, New York, N. Y. Filed Sept. 6, 1923.

V

Particular description of goods.—Vanishing Cream.
Claims use since June, 1923.

Ser. No. 185,391. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE T. G. WALTON COMPANY, doing business as The Erbjus Remedy Company, Bridgeport, Conn. Filed Sept. 6, 1923.



Particular description of goods.—Medical Tonics for Treatment of Stomach, Kidneys, Liver, and Bowels.
Claims use since on or about Nov. 15, 1918.

Ser. No. 185,392. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE T. G. WALTON COMPANY, doing business as The Erbjus Remedy Company, Bridgeport, Conn. Filed Sept. 6, 1923.

ERBJUS

Particular description of goods.—Medical Tonics for Treatment of Stomach, Kidneys, Liver, and Bowels.
Claims use since on or about Nov. 15, 1918.

Ser. No. 185,399. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL L. ALLEN, doing business as Phoenix Drug Store, Monroe, La. Filed Sept. 7, 1923.

PHOENIX



The words "Corn Remedy" are not claimed apart from the mark shown.
Particular description of goods.—Corn Remedy.
Claims use since 1912.

Ser. No. 185,410. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET J. CARMAN, Elkins Park, Pa. Filed Sept. 7, 1923.

BLÉ

Particular description of goods.—Face Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, Sachet Powders, and Talcum Powders.
Claims use since Aug. 27, 1923.

Ser. No. 185,413. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE L. D. CAULK COMPANY, Milford, Del. Filed Sept. 7, 1923.

MERCIREX

Particular description of goods.—Medicated Cream or Ointment for Use in the Treatment of Diseases and Disorders of the Skin and Scalp.
Claims use since Aug. 3, 1923.

Ser. No. 185,429. (CLASS 39. CLOTHING.) P. CENTEMERI & Co., New York, N. Y. Filed Sept. 7, 1923.

IRIS

Particular description of goods.—Leather and Fabric Gloves.
Claims use since Jan. 1, 1923.

Ser. No. 185,436. (CLASS 39. CLOTHING.) P. CENTEMERI & Co., New York, N. Y. Filed Sept. 7, 1923.

PEGGY

Particular description of goods.—Leather and Fabric Gloves.
Claims use since Jan. 1, 1923.

Ser. No. 185,447. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CENTRAL SCIENTIFIC COMPANY, Chicago, Ill. Filed Sept. 7, 1923.

CENCO

Particular description of goods.—Sulpho-Chromic Salts for Making Battery Fluids.
Claims use since May, 1915.

Ser. No. 185,457. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEO. H. GOULD & SON, Louisville, Ky. Filed Sept. 7, 1923.

BUZAWAY

Particular description of goods.—Perfume Suitable for Driving Off Mosquitoes or Similar Insects.
Claims use since July 18, 1919.

Ser. No. 185,459. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOUBIGANT, INC., New York, N. Y. Filed Sept. 7, 1923.

DOUCE ILLUSION

Particular description of goods.—Perfume, Toilet Water, Face Powder, Talcum Powder, Sachet, Brilliantine, Face Cream, Rouge, Lotion for the Skin and Hair, and Bath Salts.
Claims use since Aug. 28, 1923.

Ser. No. 185,460. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOUBIGANT, INC., New York, N. Y. Filed Sept. 7, 1923.

EN BUTINANT

Particular description of goods.—Perfume, Toilet Water, Face Powder, Talcum Powder, Sachet, Brilliantine, Face Cream, Rouge, Lotion for the Skin and Hair, and Bath Salts.
Claims use since Aug. 28, 1923.

Ser. No. 185,461. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOUBIGANT, INC., New York, N. Y. Filed Sept. 7, 1923.

FLATTERIE

Particular description of goods.—Perfume, Toilet Water, Face Powder, Talcum Powder, Sachet, Brilliantine, Face Cream, Rouge, Lotion for the Skin and Hair, and Bath Salts.
Claims use since Aug. 28, 1923.

Ser. No. 185,462. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOUBIGANT, INC., New York, N. Y. Filed Sept. 7, 1923.

LE CHAMP DES OISEAUX

Particular description of goods.—Perfume, Toilet Water, Face Powder, Talcum Powder, Sachet, Brilliantine, Face Cream, Rouge, Lotion for the Skin and Hair, and Bath Salts.
Claims use since Aug. 28, 1923.

Ser. No. 185,463. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOUBIGANT, INC., New York, N. Y. Filed Sept. 7, 1923.

MOULIN GALANT

Particular description of goods.—Perfume, Toilet Water, Face Powder, Talcum Powder, Sachet, Brilliantine, Face Cream, Rouge, Lotion for the Skin and Hair, and Bath Salts.
Claims use since Aug. 28, 1923.

Ser. No. 185,514. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPHINE B. FRAWLEY, doing business as Betsy Ross Candy Shops; Mres. Frawley's Betsy Ross Candy Shops, and Mrs. Frawley's, Indianapolis, Ind. Filed Sept. 8, 1923.



LAVENDER Sweets

Applicant disclaims the word "Sweets" apart from the mark as shown.

Particular description of goods.—Candy.
Claims use since Jan. 1, 1922.

Ser. No. 185,519. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HANCE BROTHERS & WHITE INCORPORATED, doing business as Marshall-King Laboratories, Philadelphia, Pa. Filed Sept. 8, 1923.

PAL-O-VIN

Particular description of goods.—Nutrient Tonic.
Claims use since Aug. 21, 1923.

Ser. No. 185,530. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MERLE LABORATORIES, Leeper, Pa. Filed Sept. 8, 1923.

D'AVIS

The portion "Avis" of the trade-mark is the first name of the wife of one of the firm.

Particular description of goods.—Face Powder, Talcum Powder, Cold Cream, Vanishing Cream, Massage Cream, Honey and Almond Cream.
Claims use since Aug. 20, 1923.

Ser. No. 185,556. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) S. W. BROWN CO., INC., Glendale, Calif. Filed Sept. 10, 1923.

COMALT

Particular description of goods.—Food Products—viz, Chocolate Malted Milk.
Claims use since July 2, 1923.

Ser. No. 185,562. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CAPITOL CHEMICAL CO., Montpelier, Vt. Filed Sept. 10, 1923.

MOREASE

Particular description of goods.—External Application for Asthma, Bronchitis, Coughs, Croup, Cold in the Head, Catarrh, Sore Throat, Chapped Hands, Frostbites, Burns, Bruises, Sunburn, and Insect Bites
Claims use since June 20, 1923.

Ser. No. 185,563. (CLASS 39. CLOTHING.) CARSON PIRIE SCOTT & CO., Chicago, Ill. Filed Sept. 10, 1923.

Eiffel

Particular description of goods.—Ladies' Silk Gloves.
Claims use since about 1919.

Ser. No. 185,565. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE L. D. CAULK COMPANY, Milford, Del. Filed Sept. 10, 1923.

MERCITAN

Particular description of goods.—Antiseptic and Germicidal Preparation for Use as a Mouth Wash, as a Gargle for the Throat, and for Application to the Nasal Passages.
Claims use since Dec. 8, 1921.

Ser. No. 185,573. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FARBENFABRIKEN VORM. FRIEDR. BAYER & CO., Leverkusen, near Cologne-on-the-Rhine, Germany. Filed Sept. 10, 1923.

Eldoform

Particular description of goods.—Remedy for Enteric Disturbances in Persons Suffering from Tuberculosis, Grippe, and Dysentery.
Claims use since about July, 1920.

Ser. No. 185,574. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FARBENFABRIKEN VORM. FRIEDR. BAYER & CO., Leverkusen, near Cologne-on-the-Rhine, Germany. Filed Sept. 10, 1923.

KRESIVAL

Particular description of goods.—Expectorant for the Treatment of Acute and Chronic Affections of the Lungs.
Claims use since about March, 1923.

Ser. No. 185,575. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FAXON & GALLAGHER DRUG CO., Kansas City, Mo. Filed Sept. 10, 1923.

ALCO-FAX

Particular description of goods.—Liniment for External Use.
Claims use since May 10, 1922.

Ser. No. 185,595. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) KALAMAZOO ICE & FUEL COMPANY, Kalamazoo, Mich. Filed Sept. 10, 1923.



Particular description of goods.—Coal.
Claims use since June 1, 1923.

Ser. No. 185,605. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MEDICO-DENTAL SPECIALTY CO., San Diego, Calif. Filed Sept. 10, 1923.

Pi-Rea-Rem

Particular description of goods.—Preparation for the Treatment of Pyorrhea Alveolaris.
Claims use since Aug. 20, 1923.

Ser. No. 185,621. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ROOSA & RATLIFF CHEMICAL CO., also doing business as Roosa & Ratliff Perfume Co., Cincinnati, Ohio. Filed Sept. 10, 1923.

Love's Dream

Particular description of goods.—Perfume, Cold Cream, Hair Oil, Shampoo, Toilet Water, Talcum Powder, and Toilet Cream.
Claims use since June, 1920.

Ser. No. 185,638. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VELSCH & HOLTZ, Paris, France. Filed Sept. 10, 1923.

LENTHÉRIC

Particular description of goods.—Perfumes, Toilet Waters, Eau de Cologne, Brilliantine, Rouge, Lotion for the Skin and Hair, Dye for the Hair.
Claims use since 1873.

Ser. No. 185,641. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELLIOTT C. WOODFORD, doing business as The Woodford Pharmacy, Owego, N. Y. Filed Sept. 10, 1923.

Rx 288

Particular description of goods.—Ointment for the Treatment of Colds, Bronchitis, Catarrh, Influenza, Sore Throat, and Pneumonia.
Claims use since May 1, 1922.

Ser. No. 185,643. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PHILLIPS & COMPANY, INC., doing business as Maine Seed Potato Growers, Boston, Mass. Filed Sept. 10, 1923.

WHEEL BRAND

No claim is made to the word "Brand" apart from the drawing.

Particular description of goods.—Table Potatoes in Their Natural State.

Claims use since Aug. 13, 1923.

Ser. No. 185,644. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PHILLIPS & COMPANY, INC., doing business as Maine Seed Potato Growers, Boston, Mass. Filed Sept. 10, 1923.



Particular description of goods.—Seed Potatoes in Their Natural State.

Claims use since Aug. 14, 1923.

Ser. No. 185,645. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PHILLIPS & COMPANY, INC., doing business as Maine Seed Potato Growers, Boston, Mass. Filed Sept. 10, 1923.

MOOSE

Particular description of goods.—Seed Potatoes in Their Natural State.

Claims use since Aug. 14, 1923.

Ser. No. 185,646. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PHILLIPS & COMPANY, INC., doing business as Maine Seed Potato Growers, Boston, Mass. Filed Sept. 10, 1923.



Particular description of goods.—Table Potatoes in Their Natural State.

Claims use since Aug. 13, 1923.

Ser. No. 185,652. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARBIDE & CARBON CHEMICALS CORPORATION, New York, N. Y. Filed Sept. 11, 1923.

Pyrofax

Particular description of goods.—Compressed Gas for Heating, Lighting, and Power Purposes.

Claims use since May 7, 1923.

Ser. No. 185,663. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LIBERTY LACE AND NETTING WORKS, New York, N. Y. Filed Sept. 11, 1923.



Particular description of goods.—Silk and Cotton Laces in the Piece, Nets and Nettings in the Piece, and Veils and Veilings in the Piece.

Claims use since Aug. 7, 1923.

Ser. No. 185,673. (CLASS 39. CLOTHING.) R & W HAT SHOP, INC., Norwalk, Conn. Filed Sept. 11, 1923.

PERSONALITY

Particular description of goods.—Clothing for Men, Women, and Children.

Claims use since February, 1923.

Ser. No. 185,688. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) GEORGE X WENDLING, Los Angeles, Calif. Filed Sept. 11, 1923.

WON'T SPLIT



No claim is made to the exclusive use of the words "Won't Split" apart from the mark shown in the drawing.

Particular description of goods.—Nails and Staples.

Claims use since Mar. 23, 1923.

Ser. No. 185,698. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GUY T. GIBSON, INCORPORATED, New York, N. Y. Filed Sept. 12, 1923.

DOUX
JASMIN

Particular description of goods.—Toilet Lotions, Powders, Creams, Waters, Sachets, Oils, Rouges, Pencils, Pastes, Salves, Perfumes, Depilatories, Aromatic Vinaigres, and Liquid Powders.

Claims use since about July 1, 1923.

Ser. No. 185,699. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GUY T. GIBSON, INCORPORATED, New York, N. Y. Filed Sept. 12, 1923.

AMBRE
DE
JADIS

Particular description of goods.—Toilet Lotions, Powders, Creams, Waters, Sachets, Oils, Rouges, Pencils, Pastes, Salves, Perfumes, Depilatories, Aromatic Vinaigres, and Liquid Powders.

Claims use since about July 1, 1923.

Ser. No. 185,709. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JEAN JORDEAU INC., South Orange, N. J., and New York, N. Y. Filed Sept. 12, 1923.

EPILATOR

Particular description of goods.—Depilatory.

Claims use since June 1, 1923.

Ser. No. 185,732. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) U. S. SANITARY SPECIALTIES CORPORATION, Chicago, Ill. Filed Sept. 12, 1923.

MOTHOBLOC

Particular description of goods.—Deodorant and Disinfectant.

Claims use since May 18, 1923.

Ser. No. 185,741. (CLASS 39. CLOTHING.) BONWIT TELLER & CO., New York, N. Y. Filed Sept. 13, 1923.

Beaulastique

Particular description of goods.—Corsets.

Claims use since Aug. 30, 1923.

Ser. No. 185,743. (CLASS 39. CLOTHING.) THE BOSS MANUFACTURING COMPANY, Kewanee, Ill. Filed Sept. 13, 1923.

Boss

ARMOURPLATE

Particular description of goods.—Gloves and Mittens.

Claims use since Aug. 27, 1923.

Ser. No. 185,748. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE EUROPEAN EXPORT CORPORATION, Washington, D. C. Filed Sept. 13, 1923.

ITALCO

Particular description of goods.—Olive Oil.

Claims use since Feb. 17, 1921.

Ser. No. 185,758. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LILLIAN MESTRE, New York, N. Y. Filed Sept. 13, 1923.

Q-K

Particular description of goods.—Compound for Cleansing and Polishing Woodwork, Furniture, and the Like.
Claims use since Sept. 2, 1923.

Ser. No. 185,767. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SUN ZONE COMPANY, Paris, Ky. Filed Sept. 13, 1923.

SUN-ZONE

Particular description of goods.—Liniment for External Use.
Claims use since 1911.

Ser. No. 185,785. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HIGHLAND HEREFORD BREEDER'S ASSOCIATION, Marfa, Tex. Filed Sept. 14, 1923.

HIGHLAND

Particular description of goods.—Live Calves and Yearlings.
Claims use since November, 1919.

Ser. No. 185,805. (CLASS 39. CLOTHING.) WEBER AND HEILBRONER, New York, N. Y. Filed Sept. 14, 1923.



Particular description of goods.—Men's Hats.
Claims use since Feb. 1, 1923.

Ser. No. 185,810. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRED BADEN, INC., New York, N. Y. Filed Sept. 15, 1923.

ALKANOS

Particular description of goods.—Nose Irrigation and Throat Gargle.
Claims use since Jan. 1, 1913.

Ser. No. 185,820. (CLASS 37. PAPER AND STATIONERY.) HENRY WATKINS ELLERSON, doing business as Atlantic Blotting Paper Mills Co., Richmond, Va. Filed Sept. 15, 1923.

NAVY

Particular description of goods.—Blotting Paper.
Claims use since 1907.

Ser. No. 185,846. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE SHIFFER PRODUCTS COMPANY, Cleveland, Ohio. Filed Sept. 15, 1923.

SHIFFER'S Luster-Lather AUTO SOAP

No claim is made to the exclusive use of the words "Auto Soap" apart from the mark as shown on the drawing.
Particular description of goods.—Automobile Soap.
Claims use since Aug. 2, 1923.

Ser. No. 185,853. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ACME WHITE LEAD & COLOR WORKS, Hamtramck, Mich. Filed Sept. 17, 1923.

TI KI

Particular description of goods.—Bronze Colors, Dry Colors, Striping Colors, Graining Colors, Ground Colors, Japan Colors, Colors in Oil, Color Varnish, Floor Dressing, Paint and Varnish Driers, Liquid Driers, Driers; Lacquer or Varnish Dressings for Leather, Rubber, or Cloth or for Compositions Used as Substitutes Therefor; Spirit Enamels, Paint Enamels, Varnish Enamels, Iron Fillers, Metal Fillers, Wood Fillers, Fillers for Preparing Surfaces for Painting, Enameling, and Varnishing; Flat or Gloss Finishes, Gold Size, Graining Compound, Graphite Compound, Lacquers, Metal Lacquers, Spirit Lacquers, Varnish Lacquers, Amyl-Acetate Lacquers, Dry Lead, Lead in Oil, Red Lead in Oil, Red Lead Dry, Red Lead, White Lead, White Lead in Oil, White Lead Dry, Litharge, Bronze Liquid, Ochers in Oil, Linseed Oil, Paint Oils, Lithographers' Oils, Reducing Oils; Rubbing, Polishing, and Finishing Oils; Venetian Oxide, Paints of All Kinds, Cold-Water Paint, Dry Paints, Paste Paints, Mixed Paints, Ready-Mixed Paints, Semipaste Paints, Tinted Paste, Pigments, Paint Pigments; Polishes for Varnished, Enameled, or Lacquered Surfaces; Primers, Paint Primers, Putty, Putty Compound, Paint and Varnish Removers, Enamel Reducers, Paint Reducers, Varnish Reducers, Rough Stuff, Size, Prepared Shellac, Shellac Substitute, Stains, Oil Stains, Spirit Stains, Water Stains, Varnish Stains, Wood Stains, Surfacers, Turpentine, Varnishes, Pigment Varnishes, Spirit Varnishes; Finishing, Preserving, and Coating Waxes; Zinc White, Zinc in Oil, and Whiting.
Claims use since Mar. 6, 1907.

Ser. No. 185,871. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE JACKSON-ROGERS COMPANY, Brooklyn, N. Y. Filed Sept. 17, 1923.

COQUINOL

Particular description of goods.—Shampoo for the Hair.
Claims use since Aug. 15, 1923.

Ser. No. 185,885. (CLASS 38. PRINTS AND PUBLICATIONS.) PLATT B. WALKER, doing business as Farm Implement Publishing Co., Minneapolis, Minn. Filed Sept. 17, 1923.

FARM IMPLEMENTS AND TRACTORS

"Farm Implements and Tractors."
Particular description of goods.—Publication.
Claims use since Sept. 20, 1918.

Ser. No. 185,903. (CLASS 38. PRINTS AND PUBLICATIONS.) THE NORFOLK POLICE SOCIAL AND RELIEF ASSOCIATION, Norfolk, Va. Filed Sept. 18, 1923.

THE VIGILANT

Particular description of goods.—Name of a Monthly Publication.
Claims use since Aug. 6, 1923.

Ser. No. 185,912. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAURICE BABANI, Paris, France. Filed Sept. 19, 1923.

SOUSOUKI

Particular description of goods.—Perfume Extracts, Lotions, Toilet Waters, Toilet Powders, Eau de Cologne, Dentifrices, Rouges, and Rice Powder.
Claims use since June 1, 1922.

Ser. No. 185,941. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VALECIA EVAPORATED MILK CO., Madison, Wis. Filed Sept. 19, 1923.

VAP

Particular description of goods.—Evaporated Skimmed Milk.
Claims use since July 8, 1923.

Ser. No. 185,961. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROGER DE SORIA, Clichy, France. Filed Sept. 20, 1923.

Elesbé

Particular description of goods.—Perfumes, Toilet Water, Face Powder, Talcum Powder, Brilliantine, and Face Cream.
Claims use since April, 1922.

Ser. No. 186,032. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) STANDARD SLIDE CORPORATION, New York, N. Y. Filed Sept. 21, 1923.

SLIDE-O-GRAF

Particular description of goods.—Automatic Changeable-Sign-Display Machines, and Sign Projectors.
Claims use since Jan. 10, 1923.

Ser. No. 186,035. (CLASS 15. OILS AND GREASES.) THE WARREN REFINING & CHEMICAL COMPANY, Cleveland, Ohio. Filed Sept. 21, 1923.

PURE PENNSYLVANIA MOTOR OIL

No claim is made to the exclusive use of the words "Pure Pennsylvania Motor Oil" apart from the mark as shown on the drawing.
Particular description of goods.—Lubricating Oils.
Claims use since Sept. 6, 1923.

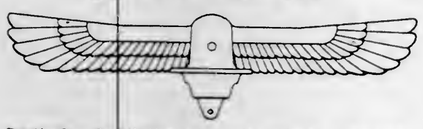
Ser. No. 186,039. (CLASS 38. PRINTS AND PUBLICATIONS.) SCIENCE SERVICE, INC., Washington, D. C. Filed Sept. 7, 1923.

WHY THE WEATHER?

Particular description of goods.—Title to Syndicated Scientific News Articles and Publications.
Claims use since Apr. 15, 1923.

Ser. No. 186,041. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) AEROBELLE COMPANY, Worcester, Mass. Filed Sept. 22, 1923.

AEROBELLE



Particular description of goods.—Shock Absorbers.
Claims use since Nov. 4, 1922.

Ser. No. 186,070. (CLASS 39. CLOTHING.) CHARLES H. PLUMBRIDGE, doing business as Mary Louise, New York, N. Y. Filed Sept. 22, 1923.

Mary Louise

Particular description of goods.—Women's and Misses' Dresses.
Claims use since Sept. 2, 1923.

Ser. No. 186,089. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STROHMEYER & ARPE COMPANY, also doing business as United Pure Food Co., New York, N. Y. Filed Sept. 22, 1923.

MAGABEI

Particular description of goods.—Salad Oils.
Claims use since May, 1923.

Ser. No. 186,100. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) EDWIN M. BLUMENTHAL, doing business as E. M. Blumenthal & Co., Chicago, Ill. Filed Sept. 24, 1923.

GOLD BOND

Particular description of goods.—Bottle Crowns.
Claims use since Jan. 1, 1923.

Ser. No. 186,110. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) E. DALTROFF & CIE., Paris, France. Filed Sept. 24, 1923.

BAIN de CHAMPAGNE

Particular description of goods.—Soaps, Soap Pastes, and Soap Powders.
Claims use since on or about Aug. 1, 1923.

Ser. No. 186,146. (CLASS 39. CLOTHING.) R. H. MACY & CO., INC., New York, N. Y. Filed Sept. 24, 1923.

VICEROY

Particular description of goods.—Men's and Young Men's Overcoats.
Claims use since Sept. 12, 1923.

Ser. No. 186,159. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROBINSON SILK COMPANY, INC., New York and Astoria, N. Y. Filed Sept. 24, 1923.

Talisman

"Talisman."
Particular description of goods.—Piece Goods Made of Silk.
Claims use since Aug. 15, 1923.

Ser. No. 186,161. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCOTT'S PREPARATIONS, INC., New York, N. Y. Filed Sept. 24, 1923.

Mineralava

Particular description of goods.—Beauty Clay, Face Finish, Face Powder, Cold Cream, and Vanishing Cream.
Claims use since Sept. 1, 1922.

Ser. No. 186,166. (CLASS 38. PRINTS AND PUBLICATIONS.) STREET & SMITH CORPORATION, New York, N. Y. Filed Sept. 24, 1923.

SPORT STORY

Particular description of goods.—Magazines Issued Twice Monthly.
Claims use since Sept. 8, 1923.

Ser. No. 186,188. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RICHARD HUDNUT, New York, N. Y. Filed Sept. 25, 1923.

SERENADE

Particular description of goods.—Sachet, Tooth Powder, Cold Cream, Tooth Paste, Bath Powder, Skin and Tissue Cream, Smelling Salts, Toilet Water, Almond Meal, Toilet Cerate, Vanishing Cream, Headache Cologne, Perfume, Face Powder, Bath Salts, Talcum, and Lip Rouge.
Claims use since Sept. 20, 1923.

Ser. No. 186,189. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RICHARD HUDNUT, New York, N. Y. Filed Sept. 25, 1923.

SILHOUETTE

Particular description of goods.—Sachet, Tooth Powder, Cold Cream, Tooth Paste, Bath Powder, Skin and Tissue Cream, Smelling Salts, Toilet Water, Almond Meal, Toilet Cerate, Vanishing Cream, Headache Cologne, Perfume, Face Powder, Bath Salts, Talcum, and Lip Rouge.
Claims use since Sept. 20, 1923.

Ser. No. 186,190. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RICHARD HUDNUT, New York, N. Y. Filed Sept. 25, 1923.

BARCAROLLE

Particular description of goods.—Sachet, Tooth Powder, Cold Cream, Tooth Paste, Bath Powder, Skin and Tissue Cream, Smelling Salts, Toilet Water, Almond Meal, Toilet Cerate, Vanishing Cream, Headache Cologne, Perfume, Face Powder, Bath Salts, Talcum, and Lip Rouge.
Claims use since Sept. 20, 1923.

Ser. No. 186,191. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RICHARD HUDNUT, New York, N. Y. Filed Sept. 25, 1923.

SPRING SONG

Particular description of goods.—Sachet, Tooth Powder, Cold Cream, Tooth Paste, Bath Powder, Skin and Tissue Cream, Smelling Salts, Toilet Water, Almond Meal, Toilet Cerate, Vanishing Cream, Headache Cologne, Perfume, Face Powder, Bath Salts, Talcum, and Lip Rouge.
Claims use since Sept. 20, 1923.

Ser. No. 186,214. (CLASS 38. PRINTS AND PUBLICATIONS.) BROWN, LOCKWOOD & DAVENPORT COMPANY, Boston, Mass. Filed Sept. 26, 1923.

The Shoe Style DIGEST

"The Shoe Digest."
Particular description of goods.—Monthly Publication.
Claims use since Jan. 8, 1923.

Ser. No. 186,217. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEON COHN, doing business as Parfumerie Forest, Paris, France. Filed Sept. 26, 1923.

KING TOT

Particular description of goods.—Perfumes, Toilet Waters, Face Creams, Face Powder, and Talcum Powder.
Claims use since Jan. 30, 1923.

Ser. No. 186,221. (CLASS 39. CLOTHING.) H L DISTILLATOR & SON INC., New York, N. Y. Filed Sept. 26, 1923.

OAK RIDGE

Particular description of goods.—Ladies' Hats.
Claims use since Jan. 14, 1923.

Ser. No. 186,231. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE A. HEUER, Bellaire, N. Y. Filed Sept. 26, 1923.

COPPERTEX

Particular description of goods.—Preservative for Pound and Trap Nets Used in Sea Water.
Claims use since about May 1, 1923.

Ser. No. 186,233. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) HOWARD IRON WORKS, Buffalo, N. Y. Filed Sept. 26, 1923. Under section 9 of the act of Mar. 19, 1920.

HOWARD

Particular description of goods.—Expansion Joints for Pipe Lines.
Claims use since Jan. 1, 1915.

Ser. No. 186,236. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD S. JOHNSON, Wellesley Hills, Mass. Filed Sept. 26, 1923.

PINE-KNOT

"Pine-Knot."
Particular description of goods.—Bath Salts.
Claims use since Aug. 21, 1923.

Ser. No. 186,243. (CLASS 38. PRINTS AND PUBLICATIONS.) EDGAR ALLAN MOSS, Marion, Ind. Filed Sept. 26, 1923.



Particular description of goods.—Newspaper Columns.
Claims use since Mar. 24, 1923.

Ser. No. 186,252. (CLASS 39. CLOTHING.) CHARLES C. SMITH, New York, N. Y. Filed Sept. 26, 1923.

"Camofly"

Particular description of goods.—Knitted Bathing Suits.
Claims use since July 1, 1923.

Ser. No. 186,259. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VIBRO-DENTAL PRODUCTS INCORPORATED, Philadelphia, Pa. Filed Sept. 26, 1923.



Particular description of goods.—Dental Cream.
Claims use since about September, 1921.

Ser. No. 186,264. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ANDRON HYGIENIC COMPANY, New York, N. Y. Filed Sept. 27, 1923.

LANOINATED

Particular description of goods.—Soap Cream to Produce Lather for Shaving.
Claims use since Sept. 4, 1923.

Ser. No. 186,265. (CLASS 4. ABRASIVE, DETERGENT AND POLISHING MATERIALS.) ANDRON HYGIENIC COMPANY, New York, N. Y. Filed Sept. 27, 1923.

Latherite

Particular description of goods.—Soap Cream to Produce Lather for Shaving.
Claims use since Sept. 4, 1923.

Ser. No. 186,266. (CLASS 37. PAPER AND STATIONERY.) AUTOGRAPHIC REGISTER COMPANY, Hoboken, N. J. Filed Sept. 27, 1923.

SHOUPALIGNER

Particular description of goods.—Autographic Registers and Parts Thereof.
Claims use since prior to July 1, 1915.

Ser. No. 186,278. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) KOKOMO AUTOMOTIVE MFG. CO., Kokomo, Ind. Filed Sept. 27, 1923.

EAGLE

Particular description of goods.—Automobile Rear-View Mirrors and Windshield Wings.
Claims use since Nov. 15, 1922.

Ser. No. 186,279. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) KOKOMO AUTOMOTIVE MFG. CO., Kokomo, Ind. Filed Sept. 27, 1923.

HOOSIER

Particular description of goods.—Automobile Rear-View Mirrors and Windshield Wings.
Claims use since Nov. 15, 1922.

Ser. No. 186,292. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE REMILLER CO., New York, N. Y. Filed Sept. 27, 1923.

INDELLO

Particular description of goods.—Lip Rouge.
Claims use since Sept. 18, 1923.

Ser. No. 186,305. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TRAVIS, ROMAINE & JELLE, INC., New York, N. Y. Filed Sept. 27, 1923.

Tashmoo Crepe

The word "Crepe" is disclaimed apart from the mark shown.
Particular description of goods.—Silk Crêpes in the Piece.
Claims use since July 15, 1923.

Ser. No. 186,329. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) PORZELLANFABRIK PH. ROSENTHAL & CO., A. G., Berlin, Germany. Filed Sept. 28, 1923.

Donatello

The mark consists of the word "Donatello."
Particular description of goods.—Crockery, Earthenware, and Porcelain.
Claims use since Aug. 13, 1920.

Ser. No. 186,344. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) J. R. WOOD & SONS, New York, N. Y. Filed Sept. 28, 1923.

PEACH BLOSSOM

Particular description of goods.—Finger Rings.
Claims use since Sept. 1, 1923.

Ser. No. 186,350. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) HARRY CAPPELLANTI, Morgantown, W. Va. Filed Sept. 29, 1923.



Particular description of goods.—Gas-Flow Alarms.
Claims use since Aug. 24, 1923.

Ser. No. 186,358. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY P. EASTON, Jr., doing business as Easton Odor-Lue Co., Denver, Colo. Filed Sept. 29, 1923.

ODOR-LUE CREAM

The word "Cream" is not claimed apart from other features of the mark.
Particular description of goods.—Odor-Preventing Preparation.
Claims use since Sept. 14, 1923.

Ser. No. 186,363. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE GLOBE SOAP COMPANY, Cincinnati, Ohio. Filed Sept. 29, 1923.



No claim is made for the exclusive use of the words "Olive" or "Complexion Soap" apart from the mark shown.
Particular description of goods.—Soap.
Claims use since April, 1923.

Ser. No. 186,376. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Sept. 29, 1923.

NADINE

Particular description of goods.—Worsted and Woolen Textile Fabrics.
Claims use since Mar. 1, 1922.

Ser. No. 186,377. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Sept. 29, 1923.

ELFINA

Particular description of goods.—Worsted and Woolen Textile Fabrics.
Claims use since Mar. 1, 1922.

Ser. No. 186,391. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PLOUGH CHEMICAL COMPANY, doing business as Mme. Ise'Bell's Toilet Mfg. Co., Memphis, Tenn. Filed Sept. 29, 1923.

MME. ISE'BELL'S

"Mme. Ise'Bell's."

Particular description of goods.—Toilet Preparations—Namely, Perfumes, Toilet Water, Sachet Powder, Talcum Powder, Perspiration Powder, Face Powder, Rouge, Cold Cream, Freckle Cream, Beauty Balm, Hand Whitener, Depilatory, Deodorant, Brilliantine, Eau de Quinine, Bath Salts, Hair Tonic, Camphor Ice, Camphotint, and Liquid Nail Bleach.

Claims use since 1882.

Ser. No. 186,406. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ATLANTIC MILLS, Stottville, N. Y. Filed Oct. 1, 1923.

DORUNA

Particular description of goods.—Woolen Piece Goods.

Claims use since April, 1923.

Ser. No. 186,435. (CLASS 37. PAPER AND STATIONERY.) MILTON BRADLEY COMPANY, Springfield, Mass. Filed Oct. 1, 1923.

SPECTRUM

Particular description of goods.—Crayons of Various Colors.

Claims use since April, 1915.

Ser. No. 186,437. (CLASS 37. PAPER AND STATIONERY.) MILTON BRADLEY COMPANY, Springfield, Mass. Filed Oct. 1, 1923.

Embeco

Particular description of goods.—Crayons of Various Colors.

Claims use since May, 1912.

Ser. No. 186,438. (CLASS 37. PAPER AND STATIONERY.) MILTON BRADLEY COMPANY, Springfield, Mass. Filed Oct. 1, 1923.

THE MANUAL ARTS

Particular description of goods.—Crayons of Various Colors.

Claims use since March, 1911.

Ser. No. 186,445. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) PHOENIX LEATHER GOODS CO., New York, N. Y. Filed Oct. 1, 1923.

PHOENIX TRADE-MARK LEATHER GOODS QUALITY ALLWAYS-NEW

No claim is made to the words "Trade-Mark of Quality," "Leather Goods," and "Always New" apart from the mark shown on the drawing.

Particular description of goods.—Leather Goods and Leather Novelties—Namely, Ladies' and Children's Hand Bags, Wallets, Purses, Pocketbooks.

Claims use since July 15, 1923.

Ser. No. 186,447. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SANDS & ROSS, INC., New York, N. Y. Filed Oct. 1, 1923.

"CSCO"

Particular description of goods.—Aniline Dye Soluble in Water Employed as Bluing.

Claims use since June 1, 1923.

Ser. No. 186,448. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SCHMIDT, FITZ-GIBBON CO., INC., New York, N. Y. Filed Oct. 1, 1923.

SANITARILY PACKED BON-TON TRADE MARK HANDKERCHIEFS

No claim is made to the words "Sanitarily Packed Handkerchiefs" and "Trade-Mark" apart from the mark shown.

Particular description of goods.—Men's, Women's, and Children's Handkerchiefs.

Claims use since Jan. 1, 1923.

Ser. No. 186,454. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) AMERICAN SKEIN & FOUNDRY COMPANY, Racine, Wis. Filed Oct. 2, 1923.

BADGER



Particular description of goods.—Piano Plates.

Claims use since previous to Aug. 1, 1913.

Ser. No. 186,461. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GEORGE BORGFELDT & Co., New York, N. Y. Filed Oct. 2, 1923.

CAMWUL

Particular description of goods.—Blankets and Rugs Made of Textile Fabrics.

Claims use since Apr. 7, 1923.

Ser. No. 186,462. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GEORGE BORGFELDT & Co., New York, N. Y. Filed Oct. 2, 1923.

CLAYMORE

Particular description of goods.—Blankets and Rugs Made of Textile Fabrics.

Claims use since Aug. 25, 1923.

Ser. No. 186,484. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ROSENBERG & CO., INC., New York, N. Y. Filed Oct. 2, 1923.

Embassy

Particular description of goods.—Pearls.

Claims use since Sept. 7, 1923.

Ser. No. 186,546. (CLASS 39. CLOTHING.) SIDNEY A. ELLENBOGEN, Paterson, N. J. Filed Oct. 4, 1923.

BALWEAVE

Particular description of goods.—Wearing Apparel—viz, Men's Dress Shirts, Underwear, Pyjamas, and Nightshirts Made from Textile Fabrics.

Claims use since Aug. 29, 1923.

Ser. No. 186,547. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Filed Oct. 4, 1923.

Plysette

Particular description of goods.—Silk Piece Goods.

Claims use since Sept. 24, 1923.

Ser. No. 186,554. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) A. & M. KARAGHEUSIAN, INC., New York, N. Y. Filed Oct. 4, 1923.

Gulistan

Particular description of goods.—Carpets and Textile Rugs.

Claims use since Sept. 25, 1923.

Ser. No. 186,555. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) A. & M. KARAGHEUSIAN, INC., New York, N. Y. Filed Oct. 4, 1923.

Hardistan

Particular description of goods.—Carpets and Textile Rugs.

Claims use since Sept. 26, 1923.

Ser. No. 186,603. (CLASS 38. PRINTS AND PUBLICATIONS.) R. T. MILLER Jr., Chicago, Ill. Filed Oct. 5, 1923.

ILLUSTRATED WORLD

Particular description of goods.—Monthly Magazine.

Claims use since Sept. 15, 1915.

Ser. No. 186,613. (CLASS 38. PRINTS AND PUBLICATIONS.) PRESS PUBLISHING COMPANY, New York, N. Y. Filed Oct. 5, 1923.

The First Reader

Particular description of goods.—Title of a Column of Original Literary Review, Criticism, or Comment Appearing in the World Newspaper.

Claims use since Aug. 27, 1923.

Ser. No. 186,616. (CLASS 39. CLOTHING.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Oct. 5, 1923.

Artona

Particular description of goods.—Women's, Children's, and Infants' Coats, Cloaks, Wraps, Capes, Suits, Costumes, Dresses, Waists, Skirts, and Hats.
Claims use since July 30, 1923.

Ser. No. 186,632. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE EATON AXLE & SPRING COMPANY, Cleveland, Ohio. Filed Oct. 6, 1923.

BUMPERETS

Particular description of goods.—Automobile Bumper.
Claims use since February, 1923.

Ser. No. 186,655. (CLASS 39. CLOTHING.) JAMES MCCURRACH & BROTHER, New York, N. Y. Filed Oct. 6, 1923.

Bull's Ear

Particular description of goods.—Neckties.
Claims use since July 20, 1923.

Ser. No. 186,664. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE OS-DA COMPANY, New York, N. Y. Filed Oct. 6, 1923.

DECLOTÉ

Particular description of goods.—Pearl or Imitation-Pearl Necklaces.
Claims use since about May 1, 1923.

Ser. No. 186,685. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ABRAHAM & STRAUS, INC., New York, N. Y. Filed Oct. 8, 1923.

Lyratone

Particular description of goods.—Phonographs.
Claims use since Oct. 1, 1923.

Ser. No. 186,710. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JANSEN & PRETZFELD, INC., New York, N. Y. Filed Oct. 8, 1923.

Repsicord

Particular description of goods.—Silks in the Piece.
Claims use since Sept. 29, 1923.

Ser. No. 186,748. (CLASS 39. CLOTHING.) MAX GOLDBERG & CO., INC., New York, N. Y. Filed Oct. 9, 1923.

BIG AMERICAN WORK SHIRT

No claim is made to the exclusive use of the words "Work Shirt" apart from the mark as shown in the drawing.
Particular description of goods.—Work Shirts.
Claims use since Sept. 18, 1923.

Ser. No. 186,768. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ARIZONA LACQUER MFG. CO., INC., Brooklyn, N. Y. Filed Oct. 10, 1923.

AROLAC

Particular description of goods.—Lacquers, Lacquer Enamels, Thinners, Lacquer Solvents, and Painters' Materials.
Claims use since Jan. 1, 1922.

Ser. No. 186,791. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) I. C. CANDY CO., Brooklyn, N. Y. Filed Oct. 10, 1923.

DRUM BEATERS

Particular description of goods.—Candies.
Claims use since June 20, 1923.

Ser. No. 186,796. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES MILLS ORCHARDS CORPORATION, Hamilton City, Calif. Filed Oct. 10, 1923.

MT. LASSEN

Particular description of goods.—Fresh Citrous Fruits—Namely, Oranges and Lemons; and Fresh Deciduous Fruits—Namely, Fresh Pears.
Claims use since November, 1919.

Ser. No. 186,797. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES MILLS ORCHARDS CORPORATION, Hamilton City, Calif. Filed Oct. 10, 1923.

WINDMILL

Particular description of goods.—Citrous Fruits—Namely, Oranges and Lemons in Their Natural State.
Claims use since November, 1919.

Ser. No. 186,804. (CLASS 39. CLOTHING.) ADOLF SCHRETER, Baltimore, Md. Filed Oct. 10, 1923.

"TUXBO"

Particular description of goods.—Neckties.
Claims use since on or about May 8, 1923.

Ser. No. 186,819. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) APPLETON COMPANY, Lowell, Mass. Filed Oct. 11, 1923.

Cyclone

"Cyclone."
Particular description of goods.—Cotton Piece Goods.
Claims use since Aug. 16, 1923.

Ser. No. 186,820. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) APPLETON COMPANY, Lowell, Mass. Filed Oct. 11, 1923.

Tornado

"Tornado."
Particular description of goods.—Cotton Piece Goods.
Claims use since Aug. 16, 1923.

Ser. No. 186,821. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) APPLETON COMPANY, Lowell, Mass. Filed Oct. 11, 1923.

Thunder

"Thunder."
Particular description of goods.—Cotton Piece Goods.
Claims use since Aug. 16, 1923.

Ser. No. 186,843. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) KATZ BROS. LEATHER GOODS CO., New York, N. Y. Filed Oct. 11, 1923.

PAC'ATSIN

Particular description of goods.—Traveling Bags, Suitcases, and Hatboxes.
Claims use since Oct. 1, 1923.

Ser. No. 186,847. (CLASS 38. PRINTS AND PUBLICATIONS.) MACFADDEN PUBLICATIONS, INC., New York, N. Y. Filed Oct. 11, 1923.

Dance Lovers

Particular description of goods.—Monthly Magazine.
Claims use since Oct. 1, 1923.

Ser. No. 186,860. (CLASS 15. OILS AND GREASES.) WADHAMS OIL COMPANY, Milwaukee, Wis. Filed Oct. 11, 1923.



The horizontal shade lines of the mark indicate blue color.
Particular description of goods.—A Lubricant for Pipe-Thread Connections.
Claims use since Oct. 6, 1923.

Ser. No. 186,899. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE JOS. GARNEAU CO., INC., New York, N. Y. Filed Oct. 12, 1923.

LADEE



Particular description of goods.—Canned Fish.
Claims use since Aug. 17, 1923.

Ser. No. 186,970. (CLASS 37. PAPER AND STATIONERY.) THE WABASH CABINET CO., Wabash, Ind. Filed Oct. 13, 1923.

Adaptex

Particular description of goods.—Vertical Filing Folders and Guides.
Claims use since Aug. 20, 1923.

Ser. No. 187,103. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) FOOT REMEDY COMPANY, Chicago, Ill. Filed Oct. 17, 1923.

FAIRY-FOOT

Particular description of goods.—Foot Appliances or Orthopedic Pads or Cushions Designed to Relieve and Correct Certain Imperfections and Deformities of the Feet.
Claims use since Mar. 8, 1923.

Ser. No. 187,122. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE PAGE ORGAN CO., Lima, Ohio. Filed Oct. 17, 1923.



Particular description of goods.—Organs and Attachments for Playing Organs.
Claims use since July, 1922.

Ser. No. 187,136. (CLASS 37. PAPER AND STATIONERY.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Oct. 17, 1923.

BIG BEN

Particular description of goods.—Fountain Pens.
Claims use since May 11, 1923.

Ser. No. 187,144. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) MONTGOMERY WARD & CO., Chicago, Ill. Filed Oct. 17, 1923.

LITTLE SETTING HEN

Particular description of goods.—Incubators and Brooders.
Claims use since Aug. 16, 1923.

Ser. No. 187,162. (CLASS 38. PRINTS AND PUBLICATIONS.) ILLUSTRATED DAILY NEWS PUBLISHING CO., INC., Los Angeles, Calif. Filed Oct. 18, 1923.

PHIL. M. OVERHEDD

Particular description of goods.—Title for Comic Newspaper Strip.
Claims use since Sept. 3, 1923.

Ser. No. 187,205. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) GEORGE H. DIAL, doing business as Dial Tent & Awning Co., Columbus, Ohio. Filed Oct. 19, 1923.

GYPSY

Particular description of goods.—Tents.
Claims use since Feb. 1, 1921.

Ser. No. 187,267. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE PULLMAN COMPANY, Chicago, Ill. Filed Oct. 20, 1923.



Particular description of goods.—Automobile Bodies.
Claims use since Oct. 9, 1923.

Ser. No. 187,286. (CLASS 37. PAPER AND STATIONERY.) BLAKE, MOFFITT & TOWNE, San Francisco, Calif. Filed Oct. 22, 1923.

GRIZZLY

Particular description of goods.—Wrapping Paper.
Claims use since January, 1917.

Ser. No. 187,292. (CLASS 37. PAPER AND STATIONERY.) BLAKE, MOFFITT & TOWNE, San Francisco, Calif. Filed Oct. 22, 1923.

MONARCH

Particular description of goods.—Greaseproof Paper.
Claims use since Sept. 1, 1923.

Ser. No. 187,306. (CLASS 38. PRINTS AND PUBLICATIONS.) FUNSTEN BROTHERS & COMPANY, St. Louis, Mo. Filed Oct. 22, 1923.



Particular description of goods.—Catalogues and Price Lists Published Periodically.
Claims use since Oct. 12, 1923.

Ser. No. 187,325. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) LUBBERS AND BELL MANUFACTURING COMPANY, Clinton, Iowa. Filed Oct. 22, 1923.

HAWKEYE

Particular description of goods.—Fly Swatters.
Claims use since Sept. 6, 1923.

Ser. No. 187,326. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) LUBBERS AND BELL MANUFACTURING COMPANY, Clinton, Iowa. Filed Oct. 22, 1923.

BLACKHAWK

Particular description of goods.—Fly Swatters.
Claims use since Sept. 6, 1923.

Ser. No. 187,372. (CLASS 38. PRINTS AND PUBLICATIONS.) BETTER TIMES, INC., New York, N. Y. Filed Oct. 23, 1923.

Money Raising
and
Administrative Methods

Particular description of goods.—Printed Periodical Published Bimonthly and at Other Intervals.
Claims use since about Oct. 1, 1923.

Ser. No. 187,599. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ADAMS & JEWELL, Rome, N. Y. Filed Oct. 29, 1923.

HICARB

Particular description of goods.—Refractory Paints.
Claims use since May 1, 1923.

Ser. No. 187,613. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE FIBERLOID CORPORATION, Indian Orchard, Mass. Filed Oct. 29, 1923.

FIBERLAC

Particular description of goods.—Cellulose Lacquer.
Claims use since Oct. 1, 1923.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

DECEMBER 11, 1923.

176,949. WATERPROOF DRESSING FOR LEATHER, SUBSTITUTE LEATHER, CLOTH, AND THE LIKE USED FOR AUTOMOBILE TOPS. JOHN METKE, doing business as Queen City Specialty Company, Buffalo, N. Y.
Filed February 18, 1922. Serial No. 159,521. PUBLISHED JULY 3, 1923.

176,950. DEODORANT. MARMOLA COMPANY, Detroit, Mich.
Filed April 5, 1923. Serial No. 178,621. PUBLISHED SEPTEMBER 18, 1923.

176,951. PREPARATION FOR PRESERVING AND MAKING FLEXIBLE CANVAS AND LEATHER BELTING. MAGIC LEATHER TREATMENT COMPANY, Detroit, Mich.
Filed January 29, 1923. Serial No. 175,257. PUBLISHED AUGUST 21, 1923.

176,952. CERTAIN NAMED FOOD PRODUCTS. HOME DAIRY COMPANY, Saginaw, Mich.
Filed May 6, 1921. Serial No. 147,288. PUBLISHED MARCH 14, 1922.

176,953. MEDICINE FOR WHOOPING COUGH, BRONCHITIS, TUBERCULOSIS, AND KINDRED AILMENTS. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed June 6, 1923. Serial No. 181,612. PUBLISHED SEPTEMBER 18, 1923.

176,954. LEATHER GLOVES. ELITE GLOVE CO., Gloversville, N. Y.
Filed March 9, 1923. Serial No. 177,172. PUBLISHED SEPTEMBER 11, 1923.

176,955. SELF-RISING WHEAT FLOUR. FORD FLOUR COMPANY, Wilmington, Del., and Nashville, Tenn.
Filed March 7, 1923. Serial No. 177,081. PUBLISHED SEPTEMBER 4, 1923.

176,956. CERTAIN NAMED METALS AND ALLOYS. ANACONDA COPPER MINING COMPANY, New York, N. Y.
Filed March 10, 1923. Serial No. 177,208. PUBLISHED SEPTEMBER 25, 1923.

176,957. HATS FOR WOMEN AND CHILDREN. ANNE LANFRANCHI, doing business as Rollee, New York, N. Y.
Filed March 12, 1923. Serial No. 177,305. PUBLISHED SEPTEMBER 11, 1923.

176,958. POULTRY FEED COMPRISING AN EGG MASH, STARTING MASH, GROWING MASH, AND SCRATCH GRAINS. WONDERLAY MILLING COMPANY, Indianapolis, Ind.
Filed March 12, 1923. Serial No. 177,343. PUBLISHED SEPTEMBER 25, 1923.

176,959. CONCENTRATED BUTTERMILK. CONSOLIDATED PRODUCTS CO., Chicago, Ill.
Filed March 13, 1923. Serial No. 177,364. PUBLISHED SEPTEMBER 18, 1923.

176,960. ANIMAL FEEDS—NAMELY, HORSE AND MULE FEED, POULTRY SCRATCH FEED, POULTRY BUTTERMILK LAYING MASH, ETC. THE LAKE SHORE ELEVATOR COMPANY, Cleveland, Ohio.
Filed March 16, 1923. Serial No. 177,562. PUBLISHED SEPTEMBER 18, 1923.

176,961. MINCEMEAT, PLUM PUDDING, AND FIG PUDDING. CHARLES A. RAUSCHER & CO., Los Angeles, Calif.
Filed March 17, 1923. Serial No. 177,622. PUBLISHED AUGUST 21, 1923.

176,962. FELT SLIPPERS. UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y.
Filed March 20, 1923. Serial No. 177,753. PUBLISHED SEPTEMBER 18, 1923.

176,963. COFFEE. WM. T. REYNOLDS & CO. INC., Poughkeepsie, N. Y.
Filed March 29, 1923. Serial No. 178,287. PUBLISHED SEPTEMBER 25, 1923.

176,964. FRESH CITROUS FRUITS. ARTHUR G. MADDOCK, Duarte, Calif.
Filed April 9, 1923. Serial No. 178,854. PUBLISHED SEPTEMBER 25, 1923.

176,965. WOMEN'S AND MISSES' SUITS AND DRESSES. M. KIRSCHNER & SONS, New York, N. Y.
Filed March 30, 1923. Serial No. 178,345. PUBLISHED JULY 10, 1923.

176,966. TABLE SIRUP. AVERY MERRILL STOUFFER, doing business as Stouffer Products Co., Chicago, Ill.
Filed March 29, 1923. Serial No. 178,300. PUBLISHED SEPTEMBER 25, 1923.

176,967. WHEAT FLOUR. BILL, BELL & CO., INCORPORATED, Ogdensburg, N. Y.
Filed April 16, 1923. Serial No. 179,178. PUBLISHED SEPTEMBER 25, 1923.

176,968. AIR-PRESSURE SYSTEMS FOR WASHING AUTOMOBILES OR OTHER VEHICLES AND CLEANING THE INTERIOR THEREOF AND PARTS OF SAID SYSTEMS. GATES AUTO LAUNDRY AND SUPPLY COMPANY, St. Louis, Mo.
Filed April 14, 1923. Serial No. 179,144. PUBLISHED SEPTEMBER 25, 1923.

176,969. RUBBER BOOTS AND SHOES, RUBBER OVERSHOES, AND RUBBER-SOLED CANVAS SHOES. HOOD RUBBER COMPANY, Watertown, Mass.
Filed April 12, 1923. Serial No. 179,040. PUBLISHED SEPTEMBER 11, 1923.

176,970. LEATHER, CANVAS, AND CLOTH SHOES. BROWN SHOE COMPANY, INC., St. Louis, Mo.
Filed April 16, 1923. Serial No. 179,180. PUBLISHED SEPTEMBER 11, 1923.

176,971. GARTERS. ABRAHAM M. MALOUF, New York, N. Y.
Filed April 24, 1923. Serial No. 179,618. PUBLISHED SEPTEMBER 11, 1923.

176,972. LADIES', MISSES', AND CHILDREN'S HATS AND CAPS. FASHION HAT COMPANY, New York, N. Y.
Filed April 18, 1923. Serial No. 179,299. PUBLISHED SEPTEMBER 11, 1923.

176,973. BRASSIÈRES AND GIRDLES. LA BELLE BRASSIERE CO. INC., New York, N. Y.
Filed April 16, 1923. Serial No. 179,209. PUBLISHED SEPTEMBER 11, 1923.

176,974. HAIR REMOVER. HUTCHINSON S. HINKLE, doing business as The Leclare Laboratories, New York, N. Y.
Filed May 2, 1923. Serial No. 180,066. PUBLISHED SEPTEMBER 11, 1923.

176,975. CERTAIN TOILET PREPARATIONS. LUDWIG SCHERK, Berlin, Germany.
Filed April 30, 1923. Serial No. 179,966. PUBLISHED SEPTEMBER 11, 1923.

176,976. WHEAT FLOUR. WILLIS NORTON & CO., North Topeka, Kans.
Filed April 30, 1923. Serial No. 179,949. PUBLISHED SEPTEMBER 18, 1923.

176,977. CANNED FISH, CANNED FRUITS, AND CANNED VEGETABLES. JOHN SCOTCHLER HUME, doing business as Del Norte Commercial Co., Seattle, Wash.
Filed April 30, 1923. Serial No. 179,941. PUBLISHED SEPTEMBER 25, 1923.

176,978. FRUIT PRESERVES. FORD & COMPANY, Brooklyn, N. Y.
Filed April 30, 1923. Serial No. 179,933. PUBLISHED SEPTEMBER 18, 1923.

176,979. CERTAIN TOILET PREPARATIONS. NATIONAL CHEMICAL CO., Chicago, Ill.
Filed April 27, 1923. Serial No. 179,815. PUBLISHED SEPTEMBER 11, 1923.

176,980. NERVE-TONIC MEDICINE. MACPHEE & COMPANY, INC., Philadelphia, Pa.
Filed April 27, 1923. Serial No. 179,806. PUBLISHED SEPTEMBER 11, 1923.

176,981. FOOT BALM. LOUIS HOFER, doing business as Foot Balm Company, Cincinnati, Ohio.
Filed April 27, 1923. Serial No. 179,793. PUBLISHED SEPTEMBER 11, 1923.

176,982. MEDICINAL PREPARATION FOR SKIN ERUPTIONS. KOHR MFG. CO., Middletown, Pa.
Filed April 26, 1923. Serial No. 179,732. PUBLISHED SEPTEMBER 18, 1923.

176,983. BEAUTY CLAY. WILLIAM B. CLEVES, doing business as Karmol Laboratory, Washington, D. C.
Filed April 25, 1923. Serial No. 179,655. PUBLISHED SEPTEMBER 11, 1923.

176,984. BATTERY SOLUTIONS. BLUE RIBBON BATTERY COMPANY, Indianapolis, Ind.
Filed April 25, 1923. Serial No. 179,651. PUBLISHED SEPTEMBER 18, 1923.

176,985. PREPARATION FOR HAY FEVER AND ROSE COLD. EDMUND M. KRAEMER, doing business as The E K Co., Philadelphia, Pa.
Filed April 24, 1923. Serial No. 179,606. PUBLISHED SEPTEMBER 18, 1923.

176,986. RUST REMOVER AND PREVENTIVE. W. WANDEL MFG. CO., INC., New Orleans, La.
Filed April 23, 1923. Serial No. 179,573. PUBLISHED SEPTEMBER 11, 1923.

176,987. COTTON LININGS IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed April 23, 1923. Serial No. 179,524. PUBLISHED SEPTEMBER 11, 1923.

176,988. CERTAIN TOILET PREPARATIONS. HERBERT CLYDE SCHAEFER, Denver, Colo.
Filed April 21, 1923. Serial No. 179,485. PUBLISHED SEPTEMBER 11, 1923.

176,989. FRESH CITROUS FRUITS. CHAS. C. OYLER & SON, doing business as The Eustis Packing Co., Cincinnati, Ohio, and Eustis, Fla.
Filed April 21, 1923. Serial No. 179,482. PUBLISHED SEPTEMBER 25, 1923.

176,990. STIMULATING TONIC FOR KIDNEY AND BLADDER DERANGEMENTS. JESSE N. GREENE, doing business as J. N. Greene Co., Norfolk, Va.
Filed April 21, 1923. Serial No. 179,467. PUBLISHED SEPTEMBER 11, 1923.

176,991. CERTAIN NAMED TOILET PREPARATIONS. DELICA LABORATORIES CO., Chicago, Ill.
Filed April 21, 1923. Serial No. 179,461. PUBLISHED SEPTEMBER 11, 1923.

176,992. PILE REMEDY. HARRY A. POND, Bay City, Mich.
Filed April 20, 1923. Serial No. 179,425. PUBLISHED SEPTEMBER 18, 1923.

176,993. LEATHER BOOTS, SHOES, AND SLIPPERS. W. H. MCELWAIN COMPANY, doing business as McElwain, Hutchinson & Winch, Boston, Mass.
Filed March 3, 1923. Serial No. 176,903. PUBLISHED SEPTEMBER 18, 1923.

176,994. MACARONI, SPAGHETTI, NOODLES, SHORT PASTE STUFF (FOODS MADE FROM DOUGH, SUCH AS MACARONI, SPAGHETTI, AND NOODLES), OLIVE OIL, AND TOMATO PASTE. LIBERTY MACARONI MANUFACTURING CO., St. Louis, Mo.
Filed February 28, 1923. Serial No. 176,745. PUBLISHED SEPTEMBER 25, 1923.

176,995. FOOD PRODUCT CONSISTING OF CORNBEEF HASH INCLOSED IN A BREAD CONTAINER. SCHOR & ROBERTS, San Francisco, Calif.
Filed February 27, 1923. Serial No. 176,695. PUBLISHED SEPTEMBER 25, 1923.

176,996. RICE. NORTH AMERICAN MERCANTILE CO., San Francisco, Calif.
Filed February 20, 1923. Serial No. 176,356. PUBLISHED AUGUST 21, 1923.

176,997. GLOVES. LILIENTHAL & GROSSMAN, INC., New York, N. Y.
Filed February 20, 1923. Serial No. 176,352. PUBLISHED AUGUST 28, 1923.

176,998. CANDY. CONSUMERS BISCUIT COMPANY, New Orleans, La.
Filed February 17, 1923. Serial No. 176,164. PUBLISHED SEPTEMBER 25, 1923.

176,999. TOASTED SPONGE CAKE OR SLIGHTLY-SWEETENED BREAD. TASTY BAKING COMPANY, Philadelphia, Pa.
Filed February 7, 1923. Serial No. 175,684. PUBLISHED AUGUST 21, 1923.

177,000. POULTRY AND STOCK FEED. THE NICKEL PLATE ELEVATOR COMPANY, Cleveland, Ohio.
Filed May 24, 1923. Serial No. 181,086. PUBLISHED SEPTEMBER 25, 1923.

177,001. WHEAT FLOUR. TEXAS STAR FLOUR MILLS, Galveston, Tex.
Filed May 14, 1923. Serial No. 180,631. PUBLISHED SEPTEMBER 25, 1923.

177,002. LADIES' TRIMMED HATS. HENRY SIEGEL, New York, N. Y.
Filed May 9, 1923. Serial No. 180,399. PUBLISHED SEPTEMBER 11, 1923.

177,003. SEMOLINA. STAR & CRESCENT MILLING CO., Minneapolis, Minn.
Filed May 7, 1923. Serial No. 180,308. PUBLISHED SEPTEMBER 25, 1923.

177,004. CRACKED SERIAL FOOD MADE FROM WHEAT. CHARLES O. SANDEFUR, doing business as Sandefur's Cereal Mill, Owensboro, Ky., assignor to Anglo-American Mill Company, Owensboro, Ky., a Corporation of Delaware.
Filed May 7, 1923. Serial No. 180,299. PUBLISHED SEPTEMBER 25, 1923.

177,005. CRACKED CEREAL FOOD MADE FROM CORN. CHARLES O. SANDEFUR, doing business as Sandefur's Cereal Mill, Owensboro, Ky., assignor to Anglo-American Mill Company, Owensboro, Ky., a Corporation of Delaware.
Filed May 7, 1923. Serial No. 180,298. PUBLISHED SEPTEMBER 25, 1923.

177,006. BRASSIÈRES. THE MODISHFORM BRASSIERE CO. INC., New York, N. Y.
Filed May 7, 1923. Serial No. 180,291. PUBLISHED SEPTEMBER 11, 1923.

177,007. LOCKS AND SAFES. STEELCRAFT CORPORATION OF AMERICA, Cleveland, Ohio.
Filed April 28, 1923. Serial No. 179,889. PUBLISHED SEPTEMBER 25, 1923.

177,008. HOSIERY, UNDERWEAR OF KNITTED AND TEXTILE FABRICS, AND DRESS, NEGLIGEE, AND WORK SHIRTS. WILLIAMS-RICHARDSON COMPANY, LTD., New Orleans, La.
Filed June 30, 1921. Serial No. 149,881. PUBLISHED AUGUST 7, 1923.

177,009. MEN'S, YOUNG MEN'S, AND BOY'S CLOTHING AND HABERDASHERY. JOSEPH HILTON, New York, N. Y.
Filed September 20, 1921. Serial No. 153,507. PUBLISHED JUNE 26, 1923.

177,010. LIVE AND DRESSED POULTRY, BUTTER, AND EGGS. HARRY SNYDER, doing business as Harry Snyder & Company, Chicago, Ill.
Filed February 20, 1922. Serial No. 159,625. PUBLISHED SEPTEMBER 18, 1923.

177,011. CERTAIN NAMED FOODS. NAAMLOOZE VENNOOTSCHAP INDUSTRIEELE MAATSCHAPPIJ V/H NOURY VAN DER LANDE, Deventer, Netherlands.
Filed January 12, 1922. Serial No. 157,846. PUBLISHED SEPTEMBER 25, 1923.

177,012. CRANES. COLBY STEEL AND ENGINEERING CO., Seattle, Wash.
Filed January 11, 1922. Serial No. 157,759. PUBLISHED SEPTEMBER 25, 1923.

177,013. DRESSES, COATS, AND SUITS FOR GIRLS AND WOMEN. SCHROEDER & WORTH, New York, N. Y.
Filed February 23, 1922. Serial No. 159,820. PUBLISHED SEPTEMBER 18, 1923.

177,014. WELDING WIRE AND WELDING RODS. "WELDRITE" COMPANY, INCORPORATED, Long Island City, N. Y.
Filed April 18, 1922. Serial No. 162,524. PUBLISHED SEPTEMBER 25, 1923.

177,015. CERTAIN NAMED HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES. MANNESMANNRÖHREN-WERKE, Dusseldorf, Germany.
Filed May 11, 1922. Serial No. 163,689. PUBLISHED SEPTEMBER 25, 1923.

177,016. WHEAT FLOUR, PANCAKE FLOUR, FLOUR FOR MAKING PASTRIES AND MUFFINS, AND BREAD, CAKES, AND PASTRIES. THE MALTANA COMPANY, Welland, Ontario, Canada.
Filed May 22, 1922. Serial No. 164,253. PUBLISHED SEPTEMBER 25, 1923.

177,017. RUBBER HEELS FOR SHOES. BERNARD R. BARVA, Fort Wayne, Ind.
Filed May 27, 1922. Serial No. 164,578. PUBLISHED SEPTEMBER 18, 1923.

177,018. CANTALOUPES IN THEIR NATURAL STATE, FRESH CITROUS FRUITS, FRESH DECIDUOUS FRUITS, FRESH GRAPES, AND FRESH VEGETABLES. IMPERIAL DISTRIBUTING CO., Los Angeles, Calif.
Filed June 3, 1922. Serial No. 164,916. PUBLISHED SEPTEMBER 25, 1923.

177,019. CANNED FRUITS AND DRIED FRUITS. UNITED STATES PRODUCTS CORPORATION, San Francisco, Calif.
Filed June 30, 1922. Serial No. 166,331. PUBLISHED SEPTEMBER 25, 1923.

177,020. CERTAIN NAMED CANNED FOODS. WINSTON, HARPER, FISHER COMPANY, Minneapolis, Minn.
Filed June 26, 1922. Serial No. 166,120. PUBLISHED AUGUST 7, 1923.

177,021. COCOA BEANS, COCOA BUTTER, COFFEES, SPICES, AND DESICCATED COCONUT. DAARNHOUWER & CO., INC., New York, N. Y.
Filed June 14, 1922. Serial No. 165,487. PUBLISHED SEPTEMBER 25, 1923.

177,022. STOCK AND POULTRY FOODS. THE UBIKO MILLING COMPANY, Cincinnati, Ohio.
Filed June 22, 1922. Serial No. 165,902. PUBLISHED AUGUST 7, 1923.

177,023. LIVE POULTRY AND EGGS. JOSEPH W. PARKS, doing business as Wopsy Poultry Yards, Altoona, Pa.
Filed June 26, 1922. Serial No. 166,092. PUBLISHED SEPTEMBER 25, 1923.

177,024. CHILDREN'S SUITS, WASH SUITS, AND PLAY SUITS. YOUNGFOLKS M'F'G. CO., New York, N. Y.
Filed May 25, 1922. Serial No. 164,528. PUBLISHED JUNE 19, 1923.

177,025. VINEGARS. DUFFY-MOTT COMPANY, INC., New York, N. Y.
Filed June 6, 1922. Serial No. 165,068. PUBLISHED SEPTEMBER 25, 1923.

177,026. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. H. JEVNE CO., Los Angeles, Calif.
Filed April 22, 1922. Serial No. 162,746. PUBLISHED SEPTEMBER 18, 1923.

177,027. SPICES, COFFEE, FOOD FLAVORINGS, AND FLAVORING EXTRACTS FOR FOOD. KAUPKE COFFEE COMPANY, Cedar Rapids, Iowa.
Filed May 4, 1922. Serial No. 163,337. PUBLISHED SEPTEMBER 25, 1923.

177,028. COMBINATION OF HEALING AND MEDICINAL OILS AND ANTISEPTICS. HARRISON D. STERRICK, doing business as Crystal Chemical Company, Pittsburgh, Pa.
Filed May 4, 1922. Serial No. 163,356. PUBLISHED SEPTEMBER 18, 1923.

177,029. LINIMENT. CAPITOL SALES COMPANY, Memphis, Tenn.
Filed May 8, 1922. Serial No. 163,500. PUBLISHED FEBRUARY 20, 1923.

177,030. EDIBLE CUPS CAPABLE OF RETAINING LIQUIDS. THE KRACKER-KUP COMPANY, INC., New York, N. Y.
Filed May 15, 1922. Serial No. 163,882. PUBLISHED MARCH 6, 1923.

177,031. TABLE KNIVES, FORKS, SPOONS OF BASE METAL, BUTCHERS' KNIVES, BREAD KNIVES, VEGETABLE KNIVES, POCKETKNIVES, RAZORS, AND SCISSORS. CARL WÜSTHOF, STAHLWARENFABRIK, Solingen, Germany.
Filed April 20, 1922. Serial No. 162,707. PUBLISHED SEPTEMBER 25, 1923.

177,032. STARCH SOLVENTS FOR USE IN WASHING CLOTHES, CLOTHS, FABRICS, AND LINENS. TAKAMINE LABORATORY, INC., Clifton, N. J., and New York, N. Y.
Filed March 25, 1922. Serial No. 161,285. PUBLISHED SEPTEMBER 18, 1923.

177,033. ICE CREAM. CARL A. HAY, doing business as The Newton Ice Cream Company, Newton, Kans.
Filed March 20, 1922. Serial No. 160,938. PUBLISHED SEPTEMBER 18, 1923.

177,034. CANNED SHRIMP. WILLIAM ADAM GENANT, Syracuse, N. Y.
Filed March 9, 1922. Serial No. 160,409. PUBLISHED SEPTEMBER 25, 1923.

177,035. CONFECTIONERY—NAMELY, CHOCOLATES. BUNTE BROTHERS, Chicago, Ill.
Filed March 9, 1922. Serial No. 160,385. PUBLISHED SEPTEMBER 25, 1923.

177,036. WHEAT FLOUR. CANNON VALLEY MILLING COMPANY, Minneapolis, Minn.
Filed February 10, 1922. Serial No. 159,142. PUBLISHED MARCH 20, 1923.

177,037. MERCERIZED AND PLAIN COTTON THREAD. AARON J. ROTHSTEIN, doing business as Triangle Thread Mills, New York, N. Y.
Filed January 25, 1922. Serial No. 158,444. PUBLISHED OCTOBER 10, 1922.

177,038. WHEAT FLOUR, RYE FLOUR, CORN MEAL, AND BREAD. NATURE'S OWN FOOD CO., Madison, Wis.
Filed January 18, 1922. Serial No. 158,090. PUBLISHED SEPTEMBER 25, 1923.

177,039. SOUPS, AND PREPARATIONS FOR MAKING SOUPS. OXO, LIMITED, London, England.
Filed January 13, 1922. Serial No. 157,898. PUBLISHED SEPTEMBER 25, 1923.

177,040. SALAD DRESSING, FILLING FOR SANDWICHES, AND FOR SEASONING OF FOOD. DELFINE PURE FOOD CO., Newark, N. J.
Filed April 24, 1923. Serial No. 179,588. PUBLISHED SEPTEMBER 11, 1923.

177,041. WATERMELONS IN THEIR NATURAL STATE, PICKLED, OR PRESERVED. WM. S. SWEET & SON, INC., Providence, R. I.
Filed May 12, 1923. Serial No. 180,563. PUBLISHED SEPTEMBER 25, 1923.

177,042. SPRAYING OIL. SUN OIL COMPANY, Philadelphia, Pa.
Filed May 12, 1923. Serial No. 180,562. PUBLISHED SEPTEMBER 18, 1923.

177,043. CANDY. WM. H. LUDEN INC., Reading, Pa.
Filed May 12, 1923. Serial No. 180,542. PUBLISHED SEPTEMBER 25, 1923.

177,044. CANNED FRUIT AND VEGETABLES, JAMS, JELLIES, FRUIT PRESERVES, AND MARMALADES. CALIFORNIA PRESERVING COMPANY, Los Angeles, Calif.
Filed May 12, 1923. Serial No. 180,518. PUBLISHED SEPTEMBER 25, 1923.

177,045. COFFEE SUBSTITUTE. JAMES VAN DYK CO., New York, N. Y.
Filed May 10, 1923. Serial No. 180,457. PUBLISHED SEPTEMBER 25, 1923.

177,046. WATERMELONS IN THEIR NATURAL STATE, PRESERVED, OR PICKLED. WM. S. SWEET & SON, INC., Providence, R. I.
Filed May 11, 1923. Serial No. 180,507. PUBLISHED SEPTEMBER 25, 1923.

177,047. MEDICINE FOR TUBERCULOSIS, COUGH, HOARSENESS, SHORT BREATH, BLOOD SPITTING, WEAK CHEST, SWEATING AT NIGHT, TIREDNESS, AND PROLONGATION OF LIFE. STEVE A. D. SZIBER, New York, N. Y.
Filed May 11, 1923. Serial No. 180,508. PUBLISHED SEPTEMBER 18, 1923.

177,048. LIQUID ADHESIVE TOILET POWDER. MARIE MARTHE RICHARD VVE. GRENOVILLE, doing business as Parfumerie Grenoville, Asnieres, France.
Filed May 9, 1923. Serial No. 180,370. PUBLISHED SEPTEMBER 18, 1923.

177,049. PURGATIVE TEA IN DRY FORM. ALBERT W. NIEDZIELSKI, Chicago, Ill.
Filed May 9, 1923. Serial No. 180,384. PUBLISHED SEPTEMBER 18, 1923.

177,050. FOOT POWDER. JOHN MISEWICZ, Charlerol, Pa.
Filed May 10, 1923. Serial No. 180,443. PUBLISHED SEPTEMBER 18, 1923.

177,051. WHEAT FLOUR. LOUISVILLE MILLING CO., Minneapolis, Minn.
Filed May 7, 1923. Serial No. 180,288. PUBLISHED SEPTEMBER 25, 1923.

177,052. WHEAT FLOUR. FRONTIER ELEVATOR & MILL CO., Buffalo, N. Y.
Filed May 7, 1923. Serial No. 180,276. PUBLISHED SEPTEMBER 25, 1923.

177,053. CANDY. HARRIS WOODSON CO. INC., also doing business as Enterprise Candy Company, Lynchburg, Va.
Filed May 5, 1923. Serial No. 180,216. PUBLISHED SEPTEMBER 25, 1923.

177,054. MEDICAL COMPOUND FOR TREATING CORNS. GEORGE A. BREON, doing business as Whinton Laboratories, Kansas City, Mo.
Filed May 4, 1923. Serial No. 180,167. PUBLISHED SEPTEMBER 11, 1923.

177,055. MEDICINES AND PHARMACEUTICAL PREPARATIONS FOR THE TREATMENT OF GAS IN THE STOMACH AND INTESTINAL FERMENTATION. MARTIN KAPLAN, Brooklyn, N. Y.
Filed May 3, 1923. Serial No. 180,125. PUBLISHED SEPTEMBER 18, 1923.

177,056. FOOD PRODUCTS—NAMELY, RUSK. HENRY DIEDERICH, Brooklyn and Valley Stream, N. Y.
Filed May 3, 1923. Serial No. 180,110. PUBLISHED SEPTEMBER 25, 1923.

177,057. CORN SALVE. M. M. WINCHELL CO., Pasadena, Calif.
Filed May 2, 1923. Serial No. 180,092. PUBLISHED SEPTEMBER 11, 1923.

177,058. COUGH MEDICINE. COUGH CHECKER COMPANY, Newburgh, N. Y.
Filed May 9, 1923. Serial No. 180,363. PUBLISHED SEPTEMBER 18, 1923.

177,059. PANCAKE FLOUR MADE FROM WHEAT. CHARLES O. SANDEFUR, doing business as Sandefur's Cereal Mill, Owensboro, Ky., assignor to Anglo-American Mill Company, Owensboro, Ky., a Corporation of Delaware.
Filed May 7, 1923. Serial No. 180,302. PUBLISHED SEPTEMBER 25, 1923.

177,060. WHEAT FLOUR. LOUISVILLE MILLING CO., Minneapolis, Minn.
Filed May 7, 1923. Serial No. 180,289. PUBLISHED SEPTEMBER 25, 1923.

177,061. BREAD, CAKE, AND A VITAMINE-CONTAINING PRODUCT USED AS AN INGREDIENT IN THE MANUFACTURE OF BREAD, CAKE, AND OTHER BAKERY, CEREAL, AND FOOD PRODUCTS. WARD BAKING COMPANY, New York, N. Y.
Filed August 12, 1922. Serial No. 168,183. PUBLISHED AUGUST 21, 1923.

177,062. LACES AND JACQUARD FIGURED UPHOLSTERY GOODS. ALB. & E. HENKELS, INC., New York, N. Y.
Filed September 8, 1922. Serial No. 169,211. PUBLISHED SEPTEMBER 11 1,923.

177,063. CERTAIN NAMED MEDICINAL PREPARATIONS. ISAAC J. EPSTEIN, San Francisco, Calif.
Filed January 18, 1923. Serial No. 174,729. PUBLISHED SEPTEMBER 11, 1923.

177,064. CANNED DECIDUOUS FRUITS, CANNED VEGETABLES, CANNED FRUIT SALAD, AND FRESH DECIDUOUS FRUITS. F. M. BALL & COMPANY, San Francisco, Calif.
Filed January 22, 1923. Serial No. 174,879. PUBLISHED SEPTEMBER 18, 1923.

177,065. STOCK FEEDS. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed January 22, 1923. Serial No. 174,917. PUBLISHED AUGUST 7, 1923.

177,066. FARINACEOUS STOCK FEEDS. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed January 22, 1923. Serial No. 174,918. PUBLISHED SEPTEMBER 4, 1923.

177,067. RUGS, CARPETS, AND OTHER TEXTILE FLOOR COVERINGS. THE MARS GRAND RUG CO., Pawtucket, R. I.
Filed July 18, 1923. Serial No. 183,390. PUBLISHED SEPTEMBER 18, 1923.

177,068. OILCLOTH. T. R. GOODLATTE & SONS, (INC.), Delawanna, Clifton, N. J.
Filed July 13, 1923. Serial No. 183,145. PUBLISHED SEPTEMBER 18, 1923.

177,069. COTTON PIECE GOODS. JOHN I. HART, doing business as Fourgees Cotton Mills, Manchester, England.
Filed July 23, 1923. Serial No. 183,570. PUBLISHED SEPTEMBER 11, 1923.

177,070. COTTON PIECE GOODS. JOHN I. HART, doing business as Fourgees Cotton Mills, Manchester, England.
Filed July 23, 1923. Serial No. 183,569. PUBLISHED SEPTEMBER 11, 1923.

177,071. HANDKERCHIEFS. HARRY CHARLES EICHHOLD, doing business as Eichhold & Company, New York, N. Y.
Filed July 19, 1923. Serial No. 183,446. PUBLISHED SEPTEMBER 18, 1923.

177,072. HANDKERCHIEFS. KAUFMANN MANDELL, Casa Grande, Ariz.
Filed July 23, 1923. Serial No. 183,580. PUBLISHED SEPTEMBER 18, 1923.

177,073. SILK, ARTIFICIAL-SILK, COTTON, LINEN, AND WOOLEN PIECE GOODS AND PIECE GOODS SIMULATING FUR. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed July 27, 1923. Serial No. 183,741. PUBLISHED SEPTEMBER 18, 1923.

177,074. SILK, ARTIFICIAL-SILK, COTTON, LINEN, AND WOOLEN PIECE GOODS. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed July 27, 1923. Serial No. 183,740. PUBLISHED SEPTEMBER 18, 1923.

177,075. SILK, ARTIFICIAL-SILK, COTTON, LINEN, AND WOOLEN PIECE GOODS. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed July 27, 1923. Serial No. 183,738. PUBLISHED SEPTEMBER 18, 1923.

177,076. COTTON PIECE GOODS. KELSEY TEXTILE CORPORATION, New York, N. Y.
Filed July 27, 1923. Serial No. 183,748. PUBLISHED SEPTEMBER 18, 1923.

177,077. COTTON PIECE GOODS. KELSEY TEXTILE CORPORATION, New York, N. Y.
Filed July 27, 1923. Serial No. 183,747. PUBLISHED SEPTEMBER 18, 1923.

177,078. SILK, ARTIFICIAL-SILK, COTTON, LINEN, AND WOOLEN PIECE GOODS. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed July 27, 1923. Serial No. 183,742. PUBLISHED SEPTEMBER 18, 1923.

177,079. COUGH SIRUP. ALBERS COMPANY, INCORPORATED, Richmond, Va.
Filed August 4, 1923. Serial No. 184,048. PUBLISHED SEPTEMBER 18, 1923.

177,080. COTTON PIECE GOODS. WILTON MANUFACTURING COMPANY, INC., New York, N. Y.
Filed July 27, 1923. Serial No. 183,786. PUBLISHED SEPTEMBER 18, 1923.

177,081. COTTON PIECE GOODS. KELSEY TEXTILE CORPORATION, New York, N. Y.
Filed July 27, 1923. Serial No. 183,749. PUBLISHED SEPTEMBER 18, 1923.

177,082. ACETYL-AMINO-OXY-PHENYL ARSENIC ACID. ETABLISSEMENTS POULENC FRÈRES, Paris, France.
Filed December 23, 1922. Serial No. 173,745. PUBLISHED SEPTEMBER 11, 1923.

177,083. CITROUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT IN THEIR NATURAL STATE. GOLD BUCKLE ASSOCIATION, East Highlands, Calif.
Filed December 21, 1922. Serial No. 173,636. PUBLISHED SEPTEMBER 11, 1923.

177,084. CITROUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT IN THEIR NATURAL STATE. GOLD BUCKLE ASSOCIATION, East Highlands, Calif.
Filed December 21, 1922. Serial No. 173,639. PUBLISHED SEPTEMBER 11, 1923.

177,085. CITROUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT IN THEIR NATURAL STATE. GOLD BUCKLE ASSOCIATION, East Highlands, Calif.
Filed December 21, 1922. Serial No. 173,640. PUBLISHED SEPTEMBER 11, 1923.

177,086. CITROUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT IN THEIR NATURAL STATE. GOLD BUCKLE ASSOCIATION, East Highlands, Calif.
Filed December 21, 1922. Serial No. 173,642. PUBLISHED SEPTEMBER 11, 1923.

177,087. CHEMICAL LIQUID FOR CERTAIN NAMED PURPOSES. STANDARD OIL COMPANY (INCORPORATED IN NEW JERSEY), Bayonne, N. J., assignor to Standard Development Company, New York, N. Y., a Corporation of Delaware.
Filed December 4, 1922. Serial No. 172,910. PUBLISHED MARCH 13, 1923.

177,088. LINIMENT. R. B. HEBERT AND SON, Geauga Lake, Ohio.
Filed December 18, 1922. Serial No. 173,493. PUBLISHED SEPTEMBER 18, 1923.

177,089. SUGAR-COATED PEANUTS. GEORGE J. BULUBASSIS, New York, N. Y.
Filed December 20, 1922. Serial No. 173,590. PUBLISHED SEPTEMBER 11, 1923.

177,090. DAIRY PRODUCTS AND FOOD PRODUCTS. JAMES VAN DYK CO., New York, N. Y.
Filed November 27, 1922. Serial No. 172,623. PUBLISHED SEPTEMBER 25, 1923.

177,091. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. MAC LEAN DRUG COMPANY, Chicago, Ill.
Filed December 2, 1922. Serial No. 172,845. PUBLISHED SEPTEMBER 18, 1923.

177,092. DYESTUFFS, DYESTUFF INTERMEDIATES, AND CERTAIN CHEMICALS. E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed December 4, 1922. Serial No. 172,869. PUBLISHED SEPTEMBER 11, 1923.

177,093. FRESH CRANBERRIES. GRAYLAND CRANBERRY GROWERS, Grayland, Wash.
Filed October 28, 1922. Serial No. 171,316. PUBLISHED SEPTEMBER 25, 1923.

177,094. DENTIFRICE. CHARLES C. CUMMINS, Columbus, Ohio.
Filed November 1, 1922. Serial No. 171,452. PUBLISHED SEPTEMBER 11, 1923.

177,095. MEN'S AND BOYS' KNITTED AND TEXTILE-FABRIC UNDERWEAR, FOOTWEAR CONSISTING OF LEATHER SHOES, NECKWEAR, AND DRESS AND NEGLIGEE SHIRTS. SAKS & COMPANY, New York, N. Y.
Filed November 23, 1922. Serial No. 172,444. PUBLISHED SEPTEMBER 11, 1923.

177,096. CANDY. THE BELLE MEAD SWEETSMAKERS, Trenton, N. J.
Filed October 25, 1922. Serial No. 171,148. PUBLISHED MARCH 27, 1923.

177,097. INTERNAL-COMBUSTION ENGINES FOR MARINE OR STATIONARY USE OR FOR POWER PURPOSES IN ANY COMBINATION, AND PUMPING OUTFITS. UNIVERSAL MOTOR COMPANY, Oshkosh, Wis.
Filed October 24, 1922. Serial No. 171,144. PUBLISHED SEPTEMBER 25, 1923.

177,098. CERTAIN NAMED FOODS. NORTHERN JOBBING COMPANY, Chicago, Ill.
Filed October 21, 1922. Serial No. 171,034. PUBLISHED SEPTEMBER 25, 1923.

177,099. CANDY. THE CATAWBA CANDY CO., Sandusky, Ohio.
Filed September 28, 1922. Serial No. 170,004. PUBLISHED MARCH 13, 1923.

177,100. ROLLED WHEAT AND A MIXTURE OF WHEAT AND BRAN FLOUR. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed October 2, 1922. Serial No. 170,215. PUBLISHED SEPTEMBER 25, 1923.

177,101. PLAIN DYED SILK GOODS IN THE PIECE. MOSS BROTHERS, New York, N. Y.
Filed October 7, 1922. Serial No. 170,444. PUBLISHED SEPTEMBER 18, 1923.

177,102. BACON. BARRINGTON PACKING CO., Barrington, Ill.
Filed August 28, 1922. Serial No. 168,749. PUBLISHED SEPTEMBER 25, 1923.

177,103. ROLLED WHEAT AND WHEAT AND BRAN FLOUR. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed October 2, 1922. Serial No. 170,214. PUBLISHED SEPTEMBER 18, 1923.

177,104. CANDIES, PASTRIES, BREADS, AND CAKES. ANNA PAULSON, New York, N. Y.
Filed October 10, 1922. Serial No. 170,538. PUBLISHED SEPTEMBER 18, 1923.

177,105. COFFEE, ROLLED OATS, COCOA, LEMON EXTRACT FOR FOOD PURPOSES, FRUITS PRESERVED IN SUGAR, AND CANNED FRUITS—NAMELY, CANNED PEACHES, CANNED APRICOTS, AND CANNED PINEAPPLE. CHURCH-VANCE GROCERY CO., Peru, Ind.
Filed December 7, 1922. Serial No. 173,033. PUBLISHED SEPTEMBER 18, 1923.

177,106. HOSIERY. NOTASEME HOSIERY CO., Philadelphia, Pa.
Filed December 8, 1922. Serial No. 173,104. PUBLISHED SEPTEMBER 25, 1923.

177,107. ROLLER BEARINGS. THE GILLIAM MANUFACTURING COMPANY, Canton, Ohio.
Filed December 21, 1922. Serial No. 173,633. PUBLISHED SEPTEMBER 25, 1923.

177,108. INFANTS' CAPS. BIRNBAUM, ROSENBLOOM & YELLEN, New York, N. Y.
Filed December 22, 1922. Serial No. 173,696. PUBLISHED SEPTEMBER 18, 1923.

177,109. CORSETS, BRASSIÈRES, AND UNDERWEAR OF TEXTILE FABRIC FOR WOMEN. KOPS BROS., New York, N. Y.
Filed January 6, 1923. Serial No. 174,248. PUBLISHED SEPTEMBER 18, 1923.

177,110. CORSETS, BRASSIÈRES, AND UNDERWEAR OF TEXTILE FABRIC FOR WOMEN. KOPS BROS., New York, N. Y.
Filed January 6, 1923. Serial No. 174,249. PUBLISHED SEPTEMBER 18, 1923.

177,111. CORSETS, BRASSIÈRES, AND WOMEN'S TEXTILE-FABRIC UNDERWEAR. KOPS BROS., New York, N. Y.
Filed January 6, 1923. Serial No. 174,250. PUBLISHED SEPTEMBER 18, 1923.

177,112. FOODS AND FOOD-FLAVORING EXTRACTS, CAKE ICING, PIE FILLING, SHREDDED COCONUT, SALAD-DRESSING POWDER, PUDDING THE MILLS BROTHERS COMPANY, doing business as The American Products Company, Cincinnati, Ohio.
Filed January 17, 1923. Serial No. 174,716. PUBLISHED SEPTEMBER 11, 1923.

177,113. WHEAT FLOUR. P. N. GRAY & COMPANY, INC., New York, N. Y.
Filed January 18, 1923. Serial No. 174,735. PUBLISHED SEPTEMBER 18, 1923.

177,114. WHEAT FLOUR. THE SOUTHWESTERN MILLING COMPANY INC., New York, N. Y.
Filed June 1, 1923. Serial No. 181,460. PUBLISHED SEPTEMBER 25, 1923.

177,115. WHEAT FLOUR. THE SOUTHWESTERN MILLING COMPANY INC., New York, N. Y.
Filed June 1, 1923. Serial No. 181,459. PUBLISHED SEPTEMBER 25, 1923.

177,116. WHEAT FLOUR. THE SOUTHWESTERN MILLING COMPANY INC., New York, N. Y.
Filed June 1, 1923. Serial No. 181,458. PUBLISHED SEPTEMBER 25, 1923.

177,117. FASTENING DEVICES FOR HOLDING CHAIR RUNGS AND OTHER PLUG MEMBERS IN THEIR SOCKETS. HERBERT L. FENNO, doing business as Holdems Company, Boston, Mass.
Filed June 1, 1923. Serial No. 181,440. PUBLISHED SEPTEMBER 25, 1923.

177,118. WORK CLOTHING—NAMELY, OVERALLS, COATS, WORK PANTS, AND WORK SHIRTS. JOEL ORVAL FLY, doing business as The Fly Manufacturing Co., Shelbyville, Tenn.
Filed May 31, 1923. Serial No. 181,389. PUBLISHED SEPTEMBER 11, 1923.

177,119. BREAD. DANIEL P. WOOLLEY, New York, N. Y.
Filed May 29, 1923. Serial No. 181,369. PUBLISHED SEPTEMBER 25, 1923.

177,120. BREAD. DANIEL P. WOOLLEY, New York, N. Y.
Filed May 29, 1923. Serial No. 181,367. PUBLISHED SEPTEMBER 25, 1923.

177,121. BREAD. DANIEL P. WOOLLEY, New York, N. Y.
Filed May 29, 1923. Serial No. 181,364. PUBLISHED SEPTEMBER 25, 1923.

177,122. BREAD. DANIEL P. WOOLLEY, New York, N. Y.
Filed May 29, 1923. Serial No. 181,363. PUBLISHED SEPTEMBER 25, 1923.

177,123. BREAD. DANIEL P. WOOLLEY, New York, N. Y.
Filed May 29, 1923. Serial No. 181,360. PUBLISHED SEPTEMBER 25, 1923.

177,124. PANCAKE FLOUR AND BUCKWHEAT FLOUR. HITE BROTHERS, Peru, Ind.
Filed May 29, 1923. Serial No. 181,342. PUBLISHED SEPTEMBER 25, 1923.

177,125. LEATHER GLOVES. CALIFORNIA GLOVE COMPANY, Napa, Calif.
Filed May 29, 1923. Serial No. 181,337. PUBLISHED SEPTEMBER 11, 1923.

177,126. RUBBER BELTING. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed February 18, 1918. Serial No. 109,059. PUBLISHED OCTOBER 7, 1919.

177,127. SOFT DRINK. MARGARET B. MCCARTHY, Chicago, Ill., assignor to Citrus Products Company, Chicago, Ill., a Corporation of Illinois.
Filed June 12, 1919. Serial No. 119,527. PUBLISHED MARCH 7, 1922.

177,128. BREAKFAST CEREALS. WALTON MILLING COMPANY, Lansing, Mich.
Filed January 17, 1921. Serial No. 142,369. PUBLISHED SEPTEMBER 25, 1923.

177,129. ANTISEPTIC MOUTH WASH. MAY OZILINE JACQUES, doing business as Pearldento Company, New York, N. Y.
Filed December 11, 1920. Serial No. 140,964. PUBLISHED JANUARY 3, 1922.

177,130. MEDICINAL BITTERS AND GENERAL TONIC. FELICE BISLERI & C., Milan, Italy, and New York, N. Y.
Filed December 9, 1920. Serial No. 140,825. PUBLISHED SEPTEMBER 18, 1923.

177,131. POCKET CIGARETTE-ROLLING MACHINES. EVANS CONCINNUM & METAL WORKS LTD., London, England.
Filed November 18, 1920. Serial No. 139,790. PUBLISHED JULY 4, 1922.

177,132. SOFT DRINK AND SIRUPS. HURTY-PECK & COMPANY, Indianapolis, Ind.
Filed April 8, 1921. Serial No. 145,896. PUBLISHED AUGUST 15, 1922.

177,133. HAIR TONIC. FRED. GOLDBERG, doing business as National Extract & Flavor Co., Hoboken, N. J.
Filed March 16, 1921. Serial No. 144,812. PUBLISHED SEPTEMBER 18, 1923.

177,134. HONEY. THE GRIGGS BROS. Co., Toledo, Ohio.
Filed June 27, 1921. Serial No. 149,696. PUBLISHED SEPTEMBER 26, 1922.

177,135. HONEY. THE GRIGGS BROS. Co., Toledo, Ohio.
Filed June 27, 1921. Serial No. 149,695. PUBLISHED SEPTEMBER 26, 1922.

177,136. HONEY. THE GRIGGS BROS. Co., Toledo, Ohio.
Filed June 27, 1921. Serial No. 149,694. PUBLISHED SEPTEMBER 26, 1922.

177,137. MILK, CREAM, BUTTER, CHEESE, AND ICE CREAM. H. P. HOOD & SONS, INC., Boston, Mass.
Filed April 15, 1921. Serial No. 146,215. PUBLISHED JUNE 6, 1922.

177,138. BUTTER, OLEOMARGARINE, EGGS IN THE SHELL, LARD; FRESH, COOKED, CURED, DRIED, SALTED, AND SMOKED MEATS, AND SAUSAGE. DUNLEVY PACKING COMPANY, Pittsburgh, Pa., assignor to Dunlevy-Franklin Company, a Corporation of Pennsylvania.
Filed July 31, 1921. Serial No. 150,310. PUBLISHED AUGUST 7, 1923.

177,139. HONEY. THE GRIGGS BROS. Co., Toledo, Ohio.
Filed June 27, 1921. Serial No. 149,697. PUBLISHED SEPTEMBER 26, 1922.

177,140. COCOA, SUGAR, CEREAL BREAKFAST FOOD, WHEAT FLOUR, AND CONDENSED MILK. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y.
Filed August 8, 1921. Serial No. 151,531. PUBLISHED DECEMBER 27, 1921.

177,141. DEHYDRATED FRUITS AND VEGETABLES. KING'S FOOD PRODUCTS COMPANY, Portland, Oreg.
Filed August 3, 1921. Serial No. 151,323. PUBLISHED MARCH 14, 1922.

177,142. RIBBONS IN THE PIECE. CORBETT BROS. Co., Paterson, N. J., and New York, N. Y.
Filed July 23, 1921. Serial No. 150,848. PUBLISHED DECEMBER 13, 1921.

177,143. BUTTER, OLEOMARGARINE, EGGS IN THE SHELL, LARD; FRESH, COOKED, CURED, DRIED, SALTED, SMOKED, AND PRESERVED BOVINE AND SWINISH MEATS AND MEAT PRODUCTS. DUNLEVY PACKING COMPANY, Pittsburgh, Pa., assignor to Dunlevy-Franklin Company, a Corporation of Pennsylvania.
Filed July 13, 1921. Serial No. 150,311. PUBLISHED SEPTEMBER 11, 1923.

177,144. SANDWICHLIKE PRODUCT. WALTER DEWITT KEMP, New York, N. Y.
Filed November 14, 1921. Serial No. 155,352. PUBLISHED SEPTEMBER 18, 1923.

177,145. PICKLES, VINEGAR, FRUIT JELLIES, FRUIT PRESERVES, MUSTARD, CATCHUP, CHILI SAUCE, MOLASSES, FRUIT BUTTER, AND FRUIT JAM. ROSCOE HAEGELIN Co., Santa Rosa, Calif.
Filed August 27, 1921. Serial No. 152,276. PUBLISHED NOVEMBER 22, 1921.

177,146. CERTAIN NAMED PIECE GOODS. THEO. TIEDEMANN & SONS, INC., New York, N. Y.
Filed August 12, 1921. Serial No. 151,725. PUBLISHED MARCH 6, 1923.

177,147. FRUITS, DECIDUOUS AND DRIED; AND NUTS, EDIBLE. EDWIN I. POWER, Solano, Calif.
Filed November 28, 1921. Serial No. 156,017. PUBLISHED SEPTEMBER 11, 1923.

177,148. FRESH GRAPES. CHAS. ANDERSON, Wasco, Calif.
Filed July 7, 1923. Serial No. 182,898. PUBLISHED SEPTEMBER 25, 1923.

177,149. SILKS IN THE PIECE. CHAS. A. STEVENS & BROS., Chicago, Ill.
Filed June 25, 1923. Serial No. 182,446. PUBLISHED SEPTEMBER 11, 1923.

177,150. SILKS AND LACES IN THE PIECE. CHAS. A. STEVENS & BROS., Chicago, Ill.
Filed June 25, 1923. Serial No. 182,447. PUBLISHED SEPTEMBER 11, 1923.

177,151. SILK FABRICS IN THE PIECE. SCHOONMAKER BROS. & COMPANY, INC., New York, N. Y.
Filed June 22, 1923. Serial No. 182,360. PUBLISHED SEPTEMBER 18, 1923.

177,152. SILK AND COTTON RIBBONS IN THE PIECE. OSCAR LION, doing business as Lion and Company, New York, N. Y.
Filed June 20, 1923. Serial No. 182,249. PUBLISHED SEPTEMBER 18, 1923.

177,153. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed June 20, 1923. Serial No. 182,256. PUBLISHED SEPTEMBER 18, 1923.

177,154. SHEETS AND PILLOWCASES. ABRAHAM & STRAUS, INC., New York, N. Y.
Filed June 21, 1923. Serial No. 182,279. PUBLISHED SEPTEMBER 18, 1923.

177,155. COFFEE. ABRAHAM & STRAUS, INC., New York, N. Y.
Filed June 21, 1923. Serial No. 182,281. PUBLISHED SEPTEMBER 25, 1923.

177,156. WOOLEN PIECE GOODS. E. J. WILE & Co., New York, N. Y.
Filed June 12, 1923. Serial No. 181,926. PUBLISHED SEPTEMBER 11, 1923.

177,157. CANDY. ZUCNUTKANDY COMPANY, Newark, N. J.
Filed June 13, 1923. Serial No. 181,969. PUBLISHED SEPTEMBER 25, 1923.

177,158. SAUSAGE, BREAKFAST BACON, BOLOGNA-STYLE SAUSAGE, FRANKFURTER-STYLE SAUSAGE, PURE LARD WITH BEEF FAT ADDED, LARD COMPOUND MADE FROM PURE LARD AND PURE BEEF FAT. THE E. KAHN'S SONS COMPANY, Cincinnati, Ohio.
Filed June 18, 1923. Serial No. 182,153. PUBLISHED SEPTEMBER 25, 1923.

177,159. EMULSION USED IN TREATING CONSTIPATION. NOLYEC LABORATORIES, Chicago, Ill.
Filed June 9, 1923. Serial No. 181,769. PUBLISHED SEPTEMBER 18, 1923.

177,160. CASTOR OIL. THE BARTLETT CORPORATION, Philadelphia, Pa.
Filed June 11, 1923. Serial No. 181,811. PUBLISHED SEPTEMBER 25, 1923.

177,161. MACARONI. FORTUNE PRODUCTS COMPANY, Chicago, Ill.
Filed June 12, 1923. Serial No. 181,884. PUBLISHED SEPTEMBER 25, 1923.

177,162. CANNED VEGETABLES. THE ILLINOIS CANNING COMPANY, Hoopeston, Ill.
Filed June 12, 1923. Serial No. 181,894. PUBLISHED SEPTEMBER 25, 1923.

177,163. CANNED CORN. THE ILLINOIS CANNING COMPANY, Hoopeston, Ill.
Filed June 12, 1923. Serial No. 181,895. PUBLISHED SEPTEMBER 25, 1923.

177,164. CHEMICAL COMPOUND USED AS A HYPNOTIC, ANALGESIC, AND SEDATIVE. ETABLISSEMENTS POULENC FRÈRES, Paris, France.
Filed December 23, 1922. Serial No. 173,757. PUBLISHED SEPTEMBER 18, 1923.

177,165. FOOD PRODUCTS—VIZ, ALIMENTARY PASTE, TOMATO CATCHUP, MUSTARD DRESSING, SALAD DRESSING, AND TOMATO SOUP. T. & C. CORPORATION, New York, N. Y.
Filed December 26, 1922. Serial No. 173,863. PUBLISHED AUGUST 7, 1923.

177,166. A CERTAIN NAMED MEDICINAL PREPARATION. NATIONAL RADIUM Co., Los Angeles, Calif.
Filed June 9, 1923. Serial No. 181,766. PUBLISHED SEPTEMBER 18, 1923.

177,167. EMULSION USED IN TREATING CONSTIPATION. NOLYEC LABORATORIES, Chicago, Ill.
Filed June 9, 1923. Serial No. 181,767. PUBLISHED SEPTEMBER 18, 1923.

177,168. PREPARATION FOR THE TREATMENT OF CORNS. MARIO THOMAS PERROTTI, doing business as Perrotti Drug Company, Providence, R. I.
Filed May 26, 1923. Serial No. 181,216. PUBLISHED SEPTEMBER 18, 1923.

177,169. CERTAIN TOILET PREPARATIONS. A. P. BABCOCK Co., New York, N. Y.
Filed May 28, 1923. Serial No. 181,237. PUBLISHED SEPTEMBER 18, 1923.

177,170. DRIED SHRIMP. BLUM & BERGERON, Houma, La.
Filed May 26, 1923. Serial No. 181,167. PUBLISHED SEPTEMBER 25, 1923.

177,171. SALVE FOR EXTERNAL APPLICATION IN THE TREATMENT OF INFECTIONS OF THE SKIN. S. W. HILL AND SONS, Morgantown, W. Va.
Filed May 25, 1923. Serial No. 181,119. PUBLISHED SEPTEMBER 18, 1923.

177,172. BLOOD, LIVER, AND SYSTEM TONIC. ROMEO GAFFNEY, Coffeyville, Kans.
Filed May 24, 1923. Serial No. 181,068. PUBLISHED SEPTEMBER 18, 1923.

177,173. CANNED FRUITS AND VEGETABLES. FREE & KLINCK, INC., Brooklyn, N. Y.
Filed May 23, 1923. Serial No. 181,019. PUBLISHED SEPTEMBER 25, 1923.

177,174. COFFEE. CAUCHOIS COFFEE COMPANY, New York, N. Y.
Filed May 23, 1923. Serial No. 181,011. PUBLISHED SEPTEMBER 25, 1923.

177,175. CERTAIN MEDICINAL PREPARATIONS. INDEPENDENT DRUG COMPANY, Jacksonville, Fla.
Filed May 19, 1923. Serial No. 180,865. PUBLISHED SEPTEMBER 11, 1923.

177,176. CANNED CHILI TOMATO SAUCE. COLONIAL PACKING Co., Los Angeles, Calif.
Filed May 22, 1923. Serial No. 180,965. PUBLISHED SEPTEMBER 25, 1923.

177,177. DEODORANT. T. KUSAKA, San Jose, Calif.
Filed May 22, 1923. Serial No. 180,981. PUBLISHED SEPTEMBER 18, 1923.

177,178. CERTAIN TOILET PREPARATIONS. VANITY FAIR COMPANY, Memphis, Tenn.
Filed May 22, 1923. Serial No. 180,991. PUBLISHED SEPTEMBER 18, 1923.

177,179. RUST REMOVER AND PICKLING COMPOUND FOR METALS. PETER A. FRASSE & Co., INC., New York, N. Y.
Filed May 19, 1923. Serial No. 180,853. PUBLISHED SEPTEMBER 11, 1923.

177,180. PREPARATION FOR USE AS A BREAKFAST CEREAL AND FOR USE IN THE PREPARATION OF COOKED FOODS. THOMPSON C. HOPPER, Gest, Ky.
Filed May 19, 1923. Serial No. 180,863. PUBLISHED SEPTEMBER 25, 1923.

177,181. HONEY. LONG ISLAND PACKING CO. INC., Brooklyn, N. Y.
Filed May 16, 1923. Serial No. 180,709. PUBLISHED SEPTEMBER 25, 1923.

177,182. CERTAIN NAMED MEDICINAL PREPARATIONS. ZINN CHEMICAL Co., Oakland, Calif.
Filed May 16, 1923. Serial No. 180,731. PUBLISHED SEPTEMBER 18, 1923.

177,183. MEDICINAL PREPARATION FOR CERTAIN NAMED PURPOSES. LINA S. GIBSON, doing business as Gibson Remedy Company, Fort Wayne, Ind.
Filed May 17, 1923. Serial No. 180,759. PUBLISHED SEPTEMBER 11, 1923.

177,184. CANNED SALMON. BANKERS DISCOUNT ASSOCIATION, Astoria, Oreg.
Filed May 19, 1923. Serial No. 180,830. PUBLISHED SEPTEMBER 25, 1923.

177,185. DYESTUFFS. C. H. A. SCHMITT COMPANY, INC., Boston, Mass.
Filed May 14, 1923. Serial No. 180,622. PUBLISHED SEPTEMBER 11, 1923.

177,186. CORE OIL. SMITH OIL & REFINING COMPANY, Rockford, Ill.
Filed May 14, 1923. Serial No. 180,626. PUBLISHED AUGUST 7, 1923.

177,187. ICE CREAM. BITTERSWEET PRODUCTS CORPORATION, Yonkers, N. Y.
Filed May 14, 1923. Serial No. 180,579. PUBLISHED SEPTEMBER 25, 1923.

177,188. POULTRY FEEDS. M. C. PETERS MILL Co., Omaha, Nebr.
Filed March 24, 1923. Serial No. 177,991. PUBLISHED AUGUST 21, 1923.

177,189. COTTONSEED OIL FOR COOKING, SALAD OILS, BUTTER OIL, COOKING OILS, EDIBLE PEANUT OIL, EDIBLE COCONUT OIL, SPECIAL HARDENED COCONUT OIL, OLEOMARGARINE, COOKING FATS. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed March 24, 1923. Serial No. 177,996. PUBLISHED SEPTEMBER 18, 1923.

177,190. UNWROUGHT AND PARTLY-WROUGHT METALS USED IN MANUFACTURE. THE MANGANESE BRONZE AND BRASS Co. LIMITED, Westminster, London, England.
Filed March 26, 1923. Serial No. 178,051. PUBLISHED SEPTEMBER 25, 1923.

177,191. HAIR GROWER. ADA MONTGOMERY, Kansas City, Mo.
Filed March 26, 1923. Serial No. 178,055. PUBLISHED SEPTEMBER 18, 1923.

177,192. CERTAIN NAMED MANICURING PREPARATIONS. LOUIS SINGER, doing business as L. S. Laboratories, New York, N. Y.
Filed March 29, 1923. Serial No. 178,290. PUBLISHED SEPTEMBER 11, 1923.

177,193. SOFT DRINKS AND MINERAL WATER. WAUKESHA SILURIAN WATER Co., also doing business as Waukesha Spring Water Company, Waukesha, Wis.
Filed March 29, 1923. Serial No. 178,316. PUBLISHED AUGUST 28, 1923.

177,194. BEAUTY CLAY, A COMPOSITION FOR TREATMENT OF THE SKIN. TERRA VITAE COMPANY, Chicago, Ill.
Filed March 31, 1923. Serial No. 178,416. PUBLISHED SEPTEMBER 11, 1923.

177,195. POULTRY FEEDS AND MASH. AMERICAN HOMINY COMPANY, Chicago, Ill.
Filed April 3, 1923. Serial No. 178,489. PUBLISHED SEPTEMBER 18, 1923.

177,196. ALIMENTARY PRODUCTS AND PASTES, SPAGHETTI, MACARONI, EGG NOODLES AND ELBOW. W. S. CREED, doing business as W. S. Creed Company, Roanoke, Va.
Filed April 3, 1923. Serial No. 178,494. PUBLISHED SEPTEMBER 25, 1923.

177,197. COFFEE. GEORGE C. BUELL & CO. INC., Rochester, N. Y.
Filed April 9, 1923. Serial No 178,817. PUBLISHED SEPTEMBER 11, 1923.

177,198. MAYONNAISE DRESSING, OLIVE MAYONNAISE, PEANUT BUTTER, OLIVE BUTTER, MUSTARD (PREPARED), COCOA, MINCEMEAT; PRESERVES—NAMELY, FRUITS AND VEGETABLES. CHAMPLAIN VALLEY FRUIT CO. INC., Burlington, Vt.
Filed April 7, 1923. Serial No. 178,713. PUBLISHED SEPTEMBER 25, 1923.

177,199. PROPRIETARY MEDICINES FOR THE TREATMENT OF INDIGESTION, SOUR STOMACH, CONSTIPATION, BILIOUSNESS, AND LOSS OF APPETITE. LOTTMAN MEDICINE COMPANY, Cairo, Ill.
Filed April 11, 1923. Serial No. 179,009. PUBLISHED SEPTEMBER 18, 1923.

177,200. DENATURED ALCOHOL. CHARLES E. ADAMSON, doing business as Safetygas & Appliance Company, Wabash, Ind.
Filed April 14, 1923. Serial No. 179,124. PUBLISHED SEPTEMBER 18, 1923.

177,201. CANDY. A. R. WALKER CANDY CORPORATION, Muskegon, Mich.
Filed April 12, 1923. Serial No. 179,074. PUBLISHED SEPTEMBER 25, 1923.

177,202. CANNED OLIVE OIL, FRUITS, AND VEGETABLES. MICHELE AJELLO CO. INC., Brooklyn, N. Y.
Filed April 14, 1923. Serial No. 179,127. PUBLISHED SEPTEMBER 25, 1923.

177,203. TAMALES. EDGAR J. KOPPE, doing business as The Tex-Alle Company, Los Angeles, Calif.
Filed April 14, 1923. Serial No. 179,154. PUBLISHED SEPTEMBER 25, 1923.

177,204. FLAVORING EXTRACT FOR FOODS. FLORASYNTH LABORATORIES, New York and Unionport, N. Y.
Filed April 16, 1923. Serial No. 179,191. PUBLISHED SEPTEMBER 25, 1923.

177,205. MALT EXTRACT FOR FOOD PURPOSES. OTTO THOMA, doing business as Columbia Products Company, St. Louis, Mo.
Filed April 16, 1923. Serial No. 179,240. PUBLISHED SEPTEMBER 25, 1923.

177,206. BEAUTY CLAY. LINCOLN LABORATORIES, INC., Chicago, Ill.
Filed April 18, 1923. Serial No. 179,308. PUBLISHED SEPTEMBER 18, 1923.

177,207. MEDICINAL TABLETS FOR THE PREVENTION AND TREATMENT OF CHOLERA, ROUP, AND DIARRHEA IN FOWLS. WALTER M. CARPENTER, doing business as Kluk Chemical Co., Minneapolis, Minn.
Filed April 20, 1923. Serial No. 179,412. PUBLISHED SEPTEMBER 18, 1923.

177,208. PERFUME, TOILET WATER, FACE POWDER, TALCUM POWDER, SACHET, BRILLIANTINE, ROUGE, AND FACE LOTION. LÉON COHN, doing business as Les Parfums Forest, Paris, France.
Filed March 16, 1923. Serial No. 177,547. PUBLISHED SEPTEMBER 18, 1923.

177,209. PLAIN AND FANCY CAKES. JUAN BERMEJO, New York, N. Y.
Filed March 17, 1923. Serial No. 177,582. PUBLISHED SEPTEMBER 18, 1923.

177,210. WHEAT FLOUR. FORD FLOUR COMPANY, Wilmington, Del., and Nashville, Tenn.
Filed March 17, 1923. Serial No. 177,601. PUBLISHED SEPTEMBER 18, 1923.

177,211. A HOG TONIC AND FOOD. THE AMERICAN STOCK FOOD CO., Blanchester, Ohio.
Filed March 21, 1923. Serial No. 177,759. PUBLISHED SEPTEMBER 18, 1923.

177,212. SYSTEM TONIC. SUSIE B. YOUNT, Louisville, Ky.
Filed March 21, 1923. Serial No. 177,809. PUBLISHED SEPTEMBER 18, 1923.

177,213. CERTAIN NAMED OILS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. ERIDANEA COMPANY, INC., Brooklyn, N. Y.
Filed March 7, 1923. Serial No. 177,080. PUBLISHED SEPTEMBER 11, 1923.

177,214. CANDIES, CANDY CONFECTIONS, SWEETMEATS, CHEWING GUM. IDEAL CARAMEL COMPANY, INC., Johnson City, N. Y.
Filed March 10, 1923. Serial No. 177,225. PUBLISHED AUGUST 28, 1923.

177,215. CHICK TONIC FEED. VERNON C. GETZ, doing business as The Wonderlay Company, Indianapolis, Ind.
Filed March 12, 1923. Serial No. 177,293. PUBLISHED SEPTEMBER 18, 1923.

177,216. WHEAT FLOUR. COMMANDER MILL CO., Minneapolis, Minn.
Filed February 19, 1923. Serial No. 176,251. PUBLISHED SEPTEMBER 18, 1923.

177,217. POULTRY FOOD MADE OF GRAINS. JAMESON-HEVENER COMPANY, St. Paul, Minn.
Filed February 20, 1923. Serial No. 176,346. PUBLISHED SEPTEMBER 25, 1923.

177,218. PASTRY FLOUR. JOSEPH MOSKOWITZ, New York, N. Y.
Filed February 21, 1923. Serial No. 176,416. PUBLISHED SEPTEMBER 18, 1923.

177,219. SELF-RISING WHEAT FLOUR. HATTIESBURG GROCERY CO., Hattiesburg, Miss.
Filed March 2, 1923. Serial No. 176,827. PUBLISHED SEPTEMBER 18, 1923.

177,220. WHEAT FLOUR. MINNEAPOLIS MILLING CO., Minneapolis, Minn.
Filed February 12, 1923. Serial No. 175,939. PUBLISHED SEPTEMBER 18, 1923.

177,221. COTTON PIECE GOODS. CHARLES L. POOR CO., New York, N. Y.
Filed February 14, 1923. Serial No. 176,040. PUBLISHED SEPTEMBER 18, 1923.

177,222. LYE. PENNSYLVANIA SALT MANUFACTURING COMPANY, Philadelphia, Pa.
Filed February 15, 1923. Serial No. 176,094. PUBLISHED SEPTEMBER 18, 1923.

177,223. HAIR TONIC AND SCALP OINTMENT. BERTHA H. BEUCHEL, doing business as Beuchel Mfg. Co., St. Louis, Mo.
Filed February 17, 1923. Serial No. 176,158. PUBLISHED SEPTEMBER 18, 1923.

177,224. WHIPPING POWDER FOR USE IN THE MANUFACTURE OF ICINGS, MERINGUE, KISSES, PUDDINGS, AND THE LIKE. JOS. MIDDLEBY, JR. INC., Boston, Mass.
Filed February 17, 1923. Serial No. 176,199. PUBLISHED SEPTEMBER 18, 1923.

177,225. OLEO, OLEO OIL, AND SHORTENING. CONSOLIDATED RENDERING COMPANY, Boston, Mass.
Filed January 27, 1923. Serial No. 175,187. PUBLISHED SEPTEMBER 18, 1923.

177,226. WHEAT FLOUR. JOHN LAUX, doing business as Wilsonville Roller Mills, Wilsonville, Nebr.
Filed February 3, 1923. Serial No. 175,501. PUBLISHED JUNE 19, 1923.

177,227. CERTAIN NAMED FOODS. ALBERS BROS. MILLING CO., Seattle, Wash.
Filed February 9, 1923. Serial No. 175,753. PUBLISHED SEPTEMBER 25, 1923.

177,228. TABLE SALT. HAAS, BARUCH & CO., Los Angeles, Calif.
Filed June 9, 1923. Serial No. 181,745. PUBLISHED SEPTEMBER 18, 1923.

177,229. DENTIFRICES AND PRODUCTS USED FOR THE HYGIENE OF THE MOUTH. SOCIETE ANONYME DENTIFRICES BI-OXYNE, Paris, France.
Filed June 8, 1923. Serial No. 181,705. PUBLISHED SEPTEMBER 18, 1923.

177,230. LOLLYPOPS. THE POPSICLE CORPORATION, New York, N. Y.
Filed June 6, 1923. Serial No. 181,614. PUBLISHED SEPTEMBER 25, 1923.

177,231. TOOTH POWDER, TOOTH PASTE, AND MOUTH WASH. JOHN OPPIE MCCALL, doing business as The Odontex Company, Buffalo, N. Y.
Filed June 6, 1923. Serial No. 181,606. PUBLISHED SEPTEMBER 18, 1923.

177,232. MEDICINAL PREPARATION USED IN THE TREATMENT OF GALLS, SORES, AND ALL KINDS OF SURFACE CUTS AND ABRASIONS ON HORSES. FREDERICK W. KELLEY, Glenwood, Iowa.
Filed June 6, 1923. Serial No. 181,601. PUBLISHED SEPTEMBER 18, 1923.

177,233. INSECT-DESTROYING PREPARATIONS. JACOB HERTZ, doing business as Hertz & Co., London, England.
Filed June 6, 1923. Serial No. 181,596. PUBLISHED SEPTEMBER 18, 1923.

177,234. CANNED FRUITS. SUSSMAN, WORMSER & CO., San Francisco, Calif.
Filed June 5, 1923. Serial No. 181,575. PUBLISHED SEPTEMBER 25, 1923.

177,235. CANNED SARDINES. IRWIN-HARRISONS & CROSFIELD, INC., San Francisco, Calif.
Filed June 5, 1923. Serial No. 181,567. PUBLISHED SEPTEMBER 25, 1923.

177,236. PACKAGE AND CANNED COFFEE. BURTON COFFEE COMPANY, Knoxville, Tenn.
Filed June 5, 1923. Serial No. 181,556. PUBLISHED SEPTEMBER 25, 1923.

177,237. PACKAGE AND CANNED COFFEE. BURTON COFFEE COMPANY, Knoxville, Tenn.
Filed June 5, 1923. Serial No. 181,554. PUBLISHED SEPTEMBER 25, 1923.

177,238. DYES. GYPSY DYES, INC., Chicago, Ill.
Filed June 2, 1923. Serial No. 181,486. PUBLISHED SEPTEMBER 18, 1923.

177,239. PREPARATION FOR ENERGIZING CIRCULATORY AND NERVOUS SYSTEMS OF THE HUMAN BODY. BURTON R. CHARLES, Los Angeles, Calif.
Filed June 2, 1923. Serial No. 181,474. PUBLISHED SEPTEMBER 18, 1923.

177,240. HAIR TONIC. SCIENTOL PRODUCTS CO. Brooklyn, N. Y.
Filed June 1, 1923. Serial No. 181,455. PUBLISHED SEPTEMBER 18, 1923.

177,241. CANDIES OF VARIOUS SORTS—NAMELY, POP-CORN CANDY. SHOTWELL MFG. CO., Chicago, Ill.
Filed May 31, 1923. Serial No. 181,416. PUBLISHED SEPTEMBER 25, 1923.

177,242. TABLE OILCLOTH. THE COLUMBUS-UNION OIL CLOTH CO., Columbus, Ohio.
Filed May 31, 1923. Serial No. 181,383. PUBLISHED SEPTEMBER 11, 1923.

177,243. PREPARATION FOR SYPHILIS, TABES, AND GENERAL PARALYSIS. SOCIETE ANONYME POUR L'EXPANSION DES MARQUES DE FABRIQUE ET DE COMMERCE, Courbevoie, France.
Filed May 29, 1923. Serial No. 181,355. PUBLISHED SEPTEMBER 18, 1923.

177,244. SULPHUR. SAN FRANCISCO SULPHUR CO., San Francisco, Calif.
Filed May 29, 1923. Serial No. 181,351. PUBLISHED SEPTEMBER 11, 1923.

177,245. TEA AND COFFEE. THE MIDLAND GROCERY COMPANY, Columbus, Ohio.
Filed May 29, 1923. Serial No. 181,346. PUBLISHED AUGUST 21, 1923.

177,246. ANTIFREEZE PREPARATION FOR USE IN AUTOMOBILE RADIATORS. LEE-STRAUSS CO., Johnstown, Pa.
Filed May 29, 1923. Serial No. 181,344. PUBLISHED AUGUST 21, 1923.

177,247. TOILET PREPARATIONS—NAMELY, TOOTH PASTE, MOUTH WASH, AND A PREPARATION FOR THE PREVENTION AND TREATMENT OF PYORRHEA. MASOL CHEMICAL CO., Chicago, Ill.
Filed June 9, 1923. Serial No. 181,760. PUBLISHED SEPTEMBER 18, 1923.

177,248. BEARING METALS. SUPER-REFINED METALS COMPANY, Los Angeles, Calif.
Filed July 18, 1923. Serial No. 183,420. PUBLISHED SEPTEMBER 25, 1923.

177,249. HOSIERY. DIAMOND BROS., New York, N. Y.
Filed July 18, 1923. Serial No. 183,366. PUBLISHED SEPTEMBER 25, 1923.

177,250. HOSIERY. VERTEX HOSIERY MILLS, INC., Weissport, Pa.
Filed July 17, 1923. Serial No. 183,352. PUBLISHED SEPTEMBER 25, 1923.

177,251. CHILDREN'S WAISTS AND UNDERWEAR OF KNITTED OR TEXTILE FABRICS. THE THOS. P. TAYLOR CO., Bridgeport, Conn.
Filed July 20, 1923. Serial No. 183,507. PUBLISHED SEPTEMBER 25, 1923.

177,252. CHILDREN'S WAISTS AND UNDERWEAR OF KNITTED OR TEXTILE FABRICS. THE THOS. P. TAYLOR CO., Bridgeport, Conn.
Filed July 20, 1923. Serial No. 183,506. PUBLISHED SEPTEMBER 25, 1923.

177,253. HOSIERY. CHARLES ISKOWITZ, New York, N. Y.
Filed July 21, 1923. Serial No. 183,525. PUBLISHED SEPTEMBER 25, 1923.

177,254. SHEEPSKIN COATS. SLANDS M'F'G. CO., New York, N. Y.
Filed July 24, 1923. Serial No. 183,636. PUBLISHED SEPTEMBER 25, 1923.

177,255. WOOD SCREWS. CONTINENTAL WOOD SCREW CO., New Bedford, Mass.
Filed August 10, 1923. Serial No. 184,280. PUBLISHED SEPTEMBER 25, 1923.

177,256. NAILS. CARPENTER-DODGE COMPANY, Arlington, Mass.
Filed August 4, 1923. Serial No. 184,065. PUBLISHED SEPTEMBER 25, 1923.

177,257. METAL CASTINGS MADE OF AN IRON MIXTURE OR ALLOY. PACIFIC FOUNDRY COMPANY, San Francisco, Calif.
Filed July 30, 1923. Serial No. 183,850. PUBLISHED SEPTEMBER 25, 1923.

177,258. NECKTIES. CHARLES SEIDMAN, doing business as Charles Seidman & Co., Philadelphia, Pa.
Filed July 27, 1923. Serial No. 183,763. PUBLISHED SEPTEMBER 25, 1923.

177,259. WOVEN AND KNITTED SWEATERS, BATHING SUITS, MUFFLERS, NECKTIES, AND SCARFS MADE FROM WOOL, WORSTED, COTTON, SILK, AND OTHER FIBERS. WONDER-KNIT MILLS, Union Hill, N. J.
Filed July 28, 1923. Serial No. 183,810. PUBLISHED SEPTEMBER 25, 1923.

177,260. HOSIERY. RITTER HOSIERY COMPANY, Fleetwood, Pa.
Filed July 25, 1923. Serial No. 183,669. PUBLISHED SEPTEMBER 25, 1923.

177,261. LACES AND JACQUARD FIGURED UPHOLSTERY GOODS. ALB. & E. HENKELS, INC., New York, N. Y.
Filed September 8, 1922. Serial No. 169,210. PUBLISHED SEPTEMBER 11, 1923.

177,262. OLIVE OIL. JOSEPH PETROCELLI & CO., INC., New York, N. Y.
Filed September 7, 1922. Serial No. 169,181. PUBLISHED SEPTEMBER 25, 1923.

177,263. SOFT DRINK AND SIRUPS. HENRY A. WHITNEY, doing business as The Vigorex Co., Woonsocket, R. I.
Filed August 15, 1922. Serial No. 168,285. PUBLISHED SEPTEMBER 18, 1923.

177,264. CANNED FISH. REID, MURDOCH & CO., Chicago, Ill.
Filed August 4, 1922. Serial No. 167,828. PUBLISHED SEPTEMBER 25, 1923.

177,265. MILK CHOCOLATE AND COCOA. LAMONT-CORLISS AND COMPANY, New York, N. Y.
Filed July 22, 1922. Serial No. 167,257. PUBLISHED MARCH 20, 1923.

177,266. MILK CHOCOLATE AND COCOA. LAMONT-CORLISS AND COMPANY, New York, N. Y.
Filed July 22, 1922. Serial No. 167,255. PUBLISHED MARCH 20, 1923.

177,267. COTTON PIECE GOODS. THE JOHN P. KING MANUFACTURING CO., Augusta, Ga.
Filed July 1, 1922. Serial No. 166,373. PUBLISHED SEPTEMBER 18, 1923.

177,268. ABORTION REMEDY AND AN INSECTICIDE FOR EXTERNAL USE. ERICK BOWMAN REMEDY COMPANY, INC., Owatonna, Minn.
Filed June 27, 1922. Serial No. 166,126. PUBLISHED SEPTEMBER 18, 1923.

177,269. VARNISH. MCDOUGALL-BUTLER CO. INC., Buffalo, N. Y.
Filed December 16, 1921. Serial No. 156,798. PUBLISHED APRIL 25, 1922.

177,270. BREAD. INDIAN VILLAGE BAKERY, Detroit, Mich.
Filed December 12, 1921. Serial No. 156,579. PUBLISHED SEPTEMBER 25, 1923.

177,271. CIGARS. HEINEMAN BROS., Baltimore, Md.
Filed December 9, 1921. Serial No. 156,491. PUBLISHED FEBRUARY 14, 1922.

177,272. CERTAIN NAMED MEDICINAL PREPARATIONS. CHARLES G. LUTHER, doing business as Luthers Pharmacy, Beaufort, S. C.
Filed December 6, 1921. Serial No. 156,331. PUBLISHED SEPTEMBER 11, 1923.

177,273. ARTICLES OF LADIES' APPAREL—NAMELY, SCARFS, HATS, CLOAKS, CAPES, SKIRTS, DRESSES, SWEATERS, SLIP-ONS, AND VESTS. I. PACHNER & SON, INC., New York, N. Y.
Filed July 17, 1923. Serial No. 183,342. PUBLISHED SEPTEMBER 25, 1923.

177,274. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. ROY B. LEWIS, doing business as Roy B. Lewis Co., Duluth, Minn.
Filed July 16, 1923. Serial No. 183,306. PUBLISHED SEPTEMBER 25, 1923.

177,275. DOOR CHECKS. THE NO-LIQUID DOOR CHECK COMPANY, Columbus, Ohio.
Filed July 14, 1923. Serial No. 183,225. PUBLISHED SEPTEMBER 25, 1923.

177,276. MEN'S DRESS AND NEGLIGEE SHIRTS. ORIOLE SHIRT MANUFACTURING CORPORATION, New York, N. Y.
Filed July 13, 1923. Serial No. 183,160. PUBLISHED SEPTEMBER 25, 1923.

177,277. COOKED FOODS OF ALL DESCRIPTIONS—NAMELY, SANDWICHES, COOKED MEATS AND VEGETABLES, SALAD, PASTRIES, AND CAKE. ANNIE F. COOK, Richmond, Va.
Filed August 4, 1922. Serial No. 167,802. PUBLISHED SEPTEMBER 18, 1923.

177,278. BATH ROBES, LOUNGING ROBES, DRESSING GOWNS, SMOKING JACKETS, AND NEGLIGEES. FISCHER-JELENKO INC., New York, N. Y.
Filed July 13, 1923. Serial No. 183,143. PUBLISHED SEPTEMBER 25, 1923.

177,279. YOUNG GIRLS' DRESSES. GERTRUDE KILLFEATHER, Spokane, Wash.
Filed July 13, 1923. Serial No. 183,157. PUBLISHED SEPTEMBER 25, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

177,280. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES D. ROSZELL, doing business as J. D. Roszell, Peoria, Ill. Filed Oct. 5, 1922. Serial No. 170,341.

Rossell's

Particular description of goods.—Milk Products—viz, Raw and Pasteurized Milk, Cream, Whipping Cream and Buttermilk, Condensed Milk, and Cottage Cheese; Ice Creams—viz, Sherbets, Frozen Ices, Punches, Individual Molds, Ice Cream, Ice-Cream Rolls, Bulk Ice Cream, Frozen Cordials, Chocolate-Covered Ice-Cream Bars, and Individual Wrapped Ice-Cream Specialties; and Confections—viz, Creams, Chocolates, Bonbons, Caramels, Caramel Paste, Chocolate-Covered Nuts, Fruits, Pastries, Marshmallows, Butter Creams, Candy Bars, Fudges, and Peanut Specialties.
Claims use since 1876 on milk, cream, whipping cream, and buttermilk; since 1907 on condensed milk and on cottage cheese; since 1916 on evaporated milk; since 1895 on sherbets, frozen ices, punches, individual molds, brick ice cream, ice-cream rolls, bulk ice cream, and frozen cordials; since 1912 on individual wrapped ice-cream specialties; since 1921 on chocolate-covered ice-cream bars; since 1919 on creams, chocolates, bonbons, caramels, caramel paste, chocolate-covered nuts, fruits, pastries, marshmallows, butter creams, fudges, and peanut specialties; and since 1921 on candy bars.

177,281. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAMONT-CORLISS AND COMPANY, New York, N. Y. Filed July 22, 1922. Serial No. 167,252.

SUPERLATIVE

Particular description of goods.—Chocolate Coating and Cocoa.
Claims use since July, 1913.

177,282. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAMONT-CORLISS AND COMPANY, New York, N. Y. Filed July 22, 1922. Serial No. 167,253.

KOHLER'S

Particular description of goods.—Cocoa and Chocolate.
Claims use since January, 1910.

177,283. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAMONT-CORLISS AND COMPANY, New York, N. Y. Filed July 22, 1922. Serial No. 167,251.

RICHEST IN CREAM

Particular description of goods.—Milk Chocolate.
Claims use since January, 1900.

177,284. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WHOLESALE DISTRIBUTORS CO., Chicago, Ill. Filed Jan. 3, 1922. Serial No. 157,463.

ROCHDALE BRAND

Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Fish, Sour Pickles, Chowchow, Tomato Catchup, Cider, Olives, Fruit Preserves, Fruit Jams, Fruit Jellies, Rolled Oats, Cocoa, Coffee, Peanut Butter, Creamery Butter, Sweet Chocolate, Spices, Prepared Mustard, Macaroni, Cornstarch, and Food-Flavoring Extracts.
Claims use since Mar. 1, 1920.

177,285. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAMONT-CORLISS AND COMPANY, New York, N. Y. Filed July 22, 1922. Serial No. 167,256.

HIGH AS THE ALPS IN QUALITY

Particular description of goods.—Milk Chocolate and Cocoa.
Claims use since 1900.

177,286. (CLASS 38. PRINTS AND PUBLICATIONS.) P. F. COLLIER & SON COMPANY, New York, N. Y. Filed Nov. 18, 1922. Serial No. 172,215.

JUNIOR CLASSICS
The Young Folks Shelf of Books

Particular description of goods.—Series of Books.
Claims use since Oct. 18, 1922.

177,287. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN BAKERIES CO., Atlanta, Ga. Filed Oct. 19, 1922. Serial No. 170,922.

Malt & Milk

Particular description of goods.—Bread.
Claims use since 1903.

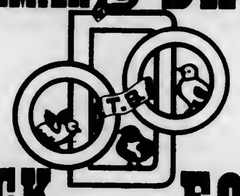
177,288. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. H. KNORR A. G., Heilbronn, Germany. Filed Feb. 1, 1923. Serial No. 175,401.

Knorr

Particular description of goods.—Flours—viz, Barley, Bean, Corn, Tapioca, Wheat, Lentil, Oat, Pea, Rice, and Potato; Soups, Vermicelli, Macaroni, Bouillon Cubes, Dried Vegetables, and Concentrated Food Flavors.
Claims use since Oct. 23, 1913.

177,289. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TAYLOR BROS., Camden, N. J. Filed Apr. 20, 1923. Serial No. 179,438.

O. D. O.
BUTTERMILK BABY



CHICK FOOD
MAKES 'EM GROW

Particular description of goods.—Poultry Feed.
Claims use since Mar. 15, 1920.

177,290. (CLASS 32. FURNITURE AND UPHOLSTERY.) BAUSMAN MANUFACTURING COMPANY, Bausman, Pa. Filed Aug. 17, 1923. Serial No. 184,583.

Bausman Better Benches

Particular description of goods.—Benches and Settees for House, Porch, and Lawn.
Claims use since December, 1919.

177,291. (CLASS 33. GLASSWARE.) FOSTORIA GLASS COMPANY, Moundsville, W. Va. Filed Oct. 19, 1923. Serial No. 187,212.

FOSTORIA PRODUCT MADE IN U.S.A.

Particular description of goods.—Table Glassware, Ornamental Glassware, and Glass Toilet Articles.
Claims use since Nov. 5, 1909.

LABELS

REGISTERED DECEMBER 11, 1923.

26,657.—*Title:* BARBERS HAIR DRESSING. For Hair Dressing. VICTOR E. BENEDICT, Dallas, Tex. Published November 1, 1923.

26,658.—*Title:* BETA-PINE. For Cough Syrup. BETA-PINE CO., Brooklyn, N. Y. Published October 15, 1923.

26,659.—*Title:* KEWPEE HOTELS. For Sandwiches. FRANCIS J. BLAIR, Kalamazoo, Mich. Published September 3, 1923.

26,660.—*Title:* BUNTE FINE HARD CANDIES. For Cans for Containing Candy. BUNTE BROTHERS, Chicago, Ill. Published August 20, 1923.

26,661.—*Title:* BUNTE DIANA STUFT CONFECTIONS. For Cans for Containing Candy. BUNTE BROTHERS, Chicago, Ill. Published August 20, 1923.

26,662.—*Title:* BUNTE WORLD FAMOUS CANDIES. For Cans for Containing Candy. BUNTE BROTHERS, Chicago, Ill. Published August 20, 1923.

26,663.—*Title:* A FAMILY OF DOLLS ALL FROM ONE CHANGE-O-DOLL AND A FEW EXTRA HEADS. For Dolls. CHANGE-O-DOLL COMPANY, New York, N. Y. Published November 1, 1923.

26,664.—*Title:* RIDGECREST. For Dried Prunes. COYKENDALL, INC., San Francisco, Calif. Published September 24, 1923.

26,665.—*Title:* LES PRODUITS DE BEAUTÉ DE ROSARIO DUPREZ NEW YORK. For Beauty Preparations. ROSARIO DUPREZ, New York, N. Y. Published July 19, 1923.

26,666.—*Title:* MAGNET. For Hair Nets. FEMINA IMPORTING COMPANY, New York, N. Y. Published July 18, 1923.

26,667.—*Title:* STANDARD SHIRT. For Shirts. ISAAC GREENBERG, New York, N. Y. Published January 2, 1923.

26,668.—*Title:* SANDWICH RELISH. For Relish. HENARD MAYONNAISE COMPANY, Nashville, Tenn. Published September 1, 1923.

26,669.—*Title:* ANESTYPTICIDE. For a Local Preparation by That Name Having Anæsthetic, Styptic, and Antiseptic Properties. DR. LOUIS C. HESS, Chestertown, Md. Published September 27, 1923.

26,670.—*Title:* IT IS A PLEASURE TO USE JACK'S FLY AND INSECT MIST. For a Preparation for Destroying Flies and Insects. THE JOHNSTON UNITED CHEMICAL CO., Clare, Mich. Published January 3, 1923.

26,671.—*Title:* GOOD SAMARITAN OINTMENT. For Ointment. HOWARD ETHAN KELLEY, doing business as Good Samaritan Company, New York, N. Y. Published November 10, 1923.

26,672.—*Title:* BABY'S CLOTHES TREE. For Babies' Clothes Trees. RICHARD G. KRUEGER, New York, N. Y. Published July 30, 1923.

26,673.—*Title:* MASON'S ALMOND NOUGAT BARS. For Candy. MASON, AU & MAGENHEIMER CONFECTIONERY MANUFACTURING COMPANY, Brooklyn, N. Y. Published November 1, 1923.

26,674.—*Title:* PHILADELPHIA DOUBLE STRENGTH. For Malt Extract. PHILADELPHIA MALT EXTRACT CO., Philadelphia, Pa. Published October 19, 1923.

26,675.—*Title:* EL CONTENTO. For Coffee. QUALITY COFFEE & TEA CO., INC., Los Angeles, Calif. Published September 11, 1923.

26,676.—*Title:* DANDRFALL. For Hair Tonic. FRANK RUSSO, doing business as Brixton Manufacturing Company, New York, N. Y. Published November 9, 1923.

26,677.—*Title:* CLEANS AND POLISHES ALL-IN-ONE OPERATION. For a Polish for Autos and Furniture. ELMER T. STEGE, St. Louis, Mo. Published July 1, 1923.

26,678.—*Title:* THE LAURA NET. For Hair Nets. CHARLES K. THAU, doing business as Laura Hair Novelty Co., New York, N. Y. Published February 9, 1920.

26,679.—*Title:* TUT-ANKH-AMEN EGYPTIAN BEAUTY CLAY. For White Beauty Clay. HELEN WAKELIN, doing business as Tutankhamen Laboratory, Pittsburgh, Pa. Published October 23, 1923.

26,680.—*Title:* WARD'S SWEET ROLLS. For Rolls. WARD BAKING COMPANY, New York, N. Y. Published September 18, 1923.

26,681.—*Title:* WARD'S NONPAREIL CAKES. For Cake. WARD BAKING COMPANY, New York, N. Y. Published October 16, 1923.

26,682.—*Title:* EXTRA DRY (WITH A REPRESENTATION OF A PEACOCK). For Ginger Ale. WEISBROD & HESS BREWING COMPANY, doing business as Weisbrod & Hess, Philadelphia, Pa. Published May 29, 1923.

26,683.—*Title:* UNCLE WIGGILY CRAYOLA COLOR BOX. For Crayon Boxes. FRED A. WISH, INC., New York, N. Y. Published August 17, 1923.

26,684.—*Title:* UNCLE WIGGILY. For a Pull Toy. FRED A. WISH, INC., New York, N. Y. Published August 9, 1923.

PRINTS

REGISTERED DECEMBER 11, 1923

7,063.—*Title:* VENUS: THE LARGEST SELLING QUALITY PENCIL IN THE WORLD. For Pencils. AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Published September 8, 1923.

7,064.—*Title:* LOOSE-FITTING B. V. D. UNDERWEAR. For Athletic Underwear. THE B. V. D. COMPANY, INC., New York, N. Y. Published September 23, 1923.

7,065.—*Title:* CREMA DE PERLAS DE BARRY. For Liquid Face Powder. BARCLAY & Co., New York, N. Y. Published September 1, 1923.

7,066.—*Title:* TRICÓFERO BARRY. For a Hair Tonic. BARCLAY & Co., New York, N. Y. Published September 1, 1923.

7,067.—*Title:* PILDORITAS REUTER. For Liver Pills. BARCLAY & Co., New York, N. Y. Published September 1, 1923.

7,068.—*Title:* ARROW COLLARS AND SHIRTS FOR FORMAL DRESS. For Collars and Shirts. CLUETT, PEABODY & Co. INC., Troy, N. Y. Published November 5, 1923.

7,069.—*Title:* TUXARA AN ARROW WING COLLAR—A SMART, ETC. For Collars. CLUETT, PEABODY & Co. INC., Troy, N. Y. Published November 5, 1923.

7,070.—*Title:* ARROW SHIRTS—THE ARROW SHIRTS ARE DISTINGUISHED FOR THEIR BETTER QUALITY, ETC. For Shirts. CLUETT, PEABODY & Co. INC., Troy, N. Y. Published March 31, 1923.

7,071.—*Title:* AS OTHERS SEE IT. For Income-Tax Records or Books. COMMONWEALTH PUBLISHING COMPANY, Chicago, Ill. Published October 3, 1923.

7,072.—*Title:* TO THE QUEEN'S TASTE. For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published November 3, 1923.

7,073.—*Title:* AUTHORITIES CALL IT THE "NEGLECTED AGE." For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published November 9, 1923.

7,074.—*Title:* THERE IS SOMETHING ABOUT THE PRESENCE OF A PIPE ORGAN IN A HOME THAT GIVES THE HOUSE A DISTINCTION, ETC. For Estey Organ. THE ESTEY ORGAN COMPANY, Brattleboro, Vt. Published August 1, 1923.

7,075.—*Title:* THE ESTEY RESIDENCE PIPE ORGAN—GREATEST OF ALL INSTRUMENTS OF MUSIC IS THE ORGAN, ETC. For Estey Organs. THE ESTEY ORGAN COMPANY, Brattleboro, Vt. Published October 1, 1923.

7,076.—*Title:* OLIVES FROM SPAIN—FROM SEVILLE, IN SUNNY SPAIN, ETC. For Heinz 57 Varieties. H. J. HEINZ Co., Pittsburgh, Pa. Published July 1, 1923.

7,077.—*Title:* 56 IS JUST A NUMBER—58 IS JUST A NUMBER, ETC. For Heinz 57 Varieties. H. J. HEINZ Co., Pittsburgh, Pa. Published September 1, 1923.

7,078.—*Title:* PROTECTING THE BEAUTIFUL COMPLEXION. For Honey and Almond Cream and Cremis Face Powder. A. S. HINDS Co., Portland, Me. Published October 2, 1923.

7,079.—*Title:* UNDER THE KEEN APPRAISAL OF SCORES OF CRITICAL EYES. For Hosiery. "ONYX" HOSIERY INC., New York, N. Y. Published November 1, 1923.

7,080.—*Title:* BABY EGGS. For Eggs. MICHAEL PACKMAN, Atlantic City, N. J. Published October 19, 1923.

7,081.—*Title:* WHAT THE EYES OF OTHERS SEE. For Palmolive Soap. THE PALMOLIVE COMPANY, Milwaukee, Wis. Published October 20, 1923.

7,082.—*Title:* TRUTH IN ADVERTISING DRUG PRODUCTS. For Drugs. E. R. SQUIBB & SONS, New York, N. Y. Published October 28, 1923.

7,083.—*Title:* THE DANGER LINE THERE IS A TINY RIDGE ON THE SURFACE OF YOUR TEETH. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published August 1, 1923.

7,084.—*Title:* FIGHT ACID-EROSION AT "THE DANGER LINE" IF YOU WANT SOUND TEETH AND HEALTHY GUMS. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published July 21, 1923.

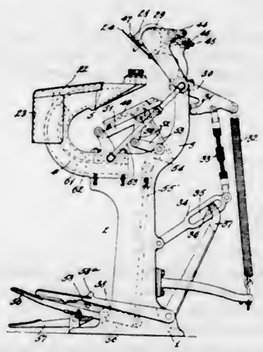
7,085.—*Title:* ONLY IN ITALY IS FOUND SUCH TALC—ONLY SQUIBB BRINGS SUCH A TALCUM TO YOU. For Talcum and Cold Cream. E. R. SQUIBB & SONS, New York, N. Y. Published August 15, 1923.

7,086.—*Title:* SOLID SILVER—PRECIOUS THRO THE AGES. For Solid Silverware. TOWLE MANUFACTURING Co., Newburyport, Mass. Published August 15, 1923.

REISSUES

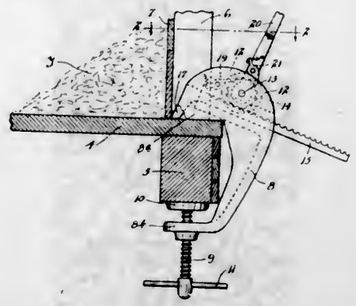
DECEMBER 11, 1923.

15,728. SHIRT-PRESSING MACHINE. CHARLES L. BRALEY, Chicago, Ill., assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 14, 1922. Serial No. 588,245. Original No. 1,403,838, dated Jan. 17, 1922, Serial No. 135,810, filed Dec. 8, 1916. 20 Claims. (Cl. 68—9.)



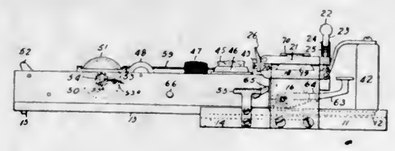
13. A garment press, comprising relatively movable pressing members, two sets of mechanism, each having an actuating treadle, for producing pressing effects by said members, and release means operatable by a single release movement for releasing said sets of mechanism.

15,729. GRAIN-DOOR-FORCING DEVICE. WILLIAM H. MCGANN, Minneapolis, Minn. Filed May 16, 1923. Serial No. 639,461. Original No. 1,400,447, dated Dec. 13, 1921, Serial No. 407,052, filed Aug. 30, 1920. Reissue No. 15,306, dated Mar. 14, 1922, Serial No. 535,229, filed Feb. 6, 1922. Application for second reissue filed June 1, 1922, Serial No. 563,565. Reissue No. 15,397, dated July 4, 1922. 10 Claims. (Cl. 254—95.)



10. A car door opening device having combination, a member having means for positively supporting the same in stationary position directly in front of the car door and at any point along the front thereof, a plunger carried by said member and having means at its forward end to engage said door, means on said plunger and disposed along the same by which it can be moved longitudinally, a member engaging said last mentioned means and co-operating therewith to move said plunger longitudinally, and rotating means for causing said last mentioned member to operate to move said means on said plunger and thus move said plunger longitudinally.

15,730. FILM-SPLICING MACHINE. MAURICE METZGER, Montreal, Quebec, Canada. Filed May 5, 1923. Serial No. 637,030. Original application filed May 17, 1918, Serial No. 235,134. Renewed Apr. 22, 1922, Serial No. 556,133. Original No. 1,437,348, dated Nov. 28, 1922. 15 Claims. (Cl. 154—42.)

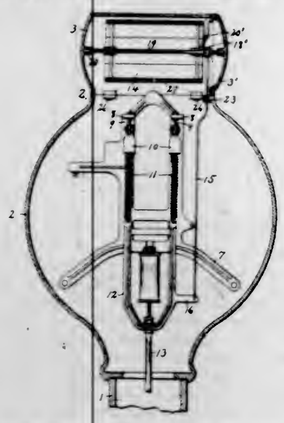


1. In a film splicing machine the combination of:—film holding elements, means adapted to hold said elements out of overlapping relation comprising a trigger mounted on one of the said film holding elements, a reciprocating member adapted to move relatively to the said film holding elements, and to cut, clean and cement the film ends, means adapted to move said film holding elements into overlapping relation, and means adapted to release the said trigger and move the film holding elements out of overlapping relation.

15,731. ADVERTISING DEVICE FOR WEIGHING-SCALES. WILLIAM J. VANDERCAR, Cohoes, N. Y., assignor, by mesne assignments, to The Colonial Metal Products Company, Inc., Syracuse, N. Y., a Corporation of Delaware. Filed June 6, 1922. Serial No. 566,422. Original No. 1,346,923, dated July 20, 1920, Serial No. 362,081, filed Feb. 28, 1920. 7 Claims. (Cl. 40—28.)

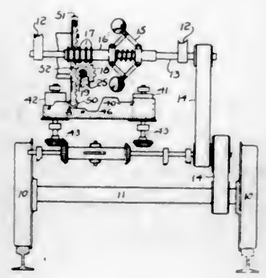
1. In a weighing scale of the character described, the combination of a dial case, a supplemental case mounted upon the top of the dial case and provided with an opening in one side, and also having a movable end wall to permit access to the interior thereof, a vertical reciprocatory frame within the dial case, a drum rotatably mounted within the supplemental case and movable across said opening, a ratchet wheel at one end of the drum and operatively connected thereto, a pawl engaged with the

ratchet wheel and a rod connecting the movable frame with said pawl to cause the rotation of the drum step by



step one tooth space at a time at each successive movement of the frame in one direction.

15,732. TRACK-HAZARD INDICATOR. PAUL J. SIMMEN, Eden, N. Y. Filed Aug. 13, 1921. Serial No. 492,156. Original No. 1,287,474, dated Dec. 10, 1918, Serial No. 95,080, filed May 3, 1916. 8 Claims. (Cl. 303—21.)

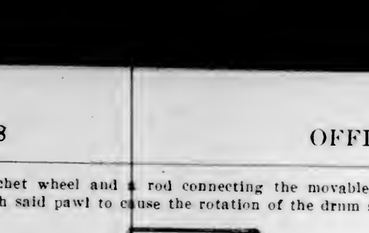


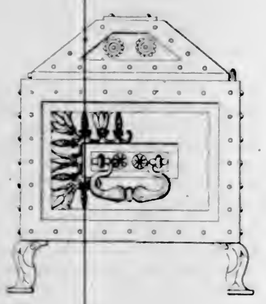
1. The combination with a vehicle, of an actual speed indicator, a permissive speed indicator, a track hazard indicator and operative connection between the latter and the permissive speed indicator.

DESIGNS

DECEMBER 11, 1923.

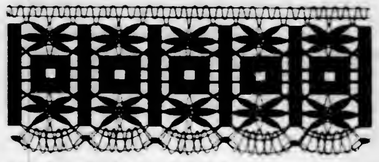
63,445. JEWEL CASE. JOHN ANTAL, Brooklyn, N. Y. Filed June 22, 1922. Serial No. 2,770. Term of patent 3½ years.





The ornamental design for a jewel case as shown.

63,446. LACE. HARRY B. BARNUM, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed June 22, 1923. Serial No. 6,552. Term of patent 14 years.



The ornamental design for lace substantially as shown.

63,447. TEXTILE FABRIC. ARTHUR O. BAYER, Philadelphia, Pa. Filed Feb. 5, 1923. Serial No. 5,086. Term of patent 7 years.



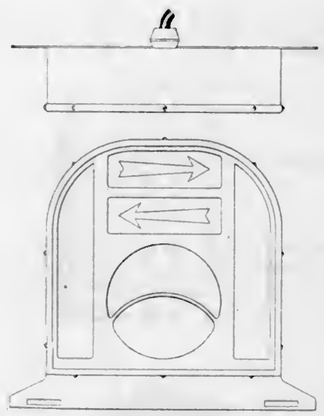
The ornamental design for textile fabric, as shown.

63,448. SPOON OR SIMILAR ARTICLE. ERNEST T. BECK, Meriden, Conn., assignor to International Silver Company, Meriden, Conn., a Corporation of New Jersey. Filed Oct. 30, 1922. Serial No. 4,167. Term of patent 7 years.



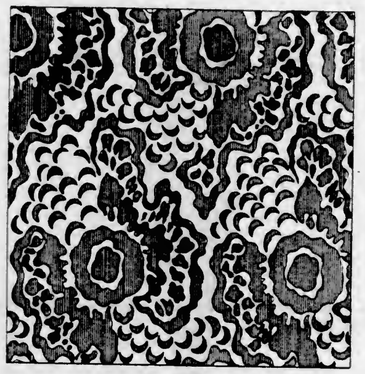
The ornamental design for a spoon or similar article substantially as shown.

63,449. TRAFFIC SIGNAL. ISRAEL BERENSON, Boston, Mass. Filed Dec. 19, 1922. Serial No. 4,640. Term of patent 14 years.



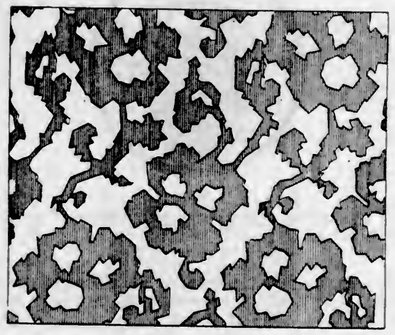
The ornamental design for a traffic signal as shown.

63,450. TEXTILE FABRIC. JAMES H. BUNTING, Clifton, N. J., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed July 10, 1923. Serial No. 6,742. Term of patent 3½ years.



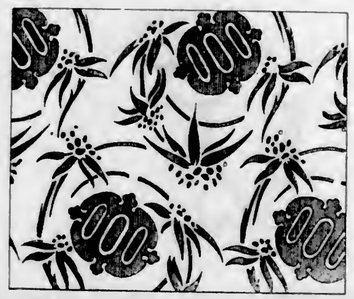
The ornamental design for a textile fabric, as shown.

63,451. TEXTILE FABRIC. JAMES H. BUNTING, Clifton, N. J., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed July 10, 1923. Serial No. 6,743. Term of patent 3½ years.



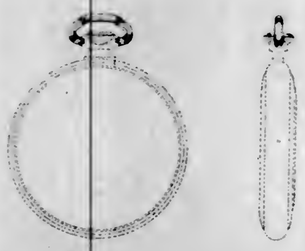
The ornamental design for a textile fabric, as shown.

63,452. TEXTILE FABRIC. JAMES H. BUNTING, Clifton, N. J., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed July 10, 1923. Serial No. 6,744. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

63,453. WATCHCASE BOW. ARTHUR P. CONANT, Fort Thomas, Ky., assignor to The Wadsworth Watch Case Company, Dayton, Ky., a Corporation of Kentucky. Filed June 26, 1923. Serial No. 6,582. Term of patent 14 years.



The ornamental design for a watchcase bow, substantially as shown.

63,454. WATCHCASE DIAL. ARTHUR P. CONANT, Fort Thomas, Ky., assignor to The Wadsworth Watch Case Company, Dayton, Ky., a Corporation of Kentucky. Filed June 26, 1923. Serial No. 6,585. Term of patent 14 years.



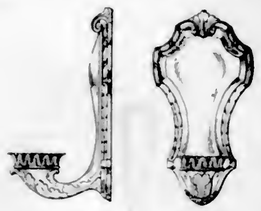
The ornamental design for a watchcase dial, substantially as shown.

63,455. RING FOR LIGHTING FIXTURES. THURE DAHL, New York, N. Y. Filed Dec. 2, 1921. Serial No. 519,519. Term of patent 3½ years.



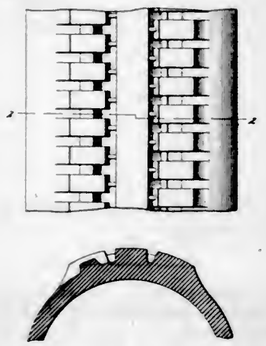
The ornamental design for a ring for lighting fixtures as shown.

63,456. WALL BRACKET FOR LIGHTING FIXTURES. THURE E. DAHL, New York, N. Y. Filed July 3, 1923. Serial No. 6,665. Term of patent 3½ years.



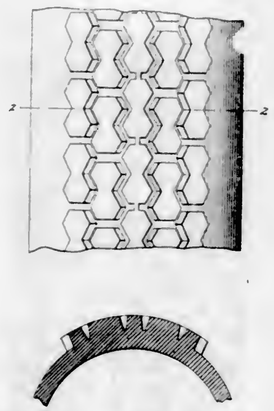
The ornamental design for a wall bracket for lighting fixtures, as shown.

63,457. TIRE. WALTER R. DENMAN, Cleveland, Ohio. Filed May 23, 1922. Serial No. 2,384. Term of patent 14 years.



The ornamental design for a tire as shown.

63,458. TIRE. WALTER R. DENMAN, Cleveland, Ohio. Filed May 23, 1922. Serial No. 2,388. Term of patent 14 years.



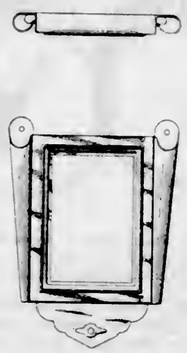
The ornamental design for a tire as shown.

63,459. DOILY, CENTERPIECE, SCARF, OR SIMILAR ARTICLE. LAWRENCE DINKELSPIEL, West New York, N. J., assignor to Harnapp, Dinkelspiel & Co. Inc., a Corporation of New York. Filed July 24, 1923. Serial No. 6,847. Term of patent 3½ years.



The ornamental design for doily, centerpiece, scarf, or similar article, as shown.

63,460. SERVICE HOLDER FOR ICE PICKS AND BOOKS. CLAUS E. ERICKSON, Des Moines, Iowa. Filed Apr. 17, 1922. Serial No. 1,812. Term of patent 7 years.



The ornamental design for service holder for ice picks and books, as shown.

63,461. SMOKER'S TRAY. GUSTAV FIEDLER, New York, N. Y. Filed Dec. 15, 1922. Serial No. 4,605. Term of patent 3½ years.



The ornamental design for a smoker's tray, as shown.

63,462. VASE. ALFRED J. FLAUDER, Bridgeport, Conn., assignor to The Wiedlich Bros. Mfg. Co., Bridgeport, Conn., a Corporation of Connecticut. Filed July 17, 1923. Serial No. 6,793. Term of patent 7 years.



The ornamental design for a vase substantially as shown.

63,463. KETTLE OR SIMILAR ARTICLE. JOSEPH FRIEDMAN, Brooklyn, N. Y. Filed June 8, 1922. Serial No. 2,589. Term of patent 7 years.



The ornamental design for a kettle or similar article, as shown and described.

63,464. ICE-CREAM CONE. DAVID GERBER, Baltimore, Md. Filed Aug. 11, 1923. Serial No. 6,994. Term of patent 14 years.



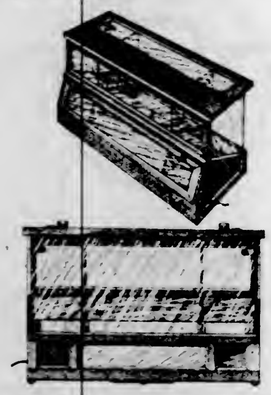
The ornamental design for an ice cream cone as shown in the drawing.

63,465. AUTOMOBILE TIRE TREAD. PHILIP H. HEATER, Bucyrus, Ohio. Filed Aug. 2, 1923. Serial No. 6,928. Term of patent 3½ years.



The ornamental design for an automobile tire tread, as shown.

63,466. DISPENSING CABINET. MARCUS G. JAMES, Norfolk, Va. Filed Feb. 21, 1922. Serial No. 814. Term of patent 3½ years.



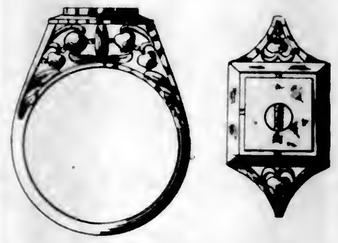
The ornamental design for a dispensing cabinet, as shown.

63,467. DOLL. VALLEY M. KIEFFER, Buffalo, N. Y. Filed Dec. 22, 1921. Serial No. 524,314. Term of patent 3½ years.



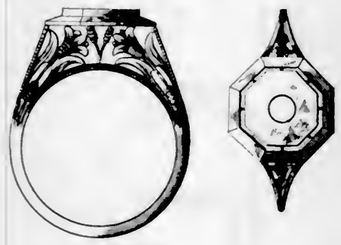
The ornamental design for a doll, as shown.

63,468. FINGER RING OR SIMILAR ARTICLE. FREDERICK C. LAUTZ, Vauxhall, N. J., assignor to David Belais, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 29, 1923. Serial No. 5,628. Term of patent 3½ years.



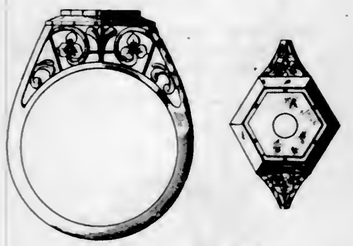
The ornamental design for a finger ring, or similar article as shown.

63,469. FINGER RING OR SIMILAR ARTICLE. FREDERICK C. LAUTZ, Vauxhall, N. J., assignor to David Belais, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 29, 1923. Serial No. 5,629. Term of patent 3½ years.



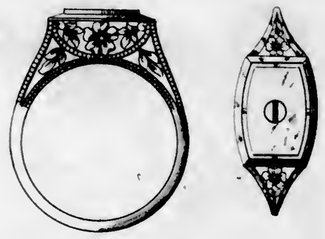
The ornamental design for a finger ring or similar article, as shown.

63,470. FINGER RING OR SIMILAR ARTICLE. FREDERICK C. LAUTZ, Vauxhall, N. J., assignor to David Belais, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 29, 1923. Serial No. 5,630. Term of patent 3½ years.



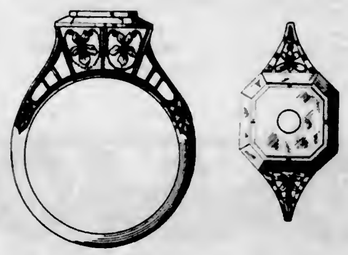
The ornamental design for a finger ring or similar article, as shown.

63,471. FINGER RING OR SIMILAR ARTICLE. FREDERICK C. LAUTZ, Vauxhall, N. J., assignor to David Belais, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 29, 1923. Serial No. 5,631. Term of patent 3½ years.



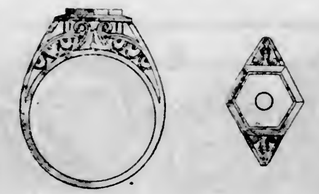
The ornamental design for a finger ring, or similar article as shown.

63,472. FINGER RING OR SIMILAR ARTICLE. FREDERICK C. LAUTZ, Vauxhall, N. J., assignor to David Belais, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 29, 1923. Serial No. 5,632. Term of patent 3½ years.



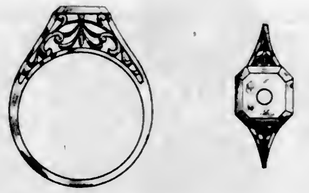
The ornamental design for a finger ring or similar article as shown.

63,473. FINGER RING OR SIMILAR ARTICLE. FREDERICK C. LAUTZ, Vauxhall, N. J., assignor to David Belais, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 29, 1933. Serial No. 5,633. Term of patent 3½ years.



The ornamental design for a finger ring, or similar article as shown.

63,474. FINGER RING OR SIMILAR ARTICLE. FREDERICK C. LAUTZ, Vauxhall, N. J., assignor to David Belais, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 29, 1923. Serial No. 5,634. Term of patent 3½ years.



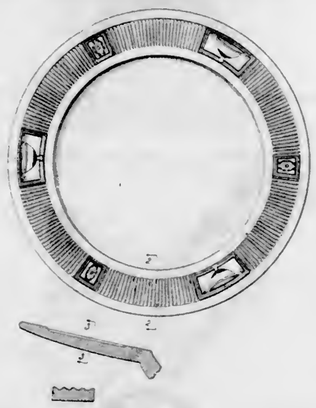
The ornamental design for a finger ring, or similar article as shown.

63,475. LAMP. HENRI G. LEVY, San Francisco, Calif. Filed Jan. 3, 1922. Serial No. 6. Term of patent 3½ years.



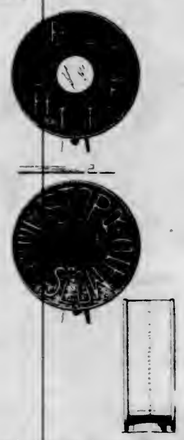
The ornamental design for a lamp as shown.

63,476. PLATE OR SIMILAR ARTICLE. PERCY N. LEYLAND, Glen Ridge, N. J. Filed Mar. 29, 1922. Serial No. 1,446. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.

63,477. SIGNAL. SIDNEY O. MARTIN, St. Louis, Mo. Filed Oct. 11, 1922. Serial No. 3,934. Term of patent 14 years.



The ornamental design for a signal, as shown.

63,478. TIRE. GEORGE L. MATHER, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Aug. 30, 1923. Serial No. 7,122. Term of patent 14 years.



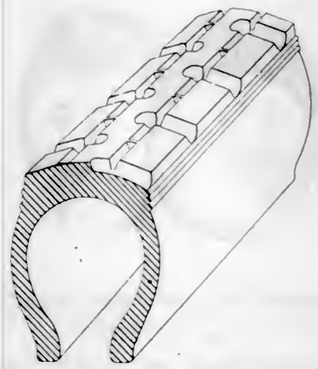
The ornamental design for a tire substantially as shown.

63,479. RING. CARROLL E. MILLER, JR., San Francisco, Calif. Filed July 3, 1922. Serial No. 2,939. Term of patent 3½ years.



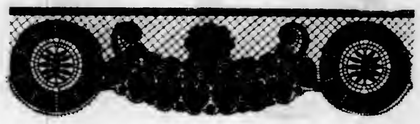
The ornamental design for a ring, as shown and described.

63,480. TIRE. RALPH H. NESMITH, Detroit, Mich., assignor to Morgan & Wright, Detroit, Mich., a Corporation of Michigan. Filed June 30, 1923. Serial No. 6,632. Term of patent 14 years.



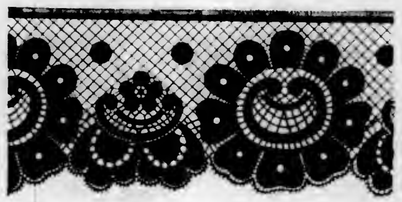
The ornamental design for a tire as shown.

63,481. LACE. SAMUEL H. PAGE, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed June 7, 1923. Serial No. 6,436. Term of patent 14 years.



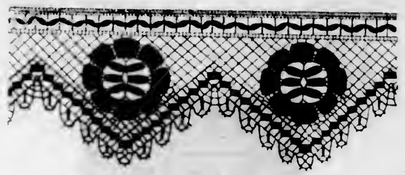
The ornamental design for lace substantially as shown.

63,482. LACE. SAMUEL H. PAGE, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed June 22, 1923. Serial No. 6,553. Term of patent 14 years.



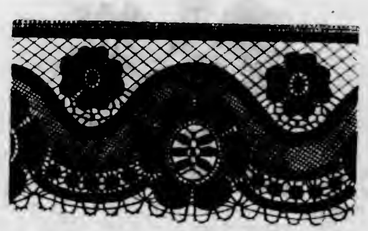
The ornamental design for lace substantially as shown.

63,483. LACE. SAMUEL H. PAGE, Stratford, Conn., assignor to American Fabrics Company, a Corporation of Connecticut. Filed June 22, 1923. Serial No. 6,554. Term of patent 14 years.



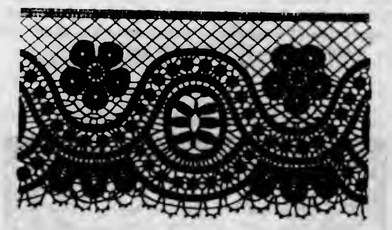
The ornamental design for lace substantially as shown.

63,484. LACE. SAMUEL H. PAGE, Stratford, Conn. Filed June 28, 1923. Serial No. 6,601. Term of patent 14 years.



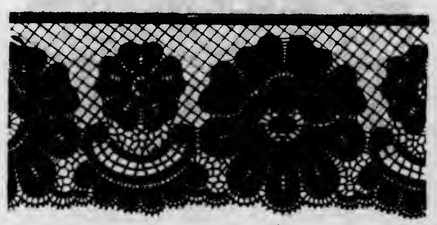
The ornamental design for lace substantially as shown.

63,485. LACE. SAMUEL H. PAGE, Stratford, Conn. Filed June 28, 1923. Serial No. 6,602. Term of patent 14 years.



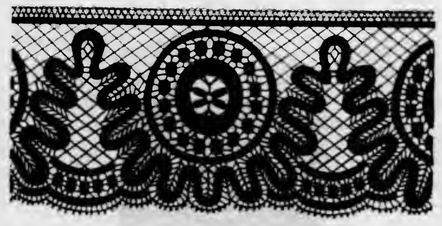
The ornamental design for lace substantially as shown.

63,486. LACE. SAMUEL H. PAGE, Stratford, Conn. Filed June 28, 1923. Serial No. 6,603. Term of patent 14 years.



The ornamental design for lace substantially as shown.

63,487. LACE. SAMUEL H. PAGE, Stratford, Conn. Filed June 28, 1923. Serial No. 6,604. Term of patent 14 years.



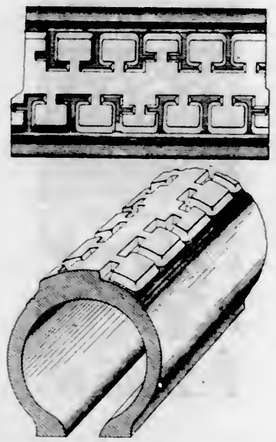
The ornamental design for lace substantially as shown.

63,488. DOLL, STATUETTE, OR ARTICLE OF SIMILAR NATURE. LUCILE J. PARTIN, Lagrange, Ga. Filed May 28, 1923. Serial No. 6,308. Term of patent 3½ years.



The ornamental design for a doll, statuette, or article of similar nature, as shown.

63,489. TIRE TREAD. HARRY E. PHELPS, Brooklyn, N. Y., assignor to C. Kenyon Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 28, 1922. Serial No. 2,012. Term of patent 3½ years.



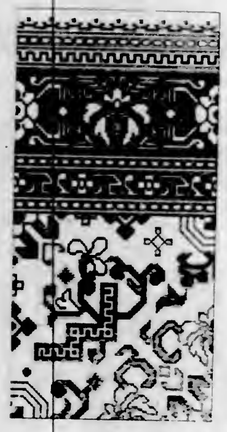
The ornamental design for a tire tread substantially as shown.

63,490. LINOLEUM, OILCLOTH, OR FLOOR COVERING. CORNELIA M. POST, Philadelphia, Pa., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of Delaware. Filed June 13, 1923. Serial No. 6,481. Term of patent 7 years.



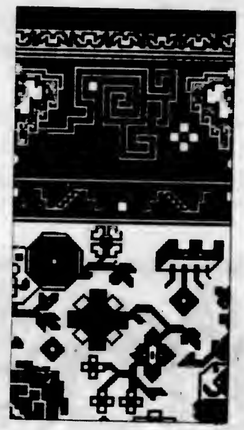
The ornamental design for linoleum, oilcloth or floor covering, substantially as shown.

63,491. LINOLEUM, OILCLOTH, OR FLOOR COVERING. CORNELIA M. POST, Philadelphia, Pa., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of Delaware. Filed June 13, 1923. Serial No. 6,484. Term of patent 7 years.



The ornamental design for linoleum, oilcloth or floor covering, substantially as shown.

63,492. LINOLEUM, OILCLOTH, OR FLOOR COVERING. CORNELIA M. POST, Philadelphia, Pa., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of Delaware. Filed June 13, 1923. Serial No. 6,485. Term of patent 7 years.



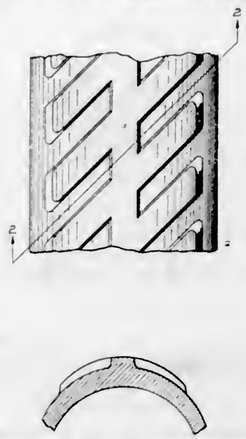
The ornamental design for linoleum, oilcloth or floor covering, substantially as shown.

63,493. LINOLEUM, OILCLOTH, OR FLOOR COVERING. CORNELIA M. POST, Philadelphia, Pa., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of Delaware. Filed June 13, 1923. Serial No. 6,486. Term of patent 7 years.



The ornamental design for linoleum, oilcloth or floor covering, substantially as shown.

63,494. TIRE. BENJAMIN H. PRATT, Milwaukee, Wis., assignor to The Badger Rubber Works, Cudahy, Wis., a Corporation of Wisconsin. Filed Apr. 24, 1922. Serial No. 1,953. Term of patent 14 years.

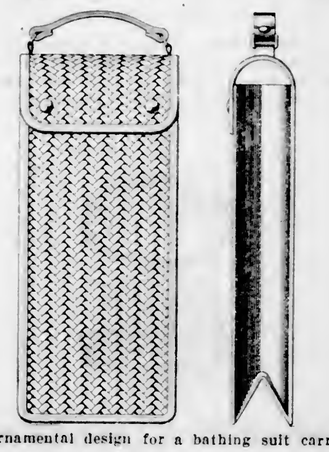


The ornamental design for a tire substantially as shown.

63,495. VANITY BOX. EDWIN ROSS, New York, N. Y., assignor to Woodworth Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 19, 1923. Serial No. 4,937. Term of patent 7 years.

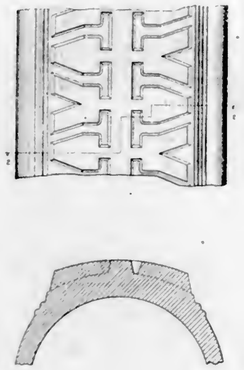
The ornamental design for a vanity box as shown and described.

63,496. BATHING-SUIT CARRIER. JULIUS SCHACHT, New York, N. Y. Filed Jan. 26, 1922. Serial No. 368. Term of patent 7 years.



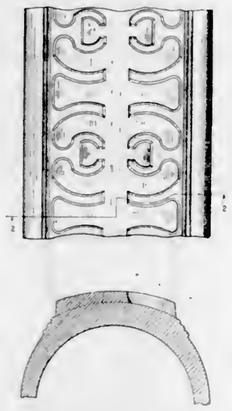
The ornamental design for a bathing suit carrier, as shown.

63,497. TIRE. HENRY G. SCHMIDT, Norwalk, Conn., assignor to The Norwalk Tire & Rubber Company, Norwalk, Conn., a Corporation of Connecticut. Filed Apr. 17, 1923. Serial No. 5,832. Term of patent 3½ years.



The ornamental design for a tire, as shown.

63,498. TIRE. HENRY G. SCHMIDT, Norwalk, Conn., assignor to The Norwalk Tire & Rubber Company, Norwalk, Conn., a Corporation of Connecticut. Filed Apr. 17, 1923. Serial No. 5,833. Term of patent 3½ years.



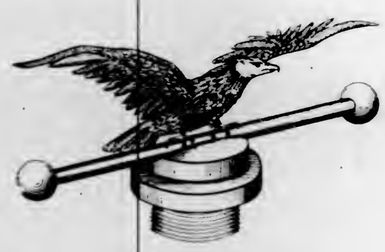
The ornamental design for a tire, as shown.

63,499. SIGN. WILLY G. SESSER, Detroit, Mich., assignor to Greater Detroit Rexall Club, Detroit, Mich., a Voluntary Association. Filed Mar. 29, 1923. Serial No. 5,644. Term of patent 14 years.



The ornamental design for a sign, as shown.

63,500. RADIATOR CAP. JAMES EARL SIMPSON, Tulsa, Okla. Filed Aug. 21, 1922. Serial No. 3,484. Term of patent 14 years.



The ornamental design for a radiator cap as shown.

63,501. VANITY BOX. THOMAS F. SLATER, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Dec. 9, 1922. Serial No. 4,553. Term of patent 7 years.



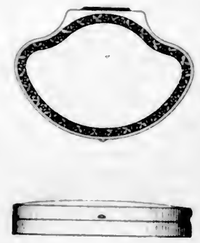
The ornamental design for a vanity box, as shown and described.

63,502. VANITY BOX. THOMAS F. SLATER, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Dec. 9, 1922. Serial No. 4,554. Term of patent 7 years.



The ornamental design for a vanity box, as shown and described.

63,503. VANITY BOX. THOMAS F. SLATER, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Dec. 9, 1922. Serial No. 4,555. Term of patent 7 years.



The ornamental design for a vanity box, as shown and described.

63,504. VANITY BOX. THOMAS F. SLATER, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Dec. 9, 1922. Serial No. 4,556. Term of patent 7 years.



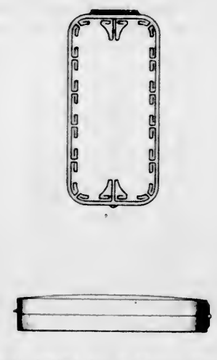
The ornamental design for a vanity box, as shown and described.

63,505. VANITY BOX. THOMAS F. SLATER, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Dec. 9, 1922. Serial No. 4,557. Term of patent 7 years.



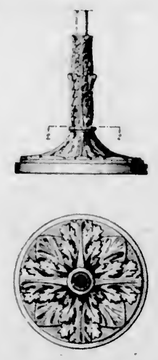
The ornamental design for a vanity box, as shown and described.

63,506. VANITY BOX. THOMAS F. SLATER, Waterbury, Conn, assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Dec. 9, 1922. Serial No. 4,558. Term of patent 7 years.



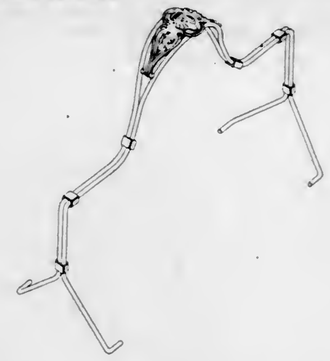
The ornamental design for a vanity box, as shown and described.

63,507. PEDESTAL FOR DISPLAY FIXTURES. SAMUEL SOBEL, Seagate, N. Y. Filed May 12, 1923. Serial No. 6,147. Term of patent 3½ years.



The ornamental design for a pedestal for display fixtures, substantially as shown.

63,508. HANDLE. HERMAN SOMERFLECK, Brooklyn, N. Y. Filed June 29, 1923. Serial No. 6,626. Term of patent 3½ years.



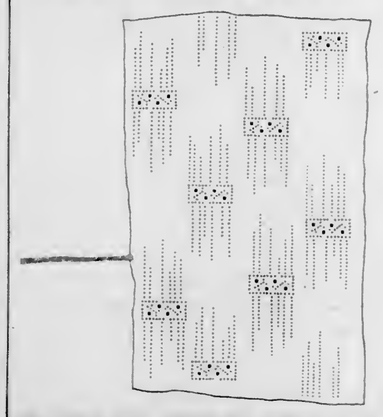
The ornamental design for a handle as shown.

63,509. TOY. FERDINAND STRAUSS, New York, N. Y. Filed Apr. 21, 1923. Serial No. 5,883. Term of patent 7 years.



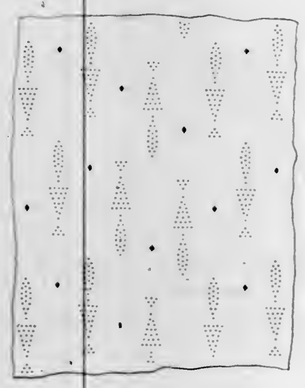
The ornamental design for a toy, as shown.

63,510. FLOCKED VOILE FABRIC. EDWARD B. VANDERGAW, Brooklyn, and JULES HEINRICH, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y., a Corporation of New York. Filed July 6, 1923. Serial No. 6,689. Term of patent 3½ years.



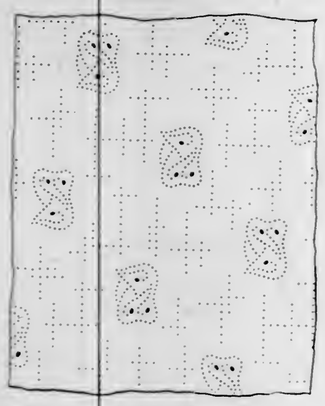
The ornamental design for flocked voile fabric, as shown.

63,511. FLOCKED VOILE FABRIC. EDWARD B. VANDERGAW, Brooklyn, and JULES HEINRICH, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y., a Corporation of New York. Filed July 6, 1923. Serial No. 6,690. Term of patent 3½ years.



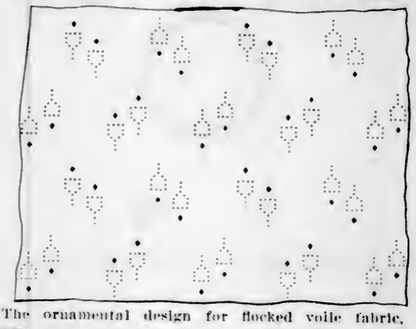
The ornamental design for flocked voile fabric, as shown.

63,512. FLOCKED VOILE FABRIC. EDWARD B. VANDERGAW, Brooklyn, and JULES HEINRICH, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y., a Corporation of New York. Filed July 6, 1923. Serial No. 6,694. Term of patent 3½ years.



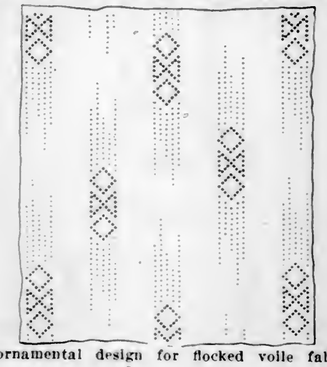
The ornamental design for flocked voile fabric, as shown.

63,513. FLOCKED VOILE FABRIC. EDWARD B. VANDERGAW, Brooklyn, and JULES HEINRICH, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y., a Corporation of New York. Filed July 6, 1923. Serial No. 6,696. Term of patent 3½ years.



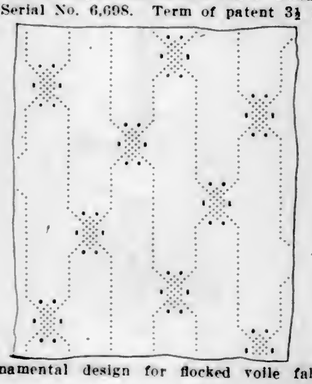
The ornamental design for flocked voile fabric, as shown.

63,514. FLOCKED VOILE FABRIC. EDWARD B. VANDERGAW, Brooklyn, and JULES HEINRICH, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y., a Corporation of New York. Filed July 6, 1923. Serial No. 6,697. Term of patent 3½ years.



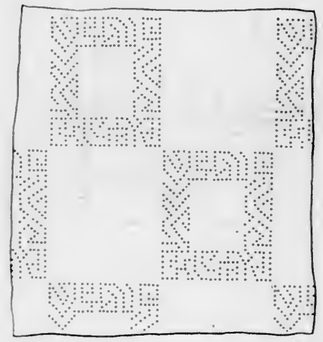
The ornamental design for flocked voile fabric, as shown.

63,515. FLOCKED VOILE FABRIC. EDWARD B. VANDERGAW, Brooklyn, and JULES HEINRICH, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y., a Corporation of New York. Filed July 6, 1923. Serial No. 6,698. Term of patent 3½ years.



The ornamental design for flocked voile fabric, as shown.

63,516. FLOCKED VOILE FABRIC. EDWARD B. VANDERGAW, Brooklyn, and JULES HEINRICH, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y., a Corporation of New York. Filed July 6, 1923. Serial No. 6,699. Term of patent 3½ years.



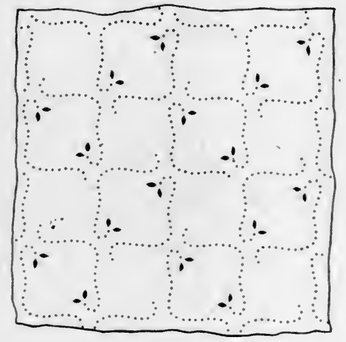
The ornamental design for flocked voile fabric, as shown.

63,517. FLOCKED VOILE FABRIC. EDWARD B. VANDERGAW, Brooklyn, and JULES HEINRICH, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y., a Corporation of New York. Filed July 6, 1923. Serial No. 6,700. Term of patent 3½ years.



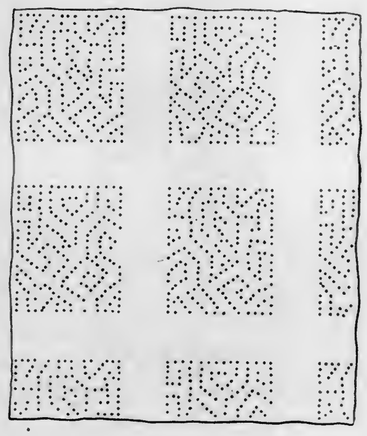
The ornamental design for flocked voile fabric, as shown.

63,518. FLOCKED VOILE FABRIC. EDWARD B. VANDERGAW, Brooklyn, and JULES HEINRICH, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y., a Corporation of New York. Filed July 6, 1923. Serial No. 6,707. Term of patent 3½ years.



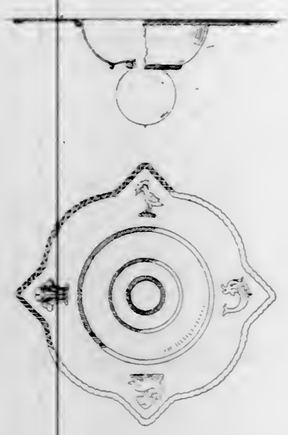
The ornamental design for flocked voile fabric, as shown.

63,519. FLOCKED VOILE FABRIC. EDWARD B. VANDERGAW, Brooklyn, and JULES HEINRICH, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y., a Corporation of New York. Filed July 6, 1923. Serial No. 6,708. Term of patent 3½ years.



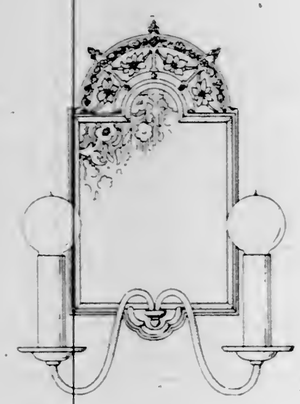
The ornamental design for flocked voile fabric, as shown.

63,520. CEILING PLATE FOR LIGHTING FIXTURES. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 24, 1922. Serial No. 1,931. Term of patent 7 years.



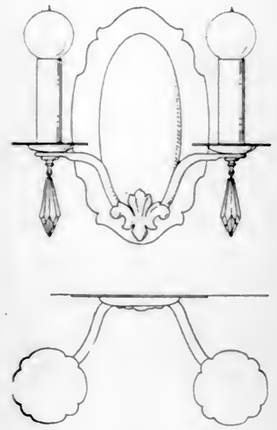
The ornamental design for a ceiling plate for lighting fixtures, as shown.

63,521. BRACKET FOR LIGHTING FIXTURES. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 24, 1922. Serial No. 1,932. Term of patent 7 years.



The ornamental design for a bracket for lighting fixtures, as shown.

63,522. BRACKET FOR LIGHTING FIXTURES. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 24, 1922. Serial No. 1,933. Term of patent 7 years.



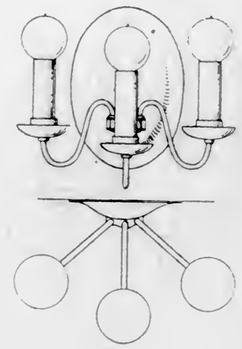
The ornamental design for a bracket for lighting fixtures, as shown.

63,523. LIGHTING FIXTURE. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 24, 1922. Serial No. 1,934. Term of patent 7 years.



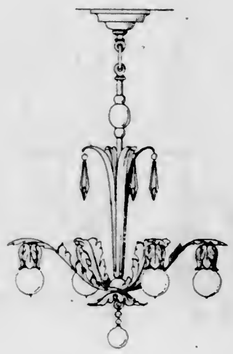
The ornamental design for a lighting fixture, as shown.

63,524. BRACKET FOR LIGHTING FIXTURES. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 24, 1922. Serial No. 1,936. Term of patent 7 years.



The ornamental design for a bracket for lighting fixtures, as shown.

63,525. LIGHTING FIXTURE. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 24, 1922. Serial No. 1,937. Term of patent 7 years.



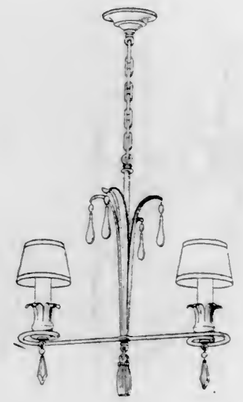
The ornamental design for a lighting fixture, as shown.

63,526. CANDLESTICK FOR LIGHTING FIXTURES. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 24, 1922. Serial No. 1,938. Term of patent 7 years.



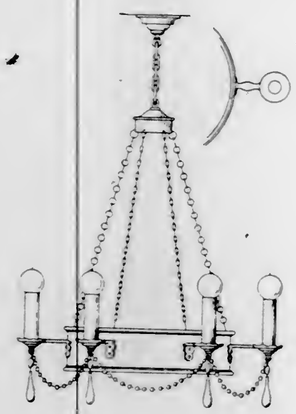
The ornamental design for a candlestick for lighting fixtures, as shown.

63,527. LIGHTING FIXTURE. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 24, 1922. Serial No. 1,939. Term of patent 7 years.



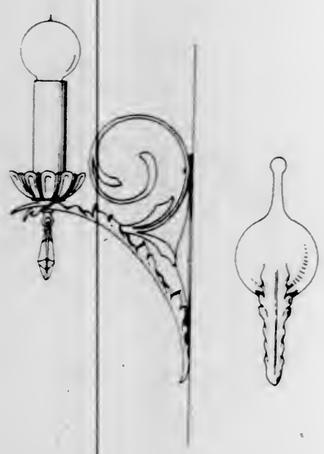
The ornamental design for a lighting fixture, as shown.

63,528. LIGHTING FIXTURE. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 24, 1922. Serial No. 1,940. Term of patent 7 years.



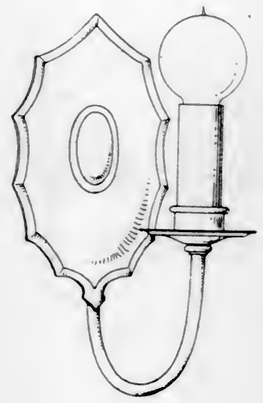
The ornamental design for a lighting fixture, as shown.

63,529. BRACKET FOR LIGHTING FIXTURES. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 24, 1922. Serial No. 1,941. Term of patent 7 years.



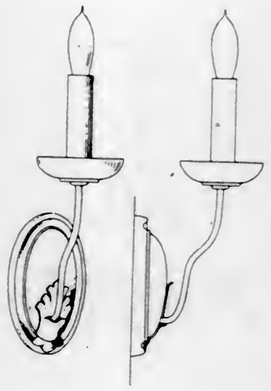
The ornamental design for a bracket for lighting fixtures, as shown.

63,530. BRACKET FOR LIGHTING FIXTURES. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 24, 1922. Serial No. 1,942. Term of patent 7 years.



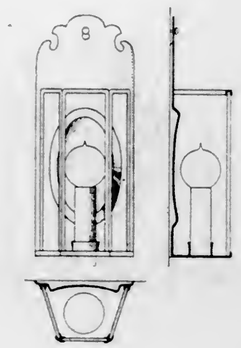
The ornamental design for a bracket for lighting fixtures, as shown.

63,531. BRACKET FOR LIGHTING FIXTURES. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 27, 1922. Serial No. 1,977. Term of patent 7 years.



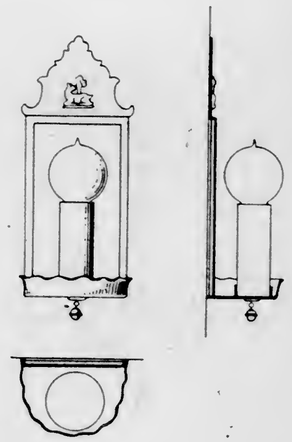
The ornamental design for a bracket for lighting fixtures, as shown.

63,532. LIGHTING FIXTURE. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 27, 1922. Serial No. 1,978. Term of patent 7 years.



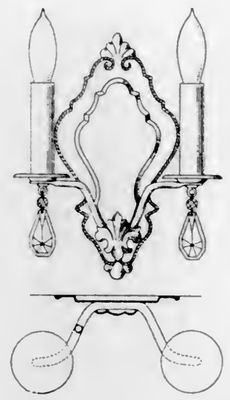
The ornamental design for a lighting fixture, as shown.

63,533. LIGHTING FIXTURE. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 27, 1922. Serial No. 1,979. Term of patent 7 years.



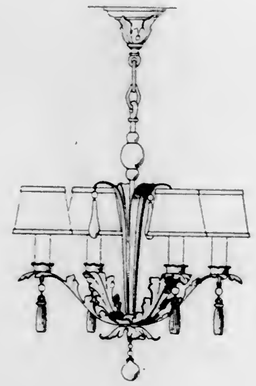
The ornamental design for a lighting fixture as shown.

63,534. LIGHTING FIXTURE. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 27, 1922. Serial No. 1,980. Term of patent 7 years.



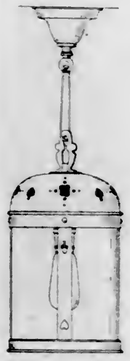
The ornamental design for a lighting fixture as shown.

63,535. LIGHTING FIXTURE. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 27, 1922. Serial No. 1,981. Term of patent 7 years.



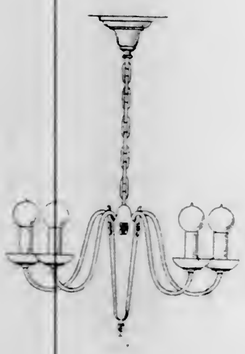
The ornamental design for a lighting fixture as shown.

63,536. LIGHTING FIXTURE. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 27, 1922. Serial No. 1,982. Term of patent 7 years.



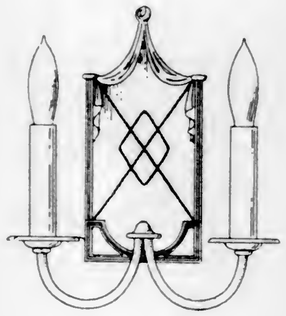
The ornamental design for a lighting fixture, as shown.

63,537. LIGHTING FIXTURE. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 27, 1922. Serial No. 1,983. Term of patent 7 years.



The ornamental design for a lighting fixture as shown.

63,538. LIGHTING FIXTURE. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 27, 1922. Serial No. 1,985. Term of patent 7 years.



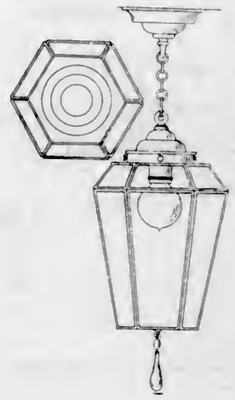
The ornamental design for a lighting fixture, as shown.

63,539. LIGHTING FIXTURE. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 27, 1922. Serial No. 1,986. Term of patent 7 years.



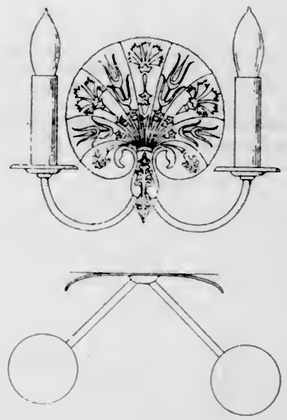
The ornamental design for a lighting fixture, as shown.

63,540. LIGHTING FIXTURE. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 27, 1922. Serial No. 1,987. Term of patent 7 years.



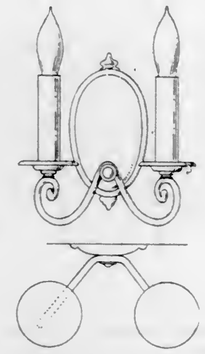
The ornamental design for a lighting fixture, as shown.

63,541. LIGHTING FIXTURE. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 27, 1922. Serial No. 1,988. Term of patent 7 years.



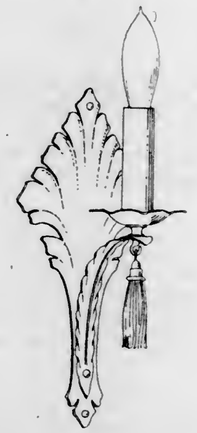
The ornamental design for a lighting fixture, as shown.

63,542. LIGHTING FIXTURE. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 27, 1922. Serial No. 1,989. Term of patent 7 years.



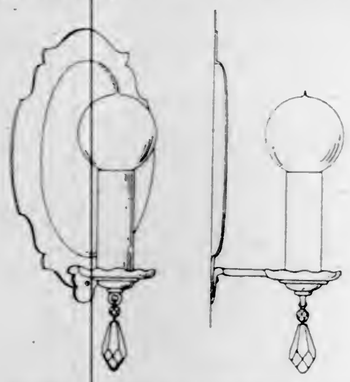
The ornamental design for a lighting fixture, as shown.

63,543. BRACKET FOR LIGHTING FIXTURES. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 27, 1922. Serial No. 1,990. Term of patent 7 years.



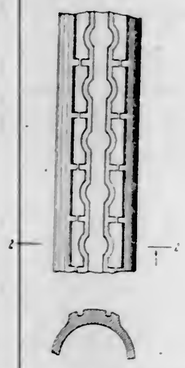
The ornamental design for a bracket for lighting fixtures, as shown.

63,544. BRACKET FOR LIGHTING FIXTURES. PERCY S. WARMAN, Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 27, 1922. Serial No. 1,991. Term of patent 7 years.



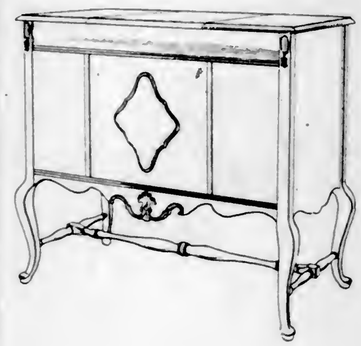
The ornamental design for a bracket for lighting fixtures, as shown.

63,545. TIRE TREAD. JOSEPH J. WISNIOWSKI, Chicopee, Mass. Filed July 11, 1923. Serial No. 6,756. Term of patent 7 years.



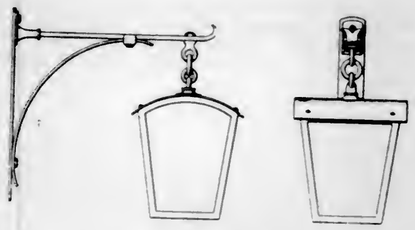
The ornamental design for a tire tread, as shown.

63,546. PHONOGRAPH CABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora, Inc., a Corporation of New York. Filed Jan. 10, 1922. Serial No. 151. Term of patent 7 years.



The ornamental design for a phonograph cabinet, substantially as shown.

63,547. LANTERN. HERMAN H. WOLTER, Meriden, Conn., assignor to Edward Miller & Company, Meriden, Conn., a Corporation of Connecticut. Filed July 5, 1923. Serial No. 6,687. Term of patent 7 years.

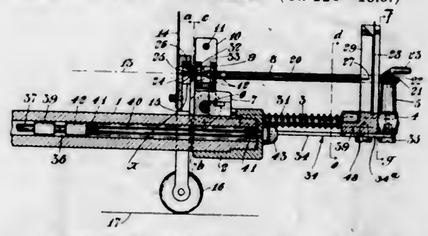


The ornamental design for a lantern as shown.

PATENTS

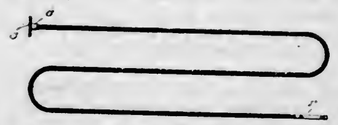
GRANTED DECEMBER 11, 1923.

1,476,676. TARGET-PRACTICE APPARATUS. EINAR ERIK ALM, Stockholm, Sweden. Filed Mar. 4, 1922. Serial No. 541,231. 17 Claims. (Cl. 124—15.5.)



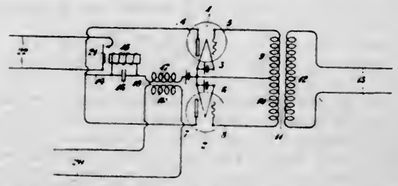
1. A target practice apparatus for use with firearms including a target holder, a target supported thereby, a recording device including a recording member, means movably connecting said target holder to said recording device, and means connecting the recording member with the target holder, the connection between the rifle and the target holder on the one hand and the rifle and the recording device on the other hand being such that the deflections and turning movements of the rifle during sighting will practically not be imparted to the target holder, whereas said movements are imparted to the recording device, and the recording member of the recording device being held by the target holder during said movements.

1,476,677. SHOE LACE. JUSTO ALVAREZ, Flushing, N. Y. Filed Dec. 4, 1922. Serial No. 604,852. 1 Claim. (Cl. 24—43.)



A shoe lace having at one end a frayed portion and a button made up of two metallic disks, one of the disks being apertured and provided with a lateral central tube receiving a part of the lace, and the other disk being applied to the side of the first-named disk and the said end portion of the lace being frayed and housed between the disks, remote from the tube and being provided with a circumferential fastening flange straddling the peripheral portion of the first-named disk whereby the disks are connected together and the lace is permanently secured to the disks.

1,476,678. DEMODULATING APPARATUS. HERMAN A. AFFEL, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 31, 1920. Serial No. 434,226. 9 Claims. (Cl. 179—171.)



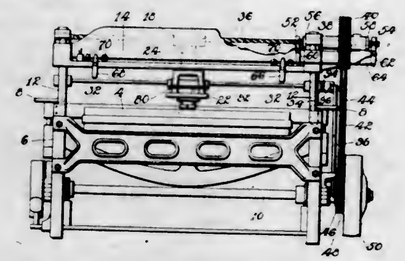
1. A demodulating apparatus comprising a pair of balanced detecting elements, the circuits of said detecting elements having a common branch, and means in said common branch responsive to the detected low frequency signaling current and to the unmodulated carrier wave.

1,476,679. BOX-COVER FASTENER. HENRY APPEL, Plainview, Minn. Filed Oct. 27, 1922. Serial No. 597,321. 3 Claims. (Cl. 217—56.)



1. A box cover fastener comprising clips depending from the cover and spring retracted fastening bolts carried by the box and provided at their upper end with hooks adapted to engage said clips when the cover is in position, and other smaller or secondary springs arranged at right angles with the fastening bolts with their outer ends engaging the latter, said last mentioned springs assisting in preventing casual disengagement of the fastening bolts with the clips.

1,476,680. PRESS. MILTON H. BALLARD, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 29, 1920. Serial No. 420,421. 31 Claims. (Cl. 164—23.)



1. In a machine of the class described, a work supporting bed, a presser member, starting means for the machine movable with the presser member, a vertical post for rotatably supporting the presser member and arranged for movement lengthwise of the bed, and means controlled by the starting means for causing reciprocation of the presser member toward and from the work supporting bed.

1,476,681. ADJUSTABLE GAUGE. JOHN BATH, Worcester, and WALTER E. GRAY, Hyde Park, Mass., assignors to John Bath & Co., Inc., a Corporation of Massachusetts. Filed May 27, 1919. Serial No. 300,053. 18 Claims. (Cl. 33—178.)

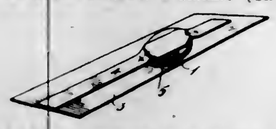
1. An adjustable gauge having, in combination, a support, a threaded shaft mounted for rotation only in said support, a plurality of contact members, each having an inner face formed as a single surface inclined with re-

spect to the axis of the shaft, and a single collar threaded on said shaft and provided with axially extending grooves



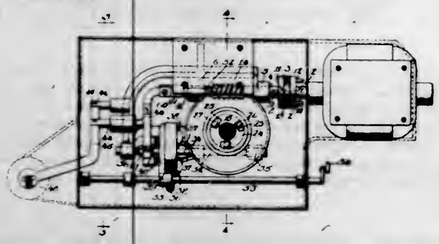
inclined with respect to said shaft and in which said members are closely slidable, said single collar forming the only radial support of said members.

1,476,682. CORN PLASTER. CARL BECKMANN, New York, N. Y., assignor to E. D. Anderson, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 2, 1919. Serial No. 286,926. 2 Claims. (Cl. 128—153.)



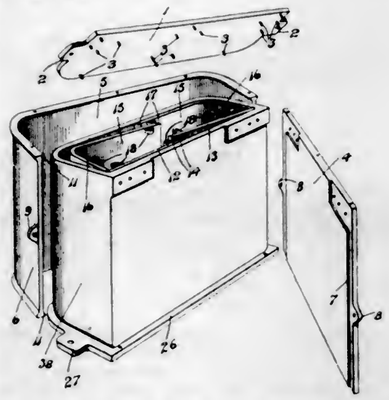
1. A corn plaster comprising an apertured pad containing a medicament, a strip of impervious material on one side of the pad protecting the latter and the medicament, and an elongated adhesive tape on the other side of the pad projecting therefrom on opposite sides and adhering to the strip, said tape extending over the medicament.

1,476,683. MOTOR. JOSEPH W. BISHOP, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Sept. 29, 1921. Serial No. 504,096. 12 Claims. (Cl. 188—187.)



5. In a device of the class described, a motor, a spindle, a transmission between said motor and spindle including a worm adapted to have a limited longitudinal movement, a brake adapted to retard the rotation of said spindle, means normally holding the worm against longitudinal movement, means operated by the longitudinal movement of the worm for applying said brake, and separate means for adjusting the brake.

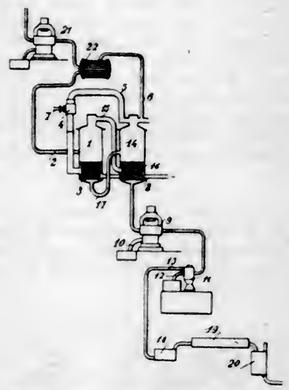
1,476,684. FLUSH-TANK MOLD. FRANK A. BLACK, Detroit, and FRED D. STANLY, Grand Rapids, Mich. Filed June 13, 1921. Serial No. 477,329. 4 Claims. (Cl. 25—130.)



2. A construction containing the elements in combination defined in claim 4, said cover plate for the shell having three openings therethrough, and a plug filling each of two of the openings and provided at its lower end with a pin passing through the core cover plate, substantially as described.

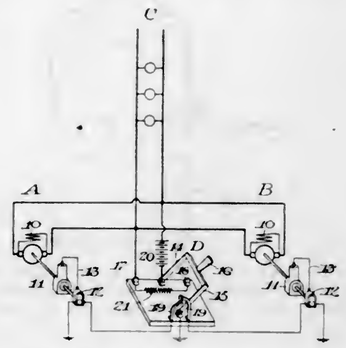
4. A core for a mold comprising two back plate sections having adjacent edges bevelled and overlapping, a button on one section mounted to turn and pass in front of the adjacent portion of the other section, two combined front and side sections also having adjacent edges bevelled and overlapping, a button on the front section of one of said members likewise adapted to be turned to pass across to the other section, bars detachably connected at their ends to and disposed between the front and back of the core, and a cover plate for the core detachably secured in fixed relation thereto, substantially as described.

1,476,685. PROCESS FOR THE TREATMENT OF RESIDUAL WATERS. CHARLES BOUILLON, Paris, France. Filed June 29, 1920. Serial No. 392,876. 5 Claims. (Cl. 210—9.)



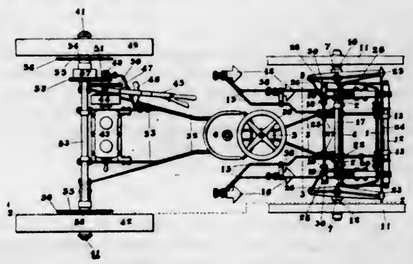
1. A process of treating residual waters containing greasy and soapy matters, consisting in first concentrating the waters by evaporation, compressing the steam derived from the evaporation and then centrifugalizing the concentrated residual waters to separate the soapy waters from the greases, the evaporation and centrifugation taking place at a temperature higher than the solidifying temperature of the grease.

1,476,686. MULTIPLE-UNIT SYSTEM OF ENGINE-DRIVEN GENERATORS. ANTON FRANK BROTZ, Kohler, Wis., assignor to Kohler Company, Kohler, Wis., a Corporation of Wisconsin. Filed Jan. 6, 1922. Serial No. 527,372. 3 Claims. (Cl. 290—4.)



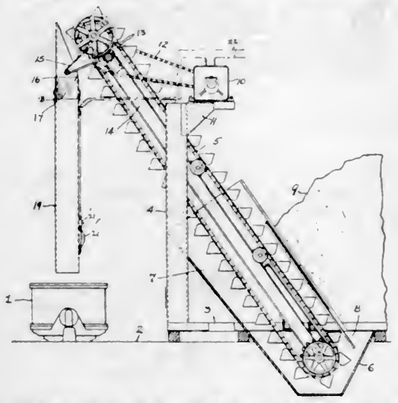
1. A multiple unit system of gas engine driven generator units comprising a plurality of gas engine driven generator units connected in parallel with service mains, a battery of lower voltage than the generators, a charging resistance, a switch for connecting the battery across the terminals of the generators whereby the generators operate as motors for starting their gas engines when the switch is moved to one position and for connecting the battery across the terminals of the generators in series with the charging resistance when the switch is moved to another position, and engine disabling means for the engines of the generator units controlled by the switch in another position.

1,476,687. MOTOR CULTIVATOR. THEOPHILUS BROWN, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed July 3, 1917. Serial No. 178,389. 5 Claims. (Cl. 97—47.)



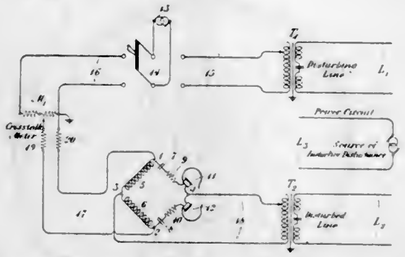
1. A power propelled tillage implement having in combination a front frame, one or more dirigible wheels supporting said frame, a plurality of gangs of cultivating devices held in constant parallelism with each other on the said frame and with the paths of the wheels and adapted to be optionally swung laterally, a second frame adjustably connected to the rear of the cultivator frame, means for angularly adjusting said frames for steering the implement, power-driven frame-pushing devices mounted on the second frame and engaging with the ground at a transverse line in the rear of the said dirigible wheels and of the cultivating devices, and means connecting the dirigible wheels and the gangs, whereby, when the gangs are being pushed from the rear and are being shifted laterally the dirigible wheels are simultaneously steered.

1,476,688. FLASK-FILLING MACHINE. EDWIN S. CARMAN, East Cleveland, Ohio, assignor to The Osborn Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 8, 1922. Serial No. 566,889. 3 Claims. (Cl. 198—43.)



1. In a machine for filling sand in flasks and the like, the combination of an inclined elevating conveyor, an electric motor for operating said conveyor, a shiftable pendent chute supported at the upper end of said conveyor, said chute being arranged to receive the material discharged from said conveyor, a handle on said chute for oscillating same, and a switch for controlling said motor associated with said handle, said switch being located so as to be operable by the same hand wherewith said handle is held.

1,476,689. ELECTRICAL TESTING SYSTEM. ARTHUR G. CHAPMAN, East Orange, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 6, 1921. Serial No. 520,398. 6 Claims. (Cl. 179—175.)

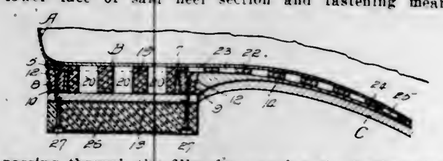


6. In an electrical testing system, the combination of a disturbing circuit, a disturbed circuit, a source of foreign electromotive force capable of inducing current in the said disturbed circuit, a source of testing electromotive force, a universal shunt, a Wheatstone network having a current indicating means associated therewith connected with the said universal shunt and the said disturbed circuit, and switching means to connect the said source of testing electromotive force with either the said disturbing circuit or with the said universal shunt.

1,476,690. COMBINED CUSHION SHOE HEEL AND ARCH SUPPORT. ABRAHAM COHN, St. Louis, Mo. Filed Sept. 5, 1922. Serial No. 586,190. 9 Claims. (Cl. 36—35.)

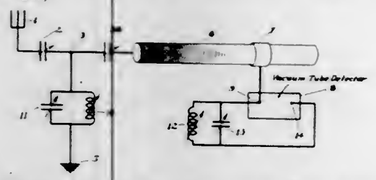
1. In combination with a shoe, boot or slipper, a heel comprising a metallic heel section having a central opening and provided with a marginal recess in its up-

per face, a filler for said recess, a leather plate for the lower face of said heel section and fastening means



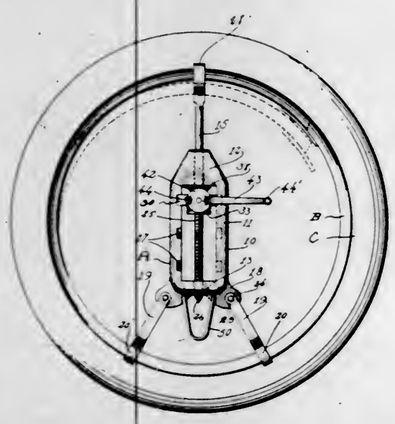
passing through the filler for securing the leather plate to said heel section.

1,476,691. ELECTRICAL SIGNALING. LOUIS COHEN and JOSEPH O. MAUBORGNE, Washington, D. C. Filed Jan. 26, 1921. Serial No. 440,203. 9 Claims. (Cl. 250—20.)



1. A system for radio signaling comprising an antenna, a condenser, a loop circuit and a ground connection constituting an antenna circuit, a wave coil connected to a point on said antenna circuit, a detector associated electrically with the said wave coil and an oscillating circuit associated with the said detector.

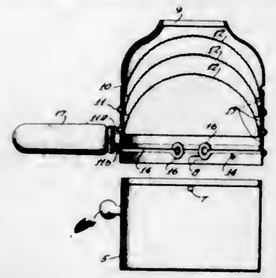
1,476,692. RIM TOOL AND WHEEL PULLER. HARRY W. CRANE, Bridesburg, Philadelphia, Pa. Filed Oct. 19, 1921. Serial No. 508,657. 14 Claims. (Cl. 29—85.)



1. A combined tool for use in connection with motor vehicles comprising a frame, pivoted hooks carried by one end of the frame, an adjustable bar carried by the frame, means for adjusting the bar, a hook formed on one end of the bar, and an axle or shaft engaging means formed on the opposite end of the bar.

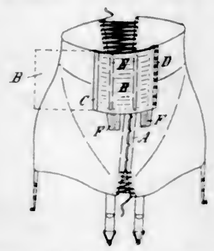
1,476,693. FLOUR-SIFTING UTENSIL. MILLICENT W. H. CROSSKILL, New York, N. Y. Filed Oct. 12, 1921. Serial No. 507,294. 3 Claims. (Cl. 83—60.)

1. A flour sifting utensil embodying a substantially cylindrical casing, one end of which is contracted in a substantially funnel shape forming a tapering discharge mouth, said casing being provided interiorly with an annular bead and also an annular channel spaced from the bead, a plurality of nested semiglobular screens positioned within the casing with one screen seated on



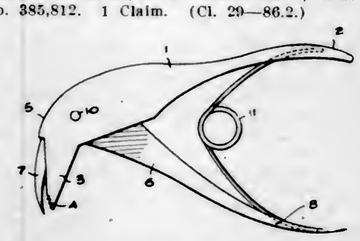
the annular bead and successive screens seated on the next preceding screen, and a split ring associated with the annular channel for maintaining the screens in position.

1,476,694. CORSET. MARGUERITE NORMA CROIZIER, Marseille, France. Filed Sept. 9, 1918. Serial No. 253,202. 1 Claim. Cl. 2—73.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



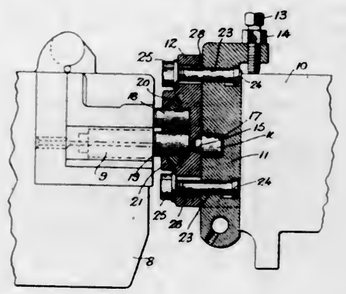
A corset having a waist portion, said corset comprising, in combination, a short busk disposed on the lower portion of the corset, said busk being of such a length that its upper extremity reaches a point below the waist portion only, and a flap of reinforced elastic fabric disposed above said busk and forming the upper fastening of the corset, said flap being provided with a plurality of pressure fasteners disposed on one of its vertical borders and said corset having cut-out portions provided with strips of elastic fabric adjacent to the upper extremity of the busk on each side of the latter.

1,476,695. COTTER-PIN PULLER. JUDSON C. DE GRAFF, Harrisville, N. Y. Filed June 1, 1920. Serial No. 385,812. 1 Claim. (Cl. 29—86.2.)



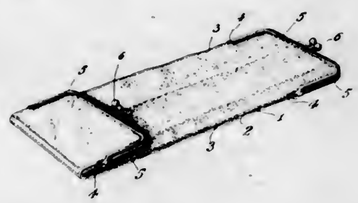
In a cotter pin puller, the combination with the pusher jaw and handle formed of a single stamped up sheet of metal, said jaw having a hooded head with a depending bifurcated portion with serrations at the extremities of the forward faces thereof, a puller jaw and handle pivotally connected in the hooded head of the pusher jaw portion and having a depending tine-like jaw formed thereon, the lower transverse edge of the hooded head of the pusher jaw portion constituting a stop for limiting the opening of the puller jaw portion.

1,476,696. SWIVEL BLOCK. HAROLD P. DEELY, Waterbury, Conn. Filed Aug. 20, 1921. Serial No. 493,841. 2 Claims. (Cl. 10—26.)



1. A die block holder for heading machines comprising a supporting member formed with a recess therein, a die holder formed with a recess therein, a removable pin fitting within said recesses and pivotally mounting the die holder on said supporting member, bolts for clamping the die holder to said supporting member, and screws for adjusting the die holder on said supporting member, substantially as set forth.

1,476,697. PENCIL PURSE. FRANCIS P. DWYER, Philadelphia, Pa., assignor to Travelight Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 11, 1922. Serial No. 593,713. 3 Claims. (Cl. 150—35.)



1. A pencil purse comprising a rectangular body formed of flexible material and open at its opposite ends, a row of stitching extending across the body of said pencil purse to divide the same into two compartments and said stitching positioned nearer one end of the body than the other so that one compartment will be relatively longer than the other, locking means comprising frames secured to the outer ends of said body for repeatedly closing and locking the said compartments, and the shorter compartment adapted to fold over onto the longer compartment and the fold occurring along the row of stitching.

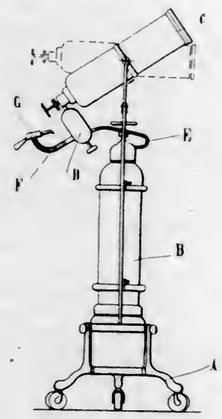
1,476,698. DRAW SPIKE. THOMAS C. EKLAND, Washington, Pa. Filed Nov. 10, 1922. Serial No. 600,145. 1 Claim. (Cl. 22—186.)

A pattern-lifting-screw, consisting of the screw proper threaded on its lower end and a suitable handle formed on its upper end, an adjustable plate mounted on said screw and provided with a set-screw for securing said plate



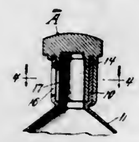
rigidly in position on said screw, all substantially as shown and for the purposes described.

1,476,699. APPARATUS FOR PRODUCING LOCAL ANÆSTHESIA. FRANÇOIS JOSEPH FABRET, Nice, France. Filed Dec. 8, 1920. Serial No. 429,194. 6 Claims. (Cl. 128—256.)



1. Apparatus for producing local anæsthesia, comprising an oxygen tank; a blow pipe; a connection between the oxygen tank and the blow pipe for supplying oxygen from the former to the latter to be discharged against the tissues to be anæsthetized; means for heating the current of oxygen to be discharged; and a device arranged in the path of the oxygen for refrigerating the same by the evaporation of a liquid gas.

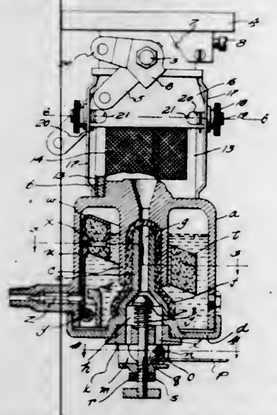
1,476,700. CONTAINER CAP. MAX FELDSTEIN, Chicago, Ill. Filed Jan. 3, 1922. Serial No. 526,671. 9 Claims. (Cl. 221—60.)



1. A container cap of the character described comprising movably cooperating neck and cap elements having regis-

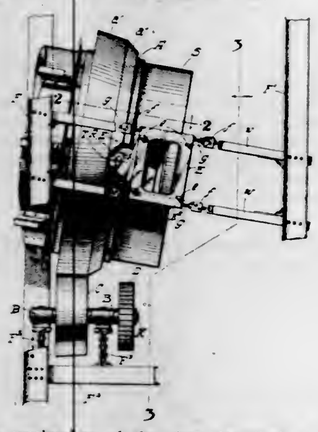
trable wall outlets, one of said elements being a cylindrical wall member and the other having inner and outer walls closely engaging the single wall member.

1,476,701. CARBURETOR. CLAUDE E. FLEMING, Detroit, Mich. Filed Oct. 25, 1920. Serial No. 419,261. 4 Claims. (Cl. 261—107.)



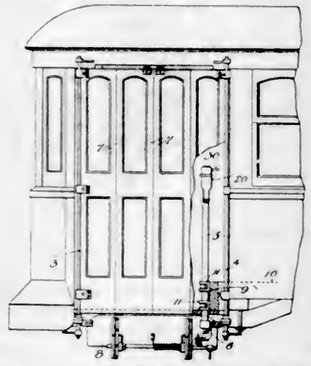
3. In a carburetor, the combination of a casing divided into a mixing chamber and a fuel reservoir connected by a passageway, a wick completely filling parts of said passageway so as to choke the same and prevent passage of fuel except that fed through the wick said casing provided with a port for delivering the air directly into the mixing chamber and with a tube of relatively small air delivering capacity for delivering air to the wick so as to cause the same to pass through the wick before entering the mixing chamber, and means for regulating the amount of air admitted to the air tube under normal running conditions including devices for permitting an unusually large amount of air to enter the tube for starting said devices permitting the parts to return to the normal position of adjustment for running after starting.

1,476,702. DRUM OR SCREEN DRIVE AND SUPPORTING MEANS. WALTER FERRIS, Milwaukee, Wis., assignor to Bucyrus Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 9, 1922. Serial No. 535,399. 11 Claims. (Cl. 259—3.)



1. In a mechanism of the class described, a member rotatable on a predetermined axis and urged in one direction longitudinally of said axis, an annular guide track carried by the member, said track having a bearing face disposed obliquely of said axis, a stationary thrust roller mount disposed adjacent the track, a thrust roller journaled in the mount and engaging the track face, and means for adjusting the mount parallel to the axis of the rotatable member to move the roller toward and away from the track face, said roller receiving the side and end thrusts of the member.

1,476,703. DOOR-OPERATING MECHANISM. PARIS R. FORMAN, Chicago, Ill., assignor to National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed Aug. 23, 1917. Serial No. 187,903. 1 Claim. (Cl. 268—7.)



In a car, the combination with a platform, a doorway, for said platform, a door for said doorway, connections between said door to a point on said platform at a distance from said doorway, a shaft for controlling said connections extending vertically from said platform a hollow standard for enclosing said shaft, a gear located at the end of said shaft and secured thereto to rotate therewith, a rack bar meshing with said gear, said rack forming a connecting rod between the pistons of a fluid pressure actuated motor said motor being supported by said standard, and means for controlling said motor.

1,476,704. ENGINE EXHAUST MEANS. WILLIAM H. FULTON, Irvington, N. J., assignor to Titeflex Metal Hose Corporation, a Corporation of New York. Filed Apr. 13, 1921. Serial No. 461,061. 9 Claims. (Cl. 137—160.)

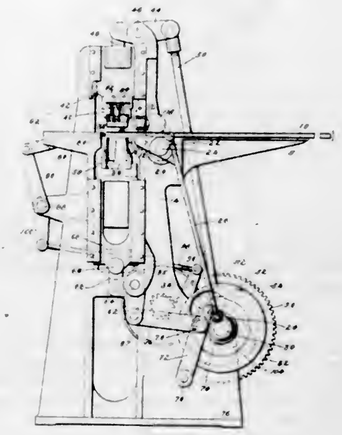


1. The combination with an engine having an exhaust port, of a bendable conduit receiving the gases from said port, said conduit having a helically disposed strip with the edges of adjacent convolutions interfolded, there being clearances between the interfolded parts permitting relative sliding thereof and the bending of the tube, and a helically disposed metal wire capable of withstanding the temperature of the exhaust gases interposed between the interfolded parts to form a packing in the sliding joint between adjacent convolutions.

1,476,705. PROCESS FOR PERMANENT EMBOSSMENT OF CLOTH OF ANIMAL FIBER. HATCHIRO FUNASAKA, Kyoto, Japan. Filed Dec. 1, 1921. Serial No. 519,099. 3 Claims. (Cl. 26—2.)

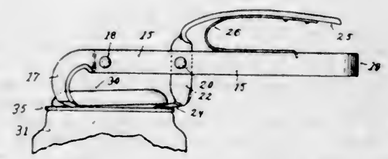
1. The process of embossing cloth made of animal fiber, which consists in treating the cloth with a solution of sulphocyanate of potash, and then subjecting the cloth under pressure to the action of a heated member having the required design engraved thereon.

1,476,706. CUTTING OF SHEET MATERIAL. FREDERICK M. FURBER, Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 26, 1920. Serial No. 376,629. 28 Claims. (Cl. 164—22.)



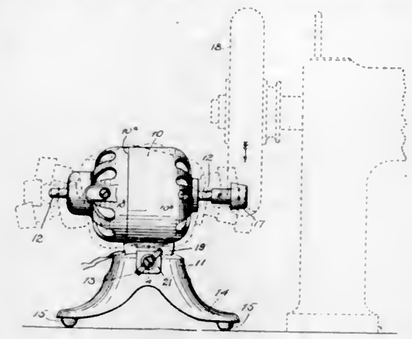
1. In a machine of the class described, a plurality of cutting means each having spaced cutting edges and arranged to operate alternately on opposite sides of sheet material to cut blanks therefrom, and means for forcing all the blanks cut from the material into the space between the cutting edges of one of the cutting means.

1,476,707. JAR OPENER. WALTER J. GALLAGHER, Cincinnati, Ohio. Filed Mar. 15, 1922. Serial No. 544,048. 4 Claims. (Cl. 81—3.1.)



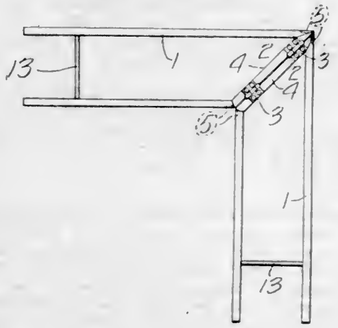
1. An article of manufacture comprising a first member having a pair of divergent downwardly directed claws at one end to engage one fraction of the exterior of a curved article and provided at its opposite end with a handle, and a second member pivotally connected to said first member at substantially the middle portion thereof and having a downwardly directed claw at one end to engage an opposite fraction of the exterior of said curved article to engage a jar rubber to break the seal and a handle located above the handle of said first member and adapted to be grasped simultaneously with and forced toward the handle of said first member to force said claws toward each other.

1,476,708. ELECTRIC MOTOR. ALFRED C. GILBERT, New Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Filed Nov. 26, 1917. Serial No. 203,974. 20 Claims. (Cl. 74—26.)



16. In an electric motor, a base having a socket, and a motor member having a projecting lug fitting said socket, the contacting surfaces of the lug and socket being shaped to provide for a tilting movement of the motor relatively to the base in one plane only.

1,476,709. FOLDING WASHBENCH. HENRY GILLMANN, St. Louis, Mo. Filed Mar. 25, 1922. Serial No. 546,848. 1 Claim. (Cl. 68—35.)

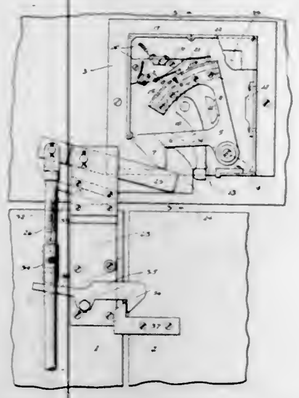


A foldable wash bench comprising two elongated tub frames arranged substantially at right angles to each other at one end of each, said ends having oblique terminals lying side by side and hinged together on an axis in the plane of the tops of said frames, and supporting legs foldably mounted beneath the frames.

1,476,710. ELEVATOR DOOR LOCK. JAMES GIRTEN, Chicago, Ill. Filed Dec. 19, 1921. Serial No. 523,266. 11 Claims. (Cl. 187—31.)

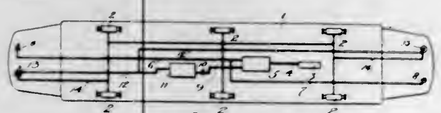
5. A device of the character described comprising a latching member, means with which said latching member normally engages for holding a door against movement; means for unseating said latching member; means for retaining said latching member in unseated position; means whereby said latching member is released from said retaining means by engagement of said holding means; an extension on said latching member having a plurality of contact means arranged therein and insulated one from the other; and a plurality of contact fingers arranged in the elevator operating cir-

cuit, and riding on said contact means, so that when the latching member is in operative position both of said fingers engage one of said contact means, and when



the latching member is in inoperative position one of said fingers engages one of said contact means and another of said fingers engages another of said contact means, substantially as described.

1,476,711. EMERGENCY DOOR-CONTROL APPARATUS. ALBERT GOTTSCHALK, New York, N. Y., assignor to National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed Dec. 16, 1922. Serial No. 607,450. 9 Claims. (Cl. 268—7.)



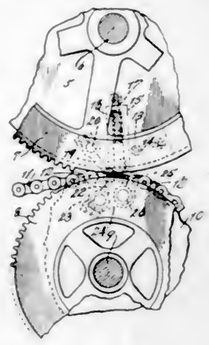
1. An emergency door operating mechanism comprising, in combination with a door and a motor therefor and a main pressure reservoir for supplying fluid pressure for the normal operation of said motor, an auxiliary reservoir, means for maintaining said auxiliary reservoir filled, and means for utilizing pressure from said auxiliary reservoir for actuating said door.

1,476,712. STRING TENSIONER FOR VIOLINS. EMIL F. HAFELFINGER, Weehawken, N. J. Filed Dec. 4, 1922. Serial No. 604,642. 14 Claims. (Cl. 84—302.)



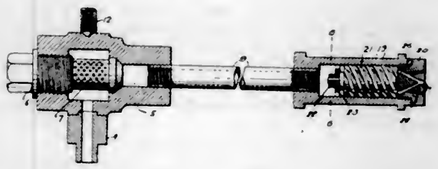
1. A string tensioner for musical instruments, including a bracket having a slot in one end thereof, a lever having a portion of reduced diameter disposed in the slot, the portions of the lever on opposite sides of said reduced portion serving to prevent movement of the lever in the slot back and forth through the plate, and a member secured to said bracket and having an aperture through which the lever extends, said member serving to prevent the lever from moving out of the open end of the slot.

1,476,713. CHAIN DELIVERY. CHARLES W. HARROLD, Cleveland, Ohio, assignor to The Harris Automatic Press Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 12, 1921. Serial No. 500,032. 12 Claims. (Cl. 271—79.)



1. In a delivery, a pair of coacting sheet-carriers and means mounted on one carrier to steady both carriers while transferring the sheet.

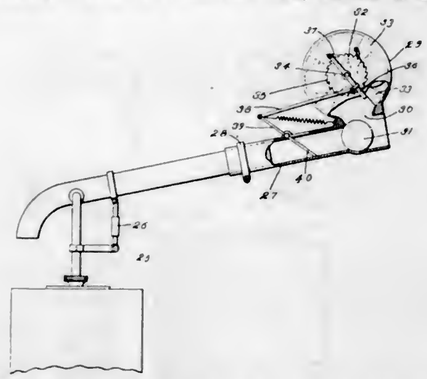
1,476,714. BURNER FOR UTILIZING MOLASSES AS A FUEL. PAUL G. HILDEBRANDT, Philadelphia, Pa., assignor to Black-Strap Fuel and Potash Products Company, a Corporation of Delaware. Original application filed June 26, 1919, Serial No. 306,804. Divided and this application filed Oct. 13, 1920. Serial No. 416,642. 2 Claims. (Cl. 158—75.)



1. In a burner for molasses fuel, the combination with a burner tube having an inlet and an outlet, an inner cylinder and an outer cylinder surrounding and concentric with and extending throughout the length of the burner tube, a spiral plate between and extending throughout the length of the two cylinders, said cylinders constituting an air chamber surrounding the burner and opening at the discharging end of the burner tube, whereby the molasses fuel flowing through said tube is protected by the air in said chamber from the direct heat of the furnace, in which the burner is positioned, and whereby air is discharged from such chamber and mixes at the discharging end of the burner tube with molasses and is burned therewith.

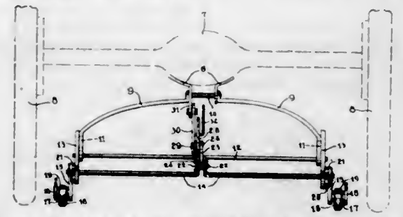
1,476,715. GUN. HILDING J. JOHNSON, Salt Lake City, Utah. Filed Nov. 16, 1920. Serial No. 424,555. 2 Claims. (Cl. 89—1.)

2. In a device of the character described, a gas containing tank, a tube supported above the gas containing tank and in communication therewith, a tube adjustably supported by the first mentioned tube, a grenade chamber supported at the outer end of the last mentioned tube, a rotatable grenade supporting member within the chamber, a ratchet wheel and shaft associated with the rotatable member, an arm extending into the last mentioned tube, an arm connected with the arm extending into the tube, means carried by the last mentioned arm and associated with the ratchet wheel for rotating the ratchet wheel and rotary member to dis-



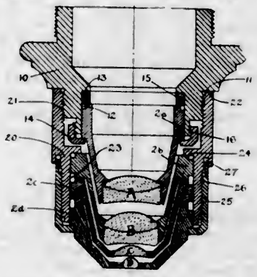
charge a grenade into the last mentioned tube, and the arm extending into the tube adapted to be operated by the expansion of gases within the tube.

1,476,716. ANTISKID DEVICE. WILLIAM KALMAN, Chicago, Ill. Filed Nov. 24, 1920. Serial No. 426,272. 12 Claims. (Cl. 188—5.)



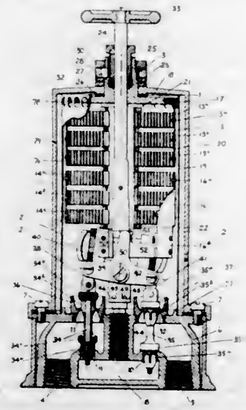
1. An anti-skid device comprising a supporting bracket adapted to be attached to a vehicle, anti-skid means connected to said bracket, means for operating said anti-skid members, said operating means including a pair of slotted elements, pins connecting said elements and operating in the slots in said elements and a spring connected to said pins, said means resiliently retaining said members in effective contact with an uneven roadway.

1,476,717. MOUNTED OPTICAL SYSTEM. EDMUND KANDLER and JOHN C. SABEL, Rochester, N. Y., assignors to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 6, 1920. Serial No. 401,587. 5 Claims. (Cl. 88—57.)



2. In a mounted lens system, a support comprising a pair of aligned tubular members each having an abutment for cooperation with the other and also an abutment for cooperation with a lens cell, a plurality of cells fitted within the bores of said members to position them concentric with the optical axis, abutments on said cells for positioning the same longitudinally of the optical axis, retaining means on each member for holding one or more cells in the bore thereof, and a removable spacing ring between said cell abutment of one of said members and the adjacent cell.

1,476,718. AUTOMATIC CONTROLLING VALVE. FREDERICK C. LEONARD, Providence, R. I., assignor to Leonard-Rooke Company, Providence, R. I. Filed Apr. 10, 1914, Serial No. 831,083. Renewed Mar. 29, 1919. Serial No. 286,079. 33 Claims. (Cl. 236—12.)

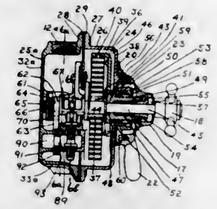


11. A thermostat of coil form constructed in sections, each of said sections comprising a plurality of coils.

23. The combination of a casing and a thermostat within said casing, comprising coils connected together and arranged in line with each other.

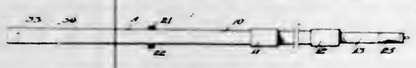
25. The combination of a casing provided with fluid inlets, a reciprocating valve for each of said inlets, a thermostat coil form within said casing connected by one end to said valves, and means for adjusting the position of said thermostat connected to the other end of said thermostat.

1,476,719. THERMOSTATIC VALVE. FREDERICK CHARLES LEONARD, Providence, R. I., assignor to Leonard-Rooke Company, Providence, R. I., a Corporation. Filed Feb. 10, 1921. Serial No. 443,796. 14 Claims. (Cl. 236—12.)



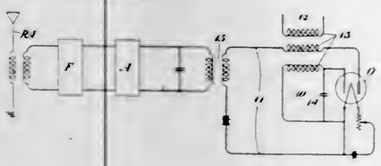
2. In combination in a thermostatic valve, a casing having a pair of inlet passages, a reciprocating valve for each of said passages, a thermostat of coil form housed within said casing, a shaft, a rocking member supported from said shaft and having a pair of similar and oppositely directed short arms and an intermediate radially directed arm, a short link connecting individually each of said short arms with a valve, and link mechanism serving as the means for operatively connecting said thermostat with said radially directed arm of the rocking member.

1,476,720. IMPLEMENT POLE. WILLIAM ALEXANDER LESLIE, Asquith, Saskatchewan, Canada. Filed May 10, 1922. Serial No. 559,888. 2 Claims. (Cl. 278—48.)



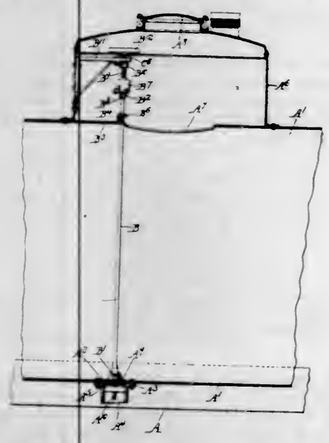
1. An implement pole comprising a hollow metal shank, a slidably mounted extension therein having its inner end threaded, a rod for said threaded end, a block in the shank connected to the other end of said rod and spring actuating means wound on said rod, slots in the shank and adjusting means extending through said slots to engage with the block whereby longitudinal movement of the extension is controlled.

1,476,721. FREQUENCY-CONTROL SYSTEM. DE LOSS K. MARTIN, Orange, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 23, 1921. Serial No. 517,335. 4 Claims. (Cl. 250—2.)



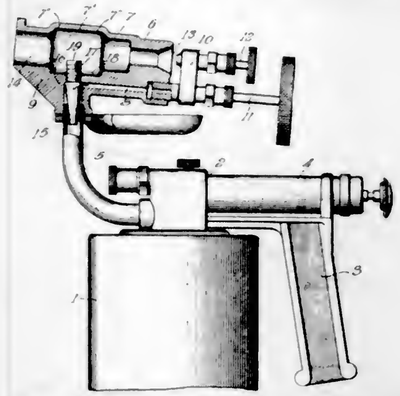
1. The method of producing synchronism between a locally generated frequency and a controlling frequency transmitted from a distant point, which consists in adjusting an oscillator so that it will normally produce a frequency in the neighborhood of the controlling frequency, transmitting the controlling frequency through a one-way device, and in impressing the controlling frequency thus passed upon the oscillator whereby the oscillator will oscillate in synchronism with the controlling frequency.

1,476,722. OPERATING MECHANISM FOR TANK-CAR OUTLET VALVES. CHARLES E. MILLER, Chicago, Ill. Filed Nov. 26, 1920. Serial No. 426,367. 20 Claims. (Cl. 137—21.)



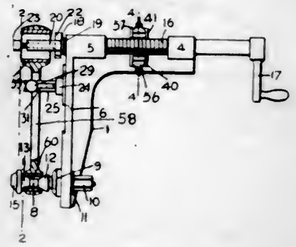
1. The combination with a valve and valve seat of means for simultaneously rotating and seating the valve, an elastic member interposed between the valve and seating means and adapted to be compressed when the valve is seated, and a universal joint connection between the valve and the elastic member.

1,476,723. PLUMBER'S TORCH. WILLIAM F. PAGEL, Sycamore, Ill. Filed Nov. 20, 1922. Serial No. 602,020. 7 Claims. (Cl. 158—33.)



7. In a liquid fuel burning device of the kind described, having a passage through which liquid fuel rises on its way to the burner, a tapered heat conducting projection extending downwardly and freely into said passage, the projection at its larger end metallically connected to the wall of the burner for receiving heat therefrom.

1,476,724. BORING MACHINE. AUGUST ERIC PEARSON, Toronto, Ontario, Canada. Filed Nov. 26, 1921. Serial No. 517,937. 6 Claims. (Cl. 77—2.)



1. In a boring machine a base comprising two arms set horizontally at right angles one to the other, a pair of longitudinally aligned bearings extending upward from one arm, a cutter shaft freely supported within the bearings and normally free to slide longitudinally and having a threaded portion located between the bearings, a pair of gripping levers extending at each side of such threaded portion and held normally out of engagement therewith and pivotally engaging the base at their lower ends, guides also extending at each side of the threaded portion of the shaft and forming part of the base, thread engaging members movable in the aforesaid guides and connected to the levers to be carried into and out of their thread engaging position, and means extending from the other arm of the base for carrying a link to be operated on by the cutter.

1,476,725. IGNITER FOR GASEOUS-FUEL BURNERS. HARRY CARL POPE and JAMES HARRY FIELDHOUSE, Los Angeles, Calif. Filed Nov. 16, 1921. Serial No. 515,521. 11 Claims. (Cl. 175—116.)

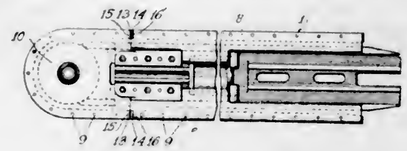
7. An igniter comprising a body having a longitudinal bore therethrough, a removable switch block positioned therein and provided with terminals, a movable and stationary electrode carried by said switch block, switches

interposed between the electrodes and terminals, means carried by the movable electrode and extending beyond the body for simultaneously moving said movable elec-



trode into contact with the stationary electrode and for closing the switches, and means for returning said movable electrode and said switches to their normal positions.

1,476,726. MINING MACHINE. THOMAS E. PRAY, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 3, 1921. Serial No. 489,517. 5 Claims. (Cl. 262—30.)



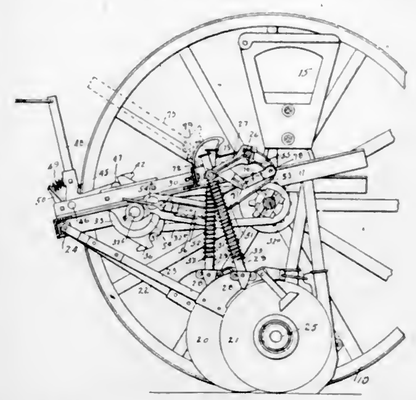
1. In a mining machine, a guide section having a marginal recess at one end, and a gib on said section having an end portion turned outwardly into said recess, with its end face substantially flush with the adjacent end surface of said guide section.

1,476,727. OIL-WELL PACKER. JAMES S. QUIGG, Dewey, Okla. Filed Aug. 1, 1922. Serial No. 578,876. 6 Claims. (Cl. 166—12.)



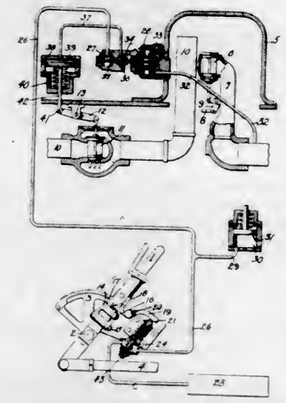
1. In a packing device for oil wells, the combination of a body member, an elastic sleeve thereon, a sleeve on the body member abutting one end of the elastic sleeve, a cone slidable on the body member and abutting the other end of said elastic sleeve, anchoring slips adapted to be expanded by said cone, and a rotatable means for causing the slips to be moved into expanding relation with the cone.

1,476,728. POWER-OPERATED DRAFT LIFTING DEVICE. LUTHER E. ROBY, Peoria, Ill. Filed Apr. 22, 1921. Serial No. 463,505. 9 Claims. (Cl. 97—72.)



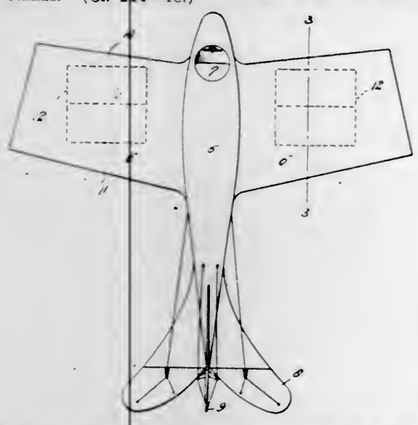
1. In a device of the class described, in combination, a rotative axle, a rocker member, and means for converting the rotary action of the axle into a rocking motion of the rocker member, comprising an operating shaft provided with a clutch member and a crank arm thereon, a driven member normally loose on said shaft and provided with a clutch part, a driving connection between the axle and said driven member, means for optionally effecting clutched relation between said shaft and driven member, a rocker bar member eccentrically related at one end to the rocker member, longitudinally slotted at its other end for engagement and cooperation with the crank on the operating shaft, a filler member in the slot, adjustably related thereto, for varying the length of the clearance space therein.

1,476,729. APPARATUS FOR OPERATING BOOSTER-SUPPLEMENTED LOCOMOTIVES. MONTAGUE H. ROBERTS, Englewood, N. J., assignor to Franklin Railway Supply Company, a Corporation of Delaware. Filed June 10, 1922. Serial No. 567,290. 7 Claims. (Cl. 105—48.)



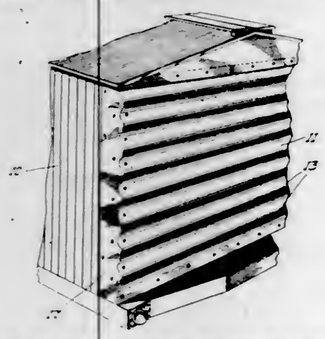
4. A controlling mechanism for a locomotive booster motor comprising in combination with the reverse lever, a pilot valve, a movable latch on the lever, and a valve opening member pivoted so as to be engaged by the latch to open the valve.

1,476,730. AEROPLANE. JESSIE E. M. SEALE, Odessa, Fla. Filed July 12, 1923. Serial No. 650,998. 3 Claims. (Cl. 244—18.)



1. In an aeroplane, a fuselage provided with oppositely projecting laterally extending hollow wings formed with openings in their rear edges, spring closed gates normally closing said openings, and means associated with each wing for drawing air upwardly into the same and forcing said air against the interior surface of the forward portions of the wings to build up an air pressure within the wings sufficient to open said gates.

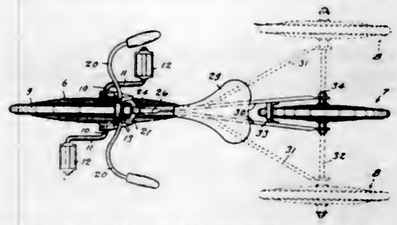
1,476,731. CORRUGATED METALLIC CAR END AND METHOD OF MANUFACTURING THE SAME. CHARLES S. SMITH, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Aug. 31, 1921. Serial No. 497,403. 4 Claims. (Cl. 105—410.)



1. In a car end structure, a metallic end plate having parallel corrugations extending from edge to edge thereof, such corrugated end plate having a width exceeding that of the end of the car to which it is to be attached, and parallel attaching side flanges constituted as plane surfaces out of the corrugated integral margins of the carrugated end plane which extends beyond the side lines of the car, the said attaching side flanges extending in planes normal to the vertical plane of the end plate.

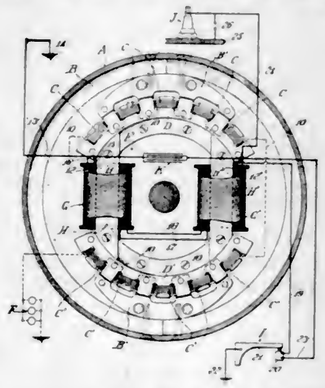
1,476,732. ARTICLE OF MANUFACTURE. SAMUEL L. SMITH, Ellensburg, Wash., assignor to Smith Manufacturing Co., Inc., Ellensburg, Wash. Filed May 10, 1922. Serial No. 559,709. 1 Claim. (Cl. 208—113.)

An article of manufacture comprising, a seat, a front section having means for attaching a large wheel, a rear section having means for attaching two small wheels, another rear section having means for attaching one small wheel, one large wheel and two small wheels, means on said front section adapted to receive either one of the rear sections, means on said two rear sections for



receiving said seat, means on said front section for receiving said large wheel, means upon one of said rear sections for receiving said two small wheels and means on the other rear section for receiving one of said two small wheels.

1,476,733. ELECTRIC-CURRENT GENERATOR. JOSEPH ALLAN SMITH, Syracuse, N. Y., assignor to Ner-A-Car Corporation, a Corporation of New York. Filed July 28, 1922. Serial No. 578,092. 4 Claims. (Cl. 290—41.)



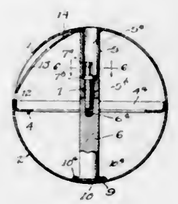
1. In combination with the rotor of a generator of the type described, a stator comprising a plurality of lighting coils divided into two spaced groups, and a pair of high tension ignition coils arranged between the groups of lighting coils.

1,476,734. PROCESS OF MAKING PIPE AND IN A SPECIAL FORM OF PIPE. FREDERICK T. SNYDER, New York, N. Y. Filed May 27, 1920. Serial No. 384,760. 3 Claims. (Cl. 22—209.)



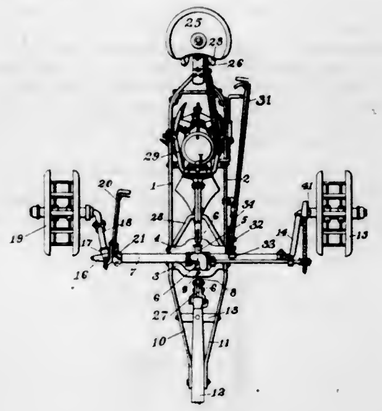
1. The method of casting pipe which consists in forming the mold for such pipe with a thickened portion, the surfaces of such portion being tangential to the circumference of said pipe and pouring the metal to form such pipe through such thickened portion.

1,476,735. TOY SAVINGS BANK. GERHARD STOCKEL, Chicago, Ill., assignor to Ira H. Miller, Chicago, Ill. Filed Feb. 4, 1922. Serial No. 534,048. 7 Claims. (Cl. 46—36.)



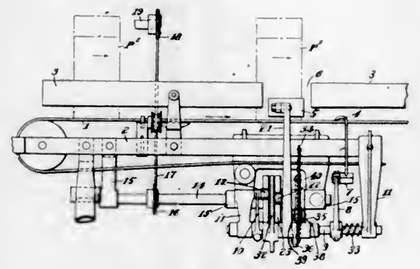
1. A receptacle comprising semi-spherical sections adapted to be joined together to form a sphere, and means for locking said sections together comprising an internal post extending axially between the poles of said sphere, and consisting of sections in abutting contact parted adjacent the center thereof, and a locking member connecting the abutting ends of said post sections and operated by a key insertable through a bore extending axially from the outer end of one of said post sections.

1,476,736. LISTER PLOW. CARL G. STRANDLUND, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed June 30, 1920, Serial No. 393,055. Renewed Apr. 27, 1923. 20 Claims. (Cl. 97—88.)



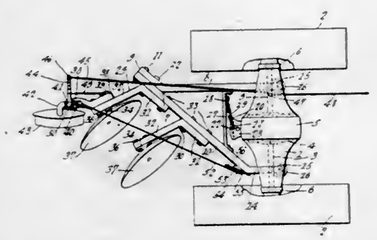
1. In a machine of the character described, the combination of a wheel frame, supporting wheels therefor adapted to be moved forwardly or rearwardly to raise or lower the frame, means to move said wheels, a main frame pivotally supported on the wheel frame and rockable laterally, and a plow carried by the main frame and swung laterally by the rocking thereof, and means to raise and lower said plow relatively to the main frame.

1,476,737. PACKAGE-CONVEYING MECHANISM. RALPH C. STROUT, Wollaston, Mass., assignor to Pneumatic Scale Corporation, Limited, Norfolk Downs, Mass., a Corporation of Massachusetts. Filed Feb. 18, 1922. Serial No. 537,622. 22 Claims. (Cl. 198—21.)



1. In combination with a way along which packages travel, a normally ineffective package remover for automatically removing surplus packages from said way, and means operated by the presence of a surplus package on said way for automatically setting said package remover into operation.

1,476,738. TRACTOR PLOW. JOSEPH HERSCHEL TAYLOR, Benton, Tenn. Filed Aug. 11, 1921. Serial No. 491,621. 1 Claim. (Cl. 97—47.)

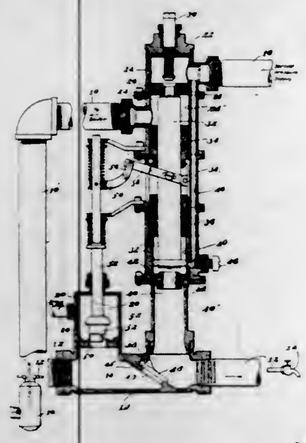


In a device of the class described, a wheel mounted support, a straight track carried by the support and disposed at right angles to the draft line, a frame comprising a main bar disposed parallel to the draft line, an auxiliary bar connected at its rear end to the main bar and located at an angle to the draft line, and a brace connecting the bars, the forward ends of the bars being mounted on the track for vertical swinging movement and for sliding movement thereon transversely of the draft line, adjustable means connecting the brace and the support to shift the frame transversely of the draft line, and a bracket extended rearwardly from the auxiliary bar, and a soil-engaging member carried by the bracket.

1,476,739. AUTOMATIC VALVE. OTTO P. TORNGREN, Everett, Mass. Filed July 17, 1922. Serial No. 575,645. 14 Claims. (Cl. 137—79.)

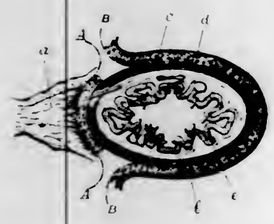
14. A liquid storage and supply system comprising a container, a pressure supply line leading thereto, and a distributing line extending therefrom having a control outlet; combined with apparatus providing a relatively small by-passage past the container from the supply to the distributing line, and mechanism, including suitable connected valves arranged and adapted to

be shifted automatically by liquid pressures in the system, to make the line of flow alternatively through the



container and through the by-pass; there being a valve preventing flow from the by-pass into the container in the latter case.

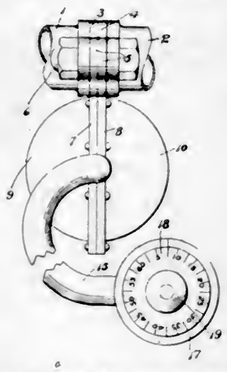
1,476,740. PROCESS OF MANUFACTURING CATGUTS. SHUNZO UYAMA, Tonodan, Kyoto, Japan. Filed Dec. 8, 1920. Serial No. 429,257. 4 Claims. (Cl. 149—1.)



1. In the manufacture of catgut, the process of preparing an intestinal tube, which consists in circumferentially incising said tube so as to cut only its serous membrane and outer longitudinal muscle layer, leaving the inner muscle layer and mucous membrane intact, and stripping off the serous membrane and outer longitudinal muscle layer altogether in one film.

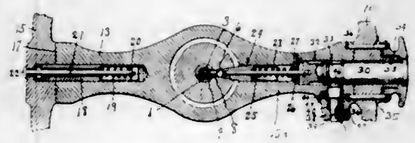
1,476,741. FUEL-PASSAGE LOCK FOR INTERNAL-COMBUSTION ENGINES. MILFORD T. VANDERVOORT, Grand Rapids, Mich., assignor to Abraham Vander Henst, Grand Rapids, Mich. Filed Mar. 21, 1921. Serial No. 454,016. 3 Claims. (Cl. 251—6.)

1. In combination with a carburetor outlet, a manifold in alinement therewith, a casing disposed between said outlet and manifold and secured thereto, said casing depending below the carburetor outlet and manifold and having an opening therethrough in alinement with the passages through the outlet and manifold, a gate slidably mounted in the casing to pass across said opening, a shaft rotatably mounted in and through the casing at a point below the gate, a cam attached to the shaft adapted to raise the gate into operative position on turning in one direction, a pin passing through the cam member, two disks loosely mounted on the shaft one each side of the cam member, each being provided with a curved concentric slot into which the ends of the pin pass, and with a radial slot wide enough to pass the gate and located in each disk between the ends of



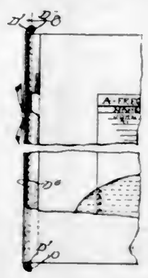
the curved slots, one of said curved slots in one disk being shorter than the other, and means to turn the shaft, substantially as and for the purposes described.

1,476,742. TILTING AND LOCKING STEERING WHEEL. EDWARD H. VINCENT, Detroit, Mich. Filed Nov. 17, 1919. Serial No. 338,582. 61 Claims. (Cl. 74—33.)



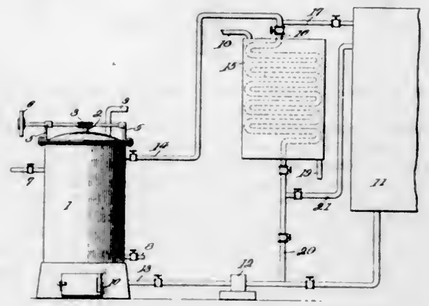
1. In combination, a steering rod for motor vehicles, a head rotatably mounted thereon, a steering wheel carried on the head, a locking bolt whereby the rod is normally caused to rotate with the head and wheel, said wheel being rotatable on the rod when the locking bolt is in inoperative position, and means to maintain said locking bolt in either operative or inoperative position, said wheel also having another movement in respect to the steering rod at an angle to the rotary movement.

1,476,743. PHONE INDEX AND GUIDE. WILLIAM H. WALKER, Chicago, Ill. Filed Jan. 21, 1922. Serial No. 530,909. 6 Claims. (Cl. 129—15.)



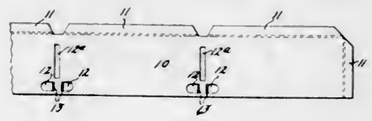
5. An insertion for directories comprising a plurality of alphabetical memorandum pages, and means for securing them to the directory, and a reinforcing element along the inner edge of each page.

1,476,744. COOLING STILL. THOMAS L. WATKEYS, Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Texas. Filed Nov. 22, 1921. Serial No. 517,022. 6 Claims. (Cl. 196—25.)



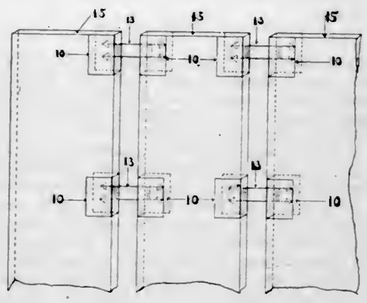
6. The process of cooling stills used in treating oils with a catalytic agent which is rendered inefficient by contact with water which comprises discontinuing the distillation and displacing hot oil therein by constantly circulating cooler oil.

1,476,745. METHOD AND MEANS FOR LAYING SHINGLES. EDWARD J. WILLIAMS, River Edge, N. J. Filed Jan. 11, 1922. Serial No. 528,557. 4 Claims. (Cl. 108—8.)



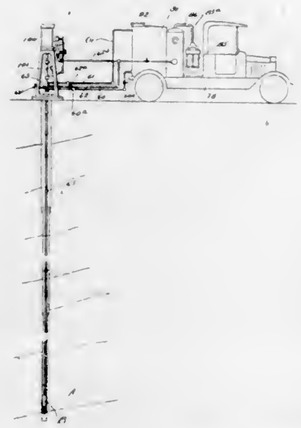
1. As an article of manufacture, a group of shingles in proper alignment and properly spaced in combination with one or more thin flexible metal strips secured along the backs thereof by metal connections.

1,476,746. ASSEMBLING OF SHINGLES. EDWARD J. WILLIAMS, River Edge, N. J. Filed Mar. 29, 1922. Serial No. 547,867. 8 Claims. (Cl. 108—8.)



1. As an article of manufacture, a shingle group comprising a plurality of spaced shingles placed edge to edge united by metallic unions independent of the material of the shingles attached to contiguous edges of the shingles, said unions being pliable where they cross the spaces between adjacent shingles.

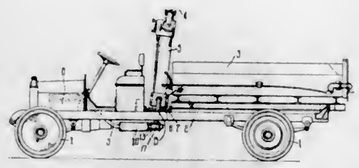
1,476,747. METHOD OF AND APPARATUS FOR RENEWING OIL WELLS. FRANKLIN H. WOLEVER, Chicago, Ill. Filed Jan. 2, 1920. Serial No. 348,948. 23 Claims. (Cl. 166—16.)



1. The method of cleaning obstructed oil wells which comprises the steps of delivering a hydrocarbon solvent of higher specific gravity than water to the compacted obstructive mass of the oil bearing stratum and thereafter raising the mixture of solvent and obstructive material to the top of the well.

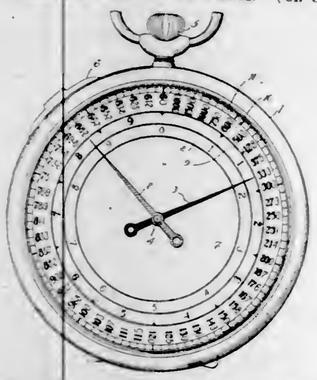
12. Mechanism for cleaning obstructed oil wells comprising an excavating device for attacking the obstructive mass in the well, a motor to drive the same, means for delivering a solvent to the well casing at the level of its screen and forcibly outwardly therebeyond to dissolve the binder element of the solid obstructive mass, and means for raising the mixture of the solvent and solid particles of the obstructive mass.

1,476,748. HYDRAULIC-HOIST HEATER. GARFIELD A. WOOD, Algonac, Mich. Filed Mar. 15, 1920. Serial No. 366,102. 4 Claims. (Cl. 298—22.)



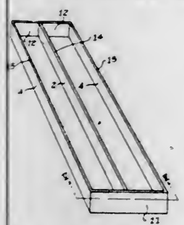
1. A vehicle including an internal combustion engine having an exhaust conduit, a hydraulic hoist on the vehicle adjacent said conduit, jacket forming means for a portion of the circulating system of the hoist, and a conduit forming a give-and-take connection between said exhaust conduit and said means whereby exhaust gases may be applied to heat the working liquid of the hoist.

1,476,749. TIME-STUDY WATCH. LUCIEN I. YEOMANS, Chicago, Ill., assignor to Pioneer Production Company, Chicago, Ill., a Corporation of Illinois. Filed June 29, 1922. Serial No. 571,641. 13 Claims. (Cl. 58—126.)



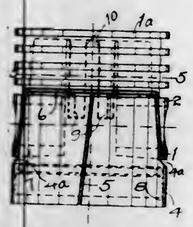
1. A time study watch having a dial and a pair of hands mounted on a common axis to rotate over the dial, the latter having a plurality of graduated scales thereon indicating the lapse of time and rate of production as determined by the position of one or both of the hands.

1,476,750. TWO-COMPARTMENT TRAY. CHARLES C. CASEY, Detroit, Mich. Filed June 24, 1921. Serial No. 480,089. 4 Claims. (Cl. 229—27.)



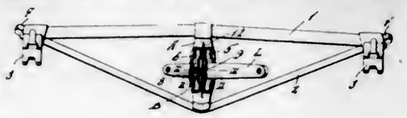
1. A tray made of blanks placed in superposed relation with the upper blank bent to provide side walls and an uninterrupted partition throughout the length of the tray, and the lower blanks bent to provide end walls and portions serving as spacers between said partition and the side walls of the upper blank, the side and end walls of said blanks being connected.

1,476,751. PISTON FOR ENGINES. CHARLIE E. HATCH, Denver, Colo. Filed Feb. 24, 1922. Serial No. 538,906. 9 Claims. (Cl. 74—108.)



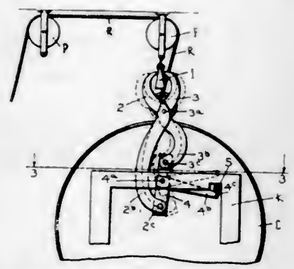
4. A piston provided with a head section with wrist pin lugs integral therewith, a skirt section depending from said head section and attached thereto at only part of its periphery, and provided roughly opposite said part with a longitudinal cut and means on either side of said cut connecting said skirt to said head section.

1,476,752. BRAKE BEAM. CHARLES HARTER, St. Louis, Mo. Filed Nov. 21, 1921. Serial No. 516,629. 9 Claims. (Cl. 188—232.)



5. A reversible brake beam comprising a compression member, a tension member, a brake lever fulcrum including a strut engaging and rigidly held between said compression and tension members, said strut having oppositely disposed longitudinal slots for the reception of a live lever, said strut also having oppositely disposed longitudinal slots for the reception of a dead lever, the side walls of the slots for one lever being parallel with each other but at an angle of approximately 80 degrees to the side walls of the slots for the other lever, and a brake lever pivot adapted to extend through one of said slots and through the lever in the other slot at a right angle thereto to form a pivot for said lever.

1,476,753. AUTOMATIC TIME-CONTROLLED DRAFT APPARATUS. FRANK HERRON, Las Cruces, N. Mex. Filed Aug. 29, 1921. Serial No. 496,363. 5 Claims. (Cl. 161—8.)

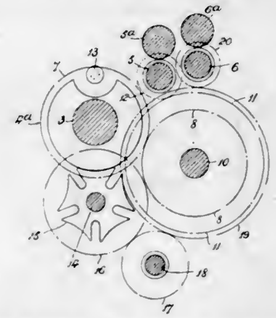


1. In mechanism of the character specified, a time mechanism; a gripper comprising pivotally connected members having opposed jaws above their pivot, one member having a short arm and the other member having a long arm below their pivot; a bar pivoted to the time mechanism having its opposite ends respectively connected with the long and the short arms of the gripper members, an arm projecting from said bar adapted to engage a detent on the alarm spring of said time mechanism to hold the jaws in locked position; whereby when said alarm spring is actuated, said arm will be disengaged from said detent allowing the jaws to open, substantially as described.

1,476,754. MACHINE FOR COMBING COTTON AND THE LIKE. JAMES HORRIDGE, Bolton, England, assignor to John Hetherington and Sons Limited, Manchester, England. Filed Mar. 28, 1922. Serial No. 547,356. 1 Claim. (Cl. 19—116.)

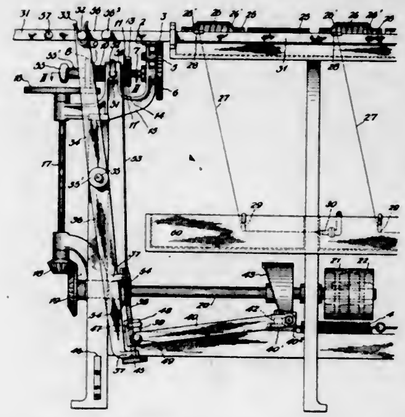
In a combing machine, the combination of a driving shaft, two pairs of rollers disposed in parallelism with said driving shaft, a spur wheel secured to said driving shaft for rotation therewith, a pair of rigidly connected idler spur wheels one in mesh with said first spur wheel, a pinion carried by the shaft of one of the rollers of one of said pairs in mesh with the other of said idler wheels whereby said roller is continuously rotated during rotation of the driving shaft, a boss carried by said driving shaft for rotation therewith and having a pin extending beyond its periphery, a countershaft in parallelism with said driving shaft and having secured thereto a star wheel adapted to be operated by said pin once for every

complete rotation of said boss, a spur wheel secured to said countershaft, an idler pinion in mesh with said spur wheel, an idler spur wheel in mesh with said idler pinion,



and a pinion secured to the shaft of one of the rollers of the other pair, whereby said roller is intermittently rotated during rotation of the driving shaft.

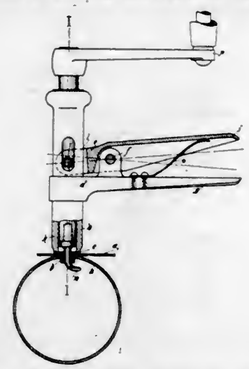
1,476,755. BOBBIN-WINDING MECHANISM AND SPEED CONTROL THEREFOR. CHARLES A. HUTTINGER, Lakewood, Ohio, assignor to The Acme Artificial Silk Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Oct. 9, 1919, Serial No. 329,471. Divided and this application filed May 24, 1922. Serial No. 563,405. 7 Claims. (Cl. 247—18.)



1. In bobbin winding mechanism and speed control therefor, the combination of a driving member; means furnishing a thread; a bobbin upon which the thread is to be wound; rotatable means connected to said driving member, said bobbin being turned by said rotatable means; and means positively actuated by the driving member and acting directly upon said rotatable means automatically to change the relative speed ratio of said rotatable means and said driving member at predetermined intervals.

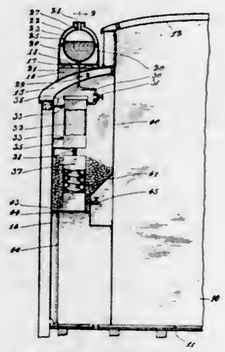
1,476,756. DEVICE FOR PRODUCING RIVET CONNECTIONS. HUGO JUNKERS, Dessau, Germany. Filed June 28, 1920. Serial No. 392,588. 4 Claims. (Cl. 218—19.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

4. In a machine of the character described, a spinning tool and an annular anvil arranged to execute relative rotation and relative coaxial movement to upset a tubular article seated on the anvil, said tool having a shank portion, a working extremity of relatively small



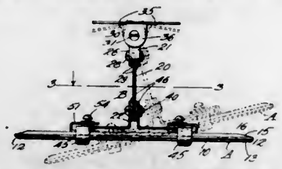
diameter extending laterally therefrom, and a curved tapering portion connecting said extremity with the shank portion.

1,476,757. WATER COOLER. JOSHUA ROY KINCKINER, Pottstown, Pa. Filed Nov. 30, 1920. Serial No. 427,355. 5 Claims. (Cl. 137—79.)



1. In a railway car drinking supply system, an ice chamber, a service tank therein, a supply tank on the roof of the car, an auxiliary tank surrounding and separated from said supply tank, means whereby air may be exhausted from the space between said tanks, the means being supplied from a distant source, and flexible tubular connections between said supply and service tanks.

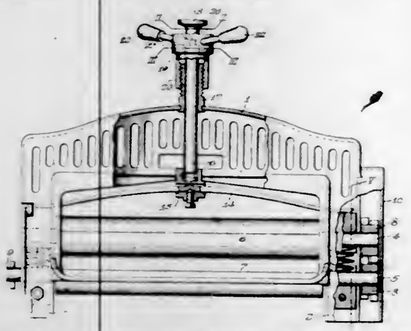
1,476,758. BRACKET FOR SUPPORTING MIRRORS, GLASS PLATES, AND THE LIKE. WILLIAM LA HODNY, Buffalo, N. Y. Filed Jan. 24, 1920. Serial No. 353,653. 4 Claims. (Cl. 45—97.)



1. A bracket for supporting a glass-plate comprising an arm adapted to be arranged in rear of the plate and having a part overhanging the front side of the same, a U-shaped clamp having its front leg adapted to be arranged between said arm and the plate and to engage

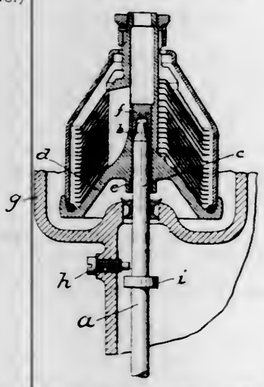
the rear side of the latter and having its rear leg arranged in rear of said arm, and a tightening member bearing against said front leg and mounted on said rear leg.

1,476,759. WRINGER. STANLEY LEECH and GRANVILLE LEECH, Detroit, Mich. Filed Dec. 2, 1921. Serial No. 519,310. 1 Claim. (Cl. 68—32.)



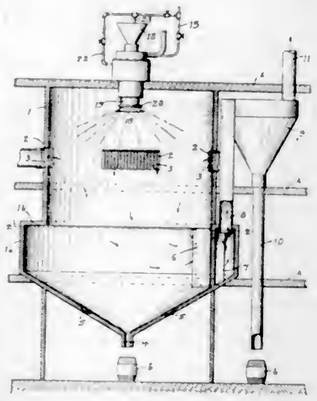
Means for placing the main spring of a wringer under tension and quickly releasing such tension, comprising a rod having a transverse pin, a stationary threaded sleeve through which said rod extends, a screw member on said sleeve, and a slotted cap carried by said screw member and under which the pin of said rod engages to hold said spring under tension, said cap member having shoulders adapted for engagement by the rod pin to establish a driving relation with said rod, said screw member when rotated in one direction imparting movement to said rod and when rotated in an opposite direction releasing said rod.

1,476,760. DRIVING MEANS FOR CENTRIFUGAL BOWLS. MEREDITH LEITCH, deceased, late of Poughkeepsie, N. Y., by Lucy Burruss Leitch, administratrix, Montgomery, Ala., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 6, 1920. Serial No. 428,449. 10 Claims. (Cl. 64—48.)



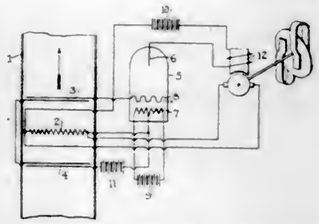
1. Driving means for a centrifugal bowl comprising a centrally disposed spindle socket in the bowl, said socket having a conically tapered wall, and a bowl spindle having a conically tapered portion to engage the conically tapered socket, the angles of said tapers to the axis of rotation being nearly, but not precisely, the same, the tapered faces of the engaging members adapted to contact along a circumferential line so that in use wear will provide a circumferential zone of driving contact of appreciable area.

1,476,761. METHOD OF DRYING GRAPES AND OTHER FRUIT. JOHN M. MACLACHLAN, Milwaukee, Wis. Filed July 13, 1922. Serial No. 574,792. 9 Claims. (Cl. 99—5.)



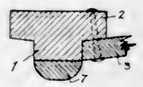
9. The process of producing a dried grape product which consists in separating the seeds from the pulp and hulls of the grapes, grinding said pulp and hulls into a fine condition, centrifugally spraying said finely ground material in a shower in a heated medium, directing a blast of highly heated steam through said shower to separate said material into minute particles, and drying said separated particles while in transit through said heated medium.

1,476,762. APPARATUS FOR MEASURING THE FLOW OF FLUIDS. FRIEDRICH W. MEYER, Madison, and ARTHUR SIMON, Milwaukee, Wis., assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 16, 1917. Serial No. 162,445. 12 Claims. (Cl. 73—167.)



1. In apparatus for measuring the flow of fluids, the combination with a device providing a conduit for the fluid to be measured, of electrical measuring means to be influenced by variations in the flow of fluid through said device and means including an electrolonic device for causing the measuring means to be so influenced.

1,476,763. BOAT. KARL ARNESEN MOEN, Vik, near Grimstad, Norway. Filed Mar. 31, 1922. Serial No. 548,358. 1 Claim. (Cl. 9—6.)



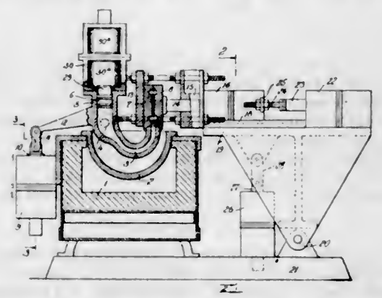
A boat, comprising a wooden keel having its ends bent upward to form stems integral with said keel, a gunwale secured at its opposite ends to said stems, said keel being provided with shoulder-forming projections along its sides, and planks secured at their opposite ends to the gunwale, the lowermost plank at opposite sides of the keel being secured to the shoulder-forming projections of said keel.

1,476,764. CONDUCTOR HOOK. EDWARD W. MORHOFF and CHARLES W. DORELIN, Madison, Wis. Filed Apr. 12, 1923. Serial No. 631,652. 1 Claim. (Cl. 248—36.)



In a conductor hook, an annular band of flexible metal folded and pressed together at one end forming a bar with a plurality of holes through the same, the opposite end of the band turned outward and provided with a hole in register with the bar and through which said bar will pass, a round hole through the band intermediate the ends, a pointed tang revolubly disposed through and secured within said hole by a washer contiguous the inner surface of the band, and over which the tang is riveted.

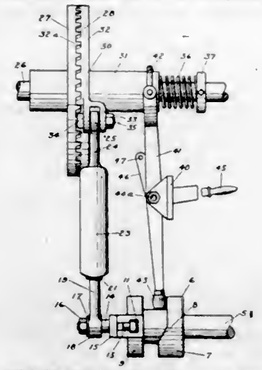
1,476,765. DIE-CASTING MACHINE. THOMAS E. MURRAY, Jr., Brooklyn, and HENRY S. HOLMES, New York, N. Y.; said Holmes assignor of his entire right to Thomas E. Murray, Brooklyn, N. Y. Filed June 1, 1921. Serial No. 474,194. 4 Claims. (Cl. 22—69.)



1. A die casting machine having an electric device for exerting a closing stroke on the die, said device being arranged to exert a maximum pressure at the end of the closing stroke and to maintain such pressure.

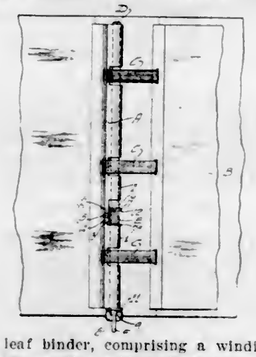
1,476,766. POWER-TRANSMITTING MECHANISM. GRATTON S. REYNOLDS, Tarentum, Pa. Filed Aug. 10, 1922. Serial No. 580,998. 5 Claims. (Cl. 74—14.)

1. A power transmission device comprising a driving shaft, a driven shaft, a pair of wheels on the driven shaft having their opposed faces provided with interfitting teeth, one of said wheels being free on the shaft and the other wheel being keyed thereto, one of said wheels being reciprocable on the shaft into and out of operative engagement with the other, means for imparting an oscillatory movement from said driving shaft to said free wheel, and means operated by means on the driving shaft for effecting the reciprocation of said reciprocable wheel,



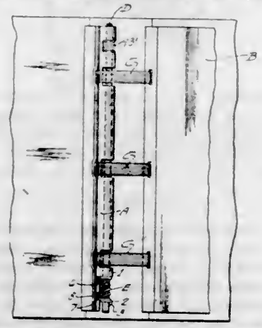
whereby said wheels are in operative engagement during a portion only of the oscillatory travel of said free wheel.

1,476,767. LOOSE-LEAF BINDER. ADOLPH RUBIN, St. Louis, Mo., assignor to Sieber Products Mfg. Co., St. Louis, Mo., a Corporation of Missouri. Filed Oct. 16, 1922. Serial No. 594,815. 14 Claims. (Cl. 129—41.)



1. A loose leaf binder, comprising a winding shaft, a coiled spring surrounding said shaft, and means for causing said spring to exert sufficient frictional pressure on the shaft to lock the same or hold it against rotary movement.

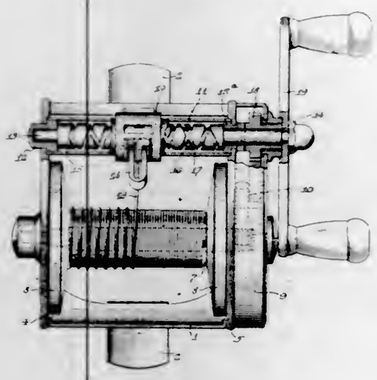
1,476,768. LOOSE-LEAF BINDER. ADOLPH RUBIN, St. Louis, Mo., assignor to Sieber Products Mfg. Co., St. Louis, Mo., a Corporation of Missouri. Filed Oct. 16, 1922. Serial No. 594,816. 12 Claims. (Cl. 129—41.)



1. A loose leaf binder, comprising a winding shaft, and a coiled spring surrounding said shaft and arranged in

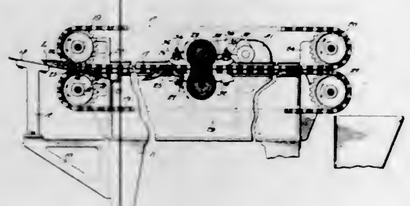
such a way that pressure applied to said shaft in a direction tending to turn it rearwardly causes one or more coils of said spring to be drawn into sufficiently snug engagement with said shaft to lock or hold same against rearward rotary movement.

1,476,769. LINE-WINDING MECHANISM. WILLIAM SCHMID, Coldwater, Mich. Filed Jan. 17, 1923. Serial No. 613,122. 8 Claims. (Cl. 242—84.4.)



8. The combination of a reel, a screw operatively related to said reel, and a line guide actuated by said screw to traverse said reel, said screw having threads of different pitches to cause said line guide to travel fast in one direction and slow in the opposite direction.

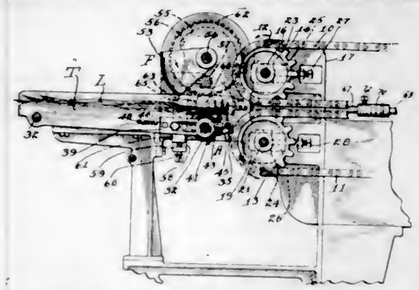
1,476,770. ART OF STEMMING TOBACCO. FREDERICK C. SCHOFIELD, Lynchburg, Va., assignor to Tobacco Stemming Machine Company, Lynchburg, Va., a Corporation of Delaware. Filed Dec. 10, 1921. Serial No. 521,320. 18 Claims. (Cl. 131—57.)



6. An apparatus for leaf stemming comprising means for gripping the leaf stem at a point intermediate its ends whereby the leaf may be folded, means for stemming the leaf in folded condition and means for varying the gripping point of the stem during the stemming action.

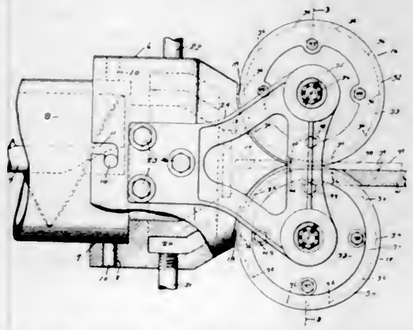
1,476,771. TOBACCO-STEMMING MACHINE. FREDERICK C. SCHOFIELD, Lynchburg, Va., assignor to The Tobacco Stemming Machine Company, Lynchburg, Va., a Corporation of Delaware. Filed Feb. 24, 1922. Serial No. 538,842. 25 Claims. (Cl. 131—57.)

1. In a stemming machine, in combination with movable complemental gripper devices for clamping therebetween the tobacco leaves and conveying the same through stemming elements, a support for receiving the leaves to be stemmed and continuously operable mechanism effective



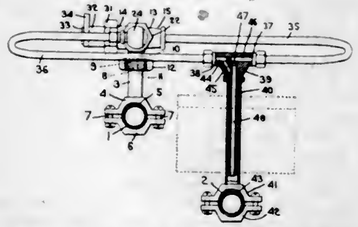
intermittently on the leaves for feeding the same from said support into position to be clamped by said gripper devices.

1,476,772. SOAP MACHINE. JULIUS A. SCHWANTES, Milwaukee, Wis., assignor to Palmolive Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 6, 1920. Serial No. 401,733. 4 Claims. (Cl. 25—7.)



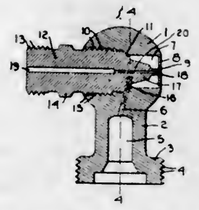
1. A soap forming machine comprising a soap supplying means, a pair of forming rolls provided with co-operating circumferential ribs between which the material from said supply means is forced to form the material into a strip, the peripheries of said rolls having a plurality of co-operating cross ribs adapted to mark off the strip of material into bars, and means carried by said rolls and adapted to sever the strip at certain predetermined points.

1,476,773. VAPORIZING APPARATUS. HERMAN FREDERICK SIMON, Fitchburg, Mass., assignor to Parks-Cramer Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 16, 1921. Serial No. 501,215. 5 Claims. (Cl. 299—86.)



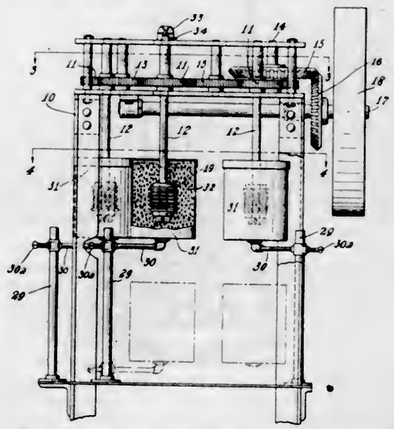
1. A vaporizing apparatus comprising a delivery conduit, for a gaseous fluid under pressure, having a T, an atomizer head adjustably secured to each of the oppositely extending branches of said T, a valve in said T having ports arranged to selectively supply said fluid under pressure to one or to both of said branches or to cut off the supply of fluid under pressure to either or both of said branches, water supplying means and flexible conduits connecting said water supplying means with said atomizer heads.

1,476,774. VAPORIZER. HERMAN FREDERICK SIMON, Fitchburg, Mass., assignor to Parks-Cramer Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 16, 1921. Serial No. 501,216. 10 Claims. (Cl. 299—140.)



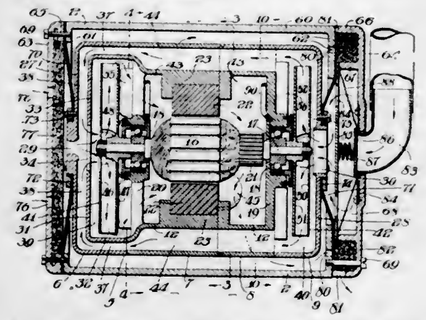
10. A vaporizer head comprising a member having a circular chamber provided with a tangential inlet for the admission of a gaseous fluid under pressure and an axial outlet, a counterbore co-axial with said chamber having a screw threaded wall presenting a conical shoulder at its junction with the wall of said chamber, a concentric juxtaposed conical liquid delivery member having an axial duct and provided with a screw threaded portion engaging the screw threaded wall of said counterbore and provided with a tapered nozzle of reduced diameter extending through said chamber concentrically into said outlet, a conical shoulder on said inlet member complementary to the shoulder of said counterbore acting to position said nozzle accurately concentrically of said outlet and to provide an air-tight joint.

1,476,775. METHOD AND APPARATUS FOR MAKING ABRASION TESTS. JOHN C. SPAOULL, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Dec. 24, 1921. Serial No. 524,729. 14 Claims. (Cl. 73—51.)



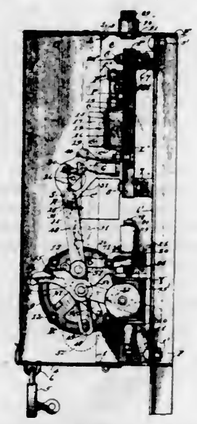
1. The method of making abrasion tests which comprises forming a flat, circular ring of the material to be tested, holding said ring by applying clamping pressure axially to its inner periphery, burying it in loose abrading material, rotating it in its own plane while so buried, and determining the loss of material resulting therefrom.

1,476,776. AIR-COOLED ELECTRIC MOTOR. MAX STAMM, HARRY TUCKER, and MARTIN J. PELTZ, Philadelphia, Pa. Filed Mar. 16, 1920. Serial No. 366,225. 22 Claims. (Cl. 230—11.)



1. The combination of an electric motor having a frame and an armature shaft journaled therein, said frame forming an air passage having an inlet and an outlet and enclosing the armature and field elements of the motor, and two air driving devices carried by the armature shaft within said passage, each of said devices exerting a pull on the armature shaft in opposition to the pull of the other longitudinally of the shaft during the operation of the motor, and said devices operating in series to drive air through said passage from the inlet to the outlet thereof during the operation of the motor.

1,476,777. STARTING SWITCH FOR ELECTRIC MOTORS. EDMUND E. TAEUBERT, Los Angeles, Calif., assignor to Leo M. Harvey, Los Angeles, Calif. Filed Mar. 30, 1920. Serial No. 372,375. 14 Claims. (Cl. 200—4.)

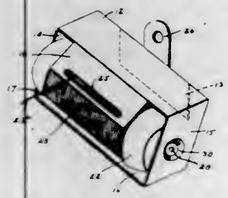


7. A starting switch for electric motors composed of a multiple contact device and including a plurality of sets of spaced stationary contacts, a plurality of movable contacts for engagement therewith, a common support for said movable contacts, fixed guide members for said support, a power actuated oscillatable shaft, cams fixed to said shaft, means operably connecting said cams with said movable contact support for advancing and retracting the movable contacts into successive engagement with corresponding members of said stationary contacts, said guide means being arranged to move said movable contacts slidably from one to another of the spaced stationary contacts in a starting operation, and having means for laterally retracting the movable

contacts from engagement with the final stationary contacts when the circuit is open, means cooperating with said cams for momentarily stopping the sliding movement of said movable contacts for engagement with the initial stationary contacts, and means for thereafter releasing said movable contacts for further operation and for engagement with the final stationary contacts, for the purpose described.

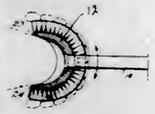
11. A starting switch for electric motors comprising a plurality of sets of initial and final contact bars, a plurality of movable contact bars for successive engagement respectively with the initial and final contact bars, a power actuated cam arranged for operating said movable bars, means connecting said movable bars with said cams, and guide means for effecting a longitudinal and lateral movement of said movable bars into and from contact with the stationary bars, said cam being arranged for electromagnetic operation.

1,476,778. HOLDER FOR COILED WIRE. EDWARD H. TATE, Malden, Mass. Filed Jan. 17, 1923. Serial No. 613,113. 4 Claims. (Cl. 242—138.)



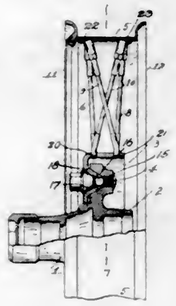
1. A coiled wire-holder, comprising a frame formed from an elongated sheet metal blank, and including an upper side portion having rear and front lateral wings at its opposite edges, an intermediate portion, a lower side portion extending parallel with the upper side portion and connected therewith by the intermediate portion, and overlapping end portions bent from the upper and lower side portions, the frame formed by said portions being rectangular and open at opposite sides; a rod extending through the center of said frame, and fixed at one end to the intermediate portion, and at its opposite end to the overlapping parts of the end portions, and a wire-holding spool journaled on said pin, the said wings being inclined from the upper side portion, and arranged to stand in close proximity to opposite sides of a winding of wire on the spool, and confine the outer convolutions of said winding, the said upper and lower side portions being also arranged to stand in close proximity to opposite sides of the winding and additionally confine said convolutions.

1,476,779. TOOTHBRUSH. HERMAN TAUB, New York, N. Y. Filed May 12, 1921. Serial No. 469,044. 4 Claims. (Cl. 15—167.)



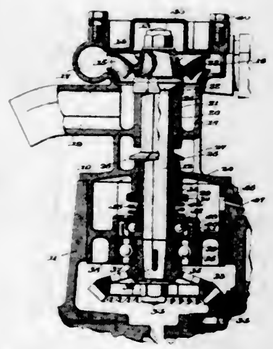
1. A tooth brush including a head having an arcuate line of bristles forming a convex brushing surface curved in two directions at right angles to each other and adapted to engage the anterior surface of both rows of teeth when the rows are almost closed on each other, and a handle projecting laterally from said head and disposed approximately midway between the upper and lower edges of the brushing surface thereby to bring some bristles against both the upper and lower teeth when the handle projects from the mouth and between the partly closed rows of teeth.

1,476,780. WHEEL. MORTON VAN METER, Cadillac, Mich. Filed Aug. 22, 1921. Serial No. 494,364. 1 Claim. (Cl. 301—56.)



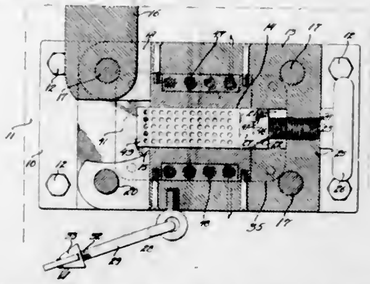
In a wheel; a central member; a circumferential member; a series of spokes extending from angularly spaced points of attachment adjacent one edge of the circumferential member, in directions diagonal to the wheel's radial lines, to angularly spaced points of attachment adjacent alternately opposite edges of the central member; and a second series of spokes extending, from angularly spaced points of attachment adjacent the opposite edge of the circumferential member, in directions diagonal to the wheel's radial lines, to angularly spaced points of attachment adjacent alternately opposite edges of the central member; the spokes of one series extending thus diagonally oppositely to those of the other series.

1,476,781. PUMPING MECHANISM. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed May 22, 1920. Serial No. 383,455. 7 Claims. (Cl. 103—111.)



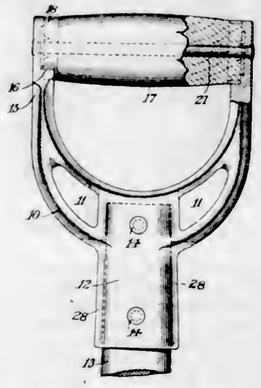
1. In combination, a pump casing having a fluid receiving chamber, said chamber having an inner wall forming a bearing, a bushing mounted in said bearing, a shaft mounted in said bushing, and means for maintaining said shaft and bushing in close engagement with each other to prevent the leakage of fluid from said chamber between said shaft and bushing.

1,476,782. APPARATUS FOR MAKING ELECTRIC-BATTERY ELEMENTS. HUGO G. WAGNER, Point Pleasant Beach, N. J. Filed Feb. 20, 1922. Serial No. 537,791. 5 Claims. (Cl. 18—16.)



1. Apparatus of the character described including a mold having a cavity in its inner wall; means for compressing material in the mold, and means for forcing a portion of the material into the cavity, the mold having a gate section movable to allow the molded object to be withdrawn.

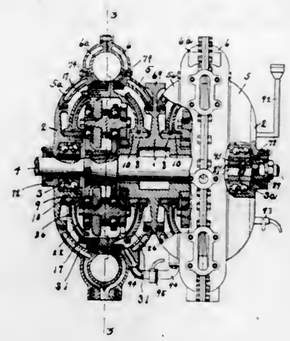
1,476,783. SHOVEL HANDLE. LEWIS E. WEBSTER, Wyoming, Pa., assignor to The Wyoming Shovel Works, Wyoming, Pa., a Corporation of Pennsylvania. Filed Mar. 11, 1922. Serial No. 542,949. 15 Claims. (Cl. 294—57.)



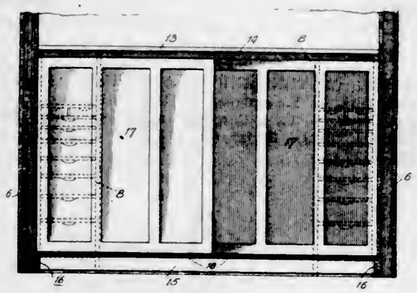
1. A tool handle comprising a body portion of D shape, a grip assembly carried between the arms of the body portion and comprising a wooden grip having ferrules secured to its opposite ends, means on said ferrules for engaging the body portion so as to prevent the rotation of the grip assembly and body portion.

1,476,784. ROTARY INTERNAL-COMBUSTION ENGINE. HOWARD L. WEED, Detroit, Mich., assignor to Weed Differential-Rotary Motor Company, Detroit, Mich., a Corporation of South Dakota. Filed Jan. 2, 1920. Serial No. 348,864. 32 Claims. (Cl. 123—11.)

18. In an internal combustion engine, an annular cylinder and a casing connected thereto and containing lubricating oil, a main shaft journaled in the casing at right angles to the plane of the cylinder, a pair of rotors journaled in the casing concentric with the main shaft and having rims adjacent the cylinder, the peripheries of the rotors forming a part of the cylinder wall, pistons connected to the rims of the rotors, a pair of cylindrical flanges, within the casing, and bearing rings mounted thereon to engage the rotor rims, circumferential passages being formed by the bearing rings and said flanges, said flanges being formed with openings through which oil may be forced into said passages by centrifugal force to press the bearing rings against the rotor rims, said bearing rings being formed with circumferential grooves, and said casing being formed with passages to conduct fuel under pressure to said grooves to assist the pressure of the oil to hold the bearing rings against the rotor rims.



1,476,785. BUILT-IN WARDROBE. CHARLES C. WHITE, Chicago, Ill. Filed Dec. 12, 1921. Serial No. 521,592. 3 Claims. (Cl. 20—1.11.)

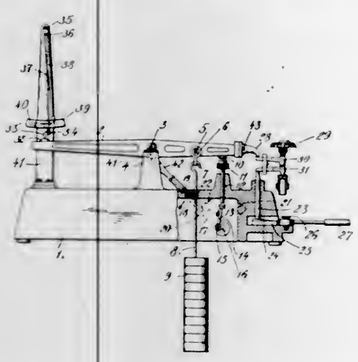


1. The combination with a room having a back and side walls forming a space at one end thereof, of a wardrobe comprising a pair of factory built end units spaced apart to form a clothes compartment between them and fitting in the corners of said space respectively, the space between the units being adapted for the suspension of clothes and means in said space for holding the clothes, each unit being formed of a pair of sides and cross-members rigidly secured together, top and base-members separately formed from the end units and fitted between the side walls, and means for closing the space between the units.

1,476,786. TESTING DEVICE FOR AUTOMATIC SPRINKLER HEADS, ETC. ALBERT L. ABBOTT, Youngstown, Ohio, assignor to Ohio Automatic Sprinkler Company, Youngstown, Ohio, a Corporation of Ohio. Filed May 21, 1920. Serial No. 388,212. 12 Claims. (Cl. 265—16.)

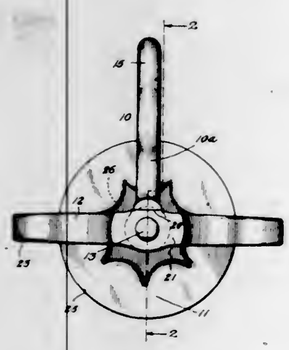
1. In testing devices for automatic sprinkler heads, a base, a testing lever mounted in said base, a weight cooperating with said lever, a releasing handle and a connected supporting stop movably mounted in said base and adapted to engage the weighted arm of said lever adjacent said weight to support the same, a replaceable contact end on said lever and adapted to engage a sprinkler head strut lever, a cooperating contact pin movably

mounted in said base and adapted to engage the other strut lever of the sprinkler head, setting devices cooperating with said contact pin and comprising a setting cam to adjust the position of said contact pin with respect to said contact end and supporting stop and magnifying indicating means cooperating with said testing lever and



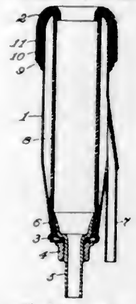
comprising an indicator and a cooperating scale having a zero point and magnifying lever connections between said indicator and said testing lever to give a substantially definite indication of the slight yield of said strut levers and connected parts of an automatic sprinkler head under the standard testing pressure of said weight.

1,476,787. CLOTHESLINE PULLEY. HANS ADELMANN, New York, N. Y., assignor to Ham Boiler Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 24, 1923. Serial No. 614,528. 1 Claim. (Cl. 254—197.)



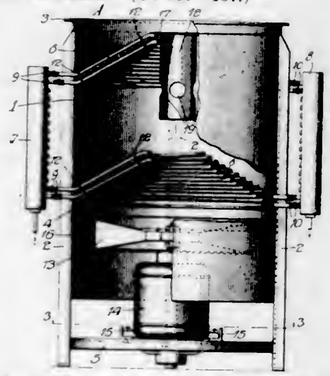
A clothes line pulley comprising a flat frame having two spaced legs terminating in pivot ends, a wheel rotatable within the frame, an endless shackle connected to the remote outside portions of the pivot ends of the frame at right angles to the plane of the frame, and a pivot bolt passing through the sides of the shackle, the ends of the frame, and the hub of the wheel, holding said parts permanently together, the outside portions of the pivot ends of the frame being recessed to receive the side portions of the shackle, the cross section of the shackle sides being the same as the depth and width of said recesses, and the end portions of the shackle being looped to form enlarged openings for the passage of knots formed in the line.

1,476,788. TEAT CUP FOR MILKING MACHINES. CHARLES M. ANDERSON, Waterloo, Iowa. Filed Aug. 11, 1921. Serial No. 491,565. 4 Claims. (Cl. 31—102.)



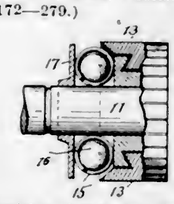
1. A rigid tubular cylindric teat-cup having its open teat-receiving end curved domically inwardly and annularly.

1,476,789. HOT-BLAST HEATER. EDWIN M. BASSLER, Milwaukee, Wis. Filed Apr. 7, 1921. Serial No. 459,399. 4 Claims. (Cl. 257—137.)



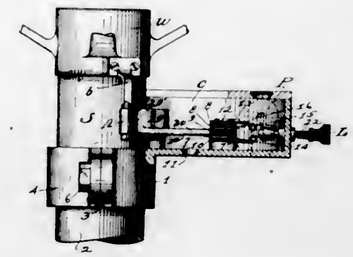
3. In a hot blast heater, the combination of a casing provided with air admission and discharge openings, a series of pipe coils supported therein, said coils consisting of separate lengths of pipe bent to form conical helices, supply and return manifolds, independent connections from each of said coils to said supply and return manifolds, valves whereby said coils may be separately turned on and off to vary the effective area of heating surface of the heater, and a fan adapted to cause a current of air to traverse said coils, substantially as described.

1,476,790. CENTRIFUGALLY-OPERATED CIRCUIT-CONTROLLING DEVICE. MEIGS W. BARTMESS, Cleveland, Ohio, assignor to The National Screw and Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 18, 1922. Serial No. 537,454. 8 Claims. (Cl. 172—279.)



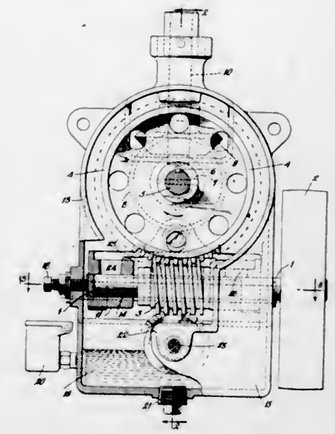
2. A short circuiting device for electrical apparatus, comprising an expansible annulus in the form of a helical spring containing a plurality of independent disconnected loose weights.

1,476,791. ELECTRIC CONTROL SYSTEM FOR VEHICLE DIRECTION INDICATORS. HERBERT S. BECKMAN, Los Angeles, Calif. Filed Sept. 2, 1919. Serial No. 322,720. 4 Claims. (Cl. 200—59.)



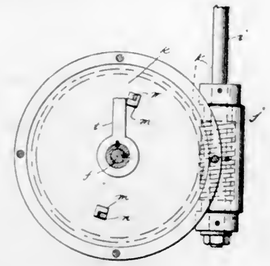
1. A signal operating mechanism for vehicles including in combination with a steering post a casing fixed thereto, a pair of contact elements, each including spring contacts normally spaced apart for maintaining an open circuit, a pair of manually operable devices adapted for engagement between the contact members of each set for initially closing the circuit, a pair of pivoted arms mounted in said casing and having portions thereof adapted for engagement with and operation by the steering post, whereby said arms will engage and spring the contact members of the contact elements, respectively, for maintaining a closed circuit when the steering post is turned in opposite directions.

1,476,792. DRIVING MECHANISM FOR WASHING MACHINES. THOMAS W. BEHAN and HERMAN W. DOUGHTY, Binghamton, N. Y. Filed Dec. 15, 1922. Serial No. 607,133. 4 Claims. (Cl. 74—7.)



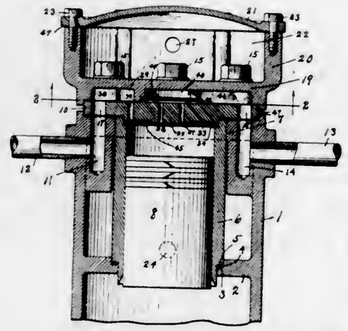
1. A driving mechanism for the purpose described, comprising a driving shaft, a yoke provided with bearings in which said shaft is mounted, a gear mounted upon said shaft, a second gear driven thereby, an oil reservoir located below said shaft, and a third gear driven by said first gear and adapted to be partially submerged in oil contained in said reservoir and to feed oil constantly to the other two gears, said yoke being provided with means for directing a portion of said oil to each of said bearings.

1,476,793. AUTOMATIC REVERSER. SIMON BERG and RICHARD O. BERG, Detroit, Mich., assignors to Michigan Steel Tube Products Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 30, 1922. Serial No. 547,076. 8 Claims. (Cl. 77—33.)



1. In an automatic reverser, the combination of a driving wheel, a shaft, means for returning the shaft in rotative movement after it has been actuated in a forward feeding movement, driving connections between the driving wheel and the shaft comprising a driving lug provided with a chamfered face and a driving arm arranged to be carried forward by said lug when projected and a spring for normally projecting said lug, and a cam interposed in the path of said chamfered surface of the lug to temporarily withdraw the lug from the face of the driving wheel to permit the said lug to advance ahead of the driving arm to temporarily release the driving connections to permit the return of the shaft, while the driving lug is again projected to pick up the driving arm at the appointed time.

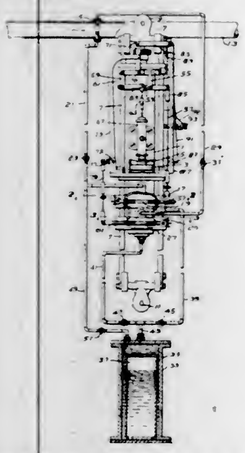
1,476,794. PUMP CYLINDER AND VALVES THEREFOR. HENRY J. BERRY, Detroit, Mich., assignor of one-half to Ellsworth S. Bryant, Detroit, Mich. Filed July 28, 1922. Serial No. 578,101. 7 Claims. (Cl. 230—34.)



7. In combination, a cylinder, a valve plate at the outer end thereof, a cylinder head at the outer side of the valve plate, means to secure the head and plate to the cylinder, said cylinder head having separate intake and discharge grooves in the surface next to the valve plate, said cylinder having intake and discharge openings in its wall and said cylinder, valve plate and head having passages connecting the intake and discharge openings in the cylinder wall to the intake and discharge grooves in the cylinder head, said valve plate having two concentric circular groups of holes whereby the intake and discharge grooves in the cylinder head may connect to the cylinder independently of said pas-

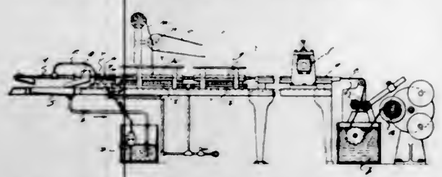
sages and a sheet metal valve on each side of the valve plate to permit and prevent passage of fluids through said holes, the valve plate having two circular ribs on each of its sides concentric with the groups of holes to constitute a valve seat, the outer ribs cooperating with circular portions of the head and cylinder respectively to limit the movements of the outer edges of the valves.

1,476,795. REGULATING MECHANISM. FRANCIS H. BROWN, Glen Olden, Pa., assignor to Petroleum Heat and Power Company, Boston, Mass., a Corporation of Delaware. Filed May 22, 1920. Serial No. 383,553. 5 Claims. (Cl. 236—85.)



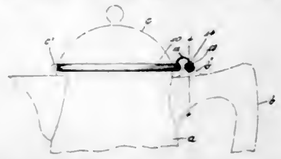
1. The combination of a cylinder, a piston therein, a stem for said piston, a frame connected to said stem, a pilot valve for controlling the supply of motive fluid to said cylinder, and means for operating said pilot valve comprising a main lever, a bell-crank pivoted on said main lever and having an arm connected to said pilot valve, primary operating means connected to said main lever for moving said main lever and bell-crank to operate the pilot valve to admit motive fluid to said cylinder, primary operating means connected to the other arm of the bell-crank for moving the latter to operate the pilot valve to admit motive fluid to said cylinder, and means operated by movement of said piston and frame for moving the bell-crank to operate the pilot valve to cut off the supply of motive fluid to said cylinder.

1,476,796. MACHINE FOR FORMING TUBES. HARRY W. BUNDY, Detroit, Mich. Filed Sept. 15, 1922. Serial No. 588,339. 17 Claims. (Cl. 113—33.)



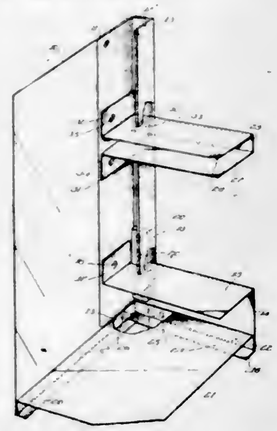
1. In a machine for the purpose specified, the combination of a tube forming apparatus and tube sweating apparatus arranged in line and operating simultaneously to continuously propel a strip of tinned metal through the forming apparatus and sweating apparatus to first fashion the strip into a tube and then complete the tube by sweating portions of the same together by melting the tin coating.

1,476,797. HINGE FOR COOKING UTENSILS. JOHN P. CARLIN, Cromwell, Conn. Filed Feb. 15, 1922. Serial No. 536,805. 2 Claims. (Cl. 53—3.)



1. A device of the character described comprising a member adapted to be detachably connected to the lid of a utensil and having an integral leaf provided with a pair of knuckles; an internally threaded bushing positioned between said knuckles, and a pintle screw in each knuckle, said screws having their ends threaded into said bushing.

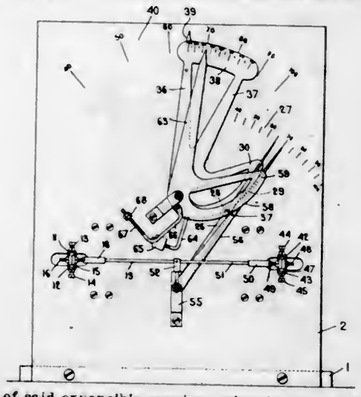
1,476,798. SHEET-METAL FURNITURE. JAMES R. CLARK, Rochester, N. Y., assignor to Yawman & Erbe Manufacturing Co., Rochester, N. Y., a Corporation of New York. Filed May 24, 1922. Serial No. 563,199. 6 Claims. (Cl. 45—2.)



4. The combination with a sheet metal member having one edge doubled back to form a portion of double thickness, said double portion being bent laterally and then backwardly, terminating in a flange substantially parallel to the plane of said member, of a member extending at substantially right angles to the plane of said first mentioned member, said second mentioned member comprising a strip of sheet metal substantially U or channel shaped in cross section, said flange being cut away to provide a notch or recess snugly receiving said channel shaped member, the parallel flanges of said channel shaped member being provided with oppositely disposed right angularly bent end portions, said end portions being spot welded to the double portion of said first mentioned member, and the web of said channel shaped member being spot welded to the laterally bent portion of said first mentioned member.

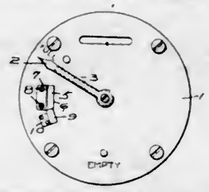
1,476,799. AUTOMATIC INDICATOR OF WET AND DRY BULB TEMPERATURE AND RELATIVE HUMIDITY. EDWARD W. COMFORT, Winchester, Mass., assignor to Parks-Cramer Company, Fitchburg, Mass., a Corporation of Massachusetts. Filed July 22, 1919. Serial No. 312,543. 11 Claims. (Cl. 73—24.)

1. A psychrometric device comprising wet and dry bulb expansible members, co-operating movable indicating members and means simultaneously operable respectively by said wet and dry bulb expansible members for transmitting motion to said co-operating movable members in logarithmic relation to the respective tempera-



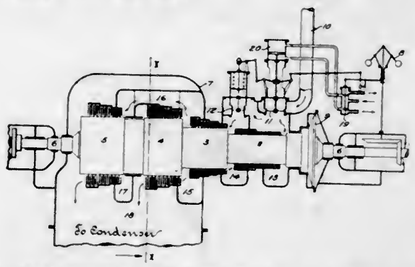
tures of said expansible members whereby the relative positions of said movable members are indicative of a condition of humidity which is a function of the temperatures of said wet and dry bulb members.

1,476,800. ELECTRICAL INSTRUMENT CONTACT. MARK C. COSGRAY, Sandusky, Ohio. Filed July 18, 1921. Serial No. 485,576. 5 Claims. (Cl. 200—56.)



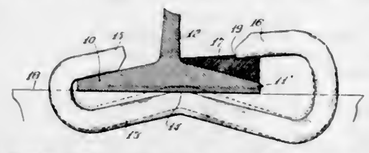
1. In an electric instrument a resilient contact movable over the face of the instrument and normally located in spaced relation with respect to the face of the instrument, means located in the path of the resilient contact for deflecting the contact from its normal position relative to the face of the instrument, a fixed contact for receiving the resilient contact from the said means and located at a distance greater than the normal position of the resilient contact from the face of the instrument.

1,476,801. TURBINE. HANS P. DAHLSTRAND, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Sept. 5, 1916. Serial No. 118,577. Renewed Sept. 25, 1922. Serial No. 590,546. 10 Claims. (Cl. 253—69.)



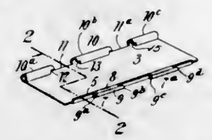
1. In a turbine, a high pressure stage having an inlet, a plurality of low pressure stages each communicating directly with a common admission chamber, and means for admitting high pressure motive fluid to said turbine between said high pressure stage inlet and said low pressure stage admission chamber.

1,476,802. RAIL ANCHOR. WILLIAM H. DE BUSK, Chicago, Ill., assignor to The P. & M. Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 5, 1923. Serial No. 622,956. 13 Claims. (Cl. 238—329.)



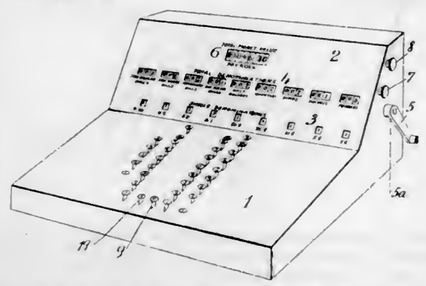
1. A rail anchor comprising a body adapted to extend across the bottom face of a rail, and jaws carried by said body and overlying the upper faces of the flanges at opposite sides of the rail, the body comprising a bearing for the bottom face of the rail, located between the jaws, the parts being so arranged that the device is applicable to a rail from one side thereof and is tightened thereon by transverse movement of the body and jaws with respect to the rail, and comprising means serving by engagement with the end of one of the jaws normally to prevent movement of said jaw in the direction for loosening on the rail.

1,476,803. PRINTING PLATE. FRANK DE MINICO, New York, N. Y., assignor to Pollard-Alling Manufacturing Company, New York, N. Y., a Corporation of New York. Filed Aug. 30, 1922. Serial No. 585,128. 11 Claims. (Cl. 101—369.)



1. In a printing plate of sheet metal adapted for articulation with others of its kind the combination of a body having on one edge thereof an outstanding ear comprising a pintle portion and a neck portion, said pintle portion including opposite pintles projecting in opposite directions beyond said neck portion and said neck portion having a lengthwise rib formed therein for bringing said pintle portion and said body closer together.

1,476,804. DENOMINATOR AND ADDING MACHINE. MICHELE GUGLIELMO DE SIMONE, Stapleton, N. Y., assignor, by mesne assignments, to New York Calculating Machine Company, Inc., a Corporation of New York. Filed July 3, 1914. Serial No. 848,741. 77 Claims. (Cl. 235—82.)



1. In a device of the character described, a key-board formed of banks of manipulatable keys corresponding to solely single unit numbers, a plurality of operable means

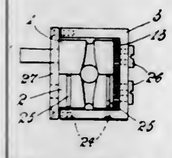
corresponding to denominations of monetary values, means controlling said operable means for analyzing any certain monetary value represented by the manipulated keys into the minimum number of denominations of equivalent total monetary value and means for positively limiting the extent of operation of said operable means.

44. In a device of the character described, analysis mechanism comprising a main lever, an operating rod, a yieldable connection between said main lever and said operating rod, a second main lever, a link having a slot and controlled by said second main lever, and means carried by said second main lever and cooperating with said yieldable connection.

1,476,805. PROCESS OF MAKING WATERPROOF BLOOD GLUE. WILLIAM ALLEN DRUSHEL, Grand Rapids, Mich., assignor to Haskelite Manufacturing Corporation, a Corporation of New York. Filed Oct. 27, 1919. Serial No. 333,580. 6 Claims. (Cl. 87—17.)

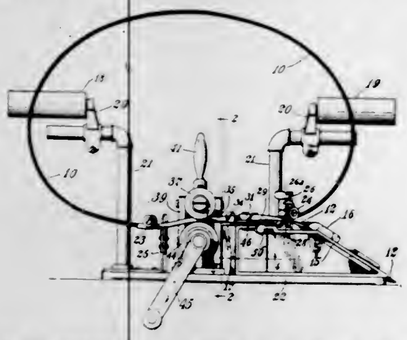
1. The process of manufacturing waterproof glue which consists in soaking blood albumen in a quantity of water somewhat greater in weight than the weight of the dry albumen for about an hour, then stirring the mixture until the albumen is completely dissolved, and then introducing into the solution a solution of silicate of soda and simultaneously stirring the mixture.

1,476,806. APERTURE SIGHT. THOMAS PETER EUSTEGE, Wellington, New Zealand. Filed Oct. 9, 1922. Serial No. 593,478. 8 Claims. (Cl. 33—53.)



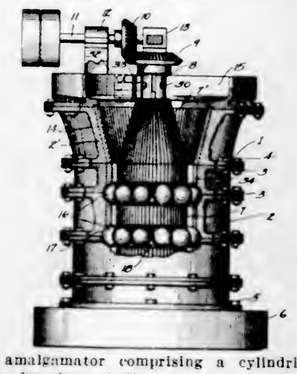
1. An aperture sight comprising a housing, members rotatably mounted therein with their surfaces contacting and provided on their contacting surfaces with tapered grooves in register with each other so as to form a sight-aperture adapted to vary in size as the said members are rotated.

1,476,807. METHOD AND APPARATUS FOR COVERING RINGS. BENJAMIN A. EVANS and IRVIN ZWISLER, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Jan. 23, 1920. Serial No. 353,521. 28 Claims. (Cl. 154—9.)



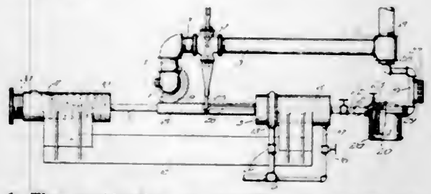
13. In apparatus for covering a resiliently flexible ring, the combination of means for circumferentially driving said ring, means for guiding a portion thereof along a straightened path, means for applying a covering to that portion of the ring which is traversing said path, and means for pressing said covering to shape it about said portion while the latter traverses said path.

1,476,808. AMALGAMATOR. ANDREW FERGUSON, Seattle, Wash. Filed June 20, 1922. Serial No. 569,632. 5 Claims. (Cl. 83—67.)



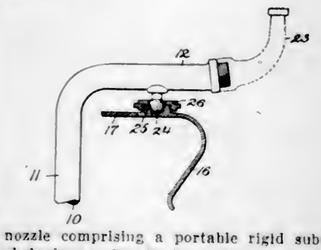
1. An amalgamator comprising a cylindrical casing having an interior grinding surface, a roller arranged within the casing longitudinally thereof and providing a vertical passage between them; said roller having a central channel opening into upper and lower ends of the casing, ore rolling balls mounted between the casing and roller and supporting the latter and means for delivering water under pressure into the lower end of the casing to effect an upward circulation through the roller passage and a downward circulation about the roller.

1,476,809. AUTOMATICALLY-CONTROLLED SOOT BLOWER. HENRY J. GEBHARDT, Chicago, Ill. Filed June 29, 1918. Serial No. 242,639. 18 Claims. (Cl. 122—392.)



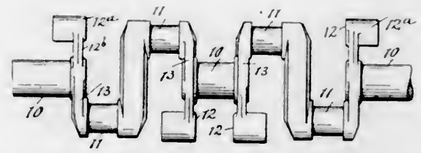
1. The combination of operating mechanism for a soot blower, a fluid pressure actuated means forming a power device to operate said mechanism, thereby to control said blower, and automatic controlling means and instrumentalities automatically controlled thereby for supplying fluid pressure to periodically cause the operation of said power device, so that said blower is intermittent in operation and entirely automatic in the action thereof.

1,476,810. NOZZLE. JOHN GILSENAN, New York, N. Y. Filed Oct. 17, 1921. Serial No. 508,283. 7 Claims. (Cl. 299—107.)



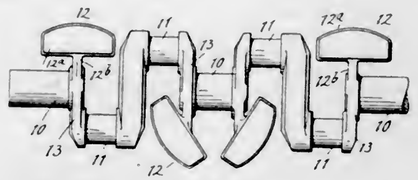
1. A nozzle comprising a portable rigid substantially right-angled pipe, and a hook on the inner side of one of its arms

1,476,811. METHOD OF MAKING COUNTERBALANCED CRANK SHAFTS. LOUIS W. GREVE, Cleveland, Ohio, assignor to The Champion Machine & Forging Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 27, 1921. Serial No. 510,933. 4 Claims. (Cl. 29—6.)



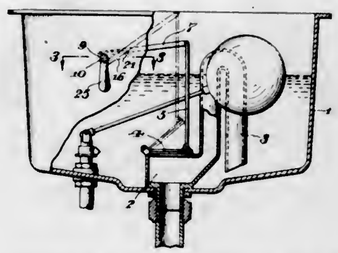
4. The method of making counterbalanced crank shafts which consists in forging the crank shaft with integral counterweights thereon, and subsequently changing the shape of the counterweights to cause them to be extended laterally a greater distance than when forged.

1,476,812. METHOD OF MAKING COUNTERBALANCED CRANK SHAFTS. LOUIS W. GREVE, Cleveland, Ohio, assignor to The Champion Machine & Forging Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 27, 1921. Serial No. 510,934. 3 Claims. (Cl. 29—6.)



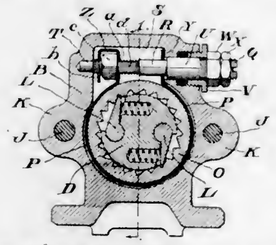
1. The method of making a counterbalanced crank shaft which comprises forging a crank shaft having arms with integral counterweights having extended outer portions substantially parallel with the axis of the crank shaft and tilted at an angle with respect to each other, and turning the counterweights so that the extended outer portions are transverse to the axis of the counterweight and at right angles to the arms.

1,476,813. VALVE-OPERATING MECHANISM FOR FLUSH TANKS. WILLIAM U. GRIFFITHS, Llanwellyn, Pa. Filed Dec. 23, 1922. Serial No. 608,623. 3 Claims. (Cl. 4—5.)



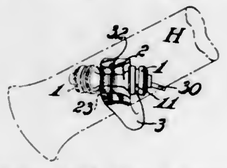
1. In combination, a valve, a stationary lever support, a lever slidably and pivotally supported upon said support, means for operating said lever to cause pivotal and sliding movement thereof upon its support, and means connecting the inner end of said lever with said valve whereby the said movements of said lever effect opening and closing of said valve.

1,476,814. ROTATION RELEASE FOR ROCK DRILLS. HENRI AUGUSTUS GUILEY, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 23, 1920. Serial No. 418,928. 2 Claims. (Cl. 121—7.)



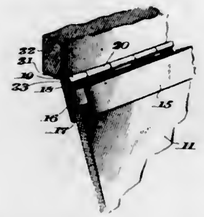
2. A rock drill of the hammer type having positive automatic rotation for a drill steel including a cylinder, a ratchet ring, a brake band cooperating with said ratchet ring and located within the cylinder, a bolt passing through the cylinder and both ends of said band, a nut on said bolt, one end of said band being secured on the bolt against relative movement and the other end being reversely bent on the bolt and enclosing said nut, said reversely bent end being adapted to be moved in either direction by engagement with said nut for tightening and loosening said brake to change from substantially positive to slip rotation.

1,476,815. UNDERCUTTING-SAW GUIDE. FREDRIK HALVORSEN, Seattle, Wash., assignor of one-half to Hjalmar S. Hanson, Seattle, Wash. Filed Apr. 12, 1922. Serial No. 551,966. 6 Claims. (Cl. 143—163.)



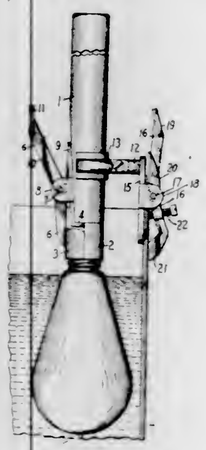
1. An undercutting-saw guide comprising a clevis adapted to be secured to an axe handle, an integral head angularly positioned with respect to the general plane of the clevis, and a guiding and supporting arm carried by said head.

1,476,816. WINDSHIELD. JACOB HAMMERL, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 1, 1920. Serial No. 421,012. 2 Claims. (Cl. 296—84.)



1. A one-piece, sheet metal frame member, substantially rectangular in section, and having a recessed portion adjacent one edge for receiving a sash, the free ends of said member being extended laterally and brazed together, one of said ends projecting beyond the other end and having spaced-apart, hinge members formed thereon.

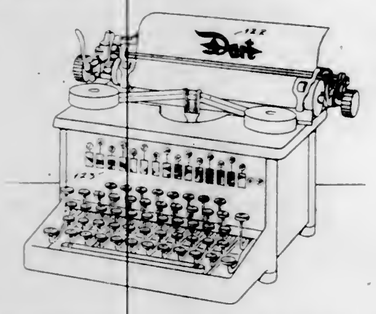
1,476,817. DEVICE FOR HANDLING ELECTRIC LAMPS AND THE LIKE. GEORGE E. HATFIELD, Dayton, Ohio. Filed June 21, 1922. Serial No. 570,043. 16 Claims. (Cl. 91—60.)



1. In a device of the character described, a handle, a two part socket carried by said handle, and adapted to receive the base of an electric lamp, one part of said socket being movable toward and from the other part thereof, and means for retaining the movable part of said socket in its operative position.

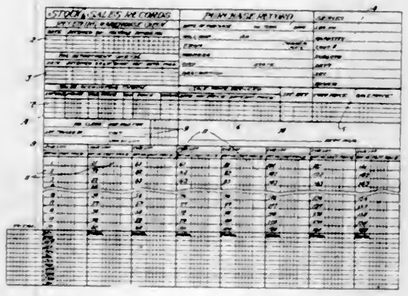
13. In a device of the character described, a handle, a socket carried by said handle to receive the base of an electric lamp, a supporting device having means for detachably securing the same to said handle, and comprising two members, one of which is movable toward and from the other, said members being adapted to clamp the edge of the receptacle between them.

1,476,818. SYSTEM OF TYPEWRITER NOTATION. CHARLES HERRMAN, New York, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 26, 1919, Serial No. 292,962. Renewed Aug. 7, 1922. Serial No. 580,310. 8 Claims. (Cl. 197—1.)



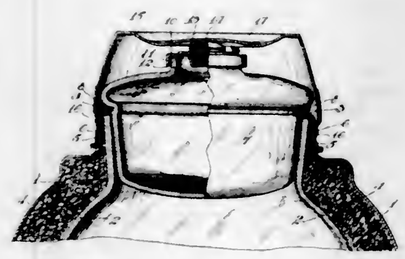
1. In a typewriting machine adapted to write a language, punctuation marks, numerals and conventional symbols, as additional thereto and cooperative therewith, means for reproducing a fixed, predetermined, individuality identifying symbol, comprising selectively operable type-faces carrying the suitably apportioned, fragmentary equivalents of the said symbol.

1,476,819. STOCK-RECORD AND SALES-ACCOUNTING SYSTEM. THOMAS B. HOPE, Chicago, Ill. Filed Apr. 14, 1921. Serial No. 461,231. 6 Claims. (Cl. 283—60.)



1. In a stock record and sales accounting system, a record sheet having a series of numbered spaces corresponding to the number of articles in a given group, and a series of tags adapted to be numbered similarly to an equal number of the aforesaid spaces, each tag containing two superimposed leaves for the purpose of permitting a duplicate sales record to be made, at least one of said leaves being detachable, and each of said leaves and said sheet having appropriately designated spaces to receive characters identifying said articles as belonging to the aforesaid group.

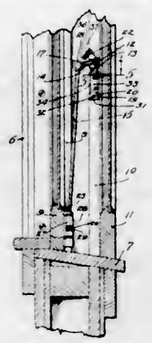
1,476,820. CUSHIONED VITREOUS STOPPER. VICTOR S. JOHNSON, Chicago, Ill., assignor to The Mantle Lamp Company of America, Chicago, Ill., a Corporation of Illinois. Filed Jan. 27, 1922. Serial No. 532,306. 14 Claims. (Cl. 215—12.)



1. A hollow frangible stopper provided with a centrally-disposed cushioning element secured to its top.

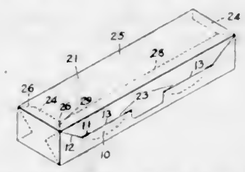
1,476,821. AUTOMATIC STORM-SASH OPERATOR. CHARLES W. KNIGHT, Minneapolis, Minn. Filed Aug. 16, 1922. Serial No. 582,285. 9 Claims. (Cl. 20—55.)

1. The combination with a window frame, a sliding sash and a swinging sash mounted in the window frame, of a pivoted cam-acting latch on the swinging sash, a latch-actuating rod attached to the sliding sash, and an abutment on the window frame with which said



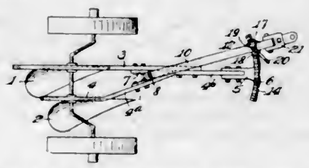
latch engages during the opening and closing movements of the sliding sash to impart respective opening and closing movements to the swinging sash.

1,476,822. PAPER LOCK. FERDINAND KRONENBERGER, New York, N. Y. Filed Aug. 22, 1921. Serial No. 494,316. 9 Claims. (Cl. 229—45.)



1. A closure comprising a flap having slits severing the material of said flap and directed inwardly from the edges thereof, and a receiving member having a slit cut therein substantially equal in length to the width of said flap at the slitted part thereof.

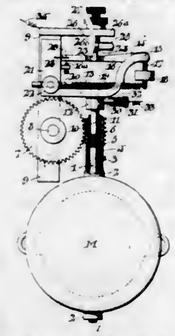
1,476,823. GANG PLOW. CHARLES P. LEE, St. Clairsville, Ohio. Filed Dec. 23, 1921. Serial No. 524,405. 3 Claims. (Cl. 280—33.11.)



1. In a gang plow, a beam, a second beam having a part thereof angularly disposed with respect to the first beam and connected thereto and terminating in a part extending beyond the first beam, a rack bar carried by said extended part of the beam, a draw bar pivotally connected to said bars behind said rack bar, said draw bar having means comprising a guide for relative movement between the draw bar and the rack bar, and a worm gear for moving said draw bar in relation to said rack bar.

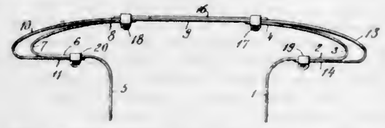
1,476,824. SPEED-CONTROL APPARATUS. MORRIS E. LEEDS, Philadelphia, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 22, 1919. Serial No. 272,435. 6 Claims. (Cl. 200—80.)

1. Speed control apparatus comprising a centrifugal governor, a contact, a resiliently yielding contact system, said contact and said system engaging each other in the axis of rotation of the rotating structure of said governor, said system having small mass and having a natural period of vibration longitudinally of the axis



of rotation of said governor which is at least as short as the time of one revolution of the rotating structure of said governor.

1,476,825. AUTOMOBILE BUFFER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Feb. 11, 1921, Serial No. 444,208. Renewed Sept. 5, 1922. Serial No. 586,858. 19 Claims. (Cl. 293—55.)



3. The resilient strip automobile buffer comprising a spring strip buffer front element having end loops and inturned rear connector portions and substantially parallel relatively straight front connector portions, attaching strips formed with attaching arms and parallel front and rear connector portions to be independently adjustable with respect to the corresponding connector portions of the buffer front element and formed with end loops adapted to be arranged inside of the end loops of said buffer front element and enclosing clamping devices connecting each of said attaching strips to said buffer front element at two laterally separated points.

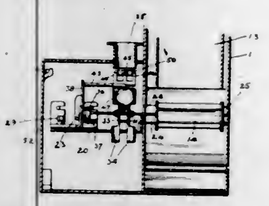
1,476,826. OVERBOOT. FREDERICK H. MARTIN, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Apr. 8, 1922. Serial No. 550,633. 6 Claims. (Cl. 36—45.)



1. A boot having foot and leg portions, a cuff at the top of the leg portions adapted to be turned downward against the leg portion or upward therefrom, and means for detachably connecting the ends of said cuff in either a folded-down or an upturned position.

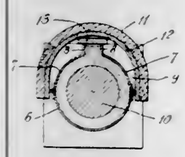
6. A boot having a foot portion, a leg portion formed with a cleft at its upper end, a cuff adapted to be turned downward against the leg portion or upward therefrom, said cuff terminating at one end substantially at one edge of said cleft and having a flap at its other end adapted to overlie said cleft in the down-turned position of the cuff, and means for detachably connecting the cuff ends in lapped relation.

1,476,827. VENDING MACHINE. JOHN D. MENG, Rochester, N. Y. Filed Jan. 2, 1923. Serial No 610,163. 2 Claims. (Cl. 194—85.)



1. In a vending machine, the combination of a magazine, a dispensing cylinder mounted in the bottom of said magazine, an operating mechanism adapted to rotate said dispensing cylinder, said operating mechanism comprising a shaft on which said dispensing cylinder is mounted, an operating wheel carried on said shaft having a circular channel centrally formed thereof and coin receiving means, a locking cam carried on said shaft, a bell crank loosely mounted on said shaft, a laterally projecting arm carried by said bell crank, a prong formed on the end of said arm and projecting into said circular channel of said operating wheel, said prong being adapted to engage a coin dropped into said coin receiving means, and means to rock said bell crank to swing said prong against the coin and advance said wheel with said coin.

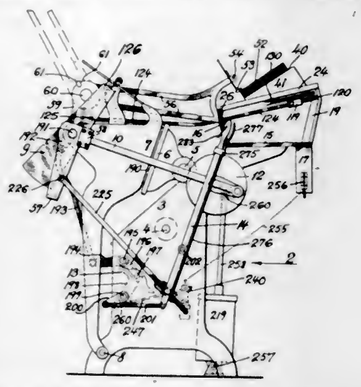
1,476,828. ANNEALING MASTIC PIPE. GUSTAV MONRATH, New York, N. Y., assignor, by mesne assignments, to The Barber Asphalt Paving Company, Philadelphia, Pa., a Corporation of West Virginia. Filed July 22, 1919. Serial No. 312,476. 10 Claims. (Cl. 18—58.)



6. The improvement in the casting of articles from molten asphalt mastic in a mold having an open trough at the top thereof which comprises slowly cooling the casting while in the mold from the bottom up and thereby maintaining the material in the upper portion of the mold in a fluid condition until the material in the bottom of the mold has set; substantially as described.

1,476,829. PRINTING MACHINE. LEWIS E. MORRISON, Newark, N. J., assignor to himself and S. Haines Plum, 2d, Madison, N. J. Substitute for application Serial No. 300,702, filed May 29, 1919. This application filed May 23, 1921. Serial No. 473,271. 14 Claims. (Cl. 101—287.)

1. In a printing machine, means for supporting the paper to be printed in an inclined position thereon, means for lifting said paper supporting means longitudinally of said machine into a position away from operative relationship with the said machine, and mechanism permitting said paper supporting means to be moved in a horizontal plane away from the said printing machine.

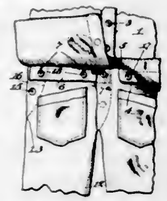


1,476,830. LOADING SPOUT. CHARLES E. NEWELL, Cedar Rapids, Iowa. Filed Dec. 26, 1922. Serial No. 609,008. 1 Claim. (Cl. 193—26.)



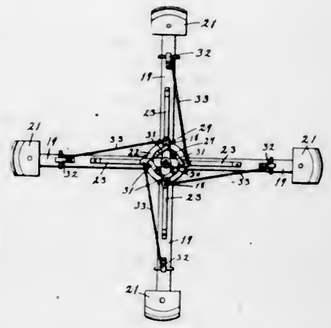
A loading spout including a plurality of tapered telescopic sections, and a connecting means for each pair of adjacent sections comprising a C-shaped hook mounted on the larger end of each section, and a chain length engaged with one end of the hook of one section and with the adjacent end portion of the hook of the next section within which the first section is telescoped.

1,476,831. GARMENT. GEORGE W. PEASE, Pittsfield, Mass. Filed Mar. 18, 1921. Serial No. 453,429. 4 Claims. (Cl. 2—144.)



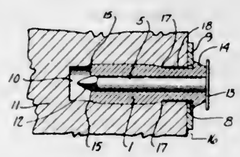
1. An article of the character described, comprising a blouse portion and a trousers portion, a depending element secured by one edge thereof to the inside of the blouse portion at approximately the waist line, means for detachably securing the trousers to the element, the blouse being open from the neck to the bottom edge thereof, the trousers having a fly opening in alinement with the blouse opening whereby when the portions are attached one to the other there will be an opening from neck to crotch, one end of said element extending into the fly opening, and means for removably securing the said end in position in the front center line of the garment.

1,476,832. MERRY-GO-ROUND. WILLIS T. PECK, Fort Des Moines, Iowa. Filed May 18, 1922. Serial No. 562,046. 4 Claims. (Cl. 46—27.)



1. A merry-go-round comprising a base, a vertical spindle thereon, a sleeve rotatably mounted on said spindle, beams secured to and radiating from said sleeve, a ratchet wheel mounted in stationary position, a member rotatably mounted on said spindle above said sleeve, pawls pivoted on said member and adapted to engage said ratchet wheel, levers pivoted on said beams, and pivotal connections between said levers and pawl-carrying member.

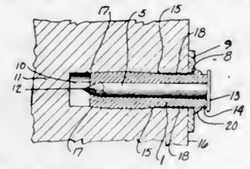
1,476,833. NAIL EXPANSION. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry B. Newhall. Filed Oct. 22, 1921. Serial No. 509,609. 5 Claims. (Cl. 85—2.4.)



1. A nail expansion comprising a non collapsible anchor or body member formed of ductile material and having two sets of expanding means adapted to be operated successively, the first set of expanding means being located near the inner end of the anchor or body member to obtain the maximum expansion or grip back from the face of the wall or other suitable support, and the other set of expanding means being located at the head of the anchor or body member and adapted to be operated by the head of a nail.

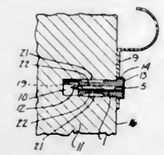
1,476,834. NAIL EXPANSION. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry B. Newhall. Filed Oct. 22, 1921. Serial No. 509,610. 6 Claims. (Cl. 85—2.4.)

1. A ductile nail anchor having a continuous axial bore extending from end to end of the anchor and closed except at its ends, one or more stops on the exterior of the anchor to prevent it being entirely passed through



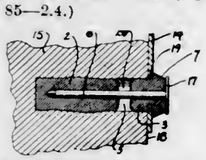
the work and into a hole in a wall or other suitable support, and a separate integral ductile member or extension on the exposed end of the anchor.

1,476,835. NAIL EXPANSION. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry B. Newhall. Filed Oct. 22, 1921. Serial No. 509,611. 3 Claims. (Cl. 85—2.4.)



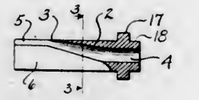
1. A nail anchor having a continuous unbroken axial bore extending from end to end of the anchor and provided with exterior grooves, and with interior grooves to permit the ready expansion of the anchor, said grooves alternating with relation to each other.

1,476,836. NAIL-EXPANSION METHOD. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry B. Newhall. Filed Dec. 2, 1921. Serial No. 519,466. 4 Claims. (Cl. 85—2.4.)



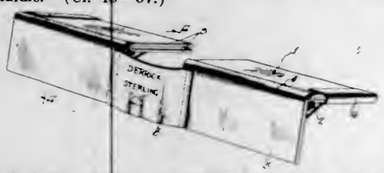
1. The method of securing an object to a wall or other suitable support consisting in forming a hole of the required diameter in the wall, inserting a breakable nail expansion provided with an axial bore, driving a nail into the axial bore and breaking the nail expansion into at least two parts, forcing one of the broken parts into contact with the bottom of the hole, and then expanding it removed from the outer surface of the wall where the force of expansion would tend to chip or crack the surface around the hole, the other broken part serving to center the nail.

1,476,837. NAIL FASTENER. HENRY W. PLEISTER, Westfield, and JOHN KARITZKY, Garwood, N. J., assignors to Henry B. Newhall, Plainfield, N. J. Filed Jan. 29, 1923. Serial No. 615,630. 15 Claims. (Cl. 85—2.4.)



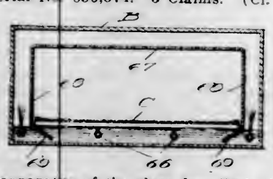
1. An article of manufacture comprising a nail fastener having an expansible body provided with means to permit it to expand as a nail is driven into it and also provided with an inclined bore extending to the periphery of the expansible body.

1,476,838. BOOKREST. ALLEN H. PRATT, Philomath, Oreg. Filed Jan. 27, 1923. Serial No. 615,255. 8 Claims. (Cl. 45—57.)



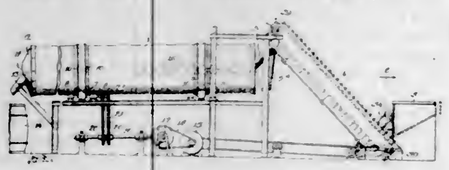
1. A book support comprising attaching means for assemblage with the cover boards of the book back, supporting members swingingly movable with relation to the said attaching means, and means extending between and connecting the said members and designed to be slackened upon opening of the book to swing the supporting members to active position and to be rendered taut upon closing of the book to swing the said supporting members to collapsed position against the said back.

1,476,839. COOKER. CLIFFORD J. PUGH, Salem, Oreg. Original application filed Nov. 20, 1922, Serial No. 602,080. Divided and this application filed July 9, 1923. Serial No. 650,374. 3 Claims. (Cl. 126—272.)



1. In an apparatus of the class described, the combination with a box, a conveyor travelling therethrough, a screen disposed over the conveyor, a portion of the screen above the conveyor being perforated, said screen being provided with imperforate walls extending below the conveyor, and steam pipes arranged within the box below the conveyor and at opposite sides of the screen.

1,476,840. POLISHING MACHINE FOR COATED CONFECTIONS. WILLET B. RANNEY, Chicago, Ill., assignor to Wm. Wrigley Jr. Company, Chicago, Ill., a Corporation of West Virginia. Filed June 5, 1922. Serial No. 565,977. 11 Claims. (Cl. 91—7.)

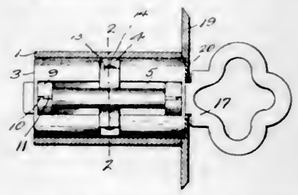


2. A polishing machine comprising a cylindric casing rotative axially in substantially horizontal position, the interior of said casing being lined with a layer of polishing substance.

8. A polishing machine comprising a cylindric casing adapted to revolve axially and in a substantially horizontal position and having a lining of polishing substance, a supporting frame for said casing, and intermediate rollers, a feed hopper comprising an agitator adjacent the delivery opening therefrom, a conveyor extending from said feed hopper to one end of said casing, and driving mechanism for said casing, agitator and conveyor.

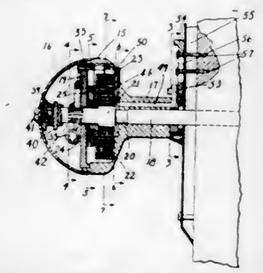
11. A method for polishing articles of the character described, consisting of feeding said articles into a revolving casing having its surface coated with a polishing substance, said articles being advanced through said casing and discharged from the opposite end.

1,476,841. KEY LOCK. HARRY RAYMOND, East Syracuse, N. Y. Filed Feb. 7, 1923. Serial No. 617,584. 2 Claims. (Cl. 70—46.)



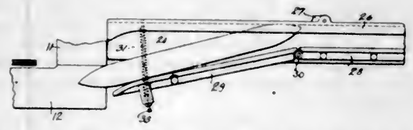
1. In a lock of the class described, a casing, a block rotatable in the casing and provided with a channel, a tumbler slidable in the channel and provided with projecting pins extending toward the bottom of the channel, a key insertable in the channel having apertures therein to receive the pins, said casing provided with a groove, a roller journaled on the tumbler, and spring means normally holding the tumbler in a position whereby the roller engages the interior of the casing, said pins piercing the apertures of the key when the roller is out of the groove of the casing and vice versa.

1,476,842. THEFT-SIGNAL DOOR KNOB. BENJAMIN A. NORTH and LUTHER C. RISHEL, Los Angeles, Calif. Filed Aug. 19, 1922. Serial No. 582,983. 2 Claims. (Cl. 116—10.)



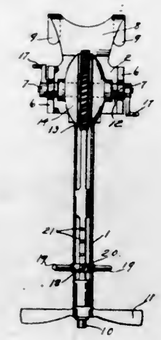
2. A signal of the character described comprising a spindle, a knob portion on the spindle including an extension section and a bell section, a tapper for the bell section, a spring mechanism within the extension section, teeth formed on the spindle, a pawl adapted to cooperate with said teeth for preventing unwinding of the spring mechanism, an escapement between the tapper and spring mechanism, means normally acting to prevent actuation of the escapement, and means operable by a turn of the knob portion for releasing said means.

1,476,843. SHUTTLE BOX FOR PILE-FABRIC LOOMS. WILLIAM W. ROBERTSON, Worcester, Mass., assignor to Crompton & Knowles Loom Works, a Corporation of Massachusetts. Filed Sept. 25, 1922. Serial No. 590,300. 5 Claims. (Cl. 139—183.)



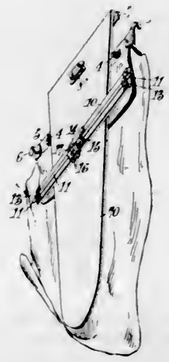
5. In a loom having a lay and a relatively movable lay end, a shuttle box having a binder at its rear side and having a two-part box plate at the front side, one member of said box plate being fixed to the lay end and the second member being yieldingly mounted and being pivoted at one end to said first member.

1,476,844. PROPELLING DEVICE FOR SWIMMERS. EDWARD F. RODMAN, Kansas City, Mo. Filed July 16, 1923. Serial No. 651,812. 2 Claims. (Cl. 9—18.)



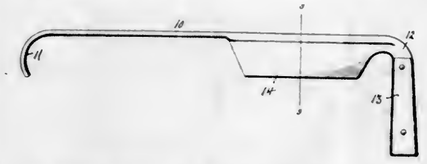
1. A propelling device for swimmers, comprising an elongated housing member, a shaft revoluibly mounted in said housing member and having within the housing a worm gear and without the housing a propelier, a worm wheel revolubly mounted on said housing member and engaging the worm gear on said shaft, means associated with the shaft of said worm wheel adapted for driving the latter, a foot rest slidably and adjustably arranged on said housing member, and shoulder braces associated with said housing member, said shoulder braces together with said foot rest providing means for holding the device on the body of the operator.

1,476,845. WARDROBE TRUNK. HENRY W. ROUNTREE, Richmond, Va., assignor to H. W. Rountree & Brother Trunk & Bag Company, Incorporated, Richmond, Va. Filed Jan. 5, 1923. Serial No. 610,875. 4 Claims. (Cl. 190—13.)



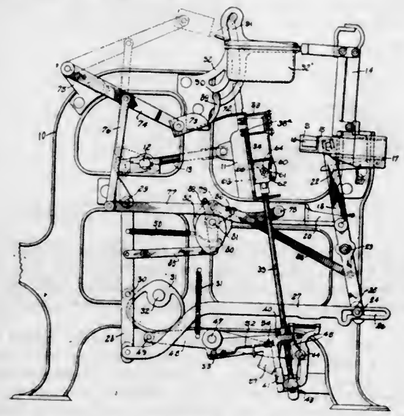
1. In a wardrobe trunk having a clothes compartment with a pair of hanging trolleys at the opposite sides of said compartment, a laundry bag of dimensions to substantially conform to said compartment and having a hanger strip at its upper end with means for hooking over said trolleys, and a follower board having means to hook over said hanger strip and being of less width than said hanger strip, means on said hanger strip for centering said follower board on the hanger strip and a latch member for securing the follower board in place to the sides of the trunk.

1,476,846. TOPPING KNIFE. JOE J. RUNDELL, Pierceville, Kans. Filed Feb. 23, 1921. Serial No. 447,047. 2 Claims. (Cl. 30—9.)



1. A topping knife for the purpose set forth formed from a single piece of material and comprising an elongated rigid stock having its forward terminus provided with an integral laterally projecting hook and its rear terminus provided with an integral laterally directed handle support of greater length than the length of the hook, and a cutting blade integral with an projecting laterally from the stock, said blade positioned between the transverse center of the stock and said support, the rear edge of said blade being spaced from said support, and said hook, blade and support projecting from the same side of the stock.

1,476,847. SHUTTLE-CHANGING LOOM. EPPA H. RYON, Waltham, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 1, 1920. Serial No. 414,046. 17 Claims. (Cl. 139—239.)

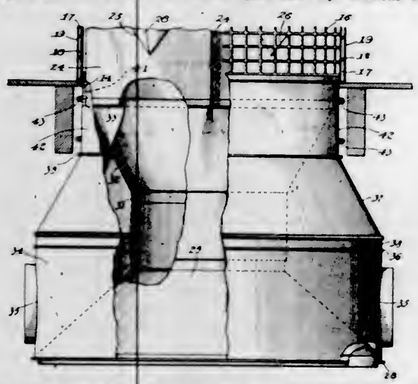


1. A shuttle changing loom having, in combination, a shuttle magazine, a shuttle holder having a normally fixed rearward position, a lay, a shuttle box movably mounted thereon, an auxiliary shuttle box adjacent thereto, and means to bring either box into operative position, vertical movement of said auxiliary box being effective to remove the fresh shuttle from the shuttle holder while the latter is in its normal rearward position and to place said shuttle in operative position on the lay solely by such vertical movement.

1,476,848. HEATING DEVICE. ALBERT G. SCHERER, Chicago, Ill., assignor to Excelsior Steel Furnace Company, Chicago, Ill., a Corporation of Illinois. Original application filed Apr. 19, 1920, Serial No. 374,892. Divided and this application filed Apr. 10, 1922. Serial No. 550,974. 3 Claims. (Cl. 126—99.)

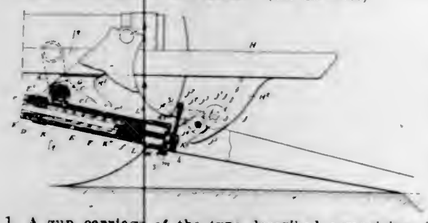
1. The combination with a register structure and a conduit leading into the same, of a furnace casing of cylindrical shape, a bonnet mounted upon the top thereof and having a central opening, telescoping pipes connected

respectively to said bonnet around said opening and to said conduit, a cylindrical wall extended above said casing, a second bonnet mounted upon said cylindrical wall



and having rotative movement with respect thereto, and a wall substantially conforming to the contour of said register and second bonnet clamped to the adjacent edges thereof.

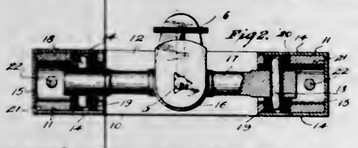
1,476,849. GUN CARRIAGE HAVING A CRANKED CARRIAGE AXLE. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint Stock Company of France. Filed Apr. 30, 1923. Serial No. 635,723. 9 Claims. (Cl. 89—40.)



1. A gun carriage of the type described comprising, in combination, a cranked axle, resilient means for rotating said axle, elevating mechanism for rendering said means operative, and means for rendering said resilient means ineffective for rotating said axle.

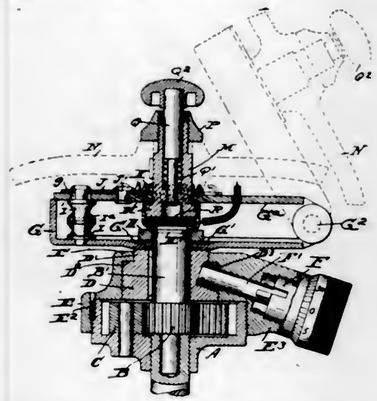
9. A gun carriage comprising a cranked axle, means for rotating said axle and for counterbalancing the oscillating mass, and elevating mechanism for rendering said means effective, said means being adapted to serve as an elastic suspension for said gun carriage during road transport.

1,476,850. STYLUS MOUNTING FOR REPRODUCERS. CARL SCRABIC, Urbana, Ohio. Filed Apr. 3, 1922. Serial No. 548,977. 5 Claims. (Cl. 274—35.)



1. In a sound reproducer for talking machines, a casing, spaced bearings provided upon said casing, a stylus bar movable with respect to said casing, outwardly extending trunnions fixed to said stylus bar and arranged to be received within said bearings, transversely extending pins carried by the outer ends of said trunnions, and compressible means situated in said bearings in engagement with said pins.

1,476,851. TILTING STEERING WHEEL FOR MOTOR-DRIVEN VEHICLES. PAUL SZYDLOWSKI, Detroit, Mich. Filed May 17, 1922. Serial No. 561,565. 8 Claims. (Cl. 74—33.)



1. In a device of the character described; a steering wheel shaft; a collar keyed to the steering wheel shaft; a bracket secured to the collar, whereby the bracket, collar and shaft may operate as a unit; a cover plate hinged to the bracket; an aligned extension of the steering wheel shaft secured to the cover plate, a steering wheel mounted on said extension of the steering wheel shaft; means for locking said hinged cover plate to the bracket, and manually operated means for releasing said locking means.

1,476,852. BELT FASTENER. JOHN HOWARD TABLER, Washington, D. C. Filed July 3, 1922. Serial No. 572,411. Renewed May 7, 1923. 5 Claims. (Cl. 24—35.)

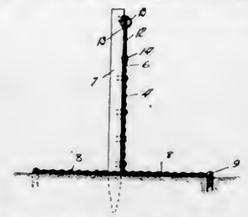


1. A belt fastening device of malleable metal comprising side pieces and companion cross-pieces spaced apart between said side pieces at each end of the device, whereby the inner one of each set of companion cross-pieces receive an end of the belt in looped engagement therewith and the side pieces adapted to be upset to clamp said looped end of the belt between the cross-pieces and side pieces.

1,476,853. FENCE CONSTRUCTION. WILLIAM B. TABOR, New Douglas, Ill. Filed May 13, 1920. Serial No. 381,059. 1 Claim. (Cl. 256—1.)

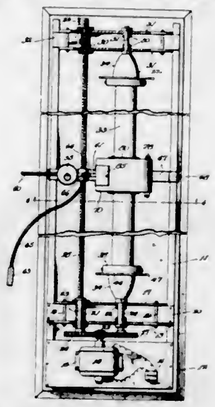
The combination with an ordinary fence, of anti-burrowing means comprising strips of wire fabric spread upon the surface of the ground at the base of the fence and

upon opposite sides thereof, the cross wires of said strips of wire fabric being formed at their inner ends with bent over portions, said bent over portions forming hooks for



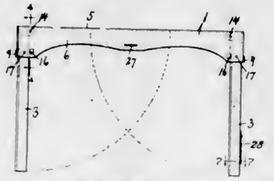
detachably connecting said strips of wire fabric to the fence, the outer edges of said strips being anchored to the ground.

1,476,854. FLUE-CLEANING APPARATUS. DEWIT N. TILLEY, Mount Airy, N. C. Filed Nov. 3, 1922. Serial No. 598,869. 10 Claims. (Cl. 51—15.)



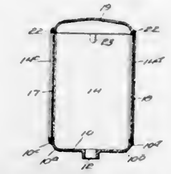
1. Apparatus of the class described comprising a frame, a clamping head revolubly mounted at one end of said frame, a second clamping head similarly mounted at the other end of the frame and in axial alinement with said first clamping head, a drum slidably mounted in said frame between said heads and in axial alinement therewith, and means for introducing a blast into said drum.

1,476,855. COLLAPSIBLE SAWHORSE. MAURICE J. TOPP, Manlius, N. Y., assignor of one-third to William C. Clark and one-third to Alexander R. Hammerle, both of Syracuse, N. Y. Filed May 6, 1921. Serial No. 467,424. 6 Claims. (Cl. 304—5.)



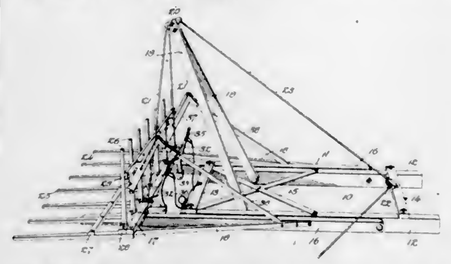
1. In a horse of the character described, the combination of a top rail having downwardly flaring lengthwise sides, a pair of yokes pivoted to and between said sides near the ends thereof, separate pairs of legs pivoted to said yokes to swing toward and from each other into and out of engagement with said sides, and toggle connections between the legs of each pair.

1,476,856. GASOLINE-DISPENSING APPARATUS. CHARLES E. TUCKER, York, Pa. Filed Dec. 7, 1921. Serial No. 520,607. 4 Claims. (Cl. 220—82.)



1. In a dispensing chamber for gasoline dispensing devices and the like, a metal casing open at its top and opposite sides and formed with channels co-extensively with the walls of the open sides and the bottom thereof, flat transparent plates closing the open sides of said casing and having their opposite side and lower end edges engaged in the said channels, packing disposed within the said channels and about the engaged edges of said transparent plates, and a cover removably closing the open top of said casing.

1,476,857. HAYSTACKER. BEERI H. TUTTLE, Absarokee, Mont. Filed May 11, 1922. Serial No. 560,232. 5 Claims. (Cl. 214—131.)

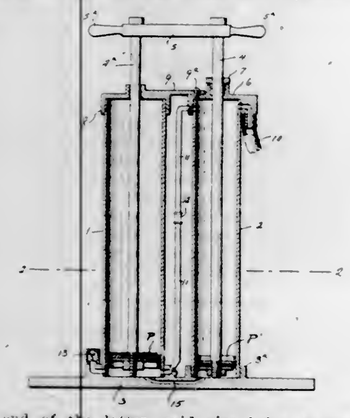


1. A stacker for hay and other materials including a base, a frame pivoted to said base for swinging movement, a fork comprising relatively pivoted bottom and rear portions, links pivotally connecting the frame with the bottom portion of said fork, and means for moving the fork longitudinally of the frame when the frame is swung with respect to the base whereby tilting movement is imparted to the fork by said links.

1,476,858. COMPOUND HAND AIR-COMPRESSING PUMP. TEDDIE C. VANDEBERG, Epping, N. Dak. Filed Feb. 19, 1923. Serial No. 619,887. 2 Claims. (Cl. 230—27.)

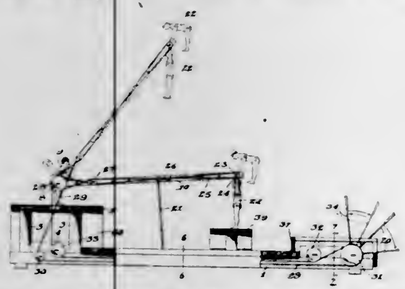
1. A compound hand air compressing pump comprising a relatively large low compression cylinder, a relatively small high compression cylinder, a piston within the low compression cylinder constructed to have effective compressing action only upon downward movement thereof, a piston within the high compression cylinder constructed to have effective compression action only upon the upward stroke thereof, a base provided with upstanding circular flanges in which the lower ends of said cylinders are removably secured, an air intake check valve communicating with the lower end of the low compression cylinder, said base having a passage forming direct communication between the lower ends of both cylinders, a removable cap for the low compression cylinder having a central opening, a piston rod loosely passing through the opening of the cap of the low compression cylinder and carrying the piston of the last named cylinder upon its lower end, a removable cap for the high compression cylinder having a central opening surrounded by a packing gland, a piston rod having a

working fit in the gland of the last named cap and having the piston of the high compression cylinder fixed on the lower end thereof, a handle rigidly connecting the upper ends of the piston rods above the cylinders with the pistons of both cylinders positioned in the same horizontal plane, a pipe providing communication between the interior of the low compression cylinder at the lower end of the latter and the high compression cylinder at the



upper end of the latter, said pipe being arranged between the cylinders and having a check valve therein permitting free flow of air from the low compression cylinder to the high compression cylinder and preventing return of air from the high compression cylinder to the low compression cylinder, said high compression cylinder having a compressed air outlet in its upper end.

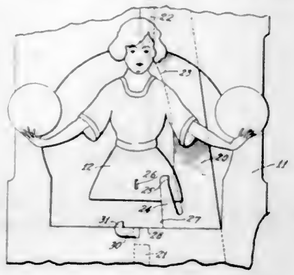
1,476,859. TOY. HENRY ALBERT VAUGHAN, Selma, Ala. Filed July 29, 1921. Serial No. 488,444. 5 Claims. (Cl. 46—40.)



1. A device of the class described including a base member, a mannikin mounted above one end of the base member, said mannikin having a portion of its body stationary and another portion movable, a ladder member supported by the stationary portion of the body and having engagement with the movable part, manual, controlled, means for imparting movement to the movable portion of the mannikin, whereby to raise and lower said ladder, a second mannikin connected with the outer end of the ladder and independent, manual, controlled, means for imparting movement to the second mannikin whereby to cause the same to assume various positions with respect to the ladder.

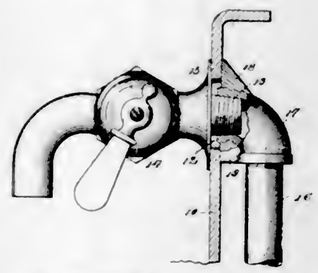
1,476,860. DISPLAY STAND. ALBERT W. P. VERGEER, New York, N. Y. Filed May 2, 1921. Serial No. 466,089. 10 Claims. (Cl. 211—24.)

1. A display stand, comprising a poster forming a continuous frame and an internal flap integral with the frame and extending from an inner edge of the frame and adapted to be bent backwardly from the frame, and a support hinged to the back of the frame and having a portion adapted to lie in front of said flap when the



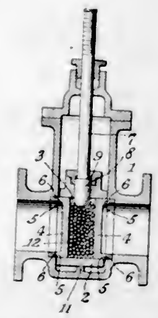
support is folded against the frame and to bend said flap backwardly from the frame when the support is extended at an angle to the frame.

1,476,861. PIPE FITTING. GEORGE J. VON GLAHN, Brooklyn, N. Y. Filed Aug. 22, 1921. Serial No. 494,223. 2 Claims. (Cl. 285—30.)



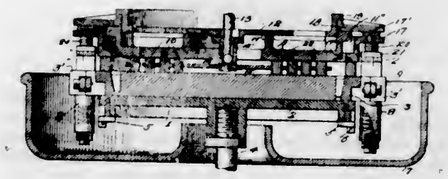
1. A fitting comprising a coupling having a plurality of radial lugs, arranged diametrically opposite each other around its mouth and larger than the diameter of the body of the coupling and integral therewith and adapted to bear against the wall of the member to which it is to be attached at diametrically opposite points.

1,476,862. VALVE. HANS WAGNER and WILHELM STRUBE, Magdeburg, Germany, assignors to Nathan Manufacturing Company, New York, N. Y. Filed July 19, 1922. Serial No. 575,938. 6 Claims. (Cl. 251—68.)



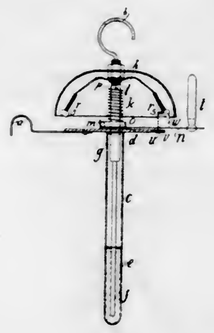
3. A valve which is seated by means of hydrostatic-like pressure applied by solid matter contained within a chamber adjacent to the valve face.

1,476,863. MACHINE FOR MAKING TRUE PLANE SURFACES. FLOYD C. WEAVER, Washington, D. C. Filed Jan. 17, 1922. Serial No. 530,007. 5 Claims. (Cl. 51—130.)



1. In a device of the character described, the combination of a work carrying plate, means for supporting and revolving the carrying plate, a master plate resting upon the upper surface of the carrying plate, an auxiliary ring fitting over the periphery of the work carrying plate and extending above and below the carrying plate, cleats carried by the auxiliary ring and fitting under the carrying plate for binding the ring in position, wedges carried between the auxiliary ring and the periphery of the master plate for binding the master plate in a set position upon the carrying plate, and a rotatable and vertically movable lapping plate carried above the master plate, as and for the purposes set forth.

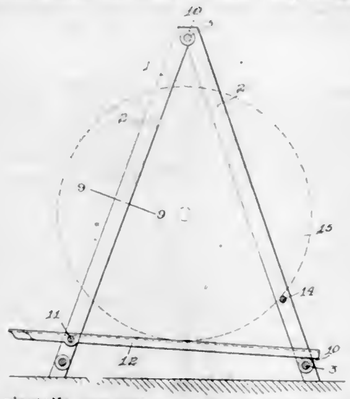
1,476,864. TEMPERATURE ALARM APPARATUS. CLIFTON WEST, London, England. Filed Apr. 23, 1923. Serial No. 634,089. 2 Claims. (Cl. 116—106.)



2. Temperature alarm apparatus comprising a tube with a closed end, a rotatable rod within said tube and its lower end fixed therein by a fusible substance a spring encircling the upper end of said tube, one end of said spring being attached to said rod, an operating lever to which the other end of said spring is anchored, a bell rigidly attached to said rod, a plurality of radiating arms also attached to said rod and having hammers flexibly attached to their ends and a bracket carried by said operating lever and forming an obstruction in the path of said radiating arms.

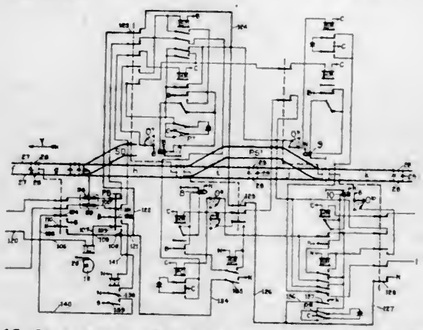
1,476,865. RACK FOR TALKING-MACHINE RECORDS. EWALD W. WEYRAUCH, Rochester, N. Y. Filed Jan. 31, 1921. Serial No. 441,186. 2 Claims. (Cl. 211—16.)

2. A rack for talking machine records comprising partitions having reinforcing strips at their front and rear edges, tie-rods extending through said reinforcing strips and connecting said partitions, a pivot rod extending through the forward reinforcing strips, and



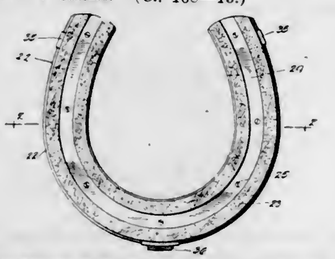
levers pivotally mounted on said rod and having their rear ends supported by a tie-rod extending through the rear reinforcing strips.

1,476,866. SWITCH PROTECTION FOR BLOCK-SIGNAL SYSTEMS. SEDGWICK N. WIGHT, Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed Nov. 3, 1920. Serial No. 421,453. 34 Claims. (Cl. 246—160.)



17. In a system of the character described, the combination with an outlying switch and a short track circuit opposite the facing point of the switch and having a track relay, an electric lock, and an energizing circuit for said lock including a back contact for said track relay.

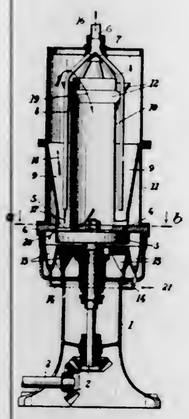
1,476,867. HORSESHOE. CHRISTIAN J. WUNDERLICH, Mitchell, S. Dak. Filed Apr. 10, 1922. Serial No. 551,074. 7 Claims. (Cl. 168—13.)



1. A horseshoe comprising a metallic channel, shaped to fit a hoof and opening downwardly, a band of fabric

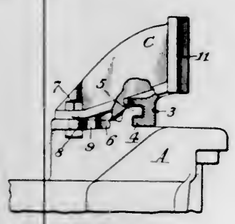
and rubber compound folded in said channel with its edges protruding beyond the channel edges, and means for securing said band to the channel, and including a metal strip between said protruding edges.

1,476,868. FEEDING DEVICE FOR DISINTEGRATING MACHINES OR SIMILAR WORKING MACHINES. LUDWIG BARTMANN, Berlin, Germany, assignor to N. V. Maatschappij tot Exploitatie van Bartmann Patenten, 's Gravenhage, Netherlands, a Dutch Corporation. Filed Apr. 8, 1921. Serial No. 459,733. 6 Claims. (Cl. 83—4.)



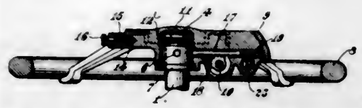
1. In a pneumatic feeding device for disintegrating machines or the like the combination with a disk shaped disintegrating tool and a plate cooperating therewith and spaced a suitable working distance apart therefrom, said plate having a plurality of apertures bottomed by said tool and adapted to supply the material directly to said tool, an air suction device having a plurality of supply pipes for individually and directly feeding the material to said apertures, an inverted cone shaped casing surrounding said supply pipes for leading the air eminating from said pipes in a direction opposite to that in which the material is fed and to reduce the speed of the air current to permit its separation from the material and means for removing the disintegrated material from said tool.

1,476,869. BUFFER. ARTHUR J. BAZELEY, Cleveland, Ohio, assignor to The National Malleable Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 18, 1919. Serial No. 345,798. 2 Claims. (Cl. 213—2.)



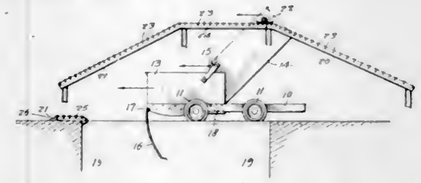
1. The combination with a movable coupler head of a buffer, means for rigidly securing said buffer to said head, said means including an interlocking engagement between parts of the coupler head and buffer.

1,476,870. STEERING GEAR. GEORGE A. BILGERE, St. Louis, Mo. Filed Jan. 17, 1921. Serial No. 437,825. 27 Claims. (Cl. 74—33.)



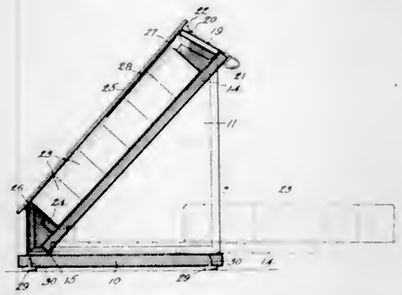
1. A steering gear, comprising, a shaft, a wheel mounted for free rotation and for movement to operative and inoperative position, means for fixing said wheel against rotation on said shaft, lock controlled means adapted to retain and guard said wheel in inoperative position and against unauthorized manipulation, and means operated upon movement of said wheel to inoperative position adapted to release the same rotatively and effect cooperation with said lock controlled means.

1,476,871. DUMPING VEHICLE. ROBERT C. BLEDSOE, Liggett, Ky., assignor of one-half to Gale D. Bengy, Liggett, Ky. Filed May 20, 1922. Serial No. 562,397. 7 Claims. (Cl. 214—58.)



1. In combination, a wheel supported frame, a relatively stationary body portion carried by the frame and provided with a hinged bottom, a tiltable body portion carried by the frame and having a lip supporting the free end of said hinged bottom, the tilting of said tiltable body releasing said hinged bottom, and means for tilting said tiltable body.

1,476,872. DISPLAY CASE. ARTHUR R. BOAL and CHARLES O'BRIEN, New York, N. Y. Filed Oct. 1, 1921. Serial No. 504,645. 1 Claim. (Cl. 211—28.)

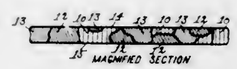


A display case comprising a box-like structure having an open back and a rearwardly inclined front wall of transparent material, a support adapted to hold a plurality of articles pivotally mounted within the case and adapted to be held in display position beneath the said front wall and to be swung downwardly to permit removal of the articles of merchandise therefrom, means for holding the support in display position and means for masking the upper portion of said support.

1,476,873. PROCESS OF RECOVERING VALUABLE COMPONENTS FROM A COMPLEX LIQUID PHASE. GEORGE B. BURNHAM, Glendale, Calif. Filed Nov. 3, 1919. Serial No. 335,493. 14 Claims. (Cl. 23—22.)

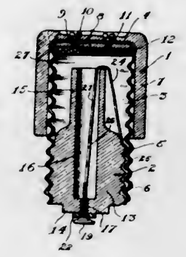
1. The process of recovering at least one component from a liquid phase containing at least three components which consists in bringing the liquid phase to supersaturation and causing the supersaturated liquid phase to deposit at least two solid phases in the same container and separately recovering at least one of the solid phases.

1,476,874. PROCESS OF MAKING MOTTLED COLOR SCREENS. ARTHUR W. CARPENTER, New York, N. Y. Filed Nov. 15, 1919. Serial No. 338,343. 2 Claims. (Cl. 95—81.5.)



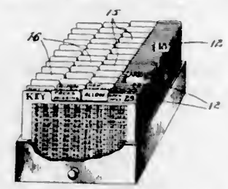
1. The method of making mottled color screens which consists in assembling a plurality of varicolored members in such manner as to form a mass or aggregate which presents a plurality of said varicolored members in every dimension and which is substantially without interstices between adjacent varicolored members thereof shaping the colored mass or aggregate and cutting the mass or aggregate thus shaped into relatively thin laminæ or screen members.

1,476,875. RENEWABLE FUSE PLUG. JOHN G. CLEMENS, Buffalo, N. Y., assignor, by mesne assignments, to Edwin D. Cahill, Hamilton, Ontario, Canada. Filed Sept. 11, 1920. Serial No. 409,621. 1 Claim. (Cl. 200—130.)



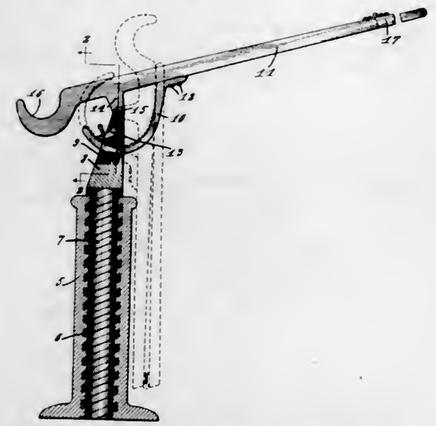
A renewable fuse plug comprising a metallic shell closed at one end and open at its opposite end and provided in its wall with threads, a threaded body of insulating material removably fitted into the open end of the shell and provided with a bore extending longitudinally thereof and constituting an explosion chamber, the bore opening through the inner end of the said body, the body being reduced in diameter throughout its inner portion to provide a neck of considerably less diameter than the interior of the shell and consequently considerably spaced from the wall thereof, the end of the neck being spaced from the closed end of the said shell whereby an expansion chamber is provided in direct communication with the explosion chamber in the body, and a fusible element having one end extending through the closed outer end of the body and being led through the explosion chamber and over the end of the neck and disposed at its other end between the outer side of the said body and the wall of the shell and in electrical contact with the latter.

1,476,876. MEANS EMPLOYED IN COMPILATION. LEONARD S. CRONE, New York, N. Y. Filed Nov. 4, 1920. Serial No. 421,706. 1 Claim. (Cl. 283—1.)



A set of cards for use in compiling readable matter comprising a card having recorded thereon standardized paragraphs, an identifying character for each paragraph, and a designating symbol for each card, an additional card having indicated spaces thereon in which are recorded certain card symbols and paragraph characters whereby when the several paragraphs indicated are combined a complete letter is formed.

1,476,877. AUTOMOBILE JACK. VAN VINCENT CURTIS, McAllen, Tex. Filed Feb. 8, 1923. Serial No. 617,763. 1 Claim. (Cl. 254—129.)



A lifting jack including a base, a threaded shaft movable through the base and having a head, said head having a cut out portion, a lever pivotally supported by the head, a curved ratchet bar secured to the lever and movable between the walls of the cut out portion, the ratchet bar having teeth formed on the upper surface thereof, a pawl pivotally supported within the walls of the cut out portion and disposed above the ratchet bar, said pawl adapted to automatically fall by gravity into engagement with the ratchet bar to lock the lever in its positions of adjustment, and said lever having a curved article engaging extremity.

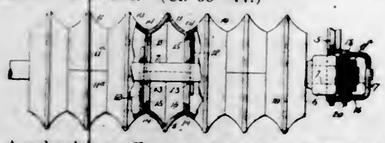
1,476,878. TIRE. MORLAND MICHOLL DESSAU, London, England. Filed Oct. 29, 1923. Serial No. 671,558. 6 Claims. (Cl. 152—1.)



2. A tire comprising a strip of natural smoked sheet plantation rubber, a narrower strip of similar rubber secured thereto, and a filling of cellular material, the

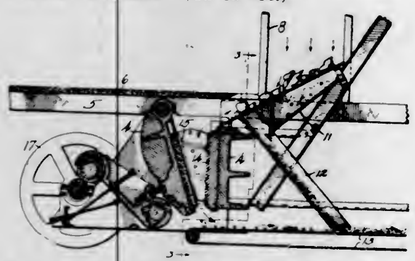
marginal portions of the wider strip being turned or rolled over the narrower strip and over the cellular filling so as to enclose each of the latter, to form a tire approximately circular in cross section, substantially as described.

1,476,879. AGRICULTURAL IMPLEMENT. WILLIAM D. DEWEND, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Original application filed June 22, 1921, Serial No. 479,610. Divided and this application filed Feb. 13, 1922. Serial No. 536,147. 3 Claims. (Cl. 55—77.)



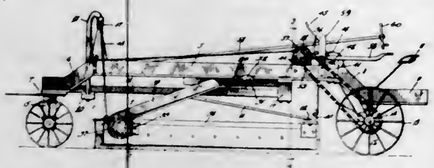
1. A pulverizing roller comprising a shaft and two sets of disks, the disks of one set mounted on said shaft and alternating with the disks of the other set, the disks of the last-mentioned set each comprising a plurality of parts having interlocking connection with the disks of the first-mentioned set.

1,476,880. GRAVEL CRUSHING AND SCREENING DEVICE. HORATIO S. EARLE, Detroit, Mich., assignor to Acme Road Machinery Co., Frankfort, N. Y., a Corporation of New York. Filed Sept. 25, 1919. Serial No. 326,176. 5 Claims. (Cl. 83—53.)



1. In a gravel crushing and screening machine, a crusher adapted to crush material discharged thereinto to certain fineness, a screen member providing a conveyor for material to the crusher, an elevator conveyor extending to one side of the machine for delivering material of various sizes to the screen conveyor wherein the large material is discharged to the crusher and the finer material passed through the screen, a driven conveyor member to which the crusher discharges, and a chute delivering the screened material to said driven conveyor.

1,476,881. ROAD GRADER. NATHAN W. FINCH, Springfield, Ill., assignor of one-half to Stephen A. Bradley, Springfield, Ill. Filed Jan. 18, 1923. Serial No. 613,450. 3 Claims. (Cl. 37—154.)



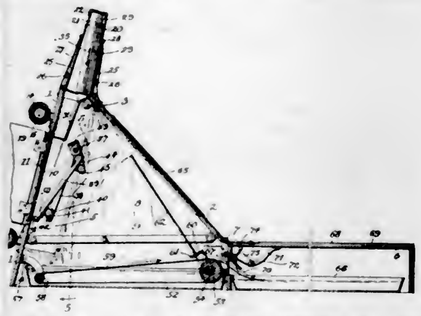
1. In a road scraping machine, a frame, laterally movable scraping blades supported under the frame, supporting bars having connection with the scraping blades, carriages movable on the frame, said carriages having pivotal connection with the supporting bars, each of said carriages having an upwardly extending end portion, pivoted locking members associated with the carriages and having notches, said pivoted locking members adapted to be moved to cause the upwardly extended end portions of the carriages to lie within notches of the locking members to restrict movement of the carriages, and means for permitting lateral movement of the scraping blades.

1,476,882. APPARATUS FOR LOADING COAL. JOHN A. FORSYTH, Nemacolin, Pa., assignor of one-fourth to Clyde J. Smith, Uniontown, Pa. Filed Oct. 19, 1921. Serial No. 508,712. 21 Claims. (Cl. 198—92.)



1. In combination, a conveyer unit adapted to receive and convey coal, and means for supporting the said unit over a mine track and parallel thereto, the said supporting means comprising a frame bridging the said track, and having supporting portions defining an unobstructed space for the entrance of cars on said track.

1,476,883. PRINTING, DEVELOPING, AND FIXING APPARATUS. RALEIGH J. FREDERICKSON, Marion, S. Dak. Filed May 11, 1920. Serial No. 380,471. 5 Claims. (Cl. 95—90.)



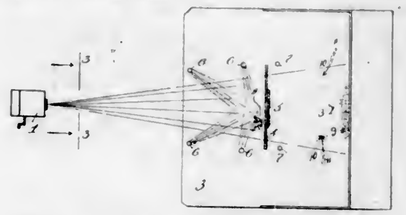
1. In a machine of the character described, the combination of a collapsible casing having an opening in the upper portion thereof for the passage of sensitized sheets; printing mechanism located in the front part of said casing; a removable cartridge of sensitized sheets attached to said casing in a partially open position over the opening in the casing; means for feeding the sensitized sheets one at a time through said opening in the casing to the printing mechanism; developing means located in the lower part of said casing; a second casing to which said first mentioned casing is pivotally connected at its rear edge; and fixing means located in said second-mentioned casing, said first-mentioned casing being adapted to fold against the upper face of said second-mentioned casing when in collapsed form.

1,476,884. GUN SIGHT. ELI EDW. GREGORY, Lewisport, Ky. Filed Apr. 15, 1922, Serial No. 553,031. Renewed Sept. 27, 1923. 7 Claims. (Cl. 33—47.)



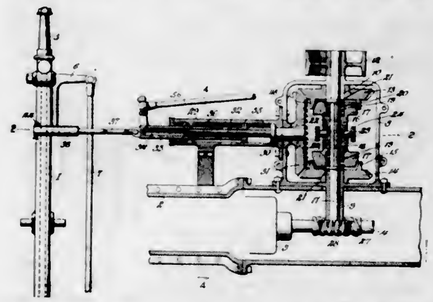
1. A sight for an implement to be aimed, adapted to be mounted on the forward portion of said implement, comprising one vertical arm and a second arm having a portion bent toward the first arm, said arms, when the object aimed at is viewed with both eyes, producing the optical effect of crossed hairs.

1,476,885. METHOD AND MEANS FOR TAKING MOVING PICTURES. DAVID WARK GRIFFITH, Mamaroneck, N. Y. Filed Nov. 17, 1921. Serial No. 515,875. 2 Claims. (Cl. 88—16.)



1. Means for taking a composite film which consists in a camera, a stage, a partition dividing the stage into a foreground and a background, a window and means for covering the same, foreground lights and background lights with life sized actors and objects in the foreground and small models and dummies in the background so that the foreground and background may be photographed at different times, the background being photographed through the window and a composite negative made in the camera.

1,476,886. AUTOMOBILE STEERING MECHANISM. LEO HAUBERT, Muskogee, Okla. Filed June 30, 1920. Serial No. 393,087. 14 Claims. (Cl. 180—81.)



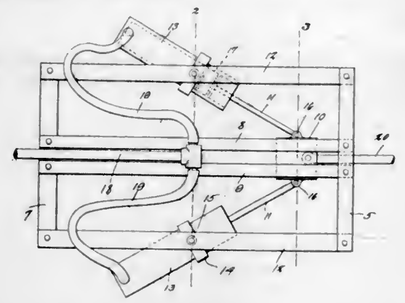
1. Steering mechanism for automobile trucks or tractors comprising gearing connected to the steering wheels of the truck or tractor, means for coupling the gearing to or uncoupling it from the power unit of the vehicle, a manually operable steering post with a gear mounted on a shaft slidable within the steering post, said gear adapted to connect the steering post with the gearing connected to the steering wheels of the truck or tractor for manual steering purposes, and means for connecting the steering post to the coupling means for utilizing the power unit for controlling the steering wheels.

1,476,887. CURTAIN CLASP. JAMES C. HEEREY, Philadelphia, Pa. Filed Feb. 24, 1922. Serial No. 538,833. 1 Claim. (Cl. 156—33.)



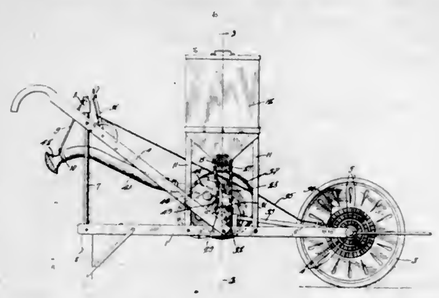
A curtain clasp comprising a length of highly springy material folded upon itself to provide gripping members and a bridge like clamp for securing the clasp in position, said clamp being slotted for the passage therethrough of one of the gripping members, and having an outset tongue abutting the clasp along the line of fold.

1,476,888. PUMP. WILLIAM H. HITCHCOCK, Gainesville, Ga. Filed May 25, 1922. Serial No. 563,606. 1 Claim. (Cl. 230—27.)



In a device of the character described, a frame, said frame including side bars, cylinders pivotally supported between the side bars, guide bars forming a part of the frame, a movable block adapted to operate between the guide bars, piston rods having connection with the guide block and having pistons operating in the cylinders, means for moving the block along the guide bars to move the pistons within their cylinders, and flexible pipes having connection with the cylinders for directing air forced through the cylinders, to a discharge pipe.

1,476,889. COTTON DUSTER. ORACE PHILIP HOBBS, Royston, and PINKNEY A. FLANIGAN and HIRAM T. FLANIGAN, Winder, Ga. Filed Dec. 26, 1922. Serial No. 608,977. 1 Claim. (Cl. 43—148.)



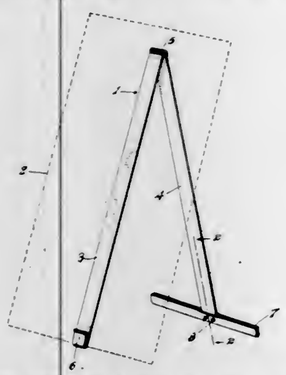
The combination with a supporting structure including a wheel actuated gear, of an attachment for the structure including a hopper on the structure and having a side outlet, a gate slidably mounted in the hopper for controlling the flow of material through the outlet, an index movable with the gate and outside the hopper, there being a slot in the hopper for the index, means for closing the slot, a blower casing having an inlet and an outlet, means for conducting material from the hopper outlet to the inlet of the casing, speed multiplying mechanism operated by said gear for actuating the blower in the casing, and means for forcing material through the outlet of the hopper.

1,476,890. PROCESS OF RECOVERING BORAX FROM SALINE LIQUORS. CARL INDINGS, Westend, Calif. Filed Mar. 20, 1922. Serial No. 545,367. 5 Claims. (Cl. 23—22.)

1. The process of recovering borax from liquors containing the same and other salts which comprises

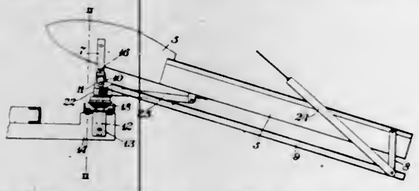
evaporating and cooling the liquor to crystallize out other salts and bring the cool liquor to supersaturation with borax, removing the cool liquor from the deposited salts and agitating the cool liquor to crystallize out borax.

1,476,891. EASEL. HARVEY F. JACKSON, Brooklyn, N. Y. Filed Mar. 8, 1922. Serial No. 542,086. 2 Claims. (Cl. 40—146.)



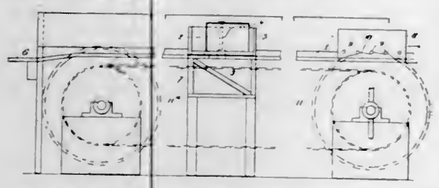
1. An easel comprising a strip of resilient sheet metal bent into substantially V form, having the end of one leg turned outwardly and back upon the leg to constitute therewith a grip and a second strip of sheet metal bent upon itself to embrace the end of the other leg and constitute a lateral support substantially as specified.

1,476,892. SPOUT FOR CONCRETE-MIXING MACHINES. GEBHARD JAEGER, Columbus, Ohio. Filed Nov. 14, 1921. Serial No. 514,950. 7 Claims. (Cl. 198—220.)



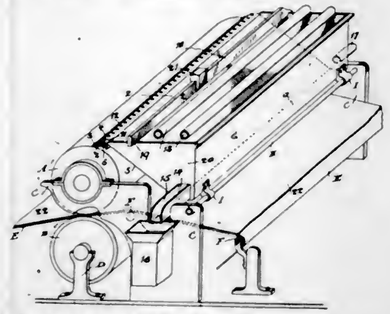
1. The combination of a distributing spout, means whereby the same may be swung horizontally, and means for reciprocating the same longitudinally with a quickened and suddenly arrested movement in one direction.

1,476,893. APPARATUS FOR THE PRODUCTION OF FISH PRODUCTS. PETER BURD JAGGER, London, England. Filed Oct. 4, 1920. Serial No. 414,669. 1 Claim. (Cl. 99—2.)



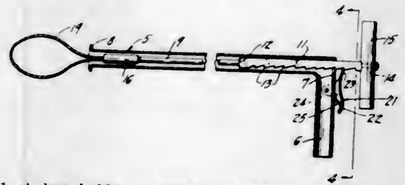
In apparatus for butchering the head of a fish the combination of cutters for removing certain rejected parts of the head, plungers for removing the eyes, and means for splitting open the head.

1,476,894. PAPER-MAKING MACHINE. ALFRED ALBERT JUDD, Iroquois Falls, Ontario, Canada, assignor of one-half to Charles Francis Murtaugh, Iroquois Falls, Ontario, Canada. Filed Mar. 17, 1922. Serial No. 544,422. 3 Claims. (Cl. 92—49.)



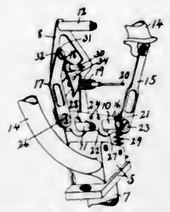
1. In a paper-making machine, the combination with top and bottom press rolls, and a conveyor suitably mounted and adapted to carry the pulp therebetween, of a hopper adapted to be pivotally mounted, and provided with a scraper adapted to rest upon the said top press roll; means whereby water is passed into said hopper to act as a carrier for the pulp received thereby, thereout of, and adjustable weights carried by said hopper, for the purpose specified.

1,476,895. HOG HOLDER. ROBERT A. LANGENBACHER, St. Charles, Mo. Filed Oct. 25, 1922. Serial No. 596,820. 2 Claims. (Cl. 119—153.)



1. A hog holder comprising a casing, one end portion of said casing being extended laterally with respect to the major portion of the casing to provide a handle, said casing having an opening at the junction of the handle with the casing, an actuating member slidable in said opening, one end of said member having a loop member secured thereto, the opposite end of said member having teeth, a pawl pivoted on and arranged longitudinally of the handle adjacent said opening for engagement with the teeth of the actuating member, and a further handle member carried by the end of the actuating member adjacent the handle of the casing.

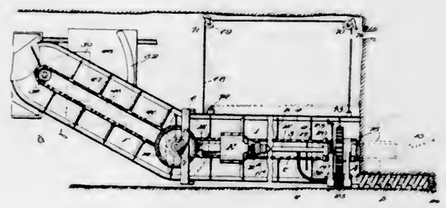
1,476,896. FLUID-PRESSURE GAUGE. EUGENE LETSCH, Lynbrook, N. Y., assignor to Pierce, Butler & Pierce Mfg. Corp., Syracuse, N. Y., a Corporation of New York. Filed June 29, 1921. Serial No. 481,246. 5 Claims. (Cl. 73—109.)



1. In a fluid pressure gauge, means actuated by the fluid pressure for indicating variations in said pressure,

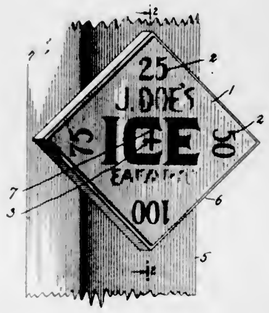
including a lever having different fulcrums and means whereby it is actuated on one fulcrum by pressure within a certain range, and on another fulcrum, by pressures above that range.

1,476,897. LOADING APPARATUS FOR MINING. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Original application filed Oct. 22, 1910, Serial No. 588,471. Divided and this application filed Mar. 6, 1918, Serial No. 220,818. Renewed Apr. 30, 1923. 12 Claims. (Cl. 93—11.)



1. In a loading machine, the combination of a primary conveyer adapted to initially receive material of the character of broken coal, an auxiliary conveyer having its receiving end pivotally connected on an upright axis to the discharge end of the primary conveyer, and a movable support upon which the auxiliary conveyer is pivoted at its discharge end so as to swing laterally.

1,476,898. ADJUSTABLE SIGN. RANSOME T. LEWIS, Elmira, N. Y. Filed Nov. 15, 1922. Serial No. 601,018. 7 Claims. (Cl. 40—125.)



4. An adjustable sign consisting of a card having distinctive indicia in spaced arrangement and provided with elongated intersecting slots adapted to cooperate with a holder-shank, each slot being directed toward one of the indicia.

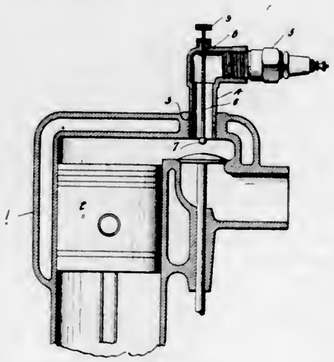
1,476,899. ATTACHMENT FOR WELL-RIGGING MACHINES. HAROLD JAMES LOCKHART, Parkersburg, W. Va., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va., a Corporation of West Virginia. Filed Aug. 3, 1922. Serial No. 579,464. 2 Claims. (Cl. 254—145.)

1. The combination with a well rig having a hoisting drum, a hoisting line and a traveling block of a portable bailing machine comprising a drum adapted to be arranged on the platform of the rig, a bailing line spooled



about said drum, a pulley block adapted to be carried by said traveling block, said bailing line being passed over said pulley block, and means for rotating said drum.

1,476,900. EXPLOSIVE-ENGINE IGNITER. JAMES T. LYKENS, Huntington, W. Va., assignor of one-half to Lemuel R. Via, Huntington, W. Va. Filed May 10, 1923. Serial No. 638,020. 4 Claims. (Cl. 123—143.)

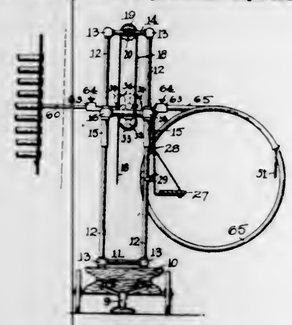


1. Ignition means for explosive engines, the same comprising a shell adapted to be coupled to the cylinder of an engine and adapted to receive an ordinary spark plug, and an ignition member within tht shell and adapted to be heated by the explosion of the gaseous mixture, whereby to ignite and explode the successive charge.

1,476,901. BOILER-TUBE-CLEANING MACHINE. EUGENE J. MCCARTY, Clinton, Mass. Filed Feb. 14, 1922. Serial No. 536,576. 18 Claims. (Cl. 15—104.10.)

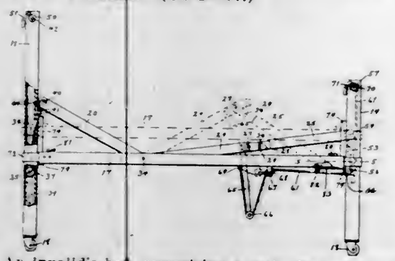
1. In a power operated flue cleaning machine, the combination of a frame having supporting wheels mounted thereon, a movable flue-scraper or cleaner, means on said

frame for guiding the motion of the flue scraper or cleaner, and an operator's platform adjustable up and



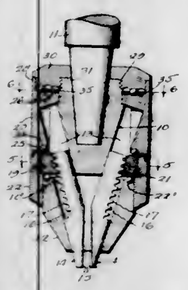
down said frame and extending the length of the frame at a level below that of said guiding means.

1,476,902. INVALID'S BED. WILLIAM A. MCCOLLOUGH, Webster City, Iowa. Filed Oct. 27, 1921. Serial No. 510,779. 4 Claims. (Cl. 5—77.)



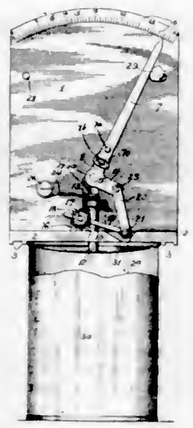
1. An invalid's bed, comprising a main frame including channel-shaped posts, a movable section within and extending throughout a portion of the horizontal length of said main frame and pivoted at one end thereto, a shaft rotatively mounted in and transversely of the upper portions of said posts, a spindle arranged transversely and having its end portions extending within and adapted for vertical movement relative to said channel-shaped posts, rollers on said spindle contacting the inner walls of said posts, connections between said shaft and spindle for raising and lowering the latter as the shaft is rotated, and pitmen providing pivotal connections between said spindle and the free end of said movable section.

1,476,903. CHUCK. HARRY R. MCCONNELL, Richmond, Va., assignor to The McConnell-Browning Engineering Company, Richmond, Va., a Corporation of Virginia. Filed Feb. 7, 1922. Serial No. 617,592. 5 Claims. (Cl. 279—62.)



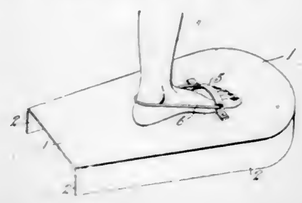
1. A chuck comprising a body portion, means carried thereby for gripping a tool, actuating means for moving said gripping means into loose engagement with the tool, a rotatable sleeve engaging said actuating means, said body portion being provided with an annular extension having its lower face arranged adjacent the upper face of said sleeve, the adjacent faces of said sleeve and said extension being provided with a plurality of concentric grooves of varying depths, and antifriction balls arranged in said grooves.

1,476,904. TESTING INSTRUMENT. ADOLPH K. MALMQUIST, South Bellingham, Wash., assignor to Deming & Gould Company, South Bellingham, Wash. Filed Jan. 22, 1921. Serial No. 439,172. 8 Claims. (Cl. 33—172.)



1. Testing means, comprising a frame constructed at one end to engage diametrically opposite portions of the end of a food receptacle, a scale having graduations denoting inches of vacuum, a movable member carried by said frame to engage a closure on the food receptacle, a pointer, and means co-operable with said movable member and pointer, whereby the degree of vacuum in the receptacle may be determined by the extent of inward curvature and indicated by the pointer on the scale.

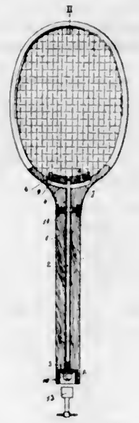
1,476,905. WATER SHOE. FREDERICK H. MARDUS, Brooklyn, N. Y. Filed May 18, 1923. Serial No. 639,940. 4 Claims. (Cl. 9—21.)



1. A water shoe comprising a sheet metal plate having a depending flange at the front and sides.

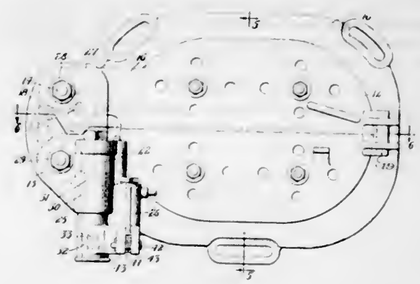
1,476,906. TENNIS RACKET WITH VARIABLE TENSION OF CORDS. CAMILO ROSS SANTA MARIA, Paris, France. Filed Mar. 17, 1922. Serial No. 544,547. 2 Claims. (Cl. 46—24.)

1. The combination with the handle of a tennis racket having a longitudinal opening thereon, of a flat rod extending through said opening, a roller tensioning means engaging the strips on said racket, and connected to the inner end of said rod, means threadedly secured to the opposite end of said rod and incased in a recess in the handle for regulating the tensioning of the strings, and



a reinforcing bolt transversely extending through the upper portion of said handle and having an orifice therein through which extends said flat rod.

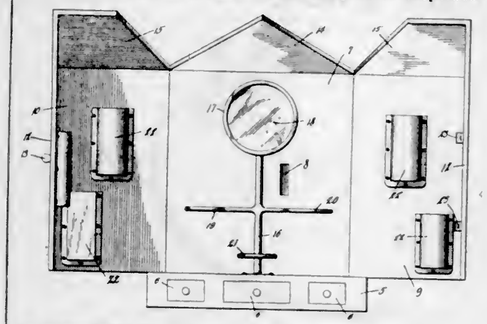
1,476,907. FURNACE DOOR. FREDERICK W. MARTIN, Brooklyn, N. Y., assignor to Franklin Railway Supply Company, a Corporation of Delaware. Filed May 21, 1921. Serial No. 471,410. 8 Claims. (Cl. 110—177.)



1. A furnace door comprising a pair of door plates mounted to swing apart and together, edgewise, across the door opening, a link interconnecting said plates and constraining them to move in unison which link operates across the line of their fulcra; and a fluid-actuated piston for operating the door aranged to move in the direction of the line of fulcra of the plates and operatively connected to one of said plates.

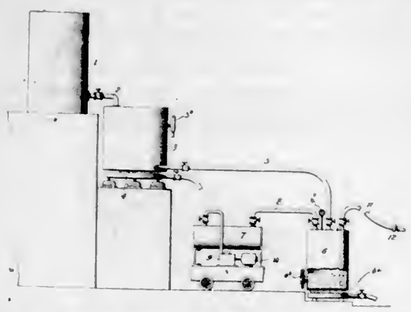
1,476,908. BARBER'S CABINET. ALONZO AFFERD MASSIE, Philadelphia, Pa. Filed Nov. 29, 1921. Serial No. 518,689. 1 Claim. (Cl. 211—7.)

In a cabinet, a base, a rear section secured to the base and having an upwardly inclined top section formed with angular edges, side sections hingedly connected to the rear section, said side sections having top sections, each of the top sections being inclined upwardly, the inner edges of the top sections being disposed at angles to closely engage the angular edges of the top section of the rear section, a right angles wall forming a part of each side section, said right angled walls adapted to cooperate



to provide the front wall of the cabinet, and the upper edges of the right angled walls being inclined to provide a continuation of the top sections of the side sections.

1,476,909. METHOD OF REMOVING PAINT, ENAMEL, ETC. LANDON C. MOORE and WILLIAM T. JACKSON, Dallas, Tex., said Jackson assignor to said Moore. Filed Aug. 5, 1919. Serial No. 315,380. 3 Claims. (Cl. 87—5.)



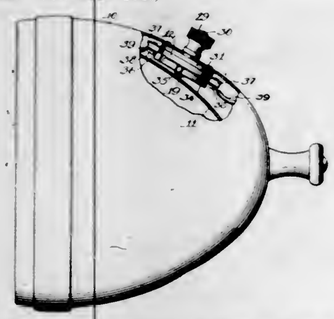
2. A process of removing finish coating from a finished-coated surface, which comprises atomizing against such surface, by the agency of a blast of air, an alkaline liquor capable of disintegrating the said finish coating, and such liquor being hot when applied to said surface, such liquor comprising a solution of an alkali metal hydroxid and an alkaline earth metal hydroxid.

1,476,910. CAKE PAN CHARLES M. NAUGLE, Wilkes-Barre, Pa. Filed Dec. 9, 1922. Serial No. 605,868. 1 Claim. (Cl. 53—6.)



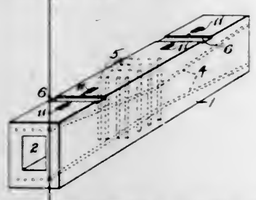
A pan of the class described comprising a body portion in the form of a plate having depending therefrom a plurality of cup shaped receptacles each of which has a centrally disposed projection, a bead extending around the perimeter of said body, a removable cover plate having glides along its side edges to slidably receive said bead and tightly retain the plate against the upper edges of the cup-shaped receptacle, the front edge of the cover being folded flat against the face thereof to form a reinforce and the rear edge folded to form a stop to limit the movement of the cover in one direction and also a finger grip to facilitate the removal of the cover.

1,476,911. ROTARY SWITCH. ARVID NELSON, Chicago, Ill. Filed Sept. 29, 1921. Serial No. 504,105. 10 Claims. (Cl. 200—155.)



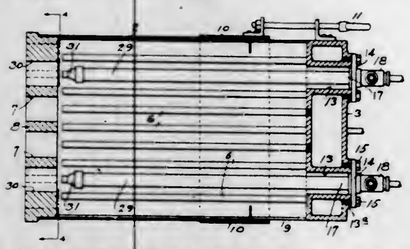
1. A rotary switch embodying a base of insulating material, a rotary spindle mounted in the base and projecting beyond one face of the base, a forwardly and backwardly rotatably disc of insulating material connected with the spindle and having recesses in its periphery, a metallic element connected with the said disc and out of electrical connection with the spindle, laterally projecting recessed lugs carried by the said element, said lugs being seated in the notches in the periphery of the disc and rotatable with the disc, and spring terminals connected with the said base and on the face of the base opposite to that face beyond which the spindle projects and adapted to enter the recesses in the said lugs when the disc is rotated in either direction.

1,476,912. CONCRETE TIE. CLAIR A. NESBIT, Fairburn, S. Dak. Filed Feb. 6, 1923. Serial No. 617,237. 6 Claims. (Cl. 238—91.)



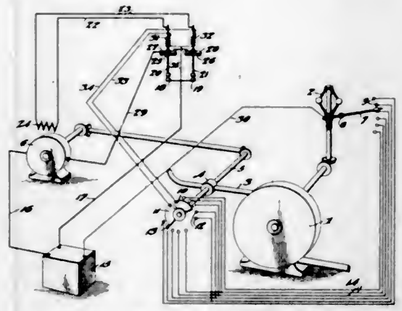
1. A concrete tie comprising a cement body having a tapered opening extending from each end beneath the rail-supporting portions and terminating adjacent the center so as to leave a central solid portion.

1,476,913. COMBINATION GAS AND OIL BURNER. CARL O. NORDENSSON, Pittsburgh, Pa., and LEE B. METTLER, Oklahoma, Okla., assignors to Duquesne Burner Service Co., Pittsburgh, Pa., a Corporation of Delaware. Filed Aug. 9, 1920. Serial No. 402,290. 2 Claims. (Cl. 158—11.)



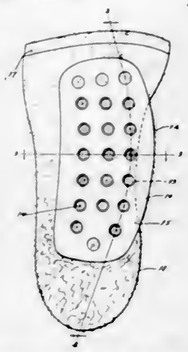
1. In a combined oil and gas burner, the combination of a suitable shell or casing, a mixing-plate at the discharge end of said casing having openings therein, a box at the front end of said casing, gas pipes leading from said box into said casing adjacent to said openings in said mixing plate and registering therewith, said casing having an air-inlet adjacent said box, a valve controlling said air-inlet, said box having passages extending therethrough, liquid-fuel burners passing through said passages, and adjacent to openings formed in said mixing plate and registering therewith.

1,476,914. ELECTRICALLY-CONTROLLED GOVERNOR FOR WATER WHEELS. STERLING A. OAKLEY, Boise, Idaho, assignor of one-half to Ida F. Warner, Boise, Idaho. Filed Dec. 16, 1921. Serial No. 522,851. 3 Claims. (Cl. 137—140.)



1. An electrical control for fluid turbines including with a valve controlling the supply of fluid to the turbine, a speed responsive governor actuated by operation of the turbine, a reversible motor connected to open and close the valve, a source of electrical energy for said motor, a primary circuit for the motor including relays to reverse the current therethrough, a secondary circuit including means to be selectively energized to operate the relays, and means operated by the speed responsive governor to select the relay operating means and establish connections in the primary circuit to open and close the valve as low and high speeds of the turbine are attained.

1,476,915. ARCH SUPPORT. RICHARD P. O'DONNELL, Chicago, Ill. Filed July 7, 1922. Serial No. 573,253. 2 Claims. (Cl. 36—71.)



1. An arch support comprising a pad portion of resilient pliable material having a plurality of perforations passing vertically therethrough, said pad portion being arranged to overlie the insole of the shoe beneath the inner longitudinal arch of the wearer, and a backing sheet of felt to the underside of which said pad portion is secured, said felt sheet being formed with a contour to fit within a shoe and thereby position the pad portion properly.

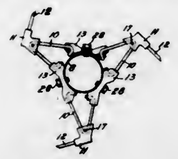
2. An arch support comprising a pad portion of non-rigid, resilient and pliable material having its greatest thickness at the side edge of the pad which lies at the inner side of the wearer's foot, the thickness diminishing gradually toward the opposite edge of the pad and also toward the front and rear ends of the pad, the pad having a plurality of perforations passing vertically therethrough, and a backing sheet of pliable porous and absorbent material to the underside of which said pad is secured, said backing sheet being cut to the general contour of the inner sole of a shoe and arranged to fit in the shoe above the insole and to position said pad with the thickest portion thereof beneath the inner longitudinal arch of the wearer, said backing and said pad being of extended or abnormal width at the middle of the support in proportion to the normal contour of a shoe sole whereby the crowding of the support down into the shoe when worn causes the thickest portion of the support to be flexed upwardly against the inner longitudinal arch of the wearer.

1,476,916. COLLAPSIBLE RIM FOR TIRES. HARRY J. PARKER, Chicago, Ill., assignor to Parker Collapsible Rim Corporation, Chicago, Ill., a Corporation of Delaware. Filed Aug. 2, 1919. Serial No. 314,971. 4 Claims. (Cl. 301—32.)



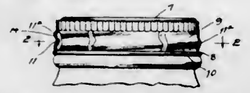
1. In a collapsible rim, a body portion divided radially and having ends relatively displaceable to render said body portion collapsible, means for restoring said ends to circumferential alinement for distending the rim, and a limiting ring surrounding said body portion and sustaining it against radial expansion; said limiting ring being permanently attached to the body portion through a limited circumferential extent thereof.

1,476,917. ROTARY TILLER. JOHANN FRIEDRICH MAX PATITZ, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Original application filed May 27, 1918, Serial No. 237,359. Divided and this application filed June 3, 1921. Serial No. 474,712. 14 Claims. (Cl. 97—215.)



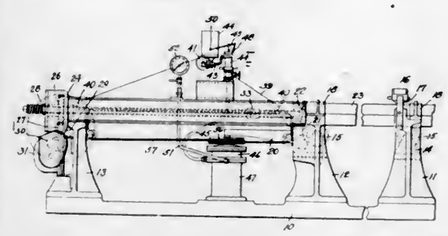
1. In a tiller, a carrier movable about an axis, a member loosely attached to said carrier by means of a pivot extending transversely of said axis, and a plurality of disintegrating elements associated with said loosely attached member.

1,476,918. SCREW CAP. WILLIS J. PEELLE, Chicago, Ill. Filed Jan. 13, 1923. Serial No. 612,472. 5 Claims. (Cl. 215—43.)



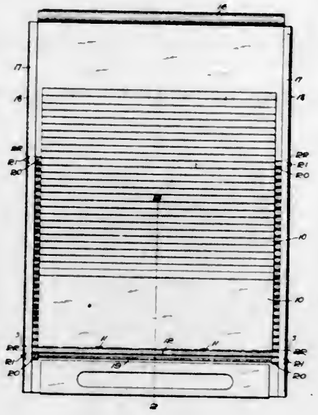
1. A cap or closure having a flange formed with a screw thread whereby it may be screwed onto the threaded neck of a container, the flange having formed therein at spaced points in its periphery enlargements in the top and bottom of the thread adapted when flattened to increase the effective circumference thereof.

1,476,919. DYNAMOMETER. HERMAN B. PIEPER, Davenport, Iowa. Filed Apr. 29, 1922. Serial No. 557,439. 4 Claims. (Cl. 265—47.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. The combination with a dynamometer, including a support for the work to be tested, a lever carried by the support and engagable with the work, a pressure cylinder, a piston in the pressure cylinder actuated by the lever, a rod adapted to be connected to the work and operable to move the same, a cross head carried by the rod, of a sheave connected to the piston and a cable passing about the sheave with its ends connected to the cross head, whereby the piston is oscillated about its axis as the work is reciprocated.

1,476,920. FILING AND INDEXING EQUIPMENT. JOHN T. QUIGLEY, Boston, Mass., assignor to Costmeter Company, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 14, 1918. Serial No. 266,743. 10 Claims. (Cl. 129—16.)

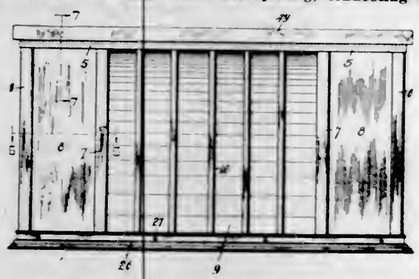


1. A file comprising, in combination, a series of folded, paper, record sheets whose folds are presented to view in overlapping relationship, and sheet-supporting means having provision for swiveling to permit said sheets to be swung to present either of two faces to view.

1,476,921. COLLAPSIBLE REGISTER. WILLIAM D. REDRUP, Huntington, Ind., assignor to The Majestic Company, Huntington, Ind., a Corporation of Indiana. Filed Mar. 16, 1922. Serial No. 544,180. 5 Claims. (Cl. 98—49.)

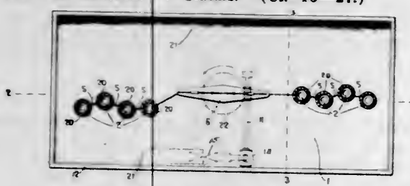
5. A register of the class described having a side with an opening therein and having longitudinally extending top and bottom frame strips, which strips have flanges projecting inward therefrom and provided with

notches having tongues projecting from their bases, and grate bars extending across the opening, connecting the



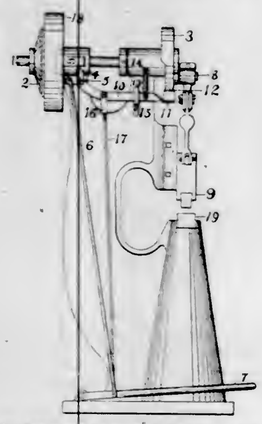
strips and mounted in the notches thereof, the tongues projecting through the bars and bent to prevent removal of the bars from the notches.

1,476,922. AMUSEMENT DEVICE. HERBERT N. RIDGWAY, Winthrop, Mass. Filed Nov. 29, 1920. Serial No. 426,942. 7 Claims. (Cl. 46—27.)



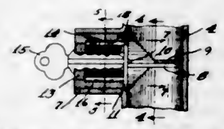
2. In an amusement device, the combination with a floor space, of a train of cars, each car being constructed to move freely in any direction, a car propelling member to which said train of cars is attached, and means capable of giving said car propelling member an irregular rotative movement.

1,476,923. TRIP HAMMER. HUGO ROEKER, Clinton, Wis. Filed Dec. 5, 1921. Serial No. 520,077. 2 Claims. (Cl. 192—17.)



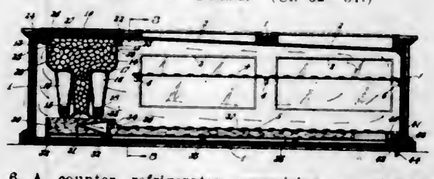
1. In a trip hammer having a frame, a shaft mounted within said frame, a clutch pulley and a flywheel mounted upon said shaft, a foot lever to operate said clutch, a bar pivoted to the frame at one end and carrying a brake-shoe at its opposite end said brake shoe being adapted to bear against the periphery of said flywheel, a spring to force said brake-shoe against said flywheel and a connection between said bar and said foot treadle to operate said brake-shoe simultaneously with said clutch, substantially as set forth.

1,476,924. MANIFOLD LOCK. MARTIN P. H. SCHROEDER, Chicago, Ill. Filed June 13, 1921. Serial No. 476,982. 5 Claims. (Cl. 251—6.)



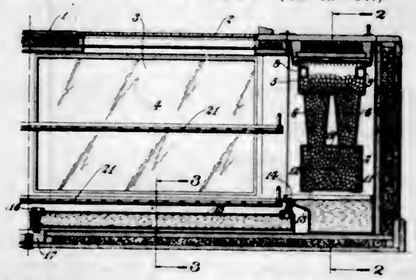
1. The combination with an engine intake manifold, of a sleeve formed thereon, a lock in said sleeve, a pin on said lock, a rotatable barrel forming a part of said lock and adapted to be rotated by means of a key, a plate secured on the inner end of said barrel having a slot therein for receiving said pin to limit the movement of said barrel, said plate serving to close the lock and barrel openings, and a valve formed on said plate and projecting into said manifold, said valve being shaped to completely restrict the flow of gases through the manifold when the valve is in closed position.

1,476,925. COUNTER REFRIGERATOR. JOHN SCHULDE, St. Louis, Mo., assignor to Harry L. Hussmann Refrigerator & Supply Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 29, 1919. Serial No. 327,150. 10 Claims. (Cl. 62—37.)



6. A counter refrigerator comprising, an elongated show-case provided with transparent panels, a refrigerant container adapted to receive a freezing mixture and mounted at one end of said show-case, said container being constructed and arranged to provide a top passage over the freezing mixture in the top thereof and to provide passages along its back and bottom connecting with said top passage, in order to induce a flow of air through said top passage in contact with the freezing mixture and down said back passage, said container being adapted and positioned to cause a current of air to circulate in a path from the bottom of said container along the bottom of the show-case and in a return path along the top of the show-case into the top of said container.

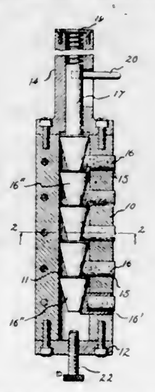
1,476,926. SHOWCASE REFRIGERATOR. JOHN SCHULDE, St. Louis, Mo., assignor to Harry L. Hussmann Refrigerator & Supply Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 22, 1921. Serial No. 516,935. 4 Claims. (Cl. 62—37.)



1. A counter refrigerator comprising, an elongated show-case provided with transparent panels, a freezing mixture container mounted at one end of said show case and consisting of upper and lower headers and

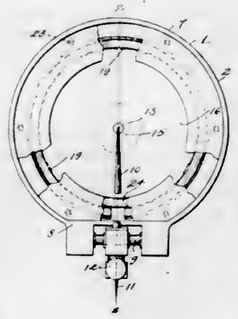
legs connecting said headers, said container being constructed and arranged to provide a top passage and passages along its back and bottom connecting with said top passage, in order to induce a flow of air through said top passage and down said back passage, said container being adapted and positioned to cause a current of air to circulate in a path from the bottom of said container along the bottom of the show case and in a return path along the top of the show case into the top of said container.

1,476,927. AUTOMATIC ADJUSTABLE CYLINDER LAP. FRANK A. SCHUMANN, South Bend, Ind. Filed Oct. 16, 1922. Serial No. 594,915. 3 Claims. (Cl. 51—206.)



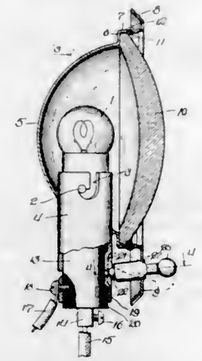
1. A cylinder lapping tool comprising a body portion having a longitudinal bore, a handle arranged at one end of the body portion, a plurality of abrasive elements radiating from the body portion, and slidably associated therewith, a plunger movable within the body portion and designed to engage the abrasive elements and automatically project them from the body portion into constant engagement with the wall of the cylinder incident to the use of the tool, and yieldable means for exerting pressure on said plunger for the purpose specified.

1,476,928. SOUND REPRODUCER OF TALKING MACHINES. CARL SCRABIC, Urbana, Ohio. Filed Apr. 3, 1922. Serial No. 548,978. 4 Claims. (Cl. 274—25.)



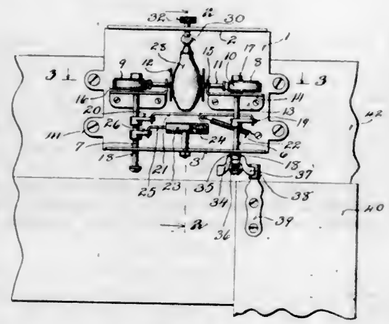
1. In a sound box, a casing including a chamber, a diaphragm mounted for vibration within said chamber, a pair of wedge shaped clamping rings surrounding said diaphragm, and means projecting inwardly from the inner of said rings and disposed for engagement with the peripheral edge of said diaphragm.

1,476,929. TONNEAU LAMP. NEWTON L. SNORF, Chicago, Ill., assignor to Edmunds & Jones Corporation, a Corporation of New York. Filed May 6, 1922. Serial No. 559,042. 6 Claims. (Cl. 240—7.)



1. A lamp assembly comprising a casing having a interally projecting flange, a lamp-socket extending into the casing and having a shell projecting at its rear end behind the flange and affording electrical connection to one terminal of an incandescent lamp, a circuit terminal insulated from the aforesaid terminal and disposed adjacent to the rear end of the shell, and switching means extending through the flange and movable into and out of a position in which it electrically bridges the gap between the said circuit terminal and the said shell end.

1,476,930. DEODORIZER. OTTO F. STUERZER, Milwaukee, Wis. Filed Feb. 9, 1923. Serial No. 617,966. 2 Claims. (Cl. 167—3.)

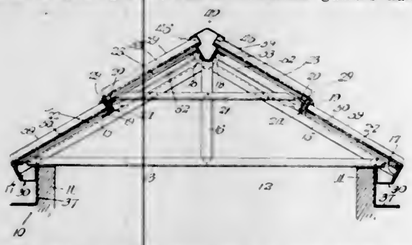


1. A deodorizer comprising a casing adapted to be attached adjacent a door, a bracket adapted to be attached to said door, an atomizer removably held within said casing and having an air compressing bulb, a pair of vertical shafts provided with eccentrics and mounted within said casing, a pair of plates positioned upon opposite sides of said bulbs and actuated from said eccentrics to compress said bulb, and cam means carried by one of said shafts and adapted to be operated by said bracket, whereby when said door is moved said bulb is compressed to thereby operate said atomizer.

1,476,931. SKYLIGHT CONSTRUCTION. JOSEPH SYLVAN, Chicago, Ill. Filed Dec. 8, 1920. Serial No. 429,077. 5 Claims. (Cl. 108—10.)

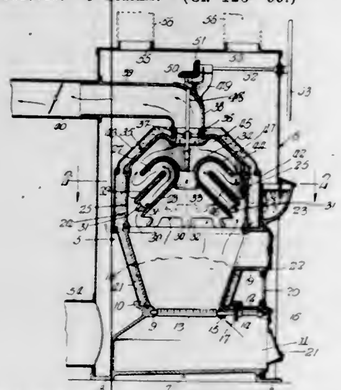
1. In a skylight construction, the combination of a frame including glazing bars, panels supported on said

glazing bars, finger clips secured to the frame in line with the glazing bars, and condensation gutters having



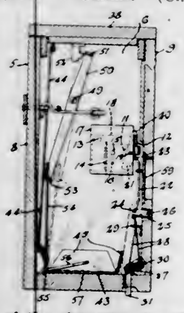
side flanges, including parts bent to form ledges, which removably engage said finger clips.

1,476,932. WARM-AIR HEATING FURNACE. JOSEPH SYLVAN, Cicero, Ill. Filed Jan. 30, 1922. Serial No. 532,643. 6 Claims. (Cl. 126—99.)



1. In a warm air heating furnace, the combination of a combustion chamber including a fire pot section and a dome section, a casing enclosing the combustion chamber and providing an air space about the same, a sheet metal jacket made of sections spaced from but surrounding the combustion chamber and extending from the bottom of the fire pot section to the top of the dome section thereof, where it is open at the top, and a filler of granular heat absorbing and retaining material in the space between the combustion chamber sections and said sheet metal jacket sections.

1,476,933. MILK AND MAIL RECEPTACLE. PETER TENEROWICZ, Milwaukee, Wis. Filed Aug. 7, 1922. Serial No. 580,168. 3 Claims. (Cl. 232—91.)



1. In a device of the character described, a receptacle having a compartment, a hinged closure for the compartment, a support hingedly mounted in the compartment, means connecting the closure and support whereby they are conjointly moved on their hinges, a lever having one end pivotally secured in the compartment and its other free end normally raised above the bottom thereof in register with an opening in the bottom of the support whereby the placing of an article on the support depresses the free end of the lever, and means actuated by the depressing of the lever to secure the closure in closed position.

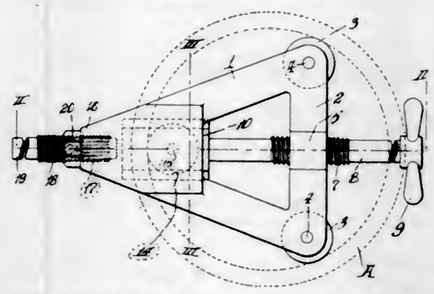
1,476,934. ANÆSTHETIC COMPOUND. ERNEST H. VOLWILER, Chicago, and ROGER ADAMS, Urbana, Ill., assignors to The Abbott Laboratories, Chicago, Ill., a Corporation of Illinois. Filed Feb. 13, 1922. Serial No. 536,362. 7 Claims. (Cl. 260—105.)

1. As a new article of manufacture, alkyl allyl amino alcohol ester of an aromatic acid, containing a benzene nucleus, and of the general formula:

$$R—COO—(CH_2)_x—N\begin{matrix}R'\\R''\end{matrix}$$

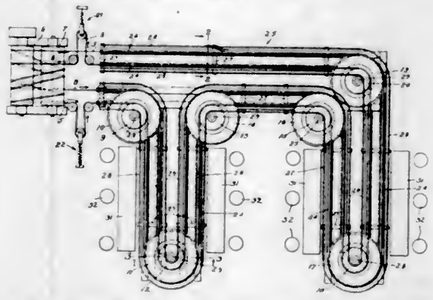
in which R represents a benzene nucleus, x represents more than one, R' represents an alkyl group greater than ethyl, and R'' represents an allyl group.

1,476,935. BARREL-SEALING DEVICE. LOUIS B. WACKMAN, St. Louis, Mo. Filed Mar. 12, 1921. Serial No. 451,855. 3 Claims. (Cl. 113—25.)



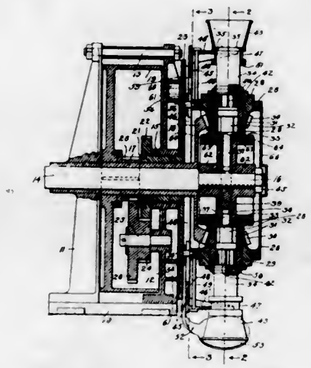
1. In a barrel sealing device, a frame having a series of expanding rollers, a sliding block carried by said frame supporting one of said rollers, means for adjusting said block, and other adjustable means for limiting the travel of said block.

1,476,936. CONVEYER. CECIL J. WALDEN, Los Angeles, Calif., assignor to Royal Packing Company, Los Angeles, Calif., a Corporation of California. Filed Nov. 21, 1921. Serial No. 516,672. 5 Claims. (Cl. 198—190.)



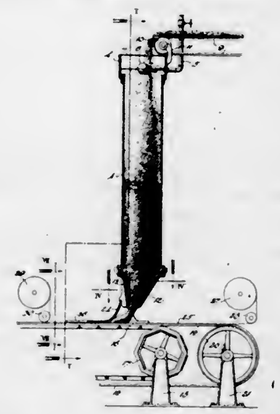
1. A conveyer mechanism, comprising a pair of endless cable lengths disposed in a substantially horizontal plane and in parallel relation adapted to be guided by sheaves over which they pass in various directions, means for moving each pair of said cable lengths in the same direction and at the same speed, guide rails disposed in parallel relation with said cable lengths, and means independent of said sheaves for supporting and guiding said cable lengths.

1,476,937. PIMIENTO CORING AND SKIN-LOOSENING MACHINE. CECIL J. WALDEN, Los Angeles, Calif. Filed Jan. 3, 1923. Serial No. 610,430. 13 Claims. (Cl. 146—52.)



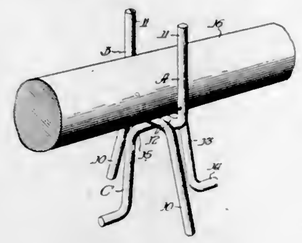
1. A machine of the class described, comprising a fruit grinding member, a tubular cutting knife disposed centrally with said fruit guiding member, a core holding mechanism disposed in said tubular cutting knife, means for reciprocating said fruit guiding member on said cutting knife, and means for rotating said cutting knife.

1,476,938. MEANS AND METHOD FOR PREPARING PLASTIC COMPOSITIONS. CURRY ORA WALPER, Detroit, Mich., assignor, by direct and mesne assignments, to Standard Plastering System, Detroit, Mich., a Corporation of Michigan. Filed Aug. 3, 1922. Serial No. 579,538. 17 Claims. (Cl. 154—1.)



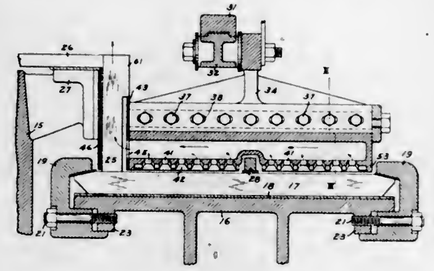
17. The process of preparing a wall board which consists in placing dry material capable of absorbing water to form a hydrated compound continuously upon the surface of water and after the material has descended by gravity through the water for a sufficient distance to take up the proper amount of water, withdrawing the material continuously from beneath the water to the surface of a conveyor and spreading the material thereon to a substantially uniform thickness.

1,476,939. BAR CHAIR. WILLIAM E. WHITE, Chicago, Ill. Filed June 12, 1922. Serial No. 567,849. 5 Claims. (Cl. 72—122.)



1. A bar chair composed of three members, two of said members being duplicates and consisting of a leg, a post and a horizontal connecting part, said third member being U-shaped, said two members being placed in opposed relation with their connecting parts side by side, and said third member being arranged at right angles thereto, said three members being joined at their intersection.

1,476,940. COMMUTATOR-COOLING APPARATUS. NATHAN WILKINSON, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Apr. 28, 1921. Serial No. 465,269. 17 Claims. (Cl. 171—321.)

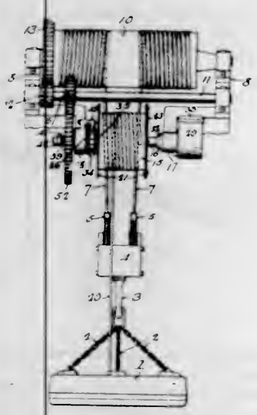


1. In a dynamo-electric machine provided with a rotatable current-collecting element, a conduit having an inlet adjacent an active face of said current-collecting element, said conduit and its axis being located externally of said element, and fluid-circulating means operative to cause the withdrawal of fluid directly from the active surface of said current-collecting element and the passage of said fluid through said conduit means.

1,476,941. ELECTRIC-CABLE-WINDING MECHANISM. WILLIAM A. YOUNG and FRANK BRILL, Milwaukee, Wis., assignors to Pawling and Harnischfeger Company, West Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 15, 1923. Serial No. 612,672. 5 Claims. (Cl. 191—12.)

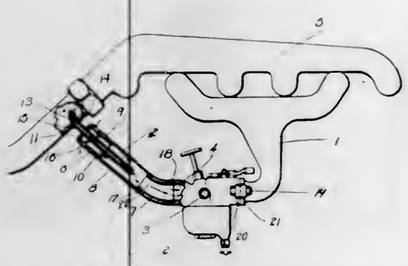
2. In electric-cable winding mechanism the combination with hoisting apparatus comprising a hoisting drum, of an electric cable winding drum, an axially movable friction driver mounted in axial alignment with the winding

drum and having an actuating connection with the hoisting apparatus adapted to turn it in opposite directions simultaneously with the hoisting drum, a ratchet wheel located between the driver and winding drum in frictional engagement therewith, a spring holding the driver, ratchet



wheel and winding drum in yielding engagement with one another, and a pawl mounted on a relatively fixed part of the machine and movable by frictional contact with the ratchet wheel into and out of positive engagement therewith.

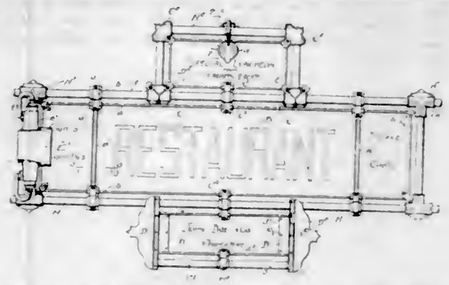
1,476,942. FUELIZER AND PREHEATER. JOSEPH C. Youngblood, Atwood, Kans. Filed Mar. 13, 1922. Serial No. 543,357. 4 Claims. (Cl. 123—119.)



1. The combination with an intake manifold, a carburetor attached thereto, and an exhaust manifold for an internal combustion engine, of means for leading exhaust gases from the exhaust manifold to the carburetor, said means comprising a tubular structure having a restricted inlet port communicating with the exhaust manifold of the engine and said port extending a considerable distance into the tubular structure and surrounded by orifices in the walls of the tubular structure whereby the restricted port will constitute an injector for drawing atmospheric air into the tubular structure to be heated by the wall of the port before it will mix with the exhaust gases preparatory to entering the carburetor.

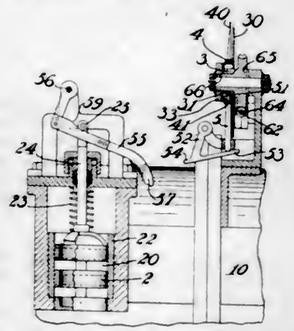
1,476,943. SIGN. JOSEPH BANNEYER, Chicago, Ill. Filed May 9, 1922. Serial No. 559,582. 4 Claims. (Cl. 40—130.)

1. A sign comprising a tubular outer frame, a sign plate within said frame but out of contact therewith, a bead formed on the edges of said sign plate, attaching members secured to said plate and to the tubular mem-



bers, and reinforcing strips extending across the face of the sign plate and being secured with said attaching members.

1,476,944. CONTROLLING DEVICE FOR METERS. CARLOS J. BASSLER, Portland, Oreg., assignor to American Liquid Meter Company, Portland, Oreg., a Corporation of Washington. Filed May 10, 1921. Serial No. 468,445. 9 Claims. (Cl. 221—101.)



1. In combination with a movable controller indicator, a normally relatively fixed indicating member cooperating with said movable indicator, means for setting said indicators relatively for any desired quantity, and a trip-releasing member connecting said indicators when they are in zero position, and movable from tripping position to disengage said indicators one from the other.

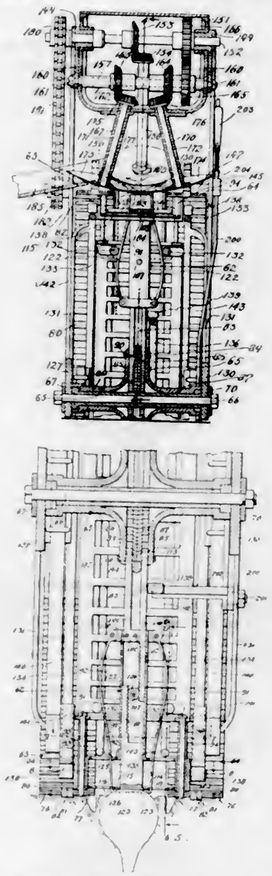
1,476,945. BEET-HARVESTING MACHINE. SAMUEL C. BEALE, Los Angeles, Calif., assignor to Horatio J. Forgy, trustee, Santa Ana, Calif. Filed May 5, 1919. Serial No. 294,899. Renewed Dec. 12, 1921. Serial No. 521,924. 15 Claims. (Cl. 55—108.)

2. A beet harvesting machine, comprising mechanism for grasping a beet approximately midway between its top and the ground, and means for operating said mechanism.

6. A beet harvesting machine, comprising a plurality of beet pulling devices, a topping mechanism adapted to co-operate with said pulling devices for severing the beets, said topping mechanism comprising a plurality of dish shaped discs provided with knife edges arranged adjacent one another, and means for operating the mechanisms.

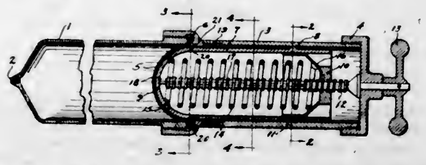
9. A beet topping mechanism, comprising a plurality of cutting knives adapted to top a beet in the form of a crown, and means for operating said cutting knives.

10. In a beet harvesting machine, a rotary member comprising a pair of spaced wheels, a plurality of pairs of beet engaging prongs arranged between said wheels, means for moving the members of each pair of prongs toward each other to engage the beets, and means for moving the pairs of prongs inwardly toward the axis of the wheels.



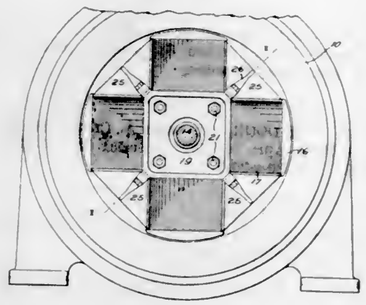
15. A beet harvesting machine, comprising mechanism for pulling a beet from the ground, mechanism for severing a beet, mechanism controlled by the top of the beet for automatically adjusting said pulling mechanisms with respect to the beets, and mechanisms for automatically adjusting the pulling mechanism with respect to the severing mechanism.

1,476,946. FLUID-PRESSURE DEVICE. ALFRED N. BESSESEN, Minneapolis, Minn. Filed Mar. 20, 1922. Serial No. 545,247. 4 Claims. (Cl. 221—79.)



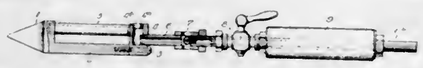
1. In a fluid pressure device the combination of a chamber, a cylinder joined to an open end of said chamber, a flexible seal interposed between said cylinder and said chamber, a piston having a rounded end adjacent to said seal mounted for reciprocal motion in said cylinder, a screw axially positioned within said cylinder, means extending outside of said cylinder for turning said screw, a nut co-acting with said screw, and a resilient member extending between said nut and the head end of said piston.

1,476,947. WINDING SECURING MEANS FOR DYNAMO-ELECTRIC MACHINES. ARTHUR J. BROWN, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed July 18, 1921. Serial No. 485,651. 6 Claims. (Cl. 171—207.)



3. In a dynamo-electric machine, a laminated core element having projecting pole pieces and coils disposed thereon, a clamping and bracing device located between and holding adjacent coils in assembled condition, end plates on said core having axially extending flanges, means associated with said end plates for holding said laminations clamped in assembled condition between said end plates, and means for securing said clamping device to the axially extending flanges of said end plates.

1,476,948. SELF-HEATING SOLDERING IRON. WALLACE V. CALLENDER, Chicago, Ill. Filed Nov. 20, 1920. Serial No. 425,310. 7 Claims. (Cl. 158—26.)

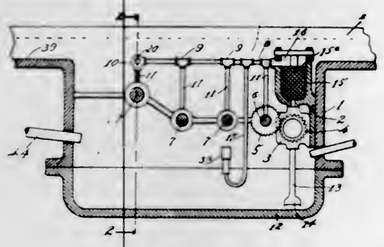


1. In a soldering iron, a head, a heat transmitting bar extending rearwardly from said head and having a section sufficient to convey, by conduction, heat necessary to keep the head at soldering temperature, and a heating element arranged parallel with said bar and mounted in a position to impart heat to the same, said heat transmitting bar and said heating element being located within the rearwardly projecting overall transverse dimensions of said head.

1,476,949. METAL PLANER. FORREST E. CARDULLO, Cincinnati, Ohio, assignor to The G. A. Gray Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 12, 1921. Serial No. 521,647. 18 Claims. (Cl. 184—5.)

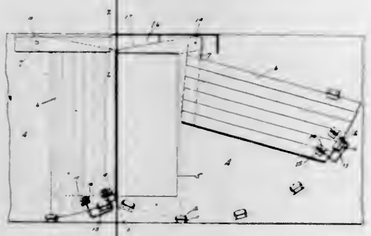
1. In a metal planer, in combination, means for forming permanently closed passages of relatively large area

contained between the ways of the planer bed and the V's of the planer table, means for supplying them with



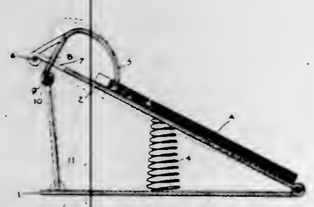
oil under pressure, and oil grooving cut in the surface of the table V's of relatively smaller area, leading from the said closed passages.

1,476,950. CAR DOOR. CHARLES A. CLARK, Sioux City, Iowa. Filed Apr. 11, 1921. Serial No. 460,363. 2 Claims. (Cl. 20—29.)



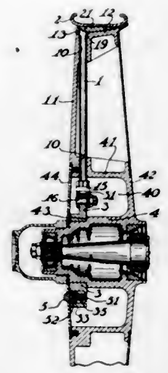
1. A closure of the type described, including closure-members pivotally supported adjacent their upper remote corners to swing from and toward each other in effecting their closing and opening movements, in combination with a car-structure, said closure-members having a covering or housing member between which and the car-structure is arranged said closures, said closure-members having their upper ends inclined from their adjacent to their remote corners, and said car-structure having a double-inclined member at the door-way co-operative with said inclined members of said closure-members.

1,476,951. DEVICE FOR CLAMPING AND HOLDING PAPERS, ETC. FREDERICK A. CELLARIUS, San Francisco, Calif. Filed Apr. 16, 1923. Serial No. 632,569. 4 Claims. (Cl. 129—35.)



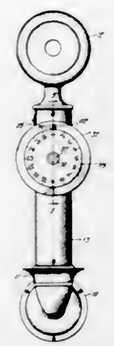
1. A device for clamping and holding papers, pads and the like comprising a base plate, a supporting plate hinged to the base plate, a spring interposed between said plates and tending to move the supporting plate upwardly, a jaw pivoted on and extending above the supporting plate between which jaw and the plate papers or pad are to be clamped, a projection on said jaw and an upstanding link pivoted to the base plate and projection at its ends.

1,476,952. LOCKING DEVICE FOR WHEEL RIMS. WILLIAM A. CLENCH, Seattle, Wash. Filed Apr. 7, 1921. Serial No. 459,321. 7 Claims. (Cl. 301—11.)



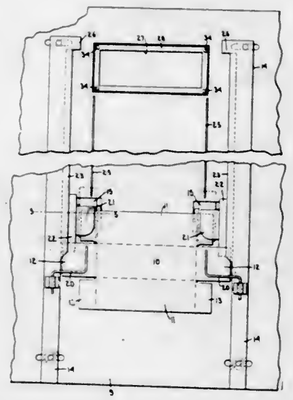
1. In a locking device for demountable-rim wheels including an actuator ring rotatable upon the wheel hub, a plate secured to the wheel and having slots therein extending through a circular arc, said ring having sockets therein of less angular extent than said slots and registrable therewith.

1,476,953. TELEPHONE APPARATUS. WALTER L. DAVIS, Chicago, Ill. Filed Dec. 9, 1920. Serial No. 429,305. 9 Claims. (Cl. 179—103.)



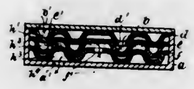
1. In a station set for intercommunicating telephone systems, the combination with a transmitter, a receiver, a common handle on which said transmitter and said receiver are mounted for contemporaneous use, and a selector also mounted on said handle and located substantially at the grip portion thereof for connecting the station with another station in the system.

1,476,954. BOX-MAKING MACHINE. HAROLD A. DENMIRE, Akron, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Jan. 16, 1922. Serial No. 529,407. 10 Claims. (Cl. 93—51.)



1. In a machine for making boxes from blanks having lateral extensions, a glue roller, means to bring certain of said extensions in contact with the roller and means to remove the other extensions from said roller.

1,476,955. TOBACCO PIPE. WILLIAM M. DE PARS, Paterson, N. J. Filed Jan. 23, 1922. Serial No. 531,122. 14 Claims. (Cl. 131—12.)



1. A smoke-passage-forming means for a smoking pipe including a set of three laminated members lying in face to face contact with each other and having the intermediate member forming between it and each of the other two members a part of the smoke passage.

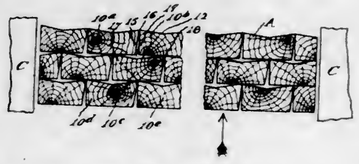
1,476,956. STEERING DEVICE. GEORGE P. DORRIS, St. Louis, Mo. Filed May 29, 1922. Serial No. 564,331. 8 Claims. (Cl. 74—79.)

1. A steering device, comprising a casing, a rocker shaft supported by the casing, a pair of cranks on said shaft within the casing in spaced relationship, a steering column supported by the casing and extending through the space between said cranks, right and left hand threads on the steering column within the casing, a pair of non-contacting sliding members engaging said threads respectively and extending through the space between said cranks to opposite sides of said crank shaft, bearings at opposite sides of said crank shaft supporting said sliding members, a rotary thrust member supported by each of said cranks, a flat surface on each of said thrust members, an arm on each of said sliding members engaging the flat surface of



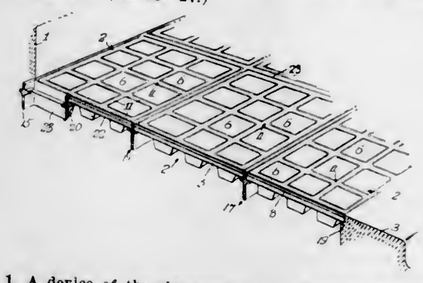
one of said members, and means whereby said cranks prevent said sliding members from turning and from contacting with each other.

1,476,957. PAVING BLOCK. GEORGE L. DRESSER, Albany, N. Y. Filed Aug. 10, 1920. Serial No. 402,516. 7 Claims. (Cl. 94—11.)



1. A paving block of general horizontal rectangular cross-section, one of whose vertical sides is depressed and one of the sides adjacent thereto cut away therefrom to provide edge portions for purpose of making contacts with the fourth face of an adjoining block.

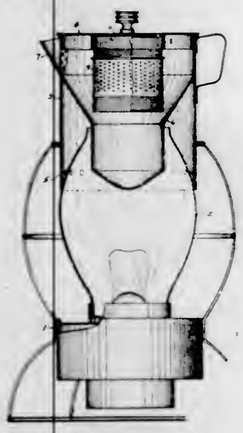
1,476,958. PAVEMENT LIGHT. MILES R. DUFFY, Chicago, Ill. Filed Mar. 28, 1921. Serial No. 456,478. 7 Claims. (Cl. 94—27.)



1. A device of the character described, comprising top and bottom frames, stamped from sheet metal and having aligned openings, prisms fitting in said openings, said prisms having outwardly projecting ribs between the top and bottom surfaces of said prisms and extending completely about the same, said ribs being between said frames, sheet gaskets having substantially the same shape and size of said frames and arranged on opposite sides of

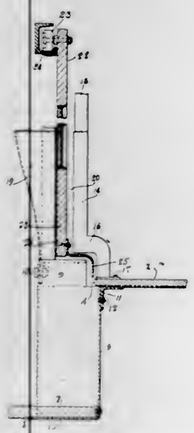
said ribs between the same and said frames, said gaskets having openings to receive said prisms and registering with the openings in said frames, and means for releasably clamping said frames together and against said ribs.

1,476,959. PERCOLATOR. NEWTON O. DUNCAN, Kingsville, Tex. Filed Apr. 17, 1923. Serial No. 632,765. 4 Claims. (Cl. 53—3.)



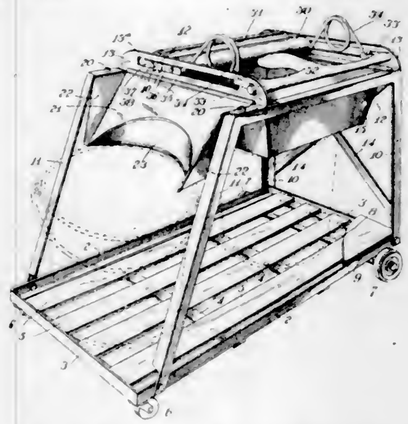
1. A percolator including a container whose lower end is contracted, an outside depending apron spaced from said container at its lower end and fastened to the container at its upper end.

1,476,960. RAILWAY CAR. THOMAS ELLIOTT, Cincinnati, Ohio, assignor to The Cincinnati Car Company, Winton Place, Ohio, a Corporation of Ohio. Filed Apr. 17, 1922. Serial No. 553,654. 4 Claims. (Cl. 105—343.)



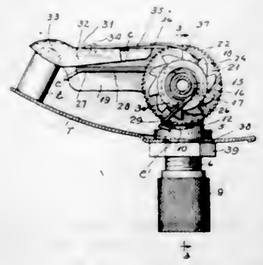
1. In a car, the combination with the floor, of a partition located outward beyond the floor and having its bottom edge above said floor and a shield secured to the partition and to the floor and forming a closure of the space between the floor and partition, said shield extending inwardly from the bottom edge of the partition and then downwardly to the outer edge of the floor.

1,476,961. MOP TRUCK. WALTER S. FINNELL, Chicago, Ill., assignor to American Scrubbing Equipment Company, Chicago, Ill., a Corporation of Delaware. Filed May 26, 1920. Serial No. 384,396. 5 Claims. (Cl. 15—262.)



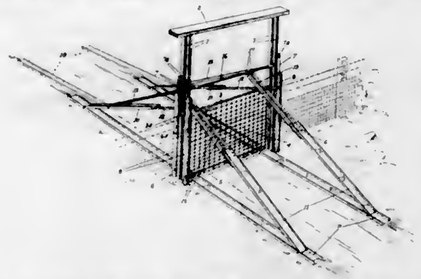
1. A mop truck comprising an open-sided frame adapted to carry pails in tandem, an elevated wringer basin over that portion of the frame which holds one of the pails, said basin having an open work bottom and a roller wringer mounted above said basin so that the mop passing down through the wringer may descend a distance within the basin and be received upon the open work bottom thereof.

1,476,962. SPARK-PRODUCING MECHANISM. WILLIAM J. FRISBIE, Chicago, Ill., assignor to Justrite Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 22, 1923. Serial No. 614,057. 7 Claims. (Cl. 67—20.1.)



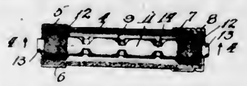
1. In spark producing mechanism of the class described, the combination of a frame, a pivot member on said frame, a friction wheel within said frame concentric with said pivot member, said frame having a passageway below said wheel, pyrophoric material in said passageway, means tending to hold said pyrophoric material in the path of the wheel periphery, a lever fulcrumed at one end on said pivot member at one side of said wheel and extending outwardly, ratchet teeth on the opposite side of said wheel, a pawl spring secured at its outer end on the lever with its inner end in engagement with said ratchet teeth, and a spring interposed between said lever and frame tending to resist swing of said frame in one direction and to swing it when released in the opposite direction, said pawl and ratchet teeth cooperating to rotate said wheel against the friction material when the lever is swung after release whereby gas igniting sparks are produced.

1,476,963. VEHICLE GATE. JOHN W. GIBBONS, Merced Falls, Calif., assignor of one-half to Timothy Carlon, La Grange, Calif. Filed June 14, 1922. Serial No. 568,314. 7 Claims. (Cl. 39—6.)



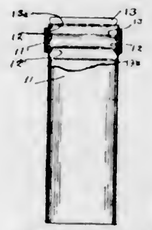
1. A vehicle gate comprising a rigid bar arranged for guided vertical movement, a foldable curtain structure depending from the bar, means acting to hold the bar rnised, and track means for the wheels of a vehicle flexibly mounted adjacent the ground beyond the curtain, and extending on both sides thereof, the upper ends of said track means crossing each other and resting on the bar, and an auxillary track member hinged to one of said track members and projecting beyond the upper end of the other track means and being normally supported thereby.

1,476,964. RENEWABLE FUSE. JOHN B. GLOWACKI, Chicago, Ill. Filed July 21, 1919, Serial No. 312,340. Renewed Apr. 25, 1923. 5 Claims. (Cl. 200—128.)



1. A renewable fuse comprising in combination a tube of insulating material, a fuse holder within the tube having metallic end pieces comprising clamps, contact members at each end of said tube, one of said members being adjustable longitudinally of the tube to clamp the fuse holder between said members and maintain electrical contact between said end pieces and said members.

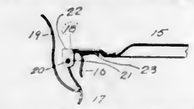
1,476,965. SHAVING-SOAP-STICK HOLDER. FRANK GRANT, Westfield, Mass. Filed Mar. 22, 1922. Serial No. 545,848. 1 Claim. (Cl. 206—56.)



A shaving stick holder provided with an expandible portion having an internal rib and a shaving stick having a series of longitudinally spaced recesses into which the rib may successively fit.

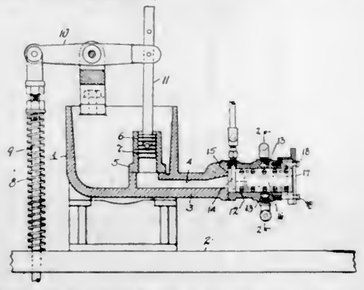
1,476,966. DETACHABLE HINGE. FREDERICK HACHMANN, St. Louis, Mo., assignor to William H. Gregg, St. Louis, Mo. Filed Feb. 21, 1921. Serial No. 446,889. 2 Claims. (Cl. 16—158.)

1. A removable hinge, comprising a spring clamp formed of two opposing spring arms curved towards each other, an upwardly curved extending projection formed integral with the outer one of said arms, a pair of trunnions formed integral with said clamp, a clamp provided with a pair of perforated ears mounted on said trunnions, said



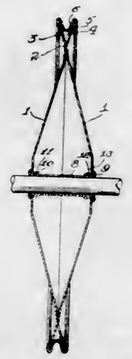
last mentioned clamp having spring arms for engaging the upper and lower surfaces of a lid for detachably connecting said lid to the hinge.

1,476,967. STRIP-FORMING MECHANISM. ARTHUR H. HEDLY, Chicago, Ill., assignor to The Ludlow Typograph Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 3, 1922. Serial No. 533,831. 5 Claims. (Cl. 207—17.)



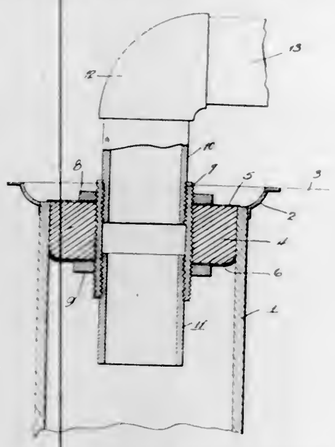
1. In mechanism of the character described, a forming die having a plurality of parallel channels whereby a corresponding number of strips may be simultaneously formed, such channels being partially closed off at the port end of the die and the partition therebetween being recessed to leave the port opening of full width.

1,476,968. WHEEL. CHESTER A. HEELE, Rochester, N. Y., assignor to Bessteel Products Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Jan. 18, 1921. Serial No. 438,219. 1 Claim. (Cl. 301—63.)



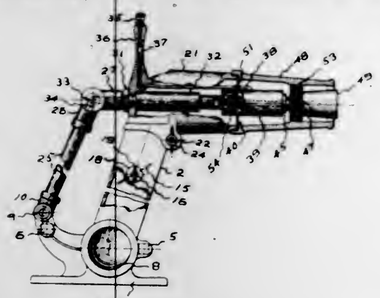
A wheel comprising two sheet metal disks provided with central openings and small openings to one side of the central openings, and a hub extending through the central openings and having ends cooperating with the outer faces of the disks and having also annular hollow ribs engaging the inner faces of the disks, for preventing inward movement of the disks, the hollow ribs opening to the interior of the hub to provide lubricant grooves, said ribs having openings adjacent the openings of the disks through which a lubricant may be introduced into the lubricant grooves.

1,476,969. SEWER CLEANER. HARRY A. HOWARD, Spokane, Wash. Filed Aug. 4, 1921. Serial No. 489,855. 2 Claims. (Cl. 137—77.)



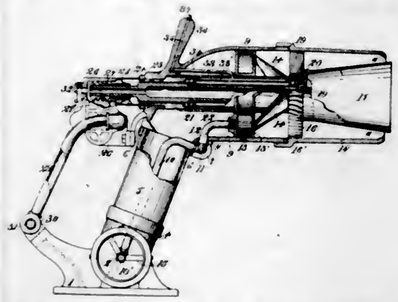
1. A device of the character described comprising in combination with a sewer pipe, a flexible disk mounted in the pipe, a retaining nipple having the disk mounted thereon, the ends of the nipple being extended and provided with exterior screw threads, lock nuts mounted on opposite ends of the nipple and adapted to engage the flexible disk whereby the disk may be spread outwardly to tightly engage the sewer pipe when one lock nut is moved toward the other, and means to conduct a pressure of air, water or steam through the said retaining nipple.

1,476,970. OIL BURNER. BENJAMIN W. HURD, San Francisco, Calif., assignor to Turbine Fuel Oil Burner Co., San Francisco, Calif., a Corporation of Nevada. Filed July 20, 1921. Serial No. 486,201. 4 Claims. (Cl. 158—76.)



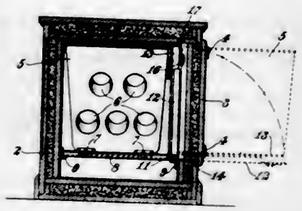
1. In combination with an oil burner including a support, a tubular burner body, a fuel channel extending longitudinally thereof, a fluid burner cup rotatably mounted in said nozzle and into which said channel discharges, and a pair of supporting pipes pivotally mounted at their inlet ends to said support, and at their discharge ends pivotally mounted respectively to said burner for supplying air thereto and the other to said channel for supplying oil thereto, said pivotal connections being disposed in a plane substantially in alignment with the longitudinal axis of the burner, said pipes providing a parallel link mounting for said burner affording a means whereby the burner when moved into and from active firing position is maintained in a substantially horizontal position.

1,476,971. OIL BURNER. BENJAMIN W. HURD, San Francisco, Calif. Filed July 29, 1922. Serial No. 578,491. 8 Claims. (Cl. 158—77.)



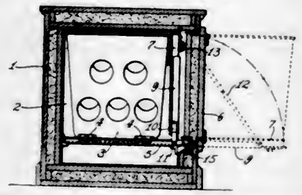
2. In an oil burner for the described purpose, the combination with a base structure, a burner body mounted thereon, an atomizing cup mounted within the said body for free rotary movement, a turbine mounted on said cup within the burner body, a fluid pressure receiver held within the burner body in rear of the atomizer, means for supplying fluid under pressure to said receiver, nozzles extended from the receiver for ejecting fluid therefrom onto the turbine under pressure, and a pump thrown into action by the rotary movement of the atomizing cup for supplying oil thereto.

1,476,972. SHOWCASE REFRIGERATOR. HARRY L. HUSSMANN, St. Louis, Mo., assignor to Hussmann Refrigerator & Supply Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 21, 1921. Serial No. 463,250. Renewed July 16, 1923. 8 Claims. (Cl. 62—31.)



1. In a show case refrigerator, having a compartment, a refrigerant container therein and a door-way therefor, and means for guiding said container for movement into and out of said compartment, including a pan mounted for movement into and out of said doorway.

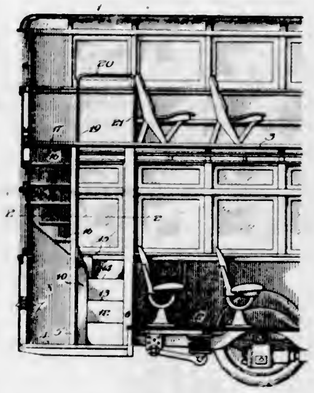
1,476,973. SHOWCASE REFRIGERATOR. HARRY L. HUSSMANN, St. Louis, Mo., assignor to Harry L. Hussmann Refrigerator & Supply Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 1, 1922. Serial No. 540,313. 5 Claims. (Cl. 62—37.)



1. A show-case refrigerator having a compartment provided with a door-way and a door therein, a refrigerant container in said compartment and having a metallic

wall opposite but close to said door, said container being constructed and positioned to cause circulation of air between said wall and said door, and a sill for said doorway formed to direct condensed moisture into said compartment.

1,476,974. INSIDE STAIRWAY AND FOLDING DOOR FOR DOUBLE-DECK MOTOR COACHES. ALBERT E. HUTT, Philadelphia, Pa. Filed Mar. 5, 1923. Serial No. 622,755. 6 Claims. (Cl. 296—28.)



1. In a double deck motor coach, an upper and lower deck, a stairway common thereto, a stair door post spaced away from the lower treads of said stairway, a coacting door post between which access is had to said stairway, and a folding door hinged to said stair door post and adapted when open to abut against the opposite post and when folded to be positioned between the stair door post and said stairway and out of the pathway to the latter.

1,476,975. DENTAL MATRIX CLAMP. JAMES W. IVORY, Philadelphia, Pa. Filed May 31, 1921. Serial No. 473,576. 6 Claims. (Cl. 32—17.)



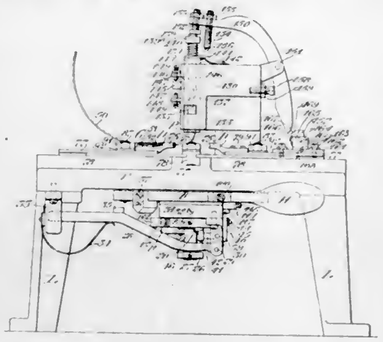
1. In a dental matrix retainer, a movable carrier for the matrix, a supporting member for said carrier, and means for operating said carrier, and a tongue which is connected with said supporting member and adapted to engage tightly the side of the body of the matrix.

1,476,976. VIBRATORY CONTROLLING DEVICE FOR DENTAL AND SURGICAL INSTRUMENTS. JAMES W. IVORY, Philadelphia, Pa. Filed Aug. 13, 1921. Serial No. 491,967. 3 Claims. (Cl. 32—10.)



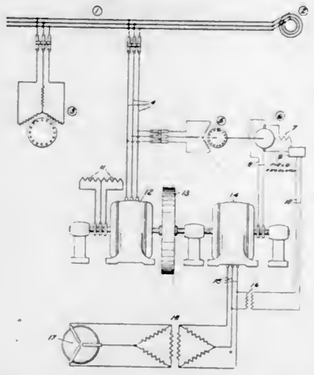
1. In a dental hand piece of the character stated, a hand piece, a tool carrying shank, an inner nose piece, an anterior nose piece, a resilient tubular member on said shank between the adjacent forward ends of said inner and anterior nose pieces, a sleeve extending rearwardly of the anterior nose piece to the forward member of the hand piece, and means for connecting said sleeve with said member of the hand piece.

1,476,977. AUTOMATIC CHAIN-MAKING MACHINE. BROR J. JACOBSON, Providence, R. I., assignor to Martin-Copeland Company, Providence, R. I., a trusteeship. Filed July 3, 1920. Serial No. 393,857. 42 Claims. (Cl. 59—17.)



1. In a machine for making curbed chain, the combination of separate means for concurrently grasping two adjacent links in the chain, and means for effecting relative rotative movement between the two grasping-means to turn one of the grasped links in relation to the other whereby a portion of one of the links will be twisted to curb said link.

1,476,978. SYSTEM OF CONTROL. FRASER JEFFREY, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Sept. 20, 1919. Serial No. 325,592. 5 Claims. (Cl. 171—119.)

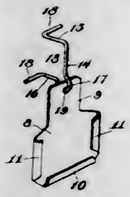


1. In a system for supplying current to a fluctuating load, a fly-wheel unit comprising an alternating current generator and an induction motor, said motor being connectible to a source of alternating current, a permanent resistance connected in circuit with the rotor of said motor, and means for regulating the voltage of said generator responsive to a factor of the power supplied by said alternating current generator.

1,476,979. TAG-HOLDER. FRANK JEZ and THOMAS DUFFY, Taylor, Tex. Filed Oct. 21, 1921. Serial No. 509,302. 1 Claim. (Cl. 40—16.)

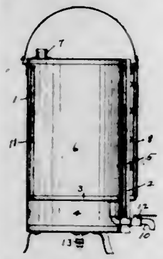
In a holder for display tag plates, an anchoring member formed of a single strand of spring wire, said wire being bent to provide a body portion straight from end to end thereof, legs projecting in the same direction at

right angles to and from the said ends of said body portion and arranged to lie in superimposed relation and in the same plane, feet extending at right angles to and from the extremities of said legs in parallel relation to each other equi-distantly in opposite directions beyond the plane of the body portion, and an elongated loop



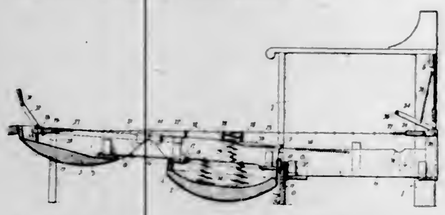
formed in said strand at the juncture of said body and one of said legs and projecting outwardly beyond the opposite side of the body from said leg, said loop having its entrance between the juxtaposed ends of said body and leg and having its major axis lying on a diagonal line passing through the space between the legs.

1,476,980. LIQUID-DISPENSING TANK. CHARLES W. JOHNSON, Harrisburg, Tex. Filed Aug. 29, 1921. Serial No. 496,293. 1 Claim. (Cl. 221—95.)



A device of the character described, including a tank, having a vertical corrugation, a transverse partition therein separating the tank into an upper and a lower compartment, a delivery spout leading from the bottom of the upper compartment, a valve controlling said spout, a transparent tube connected to and upstanding from said spout and located in said corrugation, a vertical overflow pipe connected into the upper compartment at intervals, valves controlling said connections, the lower end of said overflow pipe being connected into said lower compartment, and an overflow tube within the tank and leading from the top thereof and connected into said bottom compartment.

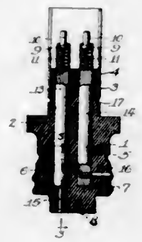
1,476,981. CONVERTIBLE FURNITURE. WILLIAM J. KELLY, Clinton, Iowa, assignor to The Seng Company, Chicago, Ill. Filed Aug. 16, 1918. Serial No. 250,187. 6 Claims. (Cl. 5—15.)



1. In a bed davenport, an inner stationary section having side boards with recesses adjacent their rear ends, an outer and an intermediate section hinged together, the latter hinged to the front of the side boards, a pair of spring supported arms each having a pin projecting therefrom adapted to be engaged by the intermediate section when it is moved to closed position, and the pins being seated in the recesses in this position.

5. In a bed davenport, a frame; a seat section and a back section pivoted together, and the seat section pivoted at the front side of the frame, means for limiting the pivoted movement of the back and seat sections in both directions; a support for the back section only which inclines the seat and back sections upwardly from the pivotal connection with the frame; a foldable bed fabric; and means for swingingly mounting the ends of the fabric within the frame and at the outer end of the back section so that when the sections and the fabric are extended the fabric will be drawn taut in a plane above the pivotal mounting and above the side edges of the back and seat sections.

1,476,982. ADAPTER. THOMAS J. KERWIN, Chicago, Ill., assignor to Edmunds & Jones Corporation, a Corporation of New York. Filed July 16, 1921. Serial No. 485,350. 2 Claims. (Cl. 173—357.)

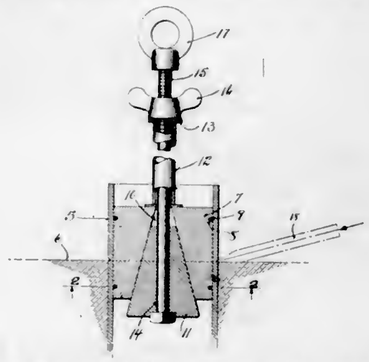


1. An adapter comprising an insulator having a pair of main bores extending longitudinally into the same from the forward end thereof and both terminating short of the rear end of the insulator, a continuation bore of smaller diameter leading from the bottom of one bore to the rear end of the insulator and a transverse bore leading from near the bottom of the other bore to the side of the insulator, a pair of extensible conducting members respectively socketed in the said main bores and projecting beyond the forward end of the insulator, a shell carried by the insulator and housing the projecting portions of the conducting members and having means thereon for interlocking with thg base of a lamp, a screw shell housing a portion of the insulator near the rear end thereof, an end contact disposed on the rear end of the insulator, one of the said conducting members having an integral portion extending through the said extension bore and anchored to the axial contact member, and a conducting element disposed in the transverse bore and connecting the screw shell with the other conducting member.

1,476,983. APPARATUS FOR CUTTING PIPE. J. KING, Milwaukee, Wis. Filed Apr. 26, 1921. No. 464,670. 1 Claim. (Cl. 81—187.)

A device for use in cutting drain pipe after such pipe has been secured in a projecting manner in a cemented floor, said device comprising a tapered conical member, a plurality of annular members together forming a substantially complete cylinder having an outer cylindrical surface adapted to contact with the inner surface of the pipe and having a conical inner surface contacting with said conical member, a threaded rod terminating in a suspension member adapted to be manually held, a sleeve slidably mounted upon said rod and bearing at one end against the annular member, and a wing

nut threaded upon said rod and bearing against said sleeve, whereby said device may be freely lowered into said projecting pipe and thereafter the nut tightened



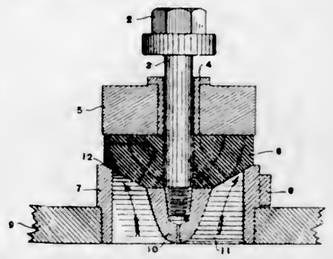
to force said annular member into contact with the inner surface of said pipe to damp out vibration when said pipe is chiseled.

1,476,984. ADVERTISING DEVICE. CLIFFORD BURCH KIRKPATRICK, Wichita Falls, Tex. Filed Dec. 16, 1922. Serial No. 607,435. 2 Claims. (Cl. 40—10.5.)



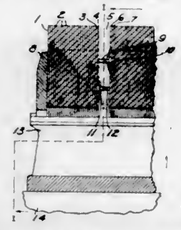
1. An advertising device of the character described, comprising a flat piece of metal formed into a substantially triangular shape, a clamp on one apex thereof, a pair of apertured side flanges on one side of said triangle near the top thereof, a pair of spring clamping members on one side of said triangle, a plurality of stationary clamping members above said spring clamping members.

1,476,985. PUMP VALVE. GUSTAF L. KOLLBERG, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Nov. 1, 1919. Serial No. 335,526. 3 Claims. (Cl. 251—147.)



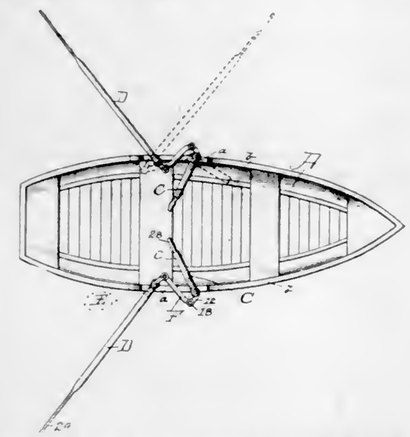
1. An article of manufacture comprising an india rubber pump valve having a central bore, a plane seating surface perpendicular to and intersecting said bore, a peripheral bonnding surface extending lengthwise of said bore, and a beveled seating surface intersecting said plane and said peripheral surfaces to form obtuse angled edges only.

1,476,986. VENTILATING-DUCT CONSTRUCTION FOR DYNAMO-ELECTRIC MACHINES. WALTER W. KUSTERMAN, Cincinnati, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Sept. 22, 1919. Serial No. 326,094. 7 Claims. (Cl. 171—206.)



4. In a core for dynamo-electric machines, two laminated bodies including a pair of edge laminæ forming part of said bodies respectively, at least one of which laminæ is perforated, and means for spacing said pair of laminæ apart to form the walls of a vent duct between said bodies including means passing freely through said perforations but non-detachably associated with said laminæ, the latter being unattached to adjacent laminæ.

1,476,987. BOW-FACING OAR. ANDREW LARSEN, Fox Lake, Ill. Filed Apr. 25, 1923. Serial No. 634,426. 3 Claims. (Cl. 9—25.)

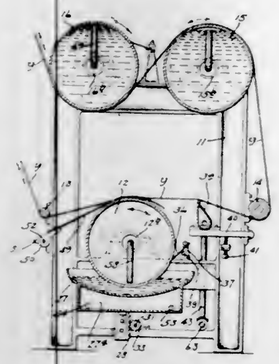


1. A bow-facing oar comprising a handle member and a blade member, a casting secured to the handle member having an integral lug projecting beyond the end of the handle member, a ball, a tapered neck connecting the ball with the under side of said casting, a similar casting secured to the adjacent portion of the blade member, a link pivotally connecting the two castings through their respective projecting lugs, a pair of oar locks for said castings, each having a socket bearing for the ball, and cooperating means on the casting and oar lock for limiting the amount of "dip" given to the blade member.

1,476,988. CARBONIZING MACHINE. WILLIAM W. LATTA, Minneapolis, Minn., assignor of one-third to Edward Barchardt, one-third to Philip W. Wirth, and one-third to Latta & Manders Co., all of Minneapolis, Minn. Filed July 2, 1921. Serial No. 482,092. 8 Claims. (Cl. 91—51.)

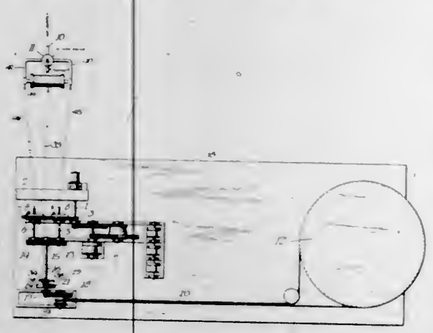
1. A machine for coating paper webs or sheets comprising a pan for containing a coating material and means for keeping said pan hot, a coating roller ar-

ranged to run partly immersed in the hot liquid contained in said pan, means for guiding the paper web against the periphery of said coating roller, a cooling roller over which the paper web is arranged to run, and a blanking strip applied to said coating roller where it contacts with the paper web.



7. In a coating machine, the combination with a coating roller and a co-operating pan for containing a coating material, of a melting pot located above said pan and having a feed tube delivering thereto, said melting pot and pan having steam chambers and steam supply connections whereby they may both be kept hot and the coating material therein contained kept in fluid condition.

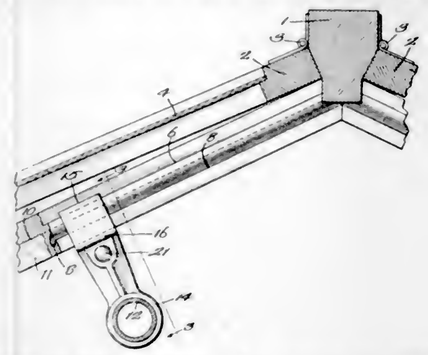
1,476,989. BRAKE AND CONTROL SYSTEM FOR SWINGING BOOMS. GEORGE B. MASSEY, Chicago, Ill., assignor to Randolph-Perkins Co., Chicago, Ill., a Corporation of Illinois. Filed May 24, 1923. Serial No. 641,085. 9 Claims. (Cl. 192—12.)



1. A control system of the class described, comprising driving gears, a driven shaft, a pneumatic clutch for connecting said driving gears with said driven shaft, a brake for said driven shaft, a valve for controlling the operation of said pneumatic clutch with connections for operating said brake.

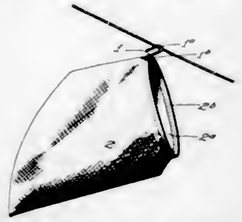
1,476,990. REENFORCED RAFTER FOR GREENHOUSES. PHILIP L. MCKEE, Chicago, Ill. Filed Sept. 12, 1921. Serial No. 500,255. 1 Claim. (Cl. 109—4.)

In a greenhouse, the combination of a wooden rafter embodying a flat metallic stiffening bar inserted from the under side, the bar being arranged on edge, and a pipe hanger suspended from the rafter, said hanger being in the form of a clamp engaging the sides of the rafter, and means for regulating the pressure of the



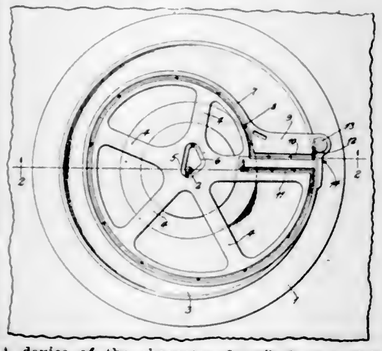
hanger on the sides of the rafter, whereby the hanger serves the dual purpose of supporting piping and clamping the sides of the rafter against the reinforcing bar.

1,476,991. CLOTHESPIN CARRIER. JENNIE R. MCMATH, San Diego, Calif. Filed Apr. 5, 1922. Serial No. 549,758. 2 Claims. (Cl. 68—11.)



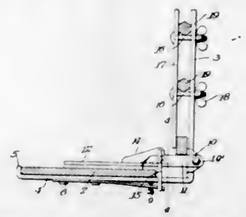
1. In a device of the class described, a fabric receptacle provided with an opening at one end and with a heading at said open end, and a ring within said heading provided with a loop on one end and a supporting hook on the other end and provided with an angular bend adjacent said hook adapted to engage said loop.

1,476,992. REPEATING ATTACHMENT FOR TALKING MACHINES. DUNCAN R. MCVICKER, St. Louis, Mo. Filed Oct. 16, 1922. Serial No. 594,940. 3 Claims. (Cl. 274—15.)



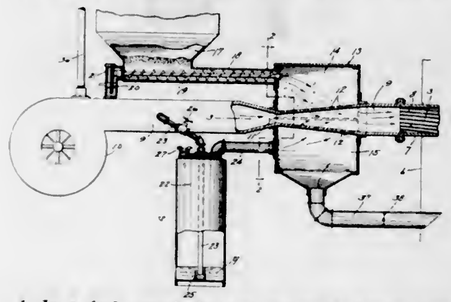
1. A device of the character described, comprising a member adapted to be placed upon and connected with a talking machine record and having a slot for the initial inward travel of the talking machine needle and having a groove connected with said slot into which said needle moves from the slot, said groove being formed on gradually increasing radii to move the needle from the inner circumference to the outer circumference of the record grooves, said member having a second slot connected with the outer end of said groove into which the needle moves for a second reproduction of the record.

1,476,993. ATTACHMENT FOR VEHICLES. BARTHOLOMEW VINCENT MCQUINN, Cameron, Mo. Filed Apr. 14, 1922. Serial No. 552,587. 5 Claims. (Cl. 224—29.)



1. The combination with an automobile, of a luggage carrier for the running board thereof, comprising angle brackets, means clamping the brackets on the running board, plates laterally adjustable with respect to the vertical arms of the brackets, and members clamped between said plates and arms.

1,476,994. FUEL COMMINGLER AND BURNER. HANS JULIUS MEYER and CHARLES BRUCE WATSON, Minneapolis, Minn. Filed June 4, 1923. Serial No. 643,361. 17 Claims. (Cl. 110—22.)



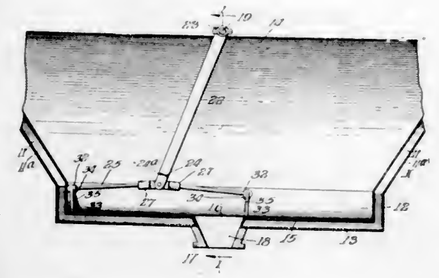
1. In a fuel commingler and burner, a Venturi tube having fuel intake means in its expanding delivery portion, means for delivering fuel to said fuel intake means, and means for forcing a blast of air through said Venturi tube.

1,476,995. TRUSS. JOHN A. MILLER, Homewood, Ill. Filed Apr. 23, 1923. Serial No. 633,885. 4 Claims. (Cl. 108—23.)



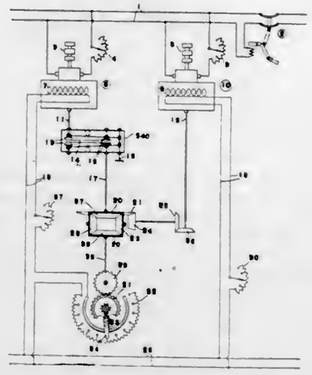
1. In a truss structure, the combination of outer and inner arch members and a web structure, said arch members being each built up of laminations and being parallel, the web structure comprising an outer row of blocks and an inner row of blocks, the blocks of each row being spaced apart and the blocks of one row being longitudinally offset from but overlapping the blocks of the other row, and bolts extending transversely through said arch members and the overlapping ends of said blocks.

1,476,996. AGITATOR. JULIUS JOHN MOJONNIER and HARLEY RAY PHILLIPS, Oak Park, Ill., assignors to Mojonnier Bros. Co., Chicago, Ill., a Corporation of Illinois. Filed May 29, 1922. Serial No. 564,633. 20 Claims. (Cl. 259—47.)



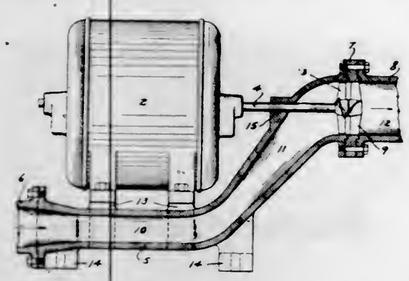
1. The combination with a hopper, having an outlet or discharge opening, of an oscillatory shaft arranged transversely of said hopper, an operating arm extending into said hopper and attached to said shaft for movement therewith, collars disposed on opposite sides of the lower end of said arm and pivoted thereto, a rod secured to each collar, a socket at the free end of each rod, a bearing member carried by each socket and a gate valve pivoted for co-operation with said bearing member.

1,476,997. SPEED-CONTROL SYSTEM. WILLIAM N. MOTTER, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Nov. 3, 1919. Serial No. 335,963. 4 Claims. (Cl. 172—293.)



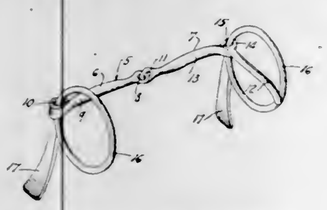
2. In combination, two motors, means for maintaining the relative speed of said motors substantially constant including differential means having elements which are adapted to be continuously responsive to the speeds of said motors, a field rheostat for one of said motors controlled by differential movement of said differential means, said rheostat having a definite control range, and means providing for the condition of abnormal difference in speed between said motors including an interruptible driving connection between said rheostat and said differential means whereby said differential means cannot move said rheostat out of its control range and whereby a differential movement of said differential means corresponding to motion of said rheostat into said control range causes reestablishment of said driving connection.

1,476,998. HYDRAULIC MACHINE. FORREST NAGLER, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed July 11, 1921. Serial No. 483,933. 4 Claims. (Cl. 103—87.)



1. In combination, a bladed rotor, an energy translating device having a rotor direct connected with said bladed rotor, and a single casing providing a direct support for said device and for said bladed rotor and forming a conduit communicating with said bladed rotor, said casing conduit having a portion extending in line with the axis of said rotors, another portion parallel to said axis, and another portion connecting said axil and parallel portions and forming an oblique angle with said axis.

1,476,999. BRIDLE BIT. HENRY A. OELKERS, Mazeppa, Minn. Filed May 22, 1922. Serial No. 562,734. 1 Claim. (Cl. 54—7.)

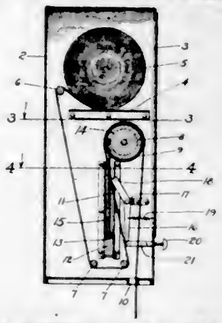


A bridle bit including a pair of mouth piece sections universally connected at their adjacent inner ends, and a rearwardly projecting arm rigid with the outer end of one of said sections and extending at right angles thereto to provide an arm for engagement with the jaw of an animal, the outer ends of said sections having integral flat extensions return-bent to form bearings for rein rings, the other of said sections being devoid of arms or projections.

1,477,000. LOCK DEVICE FOR TOWEL CABINETS. ALBERT L. OVERHOLT, Minneapolis, Minn., assignor, by mesne assignments, to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah. Filed Apr. 10, 1922. Serial No. 551,390. 11 Claims. (Cl. 45—32.)

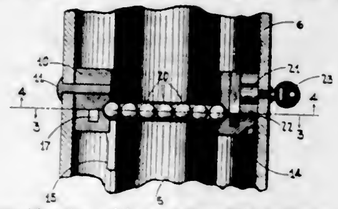
1. A towel holder comprising a support for a roll of clean toweling, a dispensing roll over which the towel web passes and a measuring device including a bar movable into and out of engagement with the towel web on the roll and connected with said roll and actuated thereby for clamping the towel web on the surface of the roll and checking the rotation thereof at a predetermined point.

10. A towel holder comprising a support in the upper portion thereof for a roll of clean towel, guide means around which the web of clean towel passes, a dispensing roll beneath and near the towel roll and over which the clean towel web is carried, an opening being provided in the lower portion of said holder through which the clean web is fed to the user, and a measuring device



actuated by the movement of said dispensing roll for clamping the towel web thereon and checking the feed.

1,477,001. AUTO STEERING WHEEL. THOMAS PARKER, Toronto, Ontario, Canada. Filed May 16, 1922. Serial No. 561,358. 1 Claim. (Cl. 70—90.)



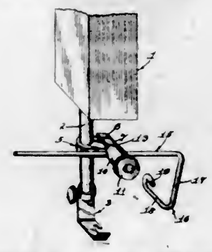
The combination with an automobile steering rod and column, of two ring members attached to the said rod and column, respectively, recesses formed in the steering rod ring member, an opening formed in the column ring member, a groove formed on said steering rod, channels provided on said rings, ball bearings arranged in the said groove, the said ball bearings adapted for movement in said steering rod groove and the channels of said rings, a lock arranged in said column ring member, a plunger bolt connected to said lock, and said bolt adapted for actuation through a key into said lock, for entering one of the recesses in the steering rod ring.

1,477,002. ROOF-FRAMING SQUARE. JOHN PARKHILL, Rochester, Minn. Filed Sept. 19, 1921. Serial No. 501,782. 7 Claims. (Cl. 33—113.)



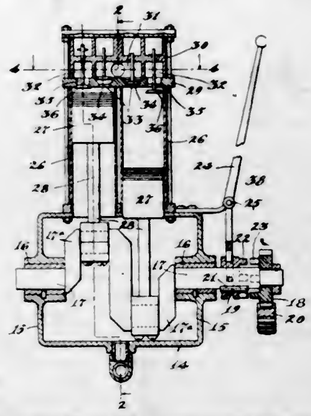
1. A square, each arm of which has a straight edge and graduations for said edge thereof measured from the corresponding edge of the other arm for a unit of measurement and fractions thereof, one arm having additional graduations for said edge thereof measured from the corresponding edge of the other arm and representing the lengths of hypotenuses of right triangles each having as one of its sides the unit of measurement and having as their other sides a series of increasing graduated measurements for increasing "rises" per unit.

1,477,003. SEWING-MACHINE ATTACHMENT. BENJAMAN C. PENN, Greenville, Miss. Filed June 12, 1922. Serial No. 567,697. 2 Claims. (Cl. 112—151.)



1. An attachment of the class described comprising a head to be slidably mounted on a presser bar of a sewing machine and having laterally extending clamping arms, a bolt mounted in said arms and having an aperture extending transversely therethrough, a rod mounted for longitudinal adjustment in said aperture and a clamping nut carried by the bolt to clamp said rod between it and one of said arms.

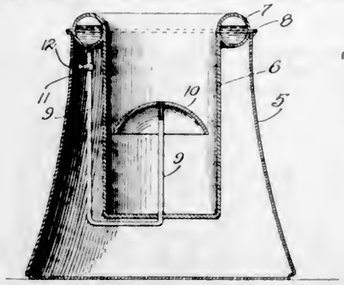
1,477,004. AUXILIARY-BRAKE SYSTEM. WALTON J. RHODES, Los Angeles, Calif. Filed Aug. 30, 1921. Serial No. 496,807. 5 Claims. (Cl. 188—99.)



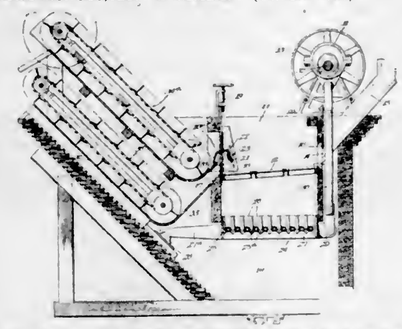
1. The combination with a motor vehicle and its driving shaft, of a pump, means for driving said pump from said driving shaft, means for rendering said pump driving means inoperative, liquid circulation tubes associated with said pump, means whereby a continuous circulation of liquid through said tubes in one direction may be effected onoperation of said pump, and means for controlling the circulation of liquid through said tubes.

1,477,005. SANITARY CUSPIDOR. STEPHEN RIANDA, Watsonville, Calif. Filed June 20, 1923. Serial No. 646,641. 4 Claims. (Cl. 4—261.)

1. In a sanitary cuspidor, inner and outer receptacles, means for supporting the inner receptacle within the outer receptacle, and a disinfectant receptacle incorporated in the construction of the inner receptacle and means for supplying a disinfectant from said disinfectant receptacle to the inner receptacle, comprising a communication between the disinfectant receptacle and the inner receptacle, including a dome shaped cap supported within the inner receptacle with the communication terminating centrally thereof whereby the disinfectant fluid will be caused to trickle down over the dome shaped cap and collected in the bottom of the inner receptacle.

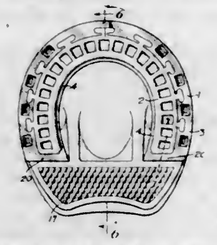


1,477,006. JIG MECHANISM. ROBERT A. RILEY and HAROLD O. KNAPP, Pottsville, Pa. Filed Mar. 25, 1922. Serial No. 546,723. 3 Claims. (Cl. 83—79.)



1. In a jig, the combination of a screen, a box surrounding the screen and defining an upward passage through the screen and a piston extending into the bottom of the box, bars defining axial passages through the piston and providing valve seats, valve elements above the piston mounted for movement toward and away from the seats in a direction at right angle to the plane of the piston, a lever for supporting the piston, means for pivotally supporting one end of the lever and means at the opposite end of the lever for moving it about the pivot, the bars extending in parallel relation between opposite walls of the box and the valve elements being cylindrical bodies.

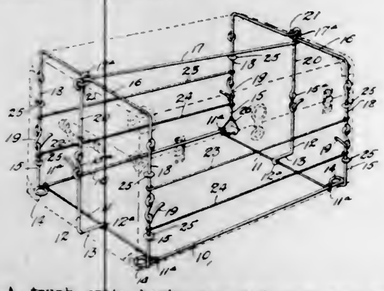
1,477,007. HORSESHOE. FREDERICK CONRAD ROBERTSON, Spokane, Wash., and PHILLIP PATRICK ROONEY, New York, N. Y., assignors, by mesne assignments, to Rubber-Metal Horse Footwear, Inc., Buffalo, N. Y., a Corporation of New York. Filed Apr. 2, 1921. Serial No. 457,863. 12 Claims. (Cl. 168—13.)



4. In a horseshoe of the character described, the combination with a pad having an enlargement at one end, of a

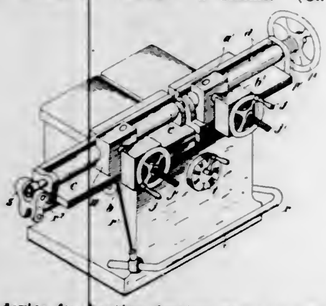
tip therefor formed with a rubber section which projects above the body of the tip sufficiently to coact with said projection for forming a substantially even contact surface.

1,477,008. TRUNK CRATE. ISRAEL J. SAWYER, Haskell, Okla. Filed July 11, 1922. Serial No. 574,201. 5 Claims. (Cl. 220—6.)



1. A trunk crate having separable top and bottom members for respective engagement with the upper and lower sides of a trunk, and end and side stay elements for connecting said members and having latch elements for securing the same in their operative positions, the bottom member having parallel rocker elements connected by transverse tie-rods.

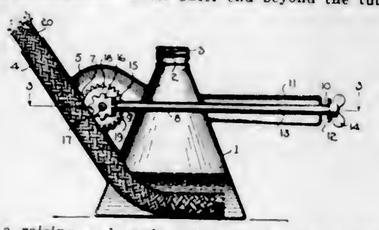
1,477,009. DEVICE FOR HEATING FORGING PIECES BY ELECTRIC-RESISTANCE HEATING. EDMUND SCHRÖDER, Berlin, Germany, assignor to the Firm Braun-Brüning & Co., Basel, Switzerland. Filed July 6, 1921. Serial No. 482,740. 2 Claims. (Cl. 219—4.)



1. A device for heating forging pieces and the like by electrical resistance heating, comprising, in combination, two co-axial tubes; a transformer; conducting connections between said tubes and the poles of said transformer; and two pairs of gripping jaws, of which one is in contact with one of said tubes and the other is in contact with the other of said tubes; said pairs of jaws being adapted to be displaced along the said tubes, as well as to be turned upon them, for the purpose set forth.

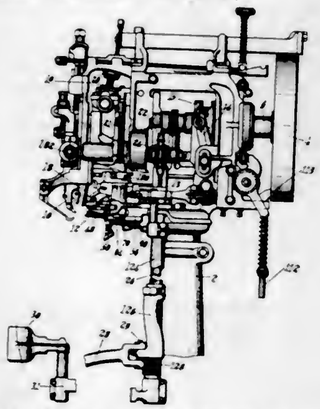
1,477,010. TORCH. ARCHIE SCOTT, St. Petersburg, Fla. Filed Sept. 30, 1922. Serial No. 591,601. 2 Claims. (Cl. 67—65.)

2. A torch comprising a receptacle having a filling opening, a closure for the same, a tubular spout communicating with the receptacle, a housing joining the spout to the adjacent side of the receptacle, said spout having an opening communicating with the housing, a tube traversing the receptacle in line with the spout, one end of the tube extending into the housing, the other end extending horizontally outward from the opposite side of the receptacle, bearings formed in the sides of the housing, a stub shaft mounted in said bearings transversely of the tube, star wheels mounted on the stub shaft and extending through the opening in the spout to engage a wick, a spur gear carried by the stub shaft between the star wheels, a shaft mounted in the tube and having at its inner end a spur gear meshing with the first named spur gear, said shaft having a thumb nut at its outer end beyond the tube to



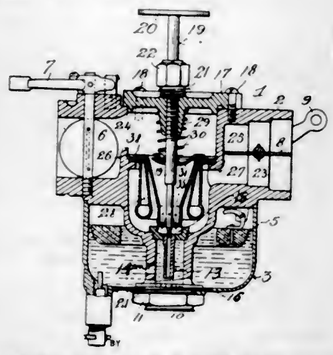
effect a raising or lowering of said wick, and a tubular handle surrounding the exposed portion of the tube and connected to the receptacle.

1,477,011. LASTING MACHINE. THOMAS H. SEELY, Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 3, 1918, Serial No. 252,405. Renewed Jan. 29, 1923. 79 Claims. (Cl. 12—2.)



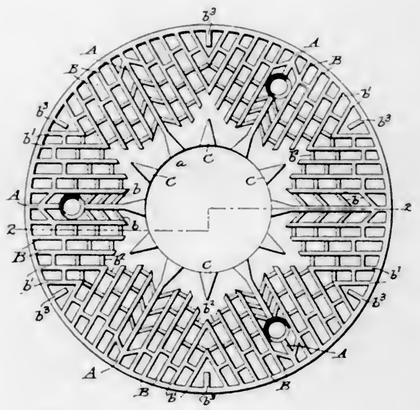
1. In a machine of the class described, the combination of a gripper for working successive portions of an upper over a last, fastening inserting means for securing the upper in position, and knee-controlled means for enabling the attendant to alter at will the operation of the fastening inserting mechanism while maintaining unchanged the operation of the gripper.

1,477,012. CARBURETOR. EDWARD J. SIMPSON, New York, N. Y. Filed Aug. 18, 1921. Serial No. 493,228. 3 Claims. (Cl. 261—44.)



2. A carburetor comprising a casing having an air inlet, a fuel inlet and a mixture outlet, an enclosing a mixing chamber and a well surrounding said fuel inlet, an annular pendant air guide projecting downward close to said well, and a hollow automatic valve within said air guide forming an annular air passage between them and also close to said well, its upper part closing such air passage except when the valve is unseated by suction.

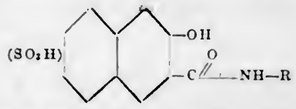
1,477,013. ATTRITION-MILL PLATE. SIMON SNYDER, Muncy, Pa., assignor to Sprout, Waldron & Co., Muncy, Pa., a Corporation of Pennsylvania. Filed Mar. 2, 1923. Serial No. 622,342. 7 Claims. (Cl. 83—3.)



1. An attrition mill plate having a grinding surface consisting of a series of radial ribs or projections which extend outwardly from a central opening therein to its outer circumference, and shorter ribs on opposite sides of the longer ribs which gradually decrease in length in opposite directions to an intermediate point, at which point the inner ends of two of the shorter ribs meet, the latter ribs being arranged in V-shaped form, a wedge-shaped rib or projection located in the space between the inner ends of the two series of shorter ribs and the margin of said opening, and checking ribs or baffles connecting adjacent ribs on each side of the longer ribs throughout the series.

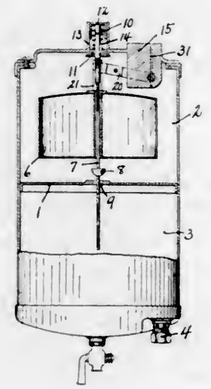
1,477,014. PROCESS OF PREPARING SULPHONIC ACIDS OF THE ARYLIDES OF 2.3-OXYNAPHTHOIC ACID. OTTO SOHST, Hochst-on-the-Main, Germany, assignor to Farbwerke vorm. Meister Lucius & Brüning, Hochst-on-the-Main, Germany, a Corporation of Germany. Filed May 13, 1922. Serial No. 560,748. 1 Claim. (Cl. 260—124.)

As new products, the sulphonic acids of the general formula:



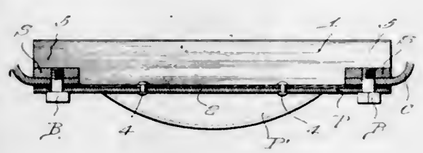
wherein R represents any aryl residue which may be once or several times substituted by a methyl-, chlorine-, nitro-, alkyloxy- or any other group and wherein the sulfo group is contained in the β-oxynaphthoic acid residue-, which sulphonic acids can be obtained by treating the arylides of 2.3-oxynaphthoic acid with sulfuric acid and form, when dry, grey powders the solution of which in hot water generally solidifies into a transparent gelatinous mass, their alkali salts being readily soluble in water with a faint yellow colour.

1,477,015. LIQUID-FEEDING DEVICE. WILLIAM SPARKS, Jackson, Mich., assignor, by mesne assignments, to Stewart-Warner Speedometer Corporation, Richmond, Va., a Corporation of Virginia. Filed July 2, 1921. Serial No. 482,264. 10 Claims. (Cl. 158—36.)



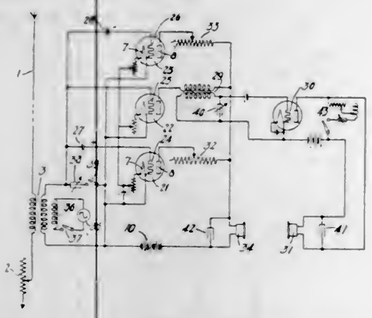
1. In a device of the class described, an upper chamber and a lower chamber, and means of communication between the said chambers, a valve controlling said communication, and suction-actuated means having a loose connection with said valve for holding the same to its seat.

1,477,016. OIL PAN FOR INTERNAL-COMBUSTION ENGINES. WILLIAM SPEARS, Golden, Colo. Filed June 12, 1922. Serial No. 567,840. 5 Claims. (Cl. 184—13.)



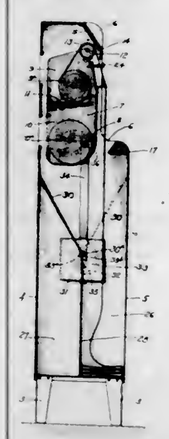
1. A crank case oil pan having oil pockets, and a baffle plate extending transversely of the oil pan between the oil pockets and having its lower end portion secured to the oil pan between the oil pockets, the end portions of said baffle being extended to overlie portions of a crank case at the sides of an opening closed by said oil pan and support the pan while fasteners for the pan are put in place.

1,477,017. CURRENT-CONTROLLING AND STATIC-REDUCING SYSTEM. CLARENCE A. SPRAGUE, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 2, 1919. Serial No. 294,328. 32 Claims. (Cl. 250—20.)



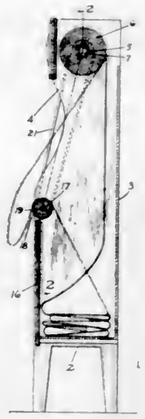
1. The method of reducing disturbing current which comprises transmitting portions of said current determined by the magnitude of said current, and attenuating said current portions to different degrees.

1,477,018. TOWEL CABINET. FRANK M. STEINER and WALTER S. GRAVES, Minneapolis, Minn., assignors to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah. Filed Sept. 5, 1922. Serial No. 586,220. 7 Claims. (Cl. 45—32.)



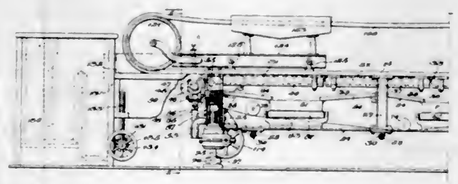
3. A towel cabinet comprising a casing having forward and rear soiled towel compartments in its lower portion and a partition between them, the upper portion of said casing having an opening for access to the clean towel, a towel carrier mounted in said casing in the rear of said opening and adapted to contain rolls of toweling one above the other, a feed roll in the upper portion of said carrier over which the clean towel is delivered to the user, a gap being provided between the lower portion of said carrier and the wall of said casing through which the soiled towel is directed to the compartments beneath and in which compartment the towel is delivered in horizontal folds, one upon the other, the soiled towel of one roll being directed to one towel compartment and the soiled towel of the other roll to the other compartment.

1,477,019. TOWEL CABINET. GEORGE A. STEINER, Salt Lake City, Utah, assignor, by mesne assignments, to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah. Filed Oct. 22, 1921. Serial No. 509,580. 4 Claims. (Cl. 45—32.)



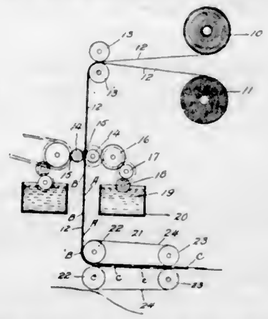
1. A towel cabinet comprising a casing, a shaft having bearings in the upper portion of said casing, the bearing at one end of said shaft having a sprocket wheel thereon, a soiled towel feed roll journaled in the bearings in said casing and provided with a sprocket, a drive chain connecting the sprocket of said shaft with said feed roll, a clean towel roll carried by said shaft to revolve therewith, said roll having a web thereon positioned and wrapped to bring the free web end to the rear of the casing closely adjacent the rear wall thereof, and an opening being provided between said clean towel roll and said feed roll for access to said loose end, and said feed roll turning inwardly and engaging the soiled portion of the towel and delivering it within said casing.

1,477,020. PAPER-MAKING MACHINE. JOHN W. VEDDER and FREDERICK W. LODDING, Worcester, Mass., assignors to Rice, Barton & Fales Machine & Iron Co., Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 29, 1921. Serial No. 511,340. 26 Claims. (Cl. 92—45.)



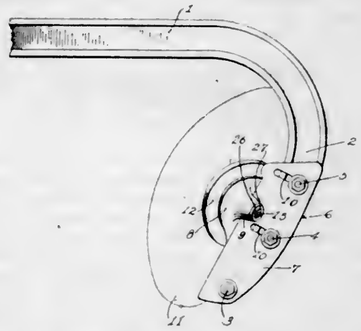
1. In a paper making machine, a Fourdrinier wire, a frame carrying suitable rollers including a breast-roll on which said wire runs, means supporting said frame whereby its position may be altered to change the pitch or inclination of the wire, means supporting said breast-roll from said frame so that said roll may have endwise shaking movement relative to said frame, and means imparting endwise shaking movement to said breast-roll relative to said frame and thereby shaking the wire with said roll.

1,477,021. METHOD OF AND APPARATUS FOR SEVERING SHEETS FROM A WEB. COURTNEY P. WINTER, New Brunswick, N. J. Filed Jan. 3, 1922. Serial No. 526,814. 4 Claims. (Cl. 270—58.)



1. In an arrangement of the class described, means for alternately moistening a double web on opposite sides thereof and means for tensioning said web to separate the same into sheets, said separation occurring along said predetermined lines of weakness.

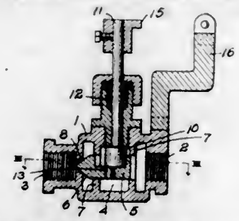
1,477,022. PLOW. JOHN C. WOOD, Alexandria, Mo. Filed Nov. 3, 1921. Serial No. 512,526. 3 Claims. (Cl. 97—53.)



1. In a device of the class described, a plow beam including a depending standard, a bracket comprising a body abutting against the side of the standard, a flange extending from the body of the bracket laterally with respect to the standard, means for mounting the body pivotally on the standard for adjustment in a direction parallel to the line of advance, means arranged transversely of the body of the bracket for securing the body in adjusted position on the standard, and a disk mounted on the flange.

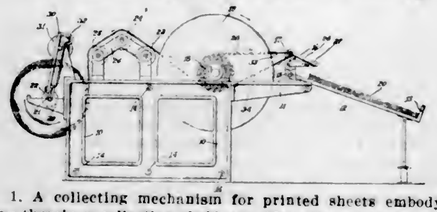
1,477,023. VALVE. JAMES B. ANDERSON, Shaler Township, Allegheny County, Pa., assignor to The Peoples Natural Gas Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 30, 1921. Serial No. 456,798. 3 Claims. (Cl. 251—40.)

2. In a valve structure the combination of a chamber with an orifice in its wall, a valve adapted to be shifted in right-line movement toward and from said orifice, the body of said valve being provided with a lateral recess, a rotatable stem extending transversely of the direction of valve movement into said recess in the valve body, connection between stem and valve eccentric with relation to the axis of stem rotation, the parts being so proportioned and arranged that abutment of the body of the moving valve against the body of the rotating stem limits



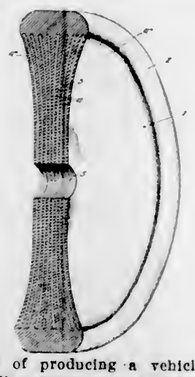
the movement of the valve both in its opening and in its closing movements.

1,477,024. COLLECTING MECHANISM FOR PRINTED SHEETS. PETER AITCHISON, New Rochelle, N. Y., assignor to American Bank Note Company, New York, N. Y., a Corporation of New York. Filed Aug. 10, 1921. Serial No. 491,149. 8 Claims. (Cl. 101—417.)



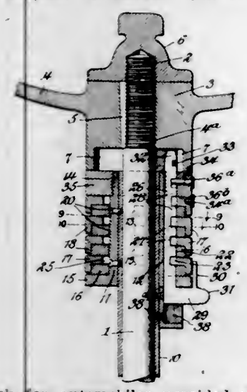
1. A collecting mechanism for printed sheets embodying therein a collecting shelf, a guide roller adjacent and above said shelf about which a strip or web is adapted to pass, whereby printed sheets will be delivered directly from said strip or web to said shelf, bearings for a roll of continuous strip or web having printed sheets wound therein, a rewind reel adapted to receive said strip or web after the printed sheets have passed therefrom and been stacked or piled upon the shelf, and means intermediate said bearings and said rewind reel whereby the lower reach of the strip or web, in its passage through the machine, is caused to engage the undersurface of the roll of continuous strip.

1,477,025. METHOD OF PRODUCING VEHICLE WHEELS. HARRY N. ATWOOD, Boston, Mass., assignor to Rubwood, Inc., Lawrence, Mass., a Corporation of Massachusetts. Original application filed Nov. 21, 1921, Serial No. 516,766. Divided and this application filed Nov. 29, 1922. Serial No. 604,074. 4 Claims. (Cl. 18—56.)



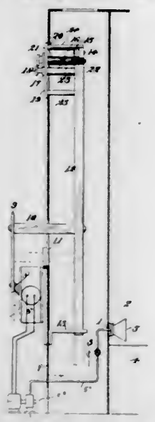
1. The method of producing a vehicle wheel which comprises assembling veneer plies and intervening bonding plies of rubber, building up a tread of rubber stock about the periphery of the assemblage, and subjecting the whole to a process of vulcanization.

1,477,026. LOCK FOR AUTOMOBILES. GILBERT LINCOLN BAKER, Oakdale, Calif. Filed Jan. 31, 1921. Serial No. 441,304. 5 Claims. (Cl. 70—129.)



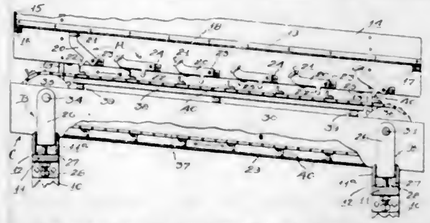
1. In a lock for automobiles provided with a steering post or spindle and a steering wheel carried by and secured to the steering post, a lock structure mounted on the steering column and associated with the steering post and wheel for securing them to and releasing them from a fixed part of the steering assembly, said lock structure comprising a core surrounding and concentric with the steering post and fast to a fixed part of the structure and also provided with a longitudinal groove or seat and oppositely disposed longitudinal series of spaced lugs and having an outstanding flange at one end and a threaded extension at the other end, a series of alternately arranged rings and rotatable tumblers in coactive relation and surrounding the core, with the rings engaged and held against rotation by the spaced lugs on the core and the tumblers being rotatable about the core in the spaces between the lugs, a slidable lock bolt traversing the tumblers and rings lengthwise of the core and provided with a longitudinal series of spaced lugs engaging and anchoring the rings, with the spaces between the lugs traversed by the tumblers, and the steering wheel having keepers for holding the lock bolt when moved thereinto.

1,477,027. SAFETY MECHANISM FOR FURNACES. GEORGE N. BLANCHARD, San Francisco, Calif., assignor to Colmar Burner Company, San Francisco, Calif., a Corporation of California. Filed Dec. 13, 1922. Serial No. 606,706. 2 Claims. (Cl. 126—99.)



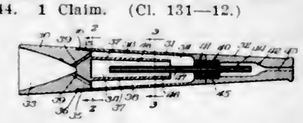
1. In combination with a hot air duct, an electric switch, mechanism for operating said switch, a horizontally disposed support projecting into the said duct through its wall, and a fusible member removably positioned within and projecting into said duct beyond the inner end of said support for supporting and retaining said mechanism in inoperative position, said member adapted to fuse on the temperature in said duct attaining a predetermined degree for releasing said mechanism.

1,477,028. GRAIN-CLEANING MACHINE. FRANK C. BLODGETT, Minneapolis, Minn., assignor of one-half to Frank J. Seidl, Minneapolis, Minn. Filed Feb. 16, 1922. Serial No. 537,086. 7 Claims. (Cl. 130—15.)



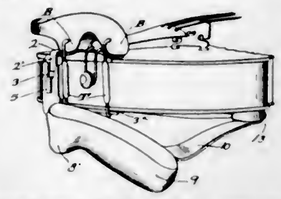
4. In a machine of the class described, a main frame, a screen on said frame, tappets beneath the screen arranged to strike the under side thereof, a hopper and rotors beneath said screen, an endless tappet actuator mounted on said rotors, and means for driving the actuator, the upper reach of said actuator serving to operate the tappets, and the lower reach thereof to eject screenings from the hopper.

1,477,029. SMOKING PIPE. ALBERT G. BLOMSTER, San Diego, Calif. Filed Mar. 1, 1920. Serial No. 362,444. 1 Claim. (Cl. 131—12.)



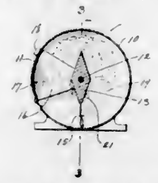
A device of the type described comprising a member adapted to hold a cigar or cigarette and having a diagonally extending flue, said member also having a tubular extension, a stem having one end secured to said member and having a reservoir in which said tubular extension projects, thus providing an annular smoke passage with which said diagonally extending flue communicates, a mouthpiece having a central bore enlarged into a reservoir and being provided with a nipple adapted for screwing into a threaded end of said stem, and a tube extending through said nipple and having one end projecting within said tubular extension and spaced therefrom to provide an inner annular smoke passage in said first named reservoir, said tube having its other end projecting within said second named reservoir.

1,477,030. VIOLIN SUPPORT. GURNEY E. BOYD, Pasadena, Calif. Filed Apr. 18, 1922. Serial No. 555,127. 4 Claims. (Cl. 84—278.)



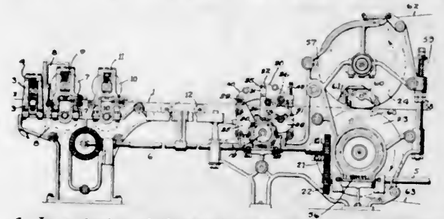
1. An attachment for a violin, comprising an approximately oblong pad member having a portion deflected sharply to hook over the upper portion of the collar bone of the player, and means for securing the pad to the base of a violin, whereby the violin may be supported in position when released from the hands of the player and held by the chin, said means including a clamp structure to be attached to the base of the violin and a slotted carrying arm attached to the clamp structure and a fastening in said slot by which the pad is secured.

1,477,031. AUTOMOBILE ROBE HOLDER. GEORGE CANNING, Los Angeles, Calif. Filed Nov. 29, 1922. Serial No. 603,966. 5 Claims. (Cl. 296—77.)



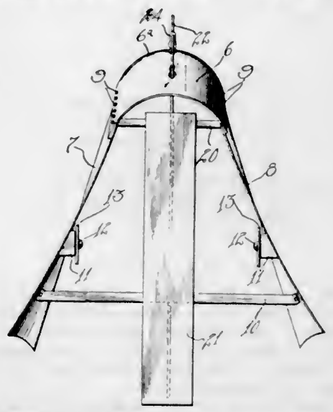
2. A robe holder for automobiles comprising a casing approximately circular in cross section, a spring actuated roller mounted within the casing, the roller being approximately diamond-shaped in cross section, hooks pivoted along one edge of the roller, the casing having a longitudinally extending opening, and a robe detachably engaged by said hooks.

1,477,032. MOUNTING MACHINE. WILLIS M. CARTER, Hoboken, N. J., assignor to The W. F. Powers Company, a Corporation of New York. Filed July 8, 1922. Serial No. 573,707. 19 Claims. (Cl. 216—9.)



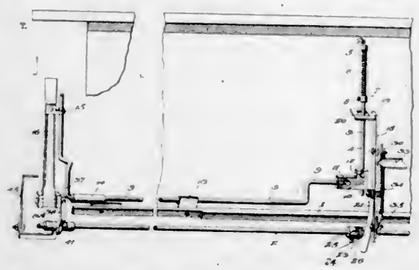
1. In a device of the kind described, a board handling means comprising a base, a frame pivotally secured thereto, a feeding roll fixedly secured to said frame and movable therewith, paper mounting means, and board arresting means synchronized with said paper mounting means.

1,477,033. IRRIGATION DITCHER. ROBERT C. CHATTIN, Mountain Home, Idaho. Filed Nov. 27, 1922. Serial No. 603,688. 2 Claims. (Cl. 37—98.)



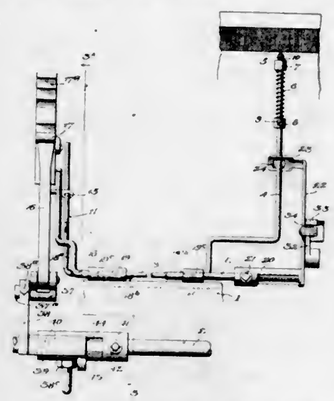
1. A ditcher comprising an arc-shaped nose having a rounded bottom, curved wings secured to said nose and extending outwardly and rearwardly, a guide member hinged to the nose in the rear concave portion thereof, a cross member secured to the upper edges of the wings near the point at which the wings are connected to the nose, a second cross member secured to said wings near their upper edges and at a point near their rear ends, a plank secured to said cross members centrally with respect to the longitudinal axis of the device, said plank extending rearwardly of the device to form a seat, and means rigidly connected to said plank for adjustably spacing said cross member from said plank.

1,477,034. THIN-PLACE DETECTOR. WILLIAM F. CLAYTON, Huntsville, Ala., assignor of one-third to Robert E. Smith, Huntsville, Ala. Filed May 23, 1921. Serial No. 471,892. 13 Claims. (Cl. 139—225.)



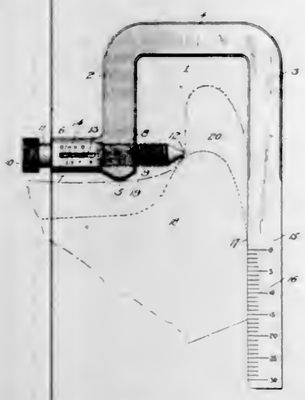
1. In a loom having automatic filling-replenishing mechanism normally operated by the usual filling fork, a thin place detector comprising a finger resting on the cloth a definite distance from the fell, a let-back device for letting back the cloth a corresponding definite distance, and mechanism connected to the finger for initiating the functioning of the let-back device to let back the cloth the corresponding definite distance.

1,477,035. THIN-PLACE DETECTOR. WILLIAM F. CLAYTON, Huntsville, Ala., assignor of one-third to Robert E. Smith, Huntsville, Ala. Filed Feb. 7, 1922. Serial No. 534,803. 10 Claims. (Cl. 139—348.)



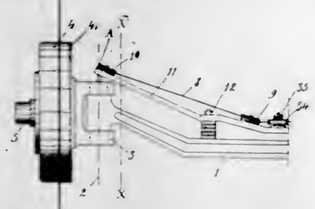
1. In a loom, a moving member, a thin place detector comprising a finger normally resting on the cloth adjacent to the fell, a pawl, and connections between the finger and pawl holding the pawl in inoperative position while the finger rests on the cloth and allowing the pawl to engage the moving part when the finger drops, a finger raiser having a portion in the path of the pawl and a portion over the cloth, and means rigidly connecting said portions and a lost motion connection between the portion over the cloth and the finger.

1,477,036. SERVICE-METAL WHEEL GAUGE. BERNARD COOK, Roanoke, Va. Filed May 6, 1921. Serial No. 467,330. 10 Claims. (Cl. 33—203.)



1. A gauge comprising a pair of connected members, one of which is provided with a projection having a bearing surface adapted to contact the lowest portion of the tread of a flanged wheel, a micrometer screw gauge provided on said arm and having a portion adapted to be moved against the inner face of the flange of said wheel when the aforesaid projection is positioned in the lowest portion of the tread, and the other of said members being provided with a scale adapted to lie against the outer face of the flange of the wheel and cooperate with the micrometer gauge for computing a result incident to the readings.

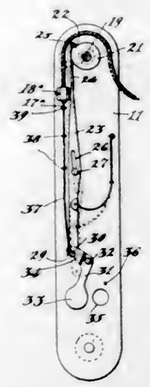
1,477,037. BRAKE CONTROL FOR FRONT WHEELS OF MOTOR VEHICLES. JOSEPH COLLA, Issoire, France. Filed Sept. 11, 1922. Serial No. 587,515. 3 Claims. (Cl. 188—194.)



2. The combination with the front axle of an automobile having a steering wheel journal pivotally connected thereto carrying a braking drum, braking mechanism adapted to cooperate with said drum having a rotatable operating rod, of a cross-piece secured to said axle and having a free end, a pulley mounted upon said free end of the cross-piece, and a cable extending over said pulley and connected to said rotatable operating rod.

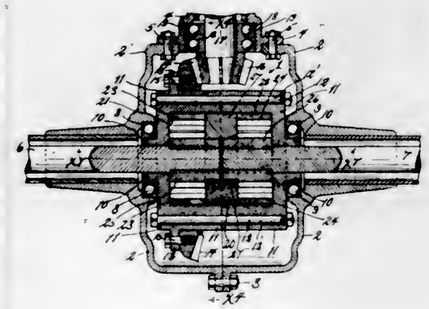
1,477,038. CAMERA. ARTHUR B. CUBBAGE, Los Angeles, Calif., and HERMAN MILLMAN, New York, N. Y. Filed June 9, 1921. Serial No. 476,273. 4 Claims. (Cl. 95—31.)

1. In a camera, a shutter-actuating device, a film-winding roller, a casing enclosing said roller having a sight opening, an arm pivoted to swing to and from a position opposite said sight opening, means operated by said shutter-actuating device for swinging said arm to a position opposite the sight opening, a slidable plate, means on said plate engageable with said lever, and means for detachably connecting said plate to said film



roller whereby said plate may be moved on turning the roller to thereby move said lever to a position away from the sight opening.

1,477,039. DIRECT-DRIVE DIFFERENTIAL. ARTHUR C. CULVER, Pasadena, Calif. Filed Apr. 30, 1923. Serial No. 635,669. 6 Claims. (Cl. 74—99.)

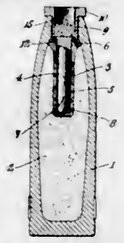


1. The combination with two axles; of a differential carrier concentric to said axles; two co-axial floating internal gears journaled to said carrier eccentrically thereof and encircling the axis of the carrier; pinions fixed on the axles respectively and meshing respectively with said floating internal gears; two planetary pinions journaled to the carrier and meshing with each other, one of said planetary pinions meshing with one of said internal gears and the other planetary pinion meshing with the other internal gear.

1,477,040. APPARATUS FOR FILLING CONTAINERS WITH EXPLOSIVES. THOMAS MALCOLM DAVIDSON, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed July 31, 1918. Serial No. 247,546. 10 Claims. (Cl. 86—20.)

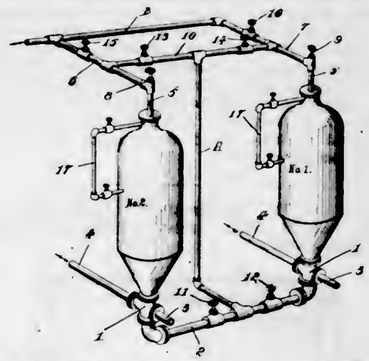
6. A former designed to feel molten explosives through the base opening of a shell, said former comprising a depending extension, a cup-shaped portion for reception in said base opening and having its internal diameter

approximating that of said opening, a sharp edged opening for feeding the explosive from the cup-shaped por-



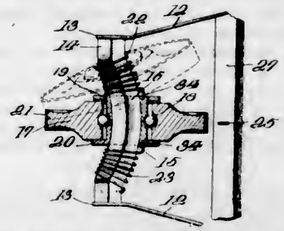
tion around the extension, said cup-shaped portion having a shoulder in which the opening is located, and a hole at the upper edge for the insertion of a hand lever.

1,477,041. RECOVERY APPARATUS. LEMUEL B. DECKER, Kenogami, Quebec, Canada. Filed Aug. 21, 1922. Serial No. 583,409. 2 Claims. (Cl. 92—2.)



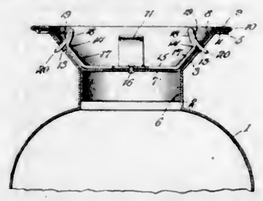
1. A recovery apparatus comprising a pair of digesters, a cross pipe placing said digesters in communication, means for supplying acid to said digesters, an outlet pipe fitted with each digester, an acid lead-off pipe, branches, connecting said pipe with each of the outlets, a cross pipe connecting said pipe with each of the outlets, a cross pipe connecting said branches, a by-pass connecting the intermediate portions of the cross pipes, and valves arranged in said cross pipes, at opposite sides of the by-pass and in the outlets.

1,477,042. ANTISKIDDING DEVICE. NOBLE C. DOSS, Atlanta, Ga. Filed Apr. 5, 1922. Serial No. 549,719. 4 Claims. (Cl. 188—5.)



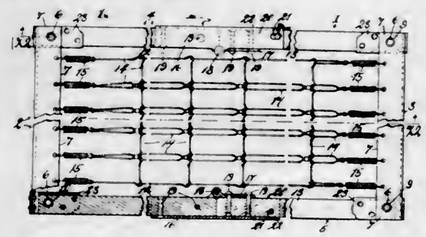
1. An anti-skidding device comprising, in combination, a frame adapted to be pivotally secured to the rear portion of a vehicle, a wheel carried by said frame adapted to contact with the pavement, means whereby said wheel may be controlled to move to a position with its plane at an angle to the forward direction of movement of the vehicle and out of perpendicular to the road surface when skidding begins.

1,477,043. LID FASTENER FOR MILK CANS. LEMUEL E. DRAKE, Modesto, Calif. Filed Feb. 28, 1923. Serial No. 621,832. 2 Claims. (Cl. 31—78.)



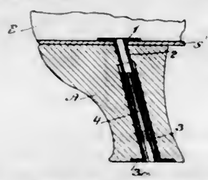
1. The combination with a milk can having a flaring mouth provided with opposite openings therethrough, and a lid adapted to fit therein and having openings registering with the first-named openings, of a fastener comprising a bar centrally pivoted on the upper surface of the lid, said bar having upwardly and outwardly extending, compressible end portions having upstanding projections forming handles to force the ends towards each other, the terminals of the bar extending downwardly and outwardly from the handles and adapted to spring into the aforesaid registering openings to lock the lid in the mouth of the can.

1,477,044. COLLAPSIBLE CAMP BED. JACOB V. DYER, Bell, Calif. Filed June 25, 1921. Serial No. 480,278. 5 Claims. (Cl. 5—114.)



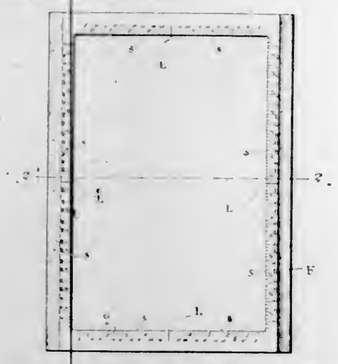
1. In a collapsible bed having pairs of end and side frame members and a spring bed bottom having its opposite ends connected to the end pair of said frame members; detachable legs forming a pivotal connection between the ends of the pairs of end and side frame members; and hinges interposed in the pair of side frame members; said hinges being arranged to extend said side members and clamp the legs in place when the end and side frame members are pivotally connected and when said hinges are moved toward one another.

1,477,045. DEVICE FOR SECURING THE HEELS OF SHOES OR BOOTS. HANS ELLENSOHN, Vienna, Austria. Filed May 12, 1923. Serial No. 638,618. 9 Claims. (Cl. 36—34.)



1. A device for securing the heels of shoes or boots, comprising in combination an outer tube provided with a plate on one of its ends, an inner tube furnished with a plate on one of its ends, the said tubes being adapted to slide over one another with a tight fit, and a pin adapted to be driven into the said inner tube to press the latter against the outer tube in such a manner that a disengagement of the connection between the said tubes and pin is rendered very difficult.

1,477,046. PRINTER'S CHASE. ALBERT C. EVANS, Butte, Mont. Filed Mar. 24, 1922. Serial No. 546,389. 3 Claims. (Cl. 101—391.)

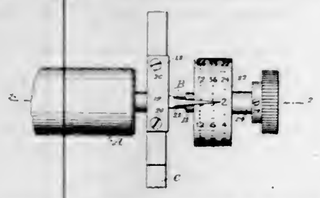


1. A printer's chase comprising rigidly connected together pairs of spaced parallel longitudinal members and spaced parallel transverse members at the ends of the longitudinal members and having a printer's scale extending on one longitudinal member adjacent to an inner edge thereof and having a printer's scale extending on the corresponding face of a transverse member of the chase adjacent to the inner edge of the transverse member, each of said printer's scales comprising pica markings increasing progressively in denomination from ends of the chase member on which provided to the transverse median line thereof, whereby the positions of type forms of various sizes when in centered relation to the chase and the number of picas of furniture required to secure the type forms in centered relation to the chase may be accurately determined.

1,477,047. PROCESS OF MAKING HALOLEFINES. HARRY ESSEX and ALGER L. WARD, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 14, 1919. Serial No. 330,651. 5 Claims. (Cl. 260—162.)

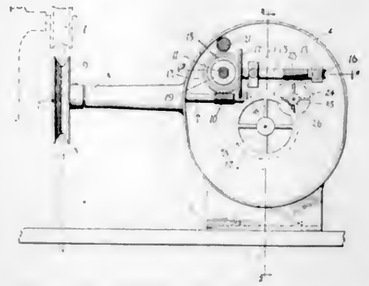
2. The process of making allyl chloride which comprises passing vapors of propylene chloride over calcium chloride maintained at a temperature between 200 and 400° C.

1,477,048. ATTACHMENT FOR TYPEWRITERS. FRED EDWARD FANGER, Mexico, Mexico. Filed Apr. 2, 1920. Serial No. 370,749. 2 Claims. (Cl. 197—119.)



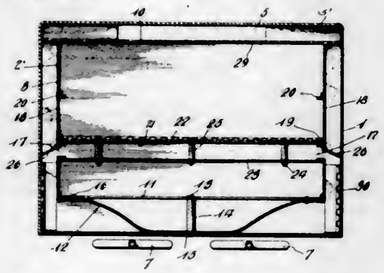
1. A typewriter attachment including a support adapted to be secured to a fixed part of a typewriter adjacent to the axle of the platen roller, an axle extension adapted to be secured to the axle of the typewriter, a pointer on said support, an indicator element revoluble relatively to said pointer and coaxial with said extension, a driven gear element on said revoluble indicating element, a drive element fixed on said axle extension, and a driving connection between said drive and driven element and carried by said support, said revoluble indicating element being optionally turnable independently of said drive element.

1,477,049. YARD METER FOR HEMSTITCHING MACHINES. LEE N. FAUBION, Fairbury, Nebr. Filed Feb. 11, 1922. Serial No. 535,750. 1 Claim. (Cl. 33—134.)



The combination with a hemstitching machine, of an indicating mechanism adapted to be attached to said hemstitching machine to indicate the linear measurement of work passing through said machine, said mechanism comprising a dial having legends representing units of linear measurement, an indicating hand for said dial, a spindle adapted to be driven by said hemstitching machine, a variable speed transmission connected between said spindle and said band, and means for manually operating said variable speed transmission calibrated in stitches per linear unit.

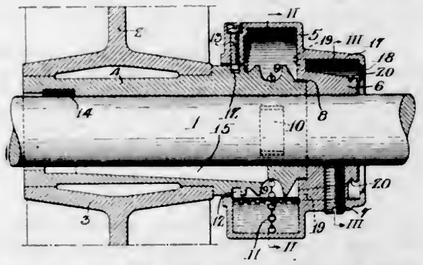
1,477,050. OVEN. GEORGE MILTON FAULK, Ruston, La. Filed Aug. 18, 1922. Serial No. 582,755. 4 Claims. (Cl. 126—275.)



1. An oven comprising a primary casing having an outlet port in its rear wall, a secondary casing therein having its side and top walls spaced from the adjacent walls of the first casing and its front wall open, the side walls of said secondary casing having upper and lower ports therein, a horizontally arranged partition and bottom supported in the secondary casing, said partition dividing the secondary casing into a pair of baking chambers and being arranged above the lower ports in said secondary casing, and dampers positioned between the opposite side walls of said primary and secondary casings for controlling the circulation of heated air through and by said lower ports in the secondary casing.

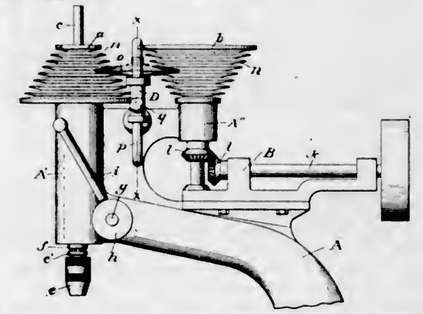
1,477,051. LUBRICATING MEANS FOR LOOSE PULLEYS, GEARS, ETC. HARALD F. GADE, Philadelphia, Pa., assignor to Standard Pressed Steel Co., Jenkintown, Pa., a Corporation of Pennsylvania. Filed Dec. 20, 1921. Serial No. 523,627. 18 Claims. (Cl. 64—29.)

9. In a lubricating device for loose pulleys, idlers, and the like, the combination with a shaft and a loose pulley, idler, or the like journaled on said shaft, of a bushing carried by said pulley and interposed between it and the shaft, a lubricant-receiving shell fixed to the shaft at one side of said pulley and movable with said shaft; said bushing projecting into said lubricant-receiving shell, lubricant-distributing means carried by the projecting portion of said bushing and dipping into a body of lubricant carried by said shell; said lubricant-distributing



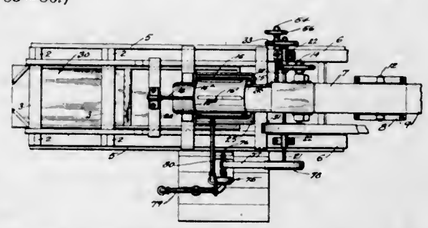
means encircling the bushing and movable with the latter, and means carried by the lubricant-receiving shell for collecting lubricant carried up by the lubricant-distributing means when said shell is at rest.

1,477,052. FRICTION GEARING. JAMES D. GIBBS, Louisville, Ky. Continuation of application filed Jan. 29, 1921, Serial No. 440,968. This application filed Sept. 14, 1922. Serial No. 588,264. 9 Claims. (Cl. 74—26.)



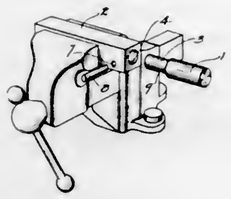
6. In power transmission mechanism a wheel having a narrow V-shaped groove the walls of which are disposed at an angle to each other of not over 25°, and a coacting beveled edged wheel the walls of which are positioned at a corresponding angle, and means for rotatably supporting said wheels with the beveled edge of the latter meshing with the groove in the former.

1,477,053. COMBINATION PLACER MACHINE. CHARLES R. GILBERT, Los Angeles, Calif., assignor of one-half to William J. Goth, Los Angeles, Calif. Filed Mar. 4, 1920. Serial No. 363,126. 2 Claims. (Cl. 83—86.)



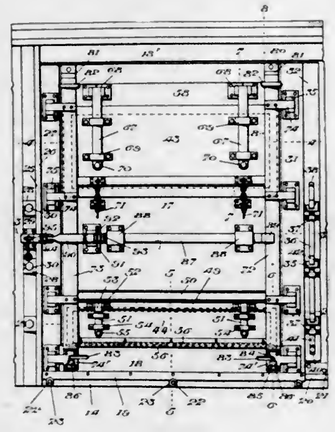
1. In a concentrating apparatus, a tank having a valved outlet, an open ended drum arranged for rotation in said tank, an inwardly projecting flange carried by one end of said drum and spaced apart therefrom to form a narrow opening to permit the discharge of relatively fine material from the interior of the drum, material delivering means extending into one end of said drum, and a discharge spout leading from the interior of said drum outwardly through the other end thereof.

1,477,054. MANDREL. NED EDGAR GOUGH, Seattle, Wash. Filed Sept. 21, 1921. Serial No. 502,224. 1 Claim. (Cl. 33—180.)



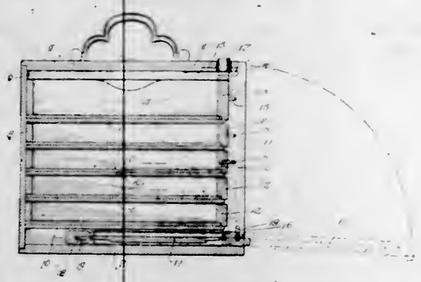
A device of the character described, comprising in combination, a supporting bar having plane and parallel opposite surfaces and having a socket at the end thereof and a transverse bore through the socket, a mandrel having a supporting shank extendable within the socket to support the mandrel coaxially alined with the bar, said shank having a notch therein adapted to register with the transverse bore of the supporting bar, and a locking pin applied removably within said bore to secure the mandrel functionally in position.

1,477,055. FREIGHT-CAR DOOR. JOHN L. GUERRANT, Sedalia, Mo. Filed May 23, 1921. Serial No. 471,888. 27 Claims. (Cl. 20—22.)



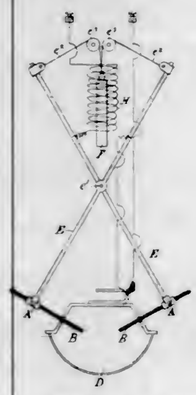
4. A freight car door having upper and lower openings, auxiliary doors for said openings, vertical bars carried by the car door to hold the auxiliary doors closed, a sliding latch bar carried by the car door to engage one of said vertical bars, an arm pivotally connected to the car door to extend across the other vertical bar and adapted to be secured tor holding the doors closed, and an operative connection between said latch bar and arm whereby they simultaneously engage and disengage the vertical bars.

1,477,056. CABINET FOR HOLDING GAMES. ALBERT R. HAGER, Shanghai, China, assignor to the Mah-Jong Company of China, San Francisco, Calif., a Copartnership consisting of Joseph Park Babcock, Anton N. Lethin, and Albert R. Hager. Filed May 25, 1922. Serial No. 563,701. 1 Claim. (Cl. 211—7.)



A cabinet having side members, back and top and base members, spaced partitions within said cabinet parallel to the base, the lowermost partition being spaced from the base member, a door for completely closing said cabinet pivotally and slidably secured thereto, said door being capable of movement between the lowermost partition and the base member, and drawers between said partitions and between the uppermost partition and the top member of the cabinet, means at the top of the cabinet engaging with a recess at the top of the door to hold the latter in its closed position, means extending through the top of the cabinet and operable to release said door-holding means and obliquely aligned pulls for said drawers.

1,477,057. ARC LAMP FOR PHOTOGRAPHIC AND OTHER PURPOSES. BENJAMIN JAMES HALL, Fieldend, Eastcote, and CARL FREDERIK GRIMUR THORKELIN, London, England. Filed Apr. 1, 1920. Serial No. 370,467. 1 Claim. (Cl. 176—65.)

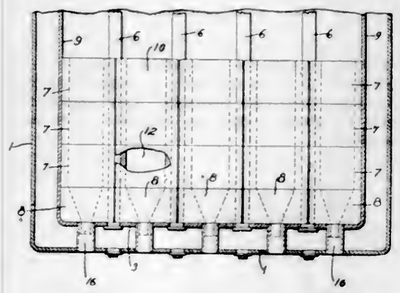


An arc lamp for photographic purposes, comprising a chamber having a translucent bottom and guide holes in its upper part, two arms supported pivotaly above the said chamber, carbons arranged at substantially an angle of 130 degrees, the upper parts of the carbons being pivoted to the lower parts of the said arms and the lower parts of the carbons being slidable in the said guide holes, a solenoid included in circuit with the carbons and provided with a slidable core, guide sheaves, and flexible connections passing over the guide sheaves and attached to the said arms and to the solenoid core so that the weight of the said core assists in moving the carbons apart.

1,477,058. PROCESS FOR THE PREPARATION OF CATALYTIC COMPOUNDS AND THE PRODUCT OBTAINED THEREBY. ARTHUR EARL HOULEHAN, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a Corporation of Delaware. Filed May 25, 1917. Serial No. 170,809. 7 Claims. (Cl. 260—161.)

1. The process of producing a catalytic compound which comprises mixing metallic aluminum with a liquid hydrocarbon, introducing dry hydrogen chloride, and stopping the reaction when a substantial proportion of the aluminum is combined with the hydrocarbon as evidenced by the formation of a liquid immiscible in further portions of said hydrocarbon.

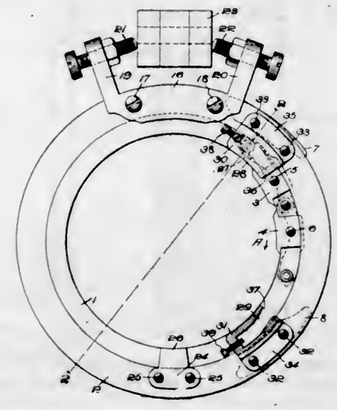
1,477,059. FIRE BOX. JAMES CHRISTIE JENKINS, Kayford, W. Va. Filed Aug. 30, 1920. Serial No. 406,832. 1 Claim. (Cl. 110—76.)



The combination with the forward and rear walls of a fire box, supports extended between the rear wall and the forward and inclined downwardly toward the forward wall, and the shell of a boiler; of a thimble mounted at its ends in the forward wall and in the shell and opening through the forward wall and the shell, alined forward and rear bricks resting directly upon the supports, the lower longitudinal edges of the bricks being cut away to receive the supports and to conform to the cross section thereof, each rear brick having a single longitudinal passage of large size compared with the cross section of the brick, but of such a size as to leave solid portions at each side of each rear brick, said solid portions being thicker than those portions of the bricks which lie between the passages of the bricks and the upper and lower surfaces of the bricks, and a forward brick against which the rear bricks thrust as they tend to slide down the supports, the forward brick abutting against the forward wall and having a reduced projecting neck received in the thimble the forward brick having a passage communicating with the passages of the rear bricks, and tapered from the rear end of the forward brick to the neck, the passage of the forward brick defining solid portions at the sides of the forward brick, said solid portions of the forward brick increasing in thickness from their rear ends thereby to bear the thrust transmited from said solid side portions of the rear bricks.

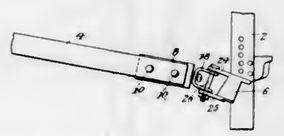
1,477,060. WEB-HOLDER CAM MECHANISM FOR KNITTING MACHINES. FRANK E. JONES, Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed Apr. 18, 1922. Serial No. 554,841. 15 Claims. (Cl. 66—26.)

1. In web holder cam mechanism for circular knitting machines, a pair of concentrically arranged rings, retracting cam means carried by one of said rings, advancing cam means carried by the other of said rings, said cam means being operable in both directions of



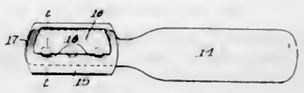
reciprocating knitting, and means automatically to shift the position of one of said cam means in each direction of reciprocating knitting.

1,477,061. SWIVELED TRACTOR PLOWHITCH. EARL V. KAUFFMAN, Cable, Ohio. Filed Nov. 18, 1921. Serial No. 516,108. 2 Claims. (Cl. 280—33.44.)



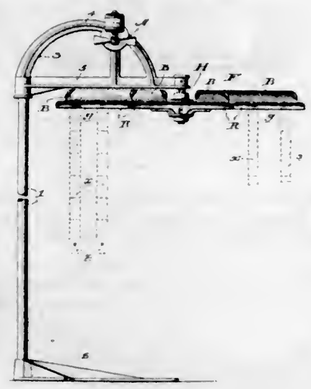
1. A swiveled plow hitch comprising a beam plate having a T-shaped head providing lateral bearing flanges, a clevis having an opening centrally in the base thereof whose walls flare outwardly toward each side of said base, a pin integral with and projecting forwardly from said T-shaped head, said pin passing loosely through said opening, said pin having a rounded head lying within the confines of said clevis and of greater area than that of said opening.

1,477,062. CUTTING DEVICE. PALMER KENNEDY, Tacoma, Wash. Filed Jan. 15, 1921. Serial No. 437,435. 6 Claims. (Cl. 30—25.)



5. A cutting instrument comprising a two-edged safety razor blade and a holder having a handle said holder having a face against which the blade may rest, the side edges of the holder and handle being parallel to the cutting edges of the blade, a resilient extension engaging the opposite face of the blade and forming a guard for one edge of the blade, the other edge of the blade overhanging the adjacent edge of the holder and one or more lugs on the extension to engage corresponding holes in the blade and prevent displacement thereof, substantially as set forth.

1,477,063. FILM-DRYING APPARATUS. SILAS KIND, Easton, Pa. Filed July 6, 1921. Serial No. 482,749. 10 Claims. (Cl. 34—26.)

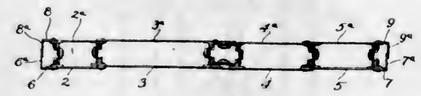


2. A drying device of the class described including a support; a drying frame, including a plurality of detachable film suspending elements, rotatably carried by said support; and an air blast generating device carried by said support at a position above the rotatable drying frame and discharging into and through said frame.

1,477,064. MANUFACTURE OF CORES FOR FOUNDRY WORK. EMIL KLEINSCHMIDT, Frankfort-on-the-Main, and CARL FOHR, Miesbach, Oberbayern, Germany. Filed Aug. 30, 1921. Serial No. 497,019. 3 Claims. (Cl. 22—188.)

1. Core material for foundry work containing in intimately mixed condition a binding agent comminuted to a substantially impalpable powder.

1,477,065. ADJUSTABLE AND INTERCHANGEABLE FORM FOR HOLLOW WALL CONSTRUCTION. IRA J. KUERT, Los Angeles, Calif. Filed Dec. 29, 1922. Serial No. 609,599. 6 Claims. (Cl. 25—131.)

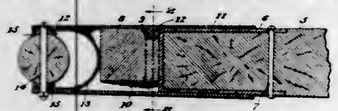


1. A unitary collapsible hollow wall form comprising, in combination, sectional side panels and inwardly and oppositely disposed end panels for respective side panels, toggle mechanism extending transversely between the side panels and attached thereto whereby the side panels may be erected in expanded form forming position and whereby the side panels may be contracted after the cast wall has set, the side panels each being formed of relatively edgewise movable portions whereby the side panels can be contracted longitudinally, and toggle means for longitudinally contracting the form.

1,477,066. SAFETY NECK YOKE. NATHANIEL P. LARSON, Eagle Bend, Minn. Filed Jan. 8, 1923. Serial No. 611,343. 2 Claims. (Cl. 278—124.)

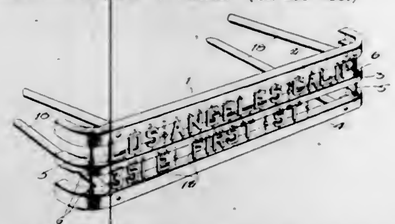
1. The combination with an animal draft pole provided with a flat face at one end, a thimble also having a flat face to coincide with the flat face of the pole and

received on the latter, an extension carried by the thimble and provided with a circumferential groove, a sleeve receivable on the thimble, and an internally arranged lug



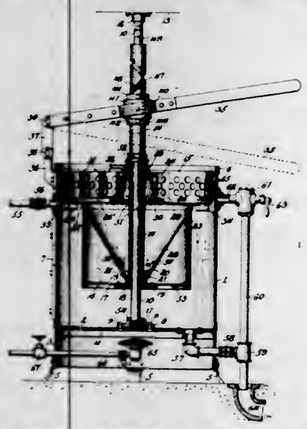
carried thereby adapted to be received in the groove upon arranging the sleeve in a position to dispose the lug coincident to the cut away surface and rotating the sleeve.

1,477,067. BUMPER FOR VEHICLES. JASPER CHRISTIANS LAWSON, Los Angeles, Calif. Filed May 7, 1923. Serial No. 637,803. 6 Claims. (Cl. 293—55.)



1. A bumper comprising a plurality of similar bars adjustably held in spaced parallel relation, adjacent bars having their confronting sides adapted for engagement with the opposite ends of characters consisting of letters or the like.

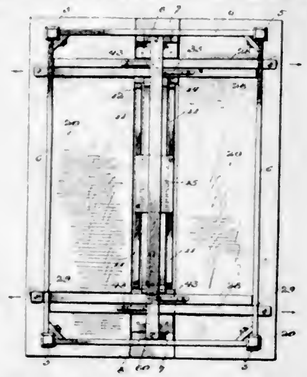
1,477,068. DISHWASHING MACHINE. DOUGLAS PLEASANT MAGANN, Roanoke, Va., assignor of one-half to David E. Argenbright, Roanoke, Va. Filed Apr. 13, 1921. Serial No. 461,173. 24 Claims. (Cl. 141—9.)



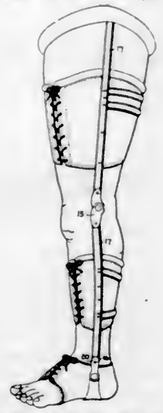
1. In a dish washing machine, a dish container, buoyant means for supporting the dish container, and means for imparting motion to the dish container.

1,477,069. EXTENSION TABLE. HANS MAHNCKE, Colorado Springs, Colo., assignor to The Wood Products Company, a Corporation of Colorado. Filed Apr. 1, 1922. Serial No. 548,572. 6 Claims. (Cl. 45—9.)

1. A table comprising cross bars, a stationary strip permanently secured to said cross bars and having its longitudinal edge portions cut away to define shoulders, a movable top having its under side provided with parallel guide strips received in said cut-away portions, the ends of said guide strips being adapted to engage said shoulders whereby to hold the top against endwise movement, and a cross plate secured to said guide strips and adapted to contact with the under side of said stationary strip.

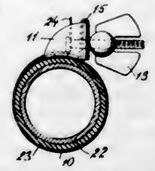


1,477,070. ORTHOPEDIC APPLIANCE. CHRISTIAN HUBERT MARTIN, Atlanta, Ga. Filed Mar. 28, 1922. Serial No. 547,536. 5 Claims. (Cl. 128—88.)



1. In an orthopedic appliance, the combination of a joint member and a brace bar, said joint member being slotted at one end in a longitudinal direction to receive one end of the brace bar which is inserted in and fills the slot of the joint member, and means uniting the bar to the member, said bar being of uniform cross section throughout its length.

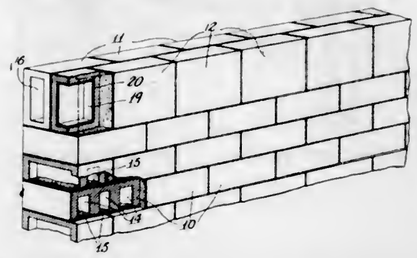
1,477,071. HOSE CLAMP. BERNARD MORGAN, Keene, N. H. Filed Aug. 8, 1922. Serial No. 580,390. 4 Claims. (Cl. 24—19.)



1. A hose clamp comprising the combination of a sheet metal strip bent to circular form, a bolt passing through a perforation in one end of the strip and through a brace

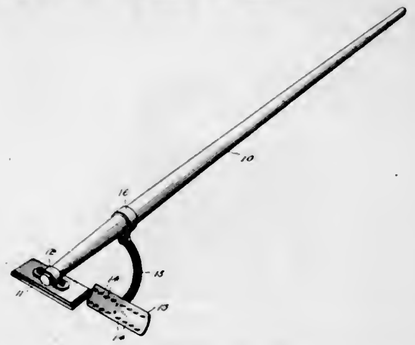
member secured to the opposite end of the strip by means of a compressed loop formed in the strip and inserted through the brace member and bent around a portion thereof, said brace member being so positioned as to convert a portion of the tangential clamping force of the bolt into radial pressure exerted against the surface of the hose through the guard piece.

1,477,072. BUILDING BLOCK. RICHARD MURRAY, New York, N. Y. Filed Apr. 25, 1922. Serial No. 556,491. 4 Claims. (Cl. 72—41.)



1. A building wall and foundation construction of the class described comprising foundation blocks of predetermined form and having chambers opening through one face thereof, said blocks being placed one upon another and side by side with the chambers thereof directed downwardly, and wall blocks mounted upon said foundation blocks, and the wall blocks at the inner side of the wall having inter-communicating air spaces.

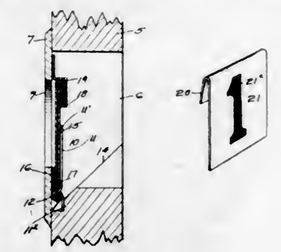
1,477,073. BAG-HANDLING IMPLEMENT. LEWIS C. PAINE, Charleston, S. C. Filed June 26, 1922. Serial No. 570,892. 2 Claims. (Cl. 294—1.)



1. In a bag handling implement, the combination of a handle, a fulcrum piece mounted adjacent one end of the handle, and a bag engaging member carried by the handle, and disconnected from the fulcrum piece said member comprising an arm pivoted at one end to the handle and provided at its opposite end with a gripping plate adapted to engage the side of a bag, there being a plurality of gripping projections carried by said gripping plate.

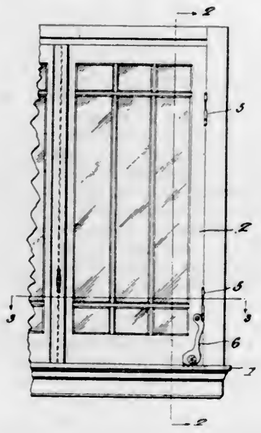
1,477,074. COMBINED NUMBER PLATE AND LETTER CHUTE. JESSE L. PECK, Pittston, Pa. Filed Apr. 30, 1923. Serial No. 635,798. 4 Claims. (Cl. 40—142.)

1. A device of the character described comprising a slotted element constituting a letter chute, a door hingedly connected thereto along its lower edge, said door being formed of sheet metal and being stamped to provide upper and lower channel portions and number plates adapted to



have their lower edges engaged in the lower of said slots and having downturned hooked portions at their upper ends adapted to engage the upper of said slots.

1,477,075. OPERATING AND LOCKING MEANS FOR DOORS AND WINDOWS. HARRY C. PHILLIPS, Mount Vernon, N. Y. Filed Aug. 24, 1922. Serial No. 584,007. 3 Claims. (Cl. 16—160.)

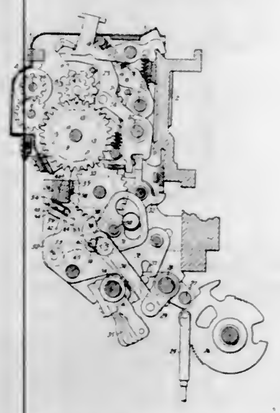


1. The combination of an open frame having an inner sill, a swinging leaf hinged on the side of the frame with vertical play in the hinges to permit the leaf when closed to drop outside the sill, a sill plate, and a cam lever pivoted at the bottom of said leaf substantially beneath one hinge, said lever having cam faces adapted to rest and travel upon the sill respectively, and a head adapted to engage said hinge with means to lock the sash against vertical movement when the parts are so engaged.

1,477,076. PROCESS FOR SEPARATING ORGANIC ACIDS FROM AQUEOUS SOLUTIONS THEREOF. EMIL PIRON, New York, N. Y., assignor to Piron Coal Distillation Systems, Inc., New York, N. Y., a Corporation of Delaware. Filed Oct. 31, 1922. Serial No. 598,211. 11 Claims. (Cl. 260—122.)

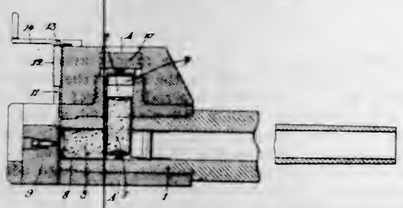
6. A method of concentrating dilute aqueous solutions of volatile organic acids which comprises adding approximately 10% of butyric acid, based on the weight of the volatile acid present in solution, and a small percentage of cresol, and distilling, and during distillation, adding toluol to the still in sufficient quantity to approximately equal the weight of the aqueous part of the distillate.

1,477,077. CALCULATING MACHINE. ARTHUR F. POOLE, Pelham Manor, N. Y., assignor to Remington Accounting Machine Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 31, 1922. Serial No. 585,445. 18 Claims. (Cl. 235—59.)



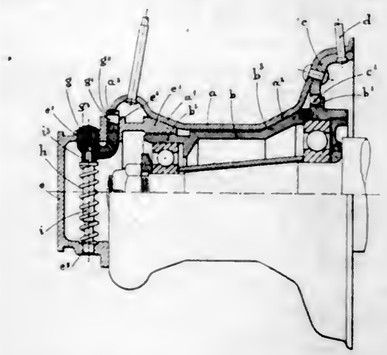
1. In a calculating machine, the combination with key operated actuating mechanism in which a master gear wheel is included, a carrying gear train wholly supported in a totalizer and including wheels which the master wheel engages successively, and means whereby a relative stepping movement of the master wheel and gear train is produced after a key is depressed, of wheel aligning means which is supported in the framework of the actuating mechanism and connected to a part of that mechanism and includes wheel engaging portions which, when they are in their normal positions, stand in alignment with interdental spaces of wheels of said gear train, movement from their normal positions being produced by depression of a key and movement to their normal positions being produced by return to normal position of said part of the actuating mechanism at the end of the key stroke.

1,477,078. CANNON WITH MULTIPLE POWDER CHAMBERS. EMILE RIMAILHO, Paris, France. Filed Feb. 17, 1922. Serial No. 537,285. 6 Claims. (Cl. 89—1.)



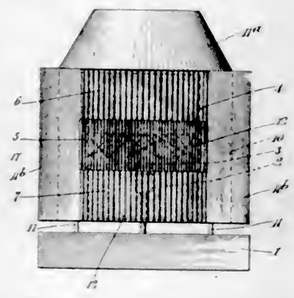
6. In a cannon adapted for firing with variable charges, the combination of a normal powder chamber corresponding to reduced charges, one or more additional chambers communicating therewith, breech-blocks serving to close each of the said chambers respectively, a firing device mounted in the breech-block of the normal chamber, an arm disposed upon the breech-block of the normal chamber for preventing the opening of the breech-blocks of the additional chamber as long as the breech-block of the normal chamber remains open, elements controlled by the opening movement of the said breech-blocks of the additional chambers and coming into contact with the said arm as long as the said breech-blocks remain open, and inert plugs adapted to replace the charges in the said additional chambers.

1,477,079. DETACHABLE WHEEL. LOUIS ROUANET, Ivry Port, France, assignor to Compagnie D'Applications Mecaniques, Ivry Port, Seine, France. Filed Dec. 10, 1919. Serial No. 343,755. 2 Claims. (Cl. 301—9.)



1. A detachable wheel construction comprising in combination a false hub, a wheel hub, a nut screwed upon the false hub and adapted to securely hold the wheel hub on the false hub, locking teeth provided on the wheel hub, a spring controlled rod carried in the nut and a locking bolt detachably mounted on said rod and adapted to engage into said locking teeth, the locking bolt being adapted to protrude in its operative position through the wall of the nut and the rod being so mounted in the nut that it may be swung out of the way of the locking bolt.

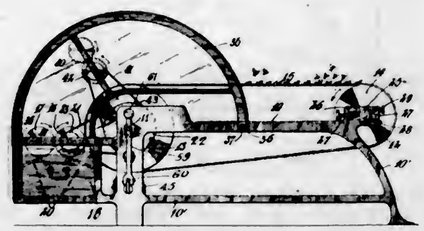
1,477,080. MOVABLE DESIGN. CHARLES W. SAALBURG, New York, N. Y. assignor to Animated Picture Products Company, New York, N. Y., a Corporation of Delaware. Filed June 3, 1919. Serial No. 301,545. 1 Claim. (Cl. 40—40.)



An apparatus for advertising designs comprising a window formed of transparent hollow pipes adapted to be filled with liquids, an inner rotatable device bearing designs which are intended to be advertised, and a lamp within the device whereby the illuminated design may be seen through the window with the effect of local rotations within the pipes.

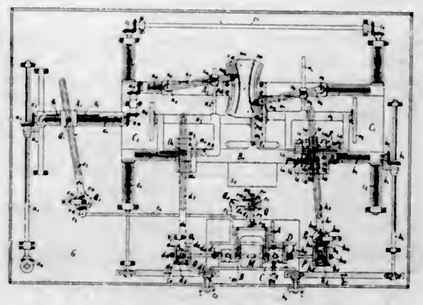
1,477,081. FLYCATCHER. JOSÉ R. SALINAS, Monterrey, Mexico. Filed Oct. 17, 1922. Serial No. 595,158. 4 Claims. (Cl. 43—11.)

1. A fly-catching device comprising a casing, a pair of drums journaled therein, an endless apron looped over said drums, a pair of rollers contacting with one another, one of said rollers contacting with said apron, scrapers



engaging said rollers, and means for advancing said apron and rotating said rollers.

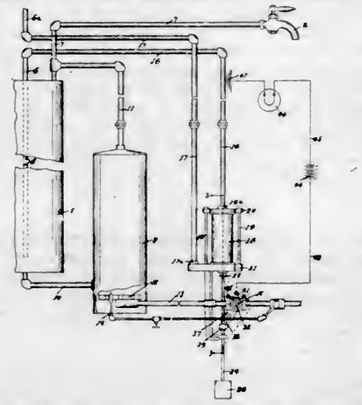
1,477,082. STEREOAUTOGRAPH. WILLY SANDER, Jena, Germany, assignor to Firm of Carl Zeiss, Jena, Germany. Filed Nov. 11, 1920. Serial No. 423,520. 7 Claims. (Cl. 33—20.)



1. In a device for tracing on a plane surface linear elements of the surface, to be obtained from a photostereogram, of a spatial form, a bed-plate, a stereo-comparator comprising a binocular double microscope and four slides A, B, C, and D, a drawing device comprising three slides A_1, B_1, and C_1, of which C_1 is the bottom member and carries A_1 and B_1, which are disposed next to each other, and furthermore a drawing pencil disposed on the slide B_1, and a drawing board fixed to the said bed-plate, means comprising three lever systems for positively coupling the slides A and A_1, B and B_1, and C and B_1 respectively, means for setting the point of application of the lever system connecting the slides C and B_1 on the slide B_1 relatively to the latter slide, and means for coupling with the slide A_1 the said point of application, so that it receives a setting relatively to the slide B_1, on the slide A_1 being displaced relatively to the slide C_1.

1,477,083. HYDROSTATIC GAS-HEATER CONTROL. RICHARD H. SHADRICK, Minneapolis, Minn. Filed Aug. 5, 1922. Serial No. 579,967. 12 Claims. (Cl. 236—25.)

1. The combination of a heater controlling valve, a second valve, and means controlled by the opening and closing of the second valve to open the first valve upon initial opening and closing of said second mentioned valve



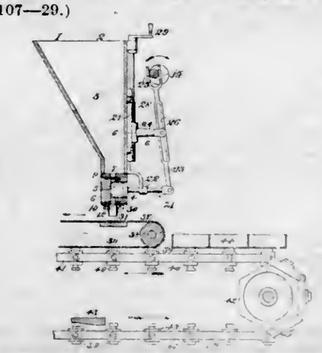
and to close the first valve upon a second operation of the second valve.

1,477,084. BELT. MANNING J. SMITH, Philadelphia, Pa. Filed Mar. 22, 1918. Serial No. 223,988. 1 Claim. (Cl. 74—63.)



A continuous belt built up of a strip of fabric having longitudinally extending warp threads and transversely extending weft threads, said belt being built up of at least two convolutes, the weft being removed from the extremities of the strip to provide frayed warp extending from the woven body, the ends of the woven body lying substantially opposite each other on opposite sides of an intermediate convolute while the frayed warp ends extend in opposite directions from the joint and are stitched to at least two thicknesses of the strip, the frayed warp ends near the longitudinal edges of the webbing being offset.

1,477,085. DEPOSITOR FOR CONFECTION-MAKING APPARATUS. CLIFFORD P. SPECK, Oakland, Calif. Filed June 27, 1921. Serial No. 480,767. 7 Claims. (Cl. 107—29.)



1. In a depositor for candy making apparatus having a movable mold and a holder for containing a supply of filler material, means for removing a charge of

material from said holder, and devices including a movable open ended tube and an endless belt for receiving said charge from the removing means and transferring the same to the mold.

7. A depositor for candy making apparatus comprising a holder for containing a supply of filler material, a base member for said holder having a cylinder formed therein with inlet and discharge openings, valves for controlling said openings, a drive shaft, a crank on said shaft, a lever having its ends respectively connected with said crank and said piston, and a fulcrum for said lever positioned between its ends, said fulcrum being adjustable to vary the stroke of said piston.

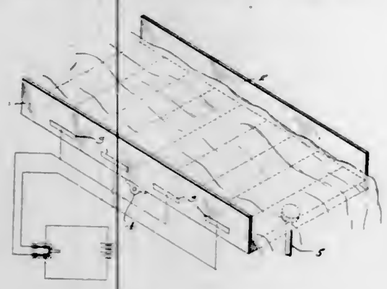
1,477,086. PROCESS FOR THE ELECTROLYTIC PRODUCTION OF POTASSIUM BICARBONATE FROM POTASSIUM-CHLORIDE SOLUTION. ROBERT SUCHY, Griesheim-on-the-Main, Germany, assignor to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Filed Aug. 24, 1921. Serial No. 494,836. 3 Claims. (Cl. 204—9.)

1. The process for the electrolytic production of potassium bicarbonate which comprises electrolyzing a potassium chloride solution neutralizing the potassium hydrate formed in the catholyte by means of potassium bicarbonate, thereby forming normal postassium carbonate, replacing the amount of potassium chloride consumed from the catholyte during electrolysis by adding fresh potassium chloride, precipitating potassium bicarbonate from the end liquor containing said normal potassium carbonate by introducing carbon dioxide, and recovering potassium bicarbonate from said liquor.

1,477,087. PROCESS OF PRODUCING TETRA-SUBSTITUTED UREAS. ARTHUR P. TANBERG, Wilmington, Del., and HERBERT WINKEL, Scranton, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 11, 1918, Serial No. 253,565. Renewed May 5, 1921. Serial No. 467,084. 17 Claims. (Cl. 260—125.)

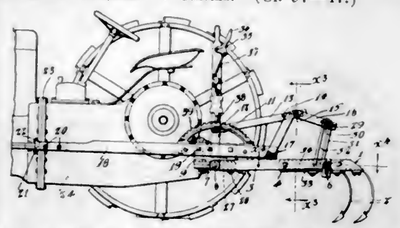
1. The process of producing tetra-substituted ureas which comprises passing carbonyl chloride into a secondary amine dissolved in an inert organic solvent, the amount of carbonyl chloride so introduced being about that theoretically required to form the tetra-substituted urea.

1,477,088. APPARATUS FOR PURIFYING LIQUIDS. ROBERT C. TURNER, Columbus, Ohio, assignor, by mesne assignments, to Electropure Corporation, Detroit, Mich., a Corporation of Delaware. Filed May 19, 1919. Serial No. 298,232. 4 Claims. (Cl. 204—24.)



1. Apparatus for purifying, sterilizing, or aging liquids, comprising a substantially flat runway on which the liquid may flow in a continuous stream, a series of electrodes flush with the surface of said runway and operative electrical connections for said electrodes.

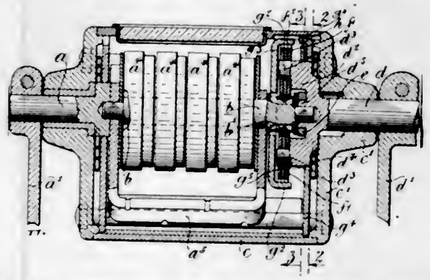
1,477,089. ATTACHMENT FOR TRACTORS. HEBER F. TOWNER, Santa Ana, Calif. Filed Sept. 24, 1921. Serial No. 502,845. 7 Claims. (Cl. 97—47.)



1. In an attachment for tractors, the combination of an implement frame, draft bars adapted for rigid connection with a tractor, arms extending forward from the frame and pivotally connected with the draft bars, levers pivotally mounted on the rear ends of the draft bars, means to hold said levers in different positions of adjustment, and connections between the frame and said levers.

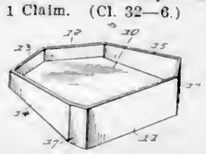
4. In an attachment for tractors, the combination of an implement frame, draft bars adapted for rigid connection with a tractor, arms extending forward from the frame and pivotally connected with the draft bars, angular levers pivotally mounted on the rear ends of the draft bars, means to hold said levers in different positions of adjustment, and loose connections between the frame and said levers permitting the frame to raise relative to the levers irrespective of the positions of said levers.

1,477,090. COUNTING MACHINE. CURTIS HUSSEY VEEDER, Hartford, Conn., assignor to The Veeder Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Dec. 30, 1922. Serial No. 609,847. 5 Claims. (Cl. 235—144.)



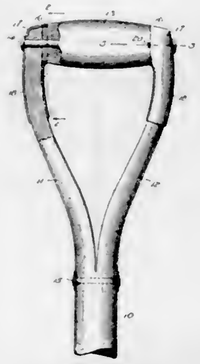
1. In a numbering machine, the combination of number wheels, a resetting shaft, an actuating shaft therefor, having at its inner end a hub, a plate fixed in the casing, and a bar secured to the casing and having an opening to receive and furnish a bearing for the hub of the actuating shaft.

1,477,091. DENTAL APPLIANCE. HARRY K. VON DER HEYDT, Butte, Mont. Filed Sept. 25, 1922. Serial No. 590,462. 1 Claim. (Cl. 32—6.)



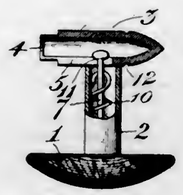
In a dental apparatus, a top or tray for plastic models comprising a one-piece structure having the character of celluloid, and the said tray including a bottom with upwardly extending flanges forming an enclosure, the said flanges being integral with one another and the bottom and continuous around the edge of the bottom, the flange at one end of the tray being relatively higher than the flange at the other end thereof, and the side flanges being tapered in height from one end flange to the other.

1,477,092. REENFORCED SPLIT D HANDLE. CHESTER J. WELSH, Conneaut, Ohio. Filed Feb. 13, 1922. Serial No. 536,182. 1 Claim. (Cl. 294—57.)



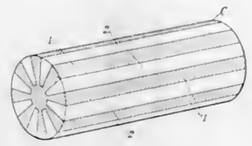
A D-handle comprising a wooden shaft bifurcated adjacent its upper end to form diverging arms, a grip bar inserted between said arms, a reenforcing member for each arm comprising a ring portion fitting over the adjacent end of the grip bar, a cap encasing the upper end of the arm and a sleeve like portion extending down from said cap and ring and substantially surrounding the upper portion of the arm, and a pin passing through the grip bar, arms and reinforcing members, said arms and sleeves being imperforate between said grip bar and the bottom of the bifurcation in the shaft, and said sleeves having a smooth exterior surface.

1,477,093. COLLAR BUTTON. JOSEPH H. WENZ, Long Island City, N. Y. Filed May 15, 1923. Serial No. 639,160. 2 Claims. (Cl. 24—100.)



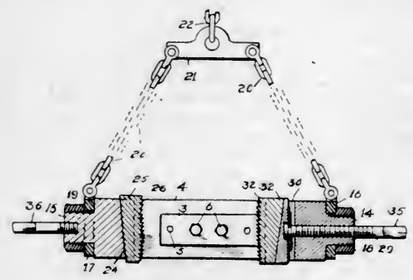
1. A device of the character described having a hollow shank and a button end for cooperation therewith, said parts both being oblong in cross section and held in yielding engagement with each other, and adjustable to different relative positions of alinement, said button end having a reduced portion also oblong in cross-section and adapted to telescope with said oblong shank, whereby to adapt the device to more easily enter a button hole, and to prevent the button end from rotating relatively to the shank as said parts are being entered in the button-hole, said button end being further provided with a shoulder, to limit said telescoping movement.

1,477,094. MANUFACTURE OF BUTTONS. ELBERT A. WILSON, Arlington, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 12, 1921. Serial No. 507,203. 4 Claims. (Cl. 18—51.)



1. The process of manufacturing different sized patterned pyroxylin plastic buttons with the patterns in all buttons mating but varying in size in correspondence with the differences in size of the buttons, which process comprises assembling various portions of pyroxylin plastic button stock with distinguishing relationship to present the desired pattern, extruding the stock to different sizes in correspondence with the desired different sized buttons, and in a direction longitudinal of the pattern, thereby to produce different sized button stock masses with the patterns in all masses mating but varying in size from mass to mass, and forming each said mass into buttons.

1,477,095. CRANE ATTACHMENT FOR HANDLING WELL-DRILLING BITS AND THE LIKE. BENJIMAN F. ZEIGLER, Fort Worth, Tex. Filed Sept. 6, 1922. Serial No. 586,446. 7 Claims. (Cl. 254—30.)

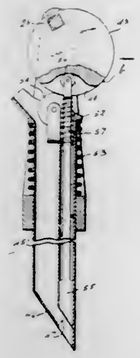


1. In a crane attachment, a horizontal frame, slips carried by the ends of the frame, means for adjusting the sides of the frame to adjust the distance between the ends of the frame, and means for adjusting one of the slips in its end member toward and away from the other slip.

1,477,096. INTERIOR-WALL FINISH. WALTER B. ALLEN, Worcester, Mass., assignor to Alinall Manufacturing Company, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 2, 1922. Serial No. 533,667. 1 Claim. (Cl. 134—50.)

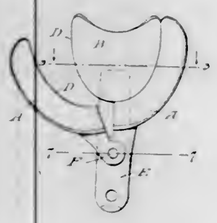
A composition for interior wall finish, comprising eighteen pounds of casein, three pounds of alkali, five pounds of hydrated lime, forty-five pounds of powdered mica—180–200 mesh, thirty-five pounds of china clay, and seven pounds of oxide of zinc.

1,477,097. PLANTER. FRED J. ANDERSON, Bishop Hill, LAWRENCE H. COWDEN, Kewanee, and LE ROY ERICSON, Bishop Hill, Ill. Filed Apr. 13, 1921. Serial No. 460,889. 4 Claims. (Cl. 111—89.)



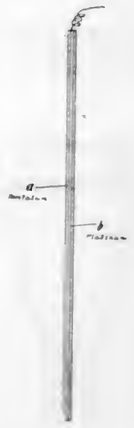
1. In a planter, a dibble comprising a casing supported for movement in a vertical direction, said casing being provided with a discharge opening, a movable valve for closing said discharge opening, an eccentric supported above the casing, means for rotating the eccentric, means for constantly urging the casing toward the eccentric, said casing having a part constantly in contact with the eccentric whereby the casing has movement in a vertical direction upon rotation of the eccentric, said eccentric being provided with a pocket, means for constantly urging the valve toward the eccentric whereby said valve enters the pocket of the eccentric thereby moving the valve into open position with respect to the discharge opening of the casing.

1,477,098. DENTAL TRAY. LOUIS BALTER, New York, N. Y., assignor to Balter Tray Manufacturing Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 18, 1923. Serial No. 613,323. 5 Claims. (Cl. 32—6.)



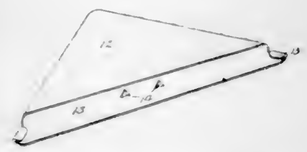
1. A dental impression tray for full upper and lower jaws, comprising inner and outer tray members, a handle, a ridge in said tray conforming in shape to the line of separation of said inner and outer tray members for predisposing moulding material after it hardens in said tray to breakage along said line, and means cooperating with said handle and said tray members for positively and rigidly holding the same in assembled position and permit movement of the tray members with respect to each other.

1,477,099. ANODE FOR FORMING PERCOMPOUNDS. GUSTAV BAUM, Carinthia, Austria, assignor to the Firm of Chemische Fabrik Weissenstein G. m. b. H., Carinthia, Austria. Filed Aug. 22, 1922. Serial No. 583,065. 2 Claims. (Cl. 204—4.)



1. An anode, for forming percompounds, consisting of a tantalum base portion having its surface partially coated with platinum.

1,477,100. MOUNTING MEMBER. EDWARD H. BINNS and RALPH H. BINNS, Pittsburgh, Pa. Filed May 16, 1922. Serial No. 561,363. 12 Claims. (Cl. 120—24.)

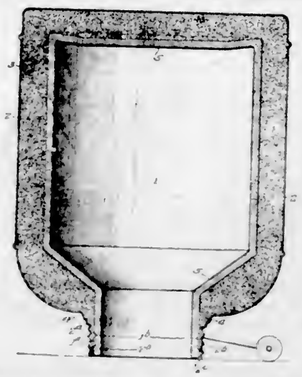


6. As an article of manufacture a member including a plurality of independent corner pieces adapted to be attached together by sheets of material extending between their bodies, rigid spikes associated with said corner pieces and engaging said sheets of material whereby this attachment is provided, and a tongue carried by each of said corner pieces, said tongue being formed with openings for accommodating the ends of said spikes whereby certain of said sheets of material may be inserted into the space existing between the lower face of the tongue and said corner pieces subsequent to which said tongue may be depressed to drive said sheets of material into engagement with said spikes.

1,477,101. HEAT-INSULATED CONTAINER. PEARL H. BRAINARD, Macomb, Ill. Filed Jan. 25, 1923. Serial No. 614,761. 7 Claims. (Cl. 215—12.)

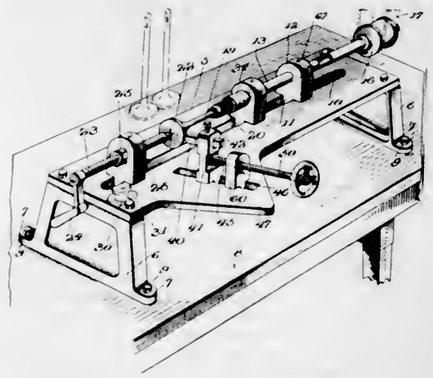
1. A heat insulated container having walls constructed with spaced inner and outer shells, of which

the inner shell is composed of highly porous substantially non-vitreous earthy material having a thickness which



offers substantial resistance to passage of heat by conduction.

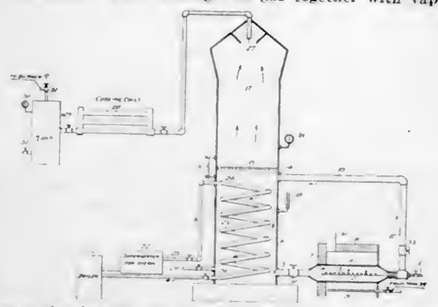
1,477,102. LATHE. NICK FRANCK BRASACCHIO, Tampa, Fla. Filed Mar. 30, 1922. Serial No. 548,113. 2 Claims. (Cl. 82—1.)



1. A valve refacing tool comprising a base having a lateral projection, the base being provided with a longitudinal slot, and the lateral projection being provided with a diagonal slot, a standard having a squared shank, slidable through said longitudinal slot and adjustable therein, a centering screw carried by said standard, a pair of bearings having square shanks adjustable in said longitudinal slot, means carried by said bearings for rotatably supporting a valve, a second standard having a squared shank adjustable in said diagonal slot, a cutter carried by said second standard, a bracket having a squared shank adjustable in said diagonal slot, and a feed screw threaded through said bracket and having engagement with said second standard.

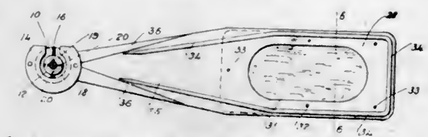
1,477,103. GASOLINE RECOVERY. WILLIAM BRINK, Henryetta, Okla. Filed July 12, 1918, Serial No. 244,609. Renewed Sept. 7, 1923. 2 Claims. (Cl. 196—27.)

2. The process of obtaining a gasoline from a heavy waste hydrocarbon and natural gas which consists in heating a small portion of the heavy oil to cause the oil to circulate in a closed path, delivering natural gas under pressure to said constantly circulating oil and in a direction of flow opposite to that of said heavy oil, returning the small portion of heavy oil to the remainder of the oil, freeing said gas together with vapor



from the heated oil, condensing said vapors and returning the vaporized heavy oil to the cycle.

1,477,104. SIGNAL FOR MOTOR CARS. JOHN W. BRINLEY, Lincoln, Nebr. Filed Jan. 18, 1923. Serial No. 613,445. 3 Claims. (Cl. 116—51.)



1. A combined signal and glare shield, comprising a bearing provided with means for securing it to a wind screen, a shaft journaled in the bearing, a semaphore arm formed of a plate of opaque material having one end portion secured to the said shaft and having a sight opening in its other end portion, a sheet of colored translucent material secured over the said opening, and catch mechanism adapted to lock the said shaft to the bearing with the said arm turned outwardly clear of the wind screen for use as a direction signal and with the said arm overlapping the wind screen for use as a glare shield for the driver.

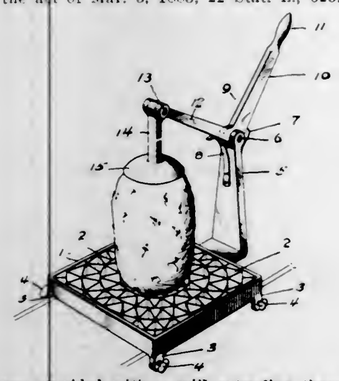
1,477,105. TOBACCO CONTAINER. THOMAS R. BRUMFIELD, Danville, Va., assignor of one-third to Emil M. Graff and one-third to Edward Lee Walton, both of Danville, Va. Filed July 18, 1922, Serial No. 575,772. Renewed Oct. 16, 1923. 5 Claims. Cl. 217—44.)



1. The combination with a cylindrical container consisting of a plurality of staves, of hoops connecting the staves and consisting of a plurality of lugs each of

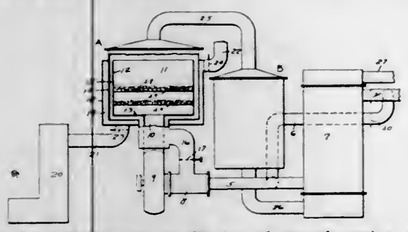
which is formed from a single length of metal bent intermediate its ends to provide center and outer loops and a pair of side arms, the ends of the arms being coiled about the outer loops of the adjacent links, and fastening devices connecting the intermediate portions of the side arms to the staves and connecting the center loops to the staves, said fastening devices forming a means whereby to prevent distortion of the center and outer loops.

1,477,106. VEGETABLE-SLICING MACHINE. GEORGE CALDWELL, Washington, D. C. Filed Oct. 4, 1922. Serial No. 592,389. 3 Claims. (Cl. 146—169.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. A base provided with a grill extending throughout its entire surface, having cutting edges, a supporting arm extending vertically from and to one side of the base and provided with a bearing and a stop at its upper end, a bell crank rocker arm pivotally mounted in the supporting arm, one of the arms of the bell crank being provided with a hand hold, and a plunger arm pivoted to the other arm adapted to force the vegetable through the grill.

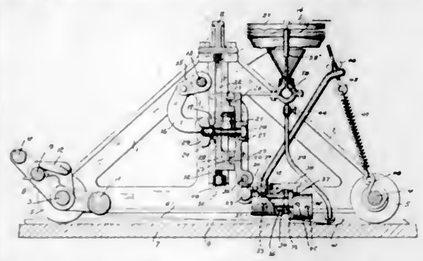
1,477,107. METHOD OF AND APPARATUS FOR THE MANUFACTURE OF SULPHURIC ANHYDRIDE. CLAUDE H. CAREY, Wilmington, Del., assignor to Atlas Powder Company, Wilmington, Del., a Corporation of Delaware. Filed June 28, 1922. Serial No. 571,489. 10 Claims. (Cl. 23—1.)



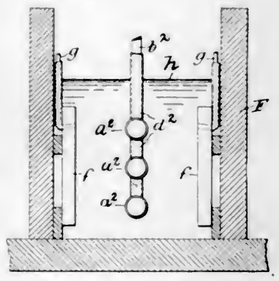
5. An improvement in the art of manufacturing sulphuric anhydride by the contact process which consists in introducing hot gases from the outlet of a converter containing catalytic material to the partially heated sulphurous acid gas and air mixture entering the converter, thereby obtaining a suitable temperature of the total mixture for entering the contact material.

1,477,108. GANG CUTTER FOR SHEET STOCK. HENRY Z. COBB, New York, N. Y., assignor to New York Belting and Packing Company, a Corporation of New York. Filed Apr. 29, 1920. Serial No. 377,513. 29 Claims. (Cl. 164—73.)

1. In a cutter for flexible sheet stock, a bed on which the stock is supported in stationary relation, means for cutting the stock into longitudinal strips, means for varying the angle of the cut edge of the strips with respect to the bed, means for relatively moving the cutting means and bed, and means for preventing buckling of the stock in advance of the cutting means.



1,477,109. PROCESS FOR THE MANUFACTURE OF ZINC CYLINDERS FOR PRIMARY BATTERIES. SHERARD OSBORN COWPER-COLES, Sunbury-on-Thames, England. Filed May 11, 1920. Serial No. 380,628. 14 Claims. (Cl. 204—8.)



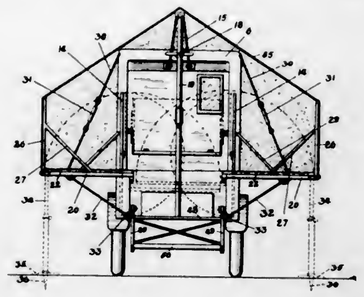
1. A process for the manufacture of zinc cylinders for use for the primary batteries of flash lamps and for other purposes, consisting in electro-depositing zinc cylinders of the required thickness and size on mandrels and preventing the deposited metal from becoming an integral part of the mandrel and then removing the deposited cylinders from the said mandrels and cutting them to the desired lengths substantially as hereinbefore described.

1,477,110. SWINGING ARTICLE OF FURNITURE. RAYMOND E. CROSS, New Brunswick, N. J. Filed Mar. 4, 1920. Serial No. 363,269. 2 Claims. (Cl. 155—67.)



1. The herein described support for an infant comprising two substantially equal counterpart sections, each section having a permanently concavo-convex bottom element, and said sections being hinged together at their adjacent inner ends and adapted to be folded one upon the other, in combination with four independent extensible suspending devices, each connected to an outer corner of a bottom element, and all adapted to extend vertically in parallelism from said elements to rigid superjacent supports and to be adjustably and detachably secured thereto independently of each other.

1,477,111. TENT ATTACHMENT FOR MOTOR VEHICLES. EDWIN RUSSELL EATON, Orillia, Ontario, Canada. Filed Aug. 3, 1922. Serial No. 579,442. 13 Claims. (Cl. 296—23.)



1. The combination with a motor vehicle chassis, of a boot suitably disposed on the chassis, a bed frame comprising a main portion including a head portion, a foot portion hinged to the main portion and folded over thereonto prior to the bed frame being swung into the inoperative position wherein it is contained within the boot, and means for supporting the main and foot portions in aligned relation exteriorly of the boot when in the operative position.

1,477,112. TELEMETER. OTTO EPPENSTEIN, Jena, Germany, assignor to the Firm of Carl Zeiss, Jena, Germany. Filed Aug. 13, 1921. Serial No. 492,104. 4 Claims. (Cl. 88—2.6.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

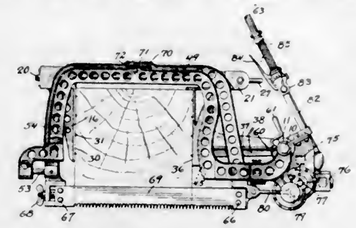


1. In a telemeter, the entrance apertures of which lie above the head of the observer, an objective reflecting system disposed behind each of the two entrance apertures and non-sensitive to rotations in the plane of measurement, the said reflecting system deflecting the ray pencil system, entering through the corresponding entrance aperture, in the direction of the base-line of the telemeter at the height of the corresponding entrance aperture, a separating prism system, an ocular system lying at the height of the said separating prism system, another reflecting system which transmits the two ray pencil systems to the said separating prism system, deflecting them out of the direction of the base-line, and two objectives lying near the last named prism system.

1,477,113. SYNTHESIS OF GLYCEROL. HARRY ESSEX and ALGER L. WARD, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 27, 1919. Serial No. 326,913. 16 Claims. (Cl. 260—156.5.)

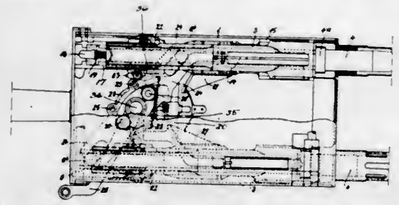
1. The process which comprises inducing a reaction between a haloleflne and aqueous hypochlorous acid in the presence of an alkali-metal carbonate to form a mixture containing corresponding halogen-substituted chlorhydrins and said carbonate, and heating said mixture until said halogen-substituted chlorhydrins have been hydrolyzed to polyhydric alcohols.

1,477,114. PORTABLE POWER CUT-OFF SAW. THOMAS FINLAYSON, Oakland, Calif. Filed Feb. 25, 1920. Serial No. 361,316. 7 Claims. (Cl. 143—68.)



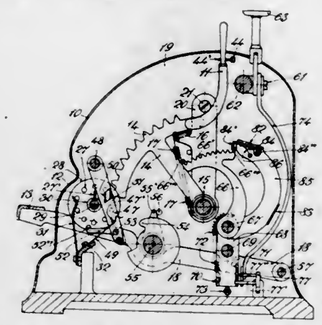
1. In a device of the character described, a clamp, a sleeve carried by said clamp, an axle in said sleeve, a saw support pivotally mounted on said axle, and means carried by said saw support for removing said axle from said sleeve.

1,477,115. DOUBLE-BARRELED MACHINE GUN WITH RECOILING BARRELS. CARL GAST, Barmen, Germany. Filed Sept. 30, 1920. Serial No. 413,887. 3 Claims. (Cl. 89—3.)



1. A machine gun comprising in combination; a receiver; two recoiling barrel systems slidable therein, each system containing a reciprocating barrel, a breech slide connected with the barrel, a breech-block arranged slidably in each breech slide, a firing pin in each breech-block, and a firing pin spring controlling the firing pin; a rocking lever connecting the two recoiling systems; a dog on each breech slide, adapted to throw over the rocking lever in consequence of the recoiling momentum of the fired system; a pin provided on each breech-block, and forked ends at the rocking lever engaging the pins on the breech-blocks, so as to swing forward the one breech-block during the recoil of the other breech-block.

1,477,116. CALCULATING MACHINE. GAETANO DE GIGLIO, Turin, Italy. Filed Feb. 26, 1921. Serial No. 447,906. 8 Claims. (Cl. 235—81.)



1. In a calculating machine, digit levers, a sector operated with each lever, a totalizing mechanism having toothed wheels arranged for engagement by said sectors, an

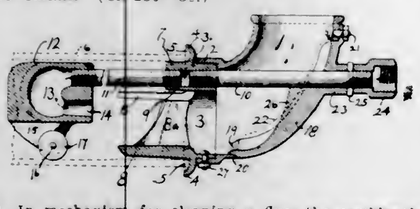
oscillating frame in which said levers and sectors are mounted and means to oscillate said frame to move said sectors simultaneously into and out of engagement with said toothed wheels of the totalizer.

1,477,117. ADVERTISING DEVICE. SAMUEL A. GLEASON, New York, N. Y. Filed Dec. 5, 1922. Serial No. 604,984. 2 Claims. (Cl. 274—42.)



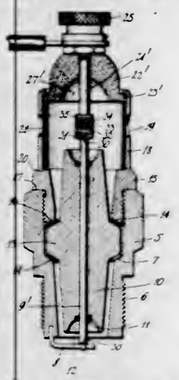
1. An advertising or similar card composed of a thin flexible material such as celluloid having printed thereon an inscription and impressed therein over the portion covered by the printed matter a sound record referring to the subject of such inscription.

1,477,118. BOILER-TUBE SUCKER AND SOOT EJECTOR. JOHN H. GOODFELLOW, Buffalo, N. Y. Filed Oct. 7, 1919, Serial No. 329,041. Renewed July 25, 1923. 15 Claims. (Cl. 230—38.)



1. In mechanism for cleaning a flue, the combination of an elbow, a ring carried by said elbow and having an external flange adapted to engage the end of said flue, a supply pipe carried by said elbow and ring, and a re-direct nozzle at the inner end of said pipe.

1,477,119. SPARK PLUG. EMIL GRAF, New York, N. Y., assignor, by mesne assignments, to Rudolph Steinacher, New York, N. Y. Filed Nov. 16, 1921. Serial No. 515,481. 2 Claims. (Cl. 123—169.)



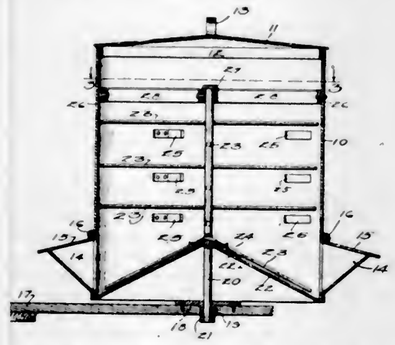
1. In a spark plug, a base, a top piece detachably secured to said base, an electrode carried by said top piece, a second electrode carried by said base, a condenser comprising a series of superposed alternately arranged conductors and insulators, interposed between said electrodes, the lower conductor of the series being secured to the first mentioned electrode, and the lower extremity of the second electrode bearing against the upper conductor of the series to assist in holding the conductors and insulators in position.

1,477,120. PISTON PACKING RING. OSCAR W. HANSON, Salina, Kans. Filed Oct. 27, 1920, Serial No. 419,903. Renewed May 2, 1923. 2 Claims. (Cl. 74—109.)



1. A piston packing ring comprising a split resilient band provided with a series of spaced annular corrugations upon its periphery between its top and bottom faces, the uppermost one of said corrugations being undercut on its lower face only to form a lower cutting edge and having a broad flat circumferential surface to bear upon the cylinder wall, and each of the other of said corrugations having an upper surface inclining outwardly and downwardly at a comparatively sharp angle and a lower undercut surface inclining outwardly and downwardly at a relatively gentler angle, said upper and lower inclined surfaces converging to a point so as to form a downwardly and outwardly inclined, wedge-shaped corrugation terminating in a sharp cutting edge, the cutting edges of all the corrugations being arranged for a cutting or scraping action on the cylinder wall in one direction of movement only of the piston.

1,477,121. ANIMAL FEEDER. MORRIS O. HENDERSON, Story City, Iowa. Filed Sept. 22, 1922. Serial No. 589,905. 2 Claims. (Cl. 114—54.)

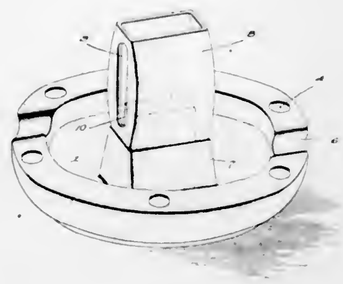


1. In an animal feeder, a base, a tubular container mounted for rotating on said base having an outwardly projecting trough at its lower portion, an upright fixed to said base and projected upwardly into said container radially projecting arms extending from said upright within the container, inwardly projecting elements on the inside of the container vertically spaced from the respective arms, a tapered member fixed to said upright in the lower part of the container, the parts being so arranged that the container may be rotated on said upright and on said base.

1,477,122. CIGARETTE-EXTINGUISHING ASH TRAY. WILLIAM H. J. HIPPLE, Jr., Philadelphia, Pa. Filed June 22, 1921. Serial No. 479,593. 3 Claims. (Cl. 131—51.)

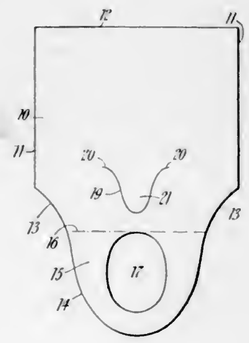
2. As a new article of manufacture, an ash tray formed of one piece of material and having a saucer-like body with an overhanging, inwardly-directed flange of

comparatively great thickness, arranged with its underside spaced from the bottom of the body, and provided at intervals with upright sockets the lower ends of which are open to the interior of the body; the said



sockets being tapered downwardly, and the flange being also provided in its upper side between two of the sockets with a depression extending throughout the width of the flange and adapted to serve as a cigar rest.

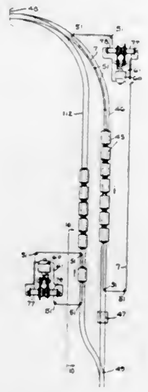
1,477,123. DISPLAY DEVICE. WILLIAM L. HOPKINS, Roslyn, N. Y., assignor to American Lithographic Company, New York, N. Y., a Corporation of New York. Filed Mar. 7, 1922. Serial No. 541,798. 4 Claims. (Cl. 40—2.)



1. In a display device of sheet material adapted for erection on a bottle or the like, the combination of a body having a U shaped cut therethrough whereby an opening and a lip are provided, said opening being adapted for receiving the neck of the bottle therethrough and said lip adapted for pressing against said neck, and a second opening below said U shaped opening adapted for engaging the lower portion of the bottle neck, said display being adapted to be flexed when erected on the bottle, whereby said openings are brought into engaging relation with the bottle.

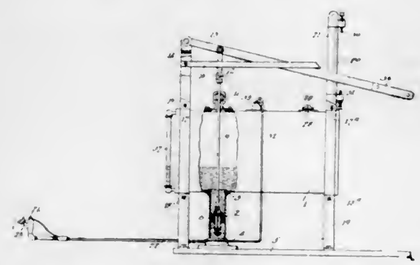
1,477,124. CAR-HAULING MECHANISM. MERITT HUTTON, St. Benedict, Pa., assignor to Rembrandt Peale, New York, N. Y. Filed Aug. 24, 1920. Serial No. 405,699. 70 Claims. (Cl. 104—178.)

2. A car handling mechanism including in combination a car track, a car engaging and propelling device adapted to propel a car in one direction only along the track, and means for traveling the car engaging and



propelling device in both directions and at different speeds along the track.

1,477,125. FUMIGATING APPLICATOR. RALPH M. JACKSON, La Habra, Calif. Filed Nov. 20, 1922. Serial No. 602,317. 1 Claim. (Cl. 299—97.)

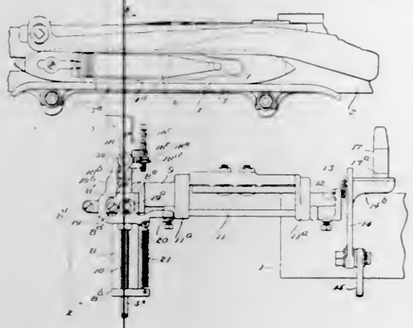


A fumigating applicator including a supply receptacle for fumigating fluid, base means, supporting means attached to said base means and projecting upwardly from said base means to a point above said receptacle, vertically disposed pump measuring means for measuring said fluid the measurement thereof representing a plurality of units, a horizontally disposed actuating lever for said pump means supported by said supporting means, a measure controlling member for controlling the said actuating member and for determining the unit measurement of the said measuring means, vaporizing discharge nozzle means laterally spaced from the said measuring means and fluid conducting means connecting said nozzle means with the said measuring means, fluid controlling means associated with the said nozzle means and adapted to control the free flow of fluid through the said nozzle means.

1,477,126. FEELER MECHANISM FOR LOOMS. SIMEON S. JACKSON, Hyde Park, Mass., assignor to The Stafford Company, Boston, Mass., a Corporation of Massachusetts. Filed June 15, 1922. Serial No. 568,511. 5 Claims. (Cl. 139—278.)

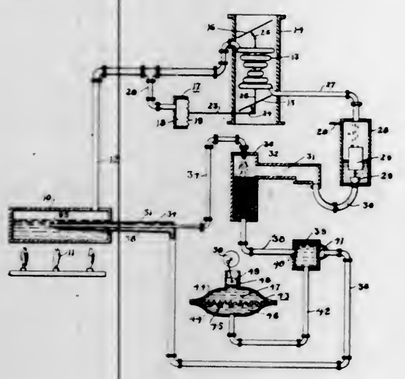
1. Filling-feeler mechanism for looms comprising a controller for the means for calling a change, a reciprocating filling-engaging member; a horizontally-swinging

datum-surface engaging member mounted on a pivot upon the filling-engaging member and having a forwardly-projecting arm, and a bell-crank mounted to swing horizontally around a pivotal axis, having one arm in operative engagement with the said controller and the other provided with a lateral face along which



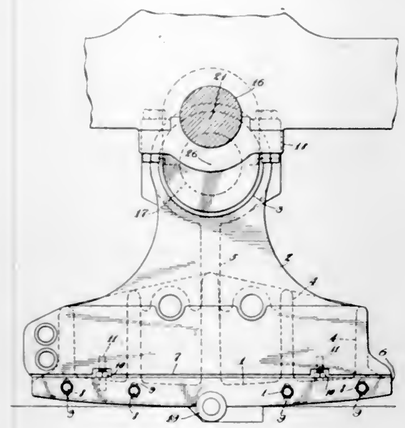
the said forwardly-projecting arm slides idly while sufficient weft remains within the shuttle, and against which said forwardly-projecting arm acts to move the bell-crank and bring about action of the controller to call a change when depletion of the weft allows the datum-surface engaging member to be rotated through engagement of the datum-surface therewith.

1,477,127. REFRIGERATOR. ALEXANDER T. KASLEY, Essington, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 4, 1921. Serial No. 442,498. 15 Claims. (Cl. 62—178.)



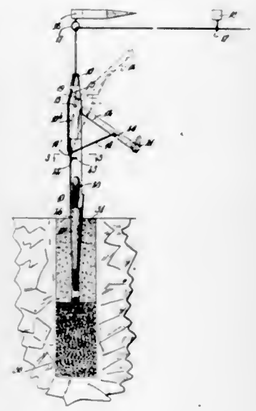
1. The process of refrigeration involving the continuous circulation of an expansible refrigerant within a closed system from which air has been exhausted, which comprises applying heat to a solution of a refrigerant and an absorbent in a container whereby vapors of the refrigerant are driven off, condensing the vapors, regulating the rate of condensation to obtain a pressure in excess of atmospheric pressure during the steps of vaporization and condensation, purging a small quantity of vapor to remove any noncondensable vapors, expanding the condensed vapors by spraying into a region of low absolute pressure, withdrawing a portion of the solution from the container into a separate vessel, and absorbing the expanded vapors in the withdrawn solution.

1,477,128. PLATEN FOR PRINTING MACHINES. CARL A. KELLOGG, Brooklyn, N. Y. Filed Dec. 15, 1919, Serial No. 344,956. Renewed Nov. 29, 1921. Serial No. 518,641. 15 Claims. (Cl. 101—250.)



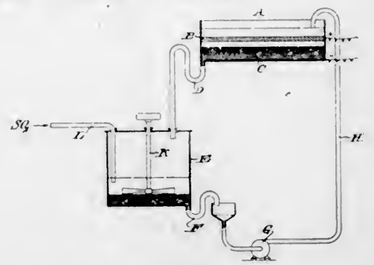
1. In a printing machine, a printing couple embodying a flat form and a platen having a curved impression surface, and a crank for operating the platen to move it on and off impression, said platen being adapted for substantially line contact with the form during impression and the curved impression surface of the platen being of such conformation that the crank will, at all times, be on the dead center with the line contact between the platen and form during impression.

1,477,129. SQUIB-LIGHTING DEVICE. ANTHONY KRASILNIKOFF, New York, N. Y. Filed May 7, 1923. Serial No. 637,252. 6 Claims. (Cl. 102—8.)



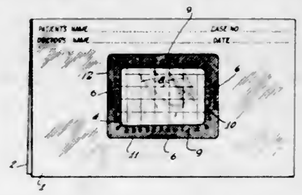
1. A squib lighting device comprising an element adapted to detachably support the squib, an arm hinged thereto and adapted to carry a burning material into contact with said squib, and a cord connected to said arm to provide means for drawing the burning material into igniting position.

1,477,130. MANUFACTURE OF HYPOSULPHITES. HANS KÜHNE, Leverkusen, and FRANZ BENCKER, Mulheim, near Cologne, Germany, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne, Germany. Filed Nov. 18, 1921. Serial No. 516,139. 6 Claims. (Cl. 23—13.)



1. A process for the manufacture of hyposulphites which consists in treating a solution of a bisulfite with an amalgam and a free non-oxidizing acid, substantially as described.

1,477,131. X-RAY MOUNT. IRVING KULIK, Brooklyn, N. Y. Filed Sept. 30, 1922. Serial No. 591,491. 12 Claims. (Cl. 41—21.)

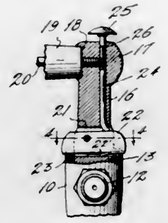


1. A mount for photographic transparencies embodying a folder of relatively light colored material adapted to transmit light and comprising two leaves, the front leaf of which is provided with a window opening, means for mounting a photographic transparency in juxtaposition with the window opening, so that said transparency may be viewed by transmitted light, and a relatively dark colored border around the window opening to preclude glare when the transparency is thus viewed.

1,477,132. YEAST COMPOSITION AND METHOD OF MAKING THE SAME. MANZABURO KUSHIRO, Pasadena, Calif. Filed Oct. 23, 1922. Serial No. 596,516. 2 Claims. (Cl. 195—21.)

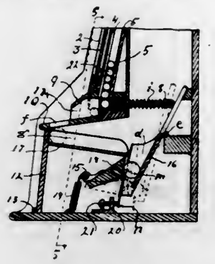
2. The herein described process of making yeast, consisting of soaking a quantity of rice in clean water for about twenty hours, then draining the same, then steaming the rice in a screen steamer until it is well cooked, the steaming step including the placing of a quantity of hops saturated with water and first passing the steam through the saturated hops in the bottom of the steam cooker and thence through the rice on screens superposed above the layer of saturated hops, then after the cooking step, spreading the cooked rice out to cool until its remaining temperature is about 95° F., then adding a small quantity of cultured yeast of the species "Saccharomyces sake yabe," then thoroughly fixing the rice and yeast together, then placing the same in a chamber which may be hermetically sealed to exclude the air and covering the rice within the chamber with a cloth to retain the heat, then, after a period of two hours, agitating and crumbling the rice to separate the kernels, and again covering and heating the rice as before, then after another period of from fourteen to fifteen hours, repeating the agitating and crumbling of the rice, and again covering with a cloth and heating the rice, then repeating the agitating and crumbling step after a period of from seven to eight hours, and then, after a period of from ten to fifteen hours, or when the yeast culture has spread over the rice, finally removing the same from the closed chamber and drying the rice in a dry atmosphere.

1,477,133. GAS COCK. GOTTLIEB LANGE, Dallas, Tex. Filed Mar. 25, 1922. Serial No. 546,578. 1 Claim. (Cl. 251—165.)



In a safety gas cock, the combination of a body, a rim provided on one side with shoulders and on the opposite side with a notch, a rotatable valve in the body, a stem extending from the valve above the body and having a transverse slot extending therethrough, a latch extending through the slot and projecting on opposite sides of the stem, one end of the latch engaging in the notch and the other end of the latch lying between the shoulders, the latch being pivoted in the slot nearer one side of the stem, a vertical plunger in the stem having its lower end projecting into the slot and bent, whereby it is retained against upward displacement, the bent end of the plunger bearing on the shoulder-end of the latch away from the pivot, and a supporting spring under the end of the latch lying between the shoulders.

1,477,134. VENDING MACHINE. WILLIAM H. LARAWAY, Grand Rapids, Mich. Filed Dec. 14, 1921. Serial No. 522,437. 2 Claims. (Cl. 194—88.)

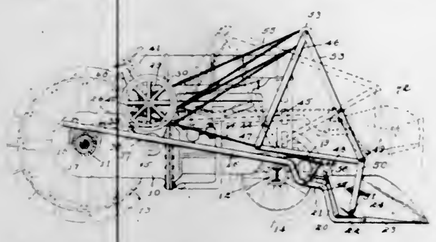


1. In combination with a case having chutes therein for storing bottles in vertical tiers, a slide under each chute for forcing the lower bottles from the chutes out of the machine, an inclined roof below said slides having slots therethrough and slotted chutes for the passage of coin to its actuating mechanism; a lever pivotally mounted in the case before each bottle chute with a slotted downwardly extended body, and an upwardly extending arm, an actuating bar adjacent to each slotted body and pivotally mounted at a point distant from the body and so positioned that it may be thrown forwardly and downwardly to revolve the coin in the slot and force the body of the lever backwardly, and the arm of the lever forwardly, a backwardly extended arm on each slide so contacting the arm on the lever that the forward movement of the arm will force the slides forwardly and discharge a bottle therefrom, an actuating spring for carrying each slide back into normal position.

1,477,135. METAL BLOOM AND METHOD OF MAKING SAME. HORACE W. LASH, San Francisco, Calif. Filed Feb. 8, 1919. Serial No. 275,871. 7 Claims. (Cl. 75—73.)

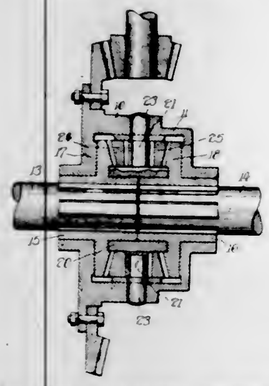
1. A metal bloom comprising a partially fused and forged mass of scrap ferrous pieces and carbonaceous material.

1,477,136. SCOOP ATTACHMENT FOR TRACTION ENGINES. ALEXANDER LAURIE, Des Moines, Iowa. Filed Sept. 27, 1921. Serial No. 503,645. 5 Claims. (Cl. 214—140.)



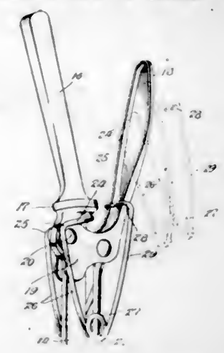
1. The combination of a tractor having supporting axles and a drive member, with a scoop, arms pivoted to the rear axles and also pivoted centrally beneath the said scoop, a frame pivoted to the forward end of said tractor at a point considerably above the said scoop, said frame being provided with a pivot member overhanging the central portion of said scoop, links pivoted to said overhanging pivot member and with said scoop, means driven by said drive member for swinging said frame to elevate and lower said overhanging pivot member, the said links being designed to rest substantially in a perpendicular position when either elevated or lowered, means for dumping said scoop and means for returning the scoop to its closed position.

1,477,137. DIFFERENTIAL MECHANISM. FRANK M. LEWIS, Chicago, Ill. Filed Nov. 16, 1922. Serial No. 601,212. 10 Claims. (Cl. 74—71.)



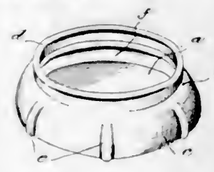
1. In a differential mechanism, the combination of a rotatable housing, axle sections entered within the opposite ends of said housing, driven clutch members fast on said axle sections, shiftable clutch members between said driven members formed with recesses in their adjacent sides, a driver connected to said housing and having portions thereof disposed within mating recesses of said shiftable members, means urging said shiftable members outwardly into clutch engagement with said driven members, and co-operating means on said shiftable members effecting a relative inward movement thereof under a relative turning movement of said shiftable members.

1,477,138. ANTIRATTLER FOR LEVER CONTROLS. ROBERT JESSE LOOCK, Baltimore, Md. Filed May 10, 1923. Serial No. 638,139. 4 Claims. (Cl. 74—39.)



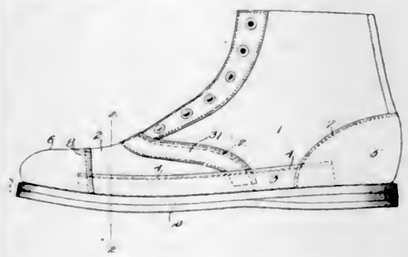
1. In an anti-rattler for lever controls, the combination of a lever having a hand grip, a pivoted handle associated therewith, and a spring normally spreading said hand grip and handle comprising a loop for engaging the lower portion of one of said members, an engaging portion for the lower portion of the other member, and an intermediate tensioning portion.

1,477,139. BOTTLE CAP. ANTHONY F. G. LUCAS, Washington, D. C., and JESSE F. ALEXANDER, Philadelphia, Pa. Filed Sept. 29, 1923. Serial No. 665,564. 5 Claims. (Cl. 215—38.)



1. A bottle cap permanently formed of semi rigid material, comprising a central disc *a*, surrounded by walls *f*, *b*, *c*, forming a channelled ring with an annular hollow rib *d* formed in its upper wall *b*, to permit the walls *b*—*c* outside the rib to adjust themselves closely to bottle necks without distortion of inner or outer walls.

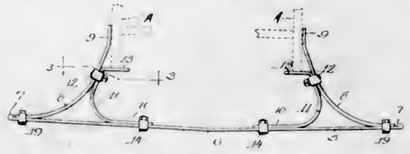
1,477,140. BOOT AND SHOE. ALPHEUS F. S. LYONS, Neenah, Wis. Filed Nov. 17, 1920. Serial No. 424,767. 2 Claims. (Cl. 36—45.)



1. A boot or shoe of the character described comprising a top whose vamp and quarter are separate pieces of cloth joined along a line extending across the instep; a leather strip covering the joint between the vamp and quarter and stitched to both of said parts; two relatively narrow longitudinally disposed leather side braces fastened in position upon the outer sides of the lower marginal portions of said top and overlying the ends of said strip, one at each side of the top; a toe cap overlying the forward ends of said side braces; a counter cover overlying the rear ends of said side braces; stitches securing the toe cap to said top and to said forward ends and the counter cover to said top and said rear ends, and an outer sole, the lower marginal portions of said top and said side braces being turned inwardly together above said outer sole and both fastened to the latter.

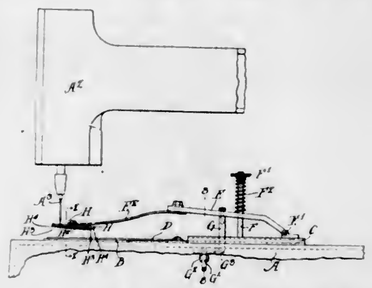
2. A boot or shoe of the character described comprising a top whose vamp and quarter are both made of cloth; two separate relatively narrow longitudinally disposed side braces of leather fastened in position upon the outer sides of the lower marginal portions of said top, one at each side thereof; a toe cap overlying the forward ends of said side braces; a counter cover overlying the rear ends of said side braces; stitches securing the toe cap to said top and to said forward ends and the counter cover to said top and to said rear ends; an innersole; an outer sole between which and said innersole the lower marginal portions of said top and said side braces extend inwardly, and stitches fastening said inturned portions of said top and braces to said innersole.

1,477,141. BUMPER. JOHN W. MCCAUSLAND, Chicago, Ill., assignor to Stafford Sales Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 22, 1923. Serial No. 614,064. 5 Claims. (Cl. 293—55.)



1. A bumper comprising an impact member formed of a horizontal bar, and means for attaching the end portions of the same to a vehicle consisting each of spring bars clipped together intermediate their ends; the portions of said attaching bars adjacent the impact member being curved in opposite directions and secured to said member, the other ends of said attaching bars extending to the vehicle and secured thereto at points spaced from each other.

1,477,142. WORK CLAMP FOR BUTTONHOLE-SEWING MACHINES. MICHAEL MCCANN, Glenmorris, N. Y., assignor to Frederick Osann Company, New York, N. Y., a Corporation of New York. Filed July 8, 1922. Serial No. 573,650. 7 Claims. (Cl. 112—76.)



1. A work clamp for button hole sewing machines comprising a lower member having a recess over which the portion of the cloth in which the button hole is to be formed extends, two parallel cross bars one at each end of said recess and slots formed in the member outside of said bars in combination with an upper clamp centrally recessed to expose the goods and having downwardly extending bars adapted to enter the slots in the lower member.

1,477,143. WELDING PROCESS AND PRODUCT. LEWIS G. MCCLINTOCK, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company, a Corporation of Pennsylvania. Filed May 1, 1922. Serial No. 557,512. 1 Claim. (Cl. 220—24.)



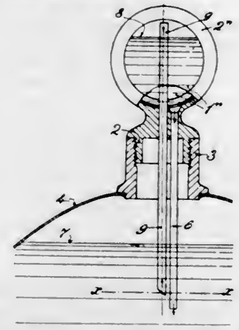
A cover comprising the combination with a metal sheet having an opening with the metal around the opening turned upward as a flange inclined toward the apex of a cone, of a member in said opening, the side of said member and the end surface of said flange forming a V-shaped groove, and a weld in said groove between said member and said flange.

1,477,144. CIGAR BAND. FRANCIS X. MALOCSAY, New York, N. Y., assignor to International Banding Machine Company, New York, N. Y., a Corporation of New York. Filed Oct. 1, 1920. Serial No. 414,074. 10 Claims. (Cl. 40—21.)



1. A cigar band or the like having one of its ends folded to lie outside of the plane of the band, which ends leans towards the cigar in the banding operation.

1,477,145. LIQUID-LEVEL INDICATOR. ALFREDO MARONE, Santa Vittoria d'Alba, Italy. Filed Sept. 1, 1921. Serial No. 497,695. 3 Claims. (Cl. 116—118.)

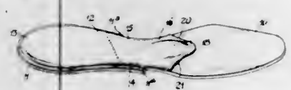


2. A liquid level indicator comprising a transparent liquid receptacle arranged above the level of the liquid whose level is to be indicated and having a depending tube, and an air vent tube extending normally above the liquid in said container, both tubes being normally liquid sealed by the liquid whose level is to be indicated.

1,477,146. ADJUSTABLE METATARSAL SHOE SHANK. RALPH L. MARTEAU and GEORGE A. SCHROETER, Brooklyn, N. Y. Filed Apr. 17, 1922. Serial No. 554,168. 2 Claims. (Cl. 36—71.)

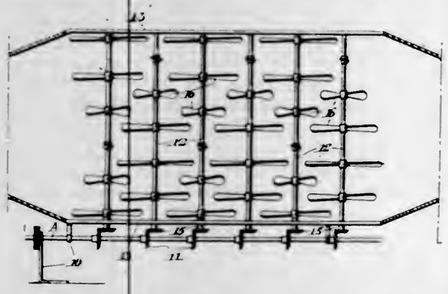
1. In an arch supporting member for a shoe, a shank comprising a heel portion secured to a permanent section of the shoe and an unattached forward portion, said forward portion being provided with a pocket hav-

ing an inlet in the under side of the shank, the said inlet comprising a transverse slot extending between points short of opposite edges of the pocket, and a supporting member insertable in said pocket through the said slot and adapted to be held beneath the anterior metatarsal arch of the foot.



2. A shoe having an upper, a sole secured thereto and a flap member fastened at its rear end to the sole and upper and otherwise unsecured, and arranged to provide an accessible shank pocket to receive an insert, the flap member extending to the ball line, but provided at the sides of its forward end with suitable cut-aut portions for the accommodation of bearing points of the foot at the ball line.

1,477,147. HELICOPTER. ERNEST ROY MITTON, Port Elgin, New Brunswick, Canada. Filed Mar. 27, 1922. Serial No. 547,090. 3 Claims. (Cl. 244—19.)



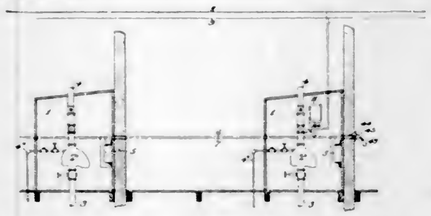
1. Means for increasing the lifting and carrying capacity of aircraft, which means consist in the combination of a plurality of vertically arranged shafts, each shaft having a plurality of propellers mounted thereon in series, and forming a common axis for such propellers, the relative pitch of the propellers of each series increasing downwardly from the top of the shaft, so that the pitch of any one propeller is steeper than that of the propeller immediately above it, the vertical shafts being so arranged that the blades of each series of propellers are disposed in over-lapping relation and cooperate and interlap in rotation with the blades of the adjacent series of propellers.

1,477,148. HINGE. CARL B. PARSONS, Detroit, Mich., assignor to Parsons Manufacturing Company, Detroit, Mich. Filed Sept. 8, 1921. Serial No. 499,181. 4 Claims. (Cl. 16—135.)



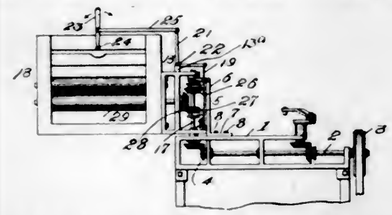
1. In a hinge having a pair of hinge members provided with interengaging knuckles connected together by a pivot pin, a cover plate channelled to receive one of said hinge members, which channel is provided at the outer end with a hood which enclosed the hinge joint.

1,477,149. CONTROL PANEL FOR HEATING EQUIPMENT. OSCAR G. POUCH, New York, N. Y. Filed Mar. 22, 1921. Serial No. 454,546. 9 Claims. (Cl. 219—20.)



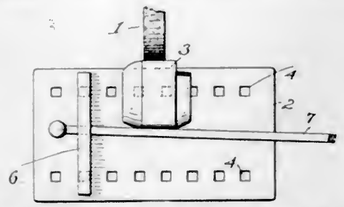
1. In a temperature regulating apparatus, a main line circuit, an electric heater, a heater line circuit, an electro-magnet, a relay therefor and a thermostat arranged to automatically control the operation of the relay and thereby the electro-magnet, to break the connection between the main and heater line circuits when the temperature falls to a predetermined point and to make the connection when the temperature rises to a predetermined point.

1,477,150. WRINGER-OPERATING MECHANISM. WILLIAM N. RETTINGER, Bourbon, Ind. Filed Feb. 6, 1923. Serial No. 617,335. 4 Claims. (Cl. 68—32.)



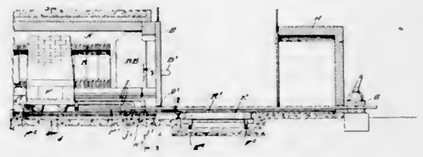
1. In a mechanism of the class described, the combination with a frame, of a primary bracket above said frame, said bracket comprising a vertical body portion having a horizontal base, means fastening the base to said frame, said vertical body portion provided at its upper end with a curved flange and with a second flange extending from the middle of the first-mentioned flange, said curved flange provided with an elongated slot, a pivotally mounted auxiliary bracket associated with said primary bracket, a shaft provided with sliding gears extending through said primary and auxiliary brackets, means working in the slot of the primary bracket for shifting said gears, a wringer carried by the auxiliary bracket, and said wringer provided with a gear adapted to mesh with either one of the gears on the shaft.

1,477,151. REST PLATE AND FULCRUM FOR GRINDING MACHINES. ANTONINO PIZZINO, Massillon, Ohio. Filed Jan. 3, 1922. Serial No. 526,472. 4 Claims. (Cl. 51—238.)



1. The combination with a rotary tool of a platform extending in front of said tool, an adjustable member on the platform which acts as a fulcrum and extends upwardly from the platform, means for retaining said adjustable member in adjusted position on the platform, and a bar adapted to have a portion thereof in engagement with said movable member as a fulcrum and another part to engage with an object to be moved against the rotary tool.

1,477,152. TUNNEL KILN. HARRY M. ROBERTSON, Rockville, Md., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 20, 1920, Serial No. 375,267. Renewed May 15, 1923. 9 Claims. (Cl. 25—142.)

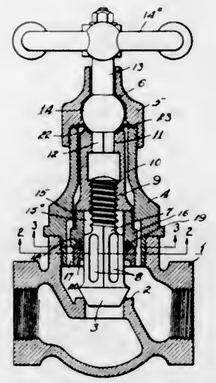


1. The combination with a continuous tunnel kiln and the goods carrying cars movable through it of means for withdrawing the goods carrying cars from the exit end of the kiln comprising a dummy car, means for moving the dummy car into and out of the kiln at its exit end, and means for detachably coupling the dummy car to the goods carrying car.

1,477,153. PROCESS OF MAKING A FOOD PRODUCT FROM SKIM MILK. LORE A. ROGERS, Washington, D. C., assignor to Assistant Secretary of Agriculture of the United States of America. Filed Feb. 24, 1923. Serial No. 621,061. 2 Claims. (Cl. 99—11.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

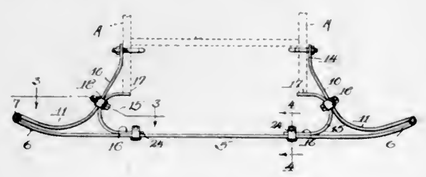
1. The process of making a food product consisting in precipitating the casein of skim milk by the growth of high acid producing bacteria of the Lactobacillus group, breaking the curd into fine discrete particles by forcing the scoured skim milk through a homogenizer, and condensing the skim milk.

1,477,154. VALVE-OPERATING MECHANISM. RICHARD SPRINGBORN, Cleveland, Ohio. Filed Apr. 14, 1921. Serial No. 461,189. 6 Claims. (Cl. 251—47.)



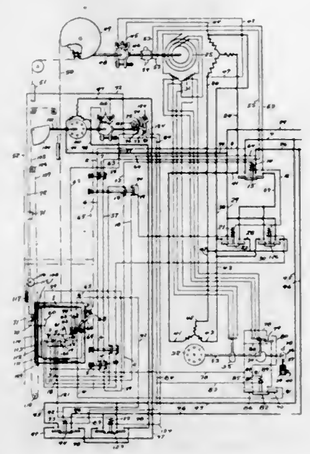
3. In combination, a valve bonnet, an adjustable valve member therein, a valve driving member, an operating member extending from the inside of said bonnet to the outside thereof and adapted to actuate said driving member, a flexible metal washer seating on said driving member and having its periphery sealed in said valve bonnet, said operating member being provided within said bonnet with an enlarged spherical portion engaging said bonnet and said flexible washer, and yielding means for maintaining engagement between the spherical portion of said operating member and said washer and bonnet.

1,477,155. BUMPER. LEWIS F. STAFFORD, Chicago, Ill., assignor to Stafford Sales Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 22, 1923. Serial No. 614,094. 11 Claims. (Cl. 293—55.)



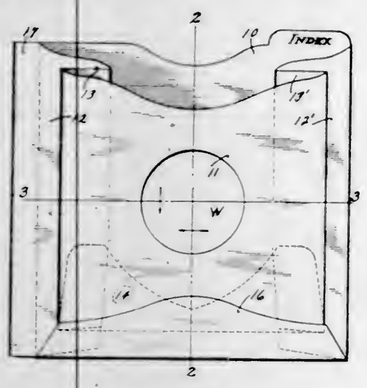
3. A bumper for motor vehicles comprising an impact member, means for securing said member to a vehicle having hinged connection with the impact member at the ends thereof, and means extending to the vehicle and secured thereto at points spaced from the points of attachment of the first named means and providing supplementary support for the impact member.

1,477,156. ELEVATOR-CAR LEVELER. ERNEST B. THURSTON, Toledo, Ohio, assignor to The Haughton Elevator & Machine Co., Toledo, Ohio, a Corporation of Ohio. Filed Oct. 4, 1920. Serial No. 414,439. 17 Claims. (Cl. 187—29.)



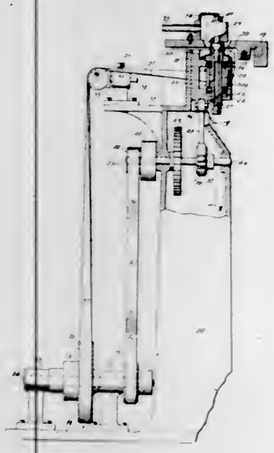
10. An elevator car landing leveler comprising a car, a motor for actuating the car, a landing gate for the car, a car controller for the motor, an actuator for the landing gate, a gate controller for the actuator, a cut-out switch for the car controller when the gate controller is operated to open the gate, and a cut-in switch for the car controller disposed to coact with the car adjacent said landing in a range of limited car travel.

1,477,157. ENVELOPE. HAROLD L. TUERS, New York, N. Y. Filed Aug. 20, 1920. Serial No. 404,819. 14 Claims. (Cl. 129—20.)



10. Means for holding disk records of different diameters in axial alignment comprising an envelope or bag struck up from a single sheet of material and folded to form different sized compartments.

1,477,158. GRINDING MACHINE. ALMAR E. WESTMAN, Fenton, Mich., assignor of one-fourth to Charles H. Lea, one-fourth to Gustaf Alexander Olofson, and one-fourth to Charles Olofson, all of Fenton, Mich. Filed Apr. 2, 1921. Serial No. 458,167. 1 Claim. (Cl. 51—271.)



In a grinding machine, an upright frame, a bearing block rigid with the frame having a vertical guide-way for a grinding head, a grinding head having a body portion mounted in said guide-way for vertical movement and offset spaced-apart arm portion having bearings for a spindle, the uppermost arm portion provided with an upwardly-extending annular flange concentric said spindle bearing, a spindle journaled vertically in said arm portions for rotation extending upwardly above the upper arm, said spindle provided with a shoulder above the upper arm, a dust cap carried by said spindle encircling the same below said shoulder and having a downwardly-extending flange freely encircling the upwardly-extending flange of the upper arm.

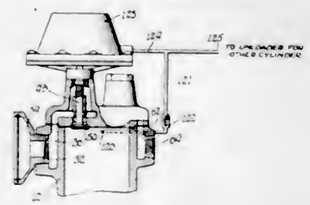
1,477,159. WINDOW SHADE. HENRY ZINSER, New York, N. Y. Filed Sept. 20, 1921. Serial No. 501,995. 1 Claim. (Cl. 156—25.)



A window shade comprising a roller, a shade fastened thereto, and flexible bands attached to said shade and roller, the length of each band in its normal unstretched state being shorter when the shade is nearly unwound from the roller than the distance measured on the shade between the point of attachment of the shade to the roller and the point of attachment of said band to said shade, each band being attached to the said shade intermediate its ends and the loose portion of each band extending toward said shade, the points of attachment of said bands to said roller and the points of attachment of said shade to said roller being spaced apart and the points of attachment of said bands to said roller being disposed below the points of attachment of said shade to said roller when the shade is nearly unwound from the said roller.

1,477,160. [WITHDRAWN.]

1,477,161. UNLOADER FOR COMPRESSORS. BURTON SILAS AIKMAN, Milwaukee, Wis., assignor to National Brake & Electric Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 23, 1922. Serial No. 596,227. 21 Claims. (Cl. 230—24.)



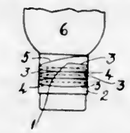
1. The method of loading a motor compressor unit, which comprises controlling the loading pneumatically as a function of the flow through an inlet passage of the compressor.

6. In combination with an air compressor having an intake valve and a piston, a weight normally holding said valve open, and suction means energized by the movement of the piston for lifting said weight.

1,477,162. YARN PACKAGE. THOMAS ANDREW, Rochdale, England. Original application filed Apr. 14, 1920, Serial No. 373,950. Divided and this application filed Sept. 14, 1921. Serial No. 500,624. 3 Claims. (Cl. 242—159.)

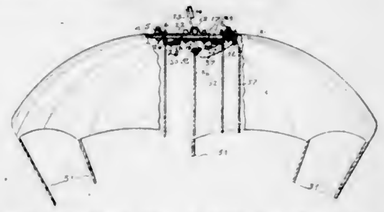
1. In a yarn package, a yarn holder, a loose projecting easily accessible end of yarn continuing into and having its immediate continuation overlapped and secured by so-

curely fixed coils of yarn wound on the holder previously to the ordinary initial windings of the yarn package and



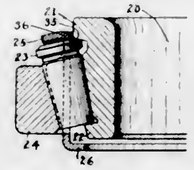
on part of the holder to project from the first wound end of the completed yarn package.

1,477,163. PARACHUTE CONTROL. ARTHUR A. BARTON, Chicago, Ill. Filed Nov. 4, 1921. Serial No. 512,758. 4 Claims. (Cl. 244—21.)



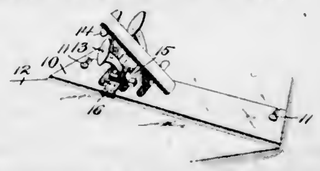
1. The combination with a parachute having an opening in its top, of a combination valve-door and rudder adjustable at various angles of inclination on an axis spanning said opening, and means for operating said valve-door and rudder.

1,477,164. ROLLER BEARING. LYMAN W. CLOSE, Toledo, Ohio, assignor to The Bock Bearing Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 18, 1922. Serial No. 544,856. 4 Claims. (Cl. 64—62.)



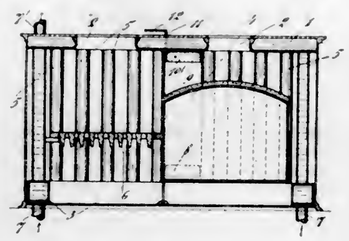
1. A cage for roller bearings comprising end flanges and roller spacing bridging members connecting said end flanges and so formed as to leave roller spaces each of which at one end is of less width than the diameter of that part of the roller that fits therein, and at the opposite end is as wide as the diameter of that part of the roller that fits therein, each of said bridging members having wings along its edges adapted to partially surround the rollers to retain the latter in said spaces.

1,477,165. AUTOMOBILE LOCK. RANSOM A. DONBELAAR, Newark, N. J. Filed Mar. 8, 1923. Serial No. 623,591. 3 Claims. (Cl. 70—126.)



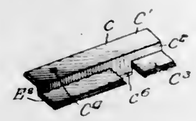
2. An automobile lock comprising a support having parallel slots, a lock casing between the slots, bolts slidable in the casing and adapted to be projected from opposite sides of the casing across the slots, a pinion between the bolts to cause their simultaneous operation, a lock in the casing, and a segmental pinion operated from the lock and in mesh with one of the bolts.

1,477,166. WATER HEATER FOR STOVES. PER ERICK DUBERG, Hallsberg, Sweden. Filed Oct. 6, 1922. Serial No. 592,872. 1 Claim. (Cl. 126—5.)



A stove provided with a water heater comprising, a hollow tank forming the top of the stove and having openings therethrough for the reception of cooking utensils, a tubular tank at the bottom of the stove and extending along the sides and back thereof, tubes located at the sides and back of the stove and connecting the upper and lower tanks, a smoke outlet near the lower tank, a smoke outlet near the upper tank, and means for opening and closing the last named outlet.

1,477,167. ROOFING CLEAT. ALBERT C. FISCHER, Chicago, Ill. Filed Dec. 12, 1919. Serial No. 344,322. 17 Claims. (Cl. 108—33.)



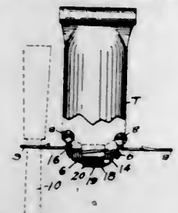
1. A roofing cleat having an elongated substantially flat plate with a downwardly disposed offsetting portion lending stiffness thereto; said plate having means adapting it to be nailed in position; a portion of said offsetting surface being extended beyond the rest to adapt it to provide a weather bar for the space between two separated portions of overlapped roofing.

1,477,168. STEERING ARM. ROBERT L. GARRETT and JAMES LEE GOOLSBY, Marlin, Tex., assignors of one-third to William F. Gillette, Falls County, Tex. Filed May 7, 1921, Serial No. 467,682. Renewed Sept. 29, 1923. 1 Claim. (Cl. 280—96.1.)



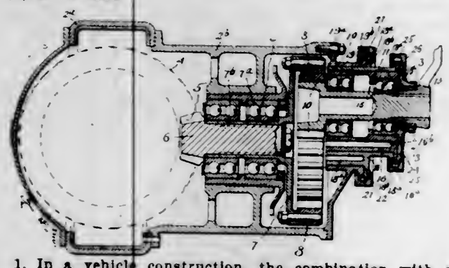
The combination of the forward axle of an automobile, knuckles connected to said axle and having spindles and also having arms, steering arms connected to and extending rearwardly from said arms of the knuckles and having at their rear ends and inner sides goosenecks terminating in forwardly and upwardly extending portions, a rod interposed between and pivotally connected to the ends of the said gooseneck portions, and steering means connected with said interposed rod.

1,477,169. SUPPORT FOR COLLAPSIBLE TUBES. FRANK N. GLOVER, Brooklyn, N. Y. Filed Apr. 18, 1922. Serial No. 555,455. 4 Claims. (Cl. 248—20.)



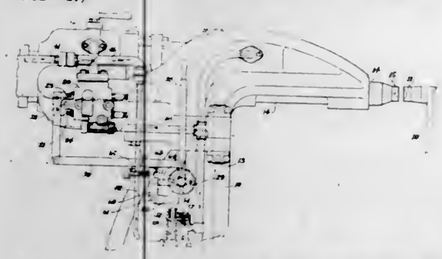
2. A device for the purpose specified, comprising a bracket constructed of a strand of wire arranged with a seat for the engagement of the neck of a collapsible tube to support said tube in an inverted position, with tooth brush engaging and supporting clips at opposite sides of the tube support, and with eyes for the engagement of attachment means to mount the bracket upon a support.

1,477,170. REAR-AXLE GEARING. GILBERT C. GOODE, East Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 9, 1922. Serial No. 605,839. 8 Claims. (Cl. 74—99.)



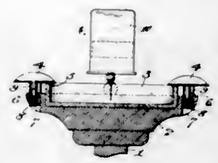
1. In a vehicle construction, the combination with a rear axle housing, live axles within the housing, a gear from which said live axles are driven, a pinion for driving said gear, a second gear to which the said pinion is secured to rotate therewith, a third gear which meshes with the second gear, a mounting for said third gear, the said mounting being adjustable with respect to the center line of the second mentioned gearing.

1,477,171. LEVER-LOCKING DEVICE FOR HYDRAULIC MACHINES. WILLIAM J. HAGMAN, Philadelphia, Pa., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 12, 1921. Serial No. 436,819. 10 Claims. (Cl. 161—1.)



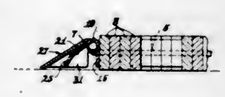
1. In a fluid operated machine, the combination of a frame, a cylinder thereon, a plunger in said cylinder, an operating lever controlling the admission of fluid to said cylinder to move said plunger, and pressure operated means associated with said lever and operated by the fluid supplied to the machine to hold said plunger in one of its operative positions for a predetermined time.

1,477,172. SMOKER'S SET. WILLIAM HANLEY, East Orange, N. J., assignor to Ferguson Brothers Manufacturing Company, Hoboken, N. J. Filed Dec. 27, 1920. Serial No. 433,351. 5 Claims. (Cl. 131—51.)



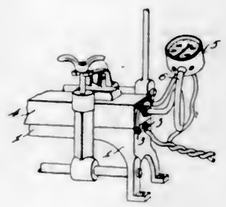
4. An ash tray, a support therefor, and cigar rests mounted on the support and projecting over the edges of the tray for securing it to the support, one or more of said holders being movable to release the tray and being provided with a depending lug projecting below the edge of the tray to prevent the unintentional movement of the rests.

1,477,173. MAT. ARTHUR C. HAYDEN, Brockton, Mass. Filed Oct. 31, 1921. Serial No. 511,799. 3 Claims. (Cl. 15—239.)



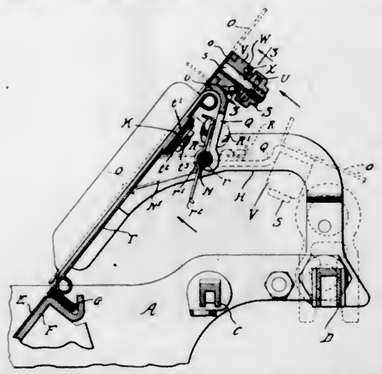
1. A mat comprising a checkerwork formed of blocks, rods inserted through said blocks and having loops at an edge of the mat, attaching elements secured to said loops and having hinge lugs projecting therefrom, and inclined tread members having wings with eyes receiving said lugs, that the tread members may rock on said hinge lugs down into engagement with the floor.

1,477,174. VULCANIZER. JAMES C. HEINTZ, Lakewood, Ohio. Filed Sept. 9, 1920. Serial No. 409,115. 6 Claims. (Cl. 219—19.)



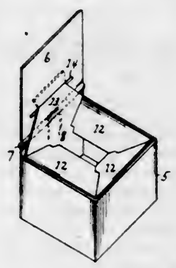
1. In a vulcanizer, the combination with a fluid tight chamber, of an electrically energized heating element disposed in operative relation to said chamber, means for automatically opening and closing the heating element circuit at predetermined temperatures of said chamber and additional circuit opening means interposed in said circuit and operated by temperatures in excess of those for operating said automatic means.

1,477,175. TYPEWRITING MACHINE. EDWARD B. HESS, Manhattan Beach, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 9, 1922. Serial No. 599,863. 5 Claims. (Cl. 197—143.)



1. A paper table having scale plate receiving openings near each end, and an intervening plate receiving recess in combination with a scale plate seated in said recess, having its opposite ends extending through the openings at the ends of the plate and provided with devices for securing its middle portion to the table.

1,477,176. SPUTUM-CUP HOLDER. EDWARD JOHNSON, East Orange, N. J., assignor to Meinecke & Company, New York, N. Y., a Corporation of New Jersey. Filed June 4, 1923. Serial No. 643,187. 4 Claims. (Cl. 4—274.)



1. A holder, adapted to contain a sputum cup, a hinged lid on the holder and a transverse slot in the lid and near the center thereof, to movably coact with the flap of a sputum cup.

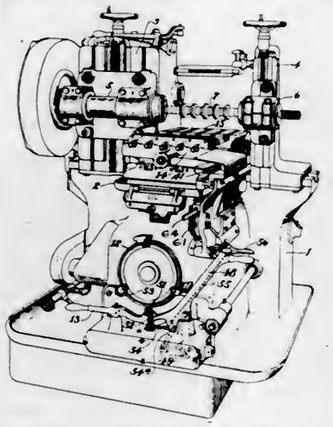
1,477,177. DENTIFRICE. RUDOLPH A. KUEVER, Iowa City, Iowa, assignor to Pepsodent Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 5, 1920. Serial No. 371,499. 4 Claims. (Cl. 167—9.)

1. A dentifrice comprising calcium phosphate, and dihydrated calcium sulphate.

2. A dentifrice comprising tri-calcium phosphate, acid calcium phosphate and dihydrated calcium sulphate.

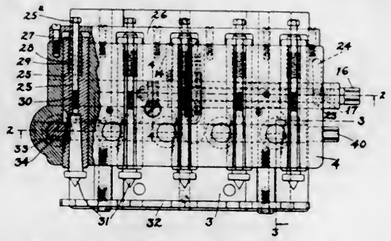
1,477,178. MILLING MACHINE. JERRY J. LA DUCER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 21, 1921. Serial No. 463,273. 21 Claims. (Cl. 90—56.)

1. In a metal working machine comprising a frame, a reciprocating table and a work spindle rotatably mounted on the table, an indexing mechanism for the spindle comprising the combination of a longitudinally movable plunger operatively connected to the spindle, a member on the frame adapted to be engaged by the plunger during the reciprocation of the table in one direction whereby the plunger is moved longitudinally



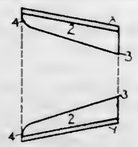
to index the spindle after each cutting reciprocation, and means for limiting the indexing movement of the spindle and for holding the spindle locked during the cutting operation.

1,477,179. TAILSTOCK. JERRY J. LA DUCER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 21, 1921. Serial No. 463,274. 12 Claims. (Cl. 90—23.)



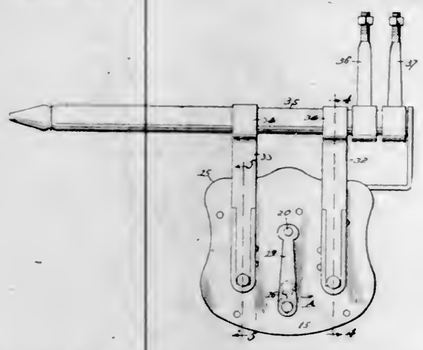
1. A tailstock comprising the combination of a base, a spindle-supporting member mounted on the base, a plurality of work-engaging spindles mounted in the member, a single controlling means for clamping and unclamping the spindles relative to the member, and means for bodily moving the member on the base longitudinally of the spindles.

1,477,180. SEED-CORN TIPPER. CHARLES F. LADWIG, Huntsville, Mo. Filed Nov. 16, 1920. Serial No. 424,521. 1 Claim. (Cl. 130—10.)



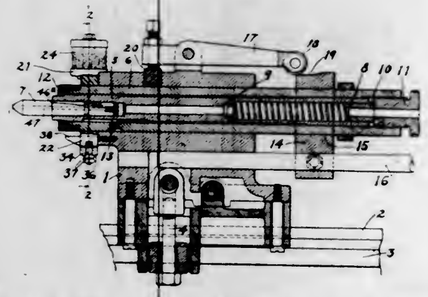
A device of the class described, consisting of a hollow, tapering metal body, having spaced ribs, of uniform size, on its inner face, converging toward the smaller end, of said body, said ribs, being of a height, at the smaller end of said body, approximately equal to the distance between the opposed ribs, located opposite each other.

1,477,181. LOCK. ANELLO MONTI, Meriden, Conn. Filed May 27, 1922. Serial No. 564,026. 3 Claims. (Cl. 70—14.)



1. In a lock, a bolt, a casing, a sliding lock bar in said casing, an arm pivoted on said bolt and having means adapted to be detachably engaged by said lock bar, a movable keyhole guard on the outside of said casing, a detent member rigidly secured to said keyhole guard for holding said arm, said detent member being adapted to be disengaged from said arm when said keyhole guard is moved into normal closed position.

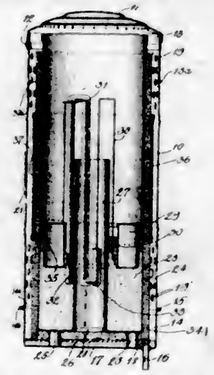
1,477,182. LUBRICATOR FOR TAILSTOCK CENTERS. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 27, 1921. Serial No. 464,911. 10 Claims. (Cl. 82—31.)



1. In a machine tool, the combination of a spindle, means for moving the spindle longitudinally, a lubricating pump, an oil conduit leading from the pump to the spindle, and means controlled by the longitudinal movement of the spindle and operative on the pump for discharging a quantity of oil from the pump to the spindle.

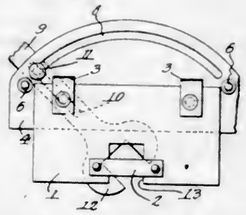
1,477,183. DEODORIZING APPARATUS. BENJAMIN NEWMAN, New York, N. Y. Filed Sept. 15, 1921. Serial No. 500,770. 1 Claim. (Cl. 299—22.)

A combined deodorizing and disinfectant device comprising a casing having a series of openings in the upper and lower portions thereof, a container supported within said casing spaced from the bottom and sides thereof, said container formed with a central upwardly extending tubular member open at both ends, an auxiliary container surrounding said first mentioned container above the bottom of the casing, a wick disposed about the lower portion of said container and depending below the bottom thereof, another wick disposed within said auxiliary container and extending above the top thereof, said wicks being disposed opposite the upper and lower series of openings, respectively, a float adapted to rest on the liquid in the container



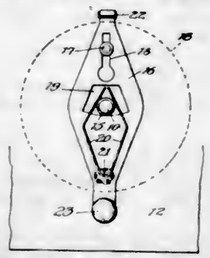
and carrying a wick extending from said float into the upwardly extending tube, and means permitting the gradual discharge of the fluid from the casing.

1,477,184. WRENCH. OTIS W. ORMSBY, Hill City, S. Dak. Filed Oct. 27, 1922. Serial No. 597,379. 4 Claims. (Cl. 81—55.)



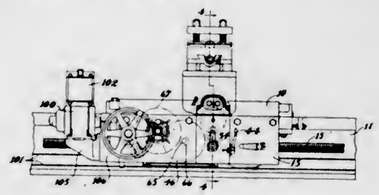
1. A wrench of the class described, comprising spaced plates, straps of suitable length to extend across the top of the rail on which the wrench is used, said straps being affixed to the spaced plates, one of the plates having an arcuate slot, said slot extending through an arc of approximately 90 degrees, a third plate riveted to said slotted plate said third plate having a similarly aligned slot, a wrench handle, and a bolt extending through the wrench handle and through the slots in the aforesaid slotted plates, the bolt being slidable in the slots to permit of manual operation of the wrench.

1,477,185. DIAL ADJUSTER. CARL PFANSTIEHL, Highland Park, Ill., assignor to Pfanstiehl Radio Service Co., a Corporation of Illinois. Filed July 23, 1923. Serial No. 653,171. 6 Claims. (Cl. 74—7.)



6. An adjuster for dials comprising a lever adapted to lie between the dial and panel and having one portion extending beyond the dial by which the lever may be moved, another portion of said lever adapted to make driving contact with the dial when the last-named portion is moved in one direction by the first mentioned portion, said dial being then rotatable by motion of the lever in a plane parallel to the dial.

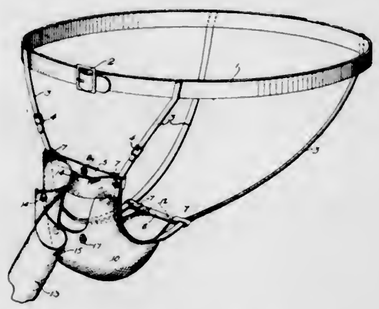
1,477,186. LATHE-TOOL CARRIAGE. CLIFFORD F. RANDOLPH, Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed July 6, 1920. Serial No. 394,198. 21 Claims. (Cl. 82—21.)



1. Motor driving means for a lathe tool carriage comprising in combination, a carriage, an extension therefor, a bracket attached to said extension, a motor mounted on said bracket, motor driving means in said carriage and extension including speed reducing means between said motor and carriage, and means to disconnect said motor from a part of said speed reducing means.

10. A lathe tool carriage comprising in combination, an apron, said apron containing driving connections operated by a rotating shaft to move said carriage laterally, and an independent motor driving means detachably attached to said apron and having driving connections with said carriage, whereby said carriage may be moved laterally independently of said rotating shaft.

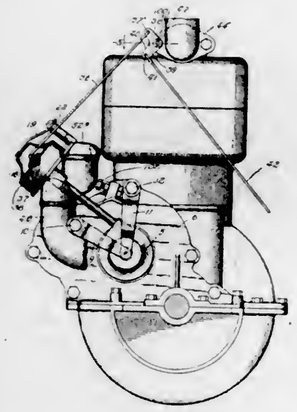
1,477,187. SURGICAL APPLIANCE. JOHN F. RAYNE, New York, N. Y. Filed Jan. 14, 1922. Serial No. 529,177. 8 Claims. (Cl. 128—161.)



1. In a device of the character described, a belt, perineal straps attached thereto and members connected between the straps and each independently adjustable therealong.

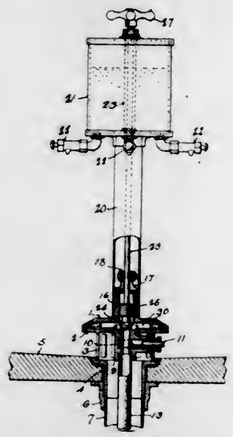
1,477,188. INTERNAL-COMBUSTION-ENGINE EQUIPMENT. GUSTAF A. SAFSTROM, Chicago, Ill. Filed Nov. 20, 1922. Serial No. 602,005. 6 Claims. (Cl. 123—146.5.)

1. In combination with a motor of the Ford type, an extension timer applied to the casing of the motor at the outer end of the cam-shaft thereof, the contacts of said extension timer relative to which the rotary contact thereof moves being adjustable about said rotary contact, and means for adjusting said first-referred-to contacts comprising a lever fulcrumed on a pivot device secured in the openings in the motor casing and in



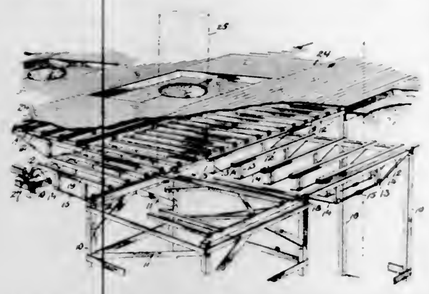
one side of the flange of the water-connection as provided in the motor and substituted for the securing device located in said openings.

1,477,189. LAVATORY. LOUIS SCHLESINGER, Milwaukee, Wis., assignor to Bradley Wash-Fountain Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 18, 1922. Serial No. 582,738. 8 Claims. (Cl. 4—191.)



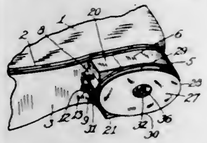
1. In a lavatory the combination of a bowl having a waste outlet from the lower part thereof; a fountain head having an annular discharge adapted to supply a falling shower of water within the bowl, a water inlet connection provided with a valve seat, and a stuffing box above and in alignment with the valve seat; and a valve adapted to cooperate with said seat for controlling the supply of water to the annular discharge of the fountain head and for regulating the shower, and provided with an operating stem extending upward within the annular discharge through the stuffing box and accessible to users around the bowl.

1,477,190. SCAFFOLDING FOR CENTERING AND THE LIKE. JOSEPH R. SHORE, Newark, N. J., assignor to American Concrete Steel Company, Newark, N. J. Filed Apr. 23, 1921. Serial No. 463,880. 2 Claims. (Cl. 304—2.)



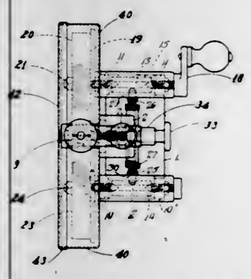
1. A scaffolding for supporting centering comprising uprights, readily removable trussed girders of non-collapsible form supported on the tops of the uprights, and readily removable trussed beams of non-collapsible form supported at their ends on the girders, said structure permitting the placing of the uprights only on the footings of columns, and centering arranged on said beams to hold a cement floor thereon and to prevent said cement from contacting with the beams or girders.

1,477,191. REVERSIBLE CUSHION SHOE HEEL. AURELIUS SMITH, Indianapolis, Ind. Filed May 19, 1922. Serial No. 562,230. 4 Claims. (Cl. 36—36.)



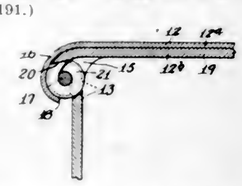
1. A reversible shoe heel including a casing part having opposite forward and rearward wall portions that have curved inner sides, the forward wall portion having two projections spaced apart on the outer side thereof, the projections having approximately plane outer faces.

1,477,192. SHARPENER FOR PENCIL LEADS. CHARLES SONNEBORN, West Pittsburg, Pa. Filed May 15, 1922. Serial No. 560,894. 6 Claims. (Cl. 120—95.)



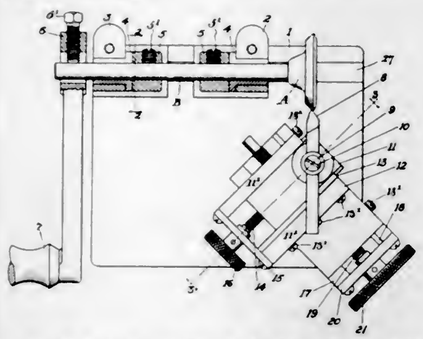
6. A sharpening device for pencil leads comprising a base, a vertical standard thereon, a pair of spaced arms pivoted to the base at opposite sides of the standard, a shaft journaled in each of the arms, gears fixed to the adjacent ends of the shafts, a circular cutting disk abutting each of said gears also fixed to the shafts, the cutting disks being arranged tangentially of each other so as to provide a pass therebetween, a spring for constantly but yieldingly urging the arms toward each other causing engagement of the gears, pins slidably mounted in the standard contacting the same to limit their movement under the tension of the spring, means for simultaneously and correspondingly adjusting the said pins to vary the width of the pass, a vertically adjustable guide in alignment with the pass, and means for rotating the said shafts.

1,477,193. HINGE. JOSEPH SOSS, Brooklyn, N. Y. Filed June 23, 1922. Serial No. 570,...6. 7 Claims. (Cl. 16—191.)



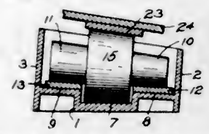
5. A hinge butt of the class described comprising a body portion one end of which is fashioned to form a substantially semi-circular hollow portion having top and bottom walls through which the usual pivot pin is adapted to pass, and means for reinforcing the semi-circular hollow portion of the hinge butt comprising a tubular bearing member formed independent of and secured to said hinge butt.

1,477,194. VALVE LATHE. EDWARD A. STACK, Bristol, Conn. Filed Mar. 3, 1922. Serial No. 540,752. 3 Claims. (Cl. 82—1.)



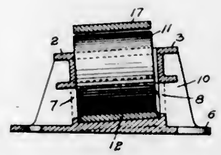
1. A valve lathe comprising a base member, standards thereon supporting split bushings in which a valve stem is adapted to fit, means for holding said valve stem against endwise movement, a support carried by said base, a block slidably carried by the support, a second block slidably carried by the first block, and a cutting tool adjustably carried by the second block.

1,477,195. ROLLER SIDE BEARING. ARNOLD STUCKI, Pittsburgh, Pa. Filed Feb. 28, 1922. Serial No. 540,021. 3 Claims. (Cl. 64—64.)



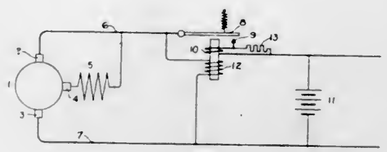
1. A side bearing for railway cars comprising a cage having inner and outer side walls, end walls, and a bottom wall the floor of which has a depressed central portion and inner and outer lateral bearing portions adjacent the inner and outer side walls respectively, a free roller provided with trunnions resting at all times upon the lateral bearing surfaces, the diameter of the body of the roller being such as to contact the depressed floor portion only when in its centered position and the outer lateral bearing portion being disposed at a higher elevation than the inner one whereby to cause the said roller to normally tend towards the said inner side wall.

1,477,196. ROLLER SIDE BEARING. ARNOLD STUCKI, Pittsburgh, Pa. Filed May 12, 1922. Serial No. 560,335. 3 Claims. (Cl. 64—64.)



1. A side bearing for lower bolsters of railway cars comprising a housing having its bottom forming a bearing surface and provided with side and end walls, a free roller in the housing and resting on the bearing surface, the entire width of said bearing surface being inclined downwardly towards the inner side wall, whereby the roller will tend towards the said inner side wall.

1,477,197. STORAGE-BATTERY SYSTEM. RAYMOND H. SULLIVAN, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed July 26, 1922. Serial No. 577,592. 1 Claim. (Cl. 171—313.)

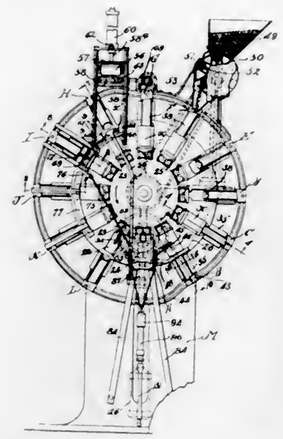


In a storage-battery system comprising a generator, a storage-battery connected in circuit therewith to be charged thereby, and a reverse-current cut-out interposed in the connections between the generator and the battery and provided with a winding in series with its contacts, the combination, with the cut-out, of a conductor connected in parallel with said winding and having relatively high resistance but low impedance with respect to the recurrent fluctuations in current due to commutation in the generator.

1,477,198. BAG-FILLING MACHINE. GEORGE WAINWRIGHT, Boston, Mass. Filed Jan. 15, 1923. Serial No. 612,598. 53 Claims. (Cl. 226—49.)

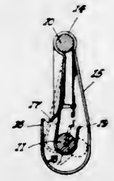
1. In a machine of the character described, a movable carrier disk, means retaining bags in face engagement with said disk, and means for opening and filling the bag while supported on said disk.

19. In a bag filling machine a circular carrier disk having a plurality of openings therein, a spring pressed gripper member adjacent each of said openings, and means recurrently advanced through the openings for moving at least one of said members to inoperative position.



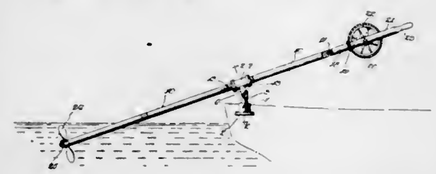
24. In a bag filling machine, a circular carrier disk, a funnel slidably mounted on said disk, and cam means for moving said funnel relative to said disk.

1,477,199. SAFETY PIN. NEAL L. WEARE, Milwaukee, Wis. Filed June 27, 1921. Serial No. 480,620. 2 Claims. (Cl. 24—161.)



1. The improved safety pin comprising a shank and a pin connected at one end, a cap attached to the other end of the shank and provided with a socket for the entry of the point of the pin, a guard for preventing accidental displacement of the pin, such guard comprising a leg depending from the cap and formed as a hook which lies within the said socket, and normally held from engagement with the walls thereof.

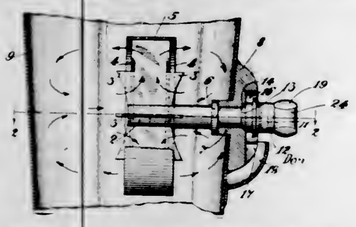
1,477,200. BOAT PROPELLER. ROBERT R. WHITING, Darien, Conn. Filed Jan. 30, 1923. Serial No. 615,892. 1 Claim. (Cl. 115—18.)



A boat-propelling mechanism comprising a socket member to be secured upon the boat, a post rotatably fitted in said socket and having an annular groove near its lower end, retaining devices mounted in the wall of the socket

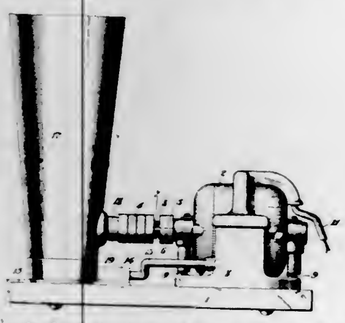
and engaging the annular groove in the post and adapted to secure the post in a set position in the socket, a bearing sleeve having depending straps disposed at opposite sides of and pivotally secured to the upper end of the post, means for securing said straps in a set position relative to the post, a shaft journaled in and extending through said sleeve, a propeller carried by the rear end of the shaft, and means at the front end of the shaft for rotating the same.

1,477,201. SHROUDED AGITATOR. DONALD R. MCKILLICAN, New York, N. Y., assignor to Mechanical Mixers Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 7, 1921. Serial No. 459,238. 2 Claims. (Cl. 259—96.)



1. An agitator provided with a shaft, and having intake openings in both sides of the agitator at the shaft for entrance of the materials to be agitated, a flow guide member surrounding each of the intake openings and a shroud member mounted at the periphery of the agitator to rotate therewith and to deflect the direction of flow of the materials.

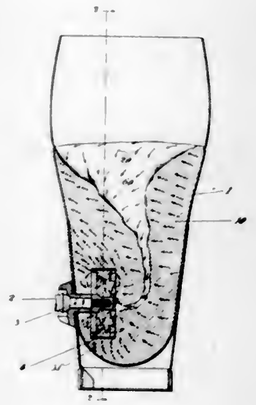
1,477,202. DRINK MIXER. DONALD R. MCKILLICAN, New York, N. Y., assignor to Mechanical Mixers Corporation, New York, N. Y., a Corporation of Delaware. Filed May 31, 1921. Serial No. 473,738. 2 Claims. (Cl. 259—110.)



1. A soda fountain drink mixer consisting of a base, a motor having a laterally extending shaft and mounted on the base, a clutch member mounted on the shaft, a spring-opening switch at the motor having an operative projection and a shaker cup having a mating clutch member designed to be slid laterally onto the base by an operator and to first automatically establish driving relation between the two clutch members and subsequently to close the switch against the spring.

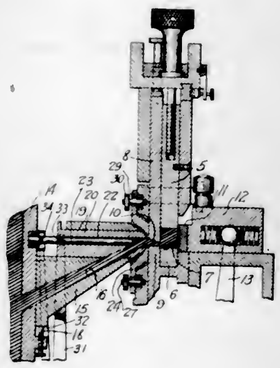
1,477,203. METHOD OF MIXING. DONALD R. MCKILLICAN, New York, N. Y., assignor to Mechanical Mixers Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 25, 1922. Serial No. 539,200. 4 Claims. (Cl. 259—96.)

1. The method of mixing, which consists of rotating and mixing a portion of a mix around an axis other than vertical and producing a vortex in another portion of the mix, with a curved axis substantially concentric



with the first mentioned axis at its lower end and substantially vertical at its upper end.

1,477,204. NOZZLE MECHANISM. SUNKER ABAJI BISEY, New York, N. Y. Filed Oct. 30, 1920. Serial No. 420,654. 14 Claims. (Cl. 22—70.)

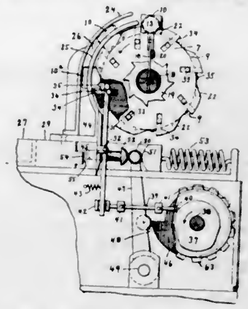


1. The combination with a type casting mold provided with a mold chamber having a gate opening in one wall thereof, of a metal charging nozzle, a nipple plate movably interposed between said nozzle and the gate wall of the mold chamber, and means for reciprocating the nozzle with respect to the nipple plate.

1,477,205. ASSEMBLY MECHANISM. SUNKER ABAJI BISEY, New York, N. Y. Filed Jan. 3, 1921. Serial No. 434,565. 18 Claims. (Cl. 199—95.)

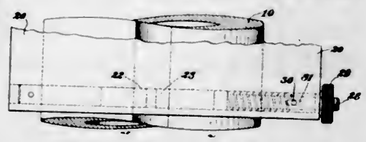
1. In apparatus of the character described, a rotating drum having longitudinally extending channels to each receive a row of type or the like, means for feeding the type lengthwise of the drum into said channels, means

for automatically releasing said drum as each channel is filled to permit rotation of the drum under the weight



of the type and means for automatically discharging a row of the type when each channel reaches a predetermined position.

1,477,206. WORK SUPPORT FOR MEASURING MACHINES. BRYANT H. BLOOD, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 3, 1921. Serial No. 519,732. 11 Claims. (Cl. 33—125.)



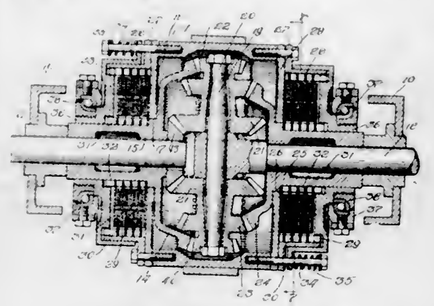
1. A work support for measuring machines comprising in combination, a member having a flat upper surface and a lower surface adapted to engage the base of a measuring machine, oppositely extending securing means provided in said member engaging opposed surfaces provided on said base, and means to operate said securing means to clamp or unclamp said member.

1,477,207. PIPE CLEANER. FREDERICK S. BROWN, Torrington, Conn. Filed May 21, 1921. Serial No. 471,329. 4 Claims. (Cl. 131—13.)



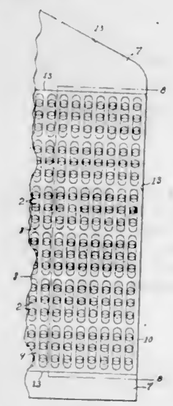
4. A pipe cleaning implement comprising a resilient wire, said wire being crimped in different directions for a portion of its length adjacent one end thereof to provide a plurality of spaced cleaning points on different sides of the wire, said wire being also provided at said end with means for holding a cleaning swab.

1,477,208. TRANSMISSION GEARING FOR MOTOR VEHICLES. NELS BOHLIN and SVEN FORNER, Chicago, Ill. Filed Nov. 5, 1921. Serial No. 513,091. 4 Claims. (Cl. 74—34.)



1. In transmission gearing, a motor shaft, a gear fixed thereto, a second gear rotatably journalled on said shaft, a cross shaft, gears mounted thereon and engaging the gears mounted on the motor shaft, a transmission shaft secured to the cross shaft, a gear rotatably journalled on the transmission shaft and engaging the gears mounted on the cross shaft, a casing surrounding the gearing, and means for independently or simultaneously preventing rotation of said gears journalled on the motor and transmission shafts relative to the casing.

1,477,209. RADIATOR FOR AUTOMOBILES. WILLIS BYRON COWAN, Colorado Springs, Colo., assignor of one-fourth to George Henry De Vore, Colorado Springs, Colo. Filed May 5, 1919. Serial No. 294,912. 5 Claims. (Cl. 257—128.)

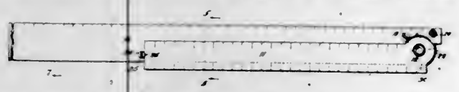


1. In a radiator of the class described, a combination of front and rear expandible face plates, a plurality of flattened compressible air tubes secured to and extending thru said face-plates and at an angle thereto both upright and horizontal corrugations in said face plates, and spirally formed flat fins extending through said air tubes.

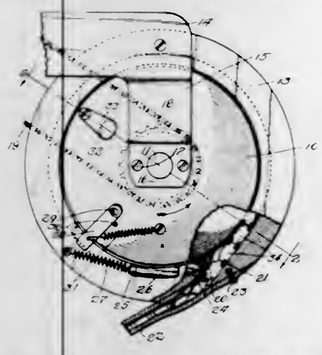
1,477,210. SQUARE. ISAIE DION, Swansea, Mass. Filed Mar. 18, 1922. Serial No. 544,854. 7 Claims. (Cl. 33—117.)

5. A square comprising a blade and tongue members, one of said members being provided with a bevelled

round projection at its end with its center between the side edges of the member adapted to fit into a correspondingly shaped recess in the other member of the square, and a pivot member concentric with the rounded projection for securing the members together.

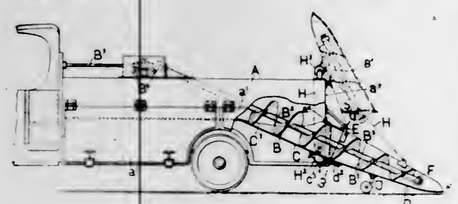


1,477,211. FEEDING DRUM. JOHN DLESK, Berwyn, Ill., assignor to U. S. Ball Bearing Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 6, 1922. Serial No. 550,236. 3 Claims. (Cl. 78—46.)



1. A drum for feeding articles having flattened substantially parallel faces, means for rotating said drum, an annular opening in the periphery of said drum normal to the axis of the drum, an annular ring surrounding said drum and having an internal groove registering with said opening, means for agitating the articles at the opening into said passage and a passage leading from said internal groove, whereby when said drum is turned with respect to the annular ring, said articles will pass edgewise through said opening into the groove and out through said passage.

1,477,212. APPARATUS FOR LOADING MOTOR VEHICLES. HEINRICH ECKRATZ, Essen-Rellinghausen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Apr. 26, 1921. Serial No. 464,689. 4 Claims. (Cl. 37—4.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A vehicle having in combination a closed receptacle and a screw conveyer for loading the vehicle, said conveyer entering the receptacle near the bottom thereof and being provided with a stationary casing at its point of entrance, whereby the forcing action of the conveyer on the load combined with the restraining action of the walls of the container effects a complete filling of the container.

1,477,213. METAL DOOR. ARTHUR J. ENGMAN, Canton, Ohio. Filed May 24, 1922. Serial No. 563,227. 3 Claims. (Cl. 189—51.)



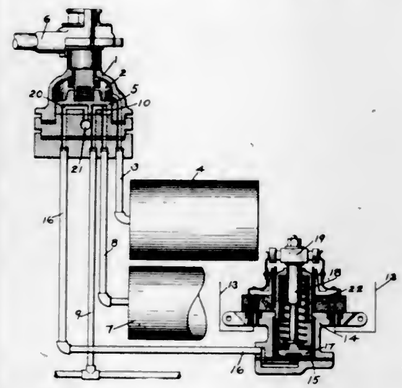
1. In a metal door, a binder secured at its central portion to the stile of said door, the edges of said binder being spaced from said stile, a panel moulding having its edge inserted in the space at one end of said binder and a silencer and shell therefor having their edges inserted in the space at the opposite edge of said binder and being secured in position by said binder.

1,477,214. METAL DOOR. ARTHUR J. ENGMAN, Canton, Ohio. Filed May 24, 1922. Serial No. 563,228. 2 Claims. (Cl. 189—51.)



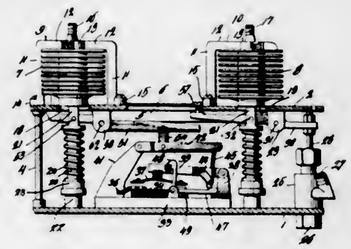
1. In a device of the character described, a sheet of metal bent to form a stile, a pair of binders secured to the opposite, inner walls of said sheet, a strip secured by said binders and bent to form one half of a panel moulding, one side of said sheet being extended and forming the opposite half of said panel moulding.

1,477,215. SPEED-GOVERNING-SWITCH DEVICE. CLYDE C. FARMER, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Feb. 7, 1921. Serial No. 442,941. 6 Claims. (Cl. 303—12.)



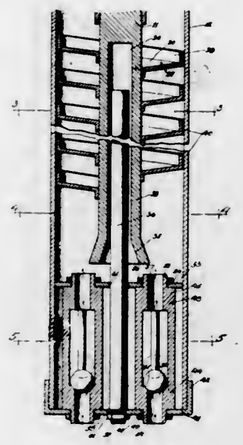
1. In a fluid operated brake system, the combination with a brake valve device for controlling the brakes, of a fluid pump for the brake system and means operated in the release position of the brake valve device for causing the pump to operate at high speed.

1,477,216. AUTOMATIC CONTROL. JOHN F. FAUST, Wapakoneta, Ohio, assignor to New Way Laboratories Company, Greenville, Ohio, a Corporation of Ohio. Filed Nov. 18, 1920. Serial No. 425,024. 1 Claim. (Cl. 200—140.)



In combination, a frame comprising spaced superimposed plates, a pair of heat responsive elements mounted on the upper plate, a lever pivotally mounted on the under surface of the upper plate below each heat responsive element so that their inner ends will overlap, means on ane lever for regulating the normal distance between the inner ends of the levers, said upper plate provided with an apertured registering with said means so that it may be regulated, and a switch mounted on the lower plate and connected to one of said levers.

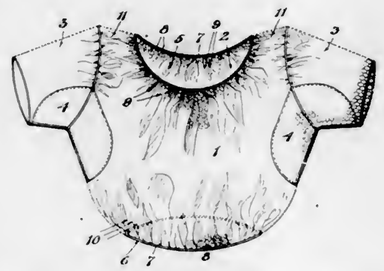
1,477,217. OIL-WELL PUMP. JOSEPH SILVANO FELIZ, Concepcion, Calif. Filed Apr. 4, 1921. Serial No. 458,216. Renewed Apr. 27, 1923. 5 Claims. (Cl. 103—90.)



1. In pumping apparatus, a tubing, a helical piston operating therein, and means operating to reciprocate and rotate said piston.

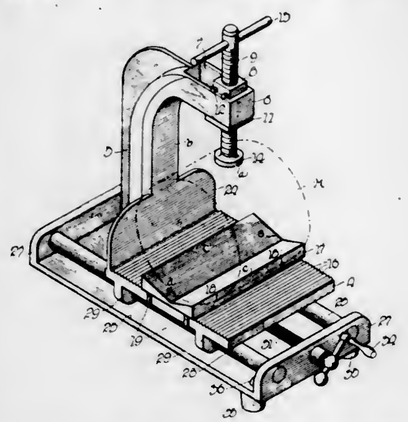
1,477,218. GARMENT. VICTOR GUINZBURG, New York, N. Y., assignor to I. B. Kleinert Rubber Company, New York, N. Y., a Corporation of New York. Filed Feb. 8, 1922. Serial No. 535,085. 2 Claims. (Cl. 2—98.)

1. An article of the class described comprising a garment having a body of an open-work netted material, said garment having neck, waist and arm openings, sleeves of open-work netted material secured to said



body at said arm-openings, and shields secured in said sleeves and in the armpit portions of said garment body.

1,477,219. CLAMP. ALBERT J. HALVORSEN, Chicago, Ill., assignor to Oliver E. Becker, Chicago, Ill. Filed Dec. 8, 1919. Serial No. 343,440. 14 Claims. (Cl. 29—89.)



1. In a universal clamp, clamping members affording a plurality of clamping points circumscribing a closed geometrical figure, and adjusting means for permitting translational motion in the longitudinal plane of said clamp of certain of said clamping points and radial motion relative to the geometrical center of said figure of one of said clamping points for modifying the size and formation of said figures.

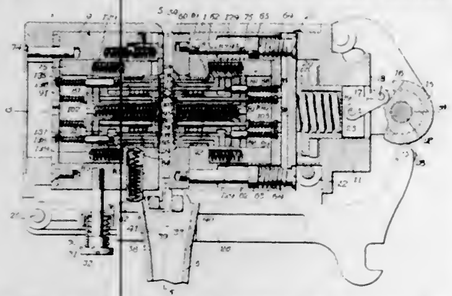
1,477,220. ARTICLE FOR REMOVING STAINS. CATHERINE M. HEMEN, Washington, D. C. Filed Dec. 9, 1920, Serial No. 429,354. Renewed May 31, 1923. 2 Claims. (Cl. 87—5.)

1. A stain remover comprising oxalic acid and a carrier therefor of paraffin.

1,477,221. COIN SELECTOR. ERNST V. HILL, Worcester, Mass., assignor, by mesne assignments, to E. A. W. Jefferies, Willard A. Winn, Nils Bjork, M. Clifton Nelson, and William J. Denholm, trustees, all of Worcester, Mass. Filed Nov. 9, 1918. Serial No. 261,797. 28 Claims. (Cl. 194—97.)

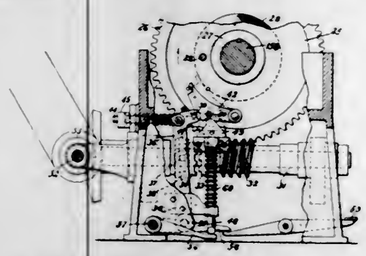
1. In a coin selector, the combination with calipering members adapted to engage the two faces of a coin, for

measuring the accumulative relief of groups of points at selected locations on said faces, and means responsive



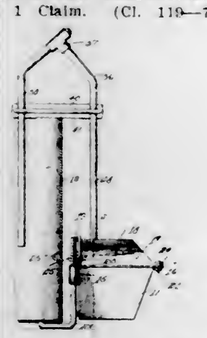
to the movement of said members for procuring the acceptance or rejection of said coin.

1,477,222. CONTROLLING MECHANISM. CHARLES E. HOPKINS, Plainfield, N. J.; The Plainfield Trust Company administrator of said Charles E. Hopkins, deceased. Original application filed Feb. 25, 1911, Serial No. 610,834. Divided and this application filed July 12, 1920. Serial No. 395,559. 11 Claims. (Cl. 192—24.)



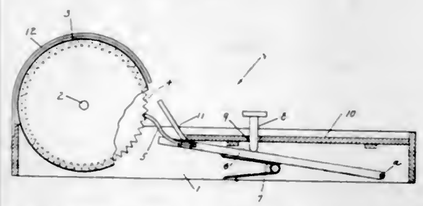
6. The combination with a driving shaft and a second shaft, of a clutch having jaws for connecting said shafts, a member rotatable with the second shaft, a shifting yoke for operating said clutch, a latch on the rotatable member in a position to engage and operate the shifting yoke at each rotation of the rotatable member to force the jaws of the clutch out of engagement with each other, resilient means for holding the yoke normally in its engaging position and a trip mechanism for disengaging the latch.

1,477,223. STOCK-WATERING FOUNTAIN. AUGUST G. D. KREY, Wagner, S. Dak. Filed Dec. 30, 1922. Serial No. 609,952. 1 Claim. (Cl. 119—79.)



The combination with a supply tank, an auxiliary tank, and a siphon having one leg in the supply tank and the other leg in the auxiliary tank, of a bracket in the auxiliary tank supporting the lower end of the said other leg, a float lever in the form of a yoke in the auxiliary tank and having one end pivotally connected with the said bracket, a stem disposed loosely through the bight of the yoke, a conical member on the stem and having its apex resting on the said bight, and a valve disk on the larger end of the conical member for closing the said other leg of the siphon.

1,477,224. GAME BOARD FOR BASEBALL. LEONARD D. KROFF, Sterling, Ill., assignor to First Trust and Savings Bank of Sterling, Sterling, Ill., a Corporation of Illinois. Filed Apr. 20, 1920. Serial No. 375,211. 15 Claims. (Cl. 46—63.)



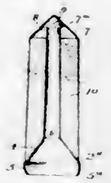
8. In a game apparatus embodying a frame and cylinder rotatable in one end thereof, a toothed wheel on one end of the cylinder; a lever having a tooth engaging said toothed wheel; spring means for normally holding the lever in raised position with its tooth engaged with the wheel; and means for manually depressing the lever so as to disengage it from the toothed wheel and cause the cylinder to spin, the lever reengaging and locking the wheel when released.

1,477,225. WEATHER STRIP. LOUIS A. MACKLANBURG, Oklahoma, Okla. Filed May 9, 1923. Serial No. 637,860. 1 Claim. (Cl. 20—69.)



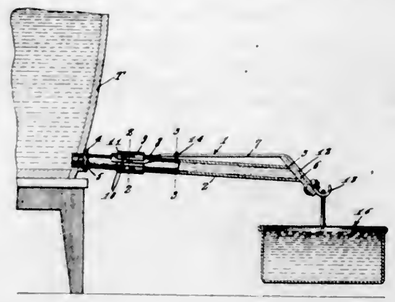
An improved weather-strip of resilient sheet metal comprising a strip bent longitudinally to form two spaced plane faces substantially parallel and a third plane face intermediate and connecting the same, one of said parallel faces constituting the attachment face and the other formed with a plurality of outwardly directed beads and having its free edge turned outwardly.

1,477,226. MEASURING CONTAINER FOR DENTAL ALLOYS OR THE LIKE. CHARLES WILBUR MEGUIAR, Sonora, Ky. Filed Feb. 8, 1917. Serial No. 147,509. 5 Claims. (Cl. 221—98.)



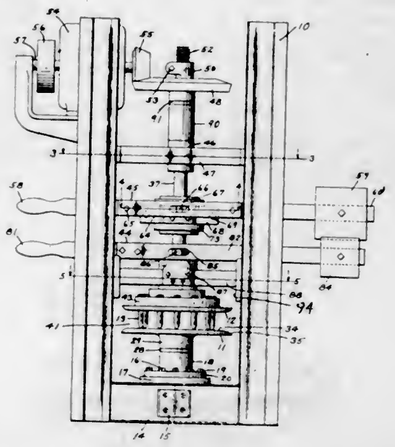
1. A capsule for dental alloys and the like comprising a tubular member having a base or bottom and a cone-shaped closed upper end, said base or bottom being adapted to support the capsule in upright position, and an internal tube projecting upwardly from said base and terminating short of said upper closed end, said internal tube being open at its top and bottom, and the lower end of the tube having an opening constituting an outlet from the container.

1,477,227. AUTOMATIC DRIP FAUCET. LOUIS P. MEISTER, Troy, Mo. Filed July 14, 1922. Serial No. 575,010. 2 Claims. (Cl. 137—68.)



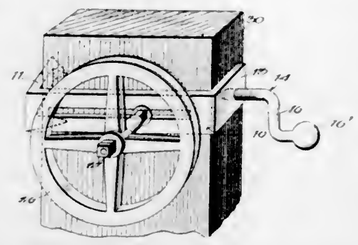
2. A device of the class described comprising a pipe having means at one end for connection with a water supply and its other end beveled, a spring arm secured at one end to said pipe and having its other end bent at an obtuse angle, said bent end carrying a closure for the beveled end of the pipe, and having means to detachably support a water receptacle.

1,477,228. STRIP-COILING MACHINE. JOSEPH BUSER MOYER, New Britain, Conn. Filed July 23, 1921. Serial No. 487,158. 7 Claims. (Cl. 153—64.)



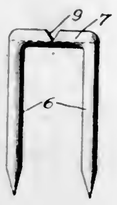
1. A strip coiling machine comprising a frame, a plate operatively supported in said frame for free rotation, a second plate opposed to said first plate and separated therefrom by a coil receiving space, a shaft connected to said second plate, a pin carrier superimposed on said second plate, coil engaging pins supported by said carrier, projecting through holes in said second plate and slidable therein, and extending into said space, bearing devices for said shaft, adjusting means engaged with said shaft for determining the normal separation of said plates, hand-operated means engaged with said shaft for moving said second plate away from the normal position so as to increase such separation of the plates and operative to simultaneously move said carrier and pins, and other hand-operated means engaged with said carrier for moving said pins outward and away from said space independent of said first-mentioned hand-operated means.

1,477,229. BRACKET FOR MOUNTING PULLEYS. GEORGE RAYMOND NORTHRUP, Laramie, Wyo. Filed Aug. 8, 1921. Serial No. 490,579. 3 Claims. (Cl. 254—190.)



1. In combination, a U-shaped bracket member, means by which said bracket may be detachably secured to a support, a slot in the bridge portion of said bracket, a pin having its one end extending through said slot and adjustably secured against movement, and a pulley journaled on the outer end of said pin.

1,477,230. SECURING MEANS FOR HEELS. MARTIN PANIAN, Eveleth, Minn. Filed Mar. 14, 1922. Serial No. 543,747. 2 Claims. (Cl. 85—49.)



1. A staple including legs and a bridge connecting the legs, the bridge being provided on its outer surface with a grooved longitudinal seat.

1,477,231. ERASER AND PENCIL HOLDER. JOHN M. ABRAMS, Brooklyn, N. Y. Filed Aug. 23, 1921. Serial No. 494,614. 3 Claims. (Cl. 120—21.)

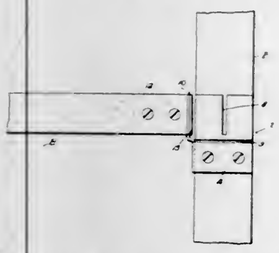


2. A holder of the character described, comprising a pair of pivotally connected, semi-tubular members adapted to receive at the pivoted end a rubber eraser and at the other end a pencil, said ends being adapted to close about the respective articles, and the end surfaces of the members at the eraser end being cut away to permit removal of the eraser when said members are separated, and means at the pencil end to hold said members in clamping position.

1,477,232. FASTENING DEVICE. FRANK E. AID, Chillicothe, Ohio. Filed Sept. 13, 1921. Serial No. 501,219. 3 Claims. (Cl. 304—32.)

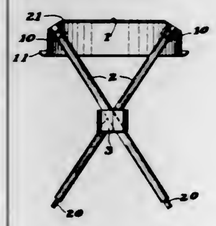
1. A fastener of the class described, comprising a member having a plurality of outwardly lateral offsets disposed in angularly related planes said offsets being slotted,

said slots extending through the free edges of said offsets, a cooperating fastening member composed of a strip of metal folded midway of its ends to form a shank and



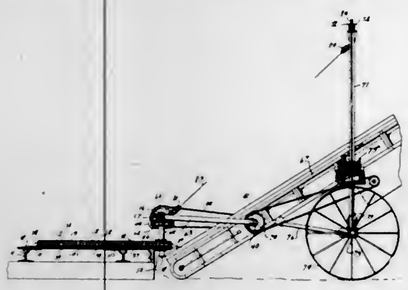
having the terminals thereof extending laterally in opposite directions to form a double thick head, adapted to enter a slot in the other member for detachably connecting said members.

1,477,233. COLLAPSIBLE STOOL. EDWARD ALEXANDER, Seattle, Wash. Filed Nov. 14, 1922. Serial No. 600,959. 2 Claims. (Cl. 155—41.)



1. A knock-down seat comprising a basin-like seat member having a leg-securing means distributed about the outer edge of its bottom and consisting of hollow thimbles integral with the body of the basin and legs at one end adapted to enter the thimble and at its other end to fit over the thimble.

1,477,234. CONVEYER AND DRIVING MECHANISM THEREFOR. FRANKLIN E. ARNDT, Galion, Ohio, assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio, a Corporation of Ohio. Filed Nov. 4, 1922. Serial No. 599,077. 19 Claims. (Cl. 198—8.)



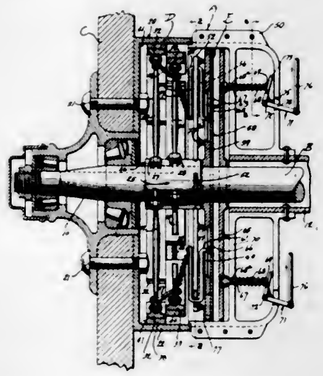
1. A conveyer mechanism including a plate, a pair of endless conveyers operating thereover and driving means therefor including a pair of shafts having detachable driving engagement each with one of said conveyers, a driving shaft common to both of said first named shafts and geared thereto, and a frame supporting said driving shaft and the first named shafts in driving relation with the driving shaft and in parallel relation to each other whereby the driving shaft and the first named shafts may be engaged with or disengaged from the endless conveyers as a unit.

1,477,235. NECK CHAIN. FREDERICK A. BALLOU, Jr., Providence, R. I., assignor to B. A. Ballou & Company Inc., Providence, R. I., a Corporation of Rhode Island. Filed July 20, 1921. Serial No. 486,067. 3 Claims. (Cl. 63—2.)



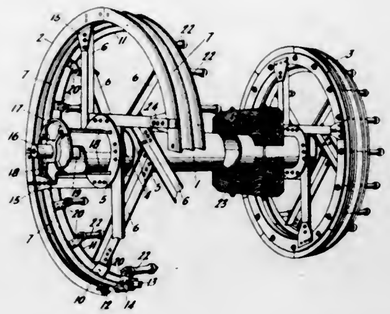
1. The combination with a neck chain, of a clutch casing slidably mounted thereon, the said casing being provided with openings through it through both of which one part of the chain loosely extends and a member of a size equal to the upper of said openings loosely suspended in said casing by an end of the chain connected to the member through said opening whereby a pull upon the said part of the chain above said casing causes said member to lift and automatically grip and lock the first said part of the chain against the wall of said casing.

1,477,236. GEARLESS DIFFERENTIAL. EDWARD M. BELL, Mill Spring, N. C. Filed May 4, 1922. Serial No. 558,441. 7 Claims. (Cl. 192—50.)



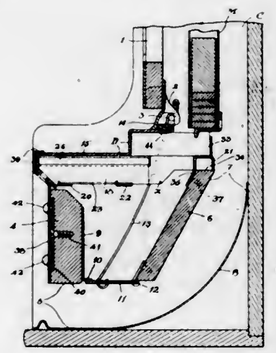
1. A device of the class described comprising a drive member, clutch shoes arranged in sets, arms tangentially pivoted to said drive member and inclining in one direction peripherally thereof for supporting one set of clutch shoes, and a second set of arms tangentially pivoted to said drive member to incline in a direction opposite to the inclination of said first mentioned arms for supporting said second set of shoes in a different plane from the first mentioned set of shoes.

1,477,237. BULL-WHEEL STRUCTURE FOR DRILLING RIGS. RICHARD R. BLOSS, Columbus, Ohio, assignor to The International Derrick & Equipment Company, Columbus, Ohio, a Corporation of Ohio. Filed Feb. 19, 1923. Serial No. 619,928. 2 Claims. (Cl. 64—17.)



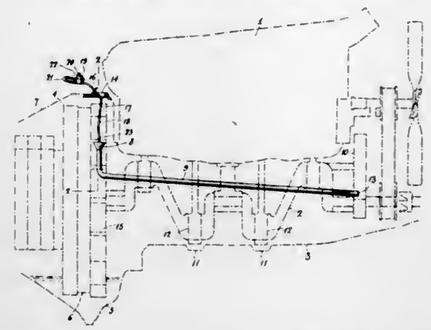
2. A tug rim for oil, gas, and artesian well drilling rigs having a corrugated surface and having one of its sides sloped at an angle of substantially 45°.

1,477,238. VENDING MACHINE. JOHN BRANDT, New York, N. Y., assignor to Autosales Corporation, Long Island City, N. Y., a Corporation of New York. Filed Nov. 21, 1922. Serial No. 602,410. 8 Claims. (Cl. 211—8.)



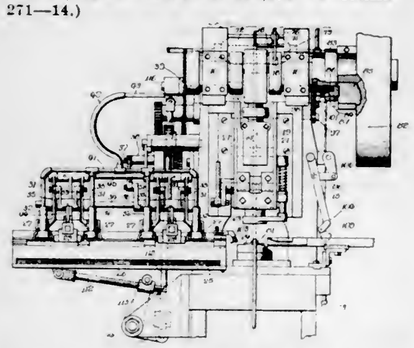
1. In a vending machine, an outer casing, a plurality of upright magazines mounted therein, a cross-piece in said casing below said magazines, a main framework mounted between the sides of said casing and having a rear extension supported on said cross-piece, said framework being provided with pairs of flanges running substantially parallel with the sides of the casing, a unitary framework supported between each pair of said flanges substantially in alignment with one of said magazines, each unitary framework having a pair of rearwardly extending side plates adapted to rest on said rear extension, whereby said unitary frameworks are directly supported entirely on said main framework side by side independently of each other, so that each unitary framework is removable from and insertable into said main framework as a single unit and is interchangeable with any other unitary framework in the machine, and delivery mechanism carried by each unitary framework, each unitary framework and its delivery mechanism constituting a single independent unit.

1,477,239. DEVICE FOR BLOWING OUT OIL PIPES. JOSEPH T. BRYAN, Seaford, Del., assignor of one-half to Levin W. Culver, Seaford, Del. Filed May 8, 1922. Serial No. 559,346. 6 Claims. (Cl. 137—70.)



1. Means for blowing out the lubricating oil conduit of an internal combustion engine of the type having the transmission cover provided with an aperture in its upper wall, a narrow substantially annular passage between its inner surface and the mechanism housed within, said oil conduit having a funnel shaped end positioned within said annular passage, comprising a tubular element shaped to enter said aperture, traverse said annular passage and enter into said funnel shaped end, formed of a series of straight portions angularly arranged and adapted to be brought successively into substantially tangency with the peripheral surface of said housed mechanism.

1,477,240. AUTOMATIC DIE PRESS. WILLIAM CAMERON, Chicago, Ill., assignor to Cameron Can Machinery Co., Chicago, Ill., a Corporation of Illinois. Filed Oct. 13, 1919. Serial No. 330,284. 2 Claims. (Cl. 271—14.)

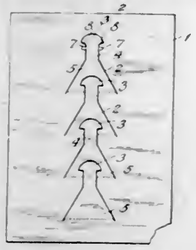


1. In a machine of the class described, the combination of a plurality of suction cups adapted to engage a sheet of material, means for reciprocating said cups, means for applying suction to the cups, means for shutting off the suction to the cups during their downstroke, means for stripping a sheet from the cups as they approach the upper limit of their movement and for holding said sheet in position, and means for transferring said sheet edgewise from said holding means.

1,477,241. DISPLAY DEVICE FOR ADVERTISING PURPOSES. OSWALD B. CARSON, Brooklyn, N. Y. Filed Nov. 24, 1922. Serial No. 602,937. 4 Claims. (Cl. 211—34.)

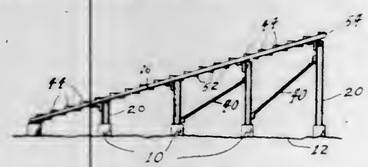
3. A display device comprising in combination a display card, a plurality of overlapping integral tabs hav-

ing free ends cut from said display card, means on the free ends of said tabs to engage the cut out portions of



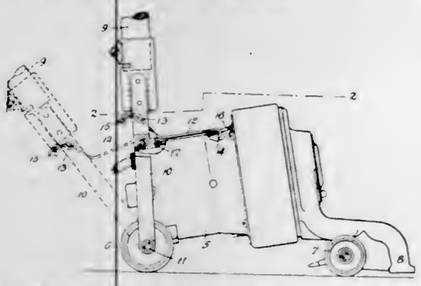
said display card when the tabs are bent outward to hold articles to be displayed, which act to lock the overlapping free ends of said tabs.

1,477,242. PORTABLE GRAND STAND WITH PERMANENT BASE. DANIEL L. CHRISTOPHER, Urbana, Ill., assignor to Leavitt Mfg. Company, Urbana, Ill., a Corporation of Illinois. Filed Nov. 2, 1922. Serial No. 598,477. 4 Claims. (Cl. 189—1.)



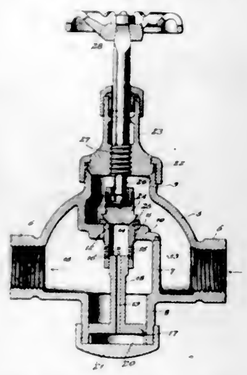
1. A grandstand including in combination, a portable superstructure comprising a plurality of vertical columns, a plurality of angularly extending stringers, angle plates and bolts removably attaching said columns to the stringers, a plurality of horizontally extending supports, additional angle plates and bolts removably attaching the horizontal supports to the columns, and a permanently fixed base having said vertical columns removably attached thereto.

1,477,243. HANDLE LATCH FOR VACUUM CLEANERS. ROBERT COATES, Rahway, N. J., assignor to The Regina Corporation, Rahway, N. J., a Corporation of New Jersey. Filed Nov. 14, 1922. Serial No. 600,839. 3 Claims. (Cl. 306—19.)



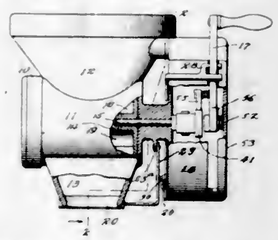
1. The combination of a vacuum cleaner having spaced apertures formed in its body, a handle pivotally connected with said body for manipulating said cleaner, a latch pivotally mounted on said handle, a hook at the one end of said latch adapted to enter said body apertures for maintaining said handle in an upright position and in inclined relation to said body and a tongue forming a continuation of said latch for tripping the same.

1,477,244. APPARATUS FOR CONTROLLING THE MAXIMUM FLOW OF FLUIDS. CHARLES S. COLLINS, New York, and LOUIS ROESSEL, Brooklyn, N. Y. Filed Nov. 18, 1919. Serial No. 338,941. 6 Claims. (Cl. 137—139.)



1. A maximum flow regulating valve comprising a casing having inlet and outlet chambers and an orifice affording communication between said chambers, a hand valve at one side of the orifice to open and close the same, and a pressure actuated valve at the opposite site of said orifice operated automatically independently of the hand valve by variations in pressure in said inlet and outlet chambers to limit the volume of flow of fluid through said orifice in proportion to the decrease in fluid pressure at the outlet side of the valve.

1,477,245. DISCHARGE-CHUTE SHUTTER. ROBERT M. CONKLIN, Jersey City, N. J. Filed Mar. 3, 1922. Serial No. 540,769. 12 Claims. (Cl. 221—106.)



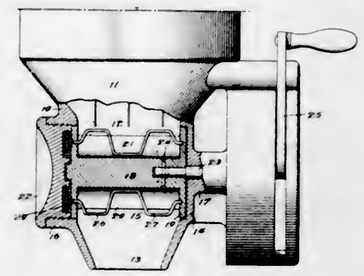
1. In a device for discharging a substance, the combination of a chute, valvular mechanism for controlling the discharge through the chute, said mechanism including an actuating lever, a closure for the chute, and means operated by the lever for moving the closure into open position on the initial movement of the lever.

2. In a device for discharging a substance, the combination of a chute, mechanism for controlling the discharge through the chute, said mechanism including an actuating lever having a handle movable on its actuating stroke over a relatively long arc, a closure for the chute with its free end movable over a relatively short arc and a cam for translating the long movement of the lever into a short movement of the closure.

1,477,246. VALVE-POCKET AGITATOR. ROBERT M. CONKLIN, Jersey City, N. J. Filed Jan. 27, 1922. Serial No. 532,107. Renewed Sept. 14, 1922. Serial No. 588,290. 5 Claims. (Cl. 221—106.)

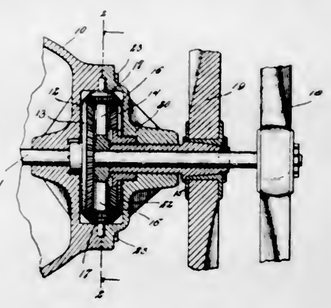
1. In a device of the class described, the combination of a valve mounted for rotary movement and provided with a measuring pocket extending lengthwise

of the axis of rotation of the valve having a curved bottom, an agitator mounted for rotary movement in said pocket and about an axis parallel to the axis of



rotation of the valve and having portions thereof adapted to move in close proximity to the curved bottom thereby to disturb substances on said curved bottom.

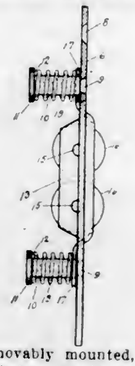
1,477,247. PROPELLER. GAINES H. CORPORON, Citrusgrove, Tex. Filed Nov. 2, 1920, Serial No. 421,328. Renewed June 1, 1923. 1 Claim. (Cl. 244—25.)



In combination with a motor and crank shaft therefor, of a propeller carried by the crank shaft a sleeve receiving said crank shaft, a second propeller mounted on the sleeve, beveled gears secured to the crank shaft and sleeve respectively, a spider interposed between the gears, pinion gears carried by the limbs of the spider and connecting with the aforementioned beveled gears, a cover for certain of said gears including a hub portion surrounding said sleeve, and a body portion having a recess to receive the said gears, means for securing the body of the cover to the base of the motor, and said limbs of the spider being clamped between the base and said cover as described.

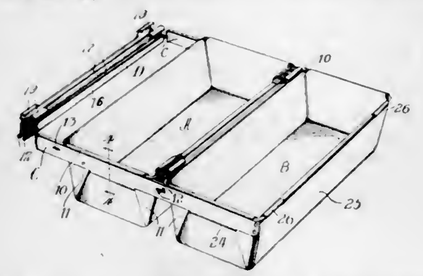
1,477,248. ANTIRATTLING DEVICE. CHALMER B. DAUGHERTY, Dayton, Ohio, assignor to The Dayton Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed June 23, 1922. Serial No. 570,508. 1 Claim. (Cl. 292—15.)

An anti-rattling device comprising in its entirety the following combination of elements: a supporting plate having an opening therethrough adapted to receive a roller carrier, a plurality of guide studs one end of each of which is rigidly secured to said plate said studs projecting therefrom at right angle thereto and being wholly supported thereby, an annular flange rigidly secured to the free end of each of said studs, a roller carrier operative in said opening and having a plurality of rollers mounted thereon; said carrier having end members which extend under said plate and which are perforated to engage said studs upon which said



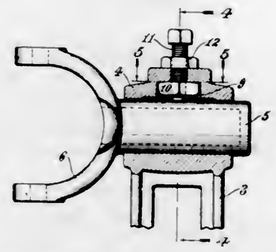
carrier is thereby movably mounted, and springs coiled around said studs between said flanges and said carrier to force the latter toward said plate.

1,477,249. BAKING PAN. LOUIS H. DEBS, Chicago, Ill., assignor of one-half to Albert Cohn, Chicago, Ill. Filed May 1, 1922. Serial No. 557,556. 6 Claims. (Cl. 53—6.)



5. The combination with a plurality of pans arranged side by side, each having an outturned edge, of means connecting the several pans in unitary relation, said means including oppositely disposed spring clips adapted to engage certain of the pan edges, and means adjustably co-acting with said oppositely disposed clips for holding the same against yielding, substantially as described.

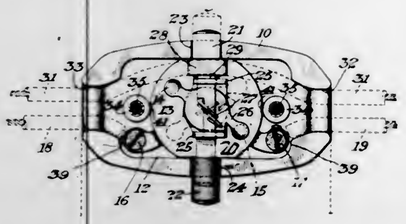
1,477,250. BEARING SUPPORT. STEPHEN A. DOBYNE, St. Louis, Mo., assignor to Champion Shoe Machinery Company, St. Louis, Mo., a Corporation of Missouri. Filed July 19, 1918. Serial No. 245,732. 3 Claims. (Cl. 64—14.)



1. A bearing support, comprising, a base having a transversely disposed socket adapted to receive a forked shaft hanger and provided with an interior angular re-

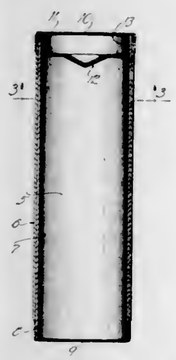
cess, a nut held in said recess against rotation, and a clamping screw passing loosely through said base, into said socket and threaded into said nut.

1,477,251. ELECTRIC SWITCH. JOHN B. DOWNING, Newark, N. J., assignor to Beaver Machine & Tool Company, Newark, N. J., a Corporation of New Jersey. Filed Apr. 19, 1921. Serial No. 462,611. 7 Claims. (Cl. 200—72.)



1. In a feed-thru electric switch, a casing, a switch mechanism including a base, terminals, a contact member, and a reciprocating member having push buttons associated therewith, a bridge connected to and extending from the base of the switch mechanism so as to extend over a portion of the reciprocating member and one of the buttons to maintain the feed-thru line wire in position and to prevent the same from coming into contact with the reciprocating member and the push button.

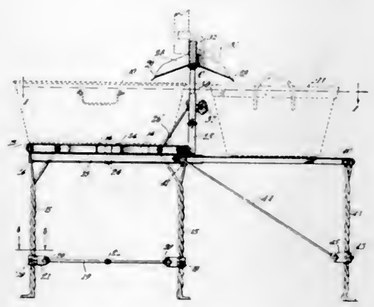
1,477,252. LUBRICATING MEANS. DOUGLAS F. FESLER, Evanston, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 8, 1921. Serial No. 490,491. 4 Claims. (Cl. 206—56.)



1. A package comprising a cylindrical container filled with lubricant, the said container being made of fibrous material and having a removable closure at one end, a frangible closure at the other end, and a plunger slidable in said container, the said plunger having an outwardly extending flange and a central inwardly extending depression.

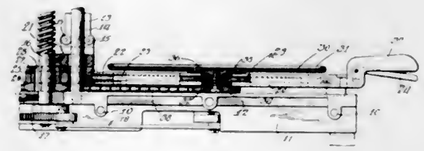
1,477,253. LAUNDRY STAND. JOSEPH S. FIALA, Chicago, Ill. Filed Jan. 18, 1922. Serial No. 530,098. 1 Claim. (Cl. 68—35.)

A laundry stand including supporting elements slidably connected together and comprising tops having rim portions angularly-shaped in cross section, oppositely disposed channel members arranged in parallel relation beneath the top of one of said supporting elements and adapted to slidably receive the top of the other supporting element, means carrying said channel members in position beneath the top of the adjacent supporting element,



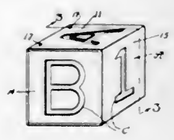
and substantially U-shaped members carried at one end of one of said supporting elements adapted for engagement with the rim of the other of said supporting element for limiting movement of said supporting element in one direction.

1,477,254. SLICE COLLECTOR FOR SLICING MACHINES. JOSEPH FOLK, Laporte, Ind., assignor to U. S. Slicing Machine Company, Laporte, Ind., a Corporation of Indiana. Filed June 12, 1922. Serial No. 567,537. 15 Claims. (Cl. 146—94.)



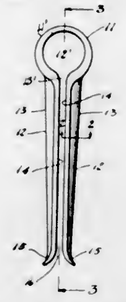
1. The combination with a slicing machine, of a receiving table therefor, means for imparting vertical movement to said table, and means for imparting horizontal movement thereto.

1,477,255. EDUCATIONAL BLOCK. LEWIS FRITZ, Chicago, Ill. Filed Jan. 5, 1922. Serial No. 527,079. 4 Claims. (Cl. 35—1.)



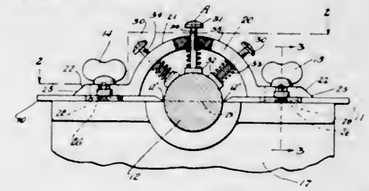
1. Educational blocks each formed from a blank including side, top and bottom walls bent substantially at right angles with respect to each other, a number on one of the walls, and letters of the alphabet on the other walls, the alphabetical numerical relation of the letter on the wall adjacent the head of the number being designated by said number

1,477,256. CLOTHESPIN. EMIL F. LEWIS FRITZ, Chicago, Ill. Filed Nov. 23, 1922. Serial No. 602,847. 3 Claims. (Cl. 24—137.)



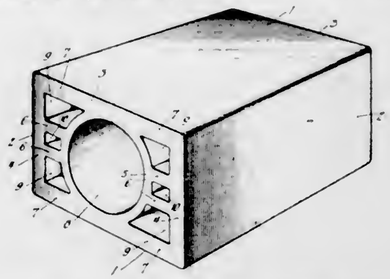
1. A clothes pin of the class described comprising leg portions joined together at one end by an enlarged head having a central opening and an entrance leading to the opening, said head portion diminishing in thickness from the point of juncture with the leg portions to a point opposite the entrance of the opening.

1,477,257. SHAFT-ALINEMENT GAUGE. LEWIS FRITZ, Chicago, Ill. Filed July 8, 1922. Serial No. 573,718. 6 Claims. (Cl. 33—84.)



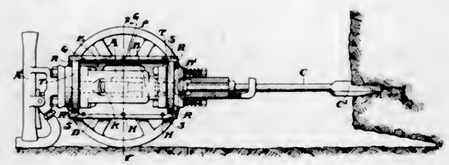
1. A gauge for the purposes herein set forth comprising plate portions adapted to be mounted into engagement with a shaft; a member fixed to the plate portions and having a portion in spaced relation with the shaft and provided with elements adapted to be radially disposed about the shaft and be releasably held in contact therewith.

1,477,258. BUILDING TILE. WILLIAM J. GILBERT, Chicago, Ill. Filed Aug. 15, 1921. Serial No. 492,476. 3 Claims. (Cl. 72—41.)



1. A building tile of the character described comprising rectangular outer wall portions, and inner web portions connected with said outer wall portions, all said inner web portions being thinner than any of said outer wall portions, said webs being arranged so as to provide a large central opening, and smaller side openings, said side openings comprising larger corner openings and smaller intermediate openings.

1,477,259. PNEUMATIC COAL PICK. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Feb. 1, 1923. Serial No. 616,309. 4 Claims. (Cl. 255—51.)



1. A pneumatic coal pick, comprising a wheeled carriage having a cylindrical cradle trunnioned between the wheels and provided with circular internal guiding means, a fluid actuated rock drill adapted to be enclosed within the cradle, and guides on the cylinder of said rock drill adapted to cooperate with the circular guiding means of the cradle, whereby the rock drill may be moved bodily forward and backward with the carriage and is capable of being rotated about its own longitudinal axis and of being oscillated in vertical and horizontal planes.

1,477,260. ANTIFRICTION SLIDING BEARING. DE WITT CLINTON HARRIS, Pineland, Fla. Filed Sept. 1, 1921. Serial No. 497,650. 10 Claims. (Cl. 197—69.)



1. A device of the class described having, in combination with a sliding element, a plurality of rolling bearing elements, an endless raceway therefor, and means for retaining said elements in said raceway arranged to expose certain of said elements successively for bearing contact with a track, said device being pivotally mounted on said sliding element to permit self-alinement of said contacting elements with the track.

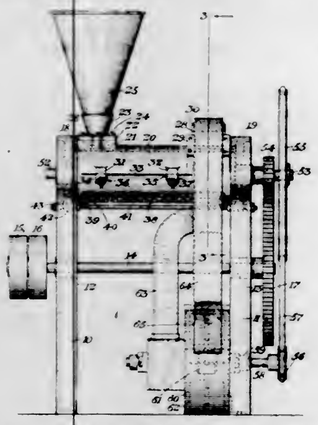
1,477,261. HOT-WATER BOTTLE AND THE LIKE. FREDERICK A. HART, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed May 27, 1919. Serial No. 300,143. 1 Claim. (Cl. 220—44.)



A hot water bottle or the like, comprising a body portion having a neck, a cap associated with said neck, a perforated gasket in said cap, the cap being provided with an air-inlet opening in its top, and a flexible diaphragm mounted between the top of the cap and said gasket and

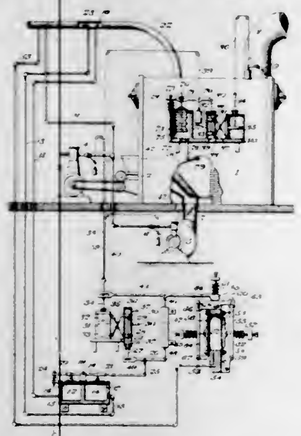
having an opening in alinement with the opening of the gasket and offset from the opening in the cap, said diaphragm being movable into and out of contact with the top of the cap, whereby air may enter the bottle under excess external pressure and egress of liquid from the bottle is prevented.

1,477,262. RICE HULLER. DANIEL J. HAYES, Woodhaven, N. Y. Filed Mar. 1, 1922. Serial No. 540,108. 5 Claims. (Cl. 83—30.)



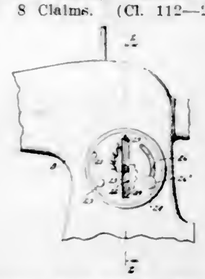
1. A rice hulling machine comprising frame members each having a socket therein, a casing open at one end and closed at the other, the casing being supported in the said sockets of the frame members, a cylinder within the casing, the cylinder having a series of inclined ribs at one end for advancing material as supplied to the cylinder, a series of oppositely disposed ribs at the other end, and a plurality of spaced obliquely placed ribs intermediate of the aforesaid ribs, and means for revolving the cylinder.

1,477,263. CONTROL OF FURNACES. WALTER J. HEINRITZ, Norristown, Pa. Filed Apr. 8, 1918. Serial No. 227,214. 13 Claims. (Cl. 236—14.)



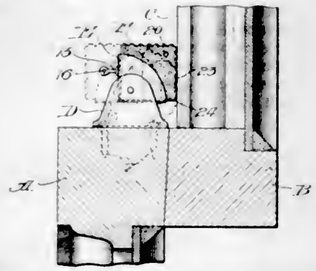
1. In a furnace controlling mechanism, in combination, a boiler, a main for conveying vapor from said boiler, a furnace, a gas discharge duct from said furnace, a damper in said gas discharge duct, an air supply to said furnace, and controlling mechanism including the following instrumentalities:—a primary regulator controlling said air supply, a secondary regulator susceptible to the pressure of gas in said furnace, operatively connected with said damper to control it, and adjusted by said primary regulator, means sensitive to changes of velocity in said main for adjusting said primary regulator, and means susceptible to the pressure in said main to vary the action of said primary regulator and thereby cause said controlling mechanism to prevent high pressure in said main.

1,477,264. FEEDING MECHANISM FOR SEWING MACHINES. PETER HLEB, Elizabeth, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Nov. 5, 1920. Serial No. 421,815. 8 Claims. (Cl. 112—210.)



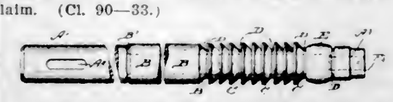
1. The combination with sewing machine feeding mechanism including a shiftable feed-regulating element, of a member having a series of pairs of fixedly related stops, said member being shiftable to position any selected pair of said stops in the path of the feed-regulating element to arrest the latter at predetermined positions of adjustment.

1,477,265. SASH LOCK. WILLIAM HOLSTEIN, Chicago, Ill. Filed Feb. 27, 1922. Serial No. 539,372. 6 Claims. (Cl. 292—202.)



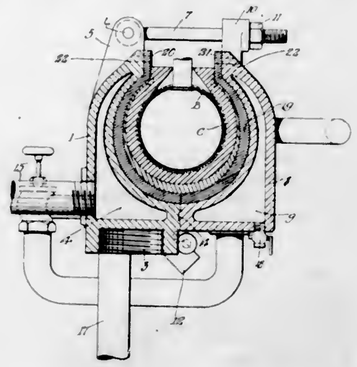
2. A sash lock of the kind described comprising, in combination, a bracket, a holder, a yieldable friction block supported within the holder, and means passing through the bracket, holder, and block adapted to provide a pivotal mounting for the holder and to retain the block therewithin, substantially as described.

1,477,266. BROACHING TOOL. JOHN O. JENKING, Detroit, Mich. Filed Feb. 4, 1922. Serial No. 534,217. 1 Claim. (Cl. 90—33.)



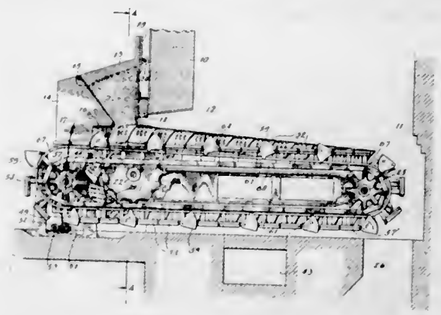
A broaching tool comprising a mandrel having an enlarged head at one end and threaded at its opposite end to receive a nut, a pilot sleeved upon the mandrel adjacent to the enlarged head, a plurality of groups of integral cutters sleeved upon the mandrel, an arc-shaped burnishing element sleeved upon the mandrel adjacent its screw-threaded portion, and a nut engaging the screw-threaded portion of the mandrel to secure the several elements thereon.

1,477,267. VULCANIZING MACHINE. ELMER G. KILLMER, Chicago, Ill. Filed Nov. 9, 1921. Serial No. 513,885. 4 Claims. (Cl. 18—18.)



1. An apparatus of the character described comprising a stationary mould; a similar oppositely disposed mould hinged thereto, said moulds being adapted to operate upon a tire of one size; a liner attachment for each of said moulds which in operative position form a substantially continuous liner surface, for operating upon a tire of a different size; projections on said liners; and means for securing said projections to said moulds so as not to interfere with said moulds.

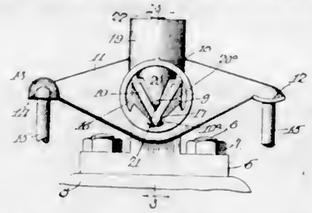
1,477,268. UNDERFEED TRAVELING GRATE. HARRISON E. KLEFFEL, Flushing, N. Y. Filed July 1, 1922. Serial No. 572,248. 17 Claims. (Cl. 110—40.)



2. In a traveling grate construction, the combination of a pair of endless tuyère units spaced from each other, and an endless retort bottom including conveying plates located between the tuyère units and below the tops of the tuyère units, forming therewith a movable retort.

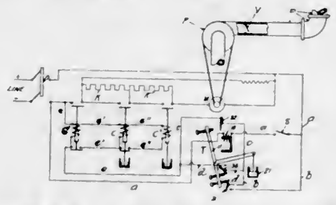
1,477,269. ROCKER ARM. JOHN F. KYTLICA, Chicago, Ill. Filed Feb. 12, 1923. Serial No. 618,508. 5 Claims. (Cl. 123—90.)

1. In a device of the class described, the combination with a V-shaped supporting member, of a rocker arm having a transversely disposed opening surrounding said member and having the wall thereof in contact with the



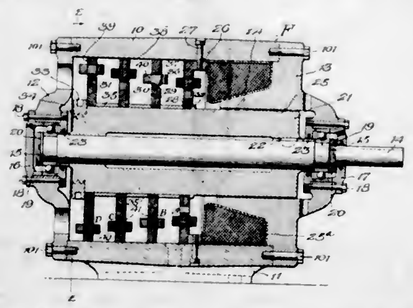
apex of said member, and means carried by the arm and extended into the recess of said supporting member for holding the arm in contact with said member.

1,477,270. FLUID-CIRCULATING SYSTEM. LOUIS LARSEN, East Orange, N. J., assignor, by mesne assignments, to Sundh Electric Company, Newark, N. J., a Corporation of New Jersey. Filed Aug. 2, 1922. Serial No. 579,156. 20 Claims. (Cl. 103—1.)



1. In a fluid circulating system provided with a check valve, the method of stopping the circulation of the fluid which comprises an adjustment of the pressure of the fluid against the valve which will assure the closing of the valve without substantial shock.

1,477,271. MULTIFREQUENCY GENERATOR. FRITZ LOWENSTEIN, Brooklyn, N. Y.; John C. Walt, administrator of said Fritz Lowenstein, deceased, assignor to William Dubilier, New York, N. Y. Filed Dec. 9, 1918, Serial No. 265,930. Renewed Sept. 13, 1923. 3 Claims. (Cl. 171—252.)

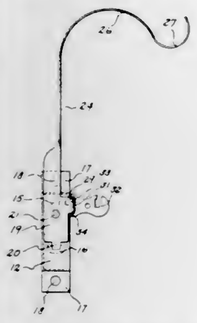


1. In a dynamo-electric machine, the combination with a plurality of stators arranged in sets of different internal diameters, of a corresponding number of rotors arranged in sets of different external diameters respectively cooperating with the sets of stators, said diameters decreasing regularly from one end of the machine toward the other, and means for producing a magnetizing flux in said stators and rotors.

3. In a dynamo-electric machine, the combination with housing means provided with removable end walls, of a plurality of sets of cooperating rotors and stators re-

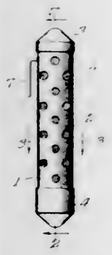
movably disposed within said frame, said sets decreasing in diameter from a location adjacent one of said end walls, and a field winding removably disposed adjacent the other end wall.

1,477,272. DEMOUNTABLE SHADE AND CURTAIN FIXTURE. FRANCISZEK MLICZEK, Cleveland, Ohio, assignor of one-half to Jan Bemben, Cleveland, Ohio. Filed Mar. 9, 1922. Serial No. 542,213. 2 Claims. (Cl. 156—24.)



2. In ademountable curtain fixture, the combination with a hollow base adapted to be secured to a window casing, locking means comprising openings formed in the face of the base, a plate disposed over said base, a narrow prong formed at the lower end of said plate engageable in the lower of said openings, a stud fixed in said plate engageable in the other opening, an arm extending inwardly from said plate, said arm containing a plurality of depressions, a shade fixture slidable on said arm, and a resilient detent carried by said fixture engageable selectively in any of the mentioned depressions.

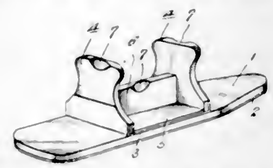
1,477,273. FLY EXTERMINATOR. AUGUST S. LISS, Chicago, Ill. Filed Aug. 5, 1921. Serial No. 490,069. 3 Claims. (Cl. 43—131.)



1. In an insect exterminator, a perforated casing, poisonous material arranged therein and accessible from the exterior thereof, a reservoir adapted to contain a liquid, and moisture-absorbent means above and leading from said reservoir and communicating with said poisonous material for keeping it in a moist condition.

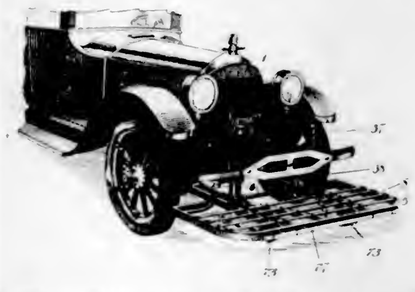
1,477,274. CORN ERADICATOR. AARON L. MALLORY, Atlanta, Ga. Filed Oct. 10, 1922. Serial No. 593,532. 1 Claim. (Cl. 132—78.)

A corn eradicator comprising a base, a medicated abrasive element on one side of the base and finger holds pivoted on the other side of the base adjacent to the ends of said base and capable of swinging movement against the base when not in use and away from the base to positions at right angles to the base, and a brace strip pivoted to the base between said finger holds and



movable from a position against the base to a position at right angles to the base and to said finger holds to brace the latter.

1,477,275. COMBINED BUMPER AND FENDER FOR MOTOR VEHICLES. ALFRED C. MCCLOSKEY, Philadelphia, Pa., assignor to Frederic W. Bacon, Philadelphia, Pa. Filed Aug. 27, 1923. Serial No. 659,479. 22 Claims. (Cl. 293—36.)



4. The combination with a motor vehicle, of a fender hingedly supported at one end, a bumper carried by said fender and resiliently supported between its front and rear, latching and tripping means manually controlled by the driver for controlling the fender either to raise or to release and lower it, and automatic means connected with the bumper for effecting the release and lowering of the fender.

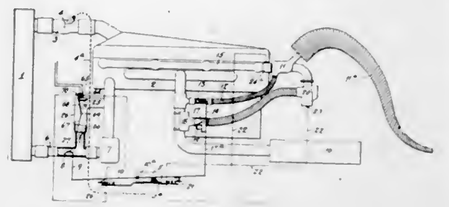
1,477,276. MANUFACTURE OF BUILDING BLOCKS AND SIMILAR MOLDED ARTICLES. FRANK PAUL MCINTYRE, Philadelphia, Pa. Filed July 15, 1920. Serial No. 396,479. 2 Claims. (Cl. 106—24.)

1. The mode herein described of producing a plastic substance for molding articles, said mode consisting of mixing anthracite ash and lime, adding sufficient water to slake the lime and then adding additional ash.

1,477,277. THERMOSTATIC CONTROLLING MEANS FOR INTERNAL-COMBUSTION ENGINES. HERBERT P. MILKER, Brooklyn, N. Y., assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 6, 1920. Serial No. 371,756. 5 Claims. (Cl. 123—122.)

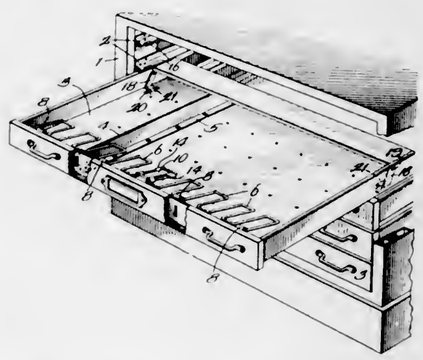
1. The combination of an internal combustion engine having an intake manifold and an exhaust, a system for circulating a cooling medium whereby said engine is cooled, a valve in said system, a hot spot attached to said manifold and communicating with said exhaust, a valve in said exhaust connection, an automatic controller connected with both of said valves and a thermostatic bulb located in said circulating system whereby said controller is caused to actuate both of said valves in predetermined relation to regulate the supply of cooling medium to the engine and of the exhaust gases to the

hot spot in accordance with the temperature of the cooling medium induced by the absorption of heat from the engine.



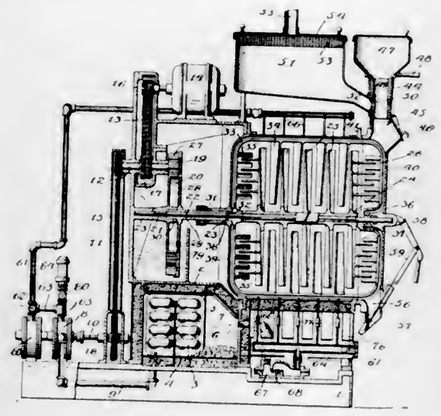
5. The combination of an internal combustion engine, a system for circulating a cooling fluid whereby said engine is cooled when in operation, a control valve in said system, an automatic controller connected with said valve, a thermostatic bulb in said system whereby said controller is caused to actuate said control valve to regulate the supply of cooling fluid to the engine, a by-pass in said circulating system, an electrical heating unit in said by-pass for heating said fluid when said engine is not running, an electric circuit, including separable plugs whereby said unit is connected with a source of electricity, a switch in said circuit operated by said controller to control said heating unit in accordance with the temperature at said bulb, a valve in said by-pass for controlling the same, means connected with said valve and arranged to open and close the same automatically in harmony with the connection and separation of said plugs and a shield forming part of said means and arranged to normally prevent the connection of said plugs when said by-pass valve is closed, said shield being automatically adjusted to an inoperative position to permit the connection of said plugs when said by-pass valve is open.

1,477,278. CABINET DRAWER. JOHN B. O'CONNOR, Aurora, Ill., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill., a Corporation of Illinois. Filed Dec. 17, 1921. Serial No. 522,994. 2 Claims. (Cl. 129—26.)



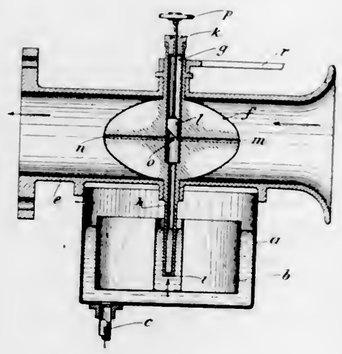
1. The combination with a drawer for cabinets and the like of a retainer hinged to the front of the drawer so as to swing about a horizontal axis and to permit the free edge to be lowered on to the drawer contents, said retainer having slots for accommodating dividers mounted in the drawer.

1,477,279. ICE-CREAM-FREEZING APPARATUS. JACOB GUSTAVE PECK, Portland, Oreg. Filed Oct. 16, 1920, Serial No. 417,415. Renewed Oct. 3, 1923. 11 Claims. (Cl. 62—114.)



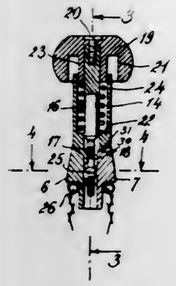
1. In ice cream freezing apparatus, a cylinder, dashers therein, means to rotate said dashers, means to inject air into the cylinder, means to exhaust air from the cylinder, means to introduce the mix to the cylinder, means to effect exit of the mix from the cylinder, and means for refrigerating the air before it is injected into the cylinder.

1,477,280. CARBURETOR FOR INTERNAL-COMBUSTION ENGINES. DORE PORDES, Vienna, Austria, assignor to Fa. P. S.-Vergaser- und Apparatebau-Aktiengesellschaft, Vienna, Austria. Filed Aug. 6, 1920. Serial No. 401,817. 3 Claims. (Cl. 261—44.)



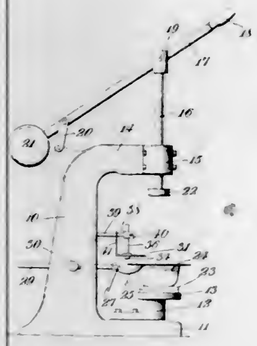
1. In a carburetor, an intake pipe, a butterfly valve in said intake pipe and having a vertical central bore, and a fuel intake duct leading downwardly from said bore, said valve having a fuel duct leading from said central bore toward the discharge end of the pipe, an air duct extending from said bore toward the intake end of said pipe, and a third duct extending from said bore to one side of said valve, and means to open or close said air duct either wholly or to any desired extent and to also close said third duct either wholly or partially while the air duct is closed.

1,477,281. BAG FRAME AND CLASP. THOMAS H. RAMMEL, Plainville, Mass., assignor to Whiting & Davis Company, a Corporation, of Massachusetts. Filed Feb. 7, 1922. Serial No. 534,693. 6 Claims. (Cl. 292—175.)



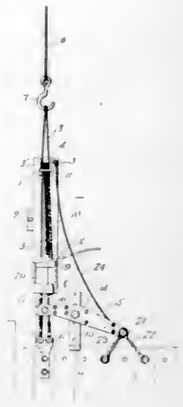
3. In an article of the class described, a pair of frame members having positioning surfaces inclined to the plane of closure and to a plane at right angles thereto to wedge the frame members together when they are closed and form a substantially continuous exterior surface, and a clasp device for said frame members including an apertured slide, a pair of guideways for said slide mounted on one of the frame members, a lug which is secured to the other of the frame members and which has a hooked portion, and a spring for exerting an outward pressure upon said slide whereupon to keep the aperture in said slide slightly out of registry with the hooked portion of the lug.

1,477,282. HAT MARKING. RALPH K. REYNOLDS, Danbury, Conn., assignor to Mallory Hat Company, Danbury, Conn., a Corporation of Connecticut. Filed Apr. 12, 1922. Serial No. 551,821. 15 Claims. (Cl. 101—93.)



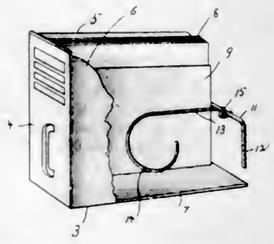
1. In hat marking apparatus, in combination, yielding means adapted to engage and support the outer surface of the crown of a hat, a marking device including a cold inked die, and means adapted to bring said marking device and the inner surface of said crown into operative relation one to another.

1,477,283. PILE-PULLING APPARATUS. MALCOLM D. RIKER, Dover, N. J., assignor to McKiernan-Terry Drill Company, New York, N. Y., a Corporation of New Jersey. Filed July 10, 1920. Serial No. 395,335. 16 Claims. (Cl. 61—76.)



11. In a pile pulling attachment, means for lifting a pile and simultaneously exerting a downward force on the adjacent pile.

1,477,284. FILE HOLDER. SOREN RINGER, Chicago, Ill. Filed June 25, 1920. Serial No. 391,846. 2 Claims. (Cl. 129—31.)



2. In a file holder, the combination of a receptacle adapted to contain vertically disposed files, a rod extending transversely of said receptacle at one end thereof, and a file-holding member consisting of a spring wire coiled at one end to embrace said rod whereby said member is pivotally supported, the convolutions of said coil being spaced apart a sufficient distance to permit detachment of said member from said rod upon movement of said member into a predetermined angular position with respect to the rod.

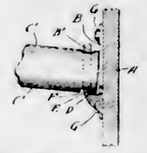
1,477,285. COMBINED STOP LIGHT AND TAIL LAMP. HARRY A. RIPPNER, Cleveland, Ohio, assignor to Beacon Motor Lamp Manufacturing Company, Cleveland, Ohio, a Corporation. Filed Mar. 14, 1923. Serial No. 624,883. 2 Claims. (Cl. 177—329.)

2. A device of the kind described comprising a casing having the edges thereof provided with inwardly projecting lugs, a partition arranged in said casing and subdividing the same into two compartments, said partition having depending legs, the front edges of said partition and legs being flanged, said partition also having an upwardly extending lug and upwardly extending apertured ears, a stop signal plate positioned against the lugs of the casing and the upwardly extending lug of the partition, a name plate positioned against the flanges of the partition and legs, and a tail lamp plate positioned against the inwardly projecting lugs



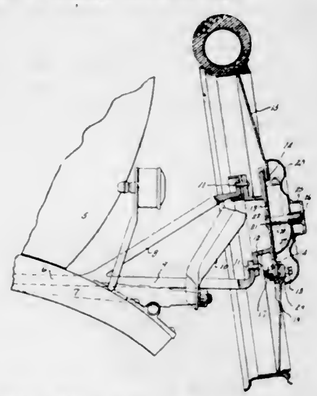
of the casing and a flanged frame plate arranged upon the front of the casing, screws passing through said frame plate and engaging the apertured ears of the partition, said frame plate having openings opposite the stop signal plate, name plate and tail lamp plate.

1,477,286. CURTAIN HOLDER. DICKRAN M. SARKISIAN, Forest Hills, N. Y. Filed May 2, 1921. Serial No. 466,332. 3 Claims. (Cl. 156—17.)



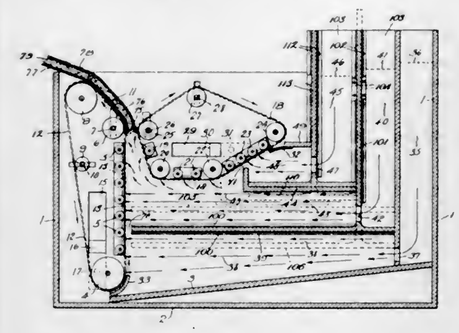
3. A curtain holder comprising a plate having a hook formed integral therewith and provided with a notch the upper side of which presents a shoulder and a rod supported on said hook and having a portion adapted to enter said notch and engage said shoulder when the rod is tilted to prevent its displacement from the hook.

1,477,287. SPARE-WHEEL MOUNTING. CLAUDE SAUZEDDE, Mount Clemens, and JAMES LEO BUCHANAN, Detroit, Mich. Filed June 10, 1922. Serial No. 567,378. 4 Claims. (Cl. 224—29.)



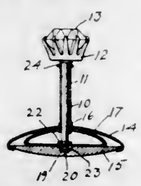
1. A spare wheel cover plate consisting of a cap adapted to hide from view the means whereby such a wheel is attached to an automobile and spring members on the inner side of said cap adapted to bear against the face of the wheel, when said cap is disposed adjacent the said wheel.

1,477,288. APPARATUS FOR VARYING THE THICKNESS OF FIBER LAYERS. JOHN K. SHAW, Minneapolis, Minn., assignor to C. F. Dahlberg, St. Paul, Minn. Filed Apr. 29, 1920. Serial No. 377,550. 2 Claims. (Cl. 92—39.)



1. In a machine for making a fiber board of different layers of interlaced fibers the combination of a movable foraminous surface; a second movable foraminous surface; a plurality of chambers for floating different kinds of fibers to said surfaces; adjustable means separating said chambers and adapted to so vary their relations to the foraminous surfaces as to vary the thicknesses of the different fiber layers in the finished board; and means for compacting said layers together, between said surfaces, substantially as described.

1,477,289. SNAP BUTTON. JOSEPH SIMOKAITIS, Dover, Me. Filed June 26, 1922. Serial No. 570,843. 1 Claim. (Cl. 24—101.)

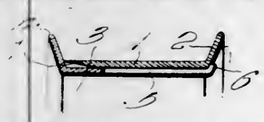


In a button of the class described, a perforated socket member having a foot part, a recessed perforated saucer-like plate in said foot part, a hollow shank extending upwardly from said socket, and having its lower end crimped to hold said plate in said foot-part and its upper end flanged, a crown for holding a precious stone, a shank secured to said crown and extending downwardly into said hollow shank, a neck formed near the lower end of said shank, a depressed base plate for said socket, a head at the lower end of said shank adapted to enter into the depression of said base plate, and a spring clamp adapted to permit the passage of the head of said shank and to engage behind the same around the neck part of said shank, said member allowing a ready withdrawal of said head and shank from said socket, and is adapted to be firmly held in the recesses of said saucer plate between socket and bottom plate.

1,477,290. DEMOUNTABLE RIM. EUGENE M. SISLEY, Huntington, Oreg. Filed June 8, 1922. Serial No. 566,833. 2 Claims. (Cl. 301—35.)

1. An inner rim section having one free edge and a tire-engaging flange on its other edge, said rim section being provided with relatively close transverse splits opening through its free edge to form a spring tongue between each pair of splits, the portions of the rim sec-

tions forming the tongues being extended beyond the free edge of the rim section and the outer ends of the



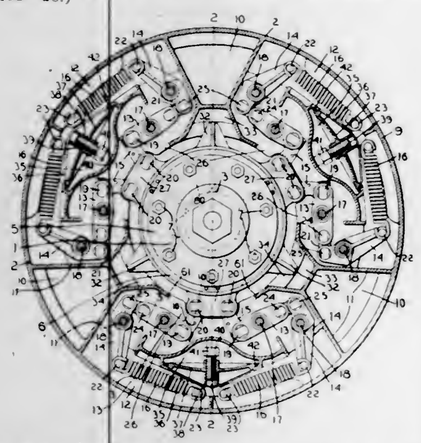
tongues being bent laterally outward to engage the outer face of a flange at the edge of an outer rim section into which the inner rim section telescopes.

1,477,291. KNIFE. CHARLES F. SMITH, New Britain, Conn., assignor to Landers, Frary & Clark, a Corporation of Connecticut. Filed Jan. 31, 1923. Serial No. 615,980. 2 Claims. (Cl. 30—9.)



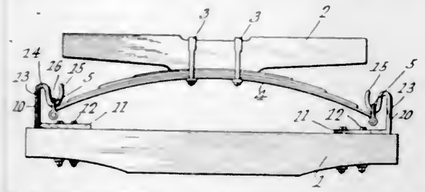
1. A knife comprising a blade and a hilt in one piece, two blocks between which the hilt is located and which form a handle, an angle piece having one wing extending outwardly from the blade and transverse thereto to serve as a guard and the other wing located between the hilt and one of the blocks to secure the guard in place, and a fastening element extending through said blocks, securing wing and hilt.

1,477,292. RESILIENT WHEEL. JOHN A. STAHLE, Boston, Mass., assignor to Stahle Mechanical Tire Company, Ltd., Boston, Mass., a Corporation of Maine. Filed Apr. 16, 1920, Serial No. 374,305. Renewed May 10, 1922. Serial No. 559,902. 13 Claims. (Cl. 152—28.)



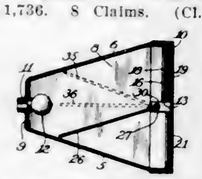
9. In a resilient wheel, the combination with an inner hub member, of an outer tire-receiving member encircling the hub member and provided with separated side walls forming between them chambers, pivot pins extending across said chambers and supported in said side walls, each pivot pin having at one end a head occupying a recess in one of the side walls and at the other end extending beyond the other side wall, a protecting cap enclosing the projecting end of each pin and bearing against the side wall, levers pivotally mounted on the pivot pins, a connection between said levers and the inner or hub member, and springs acting on said levers.

1,477,293. HOOK. BENJAMIN ALVIN STILL, Cullman, Ala. Filed June 22, 1923. Serial No. 647,104. 2 Claims. (Cl. 280—143.)



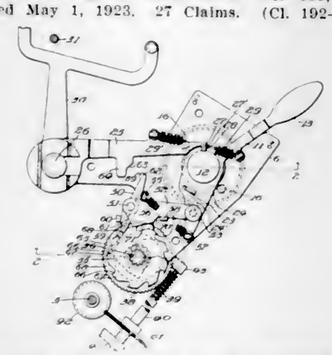
1. A device of the class described comprising a pair of L-shaped hangers each of which has an S-shaped lateral extension at the free end of one arm, the arms of said hangers being apertured to adapt them to be reversed to utilize the device as spring supports and as combined wagon standards and rope securing devices.

1,477,294. ILLUMINATED NUMBER PLATE, REAR LAMP, AND SIGNAL APPARATUS. RALPH F. STORY, Indianapolis, Ind., assignor of one-half to Adam S. Horlacher, Indianapolis, Ind. Filed Jan. 10, 1923. Serial No. 611,736. 8 Claims. (Cl. 116—42.)



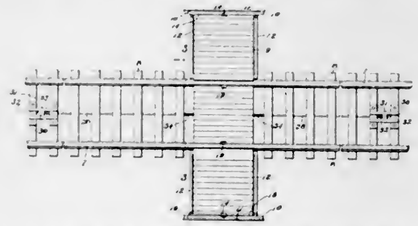
1. Illuminated number plate and signal apparatus including a casing having a transparent number and a light-opening below the number at one end of the casing, a lamp in the casing at the opposite end thereof, and means for periodically closing the light-opening to rays of light from the lamp.

1,477,295. AUTOMATIC STOPPING MECHANISM. LLOYD Y. SQUIBB, Camden, N. J., assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed Aug. 8, 1914, Serial No. 855,788. Renewed May 1, 1923. 27 Claims. (Cl. 192—119.)



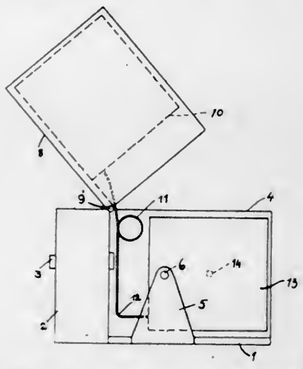
1. Automatic stopping mechanism comprising an element movable from a non-stopping into a stopping position, movable means arranged to hold said element in a non-stopping position, means to move said element, when released from said movable means to a stopping position, a movable member, and releasing means arranged to be actuated by said movable member for actuating said movable means to release said element, said releasing means being connected to said element and arranged to be moved out of operative engagement with said movable member by the movement of said element when released by said movable means.

1,477,296. STOP SIGNAL FOR CROSSINGS. WILLIAM B. TABOR, New Douglas, Ill., assignor of one-half to Albert D. Martin, Gillespie, Ill. Filed May 23, 1922. Serial No. 562,964. 2 Claims. (Cl. 246—294.)



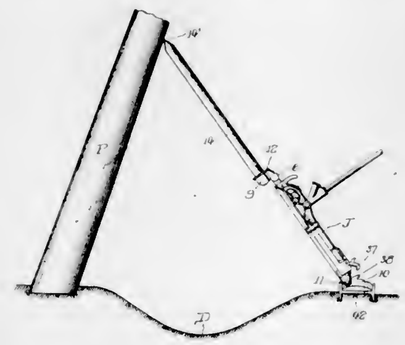
1. A stop signal for railway crossings comprising in combination with a railway track and ties, a bearing secured to said ties and on each side of the crossing, a shaft mounted in said bearings, a bell crank lever located on each side of the crossing and having one arm thereof secured to said shaft, a sign board secured to the other end of said levers and extending across the crossing, a sleeve secured to said shaft midway its ends, a horizontal projecting portion formed integral with said sleeve and extending beneath the base flange of the rails, a vertical portion terminating in a flat plate formed integral with the horizontal portion and lying along the inside edge of the ball of the rail, a tooth formed integral with the horizontal projecting portion, a spring actuated latch adapted to engage with said tooth, a lever located between said tracks on each side of the crossing and at a predetermined distance therefrom, a rod secured to said lever, cables secured to said rod and latch, and a fixed sign extending across said crossing, said fixed sign normally covering the sign board carried by the bell crank levers.

1,477,297. DEVICE FOR MOTION-PICTURE CAMERAS. ODO D. TAUERN and NIKOLAUS LYON, Freiburg, Germany. Filed Aug. 1, 1922. Serial No. 579,073. 1 Claim. (Cl. 88—17.)



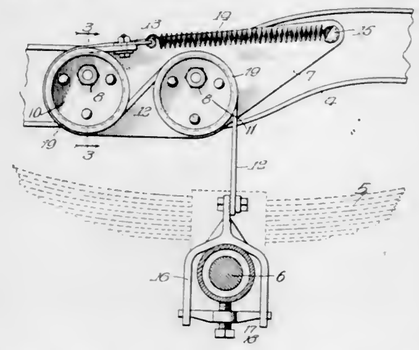
A motion picture camera comprising a bottom, a front portion for the objective, shutter and the feeding device, a lateral portion at one side of the front portion connected to the bottom, driving gear in said lateral portion, an empty film case arranged alongside said lateral portion, a casing for the reception of a full film pivotally connected to the front portion of the camera and arranged to be folded against the front portion of the camera and bottom and alongside the empty film case, or to be raised therefrom, the said driving gear including a shaft coincident with the center of gravity of the camera and said camera having a pin arranged co-axially with said shaft and coacting therewith to form a cross-joint with the head of a tripod.

1,477,298. JACK. WALTER B. TEMPLETON, Chicago, Ill. Filed Feb. 17, 1922. Serial No. 537,142. 10 Claims. (Cl. 254—133.)



1. The combination with a jack frame, and an endwise movable rack-bar slidably mounted therein, of a removable attachment member adapted to be fitted onto and supported by the upper end of said lifting bar and formed with a seat to support a pole extension of said lifting bar.

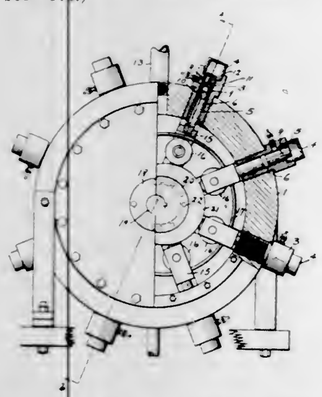
1,477,299. REBOUND-CHECK SHOCK ABSORBER. EDWARD ARNAR TVERDAHL, Chicago, Ill., assignor of one-half to Joseph F. Davis, Chicago, Ill. Filed Oct. 23, 1918. Serial No. 259,416. 2 Claims. (Cl. 267—10.)



1. A shock absorber comprising an attaching bracket, a pair of non-rotatable horizontally aligned drums carried by the front of the bracket, each drum being hollow and open at its outer end, fastening bolts extending through the drums and the bracket, the head of the bolts being housed within the hollow drums and accessible through the open outer ends thereof, spacer sleeves on the bolts and in rear of the bracket, a friction strap engaging the drums, one end of the strap depending from one of the drums and provided with means for connection with the axle of a vehicle, and a substan-

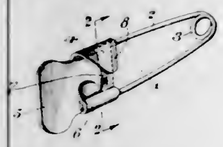
tially horizontal helical spring having one end secured to the other end of the friction strap and its opposite end secured to the bracket, the drums, strap and spring all being in the same vertical plane.

1,477,300. PUMP. HOMER C. THRIFT, Burkburnett, Tex. Filed May 31, 1921. Serial No. 473,891. 2 Claims. (Cl. 103—174.)



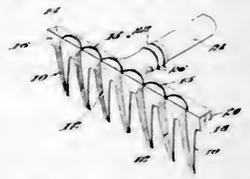
1. A pump including end plates spaced apart, and each formed with a central hub having a bearing, an annular ring seated between the margins and the plates to which said plates are bolted forming an inclosed chamber between the plates, a plurality of radiating cylinders threaded through said ring, cylinder caps threaded onto the outer ends of said cylinders and closing said outer ends, a hollow piston reciprocating in each cylinder, the inner end of each piston having an inlet port, and the outer end thereof having an outlet port, a valve controlling each outlet port, a cage confining each valve, a spring operating against each valve and normally holding the same closed, an inlet pipe entering the casing, an outlet manifold with which each cylinder is connected, an outlet pipe leading from said manifold, a U-shaped cross head connected to the inner end of each piston, a roller bearing between the arms of each cross head, an annular band surrounding said rollers and confined between said arms, a driving shaft rotatably mounted in said hub bearings, and a cam shaped member fixed on said shaft between said hubs, with the periphery of which said rollers are in contact.

1,477,301. LAUNDRY-MARKING PIN. GILBERT R. UPHAM, Philadelphia, Pa., assignor to The De Long Hook and Eye Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 13, 1922. Serial No. 574,598. 3 Claims. (Cl. 40—26.)



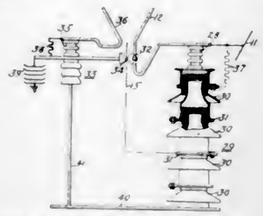
1. A laundry marking pin comprising a plate having a hook-projection thereon, a bent wire portion consisting of a base part and a penetrating part which is adapted to engage said hook-projection, and the said plate having transversely extending slits therein, which slits are spaced from each other, and a strip formed by said slits, which strip is integral at its opposite ends with said plate and is bent inwardly toward the outer free end portion of said hook-projection, substantially as described.

1,477,302. GARDEN TOOL. EDWARD M. SWARTZ, Roxbury, Mass., assignor to Keystone Mfg. Co., Boston, Mass., a Corporation of Massachusetts. Filed Apr. 7, 1923. Serial No. 630,475. 4 Claims. (Cl. 55—10.)



2. A one piece garden tool formed from a metal stamping and provided with a channel-shaped head reinforced by embossing extending transversely of the base member of the channel formation.

1,477,303. PROTECTIVE DEVICE. CHESTER T. ALLCUTT, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 8, 1918. Serial No. 216,088. 50 Claims. (Cl. 175—30.)



1. In protective electrical-discharge-gap apparatus, the combination with two discharge members mounted in spaced relation to each other and connected to a supply circuit, of an auxiliary electrode mounted adjacent said discharge members, and connections embodying impedance members of dissimilar character between said auxiliary electrode and said discharge members, respectively.

28. The combination with means providing a spark gap, of means for impressing an electro-motive force of predetermined character thereacross, a conducting member disposed in proximity to said gap and means for maintaining said conducting member at the potential of the surrounding field during the existence of said predetermined electro-motive force condition and for causing said conducting member to diverge from the potential of the surrounding field upon a divergence of said electro-motive force from said predetermined character.

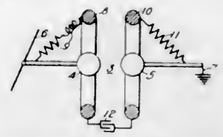
49. A lightning arrester having an impulse ratio of less than unity.

1,477,304. PROTECTIVE DEVICE. CHESTER T. ALLCUTT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 7, 1919. Serial No. 281,165. 12 Claims. (Cl. 175—30.)



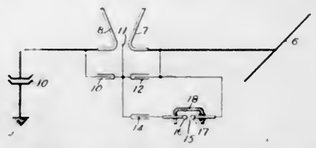
1. In electrical-spark-discharge-gap apparatus, the combination with two discharge members mounted in spaced relation to each other, of an auxiliary electrode mounted adjacent said discharge members, means embodying inductance connected between said auxiliary electrode and one of said discharge members, and means embodying resistance connected between said auxiliary electrode and the remaining discharge member.

1,477,305. DISCHARGE GAP. CHESTER T. ALLCUTT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 4, 1919. Serial No. 287,573. 21 Claims. (Cl. 175—30.)



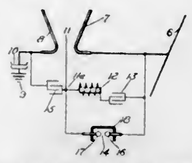
1. In electrical-discharge-gap apparatus, the combination with two discharge members mounted in spaced relation to each other, of means surrounding one of said discharge members but spaced therefrom and adapted to prevent distortion of the electrostatic field between said discharge members at normal frequency of said circuit and to permit the distortion thereof at other than normal frequency.

1,477,306. PROTECTIVE DEVICE. CHESTER T. ALLCUTT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 15, 1919. Serial No. 317,685. 13 Claims. (Cl. 175—30.)



1. In an electrical-discharge-gap device, the combination with two sets of spaced discharge members, of means whereby the breakdown between the discharge members of one of said sets is caused to depend on the other of said sets, and means whereby any moisture whatsoever is prevented from being deposited on the discharge members of said last-mentioned set.

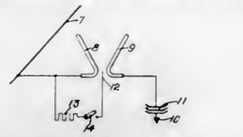
1,477,307. PROTECTIVE DEVICE. CHESTER T. ALLCUTT, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 15, 1919. Serial No. 317,686. 27 Claims. (Cl. 175—30.)



1. In an electrical-discharge-gap apparatus, the combination with two discharge members mounted in spaced relation to each other and connected to a supply circuit, of means dependent on the frequency or on the potential of said supply circuit for insuring that a less nearly uniform potential gradient exists between the said discharge members at abnormal frequencies and potentials than under normal conditions.

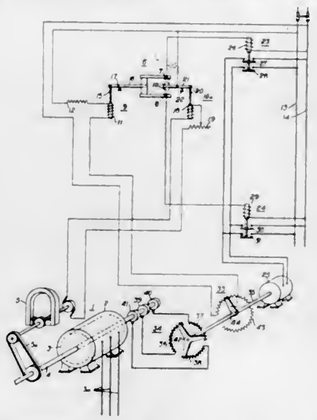
1,477,308. GAP IONIZER. QUINCY A. BRACKETT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 16, 1919. Serial No. 271,492. 14 Claims. (Cl. 175—30.)

1. In combination with an electrolytic lightning arrester, a film-forming device comprising two main discharge members rigidly mounted in spaced relation to each other, one of said main discharge members being connected to ground through said electrolytic arrester, and an auxiliary discharge member fixedly mounted adjacent said



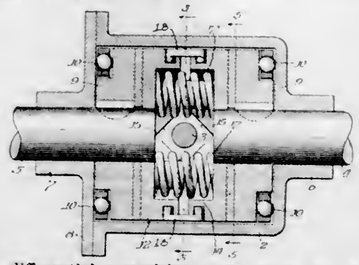
main discharge members, and means for changing the potential of said auxiliary discharge member to substantially the same value as that of one of the main discharge members.

1,477,309. SPEED-REGULATOR SYSTEM. WILLIAM M. BRADSHAW, Wilkinsburg, and CLARENCE A. BODDIE, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 9, 1919. Serial No. 288,761. 13 Claims. (Cl. 171—119.)



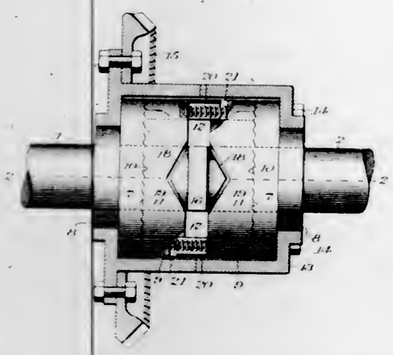
3. In combination, an induction motor, a generator operated by the motor, a regulator device operated by said generator, and means controlled by said device for maintaining the motor speed substantially constant and for preventing hunting action.

1,477,310. DIFFERENTIAL GEARING. HORACE A. CARTWRIGHT, Akron, Ohio. Filed Mar. 1, 1920, Serial No. 362,479. Renewed May 17, 1923. Serial No. 598,777. 3 Claims. (Cl. 74—7.)



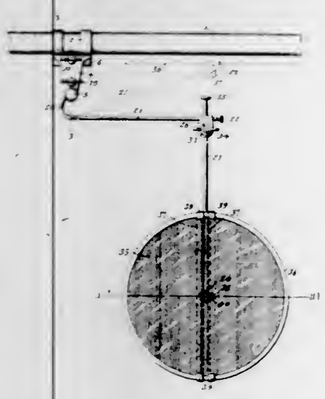
1. A differential comprising a two part rear axle, a clutch member secured to each portion of said axle, a second clutch member mating with each first said clutch members, a housing for said clutch members means to rotate the housing, a pin traversing said housing, inclined surfaces on said second clutch members contacting with said pin, and yielding means to hold the respective clutch members in engagement.

1,477,311. DIFFERENTIAL MECHANISM. HORACE A. CARTWRIGHT, Akron, Ohio. Filed Dec. 5, 1922. Serial No. 605,008. 4 Claims. (Cl. 74—7.)



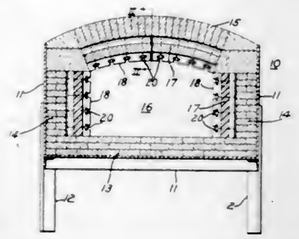
1. A differential mechanism comprising, a two part axle having spaced apart inner ends, oppositely disposed clutch elements fixed respectively upon the inner ends of the axle, a shiftable clutch element rotatively mounted upon each fixed element, said shiftable elements having angular notches in their edges, and driving means for the shiftable elements embodying an elongated key disposed diametrically of the axle ends to rotate therebetween, said key being provided with lateral projections for engaging the notches in the shiftable elements.

1,477,312. ANTIGLARE ATTACHMENT. ALBERT F. CASKEY, Tiffin, Ohio. Filed Nov. 22, 1922. Serial No. 602,662. 4 Claims. (Cl. 296—97.)



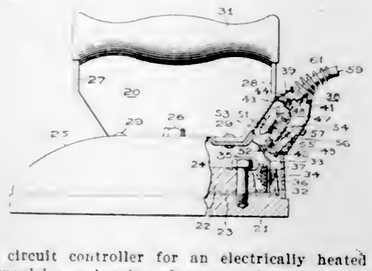
2. An anti-glare attachment for motor vehicles comprising a supporting rod, a clamping device for connecting said rod with a support, a pair of apertured coupling plates positioned against said rod and formed with registering openings, an adjustable hanger rod, a clamping bolt extending through said openings and having its head provided with an opening for the reception of said hanger rod, a clamping nut mounted on said bolt for shifting said plates to clamping position with respect to the supporting rod and to provide for the clamping of the hanger rod to one of said plates by the head of the bolt, a holder adjustably connected between said holder and said hanger rod, and a shield carried by the holder.

1,477,313. ELECTRIC FURNACE. ORA A. COLBY, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 23, 1921. Serial No. 502,691. 12 Claims. (Cl. 204—64.)



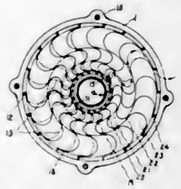
2. An electric furnace comprising a supporting means and a resistor rod having a plurality of integral flattened portions located in said supporting means.

1,477,314. ELECTRIC FLATIRON CUT-OUT. ORA A. COLBY, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 28, 1921. Serial No. 503,796. 17 Claims. (Cl. 219—25.)



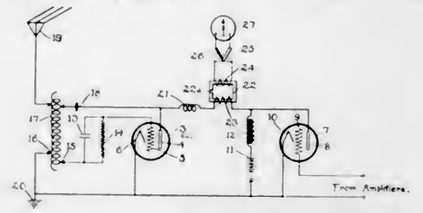
1. A circuit controller for an electrically heated device comprising a heating element, and a non-removable terminal casing, said controller comprising a container in said casing, spaced terminals projecting into said container, and a conducting fluid in said container normally engaging said terminals, said container being so located in said casing that only one end thereof is thermally influenced by said heating element.

1,477,315. EXHAUST SILENCER. ALFRED COMBAZ, St. Boniface, Manitoba, Canada. Filed Feb. 16, 1920. Serial No. 358,945. 20 Claims. (Cl. 137—160.)



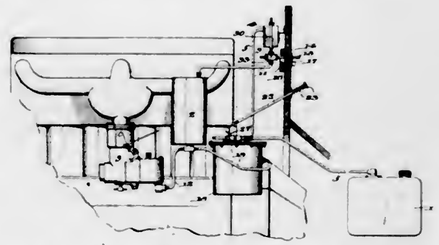
1. A silencer for use with internal combustion engines, guns and the like, comprising spaced heads, one having an inlet opening, leading into a central distributing chamber, spaced undulating blades between the heads, the said blades radiating from and longitudinally disposed relatively to the longitudinal axis of the silencer, and the said blades forming, between their inner terminals, ports to the central distributing chamber and, between their outer terminals, ports to the atmosphere the undulations forming alternately expansion chambers and nozzles.

1,477,316. RADIO MODULATION SYSTEM. FRANK CONRAD, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 11, 1922. Serial No. 574,317. 20 Claims. (Cl. 250—6.)



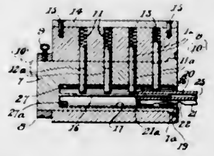
1. A modulation meter comprising a current transformer, a current-measuring device associated with said transformer and means for causing said device to indicate the ratio of the actual modulation current to the maximum modulation current possible without undesirable distortion.

1,477,317. AUTOMOBILE LOCK SYSTEM. TULLY R. CORNICK, Petaluma, Calif. Filed May 13, 1921. Serial No. 469,304. 9 Claims. (Cl. 158—36.)



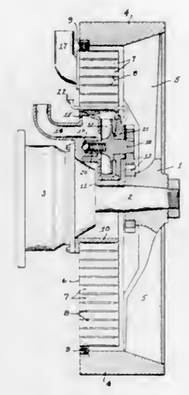
1. A fuel feeding system comprising a main supply tank, a carburetor, a vacuum tank interposed between the carburetor and the main supply tank, a drainage tank connected to the vacuum tank, said drainage tank being in communication with the vacuum feed line, a valve interposed between the vacuum tank and the main supply tank to cut off communication therebetween and to permit passage of fuel from the drainage tank to the vacuum tank, and means for locking the valve.

1,477,318. LOCK. GEORGE F. CRASS, Ithaca, N. Y. Filed July 5, 1922. Serial No. 572,882. 1 Claim. (Cl. 70—47.)



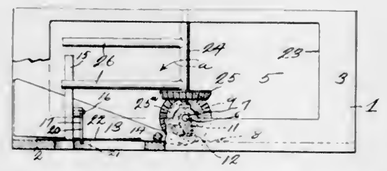
In a lock of the type described, a casing, a barrel rotatable in the casing, a lock bolt carried by the barrel, radially disposed tumbler pins carried by the casing and barrel with the barrel carried pins being of varying lengths, said barrel having a bore therein, a key for operating the tumbler pins, cooperating guide means for the key carried by the key and barrel with the barrel carried means positioned axially of the bore thereof, and cooperating means carried by the inner end of the barrel bore and the key to affect rotation of the barrel in opposite directions.

1,477,319. WATER COOLER. EVERETT B. CUSHMAN, San Jose, Calif., assignor, by mesne assignments, to O. D. Collis, Clinton, Iowa. Filed June 3, 1922. Serial No. 565,764. 3 Claims. (Cl. 257—126.)



1. A water-cooling means comprising a stationary radiator; a rotatable fly-wheel within which the radiator lies; and means carried by the fly-wheel for creating a current of air through both radiator and fly-wheel from side to side.

1,477,320. RAT TRAP. WILLIAM DANLEY, Charleston, Tex. Filed Sept. 21, 1921. Serial No. 502,164. 1 Claim. (Cl. 43—75.)

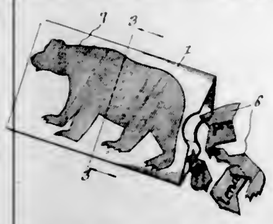


A trap comprising a casing, a tripping platform disposed within the bottom of said casing, a transversely disposed rotatable shaft adjacent one end of said tripping platform and horizontally disposed, a detent lever pivoted to the casing and cooperating with a lug on said transversely disposed shaft for holding said shaft, a coiled spring for normally rotating said shaft, which coiled spring is held tensioned by the detent lever, a vertically disposed shaft rotatably mounted in bearings adjacent one end of the transversely disposed shaft and gear thereto, animal engaging arms carried by the vertically disposed shaft and adapted to rotate in a plane above the tripping platform and a rockable arm actuated by the tripping platform for raising the free end of the detent lever in such a manner as to allow the transversely disposed shaft to revolve as long as there is weight on the tripping platform.

1,477,321. PROCESS OF TREATING BISMUTH ORES. ELTON R. DARLING, Montclair, N. J., assignor to Ellis-Foster Company, a Corporation of New Jersey. Filed Apr. 1, 1919. Serial No. 286,705. 5 Claims. (Cl. 23—13.)

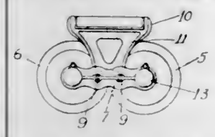
2. In the production of bismuth material the steps which comprise forming a solution of a bismuth salt, in neutralizing the free acidity in the presence of a saline body present in substantial amount at the time of such neutralization and in precipitating an oxy compound of bismuth by diluting such solution.

1,477,322. EDUCATIONAL AND AMUSEMENT DEVICE. THERESA M. DEGHERI, Hoboken, N. J., now by marriage Theresa M. O'Toole. Filed Feb. 10, 1922. Serial No. 535,533. 4 Claims. (Cl. 35—9.)



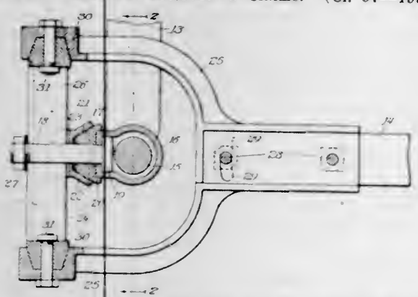
1. An education and amusement device comprising an envelope having a legend on one face, and a number of pieces adapted to be contained in the envelope and having irregularly shaped interfitting edges, said pieces when assembled adapted to form in outline an object and further each piece having a portion of the legend such that when the object is completed by the proper assembly of the pieces the legend will appear upon the combined pieces as it is upon the envelope.

1,477,323. LAND PACKER. SAMUEL K. DENNIS, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Apr. 7, 1921. Serial No. 459,272. 12 Claims. (Cl. 55—21.)



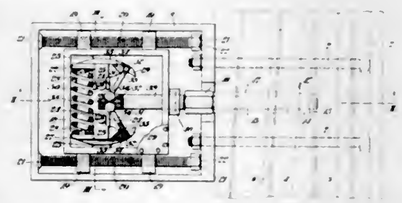
1. In a cultivating implement, the combination of a frame including successive tool carrying shafts, a weight frame above said tool frame, and a connection between the frames permitting them to rock on each other in a fore and aft direction on points of support located in a horizontal plane with the axes of the tool shafts and including means for causing the bearing point of the weight frame on the tool frame to shift in a fore and aft direction as the tool frame is rocked by travel over uneven ground.

1,477,324. CULTIVATOR-BEAM COUPLING. SAMUEL K. DENNIS, Chicago, Ill., assignor to International Harvester Corporation, a Corporation of New Jersey. Original application filed Sept. 3, 1914, Serial No. 860,035. Divided and this application filed May 6, 1921. Serial No. 467,378. 3 Claims. (Cl. 97—199.)



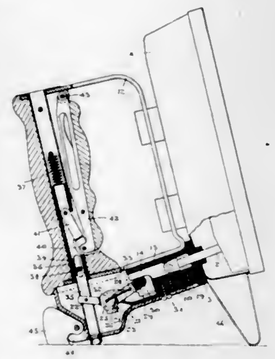
1. In a cultivator, gang members, a support therefor, a connection between each of said gang members and the support, comprising a horizontally extending rotatable sleeve having a longitudinal slot formed therein, a fork connected to the gang member, a member on which the arms of said fork are pivoted to swing laterally, said member having a vertical slot, a single fastening element extending through both of said slots for connecting said member with the rotatable sleeve, and means cooperating with said fastening element for permitting angular adjustment of said fork about the axis of said fastening element.

1,477,325. SWITCH-OPERATING MECHANISM. ISRAEL K. DIXON, Johnstown, Pa. Filed Oct. 3, 1923. Serial No. 666,334. 8 Claims. (Cl. 246—318.)



3. The combination with a switch having a pivoted tongue, of a tongue operating mechanism comprising a box rigidly secured to said switch, an oil-tight box mounted within said first named box and adjustable relative thereto, means within said first named box for adjusting the position of said second named box relative to said first named box, a reach rod connected to said tongue and extending into said second named box, and means within said second named box and connected to said reach rod for retaining said tongue in its different positions.

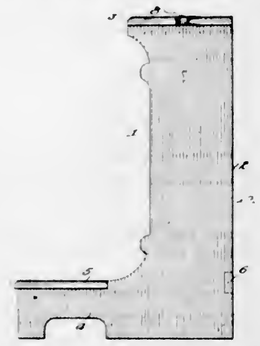
1,477,326. ELECTRIC IRON. HENRY S. DODD, Toronto, Ontario, Canada, assignor to James R. L. Starr, Toronto, Ontario, Canada. Filed June 13, 1921. Serial No. 477,155. 8 Claims. (Cl. 219—25.)



1. In an electric iron, the combination with a pair of terminals rigidly connected with the heater element, of a pivotal switch member adapted to close the circuit between said terminals, a reciprocable member supported in the handle and operatively connected with said switch, and means for operating said longitudinally movable member.

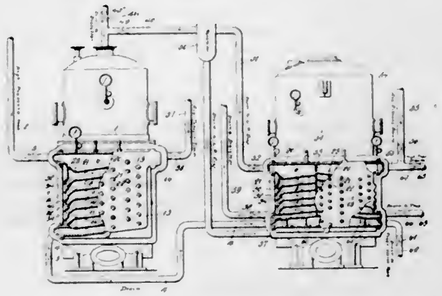
1,477,327. PRAYING OR CONFESSIONAL STAND. SANTE DUCA, New York, N. Y. Filed July 18, 1922. Serial No. 575,843. 6 Claims. (Cl. 155—166.)

1. The combination with a praying stand having a desk with a slot therein, of a confessional screen adapted to be retracted into said stand through said slot, and a strip rigidly secured to the upper edge of said screen and



by means of which it may be projected and retracted, said strip closing said slot and lying flush with the top of the desk when the screen is retracted.

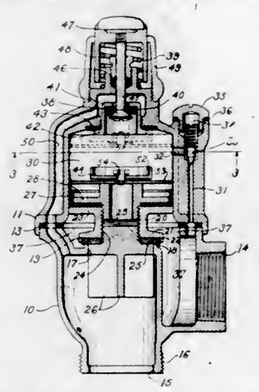
1,477,328. EVAPORATOR. CHARLES W. DYSON, U. S. Navy, and MILTON C. STUART, Annapolis, Md., assignors to Andale Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania. Original application filed Mar. 26, 1920, Serial No. 369,114. Divided and this application filed Aug. 10, 1922. Serial No. 580,990. 22 Claims. (Cl. 203—5.)



1. In an evaporator system the combination of a shell, adapted to contain the liquid to be evaporated; means comprising a coil, adapted to contain steam in said shell; a pair of channels located one above the other and provided with drains for passing a liquid by gravity from one into the other connected to said means; a pipe for conveying steam to said means; and a micrometer valve in said pipe adapted to so throttle said steam as to cause substantially all of it to condense in said channels before leaving said shell, substantially as described.

1,477,329. FLUSH VALVE. FRED B. EDELL, Chicago, Ill. Filed July 26, 1920. Serial No. 398,851. 9 Claims. (Cl. 137—93.)

6. A flush valve comprising, in combination, an inlet space, a valve seat, a control chamber having communication with said space by means of a restricted passage to equalize the pressure in said chamber and space, a piston between said chamber and space exposing a greater area to said chamber than to said space, a valve held to said seat by pressure upon said greater area, a relief valve to relieve the pressure in said chamber to allow the pressure in said space to raise the piston and open the first named valve, a normally open valve adapted, when closed, to render the relief valve ineffective, arranged to be closed by the upward movement of the



piston, and to be held closed by the inlet pressure and a by-pass adapted to relieve the inlet pressure and permit said normally open valve to open.

1,477,330. CHECK BOOK. JOHN O. ELLIOTT, Fargo, N. Dak. Filed Sept. 21, 1922. Serial No. 589,678. 6 Claims. (Cl. 281—19.)

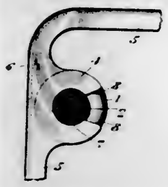


1. In a check book of the class described, the combination with a book having an open pocket on the inside of each of its covers, said pockets opening toward the line of fold between said covers, and another book within said first named book, having its covers projected respectively into said pockets to be thereby removably held foldably positioned therein, a plurality of leaves in the form of checks, bound together along one edge thereof and including a back strip extending over the back thereof, superposed on one of said pockets and having its back strip extended into the interior of said pocket, record leaves forming part of said second named book projectable collectively or singly into either of said pockets or extendible freely between the latter, slits in the cover opposite said pad of leaves, to receive the outer corners of the freely extending record leaves to hold the latter in writing position, and a series of titles printed across the free outer edge of each of said record leaves relating to data commonly forming subject matter of record in the issuance of checks, and ruled lines on said record sheets for dividing said titles into vertical columns.

1,477,331. CUSHIONING DEVICE. ALONZO B. ELY, Groton, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed Feb. 26, 1920. Serial No. 361,400. 9 Claims. (Cl. 45—137.)

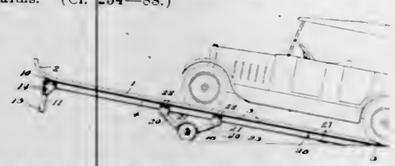
4. The combination with the frame of a typewriting machine, of a rubber foot having a reduced portion intermediate its ends and a dished support-engaging portion at one end, and means carried by the frame having an interlocking slip connection with the reduced portion of said foot.

6. The combination with a machine frame of a reversible supporting foot having two oppositely facing



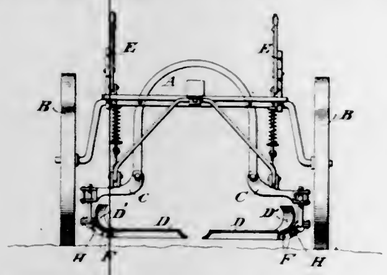
suction heads adapted to grip a supporting surface, and means forming an interlocking slip connection between said foot and frame.

1,477,332. ELEVATING TRUCK OR CRADLE FOR MOTOR VEHICLES. EDGAR P. ELZEY, Parkersburg, W. Va. Filed Nov. 30, 1921. Serial No. 518,933. 9 Claims. (Cl. 254—88.)



1. A motor vehicle elevating truck vertically rockable to and from skid position and horizontal elevated position, said truck embodying a longitudinally elongated vehicle supporting and skid forming platform provided with longitudinal channel bars rigid throughout their lengths and providing vehicle wheel trackways, the floors of said trackways having relatively-fixed rectilular traction surfaces.

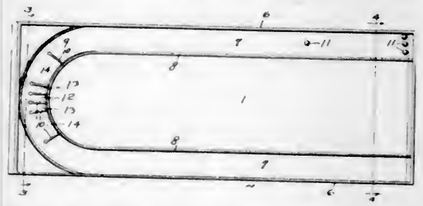
1,477,333. SURFACE PLOW CULTIVATOR. ANDREW ERVEN, Westville, Ill. Filed Sept. 9, 1919. Serial No. 322,744. 1 Claim. (Cl. 97—161.)



A cultivator comprising spaced blocks having inwardly, upwardly and rearwardly directed arms, an upwardly bowed bar having its lower spaced extremities pivotally secured to the blocks, said blocks being provided with approximately horizontally positioned recesses, earth-working tools having rigid braces, brackets connected with said braces and transecting said recesses, means to secure said brackets rigidly connected with said blocks and a wheel supported frame carrying said structure.

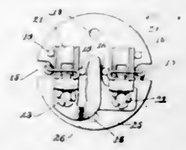
1,477,334. GAMING DEVICE. JOSEPH H. EWING, Malta, Ohio. Filed Mar. 7, 1923. Serial No. 623,442. 1 Claim. (Cl. 46—61.)

A device for the purpose indicated comprising parallel alleys and a communicating arcuate alley, and radial plates disposed in the arcuate alley and defining pockets between them, said plates having a radial extent just



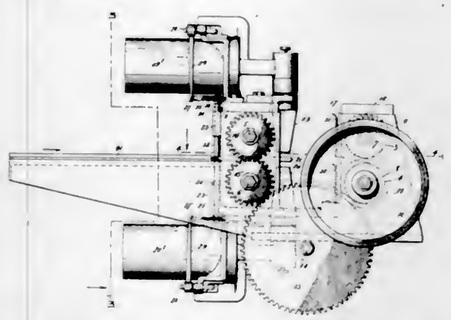
sufficient to permit the passage of a spherical playing object between them and the outer wall of the arcuate alley.

1,477,335. ELECTRIC SWITCH. ARCHIE P. FAHNESTOCK, Plandome, N. Y. Filed Nov. 22, 1921. Serial No. 517,097. 5 Claims. (Cl. 200—159.)



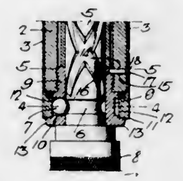
1. An electric switch comprising a base board having marginal wire-receiving slots, a pair of spring binding posts riveted to said base board with their wire-gripping portions substantially opposite said slots, means to prevent the turning of said posts on their rivets, two normally separated contact pieces one extending from each post, and means for forcing said pieces into engagement to close the circuit.

1,477,336. MEANS FOR ATTACHING FLEXIBLE LABELS TO THE ENDS OF BOARDS. RICHARD D. FAY, Nahant, and FRANK R. SHAW, East Bridgewater, Mass., assignors, by mesne assignments, to Hayes-Fay Laboratories, Inc., Boston, Mass., a Corporation of Massachusetts. Filed Jan. 14, 1922. Serial No. 529,353. 10 Claims. (Cl. 216—9.)



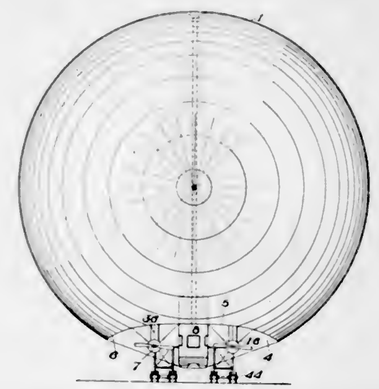
1. In a machine of the kind described, a mechanism for coating an article with a liquid, and means for operating said coating mechanism comprising a cam located to be moved by the article to be coated while passing through said coating mechanism, and connections between said cam and said coating mechanism whereby said article on striking said cam will first cause said coating mechanism to become operative and on further movement of said article will cause said coating operation to cease.

1,477,337. SPIRAL TOOL. THOMAS J. FEGLEY and GEORGE O. LEOPOLD, Philadelphia, Pa., assignors to North Bro's M'f'g Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 30, 1923. Serial No. 628,769. 4 Claims. (Cl. 145—54.)



2. The combination of a casing having an internal screw thread at one end; a threaded plug adapted to the threaded end of the casing; a spindle extending freely through the plug; an annular groove in the spindle; a transverse opening in the plug; a locking ball in the opening arranged to enter the groove in the spindle; a cam ring mounted on the plug for controlling the locking ball, the casing being slotted and the plug being grooved; a key extending through the slot and into the groove, said key having a projection; and a shell, mounted on the casing, having a bayonet groove therein to receive the projection of the key so as to lock the key to the casing.

1,477,338. FLYING MACHINE. THOMAS MILTON FINLEY, St. Louis, Mo. Filed Feb. 27, 1920. Serial No. 361,861. 30 Claims. (Cl. 244—6.)



1. A flying machine of the class described, including a body substantially circular in cross section, slightly indented from a circular shape at the bottom to provide a shallow longitudinal bottom indentation of a depth materially less than that of the radius of the body, and a car or cabin extending from the body into the indentation and located partially within the body.

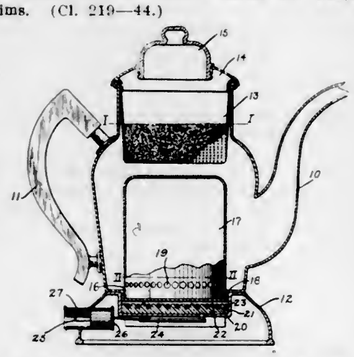
1,477,339. IMMERSION WATER HEATER. FRANK F. FORSHEE, Flint, Mich., assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed Dec. 7, 1920. Serial No. 428,878. 3 Claims. (Cl. 219—41.)

2. An electric immersion heater comprising a heating element adapted to be immersed in a liquid, an upwardly extending handle secured to said heating element, a casing secured to said handle, a quick-break switch in said casing biased to its open position, manual means outside of said casing for closing said switch



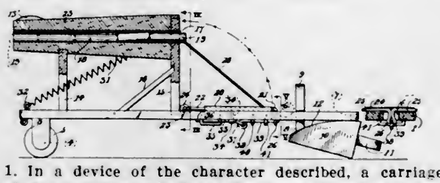
and a float-controlled latch for holding said switch in its closed position when the heating element is immersed in the liquid.

1,477,340. ELECTRIC COFFEE PERCOLATOR. FRANK F. FORSHEE, Flint, Mich., assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed Dec. 17, 1921. Serial No. 522,967. 8 Claims. (Cl. 219—44.)



1. In a percolator, in combination, an outer fluid container, an electric heating element, an inner container in said outer container having a closed upper end and having provision adjacent its lower end for permitting a relatively small quantity of fluid to enter initially from said outer container to be volatilized by said heating element and to be condensed by the surrounding fluid.

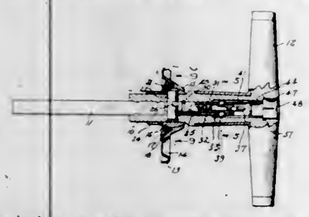
1,477,341. MECHANICAL TOY. PHILIP GADECKI, Mystic, Iowa. Filed Jan. 6, 1923. Serial No. 611,133. 5 Claims. (Cl. 124—12.)



1. In a device of the character described, a carriage having supporting wheels at its forward end, a longitudinally extending slot formed adjacent its rear end, a cam block associated with said slot for raising and lowering the rear end of said carriage, a cannon barrel mounted on said carriage, a hammer pivotally

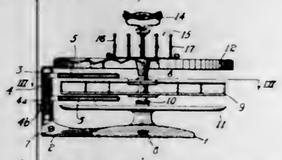
mounted on said carriage rearwardly of said barrel, a trigger mechanism mounted on the under surface of said carriage and adapted to retain said hammer in its cocked position, and resilient means associated with said carriage and hammer for swinging said hammer upwardly when the sear is released by the trigger mechanism; the said resilient means comprising springs secured at one of their ends to said carriage and flexible cords secured to the free ends of said springs, the said cords being attached to the hammer at their other ends.

1,477,342. LOCK. LOUIS W. GATES, New Haven, Conn., assignor to C. Cowles & Company, New Haven, Conn., a Corporation of Connecticut. Filed Jan. 3, 1922. Serial No. 526,526. 12 Claims. (Cl. 70—91.)



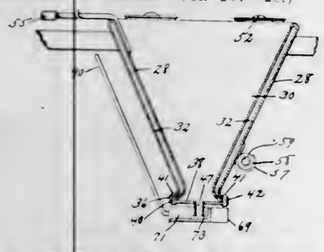
1. In a lock a movable element, means for operating said element comprising a rotatable cylinder, an operative connection between the cylinder and element, said cylinder being bored to receive a spring and a sliding cam element having inclined surfaces, said cylinder being provided with holes adjacent said cam element, a casing surrounding said cylinder provided with recesses adjacent said cylinder, and retaining elements in said holes and adapted to coact with the inclined surfaces of the cam element whereby they are moved to engagement with said recesses.

1,477,343. ROTARY-TOASTER STOVE. GEORGE BREWER GRIFFIN, Springfield, Mass., assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed Dec. 16, 1920. Serial No. 431,066. 10 Claims. (Cl. 219—19.)



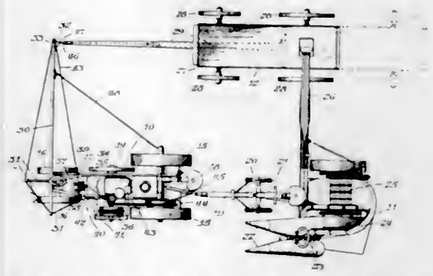
1. In an electrical toaster, the combination with a plurality of heating elements and a material-carrier, of means actuated by said heating means for causing said carrier to rotate material placed therein relatively to said heating elements.

1,477,344. DEPOSITING MACHINE. GUILIO S. GUADAGNI, Providence, R. I. Filed July 18, 1922. Serial No. 575,895. 5 Claims. (Cl. 107—28.)



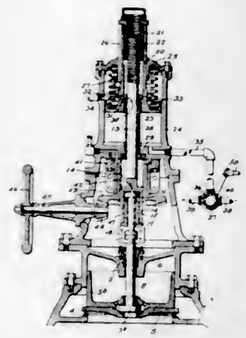
1. In a machine of the character described, a track, a supply tank slidably mounted on the track, a tiltable plate supported by the tank provided with a series of troughs, a series of spouts carried by the tank registering in the troughs, and means for moving the plate.

1,477,345. TRACTOR HITCH FOR WAGONS. CLINTON A. HAGADONE, Western Springs, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Mar. 1, 1919. Serial No. 280,148. 8 Claims. (Cl. 56—18.)



1. In combination, a tractor, a gathering device having delivery means, a receiving device, means connecting the tractor to the gathering device and receiving device whereby the receiving device is adapted to receive material from the delivery means, and means operable by the operator on the tractor to adjust the fore and aft position of the receiving device relative to the gathering device.

1,477,346. VALVE MECHANISM. REGINALD F. HALLIWELL, Leamington, England, assignor to General Electric Company, a Corporation of New York. Filed Nov. 17, 1921. Serial No. 515,950. 5 Claims. (Cl. 137—140.)

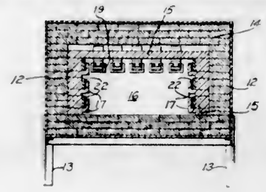


1. In a valve mechanism, the combination of a valve, a stem connected thereto, a fluid pressure supported piston member, a threaded connection between said stem and member whereby the valve may be opened manually, means for supplying fluid pressure to said member to hold it in fixed position, means for relieving the fluid pressure on said member to permit the valve to close independently of the threaded connection, and means forming a second discharge passage for relieving pressure on said member.

1,477,347. RESISTOR-SUPPORTING MEANS FOR ELECTRIC RESISTANCE FURNACES. HOWARD A. HANDS, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 20, 1922. Serial No. 530,558. 5 Claims. (Cl. 204—64.)

1. In an electric furnace, in combination, a plurality of relatively narrow refractory members, of substantially

T-shape, each having a projecting portion provided with an overhanging flange, stirrups supported by said overhanging flanges and a resistor member supported by said stirrups.



1,477,348. METHOD OF PUDDLING. HENRY D. HIBBARD, Plainfield, N. J., assignor to Hibbard Process Corporation, New York, N. Y., a Corporation of New Jersey. Filed Sept. 16, 1921. Serial No. 501,139. 17 Claims. (Cl. 75—27.)

1. The process of promoting chemical reaction between certain components of immiscible molten fluids of different specific gravities, which comprises repeatedly pouring said fluids together from one container into another, and under temperature conditions such that one of the fluids eventually solidifies as a result of the rise of its fusion temperature incident to a chemical change therein caused by the reaction.

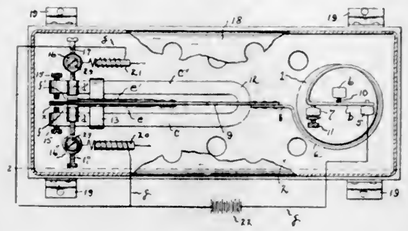
1,477,349. TUBULAR FENCEPOST. PERCY J. HINDMARSH, Lincoln, Nebr., and JOHN W. MEAKER, Evanston, Ill., assignors to The American Steel and Wire Company of New Jersey, a Corporation of New Jersey. Filed June 22, 1922. Serial No. 570,269. 3 Claims. (Cl. 189—29.)



1. A hollow steel fence post having a longitudinal opening extending from end to end thereof, and at least one other longitudinal opening extending upwardly from adjacent the bottom end of said post to a point adapted to be below the ground level, and one edge of the side wall of said post paralleling said first named opening being provided with a series of alternate projections and depressions.

1,477,350. THERMOSTAT ATTACHMENT. HENRY A. HOESCHEN, Omaha, Nebr., assignor of one-half to Baker Ice Machine Company, Omaha, Nebr., a Corporation. Filed Aug. 6, 1920. Serial No. 401,715. 2 Claims. (Cl. 200—139.)

1. The combination of a support, a metallic strip curved between its ends, said strip having a rectilinear part disposed in the plane of its curved part and secured to the support, a pair of electrical contact-pieces stationary with the support and disposed at the respective sides of the strip, a magnet approximately of U-shape stationary with the support and disposed with its arms at the respective sides of the strip, a pair of resilient wings at the sides of and secured to the strip, each wing being disposed between the strip and an electrical contact-piece, and means connected with the support and engaging the rectilinear part of the strip for controlling a movement of that part of the strip adjacent to the electrical contact-pieces.

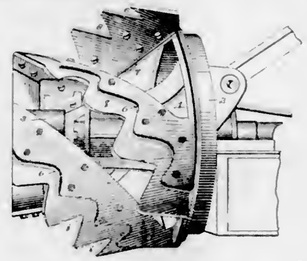


1,477,351. COMPOSITE PLATE AND METHOD OF MAKING THE SAME. SAMUEL C. HOEY, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 12, 1919. Serial No. 296,569. 10 Claims. (Cl. 154—2.)



1. A composite plate comprising superimposed layers of impervious fibrous material and interposed layers of fibrous material impregnated with a hardened phenolic condensation product.

1,477,352. DREDGE CUTTER. DAVID E. HUGHES, San Pedro, Calif., dedicated to the public by assignment. Filed Nov. 9, 1921. Serial No. 514,101. 5 Claims. (Cl. 37—67.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

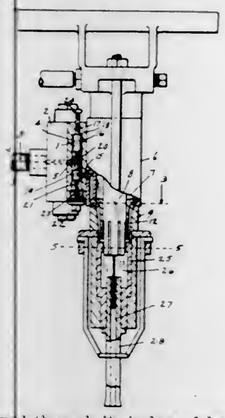


1. A cutter comprising a cutter frame provided with spiral blade supporting vanes, a cutting blade secured to the inner surface of each of said vanes and conforming in curvature to the latter, the spiral of the blade being such that its rear travels circumferentially in advance of its forward extremity.

1,477,353. ROCK-DRILLING ENGINE. CHARLES A. HULTQUIST, Los Angeles, Calif. Filed Aug. 26, 1919. Serial No. 319,994. 2 Claims. (Cl. 121—10.)

2. In a rock drilling engine, a cylinder forming a plunger chamber, a plunger casing forming a clearance chamber and fitting in the cylinder and having an annular

groove at its upper end and ports through the casing from said groove to the clearance chamber, the cylinder having

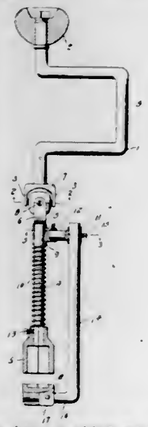


an air port formed through its body and leading from the main air line to the annular groove in the plunger casing, and a spring-pressed valve normally closing said port.

1,477,354. METHOD OF TREATING AND RESTORING USED STORAGE BATTERIES. MARSHALL E. HUNT, Belle Plaine, Iowa. Filed Oct. 27, 1922. Serial No. 597,394. 1 Claim. (Cl. 204—29.)

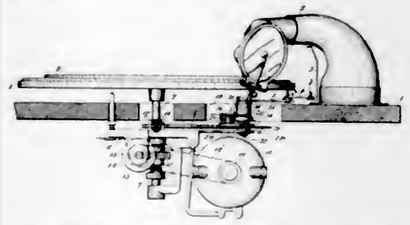
The herein described method of treating and restoring used storage batteries, consisting in first placing the used plates, with vulcanized rubber fillers between them, between the jaws of a vise and applying pressure and in then subjecting the positive and negative plates to heat sufficient to dry the same.

1,477,355. WRENCH. EVELYN LEON JACOBS, Henryetta, Okla. Filed Apr. 13, 1922. Serial No. 552,130. 1 Claim. (Cl. 81—121.)



A wrench having a bar provided with a laterally projecting right angular end portion integral therewith, a socket screw threaded on said end portion to permit lateral adjustment thereof, a sleeve slidably adjustable along said bar and provided with a shank, a fitting into which said shank extends, means to extensibly secure said shank and said fitting together for adjustment to correspond to the position of said socket, a rod parallel to said bar and slidable in said fitting, a socket carried by said rod to co-act with the first mentioned socket, and an operating means for the rod disposed above said fitting.

1,477,356. CIRCUIT BREAKER FOR PHONOGRAPHS. JOSEPH JANES, Somerville, Mass., assignor to G. Clay Cox, Rochester, N. Y. Filed June 21, 1922. Serial No. 569,916. 5 Claims. (Cl. 192—118.)



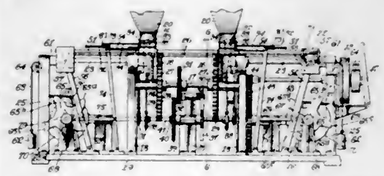
1. In a device of the kind described, a movable arm, a motor, a circuit for said motor comprising a circuit breaker one member of which is attached to said movable arm to be moved thereby and the other member of which is mounted to be operated by said motor, whereby when said movable arm is given its normal movement the members of said circuit breaker will contact to maintain a closed circuit through said motor and when the normal movement of said movable arm ceases the circuit will be broken and the motor will stop.

1,477,357. ANKLET AND ARCH RETAINER. FRANK H. JENSEN, Everett, Mass. Filed Aug. 10, 1922. Serial No. 580,976. 3 Claims. (Cl. 128—166.)



1. An anklet and arch retainer comprising elastic fabric fitted to clasp the foot and ankle and having two pockets attached to the foot portion, one at the front end and the other at the side opening to the inner side of the foot, and yielding pads removably inserted in said pockets.

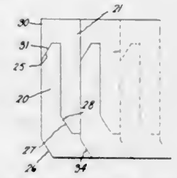
1,477,358. APPARATUS FOR PACKING COMMINUTED MATERIAL. ARON JOHNSON, Brooklyn, N. Y. Filed July 1, 1920. Serial No. 393,405. 30 Claims. (Cl. 18—5.)



1. In apparatus for the purpose specified, a support for a tube and reciprocable means for feeding successively predetermined quantities of comminuted material into opposite ends of said tube and applying a tamping pressure thereto.

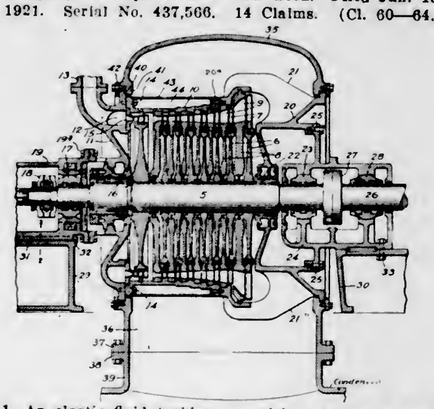
11. In apparatus for the purpose specified, the combination of two series of pockets one series of pockets being in spaced alinement with the other series of pockets; a support to carry a series of tubes in horizontal position in interposed relation to the two series of pockets and with the ends in alinement wih said pockets; means with which said pockets are in communication for supplying material thereto; and means to deliver the material from the pockets into the opposite ends of the tubes.

1,477,359. STATIONARY INDUCTION APPARATUS. SVEND E. JOHANNESEN, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Apr. 11, 1921. Serial No. 460,589. 3 Claims. (Cl. 175—356.)



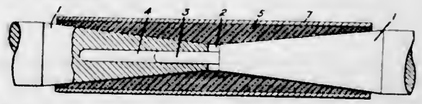
1. A pair of complementary L-shaped laminar elements of magnetic material adapted to form a lamination suitable for assembly in cores of electrical apparatus, each element comprising a leg and a base, the leg of each having a diagonally cut away corner, the base of each being shaped with a triangular projection to be the enveloping complement of the leg of the other, whereby the laminar elements may be disposed in nested relation in the stock sheet of magnetic material.

1,477,360. ELASTIC-FLUID TURBINE. OSCAR JUNGGREN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 15, 1921. Serial No. 437,566. 14 Claims. (Cl. 60—64.)



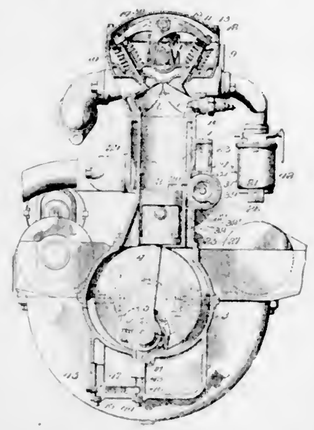
1. An elastic fluid turbine comprising a rotor, a shell in which it rotates, and an exhaust housing, characterized by the fact that the exhaust housing is supported independently of the other parts of the turbine and is connected to them by yieldable joints.

1,477,361. COMPOSITE STRUT. ROBERT KEMP, Washington, D. C., assignor to Westinghouse Electric Manufacturing Company, a Corporation of Pennsylvania. Filed July 22, 1918. Serial No. 246,017. 9 Claims. (Cl. 189—37.)



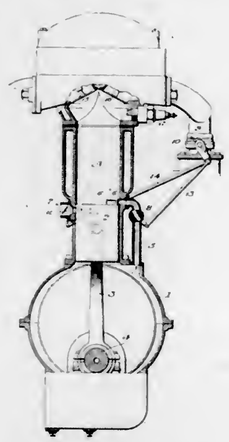
1. A tubular element comprising a sleeve and a reinforcing body disposed therein which varies in thickness of wall from its intermediate portion to its ends.

1,477,362. GAS ENGINE. MARTIN C. KESSLER, Detroit, Mich., assignor to The Kessler Motor Company, Denver, Colo., a Corporation of Colorado. Filed Mar. 13, 1915, Serial No. 14,104. Renewed July 24, 1923. 12 Claims. (Cl. 123—60.)



1. In a four-cycle explosive engine which has main valves and compression chamber valve two cylinders, two pistons reciprocating in one direction at the same time for the purpose of creating compression in a compression chamber which is common to the ends of both of said pistons, a by-pass leading from said compression chamber to the opposite end of one of said pistons, a by-pass to admit air to said compression chamber, and means for controlling all of said by-passes by said compression chamber valve which may be advanced or retarded while in operation without affecting the timing of said main valves.

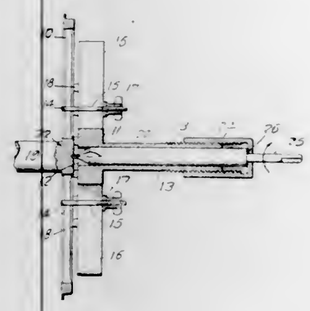
1,477,363. EXPLOSIVE ENGINE. MARTIN C. KESSLER, Detroit, Mich., assignor to Kessler Motor Company, Denver, Colo., a Corporation of Colorado. Filed Dec. 21, 1917, Serial No. 208,275. Renewed July 24, 1923. 8 Claims. (Cl. 123—76.)



1. A four-cycle engine having a cylinder, crank case, piston, the cylinder having inlet and exhaust valves, the crank case having inlet and transfer ports with

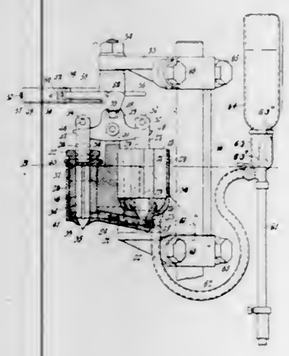
valves therein, a fuel control valve for regulating the admission of fuel to the cylinder inlet valve, and means for simultaneously operating the fuel control valve and the crank-case inlet and transfer port valves.

1,477,364. RECENTERING DEVICE. HENRY KETTLER, Detroit, Mich. Filed Oct. 12, 1921. Serial No. 507,303. 1 Claim. (Cl. 77—18.)



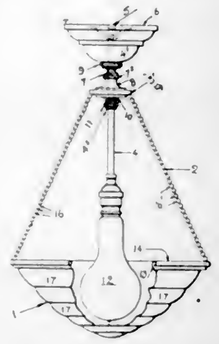
The combination with a boring tool of a sleeve forming a journal for said tool, a plate carried rigidly by the sleeve with its plane perpendicular to the axis of the tool, means to attach the plate to the work at variable distances from said axis, and means to space the plate away from and in parallelism with the work, both of said means being located between the plate and the work to provide an unobstructed space in front of the plate to facilitate the placing of the work.

1,477,365. DISPENSING DEVICE. KARL KIEFER, Cincinnati, Ohio. Filed Dec. 26, 1919. Serial No. 347,474. 5 Claims. (Cl. 226—99.)



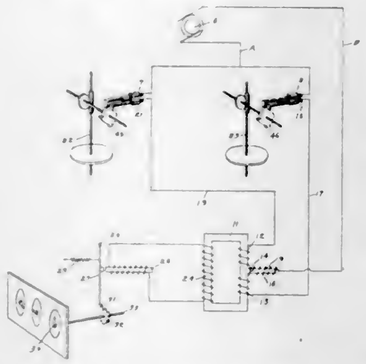
1. In a dispensing device, a fixed receiving cup, a fixed discharging cup, said cups having a passage connecting the lower parts of their interiors, a valve controlling communication between said receiving cup and said passage, said discharging cup having an outlet, a valve controlling said outlet, operating means connected to said valves to alternately open said valves, rotary means bringing containers successively under said discharging-cup outlet, and an operative connection between said operating means and said rotary means.

1,477,366. LIGHTING FIXTURE. BENJAMIN F. KLEIN, Cleveland, Ohio. Filed June 29, 1921. Serial No. 481,219. 4 Claims. (Cl. 240—78.)



1. A lighting fixture comprising, supporting means; a reflector; a ball-chain for supporting the reflector from the supporting means; means for locking the ball-chain to the supporting means including a downwardly-turned peripheral slotted rim formed upon said supporting means, and a suitably supported shell member formed with a flange over which said rim fastens; and means for supporting a lamp adjacent the reflector.

1,477,367. ELECTRIC REGISTER. OTTO A. KNOPP, Oakland, Calif., assignor to General Electric Company, a Corporation of New York. Filed Mar. 1, 1920. Serial No. 362,454. 5 Claims. (Cl. 71—34.)

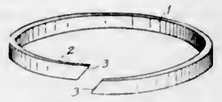


1. In a device of the character described, the combination of a source of current, meters capable of registering a commodity, contacts contacted with said current and operated by said meters, a magnetic core, primary windings on one leg of said magnetic core in opposition to each other, said windings being connected at one end to said source of current and at their opposite ends to said contacts on said meters, and means for registering current impulses passing to said magnetic core.

1,477,368. PISTON RING. EMIL KOTTUSCH, Greenville, Miss. Filed Feb. 21, 1922. Serial No. 538,405. 1 Claim. (Cl. 74—109.)

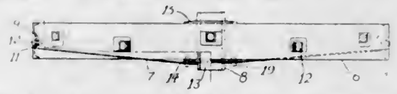
In combination, a piston having a groove formed therein, the side walls of said groove lying in substantially parallel planes at right angles to the axis of said

piston, and a ring within the groove exerting pressure upon the side walls thereof, said ring normally having a form of a thread of a single turn, the width of the ring



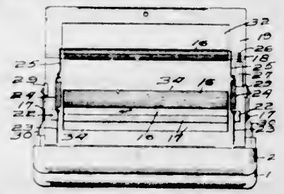
being less than the width of the groove within the piston by an amount sufficient to permit circumferential movement of the ring within the groove.

1,477,369. METALLIC WHEEL FOR IMPLEMENTS AND VEHICLES. ANDREW KOWALSKY, Oak Park, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Jan. 7, 1921. Serial No. 435,687. 11 Claims. (Cl. 301—56.)



11. A metallic wheel having a rim, depressed sections on the rim having side openings and spaced from the inner periphery of the rim, spokes having lateral extensions extending through the side openings and engaging the depressed section and the inner periphery of the rim, a hub having a plurality of annular shoulders, the inner ends of the spokes being bent back to provide shoulders engaging the shoulders on the hub, and means for securing the respective ends of the spokes in engagement with the rim and hub.

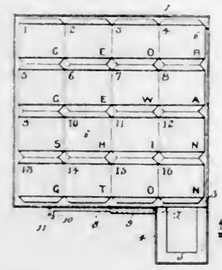
1,477,370. CIGARETTE-FORMING DEVICE. STEPHEN LACZKO, Toledo, Ohio. Filed Dec. 30, 1920. Serial No. 433,988. 2 Claims. (Cl. 131—5.)



2. In a cigarette forming device a box having a hinged cover, a frame connected to the cover and having two openings, a sheet material extending from the back of the frame through one of the openings across the other of the openings a movable bar connected to one end of the sheet material, and an adjustable bar connected to the other end of the sheet material for adjusting the tension of the sheet material, a bar for engaging the sheet material intermediate the ends thereof, and means for causing the bar to move across the said openings, means for limiting the movements of the first named movable bar to substantially across one of the openings, the cover having an opening registering with the other of the said openings, the third named bar operating to stretch the sheet material across the two openings of the frame and across the openings of the cover.

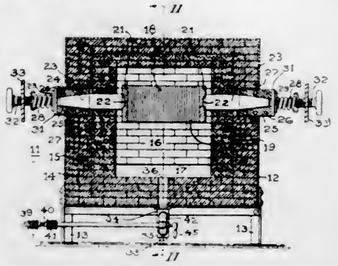
1,477,371. PUZZLE. FRANK LARABEE, Chicago, Ill. Filed Sept. 21, 1922. Serial No. 589,588. 3 Claims. (Cl. 46—41.)

1. In a puzzle, a box member adapted for the reception of a plurality of flat like block members therein, an alcove portion formed upon said box and adapted to receive one of the block members while the puzzle is being solved, the floor elevation of the alcove portion being different from that of the bottom of the box member whereby the block member within this alcove is supported at a different elevation from that of the blocks within the box member, and means carried by said box



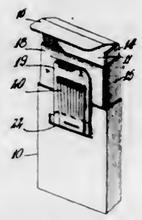
member for bridging across said alcove adjacent the forward end of the block supported therein for preventing sliding disengagement of this block from its alcove portion.

1,477,372. MEANS FOR PRODUCING A SOOTY VAPOR IN ELECTRIC FURNACES. GEORGE M. LITTLE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 23, 1922. Serial No. 546,014. 5 Claims. (Cl. 204—64.)



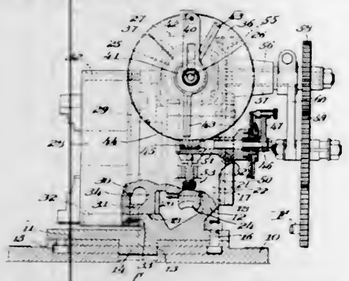
1. An electric furnace comprising a plurality of walls enclosing a furnace chamber, a carbonaceous resistor located in said chamber, a plurality of feed-pipes entering said chamber and a single means for permitting a fluid sooty-vapor-producing agent to enter said chamber through one pipe and a fluid oxidizing agent through the other pipe.

1,477,373. COMBINED CIGAR OR CIGARETTE AND MATCH BOX. BENJAMIN LEBWOHL, New York, N. Y., assignor of one-half to Benjamin Mindich, New York, N. Y. Filed Aug. 1, 1922. Serial No. 578,865. 5 Claims. (Cl. 206—48.)



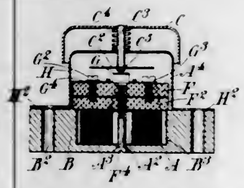
1. A box of the type described comprising an outer member, an inner member slidable therein, and a pad of matches carried by the inner member and adapted to be projected from the outer member in unison with the inner member, said outer member having a slot therein through which the matches are projected.

1,477,374. DIVIDING HEAD. OSCAR S. MARSHALL, Springfield, Vt. Filed June 3, 1920. Serial No. 386,338. 16 Claims. (Cl. 90—57.)



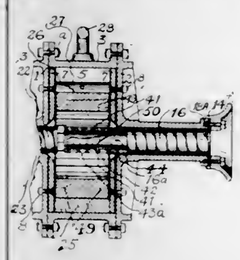
1. A dividing head comprising in combination a supporting structure, a rotatable shaft, an index plate rotatable independently of the shaft, means for detachably connecting said shaft and index plate together, and speed-reducing gearing directly engaged with said plate for rotating the same.

1,477,375. ELECTRICALLY-OPERATED WARNING HORN. REGINALD WALTER MAUDSLAY, Coventry, England. Filed July 15, 1922. Serial No. 575,291. 2 Claims. (Cl. 219—48.)



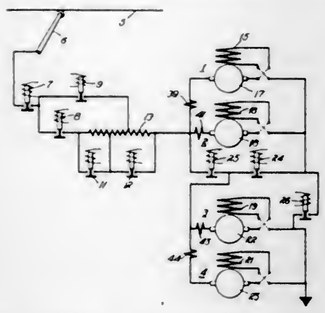
1. In an electric switch for use with a warning horn, the combination of a press button, a resistance, a first pair of contacts adapted when the button is lightly pressed to include in the circuit said resistance, and a second pair of contacts adapted when the button is more firmly pressed to exclude said resistance from the circuit, substantially as set forth.

1,477,376. GRINDING MILL FOR ROCKS, ORES, AND LIKE MATERIAL. EDWARD H. MOYLE, Los Angeles, Calif. Filed June 18, 1919. Serial No. 305,123. 12 Claims. (Cl. 83—9.)



1. In a pulverizing mill having an operating cylinder with hollow bearing means, the combination of a flat surface rotor ring shoe having curved feed and discharge openings therein formed from the inner surface of rotor ring shoe to the outer flat surface of rotor ring shoe, a ring die surrounding the rotor ring shoe with flat die surface of a greater diameter than the outer flat surface of rotor ring shoe, the ring die removably fastened to cylinder of mill bearing, means for supporting and operating the cylinder of the mill, means for feeding the rock ores or like material through the bearing means for supporting operating cylinder, to the feed openings in rotor ring shoe, and means for discharging the pulverized product from the mill through the other bearing means for supporting the operating cylinder.

1,477,377. SYSTEM OF CONTROL. HENRY D. MURDOCK, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 30, 1921. Serial No. 456,859. 12 Claims. (Cl. 172,179.)



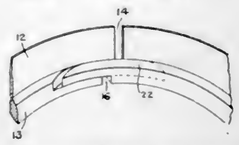
1. The combination with a plurality of motors and means comprising a controller having a plurality of positions for energizing said motors, of means for de-energizing said motors, said means comprising a plurality of actuating coils respectively connected in series relation with said motors, and means for preventing said de-energizing means from becoming inoperative until after said controller has been actuated to a predetermined position.

1,477,378. DEFORMED REENFORCING BAR FOR CONCRETE. CARL G. OHLSON and ALFRED E. JUPP, Youngstown, Ohio. Filed Sept. 21, 1921. Serial No. 502,185. 7 Claims. (Cl. 72—111.)



2. A deformed concrete bar having a plurality of rows of surface undulations so arranged that the transverse sectional area of that portion lying between planes cutting the center line of adjacent rows is substantially uniform throughout the length of the bar, the undulations varying transversely in curved lines across the face in each said portion, substantially as described.

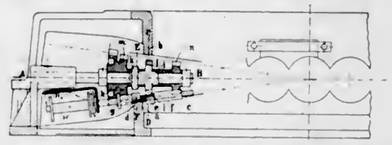
1,477,379. PROCESS OF MANUFACTURING ONE-PIECE PACKING RINGS. GEORGE W. OLNEY, Minneapolis, Minn. Filed Mar. 21, 1921. Serial No. 454,143. 1 Claim. (Cl. 29—156.6.)



The process of manufacturing one piece packing rings which consists in providing a blank ring having an internal annular flange at one of its ends, step-cutting

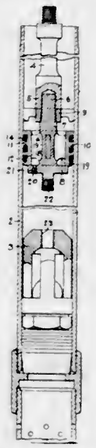
said ring so that one of the step cuts extends through the body portion of the ring and into the flanged portion thereof and the other step cut extends through the remainder of the flanged portion, internally milling said flanged portion on both sides of the first mentioned step cut to enlarge this portion to the diameter of the body portion of the ring, providing a tongue adapted to fill in said milled out portion and welding said tongue at one end in said milled out portion whereby said tongue will be positioned above and adajacent the second mentioned step cut.

1,477,380. MACHINE FOR GUIDING BOBBINS IN RUNNING PATHS. ALFRED ORTHMANN, Barmen, Germany, assignor to Barthels Manufacturing Co., Glendale, N. Y., a Corporation of New York. Filed Aug. 30, 1921. Serial No. 497,078. 11 Claims. (Cl. 96—8.)



6. In a braiding machine, annular guide plates, bobbin carriers, a raceway for guiding the bobbin carriers formed in the margins of said annular guide plates and bobbins on the bobbin carriers disposed at the exterior of the annular guide plates.

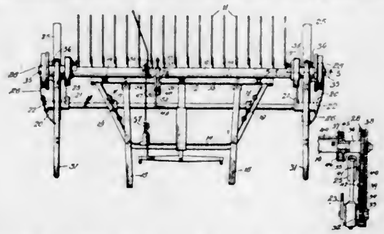
1,477,381. PUMP VALVE. VICTOR H. PALM, Butler, Pa. Filed Aug. 6, 1921. Serial No. 490,402. 9 Claims. (Cl. 103—225.)



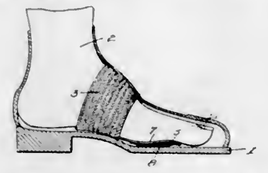
1. In a pump, the combination with the working-barrel, of an integral tubular valve-sleeve engaging the walls thereof, a valve adapted to seat against the lower surface of said valve-sleeve, a valve-stem connected to said valve, a centering spider connected to said valve-stem above said valve-sleeve, having a plurality of radial projections forming a stop, and means for reciprocating said valve-stem.

1,477,382. HAYRAKE. CHARLES PEARSON, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Feb. 24, 1919. Serial No. 278,703. 13 Claims. (Cl. 56—391.)

1. In a hay rake, a rake head, rake teeth carried thereby, a constantly rotating member journaled on said rake head, means for connecting said rake head to said constantly rotating member, and constantly actuating means located in a plane below said constantly rotating member.



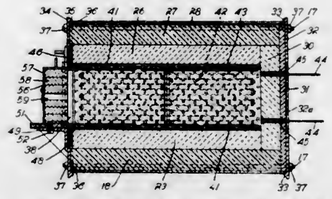
1,477,383. ARCH SUPPORT. HENRY C. PFISTER, Great Falls, Mont. Filed Sept. 18, 1922. Serial No. 588,859. 8 Claims. (Cl. 36—71.)



1. An arch supporter comprising a flexible sole member formed with a contracted rear portion and an enlarged forward portion, an upright resilient band connected to the contracted rear portion of said sole member, means to provide on the lower face of the enlarged portion of said sole member a pocket opening rearwardly, and a cushioning element mounted in said pocket and of a contour to provide said sole member with convex supporting surfaces.

8. An arch supporter comprising a sole member having a contracted rear portion and an enlarged forward portion, a resilient band connected to and extending transversely with respect to the lower face of the contracted portion of said sole member and projecting upwardly therefrom, means secured to the lower face of the enlarged forward portion of said sole member to provide in connection therewith a rearwardly opening pocket, and a cushioning element mounted in said pocket and extending against the lower face of said sole member and constituting means to provide convex supporting surfaces.

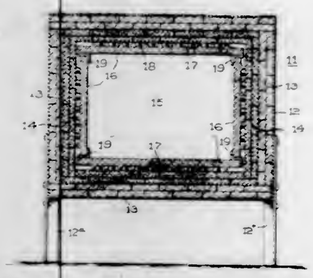
1,477,384. ELECTRIC-RESISTANCE FURNACE. THOMAS A. REID, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 23, 1922. Serial No. 538,541. 5 Claims. (Cl. 204—64.)



1. An electric furnace structure comprising an open ended and open top metallic casing, a removable metallic top plate for said casing interlocked therewith, an outer base plate, two spaced apart outer side plates, and an outer top plate inside of said metallic casing, all of said plates being of refractory heat-insulating material, an inner base plate, a pair of spaced-apart inner

side plates and an inner top plate, all located inside of said heat-insulating plates and comprising refractory high-temperature resisting material, and spaced apart to provide a furnace chamber, and a heating element for said furnace chamber comprising a plurality of relatively thin refractory plates constituting a lining for said furnace chamber and a resistor member held in proper operative position in said furnace structure by said thin refractory plates in co-operation with the plates constituting the inner lining.

1,477,385. ELECTRIC FURNACE. THOMAS A. REID, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 23, 1922. Serial No. 538,543. 5 Claims. (Cl. 204—64.)



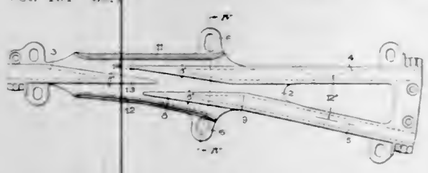
1. In an electric furnace, in combination, a plurality of walls enclosing a furnace chamber, a plurality of relatively thin refractory plates constituting the lining of said chamber, and relatively thin, shaped, refractory members located between the adjacent edges of the refractory plates, and independent of said walls for maintaining them in proper operative positions relatively to each other.

1,477,386. TROLLEY-WIRE SPLICER. WILLIAM SCHAAKE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 7, 1922. Serial No. 527,559. 10 Claims. (Cl. 191—44.1.)



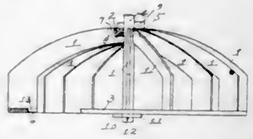
1. A trolley-conductor-supporting device comprising a plurality of integrally cast clamping portions having a reinforcing member of different material cast therewith.

1,477,387. TROLLEY FROG. WILLIAM SCHAAKE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 7, 1922. Serial No. 527,561. 14 Claims. (Cl. 191—38.)



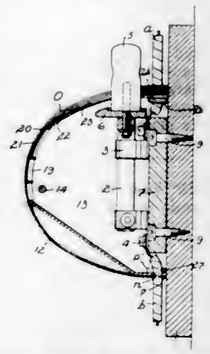
1. A trolley frog comprising a plurality of alined guide portions having tandem-related parts and an additional guide portion in plural angular relation thereto.

1,477,388. FORM. WADE E. SACKNER, Grand Rapids, Mich. Filed Feb. 12, 1923. Serial No. 618,499. 5 Claims. (Cl. 28—1.)



1. In a structure of the character described; a plurality of form members; a pair of laterally spaced supporting members respectively having means engaging the form members adjacent their ends for removably holding the form members in angularly spaced relation; a centrally disposed rod detachably connecting the supporting members in their holding engagement with the form members.

1,477,389. GUARD FOR ELECTRIC SWITCHES. ANDREW SAMBORSKY, St. Louis, Mo. Filed May 5, 1921. Serial No. 466,934. 2 Claims. (Cl. 200—168.)



2. A switch guard comprising a housing enclosing the switch, the switch handle operating through an opening in the housing, and a series of overlapping plates positioned over said opening, said plates having sliding movement relative to one another to maintain said opening closed during movement of the switch handle.

1,477,390. BRUSH. SARA SLOAN, Denver, Colo. Filed Nov. 13, 1922. Serial No. 600,546. 1 Claim. (Cl. 15—167.)

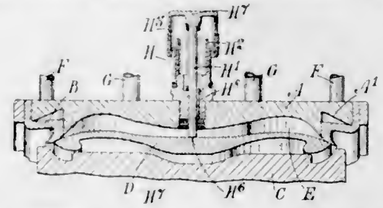


A brush whose transverse section is formed in the shape of an inverted Y, the stem thereof forming a handle for the two angularly related sides, a plurality of rows of bristles on the adjacent surfaces of the angular sides, said bristles extending in a direction substantially parallel to the plane of the handle.

1,477,391. APPARATUS FOR USE IN THE MANUFACTURE OF RUBBER GOODS. THOMAS SLOPER, Devizes, England. Filed Jan. 11, 1923. Serial No. 611,992. 10 Claims. (Cl. 18—2.)

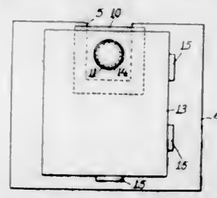
1. In apparatus for use in manipulating endless "flat" expansible bands, the combination with a co-operating member having an annular face whereof the general

axial direction is parallel to a throughway axis of the member, and two annular sealing members carried thereon, one on each edge thereof, and arranged to make sealing contact with the edge portions of a band and thereby form a closed annular chamber whereof the said



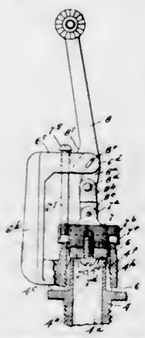
band constitutes a flexible wall, of engaging means mounted in said co-operating member, restrained to move in a path approximately radial to said chamber, and adapted to engage the band and thereby prevent it from moving laterally as it moves towards said face, substantially as set forth.

1,477,392. METHOD OF AND APPLIANCE FOR REGISTERING. CLARENCE R. SMITH, Winthrop, Mass. Filed Feb. 23, 1923. Serial No. 620,750. 3 Claims. (Cl. 101—407.)



1. The method of registry consisting in fastening a thin sheet in the path of the impression members of a press, impressing said sheet, illuminating the under surface of the latter, registering with said impression a sheet of the printed matter designed to be impressed, and providing means for positioning said printed sheet and consequently the remainder of the printed sheets.

1,477,393. BALL COCK. IRA E. STUMP, Cleveland, Ohio, assignor of one-half to Obed C. Billman, Cleveland, Ohio. Filed Jan. 3, 1922. Serial No. 526,513. 20 Claims. (Cl. 137—104.)

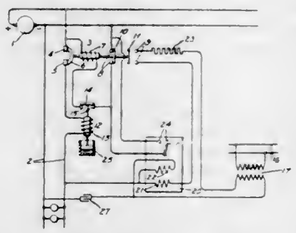


12. A ball cock, comprising an inlet member provided with spaced exterior vertically extending threaded sections forming intervening recesses, a valve housing threaded on said sections and conjointly with said recesses forming intervening underflow ports, said valve housing being provided with a communicating refill opening at one side, a reciprocatory valve in said housing arranged to open and close said inlet member and open and close communication between the latter and said underflow ports, and lever and link mechanism operatively connected to said valve.

1,477,394. ART OF FILTRATION. HARRY S. THATCHER, Los Angeles, Calif., assignor to The Celite Company, Los Angeles, Calif., a Corporation of Delaware. Filed Aug. 6, 1923. Serial No. 656,112. 22 Claims. (Cl. 252—2.)

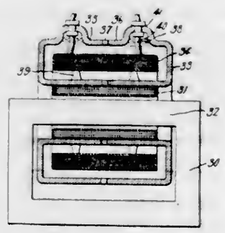
1. The method of producing a material adapted for use as a filter-aid and adsorptive agent, which consists in heating finely divided fresh diatomaceous earth to a sufficiently high temperature to increase its effectiveness as a filter-aid and absorptive agent.

1,477,395. AUTOMATIC RECLOSING CIRCUIT-BREAKER SYSTEM. OLIVER C. THAYER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 19, 1922. Serial No. 530,441. 4 Claims. (Cl. 175—294.)



1. In an automatic reclosing circuit breaker system the combination with a supply circuit, a load circuit connected to said supply circuit, a circuit breaker adapted to control the connection between said supply circuit and said load circuit and closing means for said circuit breaker of an auxiliary source of alternating current, means adapted to connect said auxiliary source to said load circuit upon the opening of said breaker and means responsive to the watts supplied to said load circuit from said auxiliary source for controlling said closing means.

1,477,396. STATIONARY INDUCTION APPARATUS. EDWARD D. TREANOR, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Feb. 3, 1920. Serial No. 356,106. 3 Claims. (Cl. 175—361.)



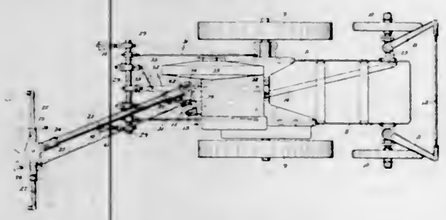
1. In an electrical apparatus, the combination with inductively related windings, of a casing comprising a metallic base portion supporting said windings and an insulating cover therefor having an integral lead insulating structure.

1,477,397. AIR CHOKE FOR CARBURETORS. FRANK UNDERWOOD, Memphis, Tenn. Filed June 8, 1922. Serial No. 566,839. 2 Claims. (Cl. 74—39.)



1. The combination with a spring controlled air valve for carburetors, of an instrument board having an opening, a tubular casing extending through said opening, a plate member carried by said casing on an incline to the axis of the same, a push rod slidably mounted through said casing, a flexible connection between the push rod and valve, and cooperating corrugated spring members carried by the casing and push rod for holding the latter in adjusted positions.

1,477,398. POWER-DRIVEN CULTIVATING MACHINE. ROBERT D. VALENTINE and FREDERICK A. VALENTINE, Minneapolis, Minn. Filed Mar. 8, 1920. Serial No. 364,011. 20 Claims. (Cl. 97—48.)

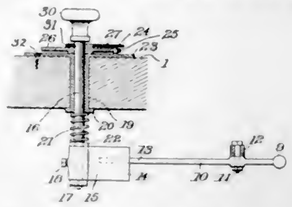


1. The combination with a main frame, of a rear pair of tractor wheels and a front pair of caster wheels having separate axles supporting said frame, a pair of cross-connected crank arms, one on each of the axles of said caster wheels, a horizontal steering crank arm on the axle of one of said caster wheels, a rearwardly extended inclined steering post pivoted to said frame for lateral swinging motion, a horizontal steering crank arm movable laterally with said steering post, and a rigid connection pivotally connecting said two steering crank arms, substantially as described.

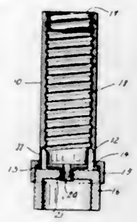
20. A power-driven cultivating machine having in combination, a pair of guide wheels at the front of the machine turnable about vertical axes to steer the machine, a laterally shiftable tool bar, a member movable to turn said wheels, and a member movable to shift said bar, both of said members being movable about a common axis.

1,477,399. SPEED REGULATOR FOR PHONOGRAPHS. MORRIS VICTORSOHN, Brooklyn, N. Y. Filed Sept. 19, 1922. Serial No. 589,046. 4 Claims. (Cl. 188—187.)

3. The combination with a governor of the character described, of a member rotatable with said governor, a brake pad, and means for adjusting said pad to be engaged by said rotatable member at different speeds of the governor, said means comprising a rotatable and axially movable shaft having a projection to actuate the pad, a perforated disk fixed to turn with the shaft, a pin to be engaged with any one of said perforations in the disk for retaining the shaft in adjusted position, and resilient means mounted around the shaft for yieldingly holding it in position for engagement of the pin by a perforation in the disk.

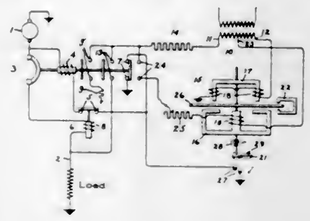


1,477,400. CONTAINER. STEPHEN M. WALKER, Oak Park, Ill. Filed Sept. 3, 1921. Serial No. 498,293. 6 Claims. (Cl. 221—79.)



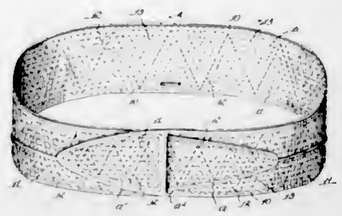
1. A device of the class described comprising an internally threaded shell, means rotatably mounted therein, a tube fixed to said means, and threads on said tube and said means co-operating with the threads on said shell for forcing said tube inward of said shell.

1,477,401. AUTOMATIC RECLOSING CIRCUIT-BREAKER SYSTEM. LUDWIG S. WALLE, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 12, 1922. Serial No. 560,459. 21 Claims. (Cl. 175—294.)



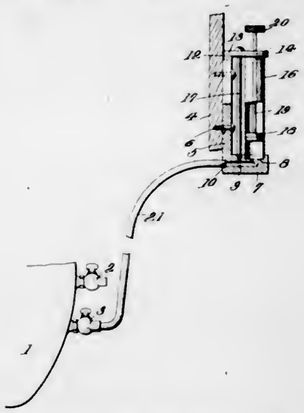
2. In an automatic reclosing circuit breaker system, the combination with a load circuit, a supply circuit, a circuit breaker for connecting said circuits together, and closing means for said circuit breaker, of an impedance, a third circuit including said impedance and said load circuit arranged to be completed when said circuit breaker is open, a relay arranged to control said closing means, said relay comprising a movable element, a current coil connected in said third circuit and a potential coil connected to said third circuit so that said element tends to move in one direction when the load resistance is above a predetermined value and tends to move in the opposite direction when the load resistance is below said predetermined value, and a circuit for said closing means arranged to be completed by said movable element.

1,477,402. MILITARY STOCK. WILLIAM H. WALDRON, Washington, D. C. Filed July 21, 1923. Serial No. 652,968. 3 Claims. (Cl. 2—67.)



1. Means for increasing the stability of a military stock or neckband comprising substantially parallel rows of stitches running approximately the length of the stock or neckband and the full width thereof with shorter lines of stitches diagonally disposed to the aforementioned rows of stitches crossing the same and also extending approximately the full length and width of the stock or neckband, said diagonal lines of stitches being in different series disposed at opposite angles with respect to the longitudinal lines of stitches.

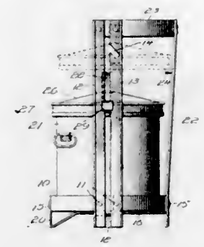
1,477,403. LIQUID-LEVEL INDICATOR. ALBERT U. WALTER, Baltimore, Md., assignor to Charles Adams Buchanan Shreve, Baltimore, Md. Filed Nov. 22, 1921. Serial No. 516,972. 3 Claims. (Cl. 73—54.)



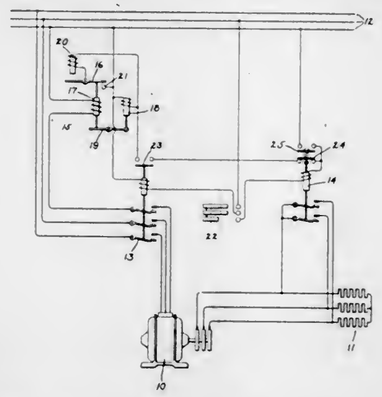
1. In a device of the class described, the combination of the engine crank case of an automobile provided with an oil level indicating exit disposed at a predetermined oil level, a pump having a visible pump chamber disposed on said automobile in convenient reach of the driver, a conduit connecting said exit and pump, said pump being constructed and arranged to lift at will a portion of the oil in said crank case into the pump chamber.

1,477,404. GARBAGE-RECEPTACLE STAND. THEODORE W. WATSON, Phoenix, Ariz. Filed Sept. 2, 1922. Serial No. 586,048. 1 Claim. (Cl. 220—1.)

A device of the class described comprising a base formed of an annular member and transverse connecting members, one of said transverse members being depressed adjacent the front of the annular member, vertical side members and a vertical rear member rising from the base, said side members having longitudinally directed guideways with lateral recesses near the upper ends and said rear member having an inwardly directed stop, a receptacle adapted to bear on the transverse base members and extending over said depression and entering the same when the receptacle is tilted forwardly, a closure for the receptacle having laterally directed projections movably engaging said guideways, said projections adapted to enter said guideway recesses to dispose the cover in position to engage the stop and be supported thereby spaced above the receptacle, and permitting the same to be tilted for removal from the base without separating the closure from the support.



1,477,405. AUTOMATIC MOTOR STARTER. LOUIS J. WEBER, Scotia, N. Y., and ERNEST C. GOOCH, Estes Park, Colo., assignors to General Electric Company, a Corporation of New York. Filed Apr. 14, 1921. Serial No. 461,190. 7 Claims. (Cl. 172—289.)

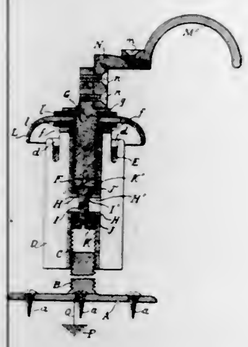


3. The combination in a system of motor control of two electromagnetic switches, a switch member mechanically held in one position against its bias to a second position, electromagnetically controlled means energized responsively to the closing of the first switch for releasing the switch member to move under the control of the motor current to the second position to energize the second switch to close, and an electromagnet energized through the switch member in the second position for holding the switch member in the second position.

1,477,406. INSULATOR. EDWARD H. WERNER, Chicago, Ill. Filed Dec. 12, 1921. Serial No. 521,915. 2 Claims. (Cl. 175—30.)

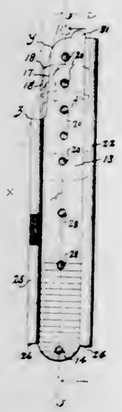
1. In an insulator, a base provided with a screw threaded standard, a sleeve of insulating material mounted on said standard, said sleeve provided with an annular

groove at the upper end thereof adapted to receive and retain oil, a standard mounted in said last named sleeve.



and a guard rigidly mounted on said last standard between disks of insulating material, all combined as set forth.

1,477,407. HANDLE FOR DETACHABLE KNIFE BLADES. RUSSELL WHITCOMB, New York, N. Y., and FREDERICK GOERTZ, Newark, N. J., assignors to August Goertz & Co., a Corporation of New Jersey. Filed June 23, 1922. Serial No. 570,302. 7 Claims. (Cl. 30—10.)



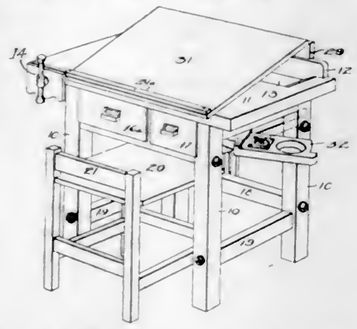
1. A handle for detachable perforate cutting blades, comprising a pair of body portions arranged face to face, one of said body portions having adjacent to its free end a plurality of inwardly projecting studs with which a perforate blade may be selectively engaged for variously longitudinally adjusted cutting position, the other of said body portions having a corresponding plurality of perforations to receive the ends of said studs, and means slidably cooperating with the longitudinal edges of said body portions to operatively interlock the same together in holding relation to the cutting blade.

1,477,408. SHOEHORN. DWIGHT O. WILLIAMS, Galion, Ohio. Filed Jan. 3, 1922. Serial No. 526,508. 4 Claims. (Cl. 132—7.)



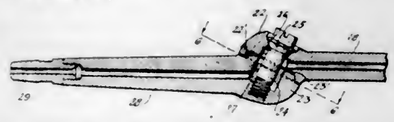
1. A shoe horn comprising a suitably curved stamping, having a bottom end materially less in width than the top end.

1,477,409. ARTWORK DESK. ROY C. WOOLMAN, Des Moines, Iowa, assignor of one-half to John W. Studebaker, Des Moines, Iowa. Filed Feb. 13, 1923. Serial No. 618,872. 4 Claims. (Cl. 45—6.)



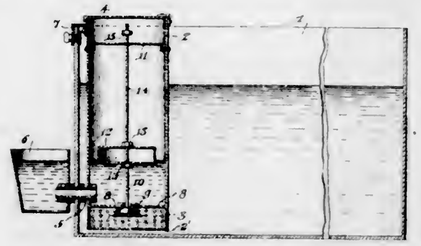
1. An art work desk comprising a top, an upright member slidably mounted at the back of said desk entirely clear of the top surface of the top, means for locking said upright member in different positions of its vertical, sliding movement, a cross bar at the upper end of said upright member, a drawing board, double acting hinges for pivotally mounting one end of said drawing board on said cross bar, whereby said drawing board may hang downwardly behind the desk or may be swung over to inclined position with its forward part supported by the forward part of the top, the drawing board being narrower from side to side than the top and being arranged so as to leave projecting portions of the top on each side of the drawing board.

1,477,410. TORCH. FRED G. WURL, Milwaukee, Wis. Filed Oct. 28, 1922. Serial No. 597,456. 8 Claims. (Cl. 158—27.4.)



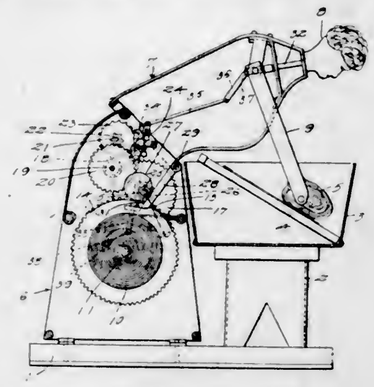
1. A torch of the type described provided with a discharge tube, a nozzle head comprising a part integral with said tube and a part adjustably mounted thereon, a central chamber formed within said parts, a member extending through said chamber and one of said parts forming an air-tight connection with said part and engaging the other part for adjustably fastening said parts together, and a nozzle on said adjustable part in constant communication with said tube through said chamber.

1,477,411. STOCK-WATERING TROUGH. JAMES C. AAGAARD, Ord, Nebr. Filed Feb. 6, 1923. Serial No. 617,332. 2 Claims. (Cl. 119—80.)



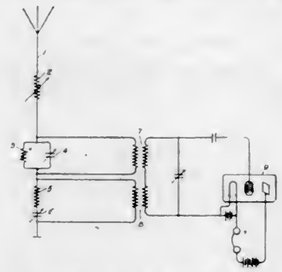
1. In a stock waterer, the combination with a supply tank, of a vertically positioned closed cylindrical receptacle supported therein at one end thereof and provided with a diaphragm in proximity to its bottom to form a water inlet chamber, the wall of said chamber being perforated throughout, a valve seat carried by said diaphragm and extending into said chamber, a valve head positioned against said seat for controlling the passage of water from said chamber and having a screw-threaded stem extending upwardly centrally of said receptacle, an adjustable float member carried by said stem, guide means for the upper end of said stem, positioned below the upper end of the receptacle, a screw threaded tubular member passing through the side wall of said tank, and communicating and connecting at its inner end with the said receptacle, and a drinking trough at the outer end of and communicating with said tubular member.

1,477,412. MECHANICAL-FIGURE TOY. ROBERT R. ADAMS, Cincinnati, Ohio. Filed Nov. 7, 1922. Serial No. 599,572. 3 Claims. (Cl. 46—40.)



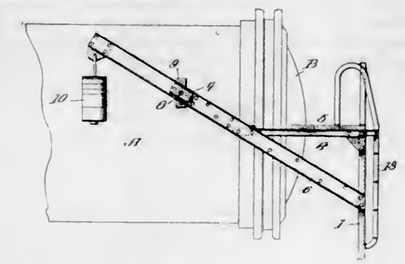
1. In a device of the character specified, a figure including a pivoted portion and a head carried by the pivoted portion and mounted to receive an independent rotary movement, a drive member including a continuously toothed portion and an interrupted toothed portion, actuating means for imparting a vibratory movement to the pivoted portion of the figure including a cam adapted to be intermittently driven by the interrupted toothed portion of the drive member, and actuating means for effecting a turning of said head and including a cam associated with the continuously toothed portion of the drive member, the parts being disposed whereby to effect a turning of the head during the intervals of rest between the vibrations of the pivoted portion of the figure.

1,477,413. RADIO RECEIVING SYSTEM. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 24, 1921. Serial No. 480,220. 3 Claims. (Cl. 250—20.)



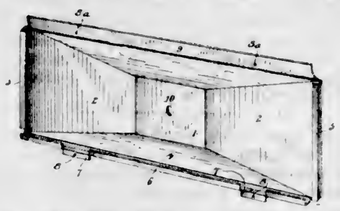
1. Means for eliminating disturbing effects in a radio receiving system comprising a receiving antenna, a multiple tuned circuit connected to said antenna which is resonant to the frequency of the disturbing effect to be eliminated, a series tuned circuit connected to said antenna which is also resonant to the frequency of the disturbing effect to be eliminated, a receiving circuit and means for impressing upon the receiving circuit electromotive forces derived from both of said resonant circuits.

1,477,414. PLATFORM FOR TIMBER-PRESERVING CYLINDERS. HAROLD E. AUSTIN, Louisville, Ky., and JESSE C. COOK, Jeffersonville, Ind., assignors to American Creosoting Company, Louisville, Ky., a Corporation of Indiana. Filed Dec. 8, 1922. Serial No. 605,727. 6 Claims. (Cl. 304—1.)



1. In combination with a timber preserving cylinder, and a door therefor, a platform, and counterbalanced means for swingingly supporting the platform for movement to and from the path of opening movement of the door.

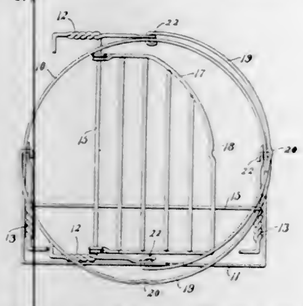
1,477,415. ILLUMINATED AUTOMOBILE LICENSE PLATE. MARIA BALOGH, Buffalo, N. Y. Filed Mar. 29, 1923. Serial No. 628,531. 3 Claims. (Cl. 40—132.)



1. In an illuminated automobile license plate, a lamp casing being open and rectangular at its front side, channel flanges formed at the vertical sides of the lamp

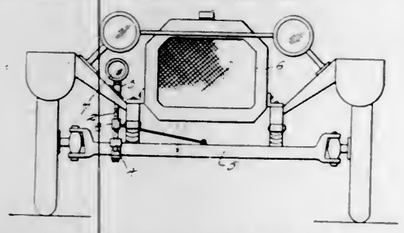
casing and upon the lower forward edge thereof, the last mentioned channel flange having depending lugs, a glass plate mounted in said channel flanges, an upstanding flange formed at the forward upper edge of the lamp casing, and a license plate secured to the depending lugs and upstanding flange.

1,477,416. RACK. WILLIAM W. BASSETT, Billings, Mont. Filed Dec. 22, 1922. Serial No. 608,550. 4 Claims. (Cl. 53—1.)



1. A rack of the character described comprising a frame like body member, supporting legs therefor, said legs being arranged in pairs and pivotally connected with the opposite sides of said body member, a rod connecting each pair of legs, said rods being crossed at a point intermediate their ends, a bottom supported by said rods and including sections, and crossed bails pivotally connected with said body member.

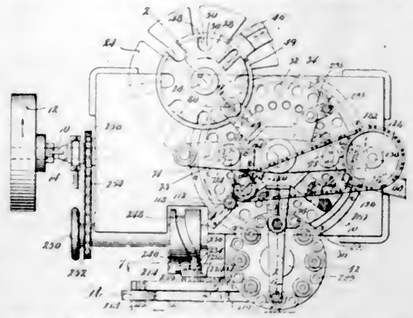
1,477,417. DIRIGIBLE HEADLIGHT FOR AUTOMOBILES AND ANALOGOUS VEHICLES. CHARLES A. BEGGS, Rice Lake, Wis. Filed Mar. 31, 1922. Serial No. 548,371. 1 Claim. (Cl. 240—62.)



In combination with a fender and a side headlight disposed above the same and an axle, a turntable upstanding lamp-carrying shaft, a lamp on said shaft below and auxiliary to the headlights, a fitting screw-threaded on said shaft for adjustment longitudinally thereof, an arm screw-threaded to said fitting at substantially a right angle to the shaft and at one end adapted to bind against the shaft, a steering-gear connecting link extending through the arm to prevent retrograde turning movement thereof relatively to the shaft and fitting, a bearing on said fender for the shaft, a bearing on said axle for the shaft, the latter bearing being directly below and adjustable with respect to the first bearing.

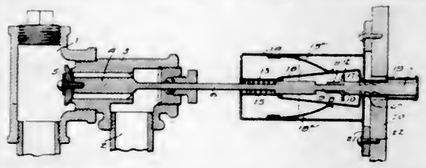
1,477,418. MACHINE FOR PROVIDING CLOSURES WITH SEALS. CARL OSCAR BERG, Everett, Mass., assignor to United Metal Seal Company, a Corporation of Massachusetts. Filed Mar. 10, 1919. Serial No. 281,840. 8 Claims. (Cl. 113—80.)

1. A machine for applying seals to bottle caps or the like having in combination, a horizontal rotary carrier provided with a plurality of pockets equally spaced about the periphery thereof capable of receiving caps provided with cushioning members, means for intermittently rotating the carrier, a vertical plunger extending axially through the carrier, means for reciprocating the plunger in timed relation to said intermittent movement of the



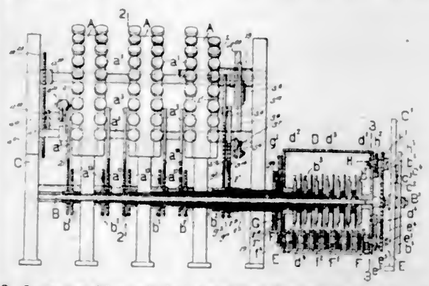
carrier, a rotary tool carried by the plunger for forming an annular scoring in the cushioning members as the caps are successively presented thereto by the carrier, and means for rotating said tool comprising a vertically stationary gear having a vertical axis connected to said tool through telescoping members.

1,477,419. VALVE-ACTUATING MECHANISM. AUGUST G. BERTRAM, New York, N. Y. Filed Aug. 14, 1922. Serial No. 581,716. 4 Claims. (Cl. 137—139.)



1. A valve actuating mechanism which includes a stem having a plurality of notches therein, latching fingers adapted to engage in the notches and restrain the movement of the stem in one direction, and means carried by the stem to disengage the fingers from the notches after the stem has been moved a predetermined distance.

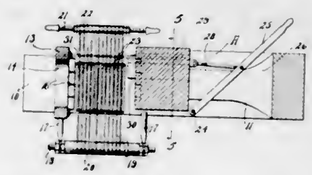
1,477,420. CASH REGISTER OR CALCULATING MACHINE. ERNST BREITLING, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Mar. 10, 1922. Serial No. 542,765. 4 Claims. (Cl. 235—6.)



3. In a machine of the character described, a casing, a drum normally stationary and adapted to be rotated for the purpose of reading, totalizing counters swingingly arranged in the said drum and comprising each a shaft, counting disks in the drum adapted to be engaged by the

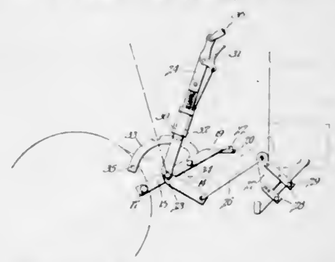
totalizing counters, a disk rigidly connected to the drum and serving to adjust the totalizing counters for setting them to zero and reading them, key-holes in said disk, said key-holes being arranged co-axially with relation to the shafts of the totalizing counters when same are disengaged from the counting disks, a stop on one of the casing-walls, a key adapted to be inserted to a certain extent into one of the said key-holes and moved onto the said stop for the purpose of rotating the drum and setting the totalizing counters, and the key being thereafter adapted to be inserted to a larger extent so as to engage with one of the shafts of the totalizing counters for setting the same to zero-position.

1,477,421. POTATO KNIFE. HARRY BROOKS, Uniontown, Pa. Filed June 22, 1923. Serial No. 647,195. 3 Claims. (Cl. 146—78.)



1. A potato cutting device comprising a frame like supporting structure having an opening at one end, a cutting frame supported by said end at one side of the opening, and including spaced vertical and horizontally disposed blades, means for supporting a potato on said structure, means for forcing the potato through the cutting frame, and means for slicing the potato transversely into a plurality of pieces prior to forcing the potato through the cutting frame.

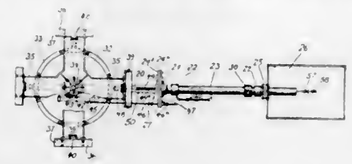
1,477,422. TRACTOR CLUTCH CONTROL. JOHN H. BRYAN, Moline, Kans. Filed Apr. 16, 1921. Serial No. 461,787. 1 Claim. (Cl. 74—81.)



The combination with a tractor clutch lever, of an upwardly and forwardly extending arm, means for securing one end of the arm to the tractor, a notched segment having one end secured to the arm and its opposite end secured to the tractor, a hand lever pivotally mounted upon the arm, a spring latch carried by the hand lever for engagement with the notched segment to hold said lever in position and means operatively connecting the hand lever to the clutch lever, whereby the latter may be operated.

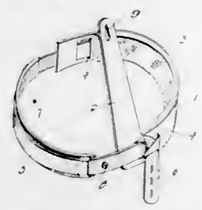
1,477,423. APPARATUS FOR MAKING CHILLED CASTINGS. JUDSON BUCHANAN, Chattanooga, Tenn., assignor, by mesne assignments, to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Sept. 3, 1920. Serial No. 407,850. 11 Claims. (Cl. 22—77.)

1. In a casting machine, the combination of a revoluble support provided with a seat adapted to successively receive a series of flasks containing the matrix section of a mold, a permanent chill section of a mold forming one wall of a hollow head and supported on a second seat, means for circulating a fluid within said head, and means



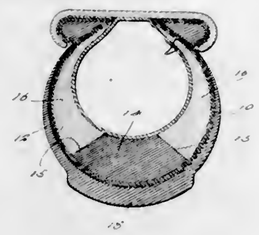
for causing approach and recession of the seats to close and open the succession of molds formed by said chill section and the respective flasks.

1,477,424. HOSE SUPPORTER. JOHN CALLAN, Ray, Ariz. Filed June 29, 1921. Serial No. 481,372. 1 Claim. (Cl. 241—6.)



A hose supporter comprising a semi-circular band of rigid material, a rigid upwardly and forwardly inclined arm formed integral with and at one end of said band, said arm having means at its upper end to engage the top of the hose to support the same, and a strip of elastic extending between the ends of the band and cooperating with the band to form a circular garter to support the lower part of the hose and the upwardly inclined arm.

1,477,425. TIRE. RALPH FRED CATALDO, Chelsea, Mass. Filed June 26, 1922. Serial No. 570,795. 2 Claims. (Cl. 152—10.)

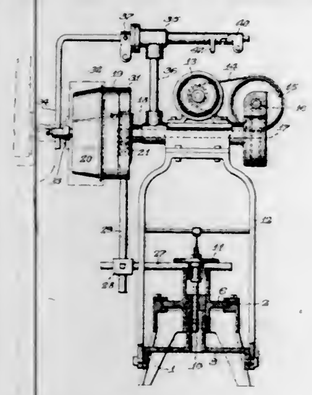


1. A tire liner comprising a relatively thick compressible strip of V-shape in cross section and having its opposite sides bevelled and adapted to be interposed between a pneumatic tire and its shoe at the crest thereof, and tapered side walls arranged between the pneumatic tire and tread and disposed against the bevelled surfaces of the strip.

1,477,426. POLISHING MACHINE. GUSTAVE A. CARLSON, Detroit, Mich. Filed Aug. 19, 1920. Serial No. 404,647. 3 Claims. (Cl. 51—91.)

2. A work holder mounted for rotation and having a portion to engage the interior of hollow work, and a clamping member comprising an L-shaped arm mounted

to engage the exterior of the work at the axis of rotation, a bracket in which the arm is slidably mounted, a



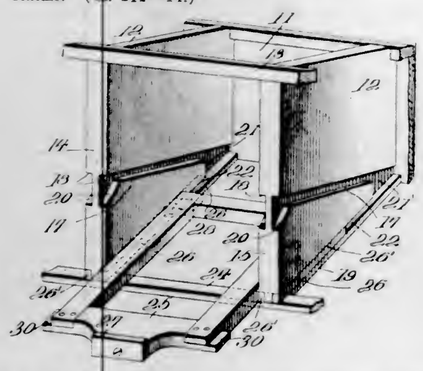
clamping head on one portion of the arm, and a cam on the other portion of the arm to force the clamp head into contact with the work.

1,477,427. CROCHET NEEDLE. EDNA M. CHRISTENSEN, Winner, S. Dak. Filed Feb. 15, 1921. Serial No. 445,201. 2 Claims. (Cl. 66—17.)



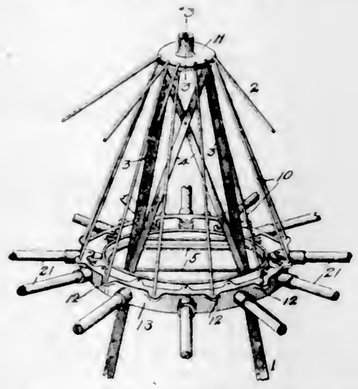
1. A crochet needle having a flattened portion intermediate its ends approximating in length one half of the length of the needle and a centrally arranged longitudinally extending groove in opposite sides of said flattened portion having the wall thereof curved transversely.

1,477,428. SHOW CASE. JOHN A. CORBETT, Los Angeles, Calif. Filed Sept. 13, 1922. Serial No. 587,937. 5 Claims. (Cl. 211—14.)



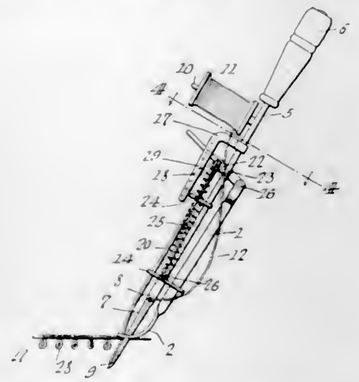
1. A show case comprising a compartment, a sliding tray therein, said compartment having two sets of slots having their rear ends communicating, and lugs carried by the rear end of said tray and adapted to travel in one set of slots, and lugs carried by the outer ends of the tray and adapted to travel in the upper set of slots whereby the tray may be supported in two tilted positions.

1,477,429. BEARING DEVICE FOR CIRCLE SWINGS. WILLIAM ADAM COLGATE, Garden City, N. Y. Original application filed Aug. 26, 1920, Serial No. 406,066. Divided and this application filed Oct. 3, 1921. Serial No. 505,148. 1 Claim. (Cl. 46—27.)



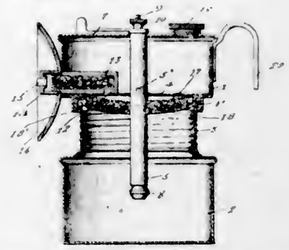
In a device of the character described, a supporting frame, a bearing ring positioned about said support intermediate the height thereof, a bearing disk at the upper end of said support, a carrier disk rotating upon said bearing disk, a carrier ring positioned about said bearing ring and having inner gear teeth, ears extending outwardly from said carrier ring, hanger rods connected with said ears and said carrier disk and suspending said carrier ring, bar carrying sockets extending outwardly from said carrier ring in staggered relation to said ears, bearing brackets extending inwardly from said carrier ring above said gear teeth, rollers rotatably carried by said brackets and engaging the outer face of said bearing ring, a vertically disposed drive shaft, and a pinion carried by said drive shaft and meshing with the gear teeth for imparting rotary movement to said carrier ring.

1,477,430. EMBROIDERY TOOL. CLAUD L. CREIGHTON, Megargel, Tex. Filed Aug. 30, 1921, Serial No. 496,835. Renewed Nov. 10, 1923. 2 Claims. (Cl. 112—80.)



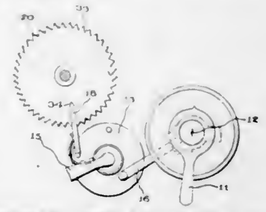
1. In a tool of the class described, a body; a needle mounted to reciprocate on the body; a lever fulcrumed on the body; a holder mounted to slide on the needle and pivotally connected with the lever; a retractile spring being connected to the needle and exerting a pull on the holder and the lever; and a projection carried by the needle and located in the path of the lever.

1,477,431. MINER'S CARBIDE LAMP. HENSON DAVIS, Roundup, Mont. Filed Dec. 22, 1919. Serial No. 346,446. 1 Claim. (Cl. 48—4.)



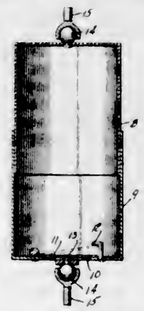
A lamp of the class described comprising a water chamber and a carbide chamber, a water tube passing through the water chamber and into the carbide chamber, a valve at the loewr end of said tube, said valve having a triangularly shaped part formed integral with the valve, a valve stem passing through the water tube, means for bodily moving said stem and valve vertically to open and close the valve and independent means for rotating said stem and valve horizontally to cause said triangular part to scrape the interior of the water tube.

1,477,432. ANTITHEFT LOCK. PETER DONZERO, Clinton, Ind. Filed Feb. 12, 1923. Serial No. 618,530. 3 Claims. (Cl. 70—66.)



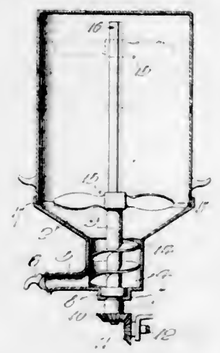
1. The combination with a rotatable element having a key hole slot, means for obstructing said slot, said means including a disk mounted for rotation, an element pivoted on said disk and adapted to be positioned to traverse said key hole slot incident to the rotation of the disk in one direction, and means for preventing rotation of the disk in an opposite direction, susceptible of adjustment to permit said element to be moved to an inactive position.

1,477,433. AUTOMOBILE SPRING REGULATOR. WILLIAM C. ENGEL, Ashland, Pa. Filed Dec. 20, 1921. Serial No. 523,687. 2 Claims. (Cl. 188—88.)



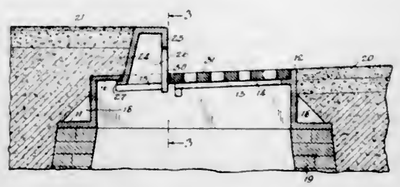
1. The combination with the chassis, axle and spring of a vehicle, of two cylinders, each having an open end and telescoping one in the other, one of the cylinders having an opening in its closed end, a flap valve on the inner face of the end of the cylinder and closing said opening, the valve being provided with a small opening and means for securing one cylinder to the chassis and the other to the axle.

1,477,434. DISPENSING MACHINE. CORNELIUS S. ENRIGHT, Cle Elum, Wash. Filed July 14, 1921, Serial No. 484,731. Renewed May 9, 1922. Serial No. 559,589. 15 Claims. (Cl. 259—43.)



1. A dispensing device including a hopper for receiving an inverted open receptacle, a vertical shaft journalled in the hopper and extending above the hopper for extending up into the receptacle carried thereby, a spiral feed carried by said shaft for feeding material out of an outlet of the hopper, and a paddle freely slidable upon the shaft and held against rotation thereon, the paddle having radiating blades pitched in an opposite direction to the pitch of the spiral feed.

1,477,435. SEWER-BASIN HEAD. JOHN JOSEPH FAGAN, Jersey City, N. J. Filed Mar. 7, 1923. Serial No. 623,472. 5 Claims. (Cl. 182—6.)

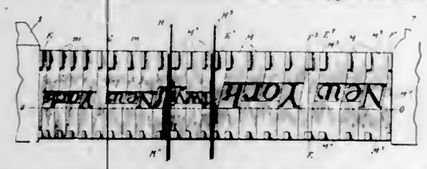


1. A sewer basin head, comprising a body having an opening therethrough, said body presenting walls defining the opening, a cover extending over the rear section of the opening, supporting members carried by said walls and extending inward, a curb section provided with a rearwardly extending flange mounted on the supporting members, said flange projecting beneath the cover over the rear section of the opening, and a grating for mounting in the front section of the opening, said grating serving to fix the curb section in position in the body.

1,477,436. MATRIX FOR TYPOGRAPHICAL MACHINES. HERMAN R. FREUND, Brooklyn, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 19, 1921. Serial No. 508,654. 11 Claims. (Cl. 199—66.)

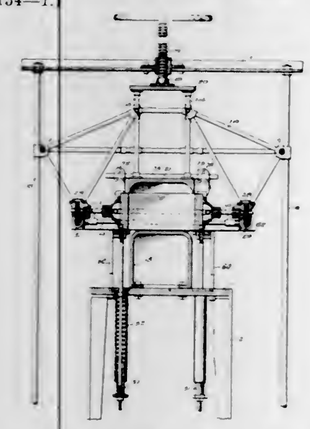
1. A matrix for use in typegraphical machines comprising upper and lower portions offset relatively to one

another and connected by an intermediate oblique character-bearing portion, in combination with upper and lower



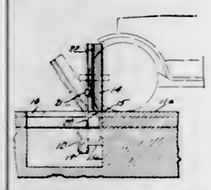
ears or lugs located in alinement with each other on the edges of the upper and lower portions of the matrix.

1,477,437. MACHINE FOR SHAPING AND FORMING FABRIC CASES. JOSEPH GAYNOR, Jersey City, N. J. Filed Aug. 15, 1922. Serial No. 582,061. 21 Claims. (Cl. 154—1.)



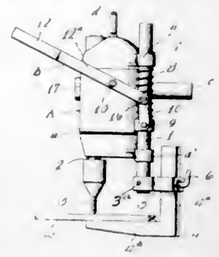
10. A device for forming fabric into cases, which includes a movable die member, a stationary die member over which the movable die member is to be disposed by progressive movement, a table on which the stationary die member is supported, a fabric gripping frame resiliently supported on said table and held in engagement with the lower edge of the movable die member, a plurality of fabric engaging chains mounted on said gripping frame adjacent the corners thereof and the corners of the movable die member, a rack gear associated with each of said chains, a plurality of rack bars mounted on the table and engageable respectively with said ratchet gears whereby the depression of the female member relatively to the table and the stationary die member will cause the movement of the chains to engage the fabric adjacent the corners of the case during its shaping to pull the fabric in a direction away from the corners of the case whereby the formation of wrinkles at these points of the case is prevented.

1,477,438. GUARD AND SIGNAL FOR RAILWAYS, ETC. ALBERT T. GOOKIN, Cambridge, Mass. Filed Oct. 6, 1921. Serial No. 505,822. 5 Claims. (Cl. 39—6.)



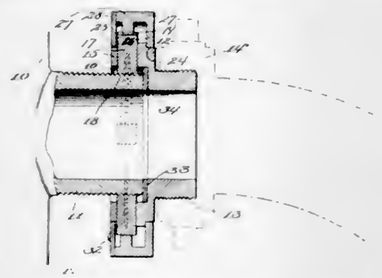
1. In a road guard of the class described, a barrier comprising separate sections hinged adjacent the road surface to be manually raised or lowered, and yieldable means mounted on a shaft in sliding contact with said barrier for raising the same and afford a recoil to the barrier when impacted.

1,477,439. PORTABLE-DRILL ATTACHMENT. HENRY WALTER GRAU, Long Green, Md. Filed Sept. 15, 1921. Serial No. 500,743. 3 Claims. (Cl. 77—6.)



1. The combination with a portable drill having a casing, of a hand lever having parallel arms pivoted to opposite sides of the casing, a draw rod slidably mounted on said casing adjacent the plane of one of said arms, and a link connecting said rod with the latter arm whereby the pivoting may be interchangeable between the casing and the link.

1,477,440. COUPLING DEVICE. FREDERICK A. GRIER, Jr., Salisbury, Md. Filed Sept. 11, 1920. Serial No. 409,516. 5 Claims. (Cl. 285—150.)

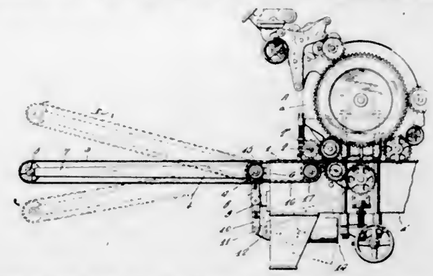


1. In a device of the class described, a coupling member having openings in the walls thereof, blocks slidably mounted in said openings having screw threads at one end and ratchet teeth at the other end, spring means tending to force said blocks in one direction, a collar rotatably mounted on said member, elements projecting from said collar having cam surfaces, said cam surfaces having ratchet teeth thereon adapted to coact with the ratchet teeth of said blocks whereby on rotation of said collar in one direction said blocks are forced in a direction opposed to said spring means and upon rotation in the opposite direction, said collar and blocks are positively locked against relative movement enforcing movement of said blocks with said collar.

1,477,441. COUNTERBALANCED TAPE DELIVERY FOR PRINTING PRESSES. JORGEN I. HAASE, Towson, and ELLWOOD A. METZ, Glenarm, Md., assignors to F. X. Hooper Company, Inc., Glenarm, Md., a Corporation of Maryland. Filed Nov. 10, 1921. Serial No. 514,386. 2 Claims. (Cl. 271—75.)

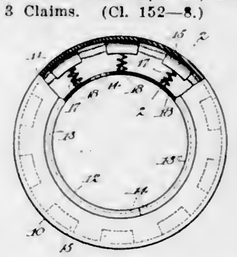
1. In a printing press having a horizontal bed, a delivery mechanism comprising a frame hinged at one end to the bed and adapted to swing vertically, a rock shaft arranged

parallel with the axis of the frame, a weighted arm secured to the said rock shaft, and connections between said



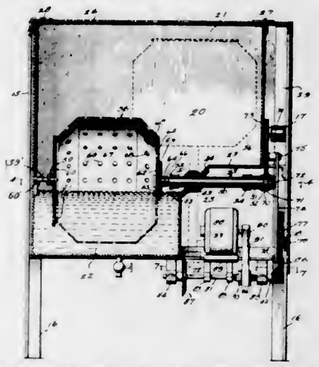
rock shaft and frame whereby an upward movement of the frame causes a downward movement of the arm, and vice versa.

1,477,442. TIRE CONSTRUCTION. HOMER H. HARRIS, Red Bank, N. J. Filed Apr. 27, 1923. Serial No. 635,081. 3 Claims. (Cl. 152—8.)



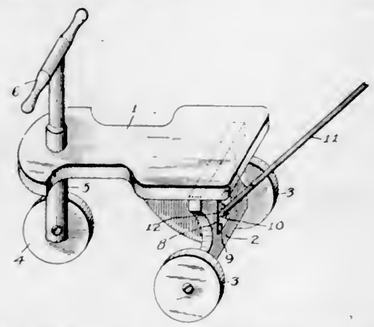
1. A tire structure comprising a casing, a rim of two sections adapted to engage said casing, a plurality of plates spaced radially and equi-distantly within said casing, yieldable elements connecting said plates with said rim and tending to force said plates against the tread of said casing, and yieldable connecting means between said plates and detachable therewith, and slots formed in the meeting ends of the rim sections to permit access to certain of said yieldable connecting means.

1,477,443. WASHING AND DRYING MACHINE. LEO B. HART, Vinton, Iowa, assignor of one-half to John W. Tobin, Vinton, Iowa. Filed Oct. 26, 1922. Serial No. 597,131. 11 Claims. (Cl. 68—18.)



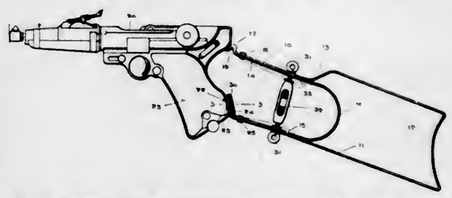
11. In a machine of the character described, a pivotally mounted support adapted to swing substantially vertically, a spindle rotatable within the support, means for shifting the support to the raised and lowered positions, a drum carried by the spindle, gear means secured to one end portion of the spindle, a driving element disposed permanently in the path of travel of said gear means for engagement therewith when the drum is shifted to the substantially horizontal position, a second driving element disposed permanently in the path of travel of said gear means to engage therewith when the drum is shifted to the substantially vertical position, and means to rotate said driving elements.

1,477,444. CHILD'S CAR. GLADYS M. LAZEAR, Kew Gardens, N. Y. Filed Oct. 10, 1922. Serial No. 593,537. 4 Claims. (Cl. 280—87.5.)



4. The combination of a child's car adapted to be propelled and steered by the child, said car having a socket at the back, a pushing pole adapted to be carried by an attendant, the end of the pole being insertible in and removable from the socket as the attendant walks behind the car, without disturbing the car or the child, and means for catching the pole in the socket.

1,477,445. AUXILIARY PISTOL STOCK. JOHN F. PETRITSCH, Reno, Nev. Filed Mar. 30, 1923. Serial No. 628,757. 4 Claims. (Cl. 42—72.)



3. A pistol stock comprising upper and lower members, a shoulder-engaging portion connecting the rear ends thereof, secondary upper and lower members secured to and adapted to bear against the aforesaid upper and lower members, respectively, near the forward ends thereof, a resilient loop connecting the secondary members between the ends of the first named members, said members having portions at their forward ends to engage a pistol, and means between said loop and forward ends of the secondary members for springing the first named and secondary members between said loop and the forward ends of said members.

1,477,446. SAFETY ATTACHMENT FOR MOUSE AND RAT TRAPS. JOHN J. REISIGER, Covington, Ky. Filed Mar. 9, 1923. Serial No. 623,915. 2 Claims. (Cl. 43—81.)

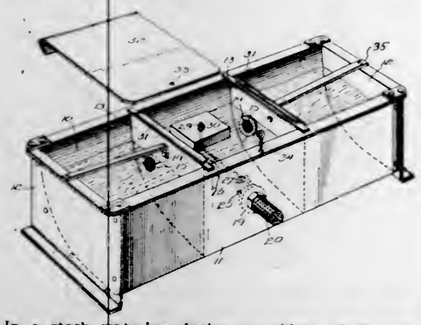
2. In a trap of the character specified comprising a base and a spring actuated jaw, a safety catch slidably mounted upon the base and comprising a length of spring wire doubled upon itself to provide upper and lower elements which are normally sprung apart, the upper

element having a depressed portion, and a hook for engaging said jaw, and the lower element being extended and terminating in a finger piece, the fold of



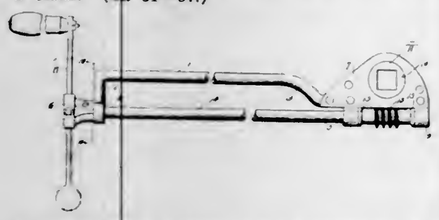
the wire being enlarged to provide a stop, and keepers applied to the base and having the catch slidably mounted therein.

1,477,447. STOCK WATERER. THOMAS RITCHIE, Oskaloosa, Iowa. Filed June 19, 1922. Serial No. 569,252. 1 Claim. (Cl. 119—80.)



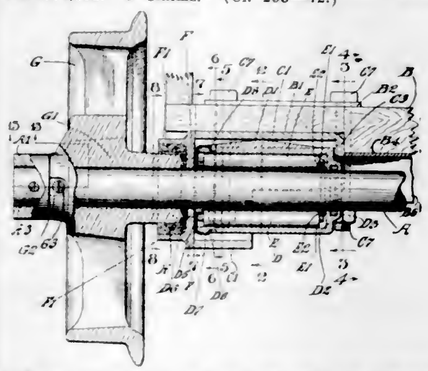
In a stock watering device, an oblong shell open at the top, transverse partitions within said shell to form the interior of the shell compartments and each partition having a transverse aperture near the top formed with a portion folded over upon itself and the folded over portion extended beyond the body of the partition at the front and rear to form supports to bear upon the front and rear rims of the shell and operating to maintain the partition in position, the portions of the partitions above the folded over portions being bent to form guideways for a closure for one of the compartments.

1,477,448. GEARED WRENCH. JOHN A. ROBERTS, Rolfe, Iowa. Filed Apr. 6, 1922. Serial No. 549,991. 1 Claim. (Cl. 81—57.)



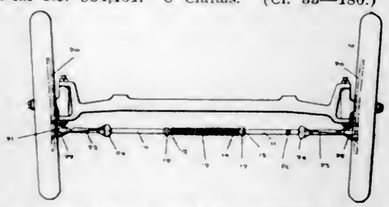
A wrench having a shaft, a bar substantially of U-shape having its legs relatively short and forming bearings integral therewith at its ends in which said shaft is journaled, said bar intermediate said bearings being offset from the shaft, said bar at one end adjacent the bearing thereof having a filling piece integral therewith and enlarged with respect to and extending in the opposite direction to the adjacent bearing, plates fastened to said filling piece on opposite sides thereof, a filling piece fastened intermediate said plates at a distance from the first mentioned filling piece, a bearing extending from the second mentioned filling piece, a socket member journaled in said plates, the last mentioned bearing extending outwardly beyond the plates and a driving connection between said shaft intermediate said bearings and said socket member.

1,477,449. HUB AND JOURNAL BOX. HUGH W. SANFORD, Knoxville, Tenn. Filed Sept. 25, 1923. Serial No. 664,651. 8 Claims. (Cl. 295—42.)



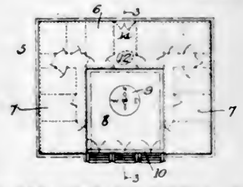
1. In a structure of the kind described, the combination of an axle, a hub on the axle, a bearing surrounding the axle, a pedestal resting on the bearing, and a thrust wall extending across and detachably secured to the pedestal between the pedestal and the hub, substantially as described.

1,477,450. WHEEL ALIGNMENT INDICATOR. ANTON I. SANDBO, Rock Island, Ill. Filed Aug. 26, 1922. Serial No. 584,481. 8 Claims. (Cl. 33—180.)



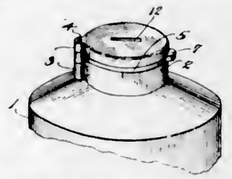
1. A wheel position indicator comprising an extensible member having bars with overlapping slidably connected portions, blades pivoted to the opposite ends of said bars, means between the blades and bars for indicating the angles between said blades and said bars, and a spring extending along said bars and arranged for yieldingly separating the opposite ends of said bars.

1,477,451. BUILDING CONSTRUCTION. MANSOUR SAMAHA, Washington, D. C. Filed Dec. 5, 1922. Serial No. 605,013. 3 Claims. (Cl. 20—1.1.)



1. A substantially U-shaped building, the open court yard of which between the wings thereof faces directly south, the connecting portion of the building being provided with openings therethrough whereby a current of air is permitted to pass through the court yard, means for closing said openings to check the flow of air, and a partition enclosing the court yard substantially in alignment with the outer face of the terminals of the wings of the building, said partition being of a lesser height than that of the building.

1,477,452. COLLAPSIBLE TUBE AND CUT-OFF THEREFOR. ARTHUR H. SAUNDERS, Richmond, Va. Filed Feb. 24, 1922. Serial No. 538,861. 5 Claims. (Cl. 221—60.)



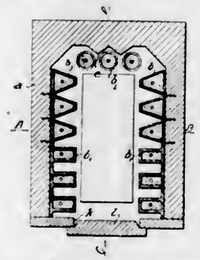
1. The combination with a collapsible tube of the class described having one end formed with a discharge opening and laterally cut to provide a seat with a diametric wall, of a closure member pivotally connected at one side to swing within said seat and engage said wall, said member being provided with a portion to cover the discharge opening of the tube.

1,477,453. TIRE. BENJAMIN H. SCHREIBER, Galveston, Tex. Filed Apr. 18, 1922. Serial No. 554,815. 1 Claim. (Cl. 152—8.)



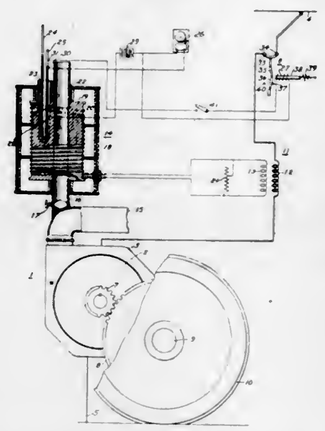
The combination with a tire casing, of a circumferential rubber strip arranged between the clencher edges of the casing and being provided with a plurality of recesses arranged adjacent the side edges thereof, a circumferential band secured to said strip, a plurality of substantially plano-convex compressible rubber block segments arranged in abutting relation at the crest of the tire casing and each of said blocks being provided with a laterally disposed recess, a coil spring interposed between each block segment and the strip respectively, a hook shaped bolt carried by each of the block segments and engaging one of the convolutions of each of the springs, said hook shaped bolts being countersunk in the respective recesses of the respective blocks, and a plurality of similar shaped bolts as the above mentioned bolts carried in the recesses of the strip and engaging one of the convolutions of each of the springs at a point substantially diametrically opposite the other hook bolt.

1,477,454. ELECTRIC HEATING FURNACE. HEINRICH SEIBERT, Berlin, Germany. Filed Aug. 16, 1923. Serial No. 657,775. 3 Claims. (Cl. 204—64.)



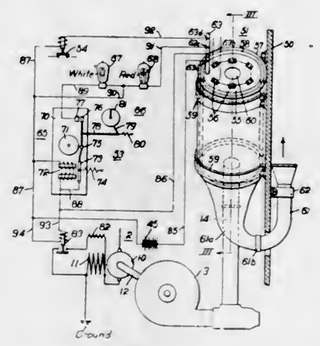
1. In an electric furnace, resistance elements comprising casings of refractory material and granular resistance material therein, said casings having their lateral faces inwardly inclined whereby wedged shaped air gaps are formed between said resistance elements.

1,477,455. ELECTRICAL SYSTEM. KARL A. SIMMON, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 18, 1917, Serial No. 162,890. Renewed Aug. 6, 1923. 13 Claims. (Cl. 175—294.)



8. In an electrical system, the combination with a translating device having a ventilating system, of a thermal apparatus controlled in accordance with both the current and the ventilating fluid traversing said device.

1,477,456. ELECTRICAL SYSTEM AND APPARATUS. KARL A. SIMMON, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 13, 1919. Serial No. 337,764. 7 Claims. (Cl. 175—294.)

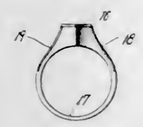


1. The combination with a translating device, of a metallic member adapted to be heated like said device and means for cooling said metallic member both internally and externally at the same rates as said device.

1,477,457. PROCESS OF MANUFACTURING RINGS. MAX SIMSON, New York, N. Y. Filed Jan. 29, 1923. Serial No. 615,709. 5 Claims. (Cl. 29—8.)

5. The process of manufacturing rings and ring findings which consists in cutting a blank to produce a pair of complementary connected shanks with integral crowns, said crowns being partially cut away on their outer

faces, bending the crowns outwardly along a line medially of the sides, then bending the shanks toward each other, joining the opposing faces of the shanks, fitting a gem



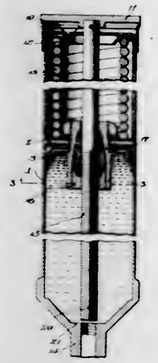
setting and inserts on the top and sides of the crown respectively and joining said gem setting and inserts to the crown.

1,477,458. PROCESS OF MANUFACTURING FINGER RINGS AND RING FINDINGS. MAX SIMSON, New York, N. Y. Filed Jan. 29, 1923. Serial No. 615,710. 6 Claims. (Cl. 29—6.)



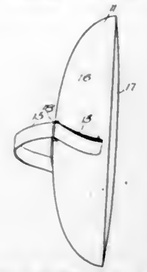
1. The process of manufacturing rings which consists of forming a shank, cutting and shaping a single piece of metal and interfitting the shaped piece of metal between the ends of the shank and on the inner side thereof to form therewith a crown or gem setting.

1,477,459. AUTOMATIC LUBRICANT-SUPPLYING MAGAZINE. BERNARD H. SKELLY, Bridgeport, Conn., assignor to Bowen Products Corporation, Auburn, N. Y., a Corporation of New York. Filed Apr. 2, 1921. Serial No. 457,918. 1 Claim. (Cl. 221—78.)



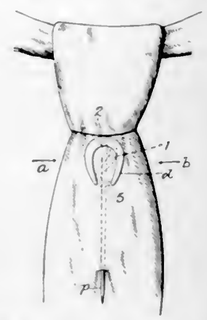
In combination with a lubricant reservoir having an outlet and a spring impelled piston for automatically ejecting the lubricant by pressure through the outlet, a rod threaded into engagement with the piston and having one end formed to close the outlet, and means connected to the rod for adjusting the position of the piston thereof by moving the rod away from the outlet so as to enable any predetermined quantity of lubricant to be ejected according to the distance which the rod has been moved from the outlet.

1,477,460. GAME APPLIANCE. HERBERT BENJAMIN SMITH, Brooklyn, N. Y. Filed June 10, 1922. Serial No. 567,248. 4 Claims. (Cl. 46—4.)



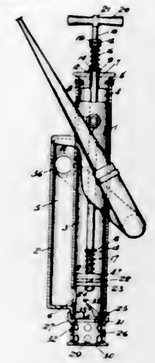
1. A game appliance in the nature of a bat including a body gibbous in cross-section.

1,477,461. ANTILOSS DEVICE FOR SCARFPINS AND THE LIKE. ELWOOD SMITH, Brewster, Wash. Filed Aug. 18, 1922. Serial No. 582,704. 5 Claims. (Cl. 24—155.)



1. An anti-loss device comprising a piece of resilient material having its end portions extending in opposite angular directions and adapted to have its intermediate portion applied to engage one side of a pin shank and its ends to engage about the opposite side of the pin shank.

1,477,462. PUMP. CHARLES HAROLD SPOONER, Princeton, Me. Filed Mar. 6, 1922. Serial No. 541,387. 5 Claims. (Cl. 299—97.)



1. A pump including a plunger cylinder and a discharge chamber communicating therewith, said discharge chamber being provided with an outlet-adjacent its upper

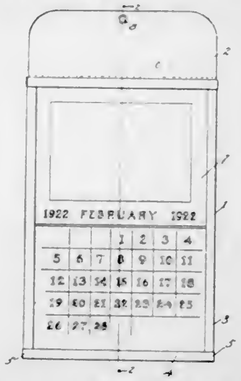
end, a boss extending laterally from the plunger chamber, the axes of said boss and outlet lying in parallel planes, a nozzle journalled on said boss and a flexible conduit connecting said nozzle and outlet.

1,477,463. CALENDAR. STEPHEN M. SPRAGENS, Cincinnati, Ohio. Filed Mar. 1, 1922. Serial No. 540,315. 1 Claim. (Cl. 40—107.)



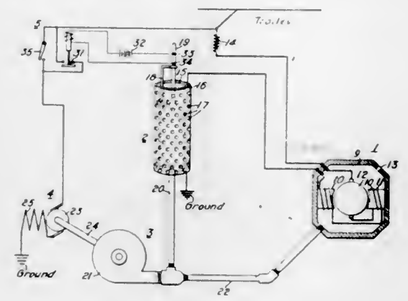
A calendar comprising a pad of leaves, a metal binding strip adapted to confine the upper edges of said leaves, cord ends secured in the ends of said binding, a card separate from the pad, a metal binding strip on the card, said binding being of substantially the same length as the pad binding strip, and engaging the cord at the ends so as to leave a rectangular space between the card and pad for a folding back of the leaves of said pad through said space.

1,477,464. CALENDAR. STEPHEN M. SPRAGENS, Cincinnati, Ohio. Filed Mar. 1, 1922. Serial No. 540,316. 1 Claim. (Cl. 40—122.)



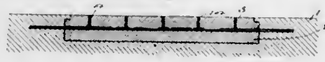
A calendar comprising a card having integral side flaps and a bottom flap of the full width of the body of the card and the side flaps and separated from the side flaps, and an extension of the width of the body of the card forming a nadvertising printing space, and a strip for forming the top of the pocket, thereby serving as a top pocket flap, said side flaps folded in toward the body of the card, and the bottom flap and top flap arranged across the card and secured to the side flaps at their upper and lower ends, thereby forming a pocket for receiving date registering leaves of the calendar, said top flap and bottom flap folded also back of the card at their ends, and there united with the card, as and for the purpose described.

1,477,465. ELECTRICAL SYSTEM. NORMAN W. STORER, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 5, 1919. Serial No. 308,742. 18 Claims. (Cl. 175—294.)



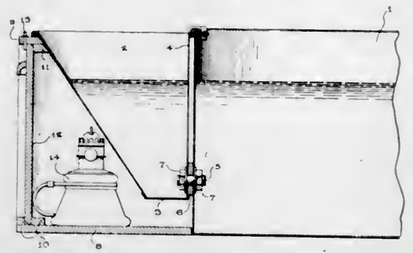
3. The combination with a translating device, of a metallic member of relatively low electrical conductivity connected in circuit with said device and having a section proportionate to the current rating of said device, and means for simultaneously delivering a ventilating fluid to said device and to said member.

1,477,466. UNCHANGEABLE MOTOR NUMBER. LOUIS P. TERHAAR, New York, N. Y., assignor of one-third to Harry Kutscher, New York, N. Y. Filed Aug. 7, 1922. Serial No. 580,242. 17 Claims. (Cl. 40—2.2.)



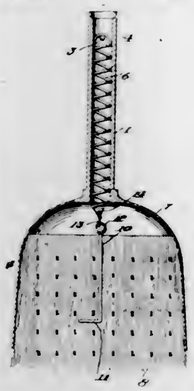
1. An unchangeable motor number, comprising a number plate having parts thereof imbedded in the motor, and transparent means enclosing the remaining parts.

1,477,467. STOCK WATERER. WILLIAM P. TURNER, Oakland, Iowa. Filed Jan. 8, 1923. Serial No. 611,426. 1 Claim. (Cl. 119—73.)



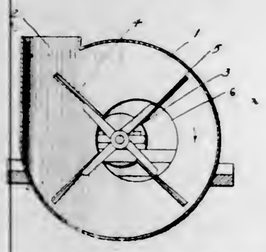
The combination with a water container having a basin connected to and receiving water from the tank, of a combined lamp house and protective housing for the basin, comprising a casing having an open inner wall and its top provided with an opening from the inner portion thereof to receive therethrough the basin when the casing is arranged next to the tank for surrounding the basin, said casing having a closed bottom and a central opening at the front thereof, spaced transverse cleats connected to the front at the bottom of the casing, an inner cleat between the top and the front of the casing, a door designed to be received between the lower cleats and to contact with the upper cleat for closing the opening, and means on the top for engaging the door for holding the same in closed position.

1,477,468. BROOM. CLAUDIUS WANSOR, Hempstead, N. Y., assignor to William B. Wansor, Locust Valley, Long Island, N. Y. Filed Sept. 13, 1922. Serial No. 588,100. 3 Claims. (Cl. 15—176.)



1. The combination of a hollow handle, a cap carried by the lower end of the handle, a head adapted to fit snugly in the cap, a holding device secured in the head and projecting above the upper end thereof, a yielding retaining member anchored in the handle, and means carried by the lower end of said retaining member to engage the upper end of the holding device and adapted to engage under the edge of the cap when the head has been removed.

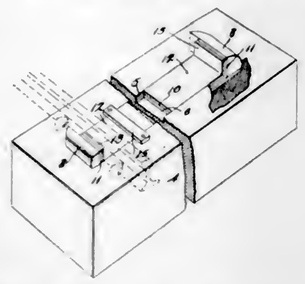
1,477,469. PNEUMATIC FAN. HALBERT C. WALLACE, Kansas City, Mo., assignor of three-fourths to Jesse I. Wallace, Kansas City, Mo. Filed Sept. 2, 1920. Serial No. 407,670. 4 Claims. (Cl. 302—37.)



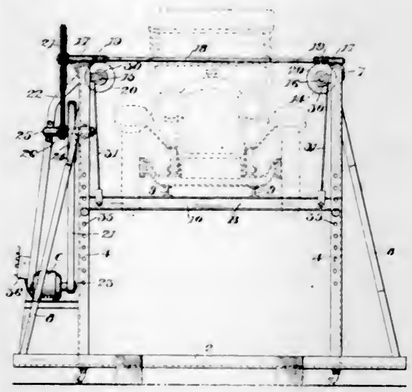
1. A fan comprising a casing having aligning, concentric inlets on opposite sides thereof, and an air impeller eccentric to the inlet openings, the blades of the impeller being slightly inclined transversely of the casing

1,477,470. RAILROAD TIE AND ANTISPREADING DEVICE. WILLIAM WARD, Sr., Brooks, Wis. Filed Aug. 27, 1921. Serial No. 495,875. 1 Claim. (Cl. 238—288.)

An anti-spreading device for rails comprising in combination, a tie provided with a longitudinally extending recess with its ends extended beneath both rails of a track, a plate of substantially the same length as the recess received in the bottom thereof, the ends of said plate being provided with upstanding transversely arranged abutment members, which extend above the edges of the rail base, strips of insulation placed upon the plate and having their inner ends spaced apart and their outer ends arranged beneath the rails and bent upwardly to contact with the inner faces of the abutment members, beyond the outer edges of the rail bases, wear plates positioned upon said insulation strips and having their inner ends spaced apart and their outer ends provided with upstanding portions clamped between the upstanding ends of the strips of insulation and the outer edges of the rail bases, the outer angular ends of the insulation plates being clamped between upstanding portions of said wear plates and said abutment member, said wear plates being arranged flush with the top of the tie, and fastening plates extending across the inner ends of the wear plates and fastened at their ends to the tie.



1,477,471. AUTOMOBILE ELEVATOR. HARVEY P. WELLMAN, Oakland, Calif. Filed Apr. 12, 1922. Serial No. 551,853. 2 Claims. (Cl. 254—144.)

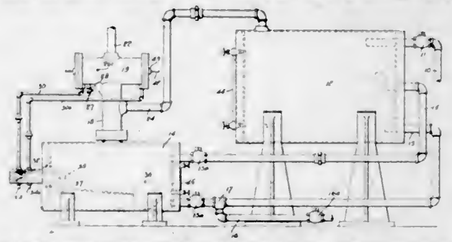


1. In an elevator of the character described a pair of vertically disposed interspaced side frames, guides for said side frames, a lifting platform disposed between the side frames and guided by said guides, a horizontally disposed shaft extending longitudinally of each side frame, lifting drums on said shaft, cables attached at one end to each drum and at their opposite ends to the lifting platform, a transverse shaft disposed between the side frames and journalled therein, a right hand worm gear drive connecting the transverse shaft with one of the longitudinal shafts, a left hand worm gear drive connecting the transverse shaft with the other shaft, and means for transmitting power to rotate the transverse shaft in one direction or another.

1,477,472. WATER FEED FOR STEAM BOILERS. WILLIAM ALBERT WHITMORE, Nelsonville, Ohio. Filed June 28, 1921. Serial No. 481,019. 9 Claims. (Cl. 137—101.)

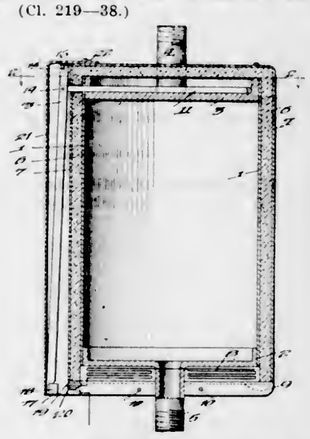
1. A water feed apparatus for steam boilers, including a trap tank, a receiving tank, a steam cylinder, a piston valve controlling communication between said

cylinder and trap tank, means to establish communication between the said cylinder and the receiving tank,



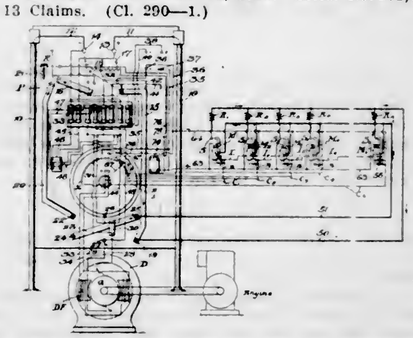
valve means controlling the exhaust from said cylinder, and means subject to the rise and fall of water in said trap tank to actuate said valve means.

1,477,473. SMALL HOT-WATER TANK, ELECTRICALLY HEATED. ANDREW WICKEY, East Chicago, Ind. Filed Nov. 16, 1922. Serial No. 601,417. 5 Claims. (Cl. 219—38.)



1. In an electric heater, the combination with a liquid container having a top and a bottom, of an electric heater at the bottom, a circuit closer for the heater at the lower end of the container including an arm hung from the upper portion thereof, and a thermostatic element at the top of the container and connected to the arm.

1,477,474. DYNAMOMETER-CONTROL APPARATUS. LEONARD R. BOGARDUS, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 16, 1919. Serial No. 271,449 13 Claims. (Cl. 290—1.)



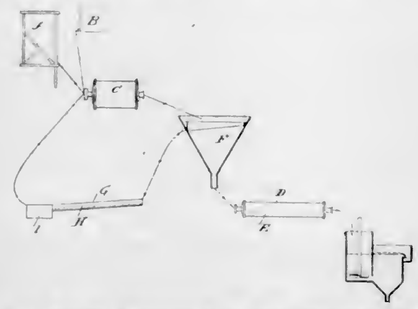
1. In a dynamometer, a switch board, a dynamo electric machine connected therewith and adapted to drive and be driven by an engine under test, a plurality of resistance elements mounted at a distance from said switch board, switch mechanism adapted to connect the armature of said dynamo-electric machine with said power mains through said resistance elements and to disconnect the power mains and connect the armature with said resistance elements, electro-magnetic switches connecting and disconnecting said resistance elements, and switch mechanism mounted on said switch board controlling said electro-magnetic switches.

1,477,475. LINK. CHARLES DE TALMOND, New York, N. Y. Filed Feb. 7, 1923. Serial No. 617,597. 5 Claims. (Cl. 24—102.)



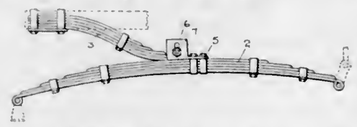
1. A fastener comprising two couplementary members, each member having an outer face and a shank, a tongue extending across the shank of one of the members and means carried by the second member for receiving and locking the tongue from either side.

1,477,476. PROCESS OF CONCENTRATING ORES. BENJAMIN H. DOSENBACH, Butte, Mont.; Edna M. Dosenbach executrix of said Benjamin H. Dosenbach, deceased. Filed Dec. 7, 1915. Serial No. 65,485. 2 Claims. (Cl. 75—18.)



1. A process of concentrating ores comprising the operations of reducing the ore to a wet pulp, adding acid thereto to dissolve the metal, settling the pulp containing the dissolved metal, overflowing the clear liquor, precipitating the metal from the clear liquor, then precipitating the dissolved metal in the thickened pulp, and separating the precipitated metal from the remainder of the thickened pulp by flotation.

1,477,477. MOTOR-VEHICLE SUSPENSION. ORVILLE RANDOLPH DUNNET, Charra, West Coast, South Australia, Australia. Filed Sept. 6, 1921. Serial No. 498,651. 3 Claims. (Cl. 267—45.)



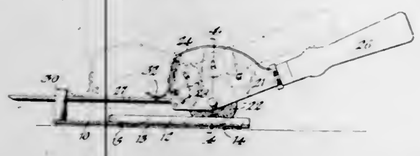
1. In a motor vehicle spring suspension the combination with a half-elliptic main spring arranged with its convex face uppermost its outer and inner ends being connected to the axle and to the frame respectively, of a specially shaped quarter elliptic supplementary spring rigidly fas-

tened at its outer and butt end to the vehicle frame approximately over the axle and having its inner and free end resting directly upon the main spring approximately at the centre thereof such free end having a reverse curve whereby when severe strain is placed upon the springs and the springs are flattened the point of contact between the springs moves nearer to the butt end of the supplementary spring and to the axle.

1,477,478. HYDROMETALLURGICAL TREATMENT OF ZINC ORE. JAMES ORR ELTON and RUSSEL B. CAPLES, Great Falls, Mont., assignors to Anaconda Copper Mining Company, a Corporation of Montana. Filed Apr. 15, 1921. Serial No. 461,589. 2 Claims. (Cl. 75—18.)

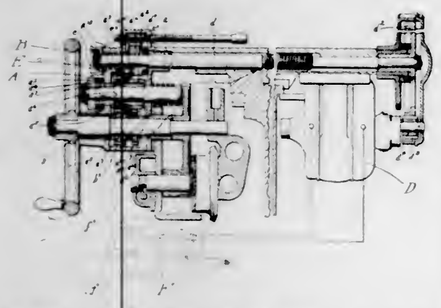
1. The method of treating the residues containing gelantinous material derived from the lixiviation of roasted zinc ores with dilute sulfuric acid which comprises mixing such residues with sulfuric acid and heating the mixture to a temperature short of that at which zinc sulfate is decomposed and sufficient to insure the decomposition of most of the iron sulfate and the dehydration of gelatinous material.

1,477,479 STENCILING DEVICE. GUY J. EVANS, Buffalo, N. Y. Filed Feb. 15, 1921. Serial No. 445,083. 6 Claims. (Cl. 101—123.)



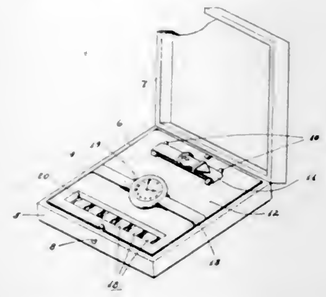
1. A stenciling device of the character described comprising a base plate adapted to support a stencil and having a bearing member at its front end, a frame movable relatively to said base plate and carrying an inking roller for engagement with the stencil, and a coupling member extending forwardly from said frame and engaging the bearing member of said base plate.

1,477,480. COMBINED POWER AND HAND OPERATED FEED MECHANISM. WILLIAM F. GROENE, Cincinnati, Ohio, assignor, by mesne assignments, to The R. K. Leblond Machine Tool Company, Cincinnati, Ohio, a Corporation of Delaware. Filed Aug. 2, 1920. Serial No. 400,611. 9 Claims. (Cl. 74—7.)



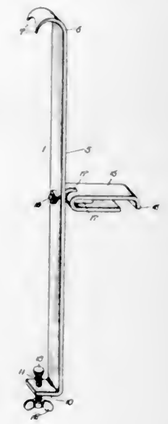
8. The combination with a feed shaft, of a hand wheel normally operative on the shaft, a reversible motor mechanism operable upon the shaft and normally inoperative, and means for selectively actuating the motor mechanism and for simultaneously disconnecting the hand wheel.

1,477,481. CASE. HAROLD R. HAERR, Cincinnati, Ohio, assignor to The Gruen Watch Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 15, 1922. Serial No. 568,476. 4 Claims. (Cl. 206—1.)



1. In a device of the class described the combination of a container, a block adapted to be removably carried by the container, having longitudinally extending ways formed in its under surface, and a slot extending therethru transversely of the ways, and a plate hingedly mounted on the block adapted to form a closure for the ways.

1,477,482. WASHBOARD CLAMP. LOUIS J. HARPIN, Kankakee, Ill. Filed Nov. 13, 1922. Serial No. 600,720. 1 Claim. (Cl. 68—29.)

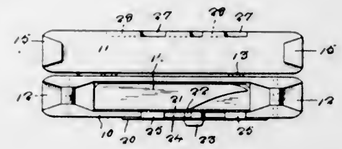


A clamp to hold a washboard in place within a laundry tub, comprising a strap bent laterally at each of its ends, one end having pointed prongs to engage the side edges of a wash board, and a screw threaded into the other end to adjustably engage the other side edge of the board and a clip pivotally connected to the strap intermediate its ends to secure the clamp to the tub.

1,477,483. KNIFE. BERNARD H. HARTLEY, Red House, W. Va. Filed Oct. 19, 1920. Serial No. 417,892. 1 Claim. (Cl. 30—10.)

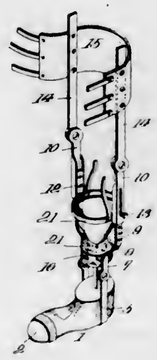
A pocket knife of the character described comprising a sectional handle hingedly connected together, one of said sections being hollow and open at both ends, blades pivoted within the hollow section and being adapted to be folded therein in superimposed relation, said blades lying

below the upper surface of the hollow section and providing a space on the outer side of their pivotal connection with the hollow section, an enlargement formed at each end of the opposite section of each handle and being adapted to be received in the respective spaces, a slide for connecting the sections together when folded and including spaced parallel members arranged on opposite sides of the free side of the hollow section, a stem connecting the parallel members for cooperative movement, the side wall of the hollow portion being provided with an elongated recess through which the parallel members slide, a head



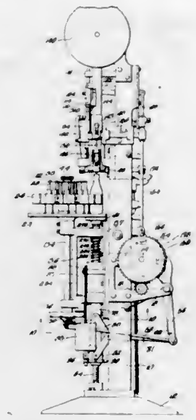
projecting from the outer parallel member and adapted to facilitate the operation of the slide, spaced flanges formed on the outer parallel member and being adapted to be received in notches formed on the opposite handle portion, said notches communicating with slots so that the flanges may be positioned within the slots to hold the respective members of the handle relatively fixed.

1,477,484. ARTIFICIAL LIMB. SAMUEL M. HARRISON, Lexington, Ky. Filed July 27, 1922. Serial No. 577,895. 1 Claim. (Cl. 3—3.)



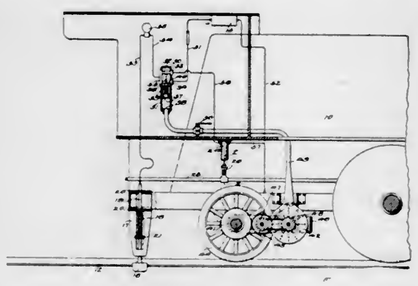
An artificial limb including a foot section having a U-shaped member receiving the foot forming portion of said section, the free ends of said U-shaped member extending above said foot portion, a lower leg portion having a pair of parallel spaced bars hingedly connected with the upper ends of said U-shaped member, a block securing said bars together adjacent said hinge connection, a leaf spring connected with the block and the foot forming portion adapted to normally hold said foot section in a predetermined relation with the lower leg section, a stub receiving socket arranged in the lower leg section and means for attaching said artificial limb to the limb of a wearer and to hold the same in fixed relation thereon with the stub of the limb positioned in said socket.

1,477,485. BOTTLING MACHINE. WILLIAM E. HASKELL, Brattleboro, Vt. Filed Aug. 23, 1920. Serial No. 405,400. 25 Claims. (Cl. 226—77.)



1. A bottling machine having, in combination, a stationary filling mechanism, a bottle support, mechanical means for moving the bottle support to present a bottle to the filling mechanism, a capping member, and fluid operated means for continuing the motion of the bottle support toward the capping member for crowning the bottle.

1,477,486. SAFETY DEVICE FOR RAILWAYS. MICHAEL K. HEALY, Yonkers, N. Y. Filed July 20, 1922. Serial No. 576,283. 4 Claims. (Cl. 246—68.)

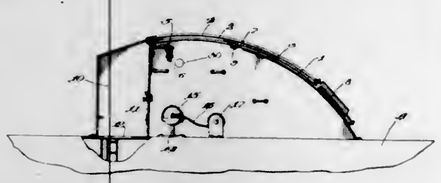


4. In a safety device for railways including a pair of sectional staggered conductors paralleling the railway, a device carried by each train comprising a source of electrical energy, means for contacting with said conductors, electromagnets for operating the train brakes, a spring controlled switch normally connecting the source of electrical energy to the contact means for energizing the conductors, and a fan driven by the train for operating the switch, disconnecting the source of electrical energy from the contact means and connecting the electromagnet to the contact means when the train is traveling above a certain speed.

1,477,487. ATTACHMENT FOR BOATS. JOHN THOMAS HISERT, Chicago, Ill. Filed Mar. 28, 1922. Serial No. 547,574. 1 Claim. (Cl. 114—16.5.)

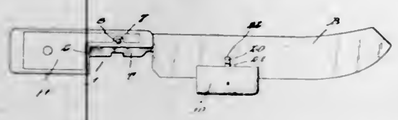
An attachment for boats comprising a compartment formed on the top of the boat, signalling means within

the compartment, arcuate shaped guides arranged at the top of the compartment, an arcuate shaped door



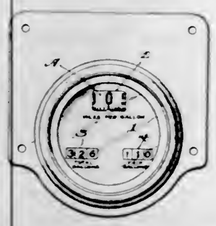
sliding in said guides, and a plurality of springs connected to one edge portion of the door for sliding same to open position.

1,477,488. KNIFE SHARPENER. CHARLES JOHN HOLLAND, Patterson, Idaho. Filed Sept. 18, 1922. Serial No. 588,991. 4 Claims. (Cl. 76—82.)



1. The combination with a knife comprising a blade and handle, the latter having a recess adjacent the heel of the blade; of a knife sharpener, a box containing the same and of a size to fill out such recess and of a contour to complement the exterior of the handle when in place within such recess, and means for detachably holding the box within said recess.

1,477,489. MILES-PER-GALLON REGISTER. CLINTON WALLACE HOUGH, Boonville, N. Y. Filed Sept. 20, 1921. Serial No. 501,931. 5 Claims. (Cl. 235—1.)



1. In a vacuum operated miles per gallon register, a casing, an odometer element, a dial mounted in said casing to operate in a horizontal plane and having thereon a miles per gallon scale, a slidable actuator for said odometer element, a check device for the dial, a diaphragm unit within the casing and including a plunger, and means operated by said plunger for shifting said slidable actuator and releasing said check device.

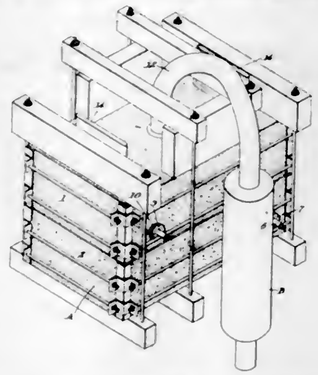
1,477,490. MILES-PER-GALLON INSTRUMENT. CLINTON WALLACE HOUGH, Boonville, N. Y. Filed Oct. 15, 1921. Serial No. 508,012. 5 Claims. (Cl. 235—1.)

1. In a miles per gallon indicating instrument for motor driven vehicles, the combination with the fuel line, of a magnetically actuated indicator member adapted to be controlled by the movement of the vehicle, and



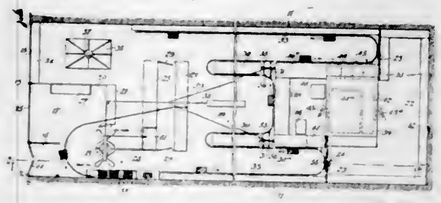
means actuated in proportion to the rate of fuel consumption by the motor for controlling the operation of said magnetically actuated indicator member.

1,477,491. RETORT. HENRY HOWARD, Cleveland, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 15, 1923. Serial No. 645,666. 7 Claims. (Cl. 23—1.)



1. A retort for the distillation of corrosive liquids formed of non-conductive, impervious and acid-resistant natural stone.

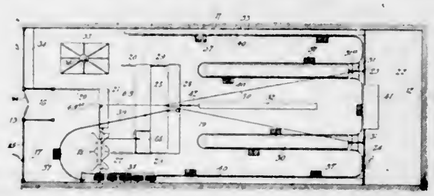
1,477,492. SELF-SERVICE STORE. MILLER REESE HUTCHISON, Orange, N. J., assignor to Hutchison Thrift Corporation, New York, N. Y., a Corporation of Delaware. Filed June 9, 1922. Serial No. 567,179. 2 Claims. (Cl. 211—8.)



1. In a self-service store, a plurality of articles of store furniture therein including a refrigerator having a major compartment for storing perishable commodities

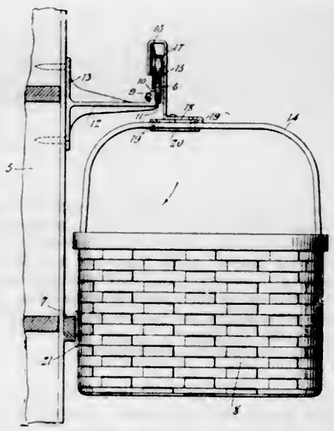
and also having a plurality of minor compartments for similar commodities, and arranged in horizontally spaced relation relative to each other, and to said major compartment, said refrigerator having an ice chamber serving all of said compartments, a counter adjacent to but spaced from one of said compartments, and a plurality of merchandise holders arranged within the store and in relation to the counter to form a passage-way for guiding a customer in a continuous path through the store and past said counter and past the compartments other than the compartment adjacent to said counter.

1,477,493. GATE AND BARRIER CONTROL MECHANISM. MILLER REESE HUTCHISON, Orange, N. J., assignor to Hutchison Thrift Corporation, New York, N. Y., a Corporation of Delaware. Filed June 15, 1922. Serial No. 568,536. 12 Claims. (Cl. 211—8.)



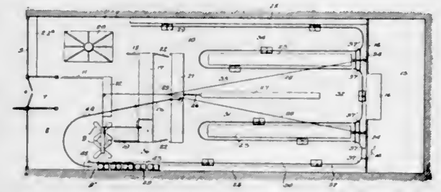
1. In a self-service store, a plurality of articles of store furniture, said articles being arranged to form a continuous passage through the store, a plurality of carriers arranged to coact with said articles of furniture to form said continuous passage, and means for simultaneously moving said barriers to ineffective position to destroy the continuous nature of the passage to provide paths of exit shorter than usual in case of emergency.

1,477,494. MONORAIL CARRIER. MILLER REESE HUTCHISON, Orange, N. J., assignor to Hutchison Thrift Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 23, 1923. Serial No. 614,468. 14 Claims. (C. 104—119.)



1. In a self-service store including display merchandise holders, the combination of a monorail track extending in the vicinity of said holders, and a carrier detachably carried by the track and adapted to be propelled along the same, said carrier being a container having a manually engageable suspension handle, said handle carrying at one side of the center of bulk of the carrier a hook-over element to engage the track.

1,477,495. MONORAIL SYSTEM FOR STORES. MILLER REESE HUTCHISON, Orange, N. J., assignor to Hutchison Thrift Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 23, 1923. Serial No. 614,469. 16 Claims. (Cl. 186—1.)



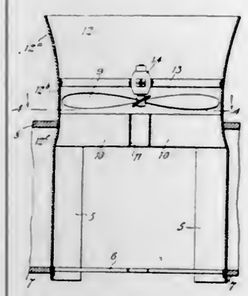
1. In a self-service store having a salesroom, said salesroom including a pre-exit station to serve as a checking station for merchandise selected by a customer, and said salesroom further including means for assisting the customer in transporting mechandise through the store, said means including a guide rail for a readily detachable carrier, said store further including a carrier supply station for an incoming customer, and said rail extending from a point near the carrier supply station to a point near the pre-exit station,—the combination of a carrier supply track extending from a point near the pre-exit station to a point near the carrier supply station, a track-engaging device on the carrier adapted detachably to take either track, and means including the last-mentioned track for transporting a carrier taken thereby near the pre-exit station, along said track and toward the carrier supply station.

1,477,496. INSECTPROOF PORTAL. MILLER REESE HUTCHISON, Orange, N. J. Filed Aug. 18, 1923. Serial No. 658,069. 2 Claims. (Cl. 98—27.)



1. The method of maintaining a portal continuously open to the passage of human beings while continuously closed to the passage of flying insects, which method involves maintaining a continuously moving air barrier while impregnating such barrier with an insect disabling component.

1,477,497. INSECTPROOF PORTAL CONSTRUCTION. MILLER REESE HUTCHISON, Orange, N. J. Filed Sept. 10, 1923. Serial No. 662,008. 8 Claims. (Cl. 98—27.)



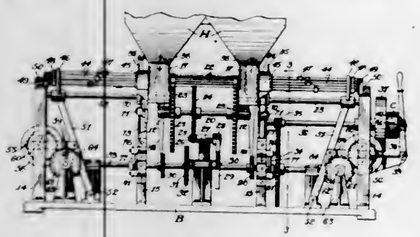
7. An insect-proof portal construction comprising a doorway of predetermined height, and a blower arranged above said doorway and disposed to direct a blast of air substantially downward, said blower being of an effective diameter substantially that of the height of said doorway.

1,477,498. AMUSEMENT APPARATUS OR MACHINE. HERBERT PERCY JACKSON, Congleton, and THOMAS JACKSON, Patricroft, near Manchester, England. Filed Mar. 20, 1922. Serial No. 545,233. 3 Claims. (Cl. 46—27.)



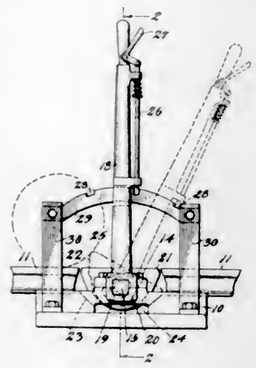
1. In a machine for amusement purposes, a rotating platform having slots extending radially therein, a track beneath said platform comprising parallel curvilinear rails, carriages upon said platform having shafts extending through said slots, pulleys on the lower ends of said shafts adapted to ride between said rails, means whereby said pulleys are held against the inner of said rails and the construction of the outer rail being such that said pulleys are released from contact with said inner rail periodically during the rotation of said platform.

1,477,499. APPARATUS FOR PACKING COMMINUTED MATERIAL. ARON JOHNSON, Brooklyn, N. Y. Filed Apr. 18, 1921. Serial No. 462,406. 16 Claims. (Cl. 18—5.)



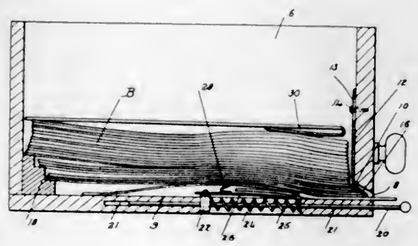
1. In apparatus for packing comminuted material in a tube, a tube carrier, a series of reciprocable plungers arranged at each end of the tube, and means to impart movement of progressive decreasing extent to the successive plungers of each series, said plungers being adapted to successively feed predetermined increments of material simultaneously into opposite ends of the tube.

1,477,500. STOP BLOCK. JOHN JOHNSON, Plymouth, Pa. Filed Oct. 1, 1923. Serial No. 665,876. 9 Claims. (Cl. 104—257.)



3. A stop block provided with opposite wheel contact faces, means by which either of said faces may be shifted in position for use, and means limiting the movement of said block into such position and providing a pressure abutment for said block.

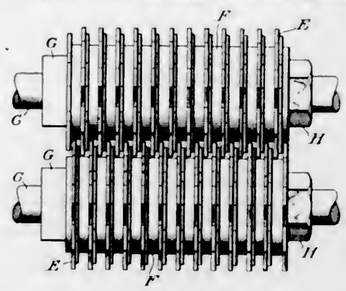
1,477,501. BAG DISPENSER. JOHN F. KEENAN, Richmond, Va., assignor of one-half to Lawrence B. Grasberger, Richmond, Va. Filed Apr. 5, 1922. Serial No. 549,771. 2 Claims. (Cl. 211—8.)



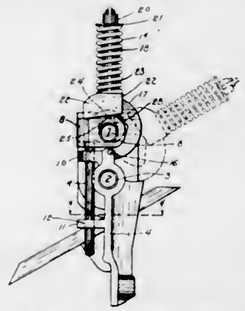
1. In a bag dispenser, a receptacle for the bags provided with an outlet slot at one end, a support for the rear end portion of the bags at the other end of the said receptacle, said support being formed of a series of steps which operate to separate the rear end portions of the bags and admit air to the spaces between them, and feed mechanism arranged at the bottom of the receptacle and operating to slide the bags one by one down the said steps and partially through the said slot.

1,477,502. EAR-CORN CRUSHER. FRANK R. KILLICK, Muncy, Pa., assignor to Sprout, Waldron & Co., Muncy, Pa., a Corporation of Pennsylvania. Filed July 10, 1923. Serial No. 650,656. 6 Claims. (Cl. 146—122.)

6. In a crusher of the character described, a shaft carrying sets of crushing elements each consisting of a plurality of peripherally toothed disks arranged side by side with the points of the teeth of one disk extending between the points of the teeth of another disk of the same set, and forming practically a single disk having one-half of its teeth arranged on one side and the other half on the other side of a line passing centrally between the two disks parallel therewith.

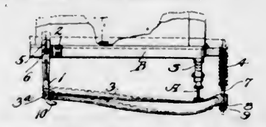


1,477,503. WRINGER MECHANISM. ALVIN W. KRAHN, Milwaukee, Wis. Filed July 15, 1920. Serial No. 396,453. 17 Claims. (Cl. 68—32.)



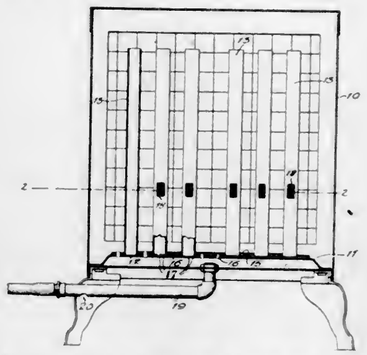
1. A wringer including the combination of a main frame, a roller journaled therein, a co-operating displaceable roller provided with bearing members removable from the main frame, a set of resiliently yielding shoes movable with a wedging action upon said bearing members to hold them and their associated roller in normal position with the rollers in mutual pressure contact, and a swinging support for said shoes adapted to carry them in and out of position for wedging contact with the bearing members and adapted under manual pressure to retract the shoes from said bearing members and release them and their associated roller.

1,477,504. SHOCK ABSORBER. CHARLES W. LAKE, McPherson, Kans. Filed May 1, 1922. Serial No. 557,695. 4 Claims. (Cl. 267—16.)



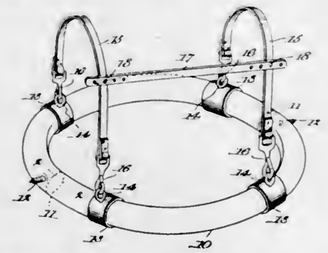
1. A shock absorber attachment for vehicles comprising a lever adapted to be secured at one end portion to the frame of the vehicle and underlying axle of the vehicle to cushion the rebound, and a tension spring connected to the other end of said lever and adapted to be attached to the frame of the vehicle, said connection between said spring and lever being adjustable to vary the tension on said spring, whereby the lever is maintained into contact with the axle.

1,477,505. GAS STOVE. JOSEPH P. LANE, New York, N. Y. Filed Apr. 5, 1923. Serial No. 630,149. 2 Claims. (Cl. 126—91.)



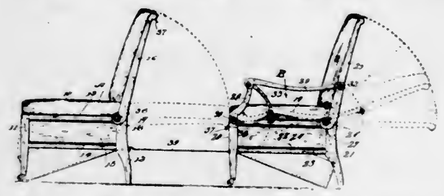
1. A gas stove, comprising a casing, a manifold mounted in the casing, said manifold having a plurality of perforated areas in its top wall, a plurality of tubes open at both ends mounted on said manifold in alinement with the perforated areas forming combustion chambers, said tubes being provided with means for limiting the height of the flame when the stove is in operation.

1,477,506. SWIMMING DEVICE. JOSEPH A. LAWLER, Paterson, N. J. Filed Dec. 13, 1921. Serial No. 522,045. 1 Claim. (Cl. 9—17.)



A swimming device comprising an endless inflatable tube having a plurality of separate sections within said tube and individual means for inflating said sections, a plurality of straps encircling said tube and adjustable there along, shoulder straps, means for removably securing said shoulder straps to the first said straps, and means for adjustably connecting said shoulder straps.

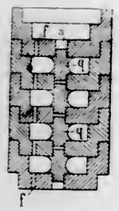
1,477,507. COMBINED CHAIR AND COUCH. JOHN G. LOCHNER, Brooklyn, N. Y. Filed Feb. 23, 1921. Serial No. 447,163. 1 Claim. (Cl. 155—130.)



In combination, a pair of freely movable articles of furniture of the chair type, an angularly adjustable back mounted on the seat of one of said articles of furniture, an arm swingingly connected to the front por-

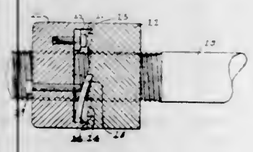
tion of said seat, an arm rest normally horizontal and pivotally connecting said swinging arm with said back, an arcuate member connected at one end at the juncture of the swinging arm and the arm rest and adjustably connected at its other end to said seat for adjusting the inclination of said back, a projection secured to the front face of the base portion of said article of furniture, a swinging back mounted on the seat of the other article of furniture, a curved spring finger carried by said swinging back adapted to snap over said projection when the said swinging back is in its lowered horizontal position, and a connecting rod adapted to be slidably carried by one of said articles of furniture for engaging the other article of furniture to prevent their separation.

1,477,508. PROCESS AND DEVICE FOR MAKING SHARPLY-DEFINED CASTINGS. HUGO LOHMANN, Berlin-Johannisthal, Germany. Filed Aug. 26, 1921. Serial No. 495,735. 12 Claims. (Cl. 22—65.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



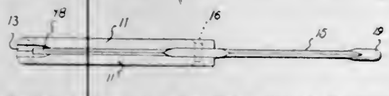
1. The process of manufacturing sharply defined castings which consists in fusing difficultly fusible metallic masses, submitting the fused mass to centrifugal action, and receiving the centrifugalized fused mass into moulds.

1,477,509. LOCK NUT. ADEN W. LOWRY, Longton, Kans. Filed Apr. 8, 1922. Serial No. 550,665. 1 Claim. (Cl. 151—17.)



The combination with a bolt, of a pair of superposed nuts provided with recesses in their opposed faces, ratchet teeth formed in the bottom of one of the recesses, a split resilient washer secured within the recess of the other nut and having one end extended obliquely and adapted to engage the ratchet teeth, a fastening element holding the opposite end of the washer within the recess and a threaded element carried by the last mentioned nut and engageable with the free end of the washer to force the same into engagement with the ratchet teeth.

1,477,510. SKINNING KNIFE. DAVID MARTIN, Watson, Ill. Filed Oct. 28, 1922. Serial No. 597,624. 1 Claim. (Cl. 17—21.)

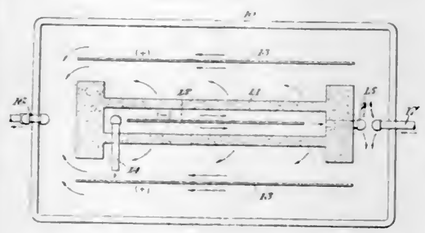


A knife comprising a handle including side plates secured together and formed to define a space between them, means securing the side plates together, the opposite edges of the handle being recessed, a blade pivoted intermediate its ends between the side plates of the handle and adapted to have either end extending with the other end fitting within the handle, each end of the blade having a curved cutting edge and oppositely curved blunt point, one blunt point being of the same thickness as the blade and the other being considerably wider, said recess in the handle being for the accommodation of said blunt point.

1,477,511. PROCESS OF MAKING CARBONBLACK. JAMES W. MARTIN, Jr., Clendenin, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a Corporation of New York. Filed Feb. 1, 1923. Serial No. 616,440. 4 Claims. (Cl. 134—60.)

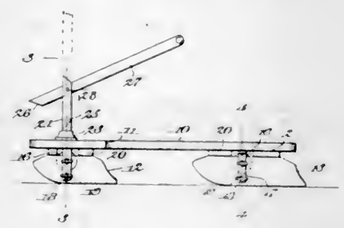
3. Process of making carbon black from natural gas of normal composition, which comprises preheating the gas to a temperature between 200° C. and 500° C., and then burning the gas under conditions adapted to form carbon black.

1,477,512. ELECTROLYTIC CELL. RALPH H. MCKEE, New York, N. Y. Original application filed Sept. 4, 1919, Serial No. 321,609. Divided and this application filed Oct. 13, 1920. Serial No. 416,651. 4 Claims (Cl. 204—5.)



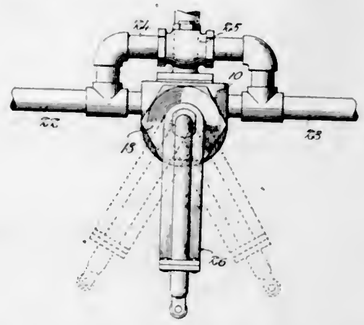
1. In an electrolytic cell, the combination with an anode and a cathode, of a porous diaphragm separating the same; means for establishing a definite flow of the electrolyte successively past said electrodes; and means for augmenting the volume of electrolyte flowing in unit time past one of said electrodes.

1,477,513. COMBINED SLED AND COASTER. ROBERT C. MCNEILL, Jersey City, N. J. Filed Nov. 4, 1922. Serial No. 599,088. 4 Claims. (Cl. 280—8.)



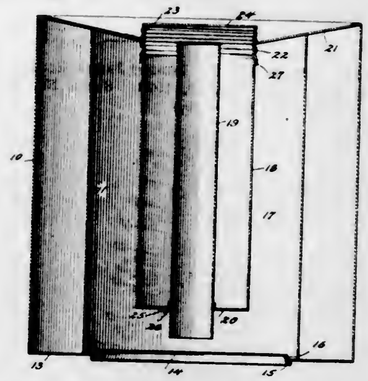
1. A combined sled and wheel coaster comprising a platform, a pair of brackets secured to said platform and depending therefrom, a rear runner interposed between said brackets and centrally of said platform, a steering post provided with a bifurcation, a front runner mounted in said bifurcation, securing elements for detachably securing said runners to said brackets and steering post respectively, a mortice in said runners, wheels in said mortices and mounted for rotation on certain of said securing elements.

1,477,514. VALVE MECHANISM FOR AUTOMATIC TRAIN-CONTROL APPARATUS. ROBERT L. MILLER, Spokane, Wash., assignor to Otis Automatic Train Control, Inc., Spokane, Wash., a Corporation of Washington. Filed Mar. 6, 1922. Serial No. 541,551. 4 Claims. (Cl. 246—190.)



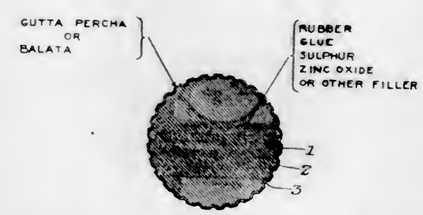
1. In mechanism of the class described, a valve including a hollow casing having a pair of ports opening into the interior thereof and adapted to be connected respectively with a fluid pressure pipe and a fluid pressure supply pipe, said casing further having another pair of ports opening into the interior thereof and communicating with the atmosphere, and a rotatable plug in said casing provided with plural relatively communicating passages so arranged that one of the same is out of communication with both of said atmospherically opening ports when others are in communication respectively with said fluid pressure pipe and said fluid pressure supply pipe, and means whereby communication is established between said fluid pressure pipe and one of said atmospherically opening ports upon a predetermined amount of rotation of said plug in either direction.

1,477,515. ICE-CREAM FREEZER. JAMES FLOYD MILLER, Minden, La. Filed Nov. 6, 1922. Serial No. 599,410. 8 Claims. (Cl. 220—9.)



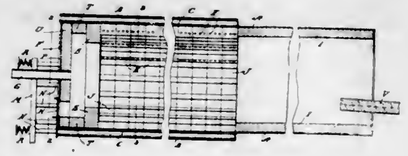
1. An ice cream freezer comprising in combination a vessel having cylindrical double side walls spaced from each other forming a central heat insulated chamber adapted to receive ice, a removable cylindrical receptacle for the cream or other fluid to be frozen, having a closed lower end, a cylindrical tube with a closed upper end and an open lower end extending centrally of said receptacle from and through its lower end upwardly and secured thereto, means at the upper end of said chamber for supporting said cylindrical receptacle in said chamber with its lower end above the bottom thereof and closing the upper end of said chamber and means for closing the upper end of said receptacle.

1,477,516. GOLF BALL. THOMAS W. MILLER, Ashland, Ohio. Filed Oct. 5, 1923. Serial No. 666,842. 6 Claims. (Cl. 46—4.)



1. A golf ball, comprising a homogeneous body portion embodying as a composition, rubber, glue, a vulcanizing agent, and a filler in such proportions as will approximate the standard ball in size and weight, said body portion being formed and vulcanized to the surface configuration of the finished ball, and a thin cover or finishing coat which conforms to said surface configuration.

1,477,517. APPARATUS FOR BURNING CEMENT MATERIAL. SPENCER B. NEWBERRY, Cleveland, Ohio; Andrew W. Newberry, executor of said Spencer B. Newberry, deceased, assignor of one-half to Andrew W. Newberry and one-half to Arthur C. Newberry. Filed Feb. 5, 1921. Serial No. 442,782. 9 Claims. (Cl. 222—7.)

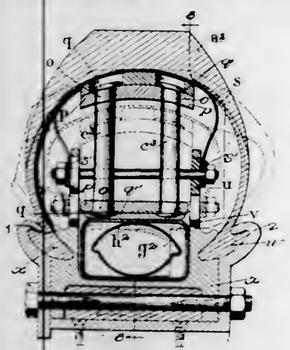


9. A rotary kiln comprising in combination two concentric cylindrical casings forming a space between them, means closing one end of said space, means extending longitudinally connecting said casings at regular intervals peripherally forming separate longitudinal air channels, a lining composed of refractory brick, each having a width corresponding to that of an air channel and adjacent bricks being in contact on radial planes through the margins of said channels, the inner surface of each brick being inclined outwardly to one radial side surface forming a depression and each having therein a passageway leading from an opening in said inner casing inwardly and then laterally through its side surface in said depression and means for supplying air under pressure to said air channels throughout a predetermined portion of the lower part of the kiln.

1,477,518. RESILIENT TIRE FOR VEHICLE WHEELS. CADET NOËL, Levallois-Perret, France. Filed June 24, 1920. Serial No. 391,342. 8 Claims. (Cl. 152—8.)

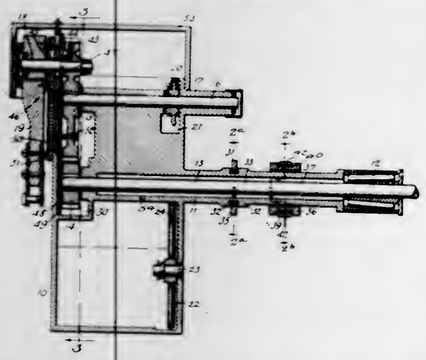
7. An elastic tire for vehicle wheels comprising a body having an annular air chamber and guide slots, a cover secured to the body, a plurality of bundles of fibres enclosed by the cover, means for supporting the ends of

the bundles of fibres, with the bundles radially arranged, one of the supporting means resting upon the outer wall of the air chamber, springs extending between the other



supporting means and the cover, rollers mounted in the ends of the springs and working in the guide slots, and springs in the air chamber.

1,477,519. LUBRICATING DEVICE FOR WINDMILLS. ORED OLSSON, Ord, Nebr. Filed Oct. 24, 1922. Serial No. 596,614. 5 Claims. (Cl. 184—4.)



1. In a windmill, a lubricating casing, a sleeve projecting from one side of the casing, a shaft mounted in the sleeve and having an end projecting into the casing, a counter shaft mounted in said casing, gears operatively connecting the counter shaft with the first mentioned shaft, said casing adapted to contain a predetermined level of oil, a hopper mounted adjacent the counter shaft, elevating means for distributing oil from the bottom of the casing to the hopper, said hopper being provided with conduits, one of said conduits being directed to the first mentioned sleeve, an inclined conduit in communication with the second conduit leading from the hopper, and directed toward the cooperating gears for carrying lubricant to said gears.

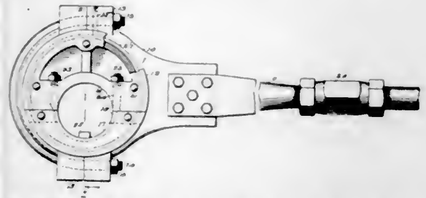
1,477,520. BUILDING SECTION. VINCENT V. PITTMAN, Selma, Calif. Filed Mar. 7, 1921. Serial No. 450,231. 1 Claim. (Cl. 72—42.)

As a new article of manufacture, a building slab having a body of plastic material and being of substantially rectangular configuration, a reinforcing mesh of crosswires embedded in the body slightly inwardly of each of the opposed upper and lower faces of the slab and reinforcing the latter for the full cross area of each face, and cell-forming cans embedded in the body between the reinforcing meshes in spaced relation to each other and



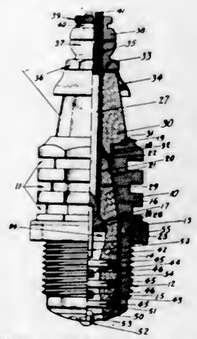
to some of said meshes, of said cans being vertically arranged with their open ends facing the bottom of the slab and the others being arranged horizontally with their open ends abutting.

1,477,521. ECCENTRIC. EDGAR DALPHIN RICHARDS, Monroe, La. Filed Mar. 7, 1922. Serial No. 541,636. 1 Claim. (Cl. 74—1.)



A sectional eccentric for shafts, comprising a pair of sections jointly presenting a bore for the shaft, each of said sections having an integral flange projecting radially outward at one side, and a plurality of transverse bores through their walls, one of said sections presenting a groove in the face forming the bore, the other section presenting a pair of bores adapted to align with the ends of said groove, a U-bolt housed in said groove and projected through said bores for clamping said other section to the shaft, an annular plate formed with openings alignable with said transverse bores arranged at the opposite side of said flange, said plate and said flange forming an annular groove therebetween at the outer circumference of the joined sections for receiving an eccentric strap, and bolts through said transverse bores and openings for detachably securing said annular plate and said sections together.

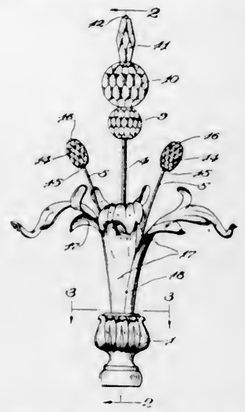
1,477,522. SPARK PLUG. ROBERT JAMES RUTHS, Baltimore, Md. Filed Jan. 16, 1922. Serial No. 529,703. 14 Claims. (Cl. 123—169.)



1. A spark plug provided with an insulating sleeve having a bore forming an ignition chamber, means to afford restricted port communication between said bore and the exterior of said plug, electrodes extending into

said chamber and other electrodes extending transversely across the chamber in spaced relation between the first mentioned electrodes, said electrodes being spaced to provide a series of spark gaps.

1,477,523. LAMP FINIAL. EDWARD C. RUTTENBERG, Chicago, Ill. Filed Dec. 8, 1922. Serial No. 605,651. 6 Claims. (Cl. 41—10.)



1. A finial for lamps comprising an artistic nut, a metal stem having one end secured to the nut, and an ornament connected to the other end of the stem.

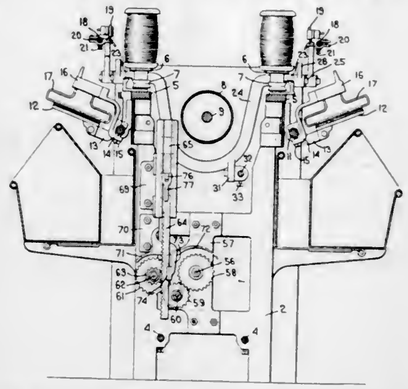
1,477,524. FINIAL. EDWARD C. RUTTENBERG, Chicago, Ill. Filed Dec. 9, 1922. Serial No. 605,930. 10 Claims. (Cl. 41—10.)



1. As a new article of manufacture a finial comprising an ornamental body, and an ornamental element having a portion thereof embedded in said body.

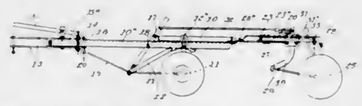
1,477,525. SPOOLER. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 21, 1921. Serial No. 446,572. 10 Claims. (Cl. 242—43.4.)

2. A spooler comprising a rotatable spool carrier, a traverse rod having a thread guide in operative relation to said spool carrier, means for actuating said traverse rod including a vertically reciprocable rack, a pinion engaging said rack, an adjustably mounted idle gear en-



gaging said pinion, a changeable gear engaging said idle gear and means for rotating said changeable gear alternately in opposite directions.

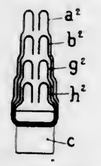
1,477,526. LEVERLESS DISK HARROW. SHERMAN W. CADY, Auburn, N. Y., assignor to International Harvester Company, a Corporation of New Jersey. Filed Nov. 22, 1918. Serial No. 263,674. 7 Claims. (Cl. 55—83.)



1. In a harrow, front and rear sections, disk gangs on both sections, a draft member movable relatively to said sections, and means for angling the gangs by rearward movement of the draft member.

6. In a harrow, a frame, disk gangs carried thereby, means for forcing said gangs into angle by backing, and means operable from a point outside the harrow for straightening the angle of the gangs as the harrow is drawn forward.

1,477,527. CONTACT SPRING. BRUNO RAETTIG, Hoffnungsthal, Germany. Filed Apr. 20, 1923. Serial No. 633,513. 1 Claim. (Cl. 200—170.)



In a switch of the kind as described, a spring contact comprising nested U-shaped members, the arms of said members being turned inwardly to form opposite series of aligned spaced contact faces, the arms supporting said faces being independently resilient.

Patents Nos. 1,477,528 to 1,478,367.

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Designs	53—No.	63,548 to No.	63,600, inclusive.
Patents	840—No.	1,477,528 to No.	1,478,367, inclusive.
Total	1250		

Interference Notices.

U. S. PATENT OFFICE, *Washington, Dec. 4, 1923.*

Alonzo Frank Richardson, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Arthur O. Klauzer, Second National Bank, Toledo, Ohio, for registration of a trade-mark and trade-mark registered June 16, 1903, No. 40,602, to Alonzo Frank Richardson, 526 West Broadway, New York, N. Y., and a notice of such declaration sent by registered mail to said Richardson at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Richardson, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Nov. 16, 1923.*

George W. Caldwell, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of I. N. Stowe, M. D., 509–10–11 National Bank Building, Atlanta, Ga., for registration of a trade-mark and trade-mark registered June 17, 1902, No. 38,469, to George W. Caldwell, Middletown, N. Y., and a notice of such declaration sent by registered mail to said Caldwell at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Caldwell, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Nov. 16, 1923.*

Wm. Henning Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of S. S. Pierce Co., 73 Tremont Street, Boston, Mass., for registration of a trade-mark and trade-mark registered July 31, 1906, No. 54,885, to Wm. Henning Co., 117 East North Avenue, Chicago, Ill., and a notice of such declaration sent by registered mail to said Wm. Henning Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Wm. Henning Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Nov. 16, 1923.*

The Radio-Sulpho Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Francois X. Rondeau, 35 Provost Street, Brockton, Mass., for registration of a trade-mark and trade-mark registered January 2, 1906, No. 48,533, to The Radio-Sulpho Co., 210 and 211 Mack Block, Denver, Colo., and a notice of such declaration sent by registered mail to said Radio-Sulpho Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Radio-Sulpho Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Nov. 20, 1923.*

Thomas Smith, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Carl R. Rostine, 105 North Euclid Avenue, Ontario, Calif., for registration of a trade-mark and trade-mark registered May 15, 1900, No. 34,047, to Thomas Smith, 20 West Street, Paterson, N. J., and a notice of such declaration sent by registered mail to said Smith at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Smith, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Condition of Applications Under Examination at Close of Business December 7, 1923.

(Total number of applications awaiting action, excluding Trade-Mark Division, 67,111; Trade-Mark Division, 2,103. Oldest new case, Feb. 15, 1923; oldest amended, Feb. 12, 1923. The dates given are 1923.)

Room No.	Divisions, Examiners, and subjects of inventions	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plant Husbandry Plows; Planting; Scattering Unloaders.	Mar. 22	Mar. 15	1,258
128	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Apr 18	Apr. 17	1,187
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	July 7	July 9	1,012
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Apr. 14	May 22	1,417
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Mar. 8	Mar. 12	1,459
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Mar. 6	Apr. 12	1,820
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	Apr. 27	Apr. 26	2,537
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	June 21	June 12	1,696
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	Apr. 14	Oct. 5	752
235	10. BARTHOLOMEW, J. A., Motor Vehicles; Land Vehicles—Animal Draft Appliances, Bodies and Tops, Dumping, Wheel Substitutes.	Apr. 21	June 18	1,407
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skin, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	July 2	July 11	803
322	12. PIERCE, P. P., Machine Elements	Apr. 13	Apr. 12	1,251
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	Apr. 28	June 13	1,165
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Mar. 7	Oct. 12	1,032
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Mar. 16	Mar. 20	2,003
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Mar. 19	Mar. 19	2,600
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Association or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Apr. 3	July 21	1,360
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	Mar. 8	Mar. 5	1,997
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	June 7	Sept. 4	1,177
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Dentistry; Locks and Latches; Safes; Undertaking.	May 3	May 12	1,392
1 2	21. THURBER, W. L., Winding and Reeling; Textiles—Braiding, Netting, or Lace Making, Cloth Finishing, Fiber Preparation, Knitting, Spinning, Twisting or Twining, Weaving.	Mar. 9	Sept. 22	944
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Apr. 23	June 5	503
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	Mar. 8	Feb. 26	693
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Apr. 2	Apr. 28	1,064
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Cutlery; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Gas Separation.	July 24	July 11	928
165	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Mar. 15	Mar. 29	968
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Apr. 16	Apr. 16	1,334
225	28. BENSON, A. R., Internal-Combustion Engines	June 4	May 10	1,273
147	29. MORRIS, B. N., Abrading; Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Wood-working Tools.	Mar. 31	May 14	1,219
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-writing Machines.	Apr. 23	Oct. 3	1,185
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar, Starch, and Carbohydrates; Concentrating Evaporators.	Apr. 12	Apr. 12	1,431
120	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Mar. 19	Mar. 19	1,342
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	May 1	Apr. 20	1,467
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	Apr. 26	May 23	954
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	July 11	Aug. 14	827
265	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	May 28	May 4	1,914
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Apr. 5	Apr. 10	1,772
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Mar. 16	Mar. 19	1,695
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Feb. 15	Feb. 12	1,185
271	40. OBERLIN, J. J., Baggage; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Mar. 22	July 18	1,959
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Apr. 20	May 26	1,001
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Apr. 12	Apr. 6	1,717
382	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Electricity, Medical and Surgical; Fire Extinguishers; Medicines; Sewerage; Surgery; Liquid Separation or Purification.	Apr. 26	Mar. 3	1,658
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	Apr. 6	July 3	1,088
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	June 15	Apr. 19	1,478
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	May 26	June 4	1,242
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time-Controlling Mechanism.	Mar. 31	July 9	1,099
116	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Mar. 3	Mar. 1	2,359
383	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	Apr. 30	May 24	550
102	DESIGNS: C. O. MARKHAM (Acting)	Sept. 5	Sept. 20	937
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. (Trade-Marks	Oct. 11	Nov. 14	2,065
	(Labels and Prints	Nov. 23	Nov. 26	38

DECISIONS IN PATENT AND TRADE-MARK CASES.

Commissioner's Decisions.

MACBETH AND WILLSHAW *v.* HOYT.

Decided June 22, 1922.

INTERFERENCE—ISSUE ONCE HELD PATENTABLE ON MOTION TO AMEND—MOTION FOR DISSOLUTION REFUSED RECONSIDERATION.

The claim constituting the issue in this interference having been held to be patentable in an earlier interference between the same parties and a third party on motion to amend, a motion for dissolution on the ground of unpatentability with respect to said claim may not now be considered.

ON PETITION.

CONVEYOR SYSTEM.

Messrs. Meyers, Cushman & Rea and *Messrs. Cushman, Bryant & Darby* for Macbeth and Willshaw.

Mr. Ernest Hopkinson for Hoyt.

KINNAN, *Acting Commissioner:*

This is a petition by the parties Macbeth and Willshaw requesting that the decision of the Examiner of Interferences, rendered May 31, 1922, be vacated and that an order be issued directing the Law Examiner or other tribunal to consider the question of the patentability of the issue, or that the Commissioner personally consider and determine the question, the petitioners averring that they have been without their day in court to properly present the matter at issue.

It appears from the record that the subject matter of the issue was presented in an earlier interference (No. 44,603, *Macbeth and Willshaw* v. *McBride* v. *Hoyt*), on motion by the party Hoyt to amend, which motion was set for hearing, over the protest of the petitioners, and was regularly heard and decided by the Law Examiner, said motion involving consideration of the patentability of said subject matter. It also appears that on appeal from the decision of the Law Examiner, denying the motion to amend, the patentability of the subject matter of the issue was carefully considered and decided by the Examiners in Chief.

The petitioners contend that the time allowed them within which to investigate and determine whether or not the proposed additional claim presented patentable invention was insufficient. The record in the earlier interference, however, shows that the petitioners were given ample time within which to investigate and determine the patentability of the proposed claim (present issue) prior to the hearing before the Law Examiner of the motion to amend. Furthermore, they could have availed themselves of the privilege of requesting a rehearing before the Examiners in Chief, within the limit of appeal, in view of any material evidence which may have been discovered by them after the decision of the Examiners in Chief.

The claim constituting the issue in this interference having been held to be patentable in the earlier interference, between the same parties, on motion to amend, a motion for dissolution on the ground of unpatentability with respect to said claim may not now be considered under the provisions of Rule 109.

The petition is accordingly denied.

DEITSCH, MUTHER, AND GLINES *v.* DOULETT.

Decided August 1, 1922.

INTERFERENCE — REOPENING PROCEEDINGS AFTER FINAL JUDGMENT BY COURT OF APPEALS.

Petition that the Commissioner request the Court of Appeals of the District of Columbia to withdraw its certification of its judgments in certain interferences and that the interferences be thereupon remitted to the Commissioner, with authority to set aside the decisions and all other proceedings therein, to reopen the same, and to permit petitioners to present newly-discovered evidence and such other evidence as may relate thereto, to rehear said interferences, and to render such new and different decisions as the evidence may warrant denied. Whether or not that court has jurisdiction to review its own final judgment, sufficient cause being shown, to the extent of permitting the Patent Office to reopen the proceedings to consider additional testimony is a matter for the court to determine. It also appears that whether that court will consider the materiality of the newly-discovered evidence is a matter for the determination of the court if it assumes jurisdiction.

ON PETITION.

INVISIBLE EYELETING.

Mr. Francis J. V. Dakin for Deitsch, Muther, and Glines.

Messrs. Emery, Booth, Janney & Varney for Doulett.

KINNAN, *First Assistant Commissioner:*

This is a petition by the parties Albert F. Deitsch, Lorenz Muther, and Frederick S. Glines praying that I request of the Court of Appeals of the District of Columbia the withdrawal of its certification of judgments of affirmance and reversal, respectively, in six interferences, involving a patent to Muther, a patent to Glines, assigned to Muther, and an application to Deitsch, assigned to Muther, with three applications of Henry T. Doulett, all assigned to the United Shoe Machinery Co., and that the said interferences be thereupon remitted to me, with authority to set aside the decisions and all other proceedings therein, to reopen the same, and to permit said petitioners to present newly-discovered evidence and such other evidence as may relate thereto, to rehear said interferences, and to render such new and different decisions as the evidence may warrant. (See 1922, C. D., 101.)

The new evidence consists of certain correspondence between the party Doulett and the firm of Robb & Robb, patent solicitors, and two letters written by a Mr. Leonard, a member of the firm of Leonard &

Barrows, to the firm at its factory located at Belfast, Me. The information contained in said correspondence and letters was disclosed to the petitioners during the trial of the infringement suit of the petitioner Muther against the United Machinery Co. in the District Court of the United States, District of Massachusetts, decided April 18, 1922. It is contended by the petitioners that this new evidence is controlling and if it had been considered in the interference cases would have compelled awards of priority in petitioners' favor.

It is conceded by the petitioners that I am bound by the judgments of the court of appeals and have no authority to reinstitute the interference proceedings without the court's permission. They have not petitioned the court of appeals to vacate its judgments and permit me to consider their motion for new trials, because they are fearful that the court would dismiss such a petition on the ground of lack of jurisdiction of the subject matter in view of its holding in *De Ferranti* v. *Lindmark* (137 O. G., 733).

In that case the senior party, Lindmark, failed to take testimony and moved for judgment on the record. The court of appeals reversed the Commissioner of Patents and awarded priority to De Ferranti. Lindmark then petitioned the Commissioner to be permitted to take testimony upon the question of priority of invention. This petition was denied. Following this Lindmark petitioned the court of appeals to instruct the Commissioner of Patents to allow him to proceed with the taking of testimony in order to establish his right of priority over De Ferranti. The court in denying the petition held:

> This court has jurisdiction of appeals from the Commissioner of Patents in certain matters defined by statute, but it has no original jurisdiction to direct and supervise the administration of the affairs of the Patent Office.

It is not considered that this decision constitutes a holding by the court that it would not have jurisdiction to review its own final judgment, sufficient cause being shown, to the extent of permitting the Patent Office to reopen the proceedings to consider additional testimony.

The status of the present case is similar to a case in the Federal equity courts after final decision has been rendered by the circuit court of appeals and after its mandate has been handed down to the trial court. In such cases it has been held that a motion in the nature of a petition to reconsider or a bill to review by the district court should be preceded by a petition to the circuit court of appeals to bring such motion. The case of *in re Gamewell Fire-Alarm Tel. Co. et al.* (73 Fed. Rep., 908) bears a close analogy to the instant case. In that case the appellate court was petitioned by the Gamewell Fire-Alarm Telegraph Co. and others for leave to file in the then circuit court a supplemental bill in the nature of a bill of review. The appellate court had affirmed the lower court and its mandate had been handed down. A petition had been filed in the lower court for a rehearing and for leave to file a supplemental bill in the nature of a bill of review, based on alleged newly-discovered evidence. This petition had been denied by the lower court on the ground that no right had been reserved in the case in the mandate of the appellate court and no permission had been given upon application to that court for leave to file the bill in the lower court. In discussing its jurisdiction the appellate court held:

> We have no doubt that an application may be made, as in this case, after the judgment, after the issue of the mandate, and after the close of the term at which the judgment was entered, subject to certain limitations as to time arising out of the equitable doctrine of laches, and other possible exceptional limitations.

The appellate court, however, went much further than to satisfy itself of its own jurisdiction. It decided that petition should be taken to it instead of the lower court in the first instance, so that it could pass upon the materiality of the alleged newly-discovered matter. This portion of the decision reads in part as follows:

> In *Rubber Co.* v. *Goodyear*, already referred to (9 Wall., 805), the practice on an application of an analogous character to that at bar appears at length. It is there shown that questions of two classes arise on the face of this petition. First, that of the materiality of the alleged new matter; and second, that of laches. In *Rubber Co.* v. *Goodyear*, the supreme court considered and disposed of both classes adversely to the petitioner, thus showing that we have full power in that direction; a power which we exercised in some of the cases already referred to. Nevertheless, there are substantial differences. So far as the question of materiality is concerned, it is evident that it is mainly for the appellate court, because, ordinarily, it only can judge properly with reference thereto. Yet while ordinarily this question would be for the appellate court, there may be very peculiar circumstances under which we might feel bound to remit it to the court below. On the other hand, the question of laches would ordinarily be for the court below.

The court then discussed the newly-discovered evidence and found part of it to be material and the rest to be immaterial, and held that the petitioners were permitted to apply to the court below for leave to file their bill stated in the petition, first striking from it all alleged newly-discovered evidence except that which it held to be material.

The practice set forth *in re Gamewell Co.*, supra, is specifically stated as being the proper practice in *National Brake & Electric Co.* v. *Christensen et al.* (254 U. S., 425). That decision contains the following statements:

> In such case the Brake & Electric Company if it wished to avail itself of the Pennsylvania decree had the right to apply by petition in the appellate court of the seventh circuit for leave to file a bill in the court of original jurisdiction in the nature of a bill of review, setting up the new matter as a bar to further proceedings. Such applications are addressed to the sound discretion of the appellate tribunal, and should be decided upon considerations addressed to the materiality of the new matter and diligence in its presentation. (*Rubber Co.* v. *Goodyear*, 9 Wall., 805; *in re Gamewell Co.*, 73 Fed. Rep., 908; *Keith* v. *Alger*, 124 Fed. Rep., 32; *Society of Shakers* v. *Watson*, 77 Fed. Rep., 512.)
> * * * * * * *
> That leave to file a supplemental petition in the nature of a bill of review may be granted after the judgment of the appellate court, and after the going down of the mandate at the close of the term at which judgment was rendered, was held in *in re Gamewell Co.* (73 Fed. Rep., 908), in a carefully considered opinion rendered by the Circuit Court of Appeals for the First Circuit, reciting the previous consideration of the question in cases in this court. We think these cases settle the proper practice in applications of this nature.

This practice is again approved by the United States Supreme Court in the case of *John Simmons Co.* v. *The Grier Brothers Co.* (258 U. S., 82; 812 O. G., 826), October term, 1921, in which attention is directed to the following paragraph in the decision:

> As the decree in question was entered pursuant to the mandate of an appellate court, proper deference to its authority required that a proceeding to reopen it, whether by rehearing or review, should be first referred to that tribunal. (*Southard* v. *Russell*, 16 How., 547, 570–571; *in re Potts*, 166 U. S., 263, 267; *National Brake Co.* v. *Christensen*, 254 U. S., 425, 430–431).

I do not find a case strictly in point which has been decided by the Court of Appeals of the District of Columbia. It is believed that such court should first indicate its view as to the proper procedure, and that until it has done so petitioners should follow the practice indicated in the decisions referred to above. Whether or not the Court of Appeals of the District of Columbia has jurisdiction is a matter for that court to determine. It also appears that whether that court will consider the materiality of the newly-discovered evidence is a matter for the determination of the court if it assumes jurisdiction.

The petition is denied.

WALKER *v.* DUNHAM.

Decided February 25, 1922.

INTERFERENCE — REDUCTION TO PRACTICE — REASONABLE DOUBT.

Where the relative size of two inlet openings was the chief requisite of the invention and W. succeeded, by cut-and-try method, in making a satisfactory tip, but had not the key to the invention and seems not to have been aware of the relative proportion or the necessity for it, and where he did not show that he could make another satisfactory tip at will, but repaired the old one, when damaged, by fastening onto it a copper nose to replace that burnt off, *Held* that he did not prove his case beyond a reasonable doubt.

APPEAL from Examiners in Chief.

BLOWPIPE.

Messrs. Pennie, Davis, Marvin & Edmonds for Walker.

Mr. Clair W. Fairbank for Dunham.

FENNING, *Assistant Commissioner:*

This is an appeal from the action of the Examiners in Chief in awarding priority to Walker. The Examiner of Interferences awarded priority to Dunham.

The invention relates to an improvement in oxy-acetylene blowpipes and their method of use.

The invention, as well as the record, is considered in detail in the decision of the Examiner of Interferences and in the decision of the Examiners in Chief. It will be sufficient here to quote counts 7 and 11:

> 7. A blowpipe or torch having a mixing chamber, and means for introducing combustion supporting and combustible gases to said chamber, the inlet for one gas to the mixing chamber being of substantially the same cross sectional area as said mixing chamber, and the inlet for the other being materially smaller in cross sectional area than said mixing chamber, and means for delivering the combustible gas to its inlet at a slightly higher pressure than the combustion supporting gas to its inlet, the velocity of delivery of each of said gases in the mixing chamber at the point of co-mingling being higher than that of the propagation of the flame produced by said gases.
>
> 11. A cutting or welding torch mixing chamber, having an oxygen inlet of the same size as the mixing chamber and an acetylene inlet of slightly less than one half the cross sectional area of the mixing chamber.

Walker's brief on this appeal says (p. 6):

> There are, therefore, three requisites of the invention in issue; first, higher velocity of flow of the mixture through the mixing chamber to the torch outlet than the velocity of flame propagation of the mixture; second, higher pressure of the acetylene than of the oxygen admitted to the mixing chamber; and, third, an inlet passage for the flow of acetylene to the mixing chamber of substantially one-half the cross-sectional area of the passage for the flow of oxygen to the mixing chamber.

Walker's brief proceeds to admit that the first two requisites were old prior to the invention in issue. It seems clear, therefore, that the thing which we must look for in Walker's proofs is the third requisite indicated above (Walker, X Q. 635*).

There is involved here a patent to Dunham and an application of Walker's, filed about three months after the issue of the Dunham patent and after Walker had seen the Dunham patent (Walker, X Q. 872). Walker therefore has the burden of proving his case beyond a reasonable doubt.

Walker's record is voluminous and relates to his activities from 1909 to 1919; but his brief, in effect, makes it unnecessary to consider anything prior to his activities in January, 1915, at which time he alleges that he reduced the invention to practice by the use of a blowpipe, the tip of which has been introduced in evidence as Exhibit T. Dunham attacks the identification of this individual tip; but I have no doubt the exhibit was in existence and tested in 1915 in a way so that it might be considered a reduction to practice of the invention were it not for the light thrown upon the matter by the whole record.

It appears that Walker had been endeavoring for many years to produce a device which would not flash back. In pursuit of this endeavor he had modified a large number of tips. This activity continued subsequently to January, 1915. In some instances he was successful in producing a satisfactory tip, possibly; in many instances he was not able to produce a satisfactory tip (Walker, X Q. 610*; X Q. 625*; X Qs. 812, 815; R Q. 919; R X Q. 1030; R X Q. 1031). There is no evidence that any one of the many tips which he modified came within the third requirement above, excepting only the Exhibit T. Some of them clearly did not (Walker, X Qs. 626*, 630*, 633*; Dixon, X Q. 92; Thomas, Qs. 23, 24; R Qs. 74, 79). Exhibit T now has the inlets so proportioned that the oxygen passage is more than twice the acetylene passage. But Walker had not the key to the invention in issue (Walker, R X Q. 1020). He seems not to have been aware of this relative proportion when he used the tip in 1915, or the necessity for it even in 1919 (Walker, X Q. 737). He "did not determine this" proportion in 1916 (R Q. 924). No other witness testifies that he knew of the specific relative sizes of the inlets.

It appears that Walker had succeeded, possibly by chance (sizes were determined by cut-and-try method; Walker, R X Q. 1019; Zouck, X Q. 191), in making a satisfactory tip, but that it was damaged, and instead of proceeding to make another tip, he found it so satisfactory that he had it re-

paired by fastening onto it a copper nose to replace that burnt off (Franklin, Q. 44). This procedure does not seem the natural one to be pursued by a man who had made the present invention which would enable him to make a satisfactory tip at will. There is no evidence that Walker ever disclosed to any of the witnesses any relation between the inlets, with the possible exception that he may have indicated that the acetylene area must be less than the oxygen area, but not less than one-half. The tips his company now makes are vaguely identified with the issue (Zouck, X Qs. 192, 193). A 1916 tip (Exhibit W) now is without the issue, but has "probably" been changed (Dixon, Q. 29). This does not prove beyond a reasonable doubt that originally it was within the counts of the issue.

Walker continuously spoke to his associates concerning an improvement which he had made which would prevent back fire; but so far as the proof discloses his statement to them was merely that he would operate with acetylene pressures higher than the oxygen pressure (Willis, X Q. 141; Harry M. Beber, X Q. 158, X Q. 159, X Q. 213, X Q. 214; Dixon, Q. 65, Q. 71, Q. 97, X Q. 130, X Q. 133; Franklin, X Q. 103; Thomas, Q. 7, Q. 28; Peabody, Q. 7, Q. 17, Q. 19; Mills, X Q. 57, X Q. 58, X Q. 59). So far as his disclosure was concerned, that single thing may have been his invention, although it seems generally to have been understood that some change in the apparatus in use was necessary. There was no disclosure of the proper proportions of acetylene and oxygen inlets (Willis, X Q. 142). It does appear that he reformed the oxygen inlets and, at least in one instance, did something to the acetylene inlets of the torches. But if we admit everything as proven which is testified to by the corroborating witnesses it must be found that the information concerning Walker's alleged invention is so vague and indefinite that the specific invention involved in the counts here at issue could not have persisted as a part of human knowledge without the additional information with reference to the relative size of the oxygen and acetylene inlets. An occasional production of a device within the counts by cut-and-try methods in a highly-developed art is not sufficient to meet the specific issue here.

The fortuitous juxtaposition of the elements, without any conscious recognition of some pragmatic relation, is sterile and valueless. (*DeLaski & Thropp Circular Woven Tire Co.* v. *U. S. Tire Co.*, 232 Fed. Rep., 884. See also *Tannage Patent Co.* v. *Donallan*, 93 Fed. Rep., 811, and *German American Filter Co.* v. *Erdrich*, 98 Fed. Rep., 300.)

This impression is fortified by Walker's activities with respect to the invention which matured into Patent No. 1,310,099. That patent relates to a torch which involved the use of acetylene at higher pressure than the pressure of the oxygen for the purpose of preventing back fire (Walker, X Qs. 730, 731). Walker alleges that in 1917 he made a drawing, offered in evidence here, to disclose his ideas with reference to back-fire prevention. The drawing was exhibited in 1918 to parties who testified here, and subsequently experiments were undertaken toward manufacture of this torch, and the application for the patent was filed while the Dunham application was pending. Months prior to the Walker application here involved Walker was supplied with apparatus made in accordance with Dunham's patent; but he alleges that he was unable to operate that device satisfactorily because he did not apply to it a higher acetylene pressure than the oxygen. All Walker's reference to a desire to perfect an invention to avoid flash back by using higher acetylene pressure may have related to the matter of Patent No. 1,310,099 (Peabody, Q. 33); but it is admitted in Walker's brief that the present issue cannot read on that patent. (See Walker's comparison of the present issue with that patent at X Q. 596 and X Q. 597.)

After listening to argument and reading the briefs and records I have grave doubt, which I must hold reasonable, that Walker had the present invention prior to Dunham.

If we were satisfied beyond a reasonable doubt that Walker reduced the invention to practice in January, 1915, we should hold that it had gone into public use more than five years prior to the application for patent, since it was used for commercial work "all the way through 1915" (Franklin, X Q. 114).

The decision of the Examiners in Chief is reversed and priority awarded to Dunham.

U. S. Circuit Court of Appeals—Third Circuit.

SEIBERLING *v.* JOHN E. THROPP'S SONS CO.

Decided October 19, 1922; rehearing denied December 4, 1922.

[284 Fed. Rep., 46.]

1. PATENTS—941,962, FOR TIRE-SHOE-MAKING MACHINE, HELD VALID AND INFRINGED.

   The State patent, No. 941,962, claims 4–7, 12, 13, 22–26, for a pneumatic-tire-shoe-manufacturing machine, consisting of the combination of the core wheel, used in the hand process of manufacturing, rotated at a rapid speed, causing radial stretch of the fabric, with spinning rolls mounted on a moving platform and pressing and cementing the fabric, while stretched and puckerless, to the sides of the shoe, *Held* a co-operating combination, and not a mere mechanical aggregation, to involve novelty, utility, and invention, and not anticipated; also *Held* infringed.

2. SAME—TEST OF COMBINATION IS COACTING OF ELEMENTS.

   The general principle is that the earmark of a patented combination is the coacting of the elements to produce a unitary result.

3. SAME—DISCLAIMER HELD NOT TO INVALIDATE.

   Where the essence of a patented tire-shoe-manufacturing machine was the combination of a power-driven core with spinning rolls mounted on a radial moving support and so laterally pressed as to compel them to follow the lessening contour of the shoe down to the bead edge, a disclaimer withdrawing all claims embodying a tread roll and limiting other claims to the operation of the elements on that part of the core outside the tread portion, and then only when driven at a sufficient high speed of rotation to operate as described, *Held* not to invalidate the patent.

APPEAL from the District Court of the United States for the District of New Jersey; Joseph L. Bodine, judge.

Suit by Frank A. Seiberling against the John E. Thropp's Sons Company. From a decree for defendant, plaintiff appeals. Decree vacated, and case remanded, with instructions.

Messrs. Rogers, Kennedy & Campbell (*Mr. Robert Fletcher Rogers, Mr. Luther E. Morrison*, and *Mr. Roland S. Trogner* of counsel) for the appellant.

Mr. Thomas G. Haight and *Mr. E. Clarkson Seward* for the appellee.

Before BUFFINGTON, WOOLLEY, and DAVIS, Circuit Judges.

BUFFINGTON, *Cir. J.:*

In the court below, suit was brought by the owner of Patent No. 941,962, granted November 30, 1909, to Will C. State, for a pneumatic-tire-shoe-manufacturing machine. The suit charged infringement by the John E. Thropp Company of claims 4, 5, 6, 7, 12, 13 and 22 to 26 inclusive.

As shown in its opinion, printed in the margin,[1] the court below conceived the case was substantially the same as that decided by the Circuit Court of Appeals of the Sixth Circuit, reported at 257 Fed., 74; 168 C. C. A., 286, and without itself entering into a discussion of the issues here involved, it in effect followed that case. As in our view the record presented in this case is substantially different from that before the circuit court of appeals in the case cited, we are justified in placing of record a full statement of the issues here involved and our reasons for reversing the decree entered below.

[1] The case is important. It concerns the machine making of a pneumatic rubber shoe for an automobile tire, and a satisfactory tire is the measure of an automobile's efficiency. Such shoe is a built-up product, composed of successive layers of fabric cemented or plastered to each other. Leaving aside the tires made by a single stretch of fibrous material, and which were forced into place on the side of the shoe by what are known as "jigger fingers," and confining ourselves to shoes in which the material is stretched at different parts of the shoe in two directions at right angles to each other, and to a process of cementing or plastering them in place by a spinning roll, we note the fact that tires embodying these two features of double stretch and roll-spinning fastening were, before the patent to State here in question, handmade.

A statement of the old, hand-made art is so clearly set forth by Judge Denison in the opinion in the sixth circuit case, we copy his words:

> An annular metallic core having spokes and a hub was centrally mounted upon a shaft, so that it could revolve; the core thus resembling the rim or tire of a wheel. This core was approximately circular in cross-section, and its cross-section diameter, as well as its entire diameter through the hub from edge to edge of the rim, were proportioned according to the size of the casing to be made. The operator coated this core with an adhesive substance. He then took a strip of rubber-impregnated fabric, which would stretch out to be as long as the circumference of the core, and in width somewhat less than the circumference of the cross-section. As he revolved the core on its hub, he stretched and pasted this fabric strip upon the core, pressing and shaping it with his fingers or with hand tools, so that it adhered in all places and was without wrinkles. He repeated this operation as many times as there were to be fabric layers in the casing. The impregnating composition, having the character of rubber, would also attach each two layers of the fabric together. The strip of fabric was cut upon the bias, and the warp threads therefore ran from the inner open edge of the tube in a diagonal course along, across, and around the tube to the other open edge thereof; and the next layer of fabric put on was reversed, so that these warp threads crossed those of the first layer at a selected angle. Where the ends of the fabric met each other, they were overlapped enough to make a pasted joint. Each layer of fabric was first pressed down and attached by the hand of the operator, on its central portion throughout its length, thus constituting the part of the casing corresponding to the tread. The degree of lateral curvature here is slight, and there would be no difficulty in making a smooth attachment; but, as it was continued around the remaining circumference of the cross-section, there would be an obvious tendency to gather and wrinkle. This wrinkling would be fatal to the strength of the casing, and it could be avoided only by careful manipulation and gradual shaping. The ultimately smooth and unwrinkled surface could be had by virtue of a quality which all woven material has had since weaving was known; i. e., that it will contract in one direction, as it stretches in another. When a fabric is stretched in one diagonal direction, its square meshes become diamond-shaped, with the length of the diamond along the line of stretch and its width at right angles. This produces a contraction of the fabric in the line of its width. In tire building, it is primarily the central part of the strip which is thus stretched longitudinally as it is attached to the tread of the core, leaving the side portions or wings projecting and free. Upon the same principle, if these side portions are then stretched laterally, they will shrink longitudinally, and, if this stretching is done in progressive measure as the edges are approached, the longitudinal shrinking will be greatest at the edge. In this way, it results that the fabric may be shaped smoothly and without wrinkles to the entire side core surface.

With this picture distinctly in mind, it will be seen that in making such a shoe we have to deal with a series of nonuniform circumferences, viz, the longest circumference length at the outer or tread periphery of the core; at the two sides of the core the circumference length will be smaller; and as the inner or bead edge of the core is reached we have a still smaller circumference length. It is therefore apparent that, as there is a lessening of core circumference from the outer or tread circumference zone to the shorter zone of the side and the still shorter one at the bead edge, and as the unitary rectangular fibrous sheet to cover these zones is of uniform length, puckers or wrinkles in such fibrous material would necessarily be formed in these shorter circumferences, unless in some way the rectangular fabric of uniform length was shortened as it was cemented on these lesser core circumference zones. When the tread or outer periphery covering sheet was circumferentially stretched from normal, of course, as explained by

[1] This case involves Letters Patent 941,962 for a tire-making machine, granted November 30, 1907, upon the application of Will C. State, his interest assigned to the plaintiff. The bill also claims an infringement of Patent 762,561, granted on the application of Messrs. Seiberling and Stevens. This patent has been withdrawn, and a decree is asked under the State patent alone.

The plaintiff's patent was before the Circuit Court of Appeals for the Sixth Circuit in the case of *Firestone Tire & Rubber Co.* v. *Seiberling* (257 Fed., 74; 168 C. C. A., 286). The claim is urged, however, that the record in the present case is so distinct from the record in that case that a different result is inevitable; the distinction being that, a disclaimer having been filed February 14, 1919, claims 1, 2, 3, 18, 19, 20, and 21 are not in suit, and claims 8, 9, 10, 11, 14, 15, 16, and 17 have been erased. The effect of the disclaimer is broadly to limit the patent to a combination in a tire-making machine of a forming or spinning roll with a high speed core. The method or process used is the same which the proofs showed bad for many years prior to the patent been used in the making of tires by hand.

The Circuit Court of Appeals for the Sixth Circuit considered the case as though before them in its present aspect. (See 257 Fed., 82; 168 C. C. A., 294.) If further authority is necessary, see *Conroy* v. *Penn Electrical & Manufacturing Co.* (C. C., 155 Fed., 421, affirmed 159 Fed., 943; 87 C. C. A., 149). The result reached makes it unnecessary to pursue the many other grounds urged for the invalidity of the patent.

The relief sought will be denied.

Judge Denison, its square meshes became diamond shaped, with the diamond in the line of circumference stretch. If this stretch was gradually diminished until the side zone of the core was reached, the diamond of the covering would correspondingly recede into the square of the normal form, and we would then have the normal unpuckered length of the fibrous material automatically taken care of at that point, and if, as the inner or bead edge of the shoe was reached, the fibrous material was stretched at right angles to the core, then its square would take the form of radially-pointed diamonds, and that would necessarily contract the length of the rectangular material. In other words, there was an initial stretch of the fabric from its normal squares into circumferential diamond-shaped interstices. That made the tread portion of the tire.

There was a normal square of the material at the side of the shoe, and below that there was a radial stretch of the covering at the inner or bead edge of the shoe, which changed the square to a radial diamond-shaped interstice and correspondingly lessened the normal length of the fabric. As explained by Judge Denison, this was accomplished in the hand process by the operator, who—

> stretched and pasted this fabric strip upon the core, pressing and shaping it with his fingers or with hand tools, so that it adhered in all places and was without wrinkles.

But the avoidance or elimination of wrinkles became more difficult as the zone of smaller circumference length was reached, and in that respect he said:

> Each layer of fabric was first pressed down and attached by the hand of the operator on the central portion throughout its length, thus constituting the part of the casing corresponding to the tread. The degree of lateral curvature here is slight, and there would be no difficulty in making a smooth attachment; but, as it was continued around the remaining circumference of the cross-section, there would be an obvious tendency to gather and wrinkle. This wrinkling would be fatal to the strength of the casing, and it could be avoided only by careful manipulation and gradual shaping.

This handwork required high skill and was physically hard on the operator. The core had to be actuated by one hand and the spinning roll directed by the other. Where the different layers of fabric overlapped, the roll was apt to jump. The initial speed of the core could not be maintained, unless one hand of the tire maker was employed in revolving it, and, if one hand was so employed, its nonuse on the spinning roll, of course, made the roll-jumping trouble more acute. Moreover, the variation in speed caused corresponding variation in the regularity and uniformity of the interstices of the fibrous material, and the output was limited to the strength and skill of the operator. The evidence is that under the hand-tool process the possible production was but a few tires per day; but, as its double stretch was regarded as most effective in securing tire strength, it was nevertheless continued. Hence the effort to devise a way to manufacture tires by machine.

This was first attempted in a machine of wholly different type from the one here in question. That machine was the invention of Seiberling and Stevens, and was the leading subject matter in the case in the sixth circuit. Seiberling and Stevens' plan was to use jigger fingers, but the proof is that their jigger-finger machine was not commercially successful and was commercially scrapped. In this state of the art, in 1907 State undertook to adapt the other or hand-roll method of making a double-stretched tire to machinery. Certain elements entering into that problem were, of course, well known. The fact of the desirability of the initial circumferential stretch of the tread portion into circumferential diamonds was in use; the lessening of stretch, resulting in squares on the side of the shoe, was a well-known practice, as was also the radial stretch for the inner portion of the shoe, which turned the square of the fabric into a diamond shape at right angles with the diamonds of the initial or tread stretch. So, also, the use of a hand or spinning roll was well known, and the problem involved, as in most machine improvements, was to take these well-understood and recognized processes, which were done by hand and directed by skill, and do the same work by machinery. This problem State met, and for the first time successfully solved in a machine-made tire of the double-stretch character indicated. The machine he produced was at once recognized. It went into instant use. On such machines millions of tires have been built, and large numbers of companies have taken out licenses under the patent.

In determining the inventive character of State's work, the first question involved is whether the successful machine first disclosed by him was a mere mechanical aggregation of separate well-known steps, or a cooperating combination. We note, first, that what we are here dealing with is a unitary product, namely, a completed, machine-made shoe tire for an automobile. We are not dealing with the making of the tread portion of a tire alone, and with its consequent necessary circumferential stretch and the formation of circumferential diamond-shaped interstices in the fabric in such tread portion. We are not dealing with the making of the median zone of the shoe, with the interstices square and unstretched. Nor are we dealing with the making of a bead zone where the stretch is radial and the interstices are radially pointed diamond shaped. But we are concerned with the machine making of a finished tire, in which there is a continuity of sustained, interrelated, and necessary co-operation, in which there is a progressive length nonuniformity and an angle change of stretch, in which there is a change of speed rotation at different stages, and in which every one of the separate operations of the machine is individually essential to the completion of the unitary product of the unitary machine.

Analyzing such machine, we note that in the tread circumference there is a low speed, and we there start with a circumferential stretch and a circumferential diamond-shaped interstice. Its

separate processes and their product do not end and are not completed at any given point, but as each distinct process and mode of operation begins and carries on it correspondingly modifies the product, and as the machine functions in its entirety there is a gradual and progressive change in the continous operation and in the progressing and changing product, which gradually, uniformly, evenly, and continuously changes the product of the machine from the initial circumferential stretch and the circumferential headed diamond-shaped interstices into a gradual approach to the normal square with its substantially unstretched fabric into which the product gradually shapes itself up to the side or median line. But the process does not stop here, for there is still a continual shading, this time from the square of the median zone of the tire side into the radial circumferential stretch of the bead or inner portion of the tire, and a gradual departure from the unstretched square of the median line to the radially-stretched and radially-pointed diamond-shaped interstices of the bead or inner portion. Far from being separated, isolated zone processes, there is a gradual and uniform, and indeed an unbroken, spiral sequence caused by the rapid rotation of the core and the consequent exercise of centrifugal force on the covering material, by which it is automatically gradually stretched radially, and by the joint action of such centrifugal, radial stretch, and the spinning rolls, the square of the median zone progressively shades into the radial diamond-shaped interstices of the bead or inner zone of the shoe.

In a way we have anticipated what State's machine really is by thus describing its results. But such statement should be initially made, for the crux and dominating functional feature of State's machine is the use upon the fabric of a centrifugal force caused by rapid rotation, a process which is wholly different from the original hand process, and one which State, in the experiments which he carried along in the development of his machine, first found he could utilize. Briefly stated, his machine may be thus described: He took the old core wheel of the hand process, and used impregnated strips of fabric, and formed the outer or tread portion of the shoe, and cemented it to the core, just as had been done in the old hand process. He continued that process just as it had been in the hand process, down to the point where he plastered or cemented the fabric onto the core down to the median line point. But here he changed to something the old hand process had never used, namely, the machine was speeded up to a point where the revolution of the wheel and flying skirt of the uncemented loose fabric stretched itself radially and formed thereby radial, diamond-shaped interstices, which contracted the normal length of the fabric.

At this point we note that State made use of a shifting platform, on which he mounted on each side of the tire spinning wheels or rolls so pressed inwardly by springs that, as the rolls revolved, they engaged and pushed inward and against the sides of the core the stretched flying skirts of the fabric. Thereby he then, and by the wheels, pressed and cemented the radially-stretched and therefore puckerless fabric against the lessening sides of the shoe clear down to the bead edge. It will therefore be seen that the essence of his disclosure was the rapid, sustained, regular revolution of his core, the use of a shifting platform on which he located his spinning rolls, and the constant, regular, and uniform exertion of pressure upon those spinning rolls, causing them to automatically press the automatically stretched and loose fabric, or skirts, in an unwrinkled state, on the bead of the lower surface of the core.

If this statement of the process be correct, and there can be no doubt in that regard, it follows that the process is a unitary one, is a continuous one, is an interrelated one, is an undivided one, and that there is a continuity of uniform, sustained, progressive, advance from the start to the finish of this machine-made tire, which is brought about by the rapid revolution of the core wheel, acted upon by the spin of spring-controlled engaging rolls cooperating with the centrifugal force generated by the rapid motion of the core. In other words, united, cooperating, conjoint functioning of the core speed and spinning rolls, effected by roll springs and the shift of roll platform, all conjointly functioning to produce a unitary machine result which neither of them separately could effect. Such being the mechanical fact, who shall combat the patent deduction that these elements, brought together and assembled for the first time by State, stamp the combination as an inventive combination, and not as a mere mechanical aggregation of disjointed steps.

At no single stage of this machine's processes do we find a complete, separate, finished entity. Standing alone, the tread with its circumferential diamond-shaped interstices is nothing; the median or square portion with its normal square is nothing; the bead with its radial stretch and diamond-pointed interstices is nothing. It is when each cooperating element in combination with its fellows has done its individual, but still cooperating, work, we produce the unitary and finished product which State for the first time made by machinery, and which made such a great change in the tire art. Each element acts and has to coact with its fellows to produce the unitary result and make the unitary product which alone the machine was fashioned and devised to produce. And not only is this conclusion the inevitable sequence of a clear understanding of the process, but the question of aggregation and combination is strikingly solved and practically answered by a study of the evolutionary processes or stages by which through some 15 different steps the patentee gradually evolved in the tire-building art, the successful correlation and adaptation of well-known hand operations to machine operations. The problem was one of

great difficulty. It was not solved, even by a single inventive thought, or by its initial conception, but with the settled purpose in view of substituting machinery for handwork and automatic machine control for human skill.

[2] State went through a most unusual series of experiments, and as each one was made it disclosed some difficulty, which he had to overcome and did overcome step by step, until at last he evolved a structure which did by rapid machine work, and largely by automatic operation, what was previously solely and laboriously done by exhaustive handwork. That the result was novel is established by proof. That it was useful is shown by its prompt and general adoption, as well as by the vast aggregate of its product, and that it was inventive is demonstrated not only by its own facts, but is evidenced by the cases decided by many different judges in this industrial circuit, who have from time to time carefully followed a clear controlling principle in dealing with the question of aggregation or combination in machines. That general principle is that the earmark of combination is the coacting of the elements to product a unitary result.

In the early case of *Société* v. *Rehfuss* (C. C., 75 Fed., 657; 76 O. G., 336), Judge Acheson, in considering a machine where, during the continuous process operation of a pearl-button-cutting lathe, a sharpening wheel was brought into relation to the cutting tool, said:

> The several constituents co-operate in respect to the work to be done, each is essential to the complete organization, and the result is both new and highly useful.

The court was there dealing with pearl, a substance so hard that its cutting tool had to be sharpened, or as Judge Acheson said:

> The extreme hardness of the material speedily dulls the edge, and constant resharpening of the tool is necessary. This occasioned much delay, when the old method of cutting pearl buttons was pursued. Moreover, the employment of highly skilled workmen to keep the tools properly sharpened was required.

It followed, therefore, that the suspension of the process while the tool was automatically sharpened was not an isolated operation, but a link in the chain of unbroken continuity, which made the machine a continuous operative combination leading to a unitary product.

In *Burdett* v. *Elevator Co.* (C. C., 196 Fed., 43, affirmed in 197 Fed., 734; 117 C. C. A., 206), Judge McPherson said:

> The successive operation of the signals and of the motor is not a decisive objection, * * * nor need all its movements be simultaneous. The test is whether there is a new unitary result, to the production of which the different elements coact.

These cases were but following the earlier and leading case in this court, where in *National Cash Register Co.* v. *American Cash Register Co.* (53 Fed., 367; 3 C. C. A., 559; 62 O. G., 449), this court made the test the fact that each of the elements there involved—

> by the co-operation of the others, capacitated to contribute by acting in its own peculiar way, to the common end, which, without the co-operation of each and every other of the co-ordinated elements, it would be powerless to accomplish or advance.

This principle was further accentuated by this court in *Novelty Glass Mfg. Co.* v. *Brookfield* (170 Fed., 948, 95 C. C. A., 516), where the machine for pressing glass insulators involved several successive steps, namely: (1) The gathering boy poured the molten glass into the machine mold; (2) the presser man brought the mold under the actuating rod, by a lever brought down the screw plunger, detached it, and left it seated in the molten glass; (3) by the mechanical revolution of the table, the mold passed to another workman, who by a rotary spindle unscrewed the plunger; (4) by another rotation of the table the mold passed to a fourth workman, who opened the same and took out the completed machine-molded insulator. All of these operations were themselves old mechanical processes, but no one had ever combined them to produce a machine-made insulator. But even in view of the fact that all the steps were separately old, and were thus in a measure isolated and unconnected, the court held there was a novel combination and use in a machine which produced a new unitary article, to wit, a machine-made insulator, in that regard saying:

> It is said, however, that the machine is a mere aggregation, the different parts which are brought together having no combined action, but simply operating in juxtaposition, each by itself as a complete and independent piece of mechanism, under the manual control of separate workmen. And this view is confirmed, as it is urged, by the way the claims are progressively built up, starting out with a certain number of elements and adding one at each step, even the stop or detent to lock the table, and the standard about which it turns, being utilized to that end. But whatever may be said of the attempt so made, of which more anon, the different parts in our judgment sufficiently co-operate to a common end to dispel any such idea. The test is whether there is a new unitary result, to the production of which the different elements coact (*Bliss* v. *Reed*, 106 Fed., 314; 45 C. C. A., 304; *National Tube Co.* v. *Aiken* [C. C. A.], 163 Fed., 264), which certainly is the case. The purpose of the mechanism which is brought together is to make glass insulators, and this it most successfully and expeditiously does; a completed article being produced at a single turn. No doubt there are different steps in the operation to which the different parts are successively addressed. But it is not necessary that the insulators shall be made at a single stroke, in which each of the parts shall be involved. That may be desirable, and through the genius of some one, if the nature of the material permits, may possibly be attained. But for the present a machine which embodies and is adapted to carry out the process, as it is understood and supposedly has to be performed, in which there are distinct parts for the several steps, is not to be condemned as an aggregation on that account.

To our mind, none of these cases, the interjection of the tool sharpener in the cutting of the pearl-button lathe, a mechanical interruption and segregation of the cutting process, but still one essential in the wear and tear of a tool cutter against the hardness of pearl; the signal and motor of the elevator; the successive and distinct stages of the glass-insulator machine mold, present as clear a case of coacting, combining elements as the present one, the gist of which is the rapid rotation of the core and its resultant radial stretch, acted upon by the self-adjusting spinning rolls. To our mind, the combination in the present case is more marked because in it there is no isolation of stages, but related continuity of action in rapid rotation and coordinated roll spinning, to produce the unitary result. As soon as rapid rotation begins, roll spinning also begins, and utilizes the rapid rotation to enable the rolls to plaster an unpuckered, radially-distended diamond-shaped fabric upon the core. To our mind, there could be no clearer and more distinctive characteristic example of combination, afforded as the basis for a true combination claim, than is evidenced by the present machine. While in no sense were the elements of rapid rotation, varied stretch of fabric at different zones, spinning rolls and centrifugal force, as an abstract principle, new in themselves, we are satisfied that the utilization of centrifugal force to stretch the fabric and the action of the spinning rolls upon a centrifugally, automatically stretched fabric was an entirely new combination, which State brought into the tire art.

As we have said before, State's was the first successful machine in this country to make a double-stretched automobile tire by machinery. It is contended, however, that what he did was anticipated by the Belgian patent, No. 194,731, granted September 20, 1906, to Alphone Matherne, for a machine and process for mechanically manufacturing casings for pneumatic tires. Without entering into minute details, it suffices to say that by certain mechanism Matherne proposed to unwind the fabric which is advanced to the core, and to stick or plaster it to the tread circumference, or, as the patent states:

> As the fabric is pulled along and unwound from the drum 18 it encounters the rollers 30 on the casing 28. * * * Each of these rods carries at its extremity a roller 30, which advances and retracts on the core, so as to stick to its straight or convex sides the fabric which has been placed there.

In addition to thus plastering the tread portion, and thereby lengthening the fabric along the line of the median circumference of the core, the outer or free edges of the fabric were lessened in length by a process of crimping, which is described in the patent as follows:

> The fabric on leaving the drum passes between two rolls that are spherical or oval in form and arranged in such a manner as to produce a slight lengthening of the middle of the fabric, which lengthening greatly facilitates the removal of the puckers. On the same support there is mounted, at each side, two conical gears 36, the sole purpose of which is to produce a slight, uniform puckering of the fabric strips at their edges, insuring in advance a uniform contraction of the fabric at all points.

Now it will be observed that at this stage, while there is lengthening of the median line of the fabric by circumferentially stretching, there is no contraction of the outer edges by radial stretching. It it true the edge of the fabric has been crimped or puckered, but this puckering, while it has shortened the line by forming puckers, has not changed the square of the fabric into a radial diamond-shaped interstice, as is the case in State's machine. Morever, this puckered edge or skirt was not left free as in State, but was plastered down by Matherne to the side of the core; in that regard the patent saying:

> The fabric is placed on the core, which is coated with a layer of rubber solution, so that the fabric adheres well to it and may be pulled along by its rotary movement.

To smooth out the designedly-formed puckers or wrinkles on the cemented edge of the fabric, Matherne provides a forked tool, which has a rounded roller set at an angle on a sliding tool carrier. The operation is thus described:

> On the support 17, which constitutes a tool carrier, there is mounted a tool like that shown in Fig. 6, which has a fork with a rounded roller set at an angle. The sliding tool carrier 17 is adjusted so that the roller comes to the level of the top of the core. Then the machine is set in operation and the roller is caused to descend progressively on the side of the core and all the way down to its base. Thus there is obtained the complete and rapid removal from the fabric of the puckers, the descending motion being produced automatically by the pawl 34. Both sides may be readily worked at the same time, by mounting two tools like that shown in Fig. 6, on the sliding tool carrier 17. * * * This last device (the tool of Fig. 6) has a great advantage in being manually controlled, whereby it has the capacity of easily passing over the beads.

We cannot accede to the contention that Matherne's disclosure has the effect of destroying State's practically-operated and highly-successful machine. There is no evidence that the machine in the form disclosed by Matherne had any effect on the art. In point of fact, he suffered the patent to lapse in default of the first payment required after its issue, and when he subsequently obtained a German patent he abandoned his rollers and adopted another form of mechanism. But wholly apart from these considerations, we feel that Matherne did not touch upon or solve the problem overcome by State. In the first, he deliberately formed puckers and then sought to eliminate them, a procedure wholly different from State, who never formed puckers, and indeed prevented their formation by radial stretch and radial diamond-pointed interstices. Matherne plastered his puckers to the core without stretch, and thereafter sought to roll out the puckers. State, on the other hand, left the skirts of his fabric free, and stretched those fabric edges into radial diamond-shaped interestices, by the use of high-speed core rotation. Indeed, the whole process of Matherne, so far as the side and inside or bead zone of the fabric was concerned, was simply the use of a hand roller to iron out the puckers he had deliberately formed and plastered on the core. Had the art stopped with Matherne's proposed machine, the auto-tire art would not have had the impetus brought about by State's disclosure.

[3] Seeing, then, that State's contribution to the tire-making-machine art was novel and useful, that it passed into general use, and that its worth and the validity of his patent have been acquiesced in by large numbers of manufacturers in the automobile industry, who naturally would not pay tribute unless they were satisfied of the validity of his patent, we turn to the question whether such a meritorious patent is to be invalided as held by the court below, on account of the disclaimer State filed after the decision in the sixth circuit. We cannot give the disclaimer that effect.

Experience has shown that very often applicants for patents, impressed by the seeming importance of their own inventions, have made statements and claims which time and closer knowledge of the art show are unwarranted. In relief of such common mistakes, the disclaimer statutes allow a patentee

to seasonably avow such unwarranted statements and unjustified claims, and to restrict and narrow his application to the limits of the real, novel disclosure he made, and to confine his claims to that limit. Where a disclaimer is filed in good faith, and no attempt is made thereby to broaden or make more inclusive the original disclosure or claims, the law looks with favor on such procedure. In this case there is no element of fraud, bad faith, or an attempt to broaden the disclosure or claims, but an honest effort to eliminate from the specification and the construction of the claims all elements save those which constituted the true disclosure State gave the art.

Broadly speaking, the essence of State's invention consisted of the combination of a power-driven core, with spinning rolls mounted on a radial, moving support, the rolls being so laterally spring pressed as to compel them to follow the lessening contour of the shoe down to the bead edge. The Circuit Court of Appeals of the Sixth Circuit had held that it was an aggregation to claim a *tread roll* in combination with the spinning rolls, and the disclaimer withdrew all claims embodyng the tread roll, namely, 8, 9, 10, 11, and 14, and also claims 15, 16, and 17, which related to other subsidiary features not connected with those features which make up the essence of the patent. All of these claims disappeared from the patent and are not involved in this case, and such a course of procedure has the warrant of judicial approval. (*O'Reilly* v. *Morse*, 15 How., 62; 14 L. Ed., 601; *Sessions* v. *Romadka*, 145 U. S., 41; 12 Sup. Ct., 799; 36 L. Ed., 609; 59 O. G., 939.)

As to the claims which are here in suit, and which embody the essential elements of State's disclosure, there was no abandonment of them, but simply an assertion of and emphasis upon those vital elements which we have indicated. For example, take claim 22,[2] which embodies the elements of, first, a power-driven ring core; second, a radially-moving support laterally power pressed toward the core; and, third, a spinning roll mounted on a support for passing radially along the sides of the tire shoe, to shape the sheet of fabric on the core. The effect of the disclaimer is to restrict the operation of these elements to that part of the ring core beyond the tread portion. In that respect, the disclaimer states that in respect to claim 22:

> I hereby disclaim any combination of the recited elements *except when* constructed and co-ordinated for shaping and applying a previously unshaped sheet fabric strip to that part of the recited ring core beyond the tread portion, *and unless* the power drive for the ring core functions by a sufficiently high speed of rotation and consequent centrifugal force to throw the unapplied fabric portion out from the side of the ring core, while the recited spinning roll in its radial movement, and while pressed toward the ring core, functions by a gradual action upon such centrifugally thrown-out fabric to shape it to the side of the rotating ring core while bringing it into adhesive contact therewith.

[2] "22. An open tire-shoe making machine comprising the combination of a sheet-fabric supply, a power-driven ring core, a radially moving support laterally power-pressed toward the core, and a spinning roll mounted on the support for passing radially along the sides of the tire-shoe to shape the sheeted fabric on the core, substantially as described."

The question of infringement is confined to a narrow limit. The essential elements of State's machine are found in the defendant's machine. We have the rapid rotation of the core. We have the loose edges, stretched by the centrifugal force induced by rapid core rotation. We have a radially-moving tool support, and those tools laterally power pressed, not by the spring of State's machine, but by a weight which functions in the same way to bring the spinning rolls into one continuous shifting play, and the whole machine devised to adapt and combine, in the same mechanical way State disclosed, the use of spinning rolls, cooperating with centrifugal radial stretch of the fabric to produce the unitary machine-made product, which Sate first made possible in the art.

We are therefore of opinion the court below committed error in the entry of the decree, that its decree should be vacated, and the case remanded, with instructions to enter a decree finding the claims here involved valid and infringed, and directing an accounting.

DAVIS, *Cir. J.* (dissenting):

I regret that I am constrained to dissent from the conclusions of my colleagues. The Circuit Court of Appeals for the Sixth Circuit found that the patent in question disclosed a mere aggregation, and not a patentable combination. (*Firestone Tire & Rubber Co.* v. *Seiberling*, 257 Fed., 4; 168 C. C. A., 286.) In view of the fact that Seiberling really presented his case on the theory that State discovered a new method of making tire casings or a new set of functions to be performed by associated mechanism, the court did not rest its decision upon invalidity, based upon aggregation, but held that he had nothing "broadly new either in his method or in his selected tools." Thereupon Seiberling, the assignee, filed a disclaimer, in which he stated that he had reason to believe that through inadvertence, accident, or mistake the specification and claims of the Letters Patent were in part too broad, including that of which State was not the first inventor, but what reason he had, or what the inadvertence, accident, or mistake was, or which of these, that caused the patentee to claim more than that of which he was the first inventor, he does not state.

Claim 22, which may be used as typical, is for a "tire-shoe making machine comprising in combination" (1) a sheet-fabric supply; (2) a power-driven ring core; (3) a radially-moving support laterally power pressed toward the core; and (4) a spinning roll mounted on the support at a receding angle to the plane of the core for passing radially along the sides of the tire shoe to shape the sheet fabric on the core. The claim is for a machine pure and simple. The purpose of the patent was to do by machine what had before been done by hand, and for such a machine a patent may be granted. (*Penn Electrical & Manufacturing Co.* v. *Conroy*, 159 Fed., 943; 87 C. C. A., 149.) The function of the elements is stated, but there is not a word in any claim of the patent about the method of operation of any element. Seiberling disclaimed entirely claims 8, 9, 10, 11, 14, 15, 16, and 17, on the ground that they contained that of which State was not the first inventor. Claim 8 for instance, contained a machine comprising (1) a sheet-fabric supply; (2) a power-driven ring core; (3) a radially-movable tread-forming roll for shaping the outer portion of the tire; (4) a radially-moving support laterally spring pressed against the core; and (5) a spinning roll mounted on the support to pass radially along the sides of the tire shoe to shape the sheeted fabric on the core. In this claim, which is admittedly too broad and contains that of which State was not the first inventor, there are the identical elements comprising claims 4 and 22, which represent the two groups of claims of the patent. In other words, the claims unqualifiedly disclaimed contain the substance of those not disclaimed. Seiberling has put himself in the inconsistent position of disclaiming in one claim the identical thing which he claims in another, on the ground that State did not invent the former but did invent the latter. Again, the part retained is not "definitely distinguishable from the parts claimed without right." They are the same thing.

The elements remaining after the disclaimer was filed are not only a new combination, but they are invested with a distinct method of operation not claimed in the old combination. This method of operation, prescribed by the disclaimer, is a distinct addition to the claims, expressly made to avoid the effect of the opinion of the Circuit Court of Appeals of the Sixth Circuit and the disclosures of the Belgian patent (first discovered by the patentee during this litigation), No. 194,731, issued to Matherne November 20, 1906. Seiberling disclaimed any—

> combination of the recited elements, except when *constructed* and *co-ordinated* for shaping and supplying the previously unshaped sheet fabric strip and unless the power drive for the ring core functions by a sufficiently high speed of rotation and consequent centrifugal force to throw the unapplied fabric portion out from the side of the ring core, while the recited spinning roll in its radial movement and while pressed toward the ring core, functions by a gradual action upon such centrifugally thrown out fabric to shape it to the side of the rotating core.

He thus tried to avoid the conclusion that his machine was a mere "aggregation," and endeavored to reconstruct and coordinate the elements of the new combination, so as to have them coact and conjointly produce the result claimed for the machine. The effect of the disclaimer is to retain in part the machine patent and add to it a method of operation. To this extent the character of the patent is changed to a method patent. The disclaimer is a virtual restatement of the claims, changing their character from a simple machine to a new combination machine, whose elements operate according to a prescribed method. This may not be done by a disclaimer. (*Enameled Metals Co.* v. *Western Conduit Co. et al.*, C. C. A., 269 Fed., 620; *Hailes* v. *Albany Stove Co.*, 123 U. S., 582, 587; 8 Sup. Ct., 262; 31 L. Ed., 284; 42 O. G., 95.) If claims may be changed, so that a combination of elements constituting a simple machine may be modified and formed into a new combination, and the elements given a prescribed mode of operation by a disclaimer, it is difficult to know what function a reissue performs. This suit may not be maintained by virtue of section 4922 of the Revised Statutes (Comp. St., sec. 9468.)

The disclaimer invalidates the patent, and the decree dismissing the bill, in my opinion, should be affirmed.

U. S. Circuit Court of Appeals—Fourth Circuit.

PANGBORN CORPORATION *v.* W. W. SLY MFG. CO.

Decided October 21, 1922.

[284 Fed. Rep., 217.]

1. PATENTS—710,624, FOR A DUST COLLECTOR, VALID AND INFRINGED.
   The Sly patent, No. 710,624, for a dust collector, *Held* valid and infringed.
2. SAME—MERELY FORMAL CHANGES DO NOT AVOID INFRINGEMENT.
   Alterations or changes in a patented device which are merely formal do not avoid infringement.
3. SAME—THAT A DEVICE MEETS A RECOGNIZED WANT IS EVIDENCE OF INVENTION.
   That a patented device met a recognized want, was allowed by the Patent Office, and came into extensive use is persuasive of invention, when doubtful.
4. SAME—CLAIM NOT LIMITED BY REFERENCE TO ELEMENT BY NUMBER OR LETTER.
   Reference in a claim to an element of a combination by the letter or number by which it is designated in the drawings does not necessarily limit the claim to the precise form of the element as shown in the drawings.
5. SAME—PLAIN LANGUAGE OF CLAIMS NOT CONTROLLED BY ARGUMENT IN PATENT OFFICE.
   Argument of an applicant before the Patent Office as to the special features of his invention cannot control or restrict the plain language of a claim allowed as presented.

APPEAL from the District Court of the United States for the District of Maryland, at Baltimore; John C. Rose, judge.

Suit in equity by the W. W. Sly Manufacturing Company against the Pangborn Corporation. Decree for complainant, and defendant appeals. Affirmed.

For opinions below, see 263 Fed. Rep., 394, and 276 Fed. Rep., 971.

Mr. William F. Hall and *Mr. James T. Newton* for the appellant.

Mr. Charles E. Brock (*Mr. J. B. Hull* on the brief) for the appellee.

Before KNAPP, WOODS, and WADDILL, Circuit Judges.

WOODS, *Cir. J.*:

[1] The plaintiff sues for infringement of claim 2 of Patent 710,624 for a dust collector, issued October 7, 1902, to William W. Sly. The claims allowed by the Patent Office are as follows:

> 1. A dust collector, comprising a casing divided into two chambers by a vibratory partition and a series of vertically arranged screens, said screens being supported on a partition at one edge only, the remaining edges being free, and hammers arranged to strike the screens at the supported side at opposite ends alternatively.

2. In a dust collector, in combination, the casing 6, the partition 10 therein, the screens 9 supported at one edge of the partition, means to jar the partition, and inlet and exhaust pipes for the casing.

The defendant denies both validity and infringement. The district court found the patent valid and infringed.

The defendant contends: first, that plaintiff's device is covered entirely by the prior art in all its essentials, and not patentable; second, that, if patentable, the only feature which distinguishes the combination from earlier patents is the vibratory partition mentioned in claim 1; third, that to sustain claim 2 "the partition 10" therein mentioned must be held to be a vibratory partition; fourth, defendant has not infringed, because in its device the partition is firm, and not vibratory.

Neither the Sly patent nor any that preceded it involved ingenuity of a high order. Everybody interested in processes which produced dust-laden air in industrial plants knew the importance of getting rid of it. Everybody also knew that screens with meshes small enough would arrest dust, and that the dust would accumulate on the screens, so as to prevent the passage of air. The problem in the art was to catch the dust on the screens, and dispose of the dust and the cleansed air in the most convenient and economical way.

It is true that Wilson and other prior patentees applied to the problem of collecting and disposing of dust in industrial plants the same mechanical laws as Sly used. They used screens and fans, and means to strike the screens, so as to free them from accumulated dust. Sly's patent is a narrow one, consisting chiefly of a new and improved combination of these things already known and used. The features of Sly's combination, which distinguish it from the Wilson patent and the Swiss patent, bring it very close to the elusive line which separates mechanical skill and invention. Our study of it and the prior art leads to the conclusion, however, that it did embody an ingenious, useful, and new structural combination for forcing the air from one chamber to another through screens, and collecting and disposing of the dust, not only novel in arrangement and combination, but superior to all prior patents in simplicity and convenience.

[2] The vibratory element of the partition is doubtless an advantage, but it is not the only support for the patent. The prior art does not show Sly's combination of a casing divided into two chambers by means of a series of screens and a partition on which the screens are supported at one edge, inlet and exhaust pipes, and means of jarring the screens. Such a combination is patentable, and although not pioneer or initiative the patent covers equivalent ingredients, which in the same arrangement of the parts will perform the same function. Alterations or changes which are merely formal do not constitute a defense to a charge of infringement. (*Gill* v. *Wells*, 22 Wall., 1; 22 L. Ed., 699; *Imhäeuser* v. *Buerk*, 101 U. S., 647; 25 L. Ed., 945; 17 O. G., 795; *Michle Printing Press & Mfg. Co.* v. *Whitlock Printing Press & Mfg. Co.*, 223 Fed., 647, 650; 139 C. C. A., 201; 218 O. G., 1155; *Deering* v. *Winona Harvester Works*, 155 U. S., 286; 15 Sup. Ct., 118; 39 L. Ed., 153; 69 O. G., 1641.)

[3] The evidence that plaintiff's device met a recognized want, was allowed by the Patent Office, and came into extensive use in foundries and other like dust-producing plants, requires us to solve our doubts in its favor. (*Diamond Rubber Co.* v. *Consolidated Rubber Tire Co.*, 220 U. S., 428, 441; 31 Sup. Ct., 444; 55 L. Ed., 527; 166 O. G., 251.)

[4] Defendant insists that there was no infringement, chiefly on the ground that plaintiff's patent called for a vibratory partition, while defendant's partition is firm and without vibration. Claim 1 of plaintiff's patent expressly calls for division of the chambers by "a vibratory partition." While claim 2 refers to "partition 10," it omits the limiting description "vibratory." The omission is important, and will be construed to indicate an intention of distinction between the two claims. (*Mast, Foos & Co.* v. *Dempster Mill Mfg. Co.*, 82 Fed., 327–333; 27 C. C. A., 191.) The reference to the "partition 10" does not limit the patentee to the precise form shown in the drawing or in a different claim. The reasonable rule, which now seems best supported by authority, is thus well stated in *Curry* v. *Union Electric Welding Co.* (230 Fed., 422, 426; 144 C. C. A., 564, 568):

> The name of a part, as an element of a claim, of necessity, carries us to the specification to see what that part is, and the reference letter in connection with the part does not naturally do more. In either case, the claim refers to the named part, in the form shown in the specification and drawings, or in any other form which is the equivalent of the form shown; and in determining equivalency, we cannot, usually, get aid from any supposed limitation arbitrarily to be implied from the use of the reference letter.

But the application of this rule depends on circumstances.

> There are cases wherein the form of a device is the principle of the invention. There are other cases wherein the state of the prior art and the specific terms of the specification and drawings leaves no doubt of the intention of the applicant to restrict his claim to the specific form of the device or element he points out. In such cases, claims of patents are sometimes limited to the specific forms of the devices pointed out by letters or numbers in the claims or specifications. (*National Hollow Brake-Beam Co.* v. *Interchangeable Brake-Beam Co.*, 106 Fed., 683, 714; 45 C. C. A., 544, 565; *Weir* v. *Morden*, 125 U. S., 98, 107; 8 Sup. Ct., 869; 31 L. Ed., 645; 43 O. G. 753.)

[5] Defendant's counsel argue with force that under the circumstances in this case plaintiff should be held to Sly's own construction of his patent, as shown by his letter to the Commissioner of Patents. The original application set out five claims. All were rejected except the fifth, which afterwards became claim 2, now in suit. Afterwards the claims were amended and reduced to three. The Examiner then rejected all of them, as not distinguished from the Wilson patent in any essential particular. Sly then canceled all except two claims, and amended them to read as above set out. In transmitting this amendment he wrote to the Commissioner:

> The claims are clearly distinguished from Wilson, in that the screens are supported on a vibratory partition. This function is important, and, judging from the Office letter of May 16th, it does not appear to be appreciated. Also, the screens of applicant are free at three edges, whereas in Wilson the screens are attached at one edge to the rod 17 and at the other by the cloth 26, and clearly do not possess the freedom of vibration effected by the hammer strokes directly against the screens of the applicant, furthermore the hammers of Wilson do not strike the screens at the supported side, nor at opposite ends alternately. Claim 3 has once been allowed. Please change the number thereof to 2.

The claims as amended by Sly were allowed. The argument is that Sly, having relied on these features set out in his letter to distinguish his invention from prior patents, is limited to them, and can not allege infringement by defendant whose device does not contain any of them.

> When a patentee, on the rejection of his application, inserts in his specification, in consequence, limitations and restrictions for the purpose of obtaining his patent, he cannot, after he has obtained it, claim that it shall be construed as it would have been construed if such limitations and restrictions were not contained in it. (*Roemer* v. *Peddie*, 132 U. S., 313, 317; 10 Sup. Ct., 98, 99; 33 L. Ed., 282; 49 O. G., 2151; *Crawford* v. *Heysinger*, 123 U. S., 589, 606; 8 Sup. Ct., 399; 31 L. Ed., 269; 42 O. G., 197.)

This rule does not apply here, where the language of the claims does not require the limitations and restrictions. There is no ambiguity in the claims. One calls for a vibratory partition; the other does not. Both were allowed exactly as presented. The arguments of the patentee are often valuable in showing what invention the applicant meant to patent in a rejected claim, to the end that he may be estopped to claim that an allowed claim covered the same things as the rejected claim. But such argument cannot control or restrict the plain language of the claim allowed as presented. (*Spalding* v. *Wannamaker*, 256 Fed., 530; 167 C. C. A., 602; *Baltzley* v. *Spengler Loomis Mfg. Co.*, C. C. A., 262 Fed., 423; *Auto Pneumatic Action Co.* v. *Kindler & Collins*, 247 Fed., 323; 159 C. C. A., 417.)

On the questions of interest and taxes and other issues we are unable to add anything to the full and satisfactory opinion of the district judge.

Affirmed.

U. S. Circuit Court of Appeals—Sixth Circuit.

SCOTT ET AL. *v.* HARRIS AUTOMATIC PRESS CO.

Decided November 7, 1922.

[284 Fed. Rep., 778.]

1. PATENTS—CLAIMS, THOUGH LIMITED TO PARTICULAR USE, MAY BE CONSTRUED WITH OTHER USE.

   Where inventor has placed his invention generally and specifically in the printing machine art, the fact that it is adapted to the lithographic art is not important except in so far as the problems peculiar to that application may assist in determining question of invention.

2. SAME—REARRANGEMENT OF PARTS TO PROVIDE MORE CONVENIENT OPERATION NOT INVENTION.

   A mere change in the arrangement of parts to provide a more convenient and economical operation of the same instrumentalities is not invention.

3. INVENTION—ANTICIPATION—CROSS BRACE USED BY OPERATOR AS A PLATFORM.

   Where the printer's stand or platform enters into every claim and apparently constitutes the basic idea of the plaintiff's patent, and he insists that in certain of the anticipating machines the cross platform is but a cross brace, *Held* that whether it be called a cross brace or printer's platform nevertheless it was used at intervals by the printer. If, perhaps, it were too narrow to afford the printer a comfortable position, the mere widening of this platform would not amount to invention.

4. PATENTS—815,857, FOR PRINTING MACHINE, VOID FOR LACK OF INVENTION.

   The North patent, No. 815,857, for a printing machine, *Held* void for lack of invention in view of the prior art and also as for a mere aggregation of old elements.

5. INVENTION—AGGREGATION.

   Where the machine will, in the absence of the human agency, operate in the same manner and produce the same results with or without the platform, and the platform does not constitute an instrumentality through which and by which the printer performs his duty in the operation of the machine, *Held* that the claims are void on the ground of aggregation, although the platform may, perhaps, be advantageous in economy and convenience of operation.

APPEAL from the District Court of the United States for the Eastern Division of the Northern District of Ohio; D. C. Westenhaver, judge.

Suit in equity by Isabella Scott, executrix, and David J. Scott, executor, of the will of Walter Scott, deceased, doing business as Walter Scott & Co., against the Harris Automatic Press Company. Decree for defendant, and complainants appeal. Affirmed.

Mr. Axel V. Beeken (*Messrs. Hull, Brock & West* on the brief) for the appellants.

Mr. Philip C. Peck for the appellee.

Before KNAPPEN, DENISON, and DONAHUE, Circuit Judges.

DONAHUE, *Cir. J.*:

This appeal involves the question of the validity and the infringement by appellee of all or either of the claims in United States Letters Patent No. 815,857 issued March 20, 1906, to the Linotype & Machinery Limited, of London, England, as assignor of the inventor, Thomas M. North, and assigned by that company on May 31, 1917, to the present plaintiff appellants.

The invention relates to printing machines, particularly of the type known as aluminum rotary machines because their surveillance demands the constant attention of the printer to keep them in perfect running condition. The object of the invention is to provide means whereby the printer, from one and the same position, can ascertain the condition of both the printing plate and the printed sheet.

Claim 7 is perhaps typical, at least it is one of the most comprehensive of the eight claims in this patent and reads as follows:

> In a printing machine, the combination of co-operating form and impression cylinders, a feed board and delivery board at respectively opposite sides of the said cylinders, a stand for the printer, between the delivery board and the cylinders, and sheet-delivery mechanism adapted to conduct the printed sheets from the cylinders, beneath the stand, and deliver them, printed side up, on the delivery board.

Others of these claims omit some of the elements contained in claim 7, but all of them contain the same basic idea as to the relative position of cylinders, printer's stand, and delivery board.

The defenses alleged are invalidity of the patent by anticipation, prior knowledge, and prior public use, and that all of the claims cover mere aggregations of elements old and well known in the art and not any new or patentable combination thereof

and noninfringement of any of the claims of the patent in suit. On the issue so joined the district court held the patent void on the ground of aggregation and want of invention and dismissed the plaintiff's bill of complaint.

[1] Both in the description and in the claims of the patent the inventor has placed his invention generally and specifically in the printing-machine art. Therefore the fact that it is especially adapted to the lithographic phase of that art is not important except in so far as the problems peculiar to that application may assist in determining the question of invention. (*Jackson Fence Co.* v. *Peerless Wire Fence Co.*, C. C. A. 6, 228 Fed. 691, 143 C. C. A. 213.)

It is admitted by appellants that—

> North knew, not only as a matter of law but as a matter of fact, that the individual elements such as feedboards, printing cylinders, delivery boards, printer's stand, delivery devices and sheet carriers were old in the art, and all that he sought to obtain a patent for was a certain correlation of these elements or a new and advantageous combination of elements so as to obtain a more facile delivery admitting of visibility of the printed sheets coupled with accessibility to the form cylinder. It was doubtless for this reason that he did not attempt to specify the detail features of the elements. (Appellants' brief, 28.)

This admission by appellants that all of the elements in North's alleged invention are old makes it unnecessary to review the prior art except in so far as it relates to the question of novelty and invention in North's combination of these old and well-known elements.

It is the claim of the appellants that in the prior art the delivery board was placed directly under the feed board at the end of the machine opposite to the cylinders. That this assembling of parts required the printer to walk from the cylinders to the delivery board to ascertain, by inspection of the printed sheet, the working condition of the printed surface, and then to walk back again to the cylinders to remedy any defects thereon, the existence of which may have been discovered by such inspection; that the North invention places this delivery board directly back of the cylinder and so spaced as to permit the placing of a printer's stand between the two, thereby enabling the printer from his position upon this stand to inspect the printed sheets and to remedy any defects appearing thereby, upon the cylinder without changing his position; and that in furtherance of this purpose the sheet-delivery mechanism is so placed as to conduct the printed sheets beneath the printer's stand or platform or beneath the floor, if a platform is not used, and deliver the sheets on the delivery board, printed side up.

If it were conceded that North was the first to place the delivery board beyond the cylinders instead of under the feed board with the printer's stand located between these elements and the delivery mechanism operating under the same, then the question of fact would be presented whether such change involved invention or merely mechanical skill and commercial enterprise. But North was not the first to change this location of the delivery board, or to place a printer's stand between it and the cylinder. Cottrell in 1890 built and shipped to Perry Mason & Co., to be used in printing the "Youth's Companion," a rotary printing press showing just such a change in the location of the delivery board, and also having a printer's stand between the cylinder and the delivery board. This printing press was successfully operated for about 16 years from and after 1890 and was then traded in upon a new machine and scrapped.

[2] It further appears by the evidence that an operator while standing on the platform of this first Cottrell machine No. 5931 could regulate the ink fountain of the printing couple that prints the first side of the sheet, while the press was running, and by turning around could examine the effect of the regulation on the printed sheets as they were delivered, but that if the operator desired to adjust the ink fountain for the cylinder E he would have to descend from the platform and go to the other end of the machine; that this machine printed both sides of the page; and that, if the operator desired to inspect the printing of the other side of the sheet, he would also have to descend from the platform and lift the sheet from the delivery pile. Nor would it have been possible for the operator of the machine to reach either the form cylinder C or the form cylinder E from the printer's stand. It is conceded by the plaintiffs in error that one machine is sufficient to establish the defense of prior use (*Egbert* v. *Lipman*, 104 U. S. 333, 336, 26 L. Ed. 755, 21 O. G. 75), but they contend that, if this one machine is not exactly the same as that of the patent in the suit, it is persuasive to the conclusion that it did not possess the advantageous characteristics of the successful machine. However that may be, the evidence is conclusive that this Cottrell machine 5931 did involve the same arrangement of parts, and a mere change in that arrangement to provide a more convenient and economical operation of the same instrumentalities is not invention. (*Specialty Co.* v. *Fenton Metallic Mfg. Co.*, 174 U. S. 492, 498, 19 Sup. Ct. 641, 43 L. Ed. 1058, 87 O. G. 1608; *Grinnell Machine Co.* v. *Johnson Co.*, 247 U. S. 426, 38 Sup. Ct. 547, 62 L. Ed. 1196, 254 O. G. 225.)

Cottrell Patents Nos. 442,862 and 487,386 do not show the cross platform and railing of the Cottrell machine No. 5931, corresponding to the printer's platform in North, but in other respects they do show a detailed construction and arrangement of elements similar to the Cottrell machine of 1890.

E. H. Cottrell testified, in substance, that the platform and railing were not shown in the patent because they were no part of the invention and were not considered of sufficient importance to be reproduced in the patent because they put platforms on presses wherever necessary or wherever they would add to the convenience of the operator. That he did not consider the platform where placed on the 1890 machine patentable, or otherwise he would have insisted upon having it put in the later patents.

It is admitted by plaintiff that the H.-W. bag press No. 101 was constructed and assembled by defendant at its factory at Niles, Ohio, prior to February, 1904, and shipped to Arkell & Smiths, February 19, 1904. While this would not establish prior public use for two years before the date of the application for the patent in suit, nevertheless it does disclose prior knowledge by the officers and employees of the defendant company of whatever appears in this construction, for it is not contended on the part of the plaintiff in error that North's invention antedates his application for a patent. There were three presses of this model made by the defendant. The bags were fed from a feed board into the press by hand. There is a cross-platform at the opposite end of the machine, adjacent to the cylinders from which platform the operator can regulate the flow of the ink, get a casual view of the cylinders in revolution, and examine the printed bags as they are delivered from the machine with the printed side up on the delivery board located in the same relative position to the other parts of the machine as the delivery board in the patent in suit. The delivery mechanism also passes under the cross platform.

[3] It further appears from the evidence that the operator usually stands on the floor by the side of the machine, but at intervals during the normal operation of the machine he occupies the crouching position shown in Exhibits 1 and 2, and that from this position he can adjust the flow of ink from the platform while the press is in operation. It is insisted upon the part of the plaintiff in error that this is not a lithographic machine, that the cross platform is in face but a cross brace, and that the form cylinder on the sides which face away from the impression cylinder are obstructed by inking mechanism so that there is no exposed operating surface that can be reached from this platform or brace. The evidence, however, is clear that, whether it be called a cross brace or printer's platform, nevertheless it was used at intervals by the printer in charge of the operation of the machine. If perhaps it were too narrow to afford the printer a comfortable position, the mere widening of this platform for that purpose would not amount to invention.

It is undoubtedly true that the surface of the form cylinders in the Harris-W. bag press are more or less obstructed by the linking mechanism so as to leave very little of the exposed operating surface, but this same objection obtained, in a lesser degree perhaps, in the patent in suit because of the position of the water rolls. But in actual construction the plaintiff, plaintiff's licensee, and defendant have all increased the available exposed operating surface of the primary form cylinder by placing the water rolls on the opposite side of the machine instead of as shown in the North patent. This change from the original North idea in the location of the water rolls is substantially equivalent to the change in North of the inking mechanism in the Harris-W. bag press to a position that would expose a larger portion of the surface of the cylinder than in the bag press. Nevertheless, it could hardly be contended that the advantage of such change in the position of the water rolls would not be obvious to any practical operator of the machine or that such change would constitute invention.

The machine shown in the Goss catalogue prints a number of webs simultaneously. These webs pass through the printing mechanism and then along the floor underneath a stand at the lower right-hand corner of the machine, thence in a vertical direction to a guide roller, then downward over folding plates into a cutting machine, and then onto a delivery table. It is said that because these webs, after passing under the platform, are folded, cut, and then delivered, the delivery mechanism is entirely different from North's; but it is clear that this difference consists principally in the addition of a folding and cutting mechanism interposed between the delivery mechanism passing under the stand and the delivery table. It is evident that the omission of such intervening mechanism would permit a printer standing upon the platform to examine the printed sheet, printed side up upon the delivery table. It must also be remembered that North specifically states that any form of delivery mechanism may be used in his machine that will conduct the sheets beneath the printer's stand and deliver them printed side up on the delivery board.

In the Koenig & Bauer catalogue, a printing machine is shown with the platform over the tape which carries the sheets from the delivery cylinder of the press to the collecting cylinder of the delivery. An operator standing on the platform above the delivery board can reach the ink board of the second form cylinder, but perhaps not in such a way that any work can be done upon it. The evidence tends further to prove that an operator standing on this cross platform or printer's stand can, by leaning over the handrail, provided for that purpose, observe the printed sheets on the outer delivery board.

Hoe 113,769 shows two impression cylinders and two form cylinders with a feed table and a delivery table on the opposite side thereof, with sufficient space between the cylinders and the delivery board for a printer's stand; but no such stand is shown. Tapes are used to deliver the sheets from the printing cylinder overhead to fly sticks, which in turn deliver the sheets in direct line to the delivery table. Hoe differs from North principally in the fact, that his machine is an overhead delivery and no printer's stand is shown, although it would seem from the evidence that such a stand would be necessary or at least advantageous in the operation of a machine. Both of the Cottrell patents, Nos. 319,459 and 424,097, show reciprocating flat-bed presses with a rotary cylinder and a feed board and delivery table on opposite sides of the printing mechanism. 424,097 specifically relates to a printing machine for type, plate, or lithographic printing, and in this particular machine there

would appear to be sufficient space between the delivery table and the forward thrust of the reciprocating form bed to permit a printer to stand between the two in safety. From this position he could inspect the form bed and printed sheets.

If we are mistaken in this conclusion, nevertheless both of these patents, taken in connection with other citations to the prior patent art, show an advance in the development of printing machinery, before North came into the field, that left little room for invention, especially in the way of a new combination of old elements. This is further shown by the Wendte patents, No. 517,908 and No. 550,735, both relating to sheet-feed rotary presses for multicolor printing, White No. 689,527 and White No. 770,486, Linder 738,821, and other patents introduced in evidence, that it is unnecessary to discuss in detail.

Plaintiff in error insists, however, that none of these citations cover his combination in detail, and particularly that in addition to the printer's stand the pile delivery in the North combination is new and novel. However, none of North's claims call for a pile delivery, but, on the contrary, for a delivery board at the opposite side of the form cylinder from the feed board. The pile delivery is fully covered by Roesen No. 782,924, and the substitution of the Roesen pile delivery for a delivery board is not invention.

[4] It would therefore appear that North's combination presents nothing new or novel in the printing machine are beyond that which would naturally occur to an expert printer, and involves nothing beyond mechanical skill in the adaptation of the then existing rotary printing machine to lithographic printing.

If, however, it were conceded that the record fails to disclose prior use, prior knowledge, and patent anticipation of the North combination of old elements, nevertheless the trial court was right in finding that the claims of the patent do not embody a patentable combination.

While it is undoubtedly true that each element that enters into a patentable combination need not necessarily change or affect the action of others, yet it is equally true that each element of such combination must cooperate with all others and perform its particular duty in accomplishing the final results.

[5] The platform introduced by North into his combination, and which enters into every claim and apparently constitutes the basic idea of North, may, perhaps, be advantageous in economy and convenience of operation; nevertheless it performs no function in and of itself in the operation of the printing machine. In other words, this machine will, in the absence of the human agency, operate identically in the same manner and produce exactly the same results with or without the platform. Therefore it does not even function with the other elements of the combination, nor does it constitute an instrumentality through which and by which the printer performs his duty in the operation of this printing machine. It is no part or parcel of the machinery by and through which results are obtained. It merely provides a convenient position for the printer, and aside from that it has no purpose or connection with the operating parts of the machine. (*Grinnel* v. *Johnson*, 247 U. S. 426, 38 Sup. Ct. 547, 62 L. Ed. 1196; *Richards* v. *Chase Elevator Co.*, 158 U. S. 299, 302, 15 Sup. Ct. 831, 39 L. Ed. 991, 71 O. G. 1456; *Union Co.* v. *Keith*, 139 U. S. 530, 11 Sup. Ct. 621, 35 L. Ed. 261, 55 O. G. 285; *Fond du Lac* v. *May*, 137 U. S. 395, 11 Sup. Ct. 98, 34 L. Ed. 714, 53 O. G. 1884; and cases there cited; *Hailes* v. *Van Wormer*, 87 U. S., 20 Wall. 353, 22 L. Ed. 241; *Gas Machinery Co.* v. *United Gas Improvement Co.*, 228 Fed. 684, 143 C. C. A. 206, and cases there cited.)

For the reasons above stated the judgment of the District Court is affirmed.

U. S. Circuit Court of Appeals—Eighth Circuit.

MILLER v. MONARCH PRINTING CO. ET AL. INTERNATIONAL BLANK BOOK CO. ET AL. v. MILLER.

Decided November 8, 1922.

[285 Fed. Rep., 364.]

1. PATENTS—1,056,926, CLAIMS 1 AND 4, AND 1,019,174, CLAIM 1, FOR LOOSE-LEAF BINDING DEVICES, HELD ANTICIPATED.

   The Miller patent, No. 1,056,926, claims 1 and 4, and Miller patent, No. 1,019,174, claim 1, for binding devices for loose-leaf blank books, *Held* anticipated and invalid.

2. SAME—CLAIM ANTICIPATED BY MECHANICAL EQUIVALENT.

   A claim for a post for loose-leaf blank books was void where another had previously invented and reduced to use a post which was its mechanical equivalent.

3. SAME—GENERAL CLAIM VOID WHERE DEVICE PREVIOUSLY USED EFFECTIVLEY FOR SAME PURPOSE.

   A broad general claim to all devices for forcing flexing of the post of loose-leaf blank books is invalid where another had previously used a device very effectively for the same purpose, though differing from the one actually used by the patentee, though the patentee may be entitled to a patent for the particular device used by him.

4. SAME—1,033,356, FOR POST FOR LOOSE-LEAF BOOK, VALID, BUT NOT INFRINGED.

   The Thomas patent, No. 1,033,356, for a post for loose-leaf blank books, *Held* not anticipated or abandoned, but not infringed.

5. SAME—POST HAVING TWO CHARACTERISTICS NOT ANTICIPATED BY DEVICES NOT HAVING BOTH.

   A patent for a post for loose-leaf blank books having the two cardinal characteristics of resiliency and confinement to one plane was not anticipated by rigid posts or by a spiral spring post affording resiliency, but not confined to one plane.

6. SAME—THAT DEVICE SUGGESTED BY PATENTED DEVICE DOES NOT ESTABLISH INFRINGEMENT.

   That the construction of a device may have been suggested by a patented construction, to the extent that no invention would be involved, does not necessarily show that the later construction is an infringement.

APPEAL from the District Court of the United States for the Southern District of Iowa; Martin J. Wade, judge.

Suit by Henry C. Miller against the Monarch Printing Company and the International Blank Book Company. From a judgment against plaintiff on the main case, and against defendant Blank Book Company on its counterclaim, plaintiff appeals, and defendants brings a cross-appeal. Modified and affirmed.

Mr. Arthur L. Morsell for the appellant and cross appellee.

Messrs. Bair & Freeman for the appellees and cross appellants.

Before CARLAND and STONE, Circuit Judges, and MUNGER, District Judge.

STONE, *Cir. J.:*

These are cross appeals in a patent infringement suit. The complaint was by Henry C. Miller against the Monarch Printing Company for infringement and against the International Blank Book Company for contributory infringement of Miller No. 1,056,926 (improvements in loose-leaf binders) and Miller No. 1,019,174 (flexible binder posts) covering binding devices for loose-leaf blank books. Both defendants pleaded prior invention, citing Thomas No. 1,033,356 and Thomas No. 1,164,031; and the International also claimed infringement of the Thomas patents. Complainant pleaded anticipation as to the counterclaim, citing 15 designated patents. The claims involved at the trial were claims 1 and 4 of Miller No. 1,056,926, claim 1 of Miller No. 1,019,174, and the single claim of Thomas No. 1,033,356. The court held claims 1 and 4 of Miller No. 1,056,926 valid but not infringed; claim 1 of Miller No. 1,019,174 void because of prior invention, by Thomas, and Thomas No. 1,033,356 void because of uncertainty.

The subject matter of the patents in suit involve, in general, improvements in loose-leaf blank books used now so largely by business houses. In particular, they involve the so-called posts, which hold the leaves in place, and certain correlated devices intended to cause the book, when open, to so lie that practically all of the page will be exposed to view and for usage. We deem it unnecessary to describe the devices or claims in detail, as that information is easily accessible to any interested therein, and will state our conclusions.

[1, 2] The evidence is clear that Thomas invented and reduced to use a post which was the mechanical equivalent of claim 1 of Miller No. 1,019,174 some time before Miller. The court was therefore right in holding that claim void. Claim 4 of Miller No. 1,056,926 is substantially the same as claim 1 of Miller No. 1,019,174 above, except it is of this element as included in a combination. We think it should also fail, whatever may be said as to other claims covering the combination.

[3] Claim 1 of Miller No. 1,056,926 has the added feature of a means for forcing the flexing of the post. This claim is, in this respect, too general. Thomas, prior to Miller, used a device very effectively for the same purpose though it differed from the one actually used by Miller. This is proof of the invalidity and lack of right of Miller's general claim to all devices for forcing flexing of the post. He may be entitled to a patent in this respect for the particular device he uses, but not to the broad claim as allowed in the patent. We think, therefore, that the entire three claims of the two Miller patents here involved are void.

[4, 5] As to the cross appeal involving infringement of Thomas No. 1,033,356, the substantial defenses were abandonment, anticipation and dissimilarity of Miller construction. The patents relied upon for anticipation are Suckert No. 768,159, Strang No. 852,084, Schaub and Larsen No. 921,467, Larsen No. 971,202 and Wagniere No. 986,609. None of these are anticipatory. The posts in all except the Suckert patent are rigid, thus providing no resiliency, which is one of the two cardinal characteristics of the Thomas patent. The Suckert design as shown in Fig. 5 of the patent provides for a spiral spring post covered with rubber tubing. This would of course afford abundant resiliency, but would not be confined to one plane, which is the second characteristic of the Thomas device. We think the Thomas patent is valid. Abandonment was not proven.

[6] The final question is whether the Thomas patent is infringed by the Miller construction. We think that it is not. While the Miller construction might well be suggested from the Thomas construction and patent to the extent that no invention would be involved in the Miller construction, yet that need not necessarily mean that the Miller construction is an infringement. The Thomas claim, in this respect, is very narrow and specific and, so far as infringement is concerned, must be held down to its terms. So construed it is not infringed.

Our conclusion is that the claims of the Miller patents involved are void and that the Thomas patent is valid, but not infringed. This would require affirmance of the decree with modifications as to the validity of claim 1 of Miller No. 1,056,926, which we deem invalid, and of the Thomas patent, which we deem valid, but not infringed.

Therefore the decree will be modified to the extent of holding claim 1 of Miller No. 1,056,926 invalid and Thomas No. 1,033,356 valid but not infringed, and, as thus modified, is affirmed.

U. S. Circuit Court of Appeals—Sixth Circuit.

FULTON CO. v. BISHOP & BABCOCK CO.

Decided November 17, 1922.

[284 Fed. Rep., 774.]

1. PATENTS—903,465, FOR BELLOWS WALL FOR VAPORS, VOID FOR LACK OF INVENTION.

   The Fulton patent, No. 903,465, for a flexible corrugated wall for confining a vapor, the claimed novelty in which is in making the spaces between the corrugations narrow enough so that they would retain water of condensation through capillary force, *Held* void for lack of invention in view of the prior art, which contained corrugations of the same dimensions which performed the same function, though not expressly designed for that purpose.

2. SAME—PRIOR PATENTS PART OF PRIOR ART FOR WHAT IS DISCLOSED ON THEIR FACE.
Prior patents are part of the prior art only by what they disclose on their face.

3. SAME—ACCIDENTAL PRIOR PRODUCTION OF SAME THING MAY NOT ANTICIPATE.
Prior accidental production of the same thing, where the character and function were not recognized until the invention of the later patent, does not effect anticipation.

4. SAME—INCIDENTAL SIMILARITY IN PRIOR DRAWING NOT ANTICIPATION.
Anticipation is not disclosed by a drawing which only incidentally shows a similar arrangement of parts where such arrangement is not essential to the first invention and was not adopted and used to perform the function which it performs in the second invention and where the first patent contains no suggestion of the way in which the result sought is accomplished by the second inventor.

APPEAL from the District Court of the United States for the Southern District of Ohio; John W. Peck, judge.

Suit in equity by the Fulton Company against the Bishop & Babcock Company. Decree for defendant, and complainant appeals. Affirmed.

Mr. S. T. Cameron (*Mr. Loyd H. Sutton* and *Mr. Malcolm McAvoy* on the brief) for the appellant.

Mr. Horace B. Fay and *Mr. Jesse B. Fay* for the appellee.

Before KNAPPEN, DENISON, and DONAHUE, Circuit Judges.

KNAPPEN, *Cir. J.*:

[1] This appeal is from the decree of the district court dismissing bill for infringement of United States Patent No. 903,465, November 10, 1908, to Fulton, assignor to plaintiff. As stated in the specification, the invention relates to flexible, corrugated, tubular walls for confining vapors "whose boiling points are considerably above ordinary atmospheric temperatures." Such expansible and collapsible walls (frequently called "bellows" walls) had been commonly used for many years, not only in various thermostatic devices, to control and regulate the flow of different materials under changes of temperature, but, as one of the prominent uses, as a wall for a steam valve—a "packless" valve.[1] The general form of the "bellows" wall of the patent was common and well known. Its only claim to novelty lies in the discovery that, if the spaces between the corrugations are made narrow enough to permit the operation of capillary force, or surface tension, they will retain water through the condensation of the vapor, thus preventing the incrustation of the corrugated wall, by the deposit of foreign matter carried by the vapor (which tends to impair the flexibility and integrity of the wall), as well as lessening the injurious effect of high temperatures on such flexibility. It satisfactorily appears that long prior to and at the time of the issue of this patent there existed standard and well-known formulas for determining the maximum space within which capillary action would operate as related to various kinds of liquids and at various temperatures. It appeared, for example, that capillary force would operate in the case of water at 28 degrees centigrade (approximately living-room temperature), with a maximum spacing between parallel corrugations of about 3⅛ millimeters, and at the boiling point at about 3½ millimeters. There was testimony tending to show that capillary action would under some conditions occur with even wider spaces between corrugations. Claim 3 of the patent, which for the purposes with which we are concerned may be taken as fairly typical of the claims, reads thus:

3. A flexible corrugated wall for confining a vapor, said wall having corrugations the successive folds of which are in sufficient proximity to consitute liquid-retaining recesses, the liquid being retained therein against gravity by capillary action while the wall expands and collapses, and means limiting the expansion of the wall within the limits of capillary action for the corrugations.

The defenses are lack of patentable invention, lack of sufficient disclosure as well as of utility, and noninfringement. The district court found in plaintiff's favor on all of these issues except that of patentable invention, basing its conclusion of lack thereof upon the well-settled proposition that the end or purpose sought to be accomplished by a device is not the subject of a patent, but only the means for obtaining that end, and that, unless such means involve invention, no support is given by the end sought to be secured. As tersely expressed by the district judge, "Mere concept, without new mechanical means, is not patentable." (*Knapp* v. *Morss*, 150 U. S. 221, 228; 14 Sup. Ct. 81, 37 L. Ed. 1059.)

The court concluded that the mechanical means for carrying out the concept were not novel, but were anticipated by the prior art, and especially by certain patents therein.

In our opinion, the correct result was reached, whether or not the prior patents in question are regarded as technically anticipatory or as disclosing a state of the prior art which left no room for invention in the device of the patent in suit. Manifestly, if plaintiff's patent involves invention, it must be found, not in the use of a corrugated or "bellows" tubular wall, but in selecting from the variously spaced corrugations theretofore at least open to use by the public (and by devoting to the monopoly of the patent in suit) such widths of spacings as would yield capillarity, such various widths depending upon the kinds of liquids and the temperatures at which they were to be used. The prior inventors, so far as appears, had no occasion to specify the distances between corrugations. Generally speaking, the disclosures were broad enough to cover whatever widths of spacings would best serve the purposes involved in the specific uses to which they were to be put. Under these prior patents, during their life the patentees, and afterwards the public, had a right to make flexible valve walls of any desired width of spacing between corrugations, including such

[1] The only valve structure illustrated in the patent drawings is a steam valve surrounded by an ordinary tubular "bellows" wall. The alleged infringing use was in steam valves.

spacing as would be necessary to effect capillarity. Fulton's use of narrowly-spaced corrugations thus did not involve the adoption of any peculiarity of form in the sense in which that term is ordinarily used. We greatly doubt whether he can be said to have discovered or disclosed new mechanical means for carrying out the conception on which his asserted invention is based, even if, as is contended, the prior art did not specifically disclose spacings narrow enough to permit capillary action. We think, however, that certain prior patents fairly disclose spacings narrow enough to permit such action.

The drawings of the Graham & Creelman patent No. 350,881, October 12, 1886, disclose a steam valve with bellows walls containing 13 corrugations. The measurements on the drawing are for pipe of about 1⅛ inches external diameter, which in iron pipe would mean an inside diameter of about three-fourths of an inch, which the evidence shows to be a convenient, useful, and commercial size. In a physical embodiment with the same number of corrugations as disclosed in the patent drawing, and made up in accordance therewith, the spacings between the corrugations are less than two millimeters, which is only about one-half the maximum spacing in which capillary force concededly is operative. The drawing of the Parsells' bellows valve (Patent No. 600,249, March 8, 1898) shows five corrugations, the pipe opening measuring (outside) three-fourths of an inch.[2] In a physical embodiment of the device so shown by the drawings the spacing is well within the capillary limits. The drawings of the McCloskey patent, a prior Fulton patent, and the Armand patent (if accepted as having any evidential effect) have a tendency to disclose spacings within the limits of capillarity, although not as convincingly as in the case of Graham & Creelman and Parsells.[3] Judge Peck was of opinion that the former patents were entitled to a range of sizes applicable to the respective arts with which they deal, and so to be considered as covering the respective commerical sizes in such arts, and that in small commerical sizes the devices in question would, if made in the proportions of their drawings, have the folds of their tubing "in sufficient proximity to constitute liquid retaining recesses against gravity by capillary action"; that the capillary function was thus inherent in the devices there shown, if made to the proportions of their drawings, and in sizes small enough to bring the spacings of their folds within the limits of the law of capillarity; and that Fulton thus did not change the structure, form, or size of the previously known "bellows" wall, but only specified that the spacing thereof should be of such width as to hold water by surface tension. With this view we are disposed to agree.

[2] A one-half inch pipe (presumably inside diameter) is also a standard commercial size.

[3] The physical embodiments of the Graham & Creelman, Parsells, and McCloskey valve walls retain water between the corrugations in the same way as does plaintiff's wall.

[2–4] It is true that in the patents referred to no reference is made to the capillary feature, nor is there anything to indicate that that principle was known to the respective patentees. None of them show retention of the liquid between the corrugations, and none contain statement that the patent drawings are made to scale, and drawings attached to patents are frequently greatly reduced in size. In the case of Graham & Creelman it appears that the valve shown in the patent was never manufactured (there is no showing of manufacture in the case of the others); and plaintiff's expert says that a three-fourths-inch pipe size is inconsistent with the showing of other parts of the drawings. We recognize that prior patents are part of the prior art only by what they disclose on their face (*Naylor* v. *Alsop Process Co.*, C. C. A. 8, 168 Fed. 911, 920, 94 C. C. A. 315; *Munising Co.* v. *American Sulphite Pulp Co.*, C. C. A. 6, 228 Fed. 700, 703, 143 C. C. A. 222); that prior accidental production of the same thing, where the character and function were not recognized until the invention of the later patent, does not effect anticipation (*Tilghman* v. *Proctor*, 102 U. S. 707, 711, 26 L. Ed. 279, 19 O. G. 859; *Topliff* v. *Topliff*, 145 U. S. 156, 161, 12 Sup. Ct. 825, 36 L. Ed. 658, 59 O. G. 1257; *Canda* v. *Mich. Iron Co.*, C. C. A. 6, 124 Fed. 486, 492, 61 C. C. A. 194; *Munising Co.* v. *American Co.*, supra, 228 Fed. at p. 703, 143 C. C. A. 222); and that anticipation is not disclosed by a drawing which only incidentally shows a similar arrangement of parts, where such arrangement is not essential to the first invention, and was not itself adopted and used to perform the function which it performs in the second invention, and where the first patent contains no suggestion of the way in which the result sought is accomplished by the second inventor. (*Gray Telephone Co.* v. *Baird Co.*, C. C. A. 7, 174 Fed. 417, 421, 98 C. C. A. 353; *Munising Co.* v. *American Co.*, supra, 228 Fed. at pp. 703, 704, 143 C. C. A. 222.)

But we think these rules do not destroy the probative force of the patent drawings in question, considered in connection with the physical embodiments thereof. The case presented is not one of arrangement of parts. We think these disclosures are not necessarily to be regarded as merely accidental or "incidental," as related to the number of corrugations and the consequent spacings therebetween, having in mind that the drawings inferably had some relation to commercial sizes in a common and well-known art (plaintiff's expert apparently concedes that "certain features of certain drawings [apparently those cited as prior references] * * * indicate roughly what the dimensions of the parts might be if the structures were made in accordance with the general practice");[4] that there is a wide margin between the width of spacings in the physical reproduction of the device of the Graham & Creelman drawings and the maximum-width spacings which permit capillary action,

[4] The fact that a change of scale in the drawings would affect other dimensions of the corrugations is not a weighty consideration. These other dimensions are not important. The important thing is the spacing between the corrugations.

and the fact that it might well have been thought, or actually found, that a large number of corrugations (resulting in narrower spacings between them) bore some relation to flexibility and "lift" (the latter being one of the talking points of the structure of plaintiff's patent), and so made the wall more efficient, such greater efficiency in length of life or otherwise being in fact due to capillarity, although such cause was not recognized. In these circumstances, the fact that the drawings are not shown to be made to scale, or even that there are inconsistencies in the measurements, should not be enough to destroy their otherwise probative effect. Indeed, we have accepted patent drawings not shown to have been made to scale as having, under the facts of the case, some probative force, and as indicating that the disclosures thereby are not merely accidental. (*Luten* v. *Whittier*, 251 Fed. 590, 597, 598, 163 C. C. A. 584.)

We think the conclusion of noninvention is not in conflict with *Minerals Separation, Ltd.*, v. *Hyde* (242 U. S. 261, 37 Sup. Ct. 82, 61 L. Ed. 286, 234 O. G. 1311), where a process which required less of a certain element was held patentable. But in that case patentability was not found to reside merely in the use of such smaller amount; the patented process was held to belong to neither of the previously-existing processes, but to differ "essentially from the prior processes in its character, in its simplicity of operation, and in the resulting concentrate." (242 U. S. 266, 37 Sup. Ct. 84, 61 L. Ed. 286.)

Being of opinion that the district court rightly held the patent void for lack of invention, it is unnecessary to consider the other grounds of invalidity asserted.

The decree of the district court is affirmed.

U. S. Circuit Court of Appeals—Fourth Circuit.

INTERNATIONAL FLATSTUB CHECK BOOK CO., INC., *v.* YOUNG & SELDEN CO. OF BALTIMORE CITY.

Decided November 24, 1922.

[284 Fed. Rep., 831.]

1. PATENTS—1,307,708, FOR CHECK BOOK, VOID FOR ANTICIPATION.
   The Smith patent, No. 1,307,708, for a check book, *Held* void for anticipation.
2. SAME—COMMERCIAL SUCCESS AS EVIDENCE OF INVENTION.
   Commercial success is persuasive of invention in doubtful cases; but such success may be due to advertising or other causes having no relation to the novelty of the article.
3. SAME—PRESUMPTION OF NOVELTY LESSENED WHEN ANTICIPATING PATENT IS NOT CITED.
   The presumption of validity arising from grant of the patent is greatly weakened where the file wrapper contains no reference to an alleged anticipating patent.

APPEAL from the District Court of the United States for the District of Maryland, at Baltimore; John C. Rose, judge.

Suit in equity by the International Flatstub Check Book Company, Inc., against the Young & Selden Company of Baltimore City. Decree for defendant, and complainant appeals. Affirmed.

For opinion below, see 278 Fed. 835.

Mr. John Watson, jr. (*Messrs. Pollard & Smith* on the brief) for the appellant.

Mr. Edwin F. Samuels (*Mr. Redmond C. Stewart* on the brief) for the appellee.

Before KNAPP and WOODS, Circuit Judges, and MCDOWELL, District Judge.

WOODS, *Cir. J.:*

[1] The bill alleges infringement of Patent No. 1,307,708 and asks for injunction and accounting. The claim of the patent is:

> A check book comprising back, a pad of sheets *mounted on the back*, each sheet perforated to form a stub and a check, said stubs *secured together and to the back* along their upper edges, a cover, and a flexible web secured to the respective ends of the back and the cover to form a hinge whereby the cover may be folded over upon the pad and may be swung free of the stubs to allow the stubs to be folded upwardly for easy inspection of the stubs.

The district court dismissed the bill, finding anticipation by the Loewenbach patent, No. 519, 769, May 15, 1894, and lack of any inventive improvement. The advantage claimed for the plaintiff's book is a flexible back or end with the stubs only attached thereto, so that when the checks are detached the stubs can be folded under the book out of the way of the writer, and the cover can be thrown back out of the way, thus facilitating examination of the stubs.

Evidently attaching the stubs to the end or the top of the book was a matter of choice, and either method could be used and was used under the patent. The exhibits introduced at the trial and the illustrative check books used in argument here show plainly that the Loewenbach patent contained everything that was embraced in plaintiff's claim and plaintiff's book. It is true that Loewenbach's patent embraced more, namely, a blotter and a pocket by means of which the stubs could be removed and a new set inserted, thus preserving for use the covers of the book. But there was no invention in the thought that the check book would be preferable without the blotter and the pocket.

[2] Much stress is laid on the fact that the Loewenbach book does not appear to have been a commercial success, while that of the plaintiff has been largely adopted, and books to the amount of about $270,000 were sold in one year under licenses from plaintiff. Commercial success is persuasive in doubtful cases, and the more doubtful the case in other respects the more persuasive it becomes. (*McLean* v. *Clapp*, 141 U. S. 429, 12 Sup. Ct. 29, 35 L. Ed. 804; *Huebner-Toledo Breweries Co.* v. *Mathews Co.*, 253 Fed. 435, 447, 165 C. C. A. 177; *Meinecke & Co.* v. *Lisk Mfg. Co.*, D. C., 274 Fed. 747.) But success may be due to advertisement or other causes. It is not always possible to find the reason why a thing may at one time receive no attention and at another be quickly and generally adopted in the trade or art. Especially in minor patents those engaged in the trade or art often prefer to pay the license fee rather than go to the expense and trouble of contesting a doubtful patent.

[3] The presumption of validity from the issuance of the patent ought generally to have great weight, but in this case it is greatly weakened by the fact that the file wrapper does not contain any reference to the Loewenbach patent. This fact indicates that the Loewenbach patent was overlooked by the Patent Office. (*American Soda Fountain Co.* v. *Sample*, 130 Fed. 145, 149, 64 C. C. A. 497; *Westinghouse Electric Mfg. Co.* v. *Toledo Co.*, 172 Fed. 371, 392, 97 C. C. A. 69; *Elliott & Co.* v. *Youngstown Car Mfg. Co.*, 181 Fed. 345, 104 C. C. A. 175, 160 O. G. 1273.)

Affirmed.

U. S. Circuit Court of Appeals—Fifth Circuit.

STANDARD BRICK CO. *v.* DENISON INTERLOCKING TILE CORPORATION. CHEROKEE BRICK CO. *v.* SAME.

Decided December 8, 1922.

[285 Fed. Rep., 108.]

1. PATENTS—GROUNDS FOR REISSUE OF PATENT STATED.
   Under Revised Statutes section 4916 (Comp. St. sec. 9461), it is permissible for a reissue patent to remedy the omission of the original to describe with certainty the invention and to correct the fault of the original in making the claims narrower than the invention where the invention was disclosed by the original patents due diligence was exercised in discovering the mistake and in applying for the reissue, and the application was made before any third person acquired the right which the applicant failed to claim in his original application.
2. SAME—REISSUE 13,299, FOR HOLLOW BUILDING BLOCK, HELD AUTHORIZED BY ORIGINAL SPECIFICATION.
   The Denison reissue patent, No. 13,299, for a hollow building block, *Held* authorized by the original specification and the surrounding circumstances.
3. SAME—ACQUIESCENCE IN REJECTION OF CLAIMS DOES NOT AFFECT CLAIMS OF MORE LIMITED SCOPE.
   Acquiescence in the rejection of claims in a patent application can not have the effect of changing the construction of the language used in claims which were allowed and which contained limitations not found in the rejected claims.
4. SAME—REISSUE 13,299, CLAIMS 1, 2, 8, AND 9, FOR HOLLOW BUILDING BLOCK, HELD VALID AND INFRINGED.
   The Denison reissue patent, No. 13,299, claims 1, 2, 8, and 9, for a hollow building block having walls or partitions in the hollow so located that when the blocks are laid the four vertical load-bearing members of the block will be in line with those members in a similar block above it, *Held* valid and infringed.

APPEALS from the District Court of the United States for the Southern District of Georgia; Beverly D. Evans, judge.

Separate suits in equity by the Denison Interlocking Tile Corporation against the Standard Brick Company and the Cherokee Brick Company, for infringement of a patent. Decree for plaintiff in each case, and defendants separately appeal. Affirmed.

Mr. Frederick S. Lyon, Mr. Leonard S. Lyon, and *Mr. Warren Grice* for the appellants.

Mr. Merrell E. Clark and *Mr. Roland Ellis* (*Mr. Merrell E. Clark* and *Mr. Charles Neave* on the brief) for the appellee.

Before WALKER, BRYAN, and KING, Circuit Judges.

WALKER, *Cir. J.:*

These are appeals by the defendants below from two decrees adjudging valid and infringed the following claims of Reissue Letters Patent No. 13,299 to W. C. Denison; the appellee being the assignee thereof:

> 1. A building block for wall structures consisting of two hollow rectangular members connected in interrupted relation to provide a top made up of two independent mortar beds, and provided with two outer walls and two inner webs whereby when a plurality of said blocks are imposed one upon another in a wall structure, said webs stand in vertical tiers throughout the structure.
>
> 2. A hollow building block having opposite faces interrupted intermediately to provide whichever side is uppermost, a top consisting of two mortar beds only, said block having two vertical internal webs normal to the mortar beds and positioned respectively beneath the inner part of said mortar beds, whereby when the blocks are placed surmounting one another in a wall there are provided two vertical tiers of internal webs.
>
> * * * * *
>
> 8. As a new article of manufacture a hollow building block, consisting of two portions relatively offset one with reference to the other, whereby the block is capable of having only two mortar beds between it and a similar adjacent block above it, the block having an interior vertical web transverse to the planes of the mortar beds and adapted to stand in alinement with a web in such similar adjacent block when the latter rests on the two mortar beds and the sides of the blocks are in alinement.
>
> 9. As a new article of manufacture a hollow building block having opposite faces each consisting of two planes offset with reference to each other, whereby whichever side of the block is uppermost there are two mortar beds, said block having two outside walls and an internal web alined with an external intermediate wall connecting offset surfaces of one face of the block, and another internal web spaced from the other side of the block a distance corresponding to that at which the web first mentioned is spaced from its side, the space between the two webs being less than the space between either web and the outside wall.

The claims asserted by the bill in each of the cases were resisted on the grounds: (1) That the patent sued on is invalid because it was not authorized by the law on the subject of reissue of defective patents. (Rev. Stat. sec. 4916. Comp. St. sec. 9461.) (2) That because of what occurred in the Patent Office while the application for the reissue patent sued on was pending that patent did not cover all hollow building blocks embodying the combination of features or elements described or indicated in allowed claims. (3) That the patent sued on was invalid because of lack of invention and of prior discovery. And (4) that there was no infringement. Those grounds will be considered in the order stated.

1. The original patent to Denison was issued December 7, 1909, on an application filed October 1, 1908, and the application for the reissued patent was filed April 13, 1911. The drawings referred to and made a part of the reissued patent were copies of those shown in the original. The subject of each of them was a hollow building block. Every element pointed out and described in the specification and claims of the reissue are found in the structures disclosed by the drawings of the original. Figure 1 in both the original and the reissue is a T-shaped hollow block, composed of a head having one rectangular hollow and a tongue extending from the middle of one side of the head, the tongue containing two rectangular hollows, a narrow one next to the side of the head, and a wider one separated from the head by the narrow one. Figures

2 and 3 in both the original and the reissue disclose sections of walls of different widths in which are laid such T-shaped blocks as Figure 1 pictures. From a comparison of the original and reissued patents it is apparent that the former inadequately described the features of the combination disclosed which might be relied on as bases of claims of patentable novelty, and that the claims thereof were so expressed as to be limited to the particular form of block shown in Figure 1.

[1, 2] Under the statute it is permissible for a reissue patent to serve the purposes of remedying the omission of the original to describe with requisite certainty the patentee's invention, and of correcting the fault of the original in making the claims allowed narrower than the actual invention of the patentee, where that invention was disclosed by the original patent, due diligence was exercised in discovering the mistake in the original and in applying for the reissue, and the reissue application was made before any third person acquired the right to do what the applicant failed to claim in his original application. (*Topliff* v. *Topliff*, 145 U. S. 156, 170, 12 Sup. Ct. 825, 36 L. Ed. 658, 59 O. G. 1257; *American Automotoneer Co.* v. *Porter*, 232 Fed. 456, 146 C. C. A. 450.) We do not think that the record shows that there was anything in the circumstances attending the making of the reissue application having the effect of preventing the issue on that application of the Reissue Letters Patent sued on.

[3] 2. In the proceedings under the reissue application there was a rejection of certain claims similar to claims which were allowed, except that the allowed claims contained limitations or qualifications not expressed in the rejected ones. Those rejections were acquiesced in. In argument that incident is sought to be given the effect of making the meaning of allowed claims different from that expressed by their language. We do not think that that contention is sustainable. In the case of allowed claims which are so expressed as to be limited to a structure therein described, of course that limitation is to be given due effect in construing the claim. It does not follow that any allowed claim is to be given a meaning different from that expressed by its language.

[4] 3. It is not claimed that there was novelty in any separate feature of such a hollow building block as would answer the description and claims of the patent in suit. In substance what is claimed to have been new and patentable is such a combination as results in a hollow building block having two horizontal mortar beds which are offset with reference to each other, being on different levels or planes, one being higher than the other, and having the walls or partitions of the hollows so located that when such blocks are laid in a wall the four vertical load-bearing members of each block, namely, its two outer vertical walls and its two vertical interior walls or partitions, will be in line with the load-bearing members of a similar block below it and of any such block laid above it. No evidence adduced showed that prior to the application or issue of the patent in suit there was or had been in existence a building block embodying the combination of elements or features disclosed by that patent.

There is nothing in the record to warrant a finding that the application for the patent in suit did not disclose a new invention or discovery within the meaning of the patent law. It has not been contended that what was so disclosed was lacking in usefulness. A finding that building blocks answering the description and claims of the patent sued on were useful could be well based on the permissible inferences that a wall constructed of such blocks would be laterally stronger because of the interlocking resulting from the lateral mortar beds of each block being offset or on different levels, and would be vertically stronger by reason of the vertical walls or partitions of each block being in line with such walls or partitions of the block laid below or above it. It is not necessary to determine whether such building blocks are useful in other respects. We do not think that on any ground urged or discovered it was error to adjudge that claims 1, 2, 8, and 9 of the patent sued on were valid.

4. The alleged infringing structure is covered by Patent No. 1,341,071, issued to R. S. Requa, May 25, 1920, on his application filed September 18, 1918. The subject of that patent is a hollow-tile unit, such as is disclosed by the description and claims of the patent. It is not seriously disputed, and is not fairly open to dispute, that the Requa tile unit embodies the above-mentioned combination of elements or features protected by the patent sued on; that the terms of the four claims of the patent sued on which were adjudged to be valid apply as literally to the Requa tile unit as to the hollow building block shown in Figure 1 of the patent sued on. It is claimed for the Requa tile unit that it is superior to the type of hollow tile disclosed by the patent in suit, in that the former or a separable part of it may be used in wall building for purposes to which the latter is not adaptable; that a wall, including corners and openings, may be constructed by using nothing but the Requa tile unit, a part or parts thereof being knocked off as occasion may require, while special forms are required in constructing such parts of a wall in which the Denison block is used.

It is not necessary to inquire whether superiority in the respect mentioned or in other respects suggested does or does not exist. The patent granted to Requa is incapable of conferring on him or his assign the right to use the combination protected by the patent sued on, though the structure devised by Requa embodied also other new and useful features. It is enough for the use of the Requa tile unit to constitute infringement of the patent sued on that such tile unit embodied the combination protected by valid claims of the patent sued on.

The decree in each of the cases is affirmed.

U. S. Circuit Court of Appeals—Eighth Circuit.

LUTEN *v.* KANSAS CITY BRIDGE CO.

Decided December 23, 1922.

[285 Fed. Rep. 840.]

1. PATENTS—ORDINARILY PATENT MAY BE ADJUDGED INVALID ONLY AFTER HEARING ON PROOFS.
Want of invention or patentability may be adjudged on motion or demurrer, but only in exceptional cases, where the question is absolutely free from doubt. Ordinarily a patent should not be defeated without hearing on proofs.

2. SAME—A "PATENT" IS AN ADJUDICATION THAT A DEVICE IS THE PRODUCT OF INVENTOR'S GENIUS AND A CONTRACT OF THE UNITED STATES THAT HE SHALL ENJOY EXCLUSIVE RIGHT TO USE AND VEND.
A patent is an adjudication by the officials of the Patent Office that the device of the combination is the product of the genius of the inventor and a contract of the United States that the patentee shall enjoy the exclusive right to use and vend the invention.

3. SAME—NEW COMBINATION OF OLD ELEMENTS MAY BE PATENTABLE.
A new combination of old elements whereby an old result is obtained in a more facile, economical, and efficient way or whereby a new and useful result is secured may be protected by patent as securely as a new machine or a new combination of matter.

4. SAME—DIFFERENT LOCATION OF OLD ELEMENTS, SECURING BETTER RESULT, IS PATENTABLE.
A new combination of old elements in which by a different location of one or more of the elements a new and useful result is attained or an old result is produced in a better way is patentable.

5. SAME—DIFFERENT COMBINATIONS WHICH ACCOMPLISH THE SAME RESULT MAY EACH BE PATENTABLE.
When the advance in an art toward the thing desired is gradual and several inventors form different combinations which accomplish the result sought with varying degrees of success, each is entitled to his own combination as long as it differs from those of his competitors and does not include theirs.

6. SAME—802,004 AND 1,106,880, FOR FALSE WORK FOR CONSTRUCTION OF BRIDGE ARCHES, NOT INVALID ON THEIR FACE.
The Luten patents, Nos. 802,004 and 1,106,880, both relating to the construction and removal of false work used in the construction of bridge arches, *Held* not void on their face for lack of invention or patentability.

APPEAL from the District Court of the United States for the Western District of Missouri.

Suit in equity by Daniel B. Luten against the Kansas City Bridge Company. Decree for defendant, and complainant appeals. Reversed.

For opinion below, see 272 Fed. 533.

Mr. Russell T. McFall (*Messrs. Boxcersock & Fizzell* and *Mr. Daniel Royse* on the brief) for the appellant.

Mr. Samuel W. Sawyer (*Mr. O. W. Pratt* and *Messrs. Lathrop, Morrow, Fox & Moore* on the brief) for the appellee.

Before SANBORN and CABLAND, Circuit Judges, and TRIEBER, District Judge.

SANBORN, *Cir. J.*:

The plaintiff below has appealed from an order of the district court granting a motion made by the defendant that the plaintiff's bill in equity for infringement of patents be dismissed. The plaintiff has alleged in his complaint that he was the inventor and the owner of the exclusive right to use the improvements described therein and patented to him by Letters Patent No. 802,004, issued October 17, 1905, and Letters Patent No. 1,106,880, issued August 11, 1914, and that the Kansas City Bridge Company, the defendant, had infringed claims 1 and 3 of Patent No. 802,004, and claims 2, 3, 4, 6, 8, 9, 11, 12, and 13 of Patent No. 1,106,880, in the construction of a reenforced-concrete bridge at Ellsworth, Kans.

The art to which these patented improvements relate is that of the erection and removal of the false work for the construction of arches of considerable span, such as 75 feet and more, of bridges made of stone, masonry, or reenforced concrete. The desideratum which the patentee and his competitors in the art were seeking was the combination of mechanical elements and the method of operation thereof, by means of which the false work for the erection of such a bridge might be constructed, used, and removed in the most economical, safe, inexpensive, and efficient way, so that, as the false work was withdrawn after the completion of the arch, the stresses might be imposed upon it throughout its entire length and width, so slowly, gradually, and uniformly that its shape should be carefully preserved and the new arch should sustain no fall, shock, or injury as it settled into its final position and received its burden.

Such arches are built upon wooden arches or false work beneath them, and this false work is removed after their completion. There was difficulty and danger in this removal. If the false work were suddenly or too rapidly withdrawn, either in whole or in part, the new arches might fall. If the stresses which came upon it after its completion were not uniformly and gradually imposed on all the parts of the new arch as it settled into its permanent position, its shape might be changed, or parts of it might fall.

Prior to the alleged inventions of the patentee, the posts or uprights used to support the wooden arch of the false work were of sufficient size and cross-section to sustain beyond all doubt the weight of the arch of masonry or concrete, and in order to avoid the dangers of withdrawal of the false work those posts were based on greased wedges, or on sand in plugged boxes. When the concrete or masonry arch was complete, these wedges were driven out from beneath the uprights or posts, or, if they rested upon sand in boxes, the plugs were withdrawn from the boxes and the sand was permitted to run out. In these ways provision was made for the gradual settling of the new arch into its place. The plaintiff conceived, constructed, used, and obtained his patents for a new combination of mechanical elements, which, by a new method of operation, accomplished the construction and removal of the false work for such arches without the use of the large heavy uprights or posts, the greased wedges, and the sand and sand boxes.

His combination includes, instead of heavy posts or uprights of cross section sufficient to support the new arch beyond doubt at all times, a plurality of light posts or uprights, each of which consists of two members, generally about six inches wide and two inches thick, the sum of the individual strength of which is sufficient to support the load which united they easily sustain. These two members stand on a secure footing. The upper end of one of them is nailed or otherwise fastened to one of the joists of the false work. The second member is fitted accurately under the joist by wedging or otherwise, is placed in such a position in relation to the first member as to form with it a post substantially T-shaped in cross section. These two members are fastened together in this position by wire wound tightly around them, or by some similar means, so that each will strengthen the other while they are thus bound together, and so that they may be readily released from each other, so that each may separately buckle and yield under the same load, which, when they were bound together, had been easily sustained by them. These posts or supports are further strengthened by braces, which lie in a plane substantially parallel to the axis of the bridge and are attached to those of the members of the posts, which, under the applied load, will tend to buckle in the direction of the axis of the bridge. In his specification the patentee stated:

> This construction results in extremely light posts of great strength, placed with minimum of labor, and with secure connections, yet which will serve as an extremely rigid false work support during the erection of any structure.

After the arch is completed and sufficiently set, the patentee causes the false work itself to settle and the stresses to be imposed upon the new arch gradually and uniformly, by selectively and gradually withdrawing the braces and cutting the wires which hold together the two members of each of the posts, and permitting those members to buckle as they will under the load which, united, they supported. This buckling of the members discloses at a glance what parts of the arch, if any, are settling too rapidly or too slowly, and enables the superintendent immediately to apply the proper remedy to prevent any change of the shape of the arch, or the fall of or shock to any part thereof.

Some of the advantages which the patentee claims result from the use of his combination are that it accomplishes the desired result more surely, safely, and effectively than the use of wedges or sand boxes; that the driving out of the wedges is heavy and dangerous work, which may result in a sudden fall or shock to the new arch, or some part thereof; that sand in boxes may become wet and refuse to flow at all, or may flow from some of the boxes and fail to flow from others; that in the use of the wedges or sand it is difficult to perceive quickly what parts of the arch may be settling too rapidly or too slowly, until it is too late to prevent shock, change of shape, and injury, while in the use of the plaintiff's combination the buckling members or posts show at a glance how each part of the arch is settling, and the selective handling of the wires and braces gives complete control of every part thereof at all times, and assures a slow, gradual, uniform, cushion settlement of the arch into its permanent position.

The patentee also claims that the use of his combination and method of operation is much less expensive than the use of the older methods; that it eliminates entirely the expense of using the wedges, sand boxes, and sand; that it substitutes for the heavy uprights or posts of the earlier art the light posts of two united, but separable, members, and thereby dispenses with a large force of laborers requisite to handle the heavy timbers, and enables two or three men to build and remove the false work; that it permits the repeated use in the construction of false work for successive bridges of the same light materials, while the heavier timbers of the earlier art are often useless for the construction of a second bridge and are expensive to transport.

Claim 2 is typical of the claims of Patent No. 1,106,880. It reads in this way:

> A falsework centering comprising a joist supported by a compound compression member composed of a plurality of pieces, each having major and minor dimensions transverse to its length, the major dimension of one piece being arranged longitudinally of and overlapping the joist and transversely to the major dimension of another piece of the compression member, and a releasable connecting member to unite the pieces of the compression member.

Other claims in suit include the combination with the posts composed of two members with the braces which have been described.

In his complaint the plaintiff alleges that heretofore there have been produced by him or by others under his instructions and licenses more than 5,000 reenforced-concrete bridges, in the construction of which the inventions described in the patents in suit were employed and practiced, that the use of them is of great value to him, and he prays for an injunction, accounting, and damages.

[1, 2] The court below dismissed the plaintiff's complaint on motion, without giving him an opportunity to sustain his petition by proof. A patent is an adjudication and a contract, an adjudication by a quasi-judicial body, the officials of the Patent Office, that the device of the combination patented was the product of the genius of an inventor, and a contract of the United States with the patentee that he shall enjoy the exclusive right to use and vend the invention for 17 years. That adjudication and that contract, like the adjudications of other quasi-judicial bodies, are sustained by a strong legal presumption that they are right, just, and valid, and unless they are without doubt void on their faces, they may not lawfully be set aside or disregarded without full proof of their invalidity. In view of these facts and this presumption, the established rule and practice in equity has become that: Want of invention or patentability may be adjudged on motion or demurrer, but only in exceptional cases, where the question is absolutely free from doubt. Ordinarily a patent should not be defeated without hearing upon proofs. (*Chinnock* v. *Paterson, P. & S. Tel. Co.*, 3d C. C. A., 112 Fed. 531, 533, 50 C. C. A. 334; *Merrimac Mattress Mfg. Co.* v. *Schlesinger*, C. C., 124 Fed. 237, 239; *Caldwell* v. *Powell*, 3d C. C. A., 73 Fed. 488, 19 C. C. A. 592, 77 O. G. 1272; *Higgin Mfg. Co.* v. *Scherer*, 6th C. C. A., 100 Fed. 459, 462, 40 C. C. A. 491; *Beer* v. *Walbridge*, 2d C. C. A., 100 Fed. 465, 467, 40 C. C. A. 496; *A. R. Milner Seating Co.* v. *Yesbera*, 6th C. C. A., 111 Fed. 386, 388, 49 C. C. A. 397; *Standard Oil Co.* v. *Southern Pacific Co. et al.*, C. C., 42 Fed. 295, 297, 53 O. G. 1259; *Star Ball Retainer Co.* v. *Klahn*, C. C., 145 Fed. 834; *Mead Morrison Mfg. Co.* v. *Exeter Machine Works*, D. C., 196 Fed. 789, 790; *Drainage Construction Co.* v. *Englewood Sewer Co.*, 67 Fed. 141, 142.)

In *A. R. Milner Seating Co. v. Yesbera* (111 Fed. 386, at p. 388, 49 C. C. A. at p. 399), speaking for the Circuit Court of Appeals for the Sixth Circuit, Judge Severens said:

> It is undoubtedly established law that the court may, in a clear case, dismiss, upon demurrer, a bill filed to establish a patent and to enforce a remedy for its infringement. (*Richards* v. *Elevator Co.*, 158 U. S. 299, 15 Sup. Ct. 831, 39 L. Ed. 991, 71 O. G. 1456.) But this court has on former occasions in substance said that this ought only to be done when there is no room for thinking that any evidence could be adduced which would, if put into the case, alter the clear conviction of the court that there is no patentable invention in the production patented.

Judge Coxe, in *Covert* v. *Travers Bros. Co.* (C. C., 70 Fed. 788, 75 O. G. 349), said:

> That a patent, manifestly invalid upon its face, may be so declared on demurrer is now settled beyond dispute. • • • It is also true that this power should be exercised with the utmost caution and only in the plainest cases. If there is doubt it should be resolved in favor of the patent.

Judge Putnam, in *Indurated Fibre Industries Co.* v. *Grace* (C. C., 52 Fed. 124, at p. 128, 60 O. G. 896), called attention to the fact that the expressions in *Brown* v. *Piper* (91 U. S. 37, 23 L. Ed. 200), often cited to sustain the practice of demurring or moving to dismiss complaints in patent cases were used in a case in which there was a complaint, an answer, and proofs, so that in that case the complainant had had full opportunity to prove his invention and the validity of his patent. And Judge Shipman, in *Blessing et al.* v. *Trageser Steam Copper Works* (C. C., 34 Fed. 753), called attention to the fact that in an action at law on a patent, where the question whether the improvement required inventive skill for its production exists, it is a question of fact for the jury, and said:

> In almost all cases the nature of the subject demands that the triers should be instructed by the testimony of those skilled in the art to which the patent relates, and therefore a demurrer for nonpatentability apparent upon the face of the instrument should not ordinarily be allowed. (*Teese* v. *Phelps*, 1 McAll. 17.) To decide, in advance of an opportunity to give evidence, that no evidence can possibly be given upon the question of invention which would permit the case to be submitted to the jury, seems to me to be ill-advised, except in an unusual case.

The question in this case, therefore, is whether it is clear, beyond all reasonable doubt, from the complaint, the patents, and the common knowledge of the art, of which the court may lawfully take cognizance, that no testimony or evidence could be produced that might convince that any of the combinations claimed and patented to the plaintiff rose to the dignity of an invention.

[3] A new combination of old elements, whereby an old result is obtained in a more facile, economical, and efficient way, or whereby a new and useful result is secured, may be protected by patent as securely as a new machine or a new composition of matter. (*Gould* v. *Rees*, 15 Wall. 187, 189, 21 L. Ed. 39; *Diamond Rubber Co.* v. *Consolidated Rubber Tire Co.*, 220 U. S. 428, 443, 31 Sup. Ct. 444, 55 L. Ed. 527, 166 O. G. 251; *Leeds & Catlin Co.* v. *Victor Talking Machine Co.*, 213 U. S. 301, 318, 29 Sup. Ct. 495, 53 L. Ed. 805, 144 O. G. 1089; *National Hollow Brake-Beam Co.* v. *Interchangeable Brake-Beam Co.*, 106 Fed. 693, 707, 45 C. C. A. 544; *Seymour* v. *Osborne*, 11 Wall. 516, 542, 545, 20 L. Ed. 33; *Wm. F. Goessling Box Co.* v. *Gumb*, 241 Fed. 674, 679, 154 C. C. A. 432, 243 O. G. 241; *Sodemann Heat & Power Co.* v. *Kauffman*, C. C. A., 275 Fed. 593, 596; *New York Scaffolding Co.* v. *Whitney*, 224 Fed. 452, 457, 458, 140 C. C. A. 138.)

[4] A new combination of old elements, in which, by a different location of one or more of the elements, a new and useful result is attained, or an old result is produced in a better way, is patentable. (*Sanders* v. *Hancock*, 128 Fed. 424, 63 C. C. A. 166; *Star Brass Works* v. *General Electric Co.*, 111 Fed. 398, 49 C. C. A. 409; *Dowagiac Mfg. Co.* v. *Superior Drill Co.*, 115 Fed. 886, 53 C. C. A. 36; *New York Scaffolding Co.* v. *Whitney*, 224 Fed. 452, 458, 140 C. C. A. 138.) Some of the combinations claimed and patented in this case appear from the present record to have been new combinations of old mechanical elements, whereby the desired result was obtained in an easier, more economical, more efficient, and less dangerous way.

[5] When the advance in an art toward the thing desired is gradual, and several inventors form different combinations, which accomplish the result sought with varying degrees of success, each is entitled to his own combination, as long as it differs from those of his competitors and does not include theirs. (*Ottumwa Box Car Loader Co.* v. *Christy Box Car Loader Co.*, 215 Fed. 363, 369, 131 C. C. A. 504, 209 O. G. 683; *Railway Co.* v. *Sayles*, 97 U. S. 554, 556, 24 L. Ed. 1053, 16 O. G., 243; *McCormick* v. *Talcott et al.*, 20 How. 402, 405, 15 L. Ed. 930; *New York Scaffolding Co.* v. *Whitney*, 224 Fed. 452, 457, 458, 140 C. C. A. 138.) The advance in the art here under consideration appears, from the complaint, the petition, and our present knowledge of it, to have been gradual, and several competitors seem to have formed different combinations which reached the desideratum with varying degrees of operating success.

[6] The principle or mode of operation of the plaintiff's combination which has been described here, by the use of which a plurality of light posts, each composed of two members set in the relation specified, fastened together by a readily-releasable connection, and strengthened by sway braces, so as to support the arch until completed, and then by selective releases of the members of the posts from their fixed connections, so that they could and would, by slowly buckling, cause the completed arch to settle under constant and complete control of the operator, slowly, safely, and gradually into its permanent position, differed radically from the principles and modes of operation of upholding the arch by heavy timbers standing on wedges, or on sand in boxes, and settling it by driving out the wedges, or drawing out the sand, and this principle or mode of operation of the plaintiff's combination, and this combination itself, clearly appear from the allegations of the complaint, the patents in suit, and our present knowledge of the art to have been novel and useful, when the plaintiff conceived and reduced them to operative use, and when the defendant selected and used them.

If they had not been more useful than other combinations, it is not probable that the defendant would have chosen and used them to construct its bridge. This is a suit in equity between two private parties. The defendant used the plaintiff's patented combinations, when it was free to use others. Those combinations were protected by patents, and on the present state of the record the defendant certainly has no equity here superior to that of the plaintiff.

The construction of arches of stone, brick, and other like material was progressing for many years before the plaintiff conceived and applied to practical use the principles and combinations of his patents, but the skill of the mechanic never discovered or used either of them. The official experts of the Patent Office considered and adjudged that his conception and successful application of that principle and those combinations to the construction of the arches of bridges constituted invention, and in view of the established rules of law and equity, to

which reference has been made, and of the present record, the court is unable and unwilling to adopt the conclusion that there is no reasonable doubt that no evidence could be presented, or that no state of facts exists, or could be proved, that would convince that any of the patented combinations of the claims in suit evidenced invention or was patentable.

In view of this conclusion, this is not the time for the discussion or adjudication of the respective combinations of the various claims of the patent in suit, and they are left for consideration after answer and plenary proof.

Let the decree below be reversed, and let this case be remanded to the district court, with directions to permit the defendant to answer.

Judge CARLAND participated in the consideration and concurred in the decision of this case, but died before the opinion was submitted to him.

ADJUDICATED PATENTS.

(C. C. A. N. J.) The Boyce patent, No. 1,090,176, for indicating device for radiators of internal-combustion engines, *Held* valid and infringed. *Pyrene Mfg. Co.* v. *Boyce*, 292 Fed. Rep., 480.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

882,517, Dwight & Lloyd, Process of treating ores; 1,020,345, same, Metalliferous ore product; Re. 13,758, F. D. Weeks, Calcining, desulfurizing, agglomerating, and sintering ores and like materials; 1,102,982, A. S. Dwight, Apparatus for roasting and sintering ores; 1,254,316, same, Process of treating ores; 1,433,349, same, Process of and apparatus for treating ores to sinter them; 1,433,350, same, Ore desulfurizing and sintering apparatus; 1,433,351, same, Process of treating ores to sinter them; 1,433,352, same, Apparatus for treating ores to sinter them, suit filed Oct. 23, 1923, D. C., S. D. N. Y., Doc. E 27/245, *Dwight & Lloyd Sintering Co.* v. *Greenwalt & Witherbee et al.*

904,222. (See 1,225,852.)

933,263. (See 1,225,852.)

1,020,345. (See 882,517.)

1,063,422, 1,270,712, E. W. Dunn, Orchard heater, suit filed Dec. 8, 1921, D. C., S. D. Calif., Doc. 1058 Civ., now E 118-G, *E. W. Dunn* v. *Leffingwell Rancho Co.*

1,102,982. (See 882,517.)

1,104,065. (See 1,225,852.)

1,104,073. (See 1,225,852.)

1,137,714. (See 1,225,852.)

1,225,852, G. W. Pickard, Rectifiers; 904,222, same, Oscillation-detecting means for receiving intelligence communicated by electric waves; 933,263, same, Oscillation device; 1,104,073, same, Detectors for wireless telegraphy and telephony; 1,137,714, same, Solid rectifier for feeble electric currents; Re. 13,798, same, Means for receiving intelligence communicated by electrical waves; 1,104,065, B. J. Miessner, Detector for wireless apparatus, suit filed July 18, 1923, D. C., S. D. N. Y., Doc. E 27/31, *Wireless Specialty Apparatus Co.* v. *F. W. Woolworth Co.*

1,229,102, B. E. Lloyd, Talking doll, interlocutory decree for plaintiff sustaining patent, adjudging infringement, and granting injunction Oct. 29, 1923, D. C., S. D. N. Y., *B. E. Lloyd et al.* v. *L. Steinfeld et al.*

1,254,316. (See 882,517.)

1,270,712. (See 1,063,422.)

1,433,349. (See 882,517.)

1,433,350. (See 882,517.)

1,433,351. (See 882,517.)

1,433,352. (See 882,517.)

1,443,585, Mitchel & Lechleitner, Pin wheels, suit filed May 10, 1923, D. C., N. D. Ohio (E. D.), Doc. 900, *Bastian Bros. Co.* v. *The Louisville Machine Mfg. Co.*

Des. 60,878, Pardee, Dewire & Suporter, Radiator cap, suit filed Sept. 12, 1923, D. C., Utah, Doc. 7751, *Miller & Pardee, Inc.* v. *Barry, Macbeth Sales Corp.* Same, suit filed Sept. 21, 1923, D. C., Utah, Doc. 7778, *Miller & Pardee, Inc.*, v. *Climax Automatic Cap Co.*

Des. 62,175, L. W. Rice, Bowl or the like, suit filed May 17, 1923, D. C., E. D. N. Y., Doc. 1261, *B. Rices Sons, Inc.*, v. *White Metal Rolling & Stamping Corp.* Final decree entered on consent, dismissing complaint Sept. 11, 1923.

Re. 13,758. (See 882,517.)

Re. 13,798. (See 1,225,852.)

Re. 14,952, H. N. Moore, Transmission mechanism, held valid and infringed, particularly as to claim 4, and accounting having been adjusted, injunction dissolved, D. C., S. D. Calif., Doc. E 14-F, *Moore, Le Munyon & Eckhart (Tractor Train Co.)* v. *H. M. Langbein et al.*

Certifications by French Patent Office.

U. S. PATENT OFFICE, *Washington, Nov. 27, 1923.*

The following translation of a letter received by this Office from the Director of the French Patent Office is published for the information of those concerned.

THOMAS E. ROBERTSON,
Commissioner.

RÉPUBLIQUE FRANÇAISE, MINISTÈRE DU COMMERCE ET DE L'INDUSTRIE, DIRECTION DE LA PROPRIÉTÉ INDUSTRIELLE, 26bis, RUE DE PÉTROGRAD (8e).

PARIS, *le 5 Nov., 1923.*

THE COMMISSIONER OF PATENTS.

My department has for some time been the recipient of complaints emanating from inventors to the effect that the Patent Office at Washington refuses to accept official copies of French patents for the reason that the conformity with the papers originally deposited is attested only by the caption "Certified as conforming with the papers deposited."

According to the information at my disposal, the Patent Office would require that this caption be replaced by another more precise indicating that the official copy is a textual copy of the application as it was deposited.

Allow me to remind you that the official copies of the patents issued by my department and which bear the caption "Certified as conforming with the papers deposited" followed by the signature of the chief of bureau appointed for this purpose and with the plain stamp of the Ministry of Commerce affixed thereto are and must be considered as being the textual and exact reproduction of the papers (description and drawing) such as they were furnished by the inventor at the time of the filing of his application.

I would be obliged to you if you would be so kind as to take this communication into consideration in the examination of official copies of French patents when brought before the Patent Office of the United States either for the procedure of preliminary examination or for that of interferences.

Please accept, Mr. Commissioner, the assurances of my high consideration.

LE DIRECTEUR DE LA
PROPRIETE INDUSTRIELLE.

Mr. THOMAS E. ROBERTSON, Commissioner of the Patent Office at Washington (U. S. A.).

TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 18, 1923.

[VOL. 317. No. 3.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 116,694. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. T. QUINLAN & COMPANY, St. Paul, Minn. Filed Mar. 18, 1919.



The words "Old Faithful" are printed in red and the accompanying picture in natural colors.

Particular description of goods.—Canned Goods, Stuffed Olives, Asparagus, Asparagus Tips, Lima Beans, Royal Anne Cherries, Wax Stringless Beans, Green Stringless Beans, Prunes, Coffee, Hominy, Peaches, Sliced Lemon Cling Peaches, Lemon Cling Peaches, June Peas, Green Gage Plums, Blackberries, Loganberries, Blueberries, Apricots, Pumpkin, Early June Peas, Grated Pineapple, Grated Hawaiian Pineapple, Sliced Peaches, Tomatoes, Red Raspberries, Egg Plum, Sliced Pineapple, Evaporated Milk, Pork and Beans, Fancy Corn, Red Kidney Beans, Bartlett Pears, Sweet Potatoes, Spinach, Sauerkraut, Yellow Free Peaches, White Grapes, Strawberries, Succotash, Olive Oil, Peanut Butter, Honey, Olives, Powdered Sugar, Fruit Preserves, and Beets.

Claims use since on or about Aug. 1, 1910.

Ser. No. 143,666. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCHRAMM-JOHNSON, DRUGS, Salt Lake City, Utah. Filed Feb. 16, 1921.

HILLROSE

Particular description of goods.—Hair Dressing, Bath Salts; Almond-Meal Cream, a Cream for Use for Extreme Perspiration; Salve and Tint for Tinting the Lips, Cheeks, and Finger Nails; Prepared Henna, Hair Tonic, Vanishing Cream, Bandoline, Liquid Nail Enamel, and Eau de Quinine.

Claims use since 1906.

Ser. No. 147,020. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE FLEISCHMANN COMPANY, Cincinnati, Ohio, and New York, N. Y. Filed Apr. 30, 1921.



The trade-mark consists of the characteristic design shown in the drawing irrespective of the particular color in which this design is printed, and although blue is the color in which the characteristic trade-mark is ordinarily printed the lines shown in the drawing are not intended to indicate any particular color.

Particular description of goods.—Yeast Which is Used in the Making of Bread and Breadstuffs.

Claims use since Apr. 10, 1920.

Ser. No. 148,094. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WYTHE D. SIMS, Birmingham, Ala. Filed May 23, 1921.



Trade-mark consists essentially in the words "Red Seal" accompanied by the figure of a seal displayed on a yellow background.

Particular description of goods.—Hair Dressings for the Treatment of the Hair and Scalp.

Claims use since May 20, 1923.

Ser. No. 149,139. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) GEORGE JONES & SONS, LIMITED, Stoke-upon-Trent, England. Filed June 14, 1921.

CRESCENT
& SONS
ENGLAND

The word "England" is disclaimed apart from the mark shown.

Particular description of goods.—Dinner, Tea, and Table China and Earthenware.

Claims use since Jan. 1, 1878.

Ser. No. 149,508. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE INDIAN RIVER PRODUCTS COMPANY, Vero, Fla. Filed June 22, 1921.



No claim is made to the words "From the Heart of the Indian River Section, The Indian River Products Co., Vero, Fla." apart from the mark shown.

Particular description of goods.—Fresh Grapefruit, Oranges, King Oranges, Tangerines, Tomatoes, Potatoes, Peppers, and Beans.

Claims use since Nov. 2, 1920.

Ser. No. 151,996. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE Q & C COMPANY, New York, N. Y. Filed Aug. 20, 1921.

Q & C

Particular description of goods.—Railway Equipment, Including Rail Joints, Step Joints, Guard-Rail Clamps, Guard-Rail Braces, Track-Rail Braces, Derails or Car and Engine Derailing Devices, Car and Engine Replacers, Skid Shoes, and Track Skates.

Claims use since Jan. 1, 1891.

Ser. No. 153,764. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. L. MILLIGAN, doing business as Chemical Products Co., Atlanta, Ga. Filed Oct. 5, 1921.

TERROR

Particular description of goods.—Rat and Mice Poison and Insecticide.

Claims use since March, 1921.

Ser. No. 158,205. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WISCONSIN MACARONI COMPANY, Chicago, Ill. Filed Jan. 20, 1922.

KENO-KUTS

Particular description of goods.—Macaroni.

Claims use since on or about July 1, 1918.

Ser. No. 163,473. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUPPLEE-WILLS-JONES MILK COMPANY, Philadelphia, Pa. Filed May 6, 1922.

S

Particular description of goods.—Raw Milk, Pasteurized Milk, Certified Milk, Raw Cream, Pasteurized Cream, Certified Cream, Buttermilk, Ice Cream and Ices, and Cottage Cheese.

Claims use since 1911.

Ser. No. 165,747. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE COLUMBUS CHEMICAL COMPANY, Columbus, Ohio. Filed June 20, 1922.

RED + CROSS

Particular description of goods.—Headache and Neuralgia Powders.

Claims use since April, 1904.

Ser. No. 165,763. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCHADT BROTHERS, Allentown, Pa. Filed June 20, 1922.

ESBEE

The lining on the drawing merely representing shading.

Particular description of goods.—Foot Powder, Stomach Regulator, Liquid Corn Remover, Pink Liver Pills, Headache Tablets, Cough Sirup, and Kidney Pills, Cold Cream, Acid Acetylsalicylic Tablets, Liquid Mouth Wash, Colic and Diarrhea Remedy, Catarrh Cream, Pile Ointment and Suppositories, Iron Tonic Tablets, Liquid Body Deodorant, Liquid Cuticle Softener, Corn Plasters, Liniment, Bay Rum, Almond Lotion, Antiseptic Powder for Medicinal Purposes, Liquid Bug Poison, Water Glass, and Tonic Regulator for Cattle and Poultry.

Claims use since May 3, 1922.

Ser. No. 165,914. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAIME FERRAN CLUA, Barcelona, Spain. Filed June 23, 1922.

ANTI-ALFA

Particular description of goods.—Preparations for Use as Specific Medicinal Preparations for the Following Ills,: Infectious Diseases, Diseases of the Intestines of an Inflammatory Character, Tuberculosis and Consumption, and Also for the Treatment of a Morbid Condition and of Wide General Application in Prophylaxis and Therapeutics.

Claims use since May, 1920.

Ser. No. 166,285. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) BERNARD W. COWEN CORP., New York, N. Y. Filed June 30, 1922.

NEWCO

Particular description of goods.—Packages or Outfits Containing Materials for Making Lamp Shades, Night Lights, Telephone Screens, and Novelty Baskets, Such as Waste Baskets, Work Baskets, and Sewing Baskets.

Claims use since June 19, 1922.

Ser. No. 166,286. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) BERNARD W. COWEN CORP., New York, N. Y. Filed June 30, 1922.

NEWCO
ART



Particular description of goods.—Packages or Outfits Containing Materials for Making Lamp Shades, Night Lights, Telephone Screens, and Novelty Baskets, Such as Waste Baskets, Work Baskets, and Sewing Baskets.

Claims use since June 19, 1922.

Ser. No. 166,336. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE PHOTOPLATING COMPANY, Minneapolis, Minn. Filed July 6, 1922.

PHOTOPLATED

Particular description of goods.—Designs and Photographs on Glass and Metal.
Claims use since about July 1, 1917.

Ser. No. 166,537. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAM-TÉ MFG. CO., Oklahoma, Okla. Filed July 13, 1922.

Lam-Té

Particular description of goods.—Cosmetics—Namely, Astringents, Shaving Lotion, Liquid Face Powder, Cleansing Lotion, Rouge, Tissue Cream, Cold Cream, Lip Stick, Hand Lotion, Hair Tonic, Perfume, Toilet Water, and Incense.
Claims use since May 2, 1921.

Ser. No. 166,571. (CLASS 39. CLOTHING.) BAKER-LOCKWOOD MFG. CO. INC., Kansas City, Mo. Filed July 14, 1922.

Armgins

Particular description of goods.—Sleeve Protectors.
Claims use since Apr. 19, 1922.

Ser. No. 166,592. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MEMPHIS DRUG COMPANY, INC., Memphis, Tenn. Filed July 14, 1922.

Tentacion
PERPETUEL PARFUM

No exclusive rights are claimed in the words "Perpetuel Parfum" apart from the mark shown in the drawing; but applicant waives none of its common-law rights in said mark or any element thereof.
Particular description of goods.—Perfumes, Toilet Water, Face Powder, Face Cream, Rouge, and Lip Stick.
Claims use since Jan. 1, 1916.

Ser. No. 167,501. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) SOCIÉTÉ ANONYME D'OUGRÉE MARIHAYE, Ougree, near Liege, Belgium. Filed July 27, 1922.

S·O·M

Particular description of goods.—Hammered and Rolled Steel.
Claims use since Sept. 13, 1919.

Ser. No. 167,502. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) SOCIÉTÉ ANONYME D'OUGRÉE MARIHAYE, Ougree, near Liege, Belgium. Filed July 27, 1922.

·OUGRÉE·S·O·M·

Particular description of goods.—Steel Rails.
Claims use since June 16, 1921.

Ser. No. 167,672. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN G. COUSAR and JOHN G. BARRON, Fort Lawn, S. C. Filed Aug. 1, 1922.

PICK--EM--UP

Particular description of goods.—Mechanical Insect Exterminators.
Claims use since about June, 1921.

Ser. No. 167,770. (CLASS 32. FURNITURE AND UPHOLSTERY.) ENTERPRISE BED COMPANY, Hammond, Ind. Filed Aug. 3, 1922.

Davenglide

Particular description of goods.—Swinging Couches or Davenports.
Claims use since Apr. 1, 1922.

Ser. No. 167,925. (CLASS 12. CONSTRUCTION MATERIALS.) ALFRED JOHN ROWLEY, Toronto, Ontario, Canada. Filed Aug. 7, 1922.

LOXEL

Particular description of goods.—Concrete Tiles and Molds.
Claims use since Apr. 30, 1922

Ser. No. 168,191. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) AMERICAN SYRUP COMPANY, INC., Boston, Mass. Filed Aug. 14, 1922.

PHROSTO

"Phrosto."
Particular description of goods.—Nonalcoholic, Malt-less Beverages Sold as Soft Drinks and Sirups, Extracts, Emulsions, and Pastes for Making the Same.
Claims use since Dec. 5, 1921.

Ser. No. 168,452. (CLASS 39. CLOTHING.) M. H. COWEN MANUFACTURING COMPANY, Chicago, Ill. Filed Aug. 19, 1922.

Roomy Richard

Particular description of goods.—Workingmen's Shirts.
Claims use since July, 1922.

Ser. No. 168,648. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEA COAST PACKING CO., Seattle, Wash. Filed Aug. 24, 1922.

DIXIE'S BEST

Particular description of goods.—Canned Salmon.
Claims use since May 22, 1922.

Ser. No. 168,936. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE NORTH AMERICAN RADIO & SUPPLY CORPORATION, New York, N. Y. Filed Aug. 31, 1922.

THE NORTH AMERICAN RADIO & SUPPLY CORPORATION
ALASKA
CANADA
UNITED STATES
MEXICO
NEW YORK

No claim is made to the words "New York," "Alaska," "Canada," "United States," and "Mexico" apart from the mark as shown in the drawing.
Particular description of goods.—Radio Receiving and Transmitting Instruments and Parts Thereof.
Claims use since June 21, 1922.

Ser. No. 169,157. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFREDO GIMENEZ Y MORENO, Bayamon, Porto Rico. Filed Sept. 6, 1922.

PNEUMO TONIC
O
TONICO PULMONAR
DEL LCDO. ALFREDO GIMENEZ Y MORENO.

The portrait is that of applicant. No claim is made to the words "Pneumo Tonic, Tonico Pulmonar" apart from the mark as shown in the drawing.
Particular description of goods.—Medicine for Treatment of Tuberculosis.
Claims use since Aug. 26, 1922.

Ser. No. 169,314. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MILLIKEN, TOMLINSON CO., Portland, Me. Filed Sept. 11, 1922.

SUPERBA

Particular description of goods.—Coffee, Tea, Chocolate, Cocoa, Molasses, Tomato Catchup, Pickles, Breakfast Cereals, Condiments, and Cheese.
Claims use since 1901.

Ser. No. 169,898. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH FORCIER, doing business as Joseph Forcier & Co., New Bedford, Mass. Filed Sept. 25, 1922.

SPORTSMAN'S OINTMENT

No claim is made to the word "Ointment" apart from that shown in the accompanying drawing.

Particular description of goods.—Ointment for Piles, Corns, Bunions, Calli, Chafing, Scalds, Burns, Chapped Hands, Chapped Lips, Ringworms, and Chilblains.

Claims use since 1910.

Ser. No. 170,547. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) ROSENTHAL-PORZELLANFABRIK VORM. JAC. ZEIDLER & Co., Bahnhof Selb, Germany. Filed Oct. 10, 1922.



The mark consists of the word "Rosenthal" written in current letters, two roses being placed above the word with their stalks intercrossed, a crown being shown above and between said roses.

Particular description of goods.—China.

Claims use since Sept. 15, 1919.

Ser. No. 170,937. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH LA COLLA, doing business as La Colla, Brooklyn, N. Y. Filed Oct. 19, 1922.

BROADWAY ROSE

Particular description of goods.—Face Creams, Perfumes, Toilet Waters, Rouges, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Sachet Powders, and Deodorizing Preparations.

Claims use since November, 1920.

Ser. No. 170,970. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DEANE PLASTER CO., Yonkers, N. Y. Filed Oct. 20, 1922. Under ten-year proviso.



Particular description of goods.—Medicated and Surgical Plasters—viz, Belladonna, Capsicum, Blister (Cantharides), Brenst, Cough, Menthol, Mercurial, Porous, Mustard, Oxide of Zinc, Arnica, Plain Court Plasters, Corn Plasters, Foot Plasters, Kidney Plasters; and Medicated Adhesive Tape.

Claims use since 1886.

Ser. No. 171,133. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LEO J. MARSHUETZ, doing business as Marshuetz & Company, Montgomery, Ala. Filed Oct. 24, 1922.

BUILDERS

Particular description of goods.—Cotton Cloth in the Piece.

Claims use since Mar. 24, 1921.

Ser. No. 172,026. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE ATLAS BEDSTEAD COMPANY (STEPHEN WILKES & SONS) LIMITED, Bilston, England. Filed Nov. 15, 1922.

ATLAS

Particular description of goods.—Corner Fittings for Bedsteads, Cots, Ships' Berths, and the Like.

Claims use since December, 1884.

Ser. No. 172,067. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLEMENS LAGEMAN, doing business as H. Trommsdorff, Aix-La-Chapelle, Germany. Filed Nov. 15, 1922.

Sozojodol

Particular description of goods.—Medical Compounds and Pharmaceutical Compounds in the Form of Ointments, Powders, Solutions, Tablets, Pessaries, Suppositories, Sticks, Suspensions, and Mixtures for the Treatment of Men's and Animals' Diseases, Especially for Skin and Genital Diseases, Ulcers, Burns, Wounds, and Inflammations, Particularly of the Mucous Membrane of the Nose, Throat, Eyes, and Ears; Diseases of Women, and for Chemicals—Namely, Acidum, Aluminium, Bismuthum, Chininum, Hydrargyrum, Lithium, Magnesium, Potassium, Sodium, and Zincum Compounds.

Claims use since Oct. 1, 1887.

Ser. No. 172,209. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) CALHOUN, ROBBINS & Co., New York, N. Y. Filed Nov. 18, 1922.



Particular description of goods.—Tassels and Fringes Used as Dress Trimmings, Elastic Belting, Elastic Cord, Elastic Webbing, Ready-Made Buttonholes by the Yard,

Shaped Belting and Banding, Dress Banding Used for the Reenforcement of Garments, Button Fasteners and Buttonhooks Not of Precious Metal; Button-Sewing Kits Consisting of Needle, Thread, and Button Combinations in the Nature of Repair Kits; Corset Laces, Shoe Laces, Pump Bows, Collar Buttoners, Buttons and Buckles Not of Precious Metal, Hair Curlers, Hair-Curling Irons, Dress Shields, Dress-Shield Pins, Dress Weights, Pincushions, Glove Stretchers, Wire Hairpins, Needle Books, Ribbon Pins, Dressmaker Pins, Bank Pins, T Pins, Safety Pins, Fans, Sleeve Protectors, Stocking and Glove Darners, Wood Towel Rings, Corset Steels, Corset-Clasp Protectors, Bone Thread Winders, Bodkins, Crochet Hooks, Knitting Pins, Embroidery Frames, Embroidery Hoops, Metal Bells and Sequins, Metal Rings for Fancy Work, Stilettos, Hooks and Eyes, Collar Supporters, Hair Rolls and Frames, Combs, Hair Ornaments and Barrettes Not of Precious Metal.

Claims use since July 1, 1890.

Ser. No. 173,672. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHYSIO-CHEMICAL LABORATORIES, INC., Salt Lake City, Utah. Filed Dec. 21, 1922.

Salitone

Particular description of goods.—Granular Effervescing Salt Compound for the Treatment of Acidosis, Hyperacidity of the Stomach, Vomiting of Pregnancy, and All Toxemias.

Claims use since Nov. 10, 1922.

Ser. No. 174,240. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES T. GALLAGHER, doing business as Edith Frances, Miami, Fla. Filed Jan. 6, 1923.

Royal Palm

Particular description of goods.—Lemon Vanishing Cream, Foundation Cream, Lemon Emollient, Cold and Cleansing Cream, Lemon Cream.

Claims use since August, 1920.

Ser. No. 174,264. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SETHNESS COMPANY, Chicago, Ill. Filed Jan. 6, 1923.

"Eatmor"

Particular description of goods.—Sirup to be Used in Making a Chocolate Malted Ice Cream or Drink.

Claims use since Dec. 11, 1922.

Ser. No. 174,284. (CLASS 39. CLOTHING.) AUGUSTA KNITTING CORPORATION, Utica, N. Y. Filed Jan. 8, 1923.

BAND-O-VEST

No claim is made to the exclusive right to the use of the word "Vest" apart from the mark shown in the drawings.

Particular description of goods.—One-Piece Knitted Underwear Comprising Ladies' Union Suits, Ladies' Vests, and Bathing Suits.

Claims use since Dec. 22, 1922.

Ser. No. 174,395. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HURST-BOILLIN CO., Clarksville, Tenn. Filed Jan. 10, 1923.

Pinto

Particular description of goods.—Patent Winter-Wheat Flour.

Claims use since January, 1918.

Ser. No. 174,497. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) UNITED SANITARY PRODUCTS COMPANY INC., New York, N. Y. Filed Jan. 11, 1923.

SMOOTH O FOAM

Particular description of goods.—Liquid Soap.

Claims use since about Sept. 15, 1922.

Ser. No. 174,635. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PHENO-LYPTOL CO., Toyah, Tex. Filed Jan. 15, 1923.

Pheno-Lyptol

Particular description of goods.—Ointment for the Treatment of Catarrh, Colds, Rheumatism, Burns, Insect Bites, Piles, Croup, Sprains, Bruises, Inflammations, Chapped Hands, Sore Lips, Headache, Corns, and Frostbites.

Claims use since Mar. 1, 1910.

Ser. No. 174,710. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. TRAUB'S SONS, Savannah, Ga. Filed Jan. 17, 1923.

PLEE-ZING BRAND

No claim is made to the word "Brand" except as shown on the drawing in connection with the mark applied for.
Particular description of goods.—Canned Tomatoes.
Claims use since December, 1922.

Ser. No. 174,967. (CLASS 39. CLOTHING.) LOS ANGELES KNITTING COMPANY, Los Angeles, Calif. Filed Jan. 23, 1923.

LOS ANGELES Nattiknit KNITTING COMPANY

Particular description of goods.—Sweater Coats, Jerseys, Bathing Suits, and Scarfs.
Claims use since Nov. 15, 1920.

Ser. No. 174,968. (CLASS 39. CLOTHING.) LOS ANGELES KNITTING COMPANY, Los Angeles, Calif. Filed Jan. 23, 1923.

Nattiknit

Particular description of goods.—Sweater Coats, Jerseys, Bathing Suits, Tam-O'-Shanters for Women and Children, and Scarfs.
Claims use since Nov. 15, 1920.

Ser. No. 175,231. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM ANDREWS, Niagara Falls, N. Y. Filed Jan. 29, 1923.

WM. ANDREW'S



The picture forming part of mark is a portrait of applicant.
Particular description of goods.—Ointment for the Treatment of Eczema and Other Skin Diseases.
Claims use since about Jan. 18, 1923.

Ser. No. 175,376. (CLASS 39. CLOTHING.) THE B R BAKER CO., Toledo, Ohio. Filed Feb. 1, 1923.

KING O'KNIT The B R Baker Co TOLEDO - CLEVELAND

No claim is made to the words "Toledo" and "Cleveland" in said application apart from the mark shown on the drawing.
Particular description of goods.—Knitted Sweaters and Vests.
Claims use since not less than one year from Jan. 28, 1922.

Ser. No. 175,418. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WICKS PHARMACAL CO., Sparrows Point, Md. Filed Feb. 1, 1923.

WICKS' ALL AROUND RELIEF SALVE

The phrase "All Around Relief Salve" appearing on the drawing of trade-mark is hereby disclaimed apart from the mark shown. The name written across the pictorial representation of part of the earth is a facsimile of the signature of one of the members of the applicant company.
Particular description of goods.—Healing Salve.
Claims use since Dec. 2, 1922.

Ser. No. 176,101. (CLASS 45. BEVERAGES, NONALCOHOLIC.) SAMUEL SELTZER, doing business as Seltzer & Rydholm, Inc., Auburn, Me. Filed Feb. 15, 1923.

DRINK Cuban

The word "Drink" is disclaimed apart from the mark shown. The lines shown on the drawing are for red.
Particular description of goods.—Nonalcoholic, Maltless Beverages Sold as Soft Drinks.
Claims use since Mar. 16, 1922.

Ser. No. 176,481. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARY ANN KIMBLE, New Orleans, La. Filed Feb. 23, 1923.

KIMBLE'S NEW LIFE STRENGTH AND AGILITY

Applicant disclaims the words "Strength and Agility" appearing in the trade-mark shown on the accompanying drawing.
Particular description of goods.—Medicated Health Tonic Used in the Treatment of Kidney Diseases and Weakness of the Bladder and for Its Soothing Effect in Urinary Disorders.
Claims use since Jan. 27, 1923.

Ser. No. 176,602. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHEMICAL TREATMENT COMPANY, New York, N. Y. Filed Feb. 26, 1923.

SULFEX

Particular description of goods.—Chemicals for the Removal of Sulphur and Other Impurities from Molten Iron and Other Metals.
Claims use since Feb. 25, 1922.

Ser. No. 177,005. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KEYSTONE LABORATORIES, Roaring Springs, Pa. Filed Mar. 5, 1923.

Puro "IT PURIFIES"

No claim is made to the words "It Purifies" apart from the mark shown by the drawing.
Particular description of goods.—Germicides and Disinfectants.
Claims use since Dec. 20, 1922.

Ser. No. 177,166. (CLASS 38. PRINTS AND PUBLICATIONS.) COMPO BOND CORPORATION, New York, N. Y. Filed Mar. 9, 1923.

The FORTUNE FOUNDATION

Particular description of goods.—House Organ Issued at Indefinite Periods.
Claims use since Mar. 7, 1923.

Ser. No. 177,385. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KELL MILLING COMPANY, Vernon, Tex. Filed Mar. 13, 1923.



Particular description of goods.—Hard-Wheat Flour.
Claims use since Dec. 1, 1922.

Ser. No. 177,662. (CLASS 39. CLOTHING.) FERGUSON, WEINBERG & ROSE, Chicago, Ill. Filed Mar. 19, 1923.



The word "Frocks" appearing in the drawing is disclaimed apart from the mark as shown.

Particular description of goods.—Ready-Made Women's Apparel—Namely, Suits, Dresses, and Skirts.

Claims use since Mar. 1, 1923.

Ser. No. 177,789. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) LOCKE REGULATOR CO., Salem, Mass. Filed Mar. 21, 1923. Under ten-year proviso.

BEATS ALL

"Beats All."

Particular description of goods.—Pressure-Reducing Valves and Pump Governors.

Claims use since 1892.

Ser. No. 177,869. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAN FRANCISCO SULPHUR CO., San Francisco, Calif. Filed Mar. 22, 1923.



Particular description of goods.—Sulphur.

Claims use since about 1903.

Ser. No. 177,870. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAN FRANCISCO SULPHUR CO., San Francisco, Calif. Filed Mar. 22, 1923.



Particular description of goods.—Sulphur.

Claims use since June 4, 1901.

Ser. No. 177,873. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAN FRANCISCO SULPHUR CO., San Francisco, Calif. Filed Mar. 22, 1923.



Particular description of goods.—Sulphur.

Claims use since about November, 1915.

Ser. No. 177,888. (CLASS 39. CLOTHING.) JOSEPH ZUKIN, Los Angeles, Calif. Filed Mar. 22, 1923.



The mark is a facsimile signature of June Rand.

Particular description of goods.—Aprons, House and Street Dresses, and Sport and Street Frocks.

Claims use since Mar. 1, 1923.

Ser. No. 177,933. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VOSS & STERN, New York, N. Y. Filed Mar. 23, 1923.

CREPE IDEAL

No claim made to the word "Crepe" apart from the mark shown in the drawing.

Particular description of goods.—Silk Piece Goods.

Claims use since Sept. 28, 1921.

Ser. No. 177,938. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VOSS & STERN, New York, N. Y. Filed Mar. 23, 1923.

POLKATEX

Particular description of goods.—Silk and Cotton Mixture Goods and Cotton Piece Goods.

Claims use since Aug. 17, 1922.

Ser. No. 178,145. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE ANONYME PARFUMERIE VIOLET, Paris, France. Filed Mar. 27, 1923. Under ten-year proviso.

VIOLET

Particular description of goods.—Perfumes, Toilet Waters, Face Powders, Talcum Powders, Sachet Powders, Lotion for the Skin and Hair, Rouge, and Brilliantine.

Claims use since 1893.

Ser. No. 178,235. (CLASS 37. PAPER AND STATIONERY.) ERNEST E. DORNAUS, Oklahoma, Okla. Filed Mar. 29, 1923.



No claim made to the representation of the device apart from the mark shown in the drawing.

Particular description of goods.—Wedges Used in Connection with the Binding Posts of Loose-Leaf-Binding Devices.

Claims use since Dec. 18, 1922.

Ser. No. 178,478. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPONGETTE PURE FOOD COMPANY, INC., Pittsburgh, Pa. Filed Apr. 2, 1923.



Particular description of goods.—Confectionery, and Specifically Crumbs of Baked Bran Mixed with Crumbs of Roasted Nut Kernels Conglomerated with Candy.

Claims use since Mar. 10, 1923.

Ser. No. 178,605. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES GARLEK, doing business as 56th St. Quality Bakery, Philadelphia, Pa. Filed Apr. 5, 1923.

ROZ-O-V-Y

Particular description of goods.—Bread.

Claims use since Mar. 31, 1923.

Ser. No. 179,155. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LARKIN CO. INC., Buffalo, N. Y. Filed Apr. 14, 1923. Under ten-year proviso.

LARKIN

Particular description of goods.—Soap in Cake, Stick, Liquid, Powdered, Flake, Chip, and Paste Form; Polishes in Liquid, Paste, and Powdered Form for Leather and Metal; Naphtha Washing Compound, Scouring Paste, Scouring Powder, Glassware-Cleaning Powder, Cleaning Paste for Painted and Varnished Surfaces, Liquid Dry Cleaner, Wall-Paper Cleaner, Glove Cleaner, Liquid Shoe Dressing, Liquid Cleaner for Leather or Textile Fabrics, Lens Wash, Razor Strops, Sanitary Cleaner for Water-Closet Bowls, Shaving-Soap Paste, Chemical Cleaner for Windshields, and Electrochemical Silver Cleaner.

Claims use since 1875.

Ser. No. 179,242. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TIDEWATER CHEMICAL COMPANY, New York, N. Y. Filed Apr. 16, 1923.



Particular description of goods.—Chemicals, Colors, and Fillers—Namely, Ammonium Phosphate, Denatured Alcohol, Methyl Alcohol, Formaldehyde, Methyl Acetone, Acetic Acid, Acetate of Soda, Antimony, Antimony Oxide, Antimony Sulphuret, Crimson Antimony, Golden Antimony, Black Iron Oxide, Magnetic Oxide of Iron, Excellerex, Thiocarbanilid, Hydrated Lime, Pine Oil, Iron Oxide, Sulphur, Precipitated Sulphur, Aluminum Silicate, Zinc Sulphide, Zinc Oxide, Phenol, Nigrosene, Zinc Chloride,

Carbon Tetrachloride, Formic Acid, Muriatic Acid, Caustic Soda, Soda Ash, Sodium Sulphide, Sodium Hyposulphite, Sodium Bisulphite, Sodium Sulphate, Ammonium Fluoride, Potassium Fluoride, Sodium Fluoride, Magnesium Carbonate, Light Calcined Magnesia, Heavy Calcined Magnesia, Antimony Sulphide, Barium Carbonate, Barium Chloride, Benzol, Carbon Bisulphide, Sulphur Dioxide, Glauber Salt, Magnesium Oxide, Acetone Oil, Acetone, Sodium Silicate.

Claims use since Mar. 5, 1923.

Ser. No. 179,270. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE HEIMBACH BAKING COMPANY, Allentown, Pa. Filed Apr. 17, 1923.



No claim is made to the word "Bread" apart from the mark shown in the drawing.

Particular description of goods.—Bread.

Claims use since Sept. 15, 1922.

Ser. No. 179,784. (CLASS 39. CLOTHING.) DIEHL, KANE & DIEHL TAILORING CO., Cincinnati, Ohio. Filed Apr. 27, 1923.



The vertical lining on the shield of the drawing is for the purpose of shading only. The words "Mastercraft Tailor Made Clothes" are not claimed apart from the mark as shown on the drawing.

Particular description of goods.—Men's Outer Garments or Clothing Constituting Coats, Overcoats, Vests, and Trousers.

Claims use since Dec. 12, 1922.

Ser. No. 180,010. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHNSON & MCGRATH LABORATORY, Jefferson, Iowa. Filed May 1, 1923.

ITCH-O

Particular description of goods.—Remedy for Treating Skin Diseases and Skin Infections.

Claims use since Jan. 1, 1923.

Ser. No. 180,081. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE E. REMICK, doing business as Remlock Hills Laboratory, Denver, Colo. Filed May 2, 1923.

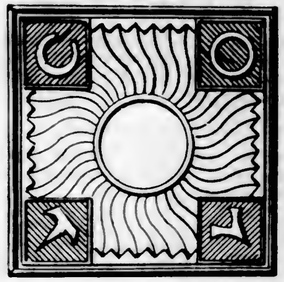
REMLOCK 100



Particular description of goods.—Asthma Treatment.

Claims use since Feb. 8, 1923.

Ser. No. 180,100. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COTY, INC., Wilmington, Del., and New York, N. Y. Filed May 3, 1923.



Particular description of goods.—Perfumes, Toilet Water, and Eau de Cologne.

Claims use since April, 1921.

Ser. No. 180,102. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COTY, INC., Wilmington, Del., and New York, N. Y. Filed May 3, 1923.



Particular description of goods.—Perfumes.

Claims use since May, 1920.

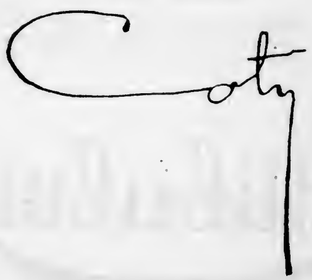
Ser. No. 180,103. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COTY, INC., Wilmington, Del., and New York, N. Y. Filed May 3, 1923.



Particular description of goods.—Perfumes, Toilet Water, Face Powder, Compact Powder, Sachet Powder, Talcum Powder, Brilliantine, Eau de Cologne, and Hair Lotion.

Claims use since April, 1910.

Ser. No. 180,106. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COTY, INC., Wilmington, Del., and New York, N. Y. Filed May 3, 1923.



The mark is a facsimile signature of applicant's predecessor in title Francoise Joseph de Spoturno Coty, and the present president of the applicant corporation.

Particular description of goods.—Toilet Soaps.

Claims use since April, 1921.

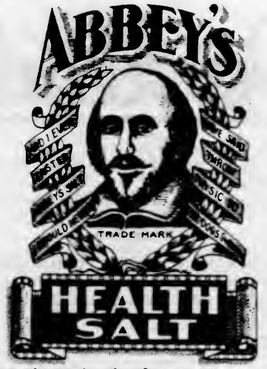
Ser. No. 180,205. (CLASS 39. CLOTHING.) HARRY BERGER, doing business as Harry Berger Shirt Company, New York, N. Y. Filed May 5, 1923.

The Bambalina

Particular description of goods.—Men's and Boys' Shirts, Collars, Pyjamas, and Dress, Negligee, and Work Shirts.

Claims use since Apr. 17, 1923.

Ser. No. 180,644. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ABBEY EFFERVESCENT SALT COMPANY, INC., New York, N. Y. Filed May 15, 1923.



The picture shown in the drawing is a representation of William Shakespeare. Disclaimer is hereby made to the words "Trade Mark" and "Health Salt" apart from the mark as shown in the drawing.

Particular description of goods.—Dry Chemical Mixture of Health Salt.

Claims use since Jan. 1, 1923.

Ser. No. 180,645. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ABBEY EFFERVESCENT SALT COMPANY, INC., New York, N. Y. Filed May 15, 1923. Under ten-year proviso.

ABBEY'S

Particular description of goods.—Dry Chemical Effervescent Salt Mixture.

Claims use since 1880.

Ser. No. 181,127. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KELL MILLING COMPANY, Vernon, Tex. Filed May 25, 1923.



Particular description of goods.—Hard-Wheat Flour.

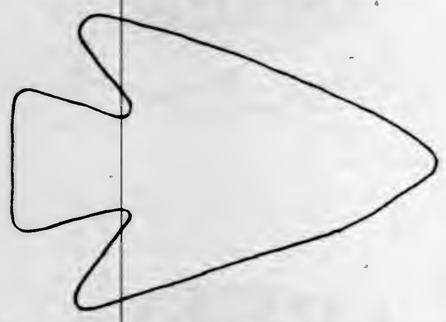
Claims use since Dec. 1, 1922.

Ser. No. 181,317. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SEWARD WIRE COMPANY, Parkersburg, W. Va. Filed May 28, 1923.

Parkerize

Particular description of goods.—Rubber-Covered Electric Wire Cables.
Claims use since June 11, 1922.

Ser. No. 181,358. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) TELULAH PETRALYKE COMPANY, Appleton, Wis. Filed May 29, 1923.



The mark consists of a representation of an arrowhead.
Particular description of goods.—Visors for Vehicles.
Claims use since July, 1920.

Ser. No. 181,377. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES C. CHAPMAN, Fullerton, Calif. Filed May 31, 1923.



The particular colors in which the component parts of the trade-mark are printed may be varied as desired, and the drawing is not intended to represent or depict particular colors or contrast of colors.
Particular description of goods.—Citrous Fruits—Namely, Oranges, Lemons, Tangerines, and Grapefruit.
Claims use since 1896.

Ser. No. 181,411. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) R. K. M. MANUFACTURING CO., Newark, N. J. Filed May 31, 1923.

YALE H&E

Particular description of goods.—Covered Hook and Eye Tapes.
Claims use since May 22, 1923.

Ser. No. 181,519. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE EKKO COMPANY, Chicago, Ill. Filed June 4, 1923.

ekko

The drawing is lined to indicate that the rectangular background is blue. However, such color is immaterial and is hereby disclaimed.
Particular description of goods.—Radio Phonograph Adapters.
Claims use since July 1, 1922.

Ser. No. 181,599. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAX S. HOECHSTETTER, Pittsburgh, Pa. Filed June 6, 1923.

Mibalm HEALS

No claim is made to the word "Heals" apart from the mark as shown.
Particular description of goods.—Toilet Lotion for Chapped Hands and Face.
Claims use since July 17, 1917.

Ser. No. 181,740. (CLASS 27. HOROLOGICAL INSTRUMENTS.) FABRIQUE D'HORLOGERIE LA GLYCINE, Bienne, Switzerland. Filed June 9, 1923.

GLYCINE

Particular description of goods.—Watches, Clocks, and Parts Thereof.
Claims use since May 28, 1914.

Ser. No. 181,765. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JESSE GUY MUNSELL, doing business as Munsell's Supply Company and Munsell's School of Health, Lincoln, Nebr. Filed June 9, 1923.

Yours for Health
J Guy Munsell

Without relinquishing any of his common-law rights thereto, applicant disclaims the exclusive right to the use of the words "Yours for Health" except as they appear in connection with the facsimile of his signature.
Particular description of goods.—Tablets Composed of Inorganic Substances Mixed with Sugar of Milk for Food Purposes Only.
Claims use since Mar. 1, 1923.

Ser. No. 181,885. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GENERAL LABORATORIES, Madison, Wis. Filed June 12, 1923.

B-K Bacilli-Kil

Without waiving any rights at common law applicant disclaims any attempt to cover in this registration the hyphenated word "Bacili-Kil" except in the precise relation and association in which this word appears in the drawing.
Particular description of goods.—Preparations Used for the Prevention and Treatment of Germ Diseases.
Claims use since Jan. 15, 1913.

Ser. No. 182,099. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) S. C. JOHNSON & SON, Racine, Wis. Filed June 16, 1923.

JOHNSON'S

Particular description of goods.—Valve-Grinding Compound.
Claims use since about 1890; on valve-grinding compound since July, 1919.

Ser. No. 182,111. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PABST CORPORATION, Milwaukee, Wis. Filed June 16, 1923. Under ten-year proviso.

PABST

Particular description of goods.—General Medicinal Tonic.
Claims use since June, 1889.

Ser. No. 182,112. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PABST CORPORATION, Milwaukee, Wis. Filed June 16, 1923. Under ten-year proviso.

The "Best" Tonic

Particular description of goods.—General Medicinal Tonic.
Claims use since June, 1889.

Ser. No. 182,165. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. W. MCCLURE, Atlanta, Ga. Filed June 18, 1923.

TEN-CENT-TERIA

Particular description of goods.—Foods—Namely, Canned, Dried, and Green Vegetables, Coffee, Tea, Sugar, and Candy.
Claims use since May 31, 1923.

Ser. No. 182,217. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELINOR V. MINETTI, San Francisco, Calif. Filed June 19, 1923.

JULINOR

Particular description of goods.—Sweets and Relishes.
Claims use since Jan. 1, 1922.

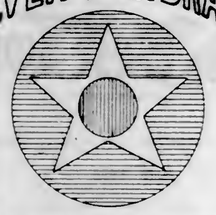
Ser. No. 182,220. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OPERA OMNIA LIMITED, London, England. Filed June 19, 1923.

OATINE

Particular description of goods.—Face Cream, Toilet Water, Shampoo Powder, Tooth Pastes, and Brilliantine.
Claims use since June 30, 1905.

Ser. No. 182,274. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TAITO TRADING COMPANY, INC., New York, N. Y. Filed June 20, 1923.

SILVER STAR BRAND



The trade-mark consists of a silver star on a circular blue field, a circular red disk in the center of the star, and the words "Silver Star Brand" above the symbol, the word "Brand," however, being disclaimed.

Particular description of goods.—Canned Crab Meat.
Claims use since about Apr. 1, 1923.

Ser. No. 182,397. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY OSCAR BROWN, doing business as H. O. Brown Company, Philadelphia, Pa. Filed June 25, 1923.



No claim is made to the words "Trade-Mark," "Pile Remedy," and "Philadelphia, Pa. U. S. A." apart from the other features of the mark shown.

Particular description of goods.—Pile Remedy.
Claims use since May 1, 1923.

Ser. No. 182,464. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARY E. BIDELMAN, doing business as Bidelman & Company, Fort Worth, Tex. Filed June 26, 1923.

Mary's SALVE

No claim is made to the word "Salve" except as associated with the given name "Mary."

Particular description of goods.—Salve for Treating Insect Bites and Stings, Prickly Heat, Scald Feet, Cuts, Burns, Piles, Surface Inflammation, and Sprains.
Claims use since Jan. 1, 1920.

Ser. No. 182,472. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARTIN HIRSH HERSKOWITZ, doing business as Martin Hershey Laboratory, Cleveland, Ohio. Filed June 26, 1923.

MARTIN HERSHEY'S REDI KAPS

Particular description of goods.—Laxative.
Claims use since November, 1918.

Ser. No. 182,621. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STUART PACKING CORPORATION, Seattle, Wash. Filed June 29, 1923.

ICY

Particular description of goods.—Canned Salmon.
Claims use since July, 1922.

Ser. No. 182,695. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALEXANDRE & EMILE, New York, N. Y. Filed July 2, 1923.

LUSTR-OIL

Particular description of goods.—Preparation for Use When Effecting a Permanent Wave in the Hair of a Human Being.
Claims use since June, 1921.

Ser. No. 182,716. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MRS. JANE NELSON, doing business as Floralea Creme Co., San Antonia, Tex. Filed July 2, 1923.

"Creme Floralea"

Particular description of goods.—Cold Cream.
Claims use since Sept. 1, 1922.

Ser. No. 182,743. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FERRIS AND COMPANY, LIMITED, Bristol, England. Filed July 3, 1923.

NIGROID

Particular description of goods.—Throat and Voice Antiseptics and Stimulants.
Claims use since November, 1901.

Ser. No. 182,802. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HECKER-JONES-JEWELL MILLING COMPANY, New York, N. Y. Filed July 5, 1923.

ZAMPA

Particular description of goods.—Wheat Flour.
Claims use since Aug. 18, 1909.

Ser. No. 182,831. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) ORA KRICHBAUM, doing business as K & W Rubber Company, Delaware, Ohio. Filed July 5, 1923.

AIROTANK

Particular description of goods.—Pneumatic Tires and Pneumatic Inner Tubes.
Claims use since June 16, 1923.

Ser. No. 182,887. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE VAN WASSON MEDICINE CO., Talladega, Ala. Filed July 6, 1923.



No claim is made to the words "The Great Tonic" apart from the mark as shown.

Particular description of goods.—Medicine for Indigestion, Dyspepsia, Flatulence, Acid Stomach, Gastritis, Loss of Appetite, Constipation, and Allied Disorders of the Stomach.
Claims use since May 21, 1923.

Ser. No. 182,942. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARIA TOMACELLI, doing business as Sig Chemical Co., New York, N. Y. Filed July 7, 1923.

SIG

Particular description of goods.—Shampoo for the Hair.
Claims use since August, 1922.

Ser. No. 183,028. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HECKER-JONES-JEWELL MILLING COMPANY, New York, N. Y. Filed July 10, 1923. Under ten-year proviso.

JONES SUPERLATIVE

Particular description of goods.—Wheat Flour.
Claims use since 1892.

Ser. No. 183,031. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HECKER-JONES-JEWELL MILLING COMPANY, New York, N. Y. Filed July 10, 1923.

VERNAL

Particular description of goods.—Wheat Flour.
Claims use since Nov. 16, 1901.

Ser. No. 183,032. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HECKER-JONES-JEWELL MILLING COMPANY, New York, N. Y. Filed July 10, 1923. Under ten-year proviso.

HONEST JOHN

Particular description of goods.—Wheat Flour.
Claims use since August, 1892.

Ser. No. 183,037. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT WHITFIELD LOGAN, Fort Smith, Ark. Filed July 10, 1923.

LOGAN'S



FORMULA 1.

The portrait shown is that of applicant, and no claim is made to the words "Formula 1" apart from the mark shown in the drawing.

Particular description of goods.—Blood Medicine for the Treatment of Syphilitic Ailments, Gonorrhea, Scrofula, Cancer, and the Like.

Claims use since 1877.

Ser. No. 183,038. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT WHITFIELD LOGAN, Fort Smith, Ark. Filed July 10, 1923.

LOGAN'S



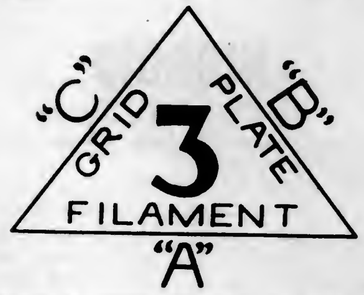
FORMULA 2.

The portrait shown in the drawing is that of applicant, and no claim is made to the words "Formula 2" apart from the mark shown in the drawing.

Particular description of goods.—Lung Medicine for the Treatment of Tuberculosis of the Lungs and Kindred Diseases.

Claims use since 1877.

Ser. No. 183,040. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed July 10, 1923.



Reserving all common-law rights, the right to the exclusive use of the words "Filament," "Plate," and "Grid" apart from the other elements of the mark is hereby disclaimed, nor is any claim made to the exclusive right to the use of the separate letters "A," "B," or "C."

Particular description of goods.—Dry Batteries.

Claims use since June 1, 1923.

Ser. No. 183,202. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DOERING MANUFACTURING COMPANY, Chicago, Ill. Filed July 14, 1923.



No claim made to the exclusive right to the use of the words "No Glare" apart from the mark shown in the drawing.

Particular description of goods.—Automobile or Vehicle Electric Lamps.

Claims use since on or about Feb. 1, 1923.

Ser. No. 183,247. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM C. BOETHLING, doing business as Mariba Co., Passaic, N. J. Filed July 16, 1923.

MARIBA

Particular description of goods.—Tea Used in the Treatment of Obesity.

Claims use since July 1, 1913.

Ser. No. 183,287. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HECKER-JONES-JEWELL MILLING COMPANY, New York, N. Y. Filed July 16, 1923.

SARABATANA

Particular description of goods.—Wheat Flour.

Claims use since Mar. 2, 1916.

Ser. No. 183,311. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MOYER BROS., Chicago, Ill. Filed July 16, 1923.

Moyer Bros.



The words "Hearth Baked Pretzels" forming no part of the registration sought apart from the mark shown in the drawing.

Particular description of goods.—Pretzels.

Claims use since 1917.

Ser. No. 183,339. (CLASS 38. PRINTS AND PUBLICATIONS.) CLYDE A. MANN, Chicago, Ill. Filed July 17, 1923.

Better Homes Handbook



Particular description of goods.—Hand and Manual Book Published Monthly.

Claims use since Nov. 1, 1922.

Ser. No. 183,360. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) A. W. CADMAN MANUFACTURING CO., Pittsburgh, Pa. Filed July 18, 1923.

BEARITE

Particular description of goods.—Bearing Metals.

Claims use since Oct. 31, 1921.

Ser. No. 183,419. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARGUERITE SULLIVAN, Philadelphia, Pa., assignor to Eugene J. Reefer and Marguerite Sullivan, both of Philadelphia, Pa., trading as Domino House, Philadelphia, Pa. Filed July 18, 1923.

VANETTE

Particular description of goods.—Vanishing Cream.

Claims use since July 12, 1923.

Ser. No. 183,422. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLARA TETLOW, doing business as Tetlow Manufacturing Co., Philadelphia, Pa. Filed July 18, 1923.

Orange Dew



Particular description of goods.—Talcum Powders.

Claims use since June 1, 1923.

Ser. No. 183,454. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES F. ROSS, New York, N. Y. Filed July 19, 1923.



Applicant hereby disclaims the use of the words "Salve for Sores, Wounds, Burns, Bruises, Carbuncles, and All External Uses" and "Inwood, L. I." appearing in the drawing.

Particular description of goods.—Healing Salve.

Claims use since Oct. 1, 1912.

Ser. No. 183,478. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HECKER-JONES-JEWELL MILLING COMPANY, New York, N. Y. Filed July 20, 1923. Under ten-year proviso.

SNOW BLOSSOM

Particular description of goods.—Wheat Flour.

Claims use since 1885.

Ser. No. 183,509. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed July 20, 1923.

TIP-TOP

Particular description of goods.—Breakfast Cereal.
Claims use since July 10, 1923.

Ser. No. 183,531. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEW ENGLAND FISH COMPANY, Boston, Mass. Filed July 21, 1923.

GOLD STANDARD

Particular description of goods.—Canned Salmon.
Claims use since May 26, 1923.

Ser. No. 183,542. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STOTHART'S DRUG STORE, Augusta, Ga. Filed July 21, 1923.

D AND I

Particular description of goods.—Remedy for Dyspepsia and Indigestion.
Claims use since July 1, 1923.

Ser. No. 183,562. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ECONOMY COOKER COMPANY, Providence, R. I. Filed July 23, 1923.

Economy Steam Pressure Cooker
THE COOK THAT NEVER LEAVES

No claim is made to the words "Steam Pressure Cooker" apart from the mark shown in the drawing.
Particular description of goods.—Steam-Pressure Cookers.
Claims use since June 1, 1923.

Ser. No. 183,641. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARKADELPHIA MILLING COMPANY, Arkadelphia, Ark. Filed July 25, 1923.

Sweet Heart



Particular description of goods.—Stock Feed.
Claims use since June 6, 1923.

Ser. No. 183,654. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MRS. E. W. INGRAM, Peoria, Ill. Filed July 25, 1923.

YOUTHTONE

Particular description of goods.—Complexion Cream.
Claims use since May 1, 1922.

Ser. No. 183,728. (CLASS 38. PRINTS AND PUBLICATIONS.) CONSTANCE H. BAUM, New York, N. Y. Filed July 27, 1923.

RADIO

Particular description of goods.—Novelty Designs for Textiles, the Physical Characteristics of Which Are Sheets of Paper or Cardboard Bearing on Their Face Any Contrasting Display Medium, Such as Ink, Pencil Marks, or Paint, Displaying an Artist's Design.
Claims use since June 13, 1923.

Ser. No. 183,729. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BENNETT RUBBER CO. INC., Los Angeles, Calif. Filed July 27, 1923.

PACIFIC BOILER COMPOUND

No claim is made for the words "Boiler Compound" apart from the mark as shown.
Particular description of goods.—Boiler Compound.
Claims use since Oct. 1, 1921.

Ser. No. 183,769. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE GUERLAIN, Paris, France. Filed July 27, 1923.

EAU DE COLOGNE
Impériale

Particular description of goods.—Perfumes.
Claims use since 1875.

Ser. No. 183,794. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE FISK RUBBER COMPANY, Chicopee Falls, Mass. Filed July 28, 1923.

F

Particular description of goods.—Vehicle Tires Made Wholly or Partly of Rubber and Rubber Tubes Therefor.
Claims use since June 1, 1923.

Ser. No. 183,819. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CLAUSEN-ZOLLER COMPANY, St. Louis, Mo. Filed July 30, 1923.

GURBENOL

Particular description of goods.—Urinary Antiseptic.
Claims use since June 1, 1922.

Ser. No. 183,844. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAR-SON MEDICINE CO., St. Louis, Mo. Filed July 30, 1923.

Mar-Son

The mark consists of the word "Mar-Son."
Particular description of goods.—Tooth Paste for the Treatment and Prevention of Pyorrhea.
Claims use since Aug. 15, 1922.

Ser. No. 183,848. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) NORWICH WIRE WORKS, INC., Norwich, N. Y. Filed July 30, 1923.

DIAMOND BRAND

No claim is made to the word "Brand" apart from the mark as shown.
Particular description of goods.—Game Traps.
Claims use since about Mar. 30, 1923.

Ser. No. 183,851. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARKE, DAVIS & COMPANY, Detroit, Mich. Filed July 30, 1923.

PD&Co

Particular description of goods.—Dentifrice, Cold Cream, Vanishing Skin Cream, and Skin Lotion.
Claims use since July 18, 1923.

Ser. No. 183,891. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN A. ROGERS, Yonkers, N. Y. Filed July 31, 1923.



No claim is made to the words "Hair Pomade" aside from the mark shown.

Particular description of goods.—Preparation for Hair Restoring and Growing.

Claims use since Jan. 1, 1921.

Ser. No. 183,902. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BERNARD & BLANCHARD, Albany, N. Y. Filed Aug. 1, 1923.



Particular description of goods.—Salt.

Claims use since about 1885.

Ser. No. 183,912. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FONTOLA MEDICINE CO., Fort Smith, Ark. Filed Aug. 1, 1923.

IRONIZED PEP

Particular description of goods.—Tonic in Tablet Form for Treating Anæmia, Low Vitality, Rickets, Boils, or Pimples, Increasing Appetite, Aiding Digestion, Stimulating the Nerves, and Building Flesh.

Claims use since July 10, 1923.

Ser. No. 183,959. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAVIS-REESE CO., INC., Brooklyn, N. Y. Filed Aug. 2, 1923.



The letters in the illustration are displayed in blue with red shadows. No proprietory rights are claimed in the word "Pops" appearing on the drawing apart from the other features of the mark shown.

Particular description of goods.—Stick Candy.

Claims use since about June 15, 1923.

Ser. No. 183,973. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE HOLSTEIN-FRIESIAN ASSOCIATION OF AMERICA, Chicago, Ill. Filed Aug. 2, 1923.

WHITE NECTAR

Particular description of goods.—Milk, Cream, Buttermilk, Butter, and Cheese.

Claims use since July 24, 1923.

Ser. No. 183,980. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LA VALLIERE CO., New Orleans, La. Filed Aug. 2, 1923.

SUB ROSA

The mark consists of the words "Sub Rosa."

Particular description of goods.—Toilet Deodorant.

Claims use since 1913.

Ser. No. 183,993. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY L. RENARD, Philadelphia, Pa. Filed Aug. 2, 1923.



The words "Insecticide" and "Fungicide" are hereby disclaimed except in combination with the mark shown, applicant, however, waiving no common-law rights in the trade-mark as a whole.

Particular description of goods.—Insecticides and Fungicides.

Claims use since May 25, 1923.

Ser. No. 183,998. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SUPERIOR CHEMICAL COMPANY, Chicago, Ill. Filed Aug. 2, 1923.

PRESTO-PAD

No claim is made to the exclusive use of the word "Pad" apart from the combination with the word "Presto."

Particular description of goods.—Chemical Heat Bags.

Claims use since May 15, 1923.

Ser. No. 184,009. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNITED STATES ALKALI EXPORT ASSOCIATION INC., New York, N. Y. Filed Aug. 2, 1923.



Applicant disclaims the exclusive right to the use of the words "United States of America Caustic Soda Standard 76% 78% Guaranteed" apart from the mark as shown.

Particular description of goods.—Caustic Soda.

Claims use since Mar. 31, 1923.

Ser. No. 184,045. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VOSS & STERN, New York, N. Y. Filed Aug. 3, 1923.

Kant-fade FABRICS
Sun & Suds Proof

No claim is made to the words "Fabrics Sun & Suds Proof" apart from the mark shown in the drawing. No common-law right to the mark or any feature thereof is waived by this disclaimer. The words "Sun & Suds Proof" are printed in red letters.

Particular description of goods.—Silk Piece Goods, Cotton Piece Goods, Silk and Cotton Piece Goods, Linen Piece Goods, and Goods Having Various Combinations of the Above Materials.

Claims use since July 26, 1923.

Ser. No. 184,067. (CLASS 39. CLOTHING.) CLOVERLEAF KNITTING MILLS INC., New York, N. Y. Filed Aug. 4, 1923.



Particular description of goods.—Knitted Garments, as Follows: Hats, Dresses, Blouses, Scarfs, Suits, Outer Skirts, Bathing Suits, Knickers, Vestees, Jacquettes, Coats, Capes, Mufflers, Hosiery, Ladies' Underwear, Neckties, Petticoats, Bloomers.

Claims use since Nov. 15, 1921.

Ser. No. 184,074. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HILL & JACKSON, Waskom, Tex. Filed Aug. 4, 1923.



No claim is made for the words "Hair Treatment" apart from the mark shown in the drawing. The portrait appearing on the drawing is fanciful.

Particular description of goods.—Hair Grower.

Claims use since July 18, 1923.

Ser. No. 184,078. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE KEYSTONE COMPANY OF SAN JOSE, also doing business as Keystone Company, San Jose, Calif. Filed Aug. 4, 1923.

257

Particular description of goods.—Canned Vegetables, Canned Fruits, Flavoring Extracts, Catchup, and Vinegar.
Claims use since 1905.

Ser. No. 184,087. (CLASS 39. CLOTHING.) DAVID BAIRD MACDONALD, Leicester, England. Filed Aug. 4, 1923.

KRUX

Particular description of goods.—Boots, Shoes, and Slippers and Their Components—Namely, Stiffeners, Counters, Puffs, Toe Cases, Toe Caps, Soles, Heels, and Socks of Leather, Fabric, Rubber, Wood, Compo, or Combinations Thereof.
Claims use since Sept. 17, 1914.

Ser. No. 184,095. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS PHILIPPE, New York, N. Y. Filed Aug. 4, 1923.

Je Pense à Vous

Particular description of goods.—Perfumes, Toilet Waters, Face Powders, Face Creams, and Rouge.
Claims use since January, 1915.

Ser. No. 184,105. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEO. C. SHARROW, doing business as Lifo Medicine Company, Columbus, Ohio. Filed Aug. 4, 1923.

Lifo

Particular description of goods.—Medicine for the Stomach, Liver, Kidneys, and Bowels.
Claims use since Nov. 1, 1922.

Ser. No. 184,107. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SIMPLEX ELECTRICAL LABORATORIES, INC., New York and Brooklyn, N. Y. Filed Aug. 4, 1923.

BASUB

Particular description of goods.—Electrical Instruments for Adapting Commercial Alternating Current for Use in Radio Receiving Circuits as a Substitute for a Storage Battery.
Claims use since on or about July 1, 1923.

Ser. No. 184,118. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE L. D. CAULK COMPANY, Milford, Del. Filed Aug. 6, 1923.

REPELAC

Particular description of goods.—Preparation for Application to Dental Cavities to Protect Same Against Moisture and Acid, for Application to the Gums to Exclude Moisture and Saliva Seepage During Dental Operations, and for Application to Dental Instruments to Protect Same Against Rust.
Claims use since July 17, 1923.

Ser. No. 184,122. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SYLVESTER T. COHANE, doing business as Park Mfg. Co., Hartford, Conn. Filed Aug. 6, 1923.

MUMPHONE

Particular description of goods.—Telephone Silencers.
Claims use since Apr. 1, 1923.

Ser. No. 184,124. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK DEDEK, Chicago, Ill. Filed Aug. 6, 1923.

TVRDOLYN

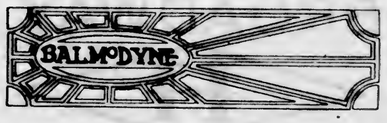
Particular description of goods.—Laxative Tea.
Claims use since Sept. 7, 1921.

Ser. No. 184,128. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES H. FORD, Taft, Okla. Filed Aug. 6, 1923.



No claim is made to the words "Brand" and "Worm and Cholera" apart from the mark.
Particular description of goods.—Preparation for the Treatment of Cholera, Colds, Coughs, Worms, and General Debility of Hogs and Pigs.
Claims use since June 6, 1923.

Ser. No. 184,167. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE JOHNSON PHARMACEUTICAL COMPANY, Woburn, Mass. Filed Aug. 7, 1923.



Particular description of goods.—Ointment—An External Preparation for the Treatment of Rheumatism, Neuralgia, Headache, Earache, Toothache, Catarrh, and Hend Colds. It has Been Found Invaluable in the Treatment of Tonsillitis and for Colds in the Chest. Balmodyne is Particularly Adapted to the Treatment of Tired and Aching Feet, Chilblains, Chapped Hands, and Insect Bites.
Claims use since Aug. 1, 1922.

Ser. No. 184,173. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MASTIN & COMPANY, INC., New York, N. Y. Filed Aug. 7, 1923.

DAX

Particular description of goods.—Treatment in Tablet Form for Coughs, Sore Throat, Bronchitis, Laryngitis, Croup, Inflamed Tonsils, Tender Breathing Passages, and Colds.
Claims use since July 28, 1923.

Ser. No. 184,174. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MASTIN & COMPANY, INC., New York, N. Y. Filed Aug. 7, 1923.

KARDONAL

Particular description of goods.—Treatment in Liquid and Tablet Form for Rheumatism, Kidney, Liver, and Bladder Complaints.
Claims use since July 28, 1923.

Ser. No. 184,188. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE FRANCAISE DE RECHERCHES ET APPLICATIONS SCIENTIFIQUES, Paris, France. Filed Aug. 7, 1923.

SYNTHOL

Particular description of goods.—Remedy in Liquid Form for External Application for the Treatment of Fainting Fits, Neurasthenia, Exhaustion, Incipient Tuberculosis, Insomnia, Meningitis, Headaches, Pneumonia, Arthritis, and Phlebitis.
Claims use since Jan. 15, 1923.

Ser. No. 184,189. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE FRANCAISE DE RECHERCHES ET APPLICATIONS SCIENTIFIQUES, Paris, France. Filed Aug. 7, 1923.

VITASE

Particular description of goods.—Preparation for Gastro-Intestinal Diseases.
Claims use since Jan. 15, 1923.

Ser. No. 184,192. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. D. THATCHER & COMPANY, INC., Potsdam, N. Y. Filed Aug. 7, 1923.

IMPERIAL

Particular description of goods.—Butter and Cheese Coloring.
Claims use since Mar. 24, 1917.

Ser. No. 184,196. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDYTHE ELDER VAUGHAN, Bartow, Fla. Filed Aug. 7, 1923.

NOX-SORE

Particular description of goods.—Medicine for Eczema, Pyorrhea, and Mange.
Claims use since October, 1906.

Ser. No. 184,228. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARKADELPHIA MILLING CO., Arkadelphia, Ark. Filed Aug. 9, 1923.



Particular description of goods.—Laying Mash, Scratch Feed, Poultry Feed, Dairy Feed, Horse and Mule and Dried Mixed Feed.
Claims use since 1901.

Ser. No. 184,254. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) NEWTOWN GIANT INCUBATOR CORPORATION, Harrisonburg, Va. Filed Aug. 9, 1923.

NEWTOWN

Particular description of goods.—Incubators, Brooders, Trap Nests, Portable Chicken Houses, and Incubator Pedigree Hatching Baskets.
Claims use since Oct. 8, 1921.

Ser. No. 184,280. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS PHILIPPE, New York, N. Y. Filed Aug. 9, 1923.

ALCOLIVOIL

Particular description of goods.—Liquid Massage for the Face and Body.
Claims use since 1915.

Ser. No. 184,295. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACQUES ROMANO, New York, N. Y. Filed Aug. 10, 1923.

ONA-MOR

Particular description of goods.—Massage Cream.
Claims use since July 25, 1923.

Ser. No. 184,324. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COFIELD LABORATORIES, INC., Philadelphia, Pa. Filed Aug. 11, 1923.

PEPSID

Particular description of goods.—Indigestion and Dyspepsia Remedies.
Claims use since Aug. 8, 1923.

Ser. No. 184,427. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ROBERT HOUSTON SMITH, Lewisburg, Tenn. Filed Aug. 13, 1923.

MELLOWMOON

Particular description of goods.—Maltless Sirups for Carbonated Beverages.
Claims use since July, 1923.

Ser. No. 184,447. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE "H. W." COMPANY, St. Louis, Mo. Filed Aug. 14, 1923.

"H. W."

Particular description of goods.—Medicinal Remedy for the Treatment and Prevention of Cholera, Chicken Pox, Canker, Roup, and Diarrhea in Poultry and Pigeons.
Claims use since about Dec. 30, 1915.

Ser. No. 184,451. (CLASS 39. CLOTHING.) HODES MILLS INC., New York, N. Y. Filed Aug. 14, 1923.

BROADWAY H ATHLETIC

No claim is made to the exclusive use of the word "Athletic" apart from the mark as shown in the drawing.
Particular description of goods.—Men's and Boys' Knitted and Textile Athletic Underwear in One and Two Piece Garments.
Claims use since July, 1923.

Ser. No. 184,452. (CLASS 39. CLOTHING.) HODES MILLS INC., New York, N. Y. Filed Aug. 14, 1923.

COOL COMFORT H CLOSED CROTCH

No claim is made to the exclusive use of the words "Closed Crotch" apart from the mark as shown in the drawing.
Particular description of goods.—Men's and Boys' Knitted and Textile Athletic Underwear in One and Two Piece Garments.
Claims use since February, 1921.

Ser. No. 184,525. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IRVING SELKOW, doing business as Washington Barber Supply Co., New York, N. Y. Filed Aug. 15, 1923.

LUSTEROL

Particular description of goods.—Hair Dressing.
Claims use since July, 1922.

Ser. No. 184,572. (CLASS 12. CONSTRUCTION MATERIALS.) UNIVERSAL GYPSUM COMPANY, Chicago, Ill. Filed Aug. 16, 1923.

UNIVERSAL U GYPSUM

No claim is made to the exclusive use of the word "Gypsum" apart from the mark shown on the drawing.
Particular description of goods.—Plaster.
Claims use since June 27, 1923.

Ser. No. 184,618. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NAVELENCIA FRUIT GROWERS, Navelencia, Calif. Filed Aug. 17, 1923.

TIP TOP

Particular description of goods.—Fresh Grapes.
Claims use since July 1, 1923.

Ser. No. 184,637. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BONITA CO., Fond du Lac, Wis. Filed Aug. 18, 1923.

BARNEY GOOGLE

Particular description of goods.—Candy.
Claims use since June 9, 1923.

Ser. No. 184,639. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOSTON ELECTROLYTIC OXYGEN COMPANY, Everett, Mass. Filed Aug. 18, 1923.

BE-O-GAS

No exclusive rights are claimed in the word "Gas" apart from the mark shown in the drawing, but applicant waives none of its common-law rights in said mark or any element thereof.
Particular description of goods.—Oxygen and Hydrogen Gases.
Claims use since December, 1921.

Ser. No. 184,693. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WINIFRED SACKVILLE STONER, New York, N. Y. Filed Aug. 18, 1923.



Particular description of goods.—Powder for Cleansing and Softening the Skin.
Claims use since July 16, 1922.

Ser. No. 184,725. (CLASS 39. CLOTHING.) HARRY K. GROUT, doing business as H. K. Grout & Co., Cedar Rapids, Iowa. Filed Aug. 20, 1923.

"MADAM MAC"

Particular description of goods.—Underwear Manufactured from Textile Fabric for Women and Children.
Claims use since May 1, 1923.

Ser. No. 184,774. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WADE H. TRIGG, doing business as Sta-Bak Makers, Aberdeen, S. Dak. Filed Aug. 20, 1923.

"STA-BAK"

Particular description of goods.—Hair Tonic, Hair Dressing, and Dandruff Remover.
Claims use since July 30, 1923.

Ser. No. 184,815. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DISAPPEARING PROPELLER BOAT CO. LIMITED, Toronto, Ontario, Canada. Filed Aug. 22, 1923.

SILENT DIS-PRO

No claim is made to the use of the word "Silent" except in connection with the mark as shown in the drawing.
Particular description of goods.—Internal-Combustion Motors and Parts Thereof.
Claims use since July, 1916.

Ser. No. 184,864. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KLAMATH RIVER PACKERS ASSN., Requa, Calif. Filed Aug. 22, 1923.

SUPERB

Particular description of goods.—Canned Salmon.
Claims use since July 1, 1923.

Ser. No. 184,872. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. A. SEXAUER MFG. CO. INC., New York, N. Y. Filed Aug. 22, 1923.

MULE-KICK

Particular description of goods.—Paste Pipe Cleaner.
Claims use since June 1, 1921.

Ser. No. 184,875. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. M. THOMAS, Bessemer, Ala. Filed Aug. 22, 1923.



E. M. THOMAS
Black King
King of Rheumatism

Part of the mark is the portrait of E. M. Thomas.
Particular description of goods.—Medicine for Rheumatism, Indigestion, Dyspepsia, Sick Headache, Bad Blood, Disorder of the Stomach, Nervousness, and Run-Down Condition of the System.
Claims use since June, 1921.

Ser. No. 184,898. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACOB RUBIN FAIN, doing business as The Owl Disinfectant Company, Washington, D. C. Filed Aug. 23, 1923.



ROYOWLINE

Particular description of goods.—Insecticide.
Claims use since Apr. 1, 1920.

Ser. No. 184,899. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACOB RUBIN FAIN, doing business as The Owl Disinfectant Company, Washington, D. C. Filed Aug. 23, 1923.



OWLINE

Particular description of goods.—Insecticide.
Claims use since July 19, 1923.

Ser. No. 184,900. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACOB RUBIN FAIN, doing business as The Owl Disinfectant Company, Washington, D. C. Filed Aug. 23, 1923.



PENTACHLORIDA

Particular description of goods.—Disinfectant.
Claims use since Apr. 1, 1920.

Ser. No. 184,901. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACOB RUBIN FAIN, doing business as The Owl Disinfectant Company, Washington, D. C. Filed Aug. 23, 1923.



Particular description of goods.—Insecticides and Disinfectants.
Claims use since Apr. 1, 1920.

Ser. No. 184,909. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GOUGHNOUR & SHIELDS, Des Moines, Iowa. Filed Aug. 23, 1923.



Particular description of goods.—Tooth Paste.
Claims use since May 24, 1923.

Ser. No. 184,910. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOUBIGANT, INC., New York, N. Y. Filed Aug. 23, 1923.

AU BOIS

Particular description of goods.—Perfume, Toilet Water, Face Powder, Talcum Powder, Sachet, Brilliantine, Face Cream, Rouge, Lotion for the Skin and Hair, and Bath Salts.
Claims use since Aug. 15, 1923.

Ser. No. 184,911. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOUBIGANT, INC., New York, N. Y. Filed Aug. 23, 1923.

AU MATIN

Particular description of goods.—Perfume, Toilet Water, Face Powder, Talcum Powder, Sachet, Brilliantine Cream, Face Cream, Rouge, Lotion for the Skin and Hair, and Bath Salts.
Claims use since Aug. 15, 1923.

Ser. No. 184,991. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PETE SMITH & SON, Cornucopia, Oreg. Filed Aug. 25, 1923.



RED ROSE COUGH MEDICINE

No claim is made to the words "Cough Medicine" apart from the mark shown in the drawing.
Particular description of goods.—Preparation for Use in the Treatment of Coughs and Colds.
Claims use since May 20, 1923.

Ser. No. 185,000. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DOCTOR W. A. ALLEN COMPANY, Los Angeles, Calif. Filed Aug. 27, 1923.

DR. W. A. ALLEN'S
VANGUARD
DENTAL CREAM



No claim is made to the exclusive use of the words "Dental Cream" apart from the mark shown.
Particular description of goods.—Dental Cream.
Claims use since July 11, 1923.

Ser. No. 185,055. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPRINGBROOK CANNING COMPANY, Springbrook, Oreg. Filed Aug. 27, 1923.

SPRINGDELL

Particular description of goods.—Canned Fruits, Canned Berries.
Claims use since May 1, 1923.

Ser. No. 185,104. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE BORGFELDT & CO., New York, N. Y. Filed Aug. 29, 1923.

Nonna Vanna

Particular description of goods.—Toilet Preparations—Namely, Toilet Powder, Rouge, Lip Sticks, Eyebrow Pencils, Dentifrice, Smelling Salts, Perfumes, and Toilet Water.
Claims use since Aug. 28, 1923.

Ser. No. 185,110. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PATRICK J. DONOHOE, doing business as The Minox Co., New York, N. Y. Filed Aug. 29, 1923.



No claim is made to the word "Antiseptic" apart from the mark as shown. The representation of a female bust shown on the drawing is fanciful.

Particular description of goods.—Antiseptic Germicide and Deodorant.

Claims use since Aug. 20, 1923.

Ser. No. 185,118. (CLASS 39. CLOTHING.) M. GERLA & SON, New York, N. Y. Filed Aug. 29, 1923.

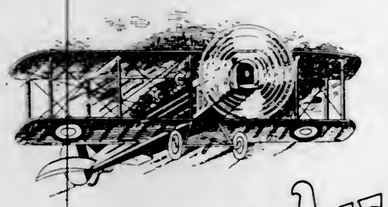


No claim is made to the word "Frock" apart from the mark shown on the drawing.

Particular description of goods.—Infants', Children's, Juniors', Misses', and Ladies' Dresses; Coats, Suits, Waists, Sweaters, Hosiery, and Knitted and Textile Fabric Underwear for Women and Children; Leather and Fabric Gloves; Women's and Children's Hats; Leather, Rubber, and Fabric Shoes.

Claims use since Jan. 1, 1920.

Ser. No. 185,170. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN TEA & COFFEE CO., Nashville, Tenn. Filed Aug. 30, 1923.



Particular description of goods.—Coffee.

Claims use since July 16, 1923.

Ser. No. 185,176. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHOPAK TEXTILE CO. INC., New York, N. Y. Filed Aug. 30, 1923.

VELEGANTTE

The mark consists of the word "Velegantte."

Particular description of goods.—Silk Piece Goods.

Claims use since July 18, 1923.

Ser. No. 185,240. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) APOLLO DRUG COMPANY, Gary, Ind. Filed Sept 1, 1923.

Vigorlac

Particular description of goods.—Tonic Medicine for the Stomach, Bowels, Blood, Nerves, Kidneys, and Heart.

Claims use since Apr. 15, 1922.

Ser. No. 185,269. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK C. VANDERBOGET, New York, N. Y. Filed Sept. 1, 1923.

Acta

Particular description of goods.—Baking Powder.

Claims use since Aug. 27, 1923.

Ser. No. 185,344. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MEDICO-DENTAL SPECIALTY CO., San Diego, Calif. Filed Sept. 5, 1923.

It'z-Gone!

Particular description of goods.—Tooth-Stain Remover.

Claims use since Aug. 7, 1923.

Ser. No. 185,358. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ARNOLD M. BARRON, doing business as Ferris Radio Research Laboratory, Boston, Mass. Filed Sept. 6, 1923.



The words "Trade-Mark" apart from the mark shown in the drawing are disclaimed.

Particular description of goods.—Radiodetectors.

Claims use since July 1, 1923.

Ser. No. 185,359. (CLASS 39. CLOTHING.) A. BELLER & COMPANY, New York, N. Y. Filed Sept. 6, 1923.

OURSINE

Particular description of goods.—Ladies' Coats, Capes, Suits, and Dresses.

Claims use since November, 1921.

Ser. No. 185,373. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE MONSARRAT BROTHERS COAL CO., Columbus, Ohio. Filed Sept. 6, 1923.



Particular description of goods.—Coal.

Claims use since Jan. 1, 1923.

Ser. No. 185,414. (CLASS 39. CLOTHING.) P. CENTEMERI & Co., New York, N. Y. Filed Sept. 7, 1923.

ALVIRA

Particular description of goods.—Leather and Fabric Gloves and Knitted and Textile Underwear for Men, Women, and Children, in One, Two, and Three Piece Garments, and Hosiery.

Claims use since Jan. 1, 1923.

Ser. No. 185,416. (CLASS 39. CLOTHING.) P. CENTEMERI & Co., New York, N. Y. Filed Sept. 7, 1923

Capitol

Particular description of goods.—Knitted and Textile Underwear for Men, Women, and Children, in One, Two, and Three Piece Garments, and Hosiery.

Claims use since 1900.

Ser. No. 185,516. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER DARRELL FRITH, Vancouver, British Columbia, Canada. Filed Sept. 8, 1923.

ALLY

Particular description of goods.—Canned Salmon.

Claims use since Jan. 1, 1918.

Ser. No. 185,525. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) LEONARD SEED COMPANY, Chicago, Ill. Filed Sept. 8, 1923. Under ten-year proviso.



Particular description of goods.—Field, Garden, and Flower Seeds, Onion Sets, and Bulbs.

Claims use since December, 1885.

Ser. No. 185,557. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BURNHAM & MORRILL COMPANY, Portland, Me. Filed Sept. 10, 1923.

Sealpakt

Particular description of goods.—Canned Beans and Pork, Canned Vegetables, and Canned Clams.
Clams.

Claims use since Mar. 29, 1923.

Ser. No. 185,651. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) CARBIDE & CARBON CHEMICALS CORPORATION, New York, N. Y. Filed Sept. 11, 1923.

Pyrofax

Particular description of goods.—Self-Contained Units for Storing and Supplying Gas for Heating, Lighting, and Power Purposes, Comprising a Cabinet, Gas Containers, Regulators, Valves, Gauges, and Piping, and Parts Therefor.
Claims use since May 7, 1923.

Ser. No. 185,858. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHAS. V. CHAMPION, doing business as C. V. Champion & Co., Danville, Ill. Filed Sept. 17, 1923.

THE CHAMPION CORN POPPER

No claim is made to the words "Corn Popper" apart from the mark shown by the drawing.
Particular description of goods.—Corn-Popping Machines.
Claims use since May 14, 1923.

Ser. No. 185,954. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ZEPH E. BURGESS, San Francisco, Calif. Filed Sept. 20, 1923.

LADY GATHA

Particular description of goods.—Massage and Tissue, Cleansing, Whitening, Acne, Finishing, Peach and Almond Liquid, Lemon Face Creams; Dry Face, Liquid Face, Depilatory, Refining, Talcum Powders; Astringent, Bleaching, Hand, Honey Lotions; Tar Scalp, Special Scalp, Pomades; Hair Tonics, Dry and Oily; Brilliantines; Bandoline; Tar Jelly Shampoo; Cuticle Remover, Cuticle Oil, Cuticle Ice; Nail Whitener Paste, Nail Polish; Paste, Liquid, Dry Compact Rouge; Lip Sticks; Bath Salts.
Claims use since Oct. 5, 1922.

Ser. No. 185,969. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RICHARD HUDNUT, New York, N. Y. Filed Sept. 20, 1923.

Fadette

Particular description of goods.—Talcum, Face Powder, Bath Salts, Sachet, Tooth Powder, Almond Meal, Toilet Water, Headache Cologne, Smelling Salts, Dry Cream, Cold Cream, Tooth Paste, Perfume, Lip Rouge, Bath Powder, and Toilet Cerate.
Claims use since Sept. 6, 1923.

Ser. No. 185,976. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LUBRICANT LAXATIVES CORPORATION, Chicago, Ill. Filed Sept. 20, 1923.

mio

Particular description of goods.—Emulsion of Liquid Paraffin.
Claims use since May 2, 1923.

Ser. No. 185,983. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE PARKER-YOUNG COMPANY, Boston, Mass. Filed Sept. 20, 1923.

Pyco

Particular description of goods.—Folding Tables.
Claims use since Sept. 13, 1922.

Ser. No. 186,003. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FARBENFABRIKEN VORM. FRIEDR. BAYER & CO., Leverkusen, near Cologne-on-the-Rhine, Germany. Filed Sept. 21, 1923.

Tutocain

Particular description of goods.—Anæsthetics.
Claims use since about January, 1923.

Ser. No. 186,004. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FARBENFABRIKEN VORM. FRIEDR. BAYER & CO., Leverkusen, near Cologne-on-the-Rhine, Germany. Filed Sept. 21, 1923.

ODYLEN

Particular description of goods.—Agents Against Parasitic and Nonparasitic Skin Diseases.
Claims use since about February, 1923.

Ser. No. 186,005. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FARBENFABRIKEN VORM. FRIEDR. BAYER & CO., Leverkusen, near Cologne-on-the-Rhine, Germany. Filed Sept. 21, 1923.

Aricyl

Particular description of goods.—Agents Against Exhaustion.
Claims use since July, 1921.

Ser. No. 186,024. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed Sept. 21, 1923.

EVEREADY
"THREE"
RADIO BATTERY

Exclusive right to the use of the words "Radio Battery" apart from the associated elements of the mark is hereby disclaimed.
Particular description of goods.—Dry Batteries.
Claims use since June 1, 1923.

Ser. No. 186,026. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE POMPEIAN MFG. COMPANY, Cleveland, Ohio. Filed Sept. 21, 1923.



Particular description of goods.—Face Powder and Face Cream.
Claims use since June 4, 1923.

Ser. No. 186,028. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JEREMIAH SHEEHAN, Providence, R. I. Filed Sept. 21, 1923.

CREOL

Particular description of goods.—Preparation for the Treatment of Piles.
Claims use since Aug. 9, 1923.

Ser. No. 186,057. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HICKS & JOHNSON, Columbus, Ga. Filed Sept. 22, 1923.

GALASOL

Particular description of goods.—Fluid Pharmaceutical Preparation for Astringent and Hæmostatic Qualities.
Claims use since 1907.

Ser. No. 186,128. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FREDRICK A. HARNESS, Kellogg, Idaho. Filed Sept. 24, 1923.



Particular description of goods.—Salve for Itch, Sores, Eczema, Salt Rheum, and Any Kind of Skin Disease.
Claims use since June 15, 1923.

Ser. No. 186,129. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HITS-IT M'F'G CO., Camden, N. J. Filed Sept. 24, 1923.



Particular description of goods.—Insecticide.
Claims use since Apr. 17, 1923.

Ser. No. 186,151. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Sept. 24, 1923.

IMMUNOGEN

Particular description of goods.—Immunizing Agents Used for the Prophylaxis and Treatment of Diseases of Bacterial Origin.
Claims use since Aug. 24, 1923.

Ser. No. 186,153. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHENO-BANE PRODUCTS COMPANY, Sand Springs, Okla., and St. Louis, Mo. Filed Sept. 24, 1923.

Ban

Particular description of goods.—Insecticide.
Claims use since Dec. 12, 1923.

Ser. No. 186,176. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) JEAN ALBERT FRANÇOIS BRUN, Paris, France. Filed Sept. 25, 1923.



Applicant hereby disclaims the words "Trade-Mark" and "Marque Deposee" apart from the mark shown by the drawing.
Particular description of goods.—Taximeters.
Claims use since about March, 1923.

Ser. No. 186,180. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) OSCAR FALKENWALDE, doing business as The O. F. Oil Burner Company, Baltimore, Md. Filed Sept. 25, 1923.



No registration rights are claimed for the words "Asphalt Melter, Baltimore, Md." or the representation of the goods apart from the mark shown in the drawing; but applicant waives none of his common-law rights in said mark or any element thereof.
Particular description of goods.—Asphalt Melter.
Claims use since May, 1922.

Ser. No. 186,240. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LEWIS MANUFACTURING COMPANY, Walpole, Mass. Filed Sept. 26, 1923.

SANIGAUZE

The mark consists of the word "Sanigauze."
Particular description of goods.—Cheesecloth.
Claims use since Aug. 30, 1923.

Ser. No. 186,254. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Sept. 26, 1923.

CLOVERNOOK

Particular description of goods.—Mattresses.
Claims use since July 16, 1923.

Ser. No. 186,257. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TURNER & WALLS, New York, N. Y. Filed Sept. 26, 1923.

Voile Delyte

The mark consists of the words "Voile Delyte," no claim being made to the exclusive use of the word "Voile" apart from the mark as shown in the drawing.
Particular description of goods.—All-Cotton Piece Goods or Silk and Cotton or Silk and Wool Piece Goods.
Claims use since Sept. 7, 1923.

Ser. No. 186,258. (CLASS 39. CLOTHING.) TUTELMAN & KOHN, Philadelphia, Pa. Filed Sept. 26, 1923.

CRITERION

Particular description of goods.—Dress and Negligee Shirts.
Claims use since Aug. 7, 1915.

Ser. No. 186,298. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Sept. 27, 1923.

CAMPHEMOL

Particular description of goods.—Chemical and Pharmaceutical Preparation to be Used as an Analeptic Agent.
Claims use since June 14, 1923.

Ser. No. 186,319. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELINE'S INCORPORATED, Milwaukee, Wis. Filed Sept. 28, 1923.

Boats

Particular description of goods.—Chocolate.
Claims use since Sept. 12, 1923.

Ser. No. 186,367. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Sept. 29, 1923.

MIGNON

Particular description of goods.—Worsted and Woolen Textile Fabrics.
Claims use since Mar. 1, 1922.

Ser. No. 186,369. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Sept. 29, 1923.

NINON

Particular description of goods.—Worsted and Woolen Textile Fabrics.
Claims use since Mar. 1, 1922.

Ser. No. 186,372. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Sept. 29, 1923.

YVETTE

Particular description of goods.—Worsted and Woolen Textile Fabrics.
Claims use since Mar. 1, 1922.

Ser. No. 186,374. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Sept. 29, 1923.

RENEE

Particular description of goods.—Worsted and Woolen Textile Fabrics.
Claims use since Mar. 1, 1922.

Ser. No. 186,380. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) VESS JONES, doing business as Whiz Company, New York, N. Y. Filed Sept. 29, 1923.



Particular description of goods.—Nonalcoholic, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since July 2, 1923.

Ser. No. 186,388. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL FRUIT PRODUCT COMPANY, INC., Alexandria, Va. Filed Sept. 29, 1923.

WHITE HOUSE



Particular description of goods.—Fresh Apples.
Claims use since May 15, 1921.

Ser. No. 186,395. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Sept. 29, 1923.

CORAMINE

Particular description of goods.—Chemical and Pharmaceutical Preparation to be Used as an Analeptic Agent.
Claims use since June 1, 1923.

Ser. No. 186,398. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THACHER MEDICINE COMPANY, Chattanooga, Tenn. Filed Sept. 29, 1923.

STELLA VITAE

Particular description of goods.—Pharmaceutical Preparations—Namely, a Tonic for Female Use.
Claims use since June 29, 1897.

Ser. No. 186,404. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ABRAHAM & STRAUS, INC. New York, N. Y. Filed Oct. 1, 1923.

Sadora

Particular description of goods.—Hair Nets.
Claims use since Mar. 6, 1922.

Ser. No. 186,443. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARFUMERIE ROGER & GALLET, Paris France. Filed Oct. 1, 1923.

LE JADE

Particular description of goods.—Pastes and Powders for Beautifying and Preserving the Teeth, Skin, and Hair, and Perfumery.
Claims use since February, 1923.

Ser. No. 186,481. (CLASS 39. CLOTHING.) MAISON MAURICE, INC., New York, N. Y. Filed Oct. 2, 1923.

Maison Maurice

Particular description of goods.—Women's and Misses' Hats, Dresses, Coats, Wraps, and Capes.
Claims use since 1905.

Ser. No. 186,487. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. L. STIFEL & SONS, Wheeling, W. Va. Filed Oct. 2, 1923.

PANTEX

"Pantex."
Particular description of goods.—Printed Cotton Cloth.
Claims use since August, 1923.

Ser. No. 186,505. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE JOHN H. HIBBEN DRY GOODS CO., Cincinnati, Ohio. Filed Oct. 3, 1923.

BRIGHTON

BRIGHTON

Particular description of goods.—Bleached and Unbleached Muslins, Bleached and Unbleached Wide Sheeting, Sheets, and Pillow Cases, Canton Flannels, Tickings, and Cheviots.
Claims use since January, 1896.

Ser. No. 186,532. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE TROLLEY SUPPLY CO., Massillon, Ohio. Filed Oct. 3, 1923.

GLOWFIRE

Particular description of goods.—Gas Heaters of the Radiant Type.
Claims use since Sept. 21, 1923.

Ser. No. 186,541. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) C. BAHNSEN & CO., INC., New York, N. Y. Filed Oct. 4, 1923.

Rideaulaine

Particular description of goods.—Wool Velour Coating Piece Goods.
Claims use since July 1, 1923.

Ser. No. 186,559. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed Oct. 4, 1923.

Vel-o-ra

Particular description of goods.—Silk Piece Goods.
Claims use since May, 1922.

Ser. No. 186,584. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE CAMPRO CORPORATION, New York, N. Y. Filed Oct. 5, 1923.

CAMPRO

THE CAMERA THAT PROJECTS

The applicant applies only for registration of the design shown by the drawing, and hereby expressly disclaims any intention or desire to include in or to protect by such registration, the words "The Camera That Projects" apart from the mark shown by the drawing.
Particular description of goods.—Motion-Picture Camera and Projector.
Claims use since Sept. 15, 1923.

Ser. No. 186,722. (CLASS 38. PRINTS AND PUBLICATIONS.) W. B. ROSE, Chicago, Ill. Filed Oct. 8, 1923.

LIGHT AND LIFE

The lining upon the drawing is merely for the purpose of shading and is not intended to indicate color.
Particular description of goods.—**Sunday School Publications**—Namely, Newspapers, Lesson Leaves, Lesson Quarterlies, and Picture Cards.
***Claims use* since January, 1897.**

Ser. No. 186,771. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Oct. 10, 1923.

Fenmore

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since July 9, 1923.

Ser. No. 186,830. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) DELATOUR BEVERAGE CORPORATION, New York and Long Island City, N. Y. Filed Oct. 11, 1923.





No claim is made to the printed words apart from the **mark shown in the drawing.**
Particular description of goods.—Ginger Ale.
Claims use since Sept. 8, 1923.

Ser. No. 186,853. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) B. PRIESTLEY & CO., INC., New York, N. Y. Filed Oct. 11, 1923.

NOR-EAST

Particular description of goods.—Cloths and Piece Goods of Woolen, Worsted, Mohair, and Cotton and and Also Piece Goods Made of a Combination of Two or More of These Fibers.
Claims use since Sept. 15, 1922.

Ser. No. 186,854. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) B. PRIESTLEY & CO., INC., New York, N. Y. Filed Oct. 11, 1923.

"Fresh-Air"

Particular description of goods.—Cloths and Piece Goods of Woolen, Worsted, Mohair, and Cotton and and Also Piece Goods Made of a Combination of Two or More of These Fibers.
Claims use since Feb. 15, 1922.

Ser. No. 186,968. (CLASS 39. CLOTHING.) M. E. SMITH & CO., INC., Omaha, Nebr. Filed Oct. 13, 1923.



Particular description of goods.—Dress Aprons.
Claims use since Aug. 1, 1923.

Ser. No. 187,032. (CLASS 39. CLOTHING.) AVEDON & CO., INC., New York, N. Y. Filed Oct. 16, 1923.

TANTIVY

Particular description of goods.—Women's Coats, Suits, Dresses, Blouses, Hosiery, Hats, Sweaters, and Fur Garments and Fur Pieces.
Claims use since 1921.

Ser. No. 187,104. (CLASS 39. CLOTHING.) FRIED, OSTERMANN COMPANY, Milwaukee, Wis. Filed Oct. 17, 1923.

Glove-Flex

Particular description of goods.—Leather Coats and Vests.
Claims use since September, 1922.

Ser. No. 187,194. (CLASS 39. CLOTHING.) BETHLEHEM NARROW TEXTILES CO., Bethlehem, Pa. Filed Oct. 19, 1923.

Mileage

Particular description of goods.—Hosiery.
Claims use since Oct. 1, 1923.

Ser. No. 187,228. (CLASS 39. CLOTHING.) MOSES-ROTHCHILD CO., INCORPORATED, Louisville, Ky. Filed Oct. 19, 1923.

Classic

Particular description of goods.—Men's and Youths' Coats, Vests, Trousers, and Overcoats.
Claims use since September, 1916.

Ser. No. 187,277. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALASKA PACIFIC FISHERIES, Seattle, Wash. Filed Oct. 22, 1923.

Yes Bay

Particular description of goods.—Canned Salmon.
Claims use since July 16, 1923.

Ser. No. 187,283. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY P. BALDWIN, LTD., doing business as Baldwin Packers, Lahaina, Territory of Hawaii. Filed Oct. 22, 1923.

LEI-GIRL

Particular description of goods.—Canned Pineapple.
Claims use since July 30, 1923.

Ser. No. 187,356. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STARR FRUIT PRODUCTS CO., Portland, Oreg. Filed Oct. 22, 1923.

Torchlight

Particular description of goods.—Canned Fruits and Berries.
Claims use since Sept. 1, 1923.

Ser. No. 187,376. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BERNAL H. DYAS, Los Angeles, Calif. Filed Oct. 23, 1923.

PINARC

Particular description of goods.—Portable Ninepin Game.
Claims use since June 15, 1923.

Ser. No. 187,438. (CLASS 31. FILTERS AND REFRIGERATORS.) NIZER CORPORATION, Detroit, Mich. Filed Oct. 24, 1923.

NIZER

Particular description of goods.—Refrigerating Units, Refrigerators, Mechanically-Refrigerated Food Cabinets, and Refrigerating Elements Thereof.
Claims use since Apr. 5, 1923.

Ser. No. 187,453. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COFFEE PRODUCTS CORPORATION, New York, N. Y. Filed Oct. 25, 1923.

KAABA

Particular description of goods.—Coffee.
Claims use since Oct. 4, 1923.

Ser. No. 187,463. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HUNT BROTHERS PACKING COMPANY, San Francisco, Calif. Filed Oct. 25, 1923.

FLORIKEN

Particular description of goods.—Canned Fruits.
Claims use since Oct. 27, 1910.

Ser. No. 187,565. (CLASS 37. PAPER AND STATIONERY.) THE DIEM & WING PAPER CO., Cincinnati, Ohio. Filed Oct. 27, 1923.

SILVER LAKE

Particular description of goods.—Wrapping Paper.
Claims use since January, 1912.

Ser. No. 187,598. (CLASS 32. FURNITURE AND UPHOLSTERY.) ADAM WUEST, Cincinnati, Ohio. Filed Oct. 27, 1923.

SILENT NIGHT

Particular description of goods.—Box Springs and Mattresses.
Claims use since Oct. 12, 1923.

Ser. No. 187,608. (CLASS 37. PAPER AND STATIONERY.) DILL & COLLINS CO., Philadelphia, Pa. Filed Oct. 29, 1923.

DILCOL

Particular description of goods.—Surface Coated and Uncoated Printing and Writing Papers.
Claims use since January, 1915.

Ser. No. 187,617. (CLASS 37. PAPER AND STATIONERY.) FOX RIVER PAPER COMPANY, Appleton, Wis. Filed Oct. 29, 1923.

INTEREST

Particular description of goods.—Writing Paper.
Claims use since Oct. 15, 1923.

Ser. No. 187,712. (CLASS 37. PAPER AND STATIONERY.) CHEMICAL PAPER MANUFACTURING COMPANY, Holyoke, Mass. Filed Oct. 31, 1923.

ITEM

Particular description of goods.—Ledger Paper.
Claims use since Apr. 3, 1923.

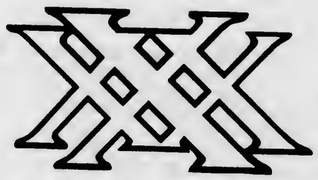
Ser. No. 187,713. (CLASS 37. PAPER AND STATIONERY.) CHEMICAL PAPER MANUFACTURING COMPANY, Holyoke, Mass. Filed Oct. 31, 1923.

BANTAM

Particular description of goods.—Light-Weight Writing and Printing Paper.
Claims use since Dec. 5, 1917.

Ser. No. 187,764. (CLASS 37. PAPER AND STATIONERY.) OSBORNE PAPER COMPANY, Marion, Ind. Filed Oct. 31, 1923.

TRIPLE X



Particular description of goods.—Writing Tablets, School Tablets, Composition Books, Student Notebooks, Envelopes, Papeteries, Loose-Leaf Package Paper, and Loose-Leaf Binders.
Claims use since 1912.

Ser. No. 187,822. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GREGERS G. B. KJELGAARD, Hoosick Falls, N. Y. Filed Nov. 1, 1923.



No claim is made to the words "Swimming Device" apart from the mark shown.
Particular description of goods.—Swimming Apparatus.
Claims use since Sept. 8, 1923.

Ser. No. 187,833. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) E. MITTELSTAEDT, INC., New York, N. Y. Filed Nov. 1, 1923.

AS YOU LIKE IT

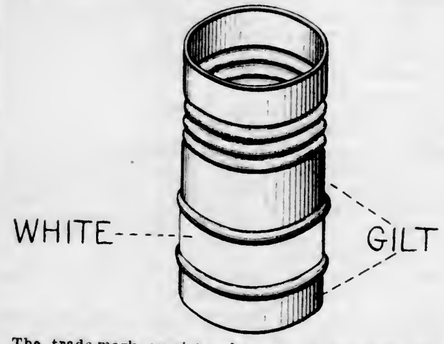
Particular description of goods.—Padding for Hair Dressing.
Claims use since May 11, 1923.

Ser. No. 187,885. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE TOBRIN TOOL COMPANY, Plantsville, Conn. Filed Nov. 2, 1923.



Particular description of goods.—Cold Chisels, Pipe Wrenches, and Screw Drivers.
Claims use since Sept. 15, 1923.

Ser. No. 188,178. (CLASS 37. PAPER AND STATIONERY.) BLAISDELL PENCIL COMPANY, Philadelphia, Pa. Filed Nov. 10, 1923.



The trade-mark consists of a gilt tip encircled by a white band. No claim is made to the words "White" and "Gilt" appearing on the drawing.
Particular description of goods.—Lead Pencils.
Claims use since about Oct. 1, 1923.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

DECEMBER 18, 1923.

177,292. A CERTAIN MEDICINAL COMPOUND. JATH'S CAMPHORUB COMPANY, Omaha, Nebr.
Filed April 12, 1923. Serial No. 179,044. PUBLISHED OCTOBER 16, 1923.

177,293. MAGAZINES ISSUED MONTHLY, CALENDAR CARDS, PRINTED BOOKS, PAMPHLETS, AND CIRCULARS. JOURNEYMEN BARBERS' INTERNATIONAL UNION OF AMERICA, Indianapolis, Ind.
Filed January 13, 1923. Serial No. 175,247. PUBLISHED OCTOBER 2, 1923.

177,294. LEMON CREAM, BRILLIANTINE, FRECKLE CREAM, ROUGE, BLEACHING CREAM AND DEPILATORY, GREASELESS CREAM AND FANJO OR VANISHING CREAM. JOSEPH CAPLAN, doing business as Laforé Perfumery Co., New York, N. Y.
Filed January 26, 1923. Serial No. 175,131. PUBLISHED SEPTEMBER 25, 1923.

177,295. PERIODICAL PUBLISHED MONTHLY. AMERICAN MANUFACTURERS FOREIGN CREDIT UNDERWRITERS, INC., New York, N. Y.
Filed January 26, 1923. Serial No. 175,120. PUBLISHED OCTOBER 2, 1923.

177,296. CARTOONS FOR PUBLICATION IN NEWSPAPERS, MAGAZINES, PAMPHLETS, AND BOOK FORM. ROBERT W. HERTZ, Indianapolis, Ind.
Filed January 22, 1923. Serial No. 174,900. PUBLISHED OCTOBER 2, 1923.

177,297. THOUSAND ISLAND DRESSING AND MAYONNAISE DRESSING. E. G. NELSON & SON, Chicago, Ill.
Filed January 20, 1923. Serial No. 174,849. PUBLISHED OCTOBER 2, 1923.

177,298. EDUCATIONAL CARD GAME. JEANNETTE C. SHINN, doing business as J. C. Shinn Co., New York, N. Y.
Filed January 5, 1923. Serial No. 174,217. PUBLISHED OCTOBER 2, 1923.

177,299. EVAPORATED MILK. THE DEFIANCE DAIRY PRODUCTS COMPANY, Defiance, Ohio.
Filed January 3, 1923. Serial No. 174,129. PUBLISHED OCTOBER 2, 1923.

177,300. WALL CALENDARS, ALMANACS, PRINTED BOOKS FOR BANK LIBRARIES, PRINTED BOOKS, BOOKLETS, INTEREST CALCULATORS, PRINTED HOLIDAY-CLOSING SIGNS, AND PRINTED PERIODICAL MAGAZINES. LEVEY PRINTING COMPANY, Indianapolis, Ind.
Filed December 18, 1922. Serial No. 173,506. PUBLISHED SEPTEMBER 25, 1923.

177,301. WALL CALENDARS, ALMANACS, PRINTED BOOKS FOR BANK LIBRARIES, PRINTED BOOKS, BOOKLETS, INTEREST CALCULATORS, PRINTED HOLIDAY-CLOSING SIGNS, PRINTED INTEREST BOOKS, PRINTED LOBBY SIGNS, AND PERIODICAL MAGAZINES. LEVEY PRINTING COMPANY, Indianapolis, Ind.
Filed December 18, 1922. Serial No. 173,509. PUBLISHED SEPTEMBER 25, 1923.

177,302. SIRUP FOR SOFT DRINKS. SETHNESS COMPANY, Chicago, Ill.
Filed December 9, 1922. Serial No. 173,147. PUBLISHED OCTOBER 2, 1923.

177,303. BOLIVIA COATINGS IN THE PIECE. C. BAHNSEN & CO., INC., New York, N. Y.
Filed November 24, 1922. Serial No. 172,462. PUBLISHED SEPTEMBER 25, 1923.

177,304. BOLIVIA COATINGS IN THE PIECE. C. BAHNSEN & CO., INC., New York, N. Y.
Filed November 24, 1922. Serial No. 172,461. PUBLISHED SEPTEMBER 25, 1923.

177,305. PREPARATION FOR HYPODERMIC USE. ISTITUTO NAZIONALE MEDICO FARMACOLOGICO, Rome, Italy.
Filed November 11, 1922. Serial No. 171,848. PUBLISHED SEPTEMBER 18, 1923.

177,306. CANDY. FRANK K. UNDERWOOD, doing business as Underwood Candy Co., Oskaloosa, Iowa.
Filed October 19, 1922. Serial No. 170,959. PUBLISHED SEPTEMBER 25, 1923.

177,307. COMPLETELY-PRINTED BOOKS. ALFRED A. KNOPF, INC., New York, N. Y.
Filed October 12, 1922. Serial No. 170,653. PUBLISHED SEPTEMBER 25, 1923.

177,308. WOMEN'S DRESSES. L. BAMBERGER & CO., Newark, N. J.
Filed October 6, 1922. Serial No. 170,360. PUBLISHED OCTOBER 2, 1923.

177,309. PERFUMES AND TOILET WATERS. PAUL PIOT & CIE., doing business as Parfumerie Lubin, Paris, France.
Filed September 29, 1922. Serial No. 170,081. PUBLISHED SEPTEMBER 25, 1923.

177,310. CATALOGUES PUBLISHED ANNUALLY. Ross & COMPANY, New York, N. Y.
Filed September 11, 1922. Serial No. 169,327. PUBLISHED OCTOBER 2, 1923.

177,311. TOY DOGS. P. F. VOLLAND CO., Chicago, Ill.
Filed July 24, 1922. Serial No. 167,342. PUBLISHED OCTOBER 2, 1923.

177,312. CERTAIN NAMED CLOTH. PETERS BROTHERS RUBBER CO., INC., New York, N. Y.
Filed July 19, 1922. Serial No. 167,098. PUBLISHED SEPTEMBER 25, 1923.

177,313. METAL POLISH. HERBERT G. PARROTT, Chicago, Ill.
Filed May 11, 1923. Serial No. 180,490. PUBLISHED SEPTEMBER 25, 1923.

177,314. DAILY NEWSPAPER. VICTORIA MURDOCK ESTATE, doing business as The Wichita Eagle, Wichita, Kans.
Filed May 11, 1923. Serial No. 180,514. PUBLISHED OCTOBER 2, 1923.

177,315. NEGOTIABLE BONDS AND REGISTRABLE BONDS. METZLER & COMPANY, INCORPORATED, New York, N. Y.
Filed May 8, 1923. Serial No. 180,338. PUBLISHED OCTOBER 2, 1923.

177,316. PREPARATION FOR DANDRUFF, ECZEMA, AND FALLING HAIR. JOSEPH G. PAGE, doing business as J. G. Page Chemical Co., Buffalo, N. Y.
Filed May 7, 1923. Serial No. 180,294. PUBLISHED SEPTEMBER 25, 1923.

177,317. REMEDY FOR PILES, COLD IN THE CHEST, SORE MUSCLES, AND BURNS. S. Y. C. O. Co., Chicago, Ill.
Filed May 5, 1923. Serial No. 180,241. PUBLISHED SEPTEMBER 25, 1923.

177,318. WINES. SOC. AN. FSCO. CINZANO & CIA, Turin, Italy.
Filed May 5, 1923. Serial No. 180,246. PUBLISHED OCTOBER 2, 1923.

177,319. WHISKY, ETC. SOC. AN. FSCO. CINZANO & CIA, Turin, Italy.
Filed May 5, 1923. Serial No. 180,247. PUBLISHED OCTOBER 2, 1923.

177,320. CERTAIN DENTAL, MEDICAL AND SURGICAL APPLIANCES. BLACKMAN & BLACKMAN, New York, N. Y.
Filed May 1, 1923. Serial No. 179,986. PUBLISHED SEPTEMBER 4, 1923.

177,321. SWEATERS AND BATHING SUITS. CHARLES FRANKLIN, Boston, Mass.
Filed May 3, 1923. Serial No. 180,117. PUBLISHED OCTOBER 2, 1923.

177,322. LACES, HANDKERCHIEFS, EMBROIDERIES, AND CERTAIN PIECE GOODS. NOTTINGHAM LACE WORKS, Jersey City, N. J., and New York, N. Y.
Filed April 18, 1923. Serial No. 179,317. PUBLISHED SEPTEMBER 25, 1923.

177,323. PREPARATION FOR USE IN TREATING TONSILLITIS, SORE THROAT, AND FOR A LAXATIVE. R. BLACKWELL SMITH, doing business as The Tonsone Co., Petersburg, Va.
Filed April 18, 1923. Serial No. 179,334. PUBLISHED SEPTEMBER 25, 1923.

177,324. WOOLEN, WORSTED PIECE GOODS. THE BELL COMPANY, Worcester, Mass.
Filed April 27, 1923. Serial No. 179,769. PUBLISHED SEPTEMBER 18, 1923.

177,325. TICKING. THE P. R. MITCHELL CO., New York, N. Y.
Filed April 10, 1923. Serial No. 178,931. PUBLISHED SEPTEMBER 25, 1923.

177,326. PAINT, VARNISH, AND CALCIMINE BRUSHES. HANLON & GOODMAN CO., New York, N. Y.
Filed April 17, 1923. Serial No. 179,268. PUBLISHED OCTOBER 2, 1923.

177,327. SOFT DRINKS AND SIRUPS. THE GOOD-GRAPE COMPANY, Chattanooga, Tenn.
Filed April 7, 1923. Serial No. 178,720. PUBLISHED OCTOBER 2, 1923.

177,328. BUTTER. NICKEL & DRUMMEY, Chicago, Ill.
Filed April 5, 1923. Serial No. 178,624. PUBLISHED SEPTEMBER 25, 1923.

177,329. SIRUP FOR FOOD PURPOSES. CORN PRODUCTS REFINING COMPANY, New York, N. Y.
Filed April 5, 1923. Serial No. 178,596. PUBLISHED OCTOBER 2, 1923.

177,330. SIRUP FOR FOOD PURPOSES. CORN PRODUCTS REFINING COMPANY, New York, N. Y.
Filed April 5, 1923. Serial No. 178,595. PUBLISHED OCTOBER 2, 1923.

177,331. SIRUP FOR FOOD PURPOSES. CORN PRODUCTS REFINING COMPANY, New York, N. Y.
Filed April 5, 1923. Serial No. 178,594. PUBLISHED OCTOBER 2, 1923.

177,332. SIRUP FOR FOOD PURPOSES. CORN PRODUCTS REFINING COMPANY, New York, N. Y.
Filed April 5, 1923. Serial No. 178,593. PUBLISHED OCTOBER 2, 1923.

177,333. PUBLICATIONS TO BE PUBLISHED AT IRREGULAR INTERVALS. AMBROSE BOWYER, Chicago, Ill.
Filed June 8, 1923. Serial No. 181,669. PUBLISHED SEPTEMBER 25, 1923.

177,334. MALT SIRUPS FOR BEVERAGE PURPOSES. WILLIAM GRAF, doing business as Southwark Beverage & Products Co., Philadelphia, Pa.
Filed June 1, 1923. Serial No. 181,443. PUBLISHED OCTOBER 2, 1923.

177,335. TEXTILE FABRICS—NAMELY, PIECE GOODS OF CAMEL'S HAIR, BLANKETS, COVERS, AND RUGS. SCHWEIZ. DECKEN- UND TUCHFABRIKEN PFUNGEN-TURRENTHAL, Zurich, Switzerland.
Filed June 5, 1923. Serial No. 181,571. PUBLISHED SEPTEMBER 25, 1923.

177,336. POTATOES IN NATURAL STATE. EMIL KAHN, doing business as E. Kahn & Company, Chicago, Ill.
Filed June 7, 1923. Serial No. 181,640. PUBLISHED OCTOBER 2, 1923.

177,337. PHOTOGRAPHS. GABRED & KRAUSE DRUG CO., Walla Walla, Wash.
Filed May 31, 1923. Serial No. 181,390. PUBLISHED OCTOBER 2, 1923.

177,338. PERIODICALS ISSUED MONTHLY. THE OLYMPIC CLUB, San Francisco, Calif.
Filed May 26, 1923. Serial No. 181,206. PUBLISHED SEPTEMBER 25, 1923.

177,339. SOFT DRINKS. PABST CORPORATION, Milwaukee, Wis.
Filed May 26, 1923. Serial No. 181,210. PUBLISHED OCTOBER 2, 1923.

177,340. TABLE WATER AND SOFT DRINKS. PABST CORPORATION, Milwaukee, Wis.
Filed May 26, 1923. Serial No. 181,215. PUBLISHED OCTOBER 2, 1923.

177,341. DRIED SHRIMP. BLUM & BERGERON, Houma, La.
Filed May 26, 1923. Serial No. 181,168. PUBLISHED OCTOBER 2, 1923.

177,342. SILK PIECE GOODS. EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y.
Filed May 26, 1923. Serial No. 181,177. PUBLISHED SEPTEMBER 25, 1923.

177,343. SERIES OF CARTOONS. THE BELL SYNDICATE, INC., New York, N. Y.
Filed May 26, 1923. Serial No. 181,166. PUBLISHED SEPTEMBER 25, 1923.

177,344. MAGAZINE PUBLISHED MONTHLY. NATIONAL SCHOOL SUPPLY ASSOCIATION, Chicago, Ill.
Filed May 24, 1923. Serial No. 181,085. PUBLISHED OCTOBER 2, 1923.

177,345. ADHESIVE PRINTED LABELS. INDUSTRIAL ENGINEERING RESEARCH CO., New York, N. Y.
Filed May 24, 1923. Serial No. 181,076. PUBLISHED SEPTEMBER 25, 1923.

177,346. SERIES OF CARTOONS. FRANCIS J. GAUDÉ, Port Allen, La.
Filed May 24, 1923. Serial No. 181,069. PUBLISHED OCTOBER 2, 1923.

177,347. WOMEN'S DRESSES AND APRONS, CHILDREN'S DRESSES AND APRONS; LADIES' AND CHILDREN'S HOSIERY, SWEATERS, AND UNIFORMS, AND WOMEN'S KNIT AND SILK UNDERWEAR. MILTON G. COOPER DRY GOODS CO., Los Angeles, Calif.
Filed May 19, 1923. Serial No. 180,844. PUBLISHED OCTOBER 2, 1923.

177,348. HOSIERY. CHARLES F. BERG, Portland, Oreg.
Filed May 19, 1923. Serial No. 180,833. PUBLISHED OCTOBER 2, 1923.

177,349. UMBRELLAS AND PARASOLS. GUSTAVES BERMAN, New York, N. Y.
Filed May 19, 1923. Serial No. 180,834. PUBLISHED OCTOBER 2, 1923.

177,350. DOLLS. PEARL P. GOERDELER, Brooklyn, N. Y.
Filed May 12, 1923. Serial No. 180,536. PUBLISHED OCTOBER 2, 1923.

177,351. PUBLICATION ISSUED MONTHLY ADVERTISING THE PRODUCTS OF THE WHOLESALE DRUGGIST TRADE. BENJAMIN MINDLIN, Jamaica, N. Y.
Filed May 14, 1923. Serial No. 180,614. PUBLISHED OCTOBER 2, 1923.

177,352. CANDIES. JOHN B. ARATA, JR., INC., Philadelphia, Pa.
Filed May 12, 1923. Serial No. 180,515. PUBLISHED SEPTEMBER 11, 1923.

177,353. BUILDING PLANS AND DESIGNS. RALEIGH JAMES HUGHES, Greensboro, N. C.
Filed June 14, 1923. Serial No. 181,992. PUBLISHED OCTOBER 2, 1923.

177,354. TABLE SALT. INTERNATIONAL SALT COMPANY, INC., New York, N. Y.
Filed June 13, 1923. Serial No. 181,948. PUBLISHED SEPTEMBER 25, 1923.

177,355. MONTHLY PUBLICATION. MODERN CONFECTIONER PUBLISHING COMPANY, Chicago, Ill.
Filed June 13, 1923. Serial No. 181,957. PUBLISHED SEPTEMBER 25, 1923.

177,356. TREE AND PLANT SPRAY SOLUTIONS. THE SULPHO-NAPTHOL COMPANY, Boston, Mass.
Filed June 13, 1923. Serial No. 181,964. PUBLISHED SEPTEMBER 25, 1923.

177,357. INTERNAL AND INJECTIVE REMEDIES FOR GONORRHEA. A. L. CURTIS, Atlanta, Ga.
Filed June 14, 1923. Serial No. 181,981. PUBLISHED SEPTEMBER 25, 1923.

177,358. PREPARATION FOR THE PREVENTION AND TREATMENT OF OBESITY. THE GOTHAM CORPORATION, New York, N. Y.
Filed June 12, 1923. Serial No. 181,887. PUBLISHED SEPTEMBER 25, 1923.

177,359. HAIR TONIC. INDIABOOT COMPANY, Chicago, Ill.
Filed June 12, 1923. Serial No. 181,896. PUBLISHED SEPTEMBER 25, 1923.

177,360. NONALCOHOLIC PREPARATION FOR RELIEVING DYSPEPSIA, INDIGESTION, HEARTBURN, SOUR STOMACH, BELCHING OF GAS, AND ACIDITY OF THE STOMACH. CHARLES LINAHAN, Troy, Mo.
Filed June 12, 1923. Serial No. 181,900. PUBLISHED SEPTEMBER 25, 1923.

177,361. TABLE SALT. INTERNATIONAL SALT COMPANY, INC., New York, N. Y.
Filed June 13, 1923. Serial No. 181,947. PUBLISHED SEPTEMBER 25, 1923.

177,362. GARMENTS FOR WOMEN—NAMELY, CLOAKS, SUITS, WRAPS, CAPES, AND COATS. PENNSYLVANIA TEXTILE MILLS, INC., Glen Riddle, Pa., and New York, N. Y.
Filed June 11, 1923. Serial No. 181,862. PUBLISHED OCTOBER 2, 1923.

177,363. TALCUM POWDER. THE REMILLER CO., New York, N. Y.
Filed June 11, 1923. Serial No. 181,866. PUBLISHED SEPTEMBER 25, 1923.

177,364. PREPARATION FOR DRESSING THE HAIR. SILGER LABORATORIES, Buffalo, N. Y.
Filed June 11, 1923. Serial No. 181,869. PUBLISHED SEPTEMBER 25, 1923.

177,365. COOKIES, CAKES, AND CRACKERS. J. S. IVINS' SON, INC., Philadelphia, Pa.
Filed June 9, 1923. Serial No. 181,749. PUBLISHED OCTOBER 2, 1923.

177,366. COTTON AND LINEN PIECE GOODS, AND TOWELING. THE CARL COMPANY, Schenectady, N. Y.
Filed June 11, 1923. Serial No. 181,813. PUBLISHED SEPTEMBER 25, 1923.

177,367. TOILET CREAM AND VANISHING CREAM. DAVIS & LAWRENCE CO., New York, N. Y.
Filed June 11, 1923. Serial No. 181,821. PUBLISHED SEPTEMBER 25, 1923.

177,368. FUDGE BARS OR ROLLS. REUBEN W. LOVERING, doing business as Lovering Candy Company, St. Paul, Minn.
Filed June 11, 1923. Serial No. 181,837. PUBLISHED SEPTEMBER 25, 1923.

177,369. SIRUPS FOR SOFT DRINKS. NORTHWESTERN BAKERS & CONFECTIONERS CO., Minneapolis, Minn.
Filed June 11, 1923. Serial No. 181,856. PUBLISHED OCTOBER 2, 1923.

177,370. SOFT DRINK. CANTRELL & COCHRANE, LIMITED, Dublin, Ireland.
Filed June 8, 1923. Serial No. 181,672. PUBLISHED OCTOBER 2, 1923.

177,371. SUGAR. FLAMINGO SUGAR MILLS, INC., Philadelphia, Pa.
Filed June 8, 1923. Serial No. 181,687. PUBLISHED OCTOBER 2, 1923.

177,372. WEEKLY PUBLICATION. THE BRAGDON, LORD & NAGLE CO., New York, N. Y.
Filed June 9, 1923. Serial No. 181,726. PUBLISHED OCTOBER 2, 1923.

177,373. PRETZELS. D. F. STAUFFER BISCUIT CO. INC., York, Pa.
Filed May 19, 1923. Serial No. 180,903. PUBLISHED SEPTEMBER 25, 1923.

177,374. CLEANSER FOR ARTIFICIAL TEETH. FRED REISS, doing business as Paramount Specialty Co., Louisville, Ky.
Filed May 19, 1923. Serial No. 180,891. PUBLISHED SEPTEMBER 25, 1923.

177,375. DRIED FRUITS. GILE & JENKS, Salem, Oreg.
Filed May 19, 1923. Serial No. 180,858. PUBLISHED SEPTEMBER 25, 1923.

177,376. TEXTILE ARTICLES—NAMELY, HOSIERY. BEAR BRAND HOSIERY CO., Chicago, Ill.
Filed May 26, 1923. Serial No. 181,165. PUBLISHED OCTOBER 9, 1923.

177,377. RAZORS, RAZOR BLADES, SAFETY RAZORS, AND SAFETY-RAZOR BLADES. AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y.
Filed May 25, 1923. Serial No. 181,101. PUBLISHED OCTOBER 2, 1923.

177,378. MEN'S TEXTILE-FABRIC UNDERWEAR UNION SUIT. CLAIR G. WRIGHT, Kansas City, Mo.
Filed May 24, 1923. Serial No. 181,097. PUBLISHED OCTOBER 2, 1923.

177,379. MIXED FEED FOR CATTLE. EASTERN STATES FARMERS' EXCHANGE, Springfield, Mass.
Filed June 18, 1923. Serial No. 182,142. PUBLISHED OCTOBER 2, 1923.

177,380. DRY, READY-MIXED, AND PASTE PAINTS; PAINT ENAMELS, VARNISHES, STAINS, PAINT AND VARNISH REMOVERS. THE THOMSON WOOD FINISHING CO., Philadelphia, Pa.
Filed June 11, 1923. Serial No. 181,873. PUBLISHED OCTOBER 2, 1923.

177,381. CHEESE. CARL MARTY & COMPANY, Chicago, Ill.
Filed June 12, 1923. Serial No. 181,904. PUBLISHED OCTOBER 2, 1923.

177,382. CERTAIN ARTICLES OF CLOTHING. NEW CASTLE NOTION COMPANY, New Castle, Pa.
Filed June 12, 1923. Serial No. 181,905. PUBLISHED OCTOBER 2, 1923.

177,383. CHEESE. A. H. BARBER & CO., Chicago, Ill., and Plymouth and Dodgeville, Wis.
Filed June 15, 1923. Serial No. 182,040. PUBLISHED OCTOBER 2, 1923.

177,384. CHEESE. A. H. BARBER & CO., Chicago, Ill., and Plymouth and Dodgeville, Wis.
Filed June 15, 1923. Serial No. 182,042. PUBLISHED OCTOBER 2, 1923.

177,385. PAINT AND VARNISH REMOVERS. CONSOLVO MANUFACTURING CO., INC., South Norfolk, Va.
Filed June 2, 1923. Serial No. 181,475. PUBLISHED OCTOBER 2, 1923.

177,386. DENTAL TOOLS, INSTRUMENTS, AND SUPPLIES. DETROIT DENTAL MANUFACTURING COMPANY, Detroit, Mich.
Filed June 6, 1923. Serial No. 181,592. PUBLISHED OCTOBER 2, 1923.

177,387. REELS FOR HOSE AND THE LIKE. THE AMERICAN FORK & HOE COMPANY, Cleveland, Ohio.
Filed June 9, 1923. Serial No. 181,714. PUBLISHED OCTOBER 2, 1923.

177,388. BUTTER. RUGBY CREAMERY, Rugby, N. Dak.
Filed June 9, 1923. Serial No. 181,779. PUBLISHED OCTOBER 2, 1923.

177,389. CANNED FRUITS, VEGETABLES, AND FISH. SOUTH CHICAGO WHOLESALE GROCERY AND PRODUCE COMPANY, INC., South Chicago, Ill.
Filed June 9, 1923. Serial No. 181,784. PUBLISHED OCTOBER 9, 1923.

177,390. SAFETY PINS. W. T. GRANT COMPANY, New York, N. Y.
Filed June 11, 1923. Serial No. 181,829. PUBLISHED OCTOBER 2, 1923.

177,391. LOOSE-LEAF BINDERS. AUGUST B. PLUSHKELL, doing business as Flatopn Binder Company, Los Angeles, Calif.
Filed June 11, 1923. Serial No. 181,864. PUBLISHED OCTOBER 2, 1923.

177,392. WOMEN'S MUSLIN UNDERWEAR. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed May 28, 1923. Serial No. 181,267. PUBLISHED OCTOBER 2, 1923.

177,393. BODY POLISH, TOP DRESSING IN THE NATURE OF A PAINT, AND PAINT ENAMEL. GEORGE ALEX. CERNY, doing business as Autol Scientific Laboratories, Chicago, Ill.
Filed May 29, 1923. Serial No. 181,338. PUBLISHED OCTOBER 2, 1923.

177,394. GRASS CATCHERS. CANVAS PRODUCTS COMPANY, St. Louis, Mo.
Filed May 31, 1923. Serial No. 181,376. PUBLISHED OCTOBER 2, 1923.

177,395. GOLD AND BRONZE LEAF. RALPH W. GRAUERT, New York, N. Y.
Filed May 31, 1923. Serial No. 181,391. PUBLISHED OCTOBER 2, 1923.

177,396. BRAID, BRAIDED TAPES, ELASTIC LACES, SHOE LACES, ELASTIC WEB, AND ELASTIC BRAID. ARCH NARROW FABRIC COMPANY, Auburn, R. I.
Filed June 2, 1923. Serial No. 181,470. PUBLISHED OCTOBER 2, 1923.

177,397. HAIR WAVERS. MCCONNELL MANUFACTURING COMPANY, Newark, N. J.
Filed May 26, 1923. Serial No. 181,204. PUBLISHED OCTOBER 2, 1923.

177,398. HOG FEED AND MEAL. UNITED CHEMICAL AND ORGANIC PRODUCTS CO., Chicago, Ill.
Filed June 18, 1923. Serial No. 182,191. PUBLISHED OCTOBER 2, 1923.

177,399. ICE CREAM. HANSELMAN CANDY COMPANY, Kalamazoo, Mich.
Filed February 20, 1922. Serial No. 159,580. PUBLISHED OCTOBER 2, 1923.

177,400. POCKETKNIVES, KITCHEN KNIVES, SHEARS, SCISSORS, SMALL TWEEZERS IN THE NATURE OF TOOLS, RAZOR BLADES, RAZORS, RAZOR-BLADE SHARPENERS. MAC LEAN DRUG COMPANY, Chicago, Ill.
Filed April 7, 1923. Serial No. 178,756. PUBLISHED OCTOBER 2, 1923.

177,401. CAVIAR. SAMUEL ROSENBERG, doing business as Phenix Packing Co., New York, N. Y.
Filed March 30, 1923. Serial No. 178,361. PUBLISHED AUGUST 7, 1923.

177,402. SPORT AND OUTING DRESSES AND SUITS FOR CHILDREN, GIRLS, MISSES, AND WOMEN. SOLOMON MFG. CO., St. Louis, Mo.
Filed March 24, 1923. Serial No. 178,006. PUBLISHED OCTOBER 2, 1923.

177,403. HOSIERY. JOHN W. HADFIELD CO., Philadelphia, Pa.
Filed April 27, 1923. Serial No. 179,791. PUBLISHED OCTOBER 9, 1923.

177,404. OVERCOATS AND SUITS. L. & M. SYSTEM CLOTHES, INC., New York, N. Y.
Filed April 26, 1923. Serial No. 179,733. PUBLISHED OCTOBER 9, 1923.

177,405. CERTAIN NAMED TOOLS. THE STANLEY WORKS, New Britain, Conn.
Filed April 20, 1923. Serial No. 179,432. PUBLISHED OCTOBER 2, 1923.

177,406. MEN'S AND BOYS' WORK SHIRTS AND CHILDREN'S BLOUSES AND PLAY SUITS. THE NOTTAGE COMPANY, Los Angeles, Calif.
Filed April 20, 1923. Serial No. 179,422. PUBLISHED OCTOBER 2, 1923.

177,407. POWDERED POLISH FOR AUTOMOBILE BODIES AND OTHER PAINTED AND VARNISHED SURFACES. WERNER CHARLES TAUCH, doing business as Popular Products Company, San Antonio, Tex.
Filed April 14, 1923. Serial No. 179,171. PUBLISHED OCTOBER 2, 1923.

177,408. PLUMBING AND OTHER SUPPLIES. THE DONLEY BROTHERS COMPANY, Cleveland, Ohio.
Filed April 9, 1923. Serial No. 178,829. PUBLISHED OCTOBER 2, 1923.

177,409. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, AND SLIPPERS MADE OF LEATHER, RUBBER, OR FABRIC, AND HOSIERY. GEBS BOOT SHOP, Pittsburgh, Pa.
Filed May 4, 1923. Serial No. 180,174. PUBLISHED OCTOBER 2, 1923.

177,410. CERTAIN NAMED CLOTHING. HERCULES KNITTING CO., Milwaukee, Wis.
Filed May 3, 1923. Serial No. 180,120. PUBLISHED OCTOBER 2, 1923.

177,411. MEN'S DRESS AND NEGLIGEE SHIRTS. STETSON SHIRT CO. INC., New York, N. Y.
Filed April 27, 1923. Serial No. 179,834. PUBLISHED OCTOBER 2, 1923.

177,412. CHEMICAL PREPARATION FOR APPLICATION TO THE WINDSHIELDS OF AUTOMOBILES TO PREVENT RAIN OR MIST FROM OBSTRUCTING THE DRIVER'S VIEW. FORDYCE & JACKSON, Bedford, Ind.
Filed May 17, 1923. Serial No. 180,756. PUBLISHED SEPTEMBER 25, 1923.

177,413. RAIL ANCHORS OR ANTICREEPERS. THE P. & M. COMPANY, Chicago, Ill.
Filed May 5, 1923. Serial No. 180,238. PUBLISHED OCTOBER 2, 1923.

177,414. GREETING CARDS, GREETING SHEETS, AND GREETING FOLDERS. OCTAVIA WALTON GOODBAR, doing business as Octavia Walton, Boston, Mass.
Filed July 8, 1922. Serial No. 166,595. PUBLISHED SEPTEMBER 25, 1923.

177,415. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. RÖHM & HAAS AKTIENGESELLSCHAFT, Darmstadt, Germany.
Filed June 22, 1922. Serial No. 165,888. PUBLISHED SEPTEMBER 25, 1923.

177,416. SOFT DRINKS. WALTER P. POWERS, Chicago, Ill.
Filed June 21, 1922. Serial No. 165,809. PUBLISHED OCTOBER 2, 1923.

177,417. WINE. SOCIETE VINICOLE DE CHAMPAGNE, Paris, France.
Filed June 8, 1922. Serial No. 165,215. PUBLISHED OCTOBER 2, 1923.

177,418. LARD. E. GODEL & SONS, Peoria, Ill.
Filed June 16, 1922. Serial No. 165,586. PUBLISHED OCTOBER 2, 1923.

177,419. WINE. SOCIETE VINICOLE DE CHAMPAGNE, Paris, France.
Filed June 8, 1922. Serial No. 165,211. PUBLISHED AUGUST 14, 1923.

177,420. CERTAIN NAMED MEDICINAL PREPARATIONS. M. A. LONDON, doing business as National Remedies Company, San Francisco, Calif.
Filed May 24, 1922. Serial No. 164,441. PUBLISHED SEPTEMBER 25, 1923.

177,421. CERTAIN NAMED TOYS. THE GONG BELL MANUFACTURING COMPANY, East Hampton, Conn.
Filed June 8, 1922. Serial No. 165,190. PUBLISHED OCTOBER 2, 1923.

177,422. LUBRICATING OILS AND GREASES. JOSIAH G. PHILLIPS, doing business as World Refining Company, Easton, Pa.
Filed March 2, 1922. Serial No. 160,080. PUBLISHED SEPTEMBER 19, 1922.

177,423. LAUNDRY BLUE. RECKITTS (U. S. A.), LTD., New York, N. Y., and New Brunswick, N. J.
Filed April 11, 1922. Serial No. 162,137. PUBLISHED SEPTEMBER 25, 1923.

177,424. A CERTAIN NAMED OINTMENT. THE NATIONAL PHYSICIANS SUPPLY COMPANY, doing business as Co-Wede Laboratory, Cincinnati, Ohio.
Filed April 24, 1922. Serial No. 162,846. PUBLISHED SEPTEMBER 25, 1923.

177,425. COTTON PIECE GOODS. PASSAIC PRINT WORKS, Passaic, N. J.
Filed December 7, 1921. Serial No. 156,412. PUBLISHED SEPTEMBER 18, 1923.

177,426. FLAVORING FOR SOFT DRINKS. DAVIES, ROSE & CO., LTD., Boston, Mass.
Filed December 9, 1921. Serial No. 156,480. PUBLISHED OCTOBER 2, 1923.

177,427. CONDENSED MILK. NESTLÉ & ANGLO-SWISS CONDENSED MILK CO., Cham and Vevey, Switzerland.
Filed January 7, 1922. Serial No. 157,629. PUBLISHED SEPTEMBER 18, 1923.

177,428. FLOOR MOPS, HAND DUSTERS, FLOOR BRUSHES, WALL DUSTERS. THE U. S. MOP COMPANY, INC., Toledo, Ohio.
Filed July 8, 1921. Serial No. 150,170. PUBLISHED OCTOBER 2, 1923.

177,429. CERTAIN NAMED SMOKERS' ARTICLES. GORHAM MANUFACTURING COMPANY, Providence, R. I.
Filed August 27, 1921. Serial No. 152,246. PUBLISHED SEPTEMBER 25, 1923.

177,430. MERRY-GO-ROUND. OXFORD-PRINT, Boston, Mass.
Filed March 2, 1921. Serial No. 144,246. PUBLISHED OCTOBER 2, 1923.

177,431. TRACKS FOR TOY ELECTRICAL TRAINS. THE LIONEL CORPORATION, New York, N. Y.
Filed March 5, 1921. Serial No. 144,330. PUBLISHED OCTOBER 2, 1923.

177,432. CRACKERS AND BISCUIT. F. L. JONES CO., Bangor, Me.
Filed April 29, 1919. Serial No. 117,980. PUBLISHED SEPTEMBER 25, 1923.

177,433. ELECTRIC LAMPS AND RADIATORS FOR THERAPEUTIC USE. LEOPOLD STEINER, New York, N. Y.
Filed November 29, 1919. Serial No. 125,441. PUBLISHED APRIL 13, 1920.

177,434. HEADING FOR A HUMOR COLUMN SYNDICATED TO BOTH WEEKLY AND DAILY NEWSPAPERS THROUGHOUT AMERICA AS WELL AS HOUSE ORGANS, TRADE JOURNALS, MAGAZINES, AND OTHER PERIODICALS. EDGAR ALLAN MOSS, Marion, Ind.
Filed June 29, 1923. Serial No. 182,602. PUBLISHED SEPTEMBER 25, 1923.

177,435. SOFT DRINKS. FLORIDA PRODUCTS COMPANY, INC., New York, N. Y.
Filed June 27, 1923. Serial No. 182,506. PUBLISHED OCTOBER 2, 1923.

177,436. DUSTING CLOTHS. ECONOMY WIPING MATERIALS CO., INC., New York, N. Y.
Filed June 26, 1923. Serial No. 182,468. PUBLISHED OCTOBER 2, 1923.

177,437. HAIR NETS. ISADORE TROTSKY, doing business as Sanitary Hair Company, Providence, R. I.
Filed June 25, 1923. Serial No. 182,452. PUBLISHED SEPTEMBER 25, 1923.

177,438. ARTIFICIAL SILK IN THE PIECE. R. H. MACY & CO., INC., New York, N. Y.
Filed June 21, 1923. Serial No. 182,314. PUBLISHED SEPTEMBER 25, 1923.

177,439. POWDER PUFFS. MONARCH SPECIALTY MANUFACTURING CO., New York, N. Y.
Filed June 20, 1923. Serial No. 182,255. PUBLISHED OCTOBER 2, 1923.

177,440. FRESH CITROUS FRUITS. MUPU CITRUS ASSOCIATION, Santa Paula, Calif.
Filed June 18, 1923. Serial No. 182,171. PUBLISHED OCTOBER 2, 1923.

177,441. WINDOW GLASS, GLARE SHIELDS OF GLASS. THOMA & SON INC., Fairfield, Iowa.
Filed June 18, 1923. Serial No. 182,188. PUBLISHED SEPTEMBER 25, 1923.

177,442. BREAD. HILLSDALE BAKING COMPANY, Hillsdale, Mich.
Filed June 18, 1923. Serial No. 182,149. PUBLISHED OCTOBER 2, 1923.

177,443. BREAD. HILLSDALE BAKING COMPANY, Hillsdale, Mich.
Filed June 18, 1923. Serial No. 182,150. PUBLISHED OCTOBER 2, 1923.

177,444. FRESH CITROUS FRUITS. MUPU CITRUS ASSOCIATION, Santa Paula, Calif.
Filed June 18, 1923. Serial No. 182,169. PUBLISHED OCTOBER 2, 1923.

177,445. CIGARS. TAMPA CIGAR COMPANY, Tampa, Fla.
Filed June 16, 1923. Serial No. 182,116. PUBLISHED OCTOBER 2, 1923.

177,446. CERTAIN NAMED SPORTING GOODS. EUGENE BYRNES, Carmel, Calif.
Filed June 18, 1923. Serial No. 182,130. PUBLISHED OCTOBER 2, 1923.

177,447. MONTHLY MARINE PERIODICAL. THE PENTON PUBLISHING COMPANY, Cleveland, Ohio.
Filed June 15, 1923. Serial No. 182,058. PUBLISHED SEPTEMBER 25, 1923.

177,448. CIGARS. TAMPA CIGAR COMPANY, Tampa, Fla.
Filed June 16, 1923. Serial No. 182,115. PUBLISHED OCTOBER 2, 1923.

177,449. CERTAIN NAMED PERIODICAL. SUTTON & DARRYSHIRE, INCORPORATED, Philadelphia, Pa.
Filed June 14, 1923. Serial No. 182,020. PUBLISHED SEPTEMBER 25, 1923.

177,450. LIQUID HAIR TONIC. FELIX V. GRECO, doing business as The Hairvita Hair Tonic Co., Philadelphia, Pa.
Filed June 15, 1923. Serial No. 182,051. PUBLISHED SEPTEMBER 25, 1923.

177,451. TWIST AND PLUG TOBACCO. ROTH TOBACCO COMPANY, Cape Girardeau, Mo.
Filed June 14, 1923. Serial No. 182,007. PUBLISHED OCTOBER 2, 1923.

177,452. MALT EXTRACT. PAUL H. SCHWARTZ, doing business as Bob-o-Link Products Co., Baltimore, Md.
Filed June 14, 1923. Serial No. 182,013. PUBLISHED OCTOBER 2, 1923.

177,453. TWIST AND PLUG TOBACCO. ROTH TOBACCO COMPANY, Cape Girardeau, Mo.
Filed June 14, 1923. Serial No. 182,006. PUBLISHED OCTOBER 2, 1923.

177,454. PERFUMES AND TOILET WATERS. PAUL POIRET, doing business as Les Parfums de Rosine, Paris, France.
Filed April 2, 1923. Serial No. 178,467. PUBLISHED SEPTEMBER 25, 1923.

177,455. PERFUMES AND TOILET WATERS. PAUL POIRET, doing business as Les Parfums de Rosine, Paris, France.
Filed April 2, 1923. Serial No. 178,468. PUBLISHED SEPTEMBER 25, 1923.

177,456. SOFT DRINKS. C. EDWARD MAY, doing business as Crown Bottling Works, Baltimore, Md.
Filed March 30, 1923. Serial No. 178,347. PUBLISHED OCTOBER 2, 1923.

177,457. HAIR TONIC. L. S. BEAVER, Vinita, Okla.
Filed March 31, 1923. Serial No. 178,374. PUBLISHED SEPTEMBER 25, 1923.

177,458. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. THE JETT & WOOD MERCANTILE COMPANY, Wichita, Kans.
Filed March 29, 1923. Serial No. 178,253. PUBLISHED OCTOBER 2, 1923.

177,459. CIGARS. HAVANA CIGAR AND TOBACCO FACTORIES, LTD., New York, N. Y.
Filed March 24, 1923. Serial No. 177,970. PUBLISHED OCTOBER 2, 1923.

177,460. RUG RACKS. FRANK MICHELBACH, Alexandria, Va.
Filed March 17, 1923. Serial No. 177,613. PUBLISHED SEPTEMBER 25, 1923.

177,461. CIGARS. HAVANA CIGAR AND TOBACCO FACTORIES, LTD., New York, N. Y.
Filed March 24, 1923. Serial No. 177,969. PUBLISHED OCTOBER 2, 1923.

177,462. SCOTCH WHISKY. WM. GRANT & SONS, LTD., Dufftown, Scotland.
Filed March 10, 1923. Serial No. 177,222. PUBLISHED OCTOBER 2, 1923.

177,463. HAIR DRESSING. ADOLF J. KLEIS, doing business as Sheik Toilet Products Company, Chicago, Ill.
Filed March 14, 1923. Serial No. 177,444. PUBLISHED SEPTEMBER 25, 1923.

177,464. TOILET ARTICLES. GER-LE LABORATORIES, Chicago, Ill.
Filed February 21, 1923. Serial No. 176,403. PUBLISHED SEPTEMBER 25, 1923.

177,465. COTTON PIECE GOODS. DOPTOGLOU BROS. OF NEW YORK, New York, N. Y.
Filed March 7, 1923. Serial No. 177,079. PUBLISHED SEPTEMBER 25, 1923.

177,466. DYED, PRINTED, AND FINISHED TEXTILE FABRICS. UNITED PIECE DYE WORKS, Lodi, N. J.
Filed March 8, 1923. Serial No. 177,152. PUBLISHED SEPTEMBER 25, 1923.

177,467. SCOTCH WHISKY. WM. GRANT & SONS, LTD., Dufftown, Scotland.
Filed March 10, 1923. Serial No. 177,221. PUBLISHED OCTOBER 2, 1923.

177,468. MOPS. GLENCO PRODUCTS COMPANY, Quincy, Ill.
Filed February 17, 1923. Serial No. 176,175. PUBLISHED OCTOBER 2, 1923.

177,469. CERTAIN TOILET ARTICLES. BARR MANUFACTURING CORPORATION, Tyrone, Pa.
Filed February 16, 1923. Serial No. 176,107. PUBLISHED SEPTEMBER 25, 1923.

177,470. ELECTRICALLY-EQUIPPED SERVING TABLE. NICHOLS ELECTRIC FURNITURE CO., Bennington, Vt.
Filed February 6, 1923. Serial No. 175,623. PUBLISHED OCTOBER 2, 1923.

177,471. PUBLICATION ON THE CORRECTION OF STAMMERING. SAMUEL D. ROBBINS, Boston, Mass.
Filed February 5, 1923. Serial No. 175,568. PUBLISHED SEPTEMBER 25, 1923.

177,472. TOILET PREPARATIONS. THE MILLS BROTHERS COMPANY, doing business as The American Products Company, Cincinnati, Ohio.
Filed January 30, 1923. Serial No. 175,316. PUBLISHED SEPTEMBER 25, 1923.

177,473. PERFUME, TOILET WATER, TALCUM POWDER, COLD CREAM, VANISHING CREAM, FACE POWDER, AND SACHET POWDER. THE MILLS BROTHERS COMPANY, doing business as The American Products Company, Cincinnati, Ohio.
Filed January 30, 1923. Serial No. 175,318. PUBLISHED SEPTEMBER 25, 1923.

177,474. UMBRELLA AND PARASOL RIBS. S. W. EVANS & SON, Philadelphia, Pa.
Filed August 27, 1923. Serial No. 185,010. PUBLISHED OCTOBER 2, 1923.

177,475. COTTON YARNS. JOHN F. STREET & CO., Providence, R. I.
Filed August 6, 1923. Serial No. 184,152. PUBLISHED SEPTEMBER 25, 1923.

177,476. UMBRELLA AND PARASOL RIBS. S. W. EVANS & SON, Philadelphia, Pa.
Filed August 27, 1923. Serial No. 185,009. PUBLISHED OCTOBER 2, 1923.

177,477. SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed July 16, 1923. Serial No. 183,262. PUBLISHED SEPTEMBER 25, 1923.

177,478. DOLLS. ALMA P. HICKMAN, Joplin, Mo.
Filed July 18, 1923. Serial No. 183,382. PUBLISHED OCTOBER 2, 1923.

177,479. TOY COASTER VEHICLES. WYOMING TOY MFG. CO., Wilkes-Barre, Pa.
Filed July 19, 1923. Serial No. 183,462. PUBLISHED OCTOBER 2, 1923.

177,480. COTTON PIECE GOODS. WILTON MANUFACTURING COMPANY, INC., New York, N. Y.
Filed July 27, 1923. Serial No. 183,787. PUBLISHED SEPTEMBER 18, 1923.

177,481. LINEN PIECE GOODS. J. A. FINN & COMPANY, New York, N. Y.
Filed July 14, 1923. Serial No. 183,207. PUBLISHED SEPTEMBER 25, 1923.

177,482. TEXTILE FABRICS KNOWN AS ALL-WORSTED TROPICALS. INTERNATIONAL WORSTED MILLS, Methuen, Mass., and New York, N. Y.
Filed July 14, 1923. Serial No. 183,214. PUBLISHED SEPTEMBER 25, 1923.

177,483. SILK AND SATIN PIECE GOODS. MCLANE SILK COMPANY, Turners Falls, Mass.
Filed July 14, 1923. Serial No. 183,221. PUBLISHED SEPTEMBER 25, 1923.

177,484. COTTON PIECE GOODS. BRUNE, POTTBERG & CO., New York, N. Y.
Filed July 14, 1923. Serial No. 183,192. PUBLISHED SEPTEMBER 25, 1923.

177,485. SHOE-SHINING KITS COMPRISING A BRUSH, CLOTH, AND DAUBER. F. F. DALLEY COMPANY, INC., Buffalo, N. Y.
Filed July 14, 1923. Serial No. 183,201. PUBLISHED OCTOBER 2, 1923.

177,486. DRY GOODS—NAMELY, LINEN AND COTTON CLOTHS AND WOOLEN BLANKETS. THE FARLEY HARVEY COMPANY, Boston, Mass.
Filed July 14, 1923. Serial No. 183,205. PUBLISHED SEPTEMBER 25, 1923.

177,487. CHENILLE RUGS. THE FIFTH CARPET COMPANY, New York and Firthcliffe, N. Y.
Filed July 13, 1923. Serial No. 183,142. PUBLISHED SEPTEMBER 25, 1923.

177,488. COTTON PIECE GOODS. BRUNE, POTTBERG & Co., New York, N. Y.
Filed July 14, 1923. Serial No. 183,188. PUBLISHED SEPTEMBER 25, 1923.

177,489. COTTON PIECE GOODS. BRUNE, POTTBERG & Co., New York, N. Y.
Filed July 14, 1923. Serial No. 183,191. PUBLISHED SEPTEMBER 25, 1923.

177,490. TITLE OF A QUARTERLY PUBLICATION. INTERNATIONAL WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y.
Filed July 9, 1923. Serial No. 182,973. PUBLISHED OCTOBER 2, 1923.

177,491. FISHLINES. OS-JACO BRAIDED LINE CO., Pawtucket, R. I.
Filed July 9, 1923. Serial No. 182,987. PUBLISHED OCTOBER 2, 1923.

177,492. SOFT DRINKS. MONADNOCK BEVERAGE COMPANY, Troy, N. H.
Filed July 12, 1923. Serial No. 183,118. PUBLISHED OCTOBER 2, 1923.

177,493. SOFT DRINKS. HO-JAY CORPORATION, Rochester, N. Y.
Filed July 5, 1923. Serial No. 182,812. PUBLISHED OCTOBER 2, 1923.

177,494. SILK, COTTON, AND MIXED GOODS IN THE PIECE. A. S. ROSENTHAL COMPANY, INC., New York, N. Y.
Filed July 7, 1923. Serial No. 182,933. PUBLISHED SEPTEMBER 25, 1923.

177,495. MONTHLY PUBLICATION. ALICE GRAM ROBINSON, Washington, D. C.
Filed July 2, 1923. Serial No. 182,719. PUBLISHED OCTOBER 2, 1923.

177,496. WHEAT FLOUR. KEHLOR FLOUR MILLS COMPANY, St. Louis, Mo.
Filed June 23, 1923. Serial No. 182,419. PUBLISHED OCTOBER 2, 1923.

177,497. WHEAT FLOUR. BLACK BROS. FLOUR MILLS, Beatrice, Nebr.
Filed June 25, 1923. Serial No. 182,396. PUBLISHED OCTOBER 2, 1923.

177,498. WHEAT FLOUR. WILLIS NORTON & CO., North Topeka, Kans.
Filed June 21, 1923. Serial No. 182,325. PUBLISHED OCTOBER 2, 1923.

177,499. CREPE PAPER. THE PAPYRUS COMPANY, Kenilworth, N. J.
Filed June 13, 1923. Serial No. 182,221. PUBLISHED SEPTEMBER 18, 1923.

177,500. FUR COLLARS AND FUR CUFFS. EDWARD KOLBERT & SONS, New York, N. Y.
Filed June 20, 1923. Serial No. 182,248. PUBLISHED OCTOBER 2, 1923.

177,501. KNIT AND WOVEN UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. THE MALINE MILLS COMPANY, Winston-Salem, N. C.
Filed June 20, 1923. Serial No. 182,252. PUBLISHED OCTOBER 9, 1923.

177,502. BREAD. WARD BAKING COMPANY, New York, N. Y.
Filed June 21, 1923. Serial No. 182,322. PUBLISHED OCTOBER 2, 1923.

177,503. LUBRICATING OILS AND LUBRICATING GREASES. INTER-STATE OIL COMPANY, Kansas City, Kans.
Filed November 28, 1923. Serial No. 139,971. PUBLISHED OCTOBER 2, 1923.

177,504. MILLING PRODUCTS—TO WIT, WHEAT FLOUR, PASTRY FLOUR, GRAHAM FLOUR, AND CORN MEAL. THE BEREA MILLING CO., Berea, Ohio.
Filed April 9, 1921. Serial No. 145,933. PUBLISHED APRIL 3, 1923.

177,505. TOILET SOAPS. J. SIMON & CIE., Lyon and Paris, France.
Filed July 21, 1921. Serial No. 150,772. PUBLISHED OCTOBER 2, 1923.

177,506. CERTAIN NOTIONS AND FURNISHINGS. THE WILLIAM PRYM COMPANY, LIMITED, Stolberg, Germany.
Filed June 3, 1921. Serial No. 148,617. PUBLISHED OCTOBER 2, 1923.

177,507. PURE MALT EXTRACT, A SIRUP FOR FOOD PURPOSES MADE FROM CHOICEST BARLEY MALT AND SOLD FOR HOME USE. PACIFIC MALT & HOP CO. INC., Brooklyn, N. Y.
Filed September 10, 1921. Serial No. 152,767. PUBLISHED SEPTEMBER 18, 1923.

177,508. WHEAT FLOUR. N. SAUER MILLING COMPANY, Cherryvale, Kans.
Filed October 4, 1921. Serial No. 153,787. PUBLISHED OCTOBER 2, 1923.

177,509. CLOTHING, CONSISTING OF MEN'S AND YOUTHS' SUITS, COATS, TROUSERS, VESTS, AND OVERCOATS. GOLITSKY, POSNER & HOCK, Bayonne, N. J.
Filed October 6, 1921. Serial No. 153,807. PUBLISHED MAY 16, 1922.

177,510. SOAP. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn.
Filed April 22, 1922. Serial No. 162,790. PUBLISHED SEPTEMBER 25, 1923.

177,511. VARNISH, STAINS, READY-MIXED, PASTE OR DRY FILLERS, AND PAINTS. LEONARD R. CARLEY, Watertown, Conn.
Filed March 13, 1922. Serial No. 160,588. PUBLISHED OCTOBER 2, 1923.

177,512. MANICURE IMPLEMENTS, SUCH AS NAIL FILES AND TWEEZERS. BERNARD WIGDER, doing business as The Wigder Manufacturing Co., Newark, N. J.
Filed February 15, 1922. Serial No. 159,341. PUBLISHED OCTOBER 2, 1923.

177,513. PROTECTIVE COMPOSITION IN THE NATURE OF A PAINT FOR ROOFS. ERNST ZOBEL COMPANY, INC., Brooklyn, N. Y.
Filed May 1, 1922. Serial No. 163,208. PUBLISHED OCTOBER 2, 1923.

177,514. FILLERS FOR POWER-TRANSMISSION PULLEYS. THE ROCKWOOD MANUFACTURING COMPANY, Indianapolis, Ind.
Filed April 29, 1922. Serial No. 163,113. PUBLISHED OCTOBER 2, 1923.

177,515. ICED CONFECTIONS. ICE POLES, INC., Boston, Mass.
Filed June 1, 1922. Serial No. 164,760. PUBLISHED OCTOBER 2, 1923.

177,516. BOND PAPER. J. J. MURPHY PAPER CO., INC., New York, N. Y.
Filed May 8, 1922. Serial No. 163,529. PUBLISHED SEPTEMBER 5, 1922.

177,517. WOMEN'S WEARING APPAREL, COMMONLY KNOWN AS KNICKERBOCKERS. SOLOMON MFG. Co., St. Louis, Mo.
Filed July 24, 1922. Serial No. 167,333. PUBLISHED SEPTEMBER 11, 1923.

177,518. MOTION-PICTURE FILMS ISSUED SERIALLY. RADIO-FILMS, INC., Hollywood, Calif.
Filed June 27, 1922. Serial No. 166,149. PUBLISHED OCTOBER 2, 1923.

177,519. WRITING PAPER AND MAILING ENVELOPES. CHAPIN & GOULD PAPER COMPANY, Springfield, Mass.
Filed September 5, 1922. Serial No. 169,052. PUBLISHED DECEMBER 12, 1922.

177,520. CHILDREN'S, MISSES', AND WOMEN'S WEARING APPAREL, COMMONLY KNOWN AS KNICKERBOCKERS. SOLOMON MFG. CO., St. Louis, Mo.
Filed July 31, 1922. Serial No. 167,663. PUBLISHED SEPTEMBER 4, 1923.

177,521. CANTALOUPES IN THEIR NATURAL STATE AND LETTUCE. SIDNEY MCHARG, Calexico, Calif.
Filed July 26, 1922. Serial No. 167,409. PUBLISHED OCTOBER 9, 1923.

177,522. WRITING PAPER, PRINTING PAPER, LEDGER PAPER, BOOK PAPER, AND BOND PAPER. CHICAGO PAPER COMPANY, Chicago, Ill.
Filed November 8, 1922. Serial No. 171,727. PUBLISHED OCTOBER 2, 1923.

177,523. HUMIDITY REGULATORS. PARKS-CRAMER COMPANY, Fitchburg, Mass.
Filed June 26, 1923. Serial No. 182,482. PUBLISHED AUGUST 28, 1923.

177,524. PICTURE-PROJECTION LAMPS AND PARTS THEREOF. JOSEPH TYROLER, New York, N. Y.
Filed June 27, 1923. Serial No. 182,524. PUBLISHED OCTOBER 2, 1923.

177,525. WAX FOR POLISHING FLOORS, FURNITURE, WOODWORK, LINOLEUM, AND AUTOMOBILES. ZOLA THOMPSON, doing business as Crystal Chemical Co., San Francisco, Calif.
Filed June 28, 1923. Serial No. 182,552. PUBLISHED OCTOBER 2, 1923.

177,526. HOSIERY, UNDERWEAR, SWEATER COATS, AND NEGLIGEE AND WORK SHIRTS. MORRIS, SLOAN, MORRIS & CO., Chicago, Ill.
Filed June 29, 1923. Serial No. 182,601. PUBLISHED OCTOBER 2, 1923.

177,527. WALL PAPER. ARROW PAINT & WALL PAPER COMPANY, Denver, Colo.
Filed June 30, 1923. Serial No. 182,643. PUBLISHED SEPTEMBER 11, 1923.

177,528. CHILDREN'S HOSIERY. "ONYX" HOSIERY INC., New York, N. Y.
Filed June 30, 1923. Serial No. 182,670. PUBLISHED OCTOBER 2, 1923.

177,529. PAPER USED FOR PRINTING OR LITHOGRAPHING BANK CHECKS AND OTHER INSTRUMENTS. D. D. MADDEN & CO., INC., Portland, Oreg.
Filed July 2, 1923. Serial No. 182,713. PUBLISHED OCTOBER 2, 1923.

177,530. WHEAT FLOUR. HECKER-JONES-JEWELL MILLING COMPANY, New York, N. Y.
Filed July 5, 1923. Serial No. 182,807. PUBLISHED OCTOBER 2, 1923.

177,531. BEVERAGE COOLERS. HO-JAY CORPORATION, Rochester, N. Y.
Filed July 5, 1923. Serial No. 182,811. PUBLISHED OCTOBER 2, 1923.

177,532. OVERALLS AND COATS. KING LOCKWOOD CO., Bristol, Tenn.
Filed July 5, 1923. Serial No. 182,827. PUBLISHED OCTOBER 2, 1923.

177,533. SUBSTITUTES FOR WHITE LEAD. FIRMA R. KRANENBURG, Groningen, Netherlands.
Filed July 9, 1923. Serial No. 182,977. PUBLISHED OCTOBER 2, 1923.

177,534. DRESS SHIELDS, ELASTIC WEBBING, AND SHIRRED ELASTIC RIBBON. A. STEIN & COMPANY, Chicago, Ill.
Filed July 9, 1923. Serial No. 183,004. PUBLISHED OCTOBER 2, 1923.

177,535. PENCIL CLIPS. AMERICAN LEAD PENCIL COMPANY, New York, N. Y.
Filed June 26, 1923. Serial No. 182,462. PUBLISHED OCTOBER 2, 1923.

177,536. CHILDREN'S DRESSES. B. ALTMAN & CO., New York, N. Y.
Filed August 4, 1923. Serial No. 184,051. PUBLISHED OCTOBER 9, 1923.

177,537. TRANSPARENT DRESSING FOR PAINTED AND VARNISHED SURFACES AND GLASS. JESS E. DABNER, Petaluma, Calif.
Filed July 31, 1923. Serial No. 183,873. PUBLISHED OCTOBER 2, 1923.

177,538. PACKAGES OF PAPER NAPKINS. THE PAPER NOVELTY COMPANY, Green Bay, Wis.
Filed July 26, 1923. Serial No. 183,717. PUBLISHED OCTOBER 2, 1923.

177,539. LUBRICATING OILS AND GREASES AND GASOLINE. JOHN LIPIN, doing business as Motor Go Oil Company, Millersville, Md.
Filed July 24, 1923. Serial No. 183,630. PUBLISHED OCTOBER 2, 1923.

177,540. DENTAL ALLOYS AND CEMENTS. DENTAL PROTECTIVE SUPPLY COMPANY, Chicago, Ill.
Filed July 21, 1923. Serial No. 183,519. PUBLISHED OCTOBER 2, 1923.

177,541. DRY, PASTE, AND READY-MIXED PAINTS, OIL COLORS, VARNISH, PAINT ENAMELS, PREPARED SHELLAC, FILLER, STAIN, LINSEED OIL, AND LINSEED-OIL SUBSTITUTE. ELBERT C. PECK, Los Angeles, Calif.
Filed July 20, 1923. Serial No. 183,499. PUBLISHED OCTOBER 2, 1923.

177,542. GEAR BLANKS AND GEAR WHEELS. DIAMOND STATE FIBRE COMPANY, Elsmere, Del., and Bridgeport, Pa.
Filed July 19, 1923. Serial No. 183,440. PUBLISHED OCTOBER 2, 1923.

177,543. GEAR BLANKS AND GEAR WHEELS. DIAMOND STATE FIBRE COMPANY, Elsmere, Del., and Bridgeport, Pa.
Filed July 19, 1923. Serial No. 183,438. PUBLISHED OCTOBER 2, 1923.

177,544. OUTBOARD INTERNAL-COMBUSTION MOTORS FOR SMALL CRAFT. JOHNSON MOTOR CO., South Bend, Ind.
Filed July 18, 1923. Serial No. 183,385. PUBLISHED OCTOBER 2, 1923.

177,545. PREPARED PAINT IN PASTE OR SEMI-PASTE FORM. SEWALL PAINT AND GLASS COMPANY, Kansas City, Mo.
Filed July 16, 1923. Serial No. 183,320. PUBLISHED OCTOBER 2, 1923.

177,546. LIQUID VARNISH FOR FURNITURE. THE GLIDDEN COMPANY, Cleveland, Ohio.
Filed July 18, 1923. Serial No. 183,378. PUBLISHED OCTOBER 2, 1923.

177,547. MEN'S AND BOYS' OVERCOATS AND SUITS. ROGERS PEET COMPANY, New York, N. Y.
Filed July 14, 1923. Serial No. 183,231. PUBLISHED OCTOBER 9, 1923.

177,548. FURNITURE POLISH. HAYES & ARMSTRONG, Mineral Wells, Tex.
Filed July 14, 1923. Serial No. 183,210. PUBLISHED OCTOBER 2, 1923.

177,549. BOYS' SUITS. CRIPPEN & REID, Baltimore, Md.
Filed July 14, 1923. Serial No. 183,198. PUBLISHED OCTOBER 9, 1923.

177,550. TIES, CRAVATS, FOUR-IN-HAND TIES, AND BOW TIES. FRIEDMAN BROS. & SONS NECKWEAR CO. INC., New York, N. Y.
Filed July 13, 1923. Serial No. 183,144. PUBLISHED OCTOBER 9, 1923.

177,551. HOSIERY. CHARLES H. GOEPEL, Jr., Philadelphia, Pa.
Filed July 12, 1923. Serial No. 183,110. PUBLISHED OCTOBER 2, 1923.

177,552. FIBER BOARD AND AUTOMOBILE PANEL MATERIAL. GEORGE E. GAGNIER, doing business as Gagnier Trimming Supply Co., Detroit, Mich.
Filed July 12, 1923. Serial No. 183,106. PUBLISHED OCTOBER 2, 1923.

177,553. FIBER BOARD AND AUTOMOBILE PANEL MATERIAL. GEORGE E. GAGNIER, doing business as Gagnier Trimming Supply Co., Detroit, Mich.
Filed July 12, 1923. Serial No. 183,107. PUBLISHED OCTOBER 2, 1923.

177,554. LADIES' OUTER GARMENTS—VIZ, COATS, DRESSES, SKIRTS, CLOAKS, AND SUITS IN TWO-PIECE GARMENTS. MORRIS W. HAFT & BROS. INC., New York, N. Y.
Filed July 11, 1923. Serial No. 183,064. PUBLISHED OCTOBER 2, 1923.

177,555. WRAPPING PAPER. THE DIEM & WING PAPER Co., Cincinnati, Ohio.
Filed July 11, 1923. Serial No. 183,056. PUBLISHED OCTOBER 2, 1923.

177,556. CERTAIN ARTICLES OF CLOTHING. GUTTERMAN BROS., St. Paul, Minn.
Filed December 15, 1922. Serial No. 173,354. PUBLISHED OCTOBER 2, 1923.

177,557. PAPER AND PAPER SHEETS OF VARIOUS KINDS, ADDING-MACHINE PAPER, BANK-NOTE WRAPPERS, BLANK BOOKS OF VARIOUS KINDS, RULED AND OTHERWISE. LEVEY PRINTING COMPANY, Indianapolis, Ind.
Filed December 18, 1922. Serial No. 173,505. PUBLISHED SEPTEMBER 18, 1923.

177,558. CITROUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT IN THEIR NATURAL STATE. GOLD BUCKLE ASSOCIATION, East Highlands, Calif.
Filed December 21, 1922. Serial No. 173,643. PUBLISHED SEPTEMBER 25, 1923.

177,559. SOAP. U. S. SANITARY SPECIALTIES CORPORATION, Chicago, Ill.
Filed December 18, 1922. Serial No. 173,545. PUBLISHED SEPTEMBER 25, 1923.

177,560. SCRUBBING COMPOUND. U. S. SANITARY SPECIALTIES CORPORATION, Chicago, Ill.
Filed December 18, 1922. Serial No. 173,542. PUBLISHED SEPTEMBER 25, 1923.

177,561. WHEAT FLOUR, CANNED FRUITS, VEGETABLES, SEA FOODS, AND COFFEE. L. KLEIN, INC., Chicago, Ill.
Filed January 8, 1923. Serial No. 174,310. PUBLISHED SEPTEMBER 18, 1923.

177,562. WHEAT FLOUR. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed January 22, 1923. Serial No. 174,916. PUBLISHED JUNE 5, 1923.

177,563. HOSIERY. UNITED HOSIERY MILLS CORPORATION, Chattanooga, Tenn.
Filed February 12, 1923. Serial No. 175,971. PUBLISHED OCTOBER 2, 1923.

177,564. CERTAIN NAMED FURNITURE. THE GUNN FURNITURE COMPANY, Grand Rapids, Mich.
Filed February 5, 1923. Serial No. 175,552. PUBLISHED OCTOBER 2, 1923.

177,565. WOVEN SILK UNDERGARMENTS—NAMELY, VESTS, STEP-INS, BLOOMERS, COMBINATION STEP-INS, UNION SUITS, CHEMISES, SLIPS, KIMONOS AND PETTICOATS FOR WOMEN AND CHILDREN. HUGHES & BRADLEY CO., Philadelphia, Pa.
Filed February 2, 1923. Serial No. 175,450. PUBLISHED OCTOBER 2, 1923.

177,566. HOSIERY. BEAR BRAND HOSIERY CO., Chicago, Ill.
Filed February 26, 1923. Serial No. 176,594. PUBLISHED OCTOBER 9, 1923.

177,567. HOSIERY. BEAR BRAND HOSIERY CO., Chicago, Ill.
Filed February 26, 1923. Serial No. 176,593. PUBLISHED OCTOBER 9, 1923.

177,568. LADIES', MISSES', AND CHILDREN'S KNITTED DRESSES, SUITS, WAISTS, BLOUSES, JUMPERS, AND PANTALETTES, COATS, ROBES, AND CAPES. BAB, INC., New York, N. Y.
Filed February 24, 1923. Serial No. 176,532. PUBLISHED AUGUST 21, 1923.

177,569. UMBRELLAS AND PARASOLS. JACOB GROSSMAN, doing business as Giant Umbrella Co., New York, N. Y.
Filed February 20, 1923. Serial No. 176,341. PUBLISHED SEPTEMBER 11, 1923.

177,570. COTTON-CLOTH PIECE GOODS. LEON MICHAEL & CO., New York, N. Y.
Filed March 8, 1923. Serial No. 177,136. PUBLISHED SEPTEMBER 25, 1923.

177,571. COATED PAPER ADAPTED ESPECIALLY FOR USE FOR BOOK PAPER. MCLAURIN-JONES Co., Brookfield, Mass.
Filed March 2, 1923. Serial No. 176,844. PUBLISHED OCTOBER 2, 1923.

177,572. WHEAT FLOUR. HIGHLAND MILLING COMPANY, Highland, Ill.
Filed March 20, 1923. Serial No. 177,740. PUBLISHED OCTOBER 2, 1923.

177,573. WHEAT FLOUR. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed March 14, 1923. Serial No. 177,452. PUBLISHED OCTOBER 2, 1923.

177,574. HOSIERY. THE DORMER BROTHERS COMPANY, Cincinnati, Ohio.
Filed August 4, 1923. Serial No. 184,068. PUBLISHED OCTOBER 9, 1923.

177,575. SOFT DRINKS AND SIRUPS. CHICAGO BEVERAGE Co., Chicago, Ill.
Filed August 20, 1923. Serial No. 184,712. PUBLISHED OCTOBER 9, 1923.

177,576. SWEATERS, CARDIGAN JACKETS, BATHING SUITS. APPEL-HALL, Philadelphia, Pa.
Filed August 4, 1923. Serial No. 184,054. PUBLISHED OCTOBER 9, 1923.

177,577. FLAVORING EXTRACTS FOR FOOD PURPOSES, SPICES, AND FOOD PRODUCTS. ARTHUR G. FENTON, doing business as The Fenton Wholesale Co., Rochester, N. Y.
Filed March 24, 1923. Serial No. 177,966. PUBLISHED OCTOBER 2, 1923.

177,578. WHEAT FLOUR. J. C. LYSLE MILLING COMPANY, Leavenworth, Kans.
Filed December 8, 1922. Serial No. 173,098. PUBLISHED OCTOBER 2, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

177,579. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE AUTOMATIC TRANSPORTATION CO., Buffalo, N. Y. Filed Sept. 12, 1921. Serial No. 152,824.

AUTOMATIC

Particular description of goods.—Electrically-Operated Tractors and Electrically-Operated Locomotives.
Claims use since 1911.

177,580. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) WM. FILENE'S SONS COMPANY, Boston, Mass. Filed Oct. 30, 1923. Serial No. 187,668.

Filene's

Particular description of goods.—Trunks, Traveling Bags, Suitcases, Travelers' Hatboxes, Traveling Boxes, Telescope Bags, Valises, Carryalls, Hand Bags, Portfolios, Pocketbooks, Bill Folds, Purses; Boxes, Cases, and Bags of Leather and of Textile Materials for Holding Jewelry, Collars, Neckties, Hats, Toilet Articles, Sewing and Knitting Materials and Implements, Medicine Bottles, Papers, Music, Gloves, and Clothes; Cardcases of Leather, Ladies' Hand Bags and Purses of Velvet and Silk and of Other Textile Materials and of Knitted and of Netted Materials and of Leather, Boxes and Cases of Leather for Holding Luncheon Utensils, Leather Cases for Drinking Cups, Leather Cases for Mirrors, Leather Cases for Holding Manicuring Implements, Leather Cases for Holding Toilet Articles, Leather Writing Portfolios, Leather Baggage Tags.
Claims use since Oct. 1, 1912.

177,581. (CLASS 39. CLOTHING.) AL GOLDSTEIN, New York, N. Y. Filed Oct. 12, 1923. Serial No. 186,901.

Mansfield

Particular description of goods.—Men's Dress, Negligee, and Work Shirts.
Claims use since about June 15, 1922.

177,582. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) STANDARD HEEL & COUNTER CO., St. Louis, Mo. Filed Oct. 20, 1923. Serial No. 187,270.

STANDARD SOLE LEATHER MAT

Particular description of goods.—Leather Floor Mats.
Claims use since July 22, 1921.

177,583. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WELCH GRAPE JUICE COMPANY, Westfield, N. Y. Filed Sept. 29, 1923. Serial No. 186,401.

Welch's
Tomato Catsup
The Welch Grape Juice Co.
WESTFIELD, N.Y. U.S.A.

Particular description of goods.—Tomato Catchup.
Claims use since Sept. 12, 1922.

177,584. (CLASS 39. CLOTHING.) BERNARD BIRNBAUM, Brookline, Mass. Filed Oct. 4, 1923. Serial No. 186,542.

The Wellesley
THE B-B MAKE

Particular description of goods.—Women's and Children's Coats.
Claims use since January, 1905.

177,585. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) JOHN L. REINARTZ, New York, N. Y. Filed Oct. 11, 1923. Serial No. 186,857.

Reinartz

Particular description of goods.—Electrical Inductances.
Claims use for more than one year.

177,586. (CLASS 39. CLOTHING.) ALFRED EMANUEL COHN, San Francisco, Calif. Filed Sept. 17, 1923. Serial No. 185,860.

THE BOSS
EVERLASTING
BRAND

Particular description of goods.—Overalls, Pants, Children's Play Suits, and Shirts.
Claims use since Sept. 1, 1919.

177,587. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MILLER ICE CREAM COMPANY, Oakland, Calif. Filed Sept. 22, 1923. Serial No. 186,067.

Miller's Quality Ice Cream

Particular description of goods.—Ice Cream.
Claims use since Jan. 15, 1922.

177,588. CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE TORRINGTON COMPANY, Torrington, Conn. Filed Sept. 28, 1923. Serial No. 186,337.

Torrington

Particular description of goods.—Spokes and Nipples for Vehicle Wheels.
Claims use since on or about May 1, 1921.

177,589. (CLASS 37. PAPER AND STATIONERY.) ALLAN & GRAY, New York, N. Y. Filed Aug. 4, 1923. Serial No. 184,050.

F&G Mellotone

Particular description of goods.—Cardboard and Fine Correspondence Paper and Envelopes.
Claims use since Mar. 1, 1922.

177,590. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) LEAHY MANUFACTURING CO., Higginsville, Mo. Filed Sept. 10, 1923. Serial No. 185,603.

FAVORITE INCUBATOR
LEAHY MANUFACTURING CO.
HIGGINSVILLE, MISSOURI
MAKERS OF
— INCUBATORS AND BROODERS —

Particular description of goods.—Incubators and Brooders.
Claims use since January, 1905.

177,591. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, Holyoke, Mass. Filed Aug. 3, 1923. Serial No. 184,013.

BEEBE

Particular description of goods.—Offset Paper.
Claims use since August, 1921.

177,592. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, Holyoke, Mass. Filed Aug. 3, 1923. Serial No. 184,014.

DICKINSON

Particular description of goods.—Offset Paper.
Claims use since August, 1921.

177,593. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) KANT-FOUL SPARK PLUG COMPANY, Topeka, Kans. Filed June 4, 1923. Serial No. 181,529.

KANT FOUL

Particular description of goods.—Spark Plugs.
Claims use since Dec. 20, 1921.

177,594. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KINGS COUNTY PACKING COMPANY, Armona, Calif. Filed June 30, 1923. Serial No. 182,661.

SUN KURED

Particular description of goods.—Fresh and Canned Fruits.
Claims use since June 10, 1914.

177,595. (CLASS 39. CLOTHING.) BLUE RIDGE MANUFACTURING COMPANY, INCORPORATED, Alexandria, Va. Filed Mar. 22, 1923. Serial No. 177,823.

SUPER SERVICE SHIRT FIRST & LAST

Particular description of goods.—Work Shirts, Trousers, and Overalls.
Claims use since 1921.

177,596. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE GRUEN WATCH COMPANY, Cincinnati and Time Hill, Cincinnati, Ohio. Filed Apr. 25, 1923. Serial No. 179,666.

GRUEN

PENTAGON

Particular description of goods.—Watches, Watchcases, and Watch Movements.
Claims use since on or about September, 1921.

177,597. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GRAHAM CO. INC., New York, N. Y. Filed Mar. 8, 1923. Serial No. 177,126.



Particular description of goods.—Mixed Nuts.
Claims use for not less than one year prior to Mar. 8, 1923. Trade-mark has been in bona fide and continuous use by applicant in interstate commerce and in commerce with foreign nations during all of said period and for a long time prior thereto.

177,598. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) WAGER MANUFACTURING CORPORATION, Jersey City, N. J. Filed Jan. 29, 1923. Serial No. 175,286.

Wager's SANITARY HAVING PAPER

Particular description of goods.—Mechanical Shaving Lather-Forming Devices.
Claims use since Sept. 8, 1922.

177,599. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LIJM-EN-GELATINEFABRIEK-DELFT, Delft, Netherlands. Filed Dec. 14, 1922. Serial No. 173,333.

„delft"

Particular description of goods.—Gelatin Used as a Food or as an Ingredient of Foods.
Claims use since Nov. 19, 1920.

177,600. (CLASS 7. CORDAGE.) AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y. Filed Nov. 22, 1922. Serial No. 172,366.

PARCEL POST

Particular description of goods.—Rope, Cord, and Twine Manufactured from Vegetable Fiber.
Claims use since May 12, 1913.

177,601. (CLASS 37. PAPER AND STATIONERY.) H. P. ANDREWS PAPER COMPANY, New York, N. Y. Filed Oct. 31, 1922. Serial No. 171,404.

Old Dublin Bond

Particular description of goods.—Bond Paper.
Claims use since June, 1915.

177,602. (CLASS 37. PAPER AND STATIONERY.) H. P. ANDREWS PAPER COMPANY, New York, N. Y. Filed Oct. 31, 1922. Serial No. 171,403.

CIRCULAR BOND

Particular description of goods.—Bond Paper.
Claims use since March, 1917.

177,603. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) LACLEDE-CHRISTY CLAY PRODUCTS COMPANY, St. Louis, Mo. Filed Oct. 14, 1922. Serial No. 170,720.

STOWE

Particular description of goods.—Stokers.
Claims use since May 13, 1922.

177,604. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GENEVIEVE JACKSON, INC., Burbank, Calif. Filed Feb. 23, 1922. Serial No. 159,706.

SWEET BRANNIES

Particular description of goods.—Health Foods.
Claims use since Sept. 1, 1921.

177,605. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) J. K. PETTY & COMPANY, INCORPORATED, doing business as Lebanon Boiler Works, Philadelphia, Pa. Filed Oct. 31, 1923. Serial No. 187,766.

UNIFLOW

Particular description of goods.—Steam Boilers.
Claims use since 1917.

177,606. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SADLER MANUFACTURING COMPANY, San Francisco, Calif. Filed July 28, 1922. Serial No. 167,539.

TRUTONE

Particular description of goods.—Radio Loud-Speaking Horns.
Claims use since about July 5, 1922.

177,607. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BICKFORD LABORATORIES COMPANY, Akron, Ohio. Filed May 1, 1922. Serial No. 163,134.

"BICKFORD'S"
TRADE MARK

Particular description of goods.—Food-Flavoring Extracts and Table Sirups.
Claims use since on or about Nov. 1, 1920.

177,608. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TUBULAR WOVEN FABRIC COMPANY, Pawtucket, R. I. Filed Aug. 28, 1922. Serial No. 168,810.

SINGLE WALL

Particular description of goods.—Woven Tubes for Electrical Conductors.
Claims use since on or about Jan. 31, 1922.

177,609. (CLASS 39. CLOTHING.) CHIPMAN KNITTING MILLS, Easton, Pa. Filed Aug. 14, 1922. Serial No. 168,205.

FANCIE DRESS

Particular description of goods.—Hosiery.
Claims use since July 13, 1922.

LABELS

REGISTERED DECEMBER 18, 1923.

26,685.—*Title:* LIQUID EL VAMPIRO. For Liquid Spray for Flies, Mosquitoes, Moths, Fleas, Bedbugs, Lice, Cockroaches, and Ants. ALLAIRE, WOODWARD & CO., Peoria, Ill. Published November 1, 1923.

26,686.—*Title:* CHIEF BRAND, THE UNIVERSAL HYDRATED LIME. For Hydrated Lime and Lime Products. CHIEF CONSOLIDATED MINING CO., Salt Lake City, Utah. Published November 6, 1923.

26,687.—*Title:* RADCOSE. For Nonfreezing Solution for Automobile, Truck, and Tractor Radiators. LEE-STRAUSS CO., Johnstown, Pa. Published September 6, 1923.

26,688.—*Title:* LEATHER PLAITING OUTFIT. For Outfits Which Include Leather Cutting and Plaiting Implements for Forming and Plaiting Leather Strips or Thongs. LESTER E. GRISWOLD, Columbus, Ohio. Published November 6, 1923.

26,689.—*Title:* APRICOT SHEIK. For Soft Beverages of Apricot Flavor. KING AND COMPANY, Chicago, Ill. Published November 8, 1923.

26,690.—*Title:* GRAN'MA'S EXTRA QUALITY. For Bread. MARKERT & WAYBRIGHT, Clarksburg, W. Va. Published October 30, 1923.

26,691.—*Title:* HOLSUM. For Bread. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Reynolds Baking Company, Columbus, Ohio. Published May 12, 1923.

26,692.—*Title:* VELVET BRAND. For Butter. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis. Published November 7, 1923.

26,693.—*Title:* PERRY'S. For Ice Cream. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis. Published November 7, 1923.

26,694.—*Title:* PERFECTION. For Ice Cream. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis. Published November 7, 1923.

26,695.—*Title:* QUALITY. For Butter. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis. Published November 5, 1923.

26,696.—*Title:* CLOVER DEW. For Creamery Butter. MIDWEST CREAMERY CO., Plymouth, Wis. Published October 19, 1923.

26,697.—*Title:* DUTCH MAID. For Old-Fashioned Bitter Sweets. MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Published October 5, 1923.

26,698.—*Title:* MOON-GLOW. For Assorted Chocolates. MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Published October 24, 1923.

26,699.—*Title:* RIVERDALE. For Creamery Butter. JOHN MORRELL & CO., Ottumwa, Iowa. Published June 29, 1923.

26,700—*Title:* RIVERDALE. For Sugar Peas. JOHN MORRELL & CO., Ottumwa, Iowa. Published June 27, 1923.

26,701.—*Title:* MURELL'S HANDCLEANER CLARO. For Soap Powder. PAUL MULLER, New York, N. Y. Published October 15, 1923.

26,702.—*Title:* LYONS' CALIFORNIA ORCHARD SCENES, SERIES NO. 2. For Glacé Fruits. J. C. RAAS, San Francisco, Calif. Published July 25, 1923.

26,703.—*Title:* ROSEN'S PEANUT BRITTLE. For Peanut Brittle. E. ROSEN COMPANY, Providence, R. I. Published November 1, 1923.

26,704.—*Title:* WEDDING RING COFFEE. For Coffee. JACOB SHAPIRO, doing business as Standard Coffee & Spice Co., Kansas City, Mo. Published November 21, 1923.

26,705.—*Title:* S AND W CALASIA FIGS. For Whole Figs, Canned, Preserving Natural Flavor of Fresh Figs. SUSSMAN, WORMSER & CO., San Francisco, Calif. Published October 11, 1922.

26,706.—*Title:* S AND W. For Canned Grapefruit. SUSSMAN, WORMSER & CO., San Francisco, Calif. Published October 11, 1922.

26,707.—*Title:* WARD'S DAINTY DIMPLE DONUTS. For Doughnuts. WARD BAKING COMPANY, New York, N. Y. Published October 9, 1923.

26,708.—*Title:* UNCLE WIGGILY'S PARADE. For Toy Balloons. FRED A. WISH, INC., New York, N. Y. Published April 17, 1923.

26,709.—*Title:* UNCLE WIGGILY'S BALLOON BANG! For Toy Balloon. FRED A. WISH, INC., New York N. Y. Published April 17, 1923.

PRINTS

REGISTERED DECEMBER 18, 1923.

7,087.—*Title:* HERE'S HAPPINESS! JUST USE BLUEBIRDS FOR HAPPINESS. For Liver Pills. BLUEBIRD PHARMACAL CO., Cambridge, Mass. Published October 5, 1923.

7,088.—*Title:* M. J. B. COFFEE "EXCEEDS ALL EXPECTATIONS." For Coffee. M. J. BRANDENSTEIN & CO., San Francisco, Calif. Published October 16, 1923.

7,089.—*Title:* ARROW SHIRTS—GORDON—SPENCER. For Shirts. CLUETT, PEABODY & CO., INC., Troy, N. Y. Published May 26, 1923.

7,090.—*Title:* ARROW SHIRTS—THE ARROW SHIRT MAKERS DEPEND, ETC. For Shirts. CLUETT, PEABODY & CO., INC., Troy, N. Y. Published November 12, 1923.

7,091.—*Title:* ARROW SHIRTS—THIS IS SPENCER 10, AN ARROW SHIRT DESIGNED, ETC. For Shirts. CLUETT, PEABODY & CO., INC., Troy, N. Y. Published November 12, 1923.

7,092.—*Title:* A BABY IN YOUR HOME. For a Proprietary Remedy for Use in the Treatment of Sterility in Women. H. WILL ELDERS, M. D., St. Joseph, Mo. Published September 15, 1923.

7,093.—*Title:* REEF BRAND CRUSHED OYSTER SHELL FOR POULTRY. For Crushed Oyster Shell. GULF CRUSHING CO., INC., Morgan City and New Orleans, La. Published September 30, 1923.

7,094.—*Title:* THE FLAVOR DIFFERENCE. For Coffee. HILLS BROS., San Francisco, Calif. Published September 14, 1923.

7,095.—*Title:* THE HIGH QUALITY MAKES FRIENDS. For Coffee. HILLS BROS., San Francisco, Calif. Published September 7, 1923.

7,096.—*Title:* THE DELICIOUS AROMA OF AN OPENED CAN IS A PROMISE OF THE FULL FLAVORED CUP TO COME QUALITY MADE IT. For Coffee. HILLS BROS., San Francisco, Calif. Published September 21, 1923.

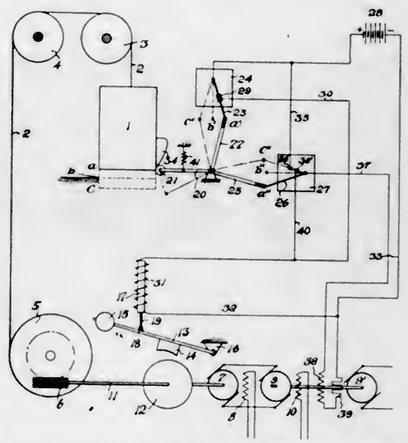
7,097.—*Title:* QUALITY MADE. For Coffee. HILLS BROS., San Francisco, Calif. Published October 5, 1923.

7,098.—*Title:* A JOY TO THE EPICURE. For Ice Cream. FREDERICK C. MATHEWS COMPANY, Detroit, Mich. Published November 1, 1923.

REISSUES

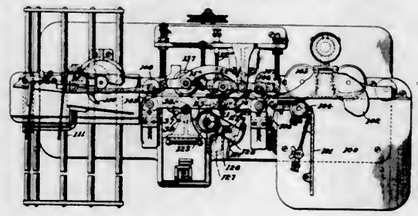
DECEMBER 18, 1923.

15,733. AUTOMATIC BRAKE FOR ELEVATORS. PAUL KESTEN, Huckelshofen, near Aachen, and HEINRICH OSBORNE, Berlin-Wilmersdorf, Germany, assignors, by mesne assignments, to Otis Elevator Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 29, 1923. Serial No. 665,664. Original No. 1,173,438, dated Feb. 29, 1916. Serial No. 765,839, filed May 6, 1913. 8 Claims. (Cl. 172—152.)



5. The combination with a controlling generator, and a motor driven thereby, of a cage of an elevator and electric means controlled by the cage for reversing the motor when the cage has passed a predetermined point and automatic means for stopping the cage when it has returned to said point.

15,734. POSTAGE METER AND MAIL-MARKING MACHINE. ARTHUR H. PITNEY, Stamford, Conn., assignor, by mesne assignments, to Pitney-Bowes Postage Meter Company, Stamford, Conn., a Corporation of Delaware. Filed Jan. 8, 1923. Serial No. 611,507. Original No. 1,370,668, dated Mar. 8, 1921, Serial No. 368,701, filed Mar. 25, 1920. 146 Claims. (Cl. 101—91.)



1. In a machine of the character specified, means for feeding letters past a printing point; a meter bodily removable from and replaceable in the machine adjacent the printing point, printing means adapted to be operated when the meter is in the machine; a trip mechanism adapted to be tripped by letters passing through the machine; and means controlled by the trip mechanism for operating the printing means each time a letter passes through the machine; with means for automatically locking the printing means when the meter is removed from the machine.

DESIGNS

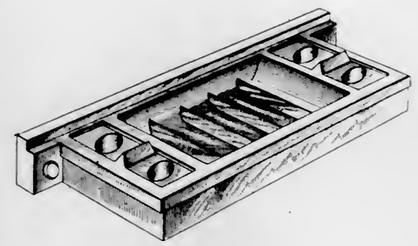
DECEMBER 18, 1923.

63,548. CROWN SETTING FOR ARTICLES OF JEWELRY. ZALKIND ANSHEN, Boston, Mass., assignor to himself and Henry Morris, Boston, Mass., Copartners, doing business as Boston Jewelry Manufacturing Company. Filed July 14, 1922. Serial No. 3,085. Term of patent 3½ years.



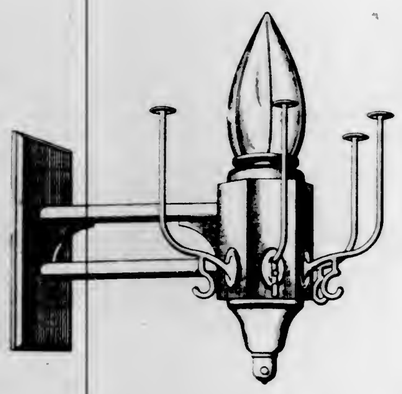
The ornamental design for a crown setting for articles of jewelry as shown.

63,549. COMBINATION SOAP AND TOOTHBRUSH HOLDER. STEPHEN D. BAKER, New York, N. Y. Filed Dec. 31, 1921. Serial No. 526,394. Term of patent 14 years.



The ornamental design for a combination soap and toothbush holder as shown.

63,550. COMBINED LIGHT SUPPORT, GARMENT AND HAT RACK. JOHN BATSON, Murphysboro, Ill. Filed Feb. 26, 1923. Serial No. 5,259. Term of patent 14 years.



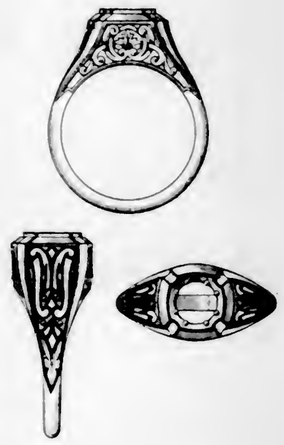
The ornamental design for a combined light support, garment and hat rack, as shown.

63,551. FRUIT-JAR CAP. ELMER BEAVERS, Los Angeles, Calif., assignor, by direct and mesne assignments, to Beaver Seal Jar Cap Company, Norristown, Pa. Filed Oct. 29, 1920. Serial No. 420,556. Term of patent 14 years.



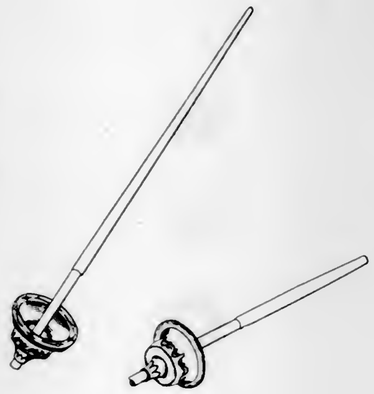
The ornamental design for a fruit jar cap, as shown.

63,552. FINGER RING. BYARD F. BROGAN, Philadelphia, Pa. Filed Aug. 15, 1923. Serial No. 7,018. Term of patent 3½ years.



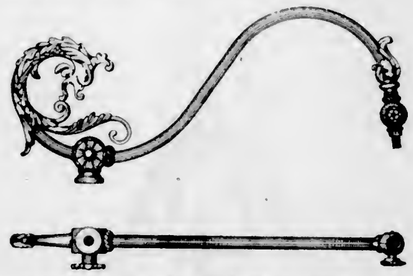
The ornamental design for a finger ring, as shown.

63,553. COMBINATION PENHOLDER AND SAFETY COLLAR. JOSEF ČERNÝ, Leominster, Mass. Filed Mar. 27, 1923. Serial No. 5,612. Term of patent 3½ years.



The ornamental design for a combination penholder and safety collar, as shown.

63,554. BRIDGE ARM FOR LIGHTING FIXTURES. ABRAHAM COOPER, Brooklyn, N. Y. Filed Feb. 20, 1923. Serial No. 5,229. Term of patent 3½ years.



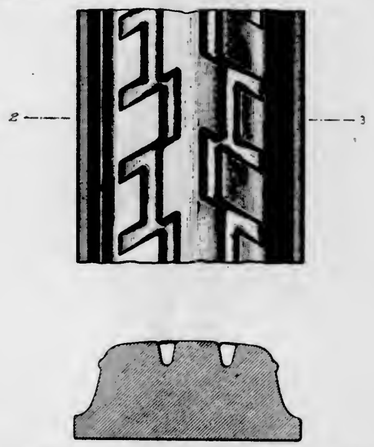
The ornamental design for a bridge arm for lighting fixtures, as shown.

63,555. FIXTURE ARM. MORIS GERINGER and ISIDOR GERINGER, New York, N. Y. Filed Mar. 5, 1923. Serial No. 5,371. Term of patent 3½ years.



The ornamental design for a fixture arm, as shown.

63,556. TIRE TREAD. EDWARD B. GERMAIN, Buffalo, N. Y., assignor to Dunlop Tire and Rubber Corporation of America, Buffalo, N. Y., a Corporation of New York. Filed Oct. 5, 1923. Serial No. 7,406. Term of patent 14 years.



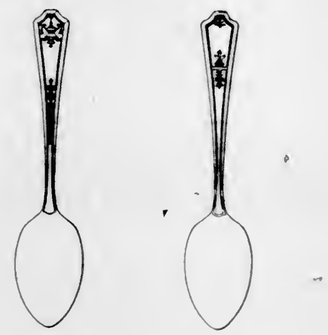
The ornamental design for a tire tread as shown.

63,557. HUSK FOR LIGHTING FIXTURES. HANS HUEBNER, Milwaukee, Wis., assignor to Moe-Bridges Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed May 24, 1923. Serial No. 6,268. Term of patent 14 years.



The ornamental design for a husk for lighting fixtures as shown.

63,558. SPOON OR SIMILAR ARTICLE. SIDNEY V. JAMES, Niagara Falls, N. Y., assignor to Simeon L. and George H. Rogers Company, Hartford, Conn., a Corporation of Maine. Filed Mar. 30, 1923. Serial No. 5,651. Term of patent 14 years.



The ornamental design for a spoon or similar article, as shown.

63,559. EMBLEM, PIN, OR BUTTON. EDWIN O. KIESSIG, St. Louis, Mo., assignor to E. L. Logee Company, Providence, R. I., a Corporation of Rhode Island. Filed June 28, 1923. Serial No. 6,607. Term of patent 7 years.



The ornamental design for an emblem, pin, or button, as shown.

63,560. STREET-LAMP POST. ARTHUR G. KINNEY, Fargo, N. Dak., assignor to The Fargo Foundry Company, Fargo, N. Dak., a Corporation of North Dakota. Filed Feb. 27, 1922. Serial No. 907. Term of patent 7 years.



The ornamental design for a street lamp post, as shown.

63,561. WATCHCASE. VICTOR RITSCHARD, Riverton, N. J., assignor to The Keystone Watch Case Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 6, 1922. Serial No. 1,606. Term of patent 7 years.



The ornamental design for a watch case, as shown.

63,562. LAMP. OTTO LAMACCHIA, Bridgeport, Conn. Filed July 26, 1923. Serial No. 6,869. Term of patent 7 years.



The ornamental design for a lamp, as shown.

63,563. DOLL. ANN DIXIE LANGDON, Piedmont, Calif. Filed Sept. 4, 1923. Serial No. 7,144. Term of patent 7 years.



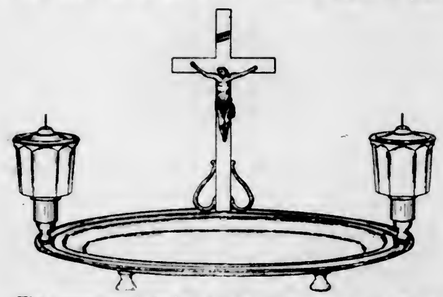
The ornamental design for a doll, as shown.

63,564. DOLL. ANN DIXIE LANGDON, Piedmont, Calif. Filed Sept. 4, 1923. Serial No. 7,145. Term of patent 7 years.



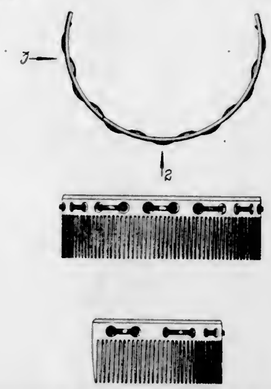
The ornamental design for a doll, as shown.

63,565. SPIRITUAL-MASS CARD TRAY. SETH H. LEAVENWORTH, Rochester, N. Y., assignor to The Van Bergh Silver Plate Co., Rochester, N. Y. Filed June 15, 1923. Serial No. 6,513. Term of patent 7 years.



The ornamental design for a spiritual mass card tray, as shown.

63,566. COMB. EMILE LETARTE, Leominster, Mass. Filed Apr. 30, 1923. Serial No. 6,007. Term of patent 3½ years.



The ornamental design for a comb as shown.

63,567. MEDAL. OTTO H. LINDENBERG, Columbus, Ohio. Filed Feb. 19, 1923. Serial No. 5,203. Term of patent 14 years.



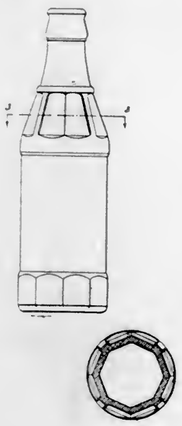
The ornamental design for a medal, as shown.

63,568. LIGHTING FIXTURE. GEORGE LUDWIG, Milwaukee, Wis., assignor to Moe-Bridges Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 27, 1923. Serial No. 6,597. Term of patent 7 years.



The ornamental design for a lighting fixture, as shown.

63,569. BOTTLE. CHARLES W. MEISEZAHL, New York, N. Y. Filed June 28, 1923. Serial No. 6,609. Term of patent 3½ years.



The ornamental design for a bottle, as shown.

63,560. STREET-LAMP POST. ARTHUR G. KINNEY, Fargo, N. Dak., assignor to The Fargo Foundry Company, Fargo, N. Dak., a Corporation of North Dakota. Filed Feb. 27, 1922. Serial No. 907. Term of patent 7 years.



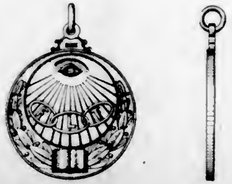
63,562. LAMP. OTTO LAMACCHIA, Bridgeport, Conn. Filed July 26, 1923. Serial No. 6,869. Term of patent 7 years.



63,564. DOLL. ANN DIXIE LANGDON, Piedmont, Calif. Filed Sept. 4, 1923. Serial No. 7,145. Term of patent 7 years.



63,567. MEDAL. OTTO H. LINDENBERG, Columbus, Ohio. Filed Feb. 19, 1923. Serial No. 5,203. Term of patent 14 years.



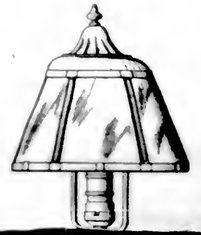
The ornamental design for a medal, as shown.

63,568. LIGHTING FIXTURE. GEORGE LUDWIG, Milwaukee, Wis., assignor to Mee-Bridges Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June [illegible] patent 7 years.

63,560. STREET-LAMP POST. ARTHUR G. KINNEY, Fargo, N. Dak., assignor to The Fargo Foundry Company, Fargo, N. Dak., a Corporation of North Dakota. Filed Feb. 27, 1922. Serial No. 907. Term of patent 7 years.



63,562. LAMP. OTTO LAMACCHIA, Bridgeport, Conn. Filed July 26, 1923. Serial No. 6,869. Term of patent 7 years.



63,564. DOLL. ANN DIXIE LANGDON, Piedmont, Calif. Filed Sept. 4, 1923. Serial No. 7,145. Term of patent 7 years.



63,567. MEDAL. OTTO H. LINDENBERG, Columbus, Ohio. Filed Feb. 19, 1923. Serial No. 5,203. Term of patent 14 years.



The ornamental design for a medal, as shown.

63,570. LIGHTING FIXTURE. WILLIAM J. MEIXNER, Camden, N. J., assignor to Voigt Company, Philadelphia, Pa. Filed July 26, 1923. Serial No. 6,872. Term of patent 3½ years.



The ornamental design for a lighting fixture, as shown

63,571. LIGHTING FIXTURE. WILLIAM J. MEIXNER, Camden, N. J., assignor to Voigt Company, Philadelphia, Pa. Filed July 26, 1923. Serial No. 6,873. Term of patent 3½ years.



The ornamental design for a lighting fixture, as shown.

63,572. LIGHTING FIXTURE. WILLIAM J. MEIXNER, Camden, N. J., assignor to Voigt Company, Philadelphia, Pa. Filed July 27, 1923. Serial No. 6,880. Term of patent 3½ years.



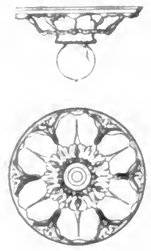
The ornamental design for a lighting fixture, as shown.

63,573. LIGHTING FIXTURE. WILLIAM J. MEIXNER, Camden, N. J., assignor to Voigt Company, Philadelphia, Pa. Filed July 27, 1923. Serial No. 6,881. Term of patent 3½ years.



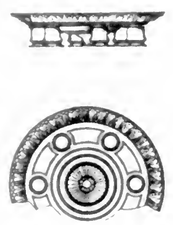
The ornamental design for a lighting fixture, as shown.

63,574. LIGHTING FIXTURE. WILLIAM J. MEIXNER, Camden, N. J., assignor to Voigt Company, Philadelphia, Pa. Filed July 28, 1923. Serial No. 6,890. Term of patent 3½ years.



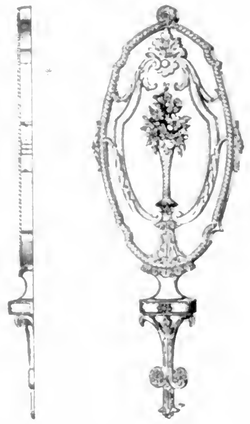
The ornamental design for a lighting fixture, as shown.

63,575. LIGHTING FIXTURE. WILLIAM J. MEIXNER, Camden, N. J., assignor to Voigt Company, Philadelphia, Pa. Filed July 28, 1923. Serial No. 6,891. Term of patent 3½ years.



The ornamental design for a lighting fixture, as shown.

63,576. PLATE FOR LIGHTING FIXTURES. JOHN C. METTLER, Chicago, Ill., assignor to Beardslee Chandeller Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 2, 1923. Serial No. 5,679. Term of patent 7 years.



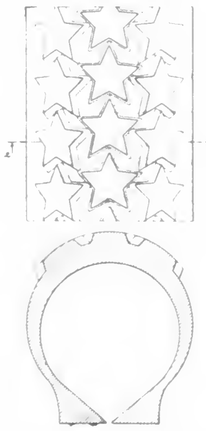
The ornamental design for a plate for lighting fixtures as shown.

63,577. CHANDELIER. ABRAHAM MILLER, New York, N. Y. Filed Feb. 21, 1923. Serial No. 5,235. Term of patent 3½ years.



The ornamental design for a chandelier, as shown.

63,578. TIRE TREAD. LEONARD GEORGE NASSOIY, Niagara Falls, N. Y. Filed Aug. 18, 1921. Serial No. 493,451. Term of patent 14 years.



The ornamental design for a tire tread, as shown.

63,579. BACKPLATE FOR A LAMP FIXTURE. ALBERT J. D. OHM, Astoria, N. Y., assignor to Max Schaffer Company. Filed July 23, 1923. Serial No. 6,825. Term of patent 3½ years.



The ornamental design for a backplate for a lamp fixture as shown.

63,580. LAMP FIXTURE. ALBERT J. D. OHM, Astoria, N. Y., assignor to Max Schaffer Company. Filed July 23, 1923. Serial No. 6,826. Term of patent 3½ years.





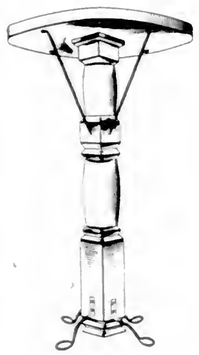
The ornamental design for a lamp fixture as shown.

63,581. LAMP FIXTURE. ALBERT J. D. OHM, Astoria, N. Y., assignor to Max Schaffer Company. Filed July 23, 1923. Serial No. 6,827. Term of patent 3½ years.



The ornamental design for a lamp fixture as shown.

63,582. FLOWER OR LAMP STAND. JOHN T. PHILLIPS, Lafayette, Ala. Filed July 3, 1923. Serial No. 6,671. Term of patent 14 years.



The ornamental design for a flower or lamp stand as shown.

63,583. BODY HOLDER FOR A CHANDELIER. FREDERICK MAX PORITZ, New York, N. Y., assignor to Star Chandelier Company Inc., New York, N. Y., a Corporation of New York. Filed May 29, 1923. Serial No. 6,316. Term of patent 3½ years.



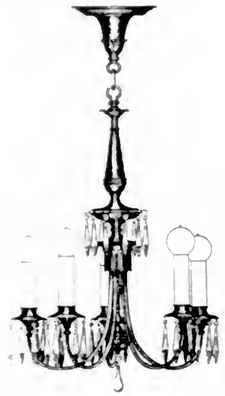
The ornamental design for a body holder for a chandelier as shown.

63,584. CANDLE HOLDER FOR A CHANDELIER. FREDERICK MAX PORITZ, New York, N. Y., assignor to Star Chandelier Company Inc., New York, N. Y., a Corporation of New York. Filed May 29, 1923. Serial No. 6,317. Term of patent 3½ years.



The ornamental design for a candle holder for chandelier as shown

63,585. CHANDELIER. FREDERICK MAX PORITZ, New York, N. Y., assignor to Star Chandelier Company Inc., New York, N. Y., a Corporation of New York. Filed May 29, 1923. Serial No. 6,318. Term of patent 3½ years.



The ornamental design for a chandelier as shown.

63,586. CHANDELIER. FREDERICK MAX PORITZ, New York, N. Y., assignor to Star Chandelier Company Inc., New York, N. Y., a Corporation of New York. Filed May 29, 1923. Serial No. 6,319. Term of patent 3½ years.



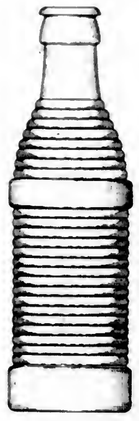
The ornamental design for a chandelier as shown.

63,587. CHANDELIER. FREDERICK MAX PORITZ, New York, N. Y., assignor to Star Chandelier Company Inc., New York, N. Y., a Corporation of New York. Filed May 29, 1923. Serial No. 6,320. Term of patent 3½ years.



The ornamental design for a chandelier as shown.

63,588. BOTTLE. CHAPMAN J. ROOT, Terre Haute, Ind. Filed Feb. 4, 1922. Serial No. 529. Term of patent 14 years.



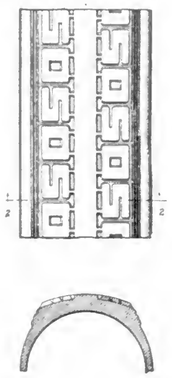
The ornamental design for a bottle, as shown.

63,589. DOLL. LILLIAN N. SANGER, Framingham, Mass. Filed July 18, 1923. Serial No. 6,801. Term of patent 7 years.



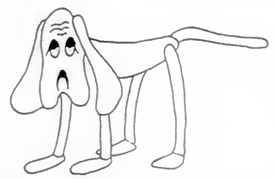
The ornamental design for a doll, as shown.

63,590. PNEUMATIC TIRE. ADOLF B. SCHLEICHER, Los Angeles, Calif. Filed May 29, 1922. Serial No. 2,466. Term of patent 7 years.



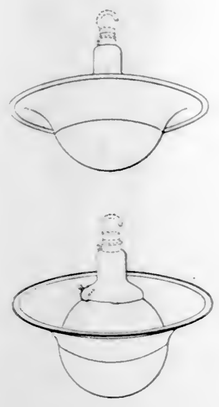
The ornamental design for a pneumatic tire as shown.

63,591. TOY DOG. EVALINE CLARKE SELLORS, St. Louis, Mo. Filed May 7, 1923. Serial No. 6,094. Term of patent 3½ years.



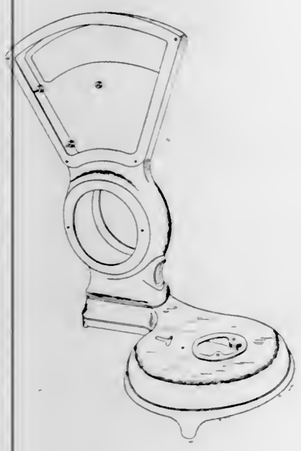
The ornamental design for a toy dog, as shown.

63,592. LIGHTING FIXTURE. WILLIAM H. SPENCER, New York, N. Y., assignor to I. P. Frink, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 22, 1921. Serial No. 502,579. Term of patent 3½ years.



The ornamental design for a lighting fixture, as shown.

63,593. SCALE FRAME. WALTER F. STIMPSON, Louisville, Ky. Filed Oct. 22, 1921. Serial No. 509,746. Term of patent 14 years.



The ornamental design for a scale frame, substantially as shown.

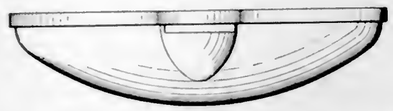
63,594. DOLL. DAVID STRAITON, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 26, 1922. Serial No. 4,710. Term of patent 14 years.



The ornamental design for a doll, as shown.

62,595. AUTOMOBILE SIGNAL. WILLIAM THOMAS, Jr., Los Angeles, Calif. Filed May 7, 1923. Serial No. 6,089. Term of patent 14 years.





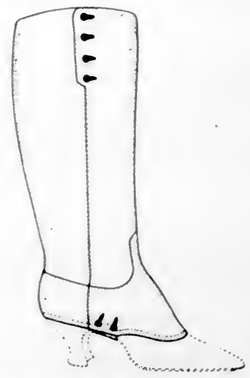
The ornamental design for an automobile signal, as shown.

63,596. BOOT TOP. CHARLES TWEEDIE, Jefferson City, Mo. Filed July 8, 1922. Serial No. 3,000. Term of patent 7 years.



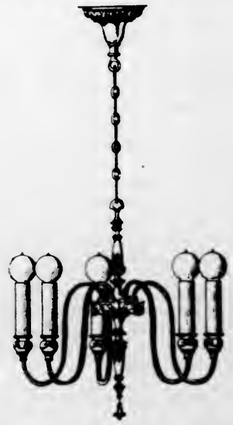
The ornamental design for a boot top, as shown.

63,597. LEGGING. CHARLES TWEEDIE, Jefferson City, Mo. Filed July 8, 1922. Serial No. 3,001. Term of patent 14 years.



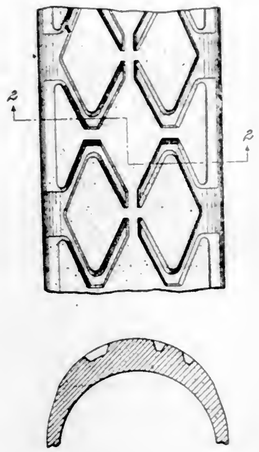
The ornamental design for a legging, as shown.

63,598. CHANDELIER. ALBERT ULLMAN, Cleveland, Ohio, assignor to The Scott-Ullman Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 8, 1923. Serial No. 6,440. Term of patent 3½ years.



The ornamental design for a chandelier, as shown.

63,599. TIRE TREAD. CHARLES J. VENN, Chicago, Ill., assignor to Century Rubber Works, Cicero, Ill., a Corporation of Illinois. Filed May 22, 1922. Serial No. 2,358. Term of patent 14 years.



The ornamental design for a tire tread, substantially as shown.

63,600. COOKY. FRANK WERNER, Grand Rapids, Mich. Filed June 4, 1923. Serial No. 6,385. Term of patent 14 years.

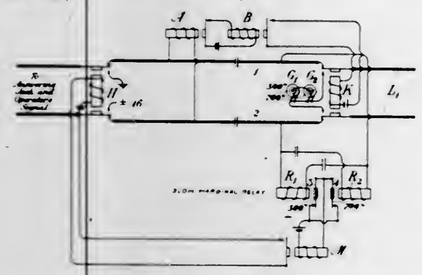


The ornamental design for a cooky as shown.

PATENTS

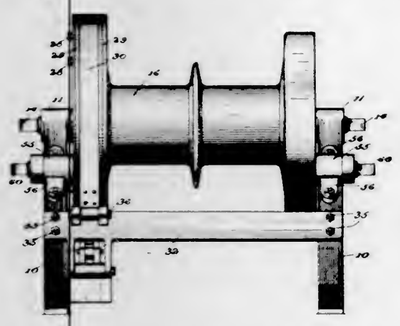
GRANTED DECEMBER 18, 1923.

1,477,528. SIGNALING. HERMAN A. AFFEL, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 30, 1920. Serial No. 369,979. 4 Claims. (Cl. 179—2.)



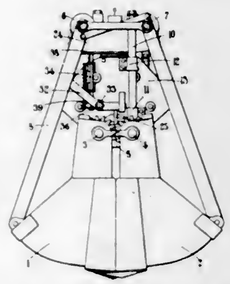
1. In a telephone system, composite ringing apparatus comprising a source of low frequency ringing current and a second source of a plurality of frequencies in the voice range, a signal device receptive to the low frequency and a second signal device responsive to the plurality of frequencies when said plurality of frequencies are received simultaneously only, means associated with the latter signal device for connecting the low frequency source to the line, and means associated with the former signaling device to connect the voice frequency source to the line.

1,477,529. LOWERING AND RAISING DRUM FOR LIFEBOATS. SIM EMIL ALLBIN, Seattle, Wash., assignor to Mayer Life Boat Co. Inc., Seattle, Wash. Filed Dec. 31, 1921. Serial No. 526,147. 2 Claims. (Cl. 254—186.)



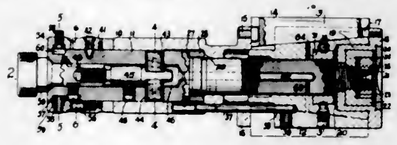
1. A hoisting mechanism, comprising a drum, means for rotatably supporting the drum, an annular flange formed with said drum terminating in an internal ring gear concentric to the drum, and the outer surface of said ring gear being formed with a plurality of circumferentially spaced notches, an annulus fitted about the ring gear, a roller in each of said notches adapted to permit the ring gear to rotate in one direction with relation to the annulus but to lock the ring gear against rotation in the opposite direction with relation to the annulus, an adjustable friction band about said annulus, a spindle rotatably supported and carrying a pinion in constant mesh with said ring gear, and said spindle being adapted to be manually rotated to move said ring gear in either direction.

1,477,530. GRAB. DUDLEY JAMES BARNARD, Barking, England. Filed July 24, 1922. Serial No. 577,224. 10 Claims. (Cl. 37—186.)



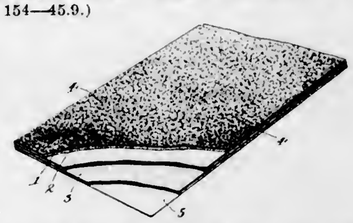
1. In a grab of the type provided with means connecting the cross-beam and movable sheave block, the combination of means comprising a pair of gravity catches pivoted on independent pivots on the cross-beam, means connecting the lower ends of said catches to cause same to operate in unison with each other comprising a pin on the lower end of one catch, a slot in the lower end of the other catch with which said pin engages, means on the sheave block plates for moving said catches into their operative position, means on the sheave block plates with which said catches engage, movable means mounted on said sheaved block plate adapted to engage with one of said catches, and spring controlled means mounted on one of said sheave block plates arranged to control the movements of said movable means according to the relative position of the operative parts of the grab.

1,477,531. ADJUSTABLE GAUGE. JOHN BATH, Worcester, Mass., assignor to John Bath & Co. Inc., Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 10, 1920. Serial No. 402,608. 17 Claims. (Cl. 33—178.)



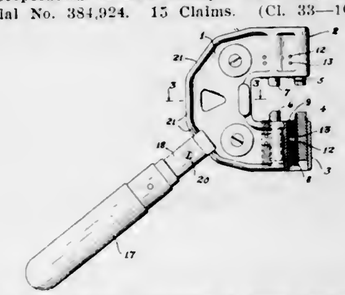
1. An adjustable gauge comprising a body, a threaded shaft mounted for rotation only therein, a member threaded thereon, and provided with bearing surfaces inclined to the axis of said shaft, a plurality of gauge bars having portions contacting with said inclined surfaces slidably mounted in said member and movable simultaneously radially thereby, a nut threaded in said member and also threaded on said shaft, and means accessible from the side of said member for adjusting said nut.

1,477,532. WALL BOARD. CHARLES S. BIRD, East Walpole, Mass., assignor to Bird & Son, Incorporated, East Walpole, Mass., a Corporation of Massachusetts. Filed May 24, 1919. Serial No. 299,517. 3 Claims. (Cl. 154—45.9.)



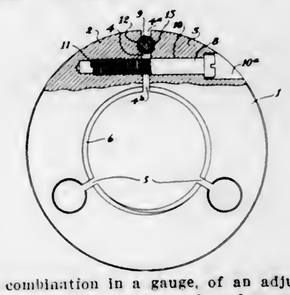
1. As a new article of manufacture, a building board substantially rigid under varying atmospheric conditions, comprising a plurality of plies of felt saturated with asphaltum and imposed one upon the other in adherent relation; a surface of mineral particles produced upon one face of the body thus formed; and a sheet of paper secured upon the opposite face by a waterproof cement.

1,477,533. GAUGE. BRYANT H. BLOOD, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed May 28, 1920. Serial No. 384,924. 15 Claims. (Cl. 33—163.)



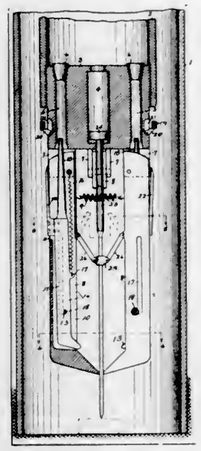
1. A gauge anvil comprising a shank having a laterally projecting gaging head integral on one end and screw threads extending along one side of the body portion thereof, the edge of the head diametrically opposite the screw threads extending in a straight line adapted to serve as a gaging surface.

1,477,534. ADJUSTABLE RING GAUGE. BRYANT H. BLOOD, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed July 10, 1920. Serial No. 395,212. 12 Claims. (Cl. 33—178.)



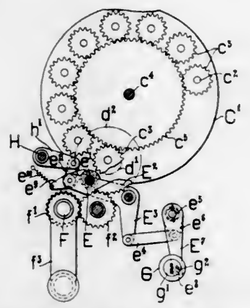
1. The combination in a gauge, of an adjustable split body having a gaging surface adapted to contact with the parts to be gaged, means extending through and engaging both ends of the split portion of the gauge for drawing such ends together, and a screw threaded tapered member extending transversely of the said means and engaging the ends of the gauge directly radially outside of the said means for separating the said ends and for holding the ends in alignment, rotation of the said screw being adapted to adjust the tapered portion thereof longitudinally.

1,477,535. AUTOMATIC FISHING TOOL. ARCHIE E. BRADY, Houston, Tex., assignor of one-half to James P. Rogers, Harris County, Tex. Filed Apr. 18, 1922. Serial No. 555,079. Renewed Oct. 19, 1923. 4 Claims. (Cl. 294—115.)



1. The combination with a string of pipe, of an anchor, grappling members depending from the anchor, and movable into open and closed position, means normally holding said members in closed position, a device for actuating said members into open position and then releasing them to the influence of said closing means, and a releasably mounted locking ring disposed when released to lock around and secure said grappling members in position.

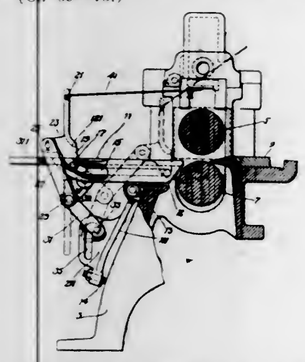
1,477,536. ZEROIZING DEVICE FOR CASH REGISTERS OR CALCULATING MACHINES. ERNST BREITLING, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed May 18, 1922. Serial No. 561,900. 4 Claims. (Cl. 235—144.)



1. In a machine of the character stated, comprising an operating mechanism, a main driving shaft, a plurality of totalizing counters and zero setting pinions connected with the totalizing counters, a zero setting member, a driving member for simultaneously actuating the zero setting pinions of all totalizing counters and a member

in the operating mechanism adapted to be moved by the main driving shaft and to be coupled with the said driving member upon adjusting the zero setting member, for the purpose of setting the totalizing counters to zero in the operation of the machine following the adjusting of the zero setting member.

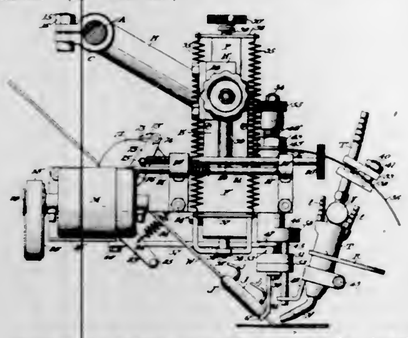
1,477,537. SAFETY DEVICE. DARIUS W. BUNKER, Quincy, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 4, 1922. Serial No. 604,833. 10 Claims. (Cl. 69—13.)



1. The combination with mechanism to which pieces of work are presented by an operator, of a table having a section adjacent the mechanism and an adjustable section movable into and out of operative position in which it forms an extension of the main section, and a guard adapted to be moved into and held in two positions, one near the mechanism and another more remote from the mechanism.

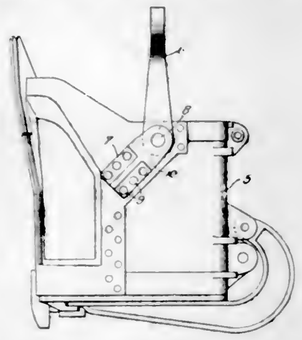
10. A machine for treating pieces of work having, in combination, mechanism to which the work is presented by an operator, a table, a guard movable into two operative positions, guiding means for the guard extending away from the mechanism, first in a direction substantially parallel to the table and then upwardly, an arm pivoted at one end to the guard, means for controlling the path of movement of the other end of the arm, a link connecting the arm with a stationary part of the machine, and an extension for the table carried by the link.

1,477,538. METHOD OF AND APPARATUS FOR WELDING METALS. GLENN O. CARTER, New Rochelle, and RAYMOND C. PIERCE, New York, N. Y., assignors to the Linde Air Products Company, a Corporation of Ohio. Filed Aug. 5, 1920. Serial No. 401,319. 72 Claims. (Cl. 113—59.)



1. Welding apparatus comprising means for heating a region embracing portions of the members to be welded, means for feeding filling material to a point within the heated region, and means for moving the heated part of the filling material along a sinuous path with respect to the members to be welded.

1,477,539. DIPPER. JOHN O'FALLON CLARK, Chicago Heights, Ill., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed Jan. 5, 1923. Serial No. 610,769. 7 Claims. (Cl. 214—145.)



1. The combination of a dipper body, a bail bracket fastened thereto, and a key forming an interlocking connection between the body and the bracket.

1,477,540. RAILWAY TIE. JOHN T. CLARK, Provo, Utah. Filed Sept. 25, 1922, Serial No. 590,264. Renewed June 9, 1923. 1 Claim. (Cl. 238—31.)



A railway tie comprising two channel-shaped members interlapped at their meeting ends and pivoted together; co-acting bolts connecting said members and limiting the pivotal movement thereof; a spring carried on said bolts; a rail seat in each of said members consisting of a transverse metal plate having its ends bent to engage the sides of said channel-shaped members; other portions of said plate shaped to rest on the bottom of said member and apertured with a transverse slot and a hole; other portions of said plate shaped to rest against and fastened to the sides of said channel-shaped member; a perforated clamp adapted to engage in said transverse slot at one end portion and on the base of a rail resting on said plate at the other end portion; and a bolt passed through said clamps and rail seat with a nut thereon to draw said clamps toward each other at their free ends.

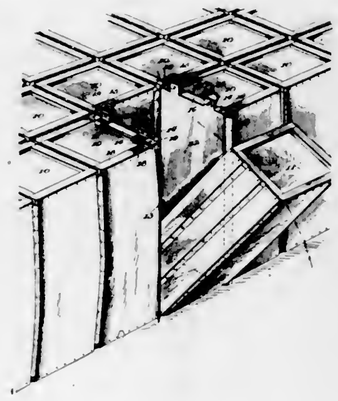
1,477,541. MOTION-PICTURE MACHINE. CLEMENT A. CLEMENT and AXEL BORS-KOEFOED, Houston, Tex.; said Bors-Koefoed assignor to said Clement, trustee. Filed Dec. 24, 1921. Serial No. 524,668. 2 Claims. (Cl. 88—16.6.)



1. A motion picture machine including a lamp house, a film arranged to move in front of the lamp house, and provided with pairs of similar images taken at optic angles to each other, an objective lens arranged in front of the film through which the films of the respective pairs

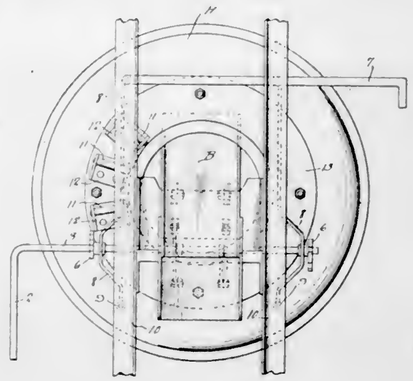
are alternately projected, a rotating disc arranged in front of the objective lens and provided with reversely arranged stereoscopic lenses through which the respective images of the pairs are successively projected.

1,477,542. PACKING GUIDE FOR FRUIT AND VEGETABLE CONTAINERS. GEORGE L. COMLOSSY, Toledo, Ohio. Filed Mar. 3, 1923. Serial No. 622,632. 6 Claims. (Cl. 214—6.)



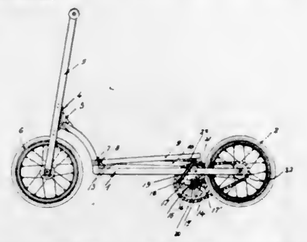
1. A guide to facilitate disposition of a commodity container between adjacent containers, consisting of a pair of slide plates engageable with and extendible along the opposing faces of the adjacent containers, each having a smooth inner surface and a flaring guide lip alongside one side edge.

1,477,543. CHUTE-OPERATING MEANS. JOHN DANIEL, Milwaukee, Wis., assignor, by mesne assignments, to Koehring Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 23, 1919. Serial No. 346,907. 13 Claims. (Cl. 83—73.)



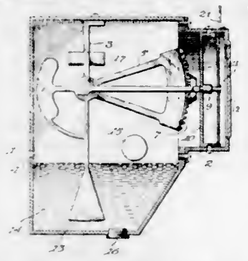
1. In combination a rotary mixer, a normally stationary chute coacting therewith, an actuating element for said chute on the mixer, trip means for moving the chute from one position to another, and means for adjusting at will the trip means and said element relatively to each other so as to cause operation of the chute.

1,477,544. PROPELLING MECHANISM IN PEDICYCLES. REMIGIUS D'ANTONIO, New York, N. Y. Filed July 14, 1922. Serial No. 575,094. 1 Claim. (Cl. 208—34.)



A vehicle comprising a substantially horizontally disposed frame, relatively close oppositely disposed bars carried by said frame and horizontally disposed, a driving wheel rotatably mounted between the rear ends of the bars, a transversely disposed drive shaft rotatably mounted on the bars forwardly of the driving wheel, driving connections between said shaft and the driving wheel, the forward ends of the bars curving upwardly and forwardly and merging together, a transversely disposed shaft extending through the bars adjacent their forward ends and on the curved portion thereof, depressible members disposed above the rear portion of the bars and pivoted to said last named shaft, crank connections between the rear ends of the depressible members and the drive shaft, whereby when one depressible member is in raised position the other depressible member is in lowered position, a guide wheel, a steering post carried by said guide wheel, said steering post being pivotally connected to the forward end of the curved portion of the frame.

1,477,545. GRADE METER. ROBERT G. DAY, Great Falls, Mont., assignor of one-half to Harold M. Mady, Great Falls, Mont. Filed Apr. 8, 1922. Serial No. 550,659. 2 Claims. (Cl. 330—22.)

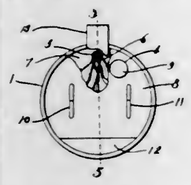


1. A grade meter including a casing, a vertically extending partition adjacent the forward end of said casing, a shaft journalled in said partition, a needle on the forward end of said shaft and a bevel gear on the opposite end thereof, an arm, a support on which said arm is pivoted, a lubricating receptacle mounted on said support, a segmental gear carried by said arm on one side of its pivot and operatively connected to said bevel gear, a counterbalancing weight carried by said arm on the other side of its pivot, and a weight depending from the pivot point of said counterbalanced arm.

1,477,546. GAS AND LIQUID CONTACT DEVICE. JOSEPH WILLIAM DEMPSEY, Lansing, Iowa. Filed Mar. 29, 1920. Serial No. 369,631. 1 Claim. (Cl. 261—30.)

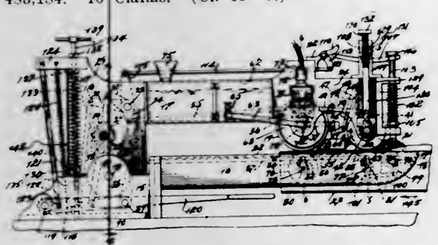
In a gas and liquid contact device, a hollow body portion, a partition in the body portion, said partition having an opening, a circular member having absorbing qualities

positioned on the partitioning member, a circular member having absorbing qualities disposed adjacent to the first mentioned circular member and arranged in spaced relation therewith, a wick having one of its ends positioned within the body portion, the opposite end of said wick including a plurality of sections disposed be-



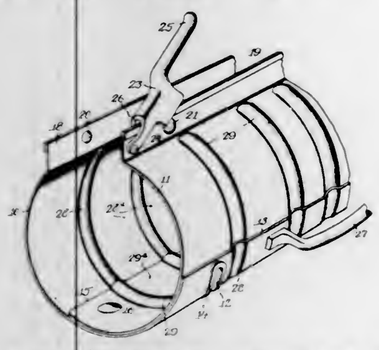
tween the circular members, the sections of the wick being disposed in spaced relation with each other, means for securing the circular members against movement, and a guard at the lower portion of the body and disposed in spaced relation with the circular members.

1,477,547. SEAM-PRESSING MACHINE. JACOB DENEMARK, Trenton, N. J. Filed July 8, 1921. Serial No. 483,184. 10 Claims. (Cl. 68—9.)



1. In a pressing machine, a support for the goods to be pressed, a rotatable pressing roller arranged to bear against the goods, means to intermittently operate the roller, dampening means arranged to apply water to the portion of the goods to be pressed, and means operable by the operating mechanism for the roller to control the application of water to the goods.

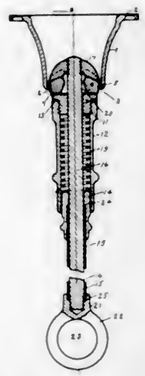
1,477,548. MEAT SHAPER AND PRESERVER. ALFRED M. DEMUTH, Chicago, Ill. Filed Dec. 5, 1921. Serial No. 519,917. 12 Claims. (Cl. 100—57.)



1. A meat shaper and preserver embodying two flexible body members, means adjustably connecting the members at one edge and for maintaining the members in their adjusted position, the opposite edges of the members being adapted to be brought into proximity to each other, and means for securing the last recited edges.

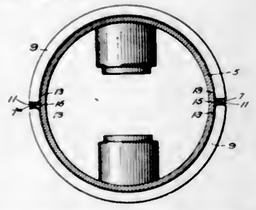
5. A meat shaper and preserver embodying two flexible body members, means adjustably connecting the members at one edge and for maintaining the members in their adjusted position, the opposite edges of the members being adapted to be brought into proximity to each other, and fastening devices for securing the last recited edges, the said members being provided with inwardly opening grooves, the grooves in one of the membes co-inciding with the respective grooves in the other member and overlapping.

1,477,549. BELL-CORD HANGER. JOSEPH ECKERT, Dayton, Ohio, assignor to The Dayton Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed Mar. 23, 1923. Serial No. 627,198. 2 Claims. (Cl. 248—31.)



1. In a bell cord hanger, the combination of a base adapted to be rigidly attached to a fixed support, a base-member secured within said base having a central opening and a plurality of oppositely disposed grooves formed in the top side thereof, a cap-member normally seated on said base-member having rib-members adapted to engage said grooves in the base-member and to rock thereon, a slidable casing located below said base-member and having its upper end surface in contact with the under surface of said base-member, a bottom portion adapted to receive and carry a bell cord, a rod connecting the latter with said cap-member and adapted to rock the same, and means whereby contact of said cap-member and said casing with said base-member is maintained.

1,477,550. PISTON RING. VICTOR J. EMERY, Wollaston, Mass. Filed May 3, 1922. Serial No. 558,193. 7 Claims. (Cl. 74—109.)



1. In combination with a divided piston ring, a spring having a tangentially compressible bowed portion directly interposed between the ends of the ring and having legs of sharper curvature than the ring underlying the same.

1,477,551. BELT ATTACHMENT. CALVIN ADDISON EVA, Austin, Tex. Filed Jan. 16, 1923. Serial No. 612,954. 1 Claim. (Cl. 24—11.)

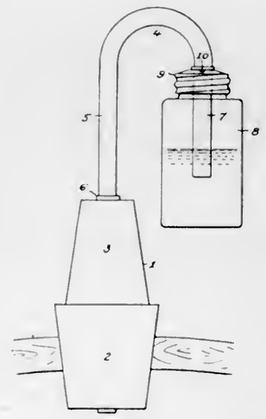
As an article of manufacture, a belt attachment formed from a single length of spring metal having its inter-

mediate portion formed with an open-sided loop adapted to receive a waist encircling belt, the upper and lower walls of said loop being inclined to engage the edges of said belt, the terminal portions of said length of metal being



extended outwardly in approximately parallel relation to define gripping members adapted to flatly contact with opposite sides of a writing pencil, and the terminal portions of said gripping members being extended inwardly to securely hold the pencil in position.

1,477,552. FERMENTATION BUNG. JOSEPH B. FISCHER, Chicago, Ill. Filed Jan. 25, 1923. Serial No. 614,937. 2 Claims. (Cl. 217—105.)

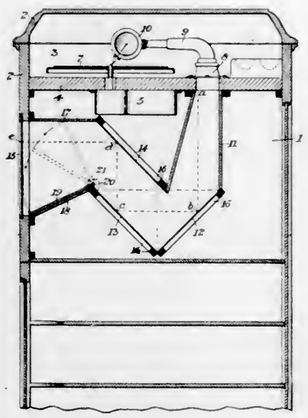


1. In a sealing bung for fermentation barrels, a bung body having a central orifice, a tube of a return bend shape having one leg fitted in said orifice, a closure cap secured to the other leg of said tube at the mid-height of the leg and provided with a vent orifice and a down-turned skirt portion, and an open top vessel having detachable engagement with said skirt portion and adapted to enclose the depending part of tube leg associated with the closure cap and maintain a sealing fluid around said leg end.

1,477,553. METHOD AND MEANS FOR AMPLIFYING AND PROJECTING SOUND. ELWOOD GRISSINGER, Buffalo, N. Y., assignor to Lucy Ash Grissinger, Buffalo, N. Y. Filed May 22, 1919, Serial No. 298,846. Renewed Apr. 4, 1923. 37 Claims. (Cl. 181—27.)

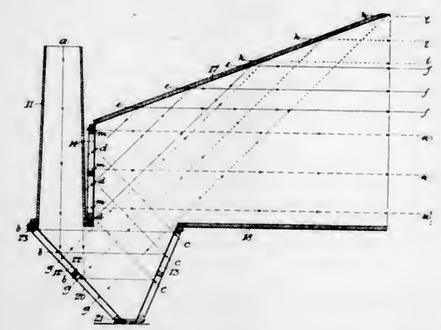
1. The method of amplifying and projecting air sound waves, which consists in permitting, guiding and limiting approximately uniform progressive expansion of the wave front on two opposite sides and, at the same time, on two other sides, directing the advance of the waves by successive high angle reflections from successive sensitive sonorous reflectors operating consonantly to reinforce as well as reflect the same, said sonorous reflectors being substantially plane and of successively greater areas.

15. A tubular projector of greater length than width to afford an air column to be traversed by the sound waves, said projector having certain of its walls non-sonorous



and progressively divergent, and, in other walls, thin flat sonorous reflectors arranged to successively reflect toward the outlet, sound waves proceeding from the inlet end of the projector.

1,477,554. SOUND PROJECTOR. ELWOOD GRISSINGER, Buffalo, N. Y., assignor to Lucy Ash Grissinger, Buffalo, N. Y. Filed June 20, 1919, Serial No. 305,601. Renewed Mar. 6, 1923. 8 Claims. (Cl. 181—27.)

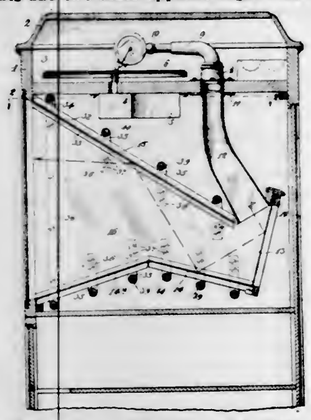


2. A sound projector having divergent walls affording an air column to be traversed by sound waves, and having a plurality of walls formed as reflectors, one of said reflectors comprising a rigid non-vibratory frame and a sensitive sonorous plate located, at approximately right angles to the path of reflex waves traveling backward from the open mouth of the projector, in combination with means for propagating sound waves into said projector and into impingement upon said sensitive plate reflector.

1,477,555. SOUND-AMPLIFYING PROJECTOR. ELWOOD GRISSINGER, Buffalo, N. Y., assignor to Lucy Ash Grissinger, Buffalo, N. Y. Filed Aug. 20, 1920. Serial No. 404,859. 18 Claims. (Cl. 181—27.)

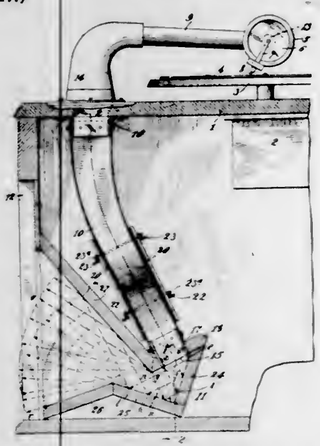
1. A sound-amplifying projector having as a wall portion thereof a sheet or plate having two opposite edges

each clamped between pairs of rigid, non-vibratory clamping elements and two other opposite edges free, in combi-



nation with means maintaining said plate stretched parallel with said free edges.

1,477,556. SOUND-PROJECTING APPARATUS AND METHOD. ELWOOD GRISSINGER, Buffalo, N. Y. Filed July 12, 1921. Serial No. 484,240. 39 Claims. (Cl. 181—27.)

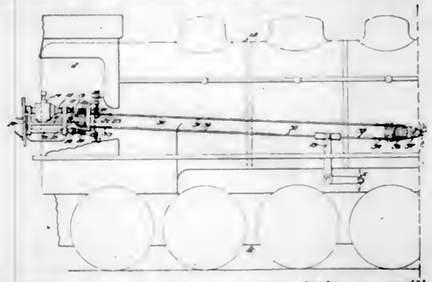


2. The method of expanding the wave front of complex sound waves to a given area, which method consists in rapidly expanding the beam in one dimension to the required width while maintaining its thickness below two inches and then affording similar rapid expansion in the other dimension.

13. A sound projector comprising a thin flat expansion conduit, rapidly diverging to great width as compared with its thickness, its thickness being less than 2 inches, the conduit being curved in the direction of its thinner dimension and discharging into a shorter conduit having a wide expansion angle in the direction of said thinner dimension.

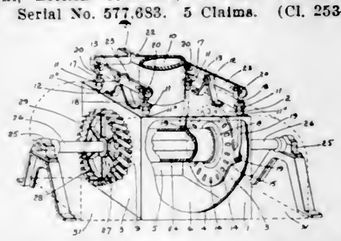
1,477,557. POWER REVERSE GEAR. WILLIAM GUENST, Philadelphia, Pa., assignor of one-half to Samuel S. Newman, Pittsburgh, Pa. Filed Oct. 25, 1920. Serial No. 419,232. 2 Claims. (Cl. 121—62.)

1. Reversing mechanism including a reversible motor; a shaft driven thereby; a worm wheel; a sprocket wheel connected with the worm wheel; a second sprocket wheel; a flexible connection between the sprocket wheels; a reversing link; an operative connection between the flexible connection and the reversing link; a worm having



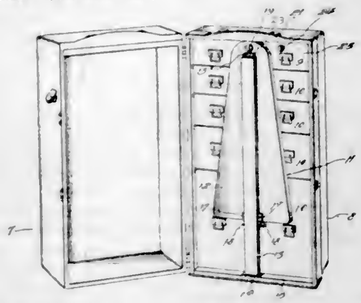
a jointed connection with the motor shaft; an auxiliary shaft; a worm having a jointed connection with the auxiliary shaft; means for engaging either worm with the worm wheel, and means for actuating the auxiliary shaft.

1,477,558. WATER WHEEL. WILLIAM HACKETT, Port Alberni, British Columbia, Canada. Filed July 26, 1922. Serial No. 577,683. 5 Claims. (Cl. 253—149.)



1. A water wheel device comprising a main shaft, a casing through which the main shaft extends having port openings in the opposing walls arranged concentrically to the main shaft, port rings turnably mounted within the casing having port openings adapted to be carried in and out of a registering position with the port openings of the casing, manual means for simultaneously adjusting the port rings at each side of the casing, and water wheels mounted upon the main shaft exteriorly of the casing at each side thereof and provided with buckets set in right and left angular positions on the periphery against which the water is adapted to be directed from the port openings at each side of the casing transversely in the corresponding wheel.

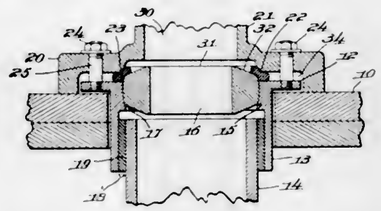
1,477,559. COMBINED DRAWER-LOCKING DEVICE AND IRONING BOARD FOR WARDROBE TRUNKS. BEN M. HAMLIN, Chicago, Ill., assignor to J. V. Meyering Trunk Company, Chicago, Ill., a Corporation of Illinois. Filed July 15, 1920. Serial No. 396,539. 11 Claims. (Cl. 190—13.)



1. The combination with a wardrobe trunk comprising a drawer section, of a combined drawer locking device and ironing board comprising an ironing board arranged

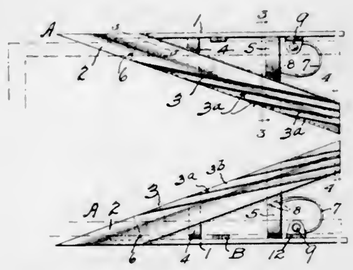
to extend across the drawers, a leg connected thereto, and lock-controlled means for securing said ironing board across the drawers of the drawer section, the trunk and leg acting also to support the ironing board in ironing position.

1,477,560. FLOOR CONNECTION FOR SOIL PIPES AND THE LIKE. JOSEPH P. HEENEY, Medford, Mass. Filed Aug. 5, 1921. Serial No. 490,047. 10 Claims. (Cl. 285—34.)



1. In a device of the class described, a receptacle having an opening therein; a pipe adapted to coact with said opening for the passage of liquid therethrough; a gasket intermediate said opening and said pipe; and a compensating annulus intermediate said opening and said pipe whereby said gasket is compelled to perform its intended function, said annulus having an internal diameter smaller than said opening for the purpose described.

1,477,561. BEET LIFTER. JOHN M. HENTON, Hot Springs, S. Dak. Filed July 2, 1921. Serial No. 482,235. 13 Claims. (Cl. 55—106.)



1. A digging unit of the class described including a plow element consisting of a rigid land bar, and a share blade yieldingly carried thereby.

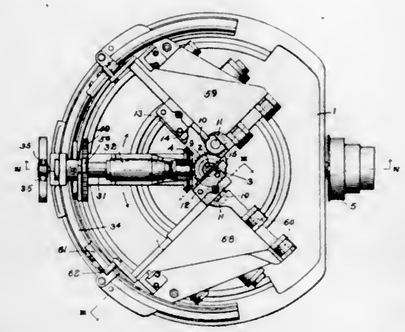
4. A digging unit of the class described including a pivotally supported plow element including a yieldingly mounted share blade.

7. A digging unit of the class described including a plow element having a relatively fixed share blade provided with a plurality of inclined ribs arranged to progressively lift the beet from the ground.

11. A digging unit of the class described including a plow element having a substantially conical face provided with a plurality of inclined ribs arranged to progressively lift the beets from the ground.

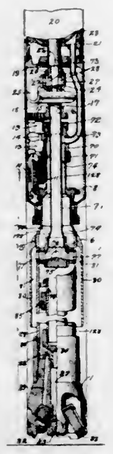
1,477,562. GEAR CUTTING. ROBERT L. HIBBARD and FRED W. WAPPAT, Pittsburgh, Pa. Filed Jan. 24, 1922. Serial No. 531,359. 10 Claims. (Cl. 90—9.)

1. In combination in a gear tooth planing machine, a support for a gear to be cut, a cutter having a plurality of cutting teeth arranged one behind the other in series, means for moving the cutter longitudinally of the gear tooth to be cut, means for securing a feed of the cutter toward the base of the gear tooth as the cutter moves forward, and means for securing a movemen of the



cutter laterally from the line of said feed to produce the desired tooth curvature, comprising a cam having a curvature corresponding to the desired tooth curvature and arranged to operate through reducing means to rock the cutter from said line of feed.

1,477,563. WELL-DRILLING APPARATUS. HERMAN CLYDE HIRSCHFELD and ROBERT S. MAYER, Eastland, Tex. Filed Oct. 4, 1920. Serial No. 414,578. 30 Claims. (Cl. 255—4.)

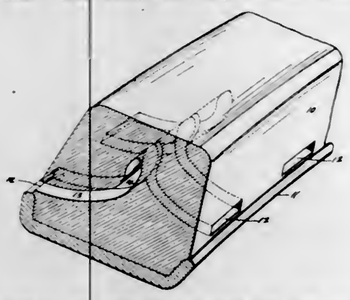


1. In a well drilling apparatus that enters the hole or bore, a bit or drilling unit, a motor or driving unit to provide power, and a slidable clutch unit to react against the torque of drilling, and to control the operation of the motor.

1,477,564. RESILIENT TIRE. EDISON G. HULSE, Cumberland, Md., assignor to Kelly-Springfield Tire Company, Cumberland, Md., a Corporation of New Jersey. Original application filed Mar. 22, 1923, Serial No. 626,854. Divided and this application filed Apr. 26, 1923. Serial No. 634,744. 10 Claims. (Cl. 152—1.)

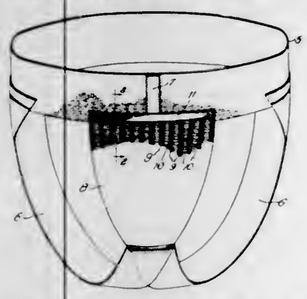
10. A resilient tire having circumferentially extensive resiliency-imparting subtread voids originating alter-

nately in orifices near the tire base in the opposed side walls, said voids being arcuately inclined from said



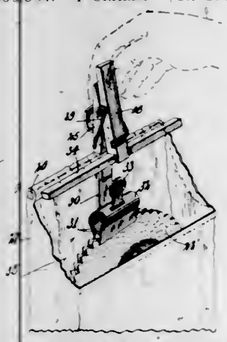
origin toward the tread and terminating relatively close thereto.

1,477,565. ATHLETIC SUPPORTER. WILLIAM F. JENKINS, New Rochelle, N. Y., assignor to Bauer & Black, Chicago, Ill., a Corporation of Illinois. Filed Oct. 23, 1922. Serial No. 596,263. 3 Claims. (Cl. 128—160.)



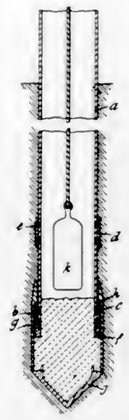
1. An athletic supporter comprising an elastic waist band, a sack fastened at its upper edge to the waist band, leg bands fastened to the waist band and to the lower end of the sack, and an elastic binding strip for fastening the sack to the waist band, said binding strip being extensible in the same direction as the waist band.

1,477,566. HAT AND GARMENT HOLDER. BENEDYKT A. KASZINSKI, New York, N. Y. Filed Dec. 13, 1922. Serial No. 606,564. 4 Claims. (Cl. 150—5.)



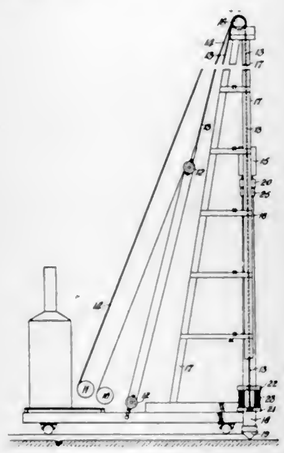
1. A device of the class described comprising a fixed jaw-bar, a spring-pressed jaw-bar mounted on said fixed jaw-bar, a cross-piece on the lower end of said fixed jaw-bar, a bag depending from said cross-piece, a flap on said bag, and a cross-piece on the movable jaw-bar adapted to grip said flap.

1,477,567. PREPARATORY PILE USED IN THE CONSTRUCTION OF CONCRETE PILES. HENRY PERCY LANCASTER, London, England. Filed Jan. 29, 1923. Serial No. 615,606. 2 Claims. (Cl. 61—78.)



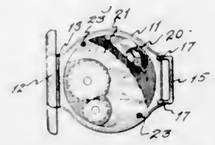
1. A preparatory pile, a collar at the lower end of the pile, a second collar on the pile spaced from the first collar, a sleeve of a diameter greater than that of the first collar and passing thereover, and a flange on the sleeve between the collars and of less diameter than either collar whereby the pile may have a limited movement independent of the sleeve thus ensuring the production of a permanent pile larger than the preparatory pile.

1,477,568. APPARATUS FOR USE IN THE CONSTRUCTION OF CONCRETE PILES. PERCY NOEL LANCASTER, London, England. Filed Jan. 29, 1923. Serial No. 615,607. 11 Claims. (Cl. 61—74.)



1. In pile withdrawing machinery, means for driving the pile, a winding mechanism, a rope adapted to withdraw the pile and connected to the winding mechanism, two collars slidably mounted on the pile, a spring between the collars, a stop fixed to the pile and adapted to engage the upper collar, and a connection between the lower collar and the rope.

1,477,569. WATCHCASE. JOSEPH LASKO, New York, N. Y., assignor of one-half to Abraham Lasko and Max Lasko, both of New York, N. Y. Filed Aug. 14, 1922. Serial No. 581,802. 4 Claims. (Cl. 58—88.)



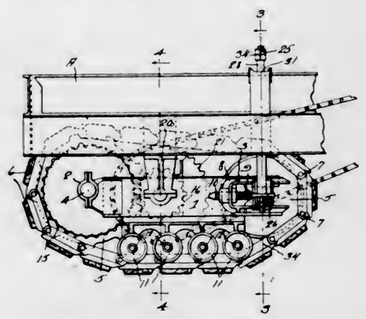
1. A watch case comprising a front cover, a back cover hinged thereto, a ring adapter removably secured in the front cover to support a watch movement, means to secure the movement in said adapter, ribbon attaching means at the sides of the front cover, and means associated with one of said attaching means for holding the covers normally in closed relation.

1,477,570. METHOD OF MAKING BALL BEARINGS. OTTO HERMANN LEHMANN, Lancaster, Pa., assignor to The Bearings Company of America, Lancaster, Pa., a Corporation of New Jersey. Filed Sept. 2, 1922. Serial No. 585,851. 2 Claims. (Cl. 29—149.5.)



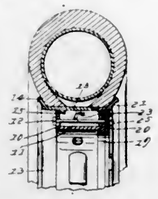
1. The method of making ball bearings which consists in providing a suitable blank, cutting a concentric groove from one face of the blank, cutting a concentric groove of different radius from the other face of the blank to meet the first cut and thereby forming two members of the bearing, and finishing such members.

1,477,571. TRACTOR. ERICH H. LICHTENBERG, Milwaukee, Wis., assignor, by mesne assignments, to Koehring Company, Milwaukee, Wis., a Corporation of Wisconsin. Original application filed Feb. 26, 1919, Serial No. 279,235. Divided and this application filed Jan. 28, 1920. Serial No. 354,546. 3 Claims. (Cl. 180—9.1.)



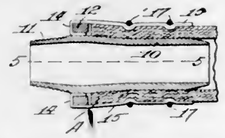
1. A traction device, comprising a frame, an endless tread operating on said frame, a transversely disposed load supporting shaft engaging an intermediate portion of the frame and about the axis of which the frame is adapted to rock, a drive wheel loosely mounted on the said load supporting shaft, a drive connection between the drive wheel and the endless tread, and means for applying power to the drive wheel, said drive wheel rotating in such a direction as to tend to lift an end portion of the frame.

1,477,572. RIM FOR WHEELS. CHARLES E. LONN, Viola, Ill. Filed Nov. 27, 1922. Serial No. 603,580. 2 Claims. (Cl. 301—11.)



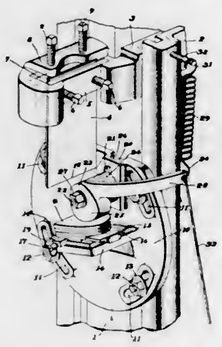
1. In a sectional rim for wheels, a section having a tire flange, lugs on said section adapted to engage the edge of a felly, tongues formed integral with the opposite edge of the said section, said tongues having flanges, a coacting rim section having a tire flange interengaging the first mentioned section and having openings to receive the tongues, a split ring applied to the second mentioned section and engaging the flanges of the tongues, and means for holding the split ring in place.

1,477,573. HOSE CLAMP. JOHN R. LOWREY, San Pedro, Calif. Filed Dec. 9, 1920. Serial No. 429,538. 10 Claims. (Cl. 285—84.)



1. In a hose clamp, a nipple, a separately formed collar adapted to be seated by deformation and thereby clamped thereupon adjacent to one end and hose engaging members clamped to said collar and lying substantially parallel with the body of said nipple.

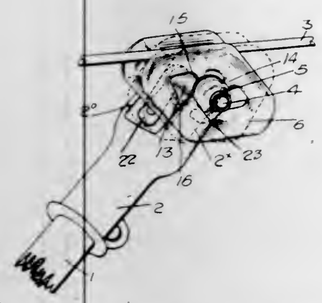
1,477,574. HEEL-BREASTING MACHINE. THOMAS LUND, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 15, 1919. Serial No. 338,291. 17 Claims. (Cl. 12—47.)



2. In a machine for beveling the breast edge of a spring heel lift, the combination of a knife movable in a predetermined path, a rest for supporting a spring heel lift for the action of the knife, means for adjustably connecting the rest to the machine frame for movement about an axis passing transversely of the rest through the line of cut made by the knife, and a clamp carried by the rest for engaging the upper surface

of the spring heel lift and clamping it upon the rest in any position of rest adjustment, said clamp having a movement lengthwise of the heel while in engagement with the heel.

1,477,575. TROLLEY SHOE. ROBERT JOHN LYLE, Kinmount, Ontario, Canada. Filed Feb. 10, 1923. Serial No. 618,299. 4 Claims. (Cl. 191—59.1.)

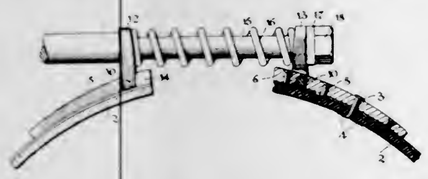


1. A sliding trolley shoe adapted to be mounted on a harp, providing a wearing or wire engaging groove substantially diamond shape in form.

1,477,576. MANUFACTURE OF MOLDED ARTICLES, MORE PARTICULARLY HEELS AND SOLES FOR FOOTWEAR. LOGAN MCFARLANE, Halton, near Leeds, England. Filed Oct. 11, 1923. Serial No. 668,005. 3 Claims. (Cl. 92—21.)

1. In the manufacture of articles, more particularly heels and soles for footwear from a cellulose fibrous composition by moulding, pressing and drying, a method of rendering the cellulose fibrous composition more or less waterproof after compression in the mould, consisting in adding to the wet disintegrated cellulose fibre a sizing and binding composition comprising resinate of soda and an adhesive material of animal origin, precipitating the sizing by the addition of a precipitant, heating the cellulose fibrous mixture to about 180° F., putting same into a hot mould and subjecting to pressure, substantially as described.

1,477,577. CLUTCH BAND. JOSEPH MALLIGAN and CHARLES R. LITTLE, Point Marion, Pa. Filed Mar. 16, 1923. Serial No. 625,544. 3 Claims. (Cl. 188—249.)



2. A friction or clutch band comprising a resilient metal split band, T-shaped cleats secured to the metal band adjacent to the free ends of the split band, said cleats being provided with transverse sockets adjacent their heads, a pin pivotally mounted in the socket, ears rigidly connected to the ends of the pin in spaced parallel relation, the head of the T-shaped lug being adapted to act as stops for limiting movement of the ears in one direction and for maintaining said ears in a substantially vertical position, said pins being connected to the ears at one side of a vertical plane passing through the middle of the ears.

1,477,578. FOUNTAIN STENCIL AND MARKING BRUSH. WALT C. MARSH, Belleville, Ill. Filed Apr. 4, 1921. Serial No. 458,360. 1 Claim. (Cl. 251—137.)



In a device of the class described, a valve-holding member having an ink-inlet, an ink-outlet and a bore connecting said ink-inlet and said ink-outlet, with a valve-chamber extending through said bore; a screw-plug mounted in the mouth of said valve-chamber and having a groove upon its outer face; a valve seated in said valve-chamber and having a stem extending through said screw-plug and a cap fixed to the outer end of said stem, said cap having teeth arranged to engage with the groove of said screw-plug.

1,477,579. RIVET HOLDER. JOSEPH MATONICK, Ashley, Pa. Filed Feb. 13, 1922. Serial No. 536,087. 3 Claims. (Cl. 78—53.5.)



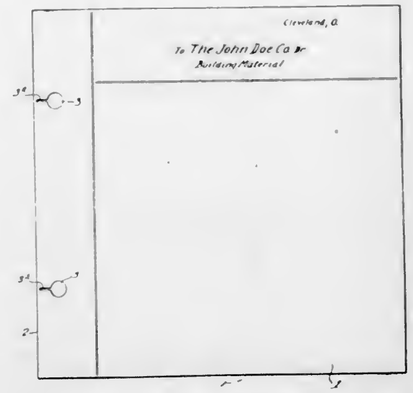
1. In a rivet holder, a tubular member, a bar slidably engaged therein, said tubular member having a series of longitudinal slots of varying length united at one end by a transverse slot, a projection on said bar adapted to engage in any one of said longitudinal slots, and a spring in the tubular member pressing outwardly against said bar.

1,477,580. CONDUCTOR SUPPORT. SAMUEL S. MATTHES, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Oct. 1, 1923. Serial No. 665,773. 13 Claims. (Cl. 191—37.)



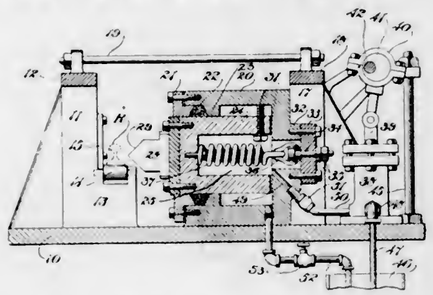
1. An article of manufacture comprising a member provided with a plurality of radiating arms, means on the end of each arm to engage and grip a conductor, a second member mounted above the first member and secured thereto and having means to engage and grip the trolley conductors and means on the first member to permit a current collector to pass from one arm to a diametrically disposed arm.

1,477,581. FORM SHEET. GEORGE A. MAYER, Lakewood, Ohio, assignor to The Mani-Fold Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 21, 1922. Serial No. 583,094. 2 Claims. (Cl. 129—1.)



1. A form sheet of the character described having adjacent its filing edge a relatively large aperture for the reception of a filing post and a slot extending from the edge of said aperture nearest the aforesaid edge of the sheet to within a relatively short distance of such edge.

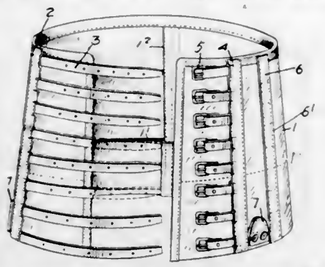
1,477,582. RAIL-BREAKING MACHINE. DAVID H. MILLER and ABNER MILLER, Los Angeles, Calif., assignors to Metal Supply Company, Los Angeles, Calif., a Corporation of California. Filed Dec. 22, 1921. Serial No. 524,264. 6 Claims. (Cl. 29—66.)



1. A rail breaking machine comprising a cylinder, a plunger arranged for operation therein, a punch carried by one end of the plunger, means for delivering fluid under pressure into said cylinder for moving the plunger within the cylinder, and members adjustable in the plunger and engaging the cylinder to prevent canting of the plunger.

1,477,583. ABDOMINAL AND KIDNEY BELT. ADDA S. MONTGOMERY, Chippewa, Ontario, Canada. Filed June 23, 1921. Serial No. 479,957. 3 Claims. (Cl. 2—188.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

3. An abdominal belt comprising a thin flexible fabric band having its ends brought adjacent to form a belt opening and having its lower edge folded up and secured at its upper edge to the fabric so as to form a reinforcing band, an upright double fold formed at the back of the belt and extending to the bottom thereof through the reinforcing band, a strip secured to the belt at one side of the opening, a plurality of tongue straps fastened in the strip, an upright strip secured to the opposite side of the opening and buckle straps carried thereby, corresponding in number to the aforesaid tongue straps all of



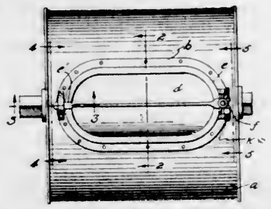
which are independently adjustable, means for holding the ends of the tongue straps when buckled, close to the band, fasteners at the bottom edge of the band and crotch straps connected to the fasteners.

1,477,584. PICKER STICK. FRANK MOSSBERG, Attleboro, Mass., assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass., a Corporation of Massachusetts. Filed Oct. 31, 1922. Serial No. 598,115. 11 Claims. (Cl. 139—159.)



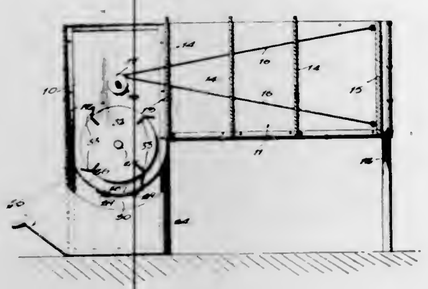
11. A metal picker stick formed of a channel bar having crimped or wavy edges and having inturned edges to form a bearing for a picker.

1,477,585. CONTAINER LID. FREDERICK OWEN, Detroit, Mich. Filed Jan. 16, 1922. Serial No. 529,647. 9 Claims. (Cl. 220—57.)



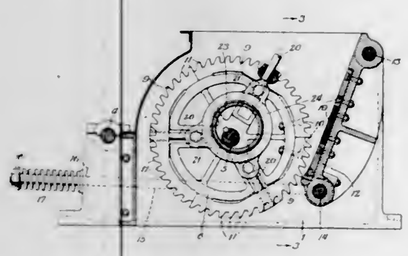
1. The combination of a container having an opening enclosed by a rim, a clip supported adjacent the rim, a detachable lid provided on one side with an integral ear interposed through said clip, an adjustable cap screw and lock nut screwing into the ear, and means for clamping down the opposite side of the lid, said means reacting through the engagement of the screw with the clip to cause the lid to bear firmly against the rim all along the same.

1,477,586. FEED-MIXING DEVICE. CHARLEY THOMAS PATTERSON, Springfield, Mo. Filed Feb. 15, 1923. Serial No. 619,246. 3 Claims. (Cl. 259—25.)



1. A feed mixer including an upright mixing box having a mixing chamber and a mixing device within said chamber, a feed box in communication at one end with the upper portion of the mixing box, a frame of which the mixing and feed boxes form parts, having uprights certain of which project at their upper portions along opposite sides of the discharge end of the feed box to form stops, a feed plate shiftable lengthwise of the feed box, and partition plates insertable within the feed box and movable therein against the said stops.

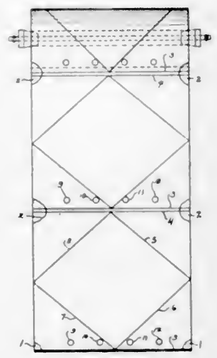
1,477,587. CRUSHING MACHINE. AUGUSTUS T. PERKINS, Oak Park, Ill., assignor to Webster Mfg. Company, Chicago, Ill., a Corporation of Ohio. Filed May 6, 1922. Serial No. 558,856. 14 Claims. (Cl. 83—14.)



1. In a crushing machine, the combination of a rotary crushing roll having teeth each projecting at a fixed angle from the exterior thereof, a breaker plate arranged in operative relation to said roll, the space between the roll and the breaker plate forming a hopper for the materials to be crushed, means to rotate said roll, and instrumentalities operated automatically by the rotation of the roll and revolving therewith to in effect merely push the teeth outward and to positively pull the teeth inward, when the roll is operated, so that the angle of the teeth to the roll is maintained, whereby said crushing roll and said teeth have relative movement to prevent the teeth from striking said plate.

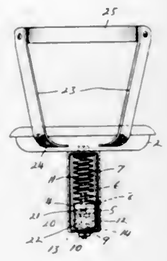
1,477,588. MANUFACTURE OF ROLLED WRAPPING PAPER. WILLIAM CLARENCE PICKELL, Highland Park, Mich. Filed Dec. 24, 1921. Serial No. 524,770. 4 Claims. (Cl. 93—1.)

3. As an article of manufacture a continuous strip of paper provided with gummed spots on the front face and on two division guide lines, said guide lines and gummed spots being in pairs and each pair of gummed



spots being spaced from the adjacent pair a distance substantially equal to the length of the division guide lines themselves.

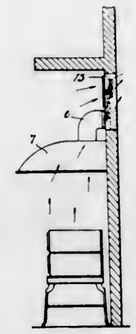
1,477,589. VEHICLE SEAT CONSTRUCTION. FRANK J. PITCOLE, River Rouge, Mich., assignor to Whitehead & Kales Company, River Rouge, Mich., a Corporation of Michigan. Filed Jan. 15, 1923. Serial No. 612,756. 3 Claims. (Cl. 155—51.)



1. In a seat construction for vehicles, the combination with a seat, of a frame engaging said seat, a spring carried by said vehicle and extending between the sides of said frame, ab olt securing said frame to said seat, said spring slidably engaging said bolt, yieldable means between said spring and an end of said frame, and a member between said spring and the other end of said frame cooperating with said spring and the sides of said frame to form a housing for lubricant around said bolt, said member being secured to said spring.

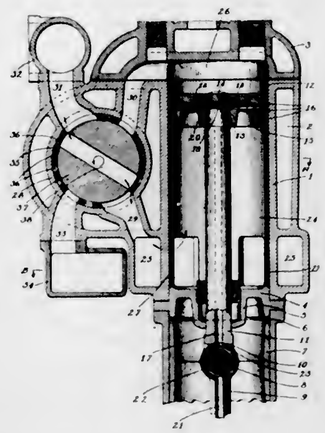
1,477,590. KITCHEN VENTILATOR. WALTER R. POWELL, New York, N. Y. Filed May 23, 1916, Serial No. 99,292. Renewed Mar. 29, 1923. 2 Claims. (Cl. 98—27.)

2. In a kitchen ventilator the combination with a range having a hood and a flue therefor, said flue having two openings in its vertical wall, fans supported adjacent said openings, a conduit from said hood to said lower fan, power transmitting connections between said



fans whereby the fan nearer said hood operates as a motor to drive the other fan and increase the volume of gas through the other flue opening.

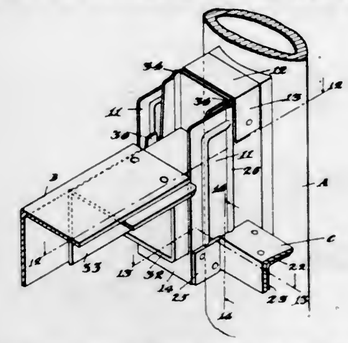
1,477,591. INTERNAL-COMBUSTION ENGINE. SYDNEY I. PRESCOTT, New York, N. Y. Filed Dec. 23, 1920. Serial No. 432,653. 11 Claims. (Cl. 123—74.)



7. In an internal combustion engine, the combination with a closed cylinder constructed of cast iron, of a piston working therein and dividing said cylinder into an induction chamber and a combustion chamber, a valve housing having a port connection with said chambers, and a rotary valve working in said housing and controlling influxion to said induction chamber and effluxion from said combustion chamber, said valve being constructed of an alloy composed of approximately 70% of iron and 30% of nickel.

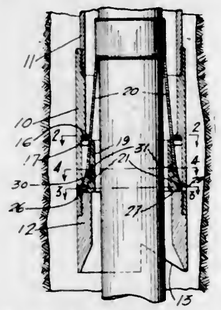
1,477,592. BED-RAIL FASTENER. ALEXANDER S. PUTNAM, Los Angeles, Calif. Filed Aug. 30, 1921. Serial No. 496,904. 5 Claims. (Cl. 5—296.)

1. In a bed rail fastening device, a post engaging member including a pair of spaced side walls, a transversely disposed web arranged between the lower portions of said side walls, and a reversible rail engaging member adapted to be positioned between said side walls and



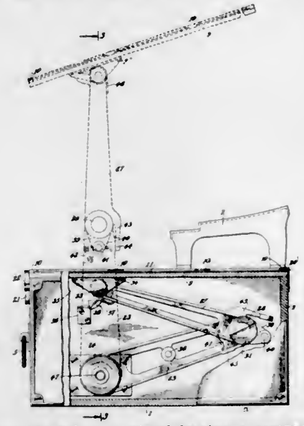
provided with notches on its upper and lower sides which are adapted to receive said transversely disposed web.

1,477,593. OVERSHOT FISHING TOOL. JOHN B. REILLY, Whittier, and CHARLES H. STONE, Brea, Calif. Filed Oct. 20, 1921. Serial No. 508,958. 8 Claims. (Cl. 294—113.)



1. In a fishing tool, a tubular body, a ring rotatively arranged within said body, a series of jaws carried by and projecting upwardly from said ring, and springs on said ring beneath said jaws.

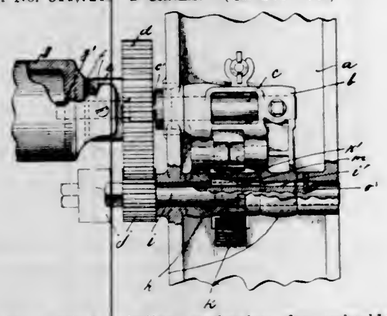
1,477,594. SHOE-SHINING DEVICE. JOHN S. REILLY and FRANK R. LYNCH, New York, N. Y. Filed June 5, 1922. Serial No. 565,866. 11 Claims. (Cl. 15—265.)



1. A boot black box or stand having a compartment for implements, a closure therefor, movable from its seated

position to give access to the compartment, and means for holding said closure, when opened, in an elevated position, said closure being adapted to carry advertising or display matter.

1,477,595. FABRIC-WINDING MECHANISM. ROBERT REINER, Weehawken, N. J. Filed Oct. 31, 1921. Serial No. 511,721. 2 Claims. (Cl. 242—55.)



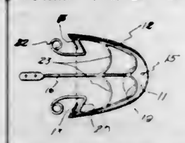
2. In a fabric winding mechanism for embroidering machines or the like, the combination with the fabric roller, of a rotary shaft, a gear fixed on said shaft and having a projection, said roller having ears engaging said projection, a longitudinally displaceable shaft a ratchet thereon, a pawl cooperating with said ratchet and a gear fixed to said displaceable shaft to mesh with said first named gear, said last named gear being capable of being brought out of mesh with said first named gear by displacing said second shaft to enable the turning of the fabric roller by hand.

1,477,596. MEANS FOR SUPPORTING AERIAL CABLES. FREDERICK L. RHODES, Short Hills, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 5, 1919. Serial No. 342,660. 5 Claims. (Cl. 173—251.)



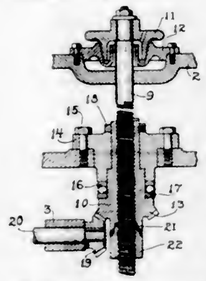
5. In a supporting mechanism, the combination of supporting means, a flexible object to be supported and a plurality of connecting means of various lengths so disposed along said supporting means as to support the said flexible object in a series of loops, the sag of which is determined and controlled by the said connecting means.

1,477,597. UNIVERSAL CLASP. GEORGE H. SCHNEIDER, Rockaway Beach, N. Y. Filed Jan. 30, 1923. Serial No. 615,857. 1 Claim. (Cl. 24—230.)



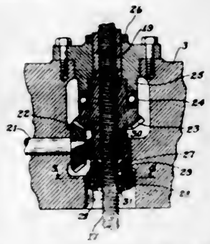
A clasp comprising a flat shield shaped socket having an opening at the front, inreaching angular walls at the ends of the opening, a rod having symmetrically branched resilient members enterable in the opening, hooks on said branches engageable against the inner sides of said angular walls, integral reenforcements interposed between said rod and each of said branches, and means for contracting said branches to permit their withdrawal from said socket.

1,477,598. SAFETY DEVICE FOR RADIAL DRILLS. WILLARD T. SEARS, Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 29, 1922. Serial No. 609,704. 14 Claims. (Cl. 74—40.)



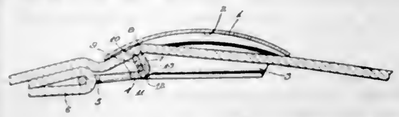
10. In a drilling machine, the combination of a column, an arm movable vertically thereon, a screw supported on the column normally against rotation, a nut normally supporting the arm and threadedly engaging the screw, means for rotating the nut, and means cooperating with the nut and screw to connect such elements whereby the screw rotates with the nut after the nut threads have become worn a predetermined amount.

1,477,599. SAFETY DEVICE FOR RADIAL DRILLS. WILLARD T. SEARS, Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 26, 1923. Serial No. 621,301. 9 Claims. (Cl. 74—40.)



1. In a machine of the class described, the combination of a supporting member, a member movable vertically thereon, means comprising an interengaging nut and screw normally operative to elevate the movable member, the screw being mounted in one member and the nut in the other member, means for normally holding one of the elevating elements against rotation, means for rotating the other element, and means connected to the nut and having a screw engaging portion normally disengaged from the screw, the said portion being adapted to be automatically engaged with the screw to prevent dropping of the movable member upon abnormal downward movement of the nut on the screw.

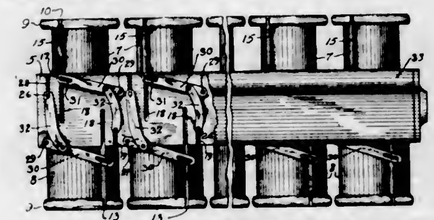
1,477,600. BELT BUCKLE. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Aug. 19, 1922. Serial No. 582,931. 5 Claims. (Cl. 24—191.)



1. The combination with a buckle frame having a clamping surface, of a clamping member pivoted to said frame and having a main body portion formed of sheet material provided with a laterally turned portion and

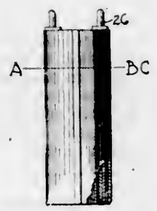
a separately formed elongated gripping piece secured to the main body portion parallel with the axis of turning of said member abutting said laterally turned portion, and provided with a clamping edge, the main body portion having an opening formed therein on the side of the separately formed gripping piece opposite the side abutting the laterally turned portion to provide a strap anchoring loop.

1,477,601. HYDRAULIC EXPANSION BAR. DAVY VANCE SICKMAN, Denver, Colo. Filed Sept. 19, 1921. Serial No. 501,811. 7 Claims. (Cl. 138—10.)



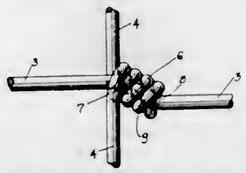
1. A hydraulic expansion bar having a chamber therein, a piston in said chamber, means comprising a liquid under pressure for moving said piston outwardly in said chamber and means for automatically returning said piston to its initial position when the pressure is removed from said liquid, said means comprising a spring secured to said bar, a lever having one end pivoted to said bar, a pivoted link connected to said spring and to a point intermediate the ends of said lever, a bolt connected to the head of said piston and having a pin and slot connection with said lever.

1,477,602. ELECTRICAL HEATING UNIT. MAURICE SIMON, St. Louis, Mo. Filed Apr. 25, 1921. Serial No. 464,202. Renewed May 5, 1923. 7 Claims. (Cl. 219—67.)



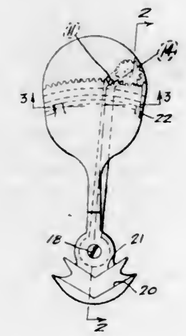
1. In an electrical heating unit the combination of an electrical resistor, a casing of heat conducting material therefor, and a spring adapted to press the casing against an object to be heated.

1,477,603. FARM AND POULTRY FENCE. WILLIAM H. SOMMER, Peoria, Ill., assignor to Keystone Steel & Wire Company, Bartonville, Ill., a Corporation of Illinois. Substitute for application Serial No. 521,534, filed Dec. 10, 1921. This application filed May 10, 1922. Serial No. 638,150. 2 Claims. (Cl. 245—8.)



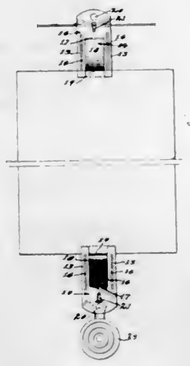
2. In a wire fence, in combination, a strand wire provided at intervals with reverse bends connected by short obliquely disposed portions, and stay sections having intercoiled ends wrapped around said strand wire between the reverse bends therein, said coils being disposed at an oblique angle to the perpendicular line of the stay sections.

1,477,604. FOOT ACCELERATOR FOR AUTOMOBILE ENGINES. HERBERT V. SOUDERS, Wilmington, and JESSE M. FROST, Long Beach, Calif. Filed Sept. 22, 1921. Serial No. 502,326. 6 Claims. (Cl. 74—81.)



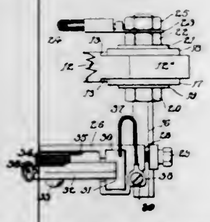
1. A pedally operated accelerator actuating device comprising a foot plate pivoted for lateral swinging movement, an arcuate rack formed on the forward portion of said plate, a journaled shaft, a pinion fixed on said shaft and engaging with the teeth of said arcuate rack, and connections from said journaled shaft to the throttle of a carburetor.

1,477,605. SPRING CLIP. EDWARD STEIGERWALD and FRANK L. H. PFEIL, Philadelphia, Pa. Filed Aug. 10, 1922. Serial No. 580,829. 5 Claims. (Cl. 24—259.)



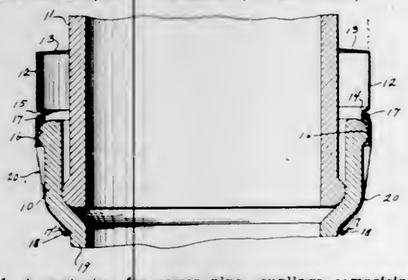
1. A spring clip consisting of a single plate of spring metal stamped to provide a central tongue member and a side member cut from and extending along the side of said tongue member, one of said members having a longitudinal re-enforcing ridge making it comparatively rigid and the other member being curved and forming a spring member, and a transverse member at the end of said spring member, bent to contact with said rigid member thereby forming resilient gripping jaws.

1,477,606. BRUSH RIGGING FOR ELECTRIC MOTORS AND GENERATORS. ARTHUR G. SUTCLIFFE, Chicago, Ill., assignor to Ilg Electric Ventilating Company, Chicago, Ill., a Corporation of Louisiana. Filed Feb. 8, 1923. Serial No. 617,884. 7 Claims. (Cl. 171—324.)



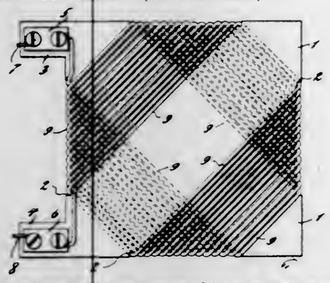
1. In a brush rigging for electric motors and generators, the combination of a rocker arm having a round hole formed therethrough, an insulating bushing in said hole formed with a polygonal bore and projecting beyond a side of said rocker arm, a stud of corresponding polygonal cross-section fitted into said bushing and projecting beyond the ends of the latter, clamping means for securing said stud in said rocker arm including a washer non-rotatably mounted on said bushing, co-operating means on said rocker arm and washer preventing turning movement of the latter, and a brush holder mounted on said stud.

1,477,607. COUPLING GUARD. HUGH CASSERLY SWEENEY, Minneapolis, Minn. Filed July 31, 1922. Serial No. 578,756. 6 Claims. (Cl. 285—115.)



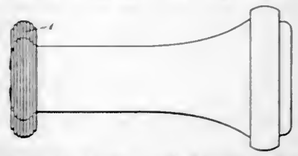
1. A protector for sewer pipe couplings comprising a continuous strip of metal in circular form provided at one end with a flange and at the opposite end with an internal shoulder, and means for attaching the strip in position upon a coupling.

1,477,608. INDUCTANCE UNIT. ALEXANDER TAYLOR, Flushing, N. Y. Filed June 18, 1921. Serial No. 478,495. 11 Claims. (Cl. 175—359.)



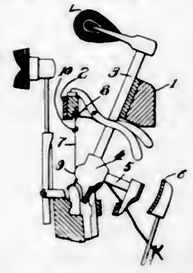
1. An inductance unit comprising a thin sheet of a suitable dielectric material, and an insulated conductor wound across the faces thereof with the portion of the winding upon one face extending in a direction transversely of that upon the other face.

1,477,609. TELEPHONE-RECEIVER ATTACHMENT. GEORGE K. THOMPSON, Maplewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 21, 1923. Serial No. 633,753. 6 Claims. (Cl. 179—178.)



1. A telephone receiver attachment designed to fit over the terminal end of the receiver, said attachment comprising a ring having an irregular exterior surface, and a circular spring imbedded in said ring.

1,477,610. METHOD OF AND TOOL FOR REPLACING BROKEN HAMMER-BUTT SPRINGS. WILLIAM JAMES TIFFANY, Brockton, Mass. Filed July 15, 1922. Serial No. 575,398. 13 Claims. (Cl. 29—87.1.)

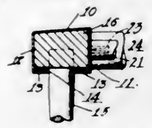


1. The method of replacing the hammer butt spring of a piano action which consists in providing the replacement of springs with a tack holding portion disposed to releasably retain a tack with its point positioned for penetration into one face of the hammer spring rail of the piano action, in temporarily assembling said spring and tack upon an inserting device, in applying said device to opposite faces of the spring rail to press the tack into one face of said rail, and in disengaging the spring from said device and withdrawing said device from the piano action.

1,477,611. LUBRICATING COMPOUND. MORRIS C. VAN GUNDY, Port Arthur, Tex., assignor to The Texas Company, New York, N. Y., a Corporation of Texas. Filed Dec. 11, 1920. Serial No. 430,040. 3 Claims. (Cl. 87—9.)

1. A lubricant comprising an alkali soap, a mineral oil, and lead soap which in quantity constitutes approximately 10% of the compound.

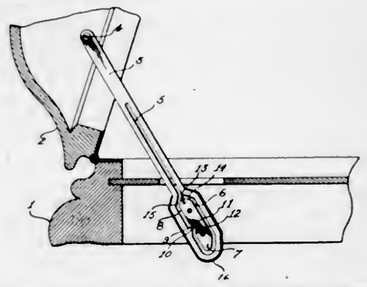
1,477,612. RAKE. PERCIVAL C. VEINOT, West Manchester, Mass. Filed Feb. 9, 1923. Serial No. 618,125. 2 Claims. (Cl. 55—10.)



1. In a rake, the combination of a metallic bar head formed of sheet material having its front and rear sides vertical and at the same level at the bottom, one taller than the other, and a slanting top side, the edges of the bottom being bent inwardly in the same plane to form bottom flanges having a longitudinal space between them,

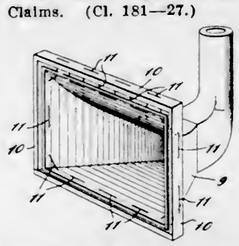
said head being closed at one end and open at the other, a series of blocks of the same shape as the interior of said head located therein, certain of said blocks being provided with teeth projecting therefrom through the space between said flanges, and a cap of the same general shape as the said head fitting over the open end thereof.

1,477,613. LID SUPPORT. DAVID M. WATSON, McKinley, Pa. Filed Jan. 25, 1923. Serial No. 614,733. 3 Claims. (Cl. 217—60.)



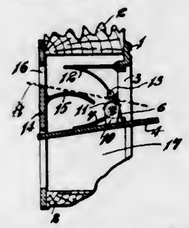
1. The combination with a cabinet or other object having a lid and a fixed pin, of a supporting arm pivoted to the lid and having a slot terminating in a continuous guideway having an offset in its lower run, the slot and guideway being adapted to slide on the pin, and a strip spring adapted to deflect the pin from the slot into the lower run of the guideway and permit it to pass from the upper run into the slot.

1,477,614. AMPLIFYING DEVICE. JACOB H. WEBER, New York, N. Y. Filed Sept. 9, 1920. Serial No. 409,136. 4 Claims. (Cl. 181—27.)



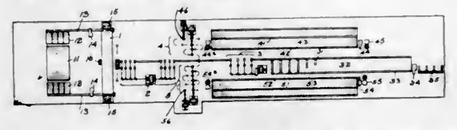
2. A sound amplifying device comprising a support, an amplifier horn, and musical instrument strings woven between the support and amplifier horn for supporting the latter from the supoprt and in spaced relation thereto.

1,477,615. LETTER CHUTE. WILLIAM F. WEMHOENER, St. Louis, Mo. Filed Jan. 18, 1923. Serial No. 613,430. 7 Claims. (Cl. 232—45.)



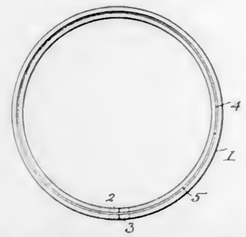
2. In a mail delivery device, a pivoted plate, a member having a cylindrical surface and rotatable by said plate, and a yielding element cooperating with said surface to grip mail matter between the member and element.

1,477,616. ROLLING MILL. FREDRIK WILLE, Warren, Ohio, assignor to The Trumbull Steel Company, Warren, Ohio, a Corporation of Ohio. Filed Feb. 28, 1922. Serial No. 539,832. 2 Claims. (Cl. 80—37.)



2. A rolling-mill assembly including a single roughing mill in operative combination with a plurality of finishing mills, one of said finishing mills being a looping mill, separate means for driving the rolls of the ultimate pass of the looping mill, means for conveying away the material from such ultimate pass of the looping mill, and means for conveying away the material from a pass of the looping mill anterior to the ultimate.

1,477,617. PISTON RING. EDWARD M. WILLIAMS, Elyria, Ohio. Filed Oct. 11, 1922. Serial No. 593,764. 2 Claims. (Cl. 74—109.)



1. A piston ring comprising a resilient expansible split ring having shouldered ends formed to provide interfitting projecting portions overlapping circumferentially, one edge of said ring having a circumferentially extending groove of substantially the depth of the projecting end portion on the grooved side of the ring and extending across the split, and an arcuate filler strip fitting in said groove and bridging the space between said projecting portion of the ring end through which the groove extends and the corresponding shoulder upon the other ring end.

1,477,618. WELDED JOINT. MINER P. WETMORE, Newark, N. J., assignor to Hygrade Engineering Co., Inc., a Corporation of New Jersey. Filed June 22, 1920. Serial No. 390,936. 1 Claim. (Cl. 176—38.)

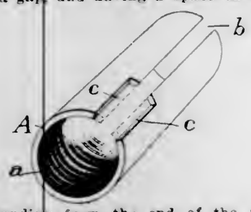


As an article of manufacture an electrical and mechanical connector comprising a section of wire over and onto which a section of tubing of somewhat larger diameter has been flattened, the meeting surfaces being welded together while the remaining portions of the wire and tube surfaces are left separate each from the other.

1,477,619. TUBULAR STEREOTYPE PRINTING PLATE. HENRY A. WISE WOOD, New York, N. Y., assignor to The Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Original application filed Mar. 11, 1915, Serial No. 13,733. Renewed May 16, 1919, Serial No. 297,565. Divided and this application filed Dec. 11, 1919. Serial No. 344,234. 5 Claims. (Cl. 29—21.)

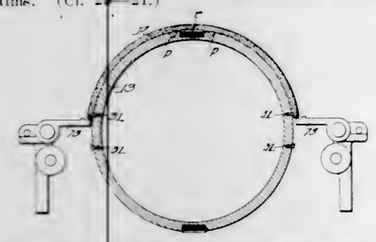
4. As an article of manufacture, a tubular stereotype printing plate having a helical rib on its inner surface, and provided with a slot extending longitudinally through

the plate and dividing said rib into a plurality of ribs each having a gap, and having a space on each side of



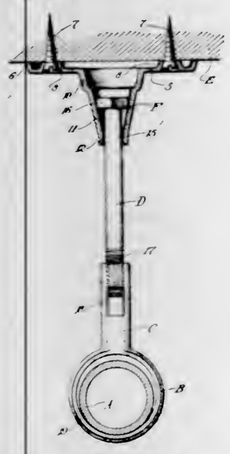
said gap extending from the end of the plate to the base of the tail thereof for the reception of a tail-cutting tool.

1,477,620. STEREOTYPE PRINTING PLATE. HENRY A. WISE WOOD, New York, N. Y., assignor to The Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Original application filed Oct. 17, 1912, Serial No. 726,239. Divided and this application filed Jan. 14, 1920. Serial No. 351,365. 7 Claims. (Cl. 29—21.)



1. As an article of manufacture, a curved stereotype printing plate having a rack cast along the surface thereof.

1,477,621. PIPE HANGER. LOTHAR R. ZIFFERER, Lancaster, Pa. Filed May 11, 1922. Serial No. 560,022. 1 Claim. (Cl. 248—31.)



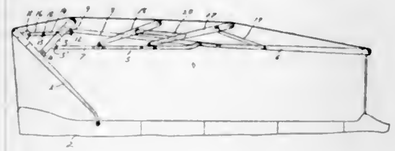
As a new article of manufacture, a bolt support having a base adapted for attachment to a fixed object, there being extended from the base a truncated tapering cone having its greatest diameter adjacent the base at which point the cone walls are circular in cross section, the cone walls elsewhere being configured to provide a polygon in cross section such as to engage nonrotatably with the bolt head, substantially as described.

1,477,622. WRIST PIN. WILLIAM AAB, New Ulm, Minn. Filed Mar. 27, 1922. Serial No. 547,014. 5 Claims. (Cl. 74—108.)



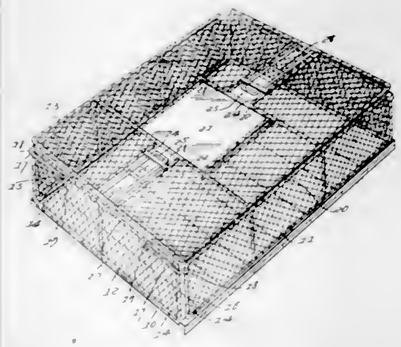
1. A hollow wrist pin for connecting rods having a concentric opening of uniform cross sectional area extending longitudinally therethrough, said pin being longitudinally split and having a tapered opening extending substantially centrally through the said split portion and an expanding key disposed in said tapered opening leaving the greater part of said first mentioned opening unobstructed.

1,477,623. VEHICLE TOP. MORTON S. BALDWIN, Detroit, Mich., assignor to Detroit Forging Company, Detroit, Mich., a Corporation of Michigan. Filed June 11, 1921. Serial No. 476,694. 2 Claims. (Cl. 296—116.)



1. In a folding top for vehicles, a main bow, a spacing member pivotally secured to said main bow, a bipartite outrigger bow pivoted to said spacing member, a link pivotally connected to the forward member of said outrigger bow, toggle links pivotally connected to said main bow, and a common pivot for said link and toggle links carried by said spacing member, said link having an elongated opening therein slidably engaged by said common pivot to provide a loose connection between the said link and said spacing member.

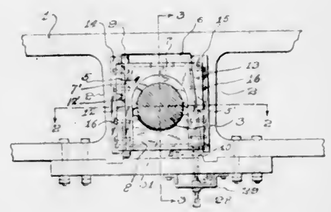
1,477,624. FOLDABLE CHICKEN CRATE OR COOP. OTIS M. BATES, Friendship, Tenn. Filed Mar. 11, 1922. Serial No. 542,979. 6 Claims. (Cl. 220—6.)



1. A coop or crate of the character described comprising a bottom, side and end walls hinged to the bottom for movement from a position against the bottom to a

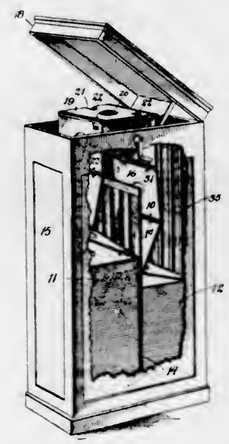
vertical position, a top, levers pivotally connected to the top and operatively engaging at their outer ends with a pair of said walls, latches on the top holding the levers in a horizontal plane and the walls with which the levers are connected in vertical planes, and means for locking the other two walls of the coop to the walls to which the levers are connected.

1,477,625. DRIVING-WHEEL BOX FOR LOCOMOTIVES AND THE LIKE. JOHN F. BYRNE, Lincoln, Nebr., assignor of one-third to George M. Byrne and one-third to Roscoe L. Smith, both of Lincoln, Nebr. Filed Mar. 28, 1923. Serial No. 628,171. 5 Claims. (Cl. 105—81.)



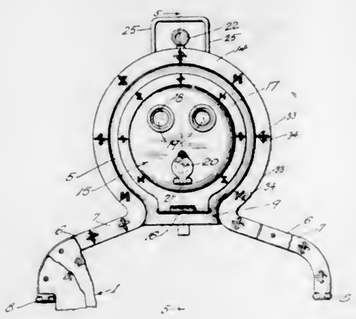
1. The combination with the frame of a locomotive or the like, of a driving-wheel box carried by said frame, flanges upon the inner side of the box, flanges upon the outer side of the box and removably secured thereto, and filler strips arranged intermediate the various flanges and the frame.

1,477,626. PHONOGRAPH-RECORD-FILING CABINET. CLARENCE NOEL CAHUSAC, Jersey City, N. J. Filed Nov. 16, 1921. Serial No. 515,505. 9 Claims. (Cl. 211—16.)



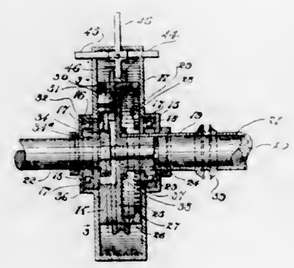
4. A phonograph record filing cabinet including a casing, a drum pivoted for rotation therein about a horizontal axis adjacent to the upper end of the casing with the upper side of the drum disposed above the upper edge of the casing wall, a cover for the top of said casing which when in closed position prevents rotation of the drum and a plurality of record carrying envelopes connected together in series and extending over said drum, each envelope having an opening in one edge thereof for the lateral removal of the record in the general direction of the axis of the drum.

1,477,627. LIFE-SAVING AND SPORTING DEVICE. OMER F. CAMPBELL, Fresno, Calif. Filed Sept. 3, 1920. Serial No. 407,933. 9 Claims. (Cl. 9—20.)



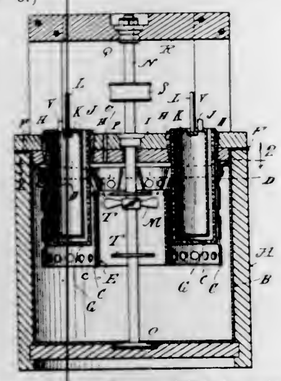
1. The combination with a buoyant suit, of a helmet comprising members hinged together to swing in a substantially vertical plane, and cam means for securing said members in contact.

1,477,628. TRANSMISSION. VAN ROY CARTER, Los Angeles, Calif. Filed Nov. 18, 1921. Serial No. 516,077. 5 Claims. (Cl. 74—57.)



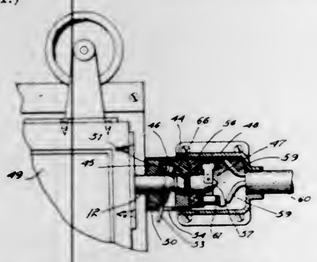
1. A transmission comprising driving and driven shafts, a housing adapted to contain a fluid, a casing rotatable within the housing, movable members operatively connecting said casing with the driven shaft, said members being movable in the casing to effect a circulation of the fluid in the housing through the casing, and a cut-off common to all of said members for controlling the circulation of fluid into and out of the casing whereby the rotational speed of the driven shaft is varied.

1,477,629. ELECTROLYTIC APPARATUS. RUSSELL K. CHRISMAN, Syracuse, N. Y., assignor to Semet-Solvay Company, Solvay, N. Y., a Corporation of New York. Filed May 18, 1921. Serial No. 470,707. 5 Claims. (Cl. 204—5.)



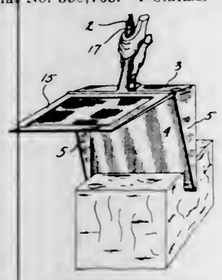
1. An electrolytic cell comprising a containing vessel and a plurality of cylindrical anode elements arranged around and tangent to a central open space within said vessel and having a common electrical connection.

1,477,630. ELEVATOR-DOOR LOCK. JOHN F. CLANCY, Chicago, Ill., assignor to Kaestner & Hecht Company, Chicago, Ill., a Corporation of Illinois. Filed June 22, 1922. Serial No. 570,219. 21 Claims. (Cl. 187—31.)



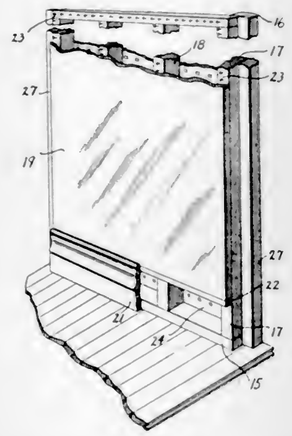
5. In an electric elevator, in combination, a hatchway, a door in said hatchway, a lock for said door and including a switch, and a plunger mounted to enter said lock and close said switch, said lock acting to retain said plunger in any one of a plurality of positions and said plunger serving to close said switch only when near its innermost position.

1,477,631. ELECTRICALLY-HEATED ICE CUTTER. JAMES DEENIHAN, Redondo Beach, Calif. Filed Nov. 3, 1922. Serial No. 598,765. 4 Claims. (Cl. 62—112.)



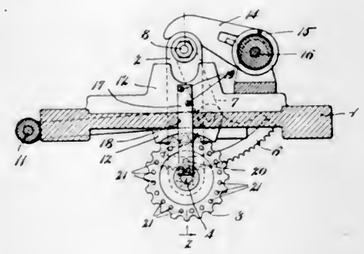
3. A combined ice cutter and pan having an entering edge provided with an enclosed electrical heating unit, a handle at one end of the pan, a cover hinged on the pan and provided with a handle part disposed contiguous to said handle, and a circuit closing switch in said handle.

1,477,632. WALL CONSTRUCTION. MARTIN J. DONER, Venice, Calif. Filed Aug. 25, 1922. Serial No. 584,271. 9 Claims. (Cl. 72—16.)



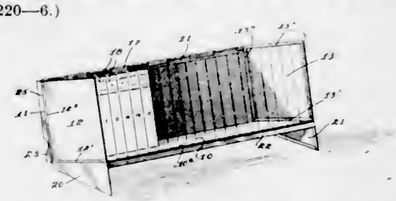
1. A building wall unit comprising a frame including spaced vertically disposed beams, slabs of plastic material arranged at opposite sides of the beams and spanning the same to provide chambers between the beams, and securing means driven into the beams and imbedded in said slabs for the purpose described.

1,477,633. MARKER FOR LEATHER GRADERS. LEANDER A. COGSWELL, Manchester, N. H., assignor to Lacene Manufacturing Company, Manchester, N. H., a Corporation of Maine. Filed Oct. 6, 1922. Serial No. 592,914. 1 Claim. (Cl. 101—18.)



In a machine of the kind described, in combination with the cross head of the frame, a slide mounted for vertical reciprocation on the cross head, a rotary stamp journaled on said slide below the cross head, a series of shoulders arranged in a circle on one side of the rotary stamp, a member rigidly fixed to the cross head and extending downward beside the stamp and close to said shoulders, and a projection on said fixed member extending toward the side of the stamp and inside the circle of shoulders when the stamp is in elevated position and adapted to engage a pair of the shoulders and lock the stamp when the stamp is in depressed position.

1,477,634. COMBINED SHIPPING CASE AND DISPLAY RACK. MARTHA H. CONNOR, Baltimore, Md., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md., a Corporation of New Jersey. Filed June 30, 1922. Serial No. 572,006. 12 Claims. (Cl. 220—6.)

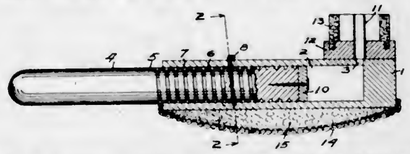


1. A combined shipping case and display rack, comprising a container having the rear wall thereof attached along one edge to the bottom wall thereof for movement about said edge to a position underlying the said bottom wall, and having a lid or cover attached along one edge for movement about the said rear wall to a position overlying the front wall of the container, whereby upon movement of the lid and rear walls to said positions a compartment open at two adjacent sides may be provided to effect a display rack.

1,477,635. PROCESS OF FORMING COMPOSITE LUBRICANTS. DEMPSEY KEMP DODGE, Houston, Tex. Filed July 11, 1922. Serial No. 574,292. 3 Claims. (Cl. 87—9.)

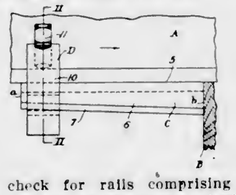
3. The process of obtaining a composite lubricant comprising distilling off from castor oil the acids and aldehydes to about 6.5% of the mass, blowing the residue with air until a point of rapid increase of gumminess is reached and mixing the resulting product with lighter mineral oil lubricants in the manner set forth.

1,477,636. FOUNTAIN SHOE-BLACKING BRUSH. CORNELIUS J. DUSSEAU, Toledo, Ohio. Filed June 5, 1922. Serial No. 565,912. 1 Claim. (Cl. 15—137.)



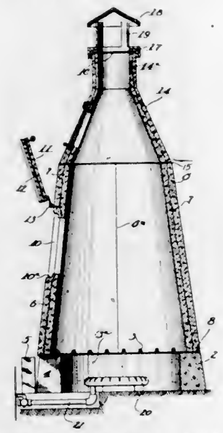
In a fountain brush, a brush body having a chamber for receiving the material to be applied with the brush, a handle member having a spiral groove and located in the chamber, a removable staple extending into the brush body and into the chamber and fitting the groove whereby the handle member may be moved longitudinally into position and secured by the staple entering the spiral groove to produce longitudinal movements upon rotative movements of the spiral member.

1,477,637. CREEP CHECK FOR RAILS. KARL F. ELERS, Oakmont, Pa. Filed July 24, 1922. Serial No. 576,963. 10 Claims. (Cl. 238—324.)



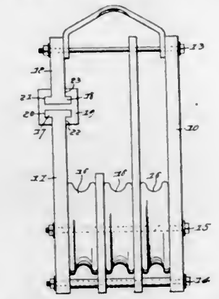
3. A creep check for rails comprising an inverted trough shaped wedge plate, the trough of which is deeper at one end than at the other, and a clamp having an arm extending inside the trough and another arm adapted to extend over a rail flange.

1,477,638. INCINERATOR. JOSEPH FEIGENBAUM, Los Angeles, Calif., assignor to Safety Concrete Incinerator Co., Inc., Los Angeles, Calif., a Corporation of California. Filed May 31, 1923. Serial No. 642,703. 7 Claims. (Cl. 126—224.)



1. An incinerator including a frusto-conoidal shell formed of segments of monolithic form and having longitudinal, abutting edges, one of the sections being provided with a charging aperture in its side, a monolithic dome at the top of the shell, the dome being provided with an aperture having a movable closure, spark arresting means at the top of the dome, and a hood arranged above the spark arrester.

1,477,639. TACKLE BLOCK. LLOYD EARL FISHBACK, El Dorado, Ark. Filed Feb. 13, 1923. Serial No. 618,854. 1 Claim. (Cl. 254—193.)

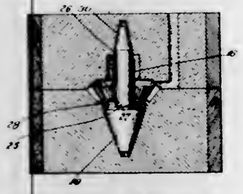


In a block, a solid cheek and a sectional cheek, flanges on the adjacent edges of the sections of the cheek, a coupling having channels therein for the reception of the flanges and having slots forming clearances for the said sections, means for connecting the cheeks together, and sheaves rotatably mounted between the cheeks.

1,477,640. MEANS FOR MAKING MACHINE ELEMENTS. ALVA J. FISHER, Evanston, Ill., assignor to Hurley Machine Company, Chicago, Ill., a Corporation of Illinois. Original application filed Oct. 18, 1918, Serial No. 258,718. Divided and this application filed Feb. 16, 1920. Serial No. 358,952. 5 Claims. (Cl. 22—167.)

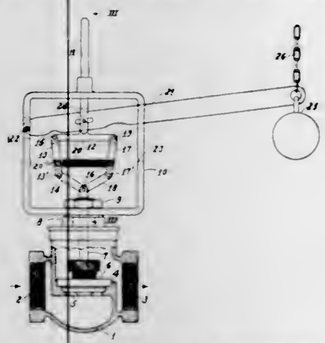
1. Apparatus for casting machine elements having shaft-fitting apertures, comprising a pattern-member shaped to define peripheral portions of a suitable mold-

cavity and guide-surfaces extraneous to said portions at both ends thereof; a metal core-piece affording end guide-portions congruent with the guide surface portions of the pattern member and having an intervening stem



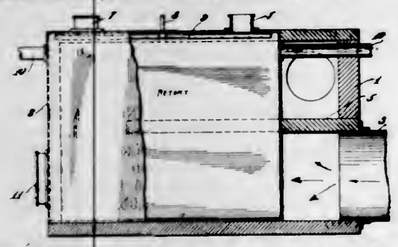
smaller than and forming a shoulder with one of said guide portions of said core-piece; and a sleeve adapted to interfit with said stem and be positioned by said enlargement of the core-piece and axially removable over the other end of the core-piece without injury to the stem.

1,477,641. SNAP-ACTING GAS-CONTROL VALVE. ALBERT W. FRANCIS, Latrobe, Pa., assignor to Charles Howard Hook, Pittsburgh, Pa. Filed Dec. 5, 1921. Serial No. 519,915. 7 Claims. (Cl. 137—139.)



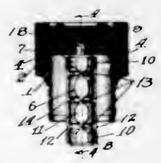
1. A valve comprising a casing provided with a passage therethrough, a valve head adapted to close said passage, a stem attached to the head and projecting through the casing, a cross head held against lateral movement and guided for travel in the direction of the axis of said stem, a pair of toggles each of which has one end pivoted to the cross head and its opposite end pivoted to the valve stem, means for urging the corresponding arms of the toggles towards each other, and means for moving the said cross head.

1,477,642. DISTILLING MATERIALS IN CONTACT WITH POROUS SUBSTANCES. BENJAMIN GALLSWORTHY, Tampico, Mexico, assignor to The Texas Company, a Corporation of Texas. Filed Nov. 7, 1919. Serial No. 336,425. 4 Claims. (Cl. 196—25.)



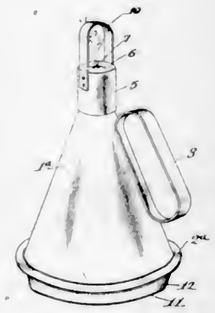
1. The method of treating emulsified oils which comprises spraying the water-impregnated oil over heated lignite and allowing said oil to percolate through the lignite maintained at a temperature sufficient to distill off the moisture.

1,477,643. FUSE PLUG. JOHN B. GLOWACKI, Chicago, Ill. Filed July 21, 1919. Serial No. 312,341. 5 Claims. (Cl. 200—128.)



1. A fuse comprising a cylinder having metallic end portions and an intermediate portion of insulating material and split metallic rings for detachably securing a strip of fusible material along one side of the cylinder with its ends in contact with the metallic end portions, said cylinder being provided with a longitudinal ridge adapted to prevent displacement of the split metallic rings.

1,477,644. WATER KETTLE. JOHN HAKET, Los Angeles, Calif. Filed Apr. 23, 1923. Serial No. 633,959. 2 Claims. (Cl. 116—70.)

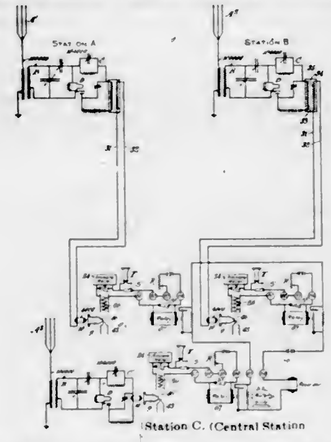


2. In a whistling attachment adapted to be used upon kettles, a removable top provided with a plurality of corresponding apertures, one of said apertures being formed in said removable top, and another of said apertures being formed in an inserted plate substantially parallel therewith, and means for supporting said top in place of a kettle cover.

1,477,645. SIGNAL-RECEIVING SYSTEM AND METHOD. RAY EDWIN HALL, Chicago, Ill., assignor to Hall Research Corporation, a Corporation of Delaware. Filed Aug. 13, 1919. Serial No. 317,119. 11 Claims. (Cl. 250—8.)

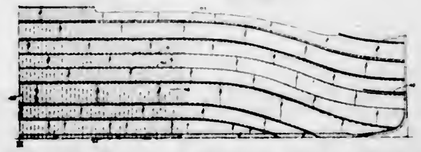
1. The method of obviating effects of electrical disturbances when signalling by electro-magnetic waves, which method consists in employing a plurality of receiving systems for the electro-magnetic waves, said systems having their wave-intercepting elements in operative relation to the same signal sending apparatus but in differing receiving relations wth respect to electrical disturbances of different origin; and then selectively and successively, from instant to instant, utilizing the signal

impulses of that one of the receiving systems which is then least disturbed, to determine the production of a



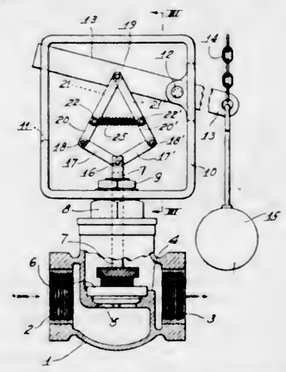
complete signal indication or record comprising the least erroneous portions of all of the signal impulses received in all of the systems during a given time.

1,477,646. SHIP. MYRON F. HILL, New York, N. Y. Filed Mar. 27, 1919. Serial No. 285,506. Renewed May 9, 1923. 9 Claims. (Cl. 114—79.)



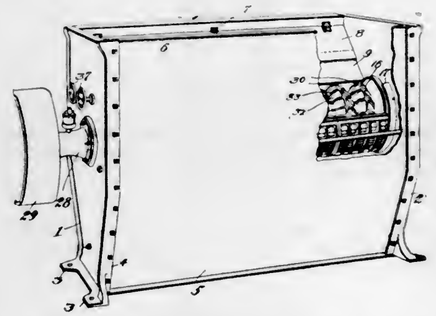
1. In a ship, horizontally disposed strakes of plates, each composed of separately formed integral units each having its greatest dimension lying lengthwise of the hull, and including a plurality of stiffeners, such as frames or floors, disposed across the said greatest dimension.

1,477,647. SNAP-ACTING GAS-CONTROL VALVE. CHARLES HOWARD HOOK, Pittsburgh, Pa. Filed Apr. 30, 1923. Serial No. 635,481. 7 Claims. (Cl. 137—139.)



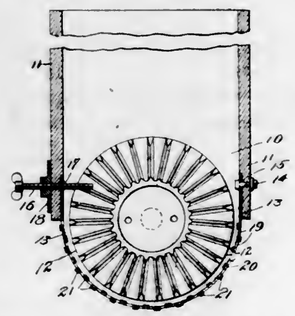
1. A valve comprising a casing provided with a passage therethrough, a valve head adapted to close said passage, a stem fixedly attached to the head and projecting outwardly through the casing to the exterior thereof, a frame fixed to the casing, a movable actuating member mounted on the frame, a pair of toggles having their opposite extremities pivoted to said stem and actuating member respectively, and means for constantly urging said toggles towards each other.

1,477,648. PEANUT-SHELLING MACHINE. JOHN THOMAS HUSTON, Columbus, Ga. Filed May 16, 1919. Serial No. 297,608. 32 Claims. (Cl. 130—30.)



1. As an article of manufacture, a concave grate section for peanut shellers formed by an integral casting having spaced longitudinal members arranged at their upper surface to form a concave and having their body portions shaped and disposed to have the draft relative to a common plane to permit it to strip from the mold, the wearing surface of said members being formed with integral abrasive projections.

1,477,649. HAND PEANUT SHELLER. JOHN THOMAS HUSTON, Columbus, Ga. Filed May 16, 1919. Serial No. 297,609. 9 Claims. (Cl. 130—30.)

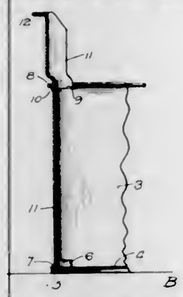


1. A peanut shelling machine including a concave having a foraminous peripheral wall, a rotor in the concave having a circumferential groove defining a deep annular grinding space which is unrestricted throughout its length, and ribs in the groove to hold and carry with it as it rotates an annular whirl of nuts, the rotor and concave being spaced to prevent any positive crushing action between them on the shells, and adjustable means for varying the feed of material to said arcuate space.

1,477,650. CAKE PAN. ARTHUR KATZINGER, Chicago, Ill., assignor to Edward Katzinger Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 4, 1922. Serial No. 599,005. 10 Claims. (Cl. 53—6.)

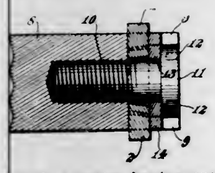
1. A cake pan comprising a bottom, an upright wall extending upwardly from the bottom and having a nar-

low opening therein extending downwardly to the level of the top surface of said bottom, and a plate slidable



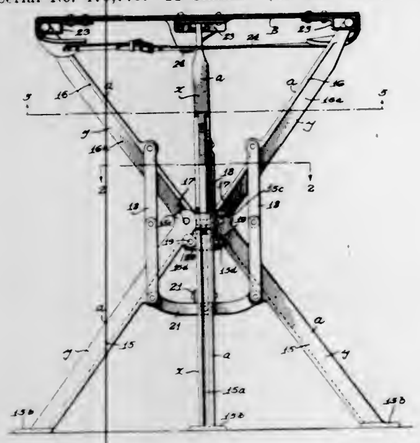
vertically over said said opening, said bottom having a retainer for the lower edge of said plate disposed below the top surface of said bottom.

1,477,651. BORING TOOL. CHRISTIAN C. KOELN, St. Louis, Mo. Filed Jan. 17, 1921. Serial No. 437,814. 22 Claims. (Cl. 77—58.)



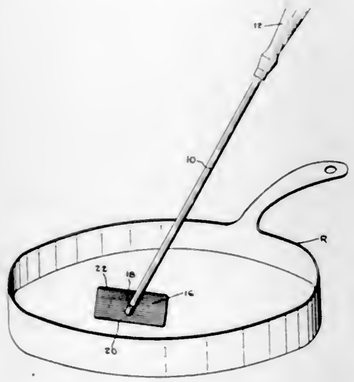
1. In a boring tool, a cutter having cutting edges and a recessed malleable body joining said edges radially therewithin and providing a firm backing therefor, said body being formed and adapted for tensional extension in order to effect and maintain an inherent set expansion of said edges.

1,477,652. FOLDING STOOL OR CHAIR. CHARLES J. KOENIG, New Baltimore, Mich. Filed May 19, 1921. Serial No. 470,779. 11 Claims. (Cl. 155—136.)



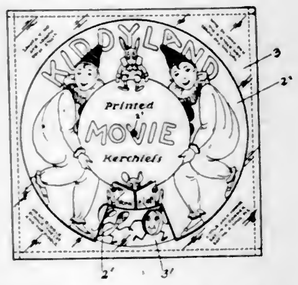
1. In folding stools or chairs, wherein the seat and seat support are in the form of independent units adapted combinedly to produce the service condition of the stool or chair and are separable to permit folding, a seat support unit including a plurality of sectional leg formations the sections of each formation being pivotally connected adjacent an end of one of the sections, and an element hingedly connected to the several formations, the hinge connections of the several formations and the element being spaced from the pivot connections of the sections of a formation and located relative to such pivot points as to place the hinge connection below the pivot connection when the support is in service position to cause the pivot points of opposite formations to tend to approach each other to set up a bracing relation between the formations to maintain the support in such service condition.

1,477,653. CULINARY STIRRING DEVICE. CECELIA DE LA BARRE, Minneapolis, Minn. Filed Jan. 8, 1923. Serial No. 611,372. 1 Claim. (Cl. 259—144.)



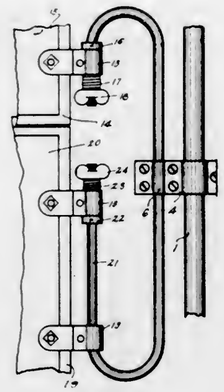
A culinary stirring device comprising a handle member having a longitudinal slot in one end thereof, and a rectangular stirring member of sheet material having rounded corners and pivotally attached for free swinging movement in said slot so as to be capable of complete rotation therein, the length of said stirring member being considerably greater than the width thereof.

1,477,654. MOVIE KERCHIEF. THOMAS B. LAMB, New York, N. Y. Filed Sept. 23, 1922. Serial No. 590,108. 2 Claims. (Cl. 46—37.)



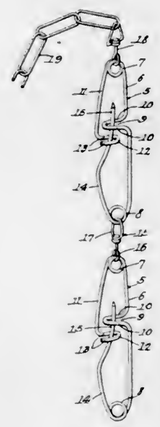
1. A container for handkerchiefs having a circular design composed of a series of pictures thereon, the cover portion of said container having an apertured circular portion depicted thereon, said depicted apertured circular portion corresponding to the circular design on the handkerchiefs in such a manner that when the said aperture is made and a handkerchief is arranged coaxial with the disk and rotated relatively thereto, successive pictures of the series on the handkerchief will be exposed through the aperture in the disk.

1,477,655. CONVERTIBLE WIND AND GLARE SHIELD. SAMUEL W. MCCULLOUGH, Birmingham, Ala. Filed Oct. 9, 1922. Serial No. 593,437. 4 Claims. (Cl. 296—84.)



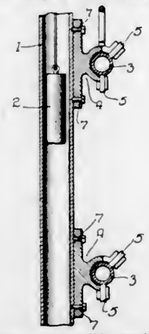
1. A wind guard attachment comprising upper and lower sections, the upper section having translucent glare resisting material mounted therein, and means to mount said sections to permit the upper section to be moved into the line of vision of the driver.

1,477,656. FISH-STRINGING LINE. JAMES ALTON MAY, Nashville, N. C. Filed Jan. 13, 1923. Serial No. 612,530. 3 Claims. (Cl. 224—7.)



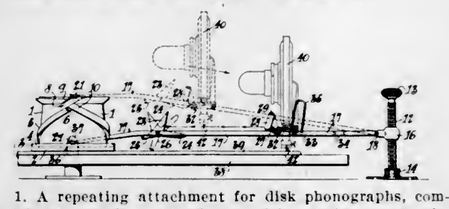
1. A line for stringing fish or the like, comprising a plurality of hooking elements having swiveled connection with each other, each hooking element embodying a back having a transverse keeper opening rearwardly, an arm carried by one end of the back and provided with a transverse keeper opening forwardly in an opposite direction to the first named keeper, and a prong carried by the opposite end of the back and adapted for insertion within the oppositely facing keepers.

1,477,657. METHOD OF MOUNTING BRACKETS AND THE LIKE ON TUBES. WILLIAM MEYER, Chicago, Ill. Original application filed Apr. 12, 1918, Serial No. 228,104. Divided and this application filed Mar. 7, 1921. Serial No. 450,469. 2 Claims. (Cl. 113—112.)



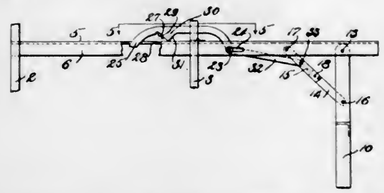
1. In combination, a metallic wall having a centering recess formed therein, a stud centered in said recess, a welding fillet joining said wall with said stud, a member engaging over said stud, said member being relieved on its reverse side to accommodate said welding fillet.

1,477,658. REPEATING ATTACHMENT. HARRY LAWRENCE MILLER, Allentown, Pa. Filed Nov. 17, 1922. Serial No. 601,609. 8 Claims. (Cl. 274—15.)



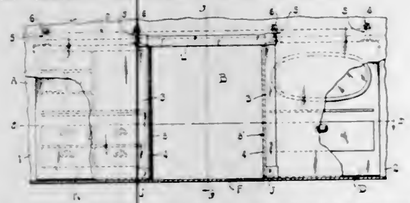
1. A repeating attachment for disk phonographs, comprising a cam element having provisions to be set over the turn table spindle and turn with the same, a standard, an intermediate arm mounted on the standard and having a finger engaging said cam element, a trip on said arm, and means on the phonograph sound box to slidably engage said arm and adapted to engage said trip to set it into and out of contact with the record disk, said cam element having a circular bottom groove, and an ascending and a descending cam.

1,477,659. FOLDING BED. HENRY MINTZ, Roxbury, Mass., assignor to New England Bedding Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 23, 1922. Serial No. 590,036. 13 Claims. (Cl. 5—38.)



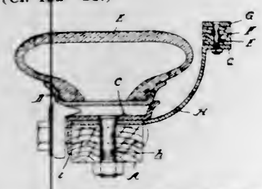
1. A device of the character described comprising a bottom frame and a back-rest frame hinged thereto, a latch pivotally secured to one of said frames and having a body portion provided with a securing notch and with a rigid fulcrum projection immediately adjacent said notch, and means for rocking the latch on the fulcrum projection to control the engagement of the notch with an element of the other of said frames.

1,477,660. DISAPPEARING FURNITURE. HARRY L. MONROE, St. Louis, Mo. Filed Sept. 22, 1922. Serial No. 589,795. 14 Claims. (Cl. 20—1.11.)



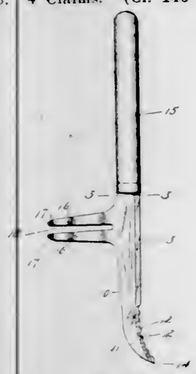
1. The combination of a wall provided with a transverse opening forming a passageway through the wall, said wall comprising wall members separated from each other to form a storage compartment at one side of said passageway, and an article of furniture movable from said storage compartment to said passageway.

1,477,661. AUXILIARY TREAD FOR PNEUMATIC-TIRED VEHICLE WHEELS. RANSOM E. OLDS, Lansing, Mich. Filed May 17, 1919. Serial No. 297,788. 1 Claim. (Cl. 152—23.)



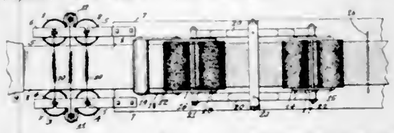
The combination with a vehicle wheel having a felly and a surrounding felly band and adapted to carry a pneumatic tire, of an auxiliary tread member having its outer periphery of greater diameter than the wheel and of less diameter than the pneumatic tire thereon, a support for said auxiliary tread member having a portion between said felly band and felly, and means passing through said felly band, portion of the auxiliary tread member support between said felly band and felly, and felly for securing said auxiliary tread member in place relative to the wheel.

1,477,662. FRUIT TOOL. WILLIAM S. PERRY, New Haven, Conn., assignor to The Wopeco Machine Company, New Haven, Conn., a Corporation of Connecticut. Filed June 13, 1922. Serial No. 568,062. Renewed July 26, 1923. 4 Claims. (Cl. 146—3.)



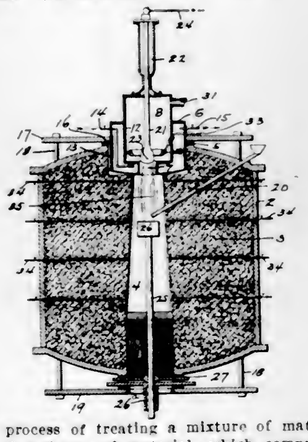
1. A fruit tool for coring, slicing and seeding fruit having a sharpened blade curved and pointed at one end with teeth upon the inner edge of the curved portion.

1,477,663. PROCESS FOR SURFACING CLAY PRODUCTS. EMMETT V. POSTON, Springfield, Ill., assignor to Poston Brick Company, Springfield, Ill., a Corporation of Illinois. Filed May 28, 1921. Serial No. 473,481. 2 Claims. (Cl. 25—20.)



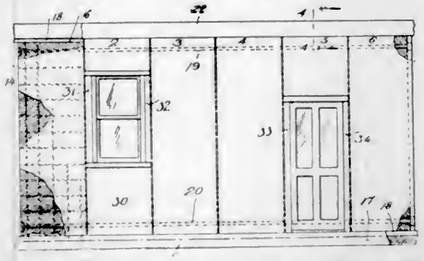
1. A process of surfacing plastic substances consisting in passing the plastic bar between a series of pressure rolls having granular surfaces of varied degree of coarseness, and subsequently severing the substance into building elements.

1,477,664. PROCESS OF AND APPARATUS FOR TREATING MATERIALS. HARRY D. RANKIN, Coronado, Calif. Filed Oct. 21, 1920. Serial No. 418,476. 25 Claims. (Cl. 204—31.)



1. The process of treating a mixture of materials to produce other forms of material, which comprises subjecting the mixture under pressure greater than atmospheric pressure to the action of an electric arc flame whereby gaseous matter is produced, and immediately and abruptly cooling the gaseous matter out of contact with the arc by concurrently subjecting it to two or more cooling methods.

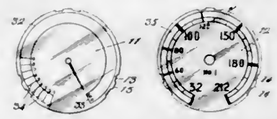
1,477,665. CONCRETE BUILDING. WALLACE C. RICHMAN, East Cleveland, Ohio. Filed June 16, 1920. Serial No. 389,357. 1 Claim. (Cl. 72—16.)



In a concrete building structure, a wall formed of separate concrete boards, said boards being formed side by side and provided with grooved top and bottom edges and smooth side edges and having bolt cores near the top and bottom edges thereof, a base and a top seated

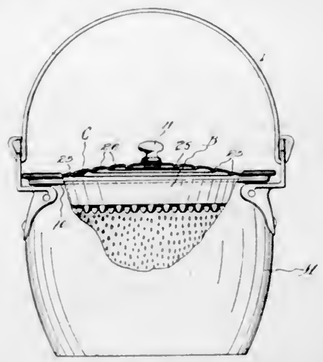
in the bottom and top edges, a plastic material interposed between the side edges of adjacent boards, and bolts passing through the cores of all of the boards for uniting the same into a unitary structure.

1,477,666. CALIBRATION OF INSTRUMENTS. HERMAN SCHLAICH, New York, N. Y. Filed Dec. 24, 1920. Serial No. 432,978. 5 Claims. (Cl. 73—52.)



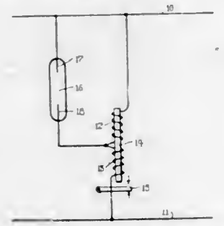
1. In an instrument construction, the combination of indicating means, means provided with a calibration scale having a mark corresponding with a certain high temperature and a plurality of marks corresponding with a certain low temperature, and a plurality of scale bearing members any one of which is adapted to be operatively associated with said indicating means, the scales on said members differing in length from one another, the length of each scale corresponding to the length on the calibration scale between one of the plurality of marks corresponding to a certain low temperature and the mark corresponding to a certain high temperature, each of said marks corresponding to a certain low temperature and the corresponding scale-bearing member being similarly designated.

1,477,667. COOKING UTENSIL. GEORGE SCHLUESSELBURG, Chicago, Ill., assignor to Anna Meyer, trustee, Chicago, Ill. Filed May 26, 1922. Serial No. 563,804. 3 Claims. (Cl. 53—1.)



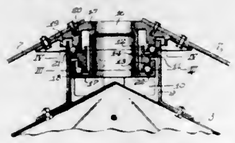
1. In a cooking utensil, the combination of a vessel formed interiorly with an annular shoulder in its upper region, a tray having an outwardly extending flange adapted to rest on the shoulder whereby it is supported in an elevated position within the vessel, a cover arranged over the tray in spaced relation and providing a closure for the vessel wherein upper and lower zones are defined by the tray, the tray bottom being formed with a plurality of downwardly depending nipples in closely spaced relation leaving between them a plane surface of relatively small area and the walls of each nipple being tapered toward its smaller end through which is formed a constricted opening surrounded by a fine circular edge, the openings through the several nipples being adapted for sealing by condensate dropping either therethrough from the upper zone or by condensate collecting upon the exterior of the nipples within the lower zone, substantially as described.

1,477,668. AMPLIFIER FOR ELECTROMAGNETS. FRITZ SCHRÖTER, Berlin, Germany. Filed Mar. 16, 1921, Serial No. 452,823. Renewed May 4, 1923. 9 Claims. (Cl. 175—335.)



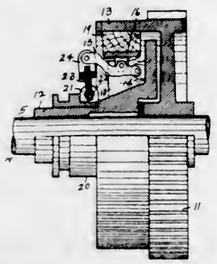
1. In apparatus of the class described, in combination, an electric circuit subjected to variations in potential, a pair of differential windings connected in series across the said circuit, and means connected in parallel with one of said windings for maintaining constant voltage across the terminals of said winding.

1,477,669. ROTARY VENTILATOR. LORD B. SHARPNACK, Detroit, Mich. Filed Jan. 21, 1922. Serial No. 530,750. 6 Claims. (Cl. 64—49.)



1. In a rotary ventilator, a stationary art, a rotary part, means for mounting the rotary part relative to the stationary part, said means comprising anti-frictional bearings constructively arranged above said stationary part and about the axis of said rotary part adapted to support and prevent vertical and lateral displacement of said rotary part relative to said stationary part, said bearings including three annular race members, two of which extend into the other.

1,477,670. CLUTCH FOR PIPE-LAYING MACHINES. GEORGE B. SMITH and ROY W. SANDERS, Houston, Tex. Filed Oct. 29, 1921. Serial No. 511,458. 1 Claim. (Cl. 192—76.)



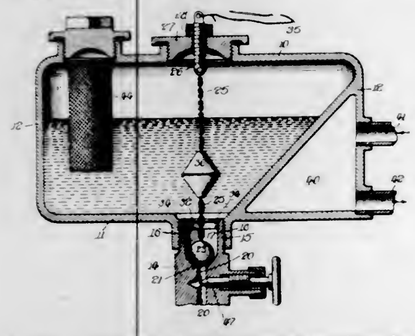
A clutch including a driven member loosely mounted on a driving shaft, a driving member fixed on said shaft, an annular hood formed integrally with the driven member, an annular flange carried by the driving member within said hood, a plurality of levers pivoted to said flange, yokes pivoted to the respective levers, guide rods carried by the respective ends of said yokes, bearings formed integrally with the driving member, in which said respective rods work, friction blocks secured to the respective yokes, the outer sides of said friction blocks being convex to conform to the contour of the said annular hood, with which they are adapted to frictionally

engage, a sleeve slidably mounted on the driving member, spaced bearings carried by said sleeve, shafts rotatable in said spaced bearings, outwardly threaded rods threaded through said respective shafts between the said bearings, brackets pivotally connected to the outer ends of the respective levers through which said outwardly threaded rods are threaded and means for actuating said sleeve whereby said friction blocks may be manipulated into engagement with and released from said hood.

1,477,671. ARTIFICIAL FUEL AND PROCESS FOR MAKING THE SAME. CHARLES F. STAUDENMAYER, Baltimore, Md. Filed July 7, 1922. Serial No. 573,480. 3 Claims. (Cl. 44—24.)

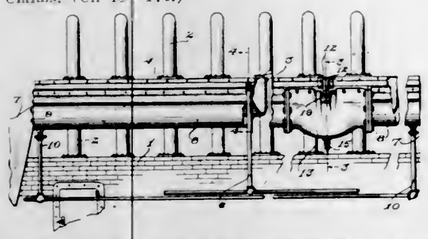
1. An artificial fuel briquette comprising dry ground coal cinders, dry saw-dust and tar oil.

1,477,672. LUBRICATOR CUP. OTTO STEGMANN, Will County, Ill. Filed Mar. 27, 1922. Serial No. 547,255. 10 Claims. (Cl. 184—69.)



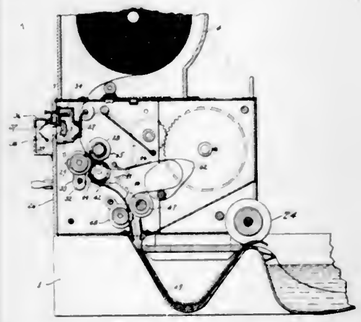
1. The combination of walls forming an oilcup having an upwardly-directed discharge opening normally below the surface of the oil within the cup, said discharge opening being surrounded by walls forming a valve seat, a valve member adapted to rest upon said seat for closing the discharge opening, a non-resilient freely-flexible and freely-swinging element suspended from a relatively fixed part of the device above said valve member and connected at its lower end to said valve member, the length of said flexible member being such that when the device as a whole is quiescent said valve member closes the discharge opening and when the device as a whole is vibrated or moved laterally said flexible member assumes a bowed position shortening the distance between its point of suspension and its point of connection to said valve member, thereby lifting said valve member away from said discharge opening.

1,477,673. COLLECTING MAIN FOR COKE OVENS. LARKIN SUBER and ELBERT MERCER, East Youngstown, Ohio. Filed June 21, 1922. Serial No. 569,967. 2 Claims. (Cl. 48—171.)



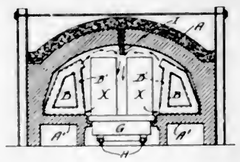
1. The combination with the collecting main of a coke oven plant, of a shallow heating jacket secured to the main and extending under and close to the bottom thereof from end to end of the same, and a dished joint member removably fitted in the jacket and secured to the main under a joint thereof.

1,477,674. CAMERA. AUGUSTUS TROWBRIDGE and WILLIAM C. DURYEA, Princeton, N. J. Original application filed Oct. 5, 1920, Serial No. 414,742. Divided and this application filed Jan. 30, 1922. Serial No. 532,591. 20 Claims. (Cl. 95—12.)



1. A camera comprising a light proof container provided with a light admitting aperture, a film carrying magazine associated with said container, a tank also associated with said container and being provided with a plurality of receptacles for chemicals for developing the film, a moving means mounted in said container and arranged to grasp the film to draw it from said magazine and to move it in front of said light admitting aperture, and a second moving means capable of being adjusted to any of several speeds for moving said film from said container to said tank.

1,477,675. CONTINUOUS TUNNEL KILN. LAURENCE ARTHUR VINCENT, Pleasantville, Pa., assignor to American Dressler Tunnel Kilns, Inc., Cleveland, Ohio, a Corporation of New York. Filed Feb. 20, 1922. Serial No. 537,707. 3 Claims. (Cl. 25—142.)

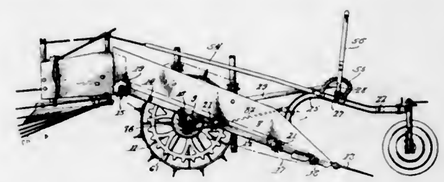


1. In a continuous tunnel kiln comprising an elongated kiln chamber with a goods pathway therethrough and combustion chambers extending longitudinally of the kiln chamber at opposite sides of the goods pathway in the high temperature zone of the kiln chamber, whereby the goods are largely heated by a convection current circulation of the kiln atmosphere upwardly past the combustion chambers and downward in the central portion of the goods pathway, the improvement which consists in a longitudinally extending baffle in the kiln chamber above the goods pathway.

1,477,676. POTATO DIGGER. LEWIS E. WATERMAN, Rockford, Ill., assignor to Emerson-Brantingham Company, Rockford, Ill., a Corporation of Illinois. Filed June 9, 1919. Serial No. 302,660. 4 Claims. (Cl. 55—51.)

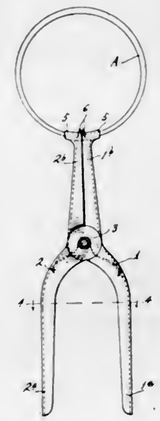
1. In an implement of the character described, the combination of an axle, a pair of driving wheels supporting the axle, a frame supported on the axle and adapted to be

tilted thereon, a transverse driven shaft journaled on the frame, a drive member for each drive wheel concentric with and loose on the axle, a direct driving connection between each drive member and the adjacent end of the



driven shaft, a clutch concentric with and operable between each drive member and the adjacent drive wheel for connecting and disconnecting said drive member and wheel, and means for automatically operating the clutches by tilting the frame.

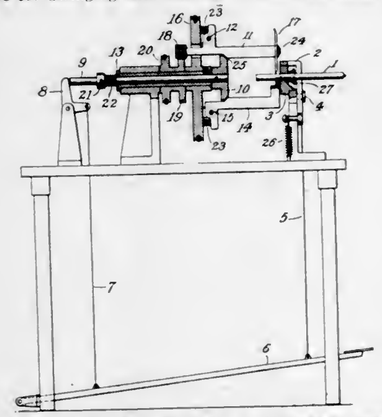
1,477,677. PISTON-RING TOOL. EMIL F. WESTMAN, Tonka Bay, Minn. Filed Feb. 25, 1922. Serial No. 539,195. 3 Claims. (Cl. 29—86.4.)



1. A piston ring tool having in combination arcuate channel-shaped means adapted to fit over one end portion of the ring and having a portion extending across one end of said channel and projecting beyond the sides thereof to contact one end of the ring, arcuate channel-shaped means fitting over the other end portion of the ring and having a portion extending across one end of the channel and projecting beyond the side thereof to contact the other end of the ring, means for separating said means to expand the ring, and means normally holding said means in close proximity.

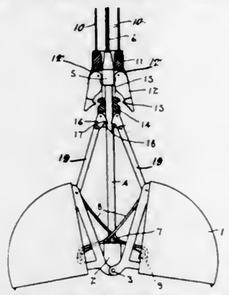
1,477,678. MACHINE FOR STRIPPING INSULATION FROM ELECTRIC WIRES. MINER P. WETMORE, Newark, N. J. Filed Feb. 7, 1921. Serial No. 442,901. 5 Claims. (Cl. 164—60.)

1. The combination, with means adapted for loosely holding and guiding the end of an insulated wire, but permitting motion of said wire along the line of its axis, of a revoluble frame journalled so that its axis of revolution will be in line with the axis of the wire so held, a rotary disc knife-edged cutter having a yielding journal bearing on said frame in a position such that the edge of the cutter may bear on the surface of the wire so held, means for swinging said bearing so that the cutter may



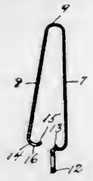
approach or recede from the wire, and means for rotating both said frame and said cutter about their respective axes.

1,477,679. DREDGING BUCKET. EDWARD WOOLLEY, Toronto, Ontario, Canada. Filed Aug. 18, 1921. Serial No. 493,466. 5 Claims. (Cl. 37—184.)



1. In a dredging bucket, the combination with the hoisting cable, of a pair of pivotal jaws, a bail connecting said jaws, a central member secured to said bail and operatively connected with the hoisting cable, a member slidable on said central member and operatively connected with the bucket jaws, means suspended independent of the hoisting cable adapted to engage and hold said slidable member while the cable is lowered to open the bucket, and means carried by said slidable member for holding the bucket jaws open.

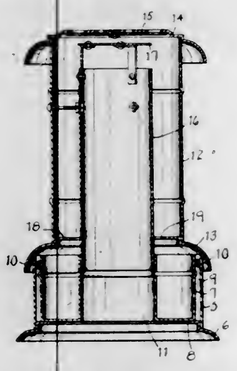
1,477,680. BELT CLASP. BENJAMIN ZETLIN, Providence, R. I., assignor to A & Z Chain Company, Providence, R. I., a Corporation of Rhode Island. Filed June 18, 1923. Serial No. 645,985. 1 Claim. (Cl. 24—3.)



A belt clasp comprising legs united by a terminal bend, a horizontal shoulder on one leg, a depending ring on the shoulder, a vertical projection on the shoulder, and a

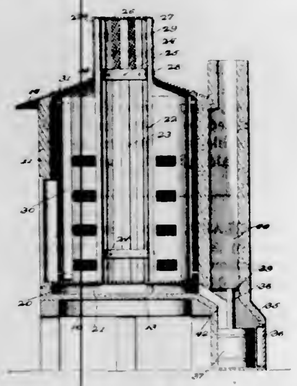
yielding lip on the other leg provided with an upturned terminal portion adapted to ride upon the projection, said lip being also provided with a cavity adapted to receive the projection.

1,477,681. HEATING STOVE AND RADIATOR THEREFOR. ARTHUR L. ZWISLER, Kalamazoo, Mich. Filed May 14, 1923. Serial No. 638,849. 9 Claims. (Cl. 126—96.)



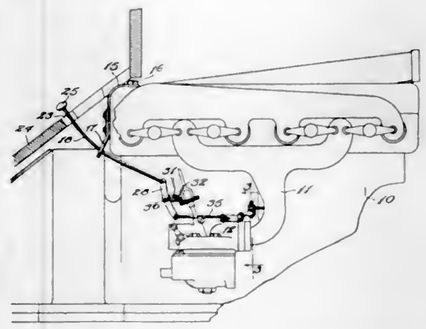
4. In a heating stove, the combination with a burner, of a radiator comprising a base member, an annular water reservoir disposed within said base member providing a central passage, said base member having discharge openings at its upper end, a casing mounted on said base member to close the top thereof, and a flue disposed centrally within said casing and adapted to coact with said passage in said base member when the casing is in position, whereby the heated air and products of combustion pass upwardly through the central flue and downwardly at the outside thereof to be discharged through said discharge openings in said base member.

1,477,682. CONVERTIBLE DRYING KILN AND CRIB. GEORGE W. ATHERTON, Livermore, Ky. Filed July 29, 1921. Serial No. 488,399. 2 Claims. (Cl. 98—26.)



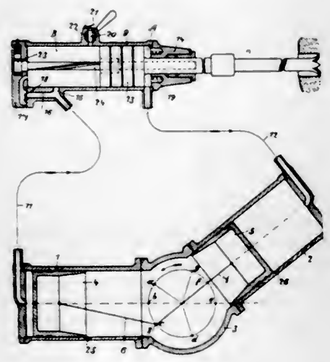
1. In an apparatus of the character described, a body having an imperforate bottom wall, said body having a plurality of screened ventilating openings, a roof having an opening, a shaft extending through the body and the opening of the roof, and bridge bars arranged within the body and extending longitudinally thereof adjacent said ventilating openings.

1,477,683. ACCELERATOR FOR INTERNAL-COMBUSTION ENGINES. ENNIS F. BATEMAN, Dallas, Tex. Filed Mar. 14, 1923. Serial No. 625,016. 2 Claims. (Cl. 74—81.)



2. An accelerator for internal combustion engines comprising a push rod, an adjustable bearing for said push rod secured to the engine body, and means for connecting said push rod with the fuel throttle on the engine carbureter, said means including a spring tending to hold said throttle in closed position; said adjustable bearing including an angular bracket bolted to the engine head and a guide for the push rod, said guide having a split foot and bolts tapped in said bracket and engaging in said split foot for adjusting the relative positions between said guide and said bracket.

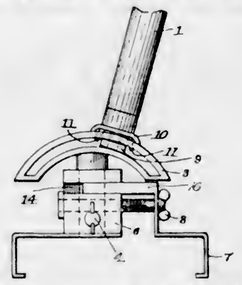
1,477,684. PICKING AND ROCK-DRILLING MACHINE. AUGUST BERNER, Nuremberg, Germany. Filed Aug. 6, 1914. Serial No. 855,421. 4 Claims. (Cl. 255—38.)



1. A rock drill operated by reciprocating air currents comprising a tool cylinder with conduits for the said reciprocating air currents, a tool piston within the cylinder, and a safety air valve in the tool cylinder located so that it permits the escape of compressed air after each forward and return stroke of the tool piston.

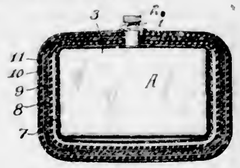
1,477,685. BRUSH CLAMP. EDWARD C. HOSTWICK, Laurium, Mich. Filed May 12, 1921. Serial No. 468,932. 3 Claims. (Cl. 15—146.)

1. In a device of the character described, a main member, a stationary and an adjustable jaw carried thereby, said adjustable jaw having guide arms, the main member having grooves in its sides to receive the guide



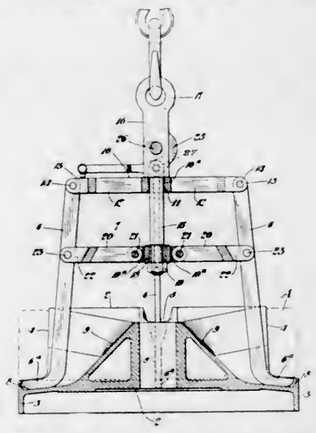
arms, a screw to operate the adjustable jaw, and a handle for the device.

1,477,686. CONTAINER. WALTER P. BRAENDER, Passaic, N. J. Filed Oct. 18, 1918. Serial No. 258,669. 10 Claims. (Cl. 154—46.)



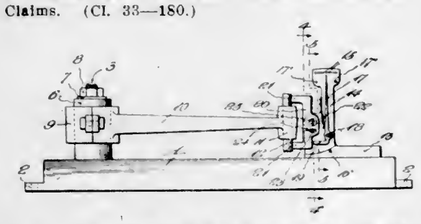
1. A fuel tank comprising a metallic container for holding liquid fuel and an elastic casing therefor enveloping the container, the casing having walls spaced from walls of the container with an air space therebetween, the spacing being such that jagged, spur-like edges of a container wall produced by a projectile passing therethrough will be prevented from reaching the elastic casing and holding open a cut made therein by the projectile.

1,477,687. WIRE-BLOCK STRIPPER. EDWIN FRANCIS BROWN, Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey, a Corporation of New Jersey. Filed Feb. 8, 1923. Serial No. 617,767. 5 Claims. (Cl. 242—79.)



3. The combination with a wire drawing block adapted to have a bundle of wire formed thereon and having a plurality of slots therein, said slots being inclined downwardly and outwardly and flaring upwardly, of a collapsible stripping member having a plurality of bundle engaging arms adapted to enter said slots when in collapsed position and to be automatically moved outwardly by the walls of said slots into position under the bundle formed on said block, and means on said stripping member for locking said bundle engaging arms in position under said bundle.

1,477,688. CONNECTING-ROD STRAIGHTENING AND TESTING DEVICE. JOHN S. BUCKWALTER, Lancaster, Pa. Filed Mar. 27, 1922. Serial No. 547,059. 3 Claims. (Cl. 33—180.)



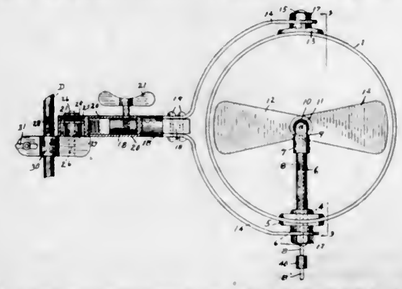
1. In a connecting rod straightening and testing device, a base having a plane horizontal surface, a pivot post projecting therefrom at a right angle, said post being adapted to hold the connecting rod by one of its bearings, and a gauge resting on the surface of said base and including a horizontal arm and a vertical arm, the vertical arm being provided with a scale, a pointer pivoted to said vertical arm and co-operating with said scale, and an upright pivoted beam pivotally connected with the vertical arm and contacting with said pointer.

1,477,689. COMBINATION HAIR TRIMMER AND SAFETY RAZOR. WILLIAM H. BURNS, Chicago, Ill. Filed June 20, 1921. Serial No. 478,962. 16 Claims. (Cl. 30—12.)



3. In a device of the class described, a guard and a comb having registering slots, a clamping screw having a squared shoulder fitting in the slots and extending beyond the comb, a slotted blade and a slotted supporting plate engaging the shoulder, and means cooperating with the clamping screw to hold the parts together.

1,477,690. FAN FOR CLEAR VISION. JAMES FRANKLIN CALLAWAY, Salt Lake City, Utah. Filed Mar. 6, 1922. Serial No. 541,613. 2 Claims. (Cl. 296—84.)



2. A fan for clear vision, a frame for said fan having flanges secured thereto, a bracket pivotably connected to said frame for supporting said frame, said bracket

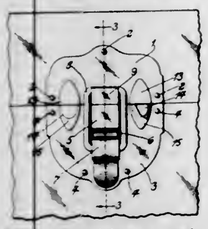
having a sleeve secured thereon for adjusting the length of said bracket, said sleeve having a spring therein for holding said frame to said windshield, said sleeve having an adjusting bracket secured thereto for adjusting said fan to the frame of said automobile.

1,477,691. PHARMACEUTICAL PRODUCT. JÜRGEN CALLSEN, Elberfeld, Germany, assignor to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Filed Jan. 2, 1923. Serial No. 610,364. 2 Claims. (Cl. 167—7.)

1. The hereinbefore described new solutions of hydroaromatic ketones containing an isopropyl side chain in meta-position to the keto group in solutions of salts of organic acids, being valuable pharmaceutical products as analeptics, substantially as described.

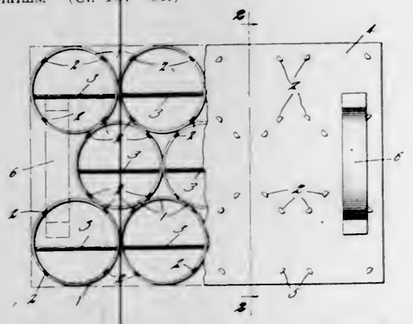
2. The herein described new solution of 3-methyl-5-isopropyl-Δ-2-cyclohexenon in an aqueous solution of sodium salicylate, being a valuable pharmaceutical product as an analeptic, substantially as described.

1,477,692. TRUNK BOLT. LEWIS W. CHRISTOPHEL, St. Louis, Mo. Filed Jan. 16, 1922. Serial No. 529,476. 2 Claims. (Cl. 292—247.)



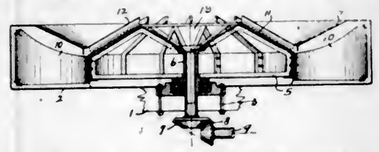
1. A trunk bolt comprising a pair of cooperating members, a locking bolt carried by one member and engaging the other to lock said members together, a pair of tongues carried by one member and engaging receivers in the other member, and a third tongue depending from one of said members disposed between said first mentioned tongues and adapted to pass into a socket in the other member when said members are united, said last mentioned tongue being composed of a strap of metal having a rebent part engaging its supporting member, a head thereon constituting an engaging element for the bolt, and a downwardly extending part receivable in said socket in the other member.

1,477,693. ROLL CUTTER. MARY CLARK, Garden City, Kans. Filed July 18, 1921. Serial No. 485,475. 3 Claims. (Cl. 107—51.)



1. A cutter including a ring, a scoring knife extending across the ring at one side of the center thereof and having an edge above the plane of the bottom of the ring, and a handle, said blade being fixed relative to the ring.

1,477,694. COTTON GIN. CHARLES L. DICKERMAN and WILLIAM E. CUMMINGS, Houston, Tex. Filed Nov. 20, 1920. Serial No. 425,392. 3 Claims. (Cl. 19—48.)



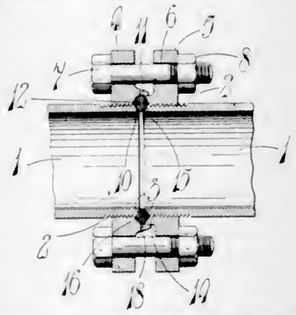
2. A cotton gin, including a fixed circular casing whose upper side is formed into a hopper, a frusto-conical shaped turbine therein having an abrading surface which is exposed through said hopper, means for rotating said turbine, radiating blades fixed to the turbine and spaced apart therearound, stripper blades fixed to the casing and disposed to co-operate with said abrading surface and means for rotating the turbine.

1,477,695. FLEXIBLE SPIRAL TUBE. ARTHUR H. DOLGE and CHARLES F. HENDRICKS, Westport, Conn. Filed Apr. 17, 1920. Serial No. 374,745. 1 Claim. (Cl. 27—24.)



In a device for the purpose set forth, the combination of a flexible tube, a tip secured to one end, a flexible metal spiral tube of fine wire connected integrally to one end of the tube, a cap secured on the upper end of the fine tube, openings formed in the side walls of the cap and depressions arranged adjacent the openings.

1,477,696. PIPE JOINT. HUBERT DOLLMAN, Birmingham, England. Filed June 1, 1922. Serial No. 565,235. 3 Claims. (Cl. 285—134.)



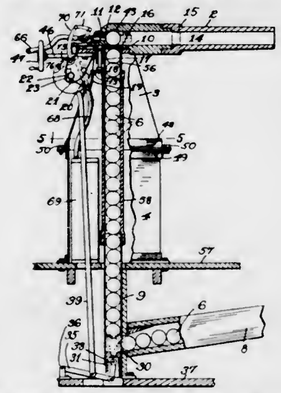
1. A pipe joint comprising two pipes having inclined ends, two flanged coupling members, one adjustably mounted on the end of each of said pipes, non-metallic packing disposed between said coupling members, an annular projection on one of said coupling members extending axially from the face of its flange and beyond the end of the pipe on which said coupling member is mounted and constituting a socket, this projection having holes communicating with the interior of the socket for the purpose of temporarily securing this packing in position, said socket having an inclined end face, an annular projection on the other coupling member constituting a spigot projecting axially from the end of the pipe on which this coupling member is mounted and adapted to slide within said socket portion, said spigot having an inclined end face, and means for drawing and securing said coupling members together while the packing is secured in position.

1,477,697. RAILROAD-CROSSING SIGNAL. ROBERT J. DOUGHERTY, Canton, Ill. Filed Aug. 24, 1923. Serial No. 659,010. 4 Claims. (Cl. 246—293.)



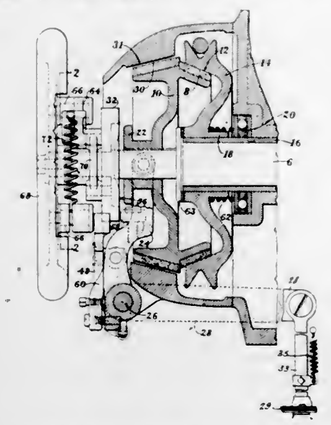
1. In combination with a series of posts arranged alongside of a railroad track and certain of which are disposed at opposite sides of a crossing, a station at one side of which said posts are positioned, a cable guide carried by the post furthest from the station, a cable passing around said guide and having parallel upper and lower strands extending parallel to the track adjacent the posts, guides for said strands carried by said posts, a horizontal support connecting the posts at opposite sides of the crossing, a signal arm pivoted between its ends to said support for vertical swinging movement and having its upper end attached to the upper strand of said cable, and means within the station for selectively operating to exert a pull upon either strand of said cable at will.

1,477,698. PNEUMATIC CANNON. ALFRED EMMELIN, New York, N. Y. Filed Dec. 6, 1922. Serial No. 605,152. 18 Claims. (Cl. 124—8.)



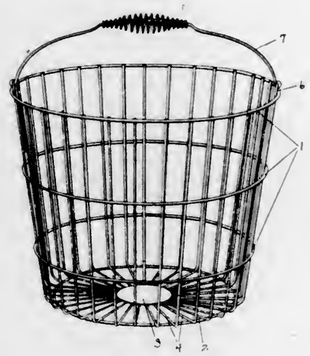
4. In a pneumatic ball projector, the combination with a compressible ball, of a barrel having its bore slightly constricted at an intermediate portion to retard the ball, said barrel having an opening at its rear end to admit the ball, a valve arranged to control said opening, a guide member arranged to feed the balls to said valved opening in the barrel, said guide member having an opening to receive the balls, a plunger movable in the guide member at said opening to admit a single ball to the guide member and to advance the balls through the guide member to the barrel, and a support for the barrel on which the barrel can swing on a lateral axis, said support being arranged for movement to swing the gun laterally, said ball guide member including a flexible portion to permit the training of the gun on said movable supports.

1,477,699. STOP MECHANISM. ALFRED B. FOWLER, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 3, 1919. Serial No. 274,608. 16 Claims. (Cl. 192—147.)



1. A stop mechanism having, in combination, a driven member, a driving mechanism therefor, means under the control of the operator for throwing out the driving mechanism at a point in the rotation of the driven member dependent upon the speed of the driven member, and means for stopping the rotation of the driven member after the driving mechanism is thrown out.

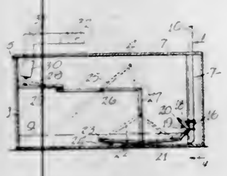
1,477,700. WIRE BASKET OR RECEPTACLE. BIRNEY H. FULLER, Los Angeles, Calif., assignor to United Steel and Wire Co., Battle Creek, Mich. Filed Feb. 14, 1922. Serial No. 536,461. 3 Claims. (Cl. 220—19.)



1. A wire receptacle comprising a plurality of wire side hoops, a wire bottom hoop, a metal bottom center disk, angled integral side and bottom slat members formed of folded pieces of wire welded to said hoops and center disk, said hoops being arranged on the outer side of said slat members with the bight portions of the members on the under side of the bottom disk and the bottom hoop disposed adjacent the angles of the members and the top hoop at the upper ends of said

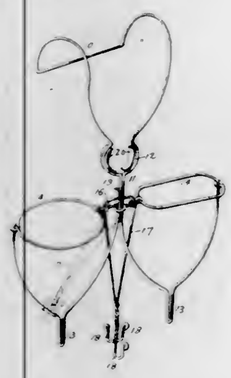
members, and handle loops disposed on the inner side of the top and intermediate hoops and welded thereto with the bight ends of the loops projecting above the top hoop to receive a handle.

1,477,701. BANK-PROTECTIVE DEVICE. NATHANIEL R. GREEN, Sioux City, Iowa. Filed Jan. 19, 1922. Serial No. 530,489. 3 Claims. (Cl. 20—1.01.)



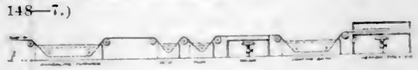
3. A device of the character described comprising a tank for holding a liquid under pressure, a liquid outlet pipe communicating with said tank, a valve connected with said outlet pipe and conducting pipes connected with said valve for conveying liquid to points remote from said tank, a frame, a spring actuated handle for said valve, an angle iron having one end pivotally secured to said frame and arranged to normally lock said valve handle against movement in one direction, a pair of links pivotally secured to each other and adapted to normally lie in substantial alignment with each other, one of said links being secured to said frame, a stop for preventing the links from movement in one direction, a lever secured to said frame, a link connecting said lever with the adjacent ends of said first named links, and means for swinging said lever so as to swing said first named links away from said stop, whereby said angle iron may move to permit movement of said handle of said valve.

1,477,702. HANGER. FRANCIS C. HALL, Washington, D. C. Filed Nov. 3, 1922. Serial No. 598,940. 3 Claims. (Cl. 248—26.)



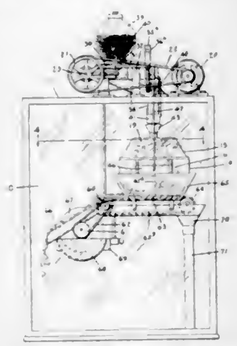
1. An article of the class described having a stem which at the upper end has a suspending means and which at the lower end terminates in feet having between the suspending means and the feet on opposite sides article supporting devices and a member having a pivotal connection with the stem and adapted to serve either as a suspending device or as a leg to support the article after the fashion of an easel.

1,477,703. PROCESS OF COATING AND TREATING MATERIALS. JOSEPH L. HERMAN, Peoria, Ill. Filed Mar. 25, 1922. Serial No. 546,705. 1 Claim. (Cl. 148—7.)



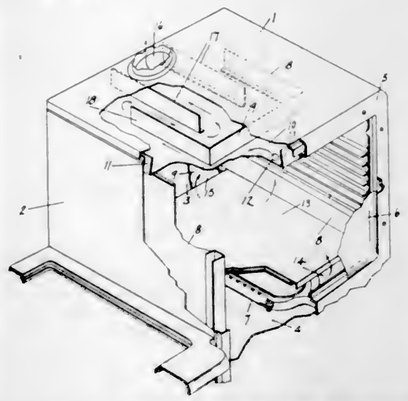
The process of coating materials having an iron base which consists in subjecting the same to a coating bath and then heat-treating such coated material at temperatures at or above 788 degrees F., for a certain interval of time, the time varying with the nature of the material heat-treated and the temperature to which the material is subjected, such time interval varying inversely with the temperature.

1,477,704. POP-CORN MACHINE. JAMES I. HOLCOMB and JACOB F. HOKE, Jr., Indianapolis, Ind., assignors to Holcomb & Hoke Mfg. Co., Indianapolis, Ind. Filed Nov. 12, 1920. Serial No. 423,625. 11 Claims. (Cl. 53—4.)



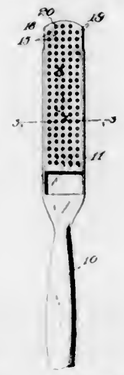
1. A pop corn machine including a transparent cabinet, a circular corn popping hot plate therein, and a circular heat and corn retaining cover for the hot plate with the upper portion thereof transparent.

1,477,705. GAS OVEN. GEORGE W. HOWES, Dowagiac, Mich., assignor to Beckwith Company, Dowagiac, Mich. Filed June 25, 1923. Serial No. 647,654. 5 Claims. (Cl. 126—275.)



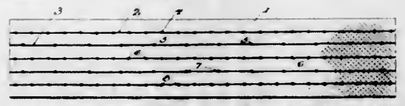
5. In an oven, the combination of a casing comprising top, rear and side walls, the top wall having a flue opening disposed centrally at the rear thereof, inner side and rear walls disposed in spaced relation to the corresponding casing walls with their upper edges in spaced relation to the top wall, an inner top wall disposed on the upper edges of said inner walls, said inner top wall having upturned flanges at its edges engaging said top wall, said inner top wall having circulation openings therein, and baffle plates mounted on said inner top wall disposed in such relation to said openings therein and said flue opening as to cause the products of combustion to take a circuitous passage from said circulation openings to said flue openings.

1,477,706. TOOTHBRUSH AND METHOD OF MAKING IT. HEINRICH KARL, Jersey City, N. J. Filed May 4, 1921. Serial No. 466,752. 5 Claims. (Cl. 15—192).



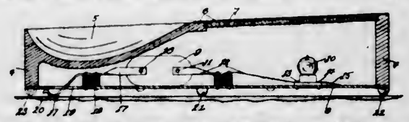
1. A tooth brush comprising a backing carrying bristles, said bristles being coated from their bases partway to their tips with an oleaginous film serving to strengthen them and render them less brittle, and a hardened plastic mass uniting said bristles at their base portions with said backing.

1,477,707. BELTING. WILLIAM S. LANGFORD, Baltimore, Md. Filed Oct. 21, 1922. Serial No. 595,987. 3 Claims. (Cl. 74—62.)



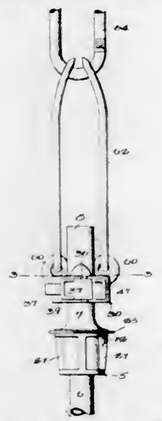
1. A solid woven belting provided with a plurality of lines of stitching disposed longitudinally of the belting, the stitches of the several lines of stitching being of varying lengths, said stitches interlocking with the woven elements of the belting and forming with the belting a unitary structure.

1,477,708. ILLUMINATED COIN TRAY. HENRY I. LARSON, Minneapolis, Minn., assignor to Good-Will Mfg. Company, a Corporation of Illinois. Filed Jan. 13, 1922. Serial No. 529,033. 5 Claims. (Cl. 177—346).



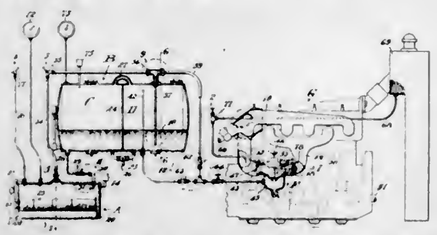
2. A device of the class described consisting of a suitable frame comprising a coin tray at its forward end and having a translucent element over its rear end, said coin tray being movable up and down, a lighting element under said translucent element and means for automatically illuminating the lighting element by pressing said tray downward.

1,477,709. TOOTHLESS SLIP AND ELEVATOR. JOHN E. LEBUS, Electra, Tex., assignor to George F. Le Bus, Wichita County, Tex. Filed Aug. 16, 1922. Serial No. 582,326. 13 Claims. (Cl. 294—91.)



1. The combination of a pair of slips having upstanding tongues, the edges of which are spaced from each other, and an elevator having shoulders arranged between the spaced edges of said tongues.

1,477,710. MEANS AND METHOD FOR OPERATING COMBUSTION ENGINES FROM GAS DERIVED FROM CALCIUM CARBIDE. ROY J. MEYERS, Long Beach, Calif., assignor to International Gas, Power and Appliance Company, Long Beach, Calif., a Corporation of Arizona. Filed Feb. 3, 1923. Serial No. 616,633. 29 Claims. (Cl. 123—25.)



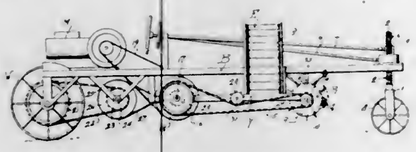
1. The method of operating combustion engines from gas derived from calcium carbide, consisting in placing gas in a reservoir, generating gas from calcium carbide in a generator, delivering gas through one pipe line from the generator and through another pipe line from the reservoir, then uniting the gas stream lines and delivering the united lines to an engine, compressing and exploding the gas in the engine to operate the latter, delivering gas from the generator to the reservoir to replace the gas discharged from the reservoir and thereby maintain substantially a constant pressure in the reservoir, and feeding water to calcium carbide in the generator in such quantity as to generate gas in a volume substantially corresponding to the volume used by the engine.

1,477,711. [WITHDRAWN.]

1,477,712. LOADING APPARATUS. ELMER O. NELSON, Hatton, N. Dak. Filed Apr. 9, 1921, Serial No. 459,938. Renewed May 15, 1923. 2 Claims. (Cl. 198—9.)

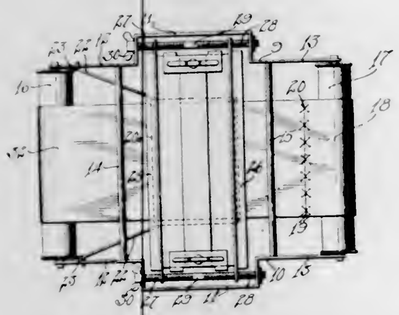
1. An apparatus of the class described comprising a portable body, an underhung frame carried thereby, an elevator moving transversely of the underhung frame and

discharging above and to one side of the bottom, a rotary element provided with material engaging means, said element being positioned in advance of the frame, one end portion of the means carried by the frame for



rotatably supporting an end portion of the element, a bearing depending from the body for supporting the opposite end portion of the element, and means for rotating the element in a direction to cause said element to throw material upwardly thereover and back upon the elevator.

1,477,713. WRINGER ATTACHMENT. WILLIAM S. OSGOOD, Jr., Chicago, Ill. Filed Oct. 30, 1922. Serial No. 597,883. 2 Claims. (Cl. 68—32.)



1. The combination of a wringer having frame and a pair of normally contacting wringer rollers, of a supporting frame, means for removably clamping said supporting frame on said wringer frame, said means comprising a pair of oppositely disposed clamping irons arranged to be moved toward and away from each other by turn bolts having left and right-handed threads at their opposite ends respectively, a pair of idler rollers carried by said supporting frame, a belt adapted to pass between said wringer rollers and over said idler rollers at its outer ends, means for fastening the opposite ends of said belt together to form an endless belt, and a guide member pivotally supported by said frame and adapted to engage with said belt, whereby said belt is prevented from movement laterally.

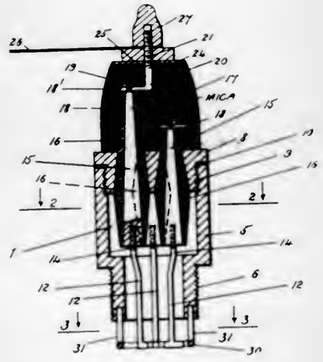
1,477,714. TUBE SUPPORT FOR DEEP-WELL PUMPS. JOHN PENROD and ROBERT D. THOMPSON, Okmulgee, Okla. Original application filed Aug. 24, 1921, Serial No. 494,846. Divided and this application filed Apr. 1, 1922. Serial No. 548,606. 1 Claim. (Cl. 103—219.)

The combination with a fluid pump for operation within well casings and including a sectional barrel and external coupling rings connecting the sections of said barrel and forming upper and lower stops, of a pair of vertically opposed members on the barrel, the upper member of which is stationary and the lower member of which has limited sliding movement on the barrel and between said upper and lower stops toward and away from the stationary member, a flexible sleeve around the barrel between said stationary and sliding members, toothed casing gripping members coacting with the said slidable member, a ring movable on the barrel having flexible connection with said gripping members and whose upward movement is limited by the lower stop,



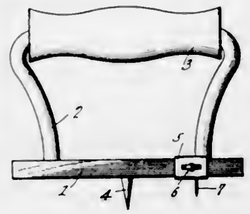
and an actuating member for the gripping members consisting of a ring movable on the barrel, having a supporting spring and movable into engagement with the said ring of the gripping members as described.

1,477,715. SPARK PLUG. THEODORE P. PETERSON, Wessington Springs, S. Dak. Filed Nov. 2, 1920. Serial No. 421,303. 2 Claims. (Cl. 123—169.)



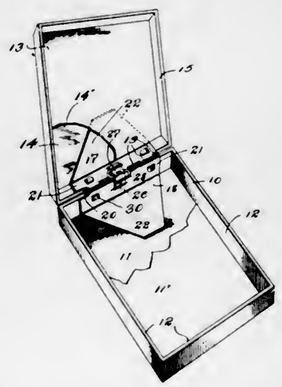
1. In a spark plug, a plug body, a removable cap closing the top of the plug body, an insulated rod electrode projecting through the said cap and provided with means which prevent it from sliding upwardly, said rod electrode being adapted to form a spark gap at the lower part of the plug body, a block formed of thin superposed plates of insulating material resting on the said cap, an anchor plate inclosed in the said block, and secured to the rod electrode and having a screwthreaded stem which projects from the block and affords a connection for the line wire, and a nut screwed on the said stem and securing the rod electrode and the said block to the cap.

1,477,716. CAN OPENER. ROY R. QUACKENBUSH, Grand Rapids, Mich. Filed Aug. 1, 1922. Serial No. 579,006. 1 Claim. (Cl. 30—3.)



In a can opener the combination with a bar, of a yoke fixedly connected at its ends to the end portions of the bar, a handle carried by the yoke, a prong fixed to and extending from the center of the bar, a sleeve embracing and slidably mounted on the bar, said sleeve being insertible onto either end of the bar, and movable from the prong to the end of the bar, the top of the sleeve being opened to pass the yoke, a cutting blade struck from and integral with the sleeve, and means carried by the sleeve for engaging the bar to hold the sleeve against movement along the bar.

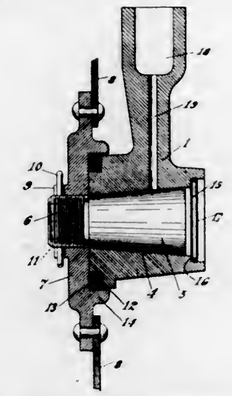
1,477,717. HINGE CONSTRUCTION. RUSSELL I. RHODES and PARKER T. SIMMONS, North Attleboro, Mass. Filed Feb. 5, 1920. Serial No. 356,511. 1 Claim. (Cl. 16—135.)



A device of the character described comprising a body and lid formed of laminations of paper or the like, a hinge element including a pair of leaves each having knuckles pivotally connected, adjacent base parts secured to the box and lid respectively, and integral broad plates extended outwardly from the base parts laid between the laminations of the respective parts named and equalling in extent a substantial part of the superficial area of the engaged box and lid parts.

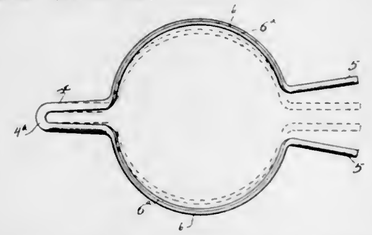
1,477,718. BEARING. ROBERT S. RODGERS, Springfield, Ohio, assignor to The American Seeding Machine Company, Springfield, Ohio, a Corporation of Ohio. Filed Mar. 13, 1922. Serial No. 543,140. 6 Claims. (Cl. 64—10.)

1. In a bearing for furrow openers, a member having a tapered bearing therein, a tapered spindle in said bearing and a disk adjustably connected with the small end of said spindle so as to be movable thereon and said



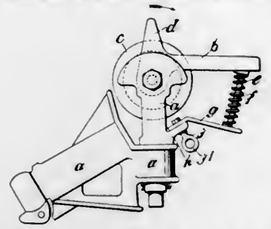
spindle being rotatable with said disk toward the bearing to take up wear between the spindle and bearing, said bearing and spindle being tapered toward the disk.

1,477,719. LENS-RIM REMOVING AND REPLACING DEVICE. ALFRED BRUNO SEPPMANN, Lake Crystal, Minn. Filed Apr. 14, 1923. Serial No. 632,090. 2 Claims. (Cl. 81—64.)



1. In a device for removing and replacing the lens rims of headlights, a pair of opposed semi-circular clamping portions, each provided at each end thereof with an outwardly directed arm, corresponding arms at one side of such portions having a connection therebetween tending to separate such semi-circular portions.

1,477,720. TROLLEY HEAD FOR ELECTRIC TRAMCARS. FRED SHARP and JOHN MARTIN, Barrow-in-Furness, England. Filed Aug. 4, 1921. Serial No. 489,907. 1 Claim. (Cl. 191—78.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



In a trolley head, the combination of a forked frame, a journal pin connecting the arms of said frame, a trolley wheel journaled on said pin, rotatable shield members also journaled on said pin between each arm of

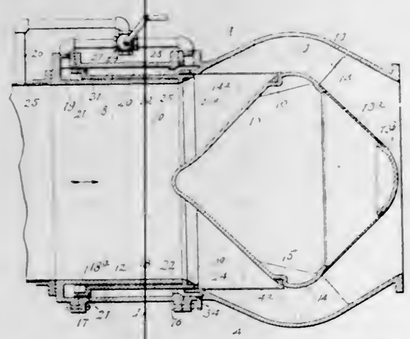
the frame and the adjacent side of the trolley wheel adapted in normal position to project above the wheel to prevent lateral disengagement of a trolley wire therefrom, mutually connecting arms projecting from the shield, a bracket on said forked frame, a rod secured at one end to said bracket and at its other end being slidable through the mutual connection of said arms, a stop on the last mentioned end of said rod to limit rotative movement of said arms and said shields in one direction, a compression spring surrounding said rod and bearing at its ends against said bracket and said mutual connection, respectively, to hold said mutual connection against said stop whereby the shields are held in normal position and permitted to yield in one direction.

1,477,721. STROPPING HOLDER FOR SAFETY-RAZOR BLADES. PARKE E. SHEE, Lancaster, Pa., assignor of one-half to Edward I. Noble, Lancaster, Pa. Filed Oct. 5, 1921. Serial No. 505,446. 1 Claim. (Cl. 30—25.)



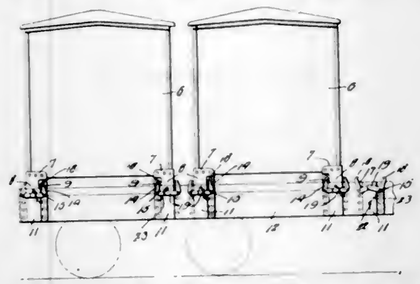
A stropping holder for safety razor blades, comprising two strips pivotally connected adjacent one end and adapted to receive and clamp a razor blade between them, one of the strips having a stud projecting therefrom toward the other strip, and the other strip being formed to receive said stud, and a tubular guard and clamp pivotally connected to one of the strips and adapted to be turned to embrace both strips and hold them in close engagement with a razor blade arranged between them, said guard extending throughout the length of the blade and across the rear edge thereof, the back of said guard, at the free end thereof, being bent forward to abut the edges of the clamping strips.

1,477,722. VALVE. DONALD W. SLATTERY, East Cleveland, Ohio, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 6, 1919. Serial No. 342,886. 6 Claims. (Cl. 137—139.)



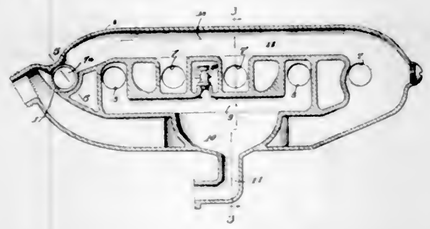
6. In a valve, a valve body having an enlarged portion containing an inner seat member with spacing ribs between the seat member and body, and said body having an annular chamber open toward the seat member, an annular movable valve in said chamber having a portion adapted to slide over said ribs into and out of engagement with the seat member and having a portion in said chamber constituting a piston dividing the chamber into separate fluid receiving portions.

1,477,723. INTERCHANGEABLE CAR UNIT. ALFRED H. SMITH, New York, N. Y. Filed Nov. 5, 1920. Serial No. 422,083. 6 Claims. (Cl. 105—366.)



1. In a freight car the combination with a series of compartments removably mounted thereon, legs depending from said compartments, lugs on said legs and dogs pivotally secured to the car and adapted to interlock with said lugs and lock the compartments on the car.

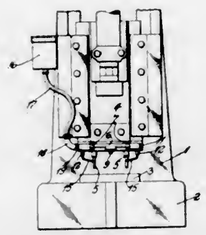
1,477,724. VAPORIZER. MAURICE O. SMITH, St. Louis, Mo. Filed Jan. 26, 1920. Serial No. 354,150. 2 Claims. (Cl. 123—122.)



1. A vaporizer for internal combustion engines comprising a combined intake and exhaust manifold, the exhaust portion of the manifold having upper and lower passages connected to each other at each end, an enlargement formed in the lower passage approximately at its middle, the intake portion of the manifold being formed integral with the exhaust portion and lying almost wholly within the lower passage, a bowl-shaped enlargement formed integral with the intake portion and lying within the enlargement formed in the exhaust portion, an elbow formed integral with said bowl-shaped enlargement and extending beyond the exhaust portion of the manifold and adapted to having a carbureter attached thereto, a screw threaded outlet formed on one end of the exhaust portion, said outlet normally communicating with both upper and lower passages, a valve located in the upper passage adjacent the outlet for regulating the flow of gases through the exhaust portion of the manifold, means for holding said valve in set position, exhaust and intake ports formed in the manifold for communicating with the exhaust and intake ports of an internal combustion engine, means whereby the bowl-shaped enlargement of the intake portion may be opened to the atmosphere for the introduction of air directly into the intake portion of the manifold, and means whereby the enlargement of the exhaust portion of the manifold can be opened for cleaning purposes.

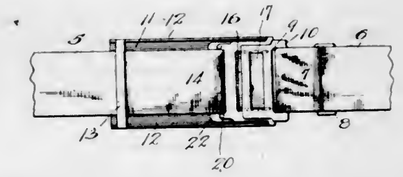
1,477,725. OILER. THOMAS SMITH, St. Louis, Mo. Filed Oct. 6, 1922. Serial No. 592,701. 4 Claims. (Cl. 164—86.)

1. An oiler adapted to be applied to a machine having a stationary and reciprocating part, comprising a conduit supported by and moving with the reciprocating part, and a valve in said conduit operated solely by



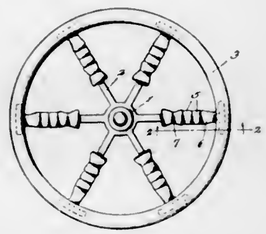
the vibration of the reciprocating part of the machine, and a nozzle leading from said valve to deliver measured quantities of lubricant to a selected part of the machine.

1,477,726. BELT BUCKLE. MARY STARMER, Newport News, Va. Filed Mar. 23, 1922. Serial No. 545,938. 2 Claims. (Cl. 24—78.)



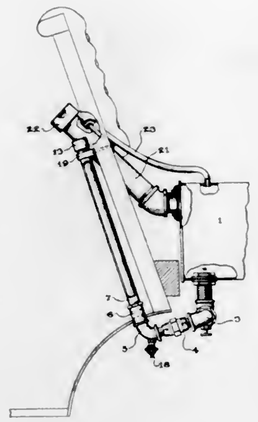
1. The combination with a buckle having a rear plate fashioned with teeth to form a fixed jaw, and pivot studs projecting from said jaw, of a jaw provided with teeth, and having perforations for said pivot studs and a head on said pivoted jaw extending laterally therefrom for moving the jaw to locked position under pressure from a belt.

1,477,727. STEERING WHEEL. ERVIN C. STENBERG, Denver, Colo. Filed Dec. 19, 1921. Serial No. 523,473. 3 Claims. (Cl. 74—33.)



1. A steering wheel comprising a hub, a plurality of radial spokes, a plurality of gripping members fitted upon the outer end portions of the spokes, and stops on the spokes abutting and restraining the said gripping members.

1,477,728. GAUGE AND FILLER SPOUT FOR GASOLINE TANKS. WILFRED H. STEPHENSON, San Antonio, Tex. Filed Oct. 9, 1922. Serial No. 593,379. 1 Claim. (Cl. 220—86.)



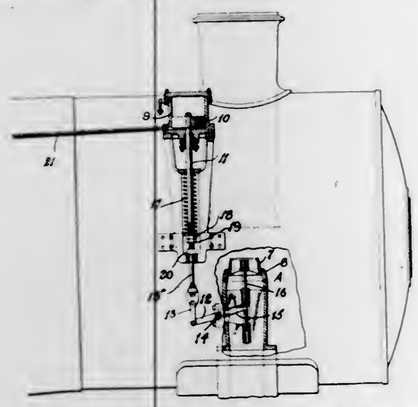
The combination with an automobile and a gasoline supply tank arranged beneath the seat thereof, of an angularly disposed filling tube leading from the supply tank and extending to the side of the automobile, and an air vent tube leading from the upper wall of the supply tank through the side of the automobile and communicating with the interior of the filling tube at a point adjacent its upper end.

1,477,729. IDENTIFICATION-TAG CHAIN. ANTON J. THOMA, Cincinnati, Ohio, and ALEXANDER EKLUND, Attleboro, Mass., assignors to General Chain Company, Providence, R. I., a Corporation of Massachusetts. Filed Nov. 4, 1922. Serial No. 599,008. 3 Claims. (Cl. 40—2.)



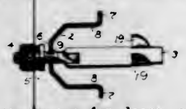
1. An identification-tag chain having a hollow connector member adapted to carry an identification mark, one end of said chain being permanently attached to said connector, and a lock link comprising a resilient piece of wire bent twice upon itself and having substantially oppositely extending ends, one of said ends being adapted to readily engage any one of the several links of the chain to regulate its working length and the other end being offset and adapted to enter the connector and permanently lock the link therein.

1,477,730. LOCOMOTIVE DRAFT APPLIANCE. ALBERT J. TOWNSEND and HERBERT W. SNYDER, Lima, Ohio. Filed Feb. 4, 1922. Serial No. 534,155. 6 Claims. (Cl. 162—8.)



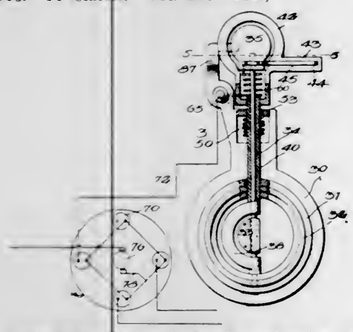
1. The combination in a steam locomotive, of a variable exhaust nozzle and means for operating the same controlled by the drop in steam pressure between the boiler and the cylinders.

1,477,731. LOCKING ATTACHMENT FOR DOORS. SEBASTIEN ULRICH, Akron, Ohio. Filed Apr. 25, 1922. Serial No. 556,468. 2 Claims. (Cl. 292—294.)



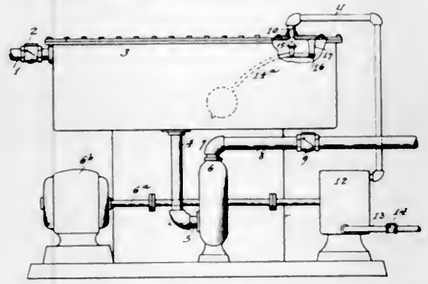
1. A locking attachment for doors, comprising a flat, wide sheet-metal yoke having an opening in its cross connecting portion relatively near one side edge thereof and offset in respect to the longitudinal medial line, a blade having hook portions at one end integral with the side edges and bent at right angles to the flat side of the plate and a round screw-threaded extension at its opposite end adapted to project through the opening in said yoke member, and a thumb-nut adapted to engage the screw threaded extension of said blade.

1,477,732. MISS DETECTOR FOR INTERNAL-COMBUSTION ENGINES. FREDERICK H. VALITON, Deer Lodge, Mont., assignor of one-half to Philip L. O'Neill, Deer Lodge, Mont. Filed Nov. 22, 1922. Serial No. 602,546. 14 Claims. (Cl. 116—114.)



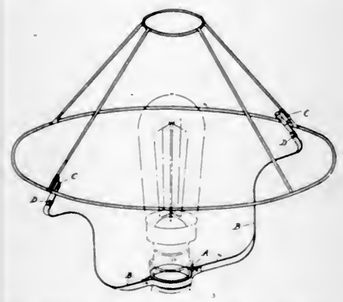
5. A miss-detector for internal combustion engines comprising a body, a shaft rotatably supported by said body and having an exhaust contact wing arranged in the path of travel of the exhaust, an indicator head connected to said shaft, a second shaft of tubular formation receiving the first named shaft and having a second exhaust contact wing, a second indicator head connected to said second named shaft, cooperating means carried by said first and second named heads to indicate when the engine is miss-firing, and a bracket limiting the rotation of said first and second-named heads.

1,477,733. FLUID-REMOVING DEVICE. FRANK VAN INWAGEN, Chicago, Ill., assignor of three-fourths to Gordon L. Harris, Chicago, Ill. Filed Apr. 18, 1921. Serial No. 462,469. 4 Claims. (Cl. 103—6.)



1. In a fluid removing device for the removal of fluids from systems, the combination with a collecting means connected with the system outflow line, of liquid and gas drawoffs connected thereto, means automatically controlled by the liquid level in the collecting means for controlling the withdrawal of the gas and liquids removed from the system.

1,477,734. LAMP-SHADE CARRIER. HENRY JAMES WAITE, Peckham, England. Filed July 13, 1922. Serial No. 574,834. 1 Claim. (Cl. 240—148.)



A lamp shade carrier comprising a central ring, a plurality of arms attached to said ring and a member pivoted to the extremity of each of said arms having two jaws each consisting of a pair of parallel semicircular sections joined by a flat section so as to form a spring grip adapted to engage directly at any position an arm of the lamp shade.

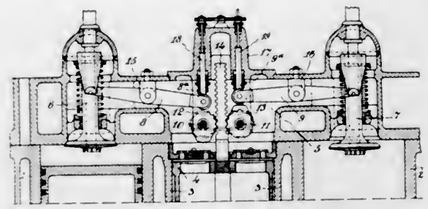
1,477,735. ELECTRIC FUSE IGNITER. MENDEL P. WEINBACH, Columbia, Mo. Filed Apr. 21, 1920. Serial No. 375,546. 5 Claims. (Cl. 175—91.)

5. A fuse lighter comprising a handle member and a fuse member for detachable association with the handle member, electric conductors disposed in the handle member, one of which is provided with a gap, a sliding member for bridging the gap, a socket carried by the outer end of the handle and having the conductors connected thereto, a plug carried by the fuse receiving member for engagement in the socket, a conductor wire



in the fuse member connected with the terminals of the plug, and a resistance wire disposed in the conductor wire carried by the fuse receiving member disposed adjacent to the outer end thereof.

1,477,736. TWO OR MULTI CYLINDER COMBUSTION ENGINE. ARTHUR OSKAR LEONARD WENNERBY, Halmstad, Sweden. Filed Dec. 11, 1922. Serial No. 606,271. 7 Claims. (Cl. 123—59.)



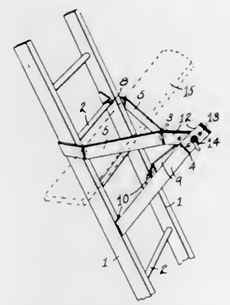
7. Improvement in two-scylinder combustion engines, comprising a reciprocating compression pump, the cylinder of which is located between the working cylinders, a crank on the main crank shaft of the engine and intended for driving the compression pump, a hollow cover common to all of the cylinders and forming a compression chamber connected with the pump by means of valves, a double toothed rack affixed to the pump piston and intruding into the compression chamber, a revolvable toothed member arranged at each side of and in mesh with said toothed rack, a cam disc connected with each of the toothed members so as to rotate with the same, an air valve for each of the working cylinders and located within the compression chamber, an interconnecting lever for each of the air valves one end of said lever being provided with a roller carried in contact with a cam disc and the other being in actuating connection with an air valve for opening the same against the action of a closing spring, an extension disconnectably affixed to the common cylinder cover, two fuel pump cylinders arranged within said extension and a plunger reciprocably arranged in each fuel pump cylinder and acted upon by a spring tending it to perform the suction strokes, each of said plungers intruding into the path of movement of each of the rollers, the movement of which performs the pressure strokes of the fuel pumps in correct timing with regard to the strokes of the engine.

1,477,737. LOCKING MECHANISM FOR ELEVATOR DOORS. BENJAMIN WEXLER, Brooklyn, N. Y., assignor to The Peelle Company, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 31, 1918. Serial No. 260,484. 4 Claims. (Cl. 187—59.)



2. A locking mechanism for elevator doors, consisting of the combination with a plurality of door sections movable in opposite directions, the lower of which sections has a laterally extending hanger bar thereon, and a flexible connection between said sections, of an oscillatory lever pivoted adjacent the side of the door, said lever having a shoulder adjacent the top thereof, forming a stop surface parallel with the surface formed by the top of said lever and projecting toward said hanger bar, said top and stop surfaces being adapted to alternatively pass beneath said hanger bar, the upper of said surfaces being adapted to engage said hanger bar when the doors are completely closed, and the lower of said surfaces being adapted to permit a limited opening movement of the door before engagement with said hanger bar, means having a normal tendency to thrust said lever toward said hanger bar, and co-operating means operative upon said lever and carried by an elevator car, whereby said lever may be withdrawn from its operative relation to said hanger bar, or permitted to assume its operative relation thereto.

1,477,738. LADDER SCAFFOLD BRACKET. HENRY P. WHITE, Benzonia, Mich. Filed Sept. 11, 1922. Serial No. 587,603. 7 Claims. (Cl. 304—36.)



1. In a scaffold bracket, the combination of a pair of bracket members, each consisting of a pair of rearwardly diverging arms, the arms of one of said members being adapted to embrace the side rails of a ladder and terminating in forwardly facing rail engaging hooks, the bills of the hooks having downwardly facing rung engaging hooks thereon, the arms of the other member having inwardly disposed angled offsets adapted to engage the front and inner sides of the ladder rails and terminating in downwardly facing rung engaging hooks, said arms having parallel portions at their front ends with bolt holes therein, and a bolt engageable in said

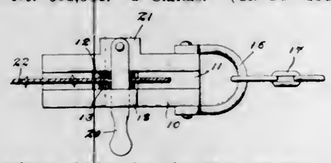
holes for adjustably and pivotally connecting said members, whereby one of the members may be supported to receive the scaffolding and the other to act as a strut therefor.

1,477,739. AUTOMATIC STOP FOR PHONOGRAPHS. ELZA E. WIFORD, Sidney, Ohio. Filed May 20, 1922. Serial No. 562,408. 7 Claims. (Cl. 192—118.)



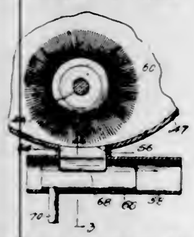
1. An automatic stop for phonographs and the like having a rotary part, a moving part and a brake, comprising a member rotated from the rotary part, a complementary member rotated by the moving part, a catch member to control the brake carried by the complementary member and means operated by the moving part to rotate said complementary member and to effect the catch.

1,477,740. WIRE-GRIPPING DEVICE. ORSON A. WOOLLEY, Magrath, Alberta, Canada. Filed Nov. 22, 1922. Serial No. 602,568. 2 Claims. (Cl. 24—134.)



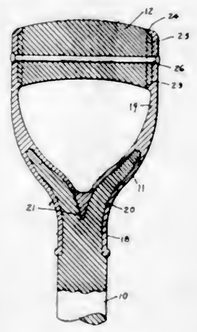
1. A gripper device for the uses described comprising a body member having a longitudinal channel thereacross, a draft connection at one end of the body, a cam device operable in the groove with its periphery presented outwardly in the groove, and being adapted for gripping engagement against a wire or the like, a lever pivoted upon the block to swing across said groove, and a stop element for engagement with the lever having a recess therein open in the direction of draft connections, for the purpose described.

1,477,741. VALVE FOR POWDER DISTRIBUTORS. CHARLES J. WOTHER, Springfield, Tenn. Filed Oct. 1, 1920. Serial No. 413,959. 2 Claims. (Cl. 251—96.)



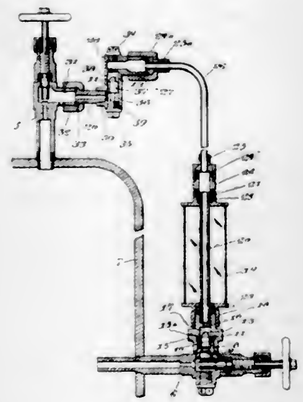
1. A valve comprising a straight casing open at both ends and having an opening in its upper side, an open-ended tubular member arranged longitudinally within said casing and having an opening in its upper side adapted for registration with the opening in said casing, and a radial handle connected to said tubular member and extending through said casing.

1,477,742. HANDLE. THOMAS W. WRIGHT, Anderson, Ind. Filed Oct. 28, 1922. Serial No. 597,541. 7 Claims. (Cl. 287—124.)



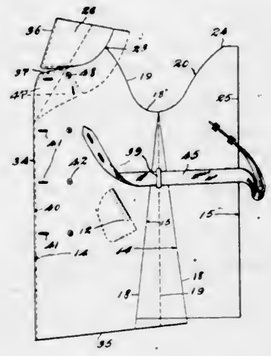
1. A handle construction including a D-handle made of metal with the lower end and the lower portions of the two sides thereof hollow, and a main handle or stem formed with its upper end shaped to fit tightly in the lower end of the D-handle and with prongs fitting tightly in the hollow portions of the sides of the D-handle.

1,477,743. SAFETY VALVE FOR WATER GAUGES. JOHN PETER WULFF, Chicago, Ill. Filed Nov. 25, 1921. Serial No. 517,756. 3 Claims. (Cl. 75—54.)



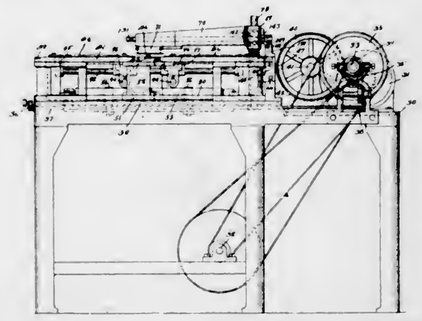
1. The combination with the glass of a water gauge and the connecting means of said glass with the steam and water spaces of the boiler; of a valve chamber in each of said connecting means in communication at one end with the boiler and having at the other end a valve seat communicating with the glass, a valve support in the first-mentioned end of said chamber, a valve in said chamber normally resting in spaced relation to said support, and wings extending laterally from the valve and longitudinally below the lower end thereof for engagement with said support, said wings operating on the wall of the valve chamber to guide the valve into the valve seat when it is actuated.

1,477,744. REVERSIBLE COAT. HAGOP J. YAGHUBIAN, New York, N. Y. Filed Dec. 8, 1922. Serial No. 605,601. 3 Claims. (Cl. 2—86.)



2. In a coat, a sleeve having a front and a rear portion, said portions being curved at the upper outer edges, the radii of curvature of said front and rear portions being different, and the length of the curved edge of the front portion greater than that of the corresponding edge of the rear portion, both edges being united to form a seam by crowding the longer edge to the shorter edge for the purpose of having the outer seam formed by the junction of these two portions lie substantially on the median line of the arm as a prolongation of the shoulder seam.

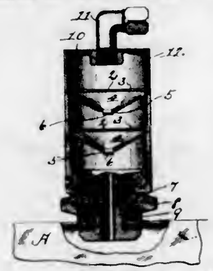
1,477,745. LEATHER-FOLDING MACHINE. JOSEPH W. ANTHONY, Lynn, Mass. Filed Mar. 23, 1918. Serial No. 224,224. 73 Claims. (Cl. 154—41.)



1. In a material folding machine, material clamping means, fold defining means, folding means and adjustable creasing means to permit the creasing of material folded to differing dimensions.

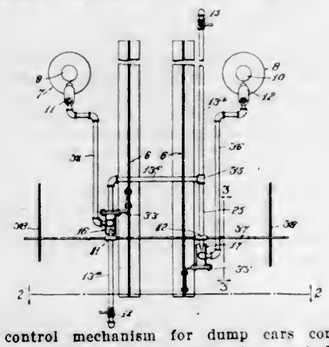
1,477,746. ANTISPLASH DEVICE FOR TANKS. JOHN BAUDINO, Herrin, Ill. Filed Aug. 14, 1922. Serial No. 581,873. 1 Claim. (Cl. 158—46.)

The combination with a gas tank having a hollow exteriorly threaded stem, of a cylinder adapted to be secured to said stem either upon the outside or the inside of the tank, the cylinder being inverted when in the last mentioned position, perforated partitions carried by the cylinder, slotted cones therein co-operating with said partitions, a pipe adapted to receive fumes from said cylinder, and means for admitting air to said gas fumes



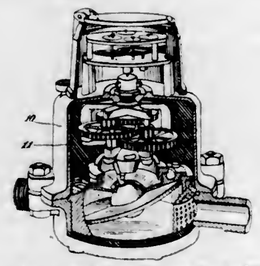
prior to their entry into said pipe, said means also affording an escape for the fumes when suction through said pipe is cut off, as and for the purpose set forth.

1,477,747. CONTROLLING MECHANISM FOR DUMP CARS. JAMES D. BENROW, Aurora, Ill., assignor to Western Wheeled Scraper Company, Aurora, Ill., a Corporation of Illinois. Filed Nov. 16, 1922. Serial No. 601,332. 13 Claims. (Cl. 105—240.)



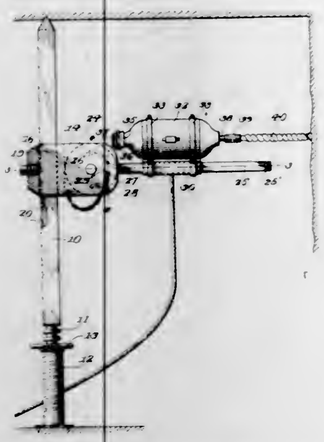
1. A control mechanism for dump cars comprising fluid pressure cylinders for tilting the car bed in opposite directions, a valve associated with each of said cylinders for controlling the admission of fluid pressure thereto, a rock shaft disposed transversely of the car, and means for actuating one or the other of said valves by rocking said shaft in one direction or the other from its normal position.

1,477,748. WATER METER. GEORGE A. BISSELL, Minot, N. Dak. Filed Oct. 20, 1920. Serial No. 418,155. 1 Claim. (Cl. 73—98.)



The combination with a water meter and the mechanism contained therein, of a lining comprising a cylindrical body of soft live rubber having a central cavity opening through both ends of the body, said lining being secured to the walls of all spaces within the meter casing not occupied by the mechanism and being spaced away from the latter.

1,477,749. MINE DRILL. GEORGE DOBSON, Sego, Utah. Filed Aug. 19, 1921. Serial No. 493,687. 1 Claim. (Cl. 255—47.)



A mine drill stand comprising the combination with a supporting column having a series of notches in one of its longer edges, and a platform for supporting a drill motor, of a housing having a vertical opening receiving the column therethrough and having a screw engageable in the said notches, the housing being bifurcated throughout the greater part of its length and formed with transverse central aligned pivot openings for the pivot of the platform and a circular series of openings concentric with the pivot openings for the reception of a pin carried by the housing and engageable through the housing and platform.

1,477,750. COMBINED SHOE AND ARCH SUPPORT. EDWARD S. ANDERSON ENDREA, Chicago, Ill., assignor to Waterproofing, Incorporated, Indianapolis, Ind., a Corporation of Indiana. Filed Oct. 3, 1921. Serial No. 505,157. 3 Claims. (Cl. 36—71.)

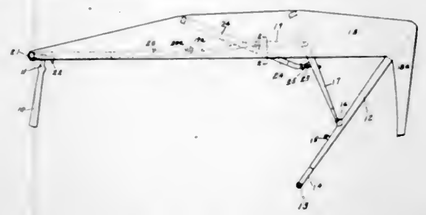


1. The improvement in the art of manufacturing a shoe to fit the arch of the foot which consists in first applying to the last an in-sole having an arch supporting member permanently secured thereto at one side and loose from and projecting beyond the other side of the in-sole, then applying the shoe upper and the sole and finally removing the last from the completed shoe.

2. The improvement in the art of manufacturing a shoe to fit the arch of the foot which consists in first forming a shoe last with a recess to accommodate the desired arch support and attaching the arch support to and at a distance from the lateral edges of the in-sole of the shoe which is to be constructed on the last, then applying the combined in-sole and arch support to the shoe last so that the arch support fits in the recess provided therefor in the last, then temporarily attaching the in-sole to the last, then applying the shoe upper onto the last and securing same to the in-sole, then releasing the in-sole from the last and stitching the shoe sole to the in-sole along the edges of the latter so that the arch support loosely overlies said stitching and then removing the last from the completed shoe.

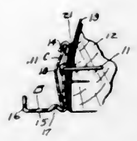
3. In a shoe the combination with the in-sole of an arch supporting member sewed to the in-sole along one edge thereof and loose from and projecting beyond the other edge of the in-sole, said member comprising a plurality of layers of flexible material secured together at a distance from the point of attachment of said member to the in-sole.

1,477,751. VEHICLE TOP. JOSEPH GALAMB, Detroit, Mich., assignor to Ford Motor Company, Detroit, Mich., a Corporation of Delaware. Filed Oct. 27, 1920. Serial No. 419,803. 1 Claim. (Cl. 296—116.)



In an automobile top, the combination with a rear main bow, separated supporting elements disposed thereon at different heights, a rear supporting bow pivoted to the upper supporting element on said main bow and projecting upwardly and outwardly from its point of connection, a pair of parallel forwardly extending bars pivoted to said supporting bow at their rear ends, a front supporting bow pivoted intermediate its ends to said forwardly extending bars, said front supporting bow at its rear end having a detachable connection selectively with the rear supporting bow or the lower supporting element on said rear main bow, and a forward top supporting bow pivoted to the ends of said forwardly extending bars.

1,477,752. DRIP MOLDING AND TRIM RAIL. JOSEPH GALAMB, Detroit, Mich., assignor to Ford Motor Company, Detroit, Mich., a Corporation of Delaware. Filed Mar. 3, 1922. Serial No. 540,913. 5 Claims. (Cl. 296—137.)

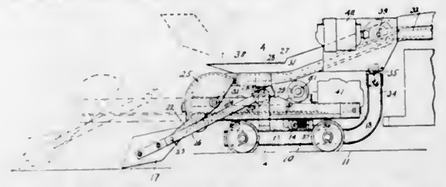


3. In a drip molding and trim rail for roofs, a strip of material having an attaching portion formed therefrom, said attaching portion having its upper edge turned over to form a channel and having its lower edge extended laterally and flanged to form a liquid receiving trough, said laterally extending portion having a bead therein designed to form a channel, and a combined concealing and retaining strip initially formed with an irregular cross-section whereby said strip may be placed against the retaining portion and straightened to force the edges of said strip into said channels.

1,477,753. BASE-EXCHANGE MATERIAL AND PROCESS OF PREPARING SAME. WALTER H. GREEN, Chicago, Ill. Filed Sept. 22, 1920. Serial No. 412,008. 16 Claims. (Cl. 23—13.)

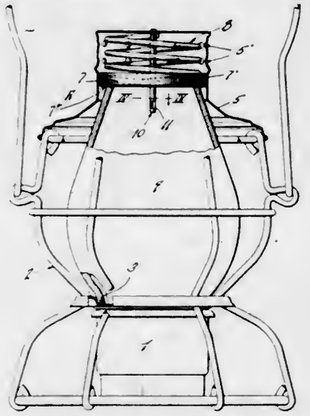
1. The process of treating a baked "zeolite" which comprises rehydrating it by exposing it to steam.

1,477,754. LOADING MACHINE. ROBERT P. GREENLEAF, Cleveland, Ohio, assignor to Frank Billings, Cleveland, Ohio. Filed Apr. 16, 1920. Serial No. 374,326. 11 Claims. (Cl. 214—90.)



1. In a loading machine, a frame, a ram guided on the frame for substantially horizontal movement forwardly and rearwardly, a shovel pivotally connected thereto, and a motor having independent mechanical connections with the ram and shovel for moving the ram forwardly and rearwardly to cause the shovel to receive a load and to retract the shovel and load and for swinging the shovel for dumping purposes.

1,477,755. LANTERN. ALEXANDER H. HANDLAN, St. Louis, Mo. Filed Apr. 21, 1922. Serial No. 555,836. 2 Claims. (Cl. 240—51.)



1. A lantern having a dome, a globe, a seat for the bottom face of said globe, a spring-actuated presser member comprising an annular plate having a face which engages the top face of said globe, a post extending downwardly from the top wall of said dome on which said spring-actuated presser member is slidably mounted, said post being free from supporting devices below said top wall of said lantern dome and being provided with integrally formed projections adjacent to its lower end, said spring-actuated presser member being provided with an opening corresponding in shape to the cross sectional shape of said post at said projections, said spring-actuated presser member being adapted to be passed over said portion of said post bearing said projections and rotated a portion of a revolution to lock said spring actuated presser member on said post.

1,477,756. ARTIFICIAL FISH BAIT. CHARLES HEDDON and WILLIAM A. STOLLEY, Dowagiac, Mich. Filed Aug. 16, 1922. Serial No. 582,107. 12 Claims. (Cl. 43—46.)

1. An artificial bait having a bouyant body comprising a plurality of sections flexibly connected together to permit a wide lateral angular movement between adjacent sections, the forward section being relatively long and having at its forward end a relatively long and wide down-slanting front extending below the axis of the bait body and presenting a large frontal surface to the water and inducing the bait to dive when drawn through the water, a line-tie on said down-slanting front below the axial line of the body, said forward section being

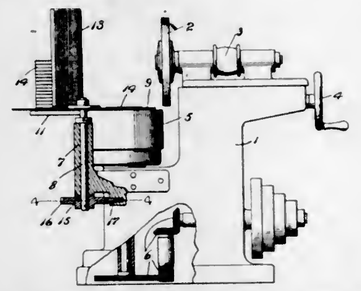


constructed to be the controlling section and to have a pronounced sidewise or swimming movement and forcibly to cause the other sections to follow and the entire bait to travel in a pronounced sinuous path as the bait is drawn through the water, and hooks secured to the body.

1,477,757. ZEOLITE AND PROCESS OF PREPARING SAME. WALTER J. HUGHES and ABRAHAM S. BEHRMAN, Chicago, Ill., assignors to International Filter Co., Chicago, Ill., a Corporation of Illinois. Filed May 21, 1920. Serial No. 383,214. 14 Claims. (Cl. 23—13.)

1. The process of preparing a base exchange material which comprises mixing alkali and clayey soil having or capable of acquiring base exchange properties and baking the mixture to harden the same.

1,477,758. ATTACHMENT FOR PISTON-RING-GRINDING MACHINES. CHARLES E. JOHNSON, Muskegon, Mich. Filed Dec. 24, 1919, Serial No. 347,167. Renewed Apr. 17, 1922. Serial No. 553,933. 3 Claims. (Cl. 51—67.)



1. In combination, a support, a chuck having a horizontal upper face, means for mounting said chuck to turn about a vertical axis, a plate provided with a plurality of ring receiving openings mounted to turn about a vertical axis, said plate extending over the face of the chuck, means for supporting a column of rings one over the other whereby the lowermost of said rings may be received in an opening in the plate, and means for yieldingly stopping the plate in any one of a plurality of positions in any of which positions one of the openings in the plate is located to receive the lowermost of the rings in said column of rings and another of said openings in the plate is located directly over the upper face of the chuck, substantially as described.

1,477,759. NECKTIE FASTENER. LAWRENCE W. KINO, Kansas City, Mo. Filed July 14, 1921. Serial No. 484,593. 2 Claims. (Cl. 24—226.)

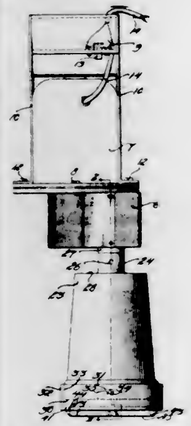
1. In a neck tie fastener, a fastener member formed of sheet metal and provided with a hole, an intermediate member pivotally connected in said hole and provided with an engaging hole, a second fastener member

formed of sheet metal and provided with a hook to engage said engaging hole, each of said fastener members provided with flanges to clamp the respective intermedi-



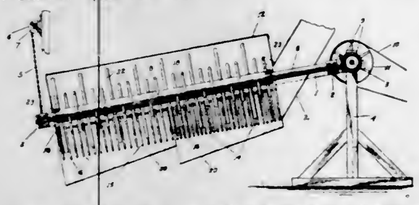
ate ends of a two piece four-in-hand tie, and prongs on said flanges so positioned as to embed in the tie when the flanges are closed thereon.

1,477,760. DISPENSING DEVICE. WILLIAM KLINE, Philadelphia, Pa. Filed Oct. 18, 1921. Serial No. 508,635. 9 Claims. (Cl. 226—19.)



1. A device of the character described including a rotatable receptacle; and conveyor means attached to said receptacle, said conveyor means including a detachable ring with conveyor blades extending across the ring; substantially as described.

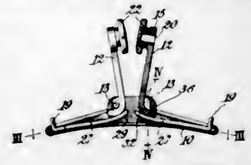
1,477,761. ALMOND HULLER. LAURENCE L. MILLER, Ripon, Calif. Filed Nov. 11, 1922. Serial No. 600,415. 7 Claims. (Cl. 146—11.)



1. An almond huller comprising a drum, a shaft projecting therethrough and having beater members thereon, means for adjusting the angle of setting of the drum and shaft as a unit, and independent means for adjusting the concentric setting of the drum relative to the shaft.

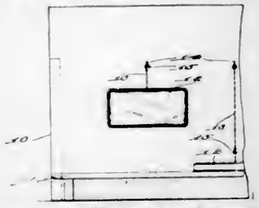
1,477,762. COLLAR CLASP. HERMIE CLARENCE NEGGESMITH, New York, N. Y. Filed Apr. 15, 1921. Serial No. 461,488. 1 Claim. (Cl. 24—81.)

A collar clasp comprising a bar, a pair of spring pressed arms hinged to said bar at their adjacent ends, and means on said bar and arms for gripping fabric, said means comprising pins projecting from said bar, and ornaments at the ends of said arms, and a tubular intermediate portion between said ornaments and said arms, adapted to be expanded against parts of said arms and of said ornaments to fasten said ornaments on said



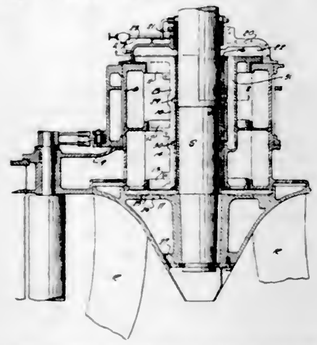
arms, said tubular intermediate portions, in the closed position of said arms, fitting over said pins, and constituting sockets for said pins.

1,477,763. KNEELING PAD. JOHN O'CONNELL, Allston, Mass. Filed Apr. 13, 1922. Serial No. 552,064. 1 Claim. (Cl. 155—166.)



The combination with a pew and kneeling bench associated therewith, of a series of individual pads for application to said bench, each having one end of a chain engaged therewith, the other end of such chain being secured to the back of the pew at a substantial elevation, and a hook borne by a lower portion of the chain adapted to engage a support at the back of the pew for holding the pad suspended at will.

1,477,764. SHAFT BEARING FOR HYDRAULIC MACHINES. JOHN OVEEN, Jr., Philadelphia, Pa., assignor to William Cramp & Sons Ship and Engine Building Company, a Corporation of Pennsylvania. Filed May 13, 1921, Serial No. 469,361. Renewed Aug. 20, 1923. 14 Claims. (Cl. 64—56.)

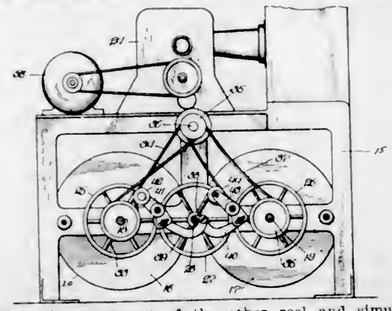


1. A bearing for hydraulic machines comprising longitudinal bearing strips and means for admitting water to said strips at a plurality of points in the length of said bearing.

1,477,765. WINDING APPARATUS. CHRISTEN J. PETERSON, Chicago, Ill. Filed Nov. 9, 1921. Serial No. 513,990. 20 Claims. (Cl. 88—18.7.)

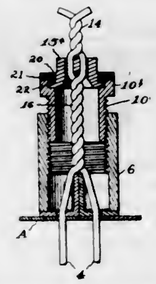
1. In an apparatus of the character set forth, the combination of two reels for storing an endless strip or film, and means whereby the rotation of the winding

reel will be reversed by the tension on one portion of the film and such reversal will actuate means for re-



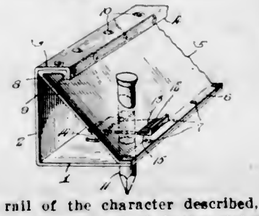
versing the movement of the other reel and simultaneously bring the film in winding relation with the other reel.

1,477,766. TIE-MEMBER-FASTENING DEVICE. OSCAR B. PULIS, Milwaukee, Wis., assignor to Metal Forms Corporation, Milwaukee, Wis., a Corporation. Filed Aug. 19, 1921. Serial No. 493,606. 5 Claims. (Cl. 140—119.)



1. A tie fastening device of the character described, including a foot member having an opening therein through which the ends of the tie wire are passed and having the base thereof constructed for a detachable and interlocking engagement with the member against which it is placed, and a twisting head threaded in the opening of the foot member and having a wall which is apertured to receive the ends of the tie wire preparatory to connecting the same with an initial twist, the inner end of the twisting head being received within the opening of the foot member while the outer end thereof has a polygonal portion adapted to be engaged by a separate tool for forcibly rotating the head.

1,477,767. ROAD RAIL. OSCAR B. PULIS, Milwaukee, Wis., assignor to Metal Forms Corporation, Milwaukee, Wis., a Corporation. Filed Feb. 15, 1922. Serial No. 536,705. 15 Claims. (Cl. 25—118.)



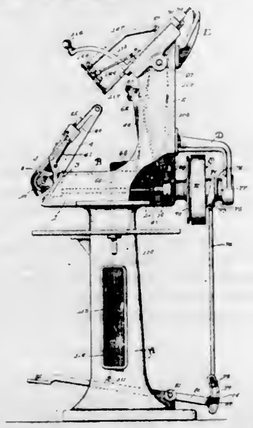
12. A road rail of the character described, including a tubular body portion formed of sheet metal and having a horizontal base and inclined brace member arranged above the base, a vertically disposed supporting stake extending loosely through the base and inclined brace member, a keeper on the base, and a wedge member passing through a side opening in the rail and engaging the keeper so that it is operable from the exterior of the rail and is adapted to engage the stake to lock the rail in position thereon.

1,477,768. WOOD-HEEL-NAILING MACHINE. FRED A. REARDON, Bridgeport, Conn., assignor to Hamel Shoe Machinery Company, Bridgeport, Conn., a Corporation of Massachusetts. Filed Oct. 16, 1920. Serial No. 417,338. 10 Claims. (Cl. 1—32.)



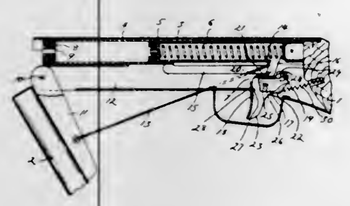
1. In a machine of the class described, a heel last member having a nail tube, co-operating clamping members between which and said last member the heel and sole of a shoe may be clamped in assembled relation by relative movement of said members, and means acting on relative movement of said members to clamping position, to position a nail in said nail tube.

1,477,769. COUNTER-TURNING MACHINE. FRED A. REARDON, Bridgeport, Conn., assignor to Hamel Shoe Machinery Company, Bridgeport, Conn., a Corporation of Massachusetts. Filed Oct. 25, 1920. Serial No. 419,190. 13 Claims. (Cl. 12—57.)



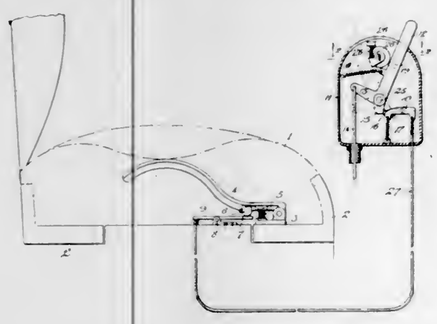
1. In a turning machine, a horn over which the sole of a shoe to be turned is bent, an endless sole engaging element carried by said horn and movable to move said sole, and a supplemental shoe moving element engageable with said endless element.

1,477,770. AIR GUN. ERNEST S. ROE, Plymouth, Mich., assignor to Markham Air Rifle Company, Plymouth, Mich., a Corporation of Michigan. Filed Feb. 6, 1923. Serial No. 617,317. 16 Claims. (Cl. 124—10.)



1. In a gun, the combination with discharging mechanism, of a trigger for controlling said discharging mechanism movable to cocked position, means for holding said discharging mechanism from discharge when said trigger is in cocked position, and means for locking said discharging mechanism from accidental discharge when said trigger is in cocked position, said locking means being independent for its release upon movement of said trigger.

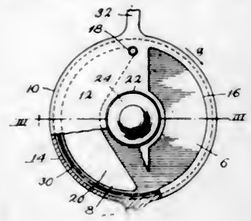
1,477,771. AUTOMATIC AUTOMOBILE LOCK. HAROLD ROWNTREE, Kenilworth, Ill., assignor to National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed Mar. 22, 1919. Serial No. 284,408. 15 Claims. (Cl. 180—82.)



1. In an automatic lock control device for automobiles, the combination with lock-actuating connections, of an operating member therefor mounted to oscillate between two extreme positions, means normally tending to move said member to one of said positions for actuating said connections to locking position, a plurality of projections on said member, a pivoted member mounted to engage one of said projections for holding said member in lock-restraining position, and means for engaging another of said projections for holding said member in lock-actuating position.

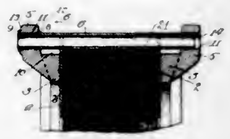
1,477,772. CONTAINER CAP. EMMETT P. RYBURG, Kansas City, Mo., assignor of one-half to Adolph Lotz, jr., Eudora, Kans. Filed Sept. 23, 1922. Serial No. 590,155. 4 Claims. (Cl. 220—24.)

1. In a device of the character described, a tubular member adapted to be connected to a container and provided with an upper plate having an opening therein, a second plate bearing against the underside of said upper plate and adapted to open and close the opening therein, a third plate arranged on top of the upper plate to co-



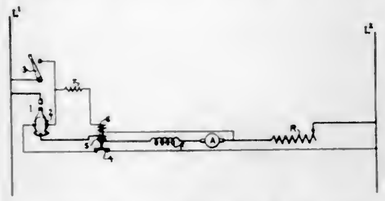
act with said second plate in opening and closing the opening in said upper plate, and means connecting the second and third plates to cause them to operate in unison.

1,477,773. DYNAMO-ELECTRIC STATOR. THEODOR SCHOU and RICHARD L. BEHRENS, Mansfield, Ohio, assignors to The Ideal Electric & Manufacturing Co., Mansfield, Ohio, a Corporation of Ohio. Filed July 14, 1920, Serial No. 396,082. Renewed May 10, 1923. 3 Claims. (Cl. 171—252.)



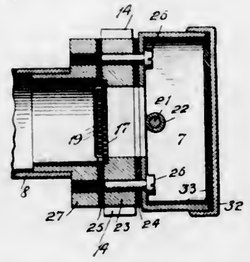
1. In a dynamo-electric machine, a stator comprising a box type of frame, a laminated core held thereby, a pair of retainer rings for supporting the laminations, and wedging means for locking said parts together, said frame including a series of transverse inwardly disposed ribs to support the core and rings, each rib being provided near one end with a stop shoulder to hold one ring and the core in a definite location, and a cross groove for said wedging means near the other end to secure the core and retaining rings as one unit, said rings having radially outstanding lugs disposed between the said ribs, and a series of core registering pins disposed in slots in said core in nontension condition and having their ends supported in said lugs, which serve merely to secure said pins against radial movement.

1,477,774. MOTOR CONTROLLER. EDWIN W. SEEGER, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 21, 1921. Serial No. 438,820. 5 Claims. (Cl. 172—179.)



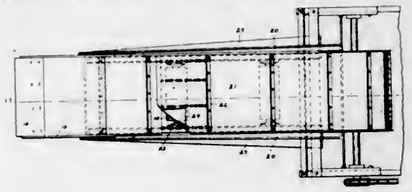
2. In combination, an electric motor and control means therefor including overload protecting means subject to control by the value of the motor current and the counter-voltage of the motor and having means insuring against automatic resetting thereof after responding to an overload.

1,477,775. PHONOGRAPH. GEORGE SEIFFERT, New York, N. Y., assignor to Electone Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 9, 1919, Serial No. 343,474. Renewed Nov. 2, 1923. 6 Claims. (Cl. 274—6.)



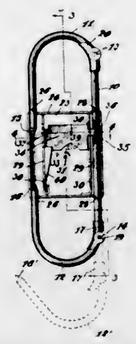
1. A sound box having an air pipe at its top and a tone arm at its bottom, a German silver grating rigidly secured to the sound box and an aluminum grating adjacent to the other grating and mounted so as to vibrate according to a record.

1,477,776. CONVEYER DEVICE. ROBERT SHEDENHELM, Grinnell, Iowa. Filed Sept. 27, 1921. Serial No. 503,644. 3 Claims. (Cl. 37—8.)



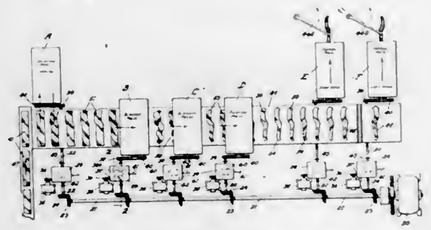
1. In a device of the class described, the combination of a supporting frame, rollers therein, a conveyer belt passed around said rollers, stationary side boards supported by the frame, their sides being slightly spaced apart from the sides of the conveyer at the receiving end thereof and slightly divergent from each other toward the delivery end of the conveyer, for the purposes stated.

1,477,777. LOCK. FRANK P. SHEK, Brooklyn, N. Y. Filed Nov. 29, 1922. Serial No. 603,974. 3 Claims. (Cl. 70—105.)



1. In a lock, in combination, a shackle comprising a straight rod, a bent rod hingedly attached to each end thereof, the end portions of the hinged rods being capable of placement in a plane parallel to the straight rods with their extremities spaced from each other, a container capable of slidable movement upon the shackle to bridge the opening between the bent rod extremities and means for locking the container in its bridged position, the container being capable of slidable movement to release each bent rod from retention therein when in unlocked condition.

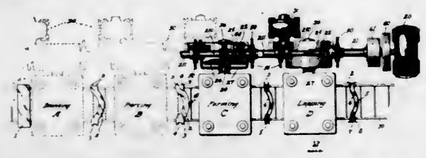
1,477,778. PROCESS AND APPARATUS FOR MAKING FLANGED BARS. REUBEN STANLEY SMITH, Milwaukee, Wis., assignor, by mesne assignments, to First Wisconsin Trust Company, a Corporation of New York. Filed Oct. 30, 1920. Serial No. 420,691. 36 Claims. (Cl. 153—2.)



1. An apparatus for producing curved flanged side bars for automobile frames from sheet metal strips, comprising means for bending the strips in the direction of their width to conform such strips to the irregular contour of the side bar blanks, means for removing the marginal portions of the strips lying beyond the contour lines of the blanks, means for piercing the said blanks, and means for turning flanges upon the blanks, in combination with driving mechanism actuating all of the said means through a succession of operations distributed through and performed in a time cycle, whereby an excessive peak load upon the driving mechanism is avoided.

18. The method of producing mated pairs of flanged side bars for automobile frames, which consists in feeding a succession of metal strips along a single line of travel, cutting contoured blanks from the said strips and perforating the said blanks while in such line of travel, diverting the said blanks in alternation from said line of travel, and forming flanges thereon while so diverted.

1,477,779. PROCESS AND APPARATUS FOR MAKING FLANGED CROSSBARS FOR AUTOMOBILE FRAMES. REUBEN STANLEY SMITH, Milwaukee, Wis., assignor, by mesne assignments, to First Wisconsin Trust Company, a Corporation of New York. Filed Oct. 30, 1920. Serial No. 420,692. 13 Claims. (Cl. 153—2.)

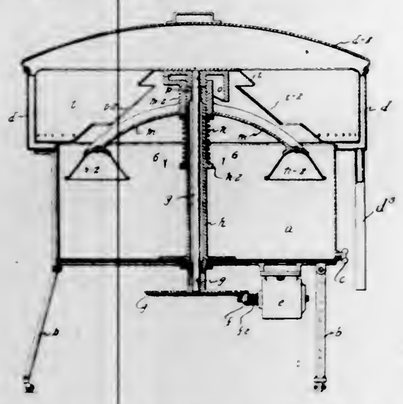


1. An apparatus for producing flanged cross bars for automobile frames from sheet metal, comprising means for cutting a contoured blank from the said sheet, means for piercing the said blank, means for turning the side margins of the blank to form reinforcing flanges upon the side bar, means for bending the projecting ends of the flanged bar to form fastening ears, and devices for conveying the cross bar forming elements through the apparatus, in combination with driving mechanism actuating all of said means through a succession of operation distributed through the time cycle of operation of the apparatus, whereby an excessive peak load upon the driving mechanism is avoided.

9. The method of producing flanged cross bars for automobile frames, which consists in feeding a succession of element forming material along a line of travel, blank-

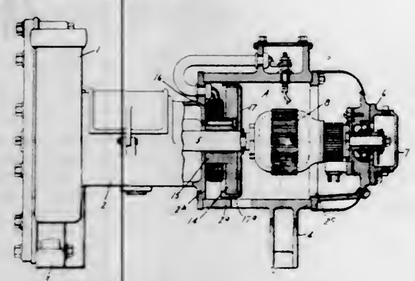
ing and piercing such elements, turning side flanges thereon and bending the projecting ends thereof to form fastening ears, all in a series of operations performed progressively upon the advancing elements, in a subdivided time cycle in which the progressive operations are apportioned and an excessive peak load upon the driving means is avoided.

1,477,780. WASHING MACHINE. CHARLES F. STAPLES, Detroit, Mich. Filed June 4, 1921. Serial No. 474,906. 4 Claims. (Cl. 68—19.)



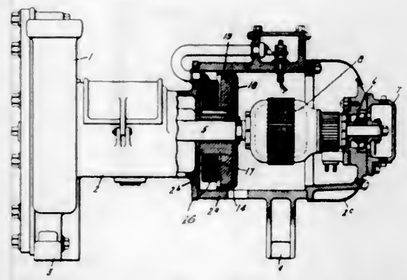
3. In a washing machine, in combination, a cylindrical vat having an upper portion of a diameter enlarged over the lower portion, a drive shaft extending upwardly through the bottom of the vat, a perforate drying basket positioned in the upper portion of the vat and mounted upon the drive shaft for rotation therewith said drying basket being of a greater diameter than the diameter of the lower portion of the vat, a rotatable reciprocating washing element positioned in the lower portion of the vat and engaging said drying basket to be reciprocated as the basket is rotated, and means adapted to engage said washing element to rotate the same as it is reciprocated.

1,477,781. REGULATOR FOR ELECTRIC GENERATORS. REGINALD G. STANDERWICK, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed July 29, 1915. Serial No. 42,547. 6 Claims. (Cl. 290—40.)



2. In combination, an electric generator, a supply circuit connected thereto, a variable load connected to said supply circuit, and a magnetic drag for the generator comprising a winding connected across the supply circuit and in shunt to the generator for maintaining substantially constant voltage on said supply circuit.

1,477,782. REGULATOR FOR ELECTRIC GENERATORS. CHARLES P. STEINMETZ, Schenectady, N. Y., and REGINALD G. STANDERWICK, Lynn, Mass., assignors to General Electric Company, a Corporation of New York. Filed July 29, 1915. Serial No. 42,548. 14 Claims. (Cl. 290—40.)



2. In a system of control, an electric generator, a load circuit connected thereto, and means for maintaining the voltage of said generator substantially constant comprising an electromagnetically operated brake for the generator under the joint control of the generator voltage and of the load current.

1,477,783. FILING TRAY. FREDERICK L. G. STRAUBEL, Green Bay, Wis. Filed Feb. 10, 1923. Serial No. 618,190. 9 Claims. (Cl. 129—16.)

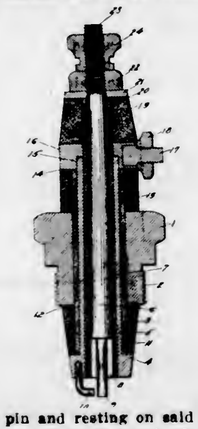


1. The combination with a drawer, of a card tray having each end thereof equipped with an outwardly directed flange adapted to seat on a wall of the drawer, one of the said flanges and the drawer wall engaged thereby being arranged to afford a rocking movement of the tray about the wall portion engaged thereby, the opposite end of the tray being spaced from the adjacent wall below the flange engaging the latter so as to permit the said rocking movement.

9. A forward end member for a filing tray, comprising in rigid formation an end piece sloping forwardly upward from the bottom of the tray, a forwardly directed projection at the top of the end piece, and a shoulder adjacent to the said top and accessible by reaching behind the said top, the shouldr affording a fingerhold for lifting that end of the tray.

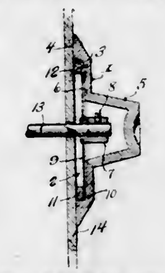
1,477,784. SPARK PLUG. MAURICE P. SULLIVAN, Newark, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed May 20, 1920. Serial No. 382,787. 2 Claims. (Cl. 123—169.)

1. In a spark plug, a one piece shell adapted to be screwed into an engine cylinder, said shell carrying a tube shaped insulator within its central opening and a ring of insulating material over the ends of the tube and immediately adjacent both ends of the shell, a metallic electrode sleeve within said tube insulator and having a head for engaging the lower of said ring insulators and a sparking terminal fastened to the head, said sleeve also having a tapered hole passing therethrough, a tapered central electrode pin fitted within the tapered hole but insulated from said sleeve and having a sparking terminal, spaced away from said pin insulator, a terminal connecting ring seated on the upper of said insulating rings and in annular engagement with said metallic sleeve, an insulator positioned



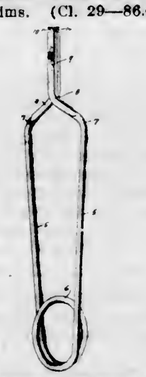
over the central pin and resting on said connecting ring and means engaging the outer end of the central pin to draw and hold together all of said parts.

1,477,785. FLEXIBLE DIAL MOUNTING. MARIAN F. SZUKALSKI, Jr., Milwaukee, Wis. Filed June 25, 1923. Serial No. 647,647. 5 Claims. (Cl. 74—33.)



2. A dial for radio apparatus comprising a disk like member having a hollow central portion, a hub located within said central portion and resilient means connecting said hub and said dial.

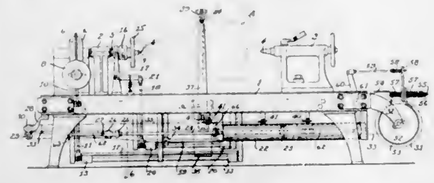
1,477,786. PISTON-RING-EXPANDING TOOL. VINCENT C. TILLIER, Flint, Mich. Filed Feb. 15, 1923. Serial No. 619,209. 3 Claims. (Cl. 29—86.4.)



1. A piston ring expander, consisting of a single piece of spring metal bent to form a pair of jaws connected together at one end by a spring coil and crossing each

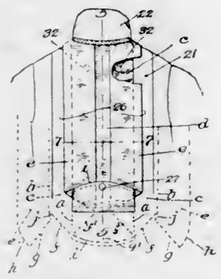
other intermediate the coil and the opposite end of the jaws and having overlapping free ends the tips of which are provided on opposite faces to engage the ends of a piston ring.

1,477,787. ARMATURE-BANDING MACHINE. BENJAMIN W. TODD, Sherman, Calif. Filed Aug. 18, 1921. Serial No. 493,488. 4 Claims. (Cl. 242—8.)



1. A banding machine comprising means for rotating the object to be banded; a cylinder; a piston operable therein by fluid under pressure; a rod connected with and moved by said piston; a pair of pulleys carried by said rod; a second pair of pulleys mounted upon a fixed axis and aligned with the first pair, said pulleys being adapted to receive a double bight of the banding material; and means controlled by the movement of said piston for feeding the banding material to said pulleys.

1,477,788. RAIN AND STORM COAT. FRANK E. TONIUTTI, Forest Park, Ill. Filed Aug. 10, 1922. Serial No. 580,877. 1 Claim. (Cl. 2—86.)

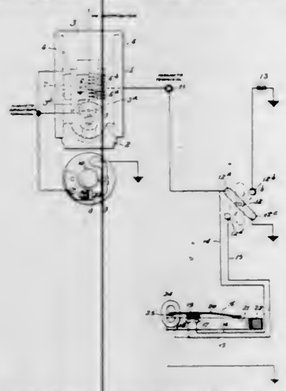


A garment comprising a coat portion having a belt, and a hood portion secured to said coat portion at the back, behind its collar, said hood portion having a lengthwise extending box plait, turned up at its lower end, with the plaited portion secured together at said upturned portion, the lower end of the hood portion being concealed behind said belt and detachably secured thereto.

1,477,789. MAGNETO IGNITION SYSTEM. CHARLES H. TOWER, Cleveland, Ohio, assignor to The Teagle Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 11, 1920. Serial No. 365,080. 2 Claims. (Cl. 290—41.)

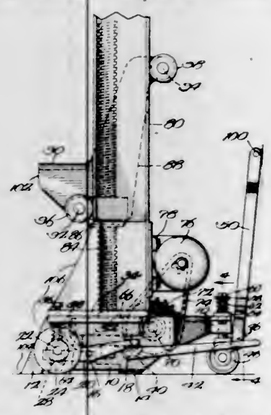
1. In an ignition system, the combination of an ignition current generator having permanent field magnets, an auxiliary source of current adapted to supply unidirectional current, manual means for connecting the generating winding of the generator to said auxiliary source of current, and automatic switch devices

having means for yieldingly holding the switch open and electromagnetic means energized by current from



said auxiliary source and adapted only when said current flows in a predetermined direction to close said switch.

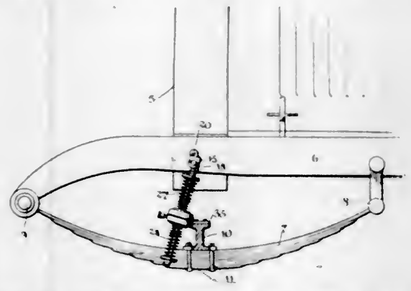
1,477,790. PORTABLE JACK. JOHN S. TOWNSEND, Harvey, Ill., assignor to Whiting Corporation, Harvey, Ill., a Corporation of Illinois. Filed Aug. 8, 1921. Serial No. 490,506. 6 Claims. (Cl. 254—103.)



1. In mechanism of the class described, a trunk frame, a vertically disposed lifting screw rising from the frame, power means driving said screw, a load lifting foot, propellable by said screw having its end extending to a vertical line at one edge of the frame, a pair of feet on the bottom of the truck frame, across said edge of the frame and a bracing member starting at said feet and extending in a sharply angular line 106 over to the lifting screw, for the purposes set forth.

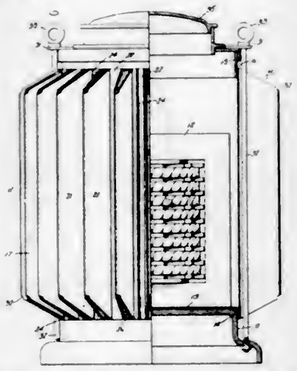
1,477,791. SHOCK ABSORBER. ERNEST A. TRAVER, Thornton, Calif. Filed Feb. 15, 1922. Serial No. 536,701. 1 Claim. (Cl. 267—28.)

A shock absorber for motor vehicles comprising a rod having its upper portion formed with an enlargement including a pair of sections the opposed faces of which are formed with semi-spherical recesses defining a spherical socket, a bracket rigidly secured to the frame of the vehicle and having a lateral shank provided with a spherical head received in said spherical socket, whereby a universal connection is provided between the rod and the frame, an abutment providing spring seats and slidably mounted on the intermediate portion of said rod, said abutment having a spherical outer surface, coil springs mounted on said rod on opposite sides of said abutment and engaging at their inner ends the seats in the abutment, caps mounted on the end portions of said rod and engaged with the outer ends of said springs, adjusting nuts threaded on said rod and engaging said



caps for varying the tension of said springs, said coil springs decreasing in strength toward their inner ends, a second bracket rigidly secured to the axle of the vehicle and offset therefrom and having an annulus provided with a spherical socket receiving said abutment, whereby a universal connection is provided between the annulus and the abutment.

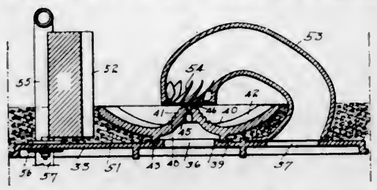
1,477,792. CASING FOR ELECTRICAL APPARATUS. ROBERT E. WAGNER, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Sept. 28, 1920. Serial No. 413,429. 10 Claims. (Cl. 113—116.)



1. A sheet metal casing comprising top and bottom members, corrugated walls secured therebetween, said walls being composed of members bent on parallel longitudinal lines to form corrugations with spaced sides, and triangular end pieces with upturned edges inserted between the spaced sides of the corrugations, said upturned edges being cut back from the tips of said triangular end pieces and the edges of said members being cut back at the tips of said triangular end pieces to avoid pockets at the crests of the corrugations.

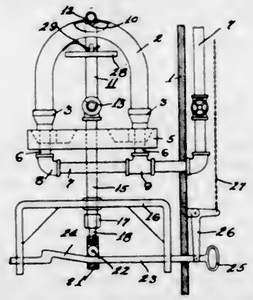
1,477,793. LIQUID-FUEL BURNER FOR HEATERS. CHARLES A. WATROUS, Des Moines, Iowa. Filed Apr. 17, 1922. Serial No. 553,939. 21 Claims. (Cl. 158—91.)

1. In a liquid fuel burning furnace, the combination of a base designed to be supported within a furnace, a combustion bowl mounted upon the base and formed with a substantially cone-shaped upwardly extended projection at its central portion having a passageway for oil extended vertically through it to its top, the sides of the combustion bowl being extended outwardly and then upwardly, and the said cone-shaped projection be-



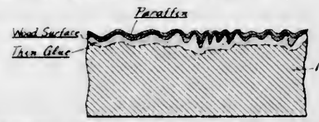
ing provided near its top with a circular horizontally arranged groove, and also being provided near its bottom with a circular horizontally arranged groove and an overflow pipe communicating with the bowl below the latter groove.

1,477,794. OIL BURNER. CHARLES F. WHEELER, Bloomington, Ill., assignor to B. M. Kuhn, Bloomington, Ill. Filed May 15, 1922. Serial No. 560,887. 3 Claims. (Cl. 158—53.)



1. In an oil burner, a feed pipe, a U-shaped vaporizing pipe coupled at its ends to said feed pipe, an oil pan attached to said vaporizing pipe, a circular gas receiving pipe transversely encircling said vaporizing pipe and integrally united therewith, said pipes having communicating ports, a conical port in said gas pipe, and a needle valve adjustable in said port.

1,477,795. SHIPPING CONTAINER FOR LIQUIDS AND METHOD OF MAKING SAME. LESTER MARIUS WHITE, Perth Amboy, N. J., assignor to Perth Amboy Chemical Works, New York, N. Y., a Corporation of New Jersey. Filed Nov. 26, 1920. Serial No. 426,399. 15 Claims. (Cl. 91—68.)



1. A wooden container having a coating of glue overlaid with paraffin.

10. The process of producing an insoluble glue coating which consists in impregnating wood with relatively thin glue, applying a coating of heavier glue, removing excess of the latter coating, applying paraffin, and treating with formaldehyde.

14. A container having a coating of glue overlaid with a coating of a glue solvent retarding medium permeable to formaldehyde.

15. The process of rendering a glue coating insoluble which consists in tanning it through a coating pervious to the tanning agent but impervious to a glue solvent.

1,477,796. ENGINE-TESTING PUMP. ALBERT L. ZIMMERMAN, Valparaiso, Ind. Filed Jan. 7, 1920. Serial No. 350,000½. 9 Claims. (Cl. 75—51.)

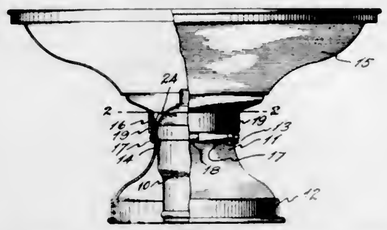


1. In engine testers, positive attachable and detachable pressure producing means such as a pump, etc., pressure indicating means comprising maximum and variable indicators operatively connected to said pump, and interchangeable adapters serving to connect the pump with various engine cylinders.

1,477,797. WEAR-RESISTING BODY. NATHAN H. ADAMS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 30, 1919. Serial No. 348,413. 2 Claims. (Cl. 75—1.)

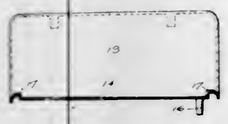
1. A bearing comprising an intimate mixture of tungsten and copper, consolidated to form a machinable, pressure-resisting composite material, capable of operation under high pressure and at high temperature without deterioration.

1,477,798. HOLDER FOR ELECTRIC-LIGHT FIXTURES. PASQUALE ALTAMURA, New York, N. Y., assignor to Simplex Metal Spinning & Stamping Co., Inc., New York, N. Y. Filed Oct. 20, 1922. Serial No. 595,817. 1 Claim. (Cl. 240—78.)



An electric light fixture comprising a canopy, a reduced neck at the lower end of said canopy, an inwardly extending annular bead intermediate the ends of the neck, a multiplicity of yieldable fingers depending from the inwardly extending bead, a globe holder, a reduced neck at the upper end of the globe holder, said neck being adapted to snugly fit around a lamp socket, an outwardly extending annular bead at the lower end of the neck of the globe holder, an inwardly offset shoulder at the lower end of the last named bead, said shoulder and the first named bead cooperating in rigidly supporting the lamp socket, the yieldable fingers being adapted to grip the last named bead when the device is assembled, and a clamp ring adapted to embrace the neck on the canopy to hold the fingers in clamped position.

1,477,799. DRAIN SHELF. DENNIS M. ANDERSON, Columbus, Ohio. Filed Oct. 16, 1922. Serial No. 594,851. 2 Claims. (Cl. 141—11.)



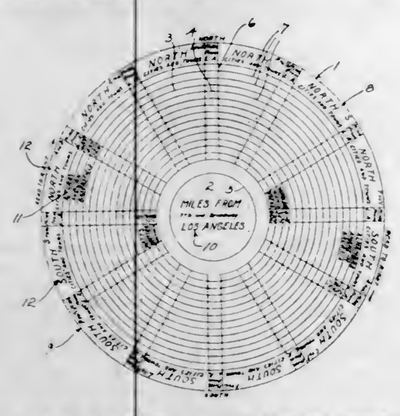
1. A glassware and dish drain shelf having a back plate and a base plate the latter sloping from one end to the other and provided with a downwardly opening drain adjacent to its lower end, a wall bracket having pockets therein, and lugs depending from the upper portion of the back plate for removable disposition in said pockets.

1,477,800. CONNECTING JOINT. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Apr. 10, 1919. Serial No. 289,093. 22 Claims. (Cl. 173—318.)



19. An insulator having a connecting member surrounding a portion of an extremity thereof, spaced projections secured to the surface of said insulator contiguous to said connecting member, means for securing said connecting member to the projections on said surface to form a yielding joint to permit relative movement between said insulator and said connecting member, the points of connection between said projecting members and said securing means being spaced progressively varying distances from the bases of said projecting members to permit of progressively increasing amounts of movement between said insulator and said connecting member at different points in the joint between said members.

1,477,801. MILEAGE CHART. FRANK WILLIAM BACON, Los Angeles, Calif. Filed July 20, 1922. Serial No. 576,231. 2 Claims. (Cl. 235—88.)



1. In a mileage chart, a member having a central portion containing the name of a main station, and radial portions containing in radial columns the names of other stations and containing characters representing their distances from the main station.

1,477,802. OIL-WELL HEATER. ROBERT C. BECK, Brooklyn, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 28, 1921. Serial No. 448,478. 14 Claims. (Cl. 219—23.)



1. An oil well heater comprising a plurality of electric heaters arranged in groups, protective casings therefor, and means whereby any group of heaters may be removed without interfering with the other groups of heaters.

1,477,803. THIOCARBANILIDE DERIVATIVE. CLAYTON W. BEDFORD and ROBERT L. SIBLEY, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Original application filed Aug. 12, 1918, Serial No. 249,580. Divided and this application filed Nov. 24, 1919. Serial No. 340,252. 9 Claims. (Cl. 260—125.)

1. The thiourea derivatives constituting the product formed by the simultaneous reaction of carbon bisulphide and hydrogen sulphide on a paranitroso body.

7. The method of preparing a thiourea derivative which comprises dissolving a paranitroso body in a solvent containing an excess of carbon bisulphide and passing hydrogen sulphide into the solution.

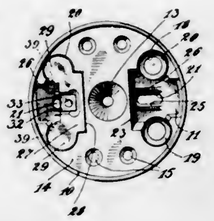
1,477,804. PRODUCTION OF THIOCARBANILIDE. CLAYTON W. BEDFORD and ROBERT L. SIBLEY, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Original application filed Aug. 12, 1918, Serial No. 249,581. Divided and this application filed Nov. 24, 1919. Serial No. 340,253. 4 Claims. (Cl. 260—125.)

1. The method of producing a substituted thio-urea which consists in carrying out the reaction between a primary aromatic amine and carbon bisulphide in the presence of a paranitroso body.

1,477,805. ACCELERATOR FOR THE VULCANIZATION OF CAOUTCHOUC SUBSTANCES. CLAYTON W. BEDFORD, Akron, Ohio, assignor to Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Original application filed Jan. 6, 1917, Serial No. 140,888. Divided and this application filed Nov. 24, 1919. Serial No. 340,261. 9 Claims. (Cl. 260—24.)

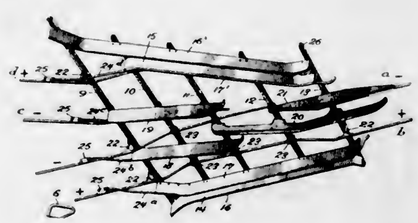
1. The non-gaseous reaction product of a nitrogen accelerator and sulphur.

1,477,806. JUNCTION BOX AND KNOCK-OUT THEREFOR. WILLIAM A. BONNELL, Brooklyn, N. Y. Filed Aug. 18, 1921. Serial No. 493,366. 6 Claims. (Cl. 247—24.)



1. A junction box comprising a body containing paired cable sockets, inclined ribs formed with said body parallel to a tangent to said sockets, a clamp plate having a part slidable on said ribs, knock-out discs at the ends of said plate, said discs being frangible at the junction between the plate and disc, and means for drawing said plate, after the rupture of said discs, downward upon said inclined ribs to grip cables entered in said sockets.

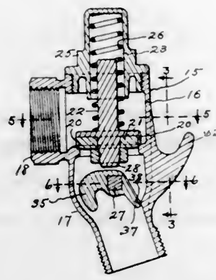
1,477,807. TROLLEY SWITCH. GEORGE W. BOWER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 25, 1922. Serial No. 546,804. 8 Claims. (Cl. 191—38.)



1. An overhead switch for two wire trolley systems comprising a structure for connecting and supporting main line and branch line wires insulatively and in spaced relation, and means carried by said structure for guiding a double contact trolley in its passage thereof.

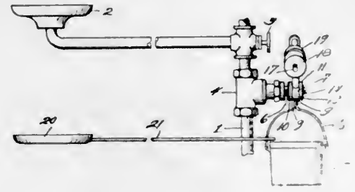
1,477,808. FAUCET. JOSEPH A. COSTELLO, Cleveland, Ohio, assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 10, 1922. Serial No. 551,117. 6 Claims. (Cl. 251—132.)

1. A faucet comprising a casing having an interior chamber which has an inlet and also having a spout arranged to communicate with said chamber, a valve controlling communication between said chamber and the spout, means for actuating the valve from its closed into its open position and comprising a shaft which extends from the exterior of the spout at one side of the spout into and is supported from the spout and at said side of the spout has a terminal portion to be operatively engaged by a shaft-rotating device, a guard-arm arranged externally of the casing and pivoted to the casing at a point spaced from the shaft, the spout having a stuffing-box extending around the shaft between the aforesaid portion of the shaft and the interior of the spout and comprising a gland the outer end portion of which has an interior chamber formed next and around the shaft and extending to the outer extremity of the gland, the outer or free end portion of said arm having



the arrangement and dimensions required to form a shield which, in one position of said arm, is arranged opposite the outer end of the last-mentioned chamber, and means for holding and locking said arm in said position.

1,477,809. AUTOMATIC CLOSING ATTACHMENT FOR VALVES. FERD L. CRAMPTON, Kansas City, Mo. Filed Dec. 12, 1921. Serial No. 521,694. 3 Claims. (Cl. 158—36.



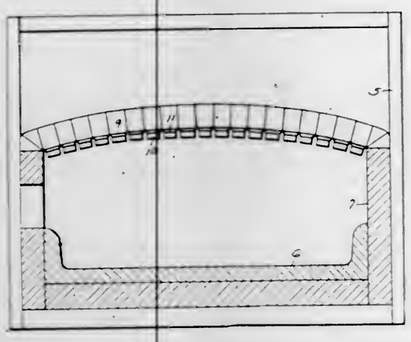
1. In combination with a liquid fuel burner and a valve for controlling the flow of fuel to the burner, of an automatic closing attachment for the valve, comprising a device movable rotatably as the valve is closed or opened, and normally holding the valve in the last-named position, a receptacle exerting force tending to cause the device to rock and close the valve, an adjustable weight for cooperation in holding the valve normally in open position, a slidable weight for cooperating with the first-named weight in holding the valve open and for movement toward and impact against the said device at the receptacle carrying end thereof when the valve is closing, and means for discharging liquid into the receptacle to cause the same to over-balance the said device and weight and start closing movement of the valve.

1,477,810. PROCESS FOR MANUFACTURING NEW AND IMPROVED HIGH REFRACTORY. CHARLES JAMES CRAWFORD, St. Louis, Mo. Filed Aug. 14, 1923. Serial No. 657,459. 19 Claims. (Cl. 106—11.)

1. A silica brick consisting of tridymite bonded with a clay of high alumina content.

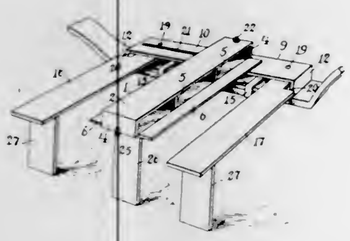
13. The herein described method of manufacturing a fixed volume high refractory substance which consists of burning a silica material in a kiln the atmosphere of which is charged with a gaseous catalyzer formed independently of the material being treated.

1,477,811. METALLURGICAL-FURNACE ROOF. CHARLES JAMES CRAWFORD, St. Louis, Mo. Filed Aug. 14, 1923. Serial No. 657,461. 10 Claims. (Cl. 263—46.)



1. A furnace roof of refractory material of staggered checker work construction.

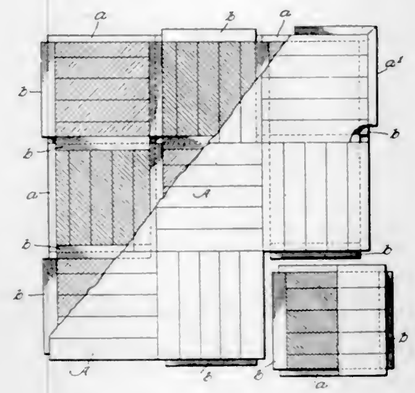
1,477,812. AUTOMOBILE DINING OUTFIT. BURLEIGH N. CROCKETT, Ayer, Mass. Filed Apr. 8, 1922, Serial No. 550,679. Renewed May 9, 1923. 6 Claims. (Cl. 45—31.)



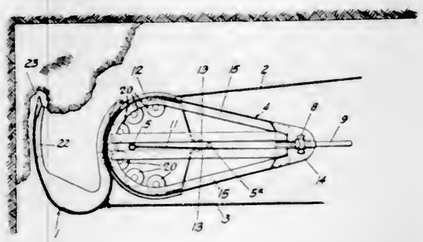
2. A dining set for an automobile having a running board, comprising an elongated table pivotally supported at one end by said running board, an elongated seat pivotally supported at one end by said running board, and movable supports for the free ends of said table and seat, whereby the table and seat can be disposed at right angles to the running board, or swung about and superposed parallel therewith.

1,477,813. PARQUET FLOORING AND WALL PANELING. ERNEST STUART DANIELS, Washington, D. C., and HAROLD PITMAN SCHUCK, East Orange, N. J. Filed Oct. 16, 1923. Serial No. 668,907. 7 Claims. (Cl. 20—75.)

1. A parquet flooring comprising individually formed sections of flooring material interlocked and held together in assembled relation by interlocking longitudinal and transverse tongue and groove connections between the sections; the longitudinal grooves extending along opposite edges of the section at an angle to the tongues; the individual sections being composed of short pieces of boards secured together edge to edge by tongues fitting in registering grooves in the ends of the respective boards; the ends of the tongues terminating flush with the bottoms of the longitudinal grooves.



1,477,814. APPARATUS FOR HANDLING ORE AND THE LIKE. CHARLES E. DAVIS, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 10, 1921. Serial No. 506,711. 3 Claims. (Cl. 37—147.)

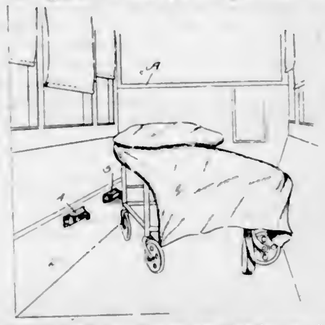


1. In an apparatus of the class described the combination of a guiding frame adapted to be fixed against lateral movement, and having a curved bearing portion, and a draft-operated scraper having a plurality of antifriction rollers mounted on one side thereof and adapted to engage said curved bearing portion.

3. In an apparatus of the class described a bottomless scraper comprising a rear end piece formed of a single casting having a forwardly and downwardly extending rear wall portion, horizontally-curved side walls formed of sheet metal and secured to said casting, and inwardly-extending wearing members secured to the bottom margin of said side walls forwardly of said casting.

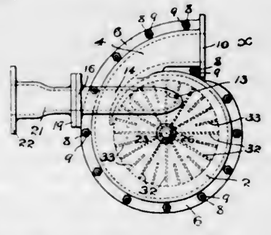
1,477,815. COT-RETAINING DEVICE FOR AMBULANCES. DAVID DENNING, Marlin, Tex. Filed Oct. 26, 1922. Serial No. 597,059. 15 Claims. (Cl. 296—19.)

1. In combination with an ambulance and a cot movable with respect thereto, of means projecting from a side of said ambulance and adapted to automatically lock the cot against lateral and longitudinal movement



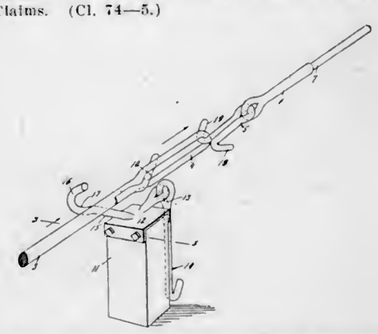
with respect to said ambulance, as the former is moved forward into and along the floor of the latter.

1,477,816. EXHAUST SILENCER. DUDLEY FARRAND, Newark, N. J. Filed May 12, 1920. Serial No. 380,732. Renewed Sept. 14, 1923. 11 Claims. (Cl. 137—160.)



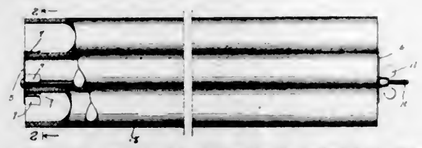
1. An exhaust silencer comprising a chambered-casing having a discharge-opening, an impeller rotatably mounted in said casing, inlet-ports on opposite sides of said casing, conveyor-ducts connected with said casing, each conveyor-duct being in communication with an inlet-port, and means connected with the inlet-openings of said conveyor-ducts for admission of an exhausted medium into said conveyor-ducts for actuating said impeller.

1,477,817. POWER HITCH FOR PUMP CABLES. CLARENCE B. FOSTER, Glendale, Calif., assignor to Union Tool Company, Torrance, Calif., a Corporation of California. Filed Dec. 9, 1922. Serial No. 605,842. 7 Claims. (Cl. 74—5.)



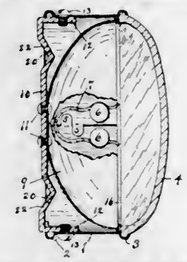
1. In a device of the nature disclosed, a reciprocating power rod, a pull cable, a connecting element detachably connecting the rod and a cable, a stationary support, means carried by the support and movable to position to engage said connecting element and interrupt a return stroke of the cable to permit a disconnecting of the power rod, the rod and connecting element having means subsequently cooperating to cause a shifting of the rod out of re-engaging alignment with the connecting element, and means for supporting the free end of the rod when disconnected.

1,477,818. SHIPPING DEVICE FOR ARTICLES OF CYLINDRICAL SHAPE. PAUL E. GERIAT, Sheboygan, Wis. Filed Sept. 1, 1921. Serial No. 497,497. 1 Claim. (Cl. 206—46.)



A shipping device for articles of cylindrical shape comprising a pair of end brackets, each of said brackets having a plurality of prongs extending therefrom and arranged in concentric circles, the prongs of an inner circle being adapted to hold a plurality of rolls in juxtaposed position, the prongs of the outer circle being adapted to hold other rolls in engagement with the first-named rolls, each of said brackets having a central aperture, a rod adapted to be inserted thru the said apertures, and means for drawing up the brackets into engagement with the ends of the cylinders with the prongs extending into said ends and engaging the walls thereof to hold the cylinders in a compact symmetrical bundle.

1,477,819. LAMP. CHARLES E. GODLEY, Detroit, Mich., assignor to Edmunds and Jones Corporation, Detroit, Mich., a Corporation of New York. Filed Mar. 31, 1923. Serial No. 628,997. 4 Claims. (Cl. 240—7.)



1. In a lamp, the combination of a bar, a cup-shaped reflector attached to the middle portion thereof, a lens to close the open end of the reflector, and a lens ring attached at one end to the lens and at the other to the ends of the bar.

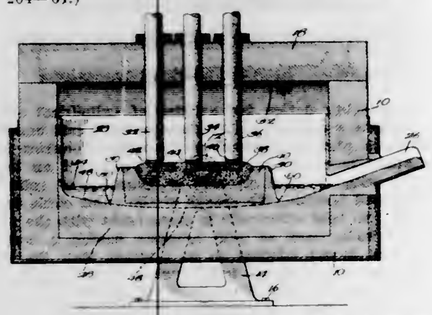
1,477,820. KNIFE SHARPENER. THOMAS T. GRASER, Syracuse, N. Y., assignor to Sure-Cut Sharpener Co., Inc., Syracuse, N. Y., a Corporation of New York. Filed Aug. 13, 1921. Serial No. 491,982. 2 Claims. (Cl. 51—214.)



1. A knife sharpener comprising an abrading disk, a bracket bent up from sheet metal into substantially U-form the sides of the bracket being of triangular shape

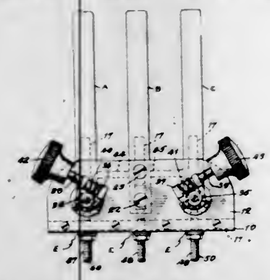
having broad lower edges joining a flat elongated base, said sides contacting the opposite sides of the disk, and means passing through the bracket sides a distance inwardly from the outer apices thereof for securing the disk in position, the outer apices of the triangular sides being deflected outwardly from the opposite sides of the disk to form work guides.

1,477,821. ELECTRIC MELTING FURNACE. ALFRED W. GREGG, Chicago, Ill., assignor to Whiting Corporation, Harvey, Ill., a Corporation of Illinois. Filed July 16, 1921. Serial No. 485,175. 4 Claims. (Cl. 204—64.)



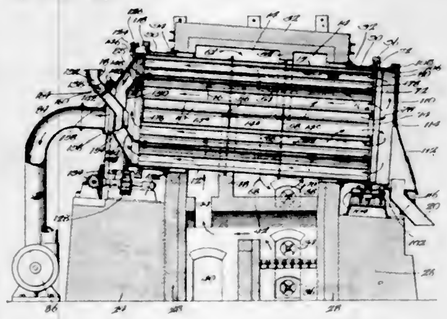
1. In a device of the class described, a furnace chamber enclosing a hearth, sloping continuously downward from the side walls of the chamber toward its center, a central island in the hearth, and means for creating an electric arc on the island without passing electric current through material to be melted on the hearth.

1,477,822. COIL MOUNTING FOR RADIO APPARATUS. ISIDOR GREENWALD, New York, N. Y., assignor to Astorloid Manufacturing Co. Inc., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 10, 1922. Serial No. 580,913. 3 Claims. (Cl. 171—119.)



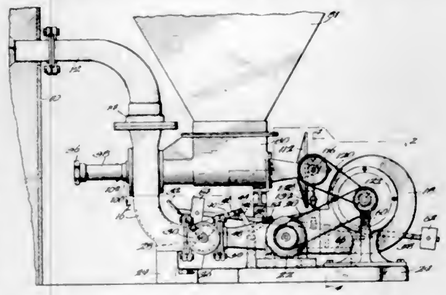
1. A coil mounting as characterized, comprising an insulated base having a bottom wall with two protruding spaced walls, three spaced insulated blocks between the walls of the base, the central block being stationary and the other blocks adapted to be rotatably swung toward and from the stationary block, three conductive posts, one embedded in and protruding upwardly from each of the blocks, three conductive sockets, one embedded in each of the blocks in spaced relation to its post, a pair of binding posts embedded in and projecting from the base, one being connected to the post of the stationary block and the other connected to the socket of the stationary post, two conductive studs journaled in one of the walls of the base and each of the studs leading to the socket of one of the rotatable blocks, two other binding posts embedded in and extending from the base, each being connected to and yieldingly contacting with each of the studs, two conductive shafts journaled in the other wall of the base and each of the shafts leading to the post of one of the rotatable blocks, both of said shafts extending beyond the base, two more binding posts embedded in and projecting from the base, each connected to and yieldingly contacting with each of the shafts, and means on the shaft, manually operative for rotating each shaft separately for rotatably adjusting the rotatable blocks.

1,477,823. ROTARY DRIER. AUBREY J. GRINDLE, Chicago, Ill., assignor to Grindle Fuel Equipment Company, Harvey, Ill., a Corporation of Illinois. Filed Dec. 30, 1921. Serial No. 525,969. 7 Claims. (Cl. 34—6.)



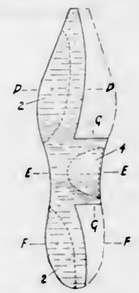
1. In mechanism of the class described, a group of generally horizontal parallel tubular members arranged in a group so that they are spaced one from the other and the group can be rotated as a group about a fixed axis, means for rotating the group about said axis, means supplying material to be dried to the ends of the tubes at one end of the group and for removing said material at the opposite end, means regulating the division of material to be dried between two different tubes of the group, and means passing heated air first in one direction and then in the opposite direction across the outsides of all of the tubes as the group rotates, for the purposes set forth.

1,477,824. POWDERED-MATERIAL-FIRING APPARATUS. AUBREY J. GRINDLE, Chicago, Ill., assignor to Grindle Fuel Equipment Company, Harvey, Ill., a Corporation of Illinois. Filed Feb. 4, 1922. Serial No. 534,241. 3 Claims. (Cl. 302—35.)



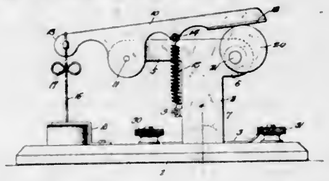
1. In mechanism of the class described, a fuel conduit, a conveyor for delivering pulverized fuel within the conduit, a variable speed driving device for the conveyor including a slidably adjustable element for effecting variations in the rate of speed of the conveyor, means for forcing a current of air through said conduit, a rotary valve adjustable on an axis parallel to the direction of sliding movement of said element to regulate the amount of air passing through said conduit, and a common means for simultaneously effecting adjusting movement of the element and valve in either direction.

1,477,825. WEDGE ATTACHMENT FOR SHOES. GEORGE HEITLER, New York, N. Y. Filed Sept. 9, 1921. Serial No. 499,416. 1 Claim. (Cl. 36—71.)



As a new article of manufacture, a wedge-like attachment for the inside of the soles of boots or shoes, consisting of a piece of leather or other material, generally following the contour of the outside of the sole of said boot or shoe but covering a portion of said sole only, generally being of a heavier cross section at the outside than towards the inside, two wedge-like attachments applied at the outside underneath the front and back portions of said piece of leather or other material, pointing inwardly, and an extension underneath the arch portion of the foot, having a curved convex upper surface and a wedge-like cross section pointing the reverse direction to that of said two wedge-like attachments.

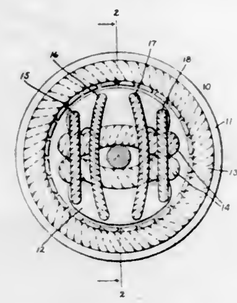
1,477,826. DETECTOR STAND. ROBERT J. HEITZMAN, Union Hill, N. J. Filed June 29, 1922. Serial No. 571,598. 5 Claims. (Cl. 250—31).



1. A detector stand for radio apparatus comprising a base, a bracket normal to the base, a lever of the first class pivoted to said bracket, a cam journalled on the bracket engaging the rear end of said lever, a spring connected with the lever to hold the latter in engagement with the cam, a contact needle of spring wire attached to the forward part of the lever, and a crystal holding spring clip secured to the base below the needle.

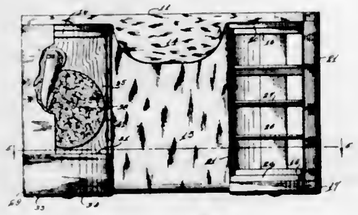
1,477,827. INSTRUMENT FOR TRANSMITTING ANGULAR MOVEMENT. LEE E. HILDEBRAND and DAVID P. THOMSON, Lynn, Mass., assignors to General Electric Company, a Corporation of New York. Filed Dec. 1, 1921. Serial No. 519,160. 3 Claims. (Cl. 172—293.)

1. An instrument for transmitting angular movement comprising a stator member, a cooperating rotor member, poly-circuit armature and single-phase field windings for said members respectively, and a short-circuited electrical conductor at right angles with said field winding so as to be interlinked by magnetic flux at an angle with the field flux, said armature winding being adapted to be connected to the armature winding of a similar instrument, whereby when the rotor of the latter instrument is turned



an auxiliary torque is produced by said short circuited conductor tending to turn its rotor into angular agreement therewith.

1,477,828. COMBINATION PHONOGRAPH CABINET AND CHAIR. LINUS C. HIRT, Des Moines, Iowa. Filed Jan. 11, 1922. Serial No. 528,547. 1 Claim. (Cl. 155—188.)

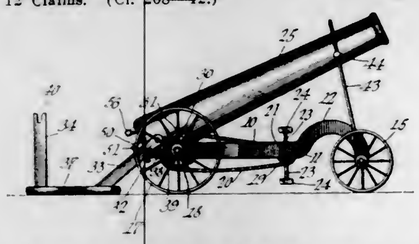


In a device of the class described, the combination of a chair frame, an arm rest at one side of the seat designed to form a cabinet, said arm rest comprising a stationary rear support, a hub secured to the front thereof, a stationary partition member secured to the front of the hub, a circular rim rotatably mounted upon the hub, a stationary circular rim in the front of the arm member, a cylinder fixed in position in the rear of said stationary rim, a rotatable rim surrounding the stationary cylinder, a horizontal partition fixed between the stationary cylinder and the stationary support in front of the rear hub, a screen at the front of the partition and a detachable upholstered member to close the front of the arm rest compartment and a cylindrical cover secured at the front to said rotatable rim and at the rear to said rotatable disk, said cover having an opening therein and so arranged that when rotated to one position it will expose the upper portion and the seat side of the cabinet and when moved to the other position it will cover the cabinet from a point below the top of the seat around the top and outer side of the cabinet, for the purposes stated.

1,477,829. SULPHO COMPOUND AND ITS PRODUCTION. ERNST M. JOHANSEN, Philadelphia, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 25, 1921. Serial No. 439,843. 12 Claims. (Cl. 260—159.)

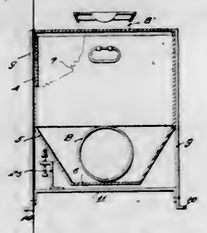
1. The method of producing sulpho-compounds, which comprises sulfonating non-oily crystalline or crystallizable bodies having as their source a high boiling point distillate from destructive distillation of mineral oil.

1,477,830. CHILD'S VEHICLE. WILLIAM KLINGE, Alexandria, Va. Filed Feb. 14, 1920. Serial No. 358,759. 12 Claims. (Cl. 208—42.)



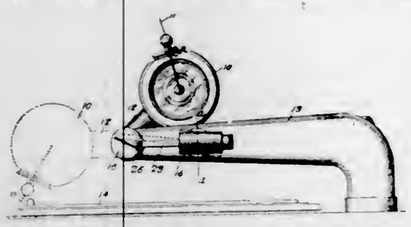
1. A child's vehicle including a wheel supported frame, a body member pivotally secured to the frame, and a seat pivotally secured to frame, said seat positioned to co-operate with the body member to move said body member about its pivot when the seat is moved about its pivot.

1,477,831. CAMP STOVE. FREDERICK W. KOHL, Ripon, Wis., assignor to Kohl Hardware Co., Ripon, Wis. Filed June 15, 1923. Serial No. 645,659. 5 Claims. (Cl. 126—25.)



A stove of the class described having a body portion and supporting legs secured thereto, and means pivotally carried between the supporting legs for securing the stove to a movable element.

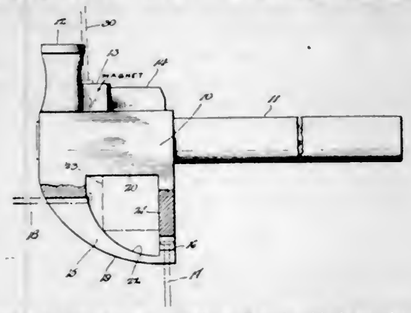
1,477,832. SOUND-REPRODUCING MACHINE. CARL R. KRUEGER, Reno, Nev., assignor to General Electric Company, a Corporation of New York. Filed Apr. 12, 1922. Serial No. 551,880. 1 Claim. (Cl. 274—24.)



In a sound reproducing machine, a record tablet, a sound arm, a sound box pivotally secured to said arm, and means for retarding the movement of the sound box toward the record tablet, said means comprising a dash-pot, said dash-pot provided with a port for increasing the intake of the dash-pot when the sound box approaches the table, to relieve the sound box from the retarding effect of the dash-pot.

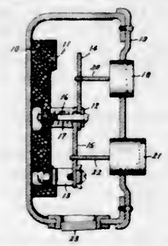
1,477,833. COMBINATION TOOL. CHARLES LEAK, Centerville, Iowa. Filed May 27, 1922. Serial No. 564,135. 1 Claim. (Cl. 7—9.)

In a claw hammer having a head, a wall at the rear end of said head projecting perpendicularly therefrom, claws at the forward end of said head having arcuate forward faces curving rearwardly, said claws joining said wall at the outer end thereof, the opposing faces of said claws forming a V-shaped cut, transverse ledges being



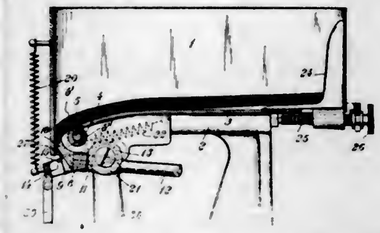
formed at the junction of said wall and said claws, the adjacent faces of said wall, said head, and said claws providing a transverse window through the hammer.

1,477,834. ELECTRIC SWITCH. GEORGE LEDDICK, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 25, 1921. Serial No. 464,095. 7 Claims. (Cl. 200—5.)



1. The combination in an electric switch of a circuit terminal, two relatively movable identical switch members having overlapping ends, a spring cooperating with the said ends of the switch members for holding each of the switch members in a predetermined position with respect to the other switch member and for holding the said overlapping ends in engagement with the said terminal, a circuit terminal adapted to be engaged by the other end of one switch member, and a circuit terminal adapted to be engaged by the other end of the other switch member.

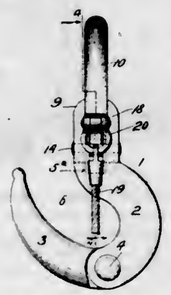
1,477,835. DEVICE FOR REMOVING SHEETS SINGLY FROM A PILE OF SHEETS. RICHARD LEUMANN, Chailly-sur-Lausanne, Switzerland. Filed Mar. 31, 1921. Serial No. 457,483. 4 Claims. (Cl. 271—29.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a sheet feeding device means to support a stack of sheets slightly inclined with their forward ends overhanging said means and downwardly flexed, means to force and hold the sheets in such position, a sucker

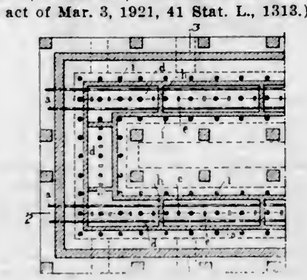
device co-operating with the overhanging end of the lowermost downwardly bent sheet, and means to move said device to flex the lowermost sheet to a greater degree in the direction of initial flexure to thereby separate the front end of the lowermost sheet from the sheets above it, and means to seize and withdraw the lowermost sheet from the stack.

1,477,836. TRIP HOOK. OWEN J. MCGOWAN, Brooklyn, N. Y. Filed July 26, 1921. Serial No. 487,679. 2 Claims. (Cl. 294—83.)



1. A trip hook embodying, in combination, a substantially concavely curved body portion, a bill pivoted at the lower end to said body portion and having a tail portion extending into contact and curved into substantial conformity with the body portion at the side of the mouth opposite to the bill proper, said tail portion also being provided with a locking notch at its terminal end, a neck portion at the upper end of said body portion, having a vertically-disposed socket completely enclosed therein, a spring-pressed latch-bolt slidably mounted in said socket and adapted to extend into the locking notch in the tail portion and a pawl pivoted at one side of said socket for releasing said bolt to trip the hook.

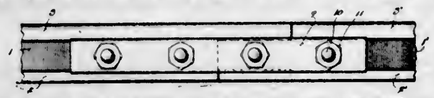
1,477,837. CONTINUOUS KILN. FRITZ MAYER, Nuremberg, Germany, assignor to Berta Stoerzer, Brooklyn, N. Y. Filed Aug. 9, 1921. Serial No. 491,049. 3 Claims. (Cl. 122—7.) Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A continuous kiln having a passage located in the upper wall thereof, openings in said wall connecting said passage with the burning chambers of the kiln, partitions in said passage dividing it into compartments corresponding in length to the length of the burning chambers of the kiln and water pipes in said passage adapted to be connected to the piping in a drying chamber.

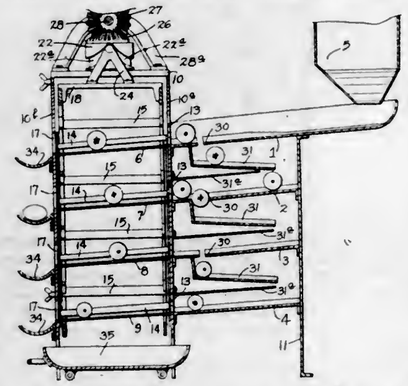
1,477,838. METALLIC BEAM SPLICE. JOHN MAYOTTE, Odanah, Wis., assignor of one-half to Joseph Soulier, Odanah, Wis. Filed Feb. 9, 1923. Serial No. 617,961. 2 Claims. (Cl. 238—231.)

1. In a beam splice, the combination of a pair of juxtaposed beam ends having interlocking tongues positioned upon opposite sides of a central web, a pair of fish plates bolted through such web, one of said ends



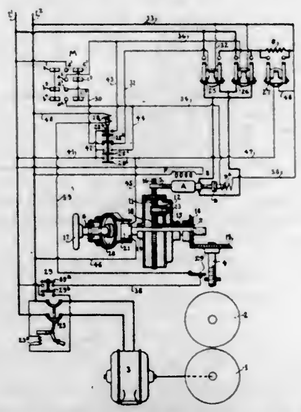
having the web wholly cut away adjacent such end and the other end having a web adapted to fit within the cut away portion.

1,477,839. BERRY CAP AND STEM REMOVER. EMMA T. MILLER, San Antonio, Tex. Filed Mar. 3, 1922. Serial No. 540,776. 6 Claims. (Cl. 146—55.)



1. In an apparatus for removing the caps and stems of berries, the combination of inclined runways, means for grading berries in said runways, discharge channels communicating with said runways and having fixed knives forming part thereof, reciprocative knives adapted to act in conjunction with said fixed knives, and means for operating said reciprocative knives, and means for mounting the parts.

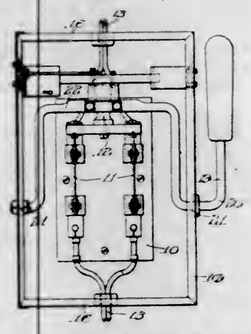
1,477,840. CONTROLLER FOR DRIVEN MACHINES. NIELS L. MORTENSEN, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed July 24, 1922. Serial No. 577,020. 10 Claims. (Cl. 18—2.)



1. In a controller for driven machines having relatively adjustable work-performing parts adapted to act upon material fed therebetween in combination means

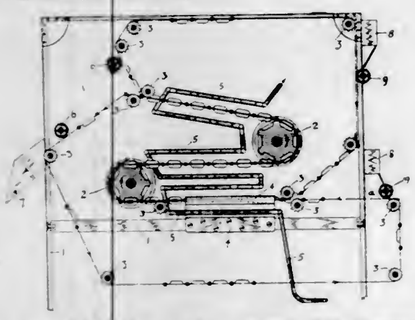
for effecting relative adjustment of said parts and control means associated with said former means and operable in emergencies to effect a given relative adjustment of said parts.

1,477,841. SAFETY APPLIANCE FOR ELECTRIC SWITCHES. MICHAEL MURRAY, Chicago, Ill. Filed Aug. 19, 1918. Serial No. 250,442. 8 Claims. (Cl. 200—50.)



8. A safety appliance for electric switches, comprising a switch housing, a door closing said housing, means operable by the opening of the door to obstruct closing movement of the switch, and means automatically locking the door in a predetermined position with said obstructing means across the path of closing movement of the switch.

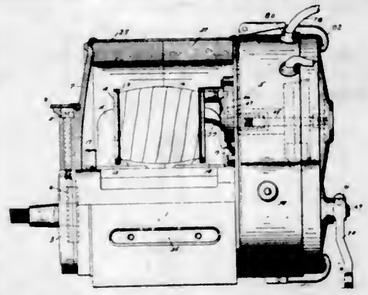
1,477,842. BAKING MACHINE. FRANK NAROBE, New York, N. Y. Filed July 8, 1921. Serial No. 483,242. 3 Claims. (Cl. 107—58.)



2. In a roll baking machine of the class described, two co-operating chains of baking elements, said baking elements being made of sheet metal, having roll-forming molds pressed therein and being hingedly connected in continuous pairs by means of corresponding perforations and hooks formed integrally at the respective edges of the co-operating chain elements, said chain elements having longitudinal rows of perforations and being adapted to be propelled thereby.

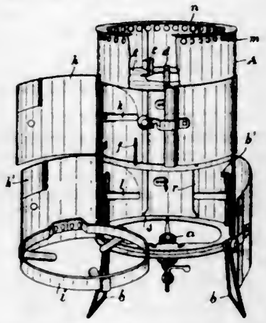
1,477,843. MAGNETO-ELECTRIC GENERATOR. EDWARD B. NOWOSIELSKI, Bloomfield, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed Mar. 12, 1920. Serial No. 365,305. 17 Claims. (Cl. 171—209.)

1. An electric generator including a rotary inductor housed within a base structure having two sets of stationary pole pieces, one set having the pole pieces constituting the set arranged on opposite sides of a vertical plane passing through the axis of rotation of said inductor but cut by a horizontal plane passing through said axis near the center of their arcuate faces, said one set of pole pieces being inclined at an angle with reference to said vertical plane and also being shouldered for the reception of permanent magnets, and the other set arranged on the same side of said horizontal plane



but longitudinally spaced apart, permanent magnets associated with and fitting the shoulders on the first set of pole-pieces and a current generating coil in fixed relationship to the last mentioned set of pole pieces and adapted to be acted upon by the magnetic flux through said pole pieces.

1,477,844. APPARATUS FOR BAKING, ROASTING, COOKING, AND THE LIKE. KNUT ERNST REINHOLD NYSTRÖM, Stockholm, Sweden, assignor to Aktiebolaget Optimus, Uplands-Vasby, Sweden, a Corporation of Sweden. Filed Apr. 3, 1922. Serial No. 549,083. 4 Claims. (Cl. 126—39.)

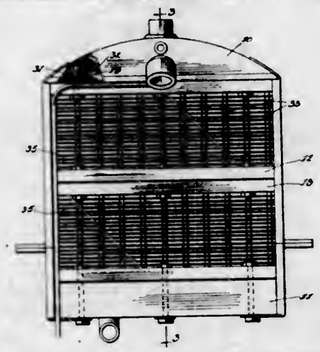


1. An apparatus for simultaneous baking, roasting, cooking and the like by means of a single source of heat placed at the base of the apparatus, comprising a vertical cylindrical housing, an intermediate centrally perforated bottom dividing the interior of the housing into one upper cooking compartment and one lower baking and roasting compartment, means for supporting a cooking vessel above said bottom, projections foldably secured to the inner wall of the housing in said lower compartment, doors giving access to said lower compartment and swingable rings adapted to support culinary pans in the lower compartment of the housing.

1,477,845. SECTIONAL RADIATOR FOR MOTOR VEHICLES. RAYMOND J. O'BRIEN, Butte, Mont. Filed Dec. 16, 1921. Serial No. 522,850. 2 Claims. (Cl. 257—125.)

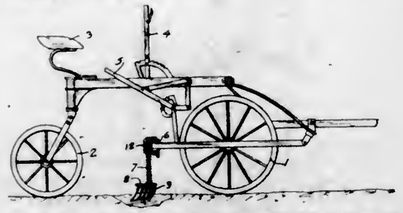
1. A motor cooling device comprising end and intermediary radiator sections, and means for rigidly securing said sections together to form a unit; one of said end sections being formed as an enclosed tank with an inlet port, the other end section having an outlet port,

both ports adapted to be connected to the motor cooling conduit; and both end sections being interchangeable each of said intermediary sections including a pair of spaced pans forming water chambers, pipe connections between said pans and radiating fins surrounding said pipe connections, the contiguous walls of said pans and



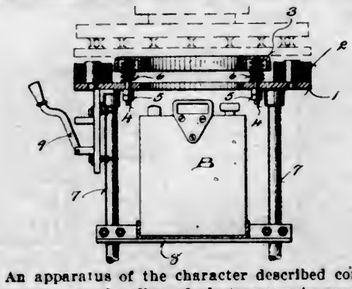
said end sections having corresponding apertures, whereby water may be circulated through all the radiator sections, and means for rigidly securing said device to the motor frame, said means including fingered elements engaging between said pipe connections of the intermediary sections.

1,477,846. CULTIVATOR. TOMOTARO OKAMOTO, Fort Lupton, Colo. Filed Mar. 9, 1922. Serial No. 542,370. 2 Claims. (Cl. 97—8.)



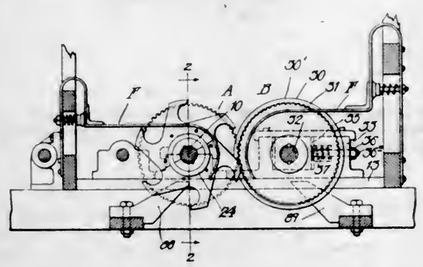
1. A cultivator tool comprising a V-shaped supporting bar, a plurality of teeth secured to the under side of said bar and turned away from the front towards the rear thereof, a pair of bolts secured to said bar at substantially equal distances from the vertex thereof, a U-shaped clamping member slidable on each of said bolts, and a spring surrounding said bolts and abutting against said bar and said U-shaped clamping members.

1,477,847. MAGNETIZING APPARATUS. AARON G. PALMER, Madison, Wis., assignor to Madison Battery and Service Company, Madison, Wis. Filed July 15, 1922. Serial No. 575,421. 4 Claims. (Cl. 175—21.)



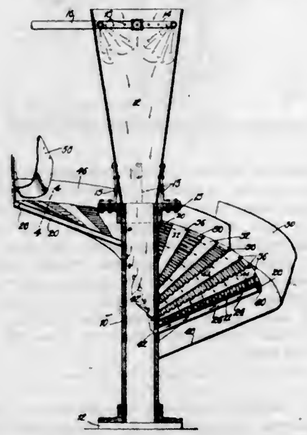
1. An apparatus of the character described comprising a base plate, a plurality of electromagnets mounted on said plate, a magneto support normally positioned above the electromagnets, and yieldable means to permit depression of said support, whereby the magneto is drawn into contact with the electromagnets upon energizing the latter.

1,477,848. COAL BREAKER. FRANK PARDEE, Hazleton, Pa. Original application filed Aug. 11, 1921, Serial No. 491,389. Divided and this application filed Mar. 14, 1922. Serial No. 543,715. 2 Claims. (Cl. 83—52.)



1. In an apparatus of the class described a cutting roll comprising a number of discs arranged alongside each other on a shaft, each disc being formed of separable sections each having an integral hub formed thereon and rings arranged to fit over said hubs to hold the sections together, the hubs of the adjacent discs abutting one another to space the discs.

1,477,849. SPIRAL SEPARATOR AND METHOD OF SEPARATING MATERIALS. FRANK PARDEE, Hazleton, Pa., assignor to Anthracite Separator Company, a Corporation of Pennsylvania. Filed Mar. 28, 1922. Serial No. 547,451. 25 Claims. (Cl. 83—54.)

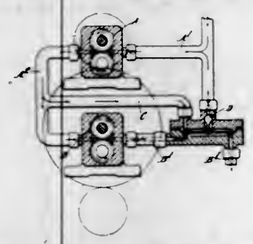


4. In a separator a spiral runway and means for discharging a fluid therefrom at a multiplicity of points along the runway to assist in the separation of the material traveling on the runway.

1,477,850. PUMPING DEVICE. WILLIAM POOL, Crayford, England, assignor to Vickers Limited, Westminster, London, England. Filed Dec. 28, 1921. Serial No. 525,406. 3 Claims. (Cl. 230—30.)

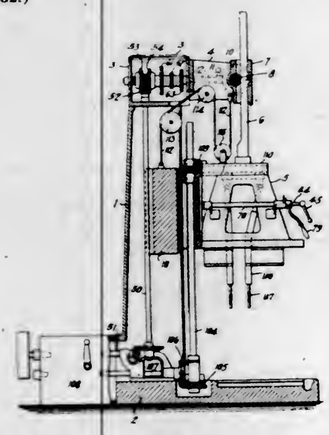
1. In a pumping device, the combination of two pump elements working to give different delivery rates per

unit of time, a conduit leading fluid under pressure from the pump element having the greater delivery rate to



the pump element having the smaller delivery rate, and means for by-passing the surplus fluid delivered from the first mentioned pump element.

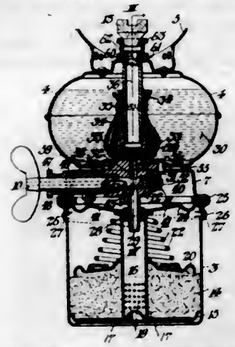
1,477,851. MULTIPLE-SPINDLE DRILL. VIRGIL A. ROOT, Springfield, Mass., assignor to Baush Machine Tool Company, a Corporation of Massachusetts. Filed Apr. 27, 1921. Serial No. 464,930. 3 Claims. (Cl. 77—32.)



1. A multiple spindle drilling machine having a head carrying a number of spindles and having lateral means for guiding said head in a direction parallel to the spindles, a rack directly connected to said head at a point substantially or approximately in line with the center of pressure of the several drills and a pinion directly engaging said rack for feeding said head, fast travel gearing engaging said pinion for retracting and advancing said head and slow feed gearing engaging said pinion for feeding the head to force the spindles through the work.

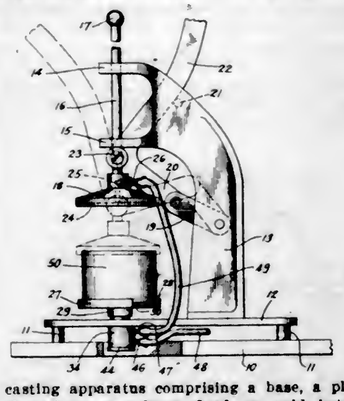
1,477,852. ACETYLENE-GAS GENERATOR. EDWIN M. ROSENBLUTH, Wallingford, Pa. Filed Feb. 17, 1919. Serial No. 277,415. 3 Claims. (Cl. 48—4.)

1. The combination with an acetylene gas generating lamp structure including a carbid receptacle, a water receptacle above said carbid receptacle, and a valve casing interposed between said two receptacles; of means arranged to direct the flow of water from said water receptacle to said carbid receptacle, and the flow of gas from said carbid receptacle; including a valve body in said valve casing, having a gas discharge tube extending upwardly through said water receptacle, a valve in said body, having a stem extending laterally, to the exterior of said valve casing; a sleeve encircling said valve stem and extending from said valve body to the exterior of said valve casing, sealing means, and screw means on said gas tube and valve sleeve normally



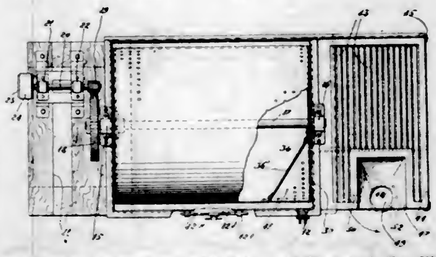
connecting said two structures; whereby, upon release of said screw means, said valve structure may be removed from said lamp structure.

1,477,853. DENTAL CASTING APPARATUS. WALTER E. SATTLER, New York, N. Y. Filed Aug. 2, 1922. Serial No. 579,142. 5 Claims. (Cl. 22—69.)



1. A casting apparatus comprising a base, a platform spaced thereabove, a column fixed on said bottom, a plug fixed in said platform to extend downward into said base and having an extending upper end, a plate having a hub slidable on the extending end of said plug, said plate being receptive of a flask, a plunger carried by said column, a bell-crank lever pivoted thereto engaging said plunger, and a single link combined with said lever for holding the plunger when in a raised position.

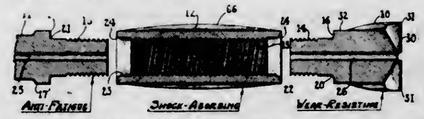
1,477,854. WASHING MACHINE. ARNO TAUSCHER, Brooklyn, N. Y. Filed June 13, 1922. Serial No. 568,037. 5 Claims. (Cl. 146—197.)



1. In a machine for washing vegetables and the like, a foraminous cage, means for rotating the same, and

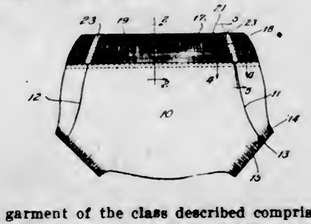
measuring and discharging means comprising a single receptacle, within said cage and rendered operative once during each rotation of the latter for receiving and retaining a quantity of the articles being washed in the machine during the rotation thereof and thereafter discharging the same.

1,477,855. DRILL. FRED W. THURSTON, San Francisco, Calif. Filed Apr. 18, 1922. Serial No. 554,858. 12 Claims. (Cl. 255—64.)



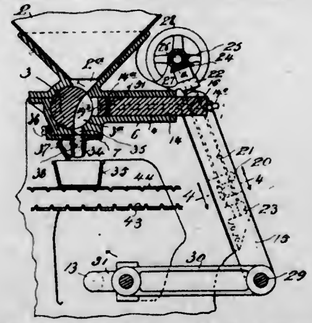
1. A drill adapted to be percussively driven into rock and the like, comprising a separable bit and drill rod, including an intermediate member; said bit being formed and tempered to have wear-resisting properties as its dominant characteristic, said drill rod being formed and tempered to have anti-fatigue properties as its dominant characteristic, said intermediate member being formed and tempered to have shock absorbing properties as its dominant characteristic.

1,477,856. WATERPROOF OVERGARMENT. HERWIG C. TOEPPEN, Wilmette, Ill., assignor to The Sanitary Rubber Novelty Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 29, 1922. Serial No. 547,607. 5 Claims. (Cl. 2—122.)



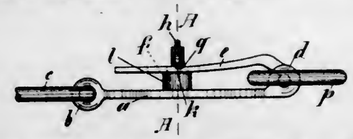
1. A garment of the class described comprising a body portion of waterproof material having openings for the legs, a girdle of open work material secured to the upper part of the body portion, a hem at the upper edge of the girdle, a band within said hem, and a plurality of straps connecting the waterproof body with said hem.

1,477,857. DEPOSITING MACHINE. THOMAS S. VIEROW, Jersey City, N. J. Filed May 19, 1922. Serial No. 562,081. 6 Claims. (Cl. 107—28.)



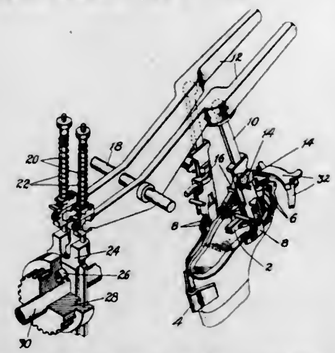
1. A depositing machine comprising a hopper, a cylinder, valve means between the hopper and cylinder, a plunger in the cylinder, an arm pivotally connected with and depending from the plunger, a fulcrum for the arm below the plunger, means to operate the arm, and means to adjust said fulcrum along the arm relatively to the plunger.

1,477,858. CHAIN LOCK. ADOLF VON ARX, Niederuzwil, Switzerland. Filed May 5, 1922. Serial No. 558,579. 2 Claims. (Cl. 24—241.)



1. An improved chain lock comprising in combination an arm, an eyelet at one end of said arm attached to the end of a chain, a second arm having a longitudinal slot, a hinge for connecting said second arm to the other end of the first mentioned arm so that the end of a second chain can be inserted between said two arms, the first arm having a raised hollow boss beneath the slot of the second arm, resilient means in the boss, and a handle insertable through the slot of the second arm and rotatable and slidable in the boss against said resilient means to be held thereby against disengagement with the second arm.

1,477,859. PULLING-OVER MACHINE. HORACE D. WEBB, Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 26, 1919. Serial No. 299,769. 2 Claims. (Cl. 12—11.1.)

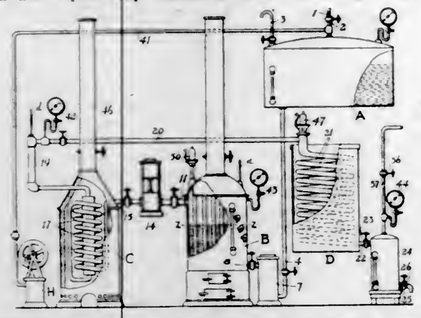


1. In a pulling-over machine, the combination with last and upper positioning means, of opposite side grippers for pulling the upper over the last comprising at each side of the last a pair of gripper jaws having upper gripping faces formed to engage the upper continuously from a point in front of the ball line to a point at the rear of the ball line of the last for gripping and pulling the upper free from wrinkles along the convexly curved edge of the last bottom in the vicinity of the ball, and means for effecting relative movement of said grippers and the last to pull the upper and for moving the grippers toward each other to draw the upper inwardly over the bottom of the last, the upper gripping faces of said jaws being curved laterally of the shoe in approximate conformity to the curvature of the edge of the last bottom in the locations where the grippers pull the upper to cause the grippers in their overdrawing movement to draw the upper close to the sides of last at the rear of the ball line as well as farther forwardly.

1,477,860. OIL-CONVERTING APPARATUS FOR THE CONVERSION AND TRANSFORMATION OF OILS. JOSEPH H. ADAMS, Flatbush, N. Y., assignor to The Texas Company, Houston, Tex., a Corporation of Texas. Filed Apr. 6, 1916. Serial No. 89,335. 5 Claims. (Cl. 196—3.)

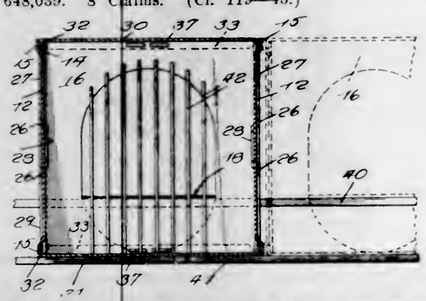
4. An apparatus of the nature disclosed comprising in combination a bulk oil supply tank, a boiler for vaporizing oils, pipe connections between said tank and

boiler, a pump in said connections for supplying oil to said boiler, a pre-heater between said pump and boiler, a converter comprising a series of tubular chambers within a furnace chamber adapted to withstand high heat, a hot vapor pump for taking vapors from said boiler and forcing them into said converter, a carbon and liquid trap connected to the discharge end of



said converter, a condenser connected to the vapor space of said carbon and liquid trap, means for collecting and controlling the discharge of liquid and gases from said condenser, means for subjecting the vapors in said converter to a converting or cranking temperature, and means for maintaining vapor pressures in said converter through the condenser.

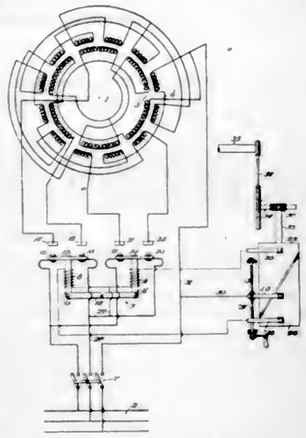
1,477,861. POULTRY NEST. CHARLES L. ALLEN, Claremont, Va. Filed June 27, 1923. Serial No. 648,039. 8 Claims. (Cl. 119—45.)



7. In a nest of the type described, a body portion including a main section forming rear and side walls and a front wall, the front wall being provided along its vertical edges with a plurality of angular flanges, alternate flanges of the front wall being adapted to engage upon opposite sides of the side wall thereby to maintain the side walls in fixed relation to the front wall and the top and bottom members secured to the main section and front wall and preventing separation thereof, the front wall having an entrance opening formed therein, a plurality of transversely spaced openings formed above the entrance opening, a plurality of openings formed in the bottom plate and aligned with the openings of the front plate, and wires directed through the first named openings and having their ends extending through the last named openings for forming a grate preventing passage through the opening of the front plate.

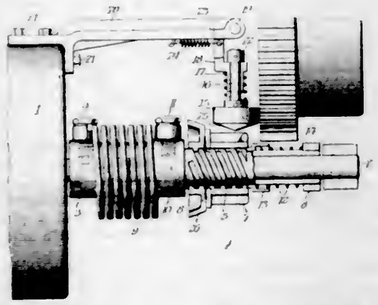
1,477,862. SPEED CONTROLLER. JOHN M. BARR, Milwaukee, Wis., assignor to The Louis Allis Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 5, 1922. Serial No. 586,193. 24 Claims. (Cl. 172—171.)

1. A speed controller for a prime mover having means for changing the speed thereof and means for automatically operating the aforesaid means periodically to change the motor speed so as to obtain a substantially constant average speed, the latter means being adjustable to vary the period during which the prime



mover operates at each speed so as to enable the substantially constant average speed to be adjusted and varied.

1,477,863. ENGINE STARTER. VINCENT BENDIX, Chicago, Ill. Filed Oct. 19, 1922. Serial No. 595,561. 19 Claims. (Cl. 123—179.)



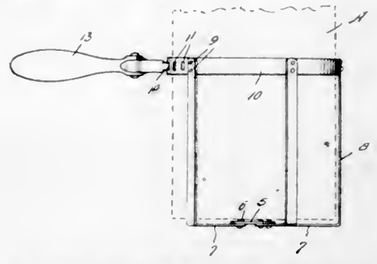
1. In an engine starter drive, the combination, with a member of the engine to be started, of a rotatable shaft, a driving member mounted thereon for enforced longitudinal movement thereon by the rotation of the shaft and adapted to engage the engine member, and means for relieving such driving member from such enforced longitudinal movement when the engine member rotates backwardly.

1,477,864. ARTIFICIAL BAIT. GEORGE W. BOLTON, Detroit, Mich. Filed Nov. 29, 1920. Serial No. 426,962. 2 Claims. (Cl. 43—46.)



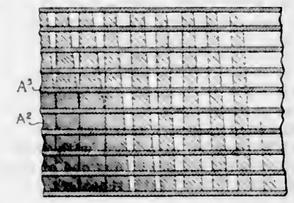
1. In an artificial bait casting plug adapted to serve as a lure for species of fish, said plug having permanent hooks and vertical and horizontal seats in its upper rear portion which seats are formed by removing approximately a quarter section of the plug, a plurality of interchangeable members similar to the quarter section of the plug and either of which may be placed in engagement with the plug seats without disturbing the hooks to impart an appearance to the plug more suitable as a bait for one species of fish than another, and quick detachable means adapted to hold either of said members on the seats of said plug so that said members may be hurriedly changed.

1,477,865. JAR HOLDER. WILLIAM R. CLOER, Legerwood, N. C. Filed Apr. 14, 1923. Serial No. 631,992. 1 Claim. (Cl. 81—3.3.)



A jar holder including a plate, a plurality of arms having one end pivotally secured to said plate and the other end formed with a lateral projection, a strip arranged in loop form and secured to the free ends of said lateral extensions, one end of said strip being provided with a plurality of openings, and a pair of pivotally connected operating members having the free end of one member pivotally connected to the other end of the strip, the corresponding free end of the other member being provided with a hook for engagement in the openings in the other end of said strip, whereby a jar may be positioned within the loop formed by said strip to rest on said plate, the hook formed on one of said members engaged in one of the openings of said strip with the members at a substantial angle to one another, said members being subsequently drawn toward each other to bring the lateral projections into tight gripping relation with the jar and move the arms on their pivots for bringing them in close relation to the sides and bottom of the jar to hold said sides in proper position within the looped strip.

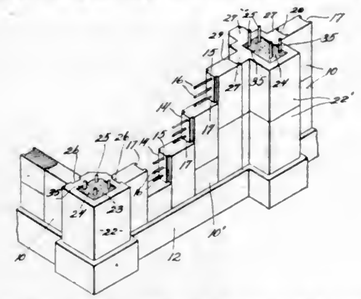
1,477,866. PRODUCING PRINTING SURFACES. HIRAM C. J. DEEKS, Sea Cliff, N. Y. Filed Mar. 6, 1920. Serial No. 363,855. Renewed May 9, 1923. 14 Claims. (Cl. 41—43.)



1. A metal printing roll for etching purposes comprising a photographic plate coated with an acid resist having picture-forming lines running in one direction, and surface-height-preserving lines running in another direction.

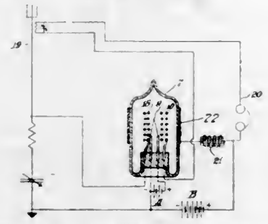
1,477,867. BUILDING WALL. DAVID W. DODSON, Wichita, Kans. Filed Feb. 20, 1922. Serial No. 537,701. 3 Claims. (Cl. 72—16.)

1. In a building wall, a curtain structure comprising a plurality of block sections, a column composed of superposed hollow sections having the interiors thereof registering and adapted to be filled with concrete to proivde a substantially integral column structure, said column sections and adjacent edge of the curtain structure being



of tongue and groove formation for interlocking engagement, and tie-rods threaded through said block sections and having one end of each rod in retaining engagement with one of said column sections.

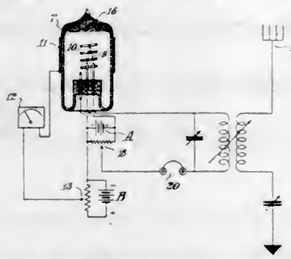
1,477,868. METHOD AND APPARATUS FOR INCREASING ELECTRONIC EMISSION. HAROLD P. DONLE, Meriden, Conn., assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn., a Corporation of Connecticut. Filed May 9, 1919. Serial No. 295,897. Renewed Aug. 16, 1923. 32 Claims. (Cl. 250—27.)



1. The method of increasing the electronic emission from the cathode of a thermionic valve which consists in extracting from the material of the walls of said valve a material having a higher electronic emission than the material of which the cathode is composed and deposing the same upon the cathode.

25. A vacuum tube having a cathode, an anode, and a third electrode and containing a free alkali metal.

1,477,869. ELECTRONIC EMISSION. HAROLD POTTER DONLE, Meriden, Conn., assignor to The Connecticut Telephone and Electric Company, Incorporated, Meriden, Conn., a Corporation of Connecticut. Filed Feb. 3, 1923. Serial No. 616,660. 4 Claims. (Cl. 250—27.)

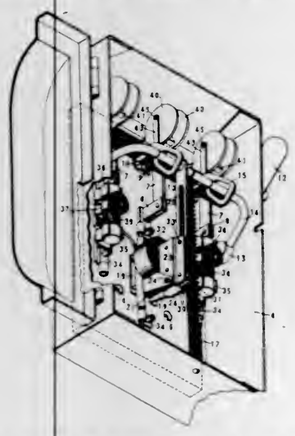


1. The method of increasing the electron emission of a filamentary cathode at a given temperature which consists in continuously attracting to said cathode electrically charged particles of sodium.

1,477,870. ARTIFICIAL RESIN AND METHOD OF PREPARATION. CARLETON ELLIS, Montclair, N. J. Filed Dec. 26, 1922. Serial No. 609,135. 5 Claims. (Cl. 260—4.)

4. The process of making a resin which comprises heating phenol and butyl aldehyde with an acid catalyst and reacting on the product with furfural in the presence of an alkaline catalyst.

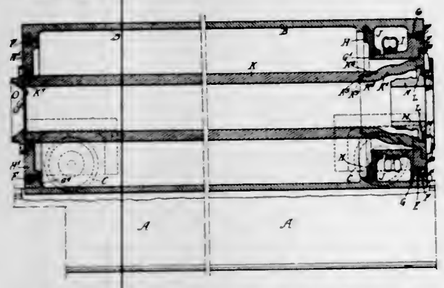
1,477,871. MOTOR-STARTING SWITCH. BENJAMIN E. GETCHELL, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation of Connecticut. Filed June 27, 1922. Serial No. 571,310. 19 Claims. (Cl. 200—106.)



18. In a switch, a loosely pivoted armature, a stop carried thereby, a link having a sliding engagement with said armature and adapted to engage said stop, a spring acting upon said link and a magnet acting upon said armature to hold the parts in closed circuit position.

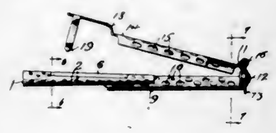
19. In a switch, a magnet, an armature pivoted at one end to swing toward and away from the magnet, a stop carried by said armature adjacent its pivot, a link having a sliding engagement with the opposite end of said armature and adapted to abut against said stop in the closed circuit position and means for actuating said link.

1,477,872. CENTRIFUGAL PIPE MOLD. WILLIAM L. HAYNES, Burlington, N. J., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed Mar. 9, 1922. Serial No. 542,361. 2 Claims. (Cl. 22—65.)



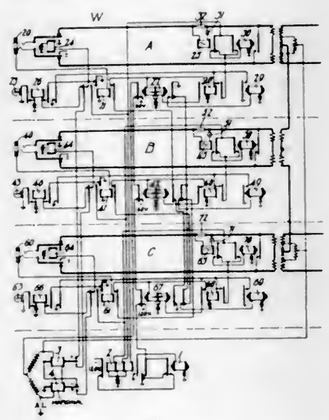
1. A centrifugal mold for casting bell flange or enlarged ended pipe consisting of an integral forged cylinder of hard steel in combination with a separable metal end piece having the internal form of the bell end of the pipe and formed of a softer steel.

1,477,873. HAIR-WAVING DEVICE. HANNAH JACOBS, Brooklyn, N. Y. Filed Feb. 19, 1923. Serial No. 619,787. 10 Claims. (Cl. 132—37.)



1. A curler for permanent hair waving comprising a hollow, tubular body, a chemical filler for treating the hair, adapted to be inserted in the curler, and a cap for the curler adapted to permit the insertion and removal of the chemical filler in said curler.

1,477,874. TELEPHONE SYSTEM. WILLIAM H. HARRISON, Hollis, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 30, 1919. Serial No. 348,430. 15 Claims. (Cl. 179—43.)



1. In a telephone system, distant offices, operators' positions thereat, a plurality of transmission line connecting said offices, a signaling circuit connected to certain of said lines, means at each office operable to transmit a signaling impulse over said signaling circuit and the lines connected thereto to another office, means at said other office responsive to said impulse for indicating the line over which a call has been initiated, and means at said other office for preventing the operation of the first-named means thereat when the operator at said other office responds to the initiated call.

12. In a signaling system, a plurality of two-way transmission lines, a repeater associated with each line, and means responive to the seizure of any one of said lines for rendering operative all of said repeaters.

1,477,875. ELECTRIC CANDLE LAMP. MORDUCH L. KAPLAN, Brooklyn, N. Y. Filed Dec. 29, 1920, Serial No. 433,784. Renewed June 6, 1923. 11 Claims. (Cl. 240—8.5.)

1. An electric candle-lamp of the character described, comprising a battery adapted to stand on end and having an upwardly projecting positive element and a conducting strip extending from its negative element to the upper end of the battery and bent over upon the same, a dome of conducting material detachably mounted on the upper end of the battery and adapted to engage said strip and having means for firmly securing it to the upwardly projecting positive element of the battery, and an electric lamp bulb



detachably socketed in the apex of the dome with one terminal in electrical connection with the positive element of the battery.

1,477,876. ELECTRIC-BATTERY LAMP. MORDUCH L. KAPLAN, Brooklyn, N. Y. Filed July 27, 1921. Serial No. 487,833. 3 Claims. (Cl. 240—8.5.)



1. An electric battery lamp of the character described, comprising a vertical plural cell battery, a non-conductive durable carton which receives said cells endwise and snugly encloses them and extends above the upper cell, leaving a substantial space within the upper end of said carton above the battery, a removable conductive cap having a skirt portion snugly fitting within the upper end of said carton above the battery, said cap having a depending central socket for and carrying therein an electric lamp detachably applied to said socket and having one terminal positioned for electrical connection with one pole of the battery, a conductor secured to the opposite pole of the lower cell of the battery and thence extending to the upper end of the battery and being there secured in position to become electrically engaged with said cap upon the application of the cap to position, and means within the aforesaid space releasably locking the skirt portion of said cap within the upper end of said carton and in fixed electrical connection with said conductor, said lamp serving as a make or break switch.

1,477,877. ELECTRIC-BATTERY LAMP. MORDUCH L. KAPLAN, Brooklyn, N. Y. Filed Nov. 9, 1921. Serial No. 514,012. 8 Claims. (Cl. 240—8.5.)



8. An electric-battery lamp of the character described, comprising a plural cell battery the carbon of whose upper cell is formed in its upper end with a socket, a cap or dome for detachable application to the upper end of the battery carrying an electric lamp bulb detachably applied thereto and also conductive means for detachably securing the cap or dome and adapted to said socket, said conductive securing means being positioned for electrical connection with one terminal of said lamp bulb, and means for completing the circuit from the negative pole of the battery through the other terminal of said lamp bulb.

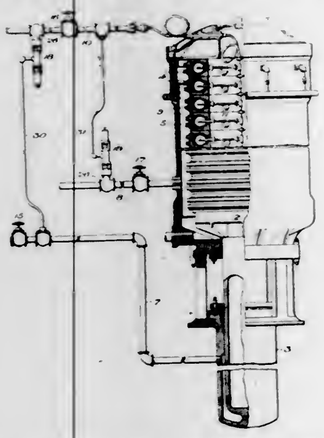
1,477,878. ELECTRIC BATTERY LAMP. MORDUCH L. KAPLAN, Brooklyn, N. Y. Filed Feb. 16, 1922. Serial No. 536,859. 10 Claims. (Cl. 240—8.5.)



10. An electric battery lamp of the character described, comprising a plural cell battery adapted to stand on end and the positive pole elements of whose cells extend downwardly, a carton enclosing said cells, a conductor affording a central attaching means secured upon the negative upper end of the upper cell, a conductor connected with the positive pole of the lower cell and extending upwardly along one side of the battery to the upper portion thereof, a cap or dome superimposed over the upper end of said battery and having central conducting means insulated therefrom adapted to engage said central attaching

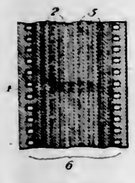
means for detachably securing said cap or dome in position, and an electric lamp bulb detachably socketed in said cap or dome with one terminal in electrical connection with the socket therefor and its other terminal adapted for connection with the negative upper end of said upper cell through said central conducting securing means and said central attaching means, the socket for the lamp being adapted for electrical connection with the upper portion of the positive pole conductor.

1,477,879. SYSTEM OF CONTROL FOR VULCANIZERS. KARL B. KILBORN and WALTER E. SHIVELY, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 30, 1921. Serial No. 525,847. 9 Claims. (Cl. 18—17.)



3. The combination with a steam heated hydraulic vulcanizing press, of means for admitting air to said press to inflate articles contained therein, said means being operably dependent upon the pressure of the hydraulic medium in the press, and means operably dependent upon the pressure of the air supplied to said articles for admitting steam to the vulcanizing press.

1,477,880. PRODUCING MULTICOLORED SCREENS. ISIDOR KITSEE, Philadelphia, Pa. Filed Mar. 29, 1921. Serial No. 456,743. Renewed Aug. 16, 1923. 7 Claims. (Cl. 95—81.5.)



1. The method of producing multi-colored screens on blanks useful for photographic purposes which consists in tinting one surface of a celluloid blank with one color, protecting the tinted surface with a coating, removing the tinted surface and protective coating from predetermined parts of the tinted blank with the aid of revolving discs, and tinting the freed parts with a second color.

1,477,881. PRODUCING INTEGRAL MULTICOLORED SCREENS ON PHOTOGRAPHIC BLANKS. ISIDOR KITSEE, Philadelphia, Pa. Filed Apr. 27, 1921. Serial No. 464,789. 14 Claims. (Cl. 95—81.5.)

1. The method of producing multi-colored screens on blanks useful for photographic purposes which consists in tinting one surface of a celluloid blank with one color, protecting the tinted surface with a protective coating, re-



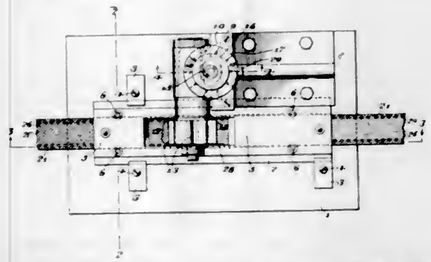
moving the protective coating and inted surface longitudinally from alernate areas of the tinted blank and tinting the freed parts with a second color.

1,477,882. PRODUCING INTEGRAL MULTICOLORED SCREENS ON PHOTOGRAPHIC BLANKS. ISIDOR KITSEE, Philadelphia, Pa. Original application filed Apr. 27, 1921, Serial No. 469,789. Divided and this application filed Dec. 7, 1921. Serial No. 520,663. 9 Claims. (Cl. 95—2.)



1. A moving picture film provided with comparatively short lines of different colors, both color lines directly on the celluloid proper and one color line recessed as to the adjoining color line.

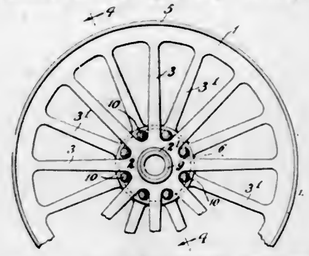
1,477,883. POLYCHROMATIC SCREENS INTEGRAL WITH MOVING-PICTURE FILMS. ISIDOR KITSEE, Philadelphia, Pa. Original application filed July 26, 1921, Serial No. 487,633. Divided and this application filed Feb. 21, 1922. Serial No. 538,328. 4 Claims. (Cl. 95—81.5.)



1. The method of producing integral screens upon cinematographic film, which method consists in tinting one of the surfaces of the film, then coating said tinted surface with a protective coating, and then with the aid of stationary cutters removing said protective coating and the underlying tinted surface of the film along unbroken longitudinal lines.

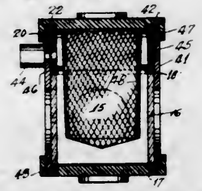
1,477,884. METAL WHEEL. MAURICE LACHMAN, New York, N. Y., assignor to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed May 15, 1920. Serial No. 381,782. 3 Claims. (Cl. 301—64.)

2. A metal wheel comprising a hub barrel, a hub member encircling said barrel, said member comprising a body and inwardly extending flanges at the edges of said body, a sheet of material formed with openings providing hub, spoke and felly portions, said hub portion lying adjacent the outer face of one of the flanges of said hub member and having a flange forming a part of



said hub portion, and means engaging the outer edge of said last named flange to force said hub portion into contact with said hub member.

1,477,885. GASOLINE FILTER FOR INTERNAL-COMBUSTION ENGINES. CHARLES L. LEHMANN, New York, N. Y. Filed Mar. 25, 1922. Serial No. 546,555. 3 Claims. (Cl. 210—165.)



1. In a filter of the class described, the combination of a filter chamber consisting of a piece of perforated pipe, a ring threaded into said pipe to form a ledge, a glass cylinder abutting on said ledge and forming a portion of said chamber, a cap screwed on the end of said pipe for holding said cylinder in place, a conical filter member extending into said chamber, a flange on the base of said member resting on said ring, and a cap for said chamber holding said member in place.

1,477,886. BELT AND THE LIKE. WARREN K. LEWIS, Newton, Mass., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 28, 1918. Serial No. 251,759. 8 Claims. (Cl. 74—63.)

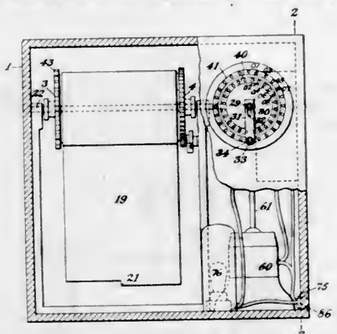


1. A new article of manufacture, consisting of a belt made of loosely woven jute fabric, and rubber material applied to the jute fabric.

1,477,887. SELECTIVE INFORMATION APPARATUS. LESLIE R. MCDONALD, Westmount, Quebec, Canada. Filed June 12, 1922. Serial No. 567,773. 20 Claims. (Cl. 40—35.)

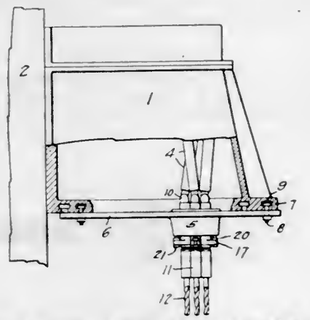
1. In a selective information apparatus, the combination of a rotatable placard carrier, continuously operable carrier driving means, and optionally operable superseding carrier driving and placard selecting means.

20. In a selective information apparatus, the combination of a rotatable placard carrier, continuously operable driving means therefor, optionally operable selective



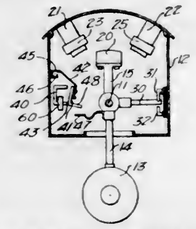
means, and means for allowing the selective means to supersede the action of the driving means and to accelerate the normal rotation of the carrier.

1,477,888. MULTIPLE-SPINDLE MACHINE. FRANCIS A. MOORE, Springfield, Mass., assignor to Baush Machine Tool Company, a Corporation of Massachusetts. Filed Jan. 12, 1921. Serial No. 436,657. 1 Claim. (Cl. 77—24.)



A multiple spindle machine having a head, a plate attached to said head and carrying a plurality of spindle bearings in fixed lateral relation to each other in said plate, means for separately adjusting each of said bearings longitudinally, said plate being laterally adjustable on said head, and flexible driving means carried by the head for driving the spindles in different lateral positions of the plate and different longitudinal adjustments of the spindle bearings.

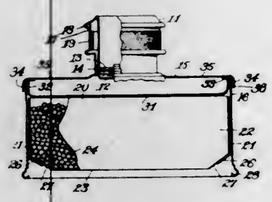
1,477,889. COIL CUT-OUT FOR WIGWAG SIGNALS. MARK S. MORSE, Los Angeles, Calif., assignor to Magnetic Signal Co., a Corporation of California. Filed Jan. 25, 1923. Serial No. 615,422. 8 Claims. (Cl. 177—329.)



1. In a wigwag signal, the combination of: an armature mounted to oscillate between two extreme positions;

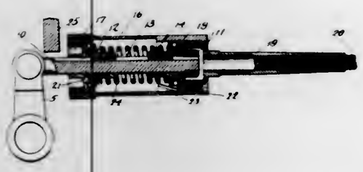
magnets so placed as to actuate said armature when magnetically excited; a plurality of coils for magnetically exciting said magnets; a switch for disconnecting a portion of said coils from the electric circuit; and means by which said switch is actuated after said armature starts to oscillate.

1,477,890. MATCH SAFE. JACOB E. NEAHR, New York, N. Y. Filed May 10, 1919. Serial No. 296,082. 13 Claims. (Cl. 206—20.)



1. As a new article of manufacture, a combined match-safe and match-striker, a match magazine having a lid upon which said combined match-safe and striker is mounted, and a tray filling said magazine and filled with matches from which the safe may be replenished, said magazine having no bottom, and provided with interior supports for the tray, and the tray formed with special contour to fit said supports.

1,477,891. AUTOMATICALLY-ADJUSTING TURNBUCKLE. ALDEN E. OSBORN, New York, N. Y. Filed Nov. 20, 1920. Serial No. 425,588. 10 Claims. (Cl. 188—202.)



5. The combination of a primary reciprocating member, a longitudinally slidable element movable in relation to and parallel with the direction of motion of said primary reciprocating member and rotatable in one direction only, means for preventing the rotation of said element in the other direction, a rotatable element, means for allowing the rotation of said rotatable element in one direction and for preventing its rotation in the other direction, a stop to cause the said longitudinal movement of the slidable element, a spring to return said slidable element to its normal position, to operate said means for preventing the rotation of the longitudinally slidable member in one direction and to operate said means for preventing the rotation of said rotatable element in one direction, and means whereby the movement of said slidable element rotates said rotatable element.

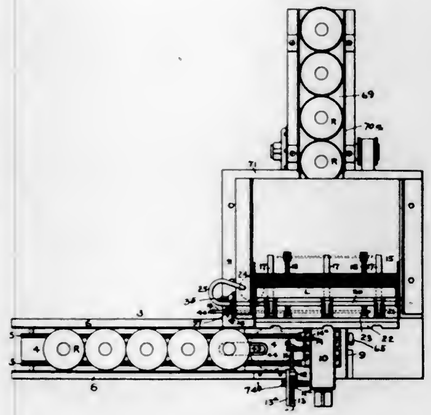
1,477,892. HANDLAMP. ARTHUR P. PAINE, New Haven, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn. Original application filed June 9, 1920, Serial No. 387,657. Divided and this application filed June 21, 1920. Serial No. 390,538. 32 Claims. (Cl. 240—8.5.)

23. In a hand lamp, a casing, a battery therein, a bulb, means for establishing a circuit through the bulb and battery including a conductor strip movable lengthwise of the casing, a manually operable slide permanently



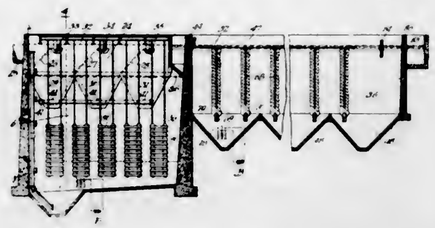
connected to said strip and by means of which it may be shifted, and movable means accessible at the outer part of the slide for controlling the sliding movement thereof.

1,477,893. MACHINE FOR APPLYING LABELS TO PAPER ROLLS, ETC. PHILIP D. PARSONS, Philadelphia, Pa., assignor, by mesne assignments, to Scott Paper Company, a Corporation of Pennsylvania. Filed Oct. 3, 1922. Serial No. 592,034. 17 Claims. (Cl. 216—55.)



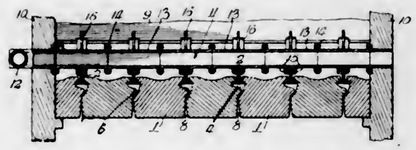
1. A machine for applying and securing bands about articles, comprising a reciprocating pusher head by which the article to be wrapped is pushed, means for feeding a wrapping band in the path of the article, means for applying an adhesive to one end of the band, a pair of wrapping arms between which the article is pushed by the pusher head and by which the band is wrapped about the article, and folders in addition to and respectively arranged in position adjacent to the ends of the wrapping arms and adapted to relative movement transversely to the direction of the passage between said arms for folding the ends of the band held in wrapped position about the article one upon the other.

1,477,894. APPARATUS FOR FACILITATING BACTERIOLOGICAL PROPAGATION. GEORGE ELLIOT PERRY, Chicago, Ill. Filed Nov. 8, 1915. Serial No. 60,384. 5 Claims. (Cl. 210—5.)



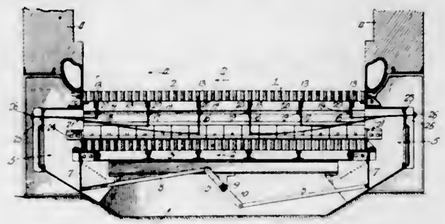
1. Apparatus for promoting the development of organisms, comprising a receptacle for a fluid body in which the organisms develop, and means for trapping and retaining a gas below the surface of the fluid and providing a self cleansing propagating ground for the organisms.

1,477,895. FIRE ARCH. HERMAN A. POPPENHUSEN, Hammond, Ind., assignor to Green Engineering Company, East Chicago, Ind., a Corporation of Illinois. Filed Aug. 6, 1921. Serial No. 490,333. 7 Claims. (Cl. 110—99.)



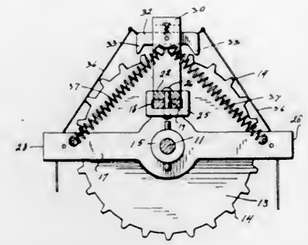
1. In a fire-arch, a plurality of laterally spaced beams, a plurality of rows of tiles, one row in each of the spaces between said beams and suspended therefrom, a plurality of conduits above said beams and adapted to have a cooling medium circulated therethrough, said conduits extending across said beams, and means carried by said conduits and engaging said beams for suspending the same from said conduits.

1,477,896. FURNACE. HERMAN A. POPPENHUSEN, Hammond, Ind., and ARTHUR P. STRONG, Chicago, Ill., assignors to Green Engineering Company, East Chicago, Ind., a Corporation of Illinois. Filed Jan. 23, 1922. Serial No. 531,075. 11 Claims. (Cl. 110—40.)



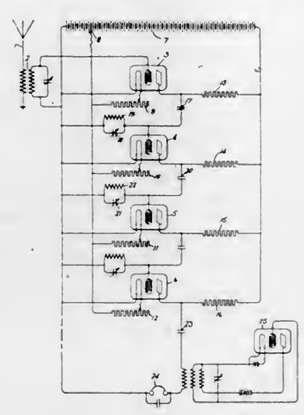
1. In a furnace, the combination of a grate, a plurality of compartments beneath the fuel supporting portion of said grate and opening upward toward the same throughout their lengths, means for supplying air to said compartments, and means in each compartment and arranged along the length thereof for directing varied amounts of draft toward different areas of said grate thereover.

1,477,897. VALVE-OPERATING MECHANISM. FRANK A. PORELL, Sanford, Me. Filed Mar. 24, 1923. Serial No. 627,382. 4 Claims. (Cl. 137—139.)



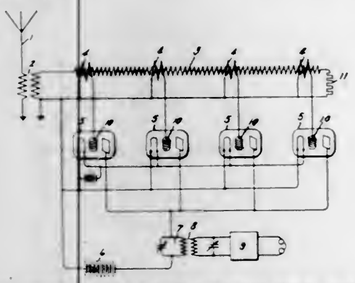
2. In valve operating mechanism, a toothed disk adapted for attachment to the stem of a valve, an arm pivoted axially of the disk, elastic means normally holding the arm in one position with relation to the valve, a pivoted member carried by the arm and provided at opposite ends thereof with teeth for engagement with the teeth of the disk, a spring maintaining the teeth of said member out of engagement with the teeth of the disk and connections with opposite ends of said member each adapted when shifted longitudinally in one direction to initially engage the tooth at the corresponding end of the member with the teeth of the disk and subsequently oscillate the arm upon its pivot to thereby rotate the disk.

1,477,898. AMPLIFYING SYSTEM. CHESTER W. RICE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 11, 1919. Serial No. 276,399. 8 Claims. (Cl. 179—171.)



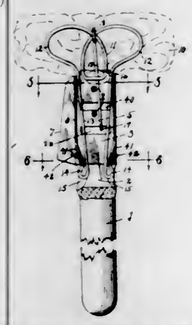
1. The combination in an amplifying system of a plurality of electron discharge amplifiers each of which has a cathode, an anode and a grid and plate and grid circuits, means for impressing currents which are to be amplified upon the grid circuit of one of said amplifiers, high ohmic resistance in the plate circuits of said amplifiers, a connection from the anode of said first amplifier to the grid of a second amplifier, said connection including a condenser and a connection between the cathode and grid of the second amplifier which is resonant to the frequency of the currents to be amplified, the last mentioned connections in series with the condenser forming a shunt circuit between the cathode and anode of the first amplifier.

1,477,899. HIGH-FREQUENCY SIGNALING SYSTEM. CHESTER W. RICE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 27, 1921. Serial No. 487,998. 17 Claims. (Cl. 250—20.)



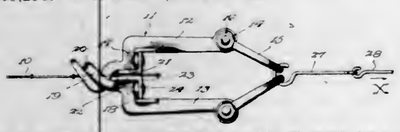
1. The combination in a high frequency signal receiving system of an artificial transmission line having an effective length equal to a plurality of wave lengths of the signals to be received, means for impressing the signaling currents to be received upon said transmission line, receiving apparatus and means for impressing upon said receiving apparatus signaling currents derived from more than two points on said transmission line.

1,477,900. MOP. WILLIAM RITSCHARD, Detroit, Mich. Filed June 26, 1922. Serial No. 571,046. 5 Claims. (Cl. 15—147.)



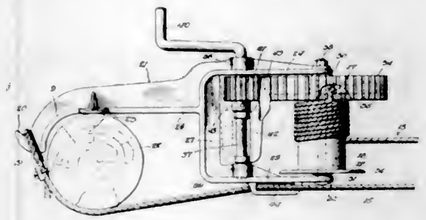
1. A mop comprising a handle formed with a longitudinal slot in one end, a metal insert mounted in the slot and formed of a strip of sheet metal bent upon itself to form spaced sides, the edge of one side extending from the slot in the handle to constitute a scraper, a wire holder bent intermediate its length to form a loop and having its ends extending into said insert, and a swab held onto the end of the handle by said loop.

1,477,901. WIRE-FENCE CLAMP. WILLIAM G. ROBINSON, Batavia, Iowa. Filed Dec. 21, 1922. Serial No. 608,296. 2 Claims. (Cl. 254—83.)



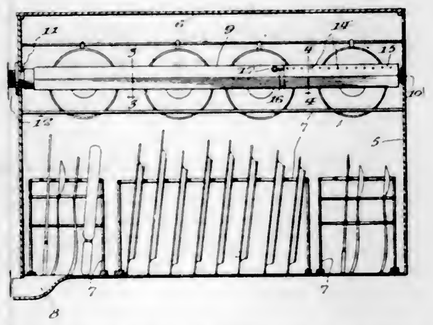
2. A fence clamp comprising a pair of angle bars constituting gripping members, mating jaw members having each a long and a short arm, said short arms having interlocking elements, wings integral with said jaw members positioned at the juncture of said long and short arms, said wings being rigidly united with the respective angle bars, and means for drawing said long arms together.

1,477,902. WIRE-FENCE STRETCHER. WILLIAM G ROBINSON, Batavia, Iowa. Filed Jan. 31, 1923. Serial No. 616,117. 3 Claims. (Cl. 254—162.)



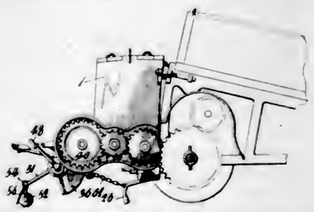
1. A fence wire stretcher comprising a frame, a drum revolubly mounted therein, a rope associated with said drum and adapted to be attached to the fence wire, a gear wheel rigidly connected to the drum, a crank shaft mounted in the frame with its axis parallel to that of the drum, a pinion secured on said crank shaft and meshing with said gear wheel, and a dog freely mounted on said crank shaft and adapted to be thrown in and out for engaging with said gear wheel.

1,477,903. DISHWASHING APPARATUS. HARRY ROSENBAUM, New York, N. Y. Filed Aug. 31, 1921. Serial No. 497,146. 5 Claims. (Cl. 141—9.)



1. A washing apparatus comprising a receptacle, a spray pipe in the receptacle supported for rotation about its longitudinal axis, said pipe having walls formed with radial spray perforations, and also with jet apertures discharging laterally in opposite directions and tangentially to the path of rotation of the pipe for rotating the pipe by the reaction of the discharging fluid jets.

1,477,904. PLANTER. CLIFFORD B. ROWLAND, Trenton, N. J. Filed Feb. 8, 1922. Serial No. 534,961. 1 Claim. (Cl. 111—61.)



A planter of the class described including in combination a receptacle, a furrow forming device mounted on the receptacle and movable in respect thereto, an extension formed on the receptacle, a shaft rotatable in the extension, means for rotating the shaft, a seed covering device keyed to the shaft, a crank extending from the shaft, and a chain connected to the crank at one end and to the furrow forming device at its other end whereby the furrow forming device and the seed covering device may be operated in unison with each other.

1,477,905. PROPEL PENCIL. WILLIAM M. SAUNDERS, Waterbury, Conn., assignor to The Hoge Manufacturing Company, New York, N. Y., a Corporation of New York. Filed Sept. 2, 1921. Serial No. 497,832. 7 Claims. (Cl. 120—18.)



5. In a propel pencil the combination of a casing comprising a body portion and a tip portion having their inner ends juxtaposed, a bushing fixed within one of said portions and adjacent to the inner end thereof, a follower carrier secured to said bushing, a second bushing, the same being located within the inner end of the other of said portions and having an extension entering the inner end of said first portion and free to turn therein, said extension having a reduced portion forming a shoulder spaced from its end and a lateral projection adjacent to its end, said shoulder and projection constituting abutments, a sleeve loosely mounted between said abutments and held fixed within the said inner end of said first portion, said extension having an internally threaded aperture at the end within said first portion, and a screw-threaded follower engaging the screw thread of said aperture and having a sliding engagement with said follower carrier; and a third bushing within the inner end of said first portion and with which said first bushing and sleeve make binding engagement.

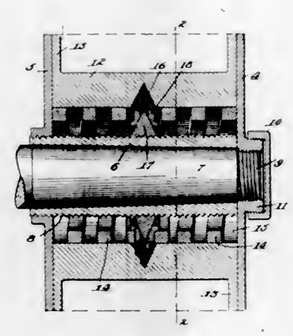
1,477,906. PROPEL PENCIL. WILLIAM M. SAUNDERS, Waterbury, Conn., assignor to The Hoge Manufacturing Company, New York, N. Y., a Corporation of New York. Filed June 19, 1922. Serial No. 569,310. 20 Claims. (Cl. 120—18.)



20. In a propel pencil, a sleeve member, a screw-threaded follower, a tube member containing said follower and secured to said sleeve member by a swivel connection, one of said swiveled members having a screw-thread engaged by said follower, and the other having means for preventing relative movement between it and said follower and permitting longitudinal movement of said follower when said tube member is turned relatively to said sleeve member, a sheath surrounding said parts and fixed relatively to said sleeve member, a tip secured to said sleeve member and abutting against the lower end of said sheath and holding the sheath upon said other parts, a tube located within said sheath and spaced away from said tube member so as to form a magazine, and removable means for closing the upper end of said magazine.

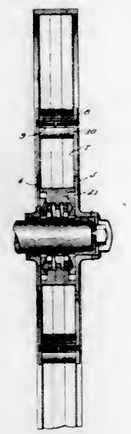
1,477,907. RESILIENT BEARING. BENJAMIN F. SEYMOUR, Washington, D. C. Filed June 7, 1919. Serial No. 302,412. 5 Claims. (Cl. 152—44.)

1. In a resilient bearing, the combination of a journalled supporting member, a member movable radially thereon, a laterally compressible element interposed between said members engaging with and directly supporting said radially movable member, and a cone element fixedly mounted on the supporting member operable to compress



said compressible element and absorb shocks imparted to said radially movable member, substantially as set forth.

1,477,908. RESILIENT TRANSMISSION AND BEARING. BENJAMIN F. SEYMOUR, Washington, D. C. Filed June 7, 1919. Serial No. 302,414. 5 Claims. (Cl. 152—45.)

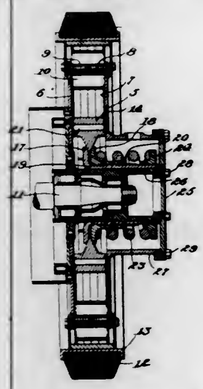


1. In a combined resilient bearing and transmission for vehicle wheels the combination of a hub member, a rim member floatingly mounted on the hub member, cooperable cam elements associated with said rim and hub members respectively, and a spring circumferential of the hub engaging the rim and cooperable with said cam elements, substantially as set forth.

1,477,909. RESILIENT TRANSMISSION AND BEARING. BENJAMIN F. SEYMOUR, Washington, D. C. Filed June 7, 1919. Serial No. 302,415. 3 Claims. (Cl. 152—45.)

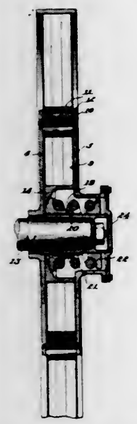
1. In a combined resilient bearing and transmission for vehicle wheels, the combination of a sleeve member slidable on the wheel hub, a wheel rim, said sleeve and wheel rim having a plurality of segmental and co-

operable cone elements, and a spring mounted on said sleeve normally holding said segmental cone elements in



frictional engagement and providing a resilient bearing and transmission for the wheel rim, substantially as set forth.

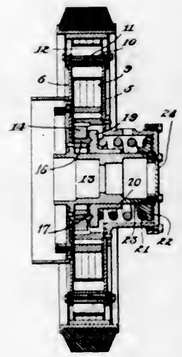
1,477,910. RESILIENT TRANSMISSION AND BEARING. BENJAMIN F. SEYMOUR, Washington, D. C. Filed June 7, 1919. Serial No. 302,416. 3 Claims. (Cl. 152—45.)



1. In a combined resilient bearing and transmission for vehicle wheels the combination of a hub member, a wheel rim mounted to have limited radial movement on the hub member, a sleeve mounted to have axial movement on said hub member, said sleeve and wheel rim having respectively a plurality of cooperable and annularly arranged segmental cone elements, and a spring carried by the sleeve normally holding said cone elements in engagement and providing the bearing and drive, substantially as set forth.

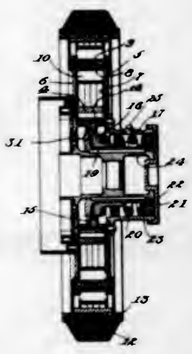
1,477,911. RESILIENT TRANSMISSION AND BEARING. BENJAMIN F. SEYMOUR, Indianapolis, Ind. Filed Sept. 9, 1919. Serial No. 322,627. 2 Claims. (Cl. 152—45.)

1. In a combined resilient bearing and drive for vehicle wheels the combination of a hub member, a wheel rim mounted to have limited radial movement thereon, said rim provided with a separate central portion disposed in bearing relation to one side of the hub, a sleeve mounted to have axial movement on said hub member, cone heads mounted on the said central portion of the rim, said sleeve having cone recesses engaged by said cone



heads, and a spring mounted on the hub and sleeve holding said cone elements in engagement, substantially as set forth.

1,477,912. RESILIENT TRANSMISSION AND BEARING. BENJAMIN F. SEYMOUR, Washington, D. C. Filed Oct. 13, 1919. Serial No. 330,374. 5 Claims. (Cl. 152—45.)

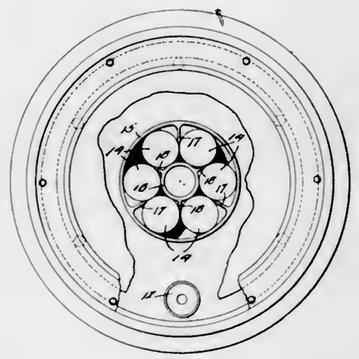


1. In a combined resilient bearing and drive for vehicle wheels the combination of a hub member, a wheel rim mounted to have limited radial movement thereon, a bearing sleeve and a driving and bearing sleeve mounted for opposed axial movements on said hub, said sleeve elements mounted on opposite sides of the wheel rim, said wheel rim and driving sleeve having co-acting driving and bearing elements, and resilient means normally holding said sleeves in engagement with the rim, substantially as set forth.

1,477,913. COMBINED RESILIENT BEARING AND DRIVE. BENJAMIN F. SEYMOUR, Indianapolis, Ind. Filed Mar. 22, 1920. Serial No. 367,713. 1 Claim. (Cl. 152—43.)

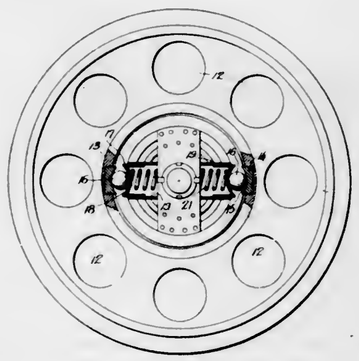
In a resilient wheel having side plates and an inner rim portion, the combination of a plurality of independent and resilient cylindrical blocks located between said side plates and extending radially from the axle

spindle of the wheel to said inner rim portion, said resilient blocks having their axes disposed parallel with the wheel axis, rigid and radially disposed members on said rim portion engaging between the respective



pairs of blocks, and rigid and radially disposed members on the spindle engaging between the respective pairs of said blocks and alternating with the radial members on the rim portion and cooperable therewith to provide a drive, substantially as set forth.

1,477,914. VEHICLE BODY SUSPENSION. BENJAMIN F. SEYMOUR, Washington, D. C. Filed Dec. 14, 1920. Serial No. 430,693. 3 Claims. (Cl. 152—45.)



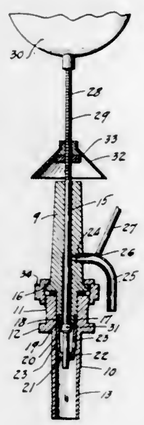
1. In a combined resilient bearing and drive for vehicle wheels, the combination of a hub portion having side plates, a rim portion mounted to have limited radial movement between said side plates, radially disposed telescoping devices mounted on the hub between said side plates, tensioning devices associated with said telescoping devices respectively, said telescoping devices and the wheel rim portion constructed with cone elements, and spherical members interposed between said cone elements, substantially as set forth.

1,477,915. WHEEL. BENJAMIN F. SEYMOUR, Indianapolis, Ind. Original application filed July 20, 1918. Serial No. 245,857. Divided and this application filed Mar. 22, 1921. Serial No. 454,349. 8 Claims. (Cl. 301—63.)



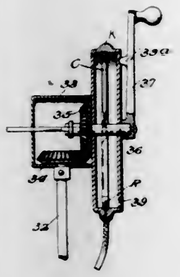
8. A wheel structure comprising a pair of discs having parallel corrugations, and a pair of flat discs located externally of and secured on either side thereof, substantially as set forth.

1,477,916. SUPPLY VALVE FOR FLUSH TANKS. JAMES M. SIKES and CLEMENT ELMORE, Durham, N. C.; said Elmore assignor to said Sikes. Filed May 24, 1922. Serial No. 563,253. 2 Claims. (Cl. 137—104.)



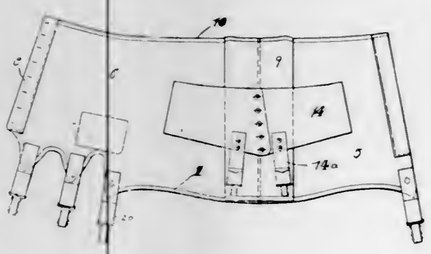
1. A flush tank valve comprising a sectional valve casing, one section of said casing having its lower end reduced and provided with a valve seat on the reduced end, a valve cage carried by said reduced end, a valve stem slidable in said section and the cage, a valve carried by the valve stem within the cage and adapted to engage the valve seat, a float carried by the opposite end of the stem, the remaining section of said casing being engaged with the reduced end of the first mentioned section, and means for coupling said sections to each other and the last mentioned section to a flush tank.

1,477,917. CIRCUIT CONTROLLER. FRANK MICHEL SMITH, Bend, Oreg. Filed Sept. 9, 1920. Serial No. 409,150. 3 Claims. (Cl. 200—6.)



1. A circuit controller comprising a ring, formed of insulating material, said ring being formed with recesses on one side thereof and diagonally arranged slots on its inner periphery, a conducting plate secured to the ring and including segmental contacts disposed within said recesses, and a contact arm urged to a medial position with respect to the sides of said contact ring.

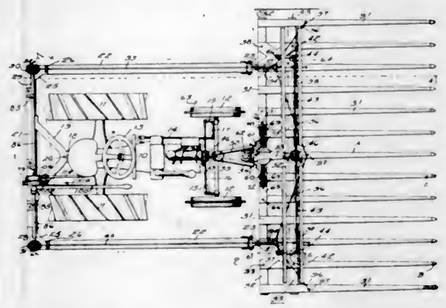
1,477,918. ABDOMINAL BAND. ANNA SPILMAN, New York, N. Y. Filed July 7, 1922. Serial No. 573,314. 1 Claim. (Cl. 2—73.)



An abdominal support comprising two substantially wide sections of unequal length having fastening means at their free ends for connecting the same to one side of the medial line of the support, a strip extending from the top and bottom connecting said sections at their inner ends, lacing for adjusting said strip and the sections, stiffening members within the ends of the sections and outside of the strip, and a substantially wide body band of a length less than the connected sections, said band being attached to the inner side of the connected ends of the sections and intermediate the top and bottom thereof, said band being adjustable with the strip when the lacing is drawn taut or loosened.

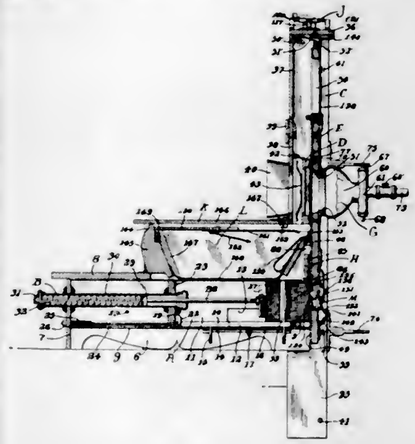
1,477,919. SWEEP RAKE FOR TRACTORS. BURTON A. SPINNEY, Des Moines, Iowa. Filed July 29, 1920. Serial No. 399,680. 14 Claims. (Cl. 56—27.)

1. The combination of a motor driven vehicle having a steering mechanism thereon and a wheel supported sweep rake, means for connecting said vehicle with the sweep rake, and means for steering said sweep rake and said vehicle for causing the steerable wheels of the vehicle and the wheels of the sweep rake to be steered



in unison, said first means being positioned midway between the pair of steerable wheels of the vehicle and the pair of steerable wheels of the sweep rake.

1,477,920. PHOTOGRAPHIC-PRINTING PRESS. HARRY BARTON STEWART, Lynn Creek, British Columbia, Canada, assignor of one-third to Walter H. Davison, Lynn Creek, British Columbia, Canada. Filed Jan. 29, 1921. Serial No. 440,964. 19 Claims. (Cl. 95—75.)

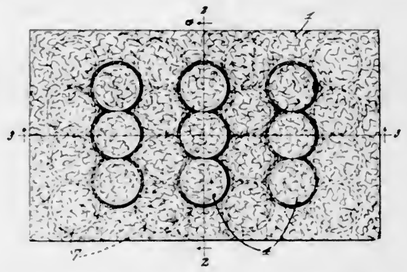


1. In a photographic printing machine, a print frame, a roller disposed on each side of the print frame for the reception of a film strip, means for actuating one of said rollers for feeding the film strip across the print frame, a slide plate for carrying printing paper to the print frame and film strip, and means for operatively connecting the operating means of the slide plate, and the operating means for the said roller together to permit the synchronous operation thereof.

1,477,921. FRUIT CARRIER. HARRY JAY THOMPSON, San Francisco, Calif., assignor to National Fibreform Company, San Francisco, Calif. Filed Aug. 2, 1921. Serial No. 489,249. 2 Claims. (Cl. 217—26.5.)

1. A container for fruit comprising superposed molded mats arranged in pairs, each pair having recesses in one face formed in series, the recesses of each series communicating, one mat of each pair being inverted

so that the recesses in the mats of each pair will match, there being protuberances upon each mat produced by the formation of the recesses, the protuber-

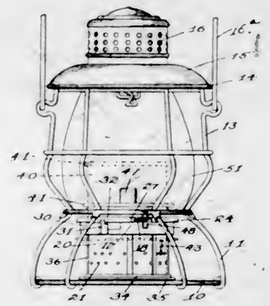


ances on each mat resting flat on the mat of the next adjoining pair and between but out of contact with the walls of the protuberances on said adjoining pairs of mats.

1,477,922. TREATING MAGNESIUM AND ALLOYS COMPRISING THE SAME. EMIL WOLLNER, Schwanheim-on-the-Main, and FELIX THOMAS, Frankfort-on-the-Main, Germany, assignors to the Firm: Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Filed May 25, 1922. Serial No. 563,718. 14 Claims. (Cl. 148—7.)

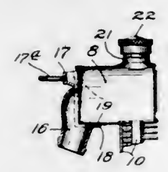
1. The method of rendering metal containing magnesium resistive against atmospheric influences, consisting in forming on the metal a protective layer of a magnesium salt of an acid capable of forming a soap.

1,477,923. SIGNAL LANTERN. WILLIAM ALBERT WELTON, Little Rock, Ark., assignor of one-third to Frederick E. Farley and one-third to Charles Philip Waters, both of Little Rock, Ark. Filed Aug. 7, 1922. Serial No. 580,171. 3 Claims. (Cl. 240—39.)



1. In a lantern of the character described, a supporting frame having a hood and a handle, a globe supporting annulus disposed intermediate the top and bottom of the frame, a font holding casing having its upper end flanged to surround the annulus and formed at intervals with bayonet slots, the annulus having outwardly projecting pins engaging in said slots and the casing having a latch engaging one of said pins to hold the casing from rotation, the lower end of the casing having an upwardly projecting circular wall inward of but concentric to the casing wall and formed with a bayonet slot, a font detachably mounted in the casing and having a burner, and a wick adjusting device, the font at its lower end having a pin engageable with the bayonet slots of said wall.

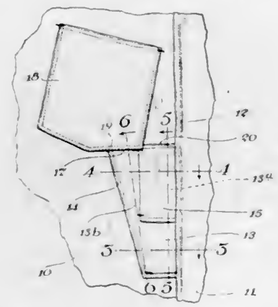
1,477,924. UPPER HOSE CONNECTION FOR RADIATORS. MEINHARD WITTE, Minneapolis, Minn. Original application filed Oct. 11, 1920, Serial No. 416,083. Divided and this application filed May 8, 1922. Serial No. 559,353. 4 Claims. (Cl. 137—75.)



1. An upper hose connection for the upper tanks of radiators having a tie-rod-bracket formed rigid therewith.

3. An upper hose connection for the upper tanks of radiators, in the form of a tubular elbow having an outstanding flange extending vertically and horizontally for engagement with the back and bottom of the upper tank, the vertical portion of said flange having a laterally offset upper end extension that affords a tie-rod-bracket and is perforated for connection to the front end of a radiator tie-rod.

1,477,925. OVERALLS. CHARLES R. WOOD, Fargo, N. Dak. Filed Sept. 13, 1922. Serial No. 588,015. 4 Claims. (Cl. 2—134.)

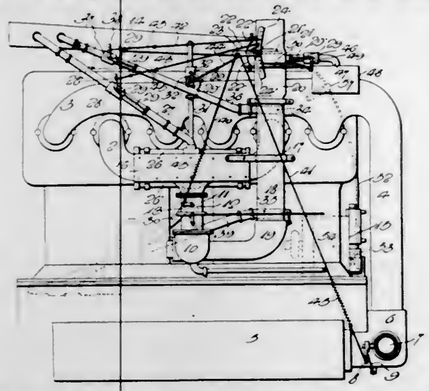


1. The combination with a garment of the class described, of a piece of material secured at its edges to the garment and combining therewith to form a pocket, said piece having a vertical slit opening through the upper edge thereof and affording access to the pocket, strips of material secured to said piece at the edges of said slit and having their free edges folded back upon the material at opposite sides of the slit and secured to the material at its edges, one of said strips being disposed upon the outer face of the piece of material and having its bottom edge secured to the piece whereby to form a pocket open at its upper end, one of said pieces extending over said slit to thereby form a pocket flap.

1,477,926. MOTOR CONTROL. FRED E. ANDERSON, Osage City, Kans. Filed June 28, 1921. Serial No. 481,091. 7 Claims. (Cl. 123—97.)

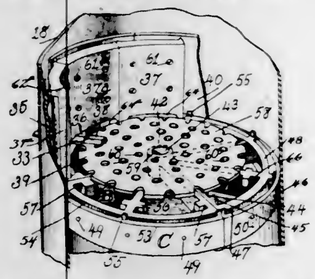
1. The combination with a motor, of an air feeding heating attachment for the carbureter, an inwardly opening valve for the air heater, a gas heating intake manifold, heating coils for the air heater and gas heating intake manifold pipes connecting the coils with the water manifold of the motor and provided with nor-

mally open valves, and connections between the valves of the water pipes and air heater whereby the supply of heating water to the coils may be cut off when



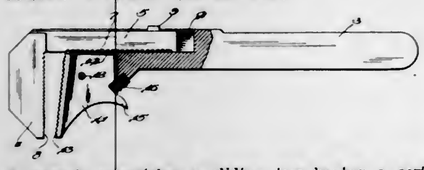
the load of the motor increases and the valve of the air heater moves inwardly to admit cool air to the air heater.

1,477,927. DOWNDRAFT FURNACE. ALVIN R. ATTEBERRY, Springfield, Ill. Filed June 6, 1921. Serial No. 475,325. 3 Claims. (Cl. 126—151.)



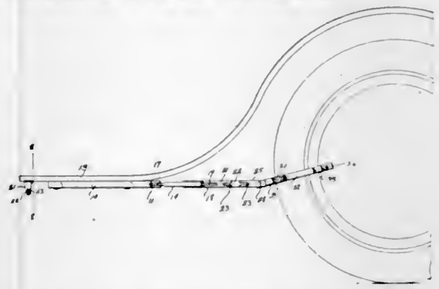
1. A ring-structure for furnaces comprising separable sections, each section having an outer rim, an inner rim, arcuate slots between said rims, and relatively short slots adjacent to the inner rim; in combination with a drum supporting said ring-structure; a lining supported on the outer rim of the ring-structure; and fire-bowl sections supported on the inner rim of the ring-structure and engaged in the relatively short slots thereof to prevent said fire-bowl sections from obstructing the arcuate slots of said ring-structure.

1,477,928. WRENCH. LAUREL LEE BAILEY, Terre Haute, Ind., assignor of one-half to Russell G. Hall, Terre Haute, Ind. Filed May 29, 1922. Serial No. 564,427. 1 Claim. (Cl. 81—147.)



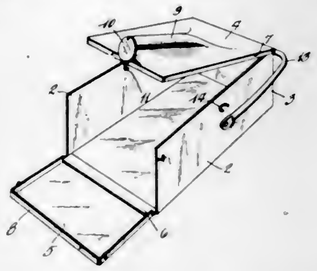
A wrench comprising a sliding jaw having a series of notches, a pivoted jaw having a single ing for movement into and out of engagement with said notches, a spring exerting pressure upon the pivoted jaw in a direction to swing same around its pivot and bring the lug out of engagement with the notches and a trigger projecting from the pivoted jaw at a point adjacent said spring so that when pressure is brought to bear upon said trigger the spring will be sprung and the lug thrown into engagement with one of said notches.

1,477,929. AUTOMOBILE WHEEL LOCK. HARRY BARNETT, Helena, Mont. Filed Nov. 15, 1922. Serial No. 601,113. 5 Claims. (Cl. 188—31.)



1. Means for locking automobile wheels comprising a supporting member adapted to be attached beneath the running board of the machine, a wheel rim and tire embracing member including pivoted jaws, and means for locking them clamped upon a tire and wheel rim, and a plurality of pivoted sections, one of said sections being pivoted to the supporting member and the section at the opposite end being pivoted to the jaws, two of said sections overlapping each other and having sliding engagement with each other.

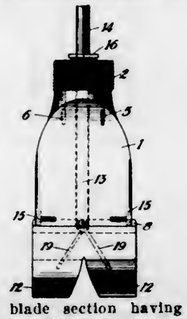
1,477,930. DUSTLESS CARRIER. FRANK K. BARTHOLOMEW and JOSEPH A. RAMAGE, McGregor, Iowa. Filed Nov. 17, 1922. Serial No. 601,530. 3 Claims. (Cl. 220—32.)



1. A device of the character described comprising a substantially rectangular receptacle having a flat bottom, side walls and a closed end wall, a swinging end wall pivoted at one end of the receptacle, and a single flanged cover hingedly connected to the closed end wall of the receptacle and adapted to engage over the side walls and swinging end wall when in closed position, and a discharge spout formed in said cover.

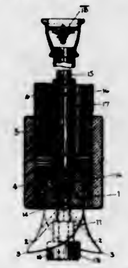
1,477,931. DRILL BIT. SAMUEL F. BASHARA and CHARLES PAGGI, Houston, Tex., assignors to Texas Reclaim Oil Association, Houston, Tex., a Joint Stock Association. Filed Nov. 4, 1919. Serial No. 335,674. 4 Claims. (Cl. 255—61.)

1. A drill bit, including a shank whose lower end is provided with a transverse dovetailed groove, said shank having a bore extending from the upper to the lower end thereof, a blade section whose upper end is formed with a transverse rib to conform in shape to and fitting in



said groove, said blade section having ducts leading downwardly therethrough, which form a continuation of the bore of the shank.

1,477,932. DRILL BIT. SAMUEL F. BASHARA and JOSEPH F. BASHARA, Houston, Tex. Filed Feb. 16, 1920. Serial No. 359,131. 4 Claims. (Cl. 255—61.)



1. The combination with a drill bit having a central bore, and whose upper end is formed into a reduced threaded neck and whose lower end has oppositely curved blades, of a pilot drill attached to the lower end of said bit and having a central bore which aligns with the bore of the bit and a tubular liner extending through said bores and whose lower end rests upon the upper end of said drill.

1,477,933. COMBINATION DRILL BIT AND CORE-TAKING DEVICE. SAMUEL F. BASHARA, Houston, Tex. Filed Sept. 14, 1920. Serial No. 410,163. 13 Claims. (Cl. 255—72.)



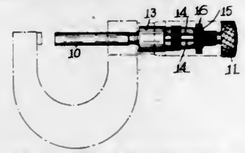
1. A drill bit including a shank whose lower end is formed with a transverse groove, a blade section whose upper end is formed with a transverse rib formed to fit into the groove, said blade section having radiating cutting blades, and a pilot bit detachably secured to, and depending from the blade section.

1,477,934. HEADGEAR. MALLY PEABODY BEACH, Ridgefield, Conn. Filed Nov. 23, 1922. Serial No. 602,755. 1 Claim. (Cl. 2—108.)



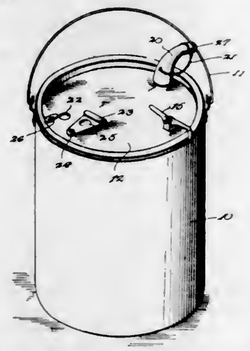
As a new article of manufacture, a head gear comprising a cupped crown-piece and a flexible band having its greatest width at the front and tapering to a narrower width at its back, the outer edge of the band portion being seamed to the outer edge of the crown-piece throughout its length, and the band portion and crown piece being also seamed to each other by a seam spaced from said edge and also spaced from the inner edge of said band; the inner edge of the band being free from the cup crown piece to form a rearwardly tapered forehead and head side engaging portion for holding the head gear in place; and the second mentioned seam forming a fulcrum line about which the outer portions of the head gear may swing.

1,477,935. ADJUSTABLE NUT FOR MICROMETERS. EMIL G. BERG, Ashburnham, Mass., assignor of one-half to Carl Hedstrom, Gardner, Mass. Filed Feb. 14, 1922. Serial No. 536,543. 1 Claim. (Cl. 33—164.)



In a micrometer having a micrometer screw, and adjustable cylindrical nut for said screw, said nut having one end slotted to form relatively wide and relatively narrow axially extending portions, certain of said narrow portions being bent inward from normal position and exerting yielding pressure upon the micrometer screw, whereby substantially uniform resistance to rotation thereof is attained.

1,477,936. LID FOR CANS. EDWARD C. BOTT, Bienville, La. Filed Oct. 2, 1922. Serial No. 591,867. 5 Claims. (Cl. 220—24.)



1. The combination with a can having an opening; of a lid fitting tightly in said opening, an annular flange on said lid partly covering the top of the can, a spout

on said lid communicating with the interior of the can and a door journaled on the lid and adapted to cover a vent opening provided on the lid, said door having a dent fitting said vent opening.

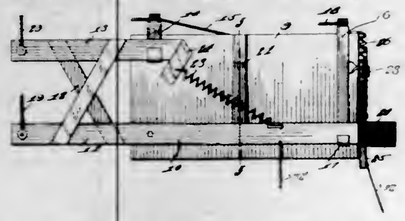
1,477,937. [WITHDRAWN.]

1,477,938. FLUID COMPOSITION FOR COMPOUNDING, IMPREGNATING, AND COATING. REGINALD PERCY LEOPOLD BRITTON, London, England, assignor to Griffiths Bros. & Company London Limited, London, England, a British Limited Liability Company. Filed Aug. 24, 1922. Serial No. 584,140. 12 Claims. (Cl. 134—1.)

5. The process which comprises coating a solid body with an irreversible alkaline silicic acid sol compounded with a solid pigment and then effecting deposition of the pigment and of silica from the sol in an insoluble form upon the solid.

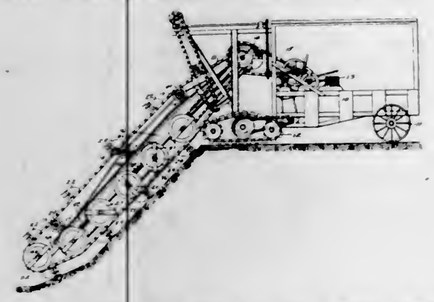
6. The process which comprises bringing an irreversible alkaline silicic acid sol into contact with a solid and effecting the deposition of insoluble silica upon the substance of the solid by the action of heat.

1,477,939. TELEPHONE-CIRCUIT BREAKER. WILLIAM A. BROCKMEIER, Yuma, Colo. Filed Aug. 7, 1922. Serial No. 580,248. 3 Claims. (Cl. 200—49.)



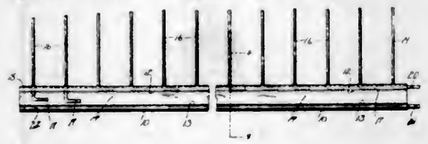
1. A circuit breaker including a pivoted contact arm, a switch arm having a hook formed at one end thereof to accommodate the contact arm to normally complete a circuit through the switch arm, means for moving the contact arm to its inactive position, and a circuit grounding arm adapted to automatically move to its active position to ground the circuit.

1,477,940. SIDE CUTTER FOR TRENCHING MACHINES. ROBERT BROWN, Newton, Iowa, assignor to The Parsons Company, Newton, Iowa. Filed Apr. 12, 1923. Serial No. 631,616. 6 Claims. (Cl. 37—86.)



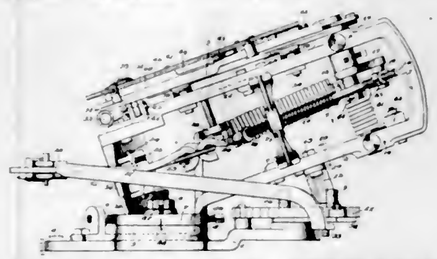
1. In a machine of the class described, a frame, a drive shaft thereon, a boom pivoted on said drive shaft, a journal at the free end of the boom, a shaft in said journal, sprockets on said shafts a chain and bucket excavating mechanism arranged to travel on said sprockets, a plurality of shafts on said boom, all of said shafts, except the drive shaft being removable for substituting other shafts of different lengths, detachable cutter devices on the ends of said plurality of shafts, and means for driving said plurality of shafts successively from the drive shaft and from each other.

1,477,941. BIRD CAGE. ALFRED CHADWICK, New Haven, Conn., assignor to The Andrew B. Hendryx Co., New Haven, Conn., a Corporation. Filed July 24, 1923. Serial No. 653,472. 2 Claims. (Cl. 119—17.)



1. In a bird cage, the bottom rail thereof comprising a strip of metal, a rod around which one edge of the metal is folded, the other edge having a perforated flange, cage wires extending through said perforated flange and formed with bends adapted to rest within said flange, the bend of one wire projecting beyond one end of the rail, and one end of the rod also projecting beyond the same end of the rail, both projections forming dowels, the other end of the rail provided with sockets adapted to receive said dowels.

1,477,942. CLAY-PIGEON TRAP. CHARLES O. CAROTHERS, Kenton, Ohio. Filed Oct. 24, 1922. Serial No. 596,631. 42 Claims. (Cl. 124—6.)



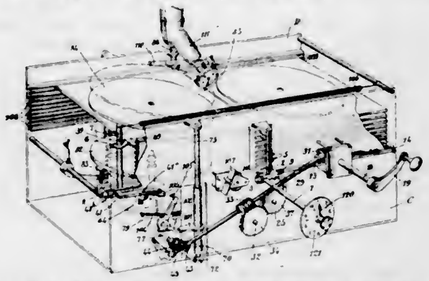
1. A clay pigeon trap comprising a target carrier, means to move the carrier into a discharging position, and means extending over the carrier while in the loading position to retain a target on the carrier until the carrier has moved away from said means in passing to the discharging position.

1,477,943. EGG BEATER. WILLIAM W. CROCKER, Salina, Kans. Filed Sept. 19, 1923. Serial No. 663,678. 8 Claims. (Cl. 259—131.)



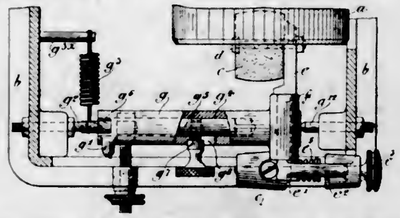
1. In an egg beater, a length of wire material bent to provide a body portion and a handle portion, beating members mounted to rotate on the body portion, said beating members having flanges providing teeth and a rack bar carried by the handle portion and adapted to move by the beating members to rotate the beating members.

1,477,944. PHONOGRAPH. CYRIL DE VERE, Paris, France, assignor to La Societe Des Phonographes Automatiques, Paris, France. Filed Dec. 28, 1920. Serial No. 433,733. 8 Claims. (Cl. 274—10.)



1. A magazine phonograph comprising a plurality of superposed disc-holding carriages, means for guiding said carriages horizontally, a vertically movable turntable, feeding means adapted to move any one of said carriages in said guiding means so as to bring a record disc over said turntable, selecting means for coupling the selected carriage to said feeding means, a sound reproducer located at the upper part of the phonograph, means for rotating the turntable, means adapted to lift the selected record disc, the turntable and its rotating means and hold the record disc in engagement with the reproducer, and automatic means for returning said turntable, said rotating means and said selected disc within its carriage to their position of rest when the playing of the record disc is over.

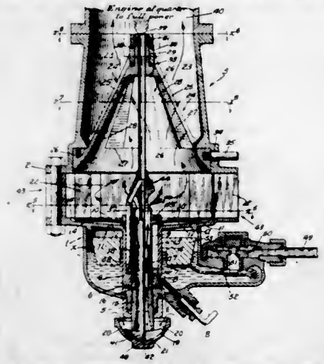
1,477,945. BEARING FOR SKIVING MACHINES. GEORGE H. DIEHL, Jr., New York, N. Y. Filed Nov. 26, 1921. Serial No. 517,902. 1 Claim. (Cl. 64—25.)



The combination of a frame, a shaft, pivot pins mounted adjustably in the frame for supporting the shaft, a longitudinally movable spindle carried by the shaft, and engaging one of said pivot pins, whereby, on withdrawing the spindle, the rock shaft is released from the pivot pins, and a locking pin in engagement with the spindle, the shaft being formed for engagement with the locking pin to permit longitudinal movement of the spindle and to secure the same in adjusted position with respect to the shaft.

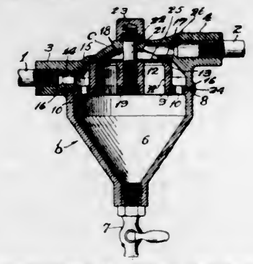
1,477,946. VORTEX-TYPE UPDRAFT CARBURETOR. ROY FRANCIS ENSIGN and ORVILLE H. ENSIGN, Pasadena, Calif. Filed Apr. 17, 1916. Serial No. 91,809. 8 Claims. (Cl. 261—41.)

1. A carburetor comprising proportioning means consisting of a mixing chamber of circular form; an aspirating tube extending from below and projecting upwardly into the center of the mixing chamber and adapted to supply air and fuel to said mixing chamber above the bottom thereof; means for supplying liquid fuel to the aspirating tube below the level of the bottom of the mixing chamber; unrestricted fixed non-regulable means for introducing air tangentially to the periphery of the circular mixing chamber so as to produce a violent whirl through the



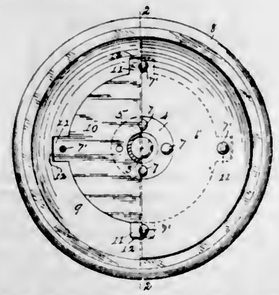
mass of air in the mixing chamber, thereby producing a vortical pressure-drop at the center of said chamber to cause air and fuel to be lifted into said chamber through the aspirating tube.

1,477,947. FUEL CLEANER. ROY FRANCIS ENSIGN, Pasadena, Calif. Filed Apr. 15, 1919. Serial No. 290,318. 13 Claims. (Cl. 210—165.)



2. A trap comprising a settling chamber at its lower portion, a distributing chamber and an intermediate passage above the settling chamber at its upper portion; an inlet port communicating with the distributing chamber; an outlet port communicating with the intermediate passage near the top thereof, and a screen between the intermediate passage and the outlet port; said screen being adapted and arranged to allow air to flow edgewise of the screen from the distributing chamber to the outlet port.

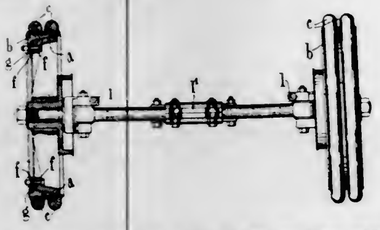
1,477,948. VEHICLE WHEEL. SAMUEL L. GREENE, Waterbury, Conn. Filed Aug. 5, 1922. Serial No. 579,931. 5 Claims. (Cl. 301—63.)



1. A vehicle wheel comprising a hub; clamping members oppositely disposed on said hub and drawable there-

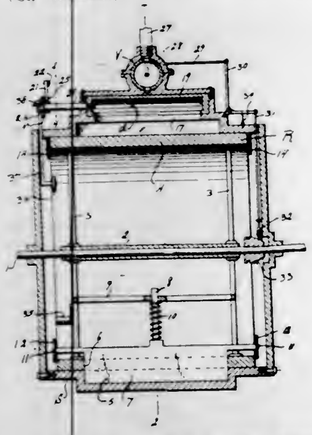
on, one in the direction of the other for a clamping effect therebetween; a tire assembled peripherally with said clamping members and adapted to receive a clamping effect therefrom, upon the same being duly drawn together; a tire anchor disposed on said hub between the clamping members and interengaging the tire aforenamed; and means for duly drawing together the clamping members and holding the same, together with said tire anchor, jointly in fixed relation to the hub aforenamed.

1,477,949. VEHICLE. FREDERICK P. GRIFFITH, JAMES LINDSAY, and HOWARD GRACE GROGHEGAN, Dublin, Ireland. Filed Oct. 5, 1923. Serial No. 666,828. 2 Claims. (Cl. 295—8.5.)



1. A vehicle including a set of wheels, each wheel including a fixed metallic rim of substantial width and coned so that the smaller diameter is positioned at the outside, interchangeable tire carrying and rail engageable metallic rims removably arranged in intimate contact with the metal rims of the wheels, and means for detachably fastening either set of the tire carrying and rail engaging rims to the fixed rims of the wheels.

1,477,950. ROTARY ENGINE. EARL C. GROVES, Hobson, Mont., assignor of one-third to Waite Land and Livestock Company, Utica, Mont., a Corporation of Montana, and one-third to J. E. Lane, Lewistown, Mont. Filed May 25, 1921. Serial No. 472,440. 1 Claim. (Cl. 120—90.)

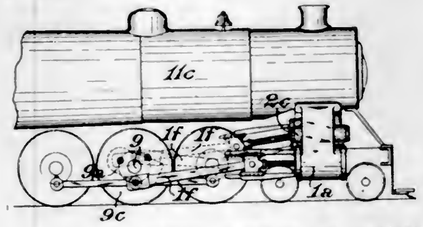


In a rotary engine embodying a casing having a stationary abutment and a rotor having a sliding piston, ports in the casing communicating with the interior of the casing on either side of the stationary abutment with a common expansive fluid inlet and with the atmosphere, a valve in each of said ports movable to connect the interior of the casing with the expansive fluid inlet or with the atmosphere, said valves being reversely disposed, means for simultaneously shifting said valves to reverse the port connections thereof, a member intermittently reciprocated during the operation of the engine, and an operating arm for each of said valves and lying in the path of said member when its associated valve is in position to connect the interior of the casing with the expansive fluid inlet, the member contacting with an arm to oscillate the second valve independently of the reversing means.

1,477,951. METHOD OF REGENERATING MERCURY CATALYST. NATHAN GRÜNSTEIN, Frankfort-on-the-Main, Germany. Filed Mar. 16, 1920. Serial No. 366,237. 10 Claims. (Cl. 204—9.)

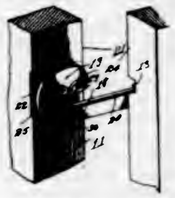
1. In the production of acetaldehyde from acetylene in acid solution by means of catalytically acting mercury salts, the process of adding to the acetylene approximately 4–40% of oxygen and conveying the acetylene-oxygen-mixture through the reaction liquid, whereby the catalytic activity of the mercury salts is prolonged without noticeable action of the oxygen upon the acetaldehyde.

1,477,952. LOCOMOTIVE. ROBERT F. HALL, Schenectady, N. Y. Filed Feb. 21, 1923. Serial No. 620,428. 3 Claims. (Cl. 105—37.)



1. In a single-expansion locomotive, the combination of a cranked driving axle; end crank arms, fixed thereon, at an angle less than 120 degrees; a central cylinder and two outside cylinders, the capacity of the central cylinder being less than that of either of the two outside cylinders; and connections, coupling the pistons of said cylinders to the crank arms of the driving axle.

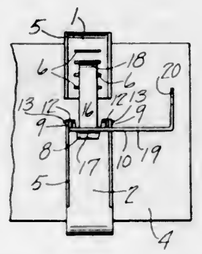
1,477,953. STORM-SASH HANGER. ATHOL B. HAYS, Bucyrus, N. Dak. Filed Apr. 12, 1923. Serial No. 631,677. 5 Claims. (Cl. 16—172.)



1. The combination with a window-frame and sill, and a storm sash associated therewith, of upper and lower slotted hangers carried by the window-frame, means on the sash for supporting engagement on the hangers and movement toward and away from the window-frame, and means on the sash and cooperating with the sill for holding the sash in open and closed positions.

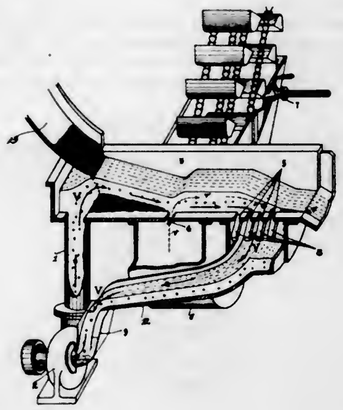
1,477,954. ADJUSTABLE SHADE HOLDER. EDWIN G. HEATH, Concord, N. H. Filed Dec. 1, 1922. Serial No. 604,216. 7 Claims. (Cl. 156—24.)

1. An adjustable shade holder for a window casement, comprising an upper jaw and an off-setting lower jaw, adapted to grip the upper and lower edges of the upper facing strip of the casement, the upper jaw having a series of transverse slots therein as hook holds, and the lower jaw having a crotch at its upper end and side ears thereat; a lever bracket adapted at its lower end to support an end of a shade roller, and having a crotch at its upper end, a transverse slot immediately below the



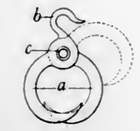
crotch, and side ears at the crotch nested and pivoted into the side ears of the lower jaw; and a connecting link having its lower end hinged through the slot of the lever bracket and its upper end formed into a hook adapted to releasably engage the upper jaw through any one of the slots thereof.

1,477,955. APPARATUS FOR WASHING COAL AND THE LIKE. RENÉ AUGUSTE HENRY, Liege, Belgium. Filed Dec. 31, 1919. Serial No. 348,672. 1 Claim. (Cl. 83—82.)



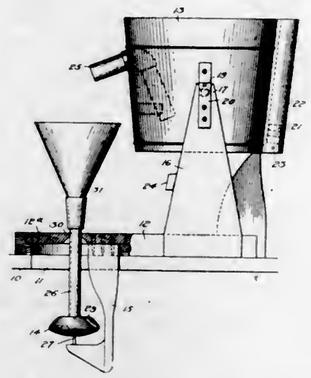
A gravity separation apparatus, comprising, a horizontal trough traversed by a main current of water circulating in a closed circuit, means for introducing material to be treated into said current, a plurality of openings at the bottom of the said trough for the discharge, first, of the heavier particles of said material out of the closed circuit, second, of the lighter particles of said material out of the closed circuit, and third, of the main current and the remaining non-separated part of said material, and a centrifugal pump in the closed circuit and having its inlet opening partly submerged in the circulating current whereby to simultaneously suck in air, material and water.

1,477,956. CURTAIN SUSPENDER. JOSEPH RICHARD EWART HESELTINE, Birmingham, England, assignor to Richard Arthur Taunton, Hawkinge, Kent, England. Filed Jan. 11, 1922. Serial No. 528,533. 1 Claim. (Cl. 156—21.)



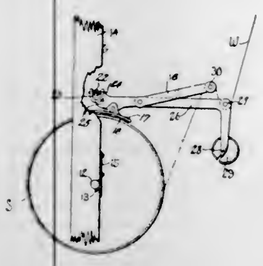
A curtain suspender including a flat sheet metal jaw member having opposite plane side surfaces parallel from end to end, the intermediate portion of said member being of enlarged area to form a pivot receiving body, one end portion of the member being shaped to form a hook and the other end portion being shaped to form a claw terminating in a sharp point adapted to readily penetrate a curtain, the claw being of arc shape and extending greater than a semicircle, a second flat sheet metal member having plane opposite side surfaces parallel from end to end, one of the plane surfaces of the first member abutting against one of the plane surfaces of the other member, a portion of the second member being of enlarged area to form a pivot receiving body, said second member also having a portion shaped to form a claw terminating in a sharp point adapted to readily penetrate a curtain, the last mentioned claw being of arc-shape and extending greater than a semicircle, a pivot pin connecting the body portions of said members and permitting angular movement of the members independently of one another, and the pointed ends of the claw portions extending in opposite directions and being inturned and upwardly recurved so as to pierce and grip between them the fabric of the curtain.

1,477,957. APPARATUS FOR THE MANUFACTURE OF VINEGAR. CLAUDE L. HINKLE, Winchester, Va. Filed Mar. 17, 1923. Serial No. 625,835. 10 Claims. (Cl. 99—17.)



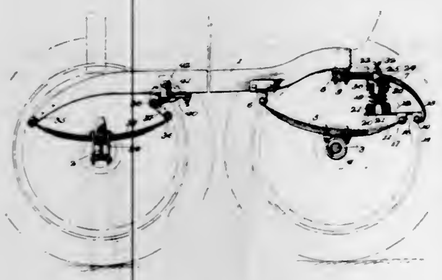
1. In an apparatus such as described, the combination of a base adapted to rest on the generator top, a measuring tank, a diffuser carried by the base beneath the latter and adapted to distribute the mix over the generator filling, and means carried by the base for delivering the mix from said tank to the diffuser, said base together with said diffuser and delivering means being removable from the generator as a unit.

1,477,958. SPOOL TENSION DEVICE. ELBRIDGE R. HOLMES, Worcester, Mass., assignor to Crompton & Knowles Loom Works, a Corporation of Massachusetts. Filed Nov. 15, 1922. Serial No. 601,148. 5 Claims. (Cl. 188—83.)



1. A spool tension device comprising a pair of friction members, a frame on which said members are mounted in spaced relation, and means to support said frame for free pivotal movement about two different axes disposed substantially perpendicular to each other.

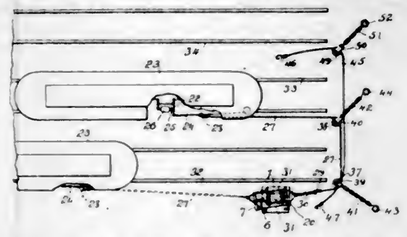
1,477,959. SHOCK ABSORBER. ROBERT D. HUGHES, Lynchburg, Va. Filed Oct. 4, 1922. Serial No. 592,354. 6 Claims. (Cl. 267—17.)



1. In a spring suspension for vehicles, a semi-elliptic spring, a cantilever spring, a lever mounted intermediate its ends on one end of the semi-elliptic spring, one end of the lever being pivotally connected to the free end of the cantilever spring, a socket on the other end of the lever, a coil spring having one end seated in the socket, a yoke straddling a resilient portion of the cantilever spring, a socket member suspended from the yoke, with the other end of the coil spring mounted in the socket member, and a clamping means on the yoke engaging the cantilever spring for locking the yoke in position on the cantilever spring.

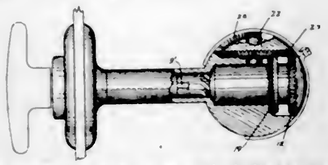
1,477,960. BRAKE-TESTING MECHANISM. CHARLES B. HUTCHISON, Kansas City, Kans. Filed Feb. 28, 1921. Serial No. 448,421. 6 Claims. (Cl. 265—14.)

1. In a brake testing mechanism, a fixed anchoring means, flexible means arranged for releasable attachment to a movable part of a car brake operating means, and means revoluble on a vertical axis on said anchoring



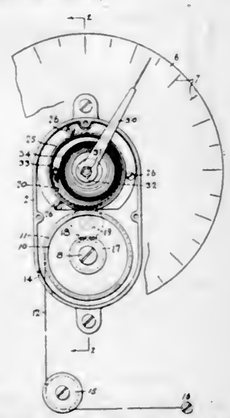
means by which a pulling strain may be applied to said movable part, substantially as set forth.

1,477,961. SPOTLIGHT. FRANK A. KING, Englewood, Colo. Filed Mar. 18, 1922. Serial No. 544,912. 4 Claims. (Cl. 240—61.)



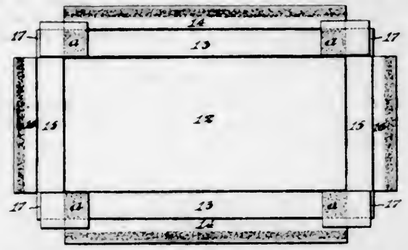
1. An adjustable light support including an operating shaft, a lamp, a ball and socket connection between the shaft and lamp, a sleeve mounted upon the shaft, a rotatable pinion carried by the ball, a rack carried by the socket, means forming connection between the shaft and sleeve whereby longitudinal movement of the shaft will impart rotary movement to the sleeve and additional means connecting the sleeve with the pinion whereby to rotate said pinion, imparting movement to the socket whereby to move the lamp, from any given point, in one plane and additional means forming connection between the socket and shaft whereby upon rotation of the shaft the lamp will be moved, from said point, in a plane at substantial right angles to said first mentioned plane.

1,477,962. INDICATOR. EDWARD F. KINZLER, Pittsburgh, Pa. Filed Mar. 30, 1922. Serial No. 548,178. 2 Claims. (Cl. 116—129.)



2. In an indicator, the combination with a suitable frame or casing, a rotary drum mounted therein, an indicator-shaft, a spring connected to said shaft, and to said drum, an indicator-hand on said shaft, and gearing connections between said drum and said shaft.

1,477,963. REENFORCED PAPER-BOX MEMBER. ELIE W. LABOMBARDE, Nashua, N. H. Filed Nov. 7, 1921. Serial No. 513,272. 5 Claims. (Cl. 229—49.)



1. A creased box member blank having reinforcing tabs located in positions crossing the crease lines and free to shift relatively to said lines when the blank is folded.

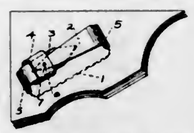
1,477,964. METHOD OF PRODUCING STOCK FEED FROM COARSE FARM PRODUCTS. ELMER A. LAUGHLIN, Oregon, Ill. Filed Nov. 6, 1922. Serial No. 599,451. 4 Claims. (Cl. 99—11.)

1. The process of reducing coarse farm products to stock feed which consists in subjecting the products, in a solution of diastase, through gradually reducing temperatures from a point below the boiling point of water, to a point suitable for stock consumption.

1,477,965. PROCESS OF MAKING SOLUTIONS CONTAINING SULPHURIC ACID AND FERRIC SULPHATE. EDMUND S. LEAVER, Tucson, Ariz., assignor of one-third to Charles E. van Barneveld, St. Louis, Mo., and one-third to Lawrence R. Eckman, Tucson, Ariz. Filed Mar. 29, 1922. Serial No. 547,825. 3 Claims. (Cl. 23—13.)

1. The process of making a solution containing sulphuric acid and ferric sulphate, which consists in subjecting material containing ferrous sulphate in the presence of water to the action of gases containing sulphur dioxide and oxygen.

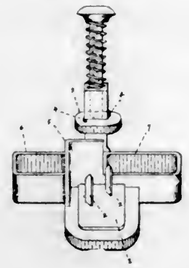
1,477,966. PAPER FASTENER. HERMAN A. LINDSTROM, Seattle, Wash. Filed Nov. 1, 1921. Serial No. 512,065. 2 Claims. (Cl. 24—153.)



2. A paper fastener, comprising a flat body having at one end a prong disposed at right angles to the body, at the other end a longer prong, disposed at right angles to the body and located oppositely of the first prong, provided with an integral point adjacent its pointed terminal and projecting outwardly, a slidable member mounted thereon having an interiorly located recess to engage said point, said member adapted to embrace the shorter prong, to cover the free end of the other prong and to lock therewith, when the fastener is in operative position.

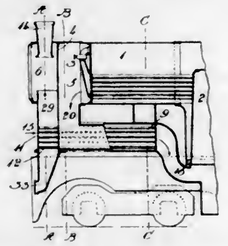
1,477,967. PUNCH FOR PAPER FASTENERS. HERMAN A. LINDSTROM, Seattle, Wash. Original application filed Nov. 1, 1921, Serial No. 512,065. Divided and this application filed Oct. 23, 1922. Serial No. 596,259. 1 Claim. (Cl. 164—94.)

A punch for paper fasteners, comprising a base, a pair of thin smooth-edged upstanding prongs, spaced apart and in diagonal relation with the base, a plunger operatively connected with the base, having at its lower terminal a member provided with a pair of openings adapted to receive the thrust of the prongs, and a gage



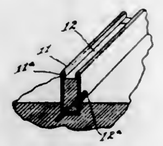
having a right angular recess in which to position and align sheets of paper for receiving pairs of corner perforations in uniform and diagonal relation with adjacent corner portions of said paper.

1,477,968. LOCOMOTIVE PROVIDED WITH TUBULAR AIR PREHEATERS. FREDRIK LJUNGSTRÖM, Lidingo-Brevik, Sweden, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden, a Corporation. Filed Aug. 21, 1922. Serial No. 583,453. 4 Claims. (Cl. 110—57.)



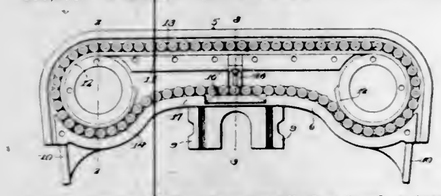
1. In locomotives and similar carriages the combination with a steam boiler, a smoke box arranged in front of the boiler and a tubular air-preheater, the tubes of which are situated in the longitudinal direction of the boiler, said air-preheater being arranged beneath the smoke box as well as beneath the boiler of a channel conducting waste gases from the boiler, the one end of said channel communicating with the smoke box, whereas the other end thereof communicates with that end of the air-preheater which is situated beneath the boiler.

1,477,969. WINDOW. EDMUND H. LUNKEN, Cincinnati, Ohio, assignor to The Lunken Window Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Jan. 3, 1921. Serial No. 434,586. 4 Claims. (Cl. 20—52.1.)



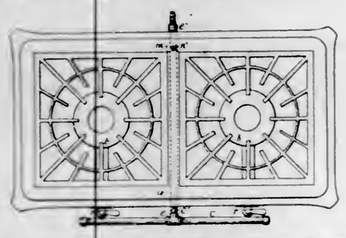
1. In a window, a parting bead between the sashes thereof, comprising a channel strip of metal, set into the window frame, and projecting therefrom and screws inserted at a slant through bored holes in the walls of said channel strip into the frame for retaining the strip removably in place.

1,477,970. CUTTER HEAD. CHARLES T. MCDANIEL, Sullivan, Ind. Filed Jan. 19, 1922. Serial No. 530,366. 8 Claims. (Cl. 262—29.)



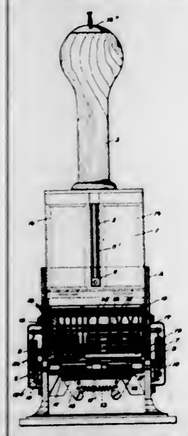
1. In a device of the class described, a head, a trackway carried by said head, an antifriction chain in said head and traveling upon said trackway, and a cutter chain resting upon said antifriction chain.

1,477,971. GAS HOT PLATE. HUGH J. MCGOWAN, Peekskill, N. Y., assignor to Southard Robertson Company, Peekskill, N. Y. Filed Apr. 5, 1922. Serial No. 549,756. 1 Claim. (Cl. 126—40.)



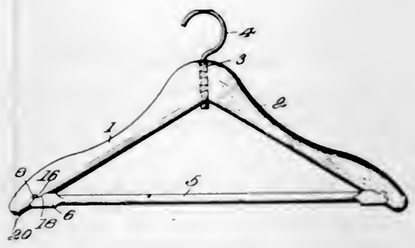
The combination in a hot plate with the frame of the hot plate, of a gas feed pipe extending from the rear to the front of the hot plate, the said supply pipe branching across the front of the hot plate said branches extending rearwardly to the burners, and a clamp hanger depending from the hot plate to secure and support the free end of the said gas supply pipe.

1,477,972. TIME STAMP. PAUL MANSEL, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Jan. 11, 1922. Serial No. 528,569. 4 Claims. (Cl. 234—5.)



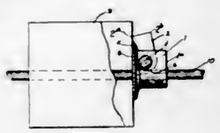
1. In a time-stamp the combination with a reciprocating stamping frame and time printing wheels mounted in said frame, of a base frame, an ink pad mounted in said base frame so as to be engaged by said time printing wheels when said stamping frame is moved downwardly and supporting means for said ink pad allowing a short parallel downward motion of the pad together with said time printing wheels to obtain a good inking of the printing types and hereupon a downward rotation of the ink pad to bring it out of the path of said downwardly moving stamping frame.

1,477,973. GARMENT HANGER. LOUIS M. MARBLE, Canton, Pa. Filed July 15, 1921. Serial No. 484,897. 3 Claims. (Cl. 211—13.)



1. A garment hanger comprising a shoulder form provided at points near the ends with irregularly shaped recesses extending inwardly from and at approximately right angles to the under edges of the form and a trouser bar having projections at its ends, the projections being complementary in size and shape to the recesses, permitting the lateral insertion of the projections into the recesses and holding the trouser bar against vertical displacement.

1,477,974. SELF-LOCKING CONCRETE-FORM CLAMP. AMBROSE LARKIN MOORE, New Orleans, La. Filed Nov. 22, 1922. Serial No. 602,593. 3 Claims. (Cl. 25—131.)



1. In a device of the class described, a clamp which locks itself to the tie member by the pressure of the form against one end of a pivoted lever whose other end presses against said tie member and retains grip on tie member until said lever is loosened.

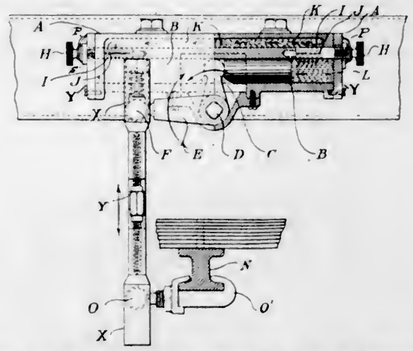
1,477,975. TAPE FOR WHEELS. JENS OLSON, Lewiston, Idaho. Filed Oct. 24, 1922. Serial No. 596,616. 2 Claims. (Cl. 91—68.)



1. A tape for wheel fellies comprising a body of canvas or other fabric impregnated with asphalt and asbestos.

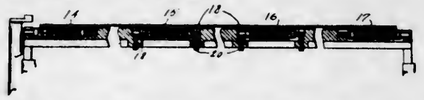
1,477,976. SHOCK ABSORBER. LESTER C. REED, New York, N. Y., assignor of one-half to Frank J. Feldman, New York, N. Y. Filed Feb. 8, 1923. Serial No. 617,855. 4 Claims. (Cl. 188—88.)

1. In a shock absorber the combination of a cylinder, a piston moving therein, a second cylinder and a second piston therein, a by-pass connecting the two cylinders, the two pistons mechanically connected together and articu-



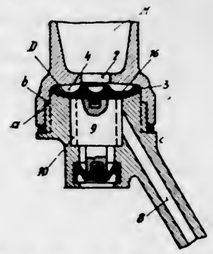
lated to the member whose shocks are to be absorbed and means located in the by-pass consisting of a rotatable plug provided with transverse orifices.

1,477,977. LOOM TEMPLE. WILLIAM W. ROBERTSON, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 6, 1922. Serial No. 541,329. 7 Claims. (Cl. 139—294.)



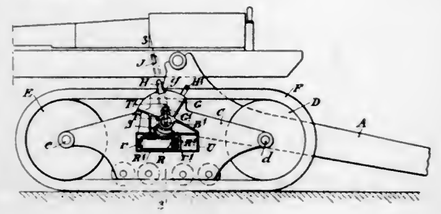
3. In a loom, a pair of temples engaging the under side of the fabric at the selvages thereof and additional temples engaging the under side of the fabric at intermediate points in the width thereof.

1,477,978. MILKING MACHINE. AXEL SABROE, Hadersiev, Denmark. Filed Apr. 20, 1923. Serial No. 633,498. 1 Claim. (Cl. 31—101.)



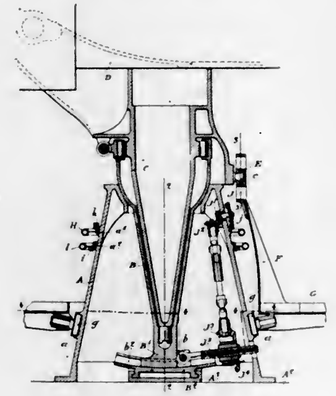
In a milking machine of the suction type, in combination, a milking cup, a cylinder in connection with the latter through a passage-way therein, a suction channel issuing from said cylinder, a plunger in said cylinder having longitudinal incisions therein in communication with said suction channel, a diaphragm in said chamber located to control said passage-way and acted upon by said plunger and having small holes therein in communication with said incisions, an upper and a lower annular inclined bearing surface for said diaphragm forming part of said milking cup and of said cylinder respectively, and means to securely hold said diaphragm in place at its thickened attachment border and to permit a free operation of the same within its working space bounded by said bearing surfaces, substantially as and for the purpose set forth.

1,477,979. APPARATUS IN AND RELATING TO TRAIL-CARRIAGE GUNS MOUNTED ON ENDLESS TRACKS FOR VARYING THE HEIGHT OF THE LINE OF FIRE OF THE GUN. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Stock Company of France. Filed Apr. 30, 1923. Serial No. 635,722. 10 Claims. (Cl. 89—40.)



10. In combination, an endless-track truck, an axle movably mounted on said truck, a device for imparting relative movements to said axle and truck, spring means for counter-balancing the load incident to said relative movements, and means for locking said counter-balancing means to the axle.

1,477,980. CENTRAL-PIVOT GUN CARRIAGE. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint Stock Company of France. Filed July 3, 1923. Serial No. 649,306. 10 Claims. (Cl. 89—37.)



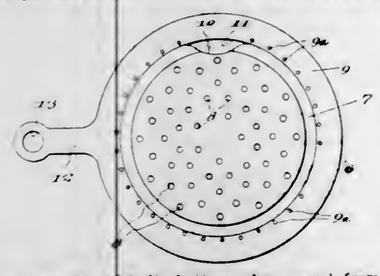
2. A gun carriage comprising a pedestal, a gun pivot pin having an adjustable foot-step bearing, a platform movable around said pedestal, and a universal connection between said platform and the gun pivot pin.

3. A gun carriage comprising a pedestal, a gun pivot pin having an adjustable foot-step bearing, mechanism for adjusting said foot step bearing, and a hand wheel movable around the pedestal and geared with said adjusting mechanism.

1,477,981. COOKING UTENSIL. ANNA SECHLER, Chicago, Ill. Filed July 14, 1922. Serial No. 574,907. 2 Claims. (Cl. 53—7.)

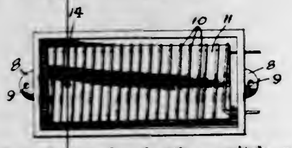
1. A cover for cooking vessels having a raised top portion, the sides of said cover sloping outwardly therefrom, a laterally directed and upwardly inclined flange extending from the bottom edges of said cover,

said flange having transverse apertures at the inner edge thereof and a short transverse slit therethrough, and a portion of the side wall adjacent said slit being



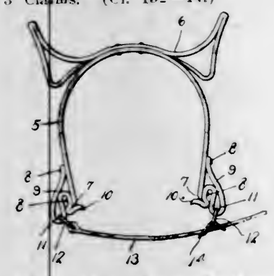
bulged inwardly with its bottom edge spaced from said flange to form a depending skirt substantially as described.

1,477,982. ELECTRICAL HEATER. RAY R. SHRIVER, Rinard, Iowa. Filed Oct. 13, 1922. Serial No. 594,288. 1 Claim. (Cl. 219—19.)



An electric device for heating switch points and other railroad appliances comprising a casing having one end open, attaching ears formed on the casing to permit the securing of the casing in place, a pair of facing insulated blocks disposed in the casing, a wire coiled around one block and then around the other blocks, a strip of mica interposed between the blocks, a cover for the open end of the casing, and securing elements extending through the casing, cover and insulating blocks for holding the heater in its assembled form.

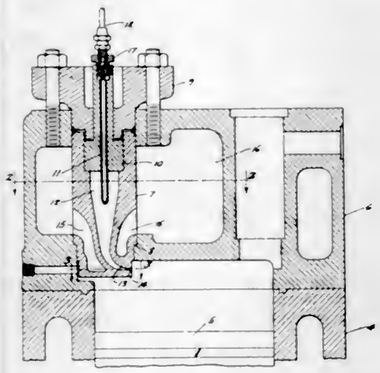
1,477,983. TRACTION DEVICE. JAMES G. STOKES, Burgaw, N. C. Filed Nov. 8, 1922. Serial No. 599,660. 3 Claims. (Cl. 152—14.)



1. In a traction device of the character set forth, comprising an open band, a tread member on the band, clips on the ends of the band, rim engaging bills on the clips, and band fastening means carried by the clips.

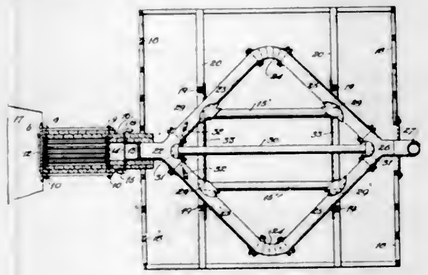
1,477,984. METHOD OF AND MEANS FOR FUEL INJECTION FOR INTERNAL-COMBUSTION MOTORS. JOHN H. SUTER, Los Angeles, Calif. Filed June 7, 1920. Serial No. 387,094. 2 Claims. (Cl. 123—33.)

1. In combination with the water jacketed cylinder of an internal combustion engine having two aligned concentric openings extending through the outer and inner walls of the cylinder head adjacent the cylinder wall, an injection nozzle comprising a conical chamber communicating through restricted openings with said cylinder, fuel being injected into said chamber before the end of the compression stroke and then mixed with air from the cylinder forced through said openings during the compression stroke whereby a primary ex-



plosion occurs which forces the fuel charge into the cylinder, said injection nozzle being formed with a cylindrical body which is mounted in the openings in said head, the reduced inner or discharge end of said nozzle being disposed to enter the cylinder at its side, a plug closing the top of said chamber, and a fuel nozzle extending through said plug into said chamber.

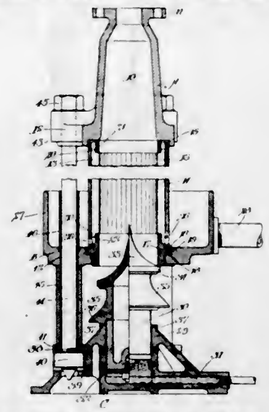
1,477,985. LUMBER DRIER. KOSCOE D. SYKES, Norfolk, Va. Filed Feb. 24, 1923. Serial No. 620,961. 9 Claims. (Cl. 34—19.)



1. A lumber drier of the character described, comprising a house, a furnace located at the front of the house and having an arched rear portion projected into said house, a Y-shaped pipe member with its inner end fitted into said rear portion of the furnace, primarily outwardly and rearwardly inclined heat radiating pipes having one end fitted into the outer ends of said member, primary inwardly and rearwardly heat radiating pipes with one end fitted into the inner ends of another Y-shaped member, elbow members connecting the other end of said primary pipes, and a plurality of secondary pipes connected to the primary pipes by cast iron collars riveted thereto.

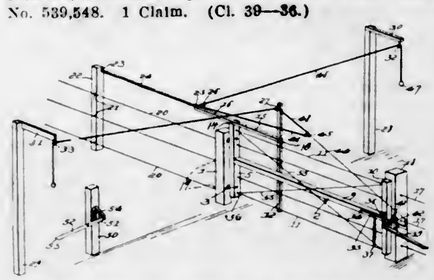
1,477,986. FILTERING APPARATUS. BURCHARD THOENS, New York, N. Y., assignor of one-half to Emile J. Métérie, East Orange, N. J. Filed Aug. 4, 1917. Serial No. 184,459. 7 Claims. (Cl. 210—178.)

1. A filter construction including a plurality of bars, adjustable means for forcing and holding each bar substantially in contact with its adjacent bar, means for conducting fluid to be filtered to said bars and means for



conducting away the filtrate which passes through between the bars.

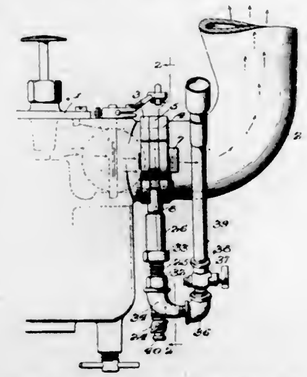
1,477,987. GATE-OPENING MECHANISM. HENRY E. WARE, Moorcroft, Wyo., assignor of one-half to Arlo R. McGrew, Moorcroft, Wyo. Filed Feb. 27, 1922. Serial No. 539,548. 1 Claim. (Cl. 39—36.)



In a gate operating mechanism, a gate supporting post, a swinging gate mounted thereon and provided with a tensioned latch, a keeper post including a keeper engaged by said latch, a horizontal bar carried by the upper portion of the hinged end of the gate and extending across the hinge in alignment with the gate, a spring connected to the fence and in turn to one end of said bar to hold the gate closed, a vertical bar carried by the gate and secured to the opposite end of the first bar, a pulley carried by the end of the first bar to which the spring is connected, a pulley carried by the upper end of the vertical bar, pulling means passing over the first pulley and extending in alignment with the gate and operatively connected to the gate latch to open the gate from one side of the fence, a second pull means passing over the second pulley at the top of the vertical bar and extending in a direction with the gate and connected to the first pull means at a point between the vertical bar and the latch, whereby the gate may be opened from the opposite side of the fence, and an additional keeper post including a keeper at one side of the road on one side of the fence to be engaged by said latch to hold the gate open.

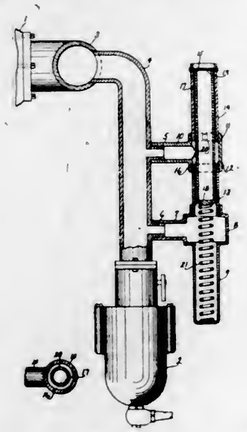
1,477,988. AIR-MIXING DEVICE. HENRY WEHR, Morris Park, and JOSEPH GERMAIN PINEAU, Woodhaven, N. Y. Filed Jan. 14, 1922. Serial No. 529,220. 2 Claims. (Cl. 48—180.)

1. In a device of the character described, a tubular fluid intake element adapted to be supported with one end thereof in open communication with a source of suction and having diametrically opposite notches in the wall of the second end thereof, said notches extending from the bore of the tubular intake element to the outer wall thereof, a tubular valve casing having an inlet at one end and being provided with an internal annular shoulder adjacent to the inlet and facing in the direction opposite to the inlet, means connecting the tubular fluid intake element to the valve casing so that the sec-



ond end of the former is disposed within the latter in spaced confronting relation to the shoulder, and a valve slidably disposed in said valve casing and being adapted to be moved by gravity against said shoulder and by suction against the confronting end of said fluid intake element, said valve having the general shape of a triangular prism having the ends thereof rounded and having a circumferential groove in its wall intermediately of its ends.

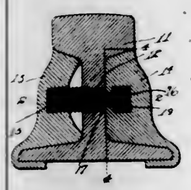
1,477,989. AUXILIARY AIR SUPPLY FOR FUEL VAPORIZERS. JOSEPH A. AMORI, San Jose, Calif. Filed May 13, 1922. Serial No. 560,857. 1 Claim. (Cl. 251—144.)



In combination with the suction tube of the manifold of an internal combustion engine, having spaced ports formed therein, a pipe section connected to one port having a chamber formed therein and a recess extending at right angles thereto and communicating with said chamber, a pipe section connected to the other port and provided with a chamber in axial alignment with said first mentioned chamber, a pipe section connecting said chambers, a pipe section communicating with said second chamber in axial alignment therewith and having a stop

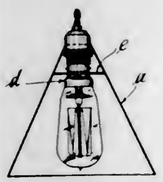
in its outer end, a tube closed at its inner end slidably mounted in said last named pipe sections and passing through said last named chamber, a spring inserted in a recess in said first named chamber and engaging said tube and normally holding the same in engagement with said stop, and a port formed in said tube and movable into and out of communication with said second chamber.

1,477,990. RAIL JOINT. EDWARD E. AUGUST, Chicago, Ill. Filed Jan. 11, 1923. Serial No. 612,097. 1 Claim. (Cl. 238—251.)



In a rail joint, the combination with rails having transverse openings therein and bolts disposed through said openings and each having a head on one end and the other end threaded, of plates disposed at opposite sides of the rail webs, one of the plates having slots formed in its inner face for the reception of the headed ends of the bolts, means within the slots for engagement with the heads of the bolts for drawing the plate transversely of the rails, the other plate having threaded openings receiving the threaded ends of the bolts, means engaged through one end of the first plate and engaged with one of the bolts for moving the plate transversely of the bolts, and downwardly and inwardly extended flanges on the lower edges of the plates disposed beneath the base flanges of the rails.

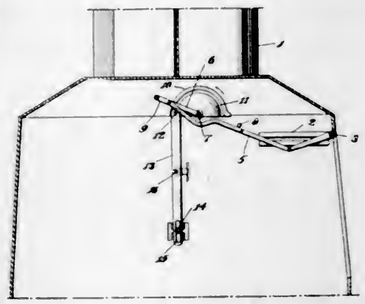
1,477,991. LAMP SHADE. STANLEY HENRY BAKER, Manchester, England. Filed May 3, 1922. Serial No. 558,270. 2 Claims. (Cl. 240—108.)



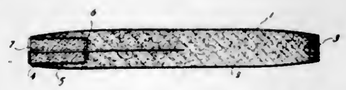
1. Shades for use on lamps and the like, comprising a blank adapted to be folded to form a downwardly flared shade with an opening at the top, of substantially the same diameter as the lamp holder, tabs at one edge of said blank and complemental slits near the other edge of the blank, a disc within the shade at a distance below the top of the same, said disc being perforated to fit over the neck of a lamp and said perforation being formed with diametrically opposite slots to accommodate the lamp pegs, substantially as described.

1,477,992. DOOR-CLOSING DEVICE AND LOCK. HERSHEL A. BENEDICT, East Orange, and EDVARD M. MOLLER, Jersey City, N. J. Filed Mar. 8, 1922. Serial No. 542,073. 8 Claims. (Cl. 180—82.)

1. In a motor vehicle having a door, the combination of a control lever operative on two angularly disposed axes, means operative to control the lever with respect to one axis only, means controlling the lever with respect to its other axis and means associated with the door adapted to lock under predetermined conditions the operative control means.

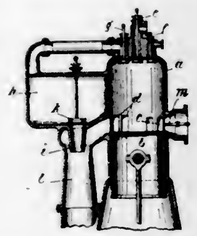


1,477,993. SMOKER. CHRISTIAN F. BREMER, Tampa, Fla. Filed July 12, 1920. Serial No. 395,663. 1 Claim. (Cl. 131—52.)



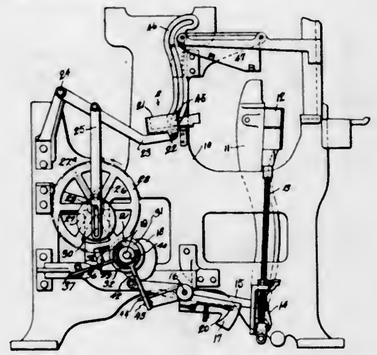
A smoker's article comprising a filler, a wrapper secured around the filler and being of a length slightly in excess of the length of the filler, a mouthpiece disposed within the wrapper and within the excess of length thereof, said mouthpiece comprising a fibrous filler and a surrounding wrapper, and a removable draft forming pin disposed longitudinally through the center of the mouthpiece and through the major portion of the filler first-named, said pin having a head lying against the outer end of the mouthpiece and the first-named wrapper.

1,477,994. TWO-STROKE-CYCLE INTERNAL-COMBUSTION ENGINE AND SCAVENGING AND CHARGING PROCESS THEREOF. ALFRED BÜCHI, Winterthur, Switzerland. Filed Mar. 31, 1921. Serial No. 457,352. 9 Claims. (Cl. 60—32.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



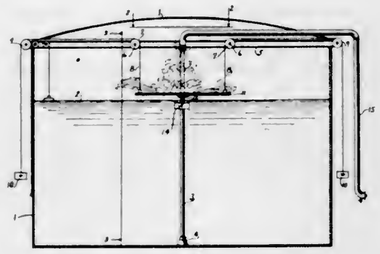
1. The method of scavenging and charging two-stroke cycle internal combustion engines, comprising drawing combustion gases under pressure from the interior of the cylinder before the exhaust begins, conveying and storing the gases thus withdrawn and causing said stored gases to flow in an ejecting jet co-operating with the exhaust of the engine whereby the remainder of the exhaust gases in the cylinder is drawn out and a fresh charge filled into the cylinder.

1,477,995. SHUTTLE-CHANGING LOOM. AUGUSTIN J. CHEVRETTE, Worcester, Mass., assignor to Crompton & Knowles Loom Works, a Corporation of Massachusetts. Filed Oct. 31, 1922. Serial No. 598,123. 8 Claims. (Cl. 139—234.)



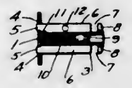
1. In a shuttle changing loom, in combination, a shuttle removal box and means to give said box a single continuous upward movement to discharge position, and a succeeding continuous downward movement to normal receiving position after each shuttle transfer.

1,477,996. STEAM DEFLECTOR. FRANK B. CHURCH, San Jose, Calif. Filed Sept. 6, 1921. Serial No. 498,772. 2 Claims. (Cl. 169—4.)



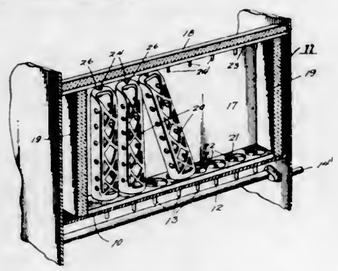
1. The combination of an oil tank, a diffusion plate arranged in the center thereof and movable along the axis thereof, counterbalancing means for said plate arranged on the exterior of said tank whereby the plate may be moved to a plane adjacent the surface of the contents of said tank, and means for discharging a vapor against the upper surface of said plate.

1,477,997. COMBINATION CUFF AND COLLAR BUTTON. WILLIAM J. CIRCLE, Seattle, Wash. Filed June 19, 1923. Serial No. 646,291. 2 Claims. (Cl. 24—109.)



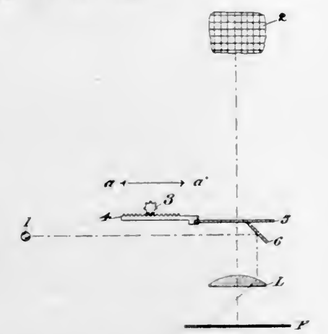
1. A button having a tubular shaped stem with flanges on the sides and notches in the flanges adjacent one end; a spring in the stem and fixedly attached to one end; a lug in the stem and attached to the free end of the spring; and another button having a pin projecting from it that fits into the tubular shaped section, and engages the lug at the end of the spring, an opening around the pin into which the stem and flanges may project, and notches into which the lugs formed at the end of the flanges of the stem may snap.

1,477,998. GAS HEATER. JACOB E. DAVIS, Ironton, Ohio. Filed Mar. 4, 1922. Serial No. 541,147. 2 Claims. (Cl. 126—92.)



1. In a heater of the class described provided with a clay fire brick top, a plurality of radiants, a base plate formed with recesses for supporting the lower ends of said radiants, the upper end of each radiant being formed with an opening, a supporting strip secured to the top of said heater and a plurality of lugs depending therefrom for engagement with the openings in said radiants, said lugs cooperating with said base plate for separately and removably securing each of said radiants in a vertical position.

1,477,999. METHOD AND APPARATUS FOR PRODUCING NOVEL AND MULTIPLE-IMAGE EFFECTS IN PHOTOGRAPHY. LEON F. DOUGLASS, Menlo Park, Calif. Filed Feb. 20, 1922. Serial No. 537,940. 19 Claims. (Cl. 88—16.)

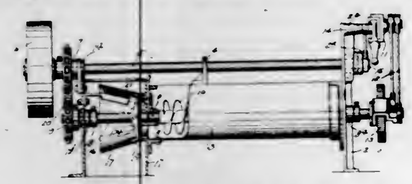


3. The method of producing composite image effects upon a sensitized photographic film, which comprises positioning a relatively small light-directing member in the field of an object lens of a camera, directing an image of an object with said member through said lens onto a sensitized film, and simultaneously allowing light rays from a second object to proceed on all sides of said member, past the same, and through said lens onto said film.

1,478,000. FEEDER. EMIL R. DRAVER, Richmond, Ind., assignor to B. F. Gump Company, Chicago, Ill., a Corporation of Illinois. Filed July 1, 1921. Serial No. 481,791. 10 Claims. (Cl. 83—44.)

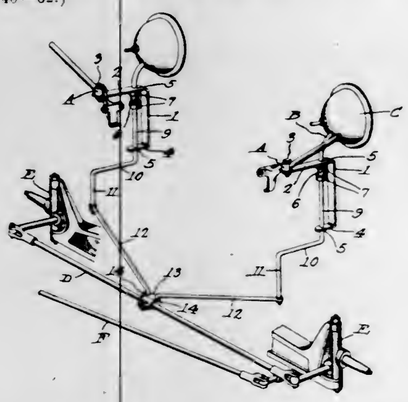
1. A feeding and distributing device for fine or granular material comprising a stationary trough having a discharge outlet at one end, a conveyor in said trough,

a hollow conical chute having a free outer edge and having its smaller end disposed adjacent to and con-



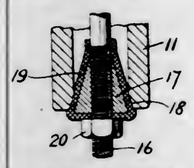
tinuous with said trough and outlet, means for constantly rotating said chute, and means for rotating said conveyor.

1,478,001. DIRIGIBLE HEADLIGHT FOR AUTOMOBILES. AUGUSTUS C. DUKE, Cedartown, Ga., assignor of one-half to James M. Burke, Cedartown, Ga. Filed July 5, 1922. Serial No. 572,845. 1 Claim. (Cl. 240—62.)



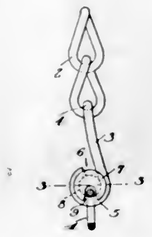
In a dirigible headlight for vehicles of the class described, the combination of a supporting arm comprising a forwardly projecting portion a downwardly turned portion and a rearwardly bent portion, said arm having aligned orifices in its parallel portions, a headlight standard swivelly mounted in said supporting arm, a vertically disposed spool link affixed to said standard, a vertically disposed bent rod swivelly mounted in the rearwardly bent portion of the supporting arm and affixed to the aforesaid spool link, a link attached to the lower end of the bent rod, and a clamp to which the other end of the link is swivelly attached, said clamp being secured to a steering element of the vehicle.

1,478,002. TIRE VALVE. OLIVER W. EASTBURN, Jr., Kennett Square, Pa., assignor to Evan B. Sharpless, Avondale, Pa. Filed Mar. 8, 1922. Serial No. 542,097. 2 Claims. (Cl. 152—12.)



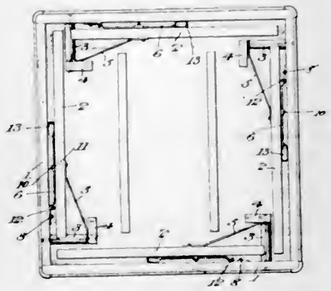
2. A tire valve having a tubular casing, a conical valve seat, a valve stem, a conical valve member on the stem, a tension spring surrounding the stem for holding the valve to its seat, the stem having a threaded end, a cap for the valve for engaging the threads on the stem, a rubber sleeve on the valve member having a radial skirt engaging the face of the valve member at the larger end, and a securing device compressing the skirt between the valve member and the securing device.

1,478,003. CONNECTING LINK. PERRY E. FELLOWS, Rochester, N. Y. Filed Mar. 23 1922, Serial No. 545,995. Renewed Oct. 13, 1923. 1 Claim. (Cl. 24—232.)



The combination with a connecting link for chains having a circular eye at one end provided with an opening through which an adjacent link is adapted to be engaged, of a locking disk retained against bodily movement in the eye but adapted to rotate on its own axis and provided with a radial recess in its periphery terminating short of the center of the disk and adapted to register with the opening in the eye and to rotate with the engaged link to a position out of such register.

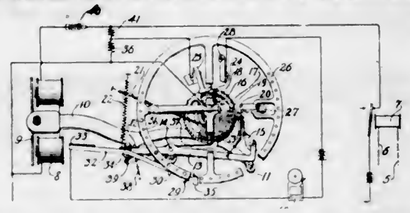
1,478,004. FOLDING TABLE. LOUIS FERGUSON, New York, N. Y., assignor to Ferguson Brothers Manufacturing Company, Hoboken, N. J. Filed Aug. 27, 1921. Serial No. 496,112. 4 Claims. (Cl. 45—11.)



1. In a table, a folding leg, and a swinging brace connected at one end thereof to said table, said brace being of flat material slidably connected to the leg, the free end of the brace being twisted to form a shoulder which abuts against the connection between the leg and brace to prevent the leg from being swung beyond the normal limit of its unfolded position.

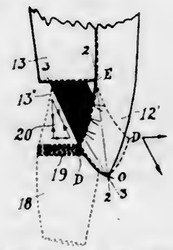
1,478,005. SIGNALING SYSTEM. JOSEPH C. FIELD, Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 24, 1920. Serial No. 405,697. 4 Claims. (Cl. 177—343.)

1. In a selective signaling device, a step-by-step circuit closing element, an electromagnet responsive to current impulses, a condenser in the energizing circuit of said electromagnet, and means rendered effective upon the advancement of said element to a predetermined



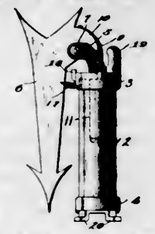
position for preventing the discharge of said condenser when the time intervening between succeeding impulses is of a predetermined value.

1,478,006. UNDERGARMENT. HARRY F. GEIST, Aurora, Ill. Filed Mar. 27, 1922. Serial No. 546,992. 6 Claims. (Cl. 2—144.)



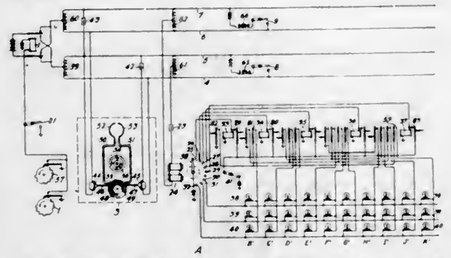
2. A garment adapted to be worn between the human body and an outer garment including leg covers, said leg covers each comprising a main front and a main back section, said front sections being substantially longer than said main back sections providing shields to protect the knees in front from said outer garment, the side edges of said knee shields being shirred to give them a fullness, said back sections each being provided with two spaced apart tip like extremities exposing the knees in the rear, one edge of each of said tips uniting with the shirred side edges of said knee shields tying said shields diagonally to said main back sections, the other tip edges being colinear with the lower extremities of the knee shields forming bias extremities for the garment leg covers.

1,478,007. AUTOMOBILE DIRECTION INDICATOR. FRANK OLIVER GRAY, Harvard, Ill. Filed May 8, 1920. Serial No. 379,814. 5 Claims. (Cl. 177—329.)



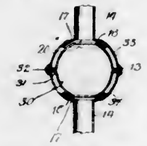
1. A direction indicator, comprising a barrel with suitably attached upper and lower caps, the latter having means enabling mounting of the indicator, the former having a bracket and lug; a signal arm pivoted on the bracket, with a connection to a core of a solenoid in the barrel, and including a heel to engage the lug when the arm is moved to the extended position; and a spring attached to the arm assisting its gravitation to the depressed position upon deenergization of the solenoid, and to keep the core in contact with the upper cap to prevent rattling of the parts.

1,478,008. SIGNALING SYSTEM. JOHN B. HARLOW, Upper Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 5, 1919. Serial No. 308,755. 10 Claims. (Cl. 177—386.)



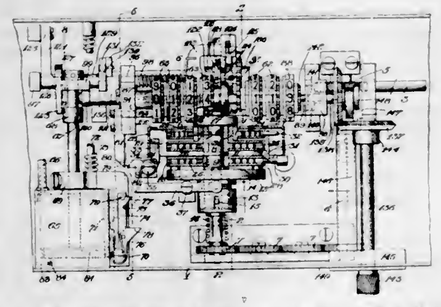
1. In a signaling system, a plurality of interconnected groups of sound responsive devices, means for selectively controlling any group of sound devices and also any pair of devices of any group, a plurality of signaling devices, and switching means the operation of which is initiated by the group selection and completed by the selection of said sound responsive devices in pairs to selectively operate said signaling devices to indicate the particular sound responsive devices selected.

1,478,009. FLEXIBLE CHAIN FOR ELECTRIC-LIGHTING FIXTURES AND PORTABLE LAMPS. MAX HERSKOVITZ, Chicago, Ill. Filed Oct. 18, 1920. Serial No. 417,650. 5 Claims. (Cl. 59—78.)



1. A flexible chain for electric lighting fixtures and portable lamps, comprising ball members, each of which at one end is concavo-convex and formed with a hole and a slit extending back from said hole and each of which has connected therewith at its opposite end a neck portion, said neck portions each having a slit concavo-convex flange, said flange being insertable into an adjacent ball member through the hole and slit thereof to flexibly connect said ball members together.

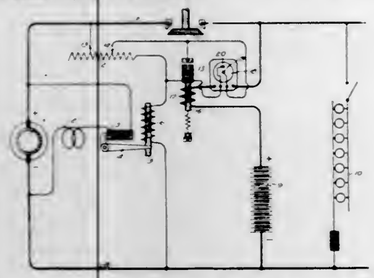
1,478,010. REGISTERING MECHANISM. ADOLPH STUBER, Rochester, N. Y. Filed Nov. 5, 1917. Serial No. 200,261. 19 Claims. (Cl. 235—1.)



1. The combination of a motor, means for feeding fluid fuel thereto comprising a pressure controlled fluid measuring device, an indicator, mechanism for setting said indicator having an actuating connection with a

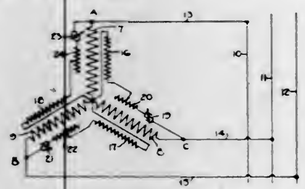
part driven by said motor, pressure responsive means communicating with said measuring device, and an actuating connection between said pressure responsive means and setting mechanism for periodically controlling the latter in response to variations in pressure in said measuring device.

1,478,011. ELECTRICAL SYSTEM. WILLIAM A. TURBAYNE, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Mar. 29, 1920. Serial No. 369,473. 3 Claims. (Cl. 171—229.)



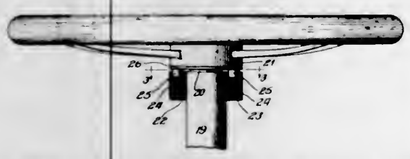
1. In an electrical system, in combination, a variable speed generator, a field rheostat for said generator, a solenoid for governing said rheostat, a resistance, said solenoid being connected across said generator through said resistance, a normally open shunt circuit for varying the effect of said resistance, and current controlled means for first closing said shunt circuit and thereafter controlling said shunt circuit when the current in said current-controlled means exceeds a predetermined amount.

1,478,012. ALTERNATING-CURRENT DYNAMO-ELECTRIC MACHINE. THOMAS W. VARLEY, New York, N. Y. Filed Apr. 8, 1920. Serial No. 372,121. 11 Claims. (Cl. 171—233.)



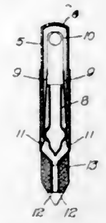
2. The combination with a source of supply of alternating current of a plurality of different phases, of a dynamo electric machine having in combination relatively movable members, a main alternating current winding, a second alternating current winding superposed on the aforesaid winding and means for energizing said windings by alternating currents from different ones of said phases respectively.

1,478,013. STEERING GEAR. PERRY S. BAUER, Chicago, Ill. Filed May 4, 1922. Serial No. 558,411. 4 Claims. (Cl. 74—33.)



1. The combination of a steering column, a steering shaft rotatably mounted therein and projecting beyond the upper end thereof, a steering wheel secured to the projecting end of said steering shaft, a friction surface on the lower side of said steering wheel, and resilient friction means carried by said steering column and engaging said steering wheel.

1,478,014. SWITCHBOARD INCANDESCENT LAMP. HARRY TRISTRAM BELLAMY, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 23, 1919. Serial No. 306,170. 1 Claim. (Cl. 176—16.)

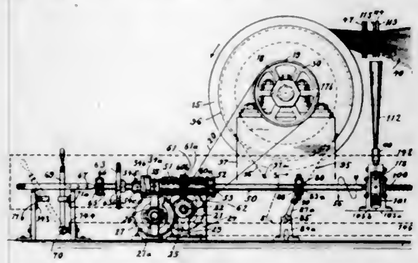


A telephone switchboard incandescent lamp having a substantially flat end wall of uniform thickness.

1,478,015. PRODUCTION OF TRIPHENYLMETHANE DYE. DON W. BISSELL, Buffalo, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 29, 1920. Serial No. 427,126. 3 Claims. (Cl. 260—68.)

3. In the production of a triphenylmethane dye by subjecting the disulfonic acid of 3-hydroxy-4',4''-tetraethyldiaminotriphenylmethane to oxidation in an acetic acid solution with lead peroxide, the steps which comprise precipitating lead sulphate, adding amorphous silica, filtering and crystallizing out the dye in the presence of salts.

1,478,016. WARP AND JACK THREAD-BREAK-STOPPING DEVICE. ERIC A. BLACK, Orange, N. J. Filed Nov. 26, 1921. Serial No. 517,896. 12 Claims. (Cl. 28—50.)

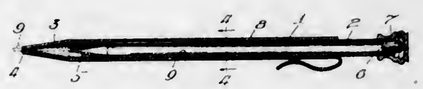


1. A drum, upon which a thread is being wound, a mechanism to actuate said drum, a perforated ball, normally supended by the upwinding thread, means whereby this ball, when released by the breaking of said thread, is directed during its free fall in such manner, that it ultimately lodges as a wedge between two operating parts of said mechanism, acting thereby as a frictional stop to these parts, and means to transmit this stopping action onto the drum-actuating parts of said mechanism.

1,478,017. PROCESS OF DE-LIVERING PAINTS, VARNISHES, AND THE LIKE. THEODORE F. BRADLEY, Cranford, N. J. Filed Aug. 23, 1921. Serial No. 494,687. 15 Claims. (Cl. 134—36.)

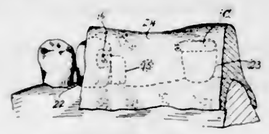
3. A process for preserving the consistency of coating materials containing a varnish vehicle, or restoring their consistency when partially or wholly livered, consisting in the addition of the fatty acid from linseed oil.

1,478,018. PENCIL. JOHN BRICKEN, Chicago, Ill. Filed Jan. 12, 1920. Serial No. 350,910. 4 Claims. (Cl. 120—19.)



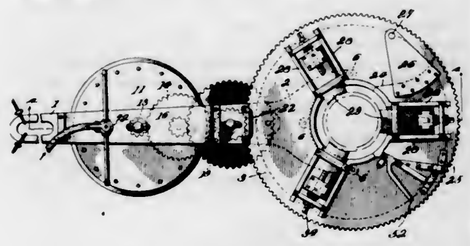
2. A pencil comprising telescopic tubular members, each of which is provided with a tapering end, the end of said outer member having an opening and a slot therein, a lead frictionally held within said slotted opening and being abutted by the tapering end of said inner member, said inner member having an expanded portion adapted to frictionally engage said outer member, and a cap on the outer end of said inner member by which said inner member may be grasped.

1,478,019. DENTAL IMPRESSION GUIDE. ISAAC BROWN, New York, N. Y. Filed June 13, 1922. Serial No. 567,962. 7 Claims. (Cl. 32—12.)



4. A device useful in the construction of dental bridgework comprising a web to form an impression in a mold, and a boss on the web to fit into a pier tooth socket, and the combination of a pier tooth provided with a socket to receive the boss.

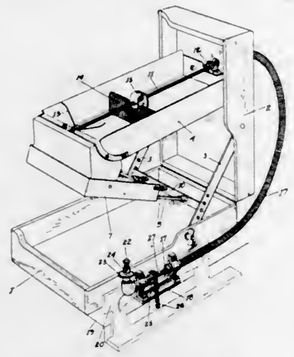
1,478,020. WRENCH FOR OIL-WELL CASINGS. CHARLES AUGUSTUS BUTLER, Okmulgee, Okla. Filed May 2, 1921. Serial No. 466,341. 13 Claims. (Cl. 255—35.)



1. A portable oil well casing wrench comprising a support, a chuck rotatably mounted on said support and provided with a central opening and surrounding chuck jaws for the reception of said well casing, and a prime mover mounted on said support and connected to said chuck for rotating the same, said jaws having both a pivotal and a radially shifting movement on said chuck whereby to grip said casing.

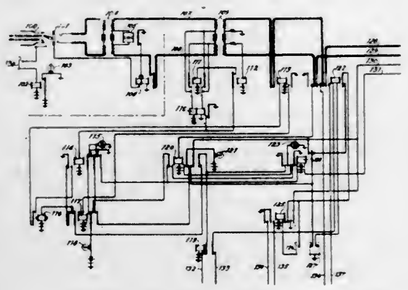
1,478,021. AUTOMATIC-FEED NAIL STRIPPER. CHARLES C. CALVERT, Lodi, Calif. Filed Nov. 20, 1922. Serial No. 601,996. 13 Claims. (Cl. 1—49.7.)

10. A nail stripping device for box-makers using a form in which to slide the box shook, including a nail tray, a discharge chute leading therefrom, a member mounted in the tray for forcing any nails therein toward the chute, a rotatable shaft mounted on the tray and operatively connected to said member to move the same, a friction wheel positioned to be engaged by the shook as it is moved into the form, driving shaft means between said wheel and



the first named shaft, and means between said wheel and the driving shaft means whereby the latter will only be rotated with a movement of the wheel in one direction.

1,478,022. TELEPHONE SYSTEM. WARREN W. CARPENTER, Brooklyn, N. Y., and HENRY HOVLAND, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 22, 1920. Serial No. 432,427. 7 Claims. (Cl. 129—27.)

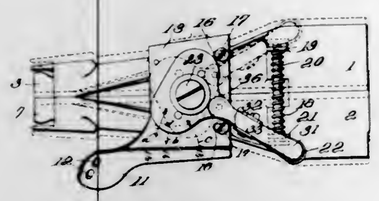


1. In a telephone system, a subscriber's line, a selective switch for extending connections to the subscriber's line, a register sender, an impulse circuit, a relay, means under the control of the register sender for operating said relay to send impulses over said circuit to operate said switch, signaling means, means operative when the subscriber's line is found busy for rendering the signaling means effective, means controlled by the register sender for altering the operation of said relay, and means responsive to such operation of said relay for placing said selective switch in condition to extend a connection to the subscriber's line regardless of its busy or idle condition without rendering effective said signaling means.

1,478,023. ADJUSTABLE CENTER-PLAIT FOLDER. JOHN E. CHALMAN, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 7, 1919. Serial No. 336,463. 6 Claims. (Cl. 112—152.)

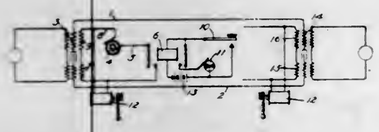
2. A folder for sewing machines including cooperating guiding and folding sections for folding and directing a facing strip, means for independently supporting said folding sections, whereby the same may be bodily ad-

justed in a direction at right angles to the longitudinal axis of the folder, a manually shiftable lever, said folding sections and said lever having cooperating devices for



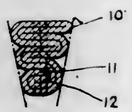
shifting the folded sections simultaneously toward and from the center line of the folder and means for locking said sections in set positions.

1,478,024. COMBINED TELEPHONE AND TELEGRAPH SYSTEM. HENRY P. CLAUSEN, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 19, 1919. Serial No. 324,785. 3 Claims. (Cl. 179—4.)



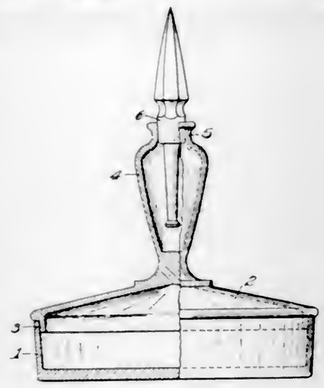
1. In combination, a line, an alternating current generator associated with said line but normally inoperative to impress current on said line, a telegraph sender, a relay associated with said sender and operating in response to the actuation of said sender to cause said generator to be operative to impress alternating current signals on said line, an interrupter, a common control means for operating said generator and said interrupter, said interrupter being in circuit with the winding of said relay to maintain said relay in condition to keep said generator operative after the actuation of said sender has ceased, and for controlling said relay to render said generator inoperative only at the instant that the alternating current of the generator is at the zero point of its cycle.

1,478,025. FABRIC BELT AND METHOD OF MAKING THE SAME. HARRY A. COBAUGH, East Orange, N. J., assignor to The Rossendale-Reddaway Belting & Hose Co., New York, N. Y., a Corporation of New Jersey. Filed Jan. 25, 1923. Serial No. 614,755. 16 Claims. (Cl. 154—4.)



14. A one-piece endless, multi-ply fabric driving belt of V-shaped cross-section.

1,478,026. COMPOSITE GLASS DISH. HARRY G. DALZELL, Chicago, Ill., assignor to Fostoria Glass Company, Moundsville, W. Va., a Corporation of West Virginia. Filed Jan. 10, 1923. Serial No. 611,707. 3 Claims. (Cl. 215—6.)



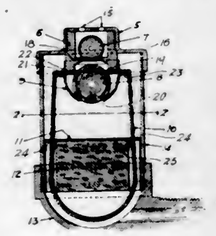
1. A dressing table accessory comprising a bowl, a cover removably mounted upon said bowl, and a bottle formed integral with and occupying a central upstanding position on said cover.

1,478,027. PRODUCTION OF VAT DYESTUFFS. LLOYD C. DANIELS and WINTHROP S. LAWRENCE, Buffalo, N. Y., assignors to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed July 20, 1921. Serial No. 486,195. 14 Claims. (Cl. 260—61.)

8. As a new product, a non-vatable product resulting from the fusion of a benzanthrone compound with caustic alkali, said product being insoluble in dilute alkaline hydrosulfite.

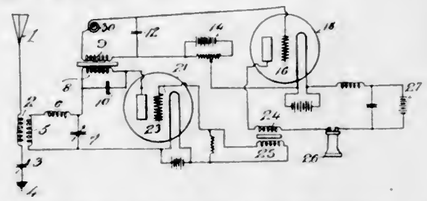
14. The method of purifying crude dibenzanthrone, which comprises subjecting crude dibenzanthrone to treatment with alkaline hydrosulfite liquor, removing the solution of vatable dye from undissolved impurities, aerating the solution with air and collecting by filtration the precipitate of purified dibenzanthrone thus produced.

1,478,028. VENT VALVE FOR RADIATORS. EDWARD E. DECKER, Elizabeth, N. J. Filed Nov. 11, 1920. Serial No. 423,478. 7 Claims. (Cl. 236—62.)



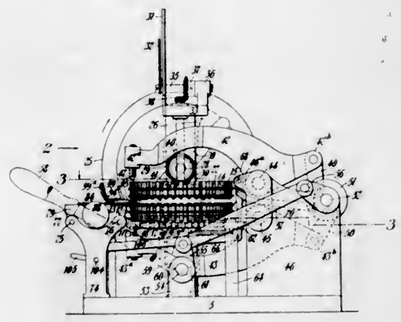
1. In a device of the character described, the combination of a casing having a valve seat therein, a valve to cooperate with said seat, thermostatic means for holding said valve away from said seat while the casing is cool and automatically releasing said valve upon influx of heat into said casing, and a float to actuate said valve holding means to release said valve upon influx of water into said casing.

1,478,029. RADIO RECEIVING SYSTEM. LEE DE FOREST, New York, N. Y. Filed July 2, 1920. Serial No. 393,609. 24 Claims. (Cl. 250—8.)



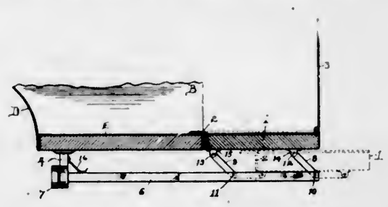
1. The method of receiving radio signals which comprises utilizing the received high frequency current to interrupt itself to thereby produce current impulses of relatively lower frequency.

1,478,030. TYPOGRAPHIC EMBOSSING MACHINE. FRANK DE MINICO, New York, N. Y., assignor to Pollard-Alling Manufacturing Company, New York, N. Y., a Corporation of New York. Filed Dec. 30, 1921. Serial No. 526,016. 7 Claims. (Cl. 197—6.7.)



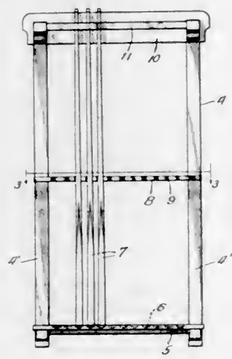
1. In an embossing machine having a die head rotatable about a fixed axis, and a plurality of pairs of punches and dies arranged circumferentially about said head, the combination of said dies, or punches, being normally held in inoperative positions respectively by gravity, and a spring member supported on a fixed part of the machine and projecting into operative relation with any given die when that die is in operative position, said spring member being effective for returning said die to inoperative position when moved therefrom.

1,478,031. RUNNING-BOARD EXTENSION. JAMES H. EATON, Union County, Ind. Filed July 9, 1923. Serial No. 650,295. 3 Claims. (Cl. 280—164.)



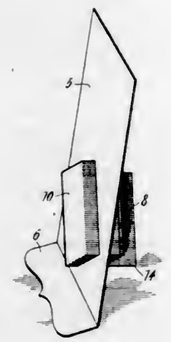
1. In combination with an automobile having a stationary running-board, an extension adapted to extend out forming a lateral continuation of the stationary running-board, slidable bars extending across underneath both the running-board and the extension, a guide bracket through which each of said bars operate, said brackets being secured to the underside of the running-board, links pivoted to said arm, and to said extension, and means whereby the extension will be supported by the running-board.

1,478,032. CUE RACK. CICERO HINE, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, a Corporation of Delaware. Filed May 5, 1921. Serial No. 466,961. 7 Claims. (Cl. 46—6.)



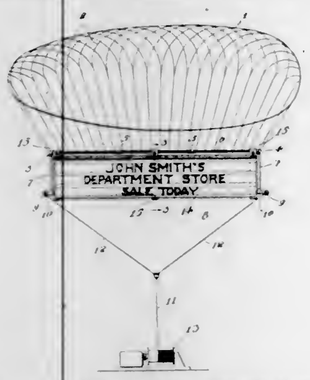
1. A cue rack comprising a frame having a base to receive and support the cues and means rigidly secured to the frame engaging the cues on one side at the top and bottom thereof and on the opposite side between the top and bottom thereof for holding the cues in upright position.

1,478,033. DISPLAY DEVICE. WILLIAM L. HOPKINS, Roslyn, N. Y., assignor to American Lithographic Company, New York, N. Y., a Corporation of New York. Filed Mar. 7, 1922. Serial No. 541,799. 2 Claims. (Cl. 211—24.)



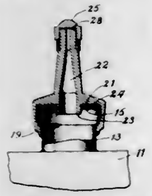
1. In a display device of sheet material, an upright panel member having an aperture therethrough of a profile adapted for supportingly engaging the article for display, a wing articulated to a portion of the periphery of said aperture, said wing when extended acting as an easel member for supporting said panel member, and said wing member being held in its extended position by means of the article supported in said panel member.

1,478,034. AERIAL ADVERTISING DEVICE. ABRAHAM HORTZ, Philadelphia, Pa. Filed Oct. 15, 1923. Serial No. 668,323. 8 Claims. (Cl. 40—127.)



1. An aerial advertising device including a balloon; a frame connected to the balloon and having spaced sides; a pair of signs; means detachably connecting the signs to the frame sides, and means hingedly connecting the signs.

1,478,035. POURING-SPOUT CONTAINER. JOHN M. HOTHERSALL, Brooklyn, N. Y. Filed Sept. 11, 1922. Serial No. 587,281. 9 Claims. (Cl. 221—23.)



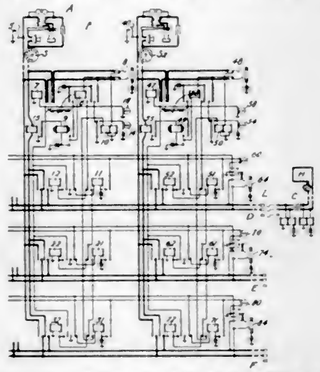
1. A container, comprising a body having a nozzle in an end thereof, said nozzle having a projecting horizontal shoulder above its base and an inwardly extending flange above said shoulder, and a spout adapted to fit upon said nozzle and having a flange engaging beneath said shoulder, said spout having a central outlet passage and having a ring of soft metal disposed around said passage and adapted to be forced into contact with the inwardly extending flange on said nozzle when said spout is positioned upon the nozzle.

1,478,036. PURIFICATION OF GASES. ROY GRIFFITH JONES, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Jan. 2, 1922. Serial No. 526,451. 9 Claims. (Cl. 23—10.)

1. The step in the process of separating a monatomic from a diatomic gas which consists in gradually reducing the temperature of a heated purifying agent.

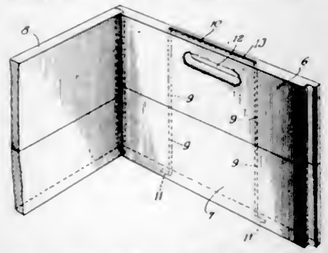
1,478,037. TELEPHONE-EXCHANGE SYSTEM. CHARLES W. KECKLER, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 26, 1919. Serial No. 347,300. 12 Claims. (Cl. 179—27.)

1. In a telephone exchange system, a manual exchange, an automatic exchange, a plurality of groups of trunk circuits extending from said manual to said automatic exchange, a plurality of groups of subscriber's lines terminating in a switchboard at the manual exchange, each of said groups having access to a particular group of trunk circuits, means for enabling a calling subscriber at said manual exchange to extend his line to the automatic exchange over an idle trunk circuit of the group with which his line is associated without the aid of the operator, and means operating automatically to signal



the operator to permit the line of a calling subscriber to be extended over an idle trunk circuit of another group of trunks if all the trunks of the group to which the calling subscriber has access are busy.

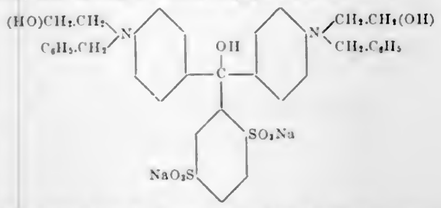
1,478,038. BOX AND CRATE. FRANK KRZYZAK, Chicago, Ill., assignor to Milk Bottle Crate Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 31, 1923. Serial No. 629,127. 7 Claims. (Cl. 217—17.)



1. A box or crate side or end having a plurality of bores communicating with two opposite edges of the side or end, and a wire arranged to lie adjacent to one of said edges and to pass through the bores, the ends of the wire engaging the other of said edges to hold the wire taut.

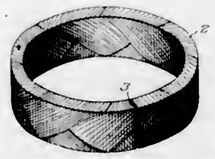
1,478,039. TRIARYLMETHANE DYES. LUCAS P. KYRIDES, Buffalo, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 21, 1922. Serial No. 596,135. 8 Claims. (Cl. 260—68.)

4. The new acid dyestuff comprising a product obtainable by condensation of benzaldehyde-2.5-disulfonic acid with N-hydroxyethylbenzylaniline and subsequent oxidation, and having the following probable formula:



said dyestuff being a blue powder with a reddish metallic lustre, soluble in water and in alcohol with a greenish blue coloration, insoluble in ether and in ligroin, soluble in concentrated sulfuric acid with a yellowish coloration which solution upon gradual dilution with ice-water changes to yellowish-red, reddish-brown, yellowish-green and finally to a greenish-blue coloration, the dyestuff remaining in solution; yielding upon reduction with zinc and hydrochloric acid the corresponding colorless leuco compound; and dyeing from an acid bath a blue shade on silk and on wool whereas cotton is left substantially unstained.

1,478,040. PACKING. JOHN G. LEONARD, Maywood, Ill. Filed Feb. 14, 1923. Serial No. 618,900. 4 Claims. (Cl. 154—45.5.)



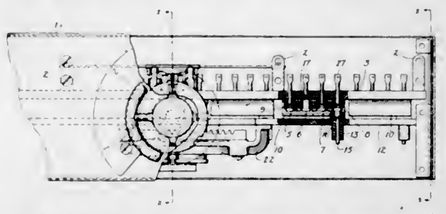
1. A packing composed of strands of flexible material woven together, each of said strands being composed of twisted flexible sheet material.

1,478,041. VEHICLE TOWING FRAME. WILHELM LORENZ, Farmington, Mo. Filed Sept. 26, 1922. Serial No. 590,570. 1 Claim. (Cl. 280—33.14.)



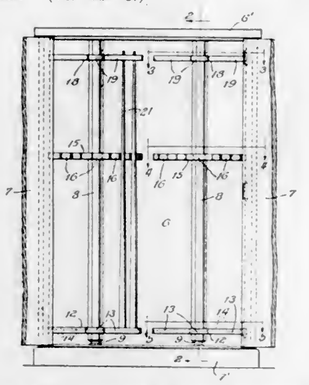
A towing frame comprising a reach rod, yokes at each end thereof, each of said yokes consisting of two rigid rectangular bars spaced in parallel, notched at their outer portions to receive an axle and having rigid vertical members at their end, said members having forks on one end, tongues pivoted in the forks, slides mounted on said bars, said slides having openings receptive of the ends of said tongues when turned over an axle in the notches, and means for securing said slides in engagement with said tongues.

1,478,042. MULTIPLE-UNIT SWITCH. HAROLD T. MARTIN, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 11, 1920. Serial No. 402,867. 5 Claims. (Cl. 200—16.)



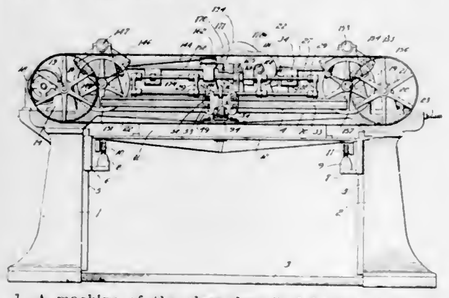
1. A multiple unit switch comprising a base, a plate secured to and extending at right angles from said base, a second plate situated in superposed relation to said first mentioned plate and movable in a direction parallel to its plane, a plurality of self contained multiple contact switch units, each comprising a stationary member and a movable contact member, each stationary member comprising a plurality of contact points situated in a row and insulated one from the other and a channel member on which the movable contact member is slidably mounted, said stationary member being mounted on said first mentioned plate and said movable contact member being mounted on said movable plate.

1,478,043. ROTARY CUE RACK. JESSE O. MATTESON, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed July 5, 1921. Serial No. 482,391. 5 Claims. (Cl. 46—6.)



1. A cue rack comprising a rotary standard and having a plurality of spiders spaced apart to rotate therewith and having outwardly projecting registering arms, the lower spider having sockets on the upper side of each arm adjacent the edges thereof, the intermediate spider having recesses in the side edges of each arm and the upper spider having slots in each arm.

1,478,044. ABRADING OR POLISHING MACHINE. CARL LAWRENCE MATTISON, Rockford, Ill., assignor to Mattison Machine Works, Rockford, Ill., a Corporation of Illinois. Filed Aug. 8, 1921. Serial No. 490,477. 33 Claims. (Cl. 51—141.)

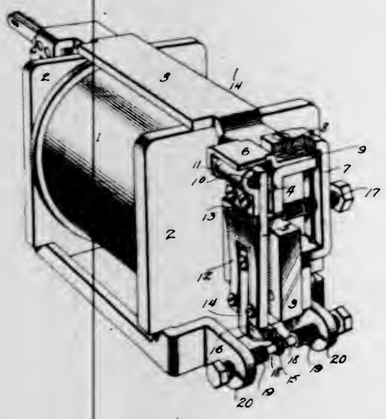


1. A machine of the class described having, in combination, a presser shoe structure, a guide rail on which said shoe structure is reciprocably mounted, power means for reciprocating said shoe structure including a rectilinearly reciprocable element extending parallel with the guide rail behind said shoe structure and means movably mounted on said shoe structure and arranged to be engaged with and disengaged from said rectilinearly reciprocable element.

1,478,045. RELAY. EDWARD D. MEAD, Caldwell, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 19, 1920. Serial No. 425,100. 6 Claims. (Cl. 200—87.)

4. In an electromagnetic relay, the combination of an energizing coil, a U-shaped magnetic core, a short

and light armature adjustably supported from one pole of said core by a reed which is adjustable in a plane substantially perpendicular to the armature, a resilient contact member on said armature, a contact point therein, adjustable contact points cooperating therewith and current carrying members for said adjustable contact points.



6. In an electromagnetic relay, the combination of an energizing coil, a U-shaped core therefor, a perforated armature on one side thereof carrying a flat U-shaped retractile spring opposite the perforation in said armature, and a bent contact member attached intermediate the prongs of said spring, a non-magnetic bridge joining the core poles on the opposite side from said armature, an adjusting screw threaded through said bridge in line with and extending through said perforation in said armature and making contact with said U-shaped retractile spring in such manner as to thereby adjust the stress therein, adjustable contact points and current carrying members therefor.

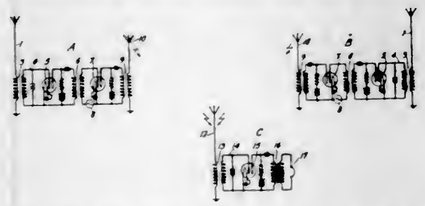
1,478,046. GAME-TABLE CUSHION. CHARLES P. MILLER, Mount Vernon, N. Y., assignor to The Brunswick-Balke-Collender Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 18, 1923. Serial No. 613,339. 3 Claims. (Cl. 46—11.)



1. A game table cushion of a generally triangular shape in cross section having a working face, a top face, and a nose at the juncture of the working face and the top face, and a strip of fabric affixed to said nose throughout its length and terminating a short distance on the working face and on the top face back from said nose.

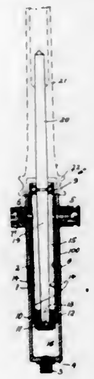
1,478,047. RADIO RECEIVING SYSTEM. JOHN MILLS, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 22, 1920. Serial No. 432,415. 13 Claims. (Cl. 250—20.)

1. A method of receiving signal waves which comprises separately receiving a plurality of sets of incoming waves, giving the received waves a definite phase relation, separately modulating a plurality of carrier waves by said received waves, transmitting said modulated



waves over two radiant energy paths, and receiving and combining the modulated waves, thereby suppressing interfering waves.

1,478,048. SPINDLE MOUNTING. RICHARD MÜNZENMAIER, ADOLF MÜNZENMAIER, and HEINRICH MÜNZENMAIER, Stuttgart-Cannstatt, Germany. Filed May 16, 1922. Serial No. 561,302. 2 Claims. (Cl. 64—75.)



1. In a spindle mounting of the character set forth, in combination, a supporting case, a bolster member in said case including a roller bearing near the upper extremity and an adjustable step bearing closing its lower extremity, said bolster member presenting on its outer circumference parallel, equidistantly spaced longitudinally directed recesses, flat outwardly curved springs rigidly secured at one end to said bolster member and their other free ends operable in said recesses, for normally equidistantly spacing said bolster member within said case practically all over its length, and means for relatively freely pendulously supporting said bolster member and for simultaneously preventing both relative longitudinal and rotary displacement thereof, comprising a fulcrum member operable near the upper extremity of said case and loosely engageable in said bolster member at a single point of its circumference.

1,478,049. CLIP ATTACHMENT FOR POCKET-CARRIED DEVICES. ALBERT U. NELSON, Portland, Oreg. Filed May 25, 1922. Serial No. 563,578. 1 Claim. (Cl. 24—11.)

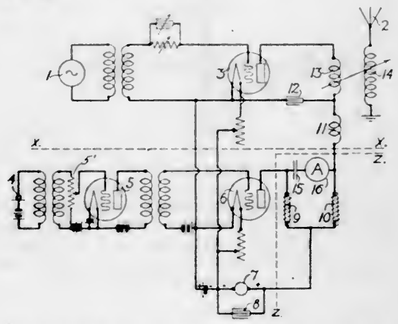
A one piece clip attachment for a pocket-carried device comprising a split annular body adapted to be affixed on said device, an integral short arm projecting perpendicularly from one side of said body, an integral arm of substantial length projecting perpendicularly from the opposite side of the body, the extremity of the latter arm being tapered to narrow width, and being curved back against the shank of said arm in the form of a loop of substantial diameter having a smooth

rounded exterior surface, the shanks of both arms lie substantially in the same plane, whereby when the device provided with said clip is inserted in the pocket said long arm of the clip will ride on the surface of the pocket material, and thus exert a leverage effect



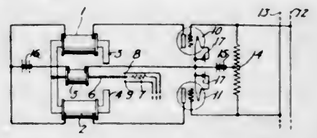
tending to rock the clip longitudinally, which however is resisted by said short arm bearing upon said device, and thus the extremity of the long arm will be caused to exert a firm hold upon the pocket material in bearing against said device.

1,478,050. MODULATION CIRCUITS AND MEASUREMENT. EDWARD L. NELSON, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 26, 1922. Serial No. 584,393. 10 Claims. (Cl. 250—6.)



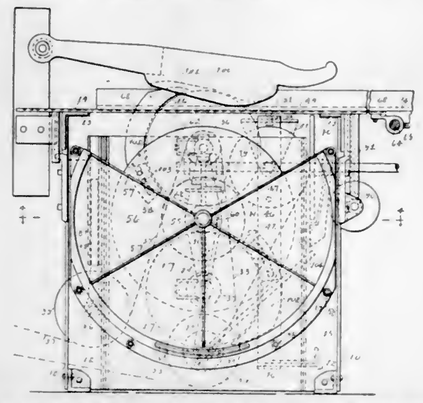
1. In a modulating system, a source of carrier waves, a source of modulating waves and a device having an indicator moving over a calibrated scale, said device being responsive to current intensities and included in circuit with said sources to indicate the degree of modulation.

1,478,051. RELAY. HAROLD W. NICHOLS, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 16, 1920. Serial No. 374,453. 6 Claims. (Cl. 178—71.)



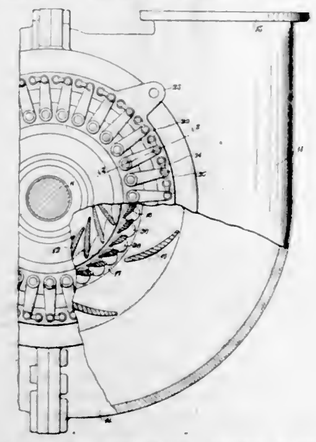
1. In a signaling system, a biased armature, means for polarizing said armature, two operating windings arranged to cooperate with said armature so as to effect its actuation, a signaling path, means for energizing one of said operating windings only upon the receipt of positive current impulses, and means for energizing the other of said operating windings only upon the receipt of negative current impulses.

1,478,052. SAWING MACHINE. JOSEPH W. OLIVER, Grand Rapids, Mich. Filed Nov. 19, 1919. Serial No. 339,141. 5 Claims. (Cl. 143—45.)



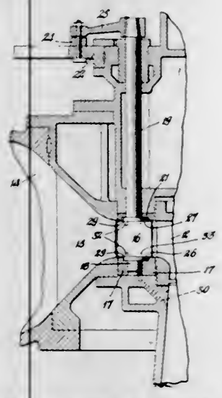
1. In a machine of the character described; a rotatable carrier provided with a wheel for rotating the same; saws rotatably mounted on the carrier; means for rotating the saws; a rotatable element adapted to rotate by its rotative movement said wheel and carrier; a second wheel axially-transversely disposed to the axis of said rotatable element and movable into and out of operative contact with said element for rotating the same; means for rotating the second wheel driven by the means for rotating the saws.

1,478,053. GUIDE VANE FOR HYDRAULIC TURBINES. JOHN OVERN, Jr., Philadelphia, Pa., assignor to William Cramp & Sons Ship and Engine Building Company, a Corporation of Pennsylvania. Filed May 22, 1919. Serial No. 298,982. 12 Claims. (Cl. 253—122.)



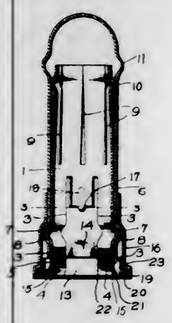
1. In a hydraulic turbine, an annular plate at the water inlet to the runner, a series of wicket gates at said inlet, rotatable shafts each carrying a respective gate, and an enlarged collar where each shaft joins its gate, said annular plate having recesses to receive the respective collars.

1,478,054. GUIDE VANE FOR HYDRAULIC TURBINES. JOHN OVERN, Jr., Philadelphia, Pa., assignor to William Cramp & Sons Ship and Engine Building Company, a Corporation of Pennsylvania. Original application filed May 22, 1919, Serial No. 298,982. Divided and this application filed Nov. 13, 1922. Serial No. 600,626. 10 Claims. (Cl. 253—122.)



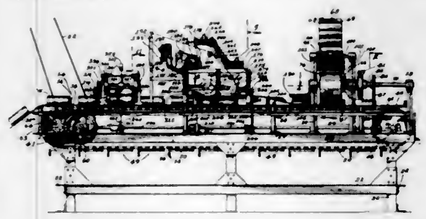
1. In a hydraulic turbine, an annular plate at the water inlet to the runner, a series of wicket gates at said inlet, rotatable shafts each carrying a respective collar, and a detachable connection between each collar and a respective gate, said annular plate having recesses to receive the respective collars.

1,478,055. DUST CAP FOR TIRE VALVES. EDWARD H. PARKER, Somerville, Mass., assignor, by direct and mesne assignments, to Pushpull Valve Cap Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 1, 1920. Serial No. 370,523. 14 Claims. (Cl. 152—12.)



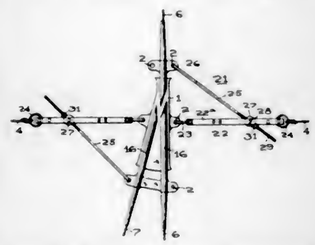
1. In a dust cap, the combination with an inner cylindrical member which is slit at its ends so as to be capable of expanding and being contracted, of an outer member slidably mounted on the inner member, said outer member being closed at one end and provided at said closed end with an internal groove, said inner member having at its corresponding end beads formed on the split portions which expand into interlocking engagement with the groove to yieldingly hold the two members in one of two adjustable positions, the opposite ends of the inner member being formed to normally expand and the open end of the outer member being formed to encircle and contract the said opposite end to hold the dust cap in position when the groove and beads are interlocked, movement of the outer member to allow the contracted end to expand being limited by coacting portions on the outer and inner members.

1,478,056. PACKAGING MECHANISM. JONATHAN PETERSON, Brooklyn, N. Y., and JAMES C. THOM, Chicago, Ill., assignors to Combination Machine Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 14, 1921. Serial No. 452,028. 86 Claims. (Cl. 93—7.)



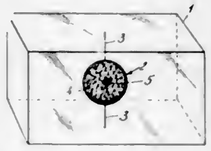
1. In packaging mechanism, means for advancing a wrapper associated with superposed package contents consisting of a substantially cylindrical column of similar articles, in the axial direction of said column, means for folding the wrapper about the article column, and means for applying flanged caps to the ends of the package.

1,478,057. ADJUSTABLE TROLLEY-FROG DEVICE. HARRY A. PHARO, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 29, 1922. Serial No. 571,728. 9 Claims. (Cl. 191—38.)



1. A trolley-frog adjusting device comprising a member adapted to be attached to a cross-span cable and a second member adapted to be connected to a trolley conductor and to said first member, said second member being provided with means for varying its length.

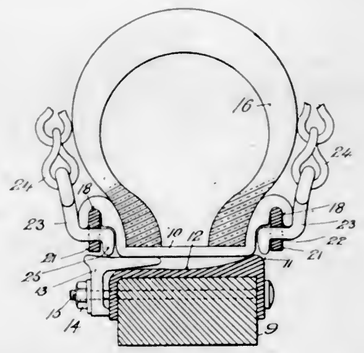
1,478,058. MODEL FOR ILLUSTRATING CELL DIVISION. PHILIP HUNTLEY POPE, Portland, Oreg. Filed Oct. 2, 1922. Serial No. 591,688. 11 Claims. (Cl. 35—16.)



1. A model of the type described comprising a cell wall consisting of transparent material, and plastic bodies within the cell wall representing the other parts of the cell.

1,478,059. ANTISKID DEVICE FOR PNEUMATIC TIRES. ROBERT E. PYE, New York, N. Y. Filed Nov. 11, 1919. Serial No. 337,371. 3 Claims. (Cl. 152—14.)

1. In an anti-skid device for vehicle wheels, the combination with a tire and means including a tire rim for supporting the same, of annular ring members disposed at opposite sides of the tire and carried by said tire rim, and mounted for free annular movement, and flexible members to extend across the tread of the tire and detachably connected to said annular ring members.



1,478,060. PROCESS FOR MAKING SHEET-METAL CONTAINERS. WALTER H. RICHMAN, Philadelphia, Pa. Filed July 8, 1920. Serial No. 394,647. 6 Claims. (Cl. 113—52.)

1. The herein described process for making sheet metal containers, including rotating a cylindrical tubular metal blank of primarily uniform thickness, while preventing elongation thereof and spinning and swaging the intermediate region of said blank body to reduced diameter; thus forming two circumferential neck grooves axially spaced in substantially symmetrical relation with the middle of the length of said blank, and forming between said neck grooves a toric head zone, of smaller diameter than said blank body and larger diameter than said neck grooves, thereby condensing and thickening the metal of said blank at the region thus reduced in diameter; circumferentially severing said blank at its middle, intermediate of the width of said head zone; thus forming two separate container blanks, each comprising a body portion of the original diameter of said blank, a neck portion of smaller diameter than said blank, and a head portion of larger diameter than said neck portion and smaller diameter than said body portion; and curling the edges of said head portions toward said neck portions and thereby forming a toric lip head upon each of said head portions.

1,478,061. VAT DYE. DONALD G. ROGERS and HAROLD T. STOWELL, Buffalo, N. Y., assignors to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 11, 1922. Serial No. 551,643. 12 Claims. (Cl. 260—31.)

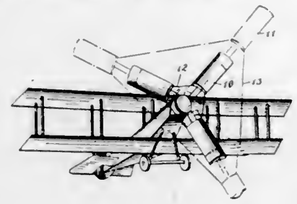
6. The improvement in the manufacture of flavanthrone which comprises suspending about 100 parts of beta-aminoanthraquinone in about 1200 parts of nitrobenzene and gradually adding about 350 parts of antimony pentachloride with vigorous agitation, heating the resulting mixture to a temperature of about 145–150° C. for a period of about 45 minutes, thereby producing a compound of the flavanthrone with antimony pentachloride, then cooling to about 35° C. and filtering, and purifying the crude product thus obtained by heating to about 100° C. with about 1000 parts of nitrobenzene, cooling and filtering.

11. The improvement in the manufacture of flavanthrone, which comprises dissolving the antimony pentachloride compound of flavanthrone in sulfuric acid and adding the solution to water, thereby producing the flavanthrone in a finely divided condition.

1,478,062. DEGASIFYING AGENT. WILLIAM A. SCHEUCH, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 26, 1920. Serial No. 384,354. 3 Claims. (Cl. 22—212.)

1. A degasifying agent for molten materials consisting of an alloy or metallic composition in a solid compact form consisting of a metal of the alkaline earth group and a smaller amount of the metal to be degasified.

1,478,063. VARIABLE PROPELLER. MARIO SCHIESARI, New York, N. Y. Filed July 11, 1922. Serial No. 574,222. 11 Claims. (Cl. 170—162.)



1. In a propeller, the combination of an axle, a plurality of flexible carriers attached thereto and extensible therefrom, plane elements carried by said carriers, and elastic means opposing the extension of said carriers.

1,478,064. NECKTIE HOLDER. LOUIS SCHOLLER, San Francisco, Calif. Filed June 15, 1923. Serial No. 645,577. 4 Claims. (Cl. 24—49.)

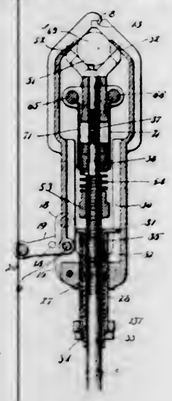


1. A necktie holder comprising two spring pressed telescopic members, one of said members having a stud adapted to be inserted within a button hole in the front of the shirt of the wearer and the other of said members having means to engage the necktie to thereby support it in proper adjusted position.

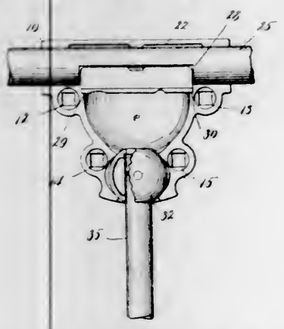
1,478,065. PIPE-CUTTING MACHINE. ARCHIBALD T. SAMPSON, Lynn, Mass., assignor to Sampson Axcess System, Inc., Lynn, Mass., a Corporation of Massachusetts. Filed May 8, 1919, Serial No. 295,747. Renewed June 13, 1923. 23 Claims. (Cl. 81—192.)

1. A machine of the class described adapted for forming spaced cuts, having a pair of pivotally mounted cutters provided with cutting edges at either side thereof,

means for oscillating said cutters on their pivot points to bring said cutting edges alternately into cutting position, and means for moving said cutters into and out of engagement with the work, in combination with means to hold the work and cutters into operative engagement.



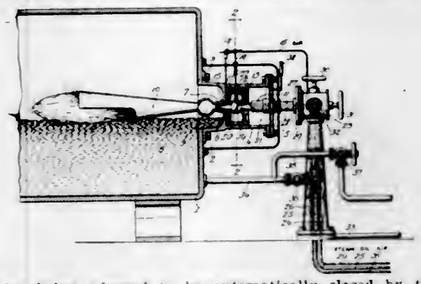
1,478,066. LIGHTING AND POWER FIXTURE. ARCHIBALD T. SAMPSON, Lynn, Mass., assignor to Sampson Axcess System, Inc., Lynn, Mass., a Corporation of Massachusetts. Filed Feb. 19, 1920. Serial No. 359,903. 6 Claims. (Cl. 247—15.)



1. In a device of the class described, the combination of a pair of cooperating members each containing a plurality of depressions defining, a conduit receiving, a wire terminal, and a ball joint, chamber, respectively, and means for clamping said cooperating members together.

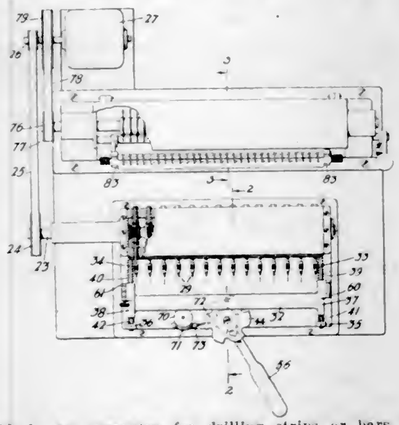
1,478,067. INTERNAL-COMBUSTION BOILER. ALEXANDER SEIDLER, Chicago, Ill., assignor, by mesne assignments, to F. C. Austin Machinery Company, a Corporation of Illinois. Filed Aug. 30, 1918. Serial No. 252,067. 3 Claims. (Cl. 60—45.)

1. The combination of a boiler for containing water to generate steam and means for causing combustion within the boiler so that the products of combustion serve to augment the pressure derived from the generation of steam, said means comprising an explosion chamber communicating with the interior of the boiler, a nozzle arranged to discharge into said chamber instrumentalities for supplying hydrocarbon with air or steam, or with both, a mixing chamber in which the hydrocarbon and air or steam, or both, are mixed to form a primary mixture, a valve automatically opened by the pressure in the mixing chamber to admit the mixture to said nozzle, and means automatically controlled by said valve to admit air to said explosion chamber, said



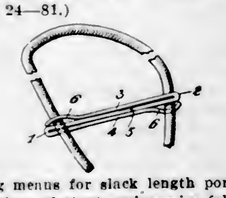
valve being adapted to be automatically closed by the explosion to prevent the back pressure from entering said mixing chamber.

1,478,068. APPARATUS FOR DRILLING AND CUTTING. JOHN N. SELVIG, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 22, 1920. Serial No. 367,727. 18 Claims. (Cl. 29—26.)



10. In an apparatus for drilling strips or bars, the combination of a plurality of rotating drills, a carrier movable toward and from said drills, a plurality of revolving saws, a pivoted holder movable toward and from said saws, a jig adapted to have a workpiece secured therein perforated to correspond to the drills and slotted to correspond to the saws, means for securing the jig in the carrier to move the workpiece into cooperation with the drills, means for positioning the jig in the holder to move the workpiece into cooperation with the saws, and a source of power for rotating the drills and revolving the saws.

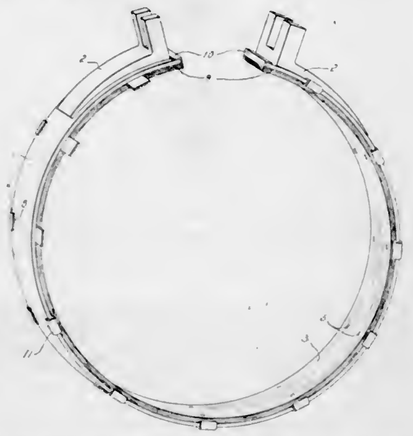
1,478,069. NONTWISTING DEVICE FOR TELEPHONE AND OTHER CORDS. JAMES E. SIMPSON, Brooklyn, N. Y. Filed Oct. 19, 1922. Serial No. 595,656. 1 Claim. (Cl. 24—81.)



Non-twisting means for slack length portions of cords comprising a piece of stout spring wire folded into three parallel members lying approximately in the same plane

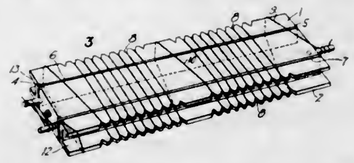
each of the outer members having its end bent to co-act with an adjacent end of the central member, thereby forming a loop to receive and tensionally engage a cord.

1,478,070. BRAKE BAND. ALVIN H. SWEET, Los Angeles, Calif., assignor, by direct and mesne assignments, to Title Guarantee and Trust Company, trustee, Los Angeles, Calif. Filed Feb. 8, 1923. Serial No. 617,775. 4 Claims. (Cl. 188—249.)



3. A brake band lining having spaced transverse strips on the back thereof; said strips having an outwardly extending flanged lug at one end and a portion extending beyond the edge of said lining at the other end adapted to be bent outwardly to form a flanged lug; and means for maintaining said lining in fixed angular relation to said band.

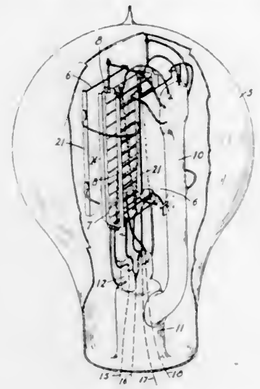
1,478,071. JIG EMPLOYED IN THE CONSTRUCTION OF ELECTRODES. RUSSELL F. TRIMBLE, Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Original application filed Nov. 2, 1918, Serial No. 261,030. Divided and this application filed Apr. 16, 1920. Serial No. 374,419. 5 Claims. (Cl. 140—71.)



1. A jig comprising front and back plane faces each adapted to receive longitudinally extending wires, the edges of said faces being serrated in planes perpendicular to said wires, and a groove between adjacent serrated edges.

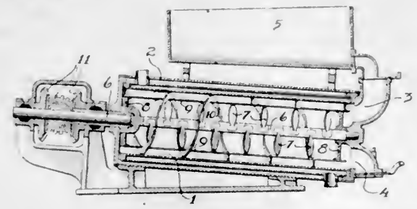
1,478,072. VACUUM TUBE. HENDRIK J. VAN DER BIJL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 20, 1918. Serial No. 223,605. 4 Claims. (Cl. 250—27.)

1. A vacuum tube comprising an anode, a cathode, and a grid, means for heating said electrodes, ridges on said anode for reinforcing said anode to maintain the spaced relation of said anode and another of said electrodes when said electrodes are subject to heat, and ridges on said grid for re-inforcing said grid to maintain the spaced relation with respect to the remaining electrodes, said ridges on



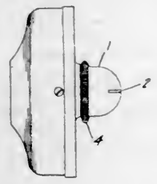
said grid being so positioned as to offer substantially no obstruction to the passage of electrons from said cathode to said anode.

1,478,073. ICE-CREAM FREEZER. STEPHEN J. VAN KUREN, Cedar Rapids, Iowa, assignor to J. G. Cherry Company, Cedar Rapids, Iowa, a Corporation of Iowa. Filed July 25, 1921. Serial No. 487,364. 9 Claims. (Cl. 259—6.)



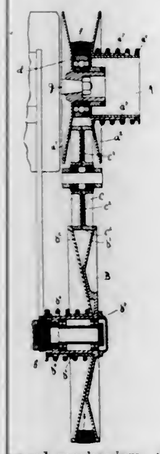
1. In an ice-cream freezer, a mixing chamber, a helical scraper and beater rotatably mounted in said chamber and extending substantially from end to end in close proximity to the inner wall of said chamber, and a plurality of oppositely directed beater elements within said helical scraper and beater.

1,478,074. TELEPHONE-TRANSMITTER MOUTHPIECE. LEON VAN RUTTEN, Antwerp, Belgium, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 5, 1922. Serial No. 549,817. 3 Claims. (Cl. 179—187.)



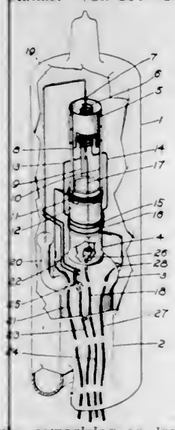
1. A dome-shaped telephone transmitter mouthpiece having narrow slots for the admission of sound waves cut in the top of the dome.

1,478,075. VARIABLE GEAR. NORMAN WEBSTER, Moortown, Leeds, England, assignor to Philipson and Company Limited, Bolton, Lancaster, England. Filed May 7, 1923. Serial No. 637,130. 6 Claims. (Cl. 74—26.)



1. In a variable speed mechanism, the combination of two expanding pulleys having peripheral grooves, a drive belt connecting said pulleys and a wheel between said pulleys adapted to operatively engage said grooves.

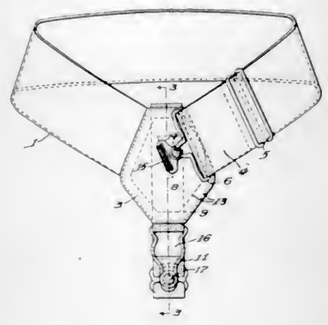
1,478,076. ELECTRON-DISCHARGE DEVICE. HOWARD W. WEINHART, Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 7, 1919. Serial No. 315,833. 6 Claims. (Cl. 250—27.)



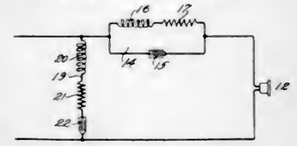
1. A vacuum tube comprising an inwardly projecting portion, a cathode, a grid surrounding said cathode, metallic supporting members extending from said grid, and means for clamping said members to the outer surface of said inwardly projecting portion.

1,478,077. MAN'S GARTER. MORRIS WEINSTEIN, New York, N. Y., assignor to Star Suspender and Garter Co., New York, N. Y., a Firm composed of Max Novick, Joseph Taylor, Jacob Taylor, Morris Weinstein, Jacob Davis, Isadore M. Novick, and Emanual Taylor. Filed Mar. 3, 1922. Serial No. 540,669. 4 Claims. (Cl. 241—6.)

1. A garter comprising a pad having a stud stitched to the pad, a band stitched to one end of the pad and having a fastening device on the other end adapted to engage said stud, a pendant extending longitudinally within said pad and retained therein by stitching at the ends of said pad and by the stitching of the stud, the latter stitching securing the stud, the pad and the pendant together, a stocking grip secured to said pendant, a flexible member connected at one end to said pad, and a stud carried by the free end of said member to engage said grip.

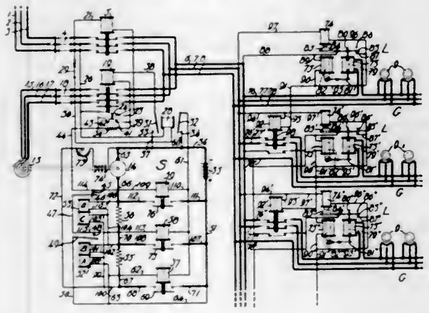


1,478,078. EQUALIZING NETWORK. EDWARD C. WENTE, Port Washington, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 6, 1921. Serial No. 482,729. 7 Claims. (Cl. 178—44.)



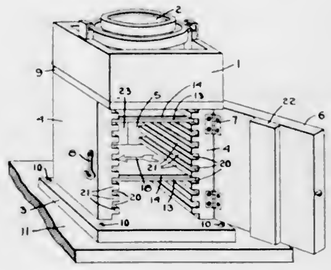
1. In combination, a receiver adapted to be connected to a source of multi-frequency currents, the sound producing portion of said receiver being non-uniformly responsive to currents of different frequencies, and means for equalizing said response, said means comprising a parallel tuned circuit in series with said receiver and a series tuned circuit in parallel with a path comprising said receiver.

1,478,079. ELECTRICAL DISTRIBUTION SYSTEM. LEWIS C. WESCOAT, Corona, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 24, 1921. Serial No. 502,984. 21 Claims. (Cl. 171—312.)



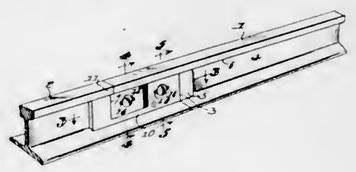
1. In a system of electrical distribution, a plurality of translating devices, a source of current serving to normally supply said translating devices with energy, an emergency source of current normally inoperative, means for putting said emergency source in operation when said first source fails, and further means serving to connect said translating devices when said emergency source is in full operation.

1,478,080. COMPASS-DEVIATION CORRECTOR. WILFRID O. WHITE, Waban, Mass. Filed July 20, 1922. Serial No. 576,272. 3 Claims. (Cl. 33—225.)



1. A compass deviation corrector comprising a cabinet to be mounted beneath and centrally of a compass, a plurality of similar flat quadrilaterally symmetrical plates provided with interior magnetic elements having like poles similarly disposed and with exterior indicia having a prescribed relation to the poles, and means for supporting the plates in the cabinet at various vertical positions, in horizontal parallelism, in central alignment and with the poles in either of the four directions.

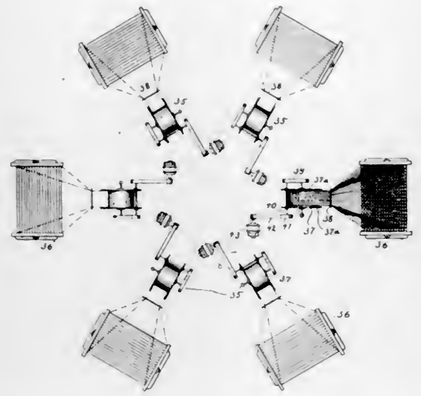
1,478,081. RAIL JOINT AND SPLICE. JOHN WHITE, Houston, Tex. Filed June 23, 1923. Serial No. 647,283. 4 Claims. (Cl. 238—235.)



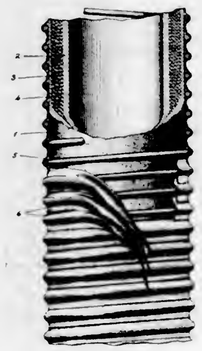
1. In a rail joint, the combination with the adjacent ends of a pair of rail sections, the extremities of said rail sections having recesses adapted to receive tongues corresponding in thicknesses to the width of the recesses and offset thereto, the base of one rail and the head of the other rail being cut away, whereby the rail sections may overlap, thereby permitting the recesses and tongues to interengage, and means passing through the rail sections where the tongues and recesses interengage for fastening the recesses together, one rail section having a cut away portion between its respective tongue and recess, for the reception of a thickened portion between the tongue and recess of the other rail section.

1,478,082. WARPING PROCESS. CLEVELAND WHITLOCK, Brooklyn, N. Y. Filed Jan. 13, 1922. Serial No. 528,902. 7 Claims. (Cl. 28—33.)

1. A composite warping process comprising the filling of separate and individual warp drums of similar construction and capacity with threads of predetermined quality and length, the assembling of these individual drums into a composite warp drum and the substitution of this composite warp drum for the integral one-piece warp drum in the usual process of beaming-off warps, as hitherto practiced.



1,478,083. WIRE-WOUND HOSE. ROBERT B. WHITMARSH, Los Angeles, Calif., assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed May 4, 1923. Serial No. 636,555. 11 Claims. (Cl. 137—90.)

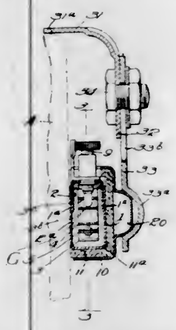


1. A hose having a reinforcement of wire laid in open-spaced turns and an external cloth wrapping adhesively binding the wire upon the surface of the hose.

1,478,084. THERMOSTATIC SIGNAL-OPERATING DEVICE. FREDERIK G. WHITTINGTON, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Feb. 11, 1921. Serial No. 444,134. 8 Claims. (Cl. 200—138.)

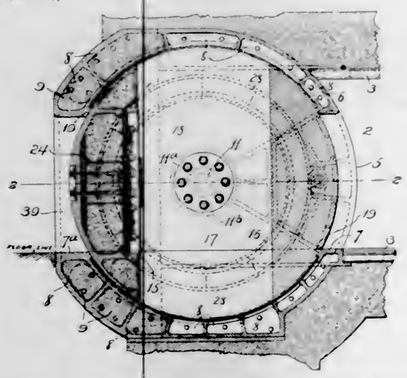
8. A device for the purpose indicated, consisting of a double walled casing with interspace between the walls, adapted to be mounted against the heated surface of the body of an engine to be served with direct

metallic connection from said heated surface to the inner wall at one side, circuit terminals and a temperature responsive circuit closing member mounted and



enclosed within the case, the interspace between said enclosed parts and the wall of the case being filled with oil.

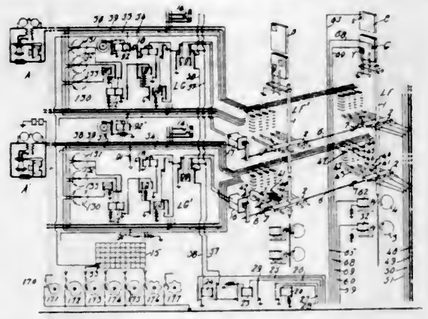
1,478,085. VAULT CLOSURE STRUCTURE. JAMES H. WILLIAMS, Philadelphia, Pa., assignor to Remington & Sherman Company, Philadelphia, Pa. Filed July 17, 1922. Serial No. 575,717. 11 Claims. (Cl. 109—1.)



1. In a vault closure, the combination of a revoluble door structure comprising two spaced members, one of said members constituting a walk-way when the door is open, and means whereby said door structure may be mounted to turn on a horizontal axis.

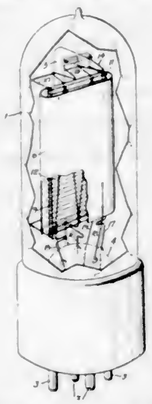
1,478,086. TELEPHONE-EXCHANGE SYSTEM. SAMUEL B. WILLIAMS, Jr., Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Original application filed Apr. 17, 1918, Serial No. 229,035. Patent No. 1,400,120, dated Dec. 13, 1921. Divided and this application filed May 14, 1921. Serial No. 469,493. 7 Claims. (Cl. 179—10.)

1. In a telephone system, the combination with two telephone lines, a source of current, a service meter for one line connected with one pole of said source, a service meter for the other line connected with the other pole of said source, a connecting circuit, means for extending either of said lines to said connecting circuit, a switch for simultaneously applying both poles of said source of current to said connecting circuit, electro-magnetic apparatus associated with said connecting circuit for automatically continuing the connection with the connecting circuit of that pole of the source of current adapted to effect the operation of the



service meter of the extended line, and disconnecting the other pole of said source of current, and means for preventing the operation of the aforesaid switch when no line is extended to said connecting circuit.

1,478,087. VACUUM TUBE. WILLIAM WILSON, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 21, 1919. Serial No. 339,744. 5 Claims. (Cl. 250—27.)



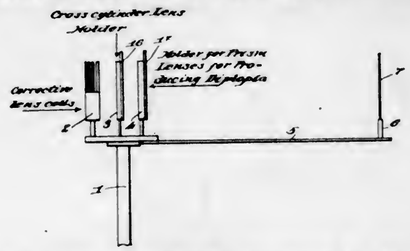
1. A vacuum tube comprising a cathode and another electrode, said cathode comprising a plurality of intertwined twisted ribbons of thermionically active material.

1,478,088. METHOD OF VULCANIZING RUBBER. HERBERT A. WINKELMANN and HAROLD GRAY, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Sept. 9, 1921, Serial No. 499,536. Renewed Nov. 2, 1923. 4 Claims. (Cl. 18—53.)

1. The herein-described method which comprises vulcanizing rubber with an admixture of a vulcanizing agent and potassium glycero phosphate.

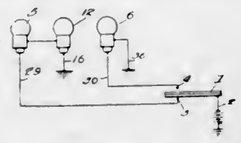
1,478,089. METHOD OF TESTING EYES. JESSE WOLFF, Spokane, Wash. Filed Dec. 18, 1922. Serial No. 607,685. 12 Claims. (Cl. 88—20.)

1. The herein-described method of testing the efficiency of accommodation to a minute degree of eyes naturally or previously rendered emmetropic, which consists in subjecting the eyes to an artificial astig-



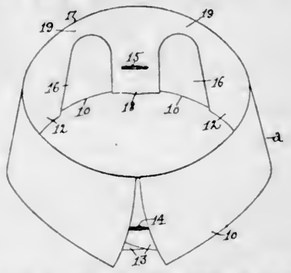
matic condition to stimulate accommodation, and in then testing for the proper lens power to relieve the ciliary muscles and render accommodation efficient.

1,478,090. ELECTRIC SIGNAL FOR INTERNAL-COMBUSTION ENGINES. ANDREW C. WOOD, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Sept. 9, 1922. Serial No. 587,181. 8 Claims. (Cl. 177—351.)



1. A combined parking light and engine temperature signal for motor vehicles consisting of a casing adapted to be suitably mounted on the vehicle for casting illumination both forwardly in the direction of travel and rearwardly for observation by the driver; front and rear cover glasses for the casing; three signal lamps in the casing; means obscuring one of them rearwardly and permitting it to cast illumination forwardly; means obscuring the other two forwardly and permitting them to cast illumination rearwardly; means for distinguishing the rearwardly illuminating lamps from each other by color; two circuits in which said lamps are energized, the forwardly illuminating lamp and one of the rearwardly illuminating lamps being in series in one circuit, and the other rearwardly illuminating lamp being in the other circuit, and a thermostatically operated switch influenced by engine temperature for closing said circuits alternatively according to engine temperature.

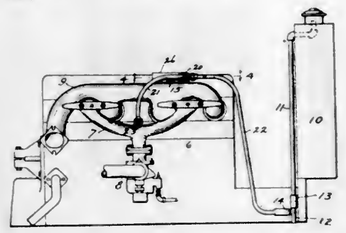
1,478,091. COLLAR. GEORGE H. WOODS, Somerville, Mass. Filed Jan. 14, 1922. Serial No. 529,134. 1 Claim. (Cl. 2—67.)



A turned-over collar provided with an outer member and with an inner member or band connected with said outer member and of substantially the height or width of said outer member and provided at its rear portion with a button-hole and with a recess or opening on each side of the button-hole and in close proximity thereto, each

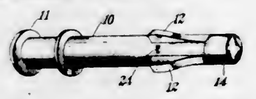
of said openings extending from the bottom to near the fold of said collar and having a width equal to at least one-half of its height for a distance of at least two-thirds of the height of said collar, said openings being confined to the rear half of the collar, said recesses providing spaces in the inner band to diminish the friction of the tie in adjusting the same while retaining a material length of the inner band member on opposite sides of said openings for guiding the tie.

1,478,092. VAPORIZER FOR HYDROCARBON ENGINES. CHARLES A. WULF, Indianapolis, Ind. Filed Sept. 3, 1920. Serial No. 407,900. 1 Claim. (Cl. 123—25.)



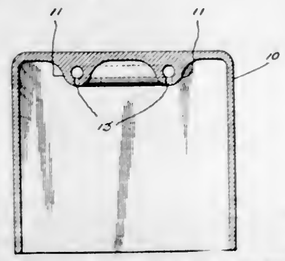
In a device of the class described, the combination with a radiator overflow pipe in two parts, a flexible connection between the two parts, the part most remote from the radiator having a lateral branch, an engine intake manifold, a pipe line connecting the lateral branch of the overflow pipe with the manifold, a valve in said line, a thermostat operated by heat from said radiator to open the valve and means in the thermostat to prevent the chattering of the valve.

1,478,093. THREADLESS BOLT. PETER BALLAZ, West New York, N. J. Filed Mar. 14, 1923. Serial No. 624,972. 3 Claims. (Cl 85—5.)



1 A device of the class described comprising a bolt consisting of a main body having a head at one end, a longitudinally adjustable part on the other end of said main body, radially adjustable latches carried by said part, a hinged locking element carried by said main body within the confines thereof, said part presenting a series of longitudinally spaced elements adapted to be releasably engaged by said locking element to hold the said part locked to the said main body.

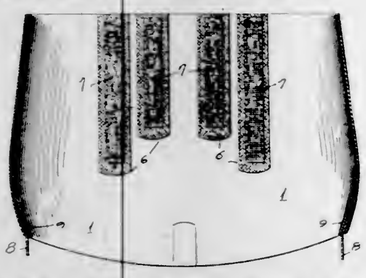
1,478,094. OILING SYSTEM. HARRY D. BARBEIT, Niles, Mich. Filed Dec. 30, 1922. Serial No. 609,962. 1 Claim. (Cl. 184—6.)



The combination with a valve in the head engine cover, of a substantially U-shaped pipe arranged longitudinally of the cover and embedded therein, the parallel portions

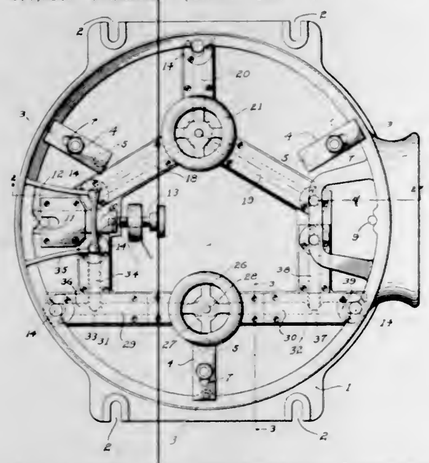
of said pipe being perforated, and openings into the interior of the cover, said perforations being successively increased in diameter from one end of the pipe to the other, one end of said pipe being closed, an oil line, a conduit terminally connected with the oil line and the other end of said pipe, a valve arranged in said conduit for controlling said communication, and a valve operating rod associated with the valve, whereby the latter can be operated from a remote point.

1,478,095. FLESH-REDUCING GARMENT. LILLIAN M. BENDER, San Francisco, Calif. Filed May 17, 1922. Serial No. 561,775. 3 Claims. (Cl. 2—73.)



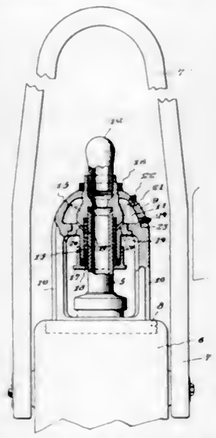
3. A flesh reducing garment comprising a one-piece body of sheet rubber adapted to conform to and compress the body of the wearer, said body portion having a vertical opening extending the entire length thereof, a strip of rubber attached to one edge of the opening and adapted to extend across the opening, rubberized fabric strips adhesively attached to the opposed edges of the opening, eyelet bearing strips secured to said rubberized fabric strips, strips of rubberized fabric material adhesively attached to the body portion of the garment and extending vertically thereof, fabric pockets attached to the last named strips, and reinforcing means in said pockets.

1,478,096. WORKHOLDING DEVICE. HARRY S. BERGEN, Toledo, Ohio. Filed June 13, 1921. Serial No. 477,130. 7 Claims. (Cl. 90—59.)



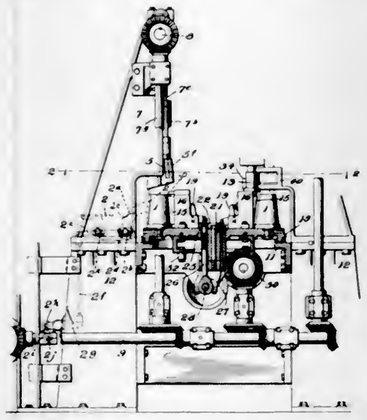
1. In a device of the class described, in combination, a plurality of self-positioning supporting members, and means for simultaneously clamping said supporting members in supporting position, said clamping means comprising a plurality of clamping members and a floating wedging device for forcing said clamping members into engagement with the supporting members.

1,478,097. HYDRAULIC SWIVEL. LEE J. BLACK, Beaumont, Tex. Filed Aug. 19, 1922. Serial No. 582,949. 5 Claims. (Cl. 255—25.)



1. In a hydraulic swivel, a hollow water-head forming an oil reservoir, a stuffing box carried by said head and provided in the wall of its packing space with oil ports to permit saturation of the packing in said space, and a swivel stem extending into said stuffing box and in wiping contact with said packing.

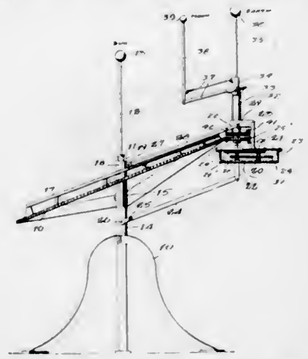
1,478,098. MACHINE FOR MAKING PAPER CONTAINER BODIES AND THE LIKE. JOSEPH T. BOND, Phoenix, N. Y., assignor, by mesne assignments, to Oswego Falls Corporation, Fulton, N. Y., a Corporation of New York. Filed June 13, 1921, Serial No. 477,215. Renewed Nov. 2, 1923. 40 Claims. (Cl. 93—39.)



1. A mandrel, in combination with a former alined with the longitudinal axis of said mandrel and reciprocatory toward and from the same to fold a free end flat blank around the mandrel with its ends overlapping to form a seam.

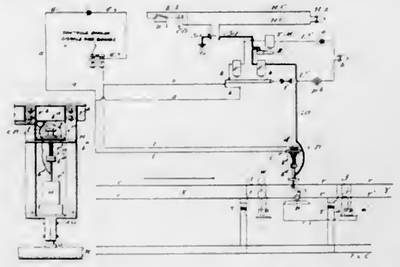
1,478,099. TERRESTRIAL PLANETARIUM. BENJAMIN F. BOUNDS, Pondcreek, Okla. Filed Aug. 21, 1922. Serial No. 583,300. 3 Claims. (Cl. 35—3.)

1. In a device of the kind described, a vertical shaft having a globe representing the sun at its top, a pair of sleeves on said shaft, a pair of parallel motion links each pivoted to a respective sleeve, a support carried by the outer ends of said arms, a shaft mounted vertically in said support, an inclined cam whereon one of said links rest, an inclined gear ring having the first



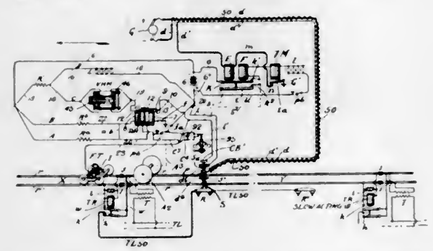
mentioned shaft extending through its center, gearing for revolving the second shaft including a pinion meshing with said inclined gear ring, and a globe representing the earth at the top of said second shaft.

1,478,100. CAB SIGNAL AND AUTOMATIC TRAIN-CONTROL SYSTEM. JOSEPH WHITMAN BUELL, Falls Church, Va.; Wanda A. Buell, executrix of said Joseph Whitman Buell, deceased, assignor to Buell Signal and Train Control Company, Incorporated, a Corporation of Virginia. Filed Mar. 16, 1921. Serial No. 452,695. 5 Claims. (Cl. 246—70.)



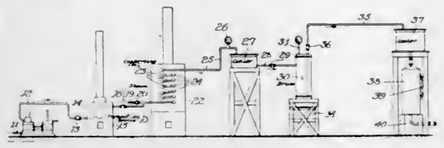
1. In a system of the character described, the combination with a closed circuit operating to stop a train by the breaking of said circuit, of a loop extension included in said circuit, a circuit breaker included in said loop, a contact shoe carried by the train for actuating said circuit breaker, a bridging loop for completing the first mentioned loop to form a by-path, and an electro-magnet for opening and closing the last mentioned loop, a partial circuit carried by the train that terminates respectively in connection with said shoe and with a ground through the wheels of the train, a source of electric energy for said partial circuit, the first mentioned electro-magnet included in said partial circuit, an armature for said electro-magnet, that controls by its movement the bridging loop, a local circuit for holding the armature of said electro-magnet in attracted position and for breaking said partial circuit, and a track mechanism consisting of a closed track-circuit in each block, including a track-relay in the rearward end of each block, a local track loop at the forward end of each block through the track relay contacts at the block immediately in advance, and a ramp located along the right of way in the pathway for engagement with said shoe, said ramp being included in the track loop.

1,478,101. DUALISTIC CAB SIGNAL AND AUTOMATIC TRAIN-CONTROL SYSTEM. JOSEPH WHITMAN BUELL, Washington, D. C.; Wanda A. Buell, executrix of said Joseph Whitman Buell, deceased, assignor to Buell Signal and Train Control Company, Incorporated, a Corporation of Virginia. Filed Sept. 14, 1921. Serial No. 500,673. 18 Claims. (Cl. 246—57.)



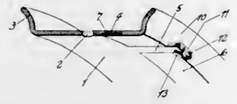
1. The combination with a train carried electro-magnet governing means, of a normally closed circuit therefor, and a series of all-rail track circuits, a dual system of control and operation interposed between said track circuits and said electro-magnetic governing means to act on said magnet governing means, one system operating according to an electrical mode of operation and the other according to an electro-mechanical mode of operation and both responding under the influence of a given track circuit.

1,478,102. ART OF TREATING OILS. EDGAR M. CLARK, Westfield, NATHANIEL E. LOOMIS, Elizabeth, and JAMES R. CARRINGER, Hillside, N. J., assignors to Standard Development Company, a Corporation of Delaware. Filed Dec. 26, 1919. Serial No. 347,308. 7 Claims. (Cl. 196—25.)



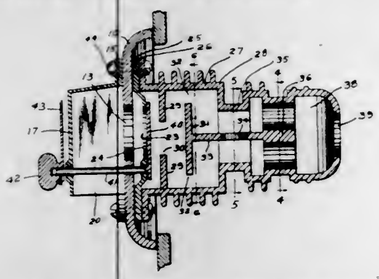
2. The process of treating heavy viscous petroleum oil for breaking down its viscosity which consists in preheating the oil to a temperature of 400 to 500° F., forcing the preheated oil through a heated coil whereby the oil is heated to a temperature above 700° F. and cooling the oil before a substantial quantity of low-boiling-point hydrocarbons have been formed therein, a pressure being maintained upon the oil throughout sufficient to hold it substantially entirely in the liquid phase.

1,478,103. DEMOUNTABLE RIM. WILLIAM R. COULSON, Sturgeon, Mo. Filed Oct. 16, 1922. Serial No. 594,774. 4 Claims. (Cl. 301—35.)



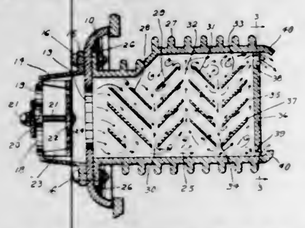
1. A rim comprising a pair of cylindrical section telescoping portions at the adjacent edges of said sections, arms integral with one of said sections extending beyond the outer edge of the other section, and latches at the outer side of said other section for engaging said arms to hold said sections together.

1,478,104. DEVICE FOR PROMOTING THE COMBUSTION OF CARBON-MONOXIDE GAS. JAMES W. CRAIG, Providence, R. I. Filed May 26, 1921. Serial No. 472,739. 2 Claims. (Cl. 110—175.)



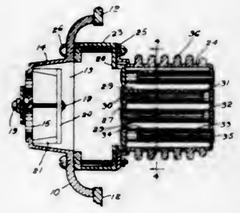
1. In a combustion promoting device for furnaces, the combination with a door having an opening therein communicating with the combustion chamber, of an outer casing carried on the outside of the door positioned about said opening, an inner heating casing secured to the inner side of said door and having a discharge opening at its inner end, the inner side of said casing being provided with baffle plates to cause the air to take a circuitous course in passing therethrough, said inner casing being provided with three spaced chambers connected by narrow neck portions, the first of said chambers being provided with a pair of vertically disposed and inwardly projecting baffle plates spaced apart at their inner ends and having a vertical transversely disposed baffle plate arranged behind said first two baffle plates and spaced therefrom, said vertical baffle plate being spaced from the upper and lower walls of said chamber, a horizontal longitudinally disposed baffle plate extending from said vertical baffle plate through said first chamber and said second chamber, a wall between said second and third chambers to which said horizontal baffle plate is connected, said wall having openings therein communicating said second and third chambers, said horizontal baffle plate having an opening therethrough at a point between said first and second chambers, said third chamber having a discharge opening therein.

1,478,105. DEVICE FOR PROMOTING THE COMBUSTION OF CARBON-MONOXIDE GAS. JAMES W. CRAIG, Providence, R. I., assignor to Carbon Monoxide Burner Company, Providence, R. I., a Corporation of Rhode Island. Filed July 9, 1921. Serial No. 483,470. 6 Claims. (Cl. 110—175.)



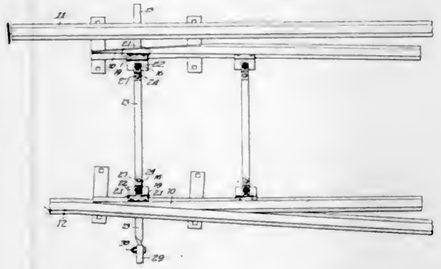
1. In a combustion promoting device for furnaces, a stoking door having an air opening therethrough, an air-receiving and heating casing on the outside of said door, adjustable means for regulating the amount of air to be received into said casing, a cooperating air heating casing supported on the inner face of said door and provided with a plurality of series of cooperating air-deflecting vanes the adjacent sets of said vanes being oppositely inclined to produce a swirling or circulating effect of the air to facilitate heating the same while passing through said casing.

1,478,106. DEVICE FOR PROMOTING THE COMBUSTION OF CARBON-MONOXIDE GAS. JAMES W. CRAIG, Providence, R. I., assignor to Carbon Monoxide Burner Company, Providence, R. I., a Corporation of Rhode Island. Filed July 25, 1921. Serial No. 487,370. 4 Claims. (Cl. 110—175.)



1. In a combustion promoting device for furnaces, a stoking door, a casing carried on the inner side of said door having a plurality of sets of tubular air heating members, the free ends of said members being arranged in overlapping or staggering relation whereby the entering air is caused to take a zigzag course and pass alternately through said sets of tubes before being admitted into the fire chamber.

1,478,107. RAILWAY-TRACK CONSTRUCTION. HERMAN H. DIEHL, Huntington, W. Va., assignor to The West Virginia Rail Co., Huntington, W. Va., a Corporation of West Virginia. Filed Sept. 25, 1923. Serial No. 664,733. 12 Claims. (Cl. 246—411.)



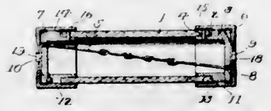
3. In a device of the character set forth, the combination of a point rail, a lengthwise movable bar extending crosswise of said point rail and operatively engaged with said point rail, and means for actuating said bar comprising a connecting bar of channel shape straddling, at one end, an end of said first-referred-to bar, and means pivotally connecting said bars together at their relatively overlapping portions.

1,478,108. PACKING GASKET. WILLIAM DIETER, Brooklyn, N. Y., assignor to Vittlea Development Corporation, a Corporation of Delaware. Filed Oct. 20, 1919. Serial No. 331,954. 6 Claims. (Cl. 288—1.)



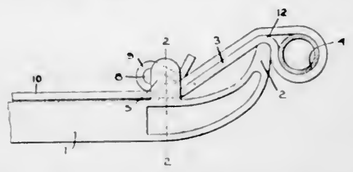
6. A packing gasket for super-high gaseous pressures in the form of a flat ring, having a flat core of a metal of the resisting qualities of copper, having nearly the full dimensions of the gasket, and a surface coating of a relatively soft metal forming a proportionately thin layer on the opposite flat faces of the core.

1,478,109. CARTRIDGE FUSE. EDWARD H. ELLISON, Jamestown, N. Y., assignor to Monarch Refillable Fuse Co., Jamestown, N. Y., a Corporation of New York. Filed Apr. 27, 1920. Serial No. 376,932. 1 Claim. (Cl. 200—132.)



A cartridge fuse comprising an enclosing tube of insulating material, a fuse link therein having end portions of less width than the main body of the link to form shoulders spaced from each end of the link, a washer abutting and closing each end of said casing and provided with a closed slot of width substantially equal to the width of the narrow end of the link, said fusible link extending through said tube and said shoulders abutting the washers, the narrower ends of the link extending through the slots in the washers, and the end of said link being folded over the outer faces of the washers and provided with a fuse amperage mark thereon, and apertured metal caps closing the ends of said casing and forming an electrical connection with the folded ends of said link, the aperture of said caps registering with the indicating marks on said link end.

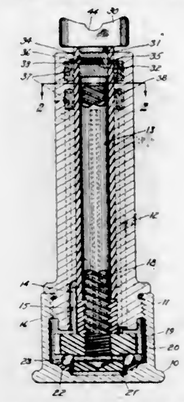
1,478,110. STRAP WRENCH. WILLIAM A. ELLISON, Salem, Mass., assignor to David F. Murphy, Salem, Mass. Filed Aug. 2, 1922. Serial No. 579,121. 1 Claim. (Cl. 81—64.)



A strap wrench comprising a wrench body having a curved gripping nose and also having two arms extending laterally therefrom on the side thereof toward which the nose curves, said arms being connected at their outer ends by a bridge member thereby forming a strap-receiving opening, a wedge-shaped anchoring member occupying said opening, and a strap extending through said opening over said nose and around the article to be gripped and then back over the nose and through said opening again, the end of the strap being bent around the anchoring member and carried a third time through said opening, whereby when the wrench is used the strain on the strap tends to draw the anchoring member into said opening and thereby anchor the end of the strap and clamp the body of the strap between the anchored end and the wrench body.

1,478,111. LIFTING JACK. WILLIAM C. FARNUM, Fitchburg, Mass. Filed Oct. 20, 1921. Serial No. 509,098. 4 Claims. (Cl. 254—103.)

1. A lifting jack having, in combination, a substantially cylindrical base with its upwardly extending portion internally threaded, a cylindrical post threaded in said portion and extending upwardly therefrom, a tubular member slidable but non-rotatable in said post, a lifting screw having a threaded connection to said member, a spur gear fixed to said screw and positioned between portions of said base and post which limit axial movement thereof, and an actuating worm for said gear mounted in a bearing in the side of said base disposed



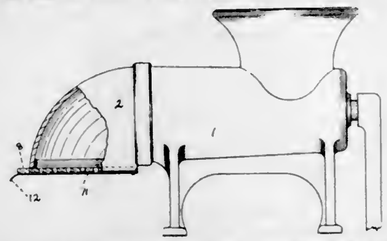
at an oblique angle to the axis of the screw, said worm accurately engaging said gear in any vertical relation of said parts.

1,478,112. TOWEL. FREDERICK ARTHUR FLATHER, Lowell, Mass., assignor to Boott Mills, Lowell, Mass., a Corporation. Filed Jan. 24, 1921. Serial No. 439,616. 2 Claims. (Cl. 45—32.)



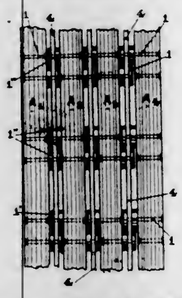
1. A towel of trapezoidal form having equal alternate sides and attaching means approximate to the shorter parallel side.

1,478,113. DEVICE FOR MAKING SANDWICHES. ROBERT O. FRASER, Seattle, Wash. Filed Feb. 13, 1922. Serial No. 536,398. 3 Claims. (Cl. 91—43.)



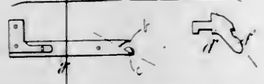
1. A spout, comprising a hollow body having a receiving end adapted to communicate with the discharge opening of a machine for expelling foods in plastic condition, its lower portion terminating in a slotted throat of substantial length, a throat strip detachably mounted therein adapted to distribute thin portions of said food therethrough, a cutter for the food in pivotal engagement with said strip, and means for attaching the receiving end to said discharge opening.

1,478,114. DRIVING BELT. GEORGES GETTING and ADRIEN JONAS, St.-Denis, France. Filed Oct. 25, 1922. Serial No. 596,884. 4 Claims. (Cl. 74—63.)



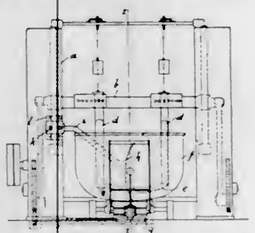
1. A driving belt comprising a plurality of belt elements, each of said belt elements consisting of a plurality of leather strips or thongs, the adjacent edges of the belt elements having projecting portions and recesses, said projecting portions and recesses of one belt element being adapted to interengage with the projecting portions and recesses of the adjacent elements, means connecting together the strips or thongs to form the belt elements and means connecting together the belt elements.

1,478,115. RECTILINEAR KNITTING FRAME FOR THE PRODUCTION OF OPENWORK SINKER WALES. ANDRÉ GILLIER, Troyes, France. Filed Apr. 11, 1921. Serial No. 460,413. 1 Claim. (Cl. 66—28.)



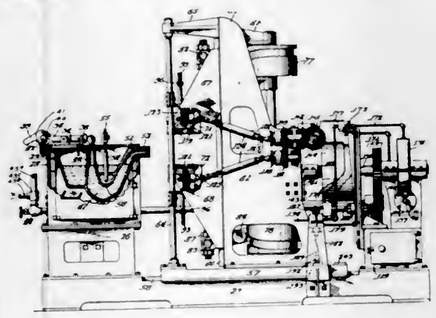
In a rectangular knitting frame, the bed of which comprises all the needles corresponding to the width of the fabric to be produced, means for gathering a thread longer than that forming the ordinary sinker wale, comprising special sinkers each having a nose higher than that of the ordinary sinker and special throwing-off plates co-operating with said special sinkers, and each having a nose higher than that of the ordinary throwing-off plate.

1,478,116. KNEADING MACHINE SPECIALLY FOR DRY AND SLIMY MASSES. PAUL GUNDLACH, Bremen, Germany. Filed Oct. 2, 1922. Serial No. 591,832. 3 Claims. (Cl. 259—87.)



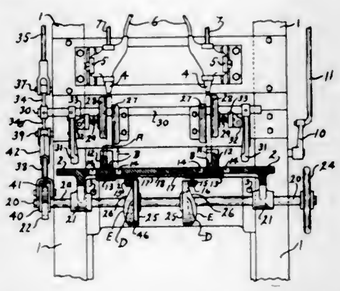
1. In a device of the class described, a rotatable tub to contain a mass of material to be treated, a therein contained stationary turning plate similar to a plough share having a vertical portion extending to near the top of the tub and an angularly arranged portion extending beyond the centre of the bottom of the tub and terminating in a pointed end to respectively contact the side and bottom portions of the tub to simultaneously scrape the same whereby the mass conducted toward it by the rotation of the tub is lifted, turned over, and pushed toward the centre of the tub, and two kneaders arranged in proximity to the centre of the tub to co-operate with said stationary turning plate to knead the said centralized mass, the kneaders being respectively of convex and concave formation.

1,478,117. DIE-CASTING MACHINE. WILLIAM A. HEINZE, Chicago, Ill., assignor to Crane Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 12, 1921. Serial No. 521,608. 36 Claims. (Cl. 22—69.)



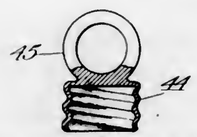
1. In a die-casting machine, the combination of a stationary melting pot and metal-injecting nozzle, and vertically separable die members remote from said melting pot and nozzle and adapted to be opened and closed and to be moved laterally into and out of nozzle tension position.

1,478,118. NAILING MACHINE. EDWARD JAMES HENDERSON, Hamilton, Ontario, Canada, assignor to The P. B. Yates Machine Company, Limited, Hamilton, Ontario, Canada. Filed July 10, 1922. Serial No. 573,822. 11 Claims. (Cl. 1—15.)



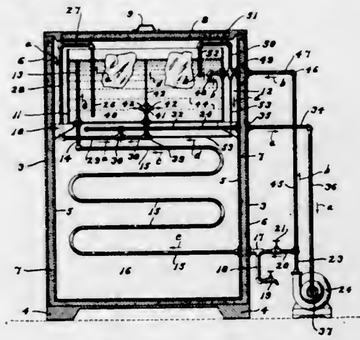
7. In a nailing machine the combination with the main frame of the machine, a plurality of sets of nail holding chucks, rigidly supported by the main frame, the sets spaced transversely of the machine, a work supporting table rigidly carried by the main frame in spaced relation below the chucks, nail driving means associated with the chucks, and a reciprocatory head mounted upon vertical guides on the main frame and operatively engaging the nail driving means, of a plurality of stepped blocks slidably supported upon the upper face of the table, each block constituting a work support below one set of chucks, and means for moving the blocks transversely upon the table whereby the various steps thereof may be positioned below the sets of chucks.

1,478,119. ELECTRIC-LIGHT CLUSTER SOCKET. MAX HERSKOVITZ, Chicago, Ill., assignor to Peerless Light Company, Chicago, Ill., a Corporation of Maine. Filed Dec. 14, 1917. Serial No. 207,083. 11 Claims. (Cl. 240—78.)



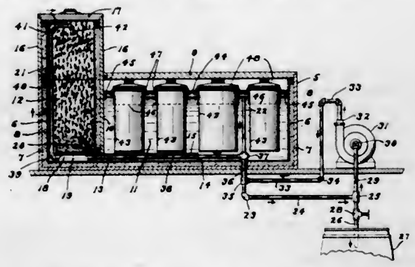
1. A cluster-lamp socket formed of a hollow body containing sockets for lamps and hollow projections extending in opposite directions from said body, said body being formed of sections each of which forms parts of both of said projections, and means engaging said projections and holding said sections together.

1,478,120. MEANS FOR BRINE CIRCULATION. FRANK M. HILL, Camden, N. J. Filed Aug. 13, 1921. Serial No. 491,983. 2 Claims. (Cl. 62—101.)



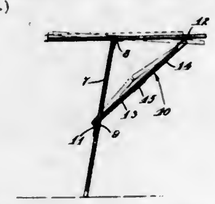
1. In a device of the class described, a refrigerating chamber, a tank therein for containing a brine solution, a pump, a coil within the chamber, connections for passing brine from the tank through the coil, secondly through the pump and thence to the tank, a second coil within the chamber, and connections for passing brine from the pump directly to and through the second coil and thence into the tank.

1,478,121. ICE BOX FOR USE AT SODA FOUNTAINS. FRANK M. HILL, Camden, N. J. Filed Dec. 3, 1921. Serial No. 519,713. 2 Claims. (Cl. 62—101.)



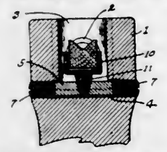
1. A refrigerator, comprising a brine tank, a chamber adjacent thereto for ice and salt, a duct for establishing communication between the lower portions of the tank and chamber, said duct opening into the brine tank at its lower central portion, a pipe extending through the duct and discharging into the upper portion of the ice chamber, and means for forcibly circulating fluid through said pipe, downwardly through the upper portion of the ice chamber, the fluid passing thence through the duct, into the lower portion of the brine tank.

1,478,122. BRACKET. HENRY HORSTMAN, Kearney, Nebr. Filed Oct. 4, 1922. Serial No. 592,330. 1 Claim. (Cl. 45—51.)



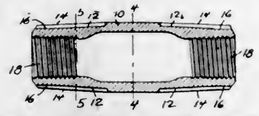
An article of the class described comprising a table top rigid throughout its area and having a supporting leg pivotally connected to its lower face midway its ends, said leg having an opening therein, a brace member hinged at one end to the lower face of said top near one edge and at its other end to said leg inside the opening, said brace being composed of hingedly connected upwardly breakable sections, said sections being rigidly held when in open position.

1,478,123. PIVOT BEARING. SAMUEL N. HURT, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Dec. 10, 1919. Serial No. 343,916. 9 Claims. (Cl. 74—104.)



1. In a device of the class described, in combination, a frame, a connecting member rockable with respect to said frame about an axis, a second connecting member rockable about an axis perpendicular to the first said axis, and a line bearing member carried by said second connecting member, the bearing line lying perpendicular to both said axes.

1,478,124. COUPLING. EDWARD E. JOHNSON, St. Paul, Minn. Filed Feb. 13, 1920. Serial No. 358,447. 3 Claims. (Cl. 287—60.)

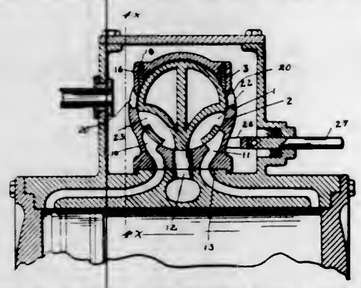


1. A coupling comprising a hollow member having a middle portion, and contracted interiorly-threaded end portions, the exterior surfaces of all of said portions being polygonal in shape and the faces on the exterior of said end portions converging as they extend from said middle portion, the outer ends of said faces being substantially parallel with the corresponding faces of said middle portion.

1,478,125. BALL VALVE. GEORGE C. KEAR, Rochester, N. Y. Filed Apr. 13, 1921. Serial No. 461,043. 2 Claims. (Cl. 121—186.)

1. In a ball valve, the combination of a ball casing, comprising an upper and a lower section, said lower section having a seat formed therein, the upper section of said

casing forming a cap, a ball mounted to rock in said seat formed in the lower section thereof, an annular ring mounted in said upper section and freely resting on the perimeter of said ball, said cap having holes in the top thereof to admit steam into it to force said annular ring



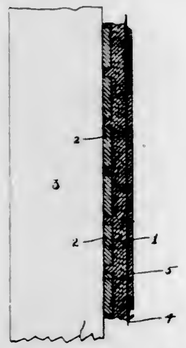
against the perimeter of said ball and form a packing ring between the upper half of the casing and said ball, said casing having intake ports on either side thereof, a valve seat at the bottom of said casing adapted to rest on the valve seat of a slide valve, and means to fasten the valve casing to the seat of the slide valve.

1,478,126. MEANS FOR REMOVING ARTICLES FROM MOLDS. JAMES ALFRED LEWIS and ALVIE C. CRIMMEL, Hartford City, Ind. Filed Mar. 9, 1922. Serial No. 542,384. 6 Claims. (Cl. 49—14.)



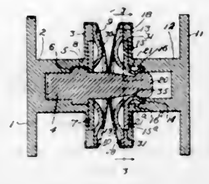
1. A means for removing articles from the molds in which they are formed, said means inculding a suction head having air inlets in one face adapted to be placed in close proximity to the article to be removed from the mold, and means for creating an air current between the adjoining faces of the head and molded article to cool said article, and for producing a suction through said apertures and head to cause the molded article to adhere to the head.

1,478,127. WALL CONSTRUCTION. JAMES F. C. LYNCH, Sioux City, Iowa. Filed Oct. 23, 1919. Serial No. 332,809. 1 Claim. (Cl. 72—17.)



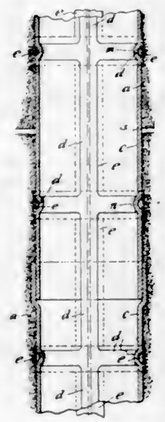
A construction comprising a layer of plaster, a layer of cement, and tarred paper interposed between the layers.

1,478,128. SEPARABLE CUFF-LINK BUTTON OR THE LIKE. CHARLES D. LYONS, Mansfield, Mass. Filed Apr. 19, 1923. Serial No. 633,136. 9 Claims. (Cl. 24—102.)



1. A separable cuff link button comprising a stud member and a socket member, the stud member being provided with a stud having a head to engage the socket member, the socket member having a post with a socket and a recessed flange around the entrance to the socket, two separate spring jaw members each having a flange seated in the recess in the flange of the post and having a jaw portion which extends into the socket in the post, the two jaws being yieldable to form a passage between them for the head of the stud, and a clamp for the flanges of the jaw.

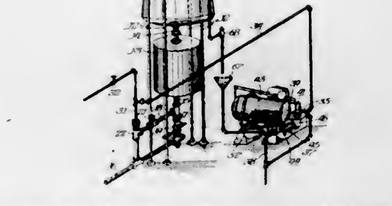
1,478,129. PIPING FOR PRESSURE FLUIDS. PIETRO MARINONI, Milan, Italy. Filed May 5, 1921. Serial No. 467,190. 1 Claim. (Cl. 72—54.)



A piping arrangement of the character described including in combination, an outer piece of piping of cementitious material, an inner piece of piping constructed of light sheet metal and provided with eternal longitudinal and annular grooves intersecting each other, and external metallic protecting strips for covering the grooves.

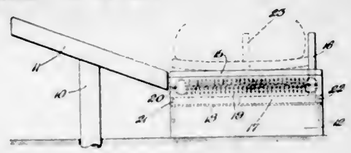
1,478,130. MARKING-TICKET STRIP. ALONZO KIMBALL MARSH, New York, N. Y., assignor to A. Kimball Company, New York, N. Y., a Corporation of New York. Filed Aug. 21, 1922. Serial No. 583,201. 4 Claims. (Cl. 40—2.)

1. A strip of flexible marking ticket material presenting a plurality of pacallel scores extending longitudinally thereof, the said strip being completely severed, except at the scored zones, on equidistant parallel transverse lines to form a plurality of similar marking tickets



each readily separable from the strip by rupturing the scored connections, each readily foldable on the scored zones, and each presenting clean cut finished edges.

1,478,131. FOOT-THROTTLE-CONTROLLING MECHANISM FOR AUTOMOBILES. PHILIP A. MEANS, Cambridge, Mass. Filed Feb. 8, 1923. Serial No. 617,783. 5 Claims. (Cl. 74—81.)

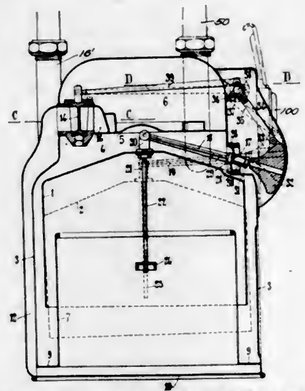


1. Throttle controlling mechanism for automobiles having, in combination, a throttle actuating member provided with an inclined head, a foot rest on one side of the throttle controlling member having a foot supporting surface located at the level of the lower end of the head of the throttle push rod, a foot pusher movably mounted on the foot rest, and means for actuating it to push the foot of the operator resting on the foot rest in the direction to engage and press down the throttle push rod.

1,478,132. AUTOMATIC SLUDGE-DISCHARGE APPARATUS FOR BOILER-WASHOUT SYSTEMS. FRANK W. MILLER, Chicago, Ill. Filed May 27, 1922. Serial No. 564,167. 14 Claims. (Cl. 210—54.)

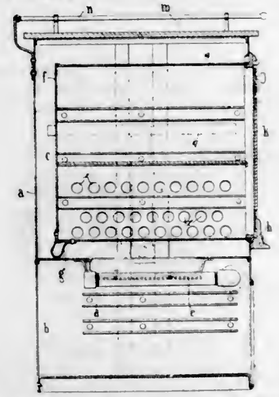
1. In an automatic sludge delivery apparatus, the combination of a sludge collector connected with the blow-off line from a boiler, a sludge discharge valve for said collector, means actuated hydraulically by the blow water for causing said valve to open, and an adjustable regulating device whereby the length of time after the beginning of inflow of blow-off water to said collector at which said valve will be opened may be regulated.

1,478,133. GAS METER WITH SWINGING BELL-SHAPED MEMBER. LAURENT MILLET, Paris, France, assignor to Compagnie pour la Fabrication des Compteurs et Materiel d'Usines a Gaz, Paris, France. Filed Oct. 23, 1920. Serial No. 418,991. 2 Claims. (Cl. 73—1.)



1. A gas meter, a casing, means dividing said casing into three fluid tight compartments, certain of said compartments having sealing fluid therein, gas distributing and gas volume registering mechanisms arranged in one compartment, oscillating bells immersed in the sealing fluid in the other compartments and sub-dividing the latter into two gas receiving chambers, means to permit the inlet of gas, means to permit the outlet of gas, oscillating levers actuated by said bells and extended through the portion of the dividing means separating the last mentioned compartments from the first mentioned compartments, a fluid tight flexible diaphragm enclosing the levers at the points of extension through the dividing means, and means actuated by the levers to control the distributing mechanism whereby to connect one of the chambers of each of the last mentioned compartments with the gas inlet means simultaneously with the connection of the other chamber of said compartment with the gas outlet means and to alternately connect the first mentioned chamber with the gas outlet means, and the second mentioned chamber with the gas inlet means.

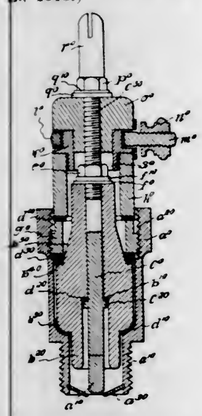
1,478,134. GAS COOKER. CHARLES HENRY MITCHELL, London, England, assignor, by mesne assignments, to said Mitchell and Thomas Clement Bench, Kingston, Surrey, England. Filed Jan. 4, 1922. Serial No. 527,047. 6 Claims. (Cl. 126—39.)



1. A gas cooker comprising in combination an oven, a hot-plate above said oven, a gas burner and means per-

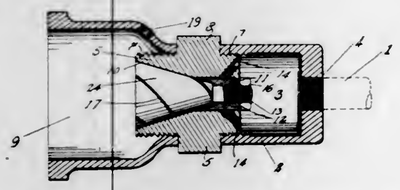
mitting the movement of said burner without removal from the cooker to heat either the oven or the hot-plate or both.

1,478,135. SPARK PLUG. LOUIS MOREL, Boulogne-sur-Seine, France, assignor to Antoine Lucien Schmitz, Boulogne-sur-Seine, France. Filed Aug. 17, 1920. Serial No. 404,235. 3 Claims. (Cl. 123—169.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A dismountable spark plug adapted to operate with or without disruptive discharge, comprising a central continuous electrode extending throughout the whole length of the spark plug, an insulating member surrounding the lower part of the central electrode, a socket base, means for pressing said insulating member in a gas-tight manner upon the bottom of said socket base while providing for a dismountable disposition, means for pressing the lower end of said electrode within its insulation in a gas-tight manner, while providing for dismountable disposition, a metal ring surrounding a portion of the central electrode which is not covered by said insulating member, means for maintaining said metal ring distanced from the part of the central electrode which is not surrounded by the insulation, the space between the ring and the part of the central electrode not covered by insulation constituting the disruptive discharge gap, means for bringing current to the metal ring for operating the spark plug upon disruptive discharge, and means for bringing current to the end of the central electrode for operating the spark plug without disruptive discharge.

1,478,136. FUEL-OIL BURNER. EUGENE JOHN MOYNIHAN, Springfield, Mass. Filed June 30, 1921. Serial No. 481,572. 3 Claims. (Cl. 158—76.)

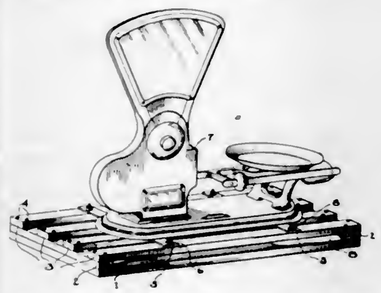


1. A fuel oil burner comprising in combination, a bell shaped mouthpiece having an open restricted bottom, a cone shaped nozzle having a plurality of spiral grooves on its peripheral surface, said grooves terminating in the base surface of the nozzle, a rear chamber member, and a union member for receiving the nozzle and adjustably attaching the rear chamber member and the mouthpiece together, and means for adjusting the nozzle in the union member.

1,478,137. MANUFACTURE OF CELLULOSE ACETATES. WALTER NEBEL, Sioux City, Iowa. Filed June 16, 1920. Serial No. 389,398. 6 Claims. (Cl. 260—10.)

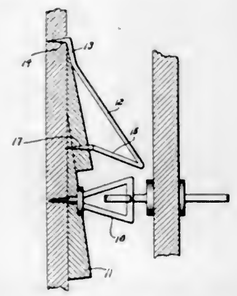
6. The process of preparing hydrated cellulose acetate which consists in disintegrating cellulose in a dilute solution of hydrochloric acid in acetic acid, removing a portion of said solution, heating the remaining mixture with acetic anhydride in the presence of zinc chloride to effect the production of cellulose acetate, and adding to the resulting mass hydrochloric acid and heating the mixture until hydration of the cellulose acetate is effected.

1,478,138. MEANS FOR FASTENING ARTICLES IN PACKING CASES. ALBERT NEILS, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Dec. 10, 1919. Serial No. 343,811. 12 Claims. (Cl. 217—54.)



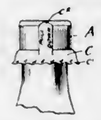
1. The combination with a packing case base, said base being of relatively rigid construction, of spaced slats, and means secured to said base independently of the walls of said case for supporting the ends only of said slats upon said base.

1,478,139. ANTI-SPARROW-ROOSTING DEVICE. MAURICE J. NOONAN, East Providence, R. I. Filed Feb. 15, 1923. Serial No. 619,236. 2 Claims. (Cl. 70—44.)



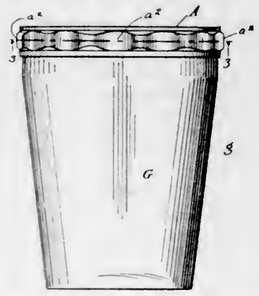
1. An antisparrow roosting device comprising a guard having a front bar set on an incline, its upper extremity being turned inwardly to form an attaching spur, a lower inwardly-extending bar having its inner portion offset laterally to lie against the support and its extremity being turned inwardly to provide an attaching spur.

1,478,140. BOTTLE-SEALING DEVICE. MARK P. ORR, Norwood, Ohio, assignor to The Security Metal Products Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 4, 1922. Serial No. 558,361. 5 Claims. (Cl. 215—46.)



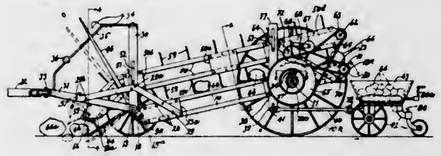
1. A bottle closure having a thimble element adapted to seat down loosely over the bottle top, and separate unbroken removable crown cap sealing means having a gripping skirt and means engageable with the wall of said thimble for holding said thimble element rigidly in sealing position.

1,478,141. METAL TOP FOR SEALING GLASS CONTAINERS. MARK P. ORR, Norwood, Ohio, assignor to The Security Metal Products Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 4, 1922. Serial No. 558,362. 6 Claims. (Cl. 215—38.)



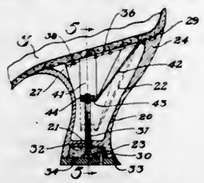
1. A metal tumbler top having in combination a top portion, a unitary depending rim, large vertical corrugations some projecting inwardly and others outwardly on said rim, the lower edges of said corrugations beveled, and the diameter of the rim of such size as to adapt it to cause the inturned corrugations to grip the outer wall of the tumbler top so as to hold the top to the tumbler when pressed into sealing position, said corrugations being so shaped and proportioned that upon flattening the outwardly projecting corrugations the gripping action of the rim is so relaxed as to permit ready removal of the top.

1,478,142. STONE PICKER. THEODORE ORTMANN, Pierz, Minn. Filed Mar. 10, 1923. Serial No. 624,132. 8 Claims. (Cl. 55—17.)



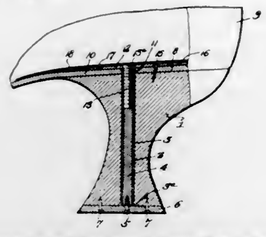
1. In a stone picking device of the kind described an elongated rectangular frame mounted on a pair of steering wheels and a pair of bull wheels, a ground engaging fork pivotally mounted on the axle of the steering wheels and sloping forward therefrom, two vertically spaced endless conveyors mounted in said frame, the lower conveyor inclined upwardly in the frame from a point below and rearward of the fork to a point rearward of the bull wheel axle, the upper conveyor extending upwardly from a point above the front end of the fork thence rearwardly in substantially parallel relation to the lower conveyor and terminating vertically above the rear end of the lower conveyor, means operatively connected with the bull wheels for moving the adjacent runs of the conveyors rearwardly with the same velocity, means on the upper conveyor for engaging rocks to move them upwardly on the fork and thence co-operating with means on the lower conveyor to convey the rocks to the rear of the machine and means for storing said rocks rearward of the conveyors.

1,478,143. METALLIC HEEL FOR SHOES. BARNEY PREBLUDA, Fall River, Mass., assignor of one-half to Isidore Chernock, Boston, Mass. Filed Oct. 6, 1920. Serial No. 415,025. 6 Claims. (Cl. 36—40.)



1. A metallic heel member comprising a hollow shaped outer member having an interrupted seating flange in its top wall and a tread supporting section in the bottom thereof, a plate member provided with means for securement of a shoe thereto, said plate member interengagingly fitting at its peripheral edge within the seating flange and extending downwardly into the hollow shaped outer member, and means for securely coupling said plate to the tread supporting section of said outer member.

1,478,144. MEANS FOR ATTACHING HEELS TO SHOE BOTTOMS. FRANK RICCIOLI, Washington, D. C. Filed Oct. 26, 1922. Serial No. 597,002. 1 Claim. (Cl. 36—34.)

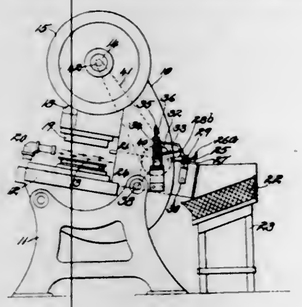


The combination with a shoe bottom having an aperture therein, of a heel having a tubular extension extending therethrough and projecting above its upper surface through the hole in said shoe bottom, a plate arranged on the upper surface of said shoe bottom, a screw passing through said plate and engaging the inner surface of the tube, fastening means passing through said plate, shoe bottom and into said heel and arranged at spaced points from said screw, a filling piece surrounding said plate, and a lining arranged over said plate and filling piece for concealing the plate, screw, fastening means and filling piece and providing a smooth upper surface.

1,478,145. QUANTIFYING MECHANISM. HARRY E. RUCKERT and GEORGE P. MALLORY, Philadelphia, Pa., assignors to Sanitary Products Corporation of America, Philadelphia, Pa., a Corporation of Virginia. Filed Apr. 11, 1922. Serial No. 551,494. 15 Claims. (Cl. 93—93.)

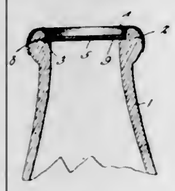
1. The combination with mechanism operating in repeated cycles to produce a succession of articles whose number is proportional to the number of cycles, of means

for delivering said articles as they are formed, means for changing the point of delivery of said articles, means tending constantly to operate said changing means, means for locking said changing means against opera-



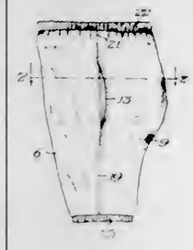
tion, and means operatively connected with said mechanism and rendered operative thereby after a predetermined number of cycles of operation thereof for releasing said locking means and permitting said changing means to act.

1,478,146. SANITARY BOTTLE CLOSURE. HARRY R. STEVENS, Baltimore, Md. Filed Dec. 18, 1922. Serial No. 607,530. 1 Claim. (Cl. 215—51.)



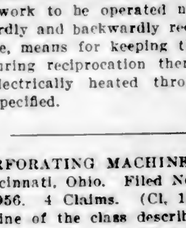
The combination with a cap, of a bottle mouth protecting member extending around the cap and having its faces impervious to moisture, that portion between said faces being expansible under the action of moisture, said member having its expansible portion exposed at one edge to the contents of the bottle and expansible by moisture to bind upon and hold the cap.

1,478,147. UNDERGARMENT. CARL A. SUS STRONG, Chicago, Ill. Filed Nov. 23, 1922. Serial No. 602,695. 4 Claims. (Cl. 2—122.)



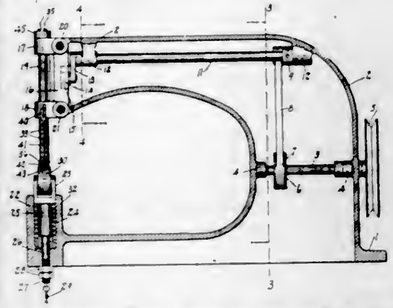
1. An undergarment comprising front and back pieces united from the bottom part way up the leg and also at the top by a side seam, the side edge of said back piece between said portions of the side seam being concave, and a gusset tapered toward both ends interposed between said front and back pieces and sewed along one edge to said concave edge of the back piece, and along its other edge to the opposed edge of the front piece, the ends of said gusset being merged in said side seam.

1,478,148. HEADLIGHT DIMMER. RAFAEL TREJO M and DEMETRIO PONCE, San Antonio, Tex. Filed June 24, 1922. Serial No. 570,746. 1 Claim. (Cl. 240—48.4.)



A dimmer of the character described comprising a pair of resilient arms rigidly secured intermediate of their ends, said ends being offset at a slight inclination and being adapted to be inserted between the lens and lens securing rim of a vehicle lamp, a shaft carried by the resilient members at their point of intersection and extending outwardly therefrom, a sleeve surrounding the shaft and being spaced from its free end, a hub rotatably mounted between the end of the sleeve and shaft respectively, a plurality of radiating blades secured to the hub and being arranged at different inclinations to provide a wind wheel for the purpose specified.

1,478,149. SEAM-PRESSING MACHINE. LOUIS J. VAN GUELPEN, Cincinnati, Ohio. Filed Nov. 11, 1919. Serial No. 337,248. 6 Claims. (Cl. 69—7.)



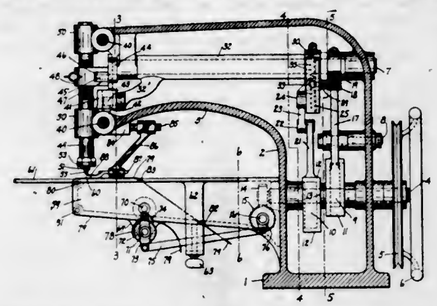
1. In a machine of the character described, work supporting means for supporting the work, a heated reciprocating tool for exerting pressure and flattening out said work, said tool operating in line with the seam of said work; and means on said tool for keeping the work in alignment as said tool is reciprocated.

6. In a machine of the character described, means for supporting work to be operated upon, in combination with forwardly and backwardly reciprocating means for ironing same, means for keeping the ironing means in alignment during reciprocation thereof, said ironing means being electrically heated through sliding contact means as specified.

1,478,150. PERFORATING MACHINE. LOUIS J. VAN GUELPEN, Cincinnati, Ohio. Filed Nov. 18, 1919. Serial No. 338,956. 4 Claims. (Cl. 164—88.)

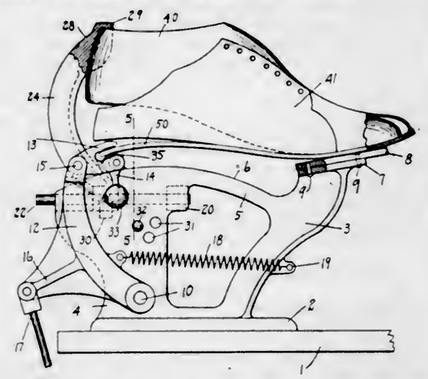
1. In a machine of the class described, a perforating means and mechanism for operating the same, means

for supporting the material to be perforated and a cushion thereunder, both traveling under the perforating



means and means for forcing the material to travel in one direction and the cushion at approximately right angles to the material.

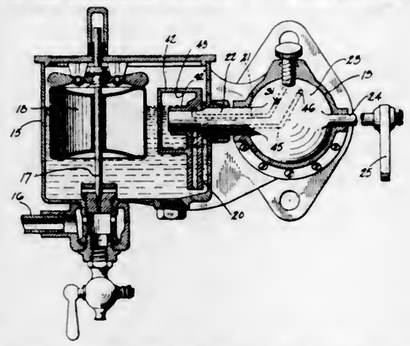
1,478,151. SHOE-RELASTING MACHINE. LOUIS J. VAN GUELPEN, Cincinnati, Ohio. Filed July 22, 1921. Serial No. 486,843. 8 Claims. (Cl. 12—15.)



1. A relasting machine including means for affording stationary support for a last, and means movable with respect to said support means and engageable with the sole of the shoe mounted on a last on said support means for drawing the shoe on the forward portion of the last, and means for causing the means for drawing the shoe on the last, to move in a curved line substantially corresponding in contour to the portion of the bottom surface of the last which extends from the heel to the ball of the arch.

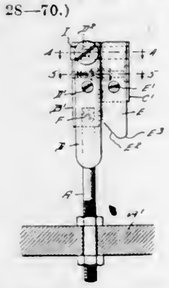
1,478,152. CARBURETOR. CHARLES J. VOEGTLE, West Hoboken, N. J. Filed Oct. 23, 1919. Serial No. 332,579. 1 Claim. (Cl. 261—41.)

In a carburetor, the combination of a constant level fuel chamber, a tube, an oscillating throttle valve in said tube having a stem extending into said constant level fuel chamber, an accelerating well eccentrically mounted upon the stem of the valve which extends into the constant level fuel chamber, said accelerating well having an inlet port adapted to maintain the liquid level therein the same as the liquid level in the constant level fuel chamber, said stem of the throttle valve having a passageway therein establishing communication between the accelerating well and said tube, said accelerating well being adapted to rotate with said valve so that when said valve is opened the inlet port of the accelerating well will be above the level of the liquid fuel in the constant level fuel chamber and the level of liquid fuel within the accelerating well will be considerably higher



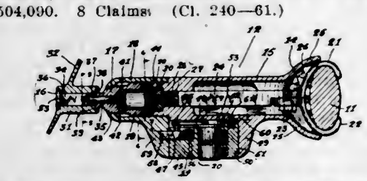
than the level of the fuel in the constant level fuel chamber, whereby the liquid in said accelerating well will feed its limited supply through the passageway of said valve stem to said tube.

1,478,153. CLEANER AND GAUGE FOR WINDING MACHINES. MAURICE N. WEINSTEIN, East Cleveland, Ohio. Filed Apr. 14, 1921. Serial No. 461,403. 3 Claims. (Cl. 28—70.)



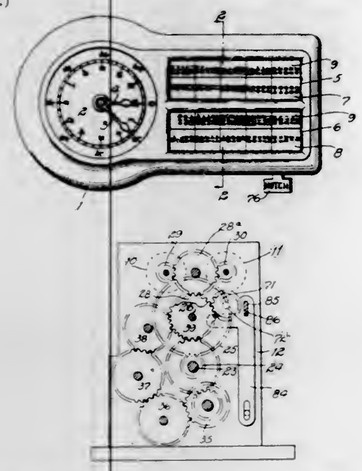
1. In a device of the kind described the combination with a fixed member having a recess, of a movable member, a screw passing through the movable member and engaging the fixed member and a spring surrounding said screw and bearing upon the contiguous faces of both members, a guide rigidly connected to the movable member and working in a recess produced in the fixed member, blades attached to the fixed and movable members, the blade of the fixed member being slotted and a set screw passing through the slot of said blade and engaging the guide in the fixed member.

1,478,154. SPOTLIGHT BRACKET. NELSON J. WEIR, Seattle, Wash. Filed Sept. 29, 1921. Serial No. 504,090. 8 Claims. (Cl. 240—61.)



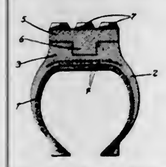
1. A spotlight bracket comprising a casing, bracket securing means enclosed by said casing, spotlight securing means disposed within said casing, and locking means to render inaccessible said bracket and spotlight securing means.

1,478,155. FABRIC MEASURING AND COST COMPUTING MACHINE. JOHN L. WHEELER, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation of Delaware. Filed Aug. 31, 1922. Serial No. 585,367. 14 Claims. (Cl. 33—133.)



1. In a measuring machine, the combination of indicating mechanism, a driving member mounted so as to be rotated in making the measurement, a driving gear train for driving the indicating mechanism from the driving member at a predetermined movement ratio, means for driving the indicating mechanism from the driving member at an increased movement ratio when the measurement starts, and means for inhibiting the action of the last named means when the lost motion due to the backlash of the said driving gear train has been compensated for, said driving gear train operating thereafter to effect the driving of the indicating mechanism through the said gear train.

1,478,156. SOLID TREAD PNEUMATIC TIRE. BRYAN J. WHITCOMB, St. Louis, Mo. Filed July 2, 1921. Serial No. 482,062. 2 Claims. (Cl. 152—14.)



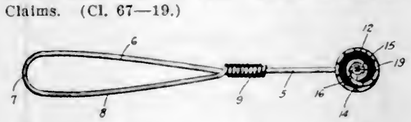
2. In a tire of the character described, the combination with a pneumatic tire body having a thick circumferential portion, the outer surface of which is flat in cross section and the side walls of which are at right angles to the outer surface at their intersection therewith, the circumferential portion being provided with a groove having side walls at right angles to the outer surface of the tire body and having notches therein and said groove being of less width than the combined width of the remaining portions of the circumferential portion of the body; of thick, solid, homogeneous rubber expansible and contractible elastic tread having a width equal to the width of said flat surface and having side walls in continuation of the side walls of the tire body, and having an inside diameter smaller than the outside diameter of the flat surface of the tire body; a homogeneous rubber flange integral with the inside of the tread engaging in said groove, and said tread and flange being expanded on the tire body and exerting inward pressure against the tire body by the elasticity of the homogeneous rubber tread and flange; and projections on the side edges of said flange in relative staggered arrangement engaging in said notches in the side walls of said groove and holding the tread from turning relative to the tire body.

1,478,157. FOUNTAIN PEN. EDWARD D. WINTERSTEEN, Schenectady, N. Y. Filed May 18, 1923. Serial No. 639,949. 3 Claims. (Cl. 120—42.)



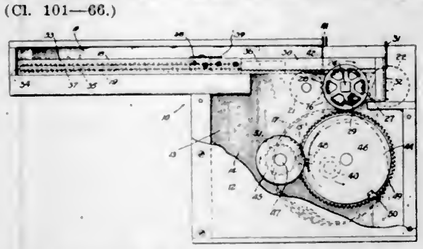
3. A fountain pen comprising a barrel having an external threaded portion, a cap having an internal threaded portion which may be screwed into engagement with the external threaded portion of said barrel, ratchet teeth upon the interior surface of said cap and a pawl of resilient material mounted upon said barrel so as to engage with said ratchet teeth, said teeth being shaped to permit said cap to be screwed upon said barrel but resisting unscrewing and a mounting for said pawl permitting release thereof by pressure.

1,478,158. GAS LIGHTER. OSCAR ZUMFT, Kinderhook, N. Y. Filed Mar. 19, 1923. Serial No. 626,245. 2 Claims. (Cl. 67—19.)



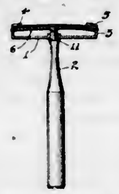
1. A gas lighter comprising a hollow foraminous metallic cone, a guide ring at the larger end adapted to contact with the tip of a gas burner, and a lighting means within said cone.

1,478,159. TICKET PRINTING AND DISTRIBUTING MACHINE. JAMES M. ZWEIMAN, Brooklyn, N. Y. Filed Apr. 11, 1922. Serial No. 551,711. 6 Claims. (Cl. 101—66.)



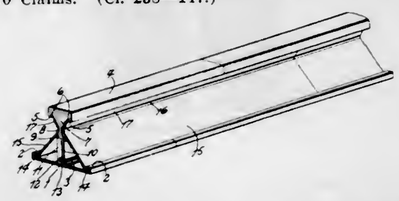
1. In a machine of the character described, a ticket printing member, a cutting device associated therewith, and actuating means for first feeding ticket material through the printing member and then cutting off the ticket from the material, said actuating means comprising a rack, mutilated gear, and means carried by the rack for independently advancing the gear to bring it into engagement with said rack.

1,478,160. RAZOR. RALPH R. ADAMS, Yonkers, N. Y. Filed Nov. 11, 1916, Serial No. 130,722. Renewed May 14, 1923. 4 Claims. (Cl. 30—12.)



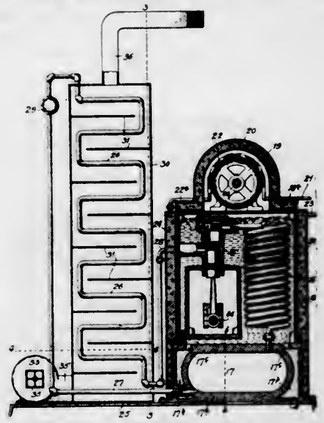
1. In a safety razor the combination of a flexible blade, a flexible guard therefor and means for holding said blade and guard in shaving position with the edge of the blade and the adjacent portion of the guard appreciably curved on an axis transverse to the length of the blade and for varying the degree of curvature of said blade and guard.

1,478,161. RAILWAY RAIL. CAMPBELL ALLISON, St. Louis, Mo. Filed Feb. 15, 1923. Serial No. 619,227. 10 Claims. (Cl. 238—147.)



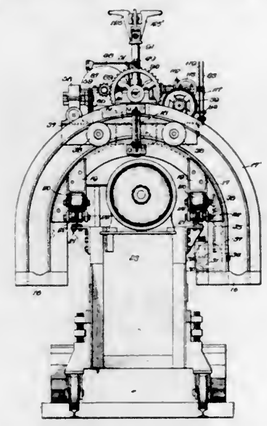
1. A continuous rail, comprising a base plate having side retaining flanges, a body portion, strut members connected with the base and with the body portion, and a vertical connecting plate between the body portion and the base section holding them from vertical separation.

1,478,162. REFRIGERATING APPARATUS. AUGUST P. ANDERSON, Chicago, Ill., assignor to Anderson-Rees Refrigerating Machine Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 5, 1917. Serial No. 146,629. 3 Claims. (Cl. 62—135.)



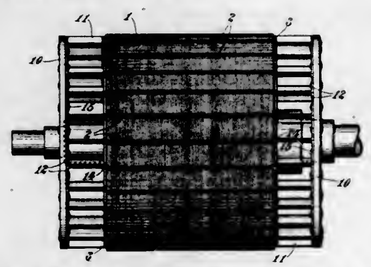
1. In a refrigerating apparatus, the combination of a bed, a compressor, a condenser, a refrigerant receiver, means enclosing the compressor, condenser and receiver and adapted for the circulation of water therethrough and mounted on said bed, a refrigerant line connected to the receiver and to the compresor, including a coil, a casing around the coil also mounted on said bed and means supported by the bed for forcing air through the casing containing the coil.

1,478,163. ERECTOR FOR TUNNEL STRUCTURES. LOUIS W. ANDERSON, Grand Rapids, Mich., assignor to The Tunnel & Sewer Machine Engineering Company, Buffalo, N. Y., a Corporation of New York. Filed June 20, 1919. Serial No. 305,632. 23 Claims. (Cl. 61—85.)



5. A tunnel structure erector comprising a movable carrier; means for moving said carried in a curved path disposed in a plane extending substantially transversely of the bore of the tunnel; and work holding means on said carrier.

1,478,164. ROTOR FOR INDUCTION MOTORS. EDWIN C. BALLMAN, St. Louis, Mo., assignor to Valley Electric Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 19, 1920. Serial No. 352,590. 6 Claims. (Cl. 172—120.)

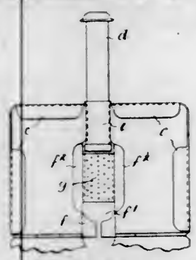


1. In a rotor for induction motors having a slotted core, a current-carrying bar which is insrtible into a rotor slot and constructed to project at its ends beyond the core in order to provide ventilating spaces, said bar having a stop spaced from one end thereof adapted by engagement with the core to position the same endwise in the slot.

1,478,165. BOX OR CONTAINER FOR TOBACCO CARTRIDGES. BERNHARD BARON, London, and GEORGE FREDERICK BULL, Birmingham, England. Filed Apr. 12, 1922. Serial No. 551,985. 11 Claims. (Cl. 206—41.)

1. A case for tobacco cartridges and comprising body members, a pipe filler in said case having an opening for the introduction of cartridges, a closure for said

opening formed by one of the body members, means for facilitating the introduction of a cartridge into said



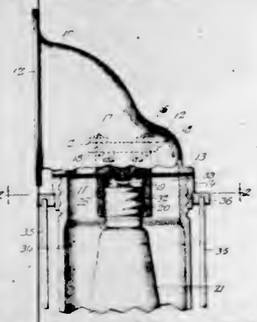
opening and for preventing injury to the wrapper of the cartridge during introduction, and a mouthpiece for the filler.

1,478,166. ELECTRICAL CONNECTOR DEVICE. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 9, 1918. Serial No. 233,462. 8 Claims. (Cl. 173—358.)



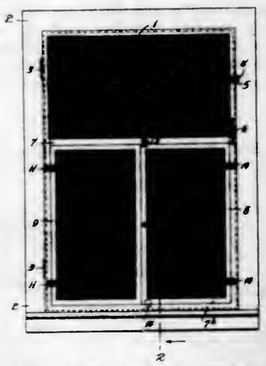
1. An electrical receptacle comprising a cup-shaped metal casing, an insulating base, receptacle contacts carried by said base, said base having an opening therethrough, a spring finger supported by said base, and means for securing said spring finger to said base comprising a tubular rivet member extending through the opening in said base, said casing having an opening with which said spring finger engages to hold the insulating base and the parts supported thereby in said casing.

1,478,167. WATERPROOF ELECTRIC FITTING. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 18, 1918. Serial No. 258,745. 9 Claims. (Cl. 240—11.)



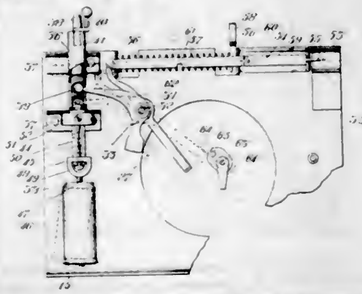
3. A water-proof electric fitting comprising a wiring base provided with wiring terminals, a housing for said wiring base having an opening through which said wiring base is inserted into position, means for mounting said wiring base in fixed position in said housing, the edges of said opening being spaced a substantial distance from said wiring base, a gasket closing the space between the edges of said opening and said wiring base, means for clamping said gasket against the edge of said opening, means for clamping said gasket against said wiring base, and receptacle contacts mounted on said wiring base, said gasket being of yieldable, flexible material and mounted for flexible movement, whereby it may be flexed to accommodate itself to the position of the wiring base in the housing.

1,478,168. WINDOW SCREEN. FRANK E. BOEHNCKE, Woodhaven, N. Y. Filed Oct. 1, 1920. Serial No. 414,111. 1 Claim. (Cl. 156—14.)



The combination with a window frame of a screen comprising a main frame coextensive with the opening in the window frame and pivotally connected to said window frame, said main frame having side members and top and bottom members, a transverse member fastened to the side members intermediate the top and bottom members thereby providing two openings, screening permanently covering one of said openings, and a pair of secondary frames each having side members and top and bottom members, a side member of each of the secondary frames being hinged to a side member of the main frame, the secondary frames, when swung inwardly, closing the lower opening in the main frame, that portion of the transverse frame member which cooperates with the members of the secondary frames and the cooperating portions of the secondary frames being rabbeted, the portions of the bottom and side members of the main frame and of the secondary frames which cooperate being smooth.

1,478,169. ALARM MECHANISM. JAMES M. BUTCHER, Chicago, Ill. Filed Sept. 30, 1922. Serial No. 591,452. 9 Claims. (Cl. 116—99.)



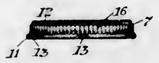
7. In alarm mechanism of the character described, an alarm element, a vertically movable plunger, a housing in which the plunger reciprocates, means whereby the plunger may be held against vertical movement, the lower end of said housing being provided with an extension or bracket disposed beneath the path of the plunger, gravity-controlled means pivotally mounted on said bracket to swing laterally, said plunger and means being provided with contacting points, a spring-controlled member normally holding said alarm element against alarm-sounding operation, a spring-controlled lever operatively connected with said plunger, adapted to force said last mentioned member out of holding relation with the alarm element when said plunger moves downwardly upon hovement of the gravity-controlled means out of alignment with said plunger.

1,478,170. PENCIL HOLDER. BERNARD J. BLASKIE and HERMAN E. BLEIER, Mishawaka, Ind. Filed June 15, 1922. Serial No. 568,458. 1 Claim. (Cl. 120—103.)



A pencil holder comprising a center strip, arms extending from opposite sides of said strip and bent to extend upwardly therefrom and towards each other for clamping engagement with a finger, arms extending from opposite sides of said strip and bent to extend downwardly therefrom and towards each other for clamping engagement with a pencil, and tongues extending from one side of said strip intermediate the length thereof, said tongues being positioned adjacent each other and extending from the strip in diverging relation for extending partially about a finger adjacent the finger to be engaged by the finger engaging arms.

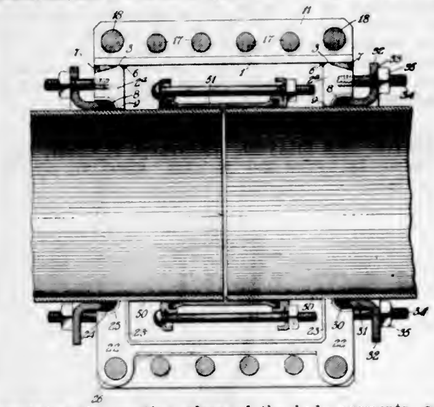
1,478,171. RECEPTACLE CLOSURE AND METHOD OF MAKING THE SAME. IGNATIUS J. CELONA, Brooklyn, N. Y. Filed Dec. 28, 1922. Serial No. 609,367. 7 Claims. (Cl. 215—44.)



1. A closure for receptacles, comprising a disk having a depending flange folded laterally upon itself and said folded portion arranged with a downwardly and upwardly bent bend concentric therewith, corrugations circumferentially disposed around the flange intermediate the bead and juncture of the flange with the disk, and notches in the folded edge of the flange to provide inwardly extending projections circumferentially disposed around the flange within the bead.

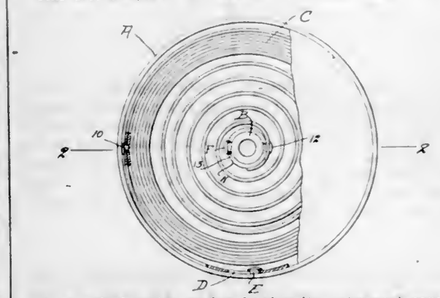
1,478,172. WROUGHT-METAL REPAIR DEVICE FOR PIPE LINES. JAMES CLARK, Bradford, Pa., assignor to S. R. Dresser Manufacturing Company, Bradford, Pa., a Corporation of Pennsylvania. Filed June 19, 1922. Serial No. 569,348. 18 Claims. (Cl. 285—100.)

1. In a wrought metal repair device for pipe lines, a split sleeve compising a plurality of segments each consisting of a wrought metal body segment of a cylinder, provided at each end with segmental end pieces of wrought metal welded thereto, and having segmental recesses, forming parts of end packing recesses, formed therein, side flanges of wrought metal welded to said body segments adjacent to their longitudinal edges, side packings



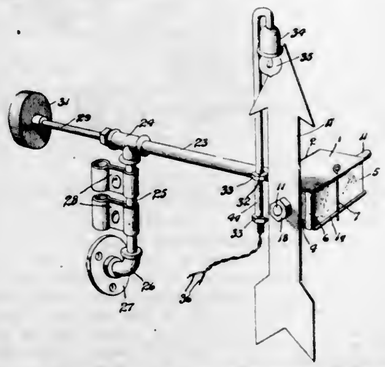
engaging the meeting edges of the body segments, and the end portions of the end segments, and bolts for connecting the side flanges.

1,478,173. MOTOR-SPRING-SECURING MEANS. JOSEPH C. CLARK, San Angelo, Tex. Filed Mar. 21, 1922. Serial No. 545,487. 5 Claims. (Cl. 185—45.)



1. A spiral motor spring having its outermost convolutions secured permanently together.

1,478,174. DIRECTION SIGNAL FOR MOTOR VEHICLES. THOMAS E. CLARK, Grand Rapids, Mich. Filed Oct. 25, 1922. Serial No. 596,721. 7 Claims. (Cl. 116—47.)



1. In a construction of the class described, a horisontal rotatably mounted shaft, a casing through which the shaft passes, supporting means for the casing adapted to be

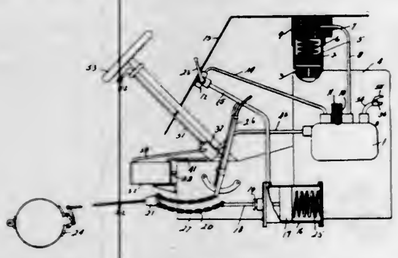
secured to a motor vehicle, an indicating arrow attached to the front end of the shaft in front of the casing, a notched disk on the shaft, and a spring bar mounted in the casing, being secured at one end and having a free end portion bearing against the disk for holding the arrow in any one of a plurality of positions to which it may be turned on rotation of the shaft, substantially as described.

1,478,175. ICE SHAVER. LLEWELLYN F. COTEY, Alexandria, La. Filed May 26, 1923. Serial No. 641,549. 1 Claim. (Cl. 83—62.)



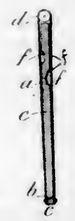
An ice shaver comprising a handle element to be connected with a device such as an ice pick and provided with a relatively large recess to provide an ice shaving retaining receptacle, a closure hinged to the handle and having a longitudinal slot, a scraper blade carried by the closure and passing through the slot, and a resilient catch carried by the closure for engagement with the handle to normally hold the closure against movement.

1,478,176. GEAR SHIFT AND BRAKE CONTROL. WILLIAM R. COULTER, Allentown, Pa. Filed Oct. 6, 1922. Serial No. 592,713. 3 Claims. (Cl. 192—4.)



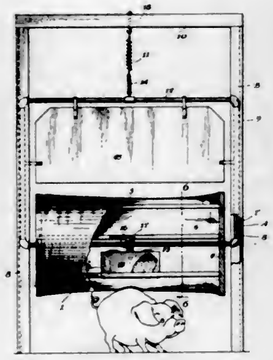
1. In a combined control for the gear shift and brake of an automobile, a piston secured to each of the two gear shift rods of the machine, cylinders in which said pistons are fitted to slide, springs located in the cylinders so as to normally hold said pistons in a neutral position, means for admitting and exhausting air to and from said cylinders in sequence for actuating the pistons against such springs whereby the actuation of the gear shift rods is accomplished, a brake cylinder, a piston fitted to slide therein, a spring for actuating said piston in one direction, a piston rod carried by the last named piston means for connecting said piston rod with a brake rod of the machine, and means for admitting and exhausting air from one end of said brake cylinder.

1,478,177. WASHBOARD. MORLAND MICHOLL DESSAU, London, England. Filed Oct. 29, 1923. Serial No. 671,559. 6 Claims. (Cl. 68—29.)



5. A washing board having two sides serving as supports, a thin flexible sheet of raw rubber attached at one edge to one side and at the opposite edge to the other side of the said washboard, the fastened edges being adjacent leaving a bight in the rubber sheet at one end of the washboard and means arranged in the bight whereby the rubber sheet can be stretched.

1,478,178. AUTOMATIC HOG OILER. NICK M. DOTY, Alcester, S. Dak. Filed Dec. 15, 1922. Serial No. 607,137. 2 Claims. (Cl. 119—157.)

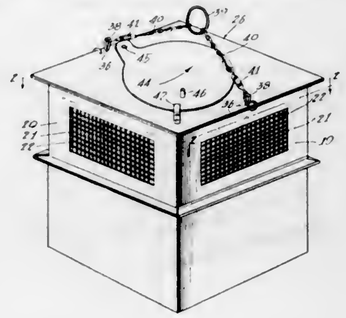


1. A machine of the character specified comprising a rotatable oiling or disinfecting cylinder having a body of cloth or other absorbent material, a supply tank for the oil or disinfectant arranged within and rotatable with said cylinder, said tank provided in its top with discharge openings and valve bars pivoted at diagonally opposite corners of the tank top and provided in their free ends with transverse valve openings adapted to partially or completely register with the discharge openings of the tank.

1,478,179. LIVE-BAIT BOX. FREDERICK F. EVESMANN, Los Angeles, Calif. Filed Mar. 1, 1922. Serial No. 540,092. 5 Claims. (Cl. 43—56.)

4. A device of the class described comprising a base container having side walls and open at its top, extension walls removably secured to the walls of said base container, and means to interlock said extension walls to prevent their displacement, said means comprising channels along the top edges of opposite side walls of said container, and flanges along the bottom edges of their complementary extension walls to engage in said channels,

flanges along the bottom edges of the other extension walls to engage the top edges of the other opposite walls

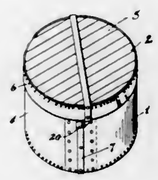


of said container, and complementary flanges and channels along the contiguous vertical edges of said extension walls.

1,478,180. PROCESS FOR EXTRACTING SULPHUR FROM SPENT OXIDE FROM GAS PLANTS. ARTHUR GIVEN, Newark, N. J., assignor to Stevens, Aylsworth Company, New York, N. Y., a Corporation of New York. Filed Nov. 21, 1918. Serial No. 263,474. 13 Claims. (Cl. 23—10.)

1. The herein described process of extracting sulphur from a substance with which it is mixed consisting in placing the substance in a suitable tank, permitting a solvent to flow into said tank to displace the air therein and to submerge said substance and intermittently permitting additional solvent to flow into said tank to displace the solvent previously held therein until the extraction of the sulphur from the substance has been completed, the substance at all times being submerged in solvent during the extraction process.

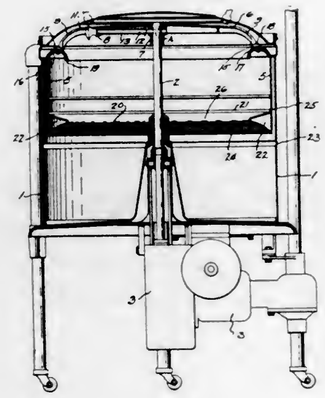
1,478,181. CHEESE BOX. EDWIN W. IWEN, Shawano, Wis. Filed Dec. 5, 1921. Serial No. 519,814. 8 Claims. (Cl. 217—89.)



1. The combination with a wooden container having a bottom and a side wall, of a metallic strip anchored to the bottom and to said wall adjacent the upper margin thereof, a cover for said container, and a cover retaining device engageable with said strip, said device being adapted to permit ready removal and subsequent replacement of said cover.

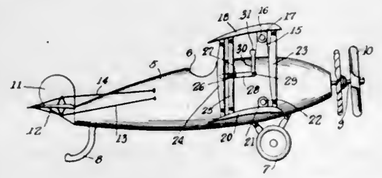
1,478,182. AGITATOR FOR WASHING MACHINES. PETER F. SCHNEIDER, Detroit, Mich. Filed Apr. 23, 1921. Serial No. 463,985. 8 Claims. (Cl. 259—113.)

1. The combination in a washing machine of a tub having a vertically reciprocable shaft therein, an agitator secured to the said shaft consisting of a cylindrical member having an inturned upper flange curved



downwardly and toward the center thereof, and a substantially V shaped annular member secured to the lower edge of the agitator.

1,478,183. AEROPLANE. JOE SCHRAM, Lawton, Okla. Filed Apr. 24, 1923. Serial No. 634,221. 1 Claim. (Cl. 244—14.)

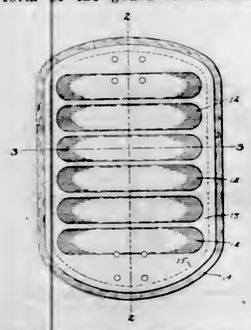


In an aeroplane, the combination with the fuselage, of a bracket extending above said fuselage, an upper plane pivoted to said bracket, a lower sectional plane, pivotal connections between the adjacent ends of the sections and body of the fuselage, connections pivoted to the adjacent surfaces of said planes, bars pivoted between said planes adjacent said fuselage, said bars having extending pins, bell-crank levers pivoted on said fuselage, one of the elements of each bell-crank lever engaging said pins, and handles formed on the other of said bell-crank elements.

1,478,184. THIGH GUARD. WALTER T. STALL, Brockton, Mass., assignor to himself and Charles H. Dean, Copartners, doing business as Stall & Dean Manufacturing Company, Brockton, Mass. Filed May 12, 1922. Serial No. 560,374. 2 Claims. (Cl. 2—197.)

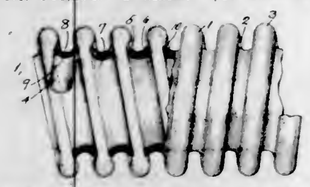
1. A trough-shaped thigh guard of fibrous sheet material, arched between its longitudinal edges to form a salient outer side and a reentrant inner side, and provided with arched parallel corrugations extending in

the direction of the curvature of the arch, whereby the arched form of the guard is rendered permanent,



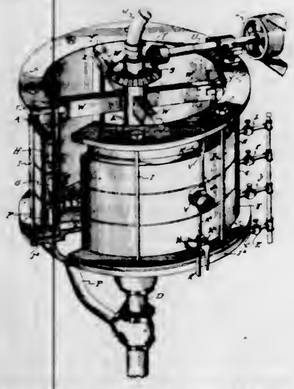
said reentrant inner side being formed by alternating arched ridges and depressions, and conforming approximately to the surface protected by the guard.

1,478,185. FLEXIBLE TUBING. AUGUST SUNDH, Hastings-on-Hudson, N. Y. Filed Dec. 20, 1919. Serial No. 346,294. 1 Claim. (Cl. 137—75.)



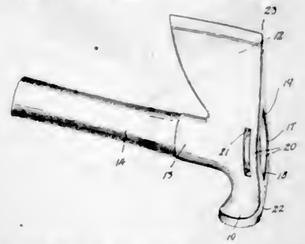
A flexible tubing comprising a corrugated, metal tube, a helically wound, corrugated, metal strip surrounding the same and forming inwardly and outwardly extending loops, adjacent edges of the strip approaching each other at a point above the corrugations of said tube, and a fusible, metallic binder for preventing retraction of the edges of the strip and for binding said edges of the metal tube, said fusible binder tapering outwardly from the base of the said inwardly turned loops to impart a gradually increasing flexibility to the walls thereof.

1,478,186. EVAPORATING APPARATUS. WILLIS A. SWAN, Port Huron, Mich. Filed Nov. 11, 1919. Serial No. 337,142. 6 Claims. (Cl. 127—9.)



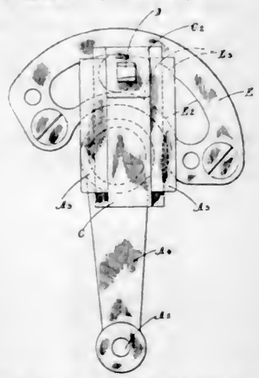
3. An evaporating apparatus comprising a series of separable, superposed, annular hollow sections, a hollow bottom member, the sections and bottom member being secured together to form a cylindrical tank, an independent inlet and outlet for each of the sections, a valve for each inlet, a check valve in each outlet, a rotary aerator and agitator within the tank, and regulatable means for actuating the aerator and agitator and for supplying air under pressure thereto.

1,478,187. CARPENTER'S HATCHET. VIVIAN M. SWANN, Brooklyn, N. Y. Filed Aug. 24, 1922. Serial No. 583,948. 5 Claims. (Cl. 254—26.)



1. In a hatchet, a nail pulling device arranged along the top edge thereof and including a claw formed adjacent to the poll, said claw being constituted by an under cut recess extending downward toward the poll and utilized for starting the nail, the side walls of the claw being continuous spaced ribs merging into the blade of the hatchet and forming an auxiliary claw operative around the point of the blade for completing the pull of the nail.

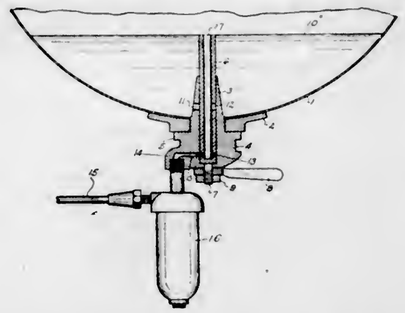
1,478,188. GENERATION OF GEAR TEETH. HERBERT EDGAR TAYLOR, Coventry, England. Original application filed July 24, 1923, Serial No. 653,453. Divided and this application filed Oct. 17, 1923. Serial No. 668,969. 3 Claims. (Cl. 90—9.)



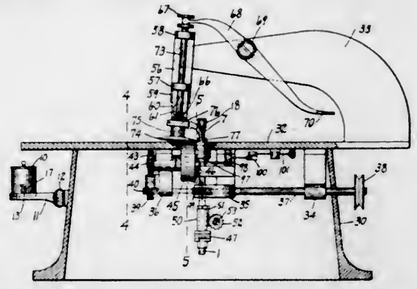
1. The method of generating bevel gear teeth, the sides of which describe curves on the pitch cone, which consists in giving a tool, having the shape of a tooth of the basic crown gear of the system, an oscillatory cutting motion across the face of the blank and simultaneously moving said tool towards and away from its axis of oscillation, while giving the blank the rotary and rolling motions it would have if in mesh with said basic crown gear.

1,478,189. RESERVE-SUPPLY DRAIN AND CUT-OFF VALVE FOR LIQUID-FUEL TANKS. PERCY TODD, Gadsden, Ala. Filed Aug. 7, 1922. Serial No. 580,117. 2 Claims. (Cl. 158—46.5.)

1. In combination with a fuel tank having a bottom opening, a sleeve mounted in said opening and having a port therein disposed within the tank near its bottom, a drain tube mounted to rotate in and projecting upwardly through and above said sleeve to, and having an upper port at a predetermined level in the tank, there being an intermediate port in said tube adapted to register with said sleeve port, and a discharge duct in the sleeve, there being a pair of spaced lower ports in the tube adapted one at a time to register with said duct or to be moved out of register therewith and one lying in a vertical plane with said intermediate tube port.



1,478,190. MACHINE FOR FINISHING THE EDGES OF FLEXIBLE MATERIALS. LOUIS J. VAN GUELPEN, Cincinnati, Ohio. Filed Nov. 5, 1919. Serial No. 335,944. 6 Claims. (Cl. 69—1.)

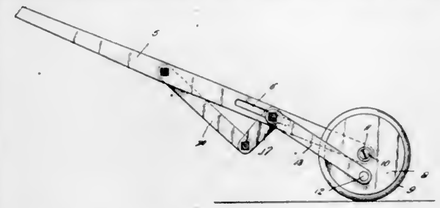


1. In a machine of the character described, a revolving spindle, a work supporting plate, means for feeding and holding the material to said spindle, said spindle capable of being raised and lowered, and guide means for guiding the edge of the material being worked upon.

6. In a machine of the character described, a revolving spindle and a work supporting plate, said spindle carrying means for trimming and means for polishing the edge of flexible material, and means for guiding the material and pressing upon the same as it is being worked upon, said means being capable of continual operation, and manually thrown out of operative position, at will.

1,478,191. TOY. ARTHUR VICTOR, Minneapolis, Minn. Filed Apr. 2, 1923. Serial No. 629,241. 1 Claim. (Cl. 46—38.)

In a toy of the class described, a relatively elongated handle, a wheel journaled upon one end thereof, a rearwardly extending pitman rod loosely pivotally secured to an off center pintle upon the outer face of said wheel, an inwardly extending spacing block carried by the opposite end of said pitman rod and adapted for extension through a longitudinal slot within said handle, a connecting rod pivotally secured at one end to said handle



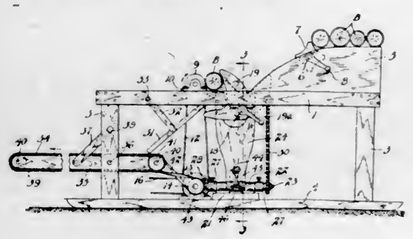
at a point remote from said slot, and a link between the projecting end of said spacing block and the opposite end of said connecting rod.

1,478,192. PHONOGRAPHIC STYLUS. ROBERT C. WADE, Chicago, Ill., assignor to The Tonofone Company, a Corporation of Illinois. Filed Sept. 2, 1919. Serial No. 321,218. 2 Claims. (Cl. 274—38.)



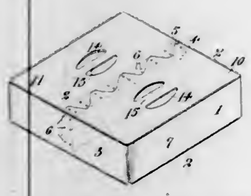
2. A phonograph stylus comprising a highly resilient tip member adapted to engage the sound record groove of a phonograph record, the projecting portion of said tip member being of comparatively great length and of a diameter substantially corresponding to the width of the widest part of the record groove, said resilient member being of soft material capable of being readily shaped to the grooves of a phonograph record, and a shank of relatively soft nonvibrative material in which said tip member is axially fixed.

1,478,193. LOG-BARKING MACHINE. NEVEN EDWARD WARD, Northome, Minn. Filed Aug. 7, 1922. Serial No. 580,132. 8 Claims. (Cl. 144—208.)



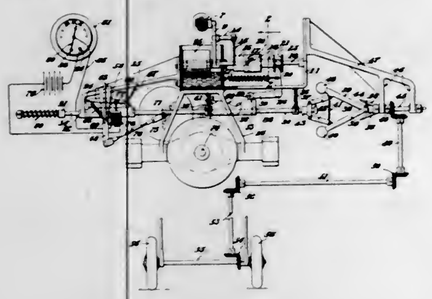
1. A barking machine having in combination, a revoluble driven cylinder having a studded periphery, a runway, a cradle comprising transversely spaced crescent-shaped members for singly receiving the logs adapted to move to swing the logs against said cylinder, means for swinging said cradle to hold the logs against said cylinder, and means disposed below said cradle adapted to be raised in contact with said log and to eject the same endwise from the machine.

1,478,194. SEPARABLE-COMPARTMENT CONTAINER. GEORGE X. WENDLING, San Francisco, Calif. Filed Feb. 17, 1923. Serial No. 619,602. 3 Claims. (Cl. 217—2.)



1. A shipping container comprising connected side and end walls forming a rectangular wall structure, complementary top and bottom closure forming members hinged at corresponding edges of said side walls to enable complementary members to fold toward each other, and the front edges to overlap, a longitudinally separable brace within said rectangular structure dividing the same into separate compartments, one face of each of which is closed by one of said complementary members, and means for securing the overlapping edges of said corresponding top and bottom closure members to each separate portion of the brace and the structure end walls to the ends of the respective separable portion of the brace whereby on the cutting of the overlapping portions of the closure forming members and the end walls, said container is capable of dividing into two closed compartments.

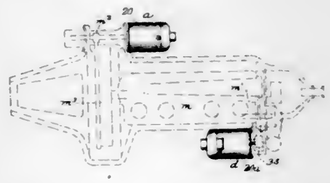
1,478,195. AUTOMATIC STEERING APPARATUS. ERASTUS E. WINKLEY, Lynn, Mass. Filed May 8, 1918. Serial No. 233,260. Renewed May 17, 1922. Serial No. 561,714. 13 Claims. (Cl. 244—29.)



1. An automatic steering apparatus for vehicles having in combination, a guiding-device controlling means, means operative when the vehicle has reached a predetermined speed on one level to move the controlling means to cause the vehicle to leave said level, and means operating on the controlling means when the vehicle has attained another predetermined level to maintain the vehicle on that level.

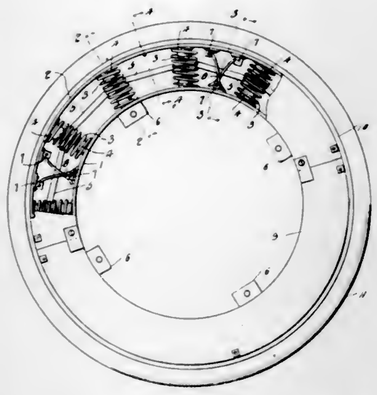
1,478,196. STARTING AND LIGHTING SYSTEM. FRED ALLISON, Detroit, Mich., assignor to Ford Motor Company of Delaware, Detroit, Mich., a Corporation of Delaware. Filed May 29, 1920. Serial No. 385,266. 26 Claims. (Cl. 290—47.)

1. In starting systems of the two-unit type adapted for use in motor vehicle service, wherein the prime mover is of the internal combustion engine type and carried by the chassis of the vehicle and positioned within a zone underlying the vehicle hood, wherein the two units are carried in the prime mover zone, wherein the generator unit is operative to charge a storage battery and the battery is adapted to be electrically connected to the starting motor at will, wherein the generator unit is in permanent operative connection with the crank shaft of the engine and subject to the variable speed conditions of engine service, and wherein the starting motor is adapted to be operatively connected to the crank shaft of the engine at will and is capable of producing a torque



characteristic of sufficient value to start the enigne under the low voltage service of the storage battery, independent generator and starting motor unit structural formations operative to meet such service conditions, said formations having dimensions to permit of installation within the free space limitations of the prime mover zone, said structural formations including a yoke and pole shoe construction having dimensions such as to permit installation in the magnetic circuit formation of either the generator or the starting motor.

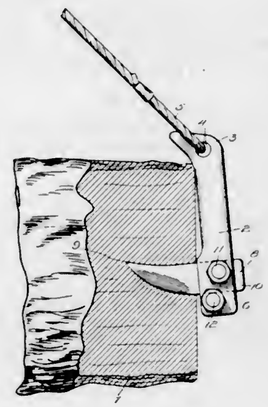
1,478,197. DEMOUNTABLE SPRING RIM FOR VEHICLE WHEELS. JOHN ARRENBRECHT, Salem, Ohio. Filed Mar. 10, 1923. Serial No. 624,177. 2 Claims. (Cl. 152—38.)



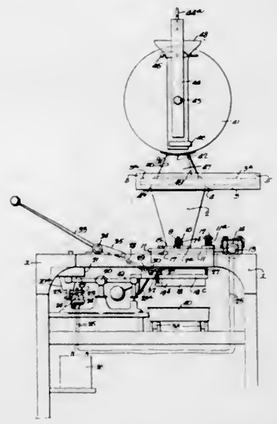
2. A demountable rim comprising spaced inner and outer rings, interposed expansible helical springs, connecting the said rings, links between each two adjacent springs, and said links having their ends pivotally connected to the adjacent springs, to hold the same in their required position.

1,478,198. GRAB PICK. CHARLES H. BAISDEN, Logan, W. Va. Filed Apr. 25, 1922. Serial No. 556,493. 3 Claims. (Cl. 294—78.)

1. A logging tool of the class described comprising, a body member bifurcated at one end and provided at the other end with an aperture for an operating cable, a pick having a reduced head for insertion between the furcations, said head being flat to act as an anvil, and transverse bolts for retaining said pick in operative position.

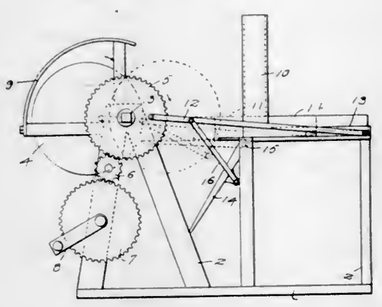


1,478,199. BATTER-WEIGHING MACHINE. PHILIP J. BAUR, Philadelphia, Pa. Filed June 19, 1920. Serial No. 390,114. 7 Claims. (Cl. 249—60.)



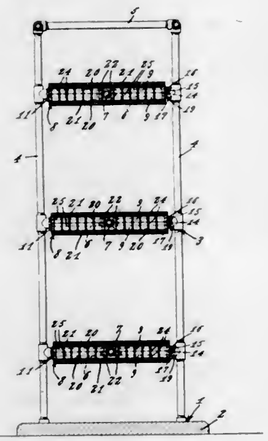
1. In apportioning apparatus, the combination with weighing mechanism, of a hopper established above said mechanism, means for detachably supporting a container above the hopper with the discharge opening of the container below the top of the hopper whereby when the material from the container reaches a predetermined level in the hopper said material closes and seals the discharge opening, a valve in the base of said hopper, means for opening the valve, and means controlled by the weighing mechanism for closing the valve when a predetermined amount of material has passed from the hopper to the weighing mechanism.

1,478,200. FOOD-SLICING MACHINE. GUST A. BERGLUND, Joliet, Ill. Filed Mar. 17, 1923. Serial No. 625,784. 5 Claims. (Cl. 146—98.)



1. A rotary cutting mechanism embodying a shaft, and a plurality of cutters of circular formation eccentrically mounted upon the shaft and spaced apart a determinate distance.

1,478,201. EGG TURNER. COLUMBUS H. BISHOP, El Reno, Okla. Filed Nov. 29, 1921. Serial No. 518,631. 2 Claims. Cl. 119—44.)

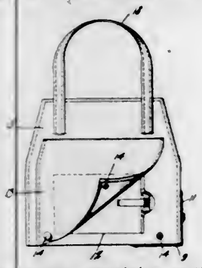


1. In a device of the class described, a frame comprising side portions; a fixed bearing bar connecting the side portions of the frame; a tray comprising hingedly connected sections which are separable to receive the bearing therebetween; and a latch forming a releasable connection between the sections of the tray, the latch holding the sections of the tray on the bearing frictionally, whereby the tray will retain its position when loaded unsymmetrically, the tray being movable on the bearing under the application of a sufficient force.

1,478,202. COMBINATION HAND BAG AND CAMERA-CARRYING CASE. CARL CURTIS CADWELL, Rochester, Minn. Filed Dec. 9, 1921. Serial No. 521,155. 2 Claims. (Cl. 190—42.)

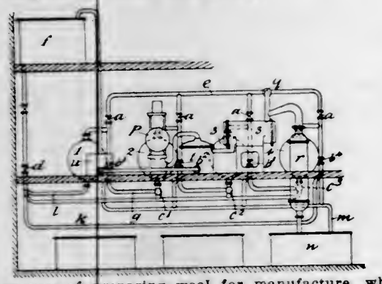
1. In a carrier, an upper section formed of hinged members, a lower camera containing section, having an open end, means for closing the open end of the

lower section, said lower section having an opening in the side wall thereof to expose a portion of the camera



supported in the camera containing section, and a flexible covering for closing the opening formed in the side wall of the camera containing section.

1,478,203. TREATMENT OF WOOL TO PREPARE IT FOR MANUFACTURE. TIMOTHY AUGUSTINE COGHLAN, London, England. Filed July 7, 1921. Serial No. 482,949. 1 Claim. (Cl. 8—12.)



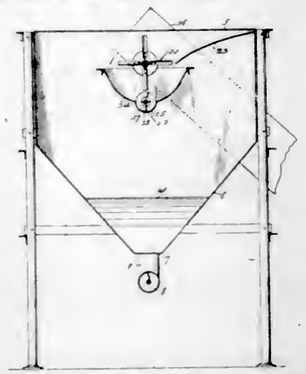
A process of preparing wool for manufacture, which consists in charging the wool into a series of connected vessels, then successively charging each vessel with trichlorethylene and discharging the trichlorethylene, then charging each vessel with carbon dioxide at a temperature not exceeding 45° C. and collecting and condensing the trichlorethylene thus expelled from the wool.

1,478,204. COMBINED SHOVEL AND HOE. EDWARD H. COONEY, HILDORE C. EKLUND, and SVEN T. WIPRUD, Great Falls, Mont., said Cooney assignor to said Eklund. Filed Feb. 23, 1922. Serial No. 538,584. 1 Claim. (Cl. 306—13.)



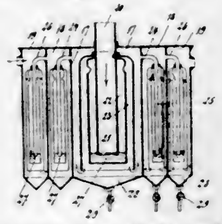
An implement of the class described, comprising an earth engaging blade provided with an outturned upper end, a pair of spaced combined reinforcing and attaching plates secured against and extending transversely of the forward face of the blade in proximity to said outturned end, each of said attaching plates including a body portion having the inner end thereof formed with a forwardly projecting lug, said lugs spaced from and opposing each other and having their forward edges notched, a handle, means for pivotally connecting the shank of said handle between said lugs and a spring actuated means upon said shank to selectively engage said notches.

1,478,205. METHOD OF AND APPARATUS FOR COLLECTING LIGHT PRODUCTS. WILLIAM H. DAVIS, Charleston, W. Va. Filed Nov. 29, 1921. Serial No. 518,682. 11 Claims. (Cl. 83—54.)



1. A gravity separator having a closed casing having a zone adapted to contain substantially motionless air, means for agitating air at the top of the casing, and substantially airtight means for delivering products slightly heavier than air to the zone of the casing in which the air is agitated.

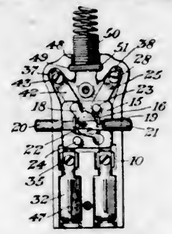
1,478,206. APPARATUS FOR CONDENSING DISTILLED VAPORS. GASTON DE BÉTHUNE, Brussels, Belgium. Filed May 12, 1923. Serial No. 638,442. 3 Claims. (Cl. 257—42.)



1. In an apparatus of the kind described condensing elements comprising tubes arranged one within the other and forming a central chamber and concentric surrounding chambers, a multiplicity of said elements being mounted in principal concentric chambers whereby the vapors circulating through the principal concentric chambers are caused to circulate through the said condensing elements before passing from one principal chamber to the next principal concentric chamber.

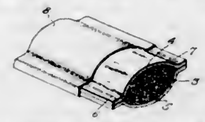
1,478,207. SWITCH PLUG. JOHN B. DOWNING, Newark, N. J., assignor to Beaver Machine & Tool Company, Newark, N. J., a Corporation of New Jersey. Filed Oct. 10, 1921. Serial No. 506,794. 4 Claims. (Cl. 200—51.)

1. A switch plug comprising a casing, a unit removable from the casing including a switch, a lead wire terminal and a plug socket, and a second unit also removable as such from the casing including a second



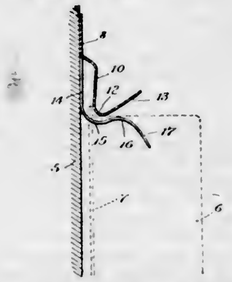
lead wire terminal, a second plug socket and a conductor connecting the said second lead wire terminal and second plug socket.

1,478,208. MOTH DESTROYING AND REPELLING DEVICE. WILLIAM J. DUDDLESON and CLINTON L. SLUSHER, San Luis Obispo, Calif. Filed Mar. 19, 1923. Serial No. 626,109. 1 Claim. (Cl. 167—6.)



A device as described comprising a fabric and flexible casing, a filler within the casing holding large quantities of oils of cedar, and a thin coating about the casing for allowing the vapors from the oils of cedar to pass therethrough but regulating the rate of volatilization.

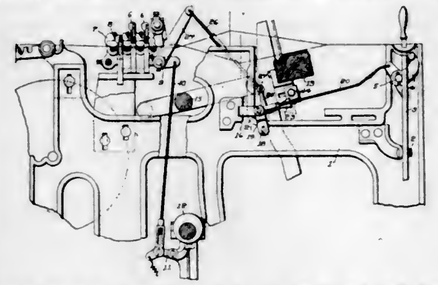
1,478,209. UTENSIL HANGER. ALBERT E. EATON, Seattle, Wash. Filed Feb. 28, 1923. Serial No. 621,820. 1 Claim. (Cl. 242—22.)



A utensil hanger formed of a single piece of spring metal comprising a body portion, a spring tongue formed by offsetting a central vertical portion of said body leaving a slot therein, said tongue extending downwardly and bent upwardly to form an elbow and an upper lip, an independently acting jaw on either side of said tongue and slot, both of said jaws curved outwardly and upwardly to form saddles substantially concentric with the elbow of said tongue, and both of said jaws curved downwardly to form co-acting shoulders and lower lips substantially as described.

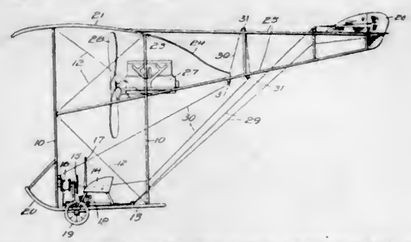
1,478,210. WARP STOP MECHANISM FOR LOOMS. B D LENHART ELLISON, Atlanta, Ga., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Nov. 23, 1922. Serial No. 602,751. 4 Claims. (Cl. 139—367.)

1. In a warp stop mechanism for looms, the combination of a shipper, a knock-off lever therefor, a bracket secured to the loom frame, a swinging carrier mounted on the bracket, a dog pivotally mounted on the carrier and a link connecting the carrier and knock-off lever, the lay, a bunter thereon to cooperate with the dog on the back stroke of the lay and swing the carrier, a series of drop wires normally supported by the warp threads during weaving, a sliding feeler adapted to be arrested in its sliding movement in one direction by a released drop



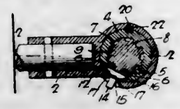
wire, an arm projecting upwardly from the dog and rigidly secured thereto for movement with the carrier and dog, an actuator for sliding the feeler in its detecting movements, and a link moved by the actuator and directly connected to the arm projecting upwardly from the dog constructed and arranged to permit knock-off movement of the dog without lost motion between the parts.

1,478,211. AEROPLANE. HARLIN G. FARMER, Garnett, Kans. Filed Aug. 30, 1921. Serial No. 496,889. 1 Claim. (Cl. 244—14.)



In an aeroplane a main supporting frame carrying controlling elements at the rear, a main sustaining plane above the frame at the front, a rear plane movably coupled to the main frame, a motor including a drive shaft and supported by the frame beneath the main sustaining plane, a propeller mounted on the main shaft of the motor and operating rearwardly of the forward line of the main plane and relatively close to the under surface of the same, and a seat for the operator supported on the main frame below the line of the propeller and in advance thereof, whereby the balance between the parts is effected and the equilibrium thereby maintained.

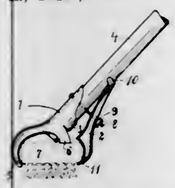
1,478,212. RATCHET MECHANISM. THOMAS J. FEGLEY and GEORGE O. LEOPOLD, Philadelphia, Pa., assignors to North Bro's M'f'g Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 3, 1923. Serial No. 629,663. 2 Claims. (Cl. 74—54.)



1. The combination in ratchet mechanism, of a casing; a bushing located in the casing; a toothed spindle extending through the bushing, the bushing having a transverse slot therein; a key located in the slot and holding

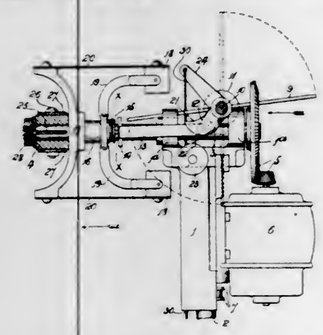
the spindle to the bushing, said bushing having a longitudinal key slot therein, the casing also having a longitudinal key slot; a key located in the slots and preventing the bushing turning in the casing; a longitudinal slot in the bushing; pawls mounted in the slot and engaging the spindle; and a shifter for the pawls.

1,478,213. BRUSH OR BROOM HOLDER. ANTON OLSEN FÖRISDAL, Lillehammer, Norway. Filed June 30, 1921. Serial No. 481,701. 2 Claims. (Cl. 15—146.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A brush or broom holder comprising in combination a stick, a stationary jaw attached to the stick and adapted to hook over the front edge of the brush head, spaced shoulders on said stationary jaw adapted to engage the back of the brush, a movable jaw having a concave upper end bearing on the stick and a curved lower end adapted to hook over the rear edge of the brush head and means for causing the movable jaw to swing about its upper end as a fulcrum, thus clamping the brush head between the stationary and movable jaws.

1,478,214. WINDMOTOR. JOHN GARDNER, Carnforth, England. Filed May 28, 1923. Serial No. 641,925. 9 Claims. (Cl. 170—44.)



1. In a windmotor of the leeward type, a rotatable windwheel mounted for bodily movement about a vertical axis, a governor vane extending laterally of the axis of rotation of the windwheel and mounted for rotation therewith about the vertical axis, said vane being adjustable to present variable effective surface areas to the action of the wind, and a centrifugal device driven by the windwheel for varying the surface area of the vane which is exposed to the wind in proportion to the speed of the windwheel.

1,478,215. PROCESS FOR MAKING AGGLOMERATES OF FINE ORES. CARL GIESECKE, Bad Harzburg, Germany. Filed Feb. 17, 1921. Serial No. 445,828. 4 Claims. (Cl. 75—73.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

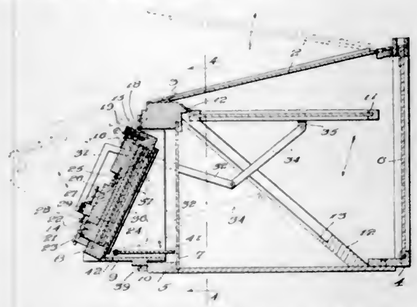
1. The process of utilizing finely-divided ore which consists in mixing the fine ore with powdered fuel and as much water as is necessary for moulding the mixture when the latter is extruded through a suitable die, cutting said moulded material into separate pieces, and introducing said pieces into a blast furnace.

1,478,216. BRACKET FOR PULLEYS, LEVERS, OR THE LIKE. FRED HAMPSON GILBODY, Prestbury, near Macclesfield, England. Filed May 23, 1921. Serial No. 472,010. 3 Claims. (Cl. 287—12.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



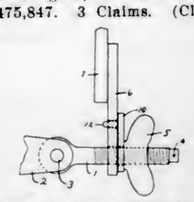
1. In mountings for pulleys, the combination of a pillar having a base of partly spherical form so constructed that the plane of the base does not lie at right angles to the vertical axis of the pillar, a base washer, the two faces of which are not parallel, and a cuplike plate holding the whole down substantially as described.

1,478,217. PRINTING FRAME. D. WEBB GRAY, Los Angeles, Calif., assignor of one-half to W. T. Louder, Los Angeles, Calif. Filed Sept. 3, 1920. Serial No. 407,855. 9 Claims. (Cl. 95—73.)



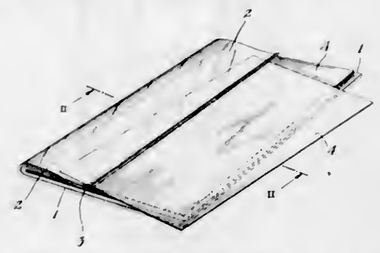
1. In a printing frame, a tubular hood open at its ends, an open end frame at each end of the hood, a printing frame hinged to the top of one of the said end frames at the outer face thereof, a ruby glass holder pivoted to the said end frame at the inner face thereof, a partition arranged in inclined position transversely of the hood between the top of the frame to which the ruby glass holder is hinged, and the bottom of the other end frame, and having an opening for receiving the ruby glass holder, said printing frame having a hinged back arranged to open, and a connection between the said back and the ruby glass holder for closing said holder when the back is opened, the hood having a removable top.

1,478,218. FASTENING DEVICE. CLYDE MALCOLM HAMBLIN, Washington, D. C. Filed June 7, 1921. Serial No. 475,847. 3 Claims. (Cl. 292—256.)



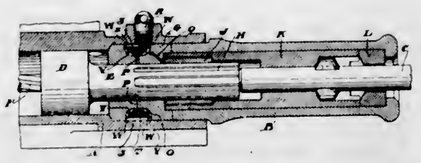
1. In a fastener having a pivoted member, a slotted member, and means for drawing the pivoted member through the slot of the slotted member; a keeper operated by the said drawing means adapted to engage the pivoted member and means for securing said keeper to the slotted member to retain the pivoted member in position in the slotted member.

1,478,219. POCKET MEMORANDUM HOLDER. HOWARD HAMMITT, Plainfield, N. J. Filed Feb. 2, 1921. Serial No. 441,767. 1 Claim. (Cl. 129—35.)



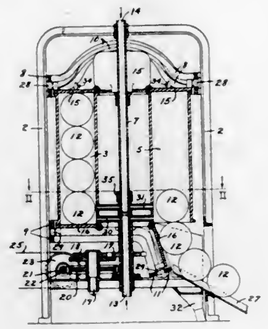
A pocket memorandum holder longer than it is wide, adapted to be held in the hand and consisting of a sheet of resilient transparent material having its long edge at the left side looped and returning on the body of the sheet for about a third of the width of the holder so as to overlie a relatively large part of said sheet which constitutes a backing, the crease or closed end of the loop having a relatively long radius and the loop as a whole narrowing toward its inner end, movement away from the body being thus resiliently opposed by said edge, said edge being provided with a sheet-guiding lip and with a roughened portion on its underside adjacent said lip for retaining a sheet against slipping, said edge thus forming a transparent expansible sheet retaining pocket extending along the left side of the holder, a stack of memorandum sheets variable in number received and resiliently and adjustably gripped in said pocket, protected thereby and held against the backing sheet, whereby the uppermost sheet may be written upon when gripped by the pocket and supported by the backing the data so written being visible through the pocket when the sheet is returned thereto and whereby the falling away of said sheets from the backing when the device is turned so that the sheets are on the underside is prevented, the pocket by virtue of its expansibility being capable of admitting the stack whatever its number of sheets within the range of the device, substantially as described in the specification and as shown in the drawings.

1,478,220. OILING DEVICE FOR ROCK DRILLS. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 29, 1921. Serial No. 518,680. 4 Claims. (Cl. 184—24.)



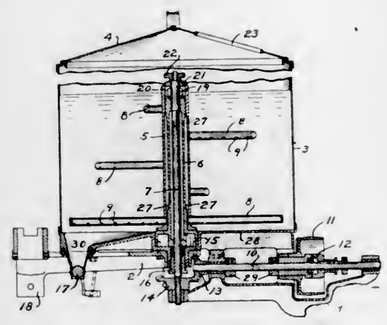
1. In a rock drill, the combination of relatively movable members, a groove in one of said members remote from but in communication with the other of said members, an oiling device in said groove comprising a ring of absorbent material, and a perforated holder for said ring adapted to hold said ring away from the sides of said groove.

1,478,221. STERILIZING APPARATUS. OSWALD H. HANSEN, Port Washington, Wis., assignor, by direct and mesne assignments, to Hansen Canning Machinery Corporation, a Corporation of Wisconsin. Filed Feb. 19, 1921. Serial No. 446,339. 17 Claims. (Cl. 126—272.)



17. In combination, an annular series of chambers movable about a vertical axis, means for admitting food laden containers to the upper extremities of successive chambers of said series, means for successively heating and cooling said containers while within said chambers, and means for delivering said containers from the lower extremities of successive chambers of said series.

1,478,222. COOKER. OSWALD H. HANSEN, Port Washington, Wis., assignor to Hansen Canning Machinery Corporation, Port Washington, Wis. Filed Sept. 22, 1922. Serial No. 589,889. 19 Claims. (Cl. 99—2.)

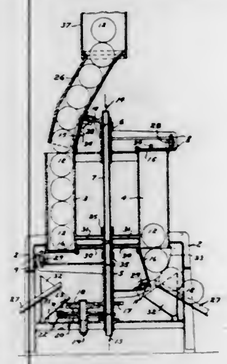


1. In combination, means forming a chamber, a stationary member supported from one end only and projecting into said chamber, a sleeve journalled on said member, a plurality of fluid conductors carried by and projecting laterally from said sleeve, means for delivering fluid through said member to said conductors, and means for discharging said fluid from said conductors into said chamber.

1,478,223. STERILIZING APPARATUS. OSWALD H. HANSEN, Port Washington, Wis., assignor to Hansen Canning Machinery Corporation, Port Washington, Wis., a Corporation of Wisconsin. Filed Dec. 4, 1922. Serial No. 604,643. 10 Claims. (Cl. 126—272.)

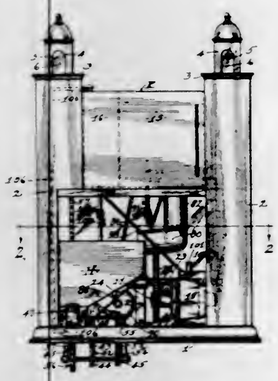
3. In combination, means forming a stationary chamber, means for automatically stationarily confining a

plurality of food laden containers within said chamber, means for successively heating and cooling all of said con-



fined containers, and means for effecting automatic release of said containers from said stationary chamber.

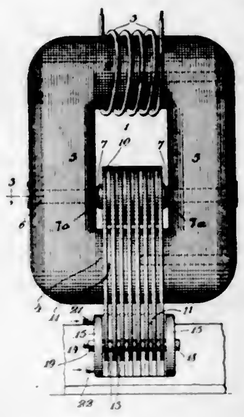
1,478,224. FRUIT-JUICE MACHINE. JAMES E. HENNESSY, Los Angeles, and CARL F. BLATTNER, Long Beach, Calif. Filed Jan. 11, 1923. Serial No. 612,102. 29 Claims. (Cl. 146—3.)



1. A fruit juice machine including a base, a hopper for the fruit mounted thereon, a cleaner above the level of said hopper, means for elevating the fruit from said hopper to said cleaner, a grinder supported on said base below and connected with said cleaner, and means for moving the fruit through said cleaner and discharging the same into said grinder.

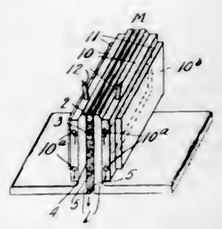
1,478,225. ELECTRIC WELDING OR FORGING APPARATUS. IRA W. HENRY, New York, N. Y., assignor, by direct and mesne asignments, to The Electric Forge Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 12, 1921, Serial No. 499,879. Renewed Nov. 28, 1922. 1 Claim. (Cl. 219—4.)

The combination of a closed transformer core having a primary winding about one portion of it; and a pair of secondary current, circuit-forming work clamping jaws in mechanically pivoted connection with opposed side portions of the core adjacent the primary winding; one of the jaws being prolonged past one side of another portion of the core and the other past the other side of said



portion, and being movable towards and away from one another for gripping the work to be welded exteriorly of the core.

1,478,226. ELECTRIC-WELD-FORGING MAT. IRA W. HENRY, New York, N. Y., assignor, by direct and mesne assignments, to The Electric Forge Corporation, New York, N. Y., a Corporation of Delaware. Original application filed Aug. 4, 1921, Serial No. 489,869. Divided and this application filed Mar. 11, 1922, Serial No. 542,905. Renewed Nov. 23, 1922. 3 Claims. (Cl. 219—4.)

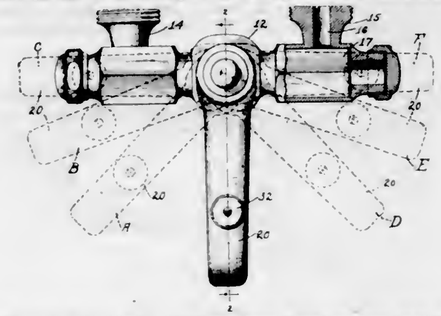


1. As a new article of manufacture, the herein described welding mat comprising a plurality of spaced apart, fusible, electric metallic conductors having cross-sectional areas of successively reduced cross-section from one portion of the mat to another portion; and means for holding the conductors in mat form.

1,478,227. COMBINATION FAUCET. KEVA HOFFMAN, Chicago, Ill. Filed Sept. 26, 1921. Serial No. 503,129. 4 Claims. (Cl. 251—106.)

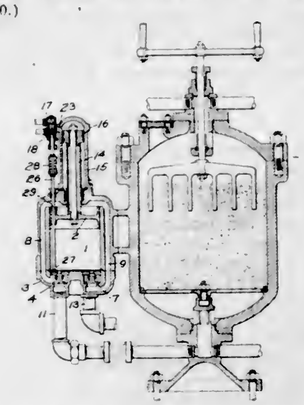
1. A faucet of the class described comprising a body member adapted to be connected to hot and cold water supply pipes and formed so as to provide a valve seat and passageways leading from said valve seat to the respective pipes, a valve member on said seat, and a swinging spout fixed to said valve member, said valve member having ports in communication with the passageway in said spout and so arranged that when the spout is in

normal position communication between the passageways in said spout and the passageways in the body member is cut off but when the spout is swung to either side from



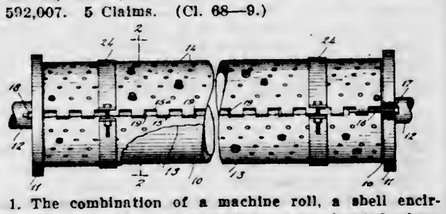
its normal position communication therebetween may be established so that either hot or cold water or both hot and cold water may be drawn, as desired.

1,478,228. PUMP. JOHN M. HOPWOOD, Dormont, and BRYANT BANNISTER, Pittsburgh, Pa., assignors to George J. Hagan, trustee, Perrysville, Pa. Filed Nov. 19, 1921. Serial No. 516,392. 6 Claims. (Cl. 103—50.)



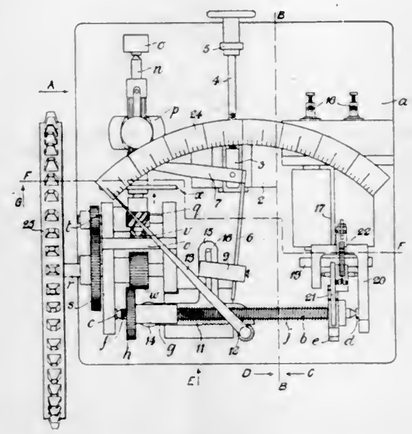
1. A pump having in combination a cylinder, valves controlling the flow of fluid to and from said cylinder, a piston having an area at one end or side substantially greater than that of the other end or side and means operating intermittently in the same direction as the pressure acting on the end of the piston having the smaller area to overcome the pressure acting on the other side or end of the piston.

1,478,229. COVER FOR IRONING ROLLS. HARRY M. HORNE, Hilton, N. J. Filed Oct. 3, 1922. Serial No. 592,007. 5 Claims. (Cl. 68—9.)



1. The combination of a machine roll, a shell encircling the same and co-operating means located along the contiguous longitudinal edges of said shell for securing it in place upon said roll.

1,478,230. APPARATUS FOR SYNCHRONIZATION. HAROLD AUBREY JOHNSON, Bristol, England. Filed Nov. 2, 1921. Serial No. 512,290. 3 Claims. (Cl. 264—9.)

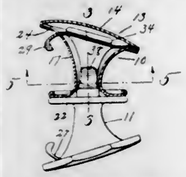


3. Apparatus for automatically governing the speed of rotation of one machine in such a manner as to maintain its speed at a predetermined constant proportion to that of a second machine, said means comprising a commutator on the latter machine, an electric circuit adapted to be interrupted by the commutator, a gear wheel mechanically rotated by the governed machine, a ratchet wheel whose rotation is controlled by the interruptions of the electric circuit, said gear wheel and ratchet wheel being adapted to rotate at equal speeds when the speed of rotation of the governed machine is the predetermined proportion of that of the other machine, a spindle on which the gear wheel and ratchet wheel are mounted one of them being keyed to the spindle and the other adapted to screw loosely onto a threaded portion of the spindle, a helical spring connecting the gear wheel and ratchet wheel said spring being coiled round the spindle whereby motion may be lost or gained between the ratchet wheel and gear wheel, means whereby a difference of speed between the gear wheel and ratchet wheel causes one of them to move laterally, a retarding brake adapted to be continuously applied to rotating parts in mechanical connection with one of the two machines, a connecting link disposed between the retarding brake and the laterally moving wheel so that the lateral movement of the wheel increases or lessens the pressure of the retarding brake so as to maintain the speed of the governed machine at the predetermined proportion of the other machine, and means for altering the effective length of the connecting link between the retarding brake and the laterally moving wheel, means whereby the speed of rotation of the governed machine may be accelerated or retarded for a short interval of time without altering the speed of rotation of the other machine.

1,478,231. CUFF BUTTON. GEORGE KOLLSTEDE, Providence, R. I., assignor to V. E. Black Company, Incorporated, a Corporation of Rhode Island. Filed Apr. 20, 1923. Serial No. 633,434. 3 Claims. (Cl. 24—102.)

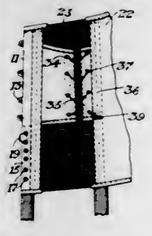
1. In a cuff button, a socket member comprising a tubular inwardly converging post provided with a longitudinal slot, a head upon the outer end of the post, and a flange upon the inner end of the post, a resilient tiltable plate supported at one end by the post, a finger upon the other end of the plate extending through the slot,

locking fingers on the plate engageable with the retracted portion of the post, a spring in the head engaging the



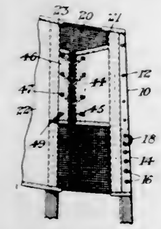
plate, a link, and a head on the link adapted to enter the retracted end of the post to receive the locking fingers.

1,478,232. APPAREL GARMENT. DANIEL KOPS, New York, N. Y., assignor to Kops Bros. Inc., New York, N. Y., a Corporation of New York. Filed June 17, 1922. Serial No. 568,936. 3 Claims. (Cl. 2—73.)



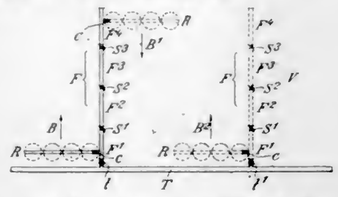
1. In an apparel corset, front steel sections, elastic sections adjacent the front steel sections extending from the upper to the lower edges of the garment and connecting the front steel sections to the body of the garment, devices underlying the said elastic sections for adjusting the garment to position, a central back section, elastic inserts on both sides of the central back section extending from the lower edge of the garment upwardly, inelastic back sections extending on both sides of the central back section from the upper edge of the garment downwardly and underlying the upper edges of the said elastic inserts, and stays placed in the said back inelastic sections for cooperating with the said elastic inserts whereby the elastic inserts maintain the garment in position adjustably from parts below the waistline downwardly and the said stay members through their cooperation with the elastic inserts produce a pocket at the upper edge of the garment for the reception of the flesh of the body of the wearer.

1,478,233. APPAREL GARMENT. DANIEL KOPS, New York, N. Y., assignor to Kops Bros. Inc., New York, N. Y., a Corporation of New York. Filed June 17, 1922. Serial No. 568,937. 4 Claims. (Cl. 2—73.)



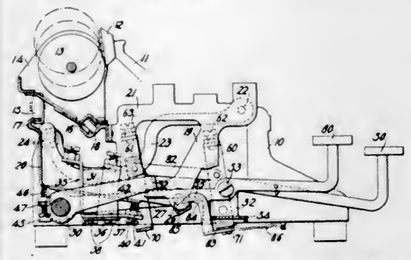
1. In an apparel corset, front steel sections, elastic sections adjacent the front steel sections and extending from the upper to the lower edges of the garment, a back central section, an elastic insert in the back central section and adapted to overlie the small of the back of the wearer, and adjusting devices underlying the said elastic sections at the front of the garment whereby in the adjustment of the garment to position a pull is effected at the sides in both directions circumferentially of the garment.

1,478,234. IRRIGATION SYSTEM. WALTER KRAUSE, Friesack, Germany. Filed May 21, 1920. Serial No. 383,326. 4 Claims. (Cl. 299—58.)



1. An irrigation system comprising a main supply conduit having a plurality of closed outlets disposed suitable distances apart, a field conduit adapted to be successively connected to the outlets of said main supply conduit and composed of sections connected by joints, normally closed outlets in said field conduit, valves in said field conduit, means operated by the pressure water within the sections of the field conduit connected with the main supply conduit to withdraw water from the sections of the field conduit which have been separated by the valves from the main supply conduit, and a sprinkling member adapted to be connected to the outlets of said field conduit.

1,478,235. TYPEWRITING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 5, 1920. Serial No. 414,731. 14 Claims. (Cl. 197—72.)

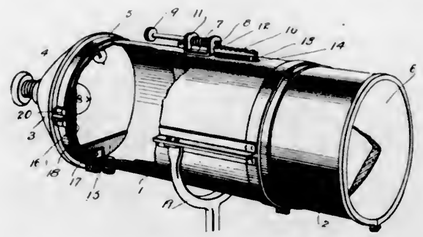


1. In a typewriting machine, in combination, a platen, a traveling platen-carriage, a shift-frame on which said platen-carriage is supported, a stationary stop at each side of the machine to support the rear of said shift-frame, and a second stationary stop at each side of the machine to engage and support the adjacent side of the shift-frame and spaced to the front from the corresponding stop for the rear of the shift-frame, the construction and arrangement being such that the downward pressure of the shift-frame will be directed between the front and rear stops, thereby insuring a firm, stable support for the platen and shift-frame in lower-case position.

1,478,236. LAMP. WILLIAM A. LUBY, Kansas City, Mo. Filed July 14, 1922. Serial No. 575,076. 2 Claims. (Cl. 240—41.)

1. A light projector comprising an elongated tubular casing, a parabolic reflector at the rear end of the casing, a light source in the focus of the reflector, a condensing lens at the front end of the casing of a diameter

substantially equal to the diameter of the mouth of the reflector, the length of the casing being such that the focus of the lens is within the rear of the casing just outside the mouth of the reflector, and an opaque segmental diaphragm located in the lower part of the casing



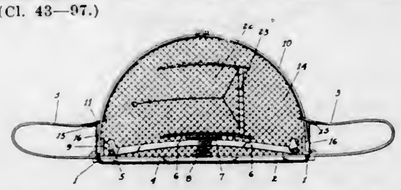
below the axis of the reflector and in the focal plane of the lens, the rear side of the diaphragm having a reflective surface so that the major portion of the light reflected back to the reflector will, on reflection therefrom, pass above the diaphragm through the lens, the inner surface of the casing being light absorbing.

1,478,237. COMPOSITION OF MATTER AND PROCESS OF USING THE SAME. ROYER LUCKENBACH, Brooklyn, N. Y., assignor to Luckenbach Processes, Inc., San Francisco, Calif., a Corporation of Nevada. Filed Apr. 22, 1919. Serial No. 291,860. 10 Claims. (Cl. 83—85.)



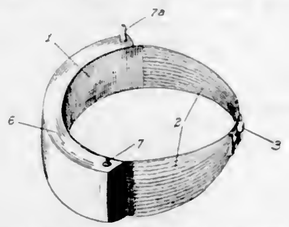
1. A mineral selective composition for use in surface concentration of ores, comprising a mineral hydrocarbon, liquefied caoutchouc, and silicate of soda.

1,478,238. TRAP. AUGUST MARENGO, Stockton, Calif. Filed Mar. 13, 1923. Serial No. 624,698. 10 Claims. (Cl. 43—97.)



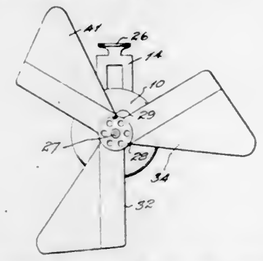
7. In a trap, bands to rest on the ground and enclose a certain area, jaws to swing from the plane of the bands upwardly toward each other, flat slotted springs through which the jaws pass and arranged to control the movement thereof, flexible net structures connected to and extending between the bands and jaws, said nets being cut away from the jaws for those portions on which the springs move, transverse bars fixed on the movable members of the springs outwardly of the jaws and nets and extending on each side of the springs beyond the edges of the net openings, and auxiliary flexible nets depending from the bars and attached thereto and to the first mentioned bands.

1,478,239. SWIMMING BELT. JOSEPH MARENGO and AUGUST MARENGO, Stockton, Calif. Filed Sept. 21, 1921. Serial No. 502,140. 1 Claim. (Cl. 9—17.5.)



A swimming belt having its end portions of elastic material but the portion therebetween of non-elastic material, said ends having co-operative fastening means, and a pliable air chamber member adapted to receive air under compression mounted on the non-elastic portion of the belt, whereby when placed about the body of the wearer the belt will accommodate itself to different sizes of bodies but the filling of the air chamber with compressed air will not cause a lengthening of the belt.

1,478,240. ROTARY HAND FAN. DOMENICO MARRAZZO, Brooklyn, N. Y., assignor of one-third to Joseph L. Trivisonno and one-third to Saverio Balzano, both of Brooklyn, N. Y. Filed June 15, 1921. Serial No. 477,621. 2 Claims. (Cl. 230—33.)

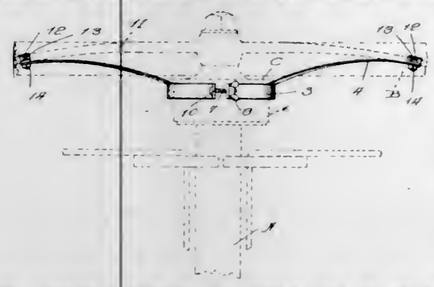


1. In a rotary hand fan, a centrally slotted reciprocating plunger, rack teeth formed on one edge of said plunger, a base plate, an arm extending horizontally from said base plate substantially midway between the ends thereof, an L-shaped cover plate, a leg on said cover plate substantially parallel to and disposed oppositely to said arm of said base plate, a second leg on said cover plate in a plane in spaced relation and parallel to the plane of said first mentioned leg and adapted to maintain the face of said plunger in position, a shaft journalled in said arm and said second leg near the ends thereof, a pinion loosely mounted on said shaft and in engagement with the rack teeth of said plunger, a gear on said shaft operatively connectible to said pinion on the downward movement of said plunger, a drven shaft journalled in said L-shaped plate near the bend thereof and in said base plate, a guide arranged in the slot of said plunger and between said second leg of said cover plate and said base plate, and a pair of screws passing through said cover plate, guide, and base plate, for holding said shafts, gears, plates and plunger together as a unit.

1,478,241. SAFETY STEERING DEVICE FOR CARS. HERMAN F. MATSON, La Crosse, Wis. Filed Feb. 15, 1923. Serial No. 619,181. 1 Claim. (Cl. 74—33.)

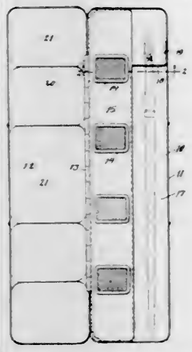
A device adapted to be used in combination with a steering wheel and journal bearing for stiffening the journal comprising a piece of sheet metal having an arcuate body portion and an arm portion disposed radi-

ally therefrom and located at the arcuate edge thereof and at a point midway between the ends thereof, said arm having at its outer end a cross head portion provided at its ends with bolt openings, a clamping member mounted upon the cross head portion and secured thereto by bolts passing through said openings, means



for frictionally securing the arcuate body to the exterior surface of the bearing, the cross head portion and the clamping member adapted to receive between them a spoke of the wheel whereby the spoke is completely circumscribed and is tightly clamped by the bolts between the cross head portion and the clamping member.

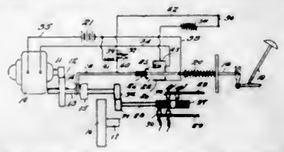
1,478,242. PAINT BOX. WILLIAM H. MILLIKEN, Jr., Brooklyn, N. Y., assignor to Binney & Smith Co., New York, N. Y., a Corporation of New Jersey. Filed Feb. 20, 1923. Serial No. 620,153. 5 Claims. (Cl. 41—4.)



1. A paint box having a hinged cover, a tray within said box and having a top wall provided with apertures, color pans mounted within said apertures, said tray having depending side walls for supporting said top wall and one of said side walls being substantially parallel to and spaced from the side walls of the box to form a brush receiving compartment, and a brush support extending from said tray wall to said box wall to hold said walls in spaced relationship, said support having a recess in the upper side thereof to receive a brush and said box cover having a depending ridge extending transversely of the upper surface and spaced from the end of the box to register with the brush support and retain the brush in said recess when the cover is closed.

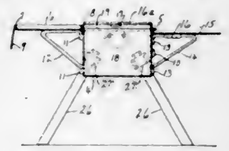
1,478,243. COMBINED MOTOR STARTER AND GEAR SHIFTER. HOWARD J. MURRAY, New York, N. Y. Filed July 15, 1919. Serial No. 311,068. 24 Claims. (Cl. 290—28.)

8. In a device of the class described, the combination with a power member, a gear shifting mechanism and a driven device, of means for selectively coupling the power member in direct driving relation either with the gear shifting mechanism or with the driven device and means acting on said last named means and tending to interrupt the driving connection between the power



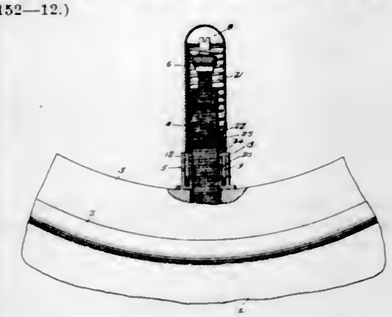
member and said driven device and to restore the driving connection between the power member and the gear shifting mechanism.

1,478,244. CAMP FURNITURE. FREDERICK G. MUSSO, San Jose, Calif. Filed Apr. 18, 1921. Serial No. 462,329. 4 Claims. (Cl. 190—12.)



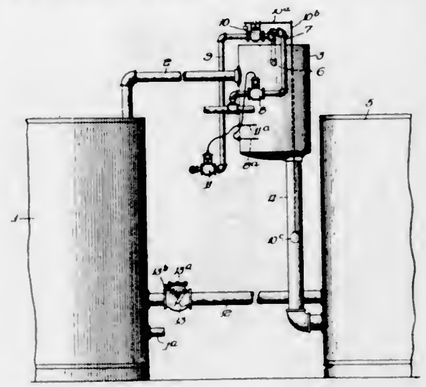
3. A device of the character indicated comprising an oblong case enclosed on all sides, a cover hingedly mounted along one of its longer edges, means for supporting the same in a horizontal position when open, a shelf member insertible in the top of said case removably mounted thereon, collapsible supports therefor attachable to said case for supporting said shelf member in a horizontal plane adjacent the edge of said case opposite said cover.

1,478,245. DUST CAP FOR PNEUMATIC-TIRE VALVES. AARON F. NELSON, Hollidaysburg, Pa. Filed Mar. 7, 1922. Serial No. 541,709. 1 Claim. (Cl. 152—12.)



A valve protector comprising a nut having an annular groove with pins disposed across the groove, a tubular cap having a trackened end portion adapted to fit snugly in the groove of the nut and having slots adapted to receive the pins, the thickened portion of the cap terminating at its upper edge in an interiorly located annular shoulder, a sleeve fitting snugly and slidably in the thickened portion of the cap, the outer end of the sleeve adapted to bear against the intermediate portion of the face of the nut when the thickened portion of the cap is inserted in the annular groove, the sleeve being provided at its inner end with an outwardly disposed annular flange adapted to engage the shoulder of the thickened portion of the cap and limit the sliding movement of the sleeve in the cap, the cap being closed at its outer end and a coil spring interposed between the closed end of the cap and the flanged end of the sleeve and being under tension with a tendency to hold the flange of the sleeve toward the shoulder of the cap.

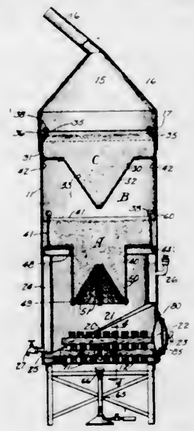
1,478,246. AUTOMATIC HOT-WATER SUPPLY FOR TANKS. SPENCER OTIS, Chicago, Ill. Filed July 3, 1919. Serial No. 308,616. 13 Claims. (Cl. 122—396.)



1. In a water circulating system, a supply tank, a heater, a water supply and a heating medium supply both delivering to said heater, a water-level actuated device in said tank controlling said heating medium supply, and means located in said heater whereby arrival of heating medium therein causes release of the water supply.

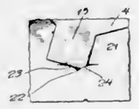
10. In a water circulating system, two supply tanks having a connection through which water may flow from one to the other, one of said tanks being provided with a water supply, a heating medium supply, a valve for controlling the water supply which is in turn controlled by the delivery of heating medium and a water-level actuated device controlling said heating medium supply, the connection between the tanks being provided with a back-flow check valve.

1,478,247. RETORT FOR DESTRUCTIVE EVOLUTION AND OXIDATION. CLARENCE F. OTT, Whittier, Calif. Filed Jan. 27, 1921. Serial No. 440,477. 2 Claims. (Cl. 203—6.)



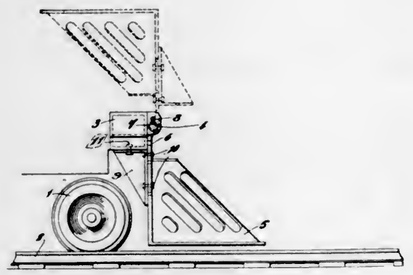
1. In a retort for destructive evolution and oxidation, a closed shell, an upper and lower tray within the shell for receiving therein a granular mass, the said trays being centrally dipped and provided with handle members for removing the same from the shell, and an annular water wall within said shell and inclosing a portion of the lower tray and having an inclined lower end.

1,478,248. ENVELOPE. NICK PAPPARODIS, Beaver Falls, Pa. Filed Mar. 18, 1922. Serial No. 544,825. 1 Claim. (Cl. 229—84.)



An envelope having a body portion and a number of flaps extending therefrom and adapted to be folded over upon the body portion and in overlapping relation to provide an enclosure, one flap having a tongue thereon and another flap having a slot adapted to receive the tongue, said tongue being substantially of the same width as the length of the slot and being substantially rectangular at its end, said slot having an inner straight wall and having in its outer wall a substantially V-shaped opening intermediate the ends of the slot, the opposite edges of said opening flaring and being rounded toward the straight wall and merging into the slot at the opposite ends themeof, whereby upon engagement of a corner of the tongue in said opening against any part of said curved edges and upon the lateral shifting of the tongue the sides of the slot will envelope more of the corner portion of the tongue as the shifting action progresses and the tongue will be brought to a stop and held at the closed end of the slot.

1,478,249. PILOT. HARRY M. PFLAGER, St. Louis, Mo., assignor to Cast Steel Pilot Company, St. Louis, Mo., a Corporation of Delaware. Filed May 28, 1923. Serial No. 641,989. 10 Claims. (Cl. 293—48.)

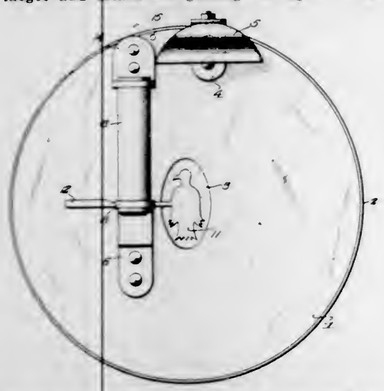


1. In a railroad vehicle, a frame, supporting wheels, and a pilot pivotally mounted thereon so as to be swung vertically as a unit out of the horizontal plane of said wheels.

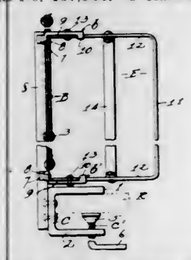
1,478,250. TARGET. ALBERT N. PORTER, Tulsa, Okla. Filed May 5, 1923. Serial No. 637,016. 6 Claims. (Cl. 124—15.)

1. A target comprising a field, a signal alarm mounted thereon, a figure mounted for movement over the field

and located below the alarm and serving as the eye of the target and means for guiding the figure in an upward direction toward the alarm when the figure is struck by a missile.

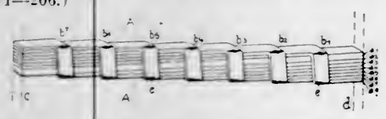


1,478,251. LUGGAGE CARRIER FOR AUTOMOBILES. ROBERT H. PRICHARD, Los Angeles, Calif. Filed May 9, 1921. Serial No. 467,944. 4 Claims. (Cl. 224—29.)



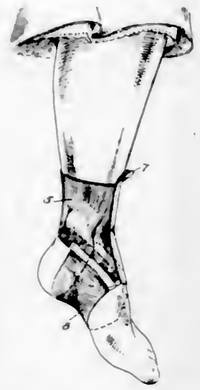
1. A luggage carrier having standards detachably held on a vehicle and provided with members extending inwardly thereof and spaced apart, and end members hingedly attached to said extended members at points inwardly of the standards and above the running board of a vehicle whereby the ends may be folded inwardly against the side of the carrier when not in use and outwardly therefrom and at right angles thereto when in position for use, as described.

1,478,252. BAR WINDING FOR ELECTRIC MACHINES. FRANKLIN PUNGA, Muhlheim-Ruhr-Speldorf, and HERMANN ROOS, Muhlheim-Ruhr, Germany. Filed Aug. 16, 1920. Serial No. 404,034. 4 Claims. (Cl. 171—206.)



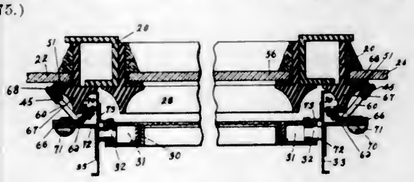
1. A laminated winding bar for electrical machines comprising laminæ of flat cross section piled one above the other and insulation between them, one lamina extending straight from the one end of the bar to the other end, and the other laminæ being transposed at some point so that each changes its position from the bottom lamina in one section of the bar to the top lamina in the next section, each lamina lying flat against its neighbouring lamina up to the said point and flat against the edges of all the other laminæ at the said point.

1,478,253. ANKLE SUPPORTER. ARTHUR QUENZER, Brooklyn, N. Y. Filed Aug. 9, 1922. Serial No. 580,605. 1 Claim. (Cl. 128—166.)



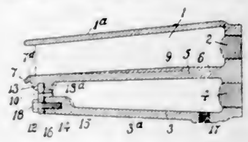
An improved ankle support and protector, comprising an ankle member consisting of a single strip of elastic webbing yieldable only transversely of the ankle having its ends brought together and permanently united by a reinforcing tape extending centrally and longitudinally of the instep, and an arch member consisting of a single strip of longitudinally yieldable elastic webbing secured to the bottom edge of the ankle member upon opposite sides by reinforcing tapes.

1,478,254. CLAMP. FRANK REESE, Minneapolis, Minn., assignor to Watson Manufacturing Company, Jamestown, N. Y., a Corporation of New York. Filed Feb. 1, 1923. Serial No. 616,447. 7 Claims. (Cl. 189—75.)



1. A clamp, comprising two legs substantially at right angles to each other, having a transverse slot in one leg and a threaded hole in the other leg, a plate folded around the end of the first named leg and passing through the slot therein and a screw in the hole in the other leg, said plate and screw co-acting to hold said clamp in functioning position.

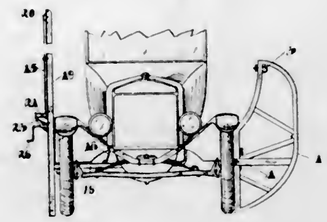
1,478,255. METHOD OF AND APPARATUS FOR ATOMIZING AND BURNING FUEL OIL. ERNEST ANDREW REID, London, England. Filed Feb. 2, 1922. Serial No. 533,645. 19 Claims. (Cl. 158—73.)



5. An apparatus for atomizing fuel oil, comprising a chamber; means for supplying the oil thereto; a surface on which the incoming oil spreads in a film; a lip over which the oil can fall in a thin curtain; and a plurality

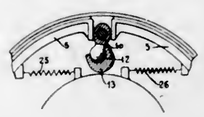
of horizontal rows of orifices which are arranged in pairs forwardly converging towards points approximately vertically beneath the edge of the said lip, the orifices in the respective rows being disposed in staggered relationship.

1,478,256. APPARATUS FOR TILTING AUTOMOBILES. JAMES OLVER REID, Oshawa, Ontario, Canada, assignor to James McBain Reid and said James Olver Reid, trading under the firm name of J. M. & J. O. Reid, Oshawa, Canada. Filed Aug. 21, 1922. Serial No. 583,352. 16 Claims. (Cl. 214—1.)



8. In apparatus for tilting automobiles, the combination of a pair of spaced rocker supports adapted to be secured to one side of an automobile while the latter is standing on a plane surface and directed outwardly from the side thereof, on to which the automobile is adapted to be tilted on its side, said rocker supports when in position being located substantially entirely above said plane surface, a tie bar connecting said rocker supports and a brace connected at one end with said tie bar and adapted at its other end to be engaged with part of the automobile, the connection between the brace and tie bar being adjustable longitudinally of the brace.

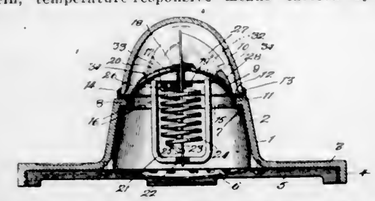
1,478,257. BRAKE FOR AUTOMOBILES. ARTURO ELIZALDE ROUVIER, Barcelona, Spain. Filed July 11, 1921. Serial No. 483,890. 2 Claims. (Cl. 188—194.)



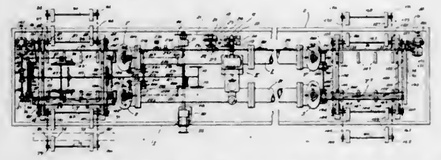
2. Mechanism for the operation of the brakes of the front wheels of motor vehicles of the kind described, consisting in combination of the wheel hub, brake segments mounted within the said hub, an operating lever disposed between the oppositely disposed ends of said brake segments, and a pressure applying element by which movement is imparted to the operating lever, said operating lever and pressure applying element being rotatable upon parallel axes, the said pressure applying lever comprising a cup and the said operating lever having a downwardly extending spherical part for engaging in the said cup, and the said cup having a curvature therein, substantially as described.

1,478,258. THERMOMETER AND SIMILAR INSTRUMENT. HERMAN SCHLAICH, Long Island City, N. Y. Filed May 10, 1921. Serial No. 468,324. 17 Claims. (Cl. 73—118.)

1. In a thermometer, a dial plate, a supporting plate mounted beneath the same, a tubular bushing connecting said plates and holding the edge of the supporting plate in frictional engagement with the dial plate, an arbor passing through said bushing and rotatably journaled therein, temperature-responsive means carried by said supporting plate and operatively connected to said arbor, and indicating means operatively connected to said arbor.

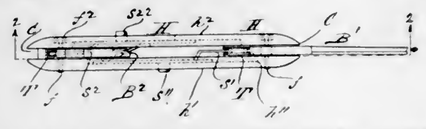


1,478,259. AUTOMATIC CHARGING AND DISCHARGING APPARATUS FOR WOOD-TREATING PLANTS. GRANT B. SHIPLEY and JACK B. SHIPLEY, Pittsburgh, Pa. Filed July 13, 1922. Serial No. 574,831. 21 Claims. (Cl. 214—17.)



1. In combination in a wood-treating apparatus, a treating cylinder, a conveyor for transversely feeding the articles to be treated into alignment with the cylinder, a second conveyor for moving the same longitudinally into the treating cylinder, driving means for actuating both said conveyors, and means operated by movement of said articles for connecting and disconnecting the driving means and conveyors.

1,478,260. POCKETKNIFE, ETC. JAMES T. SIBLEY, New York, N. Y. Filed Nov. 18, 1922. Serial No. 601,705. 5 Claims. (Cl. 30—10.)

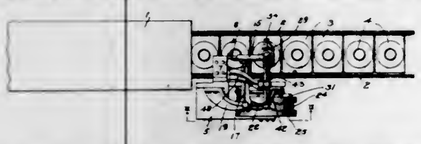


1. In a knife of the character designated, the combination of a blade, the tang of which is formed with an elongate fulcrum slot and with a locking tongue, a fulcrum on the handle extending through said elongate slot in the tang of the blade, a toggle pivotally connecting the tang of said blade with a slide mounted in a recess in the handle, elastic resilient pressure means tending constantly to hold said slide against the back wall of said recess, said slide formed with shoulders for contactual engagement with a locking abutment in the handle and with a finger stud, and said handle formed with a locking abutment and with an elongate slot through which said finger stud protrudes, and also with a shoulder for engagement with said locking tongue on the tang of the blade, substantially in the manner and for the purpose described.

1,478,261. GLASSWORKING MACHINE. THEODORE H. SLOAN, Charleroi, Pa., assignor to Macbeth-Evans Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 24, 1921. Serial No. 455,026. 17 Claims. (Cl. 49—27.)

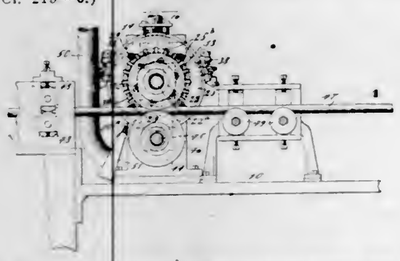
10. In a glass-finishing apparatus, the combination of a conveyor for carrying glass articles through a heating furnace, a frame, a tool carrier mounted on the frame for reciprocating movements parallel to the conveyor, a

finishing tool mounted for reciprocating movement on said carrier, an article positioner borne by the carrier and movable to and from an article in coordination with



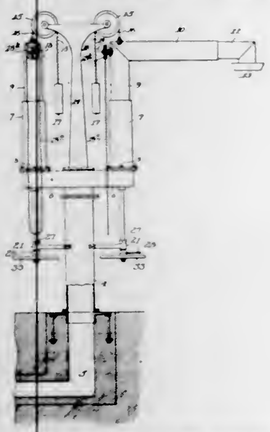
the reciprocation of the tool, and connections coordinated with the movement of said conveyor for reciprocating said carrier on the frame and said tool in the carrier.

1,478,262. TRANSFORMER AND APPLICATION OF THE SAME TO HEATING. HARLAN E. SNODGRASS, Summit, and THOMAS M. HUNTER, Newark, N. J., assignors, by mesne assignments, to Newark Tube Company, Newark, N. J., a Corporation of New Jersey. Filed Feb. 18, 1921. Serial No. 446,050. 26 Claims. (Cl. 219—6.)



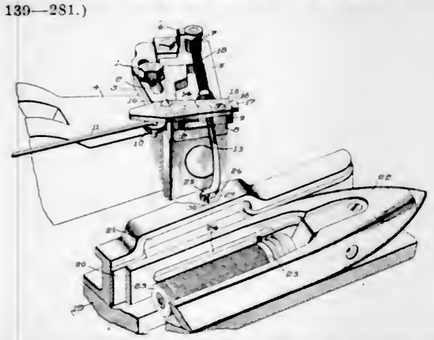
1. A heavy current transformer for heating and the like, comprising a closed core, a primary surrounding said core, and a secondary comprising conductors surrounding the core and symmetrically arranged with reference to the axis of said transformer, and constructed and arranged to produce a substantially uniform distribution of current in said secondary.

1,478,263. SMOKEJACK. BARTON S. SNOW, Batavia, Ill., assignor to T. W. Snow Construction Co., Chicago, Ill., a Corporation of Illinois. Filed Apr. 5, 1923. Serial No. 630,008. 20 Claims. (Cl. 104—52.)



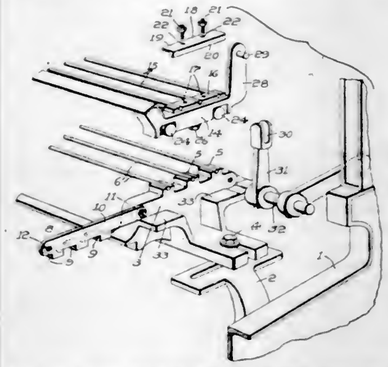
1. A smoke jack comprising a base containing a smoke passage, and a laterally-extending tubular portion forming a smoke conduit adapted at its outer end to receive the discharge from the locomotive stack positioned adjacent thereto, said tubular portion being supported on said base and communicating with the smoke passage therein and constructed and arranged to be swung on said base into different angular positions in a plane at an angle to the vertical.

1,478,264. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Dec. 6, 1922. Serial No. 605,167. 12 Claims. (Cl. 139—281.)



1. In a feeler mechanism for looms, the combination of a feeler mounted for movement towards and from the front of the loom and in a direction longitudinally of the shuttle, a feeler tip pivotally mounted on the feeler for swinging movement in a substantially vertical plane and held from such swinging movement by engagement with the filling until substantial exhaustion thereof on a detecting beat and thereupon caused to swing in such vertical plane by movement of the feeler in a direction longitudinally of the shuttle.

1,478,265. WARP-STOP MECHANISM FOR LOOMS. EDWARD S. STIMPSON, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Nov. 17, 1922. Serial No. 601,624. 12 Claims. (Cl. 139—360.)

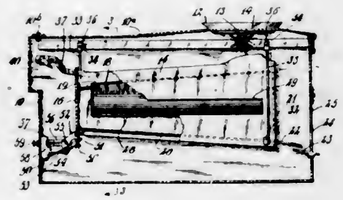


1. A warp stop mechanism for looms, comprising, in combination, a series of drop wires, guides for directing the movement of the drop wires, a feeler carrier having a feeler for cooperating with a drop wire when the latter is released by a broken or too slack warp thread, antifriction rollers mounted on the feeler carrier and interposed between the feeler carrier and its support, and an actuator for moving the feeler carrier and feeler.

9. In a warp stop mechanism for looms, the combination of a series of drop wires normally supported by the warp threads during weaving, open supports at each

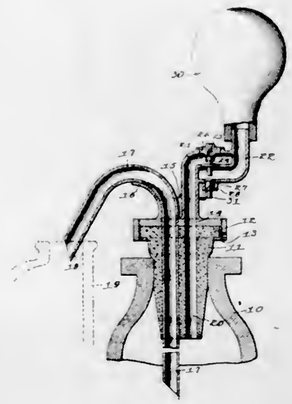
side of the loom, drop wire guides substantially circular in cross-section and having end portions sustained by the said open supports, a cap piece having a portion which overlies a supported end of the drop wire guides to retain them in the open supports and another portion which covers the ends of the drop wire guides to prevent endwise movement, and means for securing the cap piece in operative position on the support.

1,478,266. ASH SIFTER. JACOB STOREY, Berlin, N. H. Filed Mar. 8, 1923. Serial No. 623,753. 4 Claims. (Cl. 83—60.)



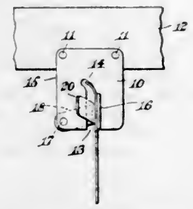
1. A sifter comprising a casing, a screening element suspended therein, said screening element consisting of upper and lower screens inclining in opposite directions, and means for reciprocating said screening element, and a transversely inclined discharge partition interposed between the upper and lower screens, said screening element including a box-like structure having discharge openings respectively in one side and end thereof, for the purpose specified.

1,478,267. PUMP. WILLIAM M. THOMPSON, Meadville, Pa. Filed July 6, 1921. Serial No. 482,733. 6 Claims. (Cl. 215—4.)



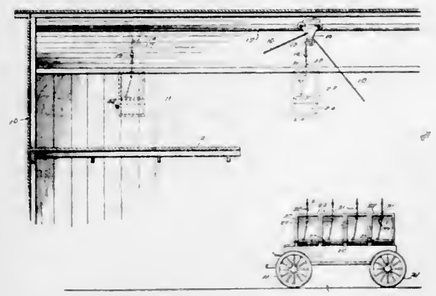
1. A pump for liquid containers, comprising a plug member for closing the container opening, an outlet duct extending through the plug, an inlet duct for the delivery of gas pressure, above atmospheric pressure, to the container, a means for forcing gas into the inlet duct, a check valve between the gas forcing means and the inlet duct and hand controlled means for releasing the check valve at will.

1,478,268. CLAMP. ALFRED J. THOMSON, Canton, Mass. Filed June 18, 1923. Serial No. 646,060. 3 Claims. (Cl. 24—248.)



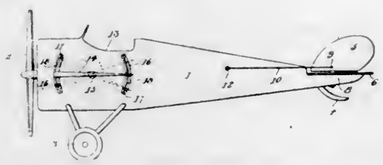
1. A plate having an open-ended slot in its lower end provided at one edge with a flange extending from one face of said plate: and a lever pivoted to the opposite face of said plate and having a flat-faced extension projecting through said slot and adapted to coact with said flange.

1,478,269. GRAIN-HANDLING APPARATUS. JOHN R. D. TRAVIS, Clio, Iowa. Filed Dec. 30, 1922. Serial No. 610,028. 2 Claims. (Cl. 214—38.)



1. In grain handling apparatus, the combination with a wagon having a body, of a plurality of boxes having lower contracted portions removably mounted within said body, a bail pivotally connected with each box upon opposite sides thereof below its center of gravity and to one side of the longitudinal center of the box, stops carried by the sides of the box to engage with the bail and arranged near the longitudinal center of the box, hoisting and conveying means to engage with the bail, and a trip element arranged in the path of travel of the box beneath the bail.

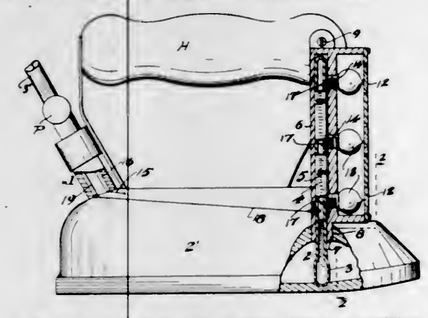
1,478,270. AEROPLANE. JOHN TRUNKO, Arden, W. Va. Filed May 8, 1923. Serial No. 637,511. 1 Claim. (Cl. 244—29.)



In an aeroplane of the type described, a fuselage, a rudder at the rear end thereof, side planes journaled at their ends in the fuselage, guide means for the front and rear inner corner edges of each plane, means for simultaneously shifting the planes on their bearings, said guide means including arcuate slotted members

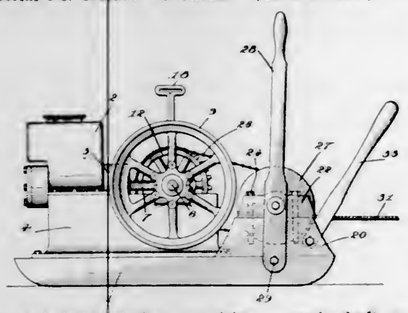
secured to the outer side of the fuselage with the arc thereof concentric with the pivotal mounting of the planes, guide pins carried by the inner corner edges of the planes extending through the slots of the guides, said shifting means including a shaft journaled transversely within the fuselage, brackets secured inwardly of the fuselage adjacent the ends of the shaft, a vertical shaft journaled in each bracket, gear connections between the opposite ends of said transverse shaft and the lower ends of the vertical shafts, gear connections between the upper ends of the vertical shafts and bearings for the planes and manually operable means for the transverse shaft.

1,478,271. HEAT INDICATOR FOR ELECTRIC IRONS. ADELE WEISS, Pasadena, Calif. Filed Mar. 16, 1920. Serial No. 366,337. 2 Claims. (Cl. 177—311.)



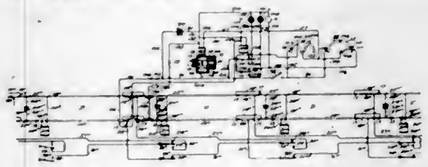
1. A heat indicator for electric irons comprising a housing, a tube arranged in said housing and having lateral contact pieces, the lower portion of which tube extends downwardly into the iron to which the device is applied, said tube containing a current conducting liquid that is expansible under heat, a contact in the lower portion of the tube which contact is connected to the heating circuit of the iron, said housing having grounded lamp sockets, and a plurality of electric lamps arranged within the sockets at different elevations along the tube therein and one of the terminals of each lamp making contact with the said pieces whereby each lamp circuit is closed as the heat responsive liquid rises in said tube.

1,478,272. HOISTING DEVICE. AIMÉ BOULANGER, Normandin, Quebec, Canada. Filed Jan. 20, 1923. Serial No. 613,972. 8 Claims. (Cl. 254—187.)



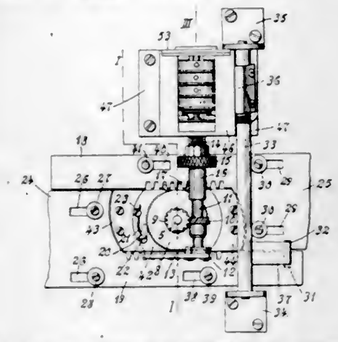
1. A hoisting device comprising a crank shaft, a fly wheel at each end thereof, one of said ends being extended, a driving pulley slidably mounted on said end and having a clutch engagement therewith, a counter shaft operatively connected with said driving pulley, a drum mounted on said shaft, an auxiliary pulley mounted on said shaft in alignment with one of said fly wheels and adapted for engagement therewith.

1,478,273. TRAIN-CONTROL SYSTEM. IRA A. CALL and JOSEPH C. CALL, New York, N. Y., assignors, by mesne assignments, to The Ideal Automatic Train Control Company, Dover, N. J., a Corporation of New Jersey. Filed July 26, 1922. Serial No. 577,540. 29 Claims. (Cl. 246—48.)



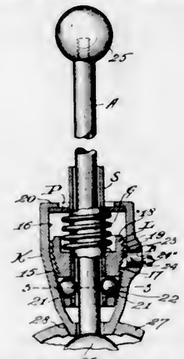
18. In a system of train control, a trackway divided into a plurality of block sections, an insulated track section in each block and constituting an indication point, roadside circuits in electrical connection with each of said insulated track sections, a vehicle for travel on said trackway, electrically operated controlling apparatus for the vehicle and carried thereby, a source of power carried by the vehicle and adapted to operate said electrically operated controlling apparatus, a shunt circuit associated with the source of power and in circuit therewith during travel of the vehicle through a block section to reduce the volume of current flowing from the source of power through the circuit of the electrically operated controlling apparatus, and means for isolating said shunt circuit with respect to the source of power as the vehicle passes over an indication point to permit of the full capacity of the source of power passing from the vehicle through the insulated track sections and roadside circuits to the electrically operated controlling apparatus carried by the vehicle to prevent an operation of the vehicle controlling apparatus and to restore said vehicle controlling apparatus if an operation thereof has been had.

1,478,274. SAFETY LOCK. ANTONIO SOLER CAPDEVILA, Barcelona, Spain. Filed Aug. 8, 1921. Serial No. 490,741. 5 Claims. (Cl. 70—53.)



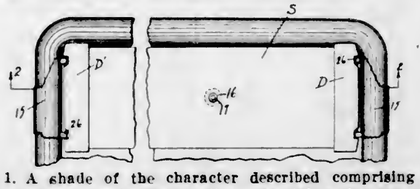
1. A keyless safety lock including in combination a permutation safety mechanism composed of a housing, a shaft journalled therein, a plurality of coacting discs mounted on the shaft and each provided in the periphery thereof with a recess, slidably mounted locking bolts provided with recesses adapted to be arranged in alignment when the bolts are in locked position, a spring controlled rotatable shaft, a pawl on the spring controlled shaft arranged in yielding relation with the peripheries of the discs, another pawl carried by the shaft and engaging the recesses in the bolt, a manually operable rotatable shaft in geared connection with the shaft of the safety mechanism for operating the discs to arrange the recesses therein in alignment and permit of the engagement of one of the pawls with the recesses and the release of the other pawl from the bolts, a manually operable tubular shaft arranged about the other manually operable shaft and operably connected with the bolts for sliding the bolts subsequent to the release thereof, substantially as and for the purposes set forth.

1,478,275. AUTOMOBILE LOCK. WRIGHT CONKLIN and WALTER WISSINGER, Los Angeles, Calif. Filed Mar. 1, 1922. Serial No. 540,266. 8 Claims. (Cl. 70—128.)



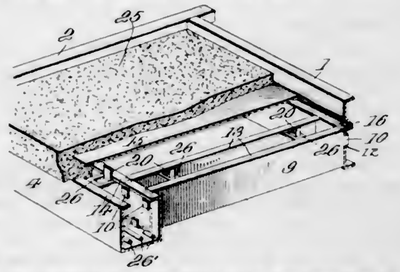
4. A lock of the character described comprising a casing adapted for sliding movement upon a lever, a friction clutch within the casing adapted to grip said lever, means for urging the clutch to gripping position, and means for locking the clutch in gripping position.

1,478,276. NIGHT AND DAY AUTO SHADE. JOSEPH W. FOLEY, Los Angeles, Calif. Filed Sept. 8, 1922. Serial No. 586,826. 17 Claims. (Cl. 296—97.)



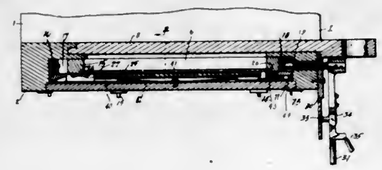
1. A shade of the character described comprising a translucent member of flexible material and attaching means at the ends of the member, one of said attaching means comprising elements hingedly connected to each other to occupy open and closed positions, means on one of the elements for detachably securing the translucent member between the elements, and a resilient member carried by one of the elements and to which a clamping device is adapted to be connected.

1,478,277. STAIR PLATFORM AND LANDING. AKOS J. HALL, Cleveland, Ohio. Filed Feb. 13, 1922. Serial No. 536,266. 7 Claims. (Cl. 189—43.)



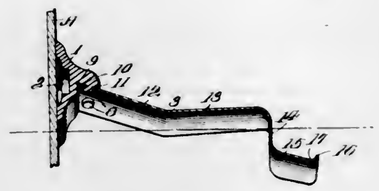
1. In a metal stair platform, the combination of a rear and side beams having longitudinal grooves therein, a cross beam located between the side beams, and a metal platform received in and supported by the grooves of the rear and side beams.

1,478,278. APPARATUS FOR MAKING MOVING PORTRAITS. JOHN HARLOW, Oceanpark, Calif., assignor of one-half to Herman Paine, Los Angeles, Calif. Filed Nov. 16, 1920. Serial No. 424,404. 3 Claims. (Cl. 95—36.)



1. A multi-exposure film plate holder, comprising a frame having a forward opening and an enlarged rear opening forming a recess, an aperture casing in said recess, a screen frame having a multi-exposure screen, said frame being longitudinally slidably mounted in and normally held by yielding means in one end of said aperture, means for longitudinally shifting said screen frame, an apertured film plate frame behind said screen and fixed with relation to said holder and adapted to hold a film plate, and a hinged door for said holder and having means for pressing said film plate to said screen.

1,478,279. ATTACHABLE RAIN SHIELD FOR AUTOMOBILES. GEORGE CALVIN HENNE, Herrin, Ill. Filed June 21, 1922. Serial No. 568,887. 4 Claims. (Cl. 296—97.)

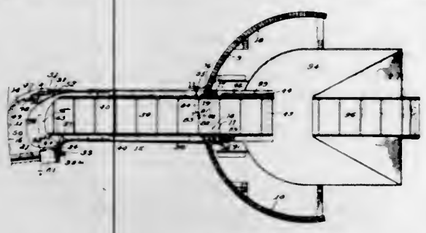


4. A combined rain and vision shield of the character described, comprising a shield portion and means for attaching it to a wind shield, the shield portion provided with an approximately horizontal extending portion having at its end a vertically downwardly turned colored portion to form the shield vision, the vertical portion of the shield terminating in a forwardly projecting portion, whereby the forwardly projecting portion forms a shield whereby the shield is so constructed as to protect that portion of the wind shield which is in a line with the vertical vision portion of the shield, for the purpose described.

1,478,280. COAL CUTTING AND LOADING MACHINE. FRANCIS KEITH HOLMESTED, Charleston, W. Va. Filed Jan. 3, 1920. Serial No. 349,210. 31 Claims. (Cl. 262—5.)

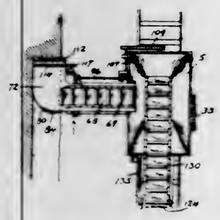
1. A machine of the class specified, comprising enclosing receiving means having an open cutter mounted directly thereon and forming a part thereof, the cutter and receiving means being movably operable as a unit in an arcuate path and also vertically adjustable to different elevations for simultaneously cutting and gathering and carrying material from the face of a vein, the material being passed into the cutter and receiving means which conjointly operate to serve as a carrying means for the cut

material, the material entering the cutter and receiving means in close columnar accumulations, means for breaking the columnar accumulations after they have passed



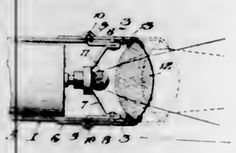
into the cutter and receiving means, and means for conveying the material away from the cutter and receiving means.

1,478,281. COAL CUTTING AND LOADING MACHINE. FRANCIS K. HOLMESTED, Charleston, W. Va. Filed Oct. 3, 1922. Serial No. 592,057. 21 Claims. (Cl. 262—19.)



15. A machine of the class specified, comprising supporting means, a receiver having cutting mechanism and associated with said supporting means, means for longitudinally projecting the material carrying receiver outwardly from or retracting it in relation to the supporting means to cut material at different depths without resetting the supporting means relatively to the material to be cut, and means for moving the receiver and supporting means relatively to the material to be cut, the adjustment of the receiver relatively to the supporting means being effected while the latter is at rest.

1,478,282. FLASH LIGHT. ROBERT L. HUNTER, Norfolk, Va. Filed June 28, 1922. Serial No. 571,435. 3 Claims. (Cl. 240—8.5.)



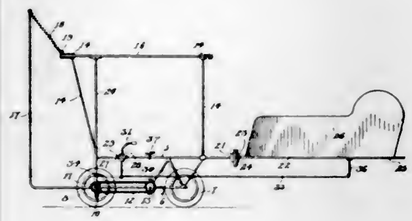
1. In a flashlight, means for holding an electric light bulb, said means consisting of a bracket, the ends of said bracket acting as a guide for a cap on said flashlight.

1,478,283. DIRIGIBLE-LAMP STRUCTURE FOR AUTOMOBILES. GEORGE LAUGHRIN, Chava, Ill. Filed Oct. 24, 1921. Serial No. 509,845. 1 Claim. (Cl. 240—62.)

In a dirigible lamp headlight, the combination of a fender iron with a knuckle thereon, a forwardly projecting arm secured rigidly to said knuckle, a bracket pivoted to the front end of said arm and projecting forwardly therefrom, a head light mounted in the front end of said bracket, a steering rod, an arm secured to and projecting forward from the steering rod and having an opening through its forward portion, and a connecting rod passing freely through said arm and extending upwardly and forwardly therefrom, the upper portion of said rod extending forwardly, then upwardly and then rearwardly and overhanging the adjacent forwardly extending portion of the rod and secured rigidly to the under side of the pivoted bracket and to the headlight mounted therein.



1,478,284. AEROPLANE. TOMMASO LONUZZO, Bristol, Conn. Filed Apr. 24, 1923. Serial No. 634,256. 1 Claim. (Cl. 244—20.)

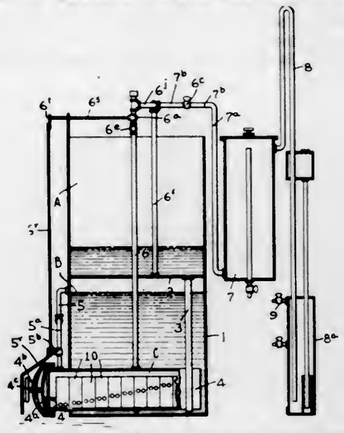


In a device of the class described, a frame bar, ground engaging wheels associated therewith, planes pivotally associated with said bar, means for actuating said planes and wheels in unison, steering blades universally connected to said bar, a steering post universally connected to said bar, and means connecting said post with said steering blades.

1,478,285. ACETYLENE-GAS GENERATOR. PAUL HERMAN LOTHER and J. LOUIS GRISWOLD, Columbus, Kans.; said Griswold assignor of one-half of his right to said Lother. Filed July 3, 1922. Serial No. 572,505. 6 Claims. (Cl. 48—31.)

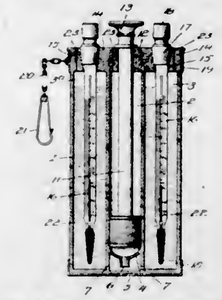
1. In a gas generating apparatus of the character specified; a surplus gas chamber; a generating chamber extending within said surplus gas chamber, and having a removable closure; a gas outlet pipe for the generating chamber; a valve in said outlet pipe; a gas return pipe connected to the gas outlet pipe in front of said valve for returning the gas to the surplus gas chamber; a water pipe from the gas chamber to the generating chamber; a

valve in said pipe; operable connections between the valve in the gas outlet pipe and the valve in the said



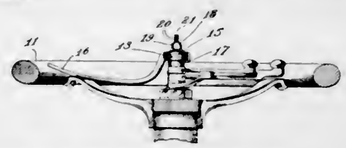
water pipe, whereby when one valve is opened the other is opened, and when one valve is closed the other is closed, substantially as described.

1,478,286. THERMOMETER CASE. ASA C. D. MCCLELLAN, Memphis, Tenn. Filed Feb. 24, 1922. Serial No. 538,899. 4 Claims. (Cl. 206—165.)



1. Means for carrying and sterilizing clinical thermometers, comprising a glass case with a plurality of elongated compartments arranged contiguously and intercommunicating and including a reciprocatory syringe-like piston arranged in one of the compartments with the piston compartment containing a piston-rod, accessible exterior to the compartment containing it, and the compartments being also provided with removable stoppers for permitting access to the respective compartments and the sealing of the compartments against leaking, certain of said stoppers constituting thermometer removing elements.

1,478,287. AUTOMOBILE HORN-BUTTON EXTENSION. ROBERT E. MCGAHEY, Alexandria, Va. Filed Jan. 6, 1923. Serial No. 611,052. 3 Claims. (Cl. 74—39.)



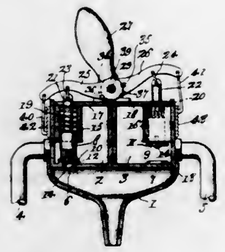
1. A horn button extension comprising a cup proportioned to embrace and cover a horn button, means to secure the cup to the button, and an arm extending from the cup.

1,478,288. GAUGE FOR INDICATING THE DRAFT OF SHIPS. JOSEPH MACGREGOR, North Shields, England. Filed Oct. 16, 1922. Serial No. 595,011. 8 Claims. (Cl. 73—5.)



1. A draft gauge of the kind referred to, comprising a hollow body adapted to be water immersed, means for suspending same from a ship, a valve permitting entry of water into the body when immersed, means for holding the valve open and means controlled from the ship for releasing the holding means and thereby permitting the valve to close and imprison water in the body, substantially as described.

1,478,289. DOUBLE-ACTING FAUCET. JOHN JOSEPH MAHONEY, Taunton, Mass. Filed Aug. 2, 1921. Serial No. 489,180. 3 Claims. (Cl. 277—18.)

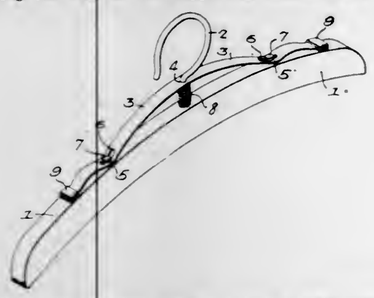


1. In a faucet, adjacent water boxes separately in communication with sources of hot and cold water supplies, a nozzle having controlled communication with the water boxes, reciprocating valves in the water boxes, spring means for normally closing the valves, arms connected to individually raise the valves, means for pivoting said arms in common for individual rocking movement, a handle intermediate the arms having means thereon and in conjunction with the arms for raising one or the other of the arms accordingly as the handle is swung in the one or the other direction, and catches carried by the outer ends of the arms for holding the valves in a desired open position, substantially as described.

1,478,290. GARMENT HANGER. NONA J. MARKS, Philadelphia, Pa. Filed Mar. 16, 1923. Serial No. 625,517. 7 Claims. (Cl. 211—13.)

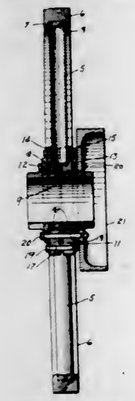
1. In a hanger, the combination with an article-supporting member, of resilient article-retaining means

formed as a bow with extended ends, and means for securing the bow on the supporting member with said



extended ends normally bearing against said member so that pressure on the central bow portion will raise the outlying extended ends from the supporting member.

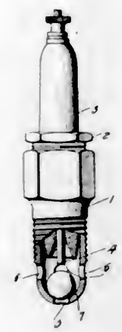
1,478,291. METALLIC VEHICLE WHEEL. WILLIAM S. MASON, Norristown, Pa., assignor of one-third to Charles B. Harding, Lansdowne, Pa., and one-third to Henry Fredericks, Philadelphia, Pa. Filed Dec. 18, 1920. Serial No. 431,053. 1 Claim. (Cl. 301—84.)



A wheel of the class described comprising a felloe, spokes, and a hub structure composed of a cylindrical bearing sleeve provided with an outwardly extending flange having a plurality of circumferentially spaced axially extending bolt holes; a pair of separable complementary flat spoke clamping discs, provided with central axial holes receiving said sleeve, said discs being also provided upon their complementary faces with a plurality of radially extending semi-cylindrical recesses constituting spoke end receiving sockets, said discs also having a set of axially extending bolt holes adjacent their inner circumference adapted to register with the holes in said flange, and a second set of axially extending bolt holes adjacent their outer circumferences intermediate adjacent sockets; a spacing annulus mounted upon said sleeve abutting one of said discs, provided with bolt holes adapted to align with said flange bolt holes; an annular member also mounted on said sleeve abutting said spacing annulus and provided with holes registering with the holes therein; and bolts passing through all of said holes and securing all of said members together.

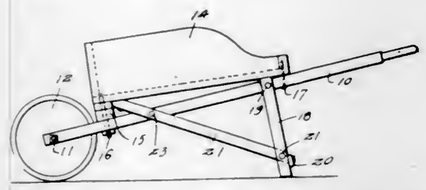
1,478,292. SPARK PLUG. VOLLIE F. MULKEY, Platte City, Mo. Filed June 9, 1921. Serial No. 476,265. 1 Claim. (Cl. 123—169.)

A spark plug having its shell continued below the lower end of its positive electrode and rounded and closed, a relatively large ball loose in said closed end and forming the ground terminal of the spark plug, said closed end having a central opening in its lower wall and having equally spaced openings in its side wall, all of said openings being round and having a continued bore and being of less diameter than the diameter of the ball, the openings in the side wall having their upper edges



substantially in the plane of the lower end of the positive electrode and having their central axis above the central axis of the ball when the ball is in normal position, whereby the ball is spaced from the positive electrode and the openings in the side wall are in alignment with the point where the spark will occur.

1,478,293. WHEELBARROW. GUSTAF A. PARSONS, St. Paul, Minn. Filed May 11, 1922. Serial No. 560,125. 1 Claim. (Cl. 280—52.)

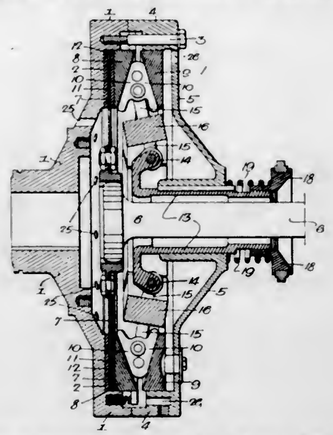


A wheelbarrow having supporting bars, a ground wheel journaled thereon, said supporting bars diverging rearwardly from said ground wheel to space the rear ends of the bars apart so that they will constitute handles, a bar spanning said supporting bars in the rear of and relatively close to said wheel, a body resting on said transverse bar adjacent its forward end, said body adjacent its rear end being in contact with the supporting bars, legs depending from said body having their upper ends in abutment with the under surface of the body, said legs being secured to said supporting bars, brace bars secured to the supporting bars at a distance from the legs and intermediate the legs and said transverse bar, said brace bars being secured to the legs adjacent their lower ends, and said brace bars extending above the supporting bars and at their adjacent ends being in abutting contact with the body and said transverse bar.

1,478,294. POWER-TRANSMISSION APPARATUS. THOMAS S. PATTERSON, Rosemont, Pa. Filed Feb. 6, 1920. Serial No. 356,573. 3 Claims. (Cl. 192—105.)

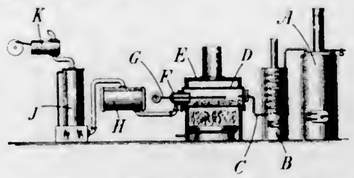
2. The combination in a clutch of a driving member including a fly wheel casing; a driven member extending into said casing; and means within the casing for operatively connecting the latter with the driven member, said means including two spaced plates and weights rotatably connected with the casing, said weights being

mounted to force said plates apart under the action of centrifugal force and being connected to cause automatic



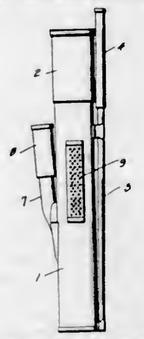
and gradual connection of the driving and driven members as the fly wheel is accelerated; with a spring opposing operation of said weights.

1,478,295. TREATMENT OF COMPLEX SULPHIDE ORES. WALTER GEORGE PERKINS, London, England, assignor, by mesne assignments, to Metals Production Company of North America Incorporated, New York, N. Y. Filed Oct. 6, 1920. Serial No. 415,120. 7 Claims. (Cl. 75—60.)



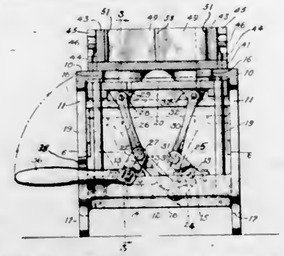
1. A process for the treatment of metallic sulphide ores containing iron pyrites which consists in heating the ore, ground to suitable size, in an atmosphere of steam at such a temperature and for such a time that the surfaces only of the iron pyrites particles are affected, so that these particles are rendered paramagnetic to facilitate their magnetic separation from other minerals present.

1,478,296. MINER'S KIT. WILLIAM K. PETERS and ALEX FOSTER, Freeman, W. Va. Filed Feb. 2, 1922. Serial No. 533,534. 3 Claims. (Cl. 206—38.)



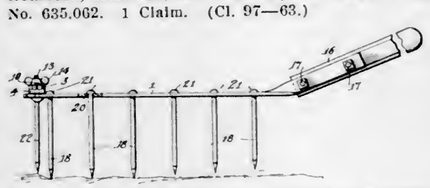
1. A miner's kit of the character and for the purpose specified, comprising a main compartment, other compartments at the sides of the main compartment and attached thereto, the several compartments including movable covers and the said other compartments extending upwardly and outwardly with respect to the main compartments to provide clearance for movement of the covers.

1,478,297. CEMENT-BLOCK MACHINE. HENRY C. RIEGE, Kansas City, Mo. Filed Mar. 10, 1922. Serial No. 542,803. 2 Claims. (Cl. 25—41.)



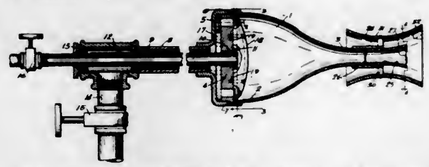
2. In an apparatus of the class described a supporting frame, guide members supported by said frame, a follower member adapted to support core elements and movable on said guide members, shafts in spaced relation and each carrying a plurality of crank arms, connecting means between one of the crank arms of each shaft and the follower member, connecting means between the other crank arms, and means for rotating one of said shafts.

1,478,298. HAND CULTIVATING TOOL. HENRY H. RUEDIGER, Hermann, Mo. Filed Apr. 27, 1923. Serial No. 635,062. 1 Claim. (Cl. 97—63.)



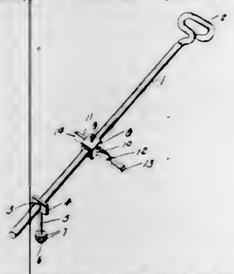
A hand cultivator comprising a skeleton body portion formed of a pair of side bars and an end bar at the forward end of the side bars and formed of a pair of overlapping section, means for adjustably connecting said sections together to provide for increasing and decreasing the width of said body portions, means for connecting the ends of said sections to the forward ends of said side bars, a handle secured between the rear ends of said side bars, and teeth depending from each of the side bars and from one of the said sections.

1,478,299. OIL BURNER. VERNON W. RUSSELL and JESSE T. KYLE, Brea, and JULIAN A. CAMPBELL, Long Beach, Calif. Filed Mar. 15, 1921. Serial No. 452,517. 6 Claims. (Cl. 158—75.)



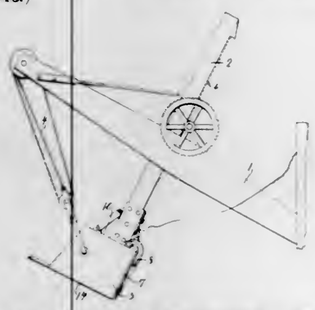
1. A burner comprising a fuel chamber, a fuel supply conduit, a separate supply conduit for another fluid, and a fixed baffle in said chamber over said supply conduits, said baffle having a concave lower surface and being spaced beyond the ends of said conduits and arranged to cause whirling discharge of said fuel to said chamber.

1,478,300. BAND-WHEEL-TURNING DEVICE. RICHARD W. SAGE, Augusta, Kans. Filed June 2, 1921. Serial No. 474,300. 1 Claim. (Cl. 142—56.)



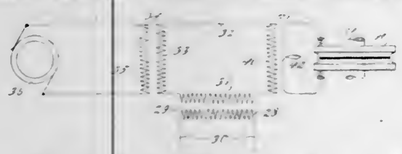
A turning appliance consisting of an elongated rod, a support, means to mount the rod with respect to the support for axial turning and for sliding movement during operation, a tool bearing on said rod, a tool carried by said tool bearing and extending transversely of the rod and the support, said tool bearing engageable with the support whereby the tool will be kept in a position substantially parallel to the surface of the support with one end operatively engaging the work.

1,478,301. BUCKET FOR STEAM SHOVELS OR THE LIKE. WILLIAM C. SHEA, San Anselmo, Calif. Filed Dec. 6, 1922. Serial No. 605,215. 8 Claims. (Cl. 214—146.)



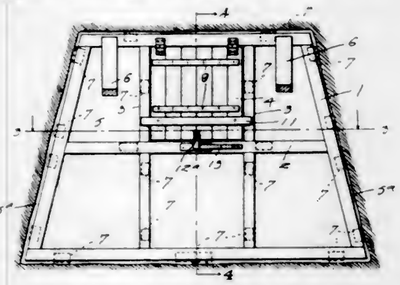
1. In a scoop bucket for a steam shovel, a hinged drop door tending to close by gravity when the bucket reaches an initial position having a latch bolt slidably associated therewith, a latch bar associated with the bucket adapted to receive the bolt, a slanting face on the bolt adapted to ride on the bar so as to be pushed upward when the door closes and to thereafter drop into engagement with the bar and means for locking said engagement comprising a second bar pivoted to drop into alinement with the latch bar for preventing its withdrawal.

1,478,302. METHOD OF AND APPARATUS FOR ELECTRIC WELDING. HARLAN E. SNODGRASS, Summit, and THOMAS M. HUNTER, Newark, N. J., assignors, by mesne assignments, to Newark Tube Company, Newark, N. J., a Corporation of New Jersey. Filed Mar. 29, 1922. Serial No. 547,635. 17 Claims. (Cl. 219—4.)



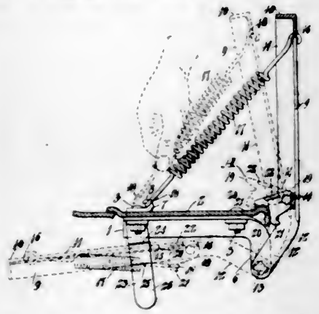
10. The method of welding a metallic seam which consists in passing across the seam successive pulsations of electric power substantially contant throughout the period of each pulsation.

1,478,303. MINE AIR STOP. STEPHEN H. SNYDER, West Pittston, Pa. Filed Apr. 5, 1922. Serial No. 549,947. 3 Claims. (Cl. 98—28.)



1. A mine air stop having a frame, a textile covering for the frame, cleats securing said textile covering to the frame, said textile covering having a portion projecting beyond the frame, said portion being disposed in contact with the outer edges of the cleats to insure positioning of said portion by the cleats and a close joint between the frame and the wall of the mine, said stop having an opening therethrough, and a pressure-operable relief door normally closing said opening.

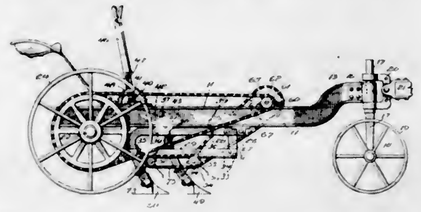
1,478,304. LUGGAGE CARRIER. RICHARD C. STEWART, Covington, Ky. Filed Feb. 25, 1922. Serial No. 539,106. 7 Claims. (Cl. 224—29.)



2. In a luggage-carrier, a luggage-retaining element having a pivot at its lower edge on which it is mounted to swing upright along the edge of a vehicle luggage-receiving part, engaging means over near the opposite edge of said vehicle part, and a tension spring connected to an upper part of said luggage-retaining element near one end thereof, to be connected with said engaging means across said vehicle part, for holding said element upright with a part near said pivot engaged tightly against the vehicle part, to prevent rattling of the parts, and forming luggage-retaining means at said end of said element.

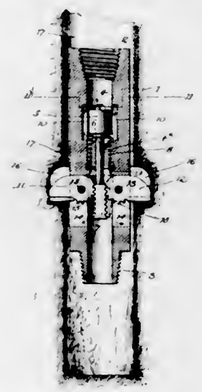
1,478,305. NOXIOUS-WEED ERADICATOR AND SOIL PULVERIZER. FRED STROBACH, Austin, Minn. Filed June 16, 1922. Serial No. 568,802. 2 Claims. (Cl. 97—4.)

1. A machine for the purpose set forth comprising a portable frame, a rocking element journalled therein, two sets of parallel beam members secured to and projecting rearwardly from said element, one of said sets having its members of greater length and of a greater number than the members of the other set and alternately disposed with respect thereto, said beam members terminating in depending forwardly projecting standards providing a forward and a rear set of standards, a ground working element secured to each standard, supporting bars connected to said rocking element and having their rear terminal portions secured to the outer standards of the rear set of standards, a pair of rotatable shafts suspended from said bars and each arranged forwardly of and in proximity to a set of standards, a series of pairs of pulverizing elements carried by each shaft, the pulverizing elements of each pair ar-



ranged at opposite sides of and in proximity to a standard, a coupling bar secured to each set of beams and to the supporting bars, operating means for said shafts, and means supported by the frame and connected to that coupling bar secured to the set of long beams for adjusting the position of said ground working elements.

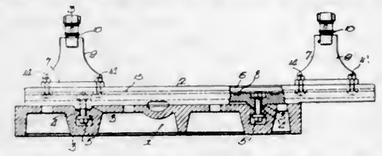
1,478,306. UNDERREAMER. MICHAEL M. SWEETMAN, Kansas City, Mo. Filed Oct. 18, 1920. Serial No. 417,573. 1 Claim. (Cl. 255—76.)



In an underreamer, the combination of a mandrel provided with a cylinder in its upper portion and with a pair of oppositely disposed slots formed in the side wall thereof adjacent its lower end; a piston mounted in the cylinder, said cylinder having by-pass ports formed in the body of the mandrel to permit passage of water below the piston and outwardly through the body of the mandrel when the piston is forced downwardly by the water pressure; a bit pivotally mounted in each of the slots aforesaid; a gear formed upon each of said bits; a double face rack cooperating with the gears of the bits; a piston rod extending from the rack and connected to the piston; and a spring located beneath the piston and serving to elevate the same when the water pressure is withdrawn therefrom.

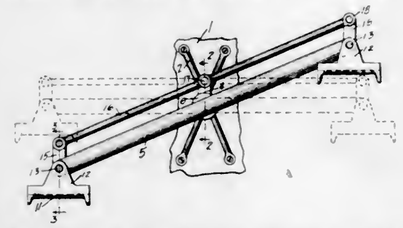
1,478,307. JACK STRUCTURE. JOHN P. SYKES, Wallingford, and HARMON E. STOVER, Philadelphia, Pa., assignors to The Baldwin Locomotive Works, Philadelphia Pa., a Corporation of Pennsylvania. Filed Apr. 6, 1922. Serial No. 550,014. 3 Claims. (Cl. 254—89.)

2. The combination of a base plate; a longitudinal groove therein; a jack having a projecting portion extending into the groove; and a screw on the jack, the base plate having a series of pockets in the base of the



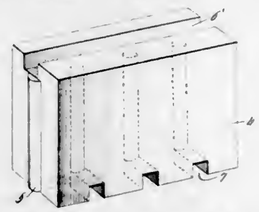
groove to receive a pinch bar to adjust the jack on the base plate.

1,478,308. RUDDER BAR. OTTO W. TIMM, Venice, Calif. Filed Jan. 11, 1921. Serial No. 436,562. Renewed Oct. 24, 1923. 2 Claims. (Cl. 244—29.)



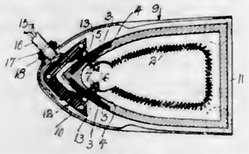
2. A device of the character described comprising a bearing support, a rudder bar fulcrumed on the support, a projecting lug formed on the support, a link fulcrumed on the lug, pedals arranged at the ends of the bar and each including spaced ears pivotally associated with the bar, and a lug constituting an extension of one of the ears and projecting rearwardly of the bar, and pivotal connections between the ends of the link and the lugs of said pedals.

1,478,309. BAFFLE BRICK. FRANK H. WAITE, Long Island City, N. Y. Filed July 8, 1921. Serial No. 483,220. 2 Claims. (Cl. 110—73.)



1. In a device of the class described, a brick comprising a rectangular body having a longitudinally extending channel in one longitudinal face thereof and a transverse channel in its opposite face, and an internal conduit connecting said channels.

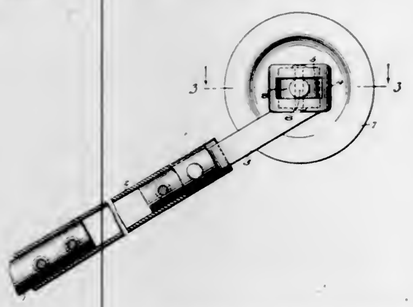
1,478,310. ELECTRIC IRON AND STAND. EARL W. WELLS, South Brownsville, Pa. Filed Mar. 18, 1921. Serial No. 453,272. 7 Claims. (Cl. 219—23.)



2. In combination with an iron including a resistance element, said iron tapering forwardly at its forward end, contact plates carried by the iron at opposite sides of the forward portion thereof, said plates being electrically

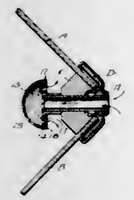
insulated from the iron and connected to the ends of the resistance element, a stand adapted for reception of the iron, resilient contact members carried by the stand at the forward ends thereof and converging forwardly of the stand, and means for connecting said members to the opposite sides of an electric circuit.

1,478,311. TROLLEY. JOHN T. WELSH, Schenectady, N. Y. Filed July 19, 1922. Serial No. 576,005. 3 Claims. (Cl. 191—59.)



1. A device of the character described, comprising a tubular spring metal tip adapted to be secured to a trolley pole, a fork secured in the outer end of the tubular spring tip, and a trolley wheel mounted in the fork and having oscillatory movement therein.

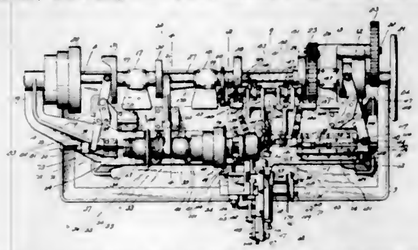
1,478,312. VENTILATOR. AARON WENGER, Bayonne, N. J. Filed Apr. 7, 1922. Serial No. 550,432. 4 Claims. (Cl. 98—32.)



1. The combination with a structure, which includes glass panels and means for receiving and positioning the meeting edges of said panels relative to each other, of an element for clamping said means in operative relation, said element having an opening therethrough to constitute means for ventilating the interior of said structure, means carried by the inner end of said element for distributing the ventilation over said glass panels to prevent the collection and formation of obscuring agencies thereon, said element comprising a tubular member having an outer headed extremity and an inner exteriorly threaded extremity, and a member threadedly engaged with the inner extremity for coacting engagement with the receiving and positioning means for the panels.

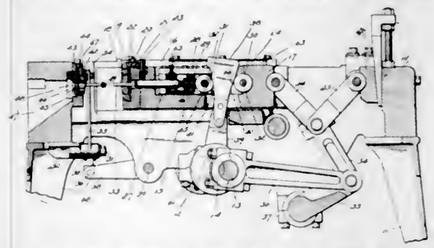
1,478,313. SHAVING MACHINE. RICHARD LESTER WILCOX, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed July 31, 1920. Serial No. 400,483. 23 Claims. (Cl. 10—8.)

1. In a machine of the character described, the combination with automatic means for holding a blank having no movement parallel with the axis thereof, while gripping said blank; means encircling said automatic means, actuating the latter, having movement substan-



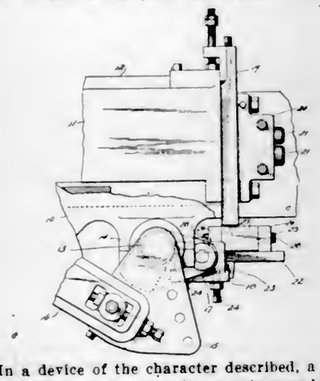
tially parallel with said axis and means for automatically applying a cutter to that portion of the blank projecting beyond the said holding means.

1,478,314. TRIMMING MECHANISM. RICHARD LESTER WILCOX, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed July 1, 1921. Serial No. 481,848. 19 Claims. (Cl. 10—20.)



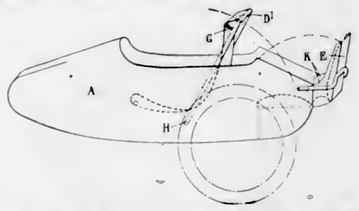
1. In a mechanism of the character described, a pair of tools relatively movable toward and away from each other, a pusher rod for forcing the blank through one of the tools, toggle mechanism for actuating one of said tools, and cam mechanism for actuating said pusher rod, whereby the relative speed of movement of said pusher rod is definitely controlled.

1,478,315. HEADER MECHANISM. RICHARD LESTER WILCOX, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury Conn., a Corporation of Connecticut. Filed July 1, 1921. Serial No. 481,849. 11 Claims. (Cl. 10—26.)



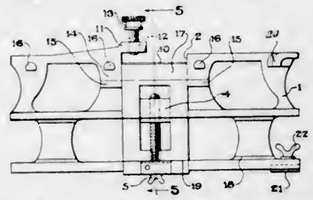
2. In a device of the character described, a body member; a shaft journaled therein; a gate movably mounted in said body; a punch slide on said gate; and flexible means between said shaft and punch slide for imparting movement to said punch slide upon said gate irrespective of the angle between the axis of said shaft and said punch slide.

1,478,316. SIDE-CAR BODY. BENJAMIN GRAHAM WOOD, London, England. Filed Dec. 8, 1920. Serial No. 429,143. 1 Claim. (Cl. 208—45.)



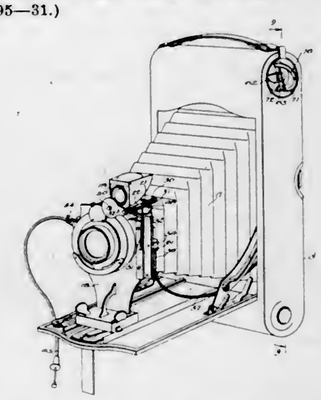
A sidecar body having front and rear seats arranged in tandem, the front seat being of flexible fabric and having a top rail, said front seat being adjustable by swinging the top rail forwardly and rearwardly, and the rear seat being pivoted for swinging movement into open or closed position.

1,478,317. GAUGE. WALTER H. WOOD, Forest, Idaho. Filed Aug. 19, 1922. Serial No. 583,051. 1 Claim. (Cl. 76—46.)



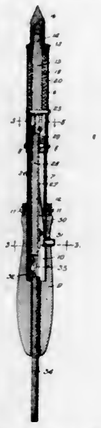
A device of the class described comprising a frame, a movable member supported thereon, means for moving the member at right angles to the frame, file engaging parts on said member cooperating with the file engaging parts on the frame, a slot in the top of said member, an overhanging part on the frame, a set screw carried thereby in alignment with the slot and a flange on the member for engaging a part on the frame.

1,478,318. INDICATOR FOR CAMERAS. EDWARD MORRY WOODWORTH, Rochester, N. Y., assignor of one-fourth to Chauncey C. Woodworth, New York, N. Y. Filed July 18, 1922. Serial No. 575,828. 11 Claims. (Cl. 95—31.)



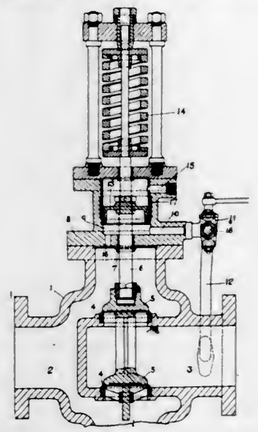
1. The combination with a camera having a shutter mechanism and a finder, of an indicator, comprising a shutter mounted to swing into and out of light obscuring position relative to said finder, manually actuated means for moving said last mentioned shutter out of light obscuring position, and both manually actuated and automatically actuated means for causing the last mentioned shutter to move into light obscuring position relative to the finder substantially simultaneously with the operation of the shutter of the camera.

1,478,319. ELECTRIC SOLDERING IRON. ERNEST YOUNG, New York, N. Y. Filed Feb. 6, 1923. Serial No. 617,292. 5 Claims. (Cl. 219—26.)



1. In a soldering iron, a body, an insulated support in said body extending longitudinally thereof and having a portion providing a partition for dividing said body into compartments, a heating device in one of said compartments including a plurality of resistance coils, an electrical conducting element connected to each of said coils and carried by said insulated support and extending through said partition, another conducting element also extending through said partition and normally disconnected from the first named conducting elements, said other conducting element forming a part of a shunt for one of said coils, and means for actuating said other conducting element to engage with one of the first named conducting elements to complete said shunt.

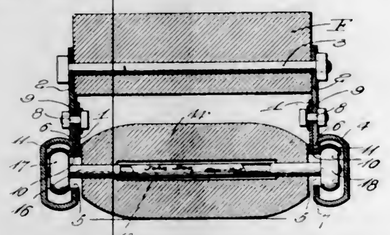
1,478,320. VALVE FOR FEED-WATER SUPPLY TO STEAM GENERATORS AND THE LIKE. ALLAN BAXTER, Motherwell, Scotland. Filed Apr. 7, 1923. Serial No. 630,645. 6 Claims. (Cl. 137—153.)



1. An automatic stop valve mechanism of the character described comprising a stop valve for controlling the fluid supply, a cylinder co-axial with the valve, a piston

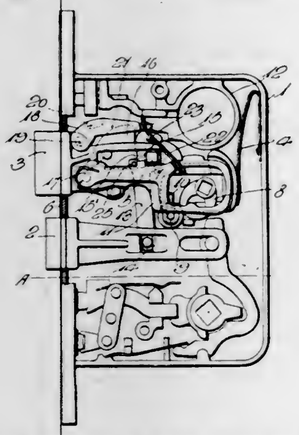
in said cylinder and connected to said valve, a loading device for closing said valve, a connection to atmosphere only from the cylinder space above the piston, a direct connection from the inlet side of the valve to the cylinder space beneath the piston and a connection to the discharge side of the valve from the cylinder space beneath the piston.

1,478,321. WHEEL RIM AND TIRE. JOSEPH BERKEL, New York, N. Y. Filed July 6, 1922. Serial No. 573,063. 6 Claims. (Cl. 305—1.)



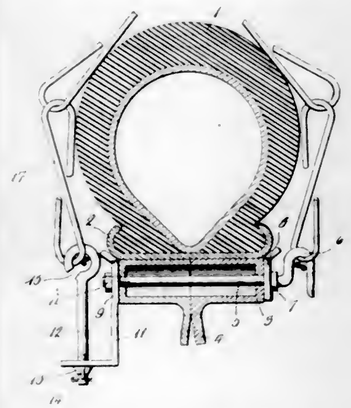
1. A rim and tire construction comprising outer side rings attached to opposite sides of a wheel felly, inner rings secured against the outer rings, said outer rings being provided with circumferentially extending pockets having their inner walls provided with annularly disposed passages and said inner rings being provided with outstanding circumferentially disposed flanges extending through said passages into said pockets and forming tracks, and rollers extending between said pockets and having axles extending into the pockets and having heads rotatably engaging said tracks.

1,478,322. LOCK. GEORGE DALIANIS, New York, N. Y. Filed Sept. 14, 1922. Serial No. 588,222. 5 Claims. (Cl. 70—46.)



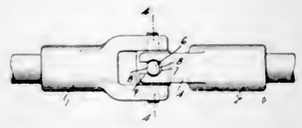
1. A lock comprising a casing containing a spring-pressed latch, a lock-controlled bolt and a lock-controlled tumbler for said bolt; a movable member mounted in said casing and operatively associated with said latch for withdrawing the same, an actuator for said movable member mounted movably on said bolt and operative to effect withdrawal of said latch automatically when the bolt is withdrawn, and a connection between said actuator and said tumbler for automatically moving said actuator out of operative relation with said movable member when said tumbler returns to operative position with the bolt retracted.

1,478,323. ANTISKID-CHAIN-SECURING DEVICE. MICHAEL DEAN, Webster, Pa. Filed Mar. 8, 1923. Serial No. 623,801. 4 Claims. (Cl. 152—14.)



3. In combination with a vehicle wheel and anti-skid chains, means engageable with the wheel for securing said chains in position over the tire thereof comprising transversely disposed bolts engageable in openings in the wheel felly, lugs received upon said bolts and clampingly engaged with the opposite sides of the demountable rim of the wheel, certain of said lugs having bracket-like extensions thereon, certain of the ends of said bolts having inwardly disposed hooks and annular shoulders formed thereon, and eye-bolts adjustably engaged in the free extremities of said bracket-like extensions adapted to receive certain of the links of said anti-skid chains therein, the links upon the opposite ends of said anti-skid chains being engaged in the inwardly diaposed hooks.

1,478,324. UNIVERSAL JOINT. AUGUSTO DINA, Woodbridge, N. J. Filed Nov. 18, 1921. Serial No. 516,076. 1 Claim. (Cl. 64—102.)

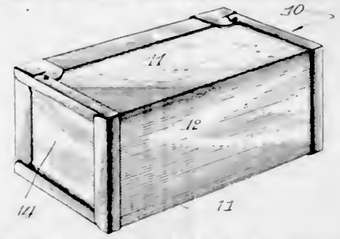


A universal joint comprising a pair of bifurcated members each presenting at the end of the bifurcation a circular bearing and a longitudinal slot, said slot being of a width smaller than the diameter of said bearing, a coupling block presenting a plurality of oppositely disposed trunnions fitting in the space between the arms of the bifurcation, said trunnions having flat parallel sides spaced apart for a distance corresponding substantially to the width of said slots to permit the passage of the former through the latter to couple or uncouple the members when the same are at an abnormal angle relative to each other.

1,478,325. SHIPPING BOX. DENIS DOODY, Montreal, Quebec, Canada. Filed Nov. 5, 1921. Serial No. 513,182. 2 Claims. (Cl. 229—49.)

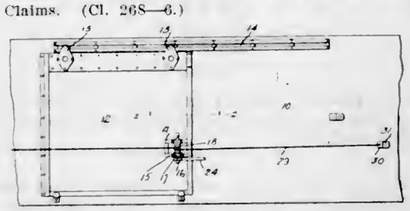
1. The herein described box, comprising a body portion, consisting of a top, bottom and side members, end members engaging the free edges thereof, a frame for securing the box rigidly against displacement and holding the said end members in position, including flanges

adapted for attachment to the top and bottom of the box and flanges forming grooves for receiving the end members, one end of each frame having a notch therein, and a



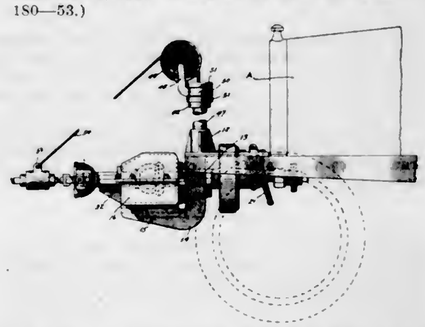
flange on the end of each frame having a notch therein for engaging the notch in the frame, as and for the purposes set forth.

1,478,326. DEVICE FOR OPENING AND CLOSING SLIDING DOORS. WILLIAM J. DOOLEY, New York, N. Y. Filed Sept. 15, 1921. Serial No. 500,987. 2 Claims. (Cl. 268—6.)



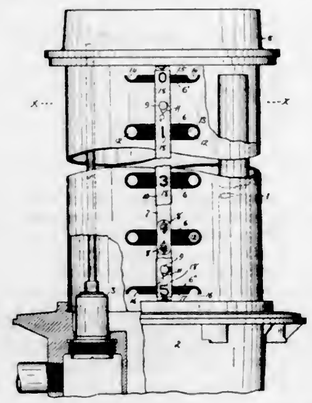
1. A portable device for facilitating the opening and closing of sliding doors comprising a pair of interengageable members, means for detachably securing said members respectively to a door and door support, manipulating means at the point of interengagement of said members for effecting the advancement of the door toward the member secured to the door supoprt, one of said members comprising a flexible element, and means at one extremity thereof for detachably securing the same to the door support, the other of said members consisting of a frame, means for detachably securing the same to the door, a drum rotatably mounted in said frame and adapted to have wound thereon the free extremity of the flexible element, and means for manipulating said drum to effect the rotation thereof and winding of the flexible element thereon.

1,478,327. CANE-CUTTING-APPARATUS TRANSMISSION GEAR. ALFRED W. DUNN, Honomu, Territory of Hawaii, and GURDON POTTER, San Francisco, Calif. Filed Jan. 5, 1922. Serial No. 527,166. 5 Claims. (Cl. 180—53.)



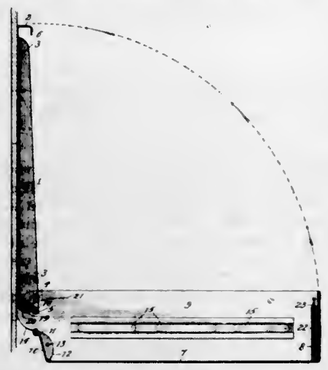
1. An auxiliary transmission gear box adapted to be secured across the forward end frame members of an automobile, a central power shaft projecting therefrom adapted for connection to the auto crank shaft, a transverse shaft within the box geared to the central shaft, and a plurality of forwardly extending stub shafts geared to said transverse shaft available outside of the box for power connections.

1,478,328. GAUGE. FRANK EILERS, Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company, a Corporation of Indiana. Filed Sept. 1, 1920. Serial No. 407,561. 6 Claims. (Cl. 73—166.)



1. In a gauge for transparent liquid measures, an elongated indicating member having a sight opening in each end thereof and a comparatively narrow level-indicating slot extending from each sight opening; and means for supporting the member in horizontal position.

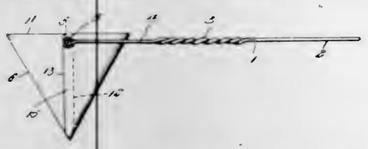
1,478,329. DISPENSING CABINET. ARVID EK, Portland, Me., assignor to Brown Company, Portland, Me., a Corporation of Maine. Filed Apr. 28, 1920. Serial No. 377,261. 1 Claim. (Cl. 211—29.)



A dispensing cabinet comprising a back section having a rear wall, vertical sides, and an inclined bottom, the forward longitudinal edge of the bottom being rolled to form an eye, a front section having a front wall, vertical sides, and an inclined bottom, the forward longitudinal edge of the bottom being rolled and spaced from the rolled edge of the bottom of the back section to form a discharge opening therebetween, means passing through the sides of the front section and the eye of the bottom of the back section for pivotally connecting the sections adjacent their lower ends, extensions formed on the sides of the front section, in front of the rolled edge of the bottom and

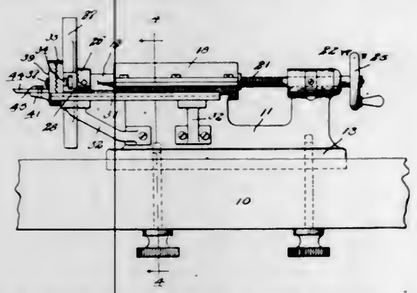
extending therebelow to form closures for the ends of the discharge opening, and means carried by the extensions and engageable with the bottom of the back section for limiting the downward swinging movement of the front section with respect to the back section.

1,478,330. INSECT CATCHER. CHARLES FOWLER, Tompkins Cove, N. Y. Filed Aug. 9, 1922. Serial No. 580,702. 4 Claims. (Cl. 43—136.)



1. An insect catcher comprising a handle having spaced resilient yoke arms provided with eyes, a receptacle of conical form shaped from a primarily flat blank and pivotally attached to the respective yoke arms, said receptacle having lapping meeting edges formed with registering openings, and pivot pins engaging the eyes of the yoke arms, one of said pins passing through one side of the receptacle and the other of said pins passing through said registering openings, whereby the receptacle is pivotally connected by the pins with said yoke arms and is held in closed condition by the pivot pin connection between the same and one of said yoke arms.

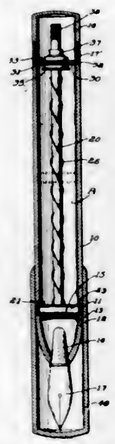
1,478,331. FACE-TURNING MACHINE. CHARLES ALONZO FRANKLIN, Philadelphia, Pa. Filed Feb. 13, 1922. Serial No. 536,268. 1 Claim. (Cl. 144—150.)



In combination, a shank, a tool head supported at one end of the shank and including a plurality of arms radiating from said shank, a two part disk associated with each arm, cooperating means carried by each arm and one part of said disk to hold said parts stationary, the other part of said disk being susceptible of rotation, cooperating means carried by the respective parts of each disk for holding said parts fixed relatively, and means carried by the rotatable part of said disk for supporting a tool thereon.

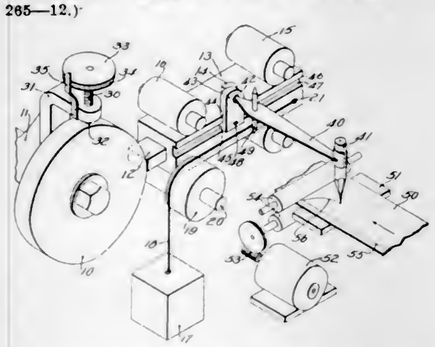
1,478,332. FOUNTAIN PEN. LESTER G. GAARDER and NEIL C. ENGEE, Oshkosh, Wis. Filed Nov. 12, 1921. Serial No. 514,632. 3 Claims. (Cl. 120—47.)

1. In a self filling fountain pen a barrel having its outer end open and enlarged in diameter providing an internal shoulder, screw threads formed on the enlarged portion of a barrel, a supporting plate externally threaded into the enlarged portion of the bore and arranged to fit on said shoulder, said plate having an axial opening therein, a rotatable rod having one end extending through the opening, a suction plunger mounted for traveling movement on the rod during the rotation thereof, an annular retaining ring concentric with the opening in the plate, a compressible gasket in the retaining ring and embracing the rod, stop plates on the rod arranged upon opposite sides of the supporting plate and a cap threaded



into the threaded enlarged portion of the barrel for engaging the outer surface of the supporting plate to prevent movement thereof.

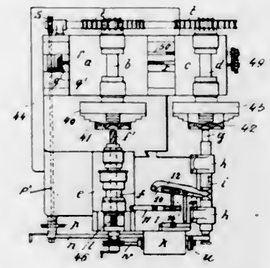
1,478,333. PROCESS AND APPARATUS FOR CLASSIFYING GRINDING WHEELS. CHARLES E. GILLETT, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 7, 1919. Serial No. 281,303. 5 Claims. (Cl. 265—12.)



1. The method of classifying a grinding wheel comprising the steps of rotating the wheel at a normal grinding velocity, grinding a standard wearable tool thereby under uniform pressure and for a definite period, making successive determinations of the grinding effect of the wheel on the tool as the operation proceeds, measuring the wheel wear produced in the time interval, and from the grinding characteristics thus observed classifying the wheel by comparison with data obtained with standard wheels.

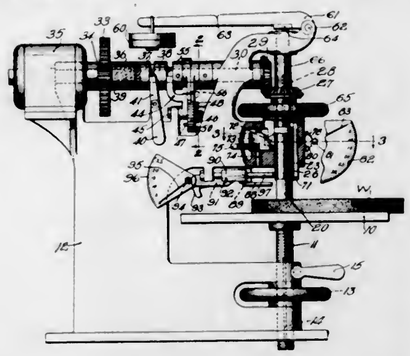
1,478,334. PROFILING MACHINE. HUGO GREFE, Ludenscheidt, Germany. Filed Apr. 19, 1921. Serial No. 462,599. 12 Claims. (Cl. 90—13.4.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In a profiling machine having means for rough-milling work-pieces according to templates by producing a number of holes partly overlapping each other in combination a tool carrying slide, means for imparting feed-movement to said slide, a feeler device containing a feeler and a carrier for same, interposed means between said feeler device and the said slide causing the latter to positively move the said carrier in accordance with its own movement but leaving the feeler at rest if the latter contacts



the template, a coupling device coupling the said slide with the means for imparting the feed movement and containing a reverse gear and means for shifting the said coupling device and reversing the feed movement controlled by the movement of the said feeler relatively to the said carrier.

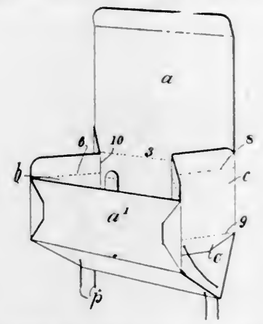
1,478,335. METHOD OF AND APPARATUS FOR GRADING. CHARLES J. HUDSON and WILSON C. BROGA, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 1, 1919. Serial No. 274,507. 17 Claims. (Cl. 265—12.)



1. The method of grading an article of bonded abrasive grains which comprises relatively moving a wearable tool and said article in contact through an extensive circular path and thereby abrading the tool by the action of successive abrasive grains, simultaneously feeding the tool forward under a definite pressure, continuing said relative movement for a definite period and until a measurable reduction in tool size has been produced, and measuring the combined amounts of wear upon the article and the tool produced by such abrasion.

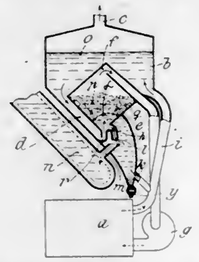
1,478,336. FOLDING BOX OR CARTON. ROWLAND HUNT, Hackney, London, England. Filed Aug. 15, 1922. Serial No. 582,082. 6 Claims. (Cl. 229—41.)

3. A folding box having a bottom adapted to fold outwardly on a horizontal line, ends foldable with relation to opposing edges of the bottom, sides connected to the ends and with their marginal edges free of connection to the bottom, said sides being adapted to fold inwardly on vertical lines, the sides having flanges adapted to fold relative to such sides and bear upon the bottom when the sides are extended, and a string secured to said



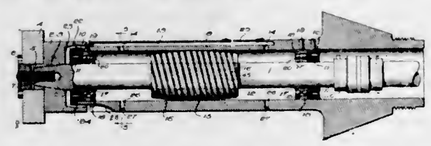
flanges and passing through the bottom, said string being operable to position the sides relative to the bottom and hold the flanges of the sides in contact with the bottom.

1,478,337. METHOD OF TREATING SOLUTIONS TO OBTAIN SOLID CONSTITUENTS THEREOF SEPARATED IN A COARSE CONDITION. ISAK ISAACHSEN, Christiania, Norway, assignor to A/S De Norske Saltverker, Bergen, Norway. Filed Oct. 12, 1921. Serial No. 507,231. 9 Claims. (Cl. 23—13.)



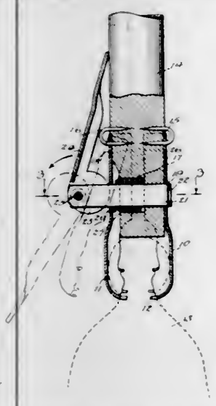
1. Process of forming coarse-grained crystalline products from solutions by growing crystals therein which comprises maintaining a flow of the solution of the material to be crystallized, producing supersaturation of the solution at one point in the flow and contacting the solution with a mass of crystals of the material at a place spaced apart from the place at which the supersaturation of the solution is produced.

1,478,338. SPINDLE. BENJAMIN O. ISOM, Marysville, Mich. Filed Sept. 6, 1921, Serial No. 498,850. Renewed May 9, 1923. 6 Claims. (Cl. 64—47.)



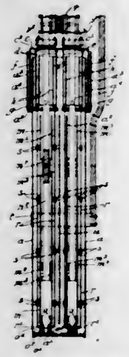
2. In a device of the character described, a spindle, a housing surrounding the spindle, packing boxes arranged between said housing and said spindle to form an oil chamber, self-alining bearings arranged between said spindle and said housing, means for pumping oil through said chamber in the direction opposite to the direction of thrust on the spindle, and means for returning the oil to one end of the oil chamber.

1,478,339. MOP HEAD. WADE H. JAYNE, New York, N. Y. Filed Oct. 16, 1922. Serial No. 594,824. 2 Claims. (Cl. 15—150.)



1. In a mop including a handle, a mop head comprising two jaws hinged to the mop handle opposite one another, a pin extending through the jaws and handle and engaging one of the jaws, a cam carried by the pin for operating the jaws, and a spring located in the handle and mounted on the pin between the jaws for operating one of them when released by the operation of the cam.

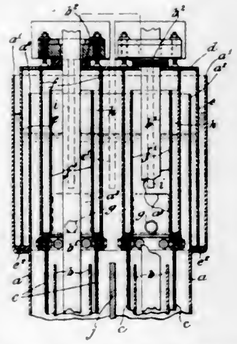
1,478,340. ELECTROLYTIC CELL FOR GENERATING OXYGEN AND HYDROGEN. ISAAC H. LEVIN, New York, N. Y. Filed Jan. 14, 1920, Serial No. 351,363. Renewed Apr. 24, 1923. 16 Claims. (Cl. 204—5.)



1. An electrolytic cell embodying therein an outer electrode comprising a metal tank adapted to contain electrolyte, a high amperage, low voltage inner electrode supported by and insulated from said tank, a cover for said tank, means carried by said cover forming two non-communicating gas chambers, one adjacent the top of said outer electrode and the other above said inner electrode, and an absorbent gas impervious diaphragm extending about said inner electrode and supported by the means forming the gas chamber above same, said diaphragm being positioned below the normal level of the electrolyte in said tank.

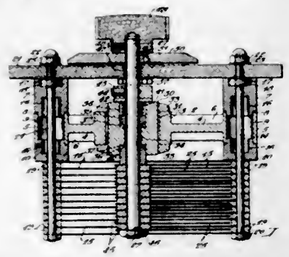
1,478,341. ELECTROLYTIC CELL. ISAAC H. LEVIN, New York, N. Y. Filed Jan. 14, 1920, Serial No. 351,364. Renewed Apr. 24, 1923. 10 Claims. (Cl. 204—5.)

1. An electrolytic cell embodying therein an outer electrode forming a tank for the electrolyte, an inner electrode within said tank, a diaphragm separating said electrodes, a cover for said tank forming noncommunicating gas chambers adjacent said inner and outer electrodes respectively, and a circulation system whereby electrolyte may flow from adjacent one electrode to adjacent the other, comprising a tortuous, continuous channel, one end of which communicates with the interior of said tank adjacent said inner electrode, and the other end of which communicates with the interior of said tank adjacent said outer electrode, one portion of said channel



opening at the top thereof into the gas chamber above said inner electrode, another portion thereof opening at the top adjacent said outer electrode and an intermediate portion thereof communicating with atmosphere, whereby gas bubbles will be separated from the electrolyte flowing through said channel, and gas freed by the bursting of bubbles will be discharged into a gas chamber containing the same kind of gas, while any gas not thus freed will be discharged into atmosphere.

1,478,342. ELECTRICAL AIR CONDENSER. RALPH C. LEWIS, Providence, R. I., assignor to Coto-Coil Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 31, 1921. Serial No. 441,115. 11 Claims. (Cl. 250—41.)

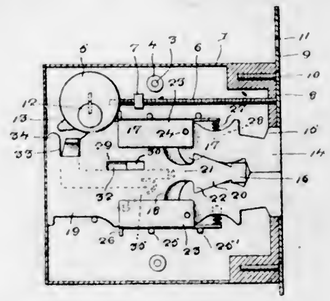


1. An electrical air-condenser comprising a single unitary mounting consisting in a spider-member having an extended bearing-hub and a skeleton structure supported therefrom, a series of superimposed spaced-apart condenser-plates suspended from said spider, a spindle journaled in the bearing-hub and projecting downwardly therefrom, and a second series of superimposed spaced-apart movable plates mounted on the projecting portion of the spindle below the hub to adapt them to be swung into position between the fixed plates.

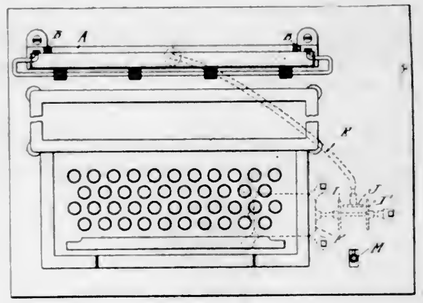
1,478,343. LOCK. ORIN J. LOONEY, Bryn Mawr, Pa. Filed Oct. 8, 1921. Serial No. 506,406. 1 Claim. (Cl. 70—46.)

A lock of the character described comprising a casing, a pair of locking bolts having inner and outer hooked ends slidably mounted in said casing, guide strips attached to the inner ends of said bolts, springs mounted on said guide strips adapted to hold said locking bolts

together, means for limiting the forward movement of the locking bolts provided on said guide strips, a third bolt having a neck and head engaging the inner hooked ends of the locking bolts and provided with a slot, a projection on the casing entering said slot, a tumbler provided with a lug for engaging said projection pivoted to said third bolt, a cylinder mounted within the casing, a key barrel rotatably mounted in said cylinder, and a cam carried by said key barrel adjacent one end of the tumbler and operating bolt adapted upon turning to engage said tumbler and swing the lug carried thereon free of the projection in the slot and then engage the operating bolt to move same forward.



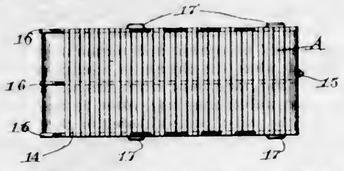
1,478,344. TYPEWRITER COPYHOLDER. ANDREW S. MACDOWELL, Rochester, N. Y. Filed May 24, 1921. Serial No. 472,217. 16 Claims. (Cl. 120—29.)



15. In a typewriter copyholder, the combination with a copy supporting member that is movable in a vertical plane for exposing lines of copy successively, of a vertically disposed rotary screw operatively associated with the copy supporting member and acting to raise or lower the same, a flexible shaft detachably connected with said screw, a driving shaft, a pair of clutch members fixed on the driving shaft, and a clutch member fixed on said flexible shaft and arranged between the first mentioned clutch members, said flexible shaft being bodily movable to bring its clutch member into engagement selectively with the clutch members on the driving shaft and at different radial positions relatively thereto so as to operate at varying speeds and in either direction.

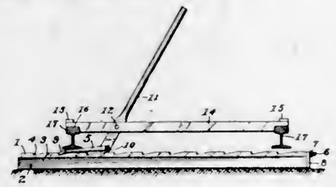
1,478,345. TOBOGGAN. IAN EUICHIN MATHESON, Radville, Saskatchewan, Canada. Filed June 2, 1923. Serial No. 643,098. 1 Claim. (Cl. 9—11.)

A toboggan comprising a pair of runners and a third reinforcing runner suitably connected by a plurality of cross bars, means on said runners adapted to engage with a suitable runway or slide, a water-proof and air-tight covering for the toboggan whereby in combination with



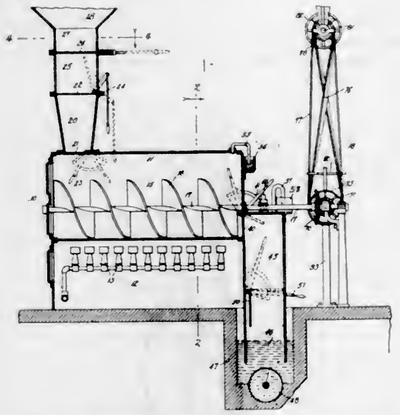
the runners and cross bars an air chamber is formed, valve means for controlling the air pressure in said chamber and flexible handle means on the toboggan.

1,478,346. DEVICE FOR REMOVING TIES FROM RAILROAD TRACKS. OSCAR J. MENDENHALL, Gibbon, Nebr. Filed Oct. 3, 1921. Serial No. 505,163. 3 Claims. (Cl. 254—43.)



1. A device for removing railroad ties from tracks, comprising a frame having means for engaging the rails of a track, a ratchet bar located beneath the rails and unattached to and spaced out of alignment with the frame by the rails and adapted to be supported upon a tie and provided with means for engaging one end thereof, said ratchet bar being provided with teeth, a lever fulcrumed in the frame and a dog carried by the lever and arranged to engage the teeth of the ratchet bar.

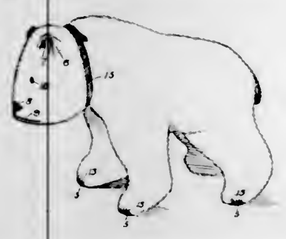
1,478,347. APPARATUS FOR CALCINING LITHOPONE. JOHN L. MITCHELL, Greenwich, Conn. Filed June 2, 1920. Serial No. 385,991. 4 Claims. (Cl. 134—78.)



1. An apparatus for the calcining of lithopone, comprising a muffle furnace, agitating means within said muffle furnace, a charging chamber connected to said muffle furnace, a delivering chamber connected with the discharge end of said furnace to receive the calcined product from said furnace, a door between said delivering chamber and said furnace, a trough contain-

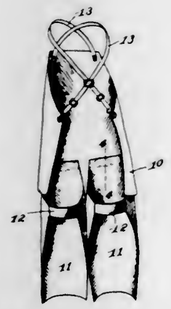
ing water, the lower end of the delivering chamber extending down into and below the surface of the water, a submerged conveyor in said trough to carry off the quenched calcined product, and a door disposed intermediate the length of the delivering chamber above the lower end thereof to receive and temporarily retain the charge thereof when the charge is discharged from the furnace, said last mentioned door also discharging material into the water, the door, after it has discharged material into the water being elevated to close off the upper end of the delivering chamber from the fumes due to the quenching.

1,478,348. TOY ANIMAL AND METHOD OF MAKING THE SAME. LEONARD MYERS, Gloversville, N. Y. Filed Jan. 18, 1922. Serial No. 530,046. 1 Claim. (Cl. 46—40.)



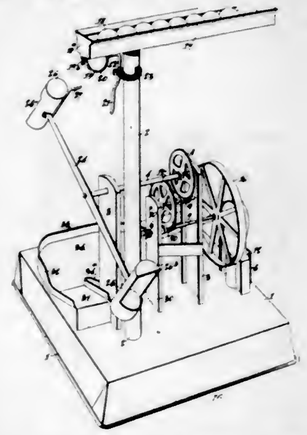
As a new article of manufacture a toy bear formed of pieces of animal skin sewed together with the woolly side out to form the head, body and legs and the whole stuffed, pieces of leather secured to the lower ends of the legs to extend below the same and form therewith feet, the forward ends of the feet being provided with spaced stitches to represent claws, ears formed of pieces of similar skin sewed to the head with the woolly side out and exposing the leather side to represent the inside of the ears, eyes each carried by a wire extending into the inside of the head and twisted with the twisted portion resting against the inside of the head, and threads contrasting in color to the color of the wool of the skin and sewed onto the head to represent the nose and mouth.

1,478,349. GARMENT. RALPH F. OBERNDORFER, Milwaukee, Wis., assignor to Oberndorfer Company, a Corporation of Wisconsin. Filed July 1, 1922. Serial No. 572,209. 3 Claims. (Cl. 2—54.)



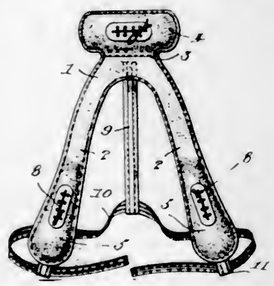
3. In combination, an apron comprising two layers of material, the outer layer being acid resisting and leg protectors secured to the inner layer and above the bottom edge of the apron in spaced position from the sides thereof.

1,478,350. MECHANICAL TOY. HARRY ALFRED OKEL, Wheeling, W. Va. Filed June 16, 1921. Serial No. 478,091. 1 Claim. (Cl. 46—37.)



In a mechanical toy of the character described, a rotatable shaft, a lever arm attached to said shaft, a receiver on each of the opposite ends of said lever arm, a trip member carried on each end of said arm, a weight supplying trough having a discharge opening through which to deposit successive weights into the arm carrying receivers as they pass under said opening, a detent consisting of a hinged loop mounted beneath said opening and a lever portion adapted to be engaged by said trip member at intervals, and means tending normally to hold said loop beneath said opening to normally retain a weight in said loop and opening, all being arranged whereby the weight normally held in said opening will project into the trough above the opening to form a stop for succeeding weights until said weight in the opening is released.

1,478,351. LIFE PRESERVER. LAUGHLIN JAMES O'SHAUGHNESSY, Halifax, Nova Scotia, Canada. Filed Feb. 23, 1923. Serial No. 620,780. 4 Claims. (Cl. 9—17.)

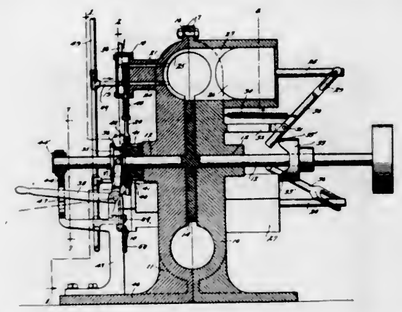


1. A life preserver comprising a neck-piece and a pair of arms extending therefrom, a float having one edge secured to said neck-piece, body floats provided at the lower ends of said arms, and means for stiffening said neck-piece and arms.

1,478,352. ROTARY ENGINE. GEORGE PAGONIS, New York, N. Y. Filed Jan. 10, 1920. Serial No. 350,639. 2 Claims. (Cl. 121—73.)

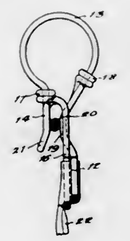
1. A rotary engine, comprising a casing having a central disk-shaped cavity, an annular chamber into which leads the said cavity and at one side three radial

channels open at their outer end having their inner ends opening into the annular chamber, the said chamber having in its side opposite the channels grooves, a shaft mounted in the casing and projecting from each side thereof, a rotor comprising a disk-shaped member and two oppositely arranged piston blades, said rotor being mounted on the shaft with its disk-shaped member working in the said cavity and its blades in the annular



chamber, reciprocating abutments in the channels and adapted to be seated in the grooves of the annular chamber, means for reciprocating the abutments from one end of the shaft, a plurality of valves on the side of the casing opposite the channels, each valve having two inlet and two exhaust ports leading into the annular chamber, an inlet and exhaust port being on each side of a groove thereof, and means for operating the valves from the other end of the shaft.

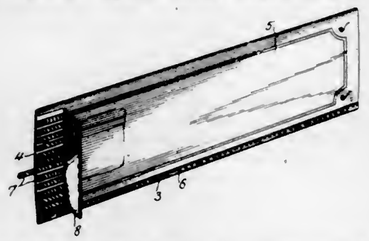
1,478,353. CLOTHESPIN. PETER CHARLES PARTENIO, Brooklyn, N. Y. Filed Apr. 11, 1923. Serial No. 631,395. 4 Claims. (Cl. 24—139.)



1. A clothespin for suspending articles of clothing from a clothes line, comprising a body, jaw members depending from said body for gripping the article of clothing and an independent jaw depending from said body and extending parallel to said article gripping jaws and co-operating with the latter to engage the clothes line, and a locking member for locking the clothespin in position on the clothes line formed integral with one of the article gripping jaws.

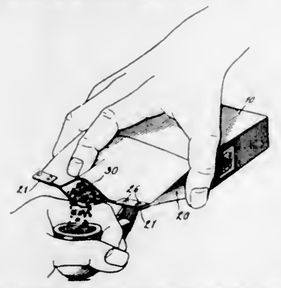
1,478,354. SPECIAL PACKAGE OR CONTAINER. JONATHAN PETERSON, Brooklyn, N. Y., assignor to Combination Machine Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 11, 1922. Serial No. 543,016. 3 Claims. (Cl. 206—46.)

1. A holder for pipe cleaners or similar articles, comprising an open-ended receptacle formed of two flat side members of resilient sheet material of substantial thickness approximately in facial contact and joined together along their longitudinal edges and normally acting by their inherent resiliency to clamp and retain pipe cleaners or similar articles located between them, and a bendable tongue extending longitudinally in one



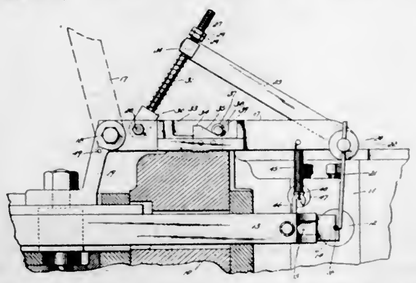
of the side members at one end and terminating substantially flush with the end of said side member, to give ready access to the holder contents.

1,478,355. DISPENSING POUCH OR PACKAGE. JONATHAN PETERSON, Brooklyn, N. Y., assignor to Combination Machine Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 4, 1922. Serial No. 604,793. 6 Claims. (Cl. 206—41.)



1. A dispensing container comprising a pouch of flexible sheet material having a neck with separable outward or mouth margins normally in flatwise contact, and separate fastening clips of relatively stiff sheet material securing the opposite neck margins together at the sides thereof, closing end portions of the mouth and leaving a dispensing opening between the clips which may be sprung divergently by endwise pressure.

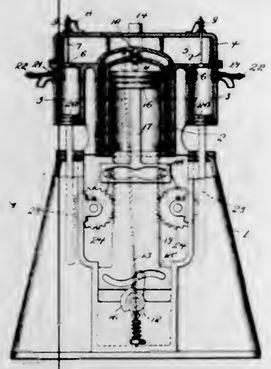
1,478,356. TRANSFER MECHANISM. CLIFFORD O. PETITJEAN, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed July 27, 1921. Serial No. 487,950. 25 Claims. (Cl. 10—11.)



2. In combination with the cutter bar of a header, upsetting machine or the like, of a bar movably connected therewith that travels in a substantially straight

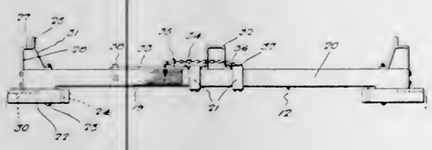
path in one direction with said cutter bar, and means between the ends of said bar, and in part connected with a non-movable part, for actuating said bar while moving in the opposite direction with said cutter bar, to cause the same to travel out of said substantially straight path for a portion of its movement, and a finger connected with said bar.

1,478,357. ENGINE. ALVAH L. POWELL, Roundup, Mont., assignor to The A. L. Powell Power Company Incorporated, a Corporation of Montana. Filed Dec. 10, 1919. Serial No. 343,952. 1 Claim. (Cl. 123—68.)



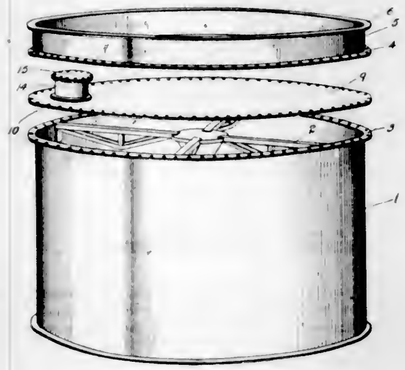
In an engine of the class described comprising a power cylinder and working piston therein, a rod connected to said piston and having a transversely slotted head, auxiliary cylinders, a compression piston arranged within each of said auxiliary cylinders, a rod connected to each of said compression pistons, each of said rods having a racked portion, a pinion in mesh with the racked portion and means acting within the slotted head of the working piston rod for driving the pinion and thereby the compression, pistons in opposite direction to that of the working piston and at a relatively different ratio of speed to that of said working piston.

1,478,358. FOLDING BED FOR VEHICLES. BURTON E. CRAIN, Springfield, Mo., assignor of one-half to Frank W. Crain, Springfield, Mo. Filed Dec. 17, 1921. Serial No. 523,114. 6 Claims. (Cl. 5—118.)



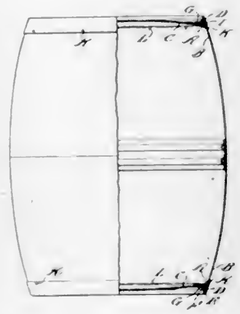
1. A folding bed comprising a frame including longitudinal bars and transverse bars, a fabric covering secured to the longitudinal bars, upwardly extending brackets secured to and extending above the transverse bars, vertically disposed tongues extending upwardly from the brackets, shoulders disposed adjacent the tongues to provide right angularly disposed horizontal seats for receiving the longitudinal bars to support the latter and loops secured to the longitudinal bars to engage the tongues upon the opposite sides of the seats and provide tongue engaging sockets, to connect the transverse and longitudinal bars.

1,478,359. LIQUID-SEALED DECK FOR TANKS. CHARLES R. GALLAGHER, Los Angeles, Calif., assignor of one-half to Andrew A. Kramer, Kansas City, Mo. Filed Nov. 24, 1922. Serial No. 603,113. 4 Claims. (Cl. 220—13.)



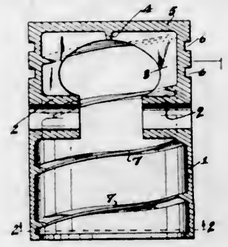
1. A combined tank and deck comprising a tank wall, a deck ring, a sheet co-extensive with the cross sectional area of the deck ring and the cross sectional area of the tank, and means for fastening the tank, the sheet and the deck ring together.

1,478,360. BARREL CHIME. OWEN THOMAS, Cleveland, Ohio, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 29, 1919. Serial No. 341,378. 1 Claim. (Cl. 220—23.)



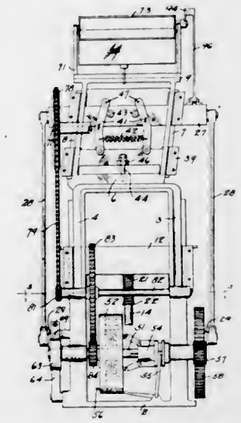
The combination with an integral head and side of barrel, of the sheet metal chime ring fitted thereto at the junction of the head and side, said chime ring having a portion contacting with the side of barrel, a portion contacting with the head of barrel, the intermediate portions being bent together to provide a double chime portion, the angle between the head and side portions containing brazing material by means of which the ring is brazed to the barrel.

1,478,361. PISTON CONSTRUCTION. HARRY C. METZGER, Los Angeles, Calif., assignor to Atlas Machine Works, Inc., Los Angeles, Calif., a Corporation of California. Filed May 27, 1920. Serial No. 384,721. 7 Claims. (Cl. 74—108.)



1. A piston construction having an interior spiral strengthening rib.

1,478,362. NAILING MACHINE. ELMER C. NORTHRUP, San Francisco, Calif. Filed Jan. 26, 1920. Serial No. 354,070. 10 Claims. (Cl. 1—10.)



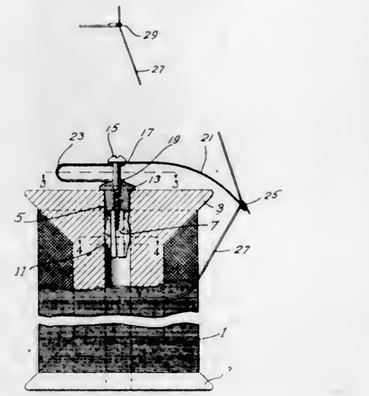
1. In a nailing machine, a slidably mounted hammer bracket, a slidably mounted nail chuck bracket, means for reciprocating the hammer bracket, a pair of bent arms pivoted to one of said brackets, studs on the other of said brackets engaged by said arms, and means for resiliently pressing said arms into engagement with said studs.

1,478,363. HEATING UNIT FOR OVENS. WILLIAM F. SCHALLER, San Francisco, Calif. Filed Mar. 24, 1921. Serial No. 455,243. 5 Claims. (Cl. 219—35.)



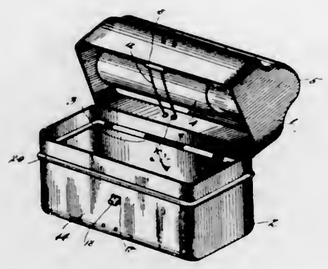
1. An oven heating unit comprising a movable carriage, a plurality of insulating plates carried thereby, a plurality of heating elements supported by the insulating plates, and a roller on the carriage for the support of a movable floor.

1,478,364. UNWINDER FOR SPOOLS. ROBERT K. CLARK, Springfield, and EMIL W. KROEPEL, Holyoke, Mass., assignors to The American Thread Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 3, 1922. Serial No. 572,673. 4 Claims. (Cl. 242—128.)



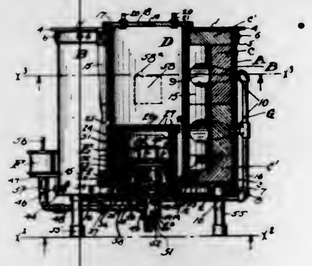
1. In an unwinder for spools the combination of a plug having an axial hole and adapted to enter the hole in a spool end, a headed member located within the hole in said plug and longitudinally adjustable therein, a flier carried by said member, the tension of said flier being adjustable by the longitudinal movement of said member relatively to said plug.

1,478,365. RECEPTACLE AND HOLDING AND LOCKING MEANS THEREFOR. THOMAS B. WRIGHT, Cincinnati, Ohio, assignor of one-half to Collins C. Diboll, New Orleans, La. Filed Jan. 24, 1922. Serial No. 531,478. 4 Claims. (Cl. 220—55.)



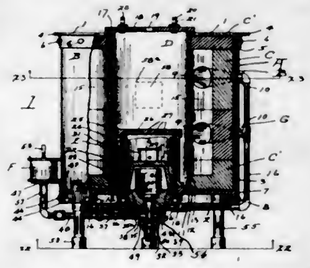
1. In combination with a receptacle including a body member and a cover member hinged to the same, of a first movable fastening element connected to one of said members, a second fastening element connected to the other member and engageable with the first fastening element for holding the cover in closed position, one of said elements being operable from the exterior of the receptacle to permit the fastening elements to be disconnected, a container holding device connected to one of said members and having a free end, and means arranged on one of said fastening elements for engaging said free end for locking the container holding device in position.

1,478,366. APPARATUS FOR TREATING IRON AND IRON ALLOYS. WILLIAM HOWARD FISHER, Los Angeles, and PETER CHAMBERS, Redondo Beach, Calif. Filed May 18, 1920. Serial No. 382,290. 14 Claims. (Cl. 266—5.)



1. A furnace, comprising an outer wall of refractory material, an inner stationary retort wall spaced therefrom, said walls forming between them a continuous combustion space, means for supporting combustion in said combustion space, whereby said retort wall is heated; and means for supplying a hydrocarbon fluid to the space confined by said retort wall; said last named means comprising means for initially vaporizing said hydrocarbon fluid.

1,478,367. PROCESS FOR TREATING IRON AND ITS ALLOYS. WILLIAM H. FISHER, Los Angeles, and PETER CHAMBERS, Redondo Beach, Calif. Original application filed May 18, 1920, Serial No. 382,290. Divided and this application filed Oct. 13, 1920. Serial No. 416,657. 8 Claims. (Cl. 148—17.)



1. The method of carburizing steel and similar metals and alloys thereof when heated to a carburizing temperature in a work-holding retort of a furnace, which consists in causing a hydrocarbon fluid to flow into a portion of said retort in such a manner as to be subjected successively to an increasing heat, whereby a portion of the fluid expands into a vapor, then retarding the movement of the vapor, and finally distributing same around the work in the form of a carbonizing gas.

Patents Nos. 1,478,368 to 1,478,995.

THE
OFFICIAL GAZETTE
OF THE
United States Patent Office.

Vol. 317—No. 4. TUESDAY, DECEMBER 25, 1923. Price—$5 per year.

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Designs	74	No. 63,601 to No.	63,674,	inclusive.
Patents	628	No. 1,478,368 to No.	1,478,995,	inclusive.
Total	996			

Amendment to the Rules of Practice.

(ORDER NO. 2,846.)

Acting under the provisions of section 483 of the Revised Statutes and with the approval of the Secretary of the Interior, the following rules of the Rules of Practice of the United States Patent Office are amended as follows:

Rule 191, lines 24 and 25, cancel—

Size 10 by 15 inches, per copy ..... .25
Size 8 by 12½ inches, per copy ..... .15

and substitute—

Size 8 by 13 inches, per copy ..... .20
Size 6 by 9 inches, per copy ..... .15

This becomes effective January 1, 1924.

THOMAS E. ROBERTSON,
Commissioner.

Notice—Change in Size and Price of Photostat Copies of Manuscript.

On and after January 1, 1924, photostatic copies of manuscript applications and file wrapper and contents, and records of assignments, will be furnished on prints 8 x 13 inches, for which a charge of twenty cents per sheet will be made. This will produce a print approximately full size of the original, and hence as legible as the original.

Notice of Cancellation.

U. S. PATENT OFFICE, *Washington, Dec. 13, 1923.*

V Co., its assigns or legal representatives, take notice:

A cancellation proceeding has been instituted by this Office upon the application of The M. Shaffer Company, 724 Passyunk Avenue, Philadelphia, Pa., to effect the cancellation of the trade-mark registration of V Co., of Wheeling, W. Va., No. 90,603, dated March 4, 1913. The Office having been unable to secure service upon said V Co., notice is hereby given that unless said V Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING, *Acting Commissioner.*

Notice Regarding Payment of Fees.

All fees must be paid in advance. Payment of money required for Office fees *must* be made in specie, Treasury notes, national-bank notes, post-office money orders, or certified checks. Money orders and checks must be made payable to the "Commissioner of Patents." Money sent by mail to the Patent Office will be at the risk of the sender. (See Rule 194.)

Certified checks, bank drafts, express and foreign money orders must be immediately negotiable in this country and for the full amount of the fee required by the Patent Office. No allowance can be made by this Office for any charge for their collection or exchange. Postage stamps will not be accepted. Failure to comply with the above instructions will cause delay.

Condition of Applications Under Examination at Close of Business December 14, 1923.

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 66,449; Trade-Mark Division, 1,916. Oldest new case, Mar. 2, 1923; oldest amended, Mar. 6, 1923. The dates given are 1923.) Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of Applications awaiting action.
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128	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco.	Apr. 18	Apr. 17	1,171
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	July 13	Aug. 6	981
234	4. MERRITT, A. D., Conveyers, Chutes, Skids, Guides, and Ways; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Apr. 23	May 24	1,402
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Mar. 22	Mar. 27	1,441
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Chemistry—Carbon Compounds; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Mar. 21	May 3	1,789
312	7. JARBOE, C. G., Games and Toys; Optics; Photography	May 10	May 10	2,493
133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	July 2	July 2	1,676
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	Apr. 14	Oct. 5	736
235	10. BARTHOLOMEW, J. A., Motor Vehicles; Land Vehicles—Animal Draft Appliances, Bodies and Tops, Dumping, Wheel Substitutes.	May 7	June 18	1,410
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Hides, Skin, and Leather; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	July 12	July 13	793
322	12. PIERCE, F. P., Machine Elements	Apr. 30	May 18	1,206
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning.	May 8	June 14	1,167
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Mar. 19	Oct. 12	1,022
308	15. REDROW, W. L., Glass; Laminated Fabric and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Mar. 21	Apr. 7	1,992
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Mar. 28	Mar. 23	2,613
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Association or Folding; Sheet or Web Feeding or Delivering; Type Setting.	Apr. 6	July 24	1,331
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	Mar. 17	Mar. 24	1,999
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Thermostats and Humidostats.	June 19	Sept. 6	1,178
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Dentistry; Locks and Latches; Safes; Undertaking.	May 14	May 12	1,378
212	21. THURBER, W. L., Winding and Reeling; Textiles—Braiding, Netting, or Lace Making, Cloth Finishing, Fiber Preparation, Knitting, Spinning, Twisting or Twining, Weaving.	Mar. 16	Sept. 8	933
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Apr. 30	June 11	502
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Recorders; Registers; Sound Recording and Reproducing.	Mar. 13	Mar. 19	701
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Apr. 3	Apr. 28	1,063
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Cutlery; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Gas Separation.	Aug. 6	July 25	900
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Apr. 6	Apr. 3	978
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	May 1	May 3	1,325
225	28. BENSON, A. R., Internal-Combustion Engines	June 4	June 4	1,272
147	29. MORRIS, B. N., Abrading; Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Apr. 2	May 14	1,202
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Apr. 26	Oct. 4	1,162
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar, Starch, and Carbohydrates; Concentrating Evaporators.	Apr. 30	Apr. 26	1,403
120	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Apr. 2	Apr. 2	1,340
70	33. WYMAN, W. I., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Rod Joints or Couplings; Pipe Joints or Couplings; Valved Pipe Joints or Couplings.	May 10	May 3	1,436
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	May 3	June 22	940
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	July 24	Aug. 14	808
265	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	June 8	June 4	1,897
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Apr. 11	Apr. 14	1,757
378	38. IDE, G. B., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Mar. 22	Apr. 6	1,670
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Mar. 2	Mar. 10	1,168
271	40. OBERLIN, J. J., Baggage; Bottles and Jars; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Apr. 5	Aug. 16	1,941
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	May 3	May 31	983
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Apr. 28	May 10	1,719
382	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Electricity, Medical and Surgical; Fire Extinguishers; Medicines; Sewerage; Surgery; Liquid Separation or Purification.	May 8	Mar. 26	1,639
253	44. SHAFFER, C. H., Bread, Pastry, and Confection Making; Dispensing; Dispensing Beverages; Filling and Closing Portable Receptacles; Railway Draft Appliances; Refrigeration.	Apr. 12	July 23	1,088
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	June 21	May 3	1,477
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	June 2	June 18	1,219
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems; Horology; Time-Controlling Mechanism.	Apr. 6	Aug. 27	1,085
116	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Mar. 3	Mar. 6	2,369
383	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Fuel and Igniting Devices; Joint Packings; Packed Shaft or Rod Joints; Pneumatics; Velocipedes.	May 8	May 28	550
102	DESIGNS: C. D. MARKHAM (Acting)	Sept. 5	Oct. 11	907
163	TRADE-MARKS, LABELS AND PRINTS: T. L. MEAD, JR. {Trade-Marks	Oct. 25	Nov. 24	1,878
	{Labels and Prints	Dec. 1	Dec. 11	38

DECISIONS IN PATENT AND TRADE-MARK CASES.

Commissioner's Decisions.

EX PARTE HORTON.

Decided April 11, 1922.

ANTICIPATION—ADVANTAGES IN STRUCTURE AS DISCLOSED, BUT NOT AS CLAIMED.

Where the advantages set forth by applicant are admitted, yet none of the appealed claims is limited to a construction which defines such advantages or brings out the features which define the arrangement over that of the reference, *Held* that the claims are too broadly expressed to be patentable.

[NOTE.—This application has resulted in Patent No. 1,439,892, December 26, 1922.]

APPEAL from Examiners in Chief.

MOTOR CONTROLLER.

Mr. Frank H. Hubbard for the applicant.

KINNAN, *First Assistant Commissioner:*

The applicant has appealed from the decision of the Examiners in Chief affirming that of the Primary Examiner denying patentability to some six claims, of which those numbered 1 and 3 will serve as examples:

1. In a motor controller, in combination, an accelerating device and a speed regulating device, said devices having a common resistance to be controlled thereby and said speed regulating device having means for commutating the connections between said accelerating device and said resistance whereby said speed regulating device may be set to vary the limit of acceleration by said accelerating device and subsequently adjusted for independent regulation of said resistance.

3. In a motor controller, in combination, a starting and speed regulating resistance, a device for varying said resistance for speed regulation and a starting device for varying said resistance in a step by step manner for acceleration, the latter device being connected to said resistance through said speed regulating device whereby its range of effectiveness is variable by said speed regulating device.

The reference is the patent to Whittingham, 1,241,180, Sept. 25, 1917.

As well set forth in the claims appealed, the invention relates to motor controllers. The electromagnetically-operated starting and accelerating device effects the resistance variation according to the previous set of the speed-regulating device, and after the operation of such starting device the hand-operated speed regulator may be controlled to effect a further variation of the armature resistance. More specifically, the control circuits of the step-by-step starting device pass through contacts of the speed-regulating lever, and once these contacts of the starting device are closed they remain so irrespective of the position or movement of the speed-regulating lever. There is normal short circuit about the field resistance R' which is opened at contacts 13 14 after the engagement of the other starting-device contacts. Operation of the speed-regulating lever cuts out the armature resistance step by step, and thereafter cuts in, if moved further, the field resistance if the short circuit in the starting device has opened. By this interaction of the starting and the speed-regulating device the latter may be set so the starting device will include or exclude all of the armature resistance, and by movement of the regulating lever any intermediate amount of resistance may be included without changing the accelerating device. When the starting device operates, it will first close the contacts 6 9, but if the speed lever is in the position shown in the drawing this will have no effect. Subsequently contacts 7 and 10 will be closed, and if the speed lever is in the position shown this will be without effect to reduce the armature resistance. Finally contacts 8 and 11 are closed, which likewise fails to cut out the armature resistance once the lever in the regulator is moved from the position shown. However if the speed-regulating lever is moved to the position indicated in dotted lines before the main switch is closed the starting device will automatically cut out the armature resistance step by step by the closure in sequence of the contacts 6 9, 7 10, and 8 11.

The patent to Whittingham discloses a system which operates to accomplish substantially the same functions, but by different specific means. The closure of the main circuit in the system of this reference closes a circuit through the armature resistance if the lever H is in the position shown in the drawing, and the further operation of the accelerator does not effect any change beyond providing another path over conductor 19 and through the lever H directly to the armature resistance. If, however, the lever H is moved to a position to engage the contact 5, the operation of the solenoid when the main switch is closed serves to first close the circuit over conductor 30, cutting out one step of the resistance, later over circuit 31, cutting out another step of the resistance, then over conductor 32, cutting out the remainder of the resistance, and finally over conductor 19 and the switch lever H. As in both the appellant's and the patentee's arrangement the further movement of the hand lever will vary the field resistance. So far as the functions are concerned, therefore, the devices are closely analogous. It has been set forth by appellant that the mechanical connections between the levers H B of the reference necessitate these parts, the starting device and the speed regulator, being mounted in proximity to each other or substantially as a single structure, whereas with appellant's wiring connection and no mechanical connection being present the starting and accelerating device may be located at any place in a building which is desirable, and the speed-regulating switch may be located near the machine to be regulated. The machine oper-

ator, as in the case of a heavy printing press, can thereby regulate the speed from his immediate knowledge of the condition of the work or the machine. Clearly this is an advantage. It is further urged by appellant that he obviates by his construction the heavy solenoid switch S of the reference, made necessary by the springs which restrain the fingers 24 25 26. Also appellant contends that once his starting device has operated, its circuit connections to the conductors 55, 57, and 59 remain closed and are not, as in the reference, disturbed by the operation of the speed-regulating lever. This latter lever can be moved back and forth to vary the speed quite independently of any operation of the starting device. Specifically the movement of the lever H of the reference simultaneously cuts current on or off of the leads 30 31 32, while in appellant's case the current remains permanently, during the period the starting device has operated, on the leads to the speed-regulator contacts.

While admitting the advantages set forth by appellant and the correctness of his statement that his mechanism presents such advantages, yet a review of the claims appealed discloses that none of them is limited to a construction which defines such advantages. The claims are, in my judgment, too broadly expressed to be allowable over this reference. The lever H, with its connections to the lever B of the reference, constitutes—

means for commutating the connections between the accelerating device and said resistance—

because this lever B controls the switches at the points 24 25 26. This lever H of the reference can be moved and independently of any effect, although possibly not independently of any operation, of the starting device. There is nothing in any of the claims to limit the connections to electric connections nor to bring out the features which define the circuit arrangement over that of the reference. As thus broadly presented the claims are believed to be unpatentable over the prior art.

The decision of the Examiners in Chief is affirmed.

EX PARTE NILES.

Decided April 11, 1922.

ANTICIPATION—ADVANTAGES IN STRUCTURE AS DISCLOSED, BUT NOT AS CLAIMED.

Where there are advantages in appellant's structure that the prior art does not disclose, but the claims are broadly drawn and define but slightly over the prior art, and where apparently the advantages claimed would not necessarily result from the slight changes recited, *Held* that the claims are not patentable.

[NOTE.—This application has resulted in Patent No. 1,438,258, December 12, 1922.]

APPEAL from Examiners in Chief.

RETORT BENCH.

Mr. K. P. McElroy for the applicant.

KINNAN, *First Assistant Commissioner:*

This is an appeal from the decision of the Examiners in Chief affirming that of the Primary Examiner denying patentability to claims 6 to 11, inclusive, of which claims 6 and 9 will serve as illustrations:

6. In a gas bench, a plurality of retorts, a heating chamber enclosing said retorts, a collecting flue on one side of said chamber and receiving hot products of combustion therefrom, a recuperator, a connection between said flue and the receiving end of said recuperator, a connection between the other end of said flue and another point in the recuperator, and an outlet conduit tapping the second mentioned connection.

9. In a furnace, a heating chamber, said heating chamber having a plurality of draft outlets, one of said outlets being connected to natural draft means, another outlet connected to forced draft means and damper means arranged in the outlets to regulate the flow of gases through said outlets independent of the draft means.

The references are: Doherty, 829,105, Aug. 21, 1906; Doherty, 1,117,172, Nov. 17, 1914; Loudon, 1,145,327, July 6, 1915.

As stated in the claims, the invention relates to an improvement in gas benches, the purpose being to obtain a more uniform distribution of the heating gases and a resulting more uniform heating of the retorts. To accomplish this result, appellant provides a pair of openings from the collecting flue or chamber, one at each end, and connects an ejector to one opening and has the other opening connected through a recuperator to the discharge stack or flue. Dampers control these openings, so as to draw or force the heating gases, more or less as necessary to keep them evenly distributed about the retorts, to one end or the other of the collector flue. The above outlines the specific construction, although all such details are not included in the broader claims. As the present practice tends toward the erection of larger and larger gas benches, with correspondingly large retorts, the necessity for an equal distribution of the heating gases as well as the difficulty of obtaining such distribution is at once apparent.

There is no dispute as to what the prior art discloses nor what appellant has added thereto. The producer gas mixed with the air heated by its passage over the recuperator passes to the retorts and from about them to a collecting chamber or flue. From this latter these gases pass through the recuperator to the stack. This is all old and well known. The patent to Doherty, No. 1,117,172, discloses this much, if the flue 13 is read as a collecting flue or chamber, as really in fact it is. Even without so reading this part of the gas bench, the collecting chambers or flues in such locations are old, as disclosed by the Loudon patent, and it was admitted at the hearing such a chamber could, without invention, be employed in a gas bench of the type disclosed in the above-noted Doherty patent. It is even old, as shown by the Loudon patent, to have two openings in what may be regarded as a collecting chamber or flue, one at each end and controlled by dampers, as indicated at 54 in such reference. The burned gases, however, all pass to the stack or to some other equivalent single outlet. There is present no balance effect of the suction from a stack and that from an ejector or injector to cooperate to produce the differential draft conditions necessary to draw or force the heating gases in proper distributing relation to the retorts, as disclosed by appellant.

The Examiners in Chief and the Principal Examiner held that the appealed claims were too broad in view of this state of the art. They considered that the collecting flue substantially present in Loudon's gas bench and the two openings with the controlling dampers there shown could be incorporated without invention in the construction of Doherty, above noted, and with the construction resulting from this change the appealed claims were met. These tribunals further held that the part 13 of the recuperator of this Doherty patent was, in fact, a collecting chamber, and the two outlets from the passage at the end of the flue 13, one at 29 leading to an ejector and the other leading through the rest of the recuperator to the stack, had the same effect as if the two outlets were at the end of the collecting flue itself. With this view they considered the claims appealed as not defining anything patentable.

Appellant urges that in practice the point of greatest heat shifts from hour to hour, due to various conditions, as wind, its force, and outdoor temperature, and that this requires constant regulation if the maximum advantages of equal distribution of the heating gases are to be obtained. Appellant further urges that with stack suction only to be relied upon the damper control is wholly inadequate, but that by withdrawing the combustion products at separated outlets and controlling the relative suction effects at these points by some suitable means, as an ejector at one outlet and the stack suction at the other, and also by providing suitable dampers, the distribution of the heating gases is under a relatively perfect control.

The advantages of such control and the fact that the prior art, as cited, does not disclose a bench capable of just such regulations are admitted. I am impressed with the view that the appealed claims do not include all the structure necessary to accomplish these advantageous results. The appealed claims are broadly drawn, and they define but slightly over the prior art, and with such slight changes as are recited in the appealed claims actually made in the prior art it is not apparent the advantages claimed by appellant would necessarily result.

Claim 6 defines from what may be said to be old merely by the statement that there is "an outlet conduit tapping the second mentioned connection." There is no statement as to where this outlet leads, nor that it might not lead again into the recuperator at some other point, as in the Loudon patent. This claim does not, therefore, seem allowable.

Claims 7 and 8 do not locate the "two outlets" with respect to each other. It is not thought if they were located side by side at the end of the flue 13 of Doherty—that is, if there were two passes or outlets from the end of this tube 13, beginning at such end and one leading to the ejector outlet 29 and the other to the stack by way of the recuperator—there would be any result obtained which would be materially superior to that obtained by the arrangement present in the reference. It is believed, however, that if these two claims state the outlets are separated a substantial distance these claims will be allowable.

Claims 9 and 10 do not define the improvement any better than claims 7 and 8, since if the Loudon connection between the collecting flue and the recuperator are adopted in the Doherty gas bench the dampers recited in these claims would be present. If amended as suggested with reference to claims 7 and 8, they may be allowed.

Claim 11 is not patentable over the prior art. The only feature relied upon to distinguish therefrom resides in the "means for directing another stream away from said recuperator." This is too vague and indefinite as to where the stream is to be directed. The mere directing of such stream away from the recuperator would not necessarily be productive of any special benefit beyond merely taking away some of the heating gases from the recuperator.

The decision of the Examiners in Chief is affirmed.

EX PARTE RHOADES.

Decided April 29, 1922.

1. ANTICIPATION—ADVANTAGES IN STRUCTURE AS DISCLOSED, BUT NOT AS CLAIMED.

Where the appellant's construction is made simpler than that disclosed in the reference and presumably its use would save time in operation, as well as cost in manufacture, and the applicant discusses the structural differences and points out the advantages accruing therefrom, but does not satisfactorily set forth why the terms of his claim are not applicable to the mechanism of the reference, and no meaning can be found in any of the terms of the claim which defines from the reference save in the use of a word which is too broad or too indefinite to carry the claim over the prior art, the claim should not be allowed.

2. CLAIMS—INDEFINITE WORDS AND PHRASES—"AUTOMATIC."

Where it is the muscular power of the operative which is transformed and stored as energy in a plunger spring, and this latter is merely an incident in a wholly manual operation, the single word "'automatically" used to define from the reference, without defining in any way the particular structure whereby the function is accomplished, is too broad or too indefinite to carry the claim over the prior art.

[NOTE.—This application has resulted in Patent No. 1,425,053, August 8, 1922.]

APPEAL from Examiners in Chief.

DOFFING DEVICE FOR SPOOLERS.

Messrs. Heard, Smith & Tennant for the applicant.

KINNAN, *First Assistant Commissioner:*

The applicant has appealed from the decision of the Examiners in Chief affirming that of the Primary Examiner denying patentability to claim 3. The claim is as follows:

3. In a spooler a yarn carrier holder, means mounted thereon to receive and hold the yarn carrier in spooling position, and means mounted in fixed position on the yarn carrier holder and acting when operated to doff the yarn carrier from said holding means and then automatically to shove it laterally.

The reference is the patent to Crane, 1,252,404, Jan. 8, 1918.

As set forth in the claim, the alleged invention relates to mechanism for doffing the yarn carriers from their holders after the yarn has been wound therefrom upon the spools. The construction is simple and has been fully explained. There seems to be no disagreement as to what is disclosed in the application or in the patent cited as a reference. The particular structure upon which appellant bases his claim of novelty resides in the hand-operated rod, which upon being pulled up by the operative slides the yarn carrier off the supporting stud and then by means of a spring-pressed plunger shoves the bobbin laterally, permitting it to fall. The spring of the plunger receives its stored energy by the movement of the rod because of the slight lateral movement given to the lower end of the rod through the pin and cam-slot arrangement.

In the construction disclosed in the reference there is involved a series of operations, all manual, in order to accomplish the same general purpose had in view by appellant. The latter's construction is much simpler, and presumably its use would save time in operation as well as cost in manufacture.

[1] Appellant has presented an excellent discussion of the structural differences between the mechanism of the reference and that of the application, but he has not set forth in very satisfactory manner just why the terms of his claim are not applicable to the mechanism of the reference. Appellant refers to his "single means" and points out the advantages accruing from such simple arrangement, but such words are not found in his claim. He also argues as to the advantages of a "single operation," but there is nothing in his claim which would preclude the doffing means having a dozen such operations. The limitation sought to be placed upon the claim by the terms "fixed position" must be interpreted in view of appellant's construction, wherein the means must have a reciprocatory as well as a slight lateral movement on the holder. It is true the doffing means of Crane has relatively a somewhat greater range of movement, but there is nothing in the language of the claim to define in this particular. Neither the Examiners in Chief nor the Primary Examiner found any meaning in any of the terms of the claim which define from the reference in any way save in the use of the word "automatically." It was their view that such a single word without defining in any way the particular structure whereby this function was accomplished was too indefinite or too broad to carry the claim over the prior art. It is believed this view is sound.

[2] Appellant cites certain adjudicated cases in support of his contention, but they do not appear to have been based upon an analogous state of facts. The holding in the American Roll Gold Leaf Company case, cited by appellant, referred to certain distinctions between hand-operated devices and those operated automatically by the machine. This is not the situation in the case at bar. The doffing means is wholly hand operated. It obtains no operative power from the machine. The operative merely pulls up the rod, and the plunger spring stores energy by virtue of the lateral movement of the lower end of the rod. In the sense in which the court was discussing the term "automatic" there is no analogy to appellant's construction. So in the Revolving Door case the court refers to the door release operating "without the interposition of the human agent." Nothing like that is present in the case at bar, since it is the direct interposition of the human agent that performs the whole operation. It is the muscular power of the operative which is transformed and stored as energy in the plunger spring, and this latter is, further, merely an incident in a wholly manual operation. I am satisfied the claim is not properly distinguished from the reference.

The change in the claim proposed by appellant would not render it any more acceptable. If, however, appellant chooses to so limit it by inserting before the word "then" in the last line some such expression as *cooperating mechanism placed in operative condition by such doffing operation to*, and also suitably changing the remainder of the claim to make it intelligible, such claim will be allowable.

The decision of the Examiners in Chief is affirmed.

EX PARTE DOEHRING.

Decided July 18, 1922.

FEES—RETURN OF—MISTAKE.

Where an application has been filed complete, as to its parts, and the Office has taken the time of its employees to record the case, give it a date and number, and assign it to the examining division, and the clerk of the division has entered the record of the case upon the books, and there has been no such mistake in paying the fee, as, for example, that the fee was not due, the fee will not be returned upon representation by the applicant that the case was filed "through a clerical error" and because "the case is not in proper shape for prosecution."

ON PETITION.

POWER ATTACHMENT FOR PIPE DIES.

Messrs. Mason, Fenwick & Lawrence for the applicant.

KINNAN, *First Assistant Commissioner:*

The applicant petitions that this application, drawing, and fee be returned because the case was filed "through a clerical error" and because "the case is not in proper shape for prosecution."

Section 4934, Revised Statutes, requires that a fee be paid upon the filing of each application, and there is no provision for the return of that fee unless it was paid by mistake. The mistake which will warrant the return of money is not a mistake of judgment, but a mistake in making the payment itself. This application was filed complete, as to its parts, and the Office has taken the time of its employees to record the case, give it a date and number, and assign it to the examining division, and the clerk of the latter division has entered the record of the case upon the books. It is not thought there has been any such mistake as will warrant the return of either the application or the fee. A mistake which warrants the return of the fee should be a mistake, as for example, that the fee was not due.

The foregoing is in accordance with previous holdings of the Office. (*Ex parte Olsen*, 101 O. G., 2079; *Ex parte Weithaler*, 173 O. G., 864; *Ex parte Giles* 190 O. G., 864.)

The petition is denied.

EX PARTE WITHEBELL.

Decided December 29, 1922.

INVENTION—PROCESS—SUBSTITUTION OF EQUIVALENT STEP.

Where the patent to J. shows that it was old to stretch a dry stocking on a form, then moisten it, and finally dry it on the form and where the patent to N. shows that it was also old to place heated stockings on a form and dry them by heated clamps, but does not state whether they are dry when placed on the form or whether they are subsequently dampened, *Held* that it is obvious that J. could employ the step of drying by heated clamps without involving invention.

[NOTE.—This application has resulted in Patent No. 1,466,868, September 4, 1922.]

APPEAL from Examiners in Chief.

DEVICE FOR AND METHOD OF SHAPING AND PRESSING FABRICS.

Mr. S. Geo. Stevens and *Mr. Charles R. Wright, jr.*, for the applicant.

KINNAN, *First Assistant Commissioner:*

This is an appeal from the decision of the Examiners in Chief affirming that of the Primary Examiner denying patentability to the following claim:

3. The herein described method of pressing and shaping a plurality of garments, of first shaping the garments successively while dry and passing them one at a time through a dampening zone into a heating and pressing zone.

The references are:—Collis, 1,114,966, Oct. 27, 1914; Viets and Shaw, 163,317, May 25, 1875; Nelson, 738,204, Aug. 29, 1905; Jennings, 234,286, Nov. 9, 1880.

The appealed claim sets forth a method of pressing and shaping a plurality of garments. In practice these are referred to as hosiery. The apparatus employed consists in a general way of a plurality of radially-arranged forms on each of which a stocking is drawn while dry and mechanism arranged to rotate the shaft carrying these radial arms in a quarter-revolution step-by-step manner. The steam is injected against the stocking, and at the next step the stocking is brought between two heated pressing clamps and suitably pressed. A further step places the stocking thus dried and pressed in position to be removed from the form by the operator.

Appellant's method comprises three steps: shaping the garments while dry, dampening them, and thereafter pressing them by heated means. All these steps are but those usually followed in pressing garments. The laundress smooths out by hand, dampens, and then irons a garment.

Although the Examiners in Chief relied upon two references, yet other patents were cited by the Primary Examiner during the prosecution before him of the case. Considering all these references, the following seems to be satisfactorily disclosed; Jennings shows it to be old to shape a garment on a form while dry, thereafter moistening it, and, as a substitute for pressing, drying it by heat. These three steps are taken in the order set forth in the appealed claim. Nelson discloses an apparatus for accomplishing the same general purpose had in view by appellant and provides forms upon which stockings are placed to shape them and means for moving the stockings step by step to heated presses, where they are suitably dried and pressed. The patentee does not state whether the stockings are dry when placed on the forms or whether they are subsequently dampened. Obviously the process set forth in the appealed claim could be carried out by the apparatus of this patentee if provision were made for spraying the stockings before they reached the heated presses. Collis discloses an apparatus by means of which the stockings are placed upon the forms while damp and are then moved step by step to drying positions. This patentee does not disclose means for pressing, but employs the drying of the articles upon their forms. The patent to Viets and Shaw discloses the process of placing the garment while dry upon a form, and thus shaping it, and thereafter dampening it simultaneously with the act of pressing.

With this state of the art clearly disclosed the full knowledge and practice of the steps of shaping a garment while dry on a form, moistening or dampening it, pressing it, or, as an alternative, drying it on the form, was possessed by those familiar with this art prior to appellant's entry into the field. It would seem, therefore, that there was no inventive concept in merely performing these three operations set forth in the appealed claim in the order described. Jennings stretches the dry garment on a form, then moistens it, and finally dries it on the form, the last-named operation being a substitute for pressing by heated clamps. It is believed obvious enough, especially in view of Nelson's heated clamps, that Jennings could employ the step of drying by heated clamps without involving any invention.

The construction of the machine to perform such an operation is not involved in the claim, but merely the performance of these steps in the order recited. It is likewise believed to involve nothing inventive to employ the Collis apparatus in such manner as to anticipate the appealed claim when Jennings has taught the advantage to be derived from placing an article while dry upon the form and subsequently dampening it.

I am unable to discover merit in the more restricted claim which appellant submits as a substitute for the appealed claim 3. This claim covers more nearly the function of the machine and, aside from this, involves but the same steps, very old in this art, set forth in the claim which was denied patentability by the tribunals below.

The decision of the Examiners in Chief is affirmed.

EX PARTE BEEHLER.

Decided October 26, 1923.

1. DESIGNS—INVENTION.
   There should be some invention involved in order to create patentability in a design.
2. SAME—ORIGINALITY AND BEAUTY.
   Patents for designs were intended to encourage the decorative arts, and no patent can be issued for a design unless it possesses both originality and beauty.

APPEAL from the Examiners in Chief.

DESIGN FOR PORTABLE CANOPY FOR USE AS A MOSQUITO OR FLY SCREEN.

Mr. Fenelon B. Brook for the applicant.

KINNAN, *First Assistant Commissioner:*

The applicant has appealed from the decision of the Examiners in Chief affirming that of the Examiner of Designs denying patentability to the claim for the design.

The reference is patent to Webber, No. 709,528, Sept. 23, 1902.

While the matter is not pertinent to the issue involved in this appeal, since the only question here raised is whether the claim for appellant's design should be allowed, yet in view of applicant's brief in which he sets forth that—

> there seems to have been in recent years a decided change of attitude of the Patent Office toward the previous practice under the design patent statutes,

it may be stated that the present practice of the Office is not materially different from that existing for many years past. It is the purpose of the Office to conform in its rulings with the statute and the various decisions of the Court of Appeals, District of Columbia, and the circuit courts interpreting the law. It is the purpose, also, to give an applicant the benefit of any serious doubt raised in any given case. The spirit of the decision of the Circuit Court of Appeals, Second Circuit, in *Dominick & Haff* v. *R. Wallace & Sons Mfg. Co.* (209 Fed. Rep. 223), is recognized and approved in this Office. However, there are many adjudicated cases which must be had in mind before deciding whether a given design is patentable.

Appellant discloses a canopy with its support in all respects similar to that disclosed in the patent to Webber except as to the cross struts and the central connecting rod. It is obvious from an inspection of this structure that these struts or diagonal braces and the connecting rod at the top are primarily for the mechanical advantage of permitting thinner lighter metal ribs or supports.

[1] The statute, section 4929, as appellant well sets forth, defines a patentable design to be—

> any new original and ornamental design for an article of manufacture—

which any person has "invented." There can be little doubt that courts have insisted there should be some invention involved in order to create patentability in a design. The Circuit Court of Appeals, Second Circuit, states—

> the test of invention for design patents is the same as for mechanical patents. (*Whitney Mfg. Co.* v. *Alvin Silver Co., Inc.*, 283 Fed. Rep. 75.)

This same court held a design patent for an ornamental electric-lighting fixture "invalid for lack of invention." (*Bayley & Sons, Inc.*, v. *Standart Glass Co. et al.*, 249 Fed. Rep. 478; 252 O. G. 504.) The court of appeals, D. C., held a design for a shade reflector unpatentable in view of the prior art, since it would not require invention to substitute for the spiral ribs on the shade of the same shape appearing in the catalogue cited the parallel ribs shown in applicant's prior patent. (*In re Mygatt*, 188 O. G. 1055; 39 App. D. C. 432.) Of interest in connection with the views of the district court of appeals are the decisions *in re Schraubstadter* (120 O. G. 1167; 26 App. D. C. 331), *in re Sherman* (154 O. G. 839; 35 App. D. C. 100), and *in re Tournier* (94 O. G. 2166; 17 App. D. C. 481). The Circuit Court of Appeals, Sixth Circuit, has stated the exercise of inventive faculty, as well as originality and beauty, are all essential to the patentability of a design. (*Charles Boldt Co.* v. *Nivison-Weiskopt Co.*, 194 Fed. Rep. 871.)

Applying the law as above explained to applicant's case, it is believed there is wanting any inventive concept in adding diagonal braces to an otherwise old device. These struts are not very different from those found in an umbrella when it is in raised position. Such devices can be added in a number of different positions without involving anything of an inventive nature.

[2] Appellant has urged that there is a pleasing original effect produced by the presence of these diagonal braces as seen through the diaphanous canopy when the observer moves past or around the canopy. It is believed such effect can not be very marked, since the canopy is not to be whirled around, but is moved past the observer or the latter moves past the canopy at such a slow speed as to render the wheellike effect not very pronounced, if noticeable at all. It would seem the general appearance of the canopy, the picture presented to the eye, is substantially the same as that of the reference. What beauty would be present would be also in the canopy of the anticipating patent. As was said by the Circuit Court of Appeals, Ninth Circuit, patents for designs were intended to encourage the decorative arts, and no patent can be issued for a design unless it possesses both originality and beauty. (*Faris et al.* v. *Patsy Frok & Romper Co.*, 273 Fed. Rep. 900.) The reference is exceedingly pertinent, and it is thought the view of the Examiners in Chief that appellant's design is not characterized by any features of artistic merit such as are contemplated by the statute is correct.

The decision of the Examiners in Chief must be and is affirmed.

LONGTIN v. TRUDEL AND DAWSON v. PIGEON.

Decided November 30, 1923.

INTERFERENCE—DISSOLUTION—ESTOPPEL BY FAILURE TO PRESENT AMENDMENT UNDER RULE 109.

Where an interference was dissolved on the ground that the issue was unpatentable and no appeal was taken and no effort was made under rule 109 to procure amended counts in the interference, *Held* that a new interference involving the same parties and based on narrower claims presented ex parte to overcome the objection to the counts of the first interference was properly dissolved, although the applications involved were involved in a series of interferences and there was nothing to indicate that either party had spent money in commercial development.

APPEAL from Examiners in Chief.

CIRCULAR-KNITTING MACHINE.

Messrs. Fraley & Paul and *Messrs. Sturtevant & Mason* for Longtin.

Messrs. Roberts, Roberts & Cushman and *Messrs. Howson & Howson* for Trudel and Dawson.

Messrs. Fraley & Paul for Pigeon.

FENNING, *Assistant Commissioner:*

This case comes before me on appeals by Longtin and by Pigeon from the action of the Examiners in Chief affirming the decision of the Law Examiner granting the motion of Trudel and Dawson to dissolve the interference. In an earlier interference, No. 43,143, between the parties herein, declared February 18, 1919, three issues were involved. In August, 1919, a motion to dissolve was filed by Trudel and Dawson on the ground that the claims were unpatentable. In March, 1920, the Law Examiner held the claims unpatentable. No appeal was taken. Longtin and Pigeon, ex parte, filed amendments in an endeavor to overcome the objection to the counts of the interference, although no effort had been made under rule 109 to procure amended counts in the interference itself. After additional amendments the claims were indicated allowable in the Longtin and Pigeon applications and suggested to Trudel and Dawson for purposes of interference. The present interference was declared May 18, 1920.

The decision below dissolving the present interference was clearly justified by *White, Overlin and Bullington* v. *Ovaitt* (308 O. G. 449).

It is urged that the case cited is not applicable here because the applications here involved are involved in a series of interferences of which this is "M," and that consequently none of the parties should have believed that he was free of interference. That does not, however, overcome the fact that as to the present issues, which if patentable might have been brought into the previous interference between the present parties under rule 109, the parties were justified in believing that they would not be subject to further attack.

The mere fact that there is nothing to indicate that either party has spent money in commercial development is immaterial; nor is it of moment that the counts of the present interference are narrower than the counts of the original interference, if that is a fact.

The Examiners in Chief are affirmed.

Court of Appeals of the District of Columbia.

ROBERTSON, COMMISSIONER OF PATENTS (R. S. HOWARD CO. INTERVENER), v. UNITED STATES EX REL. BALDWIN CO.

Submitted January 5, 1923; decided February 5, 1923.

[287 Fed. Rep. 942.]

1. TRADE-MARKS AND TRADE NAMES AND UNFAIR COMPETITION—TRADE-MARK PROCEEDINGS ARE ALL STATUTORY.
   The registration of trade-marks, opposition to registration, cancellation of registration, and interference proceedings are all governed by statute, and the solution of any question which arises with respect to those matters must be in harmony with the terms of the statute.
2. SAME—TRADE-MARK ACT DOES NOT AUTHORIZE SUIT TO RESTRAIN CANCELLATION OF TRADE-MARK AFTER ADVERSE DECISION ON APPEAL—"PROCEEDINGS."
   Trade-Mark Act, section 9 (Comp. St. sec. 9494), giving an appeal from a decision of the Commissioner of Patents in proceedings for the cancellation of the registration of a trade-mark, on complying with the conditions required in case of an appeal by an applicant for a patent, and providing that the same rules of practice and procedure shall govern in every stage of such proceedings, refers only to the proceedings on appeal in patent cases and does not entitle a trade-mark owner to bring suit in equity after an adverse decision on such appeal, as is permitted in patent cases by Revised Statutes, sections 4914, 4915 (Comp. St. secs. 9459, 9460).
3. SAME—REGISTRATION CREATES ONLY REBUTTABLE PRESUMPTION OF OWNERSHIP.
   The registration of a trade-mark gives no property right in the mark, which must depend on acquisition by prior use, but only is prima facie evidence of ownership, under section 16 of the Trade-Mark Act (Comp. St. sec. 9501).
4. COURTS—OPINION MUST BE CONSTRUED WITH REFERENCE TO FACTS INVOLVED.
   In construing the opinion of a court reference must be had to the facts involved and to the question to which the court's mind was directed in formulating the decision, so that a statement by the Supreme Court in dismissing a writ of error from the court of appeals of the district in a trade-mark proceeding, on the ground that the decision of the court of appeals was not final, to the effect that Revised Statutes, section 4915 (Comp. St. sec. 9459), gave the claimant of the trade-mark a remedy by suit in equity, which was not necessary for the decision, is not binding on the court of appeals, especially in view of a different statement in a later decision.

APPEAL from the Supreme Court of the District of Columbia.

Suit by the United States, on the relation of the Baldwin Company, against Thomas E. Robertson, as Commissioner of Patents, to restrain the defendant from canceling trade-marks in accordance with a decision of the Court of Appeals of the District of Columbia, in which the R. S. Howard Company intervened, opposing the relief. From an order denying a motion to dismiss the bill and granting a preliminary injunction, the defendant and intervener specially appeal. Reversed and remanded, with instructions to dismiss the suit.

Mr. Samuel S. Watson and *Mr. T. A. Hostetler* for the appellants.

Mr. F. D. McKenney, Mr. J. S. Flannery, and *Mr. John E. Cross* for the appellee.

Before SMYTH, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

SMYTH, *C. J.:*

The Baldwin Company claimed to be the owner of two trade-marks, used on pianos, which were registered in the Patent Office. Two proceedings to have the marks canceled were instituted by R. S. Howard Company, one of the appellants. Relief was denied it by the Commissioner of Patents, but on appeal to this court his decision was reversed, and the Commissioner was so advised, as provided by statute. (33 Stat. 727, sec. 9; Comp. St. sec. 9494; sec. 4914 et seq., Revised Statutes: Comp.

St. sec. 9459 et seq.) From our action the Baldwin Company appealed to the Supreme Court of the United States, and also prayed for writs of certiorari.

The appeals were dismissed and the writs of certiorari denied, for the reason that our decision was not final. (Judicial Code, secs. 250, 251 et seq.; Comp. St. secs. 1227, 1228 et seq.) Thereupon the Baldwin Company filed its bill in equity against Hon. Thomas E. Robertson, as Commissioner of Patents, in the supreme court of the District, basing its right to do so upon section 9 of the trade-mark statute (33 Stat. 727), and sections 4914 and 4915 of the Revised Statutes. The bill as amended sought to restrain the Commissioner from canceling the marks in accordance with our decision, and prayed that, pending the final disposition of the case, he be enjoined from canceling them. On its petition the R. S. Howard Company was permitted to intervene. The Commissioner of Patents and the latter company filed separate answers. The Commissioner asserted, among other things, that he was bound by the decision of this court. The Howard Company went into its case with much elaboration, and then moved to dismiss the amended bill on several grounds, among them being one to the effect that the court was without authority to grant the relief asked for, or any relief in the premises. The motion having been overruled, a preliminary injunction went out, restraining the Commissioner of Patents as prayed, and the Howard Company brought the case here for our review by special appeal. (27 Stat. 436 Comp. St. sec. 1227.)

[1] The case turns upon the jurisdiction of the supreme court of the District to entertain the suit. Registration of trade-marks, opposition to registration, cancellation of registration, and interference proceedings are all governed by statute. (33 Stat. 724 et seq.; Comp. St. sec. 9485 et seq.) The solution of any question which arises with respect to these matters must be in harmony with the terms of the statute. (*Lincoln* v. *Virginia Portland Cement Co.*, 258 Fed. 505; 49 App. D. C. 33; *Moore* v. *United States*, 249 U. S. 487; 39 Sup. Ct. 322; 63 L. Ed. 721; 264 O. G. 160; *United States* v. *Temple*, 105 U. S. 97; 26 L. Ed. 967.) If there is no statutory authority for bringing the suit, then the action of the lower court must be reversed and the amended bill dismissed.

[2] It is asserted by the Baldwin Company that section 9 of the Trade-Mark Act and sections 4914 and 4915, Revised Statutes, supra, when considered together, authorize the suit. Section 9 says that if a—

> party to an application for the cancellation of the registration of a trade-mark is dissatisfied with the decision of the Commissioner of Patents, he may appeal to the Court of Appeals of the District of Columbia, on complying with the conditions required in case of an appeal from the decision of the Commissioner by an applicant for patent, or a party to an interference as to an invention, and the same rules of practice and procedure shall govern in every stage of *such proceedings*, as far as the same may be applicable. (Italics supplied.)

When this court was organized in 1893 (27 Stat. 434), the determination of appeals from the decisions of the Commissioner of Patents, then vested in the Supreme Court of the District of Columbia, was transferred to this court. (27 Stat. 436, sec. 9.) Section 4914, Revised Statutes, provides that, when this court determines an appeal from the Commissioner of Patents in patent cases, it—

> shall return to the Commissioner a certificate of its proceedings and decision, which shall be entered of record in the Patent Office, and shall govern the further proceedings in the case,

and adds:

> But no opinion or decision of the court in any such case shall preclude any person interested from the right to contest the validity of such patent in any court wherein the same may be called in question.

Section 4915 says that, whenever a patent is refused by the Commissioner of Patents or by this court,

> the applicant may have remedy by bill in equity; and the court having cognizance thereof, on notice to adverse parties and other due proceedings had, may adjudge that such applicant is entitled, according to law, to receive a patent for his invention, as specified in his claim, or for any part thereof, as the facts in the case may appear,

and that such adjudication, if in favor of the right of the applicant, shall authorize the Commissioner to issue a patent to him when he has complied with certain other requirements of the statute.

It will be observed that section 9 of the trade-mark statute, supra, so much relied upon by the Baldwin Company, deals with appeals from the Commissioner of Patents to this court, and declares that the rules of practice and procedure in patent cases shall govern in every state of "such proceedings" as far as they may be applicable. What proceedings? Clearly, the proceedings followed in taking the appeals just mentioned. There is nothing in it which purports to deal with what shall happen after an appeal has been determined. Section 4914 says that no decision by this court shall preclude any person interested from the right to contest the validity of a patent "in any court wherein the same may be called in question." This relates to something that may take place after the decision of this court, and has no relation to proceedings in an appeal from the Commissioner to this court. And what is said with respect to this section may also be said with respect to section 4915, which deals with patent cases after they have been disposed of by this court or by the Commissioner in case no appeal is taken to this court. There is nothing in it which relates to an appeal from the Commissioner to this court, and therefore it cannot affect "such proceedings." Besides, Congress has provided by section 22 of the trade-mark statute (33 Stat. 729; Comp. St. sec. 9507) for proceedings in equity after a case has been finally disposed of by this court. It is there declared that:

> Whenever there are *interfering registered trade-marks*, any person interested in any one of them may have relief against the interfering registrant, and all persons interested under him, by suit in equity against the said registrant. (Italics ours.)

But no provision is made for a suit in equity in a case such as the one before us. Does not this call for the application of the maxim, "Expressio unius est exclusio alterius"?

There is a good reason why Congress should have provided for equitable relief in patent cases as it has done in section 4915 without making a like provision for trade-mark cases. If the section did not exist, the applicant for a patent would be concluded by the decision of this court holding that his invention was not patentable. He might manufacture and put it on the market, and successfully defeat any one who might charge him with being an infringer, but he could not obtain a monopoly himself. (*Brown* v. *Duchesne*, 19 How. 183; 15 L. Ed. 595; *Dable Grain Shovel Co.* v. *Flint*, 137 U. S. 41; 11 Sup. Ct. 8; 34 L. Ed. 618; 53 O. G. 1093.) Against his will his invention could be made and vended by anybody with impunity. Moreover, a patent conveys a property right to the inventor. (*Imperial Cotto Sales Co.* v. *N. K. Fairbanks Co.*, 270 Fed. 686; 50 App. D. C. 250; 284 O. G. 961; *Shaw* v. *Cooper*, 7 Pet. 292; 8 L. Ed. 689; *Cammeyer* v. *Newton*, 94 U. S. 225; 24 L. Ed. 72; 11 O. G. 287.) To be denied a patent is to be denied this right, which may be very valuable.

[3] In the case of a trade-mark the situation is entirely different. The registration of a mark conveys no property right (*Sarrazin* v. *W. R. Irby Cigar & Tobacco Co.*, 93 Fed. 624; 35 C. C. A. 496; 46 L. R. A. 541; 88 O. G. 387; *Hanover Star Milling Co.* v. *Allen & Wheeler Co.*, 208 Fed. 513; 125 C. C. A. 515; L. R. A. 1916D, 136; *Andrew Jergens Co.* v. *Woodbury, Inc.*, D. C., 273 Fed. 952, 965) and its cancellation takes none away. Ownership of the mark depends upon its adoption and use, not on its registration. (*Columbia Mill Co.* v. *Alcorn*, 150 U. S. 460; 14 Sup. Ct. 151; 37 L. Ed. 1144; *Phillips* v. *Hudnut et al.*, 263 Fed. 643; 49 App. D. C. 247; 273 O. G. 629.) The only effect of the registration is to raise a rebuttable presumption in favor of the registrant's ownership. Section 16 of the Trade-Mark Act says that the registration of a trade-mark shall be prima facie evidence of ownership. (33 Stat. 728; Comp. St. sec. 9501.) If, in a contest between a registrant and one who is using the same mark upon the same class of goods, the latter can establish that he is the owner of the mark, the registration of it will avail the other party nothing. The right to a patent originates in the statute. The right to a trade-mark exists independently of a statute and comes into existence by reason of its adoption and use. (See authorities ante.) Under section 4915 the inventor may secure a monopoly of his invention, which he could not otherwise obtain; but the owner of a trade-mark could secure nothing which he did not have before, except a presumption which might be overturned by proof. The one would gain much; the other very little. There is a reason, then, for section 4915 with respect to patents, but little reason for it with respect to trade-marks. To our mind these things indicate why section 4915 does not apply, either directly or by reference, to trade-mark cases.

The Baldwin Company, however, contends that its right to maintain the bill is no longer open to discussion, because the Supreme Court of the United States has settled the matter in *Atkins & Co.* v. *Moore* (212 U. S. 285; 29 Sup. Ct. 390; 53 L. Ed. 515; 142 O. G. 571, and *Baldwin Co.* v. *Howard Co.*, 256 U. S. 35; 41 Sup. Ct. 405; 65 L. Ed. 816). (The last case was the one between the parties to this suit when they were before the court on the appeals.) Of course if this contention be sound, that ends the contest so far as this court is concerned. We have but one duty in the premises, and that is to follow those decisions.

[4] In construing the opinion of a court reference must be had to the facts involved, and to the question to which the court's mind was directed when formulating the decision (*Cohens* v. *Virginia*, 6 Wheat. 264; 5 L. E. 257; *Plumley* v. *Massachusetts*, 155 U. S. 461, 471; 15 Sup. Ct. 154; 39 L. Ed. 223; *Harriman* v. *Northern Securities Co.*, 197 U. S. 244, 291; 25 Sup Ct. 493; 49 L. Ed. 739.) In the Atkins case it appeared that Atkins & Co. made application for registration of a trade-mark in the Patent Office. The application was denied, and on appeal to this court the decision was affirmed. An appeal and writ of error were allowed by the Supreme Court of the United States. The Court dismissed both, on the ground that our order affirming the decision of the Commissioner was not final. In support of its conclusion the Court called attention to its decision in *Frasch* v. *Moore* (211 U. S. 1; 29 Sup. Ct. 6; 53 L. Ed. 65; 137 O. G. 230), in which it was held that our decisions on appeals from the Patent Office are interlocutory and not final; also to the decision in *Gaines* v. *Knecht* (212 U. S. 561; 29 Sup. Ct. 688; 53 L. Ed. 652), where a ruling to the same effect was made. After quoting with approval from our decision in *Gaines* v. *Knecht* (27 App. D. C. 530, 532; 123 O. G. 657), the Court said that, in the light of the various details of the act of February 20, 1905 (Trade-Mark Act), and of the specific provisions of section 9, to which we have already called attention, it was of the opinion that proceedings under the act were governed by the same rules of practice and procedure as in the instance of patents, and the writ of error was accordingly dismissed. Then it added that under section 4914, Revised Statutes, supra, no opinion or decision of the court of appeals on appeal from the Commissioner precludes any person from the right to contest the validity of such patent in any court wherein the same may be called in question, and that by section 4915 a remedy by bill in equity is given where a patent is refused, and that it regarded these provisions as applicable in trade-mark cases under section 9 of the act of February 20, 1905.

That the act of February 20, 1905, makes it clear that the decisions of this court in trade-mark cases are not final is beyond question. (See sec. 16.) But the thing which makes trouble is the observation that the Court regards the pro-

visions of section 4915 applicable in trade-mark cases under section 9 of the act of February 20, 1905. We do not think that the Court was considering anything but the question as to whether or not the decision of this court was final. That was the point before it and the one on which the thought of the Court was centered. The provisions of the Trade-Mark Act, especially section 16, furnished ample authority for the conclusion which it had reached. The Court had no occasion to determine whether section 4915 gave a defeated applicant for registration the right to commence a proceeding in equity, and we do not think it intended to so decide. In this we are supported by a statement in the last opinion of the Court upon the subject. (*Baldwin Co.* v. *Howard Co.*, supra.) Mr. Justice Day, who spoke for the Court in that case, after referring to the decisions in the Frasch, Atkins, and Gaines cases, wherein the various statutory sections about which we have been writing were referred to, said:

> No provision is made which permits this statutory proceeding to be carried beyond the decision of the Court of Appeals of the District of Columbia, the decision of which court is directed to be certified to the Commissioner of Patents.

The statutory proceeding referred to is the one relating to the registration of trade-marks, the decisions of the Commissioner touching the same, and the review of his decisions by this court. This proceeding, according to the learned justice, cannot be carried beyond the decision of the court of appeals. In other words, the questions of registration, cancellation, opposition, and interference in trade-mark cases are ended by our decision. The only thing decided in such a proceeding is as to whether or not the mark shall be registered, or, having been registered, whether or not it shall be canceled. The effect of the registration, as we have seen, is simply to provide a rule of evidence which, under section 16, supra, casts upon him who would attack the right of the registrant to the mark the burden of establishing his claim in an infringement, unfair competition, or other proper proceeding. We think the Court had this in mind when it said that there was no authority for carrying the statutory proceeding beyond the decision of the court of appeals.

Believing that there is no authority for the maintenance of this suit, we reverse the decision appealed from and remand the case, with instructions to dismiss the suit; costs to be assessed against appellee.

Reversed and remanded.

ROSS, *J.* (dissenting):

Section 9 of the Trade-Mark Act of February 20, 1905 (33 Stat. 724), authorizes an applicant for registration of a trade-mark, a party to an interference as to a trade-mark, a party who has filed an opposition to the registration of a trade-mark, or a party to an application for the cancellation of the registration of a trade-mark to appeal from the decision of the Commissioner of Patents to this court, on compliance with conditions incident to an appeal by an applicant for patent or a party to an interference, as to an invention, and it is further provided that—

> the same rules of practice and procedure shall govern in every stage of *such proceedings*, as far as the same may be applicable.

Were this an open question, the force of the argument of my associates would lead me to their conclusion that the provision last quoted refers only to proceedings in this court, and that view would be further strengthened by the specific provisions of section 22 of the Trade-Mark Act, which apparently were intended to restrict and limit the right to equitable relief to parties to "interfering registered trade-marks." However, as I read the opinion of the Court in *Baldwin Co.* v. *Howard Co.* (256 U. S. 35, 39; 41 Sup. Ct. 405; 65 L. Ed. 816), it there is intimated that section 4915, Revised Statutes authorizes a remedy by bill in equity in a case like the present. Therefore, while it is quite possible that, when the provisions of section 22 of the Trade-Mark Act are brought to the attention of the Supreme Court and a definite ruling invoked, the conclusion reached by my associates will be approved, I now feel constrained to give full force and effect to the suggestion in the Howard case and to dissent here.

Appeal to United States Supreme Court allowed March 12, 1923, and bond to act as supersedeas fixed at $300.

U. S. Circuit Court of Appeals—Seventh Circuit.

NIELSEN ET AL. v. LIBBY, MCNEILL & LIBBY.

Decided September 28, 1922; rehearing denied November 3, 1922.

[285 Fed. Rep. 353.]

PATENTS—1,268,601 AND 1,268,602, FOR LIQUID MIXER, HELD VOID FOR WANT OF INVENTION.

The Nielsen patents, Nos. 1,268,601 and 1,268,602, for tank for mixing liquids, *Held* void for want of invention, in view of the prior art.

APPEAL from the District Court of the United States for the Eastern Division of the Northern District of Illinois.

Suit in equity by Niels D. Nielsen and another against Libby, McNeill & Libby for infringement of a patent. From a decree dismissing the bill (271 Fed. 317), complainants appeal. Affirmed.

Mr. F. O. Richey and *Mr. Chas. A. Brown* for the appellants.

Mr. Frederick F. Church for the appellee.

Before ALSCHULER, EVANS, and PAGE, Circuit Judges.

PAGE, *Cir. J.*:

Appellants base their right to relief and the reversal of the decree of the district court, dismissing their bill, upon the claim that by an invention covered by the two Nielsen patents in suit, Nos. 1,268,601 (here called 601) and 1,268,602 (here called 602), they have attained new results in the mixture of liquids by so placing a propeller in a tank that that which is said to be the usual action of a propeller, viz, the throwing of the bulk of the liquid, coming in contact with the propeller, horizontally across the tank, is at times reversed. Appellants' claim as to the matters here involved is in part as follows. They say:

> The preferred form of the invention is illustrated in the drawings of Patent No. 1,268,602, and as all the claims in suit read on this structure * * * we will describe this particular embodiment. The vertical walls are cylindrical and the bottom is saucer or dished shaped. At a position adjacent the junction of the side walls and the bottom, a propeller shaft projects through and terminates closely adjacent the walls. A propeller is mounted on the end of the shaft near the side walls and bottom. * * * The propeller tends to set up what have been known as direct or thrust currents, which flow directly out from the propeller in the manner of what is known as the race from a boat propeller. The propeller also operates as a centrifugal pump, discharging water at the ends of the blades. * * * The material which naturally accumulates in the central part of the tank is drawn into the propeller and projected in a flat stream against the bottom and side walls to be heated or cooled. What takes place beyond these primary actions is not known for certain. We do know that at times the contents are sucked in from in front of and at the center of the propeller. It is not improbable that the propeller at times operates alternately as a centrifugal pump and as a propeller. It is very certain that at times it is operating both as a centrifugal pump and a propeller. These currents are then deflected by the curved bottom and side walls, so that they become effective to perform these functions and to continue the cycle without eddies or dead spots over and over so long as the propeller rotates.

The defenses urged are: (1) that the matter shown and claimed is old in the art; (2) the subject matter does not amount to patentable invention; (3) the divisional patent 602 is void for double patenting; (4) noninfringement. The district court, because of the state of the prior art, dismissed the bill.

The original device, embodying the invention of the patents was, as shown in Exhibit UU, an ordinary milk can, with a saucer bottom. Into the side of the can was inserted a shaft, on the end of which were two straight paddles or blades that appear to have neither pitch nor twist. From tip to tip the two blades measure over one-third the width of the can. The inner edge of the blades extends into the can one-sixth of its width, and in their revolutions come near the can's bottom.

In the drawings of 601 the container has a saucer-shaped bottom, and in 602 has an inverted saucer bottom; but the so-called propellers are apparently much smaller and of a different construction. The milk can and other similar containers, with bottoms dished either up or down, are very old. The so-called propeller is old. The use of a revolving paddle as a mixer, in a round dished bottom, and other forms of containers, dates back many years. Marchand, No. 273,569, 1883; Boult, British, No. 21,912, 1900; Mauldin, No. 1,057,567, 1913; Nelson (Nielsen) No. 672,454, 1901. We are of opinion that the district court, for the reason stated, properly dismissed the bill.

But it is strenuously urged that appellee's invention utilizes the phenomenon described by Barnaby in his book on Marine Propellers, viz:

> If a screw propeller is placed behind a bluff stern, so that its supply is imperfect, it will draw water in at the center of the driving face and throw it off round the tips of the blades, exactly like a centrifugal pump.

In other words, the claim is made that Nielsen discovered that, by placing a propeller close to the side and bottom walls of a container, it would at times operate as a centrifugal pump and produce unusual radial currents, not before known and utilized.

The only reasons disclosed in the specifications for placing the so-called propeller near the side and bottom are twofold, viz: (*a*) To produce a greater angle of deflection; (*b*) so that effective results may be obtained, even though the contents of the tank are greatly reduced. In argument it is said:

> The mode of operation consists of the following steps: (1) the creation of the radial currents or centrifugal flow; and (2) the control of such currents after production. The latter step is accomplished through the agency of the side and bottom walls, which deflect the currents toward the opposite side of the tank or upward in the tank. There is no dispute of this latter mode of operation. It is, however, just as important as the first.

Here are two influences: one, the inactive container walls, that merely stop and throw back, or deflect, the currents thrown against them; the other, the creation of those currents radial or otherwise, is the active work of the so-called propeller. The testimony in the record as to the character of currents produced and the tests made in the presence of the court were unsatisfactory.

There are several kinds of propellers, but only two to which the use made by appellants of their so-called propeller can have any relation, viz: (*a*) The ordinary steamboat paddle wheel, which propels when its lower paddles only are submerged, and produces radial currents only, that is, currents that move at right angles to the wheel's axis; (*b*) the other propeller is the screw, and is made by changing the blades of the paddle from their position parallel to the wheel's axis, by giving them a pitch or twist, that winds them around the axis like the thread of an ordinary wood screw. It operates as a propeller only when submerged, by turning itself into the water behind it, just as an ordinary screw is twisted into wood. The currents created by its operation depend mainly upon the pitch or twist of the propeller blades, and vary all the way from the right-angle radial currents of the paddle wheel to those that flow longitudinally with the axis.

A centrifugal pump, referred to in the evidence, is merely an incased paddle wheel, with an opening in the casing, at its center or axis, for the water to enter and another opening at the outer end of the blades, where the water is thrown out. With the wheel operating in the volute, the greatest force is at the tips of the blades, and, there being little or no force at the center or axis, the water, seeking its level, necessarily flows in and becomes the supply thrown off at the tips of the blades. Barnaby, publishing his book in 1908, did not then claim a new discovery, but was merely stating a fact in operation, because the cutting off of the supply necessary to enable the screw to function as a propeller left it merely a submerged and partially-housed paddle wheel, and to some extent functioning as such.

The character of currents produced by a revolving screw or paddle wheel will depend most largely upon the construction of the paddles or blades,

and the further the departure from the form of the familiar steamboat paddle wheel the less pronounced must be the radial currents.

Appellants' claims are very broad, and a finding for them here would exclude the use by others of similar and almost every conceivable kind of propeller, as a mixer within a container, and this, even though, as appears in the record, many have long been in use.

We are of opinion that there is no patentable invention disclosed in either patent.

The decree is affirmed.

U. S. Circuit Court of Appeals—Seventh Circuit.

PERRY AUTO LOCK CO. ET AL. *v.* SECURITY LOCK CO. PERRY AUTO LOCK CO. *v.* SECURITY LOCK CO. ET AL. (TWO CASES).

Decided October 3, 1922.

[286 Fed. Rep., 101; Nos. 2907, 2908, 2909.]

1. PATENTS—1,205,124, FOR AUTOMOBILE LOCK, CLAIMS 3, 4, AND 5, HELD INVALID.

The Davis patent, No. 1,205,124, for an automobile lock for Ford cars, claims 3, 4, and 5, *Held* invalid on a finding of priority of invention by Perry covered by Perry patent, No. 1,282,121.

2. SAME—OPINIONS RENDERED IN PROCEEDINGS IN PATENT OFFICE NOT ADMISSIBLE IN EVIDENCE.

Generally speaking, opinions and proceedings in interference in the Patent Office, other than the judgment or decree rendered, are not admissible as evidence in suits to determine priority.

3. SAME—FINDING OF PRIORITY BY PATENT OFFICE PRESUMPTIVELY CORRECT.

Where the question of priority of invention has been decided in the Patent Office between contesting parties, such decision must be accepted as controlling on that question of fact unless the contrary is established by evidence which in character and amount carries thorough conviction.

APPEALS from the District Court of the United States for the Eastern Division of the Northern District of Illinois.

Suit in equity by the Security Lock Company against the Perry Auto Lock Company and others, with cross suits, consolidated. Decree for complainant, and defendants appeal. Reversed.

Certiorari denied 43 Sup. Ct. 248, 67 L. Ed.—.

Mr. Frank Parker Davis for the appellants.

Mr. Charles C. Bulkley for the appellees.

Before ALSCHULER, EVANS, and PAGE, Circuit Judges.

PAGE, *Cir. J.*:

In No. 2907, appellee alleges infringement by appellants of claims 3, 4, and 5 of Patent No. 1,205,124, filed September 28, 1916, and issued November 14, 1916, to Edward E. Davis. In No. 2908, appellant alleges infringement by appellees of claim 1 in Patent No. 1,217,104, filed December 7, 1916, and issued February 20, 1917, to Ira D. Perry. In No. 2909, appellant alleges infringement by appellees of all the claims in Patent No. 1,282,121, filed December 7, 1916, and issued October 22, 1918, to Perry.

[1] It is stipulated that the successful party shall have a decree canceling the involved claims of the losing party, and that the only question involved is priority of invention. The court, after a hearing where most of the testimony was given in open court, found Davis to be the prior inventor under Patent No. 1,205,124.

Davis and Perry, in 1916, each had a pending application for a locking device. Davis, on September 25, 1916, made a divisional application, which resulted, on November 14, 1916, in Patent No. 1,205,124. On December 7, 1916, application No. 1,282,121 was filed by Perry, embodying Davis's claims 3, 4, and 5, and was allowed after interference proceedings between it and No. 1,205,124 were disposed of favorably to Perry. Other than the stipulated fact that the Davis invention in No. 1,205,124 was completed as early as May 6, 1916, and the introduction of the Letters Patent, the record is silent upon the history of the Davis invention.

It is conceded that Perry had an auto lock for cars other than Fords, called the "big lock." In January, 1916, long after he claims to have had the Ford lock fully completed, Perry made application for a patent in which no direct reference was made to the Ford lock, and it is conceded that, except in the broadest sense, it did not cover that invention. Some time between May 19 and May 27, 1916, Perry saw the Davis lock in the office of one Barrett, a patent draftsman. From that fact, together with discrepancies in the testimony of some of appellants' witnesses, and facts testified to by witnesses called by appellee, appellee urges that Perry, prior to the time when he saw the Davis lock, had never made a Ford lock, as he had testified, and that appellants' witnesses, who had testified that they had been shown by Perry a drawing for a Ford lock in 1912, and others who had said Perry had shown them a completed Ford lock in 1915, and before May 6, 1916, either had fabricated their testimony or were confused as to what they really saw. It is urged that what those witnesses saw, if anything, was the "big lock," and not a Ford lock. The "big lock" is not otherwise here involved.

Some time early in 1916, Perry had negotiations with the Lindheimers, by which he hoped to interest them in the "big lock." The testimony of four of appellee's seven witnesses, viz, Leibrandt and the three Lindheimers, relates wholly to those negotiations, and is relied upon as creating a presumption that Perry's idea of a Ford lock patent grew out of those negotiations, after he had seen the Davis lock. Leibrandt says that Perry saw him about a note due on April 17, 1916, after which Perry showed him the "big lock," and that he referred Perry to one Murphy, who might be interested in it.

Arthur Lindheimer fixed his date by reference to the time he says he left the employ of the Ford Motor Company, which was May 27, 1916. He says he met Perry a week or 10 days before that, and on May 25th bought for and delivered to Perry a Ford steering wheel. Arthur's brother Benjamin testifies that he met Perry about the middle of April, 1916, that negotiations for the "big lock" lasted for three or four weeks, and that the lock was rejected, because not practical for a Ford car. He further testifies that later, about May 20th, Perry brought a pencil sketch of a Ford lock, and said "We should use all haste we could because he had seen a similar lock in a draftsman's office"; that later Perry brought a pen drawing, which looked like Perry's 1912 drawing of the Ford lock, identified by Slocum and others.

Jacob Lindheimer, the father, testifying about the negotiations, fixes the time of their beginning as "some time in April, 1916," and says that about a month after they were dropped, and as near as he could remember between the 15th and 20th of May, Perry told him he now had a lock adapted to the Ford car; that he gave Perry money to have a Ford lock made in Milwaukee, which he says Perry did, and had it fitted onto the Ford post, bought by Arthur; and that all this was done by the latter part of May. The evidence as to the date when Perry saw the Davis lock is that it was after the 19th and before the 27th of May, but there is no certainty that he saw it on any day before the 26th.

Does Benjamin's "about May 20th" mean on the 20th, or before, or after? If before, then Perry must have shown him the pencil sketch before he saw the Davis lock. If Jacob's "between the 15th and 20th" is correct, then Perry went to Jacob with a pencil sketch certainly before, and possibly five or ten days before, he saw the Davis lock. Benjamin and Jacob seem to have been testifying about the same negotiations. Benjamin says he met Perry about the middle of April, carried on the negotiations for three or four weeks and then broke them off (that would be about the 7th or 15th of May), and that about the 20th Perry brought the pencil sketch; whereas, Jacob says he was introduced to Perry by Leibrandt, who never saw Perry until about April 17, 1916, and that about a month after negotiations were broken off, Perry, between May 15 and 20, 1916, brought in the pencil sketch. This is all too uncertain to be used as a basis for establishing the probability of the claim that Perry had no Ford lock before May 20, 1916.

Perry testified that in the early spring of 1915 he took a second-hand Ford steering post to one Reinsch to have a cap removed, and that after Reinsch failed he took it to one Hilshoff, a plumber, who removed it. He says that was a week or more after the Ford lock, made in May, 1915, was completed. Appellee called Hilshoff, who testified that Perry brought the post to him within a day of May 12, 1916, and fixes the date by saying that his books show that on that day he did a plumbing job at Perry's house. He did not attempt to contradict Perry's testimony about the second-hand Ford steering post. Conceding that this is in contradiction of Perry as to the year, it with equal certainty fixes the time when Perry was working on that second-hand Ford steering wheel, for some purpose, as from one to two weeks before Perry saw the Davis lock at Barrett's.

Without going into the evidence favorable to the priority of the Perry invention, we deem it sufficient to say that it contains the testimony of many witnesses, showing very conclusively the priority in Perry, unless we are compelled to find from the record that wholesale perjury has been indulged in, not only by Perry, but also by some ten other witnesses, some of them appearing to be wholly disinterested, and unless there was forgery by Perry of the memoranda on the drawing for a Ford lock, which Perry says he made and which Slocum and Ascher testify they saw in 1912. The evidence does not justify such a conclusion.

[2] It appears that Davis's claims 3, 4, and 5 were involved in an interference proceeding after the allowance of the Davis patent in suit, and that findings in favor of priority in Perry were made as follows: By Stauffer, Examiner, December 21, 1917; on appeal, by three Examiners in Chief, May 20, 1918; and, on an appeal from those Examiners, by the Commissioner, June 20, 1918. The District Court said it had read those opinions, but refused to admit them or the evidence on the interference proceedings in evidence, or to consider them. The court, upon the trial, referring to the state of the evidence introduced by appellees, said:

> He did not put in any evidence on the question of priority except his patent. Presumably the patent is valid and that establishes priority.

[3] Cases in which proceedings in interference have been admitted in evidence are numerous, but, generally speaking, such proceedings, other than the judgment or decree rendered, are not admissible, and the district court did not err in not admitting the evidence tendered. (*Ecaubert* v. *Appleton*, 67 Fed. 917, 924; 15 C. C. A. 73; O. G. 1617.) In that case, however, the court noted and adopted the rule laid down in *Morgan* v. *Daniels* (153 U. S. 120; 14 Sup. Ct. 722; 38 L. Ed. 657; 67 O. G. 811), as follows:

> Upon principle and authority, therefore, it must be laid down as a rule that where the question decided in the patent office is one between contesting parties, as to priority of invention, the decision there made must be accepted as controlling upon that question of fact in any subsequent suit between the same parties, unless the contrary is established by testimony which, in character and amount, carries thorough conviction.

The above rule was adopted by this court in *Western Electric Co.* v. *Fowler* (177 Fed. 224; 101 C. C. A. 394), in an opinion by Judge Grosscup, where it was said:

> To overcome these judgments [in interference cases] the proof must be clear and convincing—by evidence which shall strongly outweigh that of the respondent below.

This court again supported that rule in *Gold* v. *Gold* (237 Fed. 84; 150 C. C. A. 286; 237 O. G. 309).

It is urged by appellee that the proceedings in the Patent Office were not disclosed, nor relied on, in the pleadings. The conclusions reached by the Patent Office in the interference cases were not disputed on the trial; but the award of priority to

Perry was frequently adverted to as an undisputed fact, and appellee's counsel in his argument before us said:

Subsequent to the grant of the Davis patent in suit, on November 14, 1916, Perry for the first time filed an application on December 7, 1916, illustrating, describing and specifically claiming the Ford adaptation. The Patent Office declared an interference between the December, 1916, application of Perry and the patent of Davis, which was decided in favor of Perry, whereupon a patent was granted to Perry, on which Perry's assignee, the appellant, brought a countersuit against appellee, and the question of priority there involved is again involved in the instant case, the two cases having been consolidated and tried as one case.

The Patent Office did everything which it had the authority to do to nullify the patent issued to Davis, so far as it considered it was affected by what it held was the prior invention of Perry, and we are of opinion that the District Court, under the circumstances shown, should not have held that the Davis patent established priority of his invention. That patent was not prima facie evidence of priority, and it was error to so hold. We are of opinion that the evidence favorable to Davis's priority does not carry a thorough conviction that the finding of priority in Perry was erroneous.

The decree of the district court is reversed, with direction to enter a decree finding priority in Perry and canceling claims 3, 4 and 5 in appellee's patent and for such other proceedings as are required by the pleadings and evidence in harmony with this opinion.

U. S. Circuit Court of Appeals—Third Circuit.

MACBETH-EVANS GLASS CO. *v.* L. E. SMITH GLASS CO.

Decided October 18, 1923; rehearing denied December 4, 1923.

(284 Fed. Rep., 193.)

1. PATENTS—1,342,744, FOR LENS FOR HEADLIGHT, HELD TO INVOLVE INVENTION.

The Evans patent, No. 1,342,744, for a headlight lens, consisting in combination of an upper visor, coated to reflect the light backward, and a lower portion, with horizontal refracting ridges on its outer surface and alternating vertical concave recesses or corrugations on its inner surface, which elements were first united by the patentee, *Held* to involve invention.

2. SAME—ELEMENTS OF COMBINATION MUST CONJOINTLY PRODUCE NEW AND USEFUL RESULT.

The several elements in a patentable combination must conjointly produce a new and useful result, to which every one of the several elements, acting according to its own mode of operation, contributes.

3. SAME—SALES HELD TO SHOW REMARKABLE COMMERCIAL SUCCESS.

As bearing on the question of invention, the sale by the maker of the highest-priced headlight lens on the market of 17 per cent of all headlight-modifying devices, though there were 22 devices on the market meeting all requirements of stringent laws, and 55 meeting the requirements of less stringent laws, was evidence of remarkable commercial success.

4. SAME—COMMERCIAL SUCCESS IS WEIGHTY FACT IN DETERMINING QUESTION OF INVENTION.

While commercial success may be due to many causes, and may not indicate invention, it is an important and weighty fact, entitled to serious consideration.

5. SAME—COMBINATION OF OLD ELEMENTS, FIRST MADE BY PATENTEE AFTER YEARS OF STUDY AND EXPERIMENTATION, HELD TO INVOLVE INVENTION.

Where, after years of study, work, and experimentation of many skilled illuminating engineers, a patentee was the first to combine old elements, conjointly producing a new and useful result in an integral headlight lens, which at once gained great commercial success, invention exists.

Woolley, Circuit Judge, dissenting.

APPEAL from the District Court of the United States for the Western District of Pennsylvania; W. H. Seward Thomson, judge.

Suit by the Macbeth-Evans Glass Company against the L. E. Smith Glass Company. From a decree for defendant, plaintiff appeals. Reversed, with directions.

Messrs. Winter & Brown (*Mr. Edward Rector*, *Mr. Frederick W. Winter*, and *Mr. Paul N. Critchlow* of counsel) for the appellant.

Mr. William O. Belt and *Mr. Arthur O. Fording* for the appellee.

Before BUFFINGTON, WOOLLEY, and DAVIS, Circuit Judges.

DAVIS, *Cir. J.*:

This is an appeal from a decree of the district court holding United States Letters Patent No. 1,342,744 "invalid for want of invention."

[1] The invention relates to lenses for headlights used on automobiles and other vehicles, for the purpose of bending the light, emanating from a parabolic lamp casing downward, and of diffusing it laterally, so as to reduce the glare in the eyes of persons approaching, and better illuminate the road and its sides. This result is accomplished by means of an integrally-formed cover glass or lens comprising a lower portion of clear glass, which has horizontal prisms on the outer surface, vertical cylinders on the inner surface, and an upper portion, forming a protruding visor, substantially opaque. The horizontal prisms on the outer lower surface of the lens have their front faces inclined at a slight angle to the vertical, and serve to refract the light downward, thus giving greater illumination on the road, and preventing the objectionable glare from striking the eyes of approaching persons.

The vertical cylinders, resembling a series of slightly-concave corrugations, on the lower inner surface diffuse the light laterally, and thus further prevent the glare and illuminate the road. The visor serves a twofold purpose: It, being substantially opaque, prevents the light from passing through it, except just enough to give a pleasing appearance, and, being green on the outside and covered on the inside with white enamel, reflects the light which strikes it from the source of illumination backwardly upon the main reflector, which in turn sends it outwardly for road illumination. In this way the wasted and objectionable rays of light which ordinarily pass through the upper part of an automobile lens are saved and used for road illumination. These three separate optical elements, combined for the first time in one headlight, for road illumination, are old. The question for our determination is whether or not they have been united into a patentable combination, in view of the prior art.

The patents, No. 28,187, issued to Salsbury (British) December 24, 1908; No. 940,508, issued to Schuler February 15, 1910; No. 1,119,848, issued to Macbeth December 8, 1914—show a lens for automobiles with horizontal prisms, which bend the rays of light downward and save, as Schuler says, the heretofore "wasted" and "useless" light. The Patent No. 973,729, issued to George Wamhoff on October 25, 1910, discloses a lens for automobiles having intermediate vertical convex cylinders, on each side of which are sections of ground glass. The rear faces of this lens are flat and the front faces convex. This lens, though in form unlike the Macbeth-Evans lens, in function is similar and will diffuse the light laterally. The patentee says that it—

will enable a greater spreading and diffusion of light from the lamp and through the same than the ordinary glasses or lenses generally employed.

The Patent No. 1,211,447, issued January 9, 1917, to Houze shows a concavo-convex lens with vertical parallel corrugations which diffuse the light laterally. This patent disclosed that light rays may be diffused uniformly both laterally and vertically by placing two corrugated lenses together in one lamp; the corrugations in one being vertical and in the other horizontal. The Patent No. 637,145, issued to Moffat and Dobbins November 14, 1899, shows a lens with a series of "parallel prism bars" on one face, and upon the other face a series of shallow—

lens bars, disposed substantially at a right angle in respect to the prism bars, these lens bars presenting outer convex faces.

Refraction and diffusion are accomplished by this lens.

There are a number of patents disclosing devices for lanterns and lamps generally, which prevent glare of light and at the same time save the intercepted rays of light and throw them back upon reflectors, which in turn direct them to places where they are needed and utilized. The patents to Thomas, No. 597,307, issued January 11, 1898, and to Egnell, No. 657,693, issued September 11, 1900, illustrate this class. The visor type for automobiles, more closely resembling the Macbeth-Evans patent, is represented by the British patent, No. 2,316, issued to Lucas November 10, 1904, and the United States patent, No. 1,244,556, issued to Slonaker October 30, 1917. It was the object of Lucas to eliminate "the dazzling glare of the light" by which "much inconvenience is occasioned to drivers of horse vehicles and others." In this device the front of the lamp was formed from a single disc or piece of glass, the lower portion of which was clearly transparent and the upper portion translucent. The glass in this patent was oval or flat. The protruding visor resembling that in the patent in issue was first represented in Slonaker's device. The glass in the lower portion is transparent, and the upper visor portion is made translucent by sand-blasting, etching, painting, or other well-known means, as was the glass in the device of the Lucas patent. In the center of the lens is a circular disc, called a bull's-eye.

The function, however, of the Slonaker visor performs in part only that of the Macbeth-Evans visor. The sole function of the Slonaker visor was to diffuse rays of light passing through it and prevent glare. The function is thus described by the patentee: The visor is rendered translucent by sand-blasting—

thus causing the light transmitted through to be diffused, and preventing the free transmission of those forwardly and upwardly directed rays of light which in the ordinary form of clear glass lamps prove so objectionable to pedestrians and others approaching or approached by the lights.

The function of the "green visor" was not only to prevent glare, but also to save and utilize the hitherto wasted and objectionable light. The saving and subsequent use of the light theretofore wasted did not occur to Slonaker.

It is indisputable that Evans was the first to combine these three elements of his patent in one lens: (1) The visor, having an outer coat of substantially opaque green enamel for pleasing appearance, and an inner coat of white enamel to reflect light backward; (2) the outer surface of the lower portion of the lens having horizontal refracting ridges, with their faces inclined at a slight angle to the vertical to refract rays of light downwardly and (3) the inner surface having alternating vertical concave recesses or corrugations to diffuse light laterally. There is no question about the fact that Evans was the first to unite these three desirable elements into one integral lens. No other person had combined the three elements in any kind of lens, integral or otherwise. Whether or not this union reached the height of invention or remained on the plane of mere mechanical skill is the real question in this case.

[2] The law, drawing the dividing line between invention and mechanical skill, has been declared many times and is entirely clear, but the correct application of the law to the facts in a particular case is often difficult, and is a fertile field for difference of opinion. The several elements in a patentable combination must conjointly produce a new and useful result. To this result every one of the several elements, acting according to its own mode of operation, contributes. This court, in defining a patentable combination, said:

In doing its appointed share towards effecting the single result achieved by the co-operation of all, each element acts, of course, according to the law of its own being; but, of necessity so acting, it is still, none the less, combined with the others, and does "qualify" each and all of them (not their distinctive method of operation), in the sense that each is, by the co-operation of the others, capacitated to contribute, by acting in its own peculiar way, to the common end which, without the co-operation of each and every other of the co-ordinated elements, it would be powerless to accomplish or advance. (*National Cash Register v. American Cash Register*, 53, Fed., 367; 3 C. C. A., 559; *Blake v. Robertson*, 94 U. S. 729, 24 L. Ed., 245; 11 O. G., 877; *Lock Co. v. Sargent*, 117 U. S., 536; 6 Sup. Ct., 934; 29 L. Ed., 954; 35 O. G., 497; *Dayton Malleable Iron Co. v. Forster, Waterbury & Co.*, C. C., 153 Fed., 201; *International Mausoleum Co. v. Sievert et al.*, 213 Fed., 225; 29 C. C. A., 569; *New York Scaffolding v. Whitney*, 224 Fed., 452; 140 C. C. A., 138.)

Does the Evans patent meet this test? Do the three elements, combined for the first time by him

conjointly, produce a new and useful result? It seems to us that they do. The rays of light, conserved by the visor, sent back upon the reflector, and in turn reflected through the lower portion of the lens for road illumination, are diffused laterally by the vertical cylinders and refracted downwardly by the horizontal prisms. In fact, all the light reflected through the lens is both diffused laterally by the cylinders and refracted downwardly by the prisms. In the field of illumination there is not a mere aggregate of several results, each the complete result of one of the combined elements; but, as the testimony shows and as we observed in the demonstration at the hearing, there is a single, unitary whole, the result of the combined operation of all the elements—a result never before produced in any combination. Did the production of this result amount to invention or mere mechanical skill?

The Macbeth-Evans Glass Company had been engaged for more than fifty years in making all kinds of glass for illumination, for lamp chimneys, lantern globes, lights for railroad systems, signal glass, switch lamps, semaphores, lantern globes for signaling, lights for ships, signal lights, searchlights for battleships, and lenses for lighthouses. Some time prior to 1909 the company began experimenting with automobile lenses, and the problem before it and before the automobile world was the production of a good light, properly distributed, with the elimination of glare. In June of 1909 Harry S. Hower, professor of physics and head of the department of physics of the Carnegie Institute of Technology, was director of research for the Macbeth-Evans Glass Company. From that time on, with the assistance of from one to five "expert illuminating engineers" and qualified lens designers, he was engaged in and connected with the development of one lens after another until the lens of the Evans patent was produced. It appears, therefore, that the Evans lens was not obvious to the ordinary mechanic skilled in road illumination, but was the result of years of study and work by experts in optical road illumination and lens designing.

[3, 4] No attempt was made to show that the Evans lens did not solve the problem of road illumination—at least, that it was not superior to any prior lens. With the exception of a few lenses ground and polished by hand, the Evans or "green visor lens," as it is called, is the highest-priced lens on the market. Notwithstanding that fact, from July, 1917, to January, 1921, two and one-half years, 650,000 pairs were sold, 17 per cent of all headlight-modifying devices. When it is remembered that there were 22 devices on the market meeting all the requirements of stringent State laws and 55 meeting the requirements of less stringent laws, the sale of 17 per cent by the one costing the most is evidence of remarkable commercial success. The testimony shows that the success of this lens was because it met a real need. Commercial success may be due to many causes, and may not indicate invention, but it is an important and weighty fact, entitled to serious consideration. (*Loom Co.* v. *Higgins*, 105 U. S., 580; 26 L. Ed., 1177; 21 O. G., 2031; *Barbed Wire Patent Case*, 143 U. S., 275; 12 Sup. Ct., 443, 450; 36 L. Ed., 154; 58 O. G., 1555; *Expanded Metal Co.* v. *Bradford*, 214 U. S., 366, 381; 29 Sup. Ct., 652; 53 L. Ed., 1034; 143 O. G., 863.)

The problem, which seems difficult, and which the world, interested in the art, tried hard and long to solve, when solved, seems simple, and the wonder is that it was not solved before. The Supreme Court, in the case of *Diamond Rubber Co. of New York* v. *Consolidated Rubber Tire Co.* (220 U. S., 428; 31 Sup. Ct., 444; 55 L. Ed., 527; 166 O. G., 251), said:

> Knowledge after the event is always easy, and problems once solved present no difficulties, indeed, may be represented as never having had any, and expert witnesses may be brought forward to show that the new thing which seemed to have eluded the search of the world was always ready at hand and easy to be seen by a merely skillful attention.

In the case of *Loom Co.* v. *Higgins* (105 U. S., 580; 26 L. Ed., 1177), that court, in commenting on the contention that the combination of Webster was a mere aggregation, which would appear to any mechanic skilled in the art, said:

> But it is plain from the evidence, and from the very fact that it was not sooner adopted and used, that it did not, for years, occur in this light to even the most skillful persons. It may have been under their very eyes; they may almost be said to have stumbled over it; but they certainly failed to see it, to estimate its value, and to bring it into notice. * * * Now that it has succeeded, it may seem very plain to any one that he could have done it as well. This is often the case with inventions of the greatest merit.

[5] These quotations might very appropriately have been addressed to the contention in the case at bar that the combination of the "green visor lens" was a mere aggregation, obvious to any mechanic skilled in the art. With the advent of motor vehicles, and with their great increase in number and utility, proper road illumination, with the elimination of glare, became a very important problem. After years of study, work, and experimentation of many skilled illuminating engineers, Evans was the first to combine the three old elements, which conjointly produce a new and useful result in an integral lens which at once gained great commercial success. We are of opinion that the combination involved invention and was patentable.

The decree of the district court dismissing the bill is reversed, with directions to reinstate the bill and enter a decree in accordance with this opinion.

WOOLLEY, *Cir. J.* (dissenting):

I have trouble in finding invention in the lens of the patent. The thing the patentee did, when stated in simple terms, was this: In a plain lens of an automobile lamp he cut transverse horizontal refracting ridges, thus employing a well-known expedient of the optical art for deflecting rays of light. For this (in conjunction with mechanism not here involved) he was granted Letters Patent No. 1,119,848, issued December 8, 1914. In this lens, some time later, he cut sections of vertical cylinders, again employing a well-known expedient of the art for spreading rays laterally. Letters Patent No. 973,729 to Wamhoff, 1910. This lens, cut horizontally and vertically to direct rays downwardly and laterally, appeared on the market under the name of "Liberty lens." For some reason it was, and still is, marked as if made under Letters Patent of December 8, 1914, though in fact but one of these two optical features is covered by that patent.

Just when this double-cut lens was first made and put on sale is not clear. It is certain, however, that it was made before the date of the application for the patent in suit because the patentee there included it in his diagrams, specification and claims. Later, for a reason not given, he canceled the claims on this construction and withdrew the diagrams. With the Liberty lens in existence on the date of the application for the patent in suit, what next did the patentee do? Having found in the art a lens shade in the form of a visor—the invention of Slonaker (Letters Patent No. 1,244,556, 1917), which was but a step beyond the invention of Dalman (Letters Patent No. 1,001,733, 1911)—all he did was to place a Slonaker visor on a Liberty lens. Did this involve invention? I think not. But the plaintiff urges that in the lens of the patent in suit the three elements—horizontal prisms, vertical cylinders, and a shade—appeared in combination for the first time and produced a new result. Even so, I can not discover invention. One element—horizontal prisms—was old. Another—vertical cylinders—was old. But the vital thing is that the combination of horizontal prisms and vertical cylinders also was old—old in the window prism art from which it was taken, Letters Patent No. 637,145, to Moffat and Dobbins (1899) (*Daylight Glass Mfg. Co.* v. *American Prismatic Light Co.*, C. C., 140 Fed., 174; *Daylight Glass Mfg. Co.* v. *American Prismatic Light Co.*, 142 Fed., 454; 73 C. C. A., 570; *Pressed Prism Plate Glass Co.* v. *Continuous Glass Press Co.*, C. C., 150 Fed., 355; *Pressed Prism Plate Glass Co.* v. *Continuous Glass Press Co.*, C. C., 181 Fed., 151); and not new in the automobile lamp art, having been described in the application for the patent in suit, claimed and withdrawn. Whether these two elements in combination involve invention when transferred from the window of a house to the window of a lamp is not here in issue. However that may be, this old combination of optical expedients produced all the ray changes of the lens of the patent in suit except a negligible percentage made by the Slonaker visor when painted as Slonaker had taught the art. The patentee made free use of Slonaker's invention and his teaching. In placing the Slonaker lens shade on his own double-cut lens, I find the patentee made no more of an invention than if he had borrowed a lamp shade from a neighbor and placed it on his own student lamp. I am constrained to dissent from the judgment of the court.

U. S. Circuit Court of Appeals—Sixth Circuit.

CENTRAL BRASS MFG. CO. *v.* STERLING BRASS CO.

Decided December 8, 1922.

[285 Fed. Rep., 135.]

1. PATENTS—994,457, FOR WATER FAUCET, HELD INVALID FOR WANT OF INVENTION.
   The Mortimer and Strauss patent, No. 994,457, for a compression-bib water faucet, with a quick-throw thread, and a plate or member stopping further rotation of the stem when the valve is fully open, *Held* invalid for want of invention in view of the prior art.
2. SAME—NO INVENTION IN THICKENING WASHER OR SUBSTITUTING OR ADDING PLATE TO CHECK OPENING OF FAUCET.
   When a patent for a compression-bib water faucet, consisting of the combination of a quick-throw thread with a plate or member stopping further rotation of the stem when the valve is fully open, involves no new or novel combination of old elements, and when the elements occupy the same relative position and function in exactly the same manner as in the prior art, there is no invention in thickening a metal washer of the prior art, or substituting therefor, or adding thereto, a plate or member to check the rotation of the stem.
3. SAME—NO INVENTION IN THICKENING WASHER TO PREVENT BENDING OR DISHING.
   There was no invention in increasing the thickeness of a washer in a compression-bib water faucet, to prevent bending or dishing upward when the upper face of the enlarged threaded portion of the stem came in contact with the washer.

APPEAL from the District Court of the United States for the Eastern Division of the Northern District of Ohio; D. C. Westenhaver, judge.

Suit by the Central Brass Manufacturing Company against the Sterling Brass Company. From a judgment for defendant, plaintiff appeals. Affirmed.

Mr. Charles E. Brock (*Messrs. Hull, Brock & West* on the brief) for the appellant.

Mr. John F. Oberlin (*Messrs. Fay, Oberlin & Fay, Messrs. Mooney, Hahn, Loeser & Keough*, and *Mr. John F. Oberlin* on the brief) for the appellee.

Before KNAPPEN, DENISON, and DONAHUE, Circuit Judges.

DONAHUE, *Cir. J.*:

[1] This appeal involves the validity of Letters Patent No. 994,457 (1909), issued to the Central Brass Manufacturing Company of Cleveland, Ohio, as assignee of the inventors, John N. Mortimer and Emile L. Strauss. This patent relates specifically to a compression-bib type of water faucets; the object being to provide a bib or like device wherein the valve will be thrown full open or full shut with approximately a quarter turn such as is required to operate a Fuller cock. There are but two claims in the patent, the first one reading as follows:

> In a device of the character described, the combination of a casing provided with a valve seat, a valve stem, said valve stem having an intermediate enlarged portion threaded in said casing and bearing a valve fitted to such seat, the pitch of the thread on said stem being such as to throw said valve full open, or full shut, upon approximately a quarter turn thereof and a member disposed to engage the upper face of such enlarged portion, said member being of a thickness to stop further rotation of said stem when the valve is in its full open position.

The second claim reads substantially the same, except in the second claim the word "plate" is substituted for the word "member" in the first claim. The district court found the Letters Patent in suit invalid as to each of the claims thereof for lack of invention and anticipation by the prior art, and dismissed the bill of complaint with costs.

It is admitted on the part of the appellant that this claimed invention is in a crowded art, but it is contended that, however slight the advance may be, it is nevertheless a substantial one and involves invention. Evidence was introduced tending to prove that in the early prior art the enlarged portion of the stem of the bib was equipped with what is called a "slow thread," and for that reason required one or more turns of the stem to open and close the valve; that the Fuller bib, referred to in the patent in suit, operates upon a different principle than the compression bib; that its valve can be opened and closed by approximately a quarter turn of the stem; that for this reason the Fuller type became very popular, although it did not have the wearing qualities of the compression bib, involved a number of additional elements, and caused, or at least permitted, a pounding or hammering commonly known as a "water hammer."

The bib or faucet of the patent in suit is of the old compression type, the enlarged inclosed portion of the stem being equipped with a "quick-throw" thread, instead of the slow thread of the earlier patent art. This high-pitch or quick-throw thread requires but one-quarter turn of the stem to open or close the valve, thereby affording in a compression bib all the advantages of a Fuller bib without its complex and objectionable features.

No claim is made by appellant to the broad idea of a high-pitch or quick-throw thread; that is old in the patent art. Spear, No. 119,058; Rowell, No. 482,017; Mueller & Schuermann, No. 879,400. Nor is any claim made to the broad idea of checking the rotation of the stem when the valve is fully open. That is also old in the art, and shown in the two patents last above cited. It further appears from the evidence that any type of compression bib, regardless of whether it be equipped with the slow thread or a quick-throw thread, will prevent the objectionable "water hammer" in the Fuller type. However that may be, Rowell in his application for Patent No. 842,01 (1907) states that his invention will prevent this "hammering." But claim is made for the specific means or combination of elements whereby the coarseness of the thread coupled with the gauged plate or member which contacts with the enlarged portion of the stem are utilized for providing a simple and efficient form of compression bib which can be quickly opened and closed and in which the opening movement will be checked after a limited fractional turn of the handle.

[2, 3] There is, however, no new or novel combination of old elements in the patent in suit. They occupy the same relative position in the completed bib and function in exactly the same manner as in the prior art, so there remains for consideration the sole question whether or not the thickening of the metal washer of the prior art, or the substitution therefor or the addition thereto of a plate or member to check the rotation of the stem when the valve is fully open, either in and of itself or in combination of these old elements, is invention.

By reason of the slow thread used in the earlier prior art, one or more turns of the stem would be required to bring the upper face of the enlarged portion of the stem in contact with the washer that holds the packing in place; nevertheless it is inevitable that if these faucets, such as shown in Serannage and Bate, 110,292, and Mayor, 129,485, are made in proper proportions, these two parts would come in contact with each other and prevent further rotation of the stem substantially at the time the valve would be in its full-open position. These bibs were evidently so constructed, for it would be useless to have a longer stem or more screws thereon than necessary to open the valve.

It is insisted, however, that this washer of the prior art was not of sufficient thickness and strength to withstand contact with the enlarged portion of the stem without bending or dishing upward. That would hardly seem possible, as the entire upper surface of the enlarged threaded portion of the stem would contact at the same time with all exposed portions of the washer. But, even if this contention were conceded, it would not involve invention to increase the thickness of this washer so as to prevent this bending or dishing upward. If, therefore, the quick-throw thread of Spear, Rowell, and Mueller & Schuermann were substituted for the slow thread of the earlier patent art, and it were found desirable to check the rotation of the stem at one-fourth or one-half turn by contact with these two parts, it would be obvious to any person of ordinary intelligence, though not a mechanic, that this could be accomplished, either by extending the enlarged portion of the stem upward or increasing the thickness of the washer or by shortening the body space between the washer and the upper surface of the enlarged portion of the stem, or by shoulders on the plug, as in Rowell, or by extending a lug downward from the washer in a position to contact, in a quarter turn with a lug extending upward from the enlarged threaded part of the stem, as in Mueller & Schuermann.

It is equally obvious that the same result can be obtained by supplying an additional washer or plate of the necessary thickness, and this is what Mortimer and Strauss have done. If it were conceded that means to check the further rotation of the stem at the quarter turn involved invention, then such means, in addition to idea of opening and closing the valve at the quarter turn, are found in Rowell and in Mueller & Schuermann. At most the plate of Mortimer and Strauss is but the clear equivalent, functioning in the same way and producing like result as the means of the prior patent art above cited.

For the reasons stated the judgment of the district court is affirmed.

U. S. Circuit Court of Appeals—Third Circuit.

SIMMS MAGNETO CO. v. WESTINGHOUSE ELECTRIC & MFG. CO.

Decided December 27, 1922.

[286 Fed. Rep. 562.]

PATENTS—1,081,731, FOR ELECTRIC SELF-STARTER, CLAIMS 2, 5, 6, AND 7, HELD VOID FOR ANTICIPATION.

The Foster patent, No. 1,081,731, for an electric self-starter for internal-combustion engines, claims 2, 5, 6, and 7, which are broad claims, *Held* invalid for anticipation and description in prior publications.

APPEAL from the District Court of the United States for the District of New Jersey; Charles F. Lynch, judge.

Suit in equity by the Westinghouse Electric & Manufacturing Company against the Simms Magneto Company. Decree for complainant (286 Fed 558), and defendant appeals. Reversed and remanded.

Mr. Frederick P. Fish, Mr. Elliott J. Stoddard, and *Mr. Clarence D. Kerr* for the appellant.

Mr. Drury W. Cooper and *Mr. Thomas J. Byrne* for the appellee.

Before BUFFINGTON, WOOLLEY, and DAVIS, Circuit Judges.

BUFFINGTON, *Cir. J.:*

In this case, the court below, filing an opinion reported at 286 Fed. 558, entered a decree adjudging claims Nos. 2, 5, 6, and 7 of Patent No. 1,081,731, granted December 16, 1913, to Alfred B. Foster were valid and infringed. Thereupon the defendant took this appeal.

Reference to the opinion above referred to saves a needless restatement of the case, which we may say concerns electric self-starters for automobiles. After due consideration, and for reasons we hereafter state, we are of opinion the court committed error in not adjudging the claims in question invalid.

While a number of other important and interesting questions are involved, the ground on which we reverse, namely, invalidity, is basic, and, with our holding against the plaintiff in that regard, a discussion of the other questions is futile. The case, as we have said, concerns electric self-starters for automobiles, and the gist of the present patent's disclosure was a mechanism wherein pressure on the foot pedal served to couple together, by enmeshing, the gearing of the electric motor with the gearing of the engine of the auto, and at the same time and by the same pedal action there was opened the current in the starting electrical motor.

Conceding, for present purposes, but not deciding, that Foster's disclosure was such as to justify the specific claims, not now before us, of his patent, for the particular mechanism he disclosed and for substantial equivalents thereof, we are still of the opinion that, in view of certain publications, to wit, Lahmeyer German Patent 145,018 (Rec. p. 474), Carpenter & Diederich textbook (Rec. pp. 485–487), German Engineering Journal (Rec. p. 517), and High Power Gas Engines (Rec. p. 493), the claims in question should not have been granted and are invalid. In this connection it is due the Patent Office to say that these publications were not called to its attention or considered when Foster's patent was applied for and granted.

Without entering upon a discussion of electric starters generally, we note that the device of Foster pertained to mechanism employing enmeshing teeth, and that in starting such mechanism there must be a substantial tooth enmeshing or engagement before the mechanism is started to revolve. The operation of Foster's mechanism is thus described in his specification:

> The lever 10 is fulcrumed at 13 on bracket 4^a, being slotted at its lower end to engage stud 11 on collar 12 loosely mounted and longitudinally movable on sleeve 8 and abutting on the hub of gear 7; said lever 10 has its upper end in the form of a treadle 14.
>
> * * * To start the engine the operator places his foot upon treadle 14 and depresses said treadle, *thereby forcing gear 7 into engagement with gear* 2^a, compressing spring 9 and thereupon forcing contact 20 into engagement with contact 19, thereby closing the circuit, starting the motor and, through the gearing described, starting the fly wheel. As soon as the engine is started, the operator removes his foot from the treadle and spring 9 separates (indirectly) the contacts, opens the circuit and disengages gears 7 and 2^a, permitting the motor to come to a state of rest.

From this it will be seen that the single action of the foot pedal in causing a synchronizing enmeshing of the tooth parts and the simultaneous functioning of the motor current constituted the gist of Foster's device, and that he was granted claims not here involved of which the specific parts of his mechanism were combining elements. Seeing, then, he thus obtained patent monopoly for what he gave the art, was he entitled to blanket it by the claims here in issue, which are very broad and nonspecific in character?

In view of the publications cited above, we think not, for in them we find, seven years before Foster, not only the printed publication of this broad conception, which forms a statutory bar to a subsequent patenting thereof, but as further emphasizing the significance of such printed publication, we find the embodiment of such publication in practical, successful, operative form.

Turning to the Lahmeyer German patent, No. 145,018, November 21, 1902, we have a description of a self-starter, not for automobiles, it is true, but for large gasoline engines, and within the purview of Foster's problem, when he said in his specification:

> My invention relates to a cranking device for use in starting internal combustion engines, whether employed on automobiles, boats, aeroplanes, or elsewhere.

The Lahmeyer starter is of the same general type as Foster, in that it uses gear mesh. The gears mesh before the machinery is started, and the same movement that enmeshes the gear causes the electric motor current to function. Availing ourselves of the accompanying lettered reproduction of the

drawing of the patent as furnished in the brief of plaintiff's counsel, we note that Z is the fly wheel of the engine. An electric motor M has upon its shaft

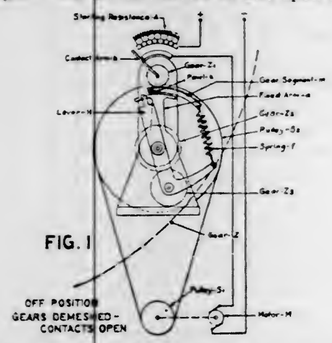


FIG. 1

a pulley S^1 which drives through a chain drive pulley S^2, on the central shaft, to which is attached Z^2 which meshes with gear Z^3, which is journaled on lever H pivoted on the central shaft. An arm of lever H is connected by spring *f* to a slide which has rack teeth engaging with a pinion Z^1 which is operated by a handle *h*.

In operating the starter, the operator first throws the arm *h* to the right, which turns the gear Z^1 in the direction of the arrow, and thereby carries the rack slide *m* to the left, which pulls on spring *f*, and thereby moves gear Z^3 to the right and into enmesh with flywheel Z. As the arm *h* is moved further to the right, it passes the rheostat resistance A. When slide *m* is thrown fully to the left, pawl *k* drops into a notch in the stationary upright *a* and holds the parts in position until the engine starts. When the engine starts, it carries gear Z^3 to the left and thereby brings the end of lever H into engagement with pawl *k* on rack *m*. The spring *f* then pulls slide rack *m* to the right, which turns gear Z^1 in an anticlockwise direction and carries the arm *h* to the left, to break the circuit to motor M, with a consequent automatic disengagement of the enmeshed gears of the motor and engine.

Selecting, for example, from the broad claims here in issue, claim 2,[1] it will be seen it reads both literally and functionally on the Lahmeyer device. Taking element—

a starting device for internal combustion engines including in combination a flywheel and motor normally operatively disconnected,

we find in Lahmeyer's starter the flywheel Z and the motor M normally disconnected. The next element—

an electric current normally open and adapted, when closed, to energize the motor,

is also present in Lahmeyer. The third statement—

means under the control of the operator for operatively connecting the flywheel and motor and thereupon closing the circuit,

is in Lahmeyer in the handle *h* and its connected mechanism, the pinion Z^1, the rack *m*, spring *f* and pinion Z^3, which first cause the gears to enmesh and then close the circuit to start the motor. The third element—

automatic means for opening the circuit and thereupon operatively disconnecting the flywheel and motor,

is embodied in the self-acting disengagement of Lahmeyer already described, which is effected by the movement of the flywheel.

Finding, as we do, this statutory bar of a self-explanatory, sufficient, prior publication of Foster's disclosure, we note, as evidencing the inherent rightness of the conclusion we have reached, that the further publications, as noted below, were made, not only of the fact of Lahmeyer's disclosure, but of its worth and general use. In Carpenter & Diederich's textbook on "Internal Combustion Engines," published in New York in 1908, it is said:

> A simpler way is to gear an electric motor to a rack on the fly-wheel as shown in Figs. 13–39. When the engine picks up, the motor is automatically thrown out of gear. This scheme has the merit of great simplicity, absolutely no change in the valve operation of the engine being required for starting. * * * The entire labor connected with this starter, therefore, consists of the attendant's turning the handle h^2 of the starting box to the right to start the motor. Beyond this no further attention is required, the action being entirely automatic.

In the German Engineering Journal of 1907, it is said:

> The company of Felton, Guilleaume-Lahmeyer at Frankfort manufacture such a starting mechanism by which the motor with a single hand lever is set into motion and is brought into connection with the cog rim of the flywheel, while the breaking of the connection is automatically accomplished as soon as the fly-wheel has a definite speed of rotation. * * * It is in use on the docks of Harland and Wolff in Belfast and in the electrical factory of Charlottenburg.

We are therefore of opinion that the broad claims of Foster here in issue were mistakenly allowed, and must be held invalid, and the case remanded to the court below, with instructions to enter a decree adjudging the claims sued on invalid and dismissing the bill.

[1] A starting device for internal combustion engines including in combination a flywheel and a motor normally operatively disconnected; an electric circuit normally open and adapted, when closed, to energize the motor; means under the control of the operator for operatively connecting the flywheel and motor and thereupon closing the circuit; and automatic means for opening the circuit and thereupon operatively disconnecting the flywheel and motor.

U. S. Circuit Court of Appeals—Seventh Circuit.

MAXIM MFG. CO. *v.* IMPERIAL MACH. CO. ET AL.

Decided January 2, 1923.

[286 Fed. Rep. 79.]

1. PATENTS—809,582, CLAIMS 1–4, AND 942,932, CLAIM 1, FOR POTATO-PEELING MECHANISM, HELD VALID AND INFRINGED.

   Claims 1–4 of the Robinson patent, No. 809,582, for a rotary disk for a potato-peeling machine, and claim 1 of the Robinson patent, No. 942,932, for an improvement in such device, *Held* not anticipated, but valid and infringed.

2. SAME—CLAIM FOR "FLAT" STRIATED SURFACE INFRINGED BY ABRADANT SURFACE WITH DEPRESSIONS; "STRIA;" "DEPRESSION;" "RUT;" "WRINKLE;" "CONCAVE;" "CUP;" "POCKET;" "DIMPLE."

   A patent calling for a horizontal, flat, striated surface is not confined to one having raised lines, with furrows between them, and is infringed by an abradant surface, full of little holes, cups, pockets, or concavities, as "flat" implies levelness or horizontalness, while "stria" means a furrow, channel, or hollow, synonyms of which are "depression," "rut," "wrinkle," "concave," "cup," "pocket," or "dimple."

APPEAL from the District Court of the United States for the Eastern Division of the Northern District of Illinois.

Suit by the Imperial Machine Company and another against the Maxim Manufacturing Company. Judgment for plaintiffs, and defendant appeals. Affirmed.

Mr. Chas. Hills and *Mr. Chas. Hills, jr.*, for the appellant.

Mr. Wallace R. Lane for the appellees.

Before BAKER, EVANS, and PAGE, Circuit Judges.

PAGE, *Cir. J.*:

[1] In a suit by plaintiffs appellees, herein called plaintiffs, the court held that claims 1, 2, 3, and 4 of Patent No. 809,582, and claim 1 of Patent No. 942,932, were valid and infringed by defendant appellant, herein called defendant.[1]

The defenses are noninfringement, equitable estoppel, laches, and invalidity. Eighty-seven patents are urged as representing anticipation in the prior art. Defendant also sets up a counterclaim, alleging unfair competition. The witnesses were before the court, and several potato-peeling tests, on behalf of defendant, were made in the presence of the court. After a careful examination of the evidence, we are of opinion that it amply supports the judgment of the court.

Out of the large number of anticipatory patents scheduled, a few are seriously urged. Remembering that all claims in issue are combination claims, it is at once apparent that the Dodge vegetable washer, No. 322,429, does not anticipate either Robinson patent. Admittedly it had no abrading surface. The slats on the bottom disk, shown in Fig. 2, are far different in kind, purpose, and operation from those described in the claims in issue. It does not appear that the Dodge machine was ever made or sold. The same things are true of the Lowe patents, German No. 84,102, and British No. 3040. They were for washing and not for peeling potatoes.

In the Jaeger patent, No. 524,420, the drawings and specifications show a cutting surface of blades, as distinguished from the rubbing surface in the Robinson patents. From its appearance in the drawings and the description in the specifications, it seems that, even if practical and efficient, the cost to construct would be prohibitive. It has never been upon the market nor made. Judging from the disk in the drawing, and the movement which it is said in the specifications is given to the potatoes, the agitation of the potatoes appears not to be given by humps or scoops, as in the Robinson device, but by the blades themselves. The surface of knives on the disk and sides of the container would have an effect upon potatoes similar to that of the stab metal or nutmeg grater surface in one of expert's reproductions of the Lehman machine operated in the presence of the trial court. They seem to have been unevenly and poorly peeled.

It is strongly urged that the Lehman patent, No. 91,238, clearly embraces all the features of the claims in suit. Defendant's expert McElroy had two machines made after what he said was the teaching of the Lehman patent, and with them peeled potatoes in the presence of the district judge, who decided the case adversely to all of defendant's contentions there made. Those machines were before us at the argument. One has the stab metal face on the sides of the container, and on the face of the disk. In the other, the sides and disk are made of some abradant composition. Upon the face of the disk is a raised portion, extending from the outer edge of the disk, straight across to within about an inch of the center, and, as it lays upon the disk, presents a portion four inches long, with two beveled faces three-fourths of an inch wide. These are made to represent the elevation N in the patent.

In the expert's affidavit, the similarity between the Lehman and the Robinson machines is largely based upon the expert's alleged reproduction of the raised portion on the disk shown in the drawing in the Lehman patent, which is not otherwise described in the specifications than, "This disk is provided with one or more elevations N." After making the statement, viz, "The structure of the 'elevation N' is very clear to me," he also says, "Although I am free to admit that there is room for a difference of opinion as to just what is shown." He then converts N into a perforated rectangular piece of metal, bent up substantially as above described. The expert never saw a Lehman machine. His knowledge of it was gained from the patent, which was before the trial court, and is before us. The drawing is very simple, yet so small, and so lacking in the presentation of those dimensions necessary to a clear understanding, that no one can do more than guess at what N was intended to be, and we are compelled, as the courts before us have done, to reject the interpretation which the expert himself has shadowed in doubt.

There is in evidence the Schaefer machine, that he testified was completed November 17, 1906, nearly two years after Robinson applied for Pat-

[1] 1. In a device of the class described, an impelling and abrading member, comprising a rotary disk composed of a horizontal flat striated portion and a raised portion, extending from near the circumference inward and having two sides sloping down to the flat striated portion of said disk, substantially as described.

2. In a device of the class described, an impelling and abrading member comprising a rotary disk composed of a number of horizontal flat striated portions separated by raised portions at intervals extending from near the circumference inward, substantially as described.

3. In a device of the class described, an impelling and abrading member comprising a rotary disk composed of a horizontal flat striated portion and a rounded raised portion rising gradually from near the center toward the circumference, substantially as described.

4. In a device of the class described, an impelling and abrading member comprising a rotary disk composed of a horizontal flat striated portion, and a rounded raised portion bounded by two approximately radial edges extending from near the circumference inward and having a striated surface, substantially as described.

1. In mechanism of the character described, a rotary horizontal abradant member having a substantially flat abradant surface of broken crystalline material the surface being broken with a plurality of peripheral scoop-shaped humps or waves, said waves extending outwardly from a point intermediate of the center and periphery of the member.

ent No. 809,582, and, though he says he got the idea in 1903, no patent was applied for, and, although he had castings made for 800 machines, no person who purchased a machine from him and no user of such a machine was brought to testify. No use of the machine is shown. In 1911, Schaefer in Chicago, interested other parties, and organized the Schaefer Manufacturing Company. The name was subsequently changed to the Sanitary Sectional Brush Company.

On the extreme edge of the Schaefer disk was a small hump. Schaefer says that one or more of such humps appeared on his disks, sometimes accidentally and sometimes by design. It was a machine with a flat disk, with one small hump on it, that he brought to the Schaefer Manufacturing Company; but the machine was almost immediately changed, so that it was wholly different in appearance, though the witness Smith said the mechanical action was practically the same. It is claimed that defendant is the successor of the Sectional Sanitary Brush Company, but the corporation papers show no connection. We find no similarity between the original Schaefer machine and plaintiffs' machine, except that Schaefer had the abradant surface, which defendant claims plaintiff wrongfully took from Archer. If defendant's machine is a development of the Schaefer machine, the development has been away from the Schaefer form of disk and suspiciously strong towards that of the plaintiffs.

It is charged that plaintiffs abandoned the original Robinson striated disk surface, and took the Archer abradant, and only after that developed any sort of efficiency. There was a competitive test on Government ship Hancock, which showed results very inferior to those of the Archer machine. Much stress is laid upon the time and outcome of that contest. When the test took place is left wholly uncertain. The only real light on the outcome of it is found in reported cases, from which it appears that on June 9, 1905, Archer applied for two patents—No. 842,993, "process for attaching an abrading surface to metal," which was issued February 5, 1907; but No. 999,478, for a potato-peeling machine, was not issued until August 1, 1911, more than six years after the application. There were repeated rejections, and it was only after the Navy officials in charge of the peeling contest on the Hancock had reported how vastly superior the work of the Archer machine was to that of the Robinson machine that there was an allowance, solely because of that report.

It further appears that the facts of that competition first came before the court in *Archer v. Imperial Machine Co.*, in 1913, where the contest was between the Archer and the Robinson patents. The facts disclose that the great difference shown between the accomplishment of the machines in the Navy test was rather accidental, because of an experimental change made by Robinson. The court there held that the better results shown did not constitute invention, and the case was affirmed by the court of appeals. (*Archer v. Imperial Machine Co.*, D. C., 202 Fed. 962; *Id.*, 207 Fed. 81, 124 C. C. A. 638.)

Archer made no claim at any time that he invented any material for an abradant surface. His first patent was for a process of attaching an abrading surface to metal, and the chief claim, as originally made in the application for the potato peeler, was on the arrangement whereby the disk turned one way and the container the other, as illustrated in the drawing. Whether that was used in the Navy competition does not appear.

The Robinson patents, belonging to plaintiffs, have been many times before the courts, and the cited prior art patents hereinbefore referred to, and many others, have been often considered and generally rejected. The Robinson patent, No. 809,582, was held to be a pioneer patent by Judge McPherson (note to 212 Fed. 959). That case was reversed by the court of appeals (*Am. Fruit Machinery Co. et al. v. Robinson Machinery Co.*, 191 Fed. 723, 112 C. C. A. 313) solely on the construction of the word "flat." Defendant's disk there was a spiral one. Judge Mayer also held No. 809,582 to be a pioneer patent (*Imperial Machine Co. v. Rees*, D. C., 261 Fed. 612; *Imperial Machine Co. v. Am. Machinery Co.*, D. C., 276 Fed. 436.) At page 419, 262 Fed., is a list of cases where Patent No. 809,582 has been held valid and infringed. We note that, while reliance is placed on anticipation in the prior art to defeat plaintiffs' patent, yet that defendant has departed so far from the disk forms of the prior art patents that its disk has now become almost a Chinese copy of plaintiffs' disk.

We are of opinion that, as to form, the infringement cannot be questioned, and there remains as to No. 809,582 only the question as to whether the abradant surface used comes within the terms of the claims in suit. What Robinson invented was a practical machine that would and did successfully peel deep masses of potatoes. It was approved and accepted by the buying public. His discovery consisted in two material things, viz, that the peeling surface, to be efficient and economical, must be a rubbing and not a cutting surface, and that to deal with the mass of potatoes there must be a raising and rotary motion given to individual potatoes by the movement of the disk, and this latter result was accomplished by the presence of the raised portions of the disk.

[2] Defendant's insistence that a striated portion cannot be flat, and that a surface cannot be striated, unless it has long lines with valleys between, is erroneous, because well-known definitions of those words are much broader. The Century Dictionary defines "flat" as, "The flat part or side of anything, as the extended palm and fingers of the hand," and, "In the common use of the word, levelness or horizontalness is implied," "especially, a level plain, a field." While most of the disks before us are somewhat saucershaped, yet clearly there are large portions of their rough, abradant surfaces that would be called and are flat. "Stria" is defined in the Century Dictionary as a furrow, channel, or hollow. Among Allen's synonyms for "furrow" are depression, rut, and wrinkle, and for "hollow" are hole, concave, cup, pocket, dimple, etc., so that under the Century definitions as well as under the Standard Dictionary definition, quoted in 262 Fed. 462, supra, the abradant surface used by defendant comes within the language of the claims here in issue. The inventor is not at all confined to raised lines with valleys between them, as shown in the drawing in the patent of the preferred form of disk. It is very apparent that both plaintiffs' and defendant's disks present an abradant surface full of little hollows, cups, pockets, or concavities, within the well-known understanding of those words, and we are of opinion that the abradant surface used by the defendant is an infringement of the "striated" portion of plaintiffs' claims, without the allowance of any equivalents permissible to plaintiffs.

Claim 1 of Patent No. 942,932 here involved, in so far as disclosed by the record, has not been before the courts. An examination of the evidence relating to this claim compels us to affirm the judgment of the trial court that it was not anticipated by the Archer use, or the Archer patent, or otherwise, and also that it is infringed by defendant's disk. It appears that Robinson discovered difficulties entailing some loss in the peeling of small potatoes, that were ground up between the edge of the disk and the container sides, and it also developed that, by an improvement that would throw the small potatoes and all potatoes toward the center of the container, not only would the small potatoes be saved from being ground up, but the movement of the whole mass would be such that every potato would be peeled better and with less waste. To accomplish those purposes, an upturned lip was provided at the outer edge of the disk and the humps were made scoop-shaped. Starting at the top of the lip, the hump slopes down to the center of the disk, so that the potatoes are thrown upwards, and in towards the center. We are of opinion that this shows a useful advance in the art, and that the claim is valid and infringed.

The judgment is affirmed.

U. S. Circuit Court of Appeals—Seventh Circuit.

THE BACKSTAY MACHINE & LEATHER CO. *v.* ZENITE METAL CO.

PATENTABILITY—INVENTION NOT ANTICIPATED.

A strip or welt which gained instant recognition and rapid increase in sales, said strip having parallel cords so attached thereto that they tend to resume their close-together position after being spread apart for the insertion of a tack, is not anticipated by a patent which discloses corded welts inserted into a seam which joins fabrics, the alleged anticipating invention not being designed as a separate product to be attached to some other object or so constructed that it is adapted to that use and not so constructed that the cords are inclined to move toward each other, both being inclined in the same direction, there being no occasion for inclining the cords toward each other.

APPEAL from the District Court of the United States for the District of Indiana.

Mr. Henry D. Williams, Mr. William E. Dyre, and *Mr. Hervey S. Knight* for the appellant.

Mr. Arthur M. Hood for the appellee.

Before ALSCHULER, EVANS, and PAGE, Circuit Judges.

ALSCHULER, *Cir. J.:*

The appeal is from a decree of the district court dismissing for want of equity appellant's bill charging infringement of United States patents to Schemmel, Nos. 1,226,600, May 15, 1917, and 51,804, February 19, 1918. Both relate to the upholstery art, the first being for a finishing welt for use mainly in trimming of automobile tops and bodies, furniture and the like, and the second a design for same. The following figure is a perspective of the device:



To the left is the strip in normal position, 2 being the parallel raised cords or beads so attached to the body that they may be spread apart and, when the spreading force is removed, spring together closing over and concealing the tacks or other fastening agent driven through the body of the strip as shown at the right of the figure, where the beads appear spread apart and the tacks 6 inserted.

Figure 4 of the device patent shows a cross section of the strip or welt in place, the beads or raised parts 2 sprung back to normal position concealing the inserted tack 6 whereby the welt is attached to the article.



The design patent strictly follows the lines of the normal strip or welt as shown.

All six claims of the device patent were sued on. Of claims 1, 2, 5 and 6, claim 1 is typical:

As a new article of manufacture, a welt comprising a body, and longitudinally parallel beads superimposed on and connected with the body, the body being constructed and arranged to permit of the beads being spread apart and subsequently resuming their close-together positions for the purpose set forth.

Claims 3 and 4 are combination claims for "the combination of an article, a welt," the welt being described as in the other claims.

The district court found both patents invalid, largely, if not entirely, as appears from the record, upon the opinion of the Circuit Court of Appeals of the First Circuit, affirming a decree finding both patents invalid, in an action where both were directly involved just as here. (*Backstay Machine & Leather Co. v. Hamilton*, 262 Fed., 411; 278 O. G., 710; 1920, C. D., 397.) The transcript of the record in the first circuit case was by stipulation before the district court here, supplemented by further evidence for appellant, mainly of the commercial success of Schemmel's welt.

As to the design patent we unhesitatingly find that the conclusion reached was correct. Ornamental designs of parallel pipings or beadings such as shown are old, and there was evidence of long prior use of a strikingly similar design, as an ornamentation for certain parts of harness, whereby the design in question was, in our judgment, fully anticipated.

With the conclusion reached as to claims 3 and 4 of the device patent we are likewise in accord. Whatever of novelty there is resides wholly in the welt itself. There is not the suggestion of a new or different result flowing from the combination of this welt with the article to which it is attached. Any one of numerous welts long in the art could be employed where this one is used, and when applied the combined result would be the same. Whatever difference there is between this and the other welts would be wholly in the welt itself, whereby in this it is more readily applied, and the tack or other fastening means more simply and effectually concealed.

Respecting the other claims, however, we reach with much reluctance a conclusion differing from that as heretofore adjudicated in the first circuit upon practically the same state of facts,—reluctant, not only because hesitating to disturb adjudications of district courts in our own circuit, but also because of the consideration and the opposite conclusion reached by the courts in the first circuit.

The sartorial and upholstering industries have long shown ornamental pipings and beadings, and separate welts or strips for such use, having such cording and piping, was old therein. There are those where the cording appears wholly as a matter of ornament but unrelated to the concealment of the tack or other means whereby the strip is attached to the article. Some of these strips show flaps which are raised for the insertion of the fastening agent, and then the flap in turn is fastened down either by tacks with ornamental heads, thus concealing the fastening tacks, or some sticking agent, such as Hagan, Patent No. 303,840, 1884. But none of these show the novelty which resides in the Schemmel device, namely, parallel rows of cording or piping adapted to be lifted up and apart from each other for the convenient insertion between them of the tack and the then tendency of the parallel cords to resume their normal close-together position concealing the tack or other fastening agent. In this the courts in the first circuit substantially agree, and the circuit court of appeals, quoting from the opinion of the district court, said:

> Concealed tack moldings are old, and have been made in various forms; but none of the devices that have been called to my attention, with a single exception, have embodied the characteristics of the palintiff's device. The exception to which I refer is the product of a machine upon which a patent was granted to Alvin B. Felt, November 18, 1879, in United States Letters Patent No. 221,801.

It is true that in the opinion of the court of appeals it was said—

> we are not confined to a consideration of the patent to Felt only, but that we should consider the prior art as disclosed by the whole record.

However, nothing else in the prior art was referred to, and the opinion proceeds to quote with approval from the discussion of the Felt patent in the opinion of the district court.

We have carefully examined every device to which the evidence refers, and apart from the Felt patent find nothing whereby the claimed novel feature in Schemmel is anticipated or disclosed. The Felt patent is for an attachment to a sewing machine whereby corded welts are mechanically formed and inserted into a seam which joins fabrics. No novelty was claimed for the product, but only for the device whereby the seam was produced with its inserted cord or cords. But the contention is made that the product anticipates Schemmel's welt, or, in the light of Felt, that invention was not involved in its producing. Felt's product is shown in his Figure 4.



It was not designed to be a separate product to be thereafter attached to some other object or article. On the contrary, the product of Felt's attachment was a completed seam with the inserted ornamental cords or pipings. The fabric D D′ into the connecting seam of which the cords F E are inserted as formed by means of Felt's attachment involved a single operation whereby the sewing machine forms the welts or cords and sews them into the seam whereby D and D′ are joined. Felt had no problem of forming, as a commercial product, corded strips for thereafter attaching to other articles. He was concerned only with the operation of mechanically forming the piping into the seams. If he had undertaken to make in this manner strips or welts for ornamental use on other articles, it is not likely this product would have been adapted to that use, since it shows seven thicknesses of material on one side of the seam where the fabric is joined, and but one thickness on the other. A strip of this kind would be but illy adapted to be used in the manner of ornamental welts and strips such as are here involved. Besides, the projecting cords so produced are not inclined toward each other, but are both inclined in the same direction,—sufficient, to be sure, to show two ornamental cords interposed in a seam, but not adapted to be spread apart for the insertion of a tack or other fastening means to hold the welt to the article, and automatically conceal the fastening means. This difference was referred to in the first circuit case. The court of appeals, quoting from the district court opinion, said:

> It (Felt) discloses two parallel beads or cords superimposed upon a base and close-together, only one of which is capable of being moved back from the other, and, on being released, resuming or tending to resume its normal or close position to the other bead or cord.

It was there further said (quoting from the district court opinion) that to reverse this other cord so the cords would incline towards each other, did not involve invention, and thereupon the claims were held invalid.

Even if Felt's device could have been reconstructed to produce parallel cords which would incline towards each other, it does not appear that there was occasion for it in the product he had in mind. For the purpose of interposing a cording in the seam it was immaterial whether or not, if two of them, they inclined toward each other. There was no occasion for spreading them apart, and hence none for their normal inclination toward each other.

The utility of a product such as Schemmel's is conceded. It would no doubt have had equal utility in 1879 when Felt made his disclosure; and with the rapid growth of the automobile industry the demand for such a product became increasingly strong. Felt had made his revelation, and many others were in the same art in which Schemmel wrought. But to none of them occurred the "happy thought" of taking Felt's product and reversing one of the cordings or pipings so that the two would incline toward each other, making of it a welt for application as indicated. From all that here appears it remained for Schemmel to do this, and the almost instant recognition of his contrivance in the extensive sale of it, which has rapidly grown to millions of feet annually for use on automobiles alone, to us strongly suggests the quality of invention in his conception.

We are forced to the conclusion that Felt did not anticipate, that invention was involved in the conception of the Schemmel device, and that claims 1, 2, 5 and 6 of this patent are valid.

Infringement being practically conceded, we conclude (1) that the decree of the district court should stand in so far as it finds invalid Patent No. 51,804, and claims 3 and 4 of Patent No. 1,226,600; (2) that as to claims 1, 2, 5 and 6 of Patent No. 1,226,600 a decree should be entered finding the last-named claims valid and infringed, and decreeing relief accordingly. The decree is reversed and the cause remanded with direction to the district court to enter a decree in conformity herewith.

U. S. Circuit Court of Appeals—Second Circuit.

P. E. SHARPLESS CO. *v.* CRAWFORD FARMS, INC.

Decided January 8, 1923.

[287 Fed. Rep. 655.]

1. PATENTS—FOOD PRODUCT MAY BE PATENTABLE—"NEW AND USEFUL COMBINATION OF MATTER."
   An improved composite food product and method of making the same may be patentable as a new and useful combination of matter.
2. SAME—MIXTURE MAY BE PATENTABLE.
   A patentable composition of matter may be formed by the intermixture of two or more ingredients which develop a different or additional property or properties which the several ingredients individually do not possess in common.
3. SAME—1,258,438, FOR CHEESE BLEND, VALID AND INFRINGED.
   The Nusbaum patent, No. 1,258,438, for a process of blending cheese and the resulting product, which is a soft cheese, but having the flavor and taste of Roquefort, *Held* valid and infringed as to claim 1, for process, but invalid as to claims 4 and 5, for product.
4. TRADE-MARKS AND TRADE NAMES AND UNFAIR COMPETITION—SIMILARITY OF PACKAGES HELD NOT SUCH AS TO CONSTITUTE UNFAIR COMPETITION.
   Similarity of defendant's packages to complainant's in size and style of wrapping *Held* not to constitute unfair competition where each was clearly marked with the maker's name and there could be no confusion by ordinary purchasers.

APPEAL from the District Court of the United States for the Southern District of New York.

Suit in equity by the P. E. Sharpless Company against the Crawford Farms, Inc. Decree for defendant, and complainant appeals. Reversed in part.

Mr. Hector T. Fenton for the appellant.

Messrs. Munn, Anderson & Munn (*Mr. T. Hart Anderson* of counsel) for the appellee.

Before ROGERS, MANTON, and MAYER, Circuit Judges.

MANTON, *Cir. J.:*

Appellant sues for infringement of Patent No. 1,258,438, granted to Nusbaum, applied for May 22, 1917, and granted March 5, 1918. It is a grant of a monopoly for a process and a product. The bill also asks for injunctive relief, claiming unfair competition in trade in the packaging and marketing of the product.

The appellant is a Pennsylvania corporation and makes cheese and sells the same commercially in packages. The appellee is a New York corporation and also makes cheese and markets the same commercially in similar-sized packages. The inventor, Nusbaum, says he invented the new composition of matter and process of producing it in the autumn of 1916. In the trade, there are two types of cheese, one soft and uncured, and the other hard and cured. These were not thought to be capable of blending into a single composition. The desirability of the invention was, if possible, to retain the physical character of the soft and uncured element, and impart to it the characteristic taste and flavor of the cured cheese, without its physical presence in the composition. He says in the specifications of the patent that his invention relates to the production of a new variety of soft or uncured cheese, and it results in a new composition of matter having for its principal object to impart to the composition the characteristic flavor of the well-known Roquefort cheese, combined with and modified by the commercial soft or uncured cream cheese, made usually from unskimmed milk, while retaining the characteristic physical and other inherent qualities which identify the latter, and to this end the composition of matter consists of elements stated and combined in the manner and substantially in the proportions set forth. The inventor says:

> • • • My invention, however, comprising, not only the new product as such, but the process or method of producing the same. • • • Beginning with any variety of soft cheese, which is classified as cream cheese because made from whole or unskimmed milk, and hence containing not less than 20 per cent of butter fat, but which I prefer to make in the best commercial form, by the addition of sufficient cream to increase its butter fat constituent to a percentage varying from 30 to 40 per cent. I make my new composition of approximately eight-ninths parts thereof and approximately one-ninth part of standard commercial Roquefort cheese. Allowing the latter to become sufficiently dried to be friable and

crumble readily, I comminute it to practically pulverization, which may be done by any convenient and known means. Then placing the soft cream cheese elements in substantially the proportion stated, in a revolving blade mixer, commonly used in certain branches of this art, or other equivalent mixing device, the other one-ninth part of the intended resultant composition, consisting of the comminuted Roquefort cheese, is then gradually added, as the mixer blades revolve, but in small quantities, and from time to time, so as to insure the soft cheese taking it up and thereby effecting a complete blending of said constituent elements. This step in the process is apt to impart high temperature to the mass, and a partly consequent reduction in density, in consequence whereof I allow the amalgamated mass to cool sufficiently to restore its normal temperature and density, and then, if the resultant composition shows any signs of not being perfectly smooth, the last-described step of the process of blending above described is repeated either in the same machine or preferably in any suitable and known form of grinding machine adapted to be used for the purpose of reducing any lumpy particles in a composition of matter of like character.

After this the composition is sufficiently hard to be molded into small cylinders or rectangular cakes. The identifying characteristics of a homogeneous composition wherein the cured element, the Roquefort cheese, has not only lost its physical characteristics as such, but has imparted such part of that quality to the resultant composition, so as to increase the keeping qualities and obtained the flavor and taste of the Roquefort cheese, it has the characteristics of the soft cream cheese, and is capable of being molded into the commercial form required, and is then wrapped in tin foil and sold.

The first and second claims of the patent are for the process, and the third, fourth, and fifth are for the product. The claims of the process are:

1. The process described of producing a homogeneous composite of soft uncured cream cheese and cured Roquefort cheese, which primarily consists in combining approximately eight parts by weight of the former with approximately one part by weight of the latter previously reduced to dried and substantially pulverized condition, and blending the elements of the mass under movable contact in a suitable mixing machine.

2. The process described of producing a homogeneous composite of soft uncured cream cheese and cured Roquefort cheese, which consists in adding approximately one part of dried and substantially pulverized Roquefort cheese in small quantities, from time to time, to approximately eight parts of soft uncured cream cheese, during combination of the elements of the mass under suitable mechanical admixture; then restoring the normal temperature and density of the resultant mass by cooling, and finally molding the same into commercial form, substantially as described.

The statute provides for the grant of a patent to "any person who has invented or discovered any new and useful * * * composition of matter, or any new and useful improvements thereof," or any "new and useful art * * * or any new and useful improvements thereof" ("art" interpreted to mean method or process). (Comp. St. Sec. 9430.) What the inventor has done by his process is not merely admixing two radically-different ingredients normally incapable of admixture and not known to be miscible, nor is it for a method of effecting a general combination or composite of them, but is for producing a specific combination of them wherein one element acts on the other to produce an ultimate product.

It results in one of these elements (cured cheese) physically disappearing while imparting flavor and some of its preservative character as cured cheese to the other element (uncured cheese) and thus producing a composition. It is the process that accomplishes this result. It is done by employing specific relative proportions of them by drying the cured and hard element and reducing it to a pulverized state, and by a true blending of them which is obtained by passing that admixture, so prepared, through relatively movable contacting mechanical elements. In the ordinary and typical case, the method and product are separate inventions. A machine may be new, and the product or manufacture proceeding from it may be old. In that case, the former would be patentable, and the latter not. The machine may be substantially old and the product new. In that event, the latter and not the former would be patentable. Both may be new or both may be old. In the former case both would be patentable, and in the latter neither. (*Providence Rubber Co.* v. *Goodyear*, 9 Wall. 788, 19 L. Ed. 566.)

[1] Did the inventor teach the art something new? And did the product become recognized by those familiar with the art as a new and useful thing? If so, then that result should be resolved in favor of patentable novelty. The question is presented of whether or not a food product or a process of producing it may properly be considered as the subject-matter for the grant of a patent, within the meaning of the statute authorizing the grant for a new and useful composition of matter, or "any new and useful improvement thereof" (as to the product), or any new and useful art, being interpreted to mean or include a method or a process within the lay meaning of those terms. It is to be observed Congress provided for invention in respect "of composition of matter" as one of the four classes of invention. There is no restriction as to the nature of the composition which may be patented. The only limitation is they must be new, useful, and the result of invention.

[2] We think the meritorious result of a method or process has been disclosed by what the inventor here conceived. It is new. It should be given patent protection. A patentable composition of matter may well result or be formed by the intermixture of two or more ingredients, which develop a different or additional property or properties which the several ingredients individually do not possess in common. In *Cochrane* v. *Deener* (94 U. S. 780, 24 L. Ed. 139, 11 O. G., 687) a process was described as:

> A mode of treatment of certain materials to produce a given result. It is an act, or a series of acts, performed upon the subject-matter to be transformed and reduced to a different state or thing. If new and useful, it is just as patentable as is a piece of machinery. In the language of the patent law, it is an art. The machinery pointed out as suitable to perform the process may or may not be new or patentable; whilst the process itself may be altogether new, and produce an entirely new result. The process requires that certain things should be done with certain substances, and in a certain order; but the tools to be used in doing this may be of secondary consequence.

We think a method or process of blending two ingredients (cheese), which is recognized in the art as distinctly different in character and also as normally nonmiscible or capable of blending, and effecting their blending and transformation of one ingredient by the pulverization of one of them and a union of them under moving mechanical contact followed by increasing the density of the resultant mass by refrigeration, so as to enable them to be molded into a fitting commercial form, constituted invention of a process which is patentable.

The defense of prior uses is interposed. Two witnesses testified that they mixed for their own use at their respective homes some years ago, and again one of them during the recent war, French Roquefort cheese and cottage cheese or cream cheese. They sliced the Roquefort with a knife and then added the other cheese to it and mixed the two with a spoon. This was done in proportions of about one part of Roquefort and four of cream cheese. None was sold. Another witness used an old and well-known admixture of Cheddar and Roquefort, both cured cheeses. The proportions and method of admixture and the characteristics of the product were not stated. This was sold commercially as McLaren's cheese. In this test there was nothing that demonstrated plaintiff's process or result.

The record shows that a British patent was granted to one Blake (No. 3,919) in 1897, and it is referred to as a new and improved article of food. He described taking a hard cured cheese and having removed the rind crushed it "between rollers or otherwise" and to 80 parts of this he added 20 parts of cream, which is three-fourths crushed hard cheese to one-fourth of ordinary cream, not cream cheese, in the finished product. He declares the object and effect of this admixture is it "enables a person of poor digestion to eat cheese without any inconvenience" and "aids the process of mastication and digestion." The result of this probably was a Roquefort cheese, coarsely crushed and diluted with cream. It did not blend with that of another of different type. The art may be simple, and the forward step may seem simple, and may not be regarded as one commanding the attention of the highly-trained scientific mind; but the effort, in deciding the queston of invention, must be to view the subject matter from the standpoint of the art concerned. (*Kurtz* v. *Blatt*, D. C., 263 Fed. 393.) We think that something new was taught the art by this process, which raises it to the dignity of invention.

[3] The appellee's witness substantially identifies its process in every step, including the blending of the initial ingredients and its manufacture. All the steps of its process being in the same order as the appellant's, like proportions of ingredients used and employing the same or equivalent elements at some points in the process, makes out the claim of infringement. We think that claim 1 of the process should be held valid and infringed, but that claims 4 and 5 of the product should be held invalid.

[4] The appellant complains that the appellee's cheese packages are so close a copy of the appellant's cheese packages as to amount to unfair competition, but there is no evidence introduced by the appellant of actual confusion. There is no resemblance of one package to the other, other than that of size, which would not cause confusion. The respective packages are clearly marked showing their origin and the manufacturer's name stamped thereon. There could be no possible confusion by the ordinary purchaser. (*Smith-Kline & French Co.* v. *Amer. Druggists Syndicate*, C. C. A., 273 Fed. 84; 289 O. G. 1023; *Cantrell* v. *Hygeia Distilled Water Co., Inc.*, 283 Fed. 400, decided Jan. 18, 1922, C. C. A. Second Circuit.) The fact that they are wrapped in tin foil and dipped in paraffin as a preserver does not support appellant's claim.

Decree modified accordingly.

U. S. Circuit Court of Appeals—Sixth Circuit.

EXCELSIOR STEEL FURNACE CO. *v.* WILLIAMSON HEATER CO.

Decided January 9, 1923.

[286 Fed. Rep. 131.]

1. PATENT—1,026,607, FOR CONNECTION FOR HOT-AIR PIPE, VOID FOR LACK OF INVENTION.
   The Scherer patent, No. 1,026,607, for a connection for hot-air pipe, *Held* void for lack of invention.
2. SAME—JOINING TOGETHER OLD ELEMENTS WITHOUT NEW FUNCTIONS NOT INVENTION.
   The selecting and putting together of the most desirable parts of different devices in the same art, making a new structure better than any which preceded it, but in which each part operates in substantially the same way as in the old and effects substantially the same result, is not patentable invention.

APPEAL from the District Court of the United States for the Western Division of the Southern District of Ohio; John W. Peck, judge.

Suit in equity by the Excelsior Steel Furnace Company against the Williamson Heater Company. Decree for defendant, and complainant appeals. Affirmed.

STATEMENT OF THE CASE.

Suit for infringement of patent. Plaintiff appeals from a decree finding the claim in issue invalid for want of patentable invention. The following is the opinion of District Judge Peck:

> Bill in equity to enjoin the infringement of claim 5 of the patent to Albert G. Scherer, No. 1,026,607, May 14, 1912, for a connection for sections of hot-air pipe. The answer denies invention, novelty, and infringement; avers anticipation, estoppel by file wrapper history, and misrepresentation and concealment in procuring the patent. The subject-matter of this patent is a connection for hot-air pipe, that shown in the drawing being a section adapted to connect the round pipe of a furnace usually found in the basement of a house heated by hot air with the rectangular pipe ordinarily concealed in the wall.[1] It was old to make such a connection by means of a round pipe having a rectangular end cut away at the corners, with S-hooks attached by diagonal crimping to form pockets into which the next section of pipe could be fitted. To this well-known construction, which constitutes all but one element of the claim in question, the patentee added notches in the S-hooks, and thus completed his claim. The purpose stated for the notches is that of exposing to view from without a portion of the interior and adjoining section of pipe when in position. In this respect the notches perform no useful function, as the adjoining section is quite visible at the corners and ends without them. Their real purpose was to admit of the insertion of corresponding tongues cut in the material of the connecting section, which tongues, when turned back, would hold the sections firmly together. The notched S-hooks, as a means of joining pipe sections, were also old. They are found to

[1] Claim 5 (not quoted in the district judge's opinion) reads thus: "5. A connection for hot-air stack comprising a pipe having an area at one end of rectangular cross-section, the corners adjacent the ends being split and cut away, pieces of metal folded over and secured to the ends of said pipe upon two opposite sides by crimping the fold and the end included therein diagonally, said pieces of metal being extended on the outside of said pipe beyond said crimped portion, said extended portion being folded back upon itself to form pockets having notches in the bottom thereof adapted to expose to view from the outside of the pipe a portion of the adjoining section when in position within said pockets."

be described in Smith's patent of November 24, 1896, upon a stovepipe. Smith's invention seems to be workable, despite plaintiff's claim to the contrary. A similar fastening by means of the notched S-hook had long been used by the Whittaker-Glessner Company, of Wheeling—in a reversed position, however—for preventing the collapse of stovepipe. What Scherer did, therefore, was to take an ancient form of connecting section for hot-air pipe, bearing S-hooks, and add thereto equally ancient notches in those hooks, for fastening the next section. It was a combination of old elements. Each element worked just as it had before. Neither added to the former function or effect of the other. In combination, they had no new function or result. It was a well-chosen selection of the several elements from the existing art with coordinate action, and therefore not patentable invention. (*Edwards* v. *Dayton Mfg. Co.*, 257 Fed. 980; 169 C. C. A. 130; 266 O. G. 597; *Huebner-Toledo Breweries Co.* v. *Matthews Gravity Carrier Co.*, 253 Fed. 435; 165 C. C. A. 177; *Elite Mfg. Co.* v. *Ashland Mfg. Co.*, 235 Fed. 893; 149 C. C. A. 205; 234 O. G. 374.) It is concluded that the bill must be dismissed at plaintiff's costs.

Mr. Benjamin T. Roodhouse (*Mr. John A. Brown* and *Mr. Wm. F. Madden* on the brief) for the appellant.

Mr. Walter F. Murray for the appellee.

Before KNAPPEN, DENISON, and DONAHUE, Circuit Judges.

PER CURIAM:

[1] In our opinion the decree of the district court is clearly right. It is not denied that the art prior to Scherer showed, not only every element of the claim in suit, but all the elements except the last (the notches) in combination. It is not of substantial importance that the Smith prior patent disclosure and the Wheeling prior use of the notch feature were applied to round pipe, rather than, as by Scherer, to rectangular pipe; nor that, in one form of the Wheeling structure, in bending the tongues through the notches, the room for manipulation was restricted. The uses were in the same art, and in our opinion the application of the existing notch feature to rectangular pipe involved only mechanical skill, even if of a high order—a conclusion not substantially weakened by the lapse of time between the Smith and Scherer disclosures. Scherer was thus not the first to dispense with soldering in the general art to which his patent belongs.

[2] The question of aggregation aside, we think the case falls squarely within the rule that the selecting and putting together, even by the exercise of a high degree of mechanical skill, of the most desirable parts of different devices in the same art, making a new structure, though better than any which preceded it, but in which each part operates in substantially the same way as in the old and effects substantially the same result, is not patentable invention. (*Railroad Supply Co.* v. *Elyria Iron Co.*, 244 U. S. 285; 37 Sup. Ct. 502; 61 L. Ed. 1136; 239 O. G. 656.)

The judgment of the district court is affirmed.

U. S. Circuit Court of Appeals—Second Circuit.

HARMON PAPER CO. *v.* PRAGER ET AL.

Decided February 3, 1923.

[287 Fed. Rep. 841.]

1. PATENTS—DESIGN PATENT 54,152 INVALID FOR WANT OF INVENTION.

Design Patent No. 54,152, for a design for wall paper, *Held* invalid for seeking to cover with this patent all paper resulting from claimant's method of manufacture.

2. SAME—"INVENTION" CONSISTS IN NEW AND USEFUL MEANS TO ACCOMPLISH END.

The object or end sought to be accomplished is not the subject of patent, but "invention" consists in a new and useful means of obtaining an end.

3. SAME—1,344,570 HELD INVALID FOR WANT OF INVENTION.

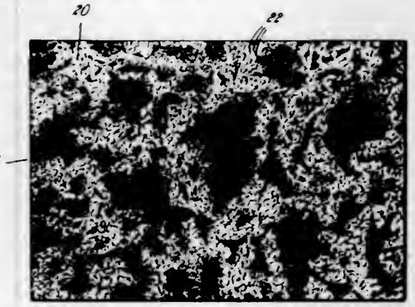
Patent No. 1,344,570, for wall paper by the use of an old oatmeal base and an old blending stock, forming a cloud effect on a light-reflecting base, *Held* invalid for want of invention, the result attained being but an attractive rearrangement of old matter by old means.

APPEAL from the District Court of the United States for the Eastern District of New York.

Suit in equity by the Harmon Paper Company against James G. Prager and another, doing business as the Prager Company, for infringement of patents. From a decree dismissing the bill (286 Fed. 267), the plaintiff appeals.

STATEMENT OF THE CASE.

Suit is upon patent to Warren, 1,344,570, dated June 22, 1920 (claims 2 and 3), and also upon design patent to the same Warren, 54,152, dated November 4, 1919, whereof the claim is "the ornamental design for wall paper as shown." What is shown is printed below:



The applications for the two patents were filed the same day (August 14, 1918) and the article, substance, or device sought to be covered by both patents is the same.

The claims in suit from 1,344,570 are as follows:

2. A wall paper having a base with a light reflecting surface broken up by wood flour, and a blending stock forming a cloud effect thereon.

3. A wall paper having a base of paper stock mixed with a material breaking up the light-reflecting surface thereof, and also having a blending stock forming a cloud effect on the top surface of the base.

The application is for "wall paper and method of making it," but the method claim is not relied upon; patentable invention is said to reside in the thing or article described in the quoted claims as a new object of manufacture.

The patentee stated in the specification that his invention was—

based on the *discovery* that a wall paper having a soft and pleasant decorative appearance, together with a texture and body making it well suited to the operation of hanging and to use as a wall covering, may be produced by flowing a thin cloudlike coating of a blending paper stock onto a paper base, the surface of which has been broken up or roughened visually by incorporating with the said surface, or with the paper base as a whole, small particles, as of wood flour of a color contrasting with the paper base, and which interrupted the otherwise smooth light-reflecting surface thereof.

The patented product as claimed by the claims in suit is thus described in the specification:

The paper so produced [has] a cloudlike effect of visionary depth, pleasing to the eye, in that it is soft and impressionistic as a whole, rather than glaring and intensely detailed.

Other matters of fact will be referred to in the opinion. After hearing, the trial judge dismissed the bill on both patents, holding that both the claims in suit were invalid and that the design patent was (a) invalid when construed in the sense claimed by the plaintiff; and (b) if construed as valid for the pattern shown, was not infringed by defendant. Thereupon plaintiff appealed.

Messrs. Pennie, Davis, Marvin & Edmonds (*Mr. William H. Davis* and *Mr. George E. Middleton* of counsel) for the appellant.

Messrs. Briesen & Schrenk (*Mr. Hans v. Briesen* and *Mr. Fred A. Klein* of counsel) for the appellees.

Before ROGERS, HOUGH, and MANTON, Circuit Judges.

HOUGH, *Cir. J.* (after stating the facts as above):

[1] We are agreed that no error was committed in declaring the design patent void. It is asserted for plaintiff that there must be infringement, because—

no ordinary observer, giving such attention as a purchaser usually gives, would notice any difference between the paper sold by defendant and that *patented* by plaintiff.

But plaintiff did not patent a wall paper, but a "design for wall paper," and the test is not to compare defendant's paper with plaintiff's paper, but with the design; if that be done, there is no infringement. But what plaintiff really seeks is to cover with this design patent all paper resulting from the method of manufacture above described. This can not be done. (*North, Etc., Co.* v. *Racine, Etc., Co.*, C. C. A., 271 Fed. 936.)

If it be said that the design covers all paper looking in pattern (to speak loosely) like the design (i. e. marbleized paper), and possessing "visionary depth," and also "soft and impressionistic rather than glaring," it is enough to note that no such possibilities or scope can be spelled out of the design specification. Whether it would be legally possible to procure such a design patent need not be considered.

The decree is affirmed as to this patent.

A majority of this court are of opinion that the trial judge was right in declining to find invention in the claims in suit from the other patent. It is admitted that the method and means of producing wall paper responding to these claims are not now in controversy; the question is whether the article defined exhibits patentable invention.

[2] But any article or product is a result, and a claim is to be read in conjunction with its specification; it follows that solution of the question of invention, even as to a product, requires investigation of the means of production.

The end to be accomplished is not the subject of a patent. The invention consists in the new and useful means of obtaining it. (*Carver* v. *Hyde*, 16 Pet. 513, 519, 10 L. Ed. 1051.)

This is the long-established general rule, and although what are called "product patents" are well known, their validity and scope are usually ascertained by analysis of the manner of production. Of this the leading product patent case in this circuit is a striking example. (*General Electric* v. *Laco-Phillips*, 233 Fed. 96, 147 C. C. A. 166.)

How this patented paper is produced, and how it came to be made, are matters certainly known from the uncontradicted evidence of the patentee. It is manufactured on and by a machine long well known, which functions in making this paper just as usual. That machine carries on its "Fourdrinier wire" a paper base equally well known and even older, which base is sprinkled with "wood flour" or ground-up wood, and over such sprinkled base moving at usual speed, is flowed a "blending paper stock" well known to the trade. But further a paper base sprinkled with wood flour had long been an article of commerce under the name "oatmeal paper," and a plain paper base flowed with blending stock had long been another such article under various names; generically the product was "marbleized paper." What the patentee did was to flow old blending stock over oatmeal paper, and find in the product a commercial success.

It follows that the claims in suit might truthfully and accurately be compressed into one, reading thus:

A wall paper having an old oatmeal base, and an old blending stock forming a marbleized effect thereon.

The result of thus handling old materials is to change the light effects, by changing the reflecting surface; i. e., roughening it. Optically something of the same kind may be observed by comparing a rough plaster wall when colored, with a similar wall, similarly colored, but smooth.

We may assume with plaintiff that the success of this paper is very marked, and that the "soft and impressionistic visionary depth" thereof is most pleasing to the eye; we may further assume (and here also we are agreed) that the prior wall paper art shows no paper made in exactly the same way; yet the question of fact remains whether all this reveals invention, or whether it was no more than the skill of a mechanic plus the taste of a good salesman.

[3] We find that the patentee has made an attractive rearrangement of old matter by old means, and such rearrangement has spelled commercial success. This is the best that can be said for the patent, and it is not enough.

Undoubtedly success such as is proven is evidence of invention; how potent differs with surrounding circumstances, but it never can constitute invention in and of itself. There must always be some mechanical, chemical, electrical (or the like) component in the inventive concept, some technical achievement on which to build. It may be very small, yet when viewed through the eyes of the trade or business affected, and helped by commercial success, it may attain to patentable invention. Our recent decision in *Kurtz* v. *Belle, Etc., Co.* (280 Fed. 277) is an excellent example. But we think no instance can be found in the books of patentable invention found, with absolutely no mechanical (or the like) cleverness to support it.

Of course, that is a question only of fact; but here we can discover nothing but a style, a mode or fashion that caught the public fancy. The matter

seems to us exactly like the so-called "paper collar cases." (*Collar Co.* v. *Van Deusen*, Fed. Cas. No. 14,395, 10 Blatchf. 109, affirmed 23 Wall. 530, 23 L. Ed. 128.)

As the essence of the paper collar patent was the simulation of linen, so the essence of this patent is the simulation of cloud effects; it is a patent of illusion, as was the imitation of cloth fabrics considered in *Simplex, Etc.*, v. *Renfrew* (250 Fed. 863, 163 C. C. A. 177, 255 O. G. 367.) Indeed, if the citation of the collar company case be followed through the years, the thought is plainly seen that mere novelty or attractiveness of shape or form needs a substratum of some technical ingenuity to rise to patentable invention. (Cf. especially *McCloskey* v. *Du Bois*, C. C., 9 Fed. 38, 19 O. G. 1286, and *MacKay* v. *Jackman*, C. C., 12 Fed. 615, 22 O. G. 85, two well-reasoned decisions of Wheeler, J.) We add that it is not without weight that, could this patent be sustained, any other variant of paper base, wood flour and blending box, giving (if wanted) storm or sunshine or fog effects, would be equally patentable.

The foregoing renders it unnecessary to consider the point of noninfringement on the ground that defendant's paper obtains result from a bleach and not a blend. We have considered the opinion of Geiger, J., in *Harmon, Etc., Co.* v. *Kimberly Clark Co.* (— Fed. —), and agree with his result; we have not found it necessary to dwell on the file wrapper contents.

Decree affirmed, with costs.

MANTON, *Cir. J.* (dissenting):

Appellant sues for infringement of Patent No. 1,344,570, which is for wall paper and the method of making it. The patent was applied for August 14, 1918, and granted June 22, 1920. He also sues upon Design Patent No. 54,152 for wall paper granted November 4, 1919.

The first claim of the patent in suit is for the method of making the wall paper and is not involved here, for the appellee did not manufacture the infringing product but imported it from Germany. Claims 2 and 3 are for the product and read as follows:

2. A wall paper having a base with a light reflecting surface broken up by wood flour and a blending stock forming a cloud effect thereon.

3. A wall paper having a base of paper stock mixed with a material breaking up the light reflecting surface thereof, and also having a blending stock forming a cloud effect on the top surface of the base.

The invention relates to the method of making wall paper with cloud effects of visionary depth and the product claims refer to wall paper produced by such method. The inventor says that he has discovered a wall paper having a soft and pleasing decorative appearance together with a texture and body making it well suited to the operation of hanging and to use as a wall covering. It is produced by flowing a thin cloud-like coating of a blending paper stock onto a paper base, the surface of which has been broken up or roughened by incorporating with the said surface or with the paper base as a whole, small particles, as wood flour, of a color contrasting with the paper base and which interrupt the otherwise smooth light reflecting surface thereof. Wood flour, which is ground wood, is mixed with the base or main paper-pulp stock and is flowed over the Fourdrinier wire in the way usual in such manufacture. The blending stock, finely ground and diluted with much water, is fed to a flow box mounted over the wire and flowed over the base stock while the latter is wet on the wire. There is distributed over the base by the raking action of the wood flour particles which form a cloud or mist on the finished paper. The paper is known in the trade as Harmonella. There are three elements in its manufacture. First, a base (the pulp body of the paper); second, wood flour (breaking up the light reflecting surface) and third, a blending stock (forming a cloud effect thereon). In claim 3, the wood flour is mixed with the base as in the oatmeal paper, and in claim 2, flour is flowed on the surface of the paper base. The wall papers theretofore made were made of two elements, a base and a blending stock. There were two main classes of wall papers, one known in the trade as "plain goods" and the other as "printed or stained goods." Most of the wall papers on the market fall in the second class. There is an indefinite variety in print or stained wall papers. Oatmeal papers are made by adding coarsely-ground wood, sawdust or wood flour to the paper stock before it flows out upon the Fourdrinier wire of the paper machine and the surface of the finished paper is so roughened by these little pieces of wood that an effect of softness is produced. Before the Harmonella paper, the oatmeal paper was popular. The marbleized papers are made by flowing a thin blended stock, usually white, above a plain base, usually colored, while the latter is wet upon the wire. This blend flows out upon the base stock forming large contrasting splotches upon the colored base, the result being a mottled paper resembling onyx or marble. Papers of this kind were used for wrapping and for cover paper, but they were not very successful as wall papers and the reason therefor is said to have been because it is a hard cloudy paper adapted for paneling in public halls where simulation of marble is sought, but unsuited for dwellings and because it is hard to hang. It is hard to distribute the blending stock evenly over the base with the result that when the web of paper is cut into rolls for ultimate use, the large splotches do not match and the wall is streaked or barred. The inventor has succeeded because he conceived the idea of taking a wall paper made by flowing the blend over an oatmeal base—a pulp blended oatmeal. The wood flour solved the problem and the hard cold marble paper has the appearance of the visionary depth and what is described as a "pleasant warmth." The splotches of the marbleized paper were softened and dispersed into a kind of mist upon a soft oatmeal background, with the result that the paper was better adapted for hanging. It matched in perfect harmony; there were no streaks. This result was obtained because the little particles of wood projecting from the surface of the base stock on the wire, act as rakes to pull out the fibres of the blending stock and distribute them over the face of the paper not in white splotches, but in soft cloud effect.

The manufacture of this paper has made a very marked impression upon the trade. To the outsider it may seem trivial, but in the trade, it made for great commercial success. The increase in the sale of Harmonella paper, this record disclosed, was very marked. For example, the appellant's business from June 1, 1918, to April 1, 1919, was 749,957 pounds. During the 10 months period from June 1, 1921, to April 1, 1922, 3,405,451 pounds, which is an increase of 500 per cent in three years. In the month of March, 1922, 770,100 pounds were sold as compared with 106,201 pounds of oatmeal duplexes, which is the next-sought-for paper. Men familiar with this trade gave testimony of its unusual demand. Commercial success of this character is a criterion of invention. (*Smith* v. *Goodyear*, 93 U. S. 486, 23 L. Ed. 952, 11 O. G., 246; *Potts* v. *Creager*, 155 U. S. 597, 15 Sup. Ct. 194, 39 L. Ed. 275, 70 O. G., 494; *Mineral Separation Co.* v. *Hyde*, 242 U. S. 261, 37 Sup. Ct. 82, 61 L. Ed. 286, 234 O. G., 1311.) This demand was not brought about through an advertising campaign. Apparently the paper sold on its merit. Nor can it be said that it was due to a fashion or caprice of the public. It has continued and increased during a period of four years. It is more than a fashion, for fashions are not likely to last that long. I regard this as persuasive evidence of invention. (*Mineral Separation Co.* v. *Hyde*, supra.)

Even the smallest invention, if it merits the title, must meet an existing want, yet that want, invoking invention, may never be apparent until some previous invention, imperfectly satisfying the more universal want, discloses the subordinate and narrower need. (*Kimball Co.* v. *Noesting Pin Ticket Co.*, C. C. A. 262 Fed. at p. 149, 278 O. G., 709.)

To view this paper in the light of one not experienced in the art, it may seem trivial and unworthy of the dignity of patent protection, but looking at it with the eyes of one engaged in this trade, the patent represents a large and successful business. To them it is of the utmost importance. No one before satisfied this want and it has been done in simplicity and now has the compliment paid to it of imitation by others. (*Kurtz* v. *Belle Hat Lining Co.*, C. C. A., 280 Fed. 282.) I think that the patent is valid unless evidence of the prior art defeats it.

As evidence of prior use, four papers were offered in evidence. The Columbia duplexes were the only ones employed as wall papers; the others were not. The duplexes were similar to marbleized paper and when offered for sale as wall coverings were not accepted. They were sold before the war and after that were not used. Three patents of the prior art were offered. The first was the British patent to Imray, No. 6849 of 1904. The problem of that patent was to distribute the blend and to produce a separate marble paper by causing the blend pulp to move in a serpentine path to a distributing point and thence down an inclined plate and down to the wet paper base on the wires. This resulted in a marble paper, so called. The paper onto which the blend is flowed is a plain base on mixed wood flour. The Waite & Walker patent shows an effort on the problem of distributing the blend. The inventor did not use wood flour in the base to do it, and he did not get the threefold Harmonella effect. It was not a wall paper. The German patent to Lutz, No. 190,347, was for making a paper having a fixed design applied in pulp by means of a stencil cylinder. It is a two-ply paper, one of the plies being broken up into a figured design. By means of the stencil cylinder, definite sharp-edged pulp patterns were applied upon a wire screen. There is no blend corresponding to the blend as used in making the Harmonella and there is no flowing and no raking. It does not use the wood flour in connection with a pulp blend. It appears that these prior patents to Imray and Waite & Walker were cited in the Patent Office and the patent was granted over them. Therefore, a strong presumption of validity arises, from the granting of the patent after the rejection of these references to previous patents, which accompanies the effort to sustain the patent in suit when the same is attacked. (*Canda et al.* v. *Michigan Iron Co.*, 124 Fed. 486, 61 C. C. A. 194.) I can find nothing in the prior art which anticipated the patent in suit.

The appellee admits the sale of samples claimed to be the infringing product. An inspection of them satisfactorily demonstrates that there is a copying of the appellant's product. The evidence sufficiently shows that there is an infringement of this product.

I concur in the result in the majority opinion holding that the design patent is invalid. For the reasons above stated, I dissent from that part of the opinion holding Patent No. 1,344,570 invalid and think the judgment should be modified accordingly.

U. S. Circuit Court of Appeals—Fourth Circuit.

FREDERICK IRON & STEEL CO. ET AL. v. SANFORD RILEY STOKER CO.

Decided February 6, 1923.

[287 Fed. Rep. 495.]

1. PATENTS—INVENTOR MAY ADOPT SUGGESTIONS OF ANOTHER WITHOUT LOSING RIGHTS.

An inventor who is working to reduce his idea to practice may adopt the suggestions made by another without losing his right to a patent therefor, especially where the other took no steps to assert his ownership of the invention, and any rights he might have thereto had been lost by his inaction.

2. SAME—1,152,222, CLAIMS 3, 9, AND 10, FOR UNDERFEED STOKERS, HELD VALID AND INFRINGED.

The Riley patent, No. 1,152,222, claims 3, 9, and 10, for an improvement in the Taylor underfeed stokers, whereby a larger quantity of fuel could be fed and consumed without clogging the device or wasting the fuel, *Held* valid and infringed.

3. SAME—SOLUTION OF DIFFICULT PROBLEM BY USE OF OLD ELEMENTS ENTITLES CLAIM TO LIBERAL CONSTRUCTION.

Even though the elements in the invention were all old in the art, the selection and regrouping of those elements, whereby a difficult problem which others had failed to solve was finally solved successfully by the inventor by the exercise of considerable ingenuity, the claims are entitled to as liberal a construction as the prior state of the art and their restricted language will permit.

4. SAME—LIMITED CLAIMS COVER EQUIVALENTS COMMENSURATE WITH SCOPE OF INVENTION.

The fact that the claims in a patent are limited in scope does not deprive them of all the benefits of the doctrine of equivalency if those benefits are availed of in a manner commensurate with the scope of the invention and without doing violence to the language of the claims.

APPEAL from the District Court of the United States for the District of Maryland, at Baltimore; John C. Rose, judge.

Suit in equity by the Sanford Riley Stoker Company against Frederick Iron & Steel Company and another, for infringement of patent. Decree for plaintiff (274 Fed. 864), and defendants appeal. Affirmed.

Mr. Melville Church and *Mr. Edgar W. McCalister* (*Mr. John S. Green* on the brief) for the appellants.

Mr. Louis W. Southgate (*Mr. Charles T. Hawley* on the brief) for the appellee.

Before KNAPP, WOODS, and WADDILL, Circuit Judges.

KNAPP, *Cir. J.*:

The appellants were defendants in the court below, and they so will be designated in this opinion. The suit was brought for alleged infringement of two patents owned by the plaintiff company, namely, No. 1,152,222, issued August 31, 1915, and No. 1,090,651, issued March 17, 1914, both for improvements in underfeed stokers. The latter patent was withdrawn at the trial, and therefore has not been considered. The bill charges infringement of claims 3, 9, and 10 of Patent No. 1,152,222, herein referred to as the Riley patent, and they are the only claims in controversy. The trial court held these claims valid and infringed, and entered the usual decree for an injunction and accounting. (274 Fed. 864.) From this decree the defendants appeal.

The Riley patent, No. 1,152,222, contains a statement to the effect that it is founded on a stoking apparatus of the type shown and dscribed in the patent to Taylor, No. 792,862, and has for its object, among other things, the obtaining of a more complete combustion of the fuel used, and thus avoiding loss of fuel in the ash, which was found to be incidental to the operation of the Taylor stoker. Both the Taylor and Riley patents are fundamentally coking underfeed stokers, and the first of the kind that appears is shown in the patent to Jones, No. 470,052, which was followed by the Daley patent, No. 644,664.

In both the Jones and Daley stokers coal was introduced into a receptacle or retort, which had an open top, was closed at the sides and one end, and had the other end open to permit the entrance of coal. Into the lower part of the receptacle coal was forced through the open end by rams or pushers; the introduction of successive charges acting to force the fuel previously fed into the receptacle to the top of the latter. The upper portion of the body of coal as it emerged from the receptacle was ignited, and combustion of the fuel maintained and promoted, by forcing air under pressure across the fuel, through pipes in the Jones construction, arranged along the sides of the receptacle, and through tuyère blocks, similarly arranged, in the Daley construction. In both of these structures the effect of maintaining combustion on the top of the mass of confined coal, from which air of an amount to cause combustion was excluded, was wholly or partially to coke the coal in the retort below the air supply. Consequently volatile gases were liberated from the coal, and these in rising mingled with the air at the top of the retort and were burned. The smoke also passed upward through the burning fuel bed at the top of the retort and was to a great extent consumed. By this economical use of fuel, as compared with the old method of introducing fresh green coal upon the top of a burning bed, enormous saving was accomplished.

The practical defect in the Jones and Daley stokers was that an uninterrupted uniform burning of the fuel to maintain a constant heat could not be carried on, because at frequent intervals it was necessary to expose the fire bed to outside cold air during the removal of ashes. As fresh coal was fed into the lower part of the retort, the coal previously received was coked, forced upward, and burned. Consequently the ashes from the burning fuel at the top were spread out from the sides of the retort and received upon dead plates extending laterally from the sides of the retort, and when the quantity of ashes was such as to interfere with the operation of the furnace rakes introduced through apertures opening into the outer air were used for their removal.

The admission of air in this manner cooled the interior of the furnace and required a large consumption of fuel to bring the temperature back to the required point after each ash removal. Besides, the ash was necessarily raked by hand, and this involved exhausting and expensive labor. The area of the dead plates which could be raked was limited, and consequently the size of the furnace was much restricted, and because of the location of the dead plates, and the necessity for free access to them, it was impracticable to arrange the retorts in groups.

In the Taylor construction, retorts open at each end, and tuyère blocks arranged on both sides of the retorts for directing air under pressure, which is received from an air trunk, extending beneath and transversely of the retort to the fuel forced upward to the tops of the retorts by successive charges, and dump ash plates, arranged at the rear or discharge ends of the retorts and tuyère blocks, are employed. The advantageous and distinguishing feature of the Taylor device is that the retorts and tuyère blocks are inclined downward from their feed to their discharge ends, and that therefore the fuel is moved from the point of introduction, through the combustion zone and to the point of its discharge upon the dump plates, by the combined action of the pushers and gravity. Moreover, the tuyère blocks are of such form and arrangement in respect to the retorts that their upper faces form lateral extensions of the tops of the retorts. Consequently, as the coal is forced into the lower portions of the retorts, the burning coke at their tops flows out over and covers the tuyère blocks, resulting in the maintenance of a continuous fire bed extending over the retorts and tuyère blocks during the operation of the stoker. This construction permits of unlimited duplication of retorts and tuyère blocks, thus allowing the installation of a furnace of any desired size. The dump plates are inclosed by the walls of the furnace, and are operated from outside the latter, so that, of course, there is no cooling of the furnace incident to ash dumping.

The Taylor stoker was found to operate successfully under ordinary working conditions, but it developed in practice that when a substantial increase of boiler pressure was periodically necessary, and largely-increased quantities of coal were introduced to secure it, there was a failure to reach the desired end. The introduction of increased quantities of coal caused large amounts of uncoked coal and unconsumed coke to be moved to and deposited upon the dump plates, on which little burning took place, and where it rapidly accumulated and checked discharge from the retorts and tuyère blocks. The necessity for keeping the dump plates clear, by frequent dumping of the partly burned fuel, which was wasted, involved prohibitive expense, and the net result of the attempt to supply the fuel in quantities sufficient for the purpose mentioned was a failure to maintain the required heat and a great waste of fuel.

In 1908 several of the Taylor stokers were placed with the Electric Corporation, of Lowell, Mass., and were used in connection with its plant for generating electricity for lighting purposes, etc., where the requirement for increased power at certain times of the day was imperative. Failure of the stokers properly to function under excess load conditions naturally led to the serious consideration of means for curing their inherent defects.

Riley, who was employed by the then owners of the Taylor patent, had several conferences with representatives of the Electric Corporation, among them James H. Wood, who was the engineer in charge of the plant of the corporation, at which conferences the defects of the stoker were discussed. Numerous suggestions as to changes and additions were made, but, as the problem presented was difficult of solution, no remedy was quickly found. The requirements were many. A mere lengthening of the retorts and of the coacting elements would not avail, because in the end, under feed of large amounts of fuel, clogging would ensue. What was needed was some means whereby the partly-consumed fuel which was deposited upon the dump plates, when large quantities of fuel were introduced, would entirely be consumed, to aid in producing the additional heat and to avoid waste of fuel. For this purpose the dump plates had to be changed in form, so as to become in effect grates on which burning could take place, and air under pressure had to be supplied to promote combustion on them. Furthermore, the air had to be supplied to the grates in a manner to vary in quantity with that of the air which was supplied to the fuel at the tops of the retorts and on the tuyère blocks, in order that it might be efficient during the feeding of either small or large quantities of fuel to the retorts, and the grates had to be capable of being agitated to break up their load to permit the penetration of the air.

Riley had been trying since 1907 to devise means for overcoming the defects in the Taylor stoker above outlined, and at one of the conferences submitted a blue print illustrating a construction he had thought of for the purpose. At this conference it appears that Wood indicated on the blue print some ideas which he had of additions in the nature of improvements on the stoker. It may well be that the suggestions made by Wood were adopted by Riley and ultimately incorporated in the stoker additions described in the Riley patent. However this may be, Riley continued his efforts, and finally, in 1909, the addition which is the subject matter of his patent was made to the stokers in the Lowell plant.

This addition or improvement consists of a fuel support provided with an interior air chamber mounted adjacent to the discharge ends of the retorts in a manner to permit oscillation; the supporting surface being in the form of steps with air spaces between them communicating with the air chamber, a connection between the air trunk and the air chamber, and means for oscillating the support. After passing through the usual preliminary stages necessary to ascertain its best operation and manipulation under varying conditions, it gave eminently satisfactory results.

[1] It is contended by defendants that Wood, and not Riley, is the actual inventor of the improvement as set forth in claims 3, 9, and 10 of the Riley patent. The contention that Wood was the inventor may briefly be dismissed. At a conference when he and Riley were present he made suggestions and pencil indications of a proposed construction, though not identical with that finally produced by Riley. But there is nothing to show that Wood took any of the usual steps to assert his ownership of the invention; on the contrary, he contented himself with claims uttered at various times, generally, if not entirely, after the improvement was perfected and put into practical operation. Any rights he may possibly have had were annulled by his inaction long prior to the bringing of the suit on the Riley patent. To

this it may be added that, even if Riley made use of any of Wood's suggestions, it by no means precludes his right to a patent.

In reducing an idea of means to practice, an inventor has a right to avail himself of the constructive skill and ingenuity of others; and the suggestions which he may derive from them, and the improvements which he may adopt in consequence of these suggestions, belong to the embodiment of his invention and not to its essential character. Hence no notice is taken by the law either of the suggestions or their author. The Law of Patents for Useful Inventions, Robinson, sec. 393.

The authority given, among others, for this statement, is the ruling of Mr. Justice Clifford in the leading case of *Agawam Co.* v. *Jordan* (7 Wall. 583, 19 L. Ed. 177). The principle there laid down has, so far as we are aware, uniformly been adopted in subsequent decisions on the subject of suggestions to inventors.

[2] It seems to be established that the device produced by Riley met an urgent need, and that as a result of its adoption an extraordinarily large number of the Taylor type of stokers have gone into satisfactory and profitable use. These facts alone would not set the mark of patentability upon Riley's invention; they are influencing, but not conclusive.

[3] Claims 3, 9, and 10 of the patent, the infringement of which is specifically charged, are all limited in scope, and it is contended by defendants that, by reason of the prior art and by the conduct of the application in the Patent Office, they are necessarily more limited than the language employed in them would indicate. It is true that every element in each claim is found in the illustrations of the prior art; but it is equally true that all the elements are not found in any one of the patents or publications relied upon. The law is well settled that it is not permissible to take features separately from patents and publications illustrating the prior art, and, in the light of the disclosure of the Riley patent, so aggroup or combine them as to produce Riley's structure, and then set up this aggrouppment or combination as showing lack of patentability of the structure. Having clearly in mind the state of the art prior to Riley's invention, it is apparent that Riley did more than merely adopt what before was well known. While he made use of many old features, the exercise of considerable ingenuity was required to devise an organization which would meet the peculiar situation which he confronted. The fact that Riley and others gave long and serious thought to the subject before a satisfactory apparatus was designed, that no one else succeeded, and that he finally did, goes far to prove the correctness of this conclusion. This being so, the claims are entitled to as liberal a construction as the prior state of the art and their constricted breadth will permit.

In *Keystone Mfg. Co.* v. *Adams* (151 U. S. 139, 14 Sup. Ct. 295, 38 L. Ed. 103, 66 O. G. 654), the Court says:

But when, in a class of machines so widely used as those in question, it is made to appear that at last, after repeated and futile attempts, a machine has been contrived which accomplishes the result desired, and when the Patent Office has granted a patent to the successful inventor, the court should not be ready to adopt a narrow or astute construction, fatal to the grant.

The contention of defendants that the words "mechanism for operating the grate," in claim 3, and "means for giving a limited oscillative movement to said support," in claim 9, imply that such "mechanism" and "means" should be limited, and be effective only when construed to have read with and limiting them some words indicating that the operation is by and with the feeding ram, to cause the grate or support to feed the fuel, is not well founded. A reading of the specification of the patent shows that there is sufficiently clear disclosure of a construction to serve as a foundation for the claims as written. Two forms of oscillating means are described; one operated and timed by the movement of the feeding ram, and one operated by hand. The fact that two forms of oscillating means are described, one by hand, and one by a connection with the feed plunger, and then in the claims terms covering both are used, does not warrant a construction of the claims limiting them to either form alone.

The record contains nothing to indicate that ample feed of fuel was lacking in the Taylor stoker. What was wanted was a more complete burning of the fuel. Hence the primary reason for oscillating the adjunctive overfeed grate was to agitate the fuel to allow air to pass from the interior of the grate up through the fuel to promote combustion on it, and not to aid in feeding the fuel by a continued movement.

[4] Careful consideration has been given to the application on which the Riley patent was issued, having in view the contention that the words, "air ducts rising on a forward slant from said trunk and having air outlets at the rear," introduced by amendments into claims 9 and 10, and the words, "means for giving limited oscillative movement to said support," introduced by amendment into claim 9, so limit these claims as to preclude their being construed to cover defendants' stoker. Keeping in mind that the structure which forms the subject matter of these claims is designed to insure the completion of the burning of the fuel after passing from the retorts and tuyère blocks, it is immaterial whether the adjuncts of these parts are identical in defendants' stoker with what is shown and described in the patent, provided they are substantially equivalents in operation and have no effect on the condition of the fuel when it reaches the overfeed grate on which final burning is to take place. The claims are limited in scope, to be sure; but this does not deprive them of the benefits of the doctrine of equivalency, if those benefits are availed of in a manner commensurate with the scope of the invention and without doing violence to the language of the claims. In our view of the matter the retorts, tuyère blocks, and accessory parts of one structure must be deemed the substantial equivalents of those of the other. As the Supreme Court says in the *Paper Bag Case* (210 U. S. 405, 28 Sup. Ct. 748, 52 L. Ed. 1122, 136 O. G. 1297):

It is manifest, therefore, that it was not meant to decide that only pioneer patents are entitled to invoke the doctrine of equivalents, but that it was decided that the range of equivalents depends upon and varies with the degree of invention.

The claims 3 and 9 as they appear in the Riley patent fairly well cover the features of the stoker to which they are directed, and it is not necessary to import to them the language of any of the claims stricken from the application by amendments in order that they may cover defendants' stoker.

Claim 10 is a narrow one, which is directed particularly to the boxlike fuel supports in the form of steps, with air passages between the steps, and the brackets having conduits which communicate both with the air trunk and the interior of the fuel supports. The specific forms and arrangements of the parts as claimed are novel, so far as anything before us showing the prior state of the art is concerned, and the claim needs no forced construction to be held to cover the corresponding feature of the stoker produced by defendants.

Their stoker is made up of a number of retorts and tuyère boxes alternately arranged and inclined downwardly from front to rear, an air chamber extending below and transversely of the retorts and tuyère boxes, and inclined overfeed boxlike grates secured by brackets to the rear ends of the tuyère boxes, in positions to receive fuel from the retorts and tops of the tuyère boxes. The upper faces of the grates are stepped, and air openings are formed between the steps to allow air to pass upward from the interiors of the grates through the fuel on the grates. The brackets are hollow, and form conduits from the air chamber to the interiors of the grates. The grates are so disposed on the brackets as to allow them to oscillate. A shaft extends through the grates, and means for oscillating the grates through the shaft are provided. The substitution of the air chamber for the air trunk of the Riley patent, and various modifications in the forms of the parts used, and some minor additions, are to be noted, but in substance the structures are identical in purpose and operation.

In *Winans* v. *Denmead* (15 How. 330, at p. 343, 14 L. Ed. 717), the Supreme Court, in considering a patent having essentially narrow claims, says:

"Where form and substance are inseparable, it is enough to look at the form only. Where they are separable, where the whole substance of the invention may be copied in a different form, it is the duty of courts and juries to look through the form for the substance of the invention, for that which entitled the inventor to his patent, and which the patent was designed to secure. Where that is found, there is an infringement, and it is not a defense that it is embodied in a form not described and in terms claimed by the patentee.

This case is cited with approval, among others, in *Sewall* v. *Jones* (91 U. S. 171, 23 L. Ed. 275, 9 O. G. 47); *Eddy* v. *Dennis* (95 U. S. 560, 24 L. Ed. 363); and *Hoyt* v. *Horne* (145 U. S. 302, 12 Sup. Ct. 922, 36 L. Ed. 713, 59 O. G. 1764).

The stoker art is an old one, and many forms of overfeed grates are public property, which could have been used by defendants without infringing any existing patent. The fact that under these conditions they adopted a structure so very nearly resembling that of Riley is proof of the excellence of his improvement, and it also indicates the difficulty of devising means for reaching the desired end in any other way.

For these reasons we are of opinion that claims 3, 9, and 10 of the Riley patent are valid, and that, giving to their language its ordinary meaning, they are infringed by the defendants.

It follows that the decree appealed from should be affirmed.

U. S. Circuit Court of Appeals—Ninth Circuit.

KELLER ET AL. v. ADAMS-CAMPBELL CO., INC., ET AL.

Decided February 5, 1923; rehearing denied March 12, 1923.

[287 Fed. Rep. 838.]

1. PATENTS—TO BE "EQUIVALENTS" ONE DEVICE MUST PERFORM SAME FUNCTION AS THE OTHER IN SUBSTANTIALLY THE SAME WAY.

For one device to be the equivalent of another it must perform the same function in substantially the same way.

2. SAME—INTERVENING RIGHTS ENTITLED TO PROTECTION AGAINST REISSUE.

Defendant, who after originating a device and then learning of complainants' patent submitted his device to the attorneys who secured the patent, and on their assurance that it did not infringe placed it on the market, *Held* to have acquired intervening rights entitled to protection from a reissue of complainants' patent.

APPEAL from the District Court of the United States for the Southern Division of the Southern District of California; Oscar A. Trippet, judge.

Suit in equity by Clarence D. Keller and Arthur C. Lillie, doing business as the Hartford Windshield Company, against the Adams-Campbell Company, Inc., and others. Decree for defendants, and complainants appeal. Affirmed.

The following is the memorandum of the court below:

STATEMENT OF THE CASE.

This case involves an alleged infringement by the defendants of what is called in the proceedings a windshield wing, and especially, concerning said windshield wing, the bracket by which the glass of the wing is attached to the other apparatus of the wing of the windshield. This litigation turns largely and primarily upon the limitation in claim 1 of the original patent and the reissued patent which, as an element in the claim, reads as follows: "Brackets engaging said member at its upper and lower ends." That refers to the brackets of the wing of the windshield which hold the glass. The glass, according to this patent, is held by a bracket that runs along up and down the glass, and holds it at the top and the bottom. The defendants' device holds the glass by means of a clamp or fixture, which attaches to the face of the glass and does not extend to the ends of the glass.

The drawings and specifications in the original patent accurately describe the plaintiffs' invention, as exhibited to the court. The claims in the original patent particularly point out and distinctly claim, in so far as the disclosures appear in said patent, the part, improvement, or combination

which the patentee claims as his invention. It is manifest that the patentee was not guilty of inadvertence, accident, or mistake in making the claims in the original patent, in so far as the same are described in the drawings and specifications; that is to say, the drawings and specifications clearly describe this invention as exhibited to the court, and the claims read upon the description, and claim everything that is disclosed therein.

The defendants' bracket is an invention. It is a surprise to me that that which the defendants did could be done. The bracket will fit any glass. It is shorter, and does not obstruct the view. It is believed to be more artistic. The defendants' bracket is not an equivalent of the bracket in plaintiffs' original patent, because it does not perform the same functions in the same way, but it performs the function of holding in the glass in an entirely different way. Before the defendants did anything looking toward the manufacture of their device, they took the precaution, and incurred the expense, of consulting an attorney as to whether or not their device would be an infringement of the plaintiffs' patent. Criticism is indulged in by the plaintiffs as to this conduct of the defendants, claiming that the defendants deliberately did what they did do. I think that the defendants did the right thing. They should not have undertaken to manufacture this device, or incurred any expense concerning it, without first consulting an attorney. The defendants certainly sought the advice of an attorney who was capable of advising them on the subject. After having this advice, the defendants undertook the manufacture of their invention, and undertook it prior to the time of the plaintiffs' application for reissue of patent. They expended some money, and prepared to manufacture, and did manufacture, some of the devices as invented by the defendants. They did not expend a great deal of money. But I do not think that an estoppel or an intervening right can be measured by the amount of money expended in the manufacture, or in getting up the device, or in investigating their right to manufacture.

There is nothing disclosed in the patent, or in the original exhibit produced here, or in the drawings and specifications, indicating that the plaintiffs or patentee ever thought of the device as made by the defendants, and the defendants having made this device, and it having appeared in public prior to the application for reissue by the plaintiffs, it does not seem to me that the plaintiffs should be entitled to a reissue of patent covering something which somebody else has invented, and which it does not appear that they ever disclosed to the public prior to the invention of the defendants. Of course, this would not be an invention, if it had been disclosed to the public by the patentee prior to the invention of the defendants.

Without further discussion, I think the defendants occupy the position of one who has intervening rights, and under those circumstances I think the plaintiffs are not entitled to a reissue of the patent as against the defendants.

The bill will therefore be dismissed. The defendants will prepare a decree and follow rule 45 of this court.

Mr. Chas. E. Townsend and *Mr. James E. Kelby* (*Mr. Wm. A. Loftus* of counsel) for the appellants.

Mr. Frank L. A. Graham and *Mr. Ford W. Harris* for the appellees.

Before GILBERT, Ross, and HUNT, Circuit Judges.

Ross, *Cir. J.*:

The basis of this suit was a reissued patent of July 20, 1920, to the appellant Keller for claimed new and useful improvements in windshields for automobiles. The original patent to him was issued November 12, 1918, in which he stated:

> It is common practice to fit automobiles with a transversely extending transparent shield, which is secured within a suitable frame and mounted upon the dash of the vehicle body. Due to the narrow width of these shields, the wind draws in around the edges and creates considerable draft within the vehicle. It is the principal object of this invention to provide auxiliary transparent shield members, which may be secured in an adjustable manner at the opposite sides of the main windshield, and more thoroughly prevent the creation of a draft through the vehicle body.
>
> Another object of this invention is to provide a windshield of the above class which does not require the use of a large mounting frame and may thereby be held in position without obstructing the view.
>
> Another object of this invention is to provide a peculiar pivotal mounting for the shield, which will allow it to be universally moved throughout a horizontal plane and in relation to the edge of the main shield.
>
> Another object of this invention is to provide simple operating means for instantly locking the pivotal mounting in any desired position.
>
> It is a further object of this invention to provide a windshield which will be neat in its design, simple in its construction, and will act to enhance the appearance of the vehicle upon which it is mounted, rather than to depreciate it.

Accompanying the foregoing with illustrative drawings and their explanations, the patentee made the following three claims:

> 1. In an auxiliary windshield, the combination, with a vertical supporting post, of a transparent shield member, brackets engaging said member at its upper and lower ends, means whereby said brackets may swing horizontally to adjust the shield, a secondary hinge adapted to act in combination with said first-named hinge to allow the shield to have universal horizontal movement in relation to the supporting post, and means whereby the two joints of the shield may be simultaneously locked.
>
> 2. In an auxiliary windshield, the combination, with a vertical supporting post, of a transparent shield member, brackets engaging said member at its upper and lower ends, means whereby said brackets may swing horizontally to adjust the shield, a secondary hinge adapted to act in combination with said first-named hinge, to allow the shield to have universal horizontal movement in relation to the supporting post, means whereby the two joints of the shield may be simultaneously locked, and means for detachably securing the shield upon said post.
>
> 3. In an auxiliary windshield, a rectangular windshield glass, upper and lower supporting brackets having channels in which the glass is mounted, and having aligned bearings at one side of the glass, a spacing sleeve having its ends rotatably mounted in the bearings, a shaft extending through the bearings and through the sleeve, a lock nut upon the shaft for tightening the bearings upon the sleeve, a knuckle joint bracket having two parallel bearings, said sleeve being mounted in one bearing, there being a horizontal bore through the bracket and connecting the bearings, and there being a passage through the sleeve in line with the bore, and there being a tapered face upon the shaft in line with the bore, a lock nut mounted in the bore and having a tapered end engaging said tapered face, mounting bracket having ears between which the other sleeve bearing is mounted, and a hinge pin inserted through the ears and bearing and having a recess to receive the other end of the lockbolt, said mounting bracket being adapted for engagement with the side post of a windshield, so that by loosening the lock nut upon the shaft the parts may be loosened to move the windshield to a desired position, and then by tightening the lock nut the parts may be held rigid with the main windshield.

In the reissued patent of July 20, 1920, the first three claims are identical with the three claims of the original patent, besides which there are 20 other claims.

[1] That there is nothing of a pioneer nature in Keller's device is abundantly shown by the numerous exhibits appearing in the record of windshields and deflectors, of one kind and another, attached to automobiles long before Keller entered the field. Both his drawings and specifications show that his shield is attached to the machine by brackets that run up and down the glass, holding it at the top and bottom, whereas the appellee's device holds the glass by means of a fixture attached to the face of the glass and which does not extend to either of its ends. That for one device to be the equivalent of another it is essential that the former must perform the same function of the latter in substantially the same way is thorough settled law. (*Machine Co.* v. *Murphy*, 97 U. S. 120, 125; 23 L. Ed. 935; 13 O. G. 366; *Werner* v. *King*, 96 U. S. 218, 230; 24 L. Ed. 613; 13 O. G. 176; *Simplex Window Co.* v. *Hauser Reversible Window Co.*, 248 Fed. 919, 926; 161 C. C. A. 37; *Dey Time Register Co.* v. *Syracuse Time Recorder Co.*, C. C., 152 Fed. 440, 451; Walker on Patents, sec. 348; Curtis, Patents, 4th Ed., sec. 310.)

[2] The evidence shows that, prior to any knowledge on their part of the Keller patent, the appellees had been working on their device, and had made and sold a few of them, but subsequently learned of and became familiar with the original Keller patent, and before proceeding with the manufacture and sale of their own device, and prior to the making of the application for the reissued Keller patent, they applied to the attorneys who procured the original Keller patent for information as to whether their device was an infringement upon that of Keller, saying that they did not wish to infringe, and, being told that it would not be an infringement, they proceeded with the manufacture and sale of their own on a substantial basis. We therefore think it clear that the appellees had and have such intervening rights as were properly protected by the court below. (See *Coon* v. *Wilson*, 113 U. S. 268; 5 Sup. Ct. 537; 28 L. Ed. 963; 30 O. G. 889; *Topliff* v. *Topliff*, 145 U. S. 156; 12 Sup. Ct. 825; 36 L. Ed. 658; 59 O. G. 1257; *Dunham* v. *Dennison*, 154 U. S. 103, 111; 14 Sup. Ct. 986; 38 L. Ed. 924; 67 O. G. 1571; *Auto-Piano Co.* v. *American Player Action Co.*, 222 Fed. 276, 138 C. C. A. 38; 217 O. G. 1055.)

The decree of the court below is affirmed.

U. S. Circuit Court of Appeals—Second Circuit.

A. B. DICK CO. *v.* BARNETT.

Decided March 5, 1923.

[288 Fed. Rep. 799.]

1. PATENTS—CLARITY OF DESCRIPTION A QUESTION OF FACT.
   Clarity of description in a patent claim is a question of fact, depending on the surrounding circumstances as adduced in evidence, and the jury is at liberty to apply its own view and use its own common sense, and the court on the equity side has the same liberty.
2. SAME—MATTERS CONSIDERED IN JUDGING SUFFICIENCY OF PATENT DISCLOSURE.
   In judging the sufficiency of a patent disclosure it is necessary to consider, not only the art to which the invention may be assigned, but its relation to other and especially older arts and the nature of the alleged new thought, and it is on the difficulty, obscurity, or even novelty of the art concerned that depends the kind and degree of skill or knowledge which must be possessed by those who assume to apply it.
3. SAME—HOW ATTRIBUTES OF ART ARE ASCERTAINED.
   In judging the sufficiency of a patent disclosure the attributes of the art must be established from the evidence in a particular case plus matters of common knowledge concerning which the court may take judicial notice.
4. SAME—DISCLOSURE NOT CONDEMNED BECAUSE SKILLED MAN CAN NOT APPLY IT.
   It is by no means enough to condemn a patent disclosure that even a skilled man might find it necessary to make several tests or trials before arriving at success.
5. SAME—1,101,268, FOR STENCIL PAPER, HELD VALID AND INFRINGED.
   Fuller patent, No. 1,101,268, claims 1, 2, 6–16, 20, 23–27, for a stencil paper known as "Dermatype," *Held* valid and infringed.

APPEAL from the District Court of the United States for the Southern District of New York.

Suit by the A. B. Dick Company against Louis A. Barnett. Decree for plaintiff, and defendant appeals. Affirmed.

See, also, 287 Fed. 573.

STATEMENT OF THE CASE.

Suit on Fuller patent, 1,101,268, claims 1, 2, 6–16, 20, 23–27. This patent was before us in *Dick Co.* v. *Underwood Co.* (252 Fed. 990; 164 C. C. A. 663), affirming without opinion the decision of Hazel, J., in 246 Fed. 309. The present suit on the same patent, but against another alleged infringer, was refused preliminary injunction by us in 277 Fed. 423.

The court below held that Hesco stencil paper, sold by defendant, infringed the Fuller patent, under the alleged protection of which plaintiff has for some years sold the paper known as Dermatype. From decree accordingly defendant appealed, insisting upon (*a*) noninfringement, and (*b*) Invalidity of patent for lack of terms of specification sufficiently "full, clear, concise and exact, * * * to enable any person skilled in the art * * * to make * * * and use the same." (R. S. sec. 4888; Comp. St. sec. 9432.)

Mr. E. Clarkson Seward for the appellant.

Mr. J. Edgar Bull and *Mr. Samuel Owen Edmonds* for the appellee.

Before ROGERS, HOUGH, and MANTON, Circuit Judges.

HOUGH, *Cir. J.* (after stating the facts as above):

It is not necessary to quote the claims in suit; the substance of the matter is the second claim, which is set forth at length in 246 Fed. at page 311. The essential characteristics of the product which is the subject of patent are found in a sheet of fibrous material which shall be (1) dry, but hygroscopic; and (2) impregnated with a coagulated colloidal substance and a tempering agent.

The history of this not unimportant art, the position of the patented product therein, and the means by which the product is reached are matters sufficiently set forth in the opinion of Hazel, J., above referred to, from which this record does not induce us to depart in any particular. The statement just made dispenses with much discussion, and we shall note only heads of the argument now made.

1. We decline further to consider the patent or patents of Zuccato. The only new matter suggested is that when that patentee speaks of alum he must be taken to have meant ammonia alum,

that being the ordinary drug of that name found in Great Britain, and that kind of alum is "the strongest in its coagulatory effect upon gelatin." This may be true—it may be assumed as true; but it still remains also true that Zuccato, though he hardened the sheet, failed to "permanentize the coating or tan it," as in Fuller's patent. (246 Fed. at p. 312.) It may also be assumed to be true, without changing the result, that in the light of several years of success by plaintiff a man acquainted with modern methods may use Zuccato's disclosure as a starting point and make a better stencil sheet than Zuccato ever did. But it is not the stencil sheet of the patent, as is abundantly shown in the opinion already referred to.

2. The main attack now made upon the patent is under an issue presented by the pleadings in the Underwood case, but not much insisted on, if at all, in that litigation, viz, that its disclosure is not sufficient under the well-known language of Revised Statutes, section 4888.

The lack of fullness, clarity, and exactitude in the disclosure is sought to be demonstrated by defendant by the production of a number of witnesses, who declare themselves quite able to make good stencil paper, but unable to produce, by following the instructions of the specification, either the plaintiff's commercial product, the defendant's infringing article, or, indeed, anything else worth having. The inference from this is that, since the witnesses were men "skilled in the art" and said they could not "do the trick," nobody could, and therefore the patent is bad. Abstractly put, and put as a "question of law," it is urged that the patent must be bad if the disclosure does not instruct men of very ordinary capacity, or at most workmen of a journeyman's skill, how to embody the concept of the patent.

[1] It may be noted that the point can not be advanced as one of law. Whether the description of a device is clear enough to enable a person of ordinary skill to construct or make it is a question for the jury, if the action be at law. (*Hogg* v. *Emerson*, 11 How. 587; 13 L. Ed. 824.) This means that clarity of description is a question of fact, and the solution of a fact inquiry always depends upon the surrounding circumstances as adduced in evidence. The jury is at liberty to apply its own view and use its own common sense about the matter, and has often been so instructed. The court on the equity side has the same liberty; it is always a mistake to treat as rules of law the preferred mental processes of some trier of the facts.

Therefore all the remarks of chancellors as to the meaning of the phrase "man skilled in the art" are illustrations and incidents, not precedents. They frequently illustrate the personality of their utterer rather more than anything else. We are of opinion that it is advisable to remember first how very easy it is not to do a thing, and how small is the step from not wanting to do a thing to declaring that it cannot be done. This has been dwelt on innumerable times, but never more concisely than by Coxe, J., in *Rymear* v. *Evans* (C. C., 83 Fed. 696).

[2] We further think that, in judging the sufficiency of a patent disclosure, it is necessary to consider, not only the art to which the invention may be assigned, but its relation to other and especially older arts, and the nature of the alleged new thought. It is upon the difficulty, obscurity, or even novelty of the art concerned that depends the kind and degree of skill or knowledge which must be possessed by those who assume to apply it.

[3] And all these attributes of the art must be ascertained from the evidence in a particular case, plus matters of common knowledge concerning which the court may take judicial notice. There could not be a better example of how thoroughly the question of sufficient disclosure depends upon the state of the art and the kind of art than the case from this court so strongly relied upon by appellant; i. e., *Matheson* v. *Campbell* (78 Fed. 910; 24 C. C. A. 384; 79 O. G. 686).

Judges, as triers of the facts, have said that a disclosure, to be good, must be clear to a manufacturer, or a workman, or a mechanic, or even a journeyman (*Leonard* v. *Maxwell*, 252 Fed. 584; 164 C. C. A. 500; 257 O. G. 817); but the word used is quite meaningless unless the nature of the patent and the art involved be carefully investigated, when it will be found, e. g., that the journeyman of the Maxwell case was a person whose accomplishments would be much admired by most men.

[4] It is not possible to formulate a rule in this matter, though it may be safely said that it is by no means enough to condemn a patent disclosure that even a skilled man might find it necessary to make several tests or trials of before arriving at success. (*Malignani* v. *Jasper, Etc., Co.*, C. C., 180 Fed. 442.) The nearest approach to a rule is the summary declaration so characteristic of the rude sense of Jessel, M. R., that—

> the specification of a patent is not addressed to people who are ignorant about the subject-matter. It is addressed to people who know something about it. (*Plimpton* v. *Malcolm*, 3 Ch. Div. 531.)

But how much said people must know about it is a matter of degree, and always relative.

Applying these facts (not rules) to the matter in hand, we are satisfied that there was not the least difficulty on the part of one with an elementary knowledge of chemistry and a fair practical workman, in making Fuller's stencil sheet after reading Fuller's patent. It is not to the point that such a sheet is not as good—i. e., clear and long lived—as is plaintiff's commercial product Dermatype. The question is not whether a defendant in a suit of this kind is copying the plaintiff's commercial product, but whether he is appropriating the perhaps inferior means of plaintiff's patent.

[5] 3. We may summarily state why we consider defendant's product an infringement. As above shown by reference to the Underwood case, Fuller's stencil sheet is something which is as to its coating "permanentized" or tanned. We may add that it is chromatized. The relation between tanning and chromatization is interestingly shown in *Tannage Co.* v. *Zahn* (C. C., 66 Fed. 986; 71 O. G. 1161; reversed 70 Fed. 1003; 17 C. C. A. 552; 74 O. G. 143). (The case is also one of the best illustrations of sufficiency of disclosure and how to measure it.)

The article sold by defendant is a partially chromatized, tanned, or permanentized sheet. It will do what plaintiff's sheet does and do it for the same reason; it may do it as well, but in all probability for a shorter time, and only under more favorable conditions as to heat or moisture. All of which, however, does not prevent its being an infringement under familiar doctrine.

Decree affirmed, with costs.

U. S. Circuit Court of Appeals—Sixth Circuit.

CONTINENTAL FIBRE CO. *v.* FORMICA INSULATION CO.

Decided March 6, 1923.

[287 Fed. Rep. 455.]

1. PATENTS—WRIGHT PATENT, 1,303,753, HELD INVALID. The Wright patent, No. 1,303,753, for a composite board, mainly useful for insulation in electric installations of high voltage, *Held* invalid.

2. SAME—SKILLFULNESS AND SUPERIORITY DO NOT CONSTITUTE PATENTABLE INVENTION. Neither skillful selection of material, nor thoroughness of workmanship, nor superiority of product constitutes in itself and without change of method or novelty of use patentable invention.

APPEAL from the District Court of the United States for the Western Division of the Southern District of Ohio; John W. Peck, judge.

Infringement suit by the Continental Fibre Company against the Formica Insulation Company. Decree for defendant, and plaintiff appeals. Patent held invalid, and bill dismissed.

Mr. John C. Kerr and *Mr. Alfred M. Allen* (*Mr. Vernon E. Hodges, Mr. Alfred M. Allen*, and *Mr. John C. Kerr* on the brief) for the appellant.

Mr. J. Edgar Bull and *Mr. John H. Lee* (*Messrs. Dyrenforth, Lee, Chritton & Wiles, Messrs. Wood & Wood, Mr. John H. Lee*, and *Mr. J. Edgar Bull* on the brief) for the appellee.

Before KNAPPEN, DENISON, and DONAHUE, Circuit Judges.

PER CURIAM:

Infringement suit upon the Wright patent, No. 1,303,753, dated May 13, 1919, for a composite board, mainly useful for insulation in electric installations of high voltage. The district court held the patent invalid. The nature of the patent and the character of the questions involved satisfactorily appear from Judge Peck's opinion, which we append hereto (substituting claim 2 for claim 1).

[1] The issue is sharply presented by the action of the Patent Office, in which the Examiner held that Wright had made an improvement over the bakelite patent only in degree, while the Board of Examiners in Chief thought he had produced a new product. We are not able to think that the difference between a surface permeation and saturation and a saturation which goes to the center of the sheet is in itself anything more than a difference in degree, depending upon the existing physical conditions, and the advantage of getting as much saturation as possible we think must have been obvious to every one. It may be conceded that Wright attained a degree of saturation, and thereby obtained in the final product a degree of homogeneity never before attained, thus making the product more useful than anything earlier; but if, in so doing, he employed anything more than the natural efforts of a skilled workman (and in this art the extraordinary knowledge and skill of one short period was the commonplace of the next), it consisted in finding a peculiar material unusually capable of complete saturation by this liquid, and appellant's brief indicates a chief reliance upon this theory of real inventive merit; but the specification leaves us uninformed as to what such material is or how to find it.

Patentability, therefore, can not rest upon any presumption that the material constitutes the discovery. We may even tentatively assume that the laminations of the original pile of sheets will not appreciably carry over into the finished product; but this assumption does not escape the inference that the result comes from soaking longer and pressing harder than before, unless it comes from things undisclosed.

We do not overlook the teaching of cases like the *Minerals Separation Case* (242 U. S. 261, 37 Sup. Ct. 82, 61 L. Ed. 286, 234 O. G. 1311), that patentability may lie in a change in the degree of one element in a composition; but in that case change made success out of failure and founded a new art. Here the old laminated board was a great commercial success; the new tended to supplant it, or go beyond it, only for special uses, as any improvement does.

Save as indicated by what we have said, and as to possibly excessive (but not vital) analogy found in two or three of the older patents cited, we approve and adopt Judge Peck's opinion and affirm the decree.

The opinion of the district court is as follows:

Action for injunction against infringement of the patent to Wright, No. 1,303,753, May 13, 1919, and an accounting. The answer denies validity and infringement of the patent.

The patent in suit lies in the art of making composite material by laminations of paper, cloth, or other like material, and a binder composed of a phenolic condensation product such as bakelite. It is now in common use for many purposes, and extensively employed for insulating. The [second] claim describes the asserted invention as follows:

> [2. A composite product composed of laminations of paper or the like, each lamination being saturated throughout with approximate uniformity, with a phenolic condensation product, and the whole being subjected to sufficient pressure and heat to form an approximately homogeneous product.]

That the defendant is producing a material which responds to the elements of this claim there

is no doubt. The question, therefore, is upon the validity of the patent, more specifically whether it embodies novelty and patentable invention. It is not disputed that all the elements of this composite, except approximate uniformity of saturation of the fiber and approximate homogeneity, were old in combination. It only remains, therefore, to be inquired whether the prior art also discloses those two features so clearly as to require denial of validity to the patent. The presumption is in its favor, and the burden is on the defendant.

It can not be successfully controverted that the idea of saturating as distinguished from the mere coating of fibrous material, in the building up of such laminated products, was an old one. Dixon, 1901, constructed a conduit pipe for electrical wires of laminations of paper "saturated and permeated" with asphaltum. Baekeland in 1909 described the manufacture of packing material by the "impregnation" of fibrous sheets with a phenolic condensation product, and in 1910 set forth a similar process in his patent for a machine element, such as a gear. His composite cardboard patent of 1910 will be considered later. In 1913, Conrad, in his composite gear patent, stated the effect of the heating and pressing together of sheets coated with bakelite to be "to further impregnate" them, and almost identical language is used in the same connection in O'Connor's patent for composite cardboard applied for in 1913. Barker's British patent of 1896, for a wood substitute, specifies the use of a fibrous material, such as cotton flannel, "thoroughly impregnated" with resin or gum, so as to produce a "rigid, inflexible, grainless, and waterproof material," by passing it through a vat of the gum, allowing it to partially dry, and then putting it under heated pressure rolls. A process which resulted in impregnation was in use by both parties before the application for the patent in suit. Thus a review of the prior art leaves no doubt that the practice of saturation was old—as old, perhaps, as the art itself. Indeed, it would be difficult to coat and compress permeable sheets of paper or cloth without a considerable degree of saturation. The fact that saturation or impregnation is called for in many of the prior art patents demonstrates that its desirability was recognized.

Turning, then, to the other feature of this product for which novelty is claimed—that is to say, "approximate homogeneity"—it is first necessary to define what is meant by the phrase. It can not mean that the product is of the same identical material throughout, as it continues to be laminated; the fiber remains fiber, the bakelite remains bakelite, after the structure is complete. Indeed, the claim calls for a laminated product, which is in itself contradictory of the idea of homogeneity, if the latter be taken to indicate an absolute sameness of material throughout. It must, therefore, be taken to mean a "uniformity of structure." Webster.

Going once more to the prior art, we find that Haefely, in 1904, made laminated insulating tubes in which the application of heat and pressure served—

> to melt the binding varnish and compress the layers of paper and varnish into such intimate contact as to produce a tube of great compactness, as well as of uniform dimensions.

It will be remembered that Barker's British patent, above referred to, describes the product as "grainless." Courtenay's hard fiber patent of 1889 characterizes his manufacture as a hard, dense substance. The Westinghouse booklet on Micarta Plate and Tubing Products, of January 1, 1913, represents that product (which was composed of laminations of paper and bakelite) to be "homogeneous" and "readily sawed, milled, tapped, threaded, etc." It is therefore quite obvious that a compact, dense, or grainless material of uniform structure was not novel on February 26, 1916, when Wright filed the application for the patent upon which the plaintiff relies. The several various elements of the composite were therefore old. Are they to be found in a prior combination? In other words, was the product itself in the prior art?

In 1910, Leo H. Baekeland, inventor of bakelite and many of its uses, filed his application for the patent for composite cardboard issued to him March 5, 1912. He describes a process of applying a phenolic condensation product to one or both sides of sheets of the ordinary grades of paper. The desired number of sheets being assembled, the composite is compacted by pressure. Heat is applied—

> in order to effect the transformation of the condensation product into an insoluble, infusible body.

The same process, in practically identical language, is described by Wright (p. 1, lines 60 to 100, and line 104 et seq.). While Baekeland did not, in his composite cardboard patent, lay stress upon impregnation, or approximate homogeneity of product, the evidence is clear, and there is no doubt but that such impregnation and approximate uniformity of structure would result from the following out of his process, provided a sufficiently permeable material and enough bakelite in a sufficiently liquid form were used. Permeable materials were at hand; paper, muslin, and duck were then, and are now, used in this connection.

While there is evidence tending to show that Wright found a paper more permeable and better adapted than any that was at hand at the time of Baekeland's application, there is no evidence to show any improvement in the quality of muslin or duck which could be, and was, used instead of paper; nor does the evidence indicate any alteration in the quality of phenolic condensation product as far as its ability to permeate and saturate is concerned. No change of formula appears concerning the quantity of that product used. It is in evidence that the Westinghouse Company's efforts in 1910, 1911, and 1912 were to put in all that could be got in and all that the paper would carry, but that the resin itself has been improved in recent years, resulting in a better product. Therefore any one skillful in the art, following the teachings of Baekeland's composite cardboard patent, using a well-known permeable material, such as muslin or duck, and bakelite, or the like, as now made, in the form and proportions then common, would thoroughly saturate laminations of fibrous material and would produce a composite substance having substantial homogeneity.

It is said the former products would split along the line of the laminations, and such splitting is regarded by plaintiff's expert as proof of nonhomogeneity. The present product of both parties is so strong across the grain as not to be capable of being split. Wright did not specifically mention or claim this property for his product. Whether it comes within the fair definition of the term "homogeneity" is doubtful, to say the least. Century Dictionary. Wood, slate, and bituminous coal might fairly be called homogeneous, yet they may be split. But, assuming that incapability of being split is a property sufficiently described as "homogeneous," nevertheless it is found that such quality is the result of excellence of manufacture from materials and by methods then well known rather than an original conception or discovery of inventive character. Furthermore, the quality of toughness across the grain appears to have been, to a large extent, a matter of degree. It would seem that to deny the right to the quality in question to a composite cardboard produced under the Baekeland patent of the prior art would be simply to limit the excellence with which that product could be made by the process therein plainly described.

In testifying concerning the process by which his product is manufactured, the inventor, Wright, did not disclose any substantial variation from former practice, except the use of an especially made paper consisting of about two-thirds cotton and one-third wood fiber, the use of improved machinery for dipping the paper, in which the rolls revolve faster than the material is carried, so rubbing the bakelite into the fiber, and the allowing of a longer drying period for the sheets after saturation and before compression. But the patentee did not limit himself to the use of paper; the specifications being broad enough to cover also cloth, as muslin or duck, of which special preparation is unnecessary. Furthermore, it does not appear from the evidence that the prepared paper used by the plaintiff is the only one available for the purpose, but merely that the use of it, in the patentee's judgment, results in a better product. The defendant uses a pure cotton fiber paper, which is old. As to process, the defendant pursues the same method of dipping and pressing as it did in the year 1914, long before Wright's application, and yet obtains thereby the product which is relied upon by plaintiff as proof of infringement. Therefore plaintiff cannot predicate the patentability of its product upon the particular material or process used in its manufacture.

[2] All in all, it would seem that the patentee's advance over the prior art lies merely in a skillful selection of materials and in thoroughness of workmanship. The phrases, "every fiber waterproofed," "saturated throughout with approximate uniformity," an "approximately homogeneous product," indicate nothing more than doing thoroughly and well that which is disclosed by the prior art, particularly the Baekeland composite cardboard patent. The product—and it is borne in mind that this is a product or manufacture patent—is not distinguishable from that previously made except by its excellence. Neither skillful selection of material, nor thoroughness of workmanship, nor superiority of product constitutes, in itself, and without change of method or novelty of use, patentable invention. (*Hotchkiss* v. *Greenwood*, 11 How. 248, 265, 13 L. Ed. 683; *Hicks* v. *Kelsey*, 18 Wall. 670, 21 L. Ed. 852; *Burt* v. *Evory*, 133 U. S. 349, 10 Sup. Ct. 394, 33 L. Ed. 647, 50 O. G., 1294; *Capital Sheet Metal Co.* v. *Kinnear & Gager Co.*, 87 Fed. 333, 31 C. C. A. 3; *Florsheim* v. *Schilling*, 137 U. S. 64, 11 Sup. Ct. 20, 34 L. Ed. 574, 53 O. G. 1737; *Westinghouse Electric Co.* v. *Formica Insulation Co.*, C. C. A., 272 Fed. 667.)

It is therefore concluded that the patent in question is invalid, and that the bill must be dismissed.

U. S. Circuit Court of Appeals—Fifth Circuit.

R. L. BENNETT & SONS v. FARMERS' SEED & GIN CO.

Decided March 27, 1923.

[288 Fed. Rep. 365.]

1. TRADE-MARKS AND TRADE NAMES AND UNFAIR COMPETITION—GENERIC OR DESCRIPTIVE NAMES NOT ENTITLED TO PROTECTION.

   A generic name or names descriptive of an article of trade, of its qualities, ingredients, or characteristics, cannot be employed as a trade-mark and the exclusive use of it be entitled to protection.

2. SAME—MISREPRESENTATION AS TO PRODUCTION OF NEW VARIETY OF COTTON WARRANTS DENIAL OF PROTECTION TO ALLEGED TRADE MARK.

   Where plaintiffs claimed protection for the words "Bennett's," and "Bennett's New Cotton," and "Bennett's Cotton Seed," claiming to have propagated a new variety of cotton, they cannot, in infringement proceedings, claim that the commodity is really not a new variety, to avoid the rule that a generic name cannot be employed as a trade-mark, since their misrepresentation as to the production of a new variety would justify the court in denying them relief for that reason.

3. SAME—PLAINTIFFS ESTOPPED BY ACQUIESCENCE FROM CLAIMING EXCLUSIVE RIGHT TO TRADE NAME.

   Trade-marks may be lost by acquiescence in their use by others, and where plaintiffs sold cottonseed of considerable value and accepted payment therefor with full knowledge and acquiescence that the seed would be used by the buyer in the cotton-seed business, and the cotton grown therefrom and the cottonseed thereby produced would be advertised and sold as "Bennett's New Cotton," and the plaintiff assisted in the preparation of defendant's advertising matter and advised as to new methods of ginning, plaintiffs were estopped from contending that the name "Bennett's New Cotton" was an exclusive trade-mark which defendants were not permitted to use.

APPEAL from the District Court of the United States for the Eastern District of Texas; W. Lee Estes, judge.

Bill in equity by R. L. Bennett & Sons against the Farmers' Seed & Gin Company, to restrain infringement of trade-mark. Decree for defendant, and plaintiffs appeal. Affirmed.

Mr. John M. Spellman (*Messrs. King, Mahaffey & Wheeler* on the brief) for the appellants.

Mr. Raymond H. Saal, Mr. W. F. Moore, and *Mr. Emile Godchaux* (*Messrs. Moore & Hardison* and *Messrs. Milling, Godchaux, Saal & Milling* on the brief) for the appellee.

Before WALKER, BRYAN, and KING, Circuit Judges.

BRYAN, *Cir. J.*:

The appellants allege in their bill of complaint that they have the exclusive right to use the words "Bennett's," "Bennett's New Cotton," and "Bennett's Cotton Seed," to designate the origin of cottonseed grown or produced by them for sale to the public; that the word "Bennett's" was established as their trade-mark and thereafter registered as such under the act of Congress of February 20, 1905 (33 Stat. 724, as amended, Comp. St. secs. 9485–9516); and that the appellee is infringing such trade-mark and the rights of appellants under it by advertising and selling cottonseed under the name "the Bennett New Cotton." The bill prayed for a preliminary as well as a permanent injunction.

The appellee filed its answer, in which it admitted the use of the word "Bennett" in connection with the sale by it of cottonseed, but defended its action in so doing by averring that that word was indicative of a variety of cotton, and also that its use by the appellee had been acquiesced in by the appellants. The district court, after considering affidavits, exhibits, and interrogatories, and hearing testimony of the parties at interest, entered an order refusing an application for preliminary injunction. From that order this appeal is taken, under section 129 of the Judicial Code (Comp. St. sec. 1121.)

In 1908 the appellants began to breed and purify cottonseed, and since 1913 or 1914 have been advertising such seed as "Bennett's Cotton Seed," and the cotton produced therefrom as "Bennett's New Cotton." In a circular distributed by them, under the caption "Why Called New Cotton," it is stated:

> In the first place, the cotton did not exist before I [Bennett] started it,

and, after the method of cotton breeding is explained:

> This is cotton breeding and it has made Bennett's New Cotton the only cotton that has every quality all growers and most spinners want.

In 1918, and perhaps earlier, the appellants sent samples of the cotton grown by them to the Texas agricultural experiment station, where, in 1919 and 1920, it was listed as "Bennett" under the heading "Variety name," along with "Lone Star" and other varieties of cotton. There is sufficient evidence to warrant the conclusion that "Bennett" became well known as a variety of cotton. In the early spring of 1921 the appellee made known to the appellants that it was its purpose to engage in the cottonseed business, and purchased from them several thousand bushels and paid therefor the sum of $9,000.

The appellants edited and suggested changes in appellee's literature, furnished cuts, and assisted in the preparation of its advertising matter, in which it was stated in conspicuous type that the appellee would grow and sell the "Bennett New Cotton," and delivered to the appellee for its use their form of contract with growers of cotton, which also described the cotton and cottonseed in similar manner. They also made recommendations as to how the cotton should be ginned and machinery therefor arranged, so as to protect the cottonseed and maintain its purity, which at much expense were adopted in part by the appellee. At a later period in 1921 the appellants notified the appellee that they objected to the use of their name in connection with cotton or cottonseed produced or sold by it. Thereafter, in September, 1921, the appellants registered their trade-mark.

[1] We are of opinion that the district judge correctly refused the preliminary injunction. In the leading case upon this subject of *Canal Co. v. Clark* (13 Wall. 311; 20 L. Ed. 581) it is said:

> The office of a trade-mark is to point out distinctively the origin, or ownership of the article to which it is affixed; or, in other words, to give notice who was the producer. * * * No one can claim protection for the exclusive use of a trade-mark or trade-name which would practically give him a monopoly in the sale of any goods other than those produced or made by himself. If he could, the public would be injured rather than protected, for competition would be destroyed. Nor can a generic name, or a name descriptive of an article of trade, of its qualities, ingredients, or characteristics, be employed as a trade-mark and the exclusive use of it be entitled to legal protection.

(See, also, *Lawrence Mfg. Co. v. Tenn. Mfg. Co.*, 138 U. S. 537; 11 Sup. Ct. 396; 34 L. Ed. 997; 55 O. G. 1528.)

[2] It is now contended that there is no such variety of cotton as "Bennetts"; that appellants really propagate and sell cottonseed of the "Lone Star" variety, and that therefore the case does not fall within the rule, announced in *Canal Co. v. Clark*, supra, that a generic name cannot be employed as a trade-mark. The contention cannot meet with much favor in a court of equity. There was evidence sufficient to justify the court below in reaching the conclusion that the appellants represented to the public that they had propagated a new variety of cotton. If they have done that, they are not entitled to restrain the appellee from selling cottonseed of that variety. On the other hand, if they have not, they have misrepresented the fact, and the court was justified in denying them relief for that reason.

[3] We are of the opinion, also, that the appellants are estopped to deny to the appellee the right to sell cottonseed upon the representation that it was grown from the "Bennett New Cotton." Trade-mark rights may be lost by acquiescence. (*Hanover Milling Co. v. Metcalf*, 240 U. S. 403, 419; 36 Sup. Ct. 357; 60 L. Ed. 713; 224 O. G. 1407.) It is undisputed that the appellants sold and accepted payment for seed of considerable value with full knowledge and acquiescence that they would and should be used exactly as they have been, and assisted in the preparation of the advertising matter of which they now complain. Of course, no additional rights to the trade-mark were acquired by registration under the act of Congress.

It would require more than the showing made upon the application for preliminary injunction to entitle the appellants to the relief sought by them.

The decree of the district court is affirmed.

U. S. Circuit Court of Appeals—Sixth Circuit.

RODMAN CHEMICAL CO. *v.* STEEL TREATING EQUIPMENT CO.

Decided April 5, 1923.

[288 Fed. Rep. 471.]

PATENTS—949,446, FOR MATERIAL FOR CASEHARDENING STEEL, VOID FOR LACK OF INVENTION.

The Rodman patent, No. 949,446, for material for casehardening steel, *Held* void for lack of invention in view of the prior art.

APPEAL from the District Court of the United States for the Eastern District of Michigan; Arthur J. Tuttle, judge.

Suit in equity by the Rodman Chemical Company against the Steel Treating Equipment Company. Decree for defendant, and complainant appeals. Affirmed.

Mr. Jo. Bailey Brown and *Mr. Frederick W. Winter* (*Messrs. Winter & Brown* and *Messrs. Pagelsen & Spencer* on the brief) for the appellant.

Mr. V. H. Lockwood (*Mr. R. G. Lockwood* on the brief) for the appellee.

Before KNAPPEN, DENISON, and DONAHUE, Circuit Judges.

KNAPPEN, *C. J.*:

Suit for infringement of United States Patent No. 949,446, February 15, 1910, to Hugh Rodman, upon material for cementing or casehardening steel, which result is effected by impregnating with additional carbon the surface of low-carbon parts while raised to a high degree of heat, thus making about the softer core a high-carbon "case," in practice to a depth of from $\frac{1}{32}$ to $\frac{1}{8}$ of an inch. Plaintiff is the assignee of the patent. The claims in issue are Nos. 1, 2, and 5, which are reproduced in the margin.[1] The defenses are invalidity of the patent for lack of novelty and invention, and noninfringement. The district court held the patent invalid for the reasons urged by defendant, and dismissed the bill, without filing an opinion.

The art of casehardening steel is very old; it is understood to have been practiced for about 200 years. Under modern methods it has been effected in either of three ways: (1) By so-called "dry-packing," in which the steel parts are embedded in a dry, carbonaceous material inclosed in a sealed pot placed in a furnace, whereby the temperature of the pot and its contents is raised to a red heat; (2) gas carbonizing, by which carbonaceous gas, heated from without, is passed over the red-hot steel in the pots; (3) the fused salt method, by which the red-hot steel parts are plunged into a liquid bath of salts, such as cyanide of potassium, etc. In carbonizing steel throughout (as distinguished from casehardening), the carbonizing material is introduced into the furnace which holds the molten metal. The effect of each of these methods is essentially the same; that is to say, a higher carbonization of the steel in the "case," or throughout, as the case may be, through the absorption of carbon to a greater or less extent.

The specification states, among other things, that casehardening by dry packing had hitherto involved the use of more or less costly carbonaceous material, such as bone dust or powdered charcoal, used alone or mixed with soda ash or lime; that it had been thought that the action of the bone dust or powdered charcoal is accelerated or intensified by adding thereto such substances as lime or sodium carbonate; that the inventor has found that coke, which he declares to have in itself practically no casehardening properties, but which he states is a comparatively pure and cheap form of carbon, can be rendered active as a casehardening material by adding thereto an energizing substance, such as lime, sodium hydrate, or soda ash, which materials, it is stated, have been found not to mar or pit the surface of the metal articles or parts treated. The inventor defines "energizing substance" as—

> such material, not necessarily carbonaceous material, as will, when added to an inactive carbonaceous substance, render such carbonaceous substance active as a carbonizing agent.

The asserted discovery that coke so energized is convertible from an inert into an active agent broadly constitutes the claimed invention of the patent.[2] The statement that the material referred to does not mar or pit the surface (in substance embodied in the first claim) is apparently designed to distinguish from a reference to the prior art which will hereafter be noticed.

That in the carbonizing art coke was, before Rodman, recognized broadly as a carbonizing element, appears by its conceded use in carbonizing molten steel, in connection with lime as a flux; also by the admitted fact that certain prior British patents mention or suggest the use of coke as a substitute for charcoal in materials for generating carbonizing gas.[3] Assuming, at least for the pur-

[1] 1. Cementing or case-hardening material containing coke and energizing substance which will maintain a smooth surface on the metal parts to be treated.
2. Cementing or case-hardening material containing coke and soda ash.
5. Cementing or case-hardening material consisting essentially of coke and soda ash.

[2] By way of greater elaboration, plaintiff's counsel define the claimed invention as "the discovery of a new compound of old materials (coke and soda ash) for the first time used and disclosed as packing for case hardening," or "as the discovery that coke, an inert carbon, not naturally adapted to case hardening, and regarded as useless, by practical men in the art could be substituted for charcoal in the previously known charcoal and soda ash packing compounds, with resulting advantages of durability, greater thermal conductivity, structural strength, longer life of material, greater availability of raw material, cheapness of manufacture, and other improvements."

[3] The James and Jones patent of 1868 (No. 1,181) expressly states that "powdered coke may be economically substituted for charcoal." Aube (No. 3,364) of 1880 (classified by defendant as in the dry-packing art, and by plaintiff in that of gas carbonizing), in which the inventor places in the retort layers "of charcoal or of coke," alternating with layers of the iron articles to be treated, etc. In the Imray patent (No. 7,351) of 1895 (apparently a dry-packing process) it is said that "the carbonaceous material may be animal or vegetable charcoal or coke or a mixture of any or all of those." For present purposes it is not of controlling importance that in the Imray patent no energizer is mentioned for either coke or charcoal. In the Kraft patent (No. 4,976) of 1876 the inventor says he may use "vegetable charcoal, peat, coke, or any like kind of vegetable materials," for packing the steel.

poses of this opinion, that Rodman's invention relates only to material for use in the dry-packing process, as distinguished from the gas-carbonizing method (in spite of the unrestricted language of his claims), we think the gas process is in an art clearly analogous to that of dry packing. In both the carbonization is effected by direct action of the carbonaceous gases upon the steel to be treated, and the fact that in the dry-packing art there is immediate contact between the treated steel and the carbonizing agents (lacking in gas carbonizing) is not enough to prevent substantial analogy between the two arts. Indeed, the reason for the asserted difference in the carbonizing effect of coke in the gas-carbonizing and dry-packing arts, respectively, is not made clear by the record.

Turning to the dry-packing art: The Froggatt British patent of 1884 (No. 10,260) discloses a mixture composed of charcoal, soda ash, and limestone "in suitable proportions"; the proportions of the ingredients found in actual process most successful being also given. The United States patent to Bates of 1890 (No. 428,445) discloses a carbonizing mixture for casehardening by the dry-packing method, comprising carbon—

such as pulverized charcoal, still coke or the like, cryolite, to which may be added salt, lime or rosin or carbonate of soda.

Still coke is coke formed by the distillation of petroleum. The words "still coke or the like" are, on their face, broad enough to include ordinary commercial coal coke; and plaintiff's counsel concedes that this patent "describes a number of packing mixtures for case-hardening," and that "some of these comprise coke and soda ash." Plaintiff, however, criticizes the Bates patent as a reference upon the ground, supported by testimony of competent experts, that cryolite pits the surface of the steel casing, and that therefore its disclosure in connection with the other ingredients renders the whole combination not only useless but harmful.[4] Passing by the testimony on defendant's part of an able and expert metallurgist to the effect that the Bates compound, including the cryolite, is not harmful, the record contains no suggestion that his compound, if limited to coke and lime, or coke and soda, would be inoperative. As already said, there was concededly a disclosure of coke in connection with carbonate of soda, which is soda ash.[5] We have not cited all the prior art references relied upon by defendant, nor all of plaintiff's criticisms upon those cited, where not, in our opinion, seriously impairing the effect we have given them.

In our opinion direct anticipation of the patent in suit is not found in the prior art. The question of invention, however, stands on a different basis. It is conceded that, in view of the prior art, plaintiff has the burden of showing, among other things, that Rodman definitely taught the art something it did not know before, and that the new combination was not obvious.

We do not understand it to be claimed that coke is a wholly inert carbonizer of steel, or that it was so regarded by practical users previous to Rodman. The contrary, we think, fairly appears from the use of coke, not only in carbonizing metal throughout, but in the process of gas carbonizing. In each of these processes charcoal and coke were both usable. The object of all forms of carbonizing is to increase carbon content. We think the utmost of plaintiff's permissible contention in this respect is that coke is not in itself a sufficently active carbonizer as to produce practical results under conditions attending dry-packing methods. We are not convinced that coke was regarded by practical men as useless in the dry-packing art. More than one inventor, as shown by prior patents, regarded coke as useful in the art. The effects of their disclosures are not destroyed by the failure to show actual practice of the inventions of these patents. There is no presumption of lack of such practice. Indeed, Rodman concedes that coke is a carbonizer of metals when "practically at the point of fusion."

Coke and charcoal are chemically very similar; each has a high carbon content; each is the result of distillation. The chemical distinction lies principally in a slight difference in ash content; structurally there is a slight difference. Even charcoal was not in itself a sufficiently active carbonizer to produce in the dry-packing method satisfactory commercial results without the aid of an energizer. The very fact that such energizer was used so indicates; but the evidence thereof is not confined to proof of such use. Until recent years charcoal was cheap and plenty, and there was no occasion to consider coke. The great demand, however, for casehardening of metals, largely contributed to by automobile manufacture, far exceeded the available supply of charcoal, which thus became several times more expensive than coke. In these circumstances, and in view of the fact that coke was used in carbonizing metal throughout, as well as in the gas-carbonizing process, the disclosures of such use in the dry-packing art already referred to, the fact that soda ash and lime, either singly or in combination, for energizing charcoal were not only disclosed by the prior art but actually in practical use (and notwithstanding that mere analogy is not, in chemistry, usually so certain an index as in mechanics. (*Toledo Co.* v. *California Co.*, C. C. A. 6, 268 Fed. 201, 204). We think the application to coke of a well-known energizer of charcoal would naturally be obvious to the skilled metallurgist. The case here involves merely a compound of materials.

The favorable public reception of the Rodman compound does not, in our opinion, contribute substantially to a conclusion of invention. It appears that four manufacturers of casehardening compounds have taken licenses under the patent in suit; two of them manufacture a product said to be practically the same as defendant's, and use, roughly, equal parts of coke and charcoal. None of these licenses were taken out in the early life of the patent. While Rodman estimates the annual royalties from his licenses at $10,000 to $15,000 per year, there were included therein nine other Rodman patents, and there is no satisfactory evidence of the extent to which the patent in suit contributed, although we assume there was a substantial contribution. Moreover, although plaintiff manufactures two carbonizing compounds for casehardening, each of these contains charcoal (although that element is not in either specification or claims mentioned as belonging to the compound of the patent, and although Rodman's invention is not claimed to cover the use as casehardening material of charcoal in combination with soda ash and lime, or with either of those alkalies), and his coke and soda ash compound is not on the market or used by manufacturers except as combined with charcoal. Taking all these facts into account, there is little significance in the fact that a considerable majority of commercial casehardening compounds contain coke and a chemical energizer as a substantial ingredient of the compound, which means in practical effect that the compounds so used include coke in addition to charcoal, and in part as a substitute in volume therefor. It would therefore seem that, in point of practical and commercial results, what Rodman has done is merely to use for a combination of charcoal and coke an energizer formerly used for charcoal only. There seems to be no claim that the patented compound is superior to the charcoal and alkali compound previously used, except in point of cheapness, availability, and strength; the latter quality enabling its reuse without abrasion and burning, as is said not to be the case with charcoal. But these considerations do not alone create invention; they merely supply the element of utility.

These considerations lead us to conclude that the claims in suit lack invention. The decree of the district court is accordingly affirmed.

[4] This Bates patent is presumably the patent from whose disclosure the first claim of the Rodman patent in suit was intended to distinguish.

[5] Claims 3 and 4 of the patent in suit, neither of which is infringed or sued upon, call for a hardening material, the one containing "coke, soda ash, and lime," the other "coke and lime."

U. S. Circuit Court of Appeals—Fifth Circuit.

ATLANTIC, GULF & PACIFIC CO. *v.* WOOD.

Decided March 1, 1923; rehearing denied April 7, 1923.

[288 Fed. Rep. 148.]

1. PATENTS—LAST SMALL CHANGE, WHICH IS EFFECTIVE, IS ENTITLED TO PROTECTION.
   Where the changes made by plaintiff from former pumps were not great, but were effective in producing a pump which would not be clogged by solid substances, plaintiff is entitled to protection.
2. SAME—COMMERCIAL SUCCESS IS EVIDENCE OF PATENTABILITY.
   The fact that plaintiff's pump was at once successful commercially, as well as mechanically, is sufficient to require the resolving of any doubt as to patentability in favor of the patent.
3. SAME—DOUBT AS TO ANTICIPATION RESOLVED IN FAVOR OF PATENT ATTACKED.
   Where anticipation is relied on as a defense, it should be clearly proved, and in cases of reasonable doubt the doubt should be resolved in favor of the patent attacked.
4. SAME—FAILURE TO PUT PRIOR PATENT TO USE IS MATERIAL ON ISSUE OF ANTICIPATION.
   The fact that the patent which is claimed to have anticipated plaintiff's patent was not put to practical use to any extent should be considered on the question of anticipation.
5. SAME—PRIOR PATENT SO INDEFINITE AS TO WARRANT TWO DIFFERENT THEORIES AS TO CONSTRUCTION IS NOT ANTICIPATION.
   Where the description in a prior patent, relied on as an anticipation of plaintiff's patent, was so indefinite that two radically different theories of the construction of the device therein described could be reasonably sustained by the terms of the description, it is insufficient to charge plaintiff with that knowledge, actual or constructive, which makes it anticipation.
6. EVIDENCE—CHANGE IN MODEL FROM DRAWING HELD NOT TO DISENTITLE EXPERT TO CREDIT.
   The fact that defendant's expert, who constructed a model under a patent relied on as an anticipation of plaintiff's patent, varied from the exact construction called for by the patent does not alone justify the court in refusing to consider the testimony of the expert, whose explanation of why he made the changes was not so unreasonable or so contradicted as to be incredible.
7. PATENTS—1,182,439, FOR VANES FOR CENTRIFUGAL PUMPS, HELD NOT ANTICIPATED, VALID, AND INFRINGED.
   The Wood patent, No. 1,182,439, for vanes for a centrifugal pump, intended to obviate the clogging of the pump by solid substances, *Held* not anticipated, valid, and infringed by all three of defendant's forms of pumps, which were constructed by it to achieve the same result after it unsuccessfully attempted to obtain the right to use plaintiff's pump.
8. SAME—BURDEN TO ESTABLISH ANTICIPATION IS ON HIM WHO ASSERTS IT.
   The burden to establish an anticipation is on him who asserts it.
9. SAME—DESCRIPTION ENABLING SKILLED PERSON TO MAKE MACHINE IS SUFFICIENT.
   A description in the patent of the improvements claimed which sufficiently discloses the manner and process of construction to enable a person skilled in the art to which it appertains to make the machine therein described is sufficient to comply with Revised Statutes section 4888 (Comp. St. sec. 9432).

APPEALS from the District Court of the United States for the Southern District of Alabama; Robert T. Ervin, judge.

Suit in equity by Albert Baldwin Wood against the Atlantic, Gulf & Pacific Company for infringement of Letters Patent, No. 1,182,439, issued to the plaintiff. Decree rendered, finding the patent valid and infringed by two forms of defendant's device, but not infringed by the third form and defendant appeals from so much of the decree as held the patent valid and infringed, and plaintiff takes cross appeal from that part of the decree holding the patent not infringed by one of defendant's devices. Decree affirmed, except in so far as it found that one of the defendant's devices was not an infringement, and cause remanded for further proceedings.

Mr. J. Blanc Monroe, *Mr. Monte M. Lemann*, and *Mr. F. O. Richey* for the plaintiff.

Mr. Harry T. Smith, *Mr. William G. Caffey*, and *Mr. Albert F. Nathan* for the defendant.

Mr. Walker B. Spencer, *Mr. Clyde Jones*, and *Mr. Edward Rector* (in behalf of Frank C. Wagner, Sinclair Refining Co., and Zenith Carburator Co.) amici curiæ.

Before WALKER, BRYAN, and KING, Circuit Judges.

KING, *Cir. J.*:

The plaintiff, Albert B. Wood, is an engineer who has been for many years employed by the sewerage and water board of the city of New Orleans, La., which handles its drainage and sewerage on a very large scale with pumps. He also was consulted by many pump manufacturers and has designed a number of centrifugal pumps.

In the course of the construction of the industrial (ship) canal between the Mississippi River and Lake Pontchartrain, a suction dredge was rented from the defendant, Atlantic, Gulf & Pacific Company. This dredge was equipped with a suction pump of the kind then in common use. A part of the channel of this canal led through low ground, formed from the decay of several separate cypress forests, in successive layers. This material contained many cypress roots, knees, and stumps, which caused constant clogging of the pump of the dredge and greatly hindered the work. The plaintiff was applied to and designed the pump, which he patented, which patent it is claimed the defendant has infringed.

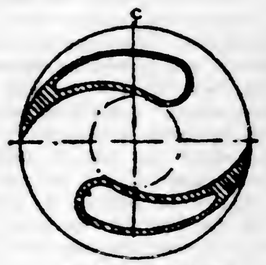
The pump proved entirely satisfactory, and through it these cypress knees, stumps, and roots would pass without clogging. The defendant was engaged in dredging work at Mobile, Ala., and after learning of the successful operation of the plaintiff's pump at New Orleans inquired on what terms plaintiff would equip, or permit it to equip, its dredge at Mobile with a similar pump. The price named by plaintiff being unsatisfactory, defendant submitted to counsel the question of the validity of plaintiff's patent. On receipt of an opinion that such patent was invalid, it constructed a pump or pumps, which were not identical with that of plaintiff, but which were not dissimilar, and which operated in like manner as that of plaintiff, and satisfactorily.

The plaintiff filed his bill of complaint in the United States District Court for the Southern District of Alabama, complaining that defendant's pumps infringe his patent. Plaintiff's patent described his invention generally as one which related—

to improvements in centrifugal pumps. Such pumps are frequently employed for pumping water containing foreign substances such as drainage water, which frequently contains roots, grass, rags, paper, and other trash of this nature, as well as blocks of wood or other solid substances of considerable volume. Such pumps may also be used for pumping dredge water, which may sometimes contain stones of considerable size. These objects frequently lodge in the pump, sometimes placing it out of service entirely, and at least greatly reducing its efficiency. Indeed, sometimes the nature of the foreign substances lodging in the pump may be such as to cause its injury or destruction.

Another object of my invention is to provide a pump of this nature which can accomplish the foregoing objects, and which is provided with vanes taking up little or none of the circumference of the impeller, thereby enabling me to discharge the water uniformly over the entire periphery of the impeller, thereby avoiding the creation of eddies in the volute and the consequent loss of efficiency.

The drawing of a horizontal section of the impeller is as follows:



WOOD PATENT

The patent states:

I have illustrated the embodiment shown in the drawing and its details for the purpose of better explaining my invention. I do not wish to be limited to such embodiment and details, as many departures may be made therefrom without departing from the spirit of the invention.

The claims of the patent particularly relied on in the present case are as follows:

1. In an impeller for centrifugal pumps, the combination of one or two impeller walls, a plurality of vanes having forward ends convexly rounded on all sides, such vanes extending curvilinearly from such forward ends to the periphery of the propeller and being lessened in cross-section as they approach such periphery, where their rear ends occupy but little of the periphery, permitting a uniform or substantially uniform discharge of water from the impeller, such vanes being supported from one or both of said walls.

2. In an impeller for centrifugal pumps, the combination of vane supporting walls, a plurality of vanes having forward ends convexly rounded on all sides, the forward ends being substantially semi-elliptical on cross-sections taken to the main impeller walls, the forward ends of the vanes being positioned between the center and periphery of the impeller, such vanes extending curvilinearly from the forward ends in gradually decreasing cross-section areas to the periphery of the impeller, where the rear ends of the vanes occupy but little of the periphery of the impeller, permitting free and uniform discharge of water from the impeller.

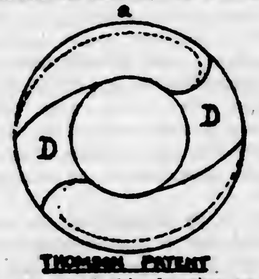
* * * * * * *

4. In a centrifugal pump impeller, the combination of vanes provided with forward ends which are rounded on a considerable radius and with rear ends occupying but little of the periphery of the impeller.

5. In a centrifugal pump impeller, the combination of a support, vanes on said support provided with forward ends convexly rounded on all sides and with narrow rear ends on the periphery of the impeller occupying but little of such periphery.

The defendant pleaded: (1) That plaintiff's patent was void for want of novelty; (2) its anticipation by several patents, the one most relied on being a British patent issued to one Thomson; (3) that plaintiff's patent was too indefinite in description of the manner and process of construction of the improvements claimed to comply with the requirements of the Revised Statutes of the United States, section 4888; and (4) that the pumps used by defendant did not infringe plaintiff's patent, even if valid.

The Thomson patent, as shown by a drawing of a horizontal section thereof, was as follows:

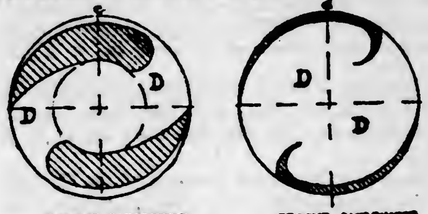


THOMSON PATENT

Thomson described this drawing as follows:

The passages or open spaces between vanes or blades are made without any sharp edges or angles that can catch or entangle any solid bodies that may be in the sewage or other liquid to be pumped, and the remainder of the circle is filled up, so as to form a circular or nearly circular wheel, which is capable of revolving under water with very little resistance. The form of the passages admits of considerable variation, according to the speed of the wheel and the height of the lift; and I sometimes make them of the form indicated by the dotted lines in the figure, and they may be rectangular or circular, or of any other convenient form in their transverse section; but in all cases they are to be made without any sharp angles or edges.

As to the alternative form of vane shown by the dotted line, plaintiff and defendant differed as to whether such line was the exterior or interior side thereof. Drawings illustrating each contention were submitted and are here given:



SECOND PATENTEE
APPELLANT

SECOND PATENTEE
APPELLEE

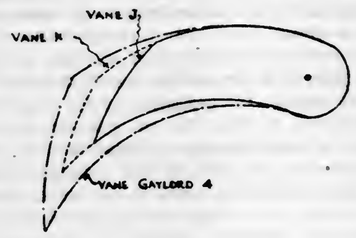
The vanes used by the defendant in its pumps were of the following shapes. They are respectively marked vanes J, K, and Gaylord 4:





Defendant's Vane Gaylord 4.

Vane J was in two forms, one shorter than the other, which was lengthened on the same lines by the addition of iron lugs. The shape of vane J with and without the lugs represented a portion of vane K, which was on the same lines, but longer than vane J. The relative dimensions of vanes K, J, and Gaylord 4 are shown by the following drawing, made a part of appellant's (defendant's) brief:



VANES J, K, AND GAYLORD 4

Much testimony was adduced, orally and by deposition. The district court rendered a decree finding that plaintiff's patent was valid; that it was infringed by the vanes K and Gaylord 4, used by defendant, but not by its vane J, either with or without the iron lugs. The defendant appeals from so much of the decree as finds in favor of the plaintiff. The plaintiff has taken a cross-appeal from that part of the decree which finds that vane J is not an infringement.

The principal contention raised by the assignments of error and the argument in this court by appellant was that the plaintiff's patent was invalid, as being anticipated. While anticipation by several patents was insisted upon, it was practically conceded that the closest to an anticipation was to be found in the Thomson patent.

It is plain from the evidence that none of defendant's infringing vanes were designed or used by it until the successful operation of plaintiff's pump on the dredge *Texas*, at New Orleans, had brought this device to its actual knowledge, and until it had failed to obtain the right to use the same. After advice that plaintiff's patent was invalid, defendant constructed and used the vanes claimed to infringe, in order to obtain a pump which would accomplish the same results as plaintiff's pump had achieved.

The Wood patent claimed the following as the improvements made by it in the art:

(1) A plurality of vanes, with conversely rounded forward head, so that trash could not catch thereon.

(2) Said vanes extending curvilinearly from such head to the periphery of the propeller, lessening in cross-section as they approach said periphery, where the rear ends occupy but little of the periphery.

(3) A production by such form of vanes of a uniform discharge of water from the impeller.

(4) The prevention of eddies interfering with such uniform discharge, the streams uniting beyond such vanes.

(5) The combinations of such vanes with one or both of the two supporting walls (above and below), through one of which the water flows into the impeller.

(6) No part of any vane to be nearer to another than the length of the diameter of such intake.

[1] (1) Prior to that time all of the pumps in use had been liable to be choked with heavy trash, such as straw, roots, etc. The operation of this pump, combining the rounded surfaces which its vanes presented, the curving and diminishing lines running toward the periphery of the impeller, in the direction in which the water flowed, the slight amount of such periphery occupied, and the practical prevention of eddies, or back currents, with the openings between the heads of the vanes, equal to the diameter of the intake through which the water entered the impeller, practically eliminated the trouble of choking and was instantly successful. While the changes from former pumps were not great, they were effective.

> In the law of patents it is the last steps that wins. It may be strange that, considering the important results obtained by Kelly in his patent, it did not occur to him to substitute a coiled wire in place of the diamond shape prong, but evidently it did not; and to the man to whom it did ought not to be denied the quality of inventor. There are many instances in the reported decisions of this court where a monopoly has been sustained in favor of the last of a series of inventors, all of whom were groping to attain a certain result, which only the last one of the number seemed able to grasp. (*The Barbed Wire Patent*, 143 U. S. 275, 283; 12 Sup. Ct. 433, 446; 36 L. Ed. 154; 58 O. G. 1555.)

(See, also, *Loom Co.* v. *Higgins*, 105 U. S. 580, 591; 26 L. Ed. 1177; 21 O. G. 2031; *Consolidated Valve Co.* v. *Crosby Valve Co.*, 113 U. S. 157, 179; 5 Sup. Ct. 513; 28 L. Ed. 939; 30 O. G. 991.)

[2] The Wood pump was at once successful commercially as well as mechanically.

> In view of the phenomenal success of the patented pipe, after the public became aware of its advantages, * * * we are of the opinion that any doubt as to patentability should be resolved in favor of the patent. (*Stillwell* v. *McPherson, Highway Com'r*, 218 Fed. 839, 840; 134 C. C. A. 611, 612.)

(See, also, *Mineral Separation, Ltd.*, v. *Hyde*, 242 U. S. 261, 270; 37 Sup. Ct. 82; 61 L. Ed. 286; 234 O. G. 1311.)

We think that the Wood patent was not invalid for want of novelty.

[3] (2) A defense most earnestly urged was that plaintiff's invention had been anticipated by several patents. Where anticipation is relied on as a defense, it should be clearly proved, and, in cases of reasonable doubt, the doubt should be resolved in favor of the patent attacked. (*Coffin* v. *Ogden*, 18 Wall. 120; 21 L. Ed. 821; *Victor Talking Machine Co.* v. *Duplex Phonograph Co.*, C. C., 177 Fed. 248; *Simonds Rolling Machine Co.* v. *Hathorn Mfg. Co.*, 93 Fed. 958; 36 C. C. A. 24; 88 O. G. 2066.)

[4] Referring to the Thomson patent, which is claimed to have anticipated the Wood patent, it does not appear to have been put to practical use to any extent. That this should be considered on the question of anticipation is settled. (*Deering* v. *Winona Harvest Works*, 155 U. S. 286, 302; 15 Sup. Ct. 118; 39 L. Ed. 153; 69 O. G. 1641.)

Before discussing the differences between the two pumps, notice should be taken of the differing contentions of plaintiff and defendant as to the shape of the alternative vane stated in the patent. The alternative vane is indicated by the dotted line shown on the cross section of the drawing of such vane above given. The plaintiff insists that the dotted line constitutes the face of the vane nearest to the passages between such vanes. The defendant insists that it is the external face of the vane and does not touch the passages. The respective contentions are illustrated by the drawings heretofore given.

It was practically conceded by the counsel for plaintiff, Wood, that if the defendant's contention was correct the Thomson patent would anticipate the Wood patent. The district judge in his decision stated that, so construed, he would have considered it an anticipation, but that in his opinion the plaintiff's contention was the correct view, or at least that the description of such alternative in the patent was so indefinite and uncertain that it would not establish an anticipation.

[5] We agree with the court below that the Thomson patent so lacks that definite description of what is intended by such alternative form of the Thomson vane that it does not charge the plaintiff with that knowledge, actual or constructive, which makes it an anticipation.

> A document [patent] so obscure in its terminology that two conflicting theories may be deducted therefrom and supported by equally plausible arguments is too indefinite to be utilized as an anticipation. (*Cimiotti Unhairing Co.* v. *Comstock Unhairing Co.*, C. C., 115 Fed. 524.)

(See, also, *Hillard* v. *Fisher Book Typewriter Co.*, 159 Fed. 439, 441; 86 C. C. A. 469; *Stead Lens Co.* v. *Kryptok Co.*, 214 Fed. 368, 375; 131 C. C. A. 144.)

Under the descriptive language of the Thomson patent, the plaintiff's contention as to the shape of the alternative vane therein would seem the most probable. The portions of such description dealing with such vane indicate that the inventor's mind was on the passages through which the water would flow between his blades or vanes, and that the modification in the shape of the vanes was made in order to change the form of such passages. He says:

> The form of the passages admits of considerable variation according to the speed of the wheel and the height of the lift, and I sometimes make them [the passages] of the form indicated by the dotted line in [the] figure.

The passages referred to are described as marked D D, on the drawing accompanying the patent, and indicate the openings between the vanes. If the dotted line, as shown in this drawing, is taken to be the inner line of the vane or blade, next to the passage, the form of the passages are changed as above stated. If such dotted line is taken to be the exterior line of the vane, as claimed by the defendant, then the form of the passages in each case is identical and is the space between the same line, which in each case constitutes the side of the vane next to the passage, leaving the passage the same with both forms of vane or blade.

It is insisted that the statement that the passages are without sharp angles or edges shows that the

reference is to the vanes or blades, and that the passages, being openings, can not have angles. This, however, ignores that the patent expressly states:

> The passages DD [which the drawing shows are the openings] are without sharp edges or angles that can catch or entangle any solid bodies that may be in the sewage, etc.

The point of view would altogether control, whether the opening, or passage, is described as having angles or edges, or whether the solid bodies bounding it and giving it shape are considered as having the angles or edges. It is quite common to speak of a passageway as having turns or angles, instead of saying that its walls have such turns or angles. The obstruction caused by solid matter catching on a sharp edge or angles would obstruct the passage and choke or obstruct it.

Considering the outer wall of each vane claimed in the Thomson patent as being the same, we are of the opinion that it does not anticipate the Wood patent. Such outer wall occupied the periphery of the impeller for almost its entire distance. Instead of leading the water on lines which converge at the tail of the impeller, it would give such flow a divergent tendency likely to cause eddies and prevent the steady carriage of solid matter to the discharge pipe.

In reaching these conclusions, concerning the form of the vanes and the effect of the Thomson patent, we have given due consideration to the testimony of the witness Prof. Frank C. Wagner, which the district judge declined to consider for reasons stated in the opinion filed in this case. We do not think these reasons authorized the exclusion of the evidence of the witness. If well taken, they only bore on the credibility of his testimony, but did not warrant a refusal to consider it at all.

[6] While we recognize that in many cases experts consider themselves too much as the partisans of the side calling them, we fail to find in the circumstances of this case sufficient reason to conclude that the witness Wagner intended to deceive the court by the variation made in his model of the Thomson patent. The only change made was in the angle and exact location of what was intended to represent the alternative vane or blade thereof. The district court found, and it was practically conceded by all parties, that if such alternative vane was as contended for by the defendant, with a model thereof identical with the drawing of the patent so construed, the Thomson patent would show an anticipation of the Wood patent. The entire controversy was not as to the location or angle of the vane, if as claimed by defendant to be shown by the patent, but as to whether the alternative vane, however placed, was shaped as claimed by plaintiff or defendant.

The variation in position, shape, or angle made in the model of Wagner did not in any way change its general shape or give it any different effect as an anticipation from that conceded to exist in the alternative vane, if given the shape contended for by the defendant when placed in exact conformity with the drawing attached to the patent. The explanation given by the witness of why he made the changes in his model was not so unreasonable, or so contradicted, as to be incredible.

[7] According to the witness' entire sincerity, we do not think, however, that his testimony outweighs the testimony which supports the plaintiff's contention, and conclude that the Wood patent was not anticipated by the Thomson patent. We are of the opinion that there is less reason to regard any of the other patents claimed to anticipate Wood's patent as so doing.

[8] As is evident from the authorities hereinbefore cited, the burden to establish an anticipation is on him who asserts it, and the defendant has failed to sustain this burden.

[9] 3. The description in the Wood patent of the improvements claimed sufficiently discloses the manner and process of construction to comply with Revised Statutes of the United States, section 4888 (Comp. St. sec. 9432). A person skilled in the art or science to which it appertains could take the patent and its accompanying drawing and make the machine therein described. This is sufficient to fulfill the requirement of the law. (*United States* v. *Anciens Etablissements*, 224 U. S. 309; 32 Sup. Ct. 479; 56 L. Ed. 778; 178 O. G. 591.) On this subject the Supreme Court of the United States has held:

> But it is said that the patent in suit discloses no means of practically operating the method shown, and therefore, as said by the learned judge in the Third Circuit, "it is but the expression of a happy thought;" but the requirement of the patent law, in order to make a method or process patentable, is that the patent shall indicate to those skilled in the art the adaptation of means to put it into practice. We think this record amply discloses, while no complete mechanism is pointed out in the specifications, enough to indicate to those skilled in such matters a mechanism whereby the method of the patent can be put into operation. (*Expanded Metal Co.* v. *Bradford*, 214 U. S. 366, 380; 29 Sup. Ct. 652, 655; 53 L. Ed. 1034; 143 O. G. 863.)

4. After failing to agree with plaintiff on terms for the use of his pump, and securing an opinion adverse to the validity of his patent, the defendant changed the impellers and vanes in its pumps and sought by the use of the three shapes of vanes to secure a pump which would operate as successfully as that used by the plaintiff. It evidently recognized plaintiff's pump as an improvement on its then existing pumps, and sought to attain like improvement in its own. The question is: Do the vanes introduced and used by the defendant infringe plaintiff's patent?

It is urged that they do not, because among other things, the defendant uses three, instead of two, vanes, thus making the distance between the heads of the vanes less than the diameter of the intake to the impeller. It is sufficient to say that the claim of the Wood patent is for a plurality of vanes; it is not confined to two, and that the distance between the heads can be increased and regulated by the distance the head is placed from the center of the impeller. In each of the vanes used by defendant the same convex head,

without angles, is used; the vane is curvilinear as it goes toward the periphery, and the proof shows that the water flowing along the sides of the vanes comes together behind. The outer angle at the tail of each is an obtuse angle, and the water passing it would tend to flow on a line likely to go towards the water flowing along the other side of the vane and not divergently. The district court found that the vanes K and Gaylord 4 infringed the plaintiff's patent, and we agree with him.

5. The district court, however, found that vane J, with or without the iron lugs attached, did not infringe such patent. The plaintiff has taken a cross appeal from so much of the decree. We are unable to agree with the district court. The vane J is identical for its length with vane K. Its lines are the same. Its head is the same, and its angles are the same. It would of necessity throw off the water on the same lines. We understand this to be the testimony in the case. The only effect of the iron lugs added is to lengthen it. They do not alter its shape, but only bring it into closer identity with vane K. This is apparent by the figure given heretofore, showing the vanes J, K, and Gaylord 4 superimposed on each other. We therefore think that vane J, without or with the iron lugs, infringes the plaintiff's patent, and so much of the decree as holds that it is not an infringement should be reversed.

While there may be some points made by the appellant's brief and assignments of error which are not specifically treated in the above opinion, they are either controlled by what is decided, or we do not think they call for separate mention. We find no harmful error, except as to so much of the decree as deals with vane J.

The decree of the district court is therefore affirmed, except so much thereof as finds that defendant's vane J is not an infringement of the plaintiff Wood's patent; this portion of said decree is reversed. The cause is remanded for further proceedings not inconsistent with this opinion, with costs of both appeals against the appellant, Atlantic, Gulf & Pacific Company.

U. S. Circuit Court of Appeals—Fourth Circuit.

A. S. KRATZ CO., INC., *v.* DOUBLE ENVELOPE CORPORATION.

Decided May 1, 1923.

[288 Fed. Rep. 971.]

1. PATENTS—CARRYING FORWARD OR EXTENDING APPLICATION OF ORIGINAL THOUGHT IS NOT "INVENTION."

Though no general definition can be laid down distinguishing improvements which rise to the point of invention and those which naturally result from the application of mechanical skill, a mere carrying forward or new or more extended application of the original thought or a change only in form, proportions, or degree, doing substantially the same thing in the same way, by substantially the same means, with better results, is not "invention."

2. SAME—1,181,970, FOR CHURCH CONTRIBUTION ENVELOPES, HELD VOID FOR WANT OF INVENTION.

The Kratz patent, No. 1,181,970, for a church contribution envelope on which the dates were not printed, but which had four envelopes for each month, with a separate group of envelopes for the fifth Sunday in the months having five Sundays, so that the envelopes could be used in successive years, *Held* void for want of invention.

APPEAL from the District Court of the United States for the Western District of Virginia, at Lynchburg; Henry Clay McDowell, judge.

Suit in equity by the A. S. Kratz Company, Incorporated, against the Double Envelope Corporation, for infringement of a patent. From a decree dismissing the bill, plaintiff appeals. Affirmed.

Mr. Robert H. Talley (*Messrs. Edmunds & Hamner*, *Mr. Willis C. Pulliam*, and *Mr. C. D. Davis* on the brief) for the appellant.

Mr. John L. Abbot (*Mr. James A. Bear* and *Messrs. Kemp, Barksdale & Abbot* on the brief) for the appellee.

Before KNAPP, WOODS, and WADDILL, Circuit Judges.

WOODS, *Cir. J.*:

The A. S. Kratz Company sues for infringement of Patent No. 1,181,970, for a church contribution envelope. Contribution envelopes for church purposes are in very general use. Stated in short, Kratz's claim of invention is this:

The ordinary church contribution envelopes were printed for specific dates of the Sundays in the year, thus, "January 1, 1922," "January 8, 1922," and so on for the entire year. As the Sundays for one year do not fall on the same day of the month for the succeeding year, the envelopes as printed were good only for the year for which they were printed. The chief disadvantages were the waste of the envelopes left over from one year being useless for the next, and the probability of the church not ordering enough, in the desire to avoid the waste of having envelopes left over. To meet these difficulties, Kratz obtained a patent for 13 sets of envelopes, 12 sets of four for each month in the year, on which are printed the name of the month followed consecutively by "1st Sunday," "2d Sunday," "3d Sunday," "4th Sunday," and a thirteenth set of five, on which is printed "5th Sunday," after a blank for the name of the month. Since any of these envelopes left over from one year may be used any succeeding year, there is no waste.

The district judge, holding the patent invalid, dismissed the bill. The utmost that can be claimed for the patent is an improvement over the prior art in the method of printing dates on church contribution envelopes.

[1] No general definition can be laid down distinguishing improvements in the art rising to the point of invention and improvements which would naturally result from the application of mechanical skill to the development of the art or the demands of the trade.

A mere carrying forward or new or more extended application of the original thought, a change only in form, proportions, or degree, the substitution of equivalents, doing substantially the same thing in the same way, by substantially the same means, with better results, is not such invention as will sustain a patent. These rules apply alike, whether what preceded was covered by a patent or rested only in public knowledge and use. In neither case can there be an invasion of such domain and an appropriation of anything found there. In one case, everything belongs to the prior patentee; in the other, to the public at large. (*Smith v. Nichols*, 21 Wall. 119, 22 L. Ed. 566; *Market Street Railway Co. v. Rowley*, 155 U. S. 621, 629; 15 Sup. Ct. 224; 39 L. Ed. 284; 70 O. G., 632.)

Benjamin Menu Card Co. v. Rand, McNally & Co. (C. C., 210 Fed. 285), *Cincinnati Traction Co. v. Pope* (210 Fed. 443; 127 C. C. A. 175; 204 O. G., 675), *Rand, McNally & Co. v. Exchange Scrip-Book Co.* (187 Fed. 984; 110 C. C. A. 322, and *Mitchell v. International Tailoring Co.* (C. C., 170 Fed. 91), relied on by plaintiff, involved somewhat similar patents but in each of them there was an element of invention not present here.

[2] We have recently gone over the ground in deciding the very similar case of *Duplex Envelope Co. v. A. S. Kratz Co.* (D. C., 225 Fed. 68), holding the patent invalid for lack of invention. Applying the reasoning of that case we think the patent of the plaintiff shows no invention.

Affirmed.

KNAPP, Cir. J., who took part in the hearing of this case, died before the opinion was announced.

U. S. Circuit Court of Appeals—Sixth Circuit.

LAURITZEN ET AL. *v.* BANNER MACH. CO.

Decided March 13, 1923; rehearing denied May 8, 1923.

[287 Fed. Rep. 692.]

1. INVENTION—CONSTRUCTION OF CLAIMS—INFRINGEMENT.

Claims 1, 2, 5, and 9 of Nesbitt patent, No. 1,297,226, for a separable core used in building automobile tires, construed and *Held* to involve invention rather than mechanical skill, and not infringed as to claims 5 and 9, but infringed as to claims 1 and 2.

On petition for rehearing.

2. ESTOPPEL — INTERFERENCE — PREVAILING PARTY MAY BROADEN CLAIMS.

Held that the conduct of the successful party and the positions taken by him in an interference upon a specific issue did not estop him from afterwards obtaining broader claims which dominate the issue.

APPEAL from the District Court of the United States for the Eastern Division of the Northern District of Ohio; D. C. Westenhaver, judge.

Bill by John C. Lauritzen and others against the Banner Machine Company. Decree for defendant, and plaintiffs appeal. Affirmed in part, and reversed in part.

Mr. Wm. F. Hall for the appellants.

Mr. Harry Frease for the appellee.

Before KNAPPEN, DENISON, and DONAHUE, Circuit Judges.

DENISON, *Cir. J.*:

The bill filed in the district court by appellants here charged an infringement of patent granted to them on March 11, 1919, as assignees of Nesbitt et al., No. 1,297,226, for a separable core used in building automobile tires. The district court gave a narrow construction to the claims, whereby it resulted that they were not infringed. Claims 1, 2, 5, and 9 were in issue.

The device consists of two primary parts—the separable core and the locking ring. The core is of solid metal, annular in form. Its main part is cylindrical in cross section. It carries an inwardly-projecting continuous radial flange, with a flat surface on one side, and having on this side a complete annular groove sunk into the flange surface to a substantial depth. This core and flange are divided into at least two parts by cuts, leaving between them a separable key section substantially less than half, and the cuts are at such an angle that the section is removable inwardly. The locking ring is of a size and form to fit the groove in the flange. It follows that, when the two sections of the core are placed together and the ring dropped into the groove, the two sections will be held together, and when the ring is removed they will come apart. Thus the tire can be built and vulcanized upon the core, and when it is finished and the locking ring is withdrawn, the separable section can be moved inward out of the tire, and the tire can then be taken off from the remainder of the core.

[1] It is obviously necessary that the ring should be held firmly against displacement while the tire is being formed. This had been done by a series of nuts and bolts, registering holes being provided through the ring and the bottom of the groove to the other side of the flange. In these holes threaded bolts were inserted and the nuts placed thereon were turned down to make the device rigid, and when it was desired to have the core collapse, the nuts and bolts were taken out and the ring removed. It occurred to Nesbitt (we refer to both the joint inventors by the name of one) that the locking ring would be held with sufficient permanence in its effective position, if it were so constructed as to make with the groove a driving fit, so that as it was forced into the groove it would bring the core sections tighter together, endwise, and would stay in position until it was driven out again by a suitable reverse driving or other force. He experimented with this until he built it in an effective and operative form and found it successful. The specific form in which he made his first working device, and which is shown in his patent drawing, provides complementary tapers upon the inner side of the groove and the contacting inner side of the ring, whereby in driving in the ring there is a wedge action between the ring and the flange, operating to force the core sections together; but it is the patentees' theory, essential to a finding of infringement here, that this tapered form of groove and ring was the specific invention covered by claims not in suit, while the more generic invention consisted in the use of the ring with a driving fit, with no aid from other parts, and no matter whether the contacting edges of the ring and groove were tapered or were at right angles to the plane of the core—a self-retaining ring, effective by itself alone, as a core-section retainer lock.

We have concluded that this broader idea involved invention, and was patentable over the old form, which used the bolts, and over other forms

shown in the published art. The reasons which lead to that conclusion rather than the other are never demonstrative, and it is not profitable to attempt to state them at length. The change was undoubtedly of substantial utility; the older and less rapid and more complicated forms had been long in use; several different and apparently commercially unsuccessful attempts had been made to get something better; and when this improvement was made it received very substantial, although not universal, recognition and acceptance. We think it should be deemed, under all the environment shown by the record, invention rather than mere mechanical skill.

We are satisfied, also, that claims 1 and 2 should be interpreted as not limited to the tapered form, but as satisfied by the straight-sided form. This conclusion results from a study of the language of the repective claims and of the proceedings in the Patent Office. For this purpose claim 1 may be taken as typical of the broader class. It is:

> A core of the character described comprising a plurality of separable sections having inwardly extending portions provided with grooves, which, in the assembled condition of the sections, provide an annular channel, and an annular locking ring adapted to be forced into and out of the said channel by substantially direct axial movement and to be retained in locking position by frictional engagement.

Claim 8, on the other hand, expressly calls for "an endless taper ring," and claims 3 and 4, among others, specifically call for "an annular wedge ring." Unless there is something in the specification or Patent Office proceedings which forbids, it is a reasonably clear inference that the "annular locking ring" of claim 1 should not be affected with the limitation carried by the reference to the "wedge" and the "taper" form in the other claims cited.

The Patent Office proceedings rather confirm than dispute this natural inference. As the application was filed, all the claims were plainly confined to and recited the wedge elements. The application went into interference with three others, and after some months of delay the decision was in Nesbitt's favor. Following the usual practice, and taking the benefit of the education gained by the interference, Nesbitt then added five more claims (4–8). One of these called for a taper, but the other four did not, and the references to the ring were substantially in the same form as in issued claim 1. Thereafter, and when the Nesbitt application had been pending for about two years, Yemiker filed an application, the only claim of which expressly called for a ring and groove with a complementary taper in each in the precise form which Nesbitt had stated to be his preference. An interference was declared between Nesbitt and Yemiker. At the suggestion of the Patent Office, Yemiker had copied claims 1 and 8 of the Nesbitt application, and these became counts 1 and 2 of the interference. Count 1 was the same as claim 3 of the issued Nesbitt patent (not now in suit). It expressly called for the wedge ring. A similar call and limitation in count 2 of the interference, being claim 8 of the Nesbitt application at that time, and claim 9 of the Nesbitt patent as issued, were not express, but it was eventually held by the Patent Office that they were implied. The interference between Nesbitt and Yemiker thus progressed, with issues limited to the specific form of taper ring, while all the time Nesbitt had in his application, and substantially allowed, the broader claims to the locking ring regardless of taper. That these underlying claims were possibly forgotten in some of the interference decisions cannot change the fact or its effect.

At this point we may well observe the distinction there is between the two forms of rings and their functions in this connection. When the separable core sections are placed together endwise, as closely as they naturally would be, and as they must be in order to form the continuous annular groove, very little further motion is possible; but whatever tends to pull the sections inward radially will tend to force them further together endwise, and to bring them exactly into the predetermined perfect circle. Hence it is evident that the tightening and holding effect of driving in the ring will come from the resistance of the sections against moving inwardly and from the friction thus resulting between the inner edges of the groove and the close-fitting ring. Since the total of permitted motion is almost negligible, the effect would be practically the same whether these edges are tapered or straight. In either case there is a driving fit and nothing more. The difference is that, with the wear which comes from use, the straight-edged form will have a tendency to cease to be sufficiently tight fitting, while with the tapered form this wear is compensated by driving in a little further, and the taper permits more inaccuracy in assembling the parts before starting to drive the ring. We think it is clear enough that there would be no invention in merely substituting a taper edge for a straight one in this combination; nor do we understand that the Patent Office held to the contrary. Nesbitt's claim to the specific form was upon the basis of his other broader claims, and the differentiation justified the specific claims; while from the standpoint of the Yemiker application he was the first to form either the straight or the tapered edge, and therefore had a right to make the claim in interference as well as the broader one, unless the straight-edged form was disclosed by his patent of August, 1914, in which case he had abandoned any right to the broad claim.

In the Yemiker-Nesbitt interference, it appeared that they were workmen in the same factory; that Nesbitt finished the first full-sized working core embodying his friction ring about January 20, 1913; and that he had been engaged for a considerable time before that in making the necessary plans, drawings, molds, and castings. He dates conception back to the early part of December, 1912. He has some corroboration. Yemiker claims conception and disclosure back in June and September, 1912; but his corroboration was held by all the Patent Office tribunals to be insufficient so far as it pertained to a wedge ring. We agree with this conclusion, though for additional reasons.

The case turned in the Patent Office tribunals and in the district court upon the effect of an admission by Nesbitt in his testimony that Yemiker had made a certain disclosure to him about January 14, 1913. The Patent Office rejected this disclosure, because it did not reach the wedge form, and therefrom the district court drew the inference that, not only the Nesbitt claims, which were in interference, though not now in suit, are limited to the wedge form, but that the broader Nesbitt claims, which were not in the interference, but which are now in suit, are also so limited.

If this disclosure of January 14 were out of the way, it would still not be easy to see why the testimony of Nesbitt and his witnesses should not be accepted to the effect that he already had his complete invention before this date; but we proceed to a further study of this disclosure, assuming that if it had covered the subject matter of the claims now in suit, the Nesbitt patent must fail.

Yemiker had two earlier patents, one filed in April, 1910, and one in May, 1912, covering methods of reaching the desired result by a contractile ring fitting in a groove practically like that of the Nesbitt patent and the old art. In August, 1912, he filed an application on a device which had no groove or ring, but in which each two segmental core sections were held together by a pair of wedges inclined away from each other, connected by a bridge at their heads, and driven into corresponding inclined slots in the respective sections. Thus, as the wedges were driven in, the sections were pulled endwise together and were also held against relative radial motion. At some later time the thought occurred to him to unite these wedges with the groove and ring which were old in the art. This was obviously by way of improvement upon his form applied for in August, and a court is not to be easily convinced that he had this improvement in June and July, and made no reference to it in his August application. However, at some time he did get this idea, and this was what he explained to Nesbitt early in January. It will be remembered that the old art did not disclose any ring, which, because of its taper or any kind of driving fit, served effectively as a self-retaining lock, and there is no reason to think that the device or idea of Yemiker explained to Nesbitt contemplated any such ring. It was rather the precise thing shown in Yemiker's August, 1913, application, viz a ring with four of these peculiar compound tapered wedges projecting from its bottom, and the flange had not only the groove, but had corresponding slots extending through its bottom to receive these tapered wedges.

It is quite apparent that, unless the parts were made with watchlike precision, the ring could not have any binding or locking effect; but the full functions of the wedge drawing would have been accomplished by the wedges in the earlier part of the operation, and the ring would not be in contact at all upon its inner edge with the groove. The wedges were so made that their only direct effect was to pull the sections together circumferentially to the limit of the power of the wedges and hold them there, with any radial motion forbidden. The locking ring could function only by its tendency to cause radial motion, and this was impossible because there was no room for further motion, and if there was it would break off the wedges, if the ring and wedges were rigidly attached together. If they were separate (as Yemiker says they may be), and the wedges were driven in first, then any possible further effect by driving in the ring would loosen the wedges. The model which is produced as representing Yemiker's disclosure and his August, 1913, application shows precisely this result, and when the wedges are tightened down the ring does not bind upon the inner side of the groove. This result might be charged either to inadvertence or intention in the proportioning of the parts of the model; but we are satisfied that it is inherent in the form of the structure, unless there is an accuracy in construction and proportion between the various parts and the circumferential and radial tendencies which would be impracticable in structures of this class.

Nesbitt's testimony is confirmatory. He says that what Yemiker showed him had the wedge-carrying ring, but the ring did not fit tight in the groove. Yemiker does not dispute this in his testimony. He told Porter the purpose of the ring was to give the wedges strength and position them. In his contemporary letter to his patent attorney he says that the ring acts as a protector to prevent the wedges from falling out, and that the core with the ring alone, and no wedges, would not be very durable. True, this same letter contains a sketch indicating a taper ring, and he says the taper ring will draw the sections inwardly. But this letter was not written until after he had seen the finished Nesbitt ring. He does not claim there was any taper on the sketch he made for Nesbitt, and this sketch sent to the attorney and the other ones that are said to be earlier all indicate at most that Yemiker had only an idea—and that an erroneous one—as to what would be the joint action of his wedges and a taper ring.[1]

We are thus led by what is nearly, if not quite, a demonstration to the conclusion that the straight ring which Yemiker explained to Nesbitt did not contain the essence of the patented invention, but was only the loose ring of the old art, held in position by wedges projecting from its bottom through the bottom of the ring, instead of by bolts and nuts. This conclusion is destructive of the theory upon which the defense has been made, and upon which the decree below rests.

In the district court it was argued that the Yemiker application of August, 1913, merely embodied

[1] We note that on the sketch said to have been made for Steubgen on September 3, 1912, the particular figure thought to show a ring without wedges is completely satisfied by regarding it as a vertical cross-section through a wedge on its circumferential taper, showing how it passed out of the cross-section plane. The figure would then be applicable to the device of the August application, which Yemiker was about then engaging Steubgen to make for him.

the disclosure of January, 1913, and described and claimed the straight-sided locking ring which would thus anticipate any claim thereto by Nesbitt. We do not so understand this application, which went to issue in 1914. It does not picture or describe any taper ring, thereby inferring a self-retaining function, nor does it indicate any self-retaining or locking capacity, save by the casual statement that the ring is "forced into" the groove—an ambiguous statement, but in its pertinent aspect a substantial impossibility as above pointed out. It makes no claim to any locking ring, as such, but only to the wedges and the ring carrying them. Every claim is to the combination.

There is little reason to think that Yemiker even believed himself to be the inventor of the self-retaining locking ring, efficient without wedges, bolts, or contractile means. Though now reaching back to June, 1912, he filed an application in August, 1912, which did not disclose it. In October, 1912, he had a mold built, which did not disclose it. Learning in January, 1913, that Nesbitt was claiming it, he complained to his attorney that Nesbitt had taken his invention, but leaving off the wedges, and thought it would not be successful. The manufacturers of his old device, on a royalty, discontinued and began to make Nesbitt's. Yemiker made no complaint, except informally to a shop foreman. Then, in April, 1913, he applied for patent on another form quite distinct. In August, 1913, he filed his application, above referred to, and still made no claim to the ring alone, though it was being sold for Nesbitt in large numbers. Never until January, 1915, did he make any such claim (by the application which went into interference). This claim was too belated to be accepted, unless upon convincing proof, and the proof is not of that character.

Claim 5, sued upon, contains the express limitation to a wedge ring, and is not infringed. In the bill of complaint, claim 6, which does not seem to carry the limitation, was also sued upon, and there may have been confusion between 5 and 6. However, appellants' brief does not now ask anything under claim 6. Claim 9, also sued upon, we should be inclined to construe as of the broader class; but it formed count 2 of the interference, it was held by the Court of Appeals of the District of Columbia to be limited to the wedge ring, the interference as to this count was decided on that theory, and it is apparently quite immaterial to plaintiff in this case whether claim 9 is or is not infringed. Neither injunction nor accounting can be thereby affected, since, if it is narrow, the claims upon which injunction and accounting will rest are broader.

As to claims 5 and 9, the decree is affirmed; as to claims 1 and 2, it is reversed, with directions to enter the usual decree for an injunction and accounting.

On petition for rehearing.

PER CURIAM:

[2] Upon an application for rehearing it is urged that one who is beaten in an interference upon a specific issue, may not afterwards, by amendment or reissue, obtain broader claims which dominate the interference issue and thus in a measure reverse the result (*in re Curtiss*, 46 App. D. C. 183; 238 O. G., 650); and it is assumed that this is what Nesbitt did and that in the opinion we have approved this practice. Not so. Nesbitt was the successful party in the interference, and obviously the rule does not apply to that party. The concession and assumption in the interference that Yemiker had disclosed a straight-sided ring was not the thing adjudicated; it was a reason given for a distinction that was specifically important; and we have been convinced, in so far as the reasoning assumed that Yemiker was entitled to a patent on the straight ring, it was both immaterial and erroneous. He was not misled, to his prejudice. This reasoning first became definite with the Examiner's decision in February, 1917. Yemiker could not then apply for this broader claim through a reissue of the patent of his August, 1913, application, issued in August, 1914, more than two years before; and he could not apply for it as for something not disclosed in the August, 1913, application, because it had been in public use since early in 1913. No doubt there are cases where the conduct of a party and his positions taken in an interference litigation may estop him, beyond the operation of any technical rules and merely upon equitable principles; but this is not a case for permitting an estoppel to defeat a patent granted to the true inventor. We have concluded, as the opinion shows, that the substantial advance here made was the conception of an independent locking ring efficient by itself and without bolts or wedges, that this involved inventive merit, that Nesbitt's specifications and drawings permitted claims of that breadth, and that claims 1 and 2 should be so construed. Yemiker had full opportunity to make such a claim in the two applications which he filed, including the one in interference, and he did not. The record is wholly unconvincing that he ever had that conception until long after Nesbitt's application.

The application is denied.

ADJUDICATED PATENTS.

(C. C. A. Ill.) The O'Connor patent, No. 984,236, for improvements in roller side bearings for railway cars, *Held* valid and infringed. *Edwin S. Woods & Co.* v. *Miner*, 292 Fed. Rep. 589.

(C. C. A. Calif.) The Schumacher patent, No. 1,176,322, for process for making plaster board, *Held* valid and infringed. *Schumacher* v. *Buttonlath Mfg. Co.*, 292 Fed. Rep. 522.

(C. C. A. Calif.) The Schumacher patent, No. 1,176,860, for an improved process in making plaster board, *Held* not infringed. *Schumacher* v. *Buttonlath Mfg. Co.*, 292 Fed. Rep. 522.

(C. C. A. Calif.) The Schumacher patents, Nos. 1,197,533, 1,259,049, and 1,286,801, for apparatus for making plaster board, *Held* infringed. *Schumacher* v. *Buttonlath Mfg. Co.*, 292 Fed. Rep. 522.

(C. C. A. N. J.) The Abbott patent, No. 1,333,363, for compound for penetrating interior corrosion, *Held* to disclose invention, and claim 2 *Held* infringed. *Polygon Products Corporation* v. *Kant-Rust Products Corporation*, 292 Fed. Rep. 569.

(C. C. A. Ill.) The Hopkins patent, No. 1,336,904, for adding machine, *Held* not infringed. *Burroughs Adding Mach. Co.* v. *Rockford Milling Mach. Co.*, 292 Fed. Rep. 550.

(C. C. A. N. Y.) The Ruppel patent, No. 1,336,924, for expansion joint, claims 1 and 2 *Held* not infringed. *Alberger Gas Engine Co.* v. *Ross Heater & Mfg. Co.*, 292 Fed. Rep. 598.

(D. C. Ohio.) The Pancoast and Grotenhuis patent, No. 1,374,893, for an automobile bumper, claims 6–11 *Held* invalid. *American Chain Co.* v. *Cox Brass Mfg. Co.*, 292 Fed. Rep. 624.

(C. C. A. N. Y.) The Weiss patent, No. 1,411,231, for vulcanization accelerator, *Held* invalid. *Dovan Chemical Corporation* v. *National Aniline & Chemical Co.*, 292 Fed. Rep. 555.

(C. C. A. Wis.) The Perkins reissue patent, No. 13,436, for a wood and fiber glue, claims 28, 30, and 31 *Held* not infringed. *Perkins Glue Co.* v. *Gould Mfg. Co.*, 292 Fed. Rep. 596.

(C. C. A. N. Y.) The Bogart reissue patent, No. 14,906, for expansion joint, claims 1, 2, 4, 5, and 6 *Held* valid and infringed. *Alberger Gas Engine Co.* v. *Ross Heater & Mfg. Co.*, 292 Fed. Rep. 598.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

793,249, L. M. Todd, Printing apparatus; 1,341,076, C. H. Sampson, Check-printing machine, decree in favor of plaintiff, sustaining patent, adjudging infringement, and granting injunction restraining defendant, D. C., S. D. N. Y., *Todd Protectograph Co.* v. *New Era Mfg. Co. et al.*

882,136, F. C. Altmann, Latches for vehicle doors, suit filed Oct. 8, 1923, D. C., E. D. Mich. (S. D.), Doc. 615, *The English & Mersick Co.* v. *Cadillac Motor Car Co.*

958,478, W. E. Davey, Process of reenforcing trees, suit filed Oct. 1, 1923, D. C., N. D. Ohio (E. D.), Doc. 967, *The Davey Tree Expert Co.* v. *C. F. Irish*. Same, suit filed Nov. 5, 1923, D. C. Mass., Doc. E 1870, *The Davey Tree Expert Co.* v. *L. H. Koomy*.

1,077,866, H. P. Ball, Electrically-heated cooking device, suit filed Oct. 2, 1923, D. C. Conn., Doc. 1678, *General Electric Co. et al.* v. *Landers, Frary & Clark*.

1,163,629. (See 1,168,820.)

1,168,820, W. H. Miles, Vulcanizing apparatus for repairing rubber tires and other articles; 1,163,629, A. B. Low, Portable vulcanizing package, suit filed Oct. 26, 1923, D. C., N. D. Ohio (E. D.), Doc. 002, *A. B. Low et al.* (*C. A. Shaler Co.*) v. *G. E. Bailey Mfg. Co.*

1,276,723, G. Collis, Poultry coops, suit filed Oct. 1, 1923, D. C. Iowa, Doc. E 4053, *The Collis Co.* v. *The Ball-Stewart Equipment Co. et al.*

1,341,076. (See 793,249.)

1,346,402, Re. 15,433, G. Glaudel, Windshield attachment, suit filed Aug. 9, 1923, D. C., S. D. Calif., Doc. H 6–B, *G. Glaudel et al.* v. *O. W. Hiath* (*Simplex Mfg. Co.*).

1,354,627, Singman & Simon, Paper wreath frame, suit filed Oct. 4, 1923, D. C., S. D. N. Y., Doc. E 27/149, *A. Singman et al* v. *W. Gluckin et al.*

1,370,274. (See 1,460,939.)

1,373,664, Re. 15,220, D. G. Lorraine, Gas, oil, and sand separator, suit filed Jan. 9, 1922, D. C., S. D. Calif., Doc. F–80, *D. G. Lorraine et al.* v. *F. M. Townsend et al.* (*Trumble Gas Trap Co.*).

1,419,926, M. L. Heineke, Thrashing-machine feeders, suit filed Oct. 25, 1923, D. C. Ill., Doc. 254, *Heineke & Co.* v. *Hart Grain Weigher Co.*

1,421,113. (See 1,452,716.)

1,445,754, H. J. Casey, Road tractors, suit filed July 2, 1923, D. C., S. D. Calif., Doc. G 117, *H. J. Carey et al.* v. *H. C. Bennett et al.*

1,452,716, D. M. Watters, Power lift for groundworking implements; 1,421,113, same, Disk cultivator, suit filed Oct. 31, 1923, D. C., N. D. Calif., Doc. 1131, *Killefer Mfg. Co.* v. *Knapp Plow Co.*

1,460,939, G. A. Boyer, Grease retainer for journal bearings; 1,370,274, same, Splash oiling system, suit filed Aug. 27, 1923, D. C., S. D. Calif., Doc. H–12, *M. I. Heron et al.* v. *W. O. Thompson et al.*

Des. 60,878, Pardee, Dewire & Suporter, Radiator cap, suit filed July 11, 1923, D. C., S. D. Calif., Doc. G 120, *Miller & Pardee, Inc.*, v. *J. H. Fletcher* (*Best Motor Meter Lock Co.*).

Re. 15,220. (See 1,373,664.)

Re. 15,433. (See 1,346,402.)

Re. 15,615, E. G. Carr, Subgrade scraper, suit filed Oct. 4, 1923, D. C. Ill., Doc. 303, *The Lakewood Engineering Co. et al.* v. *The Hug Co. et al.*

T. M. 117,353, Northam Warren Corp., Cuticle removers, nail white, nail bleach, etc., suit filed Sept. 4, 1923, D. C., N. D. Ill., Doc. 3733, *Northam Warren Corp.* v. *Universal Cosmetic Co.*

T. M. 144,149, The Timken Roller Bearing Co., Roller bearings and parts, suit filed Sept. 25, 1923, D. C., N. D. Ill., Doc. 3749, *The Timken Roller Bearing Co.* v. *Leterstone Sales Co.*

TRADE-MARKS CANCELED.

28,448. Canned fruits, vegetables, mackerel, and lobster, extracts, lye, cheese, baking-powder, olives, cigars, starch, dried fruits, vinegar, and birdseed. Reed, Walsh & Lange, Chicago, Ill. Registered June 23, 1896. Canceled September 18, 1923.

56,850. Gluten feed and dried distillery slops. Julius Marcus, New York, N. Y. Registered October 23, 1906. Canceled October 12, 1923.

125,771. Hair nets. Augustus A. West, Philadelphia, Pa., assignor to David L. Short, Philadelphia, Pa. Registered June 10, 1919. Canceled July 31, 1923.

134,388. Marble and stone. C. D. Jackson & Co. Inc., New York, N. Y. Registered August 31, 1920. Canceled August 6, 1923.

134,389. Marble and stone. C. D. Jackson & Co. Inc., New York, N. Y. Registered August 31, 1920. Canceled August 6, 1923.

134,390. Marble and Stone. C. D. Jackson & Co., Inc., New York, N. Y. Registered August 31, 1920. Canceled August 6, 1923.

134,392. Marble and stone. C. D. Jackson & Co. Inc., New York, N. Y. Registered August 31, 1920. Canceled August 6, 1923.

134,394. Marble and stone. C. D. Jackson & Co. Inc., New York, N. Y. Registered August 31, 1920. Canceled August 6, 1923.

134,395. Marble and stone. C. D. Jackson & Co. Inc., New York, N. Y. Registered August 31, 1920. Canceled August 6, 1923.

134,396. Marble and stone. C. D. Jackson & Co. Inc., New York, N. Y. Registered August 31, 1920. Canceled August 6, 1923.

134,397. Marble and stone. C. D. Jackson & Co. Inc., New York, N. Y. Registered August 31, 1920. Canceled August 6, 1923.

136,836. Marble and stone. C. D. Jackson & Co. Inc., New York, N. Y. Registered November 9, 1920. Canceled August 6, 1923.

136,837. Marble and stone. C. D. Jackson & Co. Inc., New York, N. Y. Registered November 9, 1920. Canceled August 6, 1923.

139,818. Candy, peanuts in their natural state, candied pop corn. Hoover Candy Co., Provo, Utah. Registered February 22, 1921. Canceled September 22, 1923.

142,387. Milk chocolate. Peter Cailler Kohler Swiss Chocolates Co., Inc., New York, N. Y. Registered May 10, 1921. Canceled October 11, 1923.

143,260. Cocoa and chocolate. Peter Cailler Kohler Swiss Chocolates Co. Inc., Fulton and New York, N. Y. Registered May 24, 1921. Canceled October 11, 1923.

144,141. Milk chocolate and cocoa. Peter Cailler Kohler Swiss Chocolates Co., Inc., New York, N. Y. Registered June 21, 1921. Canceled October 11, 1923.

145,212. A monthly publication. Earl R. Allured, Chicago, Ill. Registered July 26, 1921. Canceled October 27, 1923.

145,438. Spark plugs. William L. Phillips, Brockton, Mass. Registered August 2, 1921. Canceled September 26, 1923.

148,975. Monthly magazines. Earl R. Allured, Chicago, Ill. Registered December 6, 1921. Canceled October 27, 1923.

148,976. Magazines published monthly. Earl R. Allured, Chicago, Ill. Registered December 6, 1921. Canceled October 27, 1923.

149,788. Milk chocolate and cocoa. Peter Cailler Kohler Swiss Chocolates Co., Inc., New York, N. Y. Registered December 20, 1921. Canceled October 11, 1923.

152,481. Milk chocolate and cocoa. Peter Cailler Kohler Swiss Chocolates Co., Inc., New York, N. Y. Registered February 28, 1922. Canceled October 11, 1923.

153,613. Chocolate coating and cocoa. Peter Cailler Kohler Swiss Chocolates Co., Inc., New York, N. Y. Registered March 21, 1922. Canceled October 11, 1923.

156,955. Surfman's Cuttyhunk fishing lines. Cortland Line Co. Inc., Cortland, N. Y. Registered July 18, 1922. Canceled November 7, 1923.

158,484. Rouge, cold cream, lip sticks, toilet water, talcum powder, and perfume. Lournay, Inc., New York, N. Y. Registered September 5, 1922. Canceled October 12, 1923.

159,886. Basic materials having bauxite foundation used in the manufacture of refractory bricks and emery wheels, but not emery wheels themselves. Anne Veronique Gowen-Lecesne, Paris, France. Registered October 10, 1922. Canceled November 27, 1923.

159,955. Self-rising flour. Model Mill Company, Kenton, Tenn. Registered October 10, 1922. Canceled November 27, 1923.

161,380. Certain named clothing. The Standard Knitting Mills, Los Angeles, Calif. Registered November 7, 1922. Canceled August 11, 1923.

161,677. Heaters, coolers, condensers, and heat interchangers. Alberger Heater Company, Buffalo, N. Y. Registered November 14, 1922. Canceled September 22, 1923.

163,234. Hall's cherry expectorant compound for treatment of coughs, colds, and bronchial troubles. Key Chemical Co., Washington, D. C. Registered January 2, 1923. Canceled November 14, 1923.

163,455. Elastic paints for metal and composition roofs. James W. Ware, doing business as Ware Paint Company, Atlanta, Ga. Registered January 9, 1923. Canceled September 18, 1923.

165,677. Skin lotion. Key Chemical Co., Washington, D. C. Registered March 20, 1923. Canceled November 14, 1923.

165,678. Catarrh cream, nasal spray, and a preparation for removing corns. Key Chemical Co., Washington, D. C. Registered March 20, 1923. Canceled November 14, 1923.

165,679. Preparation for treatment of headache, neuralgia, nervousness, insomnia, travelers' headaches. Key Chemical Co., Washington, D. C. Registered March 20, 1923. Canceled November 14, 1923.

166,293. Women's leather shoes, canvas shoes, leather shoes with cloth tops, and white canvas shoes with leather trimmings. C. S. Gibbon Co., Philadelphia, Pa. Registered March 27, 1923. Canceled September 26, 1923.

166,742. Nonalcoholic maltless beverages sold as soft drinks. Fried & Gotthelf, Vicksburg, Miss. Registered April 10, 1923. Canceled September 26, 1923.

166,774. Candy. The W. R. Montague Company, La Crosse, Wis. Registered April 10, 1923. Canceled November 27, 1923.

167,997. Cardboard and fine correspondence paper and envelopes. Allan & Gray, New York, N. Y. Registered May 8, 1923. Canceled September 20, 1923.

167,999. A vegetable and animal oil soap. The Urbane E. Rogers Company, Dallas, Tex. Registered May 8, 1923. Canceled November 27, 1923.

170,311. Cotton fire hose. Wm. & Chas. Beck, Inc., Lawrence, Mass. Registered July 10, 1923. Canceled October 27, 1923.

171,067. Bread. James Butler Inc., New York, N. Y. Registered July 31, 1923. Canceled September 20, 1923.

Interference Notices.

U. S. PATENT OFFICE, *Washington, Dec. 4, 1923.*

Alonzo Frank Richardson, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Arthur O. Klauzer, Second National Bank, Toledo, Ohio, for registration of a trade-mark and trade-mark registered June 16, 1903, No. 40,602, to Alonzo Frank Richardson, 526 West Broadway, New York, N. Y., and a notice of such declaration sent by registered mail to said Richardson at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Richardson, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Dec. 11, 1923.*

Bliss, Painter & Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between Johnson & Company, 100 South Minnesota Avenue, St. Peter, Minn., for registration of a trade-mark and trade-mark registered September 1, 1903, No. 41,018, to Bliss, Painter & Co., 108 and 110 Third Street North, Minneapolis, Minn., and a notice of such declaration sent by registered mail to said Bliss, Painter & Co. at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Bliss, Painter & Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This interference will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

U. S. PATENT OFFICE, *Washington, Dec. 11, 1923.*

Sprayene Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between Richmond Dairy Company, 314–322 North Jefferson Street, Richmond, Va., for registration of a trade-mark and trade-mark registered December 22, 1914, No. 101,542, to Sprayene Company, Woodstown, N. J., and a notice of such declaration sent by registered mail to said Sprayene Company at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Sprayene Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 25, 1923.

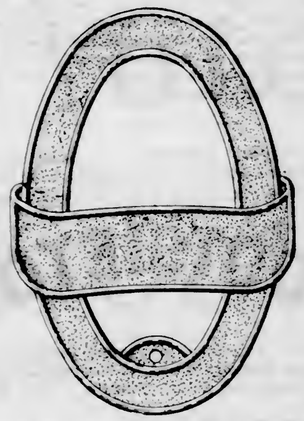
[VOL. 317. No. 4.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 115,583. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) GREAT WESTERN MANUFACTURING COMPANY, Laporte, Ind. Filed Feb. 1, 1919.



Particular description of goods.—Bicycles.
Claims use since on or about May 4, 1894.

Ser. No. 118,608. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) OMAHA PAINT AND GLASS COMPANY, Omaha, Nebr. Filed Apr. 21, 1919.

White Star

Particular description of goods.—House Paints, Barn Paints, Bridge Paints, Roof Paints, Graphite Black Paint, House-Painters' Japan Drier, Union Japan Drier, White Japan Drier, Orange Shellac, White Shellac, Oil Shellac, Turpentine Shellac, Egyptalac, Fresco Wall Size, Bronze Liquid, Paste Filler, Liquid Wood Filler, Enamel Undercoater, Enamel Interior Gloss, Columbia Hard Oil, Light First-Coater Varnish, Asphaltum Varnish, Carbon-Black Varnish, Linoleum-Finish Varnish, Exterior Spar Varnish, Exterior Finish Varnish, White Dammar Varnish, Floor and Interior Varnish, Inside Coach Varnish, Elastic Interior Varnish, Furniture Varnish, Cabinet Rubbing Varnish, and Inside Spar Varnish.
Claims use since 1898 for liquid wood filler; since 1900 for bridge and barn paints; since 1908 for varnishes; since 1912 for the other articles enumerated.

Ser. No. 141,682. (CLASS 37. PAPER AND STATIONERY.) THE MASTER REPORTING CO. INC., Indianapolis, Ind. Filed Dec. 30, 1920.

MASTER REPORTING SERVICE

Particular description of goods.—Covers or Binders.
Claims use since Apr. 15, 1917.

Ser. No. 146,656. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PURITAN DRUG MFG. CO., Columbus, Ohio. Filed Apr. 23, 1921.

Aster

Particular description of goods.—Bay Leaves for Seasoning, Rubbed Sage for Seasoning.
Claims use since December, 1913.

Ser. No. 149,747. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) GLOBE PHONE MANUFACTURING COMPANY, Reading, Mass. Filed June 28, 1921.

VACTUPHONE

Particular description of goods.—Telephonic Apparatus for Aiding the Hearing for Use in Telephone Circuits and Parts Thereof.
Claims use since Apr. 12. 1921.

Ser. No. 152,744. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRASIER, THORNTON & CO., LIMITED, Cookshire, Quebec, Canada. Filed Sept. 9, 1921.

OLIVEINE

Particular description of goods.—Pills for the Treatment of Constipation, Indigestion, Heartburn, Sick Headache, Bilious Headache, Throbbing Headache, Biliousness, Nausea, Jaundice, Rheumatism, Neuralgia, Kidney Trouble, Liver Complaint, Catarrh of Stomach, Freckles, Pimples, Liver Spots, Backache, Bearing-Down Feeling, Dizziness, Nervous Prostration, Irregularities, Periodical Pains, and an Ointment for the Treatment of Blind, Bleeding, and Intruding Piles, Eczema, Salt Rheum, and Emulsion for the Treatment of Nervous Debility, Sleeplessness, Loss of Voice, Chronic Bronchitis, Pulmonary Affections, Nervous Dyspepsia, Palpitation of the Heart, Asthma, Diarrhea, Chlorosis Prostration Following Fevers, Diphtheria, Tonsilitis, Paralysis, Phthisis, Membranous Croup, Hoarseness, Debility at Change of Life, Scrofula, and Blood Disorders.
Claims use since April, 1909.

Ser. No. 154,280. (CLASS 39. CLOTHING.) MOHAWK GLOVE CORPORATION, New York, N. Y. Filed Oct. 18, 1921.

Mohawk



Particular description of goods.—Ladies' Silk and Cotton Gloves, Silk Underwear and Silk Hosiery.
Claims use since 1910.

Ser. No. 157,042. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NEWBEGIN FIRE APPLIANCE COMPANY, Los Angeles, Calif. Filed Dec. 22, 1921.



The inner concentric circle of the mark, the arrow within the same, the arrows between the concentric circles, and the crosses and floral figures between the concentric circles are all displayed in red.
Particular description of goods.—Fire Extinguishers.
Claims use since July 1, 1920.

Ser. No. 158,974. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) T. S. DOWST, doing business as Dowst Bros. Co., Chicago, Ill. Filed Feb. 7, 1922.

TOOTSIETOY

Particular description of goods.—Miniature Living-Room Suites, Bedroom Suites, Dining-Room Sets, Rockers, Chairs, Davenports, Desks, Dressers, Tables, Beds, and Tea Carts.
Claims use since Apr. 20, 1921.

Ser. No. 160,008. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE GARLOCK PACKING COMPANY, Palmyra, N. Y. Filed Mar. 1, 1922.



Particular description of goods.—Packing and Packing Material Made of Asbestos, Rubber, Cotton, Flax, Copper, Lead, Iron, Babbitt, and Various Combinations Thereof—Namely, Those Known as Steam, High-Pressure Steam, Hot-Water, Hydraulic, Acid, Ammonia, and Air Packings; and Bushings of Rubber and Iron; Gaskets of Rubber, Asbestos, Cotton, Copper, or Lead; Hose and Flexible Conduits of Rubber, Cotton, or Metal, Excluding Metal Tubing; Diaphragms of Rubber or Cotton; Twisted, Braided, and Woven Asbestos; Pump Valves and Valve Parts and Facings of Rubber and Metal; Rubber Bumpers, Belting and Belt Lacing of Rubber, Cotton, Leather, or Cowhide.
Claims use since July 1, 1890, for the name "Garlock" within a diamond; since Feb. 15, 1901, for the combined mark.

Ser. No. 160,711. (CLASS 43. THREAD AND YARN.) THE LINEN THREAD COMPANY, also doing business as The Finlayson Flax Spinning Co., Boston, Mass. Filed Mar. 15, 1922. Under ten-year proviso.

Devonshire

Particular description of goods.—Linen Thread.
Claims use since November, 1880.

Ser. No. 161,594. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) TOCH BROTHERS, New York, N. Y. Filed Mar. 31, 1922.

Auto

Koat

Particular description of goods.—Ready-Mixed Paints, Varnishes, and Enamel Paints.
Claims use since about November, 1911.

Ser. No. 162,194. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE OHIO INSTRUMENT MFG. CO., Cleveland, Ohio. Filed Apr. 12, 1922.

FUGO

Particular description of goods.—Fire Extinguishers and Refill Units for Said Extinguishers.
Claims use since on or about July 1, 1921.

Ser. No. 162,865. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE CLEVELAND DENTAL MANUFACTURING COMPANY, Cleveland, Ohio. Filed Apr. 24, 1922.

Ossisector

Particular description of goods.—Dental Cutting Tools for Cutting Bone and Tissue.
Claims use since about October, 1919.

Ser. No. 163,525. (CLASS 12. CONSTRUCTION MATERIALS.) THE KINNEAR MANUFACTURING COMPANY, Columbus, Ohio. Filed May 8, 1922.

KINNEAR

Particular description of goods.—Metallic Fire-Resisting Shutters, Curtains, and Doors.
Claims use since January, 1895.

Ser. No. 166,535. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE PHOTOPLATING COMPANY, Minneapolis, Minn. Filed July 6, 1922.

PHOTOPLATING

Particular description of goods.—Designs and Photographs on Glass and Metal as Wall Ornaments and Decorative Ornaments Supported by Easels.
Claims use since about July 1, 1917.

Ser. No. 167,601. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CREAMERY PACKAGE MFG. COMPANY, Chicago, Ill. Filed July 31, 1922.



The lining of drawing expresses shading. No claim is made to the use of the words "Manufacturers," "Inventors," and "Dealers" apart from the mark shown.
Particular description of goods.—Dairy, Creamery, Milk-Plant, Cheese-Factory, and Ice-Cream-Factory Machinery and Appliances, Comprising Milk Vats, Pasteurizers, Milk Heaters, Milk Holders, Milk Coolers, Milk Pumps, Milk Concentrators, Homogenizers, Sanitary Valves and Fittings for Said Machinery, Bottle Washers, Bottle Sterilizers, Bottle Fillers, Bottle Cappers, Can Washers, Can Sterilizers, Can Driers, Cream Ripeners, Cream Starters, Cream Savers, Churns, Butterworkers, Butter Printers, Cheese Vats, Cheese Presses, Curd Mills, Paraffiners, Ice-Cream Mixers, Batch Tanks, Brick Cutters, Packaging Machines, Mold Washers and Sterilizers, and Ice Breakers.
Claims use since about May 1, 1908.

Ser. No. 167,602. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CREAMERY PACKAGE MFG. COMPANY, Chicago, Ill. Filed July 31, 1922.



Particular description of goods.—Dairy, Creamery, Milk-Plant, Cheese-Factory, and Ice-Cream-Factory Machinery and Appliances, Comprising Milk Vats, Pasteurizers, Milk Heaters, Milk Holders, Milk Coolers, Milk Pumps, Milk Concentrators, Homogenizers, Sanitary Valves and Fittings for Said Machinery, Bottle Washers, Bottle Sterilizers, Bottle Fillers, Bottle Cappers, Can Washers, Can Sterilizers, Can Driers, Cream Ripeners, Cream Starters, Cream Savers, Churns, Butterworkers, Butter Printers, Cheese Vats, Cheese Presses, Curd Mills, Paraffiners, Ice-Cream Mixers, Batch Tanks, Brick Cutters, Packaging Machines, Mold Washers and Sterilizers, and Ice Breakers.

Claims use since about May 1, 1908.

Ser. No. 167,603. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CREAMERY PACKAGE MFG. COMPANY, Chicago, Ill. Filed July 31, 1922.



The lining of drawing expresses shading.

Particular description of goods.—Dairy, Creamery, Milk-Plant, Cheese-Factory, and Ice-Cream-Factory Machinery and Appliances, Comprising Milk Vats, Pasteurizers, Milk Heaters, Milk Holders, Milk Coolers, Milk Pumps, Milk Concentrators, Homogenizers, Sanitary Valves and Fittings for Said Machinery, Bottle Washers, Bottle Sterilizers, Bottle Fillers, Bottle Cappers, Can Washers, Can Sterilizers, Can Driers, Cream Ripeners, Cream Starters, Cream Savers, Churns, Butterworkers, Butter Printers, Cheese Vats, Cheese Presses, Curd Mills, Paraffiners, Ice-Cream Mixers, Batch Tanks, Brick Cutters, Packaging Machines, Mold Washers and Sterilizers, and Ice Breakers.

Claims use since about May 1, 1908.

Ser. No. 168,254. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) COLE MANUFACTURING COMPANY, Chicago, Ill. Filed Aug. 15, 1922. Under ten-year proviso.

COLE'S

Particular description of goods.—Coal, Wood, and Gas Furnaces, Stoves, Ranges, and Heaters.

Claims use since 1893.

Ser. No. 168,507. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SAMUEL E. BARGREEN, doing business as Imperial Tea Co., Everett, Wash. Filed Aug. 21, 1922.

IMPERIAL ELECTRIC SUDS

Particular description of goods.—Laundry Powder.

Claims use since Sept. 1, 1900.

Ser. No. 168,905. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LOUIS SCHWAB, doing business as Stevens & Co., New York, N. Y. Filed Aug. 30, 1922.



No claim is made to the words "New York" aside from the mark shown.

Particular description of goods.—Automotive Mechanics' Tools for Holding, Drilling, Reaming, Fitting, Truing, Testing, Bushing, Babbitting, Guiding, Readjusting, Repairing, and Replacing the Parts of Automotive and Cycle Vehicles and Their Accessories, Particularly Drills, Reamers, Refacers, Cutters and Grinders, Aligners, Part Holders, Taps and Dies, Punchers, Jigs, Scrapers, Files, Extractors and Inserters for Bushings, Gears, and the Like, Swages, Expanders, Bearing-Replacing Appliances, Spring Lifters, Vises, Clamps, Grippers, Compressors, and Lubricators.

Claims use since Jan. 10, 1918.

Ser. No. 169,017. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) VESS JONES, doing business as The Whiz Co., New York, N. Y. Filed Sept. 2, 1922.

WHIZ

Particular description of goods.—Nonalcoholic, Malt-less Beverages Sold as Soft Drinks and Sirups Therefor.

Claims use since Aug. 23, 1921.

Ser. No. 169,133. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) KIGGINS & TOOKER CO., New York, N. Y. Filed Sept. 6, 1922.

UNIVERSAL

Particular description of goods.—Golf-Score Holders.

Claims use since June, 1922.

Ser. No. 169,164. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE FARISH COMPANY, Greenwich, Conn., and New York, N. Y. Filed Sept. 7, 1922.



Particular description of goods.—Cotton Goods, Finished and Unfinished Denims, Checkings, Ginghams, Sheetings, Bedspreads, Bedquilts, Gray Goods, and Blankets.

Claims use since Jan. 1, 1920.

Ser. No. 170,402. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PUFFER-HUBBARD MANUFACTURING COMPANY, Minneapolis, Minn. Filed Oct. 6, 1922

SUMMER TOBOGGAN

No claim is made for the word "Toboggan" except as associated with the word "Summer."

Particular description of goods.—Child's Toy Wagon.

Claims use since Feb. 15, 1922.

317 O. G.—54

Ser. No. 170,638. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) GOLDENBERG'S, Washington, D. C. Filed Oct. 12, 1922.

SMART SET

Particular description of goods.—Suitcases, Trunks, Traveling Bags, Hand Bags, Leather Purses, Vanity Books, Leather or Textile Beauty Cases, Leather Hand Bags, Beaded Hand Bags, Children's Hand Bags, Change Purses, Swagger Bags, Wallets, Cardcases, Bill Folds, Leather Wristlets, Leather Music Cases, Music Rolls, Brief Cases, Leather Traveling Sets, and Boston Bags.

Claims use since Mar. 1, 1922.

Ser. No. 170,644. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) GOLDENBERG'S, Washington, D. C. Filed Oct. 12, 1922.

SMART SET

Particular description of goods.—White and Decorated Earthenware, China and Porcelain Plates, Table and Kitchen Ware Made of Crockery, and Porcelain Vases.

Claims use since Mar. 1, 1922.

Ser. No. 170,882. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN HENRY HARGREAVES, Nashua, N. H. Filed Oct. 18, 1922.

COUNTRY CLUB

Particular description of goods.—Mayonnaise Dressing, Salad Dressing, French Dressing, and Russian Dressing.

Claims use since Aug. 1, 1922.

Ser. No. 171,165. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed Oct. 25, 1922.

ARBORLUX

Particular description of goods.—Decorative Electric-Light Outfits for Christmas Trees and the Like.

Claims use since April, 1920.

Ser. No. 172,131. (CLASS 39. CLOTHING.) DAVID TENENBAUM, doing business as The Aborn Shirt Mfg. Co., New York, N. Y. Filed Nov. 16, 1922.



No claim is made to the word "Shirt" and "Trade Mark" apart from the mark shown in the drawing.

Particular description of goods.—Dress Shirts.

Claims use since 1917.

Ser. No. 172,526. (CLASS 39. CLOTHING.) EGAN-DRYFOOS DISTRIBUTING CO., San Francisco, Calif. Filed Nov. 25, 1922.



Particular description of goods.—Shoes.
Claims use since Nov. 15, 1922.

Ser. No. 172,921. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE WAZU NOVELTY COMPANY, New York, N. Y. Filed Dec. 4, 1922.



Particular description of goods.—Dolls, Children's Cut-Out Picture Drawings, Puzzles, Children's Games Played with Blocks, and Manikins Used as Dolls.
Claims use since Nov. 4, 1922.

Ser. No. 174,203. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DEL MONTE-HICKEY, New York, N. Y. Filed Jan. 5, 1923.



The lines shown in the drawing indicate merely shading and not any particular color scheme.
Particular description of goods.—Piece Goods Made of Camel's Hair.
Claims use since Dec. 23, 1922.

Ser. No. 174,563. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDERER BROS., Chicago, Ill. Filed Jan. 13, 1923.



No claim is made for the word "Bar" except as part of the expression "Gold Bar," and no claim whatever is made to the pictorial representation of a bar, "Gold Bar" (trade-mark).
Particular description of goods.—Candies.
Claims use since Sept. 15, 1922.

Ser. No. 175,059. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich. Filed Jan. 25, 1923.



The lines in the drawing indicating the color red.
Particular description of goods.—Cereal Breakfast Foods, Cereal Flakes, Cooked Bran, Nut Butter and Peanut Butter, Wheat Biscuit, Gluten Biscuit, Bran Biscuit, Graham Crackers, Breakfast Toast, Zwelback, Corn Sugar, Dextrin Sugar, Gelatin, Buttermilk Tablets, Food Flavors, Malted Nuts, Marmalade, Vegetable Meat, and Chocolate Candy.
Claims use since Dec. 22, 1922.

Ser. No. 175,106. (CLASS 39. CLOTHING.) THE RITE FORM CORSET CO., INC., New York, N. Y. Filed Jan. 25, 1923.

WUNPUL

Particular description of goods.—Corsets.
Claims use since Jan. 2, 1923.

Ser. No. 175,175. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) M. S. WRIGHT COMPANY, Worcester, Mass. Filed Jan. 26, 1923.

Vac

Particular description of goods.—Mop or Wiping Member for Attachment to a Vacuum-Cleaner Nozzle.
Claims use since Sept. 26, 1922.

Ser. No. 175,176. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) M. S. WRIGHT COMPANY, Worcester, Mass. Filed Jan. 26, 1923.

Vac-Mop

No claim is made to the word "Mop" apart from the mark illustrated on the drawing.
Particular description of goods.—Mop or Wiping Member for Attachment to a Vacuum-Cleaner Nozzle.
Claims use since Sept. 26, 1922.

Ser. No. 175,267. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PENNSYLVANIA SILVERWARE COMPANY, Kane Borough, Pa. Filed Jan. 29, 1923.



Particular description of goods.—Soda-Fountain Cooling and Dispensing Outfits.
Claims use since on or about Nov. 15, 1922.

Ser. No. 176,345. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ARTHUR F. HUEBNER, Bay City, Mich. Filed Feb. 20, 1923.

WEAR PLUS

Particular description of goods.—Knit Goods in the Piece Manufactured from or Consisting of Wool, Cotton, Silk, Worsted, or Combinations of These Mixtures.
Claims use since Aug. 15, 1922.

Ser. No. 176,417. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) HI MOULTON, doing business as Master Method Music Co., Pasadena, Calif. Filed Feb. 21, 1923.



Particular description of goods.—Phonograph Records.
Claims use since Jan. 1, 1923.

Ser. No. 176,533. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BERNESE ALPS MILK CO., Stalden, Switzerland. Filed Feb. 24, 1923.



Particular description of goods.—Milk and Milk Products—Namely, Cream, Cheese, and Casein.
Claims use since 1892.

Ser. No. 177,463. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ADVANCE BATTERY MFG. CO., Louisville, Ky. Filed Mar. 15, 1923.



Particular description of goods.—Dry and Storage Batteries.
Claims use since February, 1922.

Ser. No. 179,146. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GORELICK & SONS, New York, N. Y. Filed Apr. 14, 1923.



No claim is made to the words "Brand, Snow White Laundered, Ready for Use, Men's Handkerchiefs, 1 for 10c, Sanitary and Soft Linen Finish" apart from the mark as shown.

Particular description of goods.—Handkerchiefs.
Claims use since Jan. 1, 1920.

Ser. No. 179,269. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE HEINBACH BAKING COMPANY, Allentown, Pa. Filed Apr. 17, 1923.



No claim is made to the word "Loaf" apart from the mark shown in the drawing.

Particular description of goods.—Bread.
Claims use since Sept. 15, 1922.

Ser. No. 179,645. (CLASS 39. CLOTHING.) ROBERT BAER, doing business as Robert Baer Hat Co., Los Angeles, Calif. Filed Apr. 25, 1923.



Applicant hereby disclaims the words "Quality Luxurious" and "Fashion Hats" as a part of said trade-mark.

Particular description of goods.—Hats and Caps for Men and Boys.
Claims use since July 1, 1921.

Ser. No. 179,719. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) WILLIAM A. GILCHRIST, Chicago, Ill. Filed Apr. 26, 1923.



For the purposes of this application no claim is made to the words "Power from Waste" except in the association shown; but no common-law rights to said words are waived.

Particular description of goods.—Steam-Boiler Furnaces and Parts Thereof.
Claims use since July 15, 1922.

Ser. No. 179,860. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELMER CANDY CO., INC., New Orleans, La. Filed Apr. 28, 1923.



The representation of the barrel being lined to indicate the color red.

Particular description of goods.—Candy.
Claims use since June 1, 1921.

Ser. No. 179,865. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LEO A. GROUTEN, Unionville, Conn. Filed Apr. 28, 1923.



Applicant hereby disclaims all wording appearing on the drawing except "Culmor Leghorn Farm."

Particular description of goods.—Eggs.
Claims use since Jan. 1, 1923.

Ser. No. 179,880. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE NOVAFAEX COMPANY, Chicago, Ill. Filed Apr. 28, 1923.



Particular description of goods.—Prepared Yeast Food Tonic.
Claims use since Feb. 1, 1923.

Ser. No. 180,166. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) F. R. ARNOLD & CO., New York, N. Y. Filed May 4, 1923.



Particular description of goods.—Perfumery Extracts, Toilet Powders, and Bath Crystals.
Claims use since July 14, 1922.

Ser. No. 180,328. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES J. BROWN, doing business as The B. K. Laboratory, Kansas City, Kans. Filed May 8, 1923.



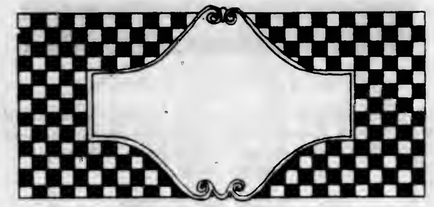
Particular description of goods.—Preparation for Cleaning the Teeth and Mouth.
Claims use since Feb. 1, 1923.

Ser. No. 180,770. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OHIO VALLEY COFFEE CO., Portsmouth, Ohio. Filed May 17, 1923.



Particular description of goods.—Coffee.
Claims use since Dec. 21, 1922.

Ser. No. 181,005. (CLASS 39. CLOTHING.) THE BETTMANN-DUNLAP COMPANY, Cincinnati, Ohio. Filed May 23, 1923.



Particular description of goods.—Leather Boots and Shoes.
Claims use since Jan. 15, 1923.

Ser. No. 181,232. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ORANGE MILL COMPANY, INC., Coney Island, N. Y. Filed May 26, 1923.



Particular description of goods.—Waffles.
Claims use since May 9, 1923.

Ser. No. 181,286. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LAS-KA COMPANY, INC., Des Moines, Iowa. Filed May 28, 1923.



No claim is made to the exclusive right to the use of the words "5¢ the World Over."

Particular description of goods.—A Candy Cup for Holding Ice Cream and Ices.
Claims use since Apr. 21, 1921.

Ser. No. 181,357. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) TELULAH PETRALYKE COMPANY, Appleton, Wis. Filed May 29, 1923.



Particular description of goods.—Visors for Vehicles.
Claims use since July, 1920.

Ser. No. 181,481. (CLASS 39. CLOTHING.) GEORGE FROST COMPANY, Boston, Mass. Filed June 2, 1923.

KNICKER Boston Garter

No claim is made herein to the exclusive use of the words "Boston Garter" apart from the trade-mark shown.
Particular description of goods.—Men's Garters.
Claims use since May 17, 1923.

Ser. No. 181,828. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) A. RAYMOND GOLDSWORTHY, Brockton, Mass. Filed June 11, 1923.



No claim is made to the use of the words "Hand Cleaner" and "Trade Mark" apart from the mark as shown on the drawing.
Particular description of goods.—Hand Cleaner.
Claims use since Mar. 1, 1923.

Ser. No. 181,976. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CANDY-TOY COMPANY OF AMERICA, Harrisburg, Pa. Filed June 14, 1923.



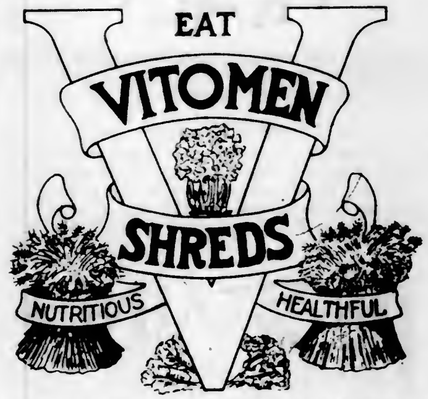
The drawing is lined for the color red.
Particular description of goods.—Toy Consisting of a Balloon on the End of a Holder.
Claims use since Oct. 9, 1922.

Ser. No. 182,015. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN SCOWCROFT & SONS COMPANY, Ogden, Utah. Filed June 14, 1923.

KITCHEN KING

Particular description of goods.—Tea, Shelled Walnuts in Their Natural State, Vinegar, and Tomato Catchup.
Claims use since Nov. 1, 1922.

Ser. No. 182,025. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VITOMEN CEREAL COMPANY, Tacoma, Wash. Filed June 14, 1923.



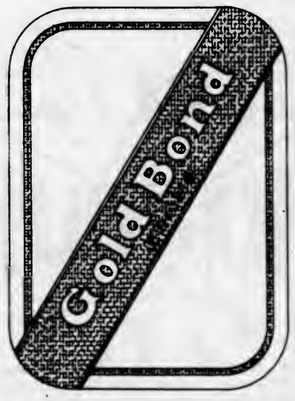
The words "Eat," "Nutritious," and "Healthful" are disclaimed apart from the mark as shown on the drawing.
Particular description of goods.—Breakfast Cereal.
Claims use since May 8, 1922.

Ser. No. 182,193. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) WEBER COSTELLO CO., Chicago Heights, Ill. Filed June 18, 1923.



Exclusive use of the words "Time Tested School Supplies" apart from the other features of the trade-mark is hereby disclaimed.
Particular description of goods.—Blackboards and Blackboard Stands.
Claims use since at least Aug. 1, 1918, on blackboard stands, since at least Mar. 29, 1919, on blackboards.

Ser. No. 182,204. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ISAAC EPSTEIN, Newark, N. J. Filed June 19, 1923.



The outline of the container apart from the other features of the mark is specifically disclaimed. The drawing is lined to indicate the color gold.
Particular description of goods.—Canned Sardines.
Claims use since about Mar. 1, 1923.

Ser. No. 182,251. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) ABRAHAM I. LEVIN, doing business as Rawhide Products Distributing Co., Kenilworth, N. J. Filed June 20, 1923.

RIMLINER

Particular description of goods.—Inner and Exterior Tire Flaps for Automobile Tires; Tire Accessories—Namely, Tube Patches, Blow-Out Patches, and Rubber Cement and Rim-Repair Parts.
Claims use since April, 1922.

Ser. No. 182,581. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) D. P. HARRIS HARDWARE & MANUFACTURING CO. INC., New York, N. Y. Filed June 29, 1923.



Particular description of goods.—Children's Bicycles and Velocipedes.
Claims use since about March, 1923.

Ser. No. 182,582. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) D. P. HARRIS HARDWARE & MANUFACTURING CO. INC., New York, N. Y. Filed June 29, 1923.



Particular description of goods.—Children's Bicycles and Velocipedes.
Claims use since about Apr. 15, 1923.

Ser. No. 182,583. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) D. P. HARRIS HARDWARE & MANUFACTURING CO. INC., New York, N. Y. Filed June 29, 1923.



Particular description of goods.—Children's Bicycles and Velocipedes.
Claims use since about 1913.

Ser. No. 182,650. (CLASS 39. CLOTHING.) CAMMEYER, New York, N. Y. Filed June 30, 1923.

The Junior

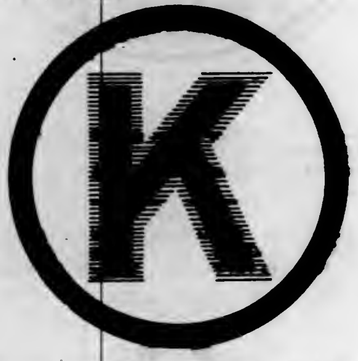
Drawing consists of the words "The Junior."
Particular description of goods.—Children's Leather and Fabric Shoes.
Claims use since Mar. 23, 1896.

Ser. No. 182,667. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTHERN PACKING COMPANY, Grand Forks, N. Dak. Filed June 30, 1923.

SWEET CLOVER

Particular description of goods.—Ham, Lard, Bacon, Sausage, Salt Pork, Jellied Tongue, and Pigs' Feet.
Claims use since Dec. 18, 1919.

Ser. No. 182,756. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) L. H. KIRKPATRICK, Walsenburg, Colo. Filed July 3, 1923.



Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since June 1, 1922.

Ser. No. 182,889. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE WORTHINGTON BALL COMPANY, Elyria, Ohio. Filed July 6, 1923.

MARVEL

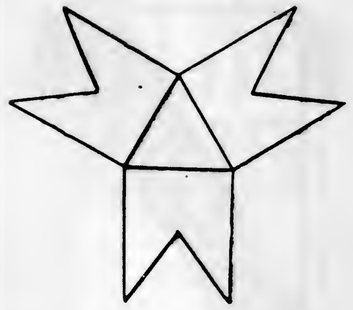
Particular description of goods.—Golf Balls.
Claims use since June 13, 1923.

Ser. No. 182,963. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY B. DYER, doing business as National Safe Protector Co., Minneapolis, Minn. Filed July 9, 1923.

PERILINE

Particular description of goods.—Noxious-Gas-Producing Liquid for the Protection of Safes and the Like.
Claims use since on or about September, 1922.

Ser. No. 182,984. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE MITCHAM RUBBER CO. LTD., London, England. Filed July 9, 1923.



Particular description of goods.—Seamless Dipped India-Rubber Goods—Namely, Hot-Water Bags, Fountain Syringes, High Enema Tubes, Cracked-Ice Bags, Gloves, and Teats.
Claims use since June 12, 1918.

Ser. No. 182,993. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn. Filed July 9, 1923.

SOUTHERN KING

Particular description of goods.—Flour Made from Wheat.
Claims use since on or about Apr. 17, 1923.

Ser. No. 183,089. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THOMAS W. THACKERY, Jr., Winnetka, Ill. Filed July 11, 1923.

VAL-A-SOO-K

Particular description of goods.—Wardrob Traveling Cases.
Claims use since June 28, 1923.

Ser. No. 183,242. (CLASS 39. CLOTHING.) AMERICAN LADY CORSET CO., Detroit, Mich. Filed July 16, 1923.

ABDO-LIFT

Particular description of goods.—Corsets, Corset Waists, Brassières, Bandeaux, Girdles, Hose Supporters, Diaphragm Confiners; Ladies' Undergarments—Namely, Camisoles, Step-Ins, Chemises, Vests, Corset Covers, and Combinations of Brassières and Corsets.
Claims use since May 1, 1923.

Ser. No. 183,285. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HECKER-JONES-JEWELL MILLING COMPANY, New York, N. Y. Filed July 16, 1923. Under ten-year proviso.

HUDSON

Particular description of goods.—Wheat Flour.
Claims use since 1892.

Ser. No. 183,319. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHAFER BAKERY, INC., Savannah, Ga. Filed July 16, 1923.

ALLOVIT

Particular description of goods.—Bread.
Claims use since May 30, 1923.

Ser. No. 183,324. (CLASS 37. PAPER AND STATIONERY.) WILLIAM S. TUTTLE, doing business as Tuttle Law Print, Rutland, Vt. Filed July 16, 1923.

RUTLAND VERMONT

No claim is made for "Rutland Vermont" apart from the mark shown by the drawing.
Particular description of goods.—Filing Envelopes and Manuscript Covers.
Claims use since Dec. 1, 1922.

Ser. No. 183,386. (CLASS 2. RECEPTACLES.) SYDNEY KANN, doing business as Sydney Kann & Co., Detroit, Mich. Filed July 18, 1923.



No claim is made to the words "Bags and Baskets" nor the representations of a bag and basket apart from the mark shown on the drawing.
Particular description of goods.—Paper Bags and Baskets.
Claims use since May 1, 1923.

Ser. No. 183,402. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) JERRY NOVAK, South Milwaukee, Wis. Filed July 18, 1923.

"Jerry's"

SCRUBBING BOARD

No claim is made to the words "Scrubbing Board" aside from the mark shown for knee rests for use in scrubbing and the like.
Particular description of goods.—Knee Rests for Use in Scrubbing and the Like.
Claims use since July 5, 1923.

Ser. No. 183,475. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HECKER-JONES-JEWELL MILLING COMPANY, New York, N. Y. Filed July 20, 1923.

LA TUMBADORA

Particular description of goods.—Wheat Flour.
Claims use since 1902.

Ser. No. 183,476. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HECKER-JONES-JEWELL MILLING COMPANY, New York, N. Y. Filed July 20, 1923. Under ten-year proviso.

FOAMING SEA

Particular description of goods.—Wheat Flour.
Claims use since 1883.

Ser. No. 183,480. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HECKER-JONES-JEWELL MILLING COMPANY, New York, N. Y. Filed July 20, 1923. Under ten-year proviso.

WEST INDIA BELLE



Particular description of goods.—Wheat Flour.
Claims use since 1894.

Ser. No. 183,500. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BESSIE S. POWELL, doing business as Beth Tantum, Los Angeles, Calif. Filed July 20, 1923.



The pictorial representation of the container of the goods is disclaimed apart from the features of the mark.
Particular description of goods.—Marmalade.
Claims use since on or about Nov. 1, 1921.

Ser. No. 183,505. (CLASS 37. PAPER AND STATIONERY.) SCHMIDT & AULT PAPER CO., York, Pa. Filed July 20, 1923.



Particular description of goods.—Box Board and Wrapping Paper.
Claims use since Apr. 6, 1923.

Ser. No. 183,581. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MARMITE FOOD EXTRACT CO. LTD., London, England. Filed July 23, 1923.

CEREMA-MARMITE

Particular description of goods.—Poultry Food.
Claims use since September, 1922.

Ser. No. 183,594. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE FRANK R. PRINA CORPORATION, New York, N. Y. Filed July 23, 1923.

BIG YIELD

Particular description of goods.—Wheat Flour.
Claims use since Feb. 15, 1922.

Ser. No. 183,609. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. P. TANNER-GROSS & CO., INC., New York, N. Y. Filed July 23, 1923.

VIVO

Particular description of goods.—Semolina Made of Durum Wheat.
Claims use since Mar. 1, 1921.

Ser. No. 183,637. (CLASS 39. CLOTHING.) JOHN B. STETSON COMPANY, Philadelphia, Pa. Filed July 24, 1923.

THE STETSONIAN

Particular description of goods.—Soft and Stiff Felt Hats and Caps for Men and Boys.
Claims use since April, 1917.

Ser. No. 183,658. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DUDLEY J. MARSTON, Amesbury, Mass. Filed July 25, 1923.

PEBBLE

GRIP

No claim is made to the word "Grip" apart from the mark shown in the accompanying drawing.
Particular description of goods.—Baseball Bats.
Claims use since January, 1922.

Ser. No. 183,677. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUNNYSIDE MILLING CO., Evansville, Ind. Filed July 25, 1923.



Particular description of goods.—Wheat Flour.
Claims use since May 1, 1919.

Ser. No. 183,724. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GEORGE W. SHEPPARD, San Francisco, Calif. Filed July 26, 1923.

EGYPTIAN EXPLORATION
KING
Keperu neb Ra
TUT
ankh Amen
GAME

No claim is made for the word "Game" only as used to qualify the said trade-mark.
Particular description of goods.—Parlor Games. The Game is Composed of a Plurality of Pieces, the Several Pieces Each Having Marked Thereon One of the Egyptian Hieroglyphic Characters Composing or One of the Cartouches Representing the Name of King Keperu neb Ra—Tut ankh Amen—and One of the Pieces Having the Representation of the Head of the King, the Several Pieces Each Being Also Marked with a Number Determining Its Order in Relation to the Other Pieces.
Claims use since Apr. 15, 1923.

Ser. No. 183,745. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) INNOVATION INGENUITIES INCORPORATED, New York, N. Y. Filed July 27, 1923.

LEVIATHAN

Particular description of goods.—Trunks, Traveling Bags, Leather Bags, and Leather, Black Enamel, and Fabrikoid Suitcases.
Claims use since July 17, 1923.

Ser. No. 183,779. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SOUTHERN ILLINOIS MILLING COMPANY, Murphysboro, Ill. Filed July 27, 1923.

Maryola

Particular description of goods.—Wheat Flour.
Claims use since about July 21, 1923.

Ser. No. 183,814. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BARG & FOSTER CANDY COMPANY, Milwaukee, Wis. Filed July 30, 1923.



The words "Homaid Candies" are disclaimed apart from the other features of the mark.

Particular description of goods.—Confectionery—Namely, Candy Bar, Chocolate Covering, with Cream and Nut Filling.

Claims use since Mar. 1, 1921.

Ser. No. 183,815. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BARG & FOSTER CANDY COMPANY, Milwaukee, Wis. Filed July 30, 1923.



"Denver Sandwich" with the words "Sperry's Homaid Candies" appearing in a circle design at the upper left-hand corner, mountains above, and a girl in saddle on horse's back at the right. The words "Homaid Candies" are disclaimed apart from the other features of the mark.

Particular description of goods.—Confectionery—Namely, Candy Nut Bar with Chocolate Covering.

Claims use since Dec. 1, 1922.

Ser. No. 183,816. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BARG & FOSTER CANDY COMPANY, Milwaukee, Wis. Filed July 30, 1923.



Trade-mark "Lover's Hash" appearing in the square with the words "Sperry's Homaid Candies" in circular design to the left. The words "Homaid Candies" are disclaimed apart from the other features of the mark.

Particular description of goods.—Confectionery—Namely, Candy Nut Bar Composed of Fudge, Coconuts, and Filberts.

Claims use since Mar. 1, 1921.

Ser. No. 183,846. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) RICHARD H. MORAN, doing business as Acme Varnish Works, Brooklyn, N. Y. Filed July 30, 1923.



Particular description of goods.—Varnishes, Stains, Ready-Mixed Paints, and Flat Whites and Paint Enamels

Claims use since Apr. 10, 1917.

Ser. No. 183,877. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HECKER-JONES-JEWELL MILLING COMPANY, New York, N. Y. Filed July 31, 1923. Under ten-year proviso.



Particular description of goods.—Wheat Flour.

Claims use since 1885.

Ser. No. 183,908. (CLASS 39. CLOTHING.) COHN & KAPLAN, New York, N. Y. Filed Aug. 1, 1923.



Particular description of goods.—Ladies' and Misses' Hats.

Claims use since June 1, 1923.

Ser. No. 183,983. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MENORAH FOOD PRODUCTS CO., INC., New York, N. Y. Filed Aug. 2, 1923.



Particular description of goods.—Sesame Oil.

Claims use since May 2, 1923.

Ser. No. 184,008. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNIVERSAL MILLS, Fort Worth, Tex. Filed Aug. 2, 1923.

OLD TRUSTY

Particular description of goods.—Scratch Feed.

Claims use since July, 1920.

Ser. No. 184,010. (CLASS 39. CLOTHING.) D. S. WALLERSTEIN AND COMPANY, doing business as Bonnie Bonnet Co., Baltimore, Md. Filed Aug. 2, 1923.

Bonnie Bonnet

Particular description of goods.—Ladies' and Children's Hats.

Claims use since Jan. 1, 1922.

Ser. No. 184,079. (CLASS 46. FOODS ANH INGREDIENTS OF FOODS.) M. D. KING MILLING COMPANY, Pittsfield, Ill. Filed Aug. 4, 1923.

KINGOLD

Particular description of goods.—Self-Rising Flour.

Claims use since about June 2, 1923.

Ser. No. 184,080. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) M. D. KING MILLING COMPANY, Pittsfield, Ill. Filed Aug. 4, 1923.

KINGSON

Particular description of goods.—Self-Rising Flour.

Claims use since about June 2, 1923.

Ser. No. 184,120. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CITRUS PRODUCTS COMPANY, Chicago, Ill. Filed Aug. 6, 1923.

ELLA

Particular description of goods.—Food-Flavoring Extracts.

Claims use since Jan. 1, 1922.

Ser. No. 184,357. (CLASS 37. PAPER AND STATIONERY.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed Aug. 11, 1923.



No claim is made to the words "Green Bay Wisconsin" or "Single Service Cabinet Tissue" apart from the mark shown.

Particular description of goods.—Toilet Paper.

Claims use since Jan. 24, 1921.

Ser. No. 184,371. (CLASS 39. CLOTHING.) THE WARNER BROTHERS COMPANY, Bridgeport, Conn. Filed Aug. 11, 1923.

Oriental

Particular description of goods.—Women's Fitted Undergarments, Including Corsets, Brassières, and Girdles.
Claims use since July 31, 1923.

Ser. No. 184,466. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM C. KAMMERER, doing business as Missouri Butter Company, St. Louis, Mo. Filed Aug. 14, 1923.

COUNTRY MAID

Particular description of goods.—Butter.
Claims use since about Aug. 23, 1922.

Ser. No. 184,531. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Aug. 15, 1923.

ORANGE BLOSSOM

Particular description of goods.—Cakes.
Claims use since Aug. 3, 1923.

Ser. No. 184,532. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Aug. 15, 1923.

SILVER CLOUD

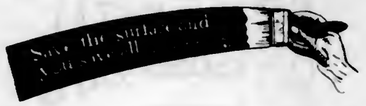
Particular description of goods.—Cakes.
Claims use since Aug. 3, 1923.

Ser. No. 184,533. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Aug. 15, 1923.

KOKOLA

Particular description of goods.—Cakes.
Claims use since Aug. 3, 1923.

Ser. No. 184,561. (CLASS 38. PRINTS AND PUBLICATIONS.) THE NATIONAL SAVE THE SURFACE CAMPAIGN COMMITTEE, doing business as Save The Surface Campaign, Philadelphia, Pa. Filed Aug. 16, 1923.



Particular description of goods.—Paint and Varnish Monthly Periodical Publication.
Claims use since about March, 1919.

Ser. No. 184,627. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TEXAS DISTRIBUTING COMPANY, Dallas, Tex. Filed Aug. 17, 1923.



Particular description of goods.—Sweet Potatoes in Their Natural State.
Claims use since Apr. 1, 1923.

Ser. No. 184,704. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ANSTED & BURK COMPANY, Springfield, Ohio. Filed Aug. 20, 1923.



Particular description of goods.—Wheat Flour.
Claims use since May 3, 1923.

Ser. No. 184,736. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. H. KING FLOUR MILLS COMPANY, Minneapolis, Minn. Filed Aug. 20, 1923.



Particular description of goods.—Wheat Flour.
Claims use since Aug. 8, 1923.

Ser. No. 184,784. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DENZER & NATHAN, INC., New York, N. Y. Filed Aug. 21, 1923.

FONTAINE

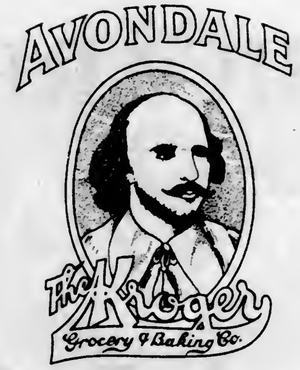
Particular description of goods.—Cotton Goods in the Piece.
Claims use since Aug. 1, 1923.

Ser. No. 184,805. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WILLIAM SYKES, LIMITED, Horbury and London, England. Filed Aug. 21, 1923.

ZIG-ZAG

Particular description of goods.—Footballs, Basket Balls, Soccer Balls, and Punching Balls.
Claims use since May 14, 1923.

Ser. No. 184,926. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE KROGER GROCERY & BAKING CO., Cincinnati, Ohio. Filed Aug. 20, 1923.



The picture shown is a fanciful portrait of the poet Shakespeare.
Particular Description of goods.—Canned Fruits—Namely, Apricots, Pineapple, Peaches; Canned Vegetables—Namely, Pumpkin, Beets, Sweet Potatoes, Hominy, Lima Beans, Beans, Corn, Tomatoes, Sauerkraut, Asparagus; Canned Fish—Namely, Salmon; Condiments—Namely, Table Sauce, and Prepared Mustard.
Claims use since 1885.

Ser. No. 184,937. (CLASS 39. CLOTHING.) CROOKS BROTHERS MILLINERY COMPANY, Quincy, Ill. Filed Aug. 24, 1923.



Particular description of goods.—Ladies' and Children's Hats.
Claims use since Jan. 2, 1919.

Ser. No. 184,941. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HYDRAULIC BRAKE COMPANY, Los Angeles, Calif., and Detroit, Mich. Filed Aug. 24, 1923.

LOCKHEED

Particular description of goods.—Vehicle Brakes.
Claims use since Jan. 2, 1923.

Ser. No. 184,951. (CLASS 12. CONSTRUCTION MATERIALS.) ADAMS & JEWELL, Rome, N. Y. Filed Aug. 25, 1923.

HICARB

Particular description of goods.—Plastic Cements.
Claims use since May 1, 1923.

Ser. No. 184,973. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) LA FRANCE PRODUCTS CORPORATION, New York, N. Y. Filed Aug. 25, 1923.

Ki Ki

Particular description of goods.—Nonalcoholic, Maltless Soft Drinks.
Claims use since March, 1923.

Ser. No. 184,984. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) PRECISION ADDING MACHINE COMPANY, Charlotte, N. C. Filed Aug. 25, 1923.

Quizsum

Particular description of goods.—Adding Machines.
Claims use since October, 1922.

Ser. No. 184,989. (CLASS 39. CLOTHING.) SLOTE & SCHAFFER, New York, N. Y. Filed Aug. 25, 1923.

DOLLY MADISON

Particular description of goods.—Ladies' Belts for Personal Wear.
Claims use since June 15, 1923.

Ser. No. 184,999. (CLASS 37. PAPER AND STATIONERY.) WELLAR AND ADAMS, Ithaca, N. Y. Filed Aug. 25, 1923.

Baby Blue



Particular description of goods.—Pass Books and Blank Form Cards.
Claims use since June 1, 1922.

Ser. No. 185,025. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MALLOTT, JOHNSON CO., Chicago, Ill. Filed Aug. 27, 1923.

Flower Girl

Particular description of goods.—Canned Vegetables—Namely, Corn, Pumpkin, Wax Beans, Stringless Beans, Lima Beans, Hominy, Peas, Tomatoes, Whole Beets; Canned Tomato Purée; Canned Fruits—Namely, Apricots, Pears, Peaches; Canned Fish—Namely, Salmon, Tunny Fish; Canned Chile Con Carne, Fruit Jellies, Fruit Preserves, and Tomato Catchup.
Claims use since 1905.

Ser. No. 185,026. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MALLOTT, JOHNSON CO., Chicago, Ill. Filed Aug. 27, 1923.

LAKE VIEW

Particular description of goods.—Canned Vegetables—Namely, Corn, Tomatoes, Peas, Succotash, Spinach, Sweet Potatoes, Sauerkraut, Lima Beans, Wax Beans, Red Kidney Beans; Canned Pork and Beans; Canned Fruits—Namely, Apricots, Cherries, Loganberries, Red Raspberries, Grapefruit, Strawberries, Pineapple, Pears, Peaches; Canned Fruit Salad; Canned Fish—Namely, Salmon, Sardines, Tunny Fish; Canned Lobster and Shrimp, Macaroni, Spaghetti, Egg Noodles, Tomato Catchup, Fruit Preserves, Fruit Jellies, Peanut Butter, Olives, Chilli Sauce, Evaporated Milk, and Coffee.
Claims use since 1905.

Ser. No. 185,081. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE HOLLISTON MILLS INC., Norwood, Mass. Filed Aug. 28, 1923.

"BARCO"

Particular description of goods.—Book Lacquer, Varnishes, Lacquers, and Automobile Top Dressings in the Nature of a Paint.
Claims use since 1915.

Ser. No. 185,101. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ADVANCE MACHINE COMPANY, Chicago, Ill. Filed Aug. 29, 1923.

VISTASCOPE

Particular description of goods.—Picture-Viewing Machines.
Claims use since February, 1923.

Ser. No. 185,152. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE L. S. STARRETT COMPANY, Athol, Mass. Filed Aug. 29, 1923.



Particular description of goods.—Bevels, Calipers, Dividers, Center Testers, Bench Micrometer Gauges, Button Gauges, Caliper Gauges, Center Gauges, Circumference Gauges, Depth Gauges, Drill Gauges, Tap and Wire Gauges, End-Measuring Gauges, Engineers' Gauges, Fillet or Radius Gauges, Height-Gauge Attachments, Vernier Height Gauges, Hub Gauges, Inside Gauges, Inspector's Gauges, Micrometer-Calipers Gauges, Paper Gauges, Planer and Shaper Gauges, Scratch Gauges, Screw Pitch Gauges, Sole Gauges, Stair Gauges, Surface Gauges, Taper Gauges, Telescoping Gauges, Spring Depth Gauges, Dial-Sheet Gauges, Thickness or Feeler Gauges, Wire Gauges, 29° Screw-Thread Gauges, Rolling-Mill Gauges, and Protractor and Depth Gauges, Inclinometers, Micrometers, Micrometer Stands, Parallels, Protractors, Steel Rules, Section Liners, Speed Indicators, Squares, Test Indicators, Transits, Tape Measures, Combination Squares and Bevels, Ball Points, Tool-Makers' Buttons, Plumb Bobs, Straightedges, and Trammels.
Claims use since about Apr. 15, 1897.

Ser. No. 185,153. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE L. S. STARRETT COMPANY, Athol, Mass. Filed Aug. 29, 1923.



Particular description of goods.—Brad Sets, Center Punches, Clamps, Countersinks, Cut Nippers, Drill Blocks, Hack Saws and Frames, Nail Sets, Pin Vises, Attachments for Wrench Jaws for Holding Pipes, Pliers, Saws, Scrapers, Screw Drivers, Scribers, Tap Wrenches, Vises, and Wrenches.
Claims use since about Apr. 15, 1897.

Ser. No. 185,223. (CLASS 38. PRINTS AND PUBLICATIONS.) HOWARD MARKEL, New York, N. Y. Filed Aug. 31, 1923.

THE SPORTSWOMAN

Particular description of goods.—Title for Heading of Newspaper Column or Article Published from Time to Time.
Claims use since Jan. 1, 1923.

Ser. No. 185,232. (CLASS 27. HOROLOGICAL INSTRUMENTS.) S. M. WATCH CASE CO., INC., New York, N. Y. Filed Aug. 31, 1923.

SWCCOM

Particular description of goods.—Watchcases.
Claims use since Apr. 1, 1923.

Ser. No. 185,233. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MITCHELL B. STOCK, doing business as Mitchell B. Stock Company, New Haven, Conn. Filed Aug. 31, 1923.

"FULL O' JOY"

The picture forming a feature of the mark is fanciful and not the portrait of any individual.

Particular description of goods.—Candy and Cakes.

Claims use since July 21, 1921.

Ser. No. 185,268. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE TRANSLOID PRODUCTS CO., Danbury, Conn. Filed Sept. 1, 1923.

TRANSLOID

Particular description of goods.—Transparent and Translucent Sheets Having a Gelatin Base or a Casein Base.

Claims use since Apr. 17, 1923.

Ser. No. 185,276. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) WILLSON GOGGLES, INC., Reading, Pa. Filed Sept. 1, 1923.

W

Particular description of goods.—Ophthalmic Mountings and Parts Thereof.

Claims use since Aug. 1, 1915.

Ser. No. 185,321. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Sept. 4, 1923.

SOCONY

Particular description of goods.—Edible Oils—Namely, Technical White Oil.

Claims use since May 12, 1923.

Ser. No. 185,325. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) R. WINTER LIMITED, Birmingham, England. Filed Sept. 4, 1923.

HARVO

Particular description of goods.—Flour, Bread, Biscuits, and Cake.

Claims use since 1912.

Ser. No. 185,336. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CURTIS L. GREEN, doing business as C. L. Green Milling and Grain Co., Winters, Tex. Filed Sept. 5, 1923.

GOLDEN BELL

Particular description of goods.—Wheat Flour and Corn Meal.

Claims use since May 1, 1919.

Ser. No. 185,355. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARKADELPHIA MILLING CO., Arkadelphia, Ark. Filed Sept. 6, 1923.

Honey Corn

Particular description of goods.—Stock Feed.

Claims use since June 7, 1923.

Ser. No. 185,384. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SOUTHWESTERN MILLING COMPANY INC., New York, N. Y. Filed Sept. 6, 1923.

LA FLECHA

Particular description of goods.—Wheat Flour.

Claims use since Aug. 11, 1923.

Ser. No. 185,385. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPARKS MILLING COMPANY, Terre Haute, Ind. Filed Sept. 6, 1923.

QUALITO

Particular description of goods.—Wheat Flour.

Claims use since Aug. 20, 1923.

Ser. No. 185,393. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Sept. 6, 1923.

HAPPY MAID

Particular description of goods.—Bread.

Claims use since Aug. 17, 1923.

Ser. No. 185,513. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE EUCLID CANDY CO., Cleveland, Ohio. Filed Sept. 8, 1923.

Roosevelt Squares

Particular description of goods.—Candy.

Claims use since Jan. 1, 1921.

Ser. No. 185,566. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. C. CHRISTIANS CO., Chicago, Ill. Filed Sept. 10, 1923.

HOLLYBROOK BRAND

The word "Brand" does not form a part of the registration sought apart from the mark shown in the drawing.

Particular description of goods.—Butter.

Claims use since Aug. 1, 1923.

Ser. No. 185,604. (CLASS 12. CONSTRUCTION MATERIALS.) MARBLEHEAD LIME COMPANY, Chicago, Ill. Filed Sept. 10, 1923.

Hy-Lime

The word "Lime" does not form a part of the registration sought apart from the mark shown in the drawing.

Particular description of goods.—Hydrated Lime.

Claims use since Mar. 1, 1923.

Ser. No. 185,609. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTHWEST FRUIT PRODUCTS COMPANY, Salem, Oreg. Filed Sept. 10, 1923.

Jimmy

"Jimmy."

Particular description of goods.—Canned Fruits, Canned Berries.

Claims use since May 2, 1923.

Ser. No. 185,693. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WILLIAM H. BUSH, Wellesley Hills, Mass. Filed Sept. 12, 1923.

BIRD-CAR

The word "-Car" is hereby disclaimed except in connection with the other features of the mark.

Particular description of goods.—Children's Velocipdes.

Claims use since about October, 1921.

Ser. No. 185,735. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Sept. 12, 1923.

GRO-THIN

Particular description of goods.—Bread.

Claims use since Aug. 29, 1923.

Ser. No. 185,736. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Sept. 12, 1923.

SATISFACTION

Particular description of goods.—Bread and Cake.
Claims use since Aug. 29, 1923.

Ser. No. 185,796. (CLASS 17. TOBACCO PRODUCTS.) R. J. SEIDENBERG COMPANY, Buffalo, N. Y. Filed Sept. 14, 1923.



Hotel Statler

Particular description of goods.—Cigars, Cigarettes, Cheroots, and Smoking Tobacco.
Claims use since 1911.

Ser. No. 185,821. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. FISCHER & CO. INC., New York, N. Y. Filed Sept. 15, 1923.

BROWN DIAMONDS

Particular description of goods.—Coffee.
Claims use since Sept. 1, 1923.

Ser. No. 185,854. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) FELIX HERTZ, doing business as American Buckle Co., New York, N. Y. Filed Sept. 17, 1923.

—PIONEER—

Particular description of goods.—Bags, Valises, Portfolios, Pocketbooks, Suitcases, and School Bags Made Partially or Wholly of Leather, Leather Substitutes or Textile Fabrics.
Claims use since Jan. 1, 1923.

Ser. No. 185,888. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RASCH & GAINOR, Baltimore, Md. Filed Sept. 17, 1923.



Particular description of goods.—Window-Shade Material, Lace Curtains, Bedspreads and Bed Sets of Cotton; Blankets of Cotton, Wool, and Cotton and Wool; Portières of Cotton, Jute, Silk, and Fiber Silk; and Drapery Materials of Cotton, Silk, and Silkaline.
Claims use since the fall of 1909.

Ser. No. 185,946. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE WILLYS-OVERLAND COMPANY, Toledo, Ohio. Filed Sept. 19, 1923.

RED BIRD

Particular description of goods.—Passenger-Carrying Automobiles.
Claims use since on or about Aug. 1, 1923.

Ser. No. 185,955. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLESTON MILLING & PRODUCE COMPANY, Charleston, W. Va. Filed Sept. 20, 1923.

LA-ROY

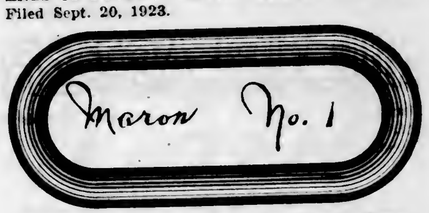
Particular description of goods.—Flour.
Claims use since May 19, 1923.

Ser. No. 185,960. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE WILLIAM CRAMP & SONS SHIP & ENGINE BUILDING CO., Philadelphia, Pa. Filed Sept. 20, 1923. Under ten-year proviso.

I.P.MORRIS

Particular description of goods.—Turbines, Pumps, Hydraulic Turbines, Turbine Governors, and Parts of Hydraulic Turbines, Pumps, and Turbine Governors.
Claims use since Jan. 1, 1842.

Ser. No. 185,979. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DANNEL MARONIK, Detroit, Mich. Filed Sept. 20, 1923.



Particular description of goods.—Banana Flour.
Claims use since Aug. 31, 1923.

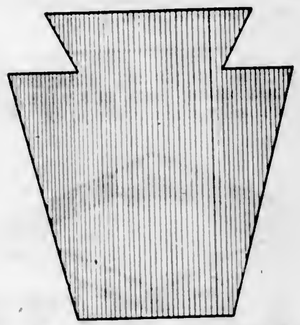
Ser. No. 185,985. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PETERSEN & PEGAU BAKING CO., Omaha, Nebr. Filed Sept. 20, 1923.



Particular description of goods.—Bread.
Claims use since July 27, 1923.

Ser. No. 186,016. (CLASS 12. CONSTRUCTION MATERIALS.) HOWARD LEEFLER, doing business as Keystone Drain Board Co., Los Angeles, Calif. Filed Sept. 21, 1923.

Keystone



The shading on the drawing indicates the color red.
Particular description of goods.—Composition Drain Boards, Magnesite, Composition Floor and Wall Covering, Composition Mantles, and Magnesite Composition Drain Floors for Showers.
Claims use since 1911.

Ser. No. 186,029. (CLASS 37. PAPER AND STATIONERY.) SPECIAL PAPER MFG. CO., New York, N. Y. Filed Sept. 21, 1923.

SUPER-BOND

Applicant hereby formally disclaims "Bond" apart from the mark shown.
Particular description of goods.—Prepared Tracing Paper.
Claims use since Aug. 1, 1923.

Ser. No. 186,034. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TAYLOR CANDY COMPANY, Newark, N. J. Filed Sept. 21, 1923.



In the mark no exclusive right is claimed for the use of the words "Peanut Bar" apart from the mark as shown.
Particular description of goods.—Peanut Bar.
Claims use since Apr. 30, 1922.

Ser. No. 186,036. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE WILLIAM CRAMP & SONS SHIP & ENGINE BUILDING CO., Philadelphia, Pa. Filed Sept. 21, 1923. Under ten-year proviso.

CRAMP

Particular description of goods.—Turbines, Pumps, Hydraulic Turbines, Turbine Governors, and Parts of Hydraulic Turbines, Pumps, and Turbine Governors.
Claims use since May 1, 1891.

Ser. No. 186,052. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GREAT STATES CORPORATON, Richmond, Ind. Filed Sept. 22, 1923.

NEPTUNE

Particular description of goods.—Water Circulator for Cooling Systems for Gasoline Engines for Autos.
Claims use since on or about Mar. 13, 1923.

Ser. No. 186,092. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) VIRGINIAN TIRE & RUBBER COMPANY, St. Albans, W. Va. Filed Sept. 22, 1923.

"THE VIRGINIAN—
the Aristocrat of Cord Tires

Applicant disclaims the words "Cord Tires" apart from the mark as shown in the drawing.
Particular description of goods.—Pneumatic Tires.
Claims use since June 5, 1923.

Ser. No. 186,132. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. S. IVINS' SON, INC., Philadelphia, Pa. Filed Sept. 24, 1923.

SWEET MARIE

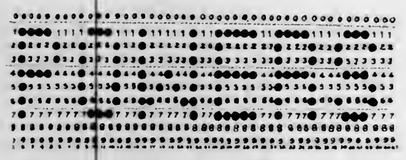
Particular description of goods.—Cookies.
Claims use since Jan. 1, 1898.

Ser. No. 186,140. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE H. D. LEE FLOUR MILLS COMPANY, Salina, Kans. Filed Sept. 24, 1923.

BLENDERS
CHOICE

Particular description of goods.—Plain Flour.
Claims use since July 28, 1923.

Ser. No. 186,156. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) POWERS ACCOUNTING MACHINE CORPORATION, New York, N. Y. Filed Sept. 24, 1923.



Particular description of goods.—Adding, Listing, Calculating, and Bookkeeping Machines—Namely, Punchers, Sorters, and Tabulators.
Claims use since Sept. 5, 1923, on punching machines; since Sept. 7, 1923, on sorting machines; since Sept. 12, 1923, on tabulating machines.

Ser. No. 186,165. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GEO. M. STOWE, Jr., Buffalo, N. Y. Filed Sept. 24, 1923.

MULTIBLASTER

Particular description of goods.—Spraying Devices for Paint, Sand, and Cleaning Solutions.
Claims use since Mar. 8, 1923.

Ser. No. 186,174. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FILIPPO ZICHELLO, New York, N. Y. Filed Sept. 24, 1923.



FASCIO

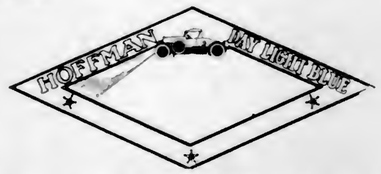
Particular description of goods.—Olive Oil and Macaroni.
Claims use since Feb. 15, 1923.

Ser. No. 186,206. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed Sept. 25, 1923.

№33

Particular description of goods.—Playing Cards.
Claims use since about 1886.

Ser. No. 186,222. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DOERING MANUFACTURING COMPANY, Chicago, Ill. Filed Sept. 26, 1923.



No claim made to exclusive right to the use of the words "Day Light Blue" apart from the mark shown in the drawing.
Particular description of goods.—Automobile or Vehicle Electric Lamps.
Claims use since on or about July 1, 1923.

Ser. No. 186,263. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE AMERICAN RUST PROOF CO. INC., New York, N. Y. Filed Sept. 27, 1923.

Vatu

Particular description of goods.—Composition for Treating Metallic Surfaces to Prevent Rust.
Claims use since Aug. 1, 1923.

Ser. No. 186,291. (CLASS 15. OILS AND GREASES.) PURITAN OIL CORPORATION, St. Louis, Mo. Filed Sept. 27, 1923.



The lining in the drawing indicating the color red.
Particular description of goods.—Gasoline.
Claims use since July 1, 1923.

Ser. No. 186,312. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) B. F. AVERY & SONS, Louisville, Ky. Filed Sept. 28, 1923.

RED TAG

Particular description of goods.—Cultivator Sweeps.
Claims use since Sept. 12, 1922.

Ser. No. 186,317. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) COOK ELECTRIC COMPANY, Chicago, Ill. Filed Sept. 28, 1923.

IDEAL

Particular description of goods.—Nutcrackers.
Claims use since June 1, 1915.

Ser. No. 186,334. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SHAFFER STORES COMPANY, Altoona, Pa. Filed Sept. 28, 1923.

MIAMA

Particular description of goods.—Canned Corn and Peas.
Claims use since Apr. 1, 1923.

Ser. No. 186,361. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE FRINK CREAMERY COMPANY, Larkspur, Colo. Filed Sept. 29, 1923.

FRICRECO CHEESE

No claim is made to the exclusive use of the word "Cheese."
Particular description of goods.—Cheese.
Claims use since May, 1923.

Ser. No. 186,400. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) R. B. WARD & CO., INC., Los Angeles, Calif. Filed Sept. 29, 1923.

Kalo Kake

Applicant disclaims any exclusive right to the word "Kake" apart from the other features of the mark shown in the drawing.
Particular description of goods.—Cake.
Claims use since on or about Sept. 18, 1923.

Ser. No. 186,407. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) CHARLES B. BABCOCK, doing business as C. B. Babcock Company, San Francisco, Calif. Filed Oct. 1, 1923.



Particular description of goods.—Gas Furnaces, Gas-Fired Steam Boilers, Industrial Furnaces, Gas Ranges, Gas Heating Stoves, and Water Heaters.
Claims use since Sept. 12, 1921.

Ser. No. 186,424. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MILAN R. FORKAPA, doing business as M. R. Forkapa & Company, Cleveland, Ohio. Filed Oct. 1, 1923.

SPOOKY CASTLE

Particular description of goods.—Question and Answer Toy.
Claims use since about Sept. 24, 1923.

Ser. No. 186,439. (CLASS 37. PAPER AND STATIONERY.) MILTON BRADLEY COMPANY, Springfield, Mass. Filed Oct. 1, 1923.

Economo

Particular description of goods.—Crayons of Various Colors.
Claims use since May, 1916.

Ser. No. 186,464. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CHANDLER AND RUDD COMPANY, Cleveland, Ohio. Filed Oct. 2, 1923.

GOLD RIBBON

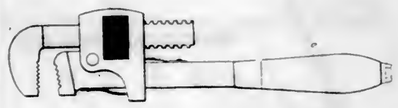
Particular description of goods.—Candy.
Claims use since Nov. 1, 1922.

Ser. No. 186,470. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF. FRANKLIN AIR COMPRESSOR WORKS, Norristown and Trooper, Pa. Filed Oct. 2, 1923.

Super Single Stage

No claim is made to the words "Single Stage" apart from the mark shown by the drawing.
Particular description of goods.—Air Compressors.
Claims use since Sept. 5, 1923.

Ser. No. 186,474. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HENRY & ALLEN, Auburn, N. Y. Filed Oct. 2, 1923.



No claim made to the representation of the wrench apart from the mark shown. The lining on the drawing expresses red. The drawing consists of a red-colored coating applied to the adjusting nut of the goods.
Particular description of goods—Wrenches.
Claims use since July 17, 1923.

Ser. No. 186,504. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GREAT STATES CORPORATION, Richmond, Ind. Filed Oct. 3, 1923.

GREAT STATES

Particular description of goods.—Water Circulator for Cooling Systems for Gasoline Engines for Autos.
Claims use since on or about Mar. 13, 1923.

Ser. No. 186,568. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) RAU FASTENER COMPANY, New York, N. Y. Filed Oct. 4, 1923.

R F O C

Particular description of goods.—Snap Fasteners for Gloves, Caps, Trunks, Suspenders, Pocketbooks, Bags, Garments, and Automobile Accessories.
Claims use since January, 1915.

Ser. No. 186,578. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ARISTON METAL COMPANY, INC., New York, N. Y. Filed Oct. 5, 1923.

ARISTON

Particular description of goods.—Bearing Metal.
Claims use since Mar. 1, 1923.

Ser. No. 186,583. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BENJAMIN ELECTRIC MANUFACTURING COMPANY, Chicago, Ill. Filed Oct. 5, 1923.

Localet

Particular description of goods.—Electrical Lighting-Fixture Clusters Having Two or More Outlets.
Claims use since about May 28, 1923.

Ser. No. 186,618. (CLASS 37. PAPER AND STATIONERY.) A. EMIL SKOOG, New York, N. Y. Filed Oct. 5, 1923.

PROTEST SAFETY

Particular description of goods.—Checks, Bonds, Securities, and Writing and Printing Paper.
Claims use since Sept. 13, 1923.

Ser. No. 186,620. (CLASS 39. CLOTHING.) ABRAHAM & STRAUS, INC., Brooklyn, N. Y. Filed Oct. 6, 1923.

ABRAST

Particular description of goods.—Corsets.
Claims use since Dec. 1, 1906.

Ser. No. 186,623. (CLASS 7. CORDAGE.) THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio. Filed Oct. 6, 1923.



TIGER BRAND

No claim is made herein to the registration of the word "Brand" and the picture of a reel of wire rope apart from the mark shown in the drawing.
Particular description of goods.—Cordage.
Claims use since July 27, 1923.

Ser. No. 186,629. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) WALTER BOYT COMPANY, INC., Des Moines, Iowa. Filed Oct. 6, 1923.

BOYT

Particular description of goods.—Harness, Harness Parts, Nets, and Sweat Pads for Horses.
Claims use since 1903.

Ser. No. 186,630. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THOMAS COVER, Jr., doing business as Cover & Company, Philadelphia, Pa. Filed Oct. 6, 1923.

CONTINENTAL OAK



The word "Philadelphia" is disclaimed apart from the remainder of the mark as shown on the drawing.
Particular description of goods.—Sole Leather.
Claims use since Aug. 1, 1922.

Ser. No. 186,653. (CLASS 39. CLOTHING.) F. MAYER BOOT & SHOE CO., Milwaukee, Wis. Filed Oct. 6, 1923.

ON-WE-GO

Particular description of goods.—Leather Shoes.
Claims use since Aug. 25, 1923.

Ser. No. 186,666. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PORTAGE WHOLESALE GROCERY COMPANY, Portage, Wis. Filed Oct. 6, 1923.

AUNT SALLY

Particular description of goods.—Canned Vegetables, Canned Fruits, Pancake Flour, Fruit Jellies, and Fruit Jams.
Claims use since May, 1921.

Ser. No. 186,675. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SCHOEN & YONDORF CO. INC., New York, N. Y. Filed Oct. 6, 1923.

My Bunny Boy

Particular description of goods.—Dolls.
Claims use since about Aug. 10, 1923.

Ser. No. 186,676. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SCHOEN & YONDORF CO. INC., New York, N. Y. Filed Oct. 6, 1923.

Teddy in Boots

Particular description of goods.—Dolls.
Claims use since about Aug. 10, 1923.

Ser. No. 186,688. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BEST FOODS, INC., New York, N. Y. Filed Oct. 8, 1923.

FILBISK

Particular description of goods.—Hydrogenated Coconut Oil Used in the Production of Confections, Cakes, Pastries, Vegetable Butters, and for Other Culinary Purposes.
Claims use since Apr. 23, 1923.

Ser. No. 186,689. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BEST FOODS, INC., New York, N. Y. Filed Oct. 8, 1923.

FIRNEX

Particular description of goods.—Hydrogenated Vegetable Oil Used in the Manufacture of Confectionery Products.
Claims use since Apr. 5, 1922.

Ser. No. 186,695. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE COLEMAN LAMP COMPANY, Wichita, Kans. Filed Oct. 8, 1923.

Q 99

Particular description of goods.—Gas Generators.
Claims use since Oct. 1, 1921.

Ser. No. 186,745. (CLASS 37. PAPER AND STATIONERY.) FORT HOWARD PAPER COMPANY, Green Bay, Wis. Filed Oct. 9, 1923.

MAID of the FOREST

Particular description of goods.—Toilet Paper, Paper Napkins, Paper Towels, and Paper Tablecloths.
Claims use since Mar. 17, 1923.

Ser. No. 186,757. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PIROXLOID PRODUCTS CORPORATION, New York, N. Y. Filed Oct. 9, 1923.



The dress of the mandarin and the bird shown being indicated partly in red, the Japanese wording translated meaning "North," "South," "East," and "West."
Particular description of goods.—Chinese Game Played with Pieces Somewhat Similar to Dominoes.
Claims use since July, 1923.

Ser. No. 186,773. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CHANDLER MOTOR CAR COMPANY, Cleveland, Ohio. Filed Oct. 10, 1923.

TRAFFIC

Particular description of goods.—Speed-Changing Transmission Gearing for Motor Vehicles.
Claims use since Sept. 28, 1923.

Ser. No. 186,844. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) KIMBLE ELECTRIC COMPANY, Chicago, Ill. Filed Oct. 11, 1923.

KIMBLE MOTORS

No claim is made to the exclusive use of the word "Motors" apart from the trade-mark shown on the drawing.
Particular description of goods.—Electric Motors.
Claims use since about July 16, 1913.

Ser. No. 186,866. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BRADLEY-WISE PAINT COMPANY, Los Angeles, Calif. Filed Oct. 12, 1923.



Particular description of goods.—Dry, Paste, and Ready-Mixed Paints; Varnishes, Paint Enamels, Dry Pigment, Lacquers, Lead in Oil, Zinc in Oil, Linseed Oil and Substitutes, Turpentine, Calcimine, Varnish Stains, Oil Stains.
Claims use since April, 1921.

Ser. No. 186,874. (CLASS 37. PAPER AND STATIONERY.) THE DIEM & WING PAPER CO., Cincinnati, Ohio. Filed Oct. 12, 1923.

AERIE BOND

No claim is made to the word "Bond" except in connection with the balance of the mark.
Particular description of goods.—Bond Paper.
Claims use since Nov. 14, 1917.

Ser. No. 186,876. (CLASS 37. PAPER AND STATIONERY.) THE DIEM & WING PAPER CO., Cincinnati, Ohio. Filed Oct. 12, 1923.

CHARMANT BOND

No claim is made to the word "Bond" except in connection with the balance of the mark.
Particular description of goods.—Bond Paper.
Claims use since 1921.

Ser. No. 186,880. (CLASS 37. PAPER AND STATIONERY.) THE DIEM & WING PAPER CO., Cincinnati, Ohio. Filed Oct. 12, 1923.

PERFECTION



No claim made to the word "Perfection" except in connection with the rest of the mark.
Particular description of goods.—Blasting Paper.
Claims use since January, 1912.

Ser. No. 186,888. (CLASS 17. TOBACCO PRODUCTS.) OTTO EISENLOHR & BROS. INCORPORATED, Philadelphia, Pa. Filed Oct. 12, 1923.



The lining shown in the drawing indicates shading and not any particular color scheme.
Particular description of goods.—Cigars.
Claims use since Feb. 3, 1923.

Ser. No. 186,892. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 12, 1923.

Radiella

Particular description of goods.—Woolen Piece Goods.
Claims use since Sept. 1, 1923.

Ser. No. 186,895. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 12, 1923.

Smetana

Particular description of goods.—Woolen Piece Goods.
Claims use since Aug. 15, 1923.

Ser. No. 186,896. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 12, 1923.

Angola

Particular description of goods.—Woolen Piece Goods.
Claims use since Aug. 15, 1923.

Ser. No. 186,897. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 12, 1923.

Tanya

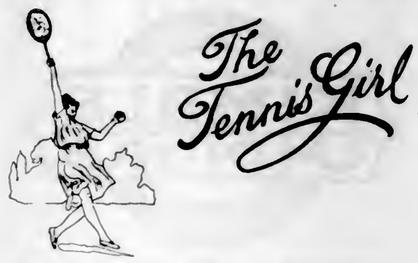
Particular description of goods.—Woolen Piece Goods.
Claims use since Aug. 15, 1923.

Ser. No. 186,915. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JACK KLEIN, doing business as J. Klein Co., New York, N. Y. Filed Oct. 12, 1923.



Particular description of goods.—Handkerchiefs.
Claims use since Aug. 1, 1923.

Ser. No. 186,916. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JACK KLEIN, doing business as J. Klein Co., New York, N. Y. Filed Oct. 12, 1923.



Particular description of goods.—Handkerchiefs.
Claims use since Aug. 1, 1923.

Ser. No. 186,918. (CLASS 12. CONSTRUCTION MATERIALS.) THE MCCALLUM COMPANY, INC., Pittsburgh, Pa. Filed Oct. 12, 1923.

PUTTIUM

Particular description of goods.—Glazing Cement.
Claims use since Sept. 30, 1921.

Ser. No. 186,934. (CLASS 17. TOBACCO PRODUCTS.) HERMAN SIEBENMORGEN, Olney, Ill. Filed Oct. 12, 1923.

SAM HILL

Particular description of goods.—Cigars.
Claims use since July 1, 1904.

Ser. No. 186,944. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) HAROLD B. CANAVELLO, New York, N. Y. Filed Oct. 13, 1923.

BUTTERFLY VANITIES

No claim is made to the word "Vanities" apart from the mark shown on the drawing.
Particular description of goods.—Vanity Boxes.
Claims use since November, 1922.

Ser. No. 186,953. (CLASS 37. PAPER AND STATIONERY.) FORT HOWARD PAPER COMPANY, Green Bay, Wis. Filed Oct. 13, 1923.

SNOBLOOM

Particular description of goods.—Toilet Paper, Paper Napkins, Paper Towels, and Paper Tablecloths.
Claims use since Nov. 2, 1922.

Ser. No. 186,959. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LUMEN BEARING COMPANY, Buffalo, N. Y. Filed Oct. 13, 1923.

LOTUS

Particular description of goods.—Bearing Metal.
Claims use since about 1903.

Ser. No. 186,969. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) EDWARD W. SOFTLEY, Butte, Mont. Filed Oct. 13, 1923.

SOFTLEY'S
SUPE-R-SHINE

The lining on the drawing represents shading only.
Particular description of goods.—A Liquid Polishing Preparation for Automobiles, Pianos, Victrolas, Furniture, Office Fixtures, Safes, Cabinets, Sewing Machines, and All Fine Woodwork.
Claims use since Aug. 1, 1923.

Ser. No. 187,013. (CLASS 17. TOBACCO PRODUCTS.) A. E. MCCALL, doing business as McCall Cigar Company, Kansas City, Mo. Filed Oct. 15, 1923.

MIAFA

SYMWAO

Particular description of goods.—Cigars.
Claims use since Apr. 23, 1923.

Ser. No. 187,018. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES J. RICK, doing business as Health Food Distributing Company, New York, N. Y. Filed Oct. 15, 1923.

VITALIFE

Particular description of goods.—Yeast Extract.
Claims use since Sept. 28, 1923.

Ser. No. 187,050. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE HALL PROJECTOR COMPANY, INC., East Boston, Mass. Filed Oct. 16, 1923.

CELLO

Particular description of goods.—Motion-Picture Projectors.
Claims use since about July 25, 1923.

Ser. No. 187,051. (CLASS 12. CONSTRUCTION MATERIALS.) HANAWALT SPAULDING COMPANY, Los Angeles, Calif. Filed Oct. 16, 1923.

GREO-KURED

Particular description of goods.—Stained Wooden Shingles.
Claims use since Sept. 28, 1923.

Ser. No. 187,058. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HUNT BROTHERS PACKING COMPANY, San Francisco, Calif. Filed Oct. 16, 1923.



Particular description of goods.—Canned Fruits, Canned Vegetables, Dried Fruits, and Canned Fish.
Claims use since 1903.

Ser. No. 187,069. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) SPECTRO-ELECTRONIC FOUNDATION, New York, N. Y. Filed Oct. 16, 1923.

Bio-IACTOS

Particular description of goods.—Electronic Therapeutic Apparatus for the Treatment of Various Diseases.
Claims use since Aug. 27, 1923.

Ser. No. 187,084. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Oct. 17, 1923.

Lampress

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Sept. 13, 1923.

Ser. No. 187,097. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) EASTMAN KODAK COMPANY, Rochester, N. Y. Filed Oct. 17, 1923.

KODEX

Particular description of goods.—Photographic Shutters.
Claims use since Oct. 12, 1923.

Ser. No. 187,150. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CONCENTRATED PRODUCTS CORPORATION, Carlstadt, N. J., and New York, N. Y. Filed Oct. 18, 1923.

GARZA AZUL

Particular description of goods.—Laundry Soap.
Claims use since October, 1922.

Ser. No. 187,159. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PAUL L. GRAF, New York, N. Y. Filed Oct. 18, 1923.

"ALMA"

Particular description of goods.—Hair Nets.
Claims use since January, 1920.

Ser. No. 187,175. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SANTA CRUZ COAST VEGETABLE CO., Santa Cruz, Calif. Filed Oct. 18, 1923.

OCEAN MIST

Particular description of goods.—Fresh Boxed Artichokes.
Claims use since Oct. 8, 1923.

Ser. No. 187,208. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Oct. 19, 1923.

FLOSSMORE

Particular description of goods.—Silk Piece Goods.
Claims use since Sept. 1, 1923.

Ser. No. 187,209. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Oct. 19, 1923.

SATIN SABA

No rights are asserted to the exclusive use of the word "Satin" apart from the trade-mark shown in the drawing.
Particular description of goods.—Silk Piece Goods.
Claims use since Sept. 1, 1923.

Ser. No. 187,226. (CLASS 17. TOBACCO PRODUCTS.) LARUS & BROTHER COMPANY, Richmond, Va. Filed Oct. 19, 1923.



All printed words with the exception of the words "Edgeworth" and "Larus & Brother Co." and the representation of the goods are hereby disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Smoking Tobacco.
Claims use since Aug. 23, 1923.

Ser. No. 187,229. (CLASS 39. CLOTHING.) SCHACHT RUBBER MFG. CO., Huntington, Ind. Filed Oct. 19, 1923.



Particular description of goods.—Rubber Heels.
Claims use since about Aug. 1, 1923.

Ser. No. 187,234. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN WANAMAKER PHILADELPHIA, Philadelphia, Pa. Filed Oct. 19, 1923.

Charme d'Amour

Particular description of goods.—Soaps.
Claims use since Nov. 1, 1917.

Ser. No. 187,239. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AMERICAN GLUE COMPANY, Boston, Mass. Filed Oct. 20, 1923.

LUMINOX

Particular description of goods.—Sandpapers and Sand Cloths.
Claims use since Oct. 13, 1923.

Ser. No. 187,242. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) F. A. BOCHMANN & CO. INC., Philadelphia, Pa. Filed Oct. 20, 1923.

BACTRIAN

Particular description of goods.—Worsted and Woolen Dress Goods Manufactured in the Piece.
Claims use since Mar. 22, 1923.

Ser. No. 187,243. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) F. A. BOCHMANN & CO. INC., Philadelphia, Pa. Filed Oct. 20, 1923.

CAMELUS

Particular description of goods.—Worsted and Woolen Dress Goods Manufactured in the Piece.
Claims use since Mar. 22, 1923.

Ser. No. 187,252. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THOMAS B. M. GATES, New York, N. Y. Filed Oct. 20, 1923.

"BANDONETTE"

Particular description of goods.—Sport Hair Nets.
Claims use since May 24, 1923.

Ser. No. 187,257. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOUBIGANT, INC., New York, N. Y. Filed Oct. 20, 1923.

SUBTILITÉ

Particular description of goods.—Perfume, Toilet Water, Face Powder, Talcum Powder, Sachet, Brilliantine, Face Cream, Rouge, Lotion for the Skin and Hair, and Bath Salts.
Claims use since Oct. 11, 1923.

Ser. No. 187,268. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GEORGE H. SHINN CO., INC., Philadelphia, Pa. Filed Oct. 20, 1923.

CHOCLA-MELLOWS

Particular description of goods.—Candy.
Claims use since Feb. 30, 1922.

Ser. No. 187,291. (CLASS 7. CORDAGE.) BLAKE, MOFFITT & TOWNE, San Francisco, Calif. Filed Oct. 22, 1923.

BEAR

Particular description of goods.—Twine.
Claims use since January, 1913.

Ser. No. 187,310. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GROSSMAN BROS. & REA, INC., Seattle, Wash. Filed Oct. 22, 1923.



Particular description of goods.—Fresh Apples.
Claims use since July 15, 1923.

Ser. No. 187,322. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SALVATOR LONGO, doing business as The Sanatone Co., Brooklyn, N. Y. Filed Oct. 22, 1923.

KEWPIE LAX

Particular description of goods.—Laxative in Candy Form.
Claims use since about June 15, 1923.

Ser. No. 187,333. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAYBELLINE COMPANY, INC., Chicago, Ill. Filed Oct. 22, 1923.

Maybelline

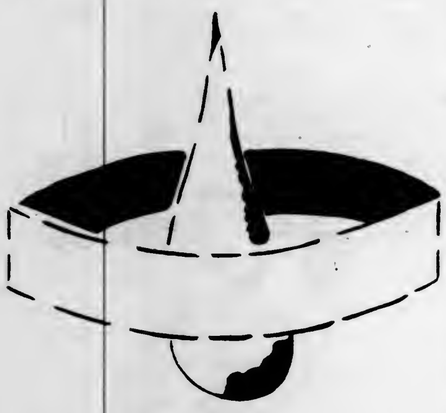
Particular description of goods.—Darkener for Eyebrows and Eyelashes.
Claims use since about May 5, 1920.

Ser. No. 187,336. (CLASS 15. OILS AND GREASES.) MOTOL LUBRICANTS CORPORATION, New York, N. Y. Filed Oct. 22, 1923.

NOVOL

Particular description of goods.—Motor Oil.
Claims use since Sept. 5, 1923.

Ser. No. 187,337. (CLASS 15. OILS AND GREASES.) MOTOL LUBRICANTS CORPORATION, New York, N. Y. Filed Oct. 22, 1923.



Particular description of goods.—Motor Oil.
Claims use since Sept. 5, 1923.

Ser. No. 187,340. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OREGON CANNING COMPANY, Portland, Oreg. Filed Oct. 22, 1923.

OREGON TRAIL

Particular description of goods.—Canned Fruits and Canned Berries.
Claims use since May 1, 1923.

Ser. No. 187,347. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROCHELLE CANNERIES, INC., Rochelle, Ill. Filed Oct. 22, 1923.

CAPTAIN KIDD

Particular description of goods.—Canned Vegetables.
Claims use since July, 1921.

Ser. No. 187,371. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMERICAN DRUGGISTS SYNDICATE, Long Island City, N. Y. Filed Oct. 23, 1923.



The drawing shows a portion of a wrapper for a box, carton, or bottle adapted to contain the goods.
Particular description of goods.—Perfumes, Toilet Waters, Face Cream, Rouge, Lip Sticks, Powders, and Compacts.
Claims use since Oct. 1, 1923.

Ser. No. 187,375. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN W. DARLEY, doing business as Dreams Co., Baltimore, Md. Filed Oct. 23, 1923.

DREAMS

Particular description of goods.—Incense and Incense Candles.
Claims use since Mar. 12, 1923

Ser. No. 187,384. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARTHUR PARKER, Cairo, Ill. Filed Oct. 23, 1923.

PARKER'S PRESCRIPTION

14225

Particular description of goods.—Preparation for the Treatment of Kidneys and Liver.
Claims use since Jan. 1, 1923.

Ser. No. 187,385. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) L. T. PIVER, INC., Wilmington, Del., and New York, N. Y. Filed Oct. 23, 1923.

VOLT

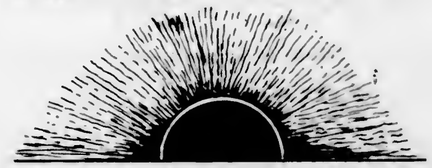
Particular description of goods.—Perfume and Face Powder.
Claims use since December, 1922.

Ser. No. 187,394. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. SWANSTON & SON, Sacramento, Calif. Filed Oct. 23, 1923.



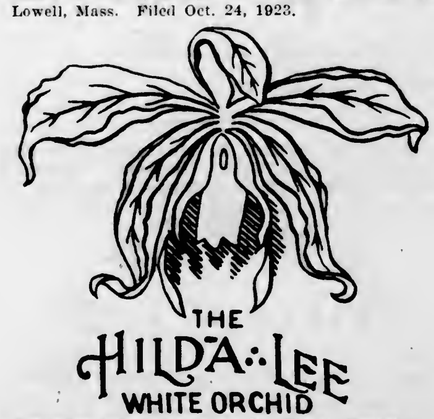
Particular description of goods.—Smoked Meats, Boiled Ham, and Lard.
Claims use since Apr. 1, 1922.

Ser. No. 187,403. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS HENRY BAREKMAN, Paris, Ill. Filed Oct. 24, 1923.



Particular description of goods.—Medicinal Preparation for Barber's Itch.
Claims use since August, 1922.

Ser. No. 187,408. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HILDA L. DREW, doing business as The Hilda Lee, Lowell, Mass. Filed Oct. 24, 1923.



Particular description of goods.—Tissue Creams.
Claims use since 1915.

Ser. No. 187,412. (CLASS 37. PAPER AND STATIONERY.) FEDERAL ENVELOPE MFG. CO., Omaha, Nebr. Filed Oct. 24, 1923.



TRADE MARK

The undersigned hereby disclaims any property in the words "Envelopes," "Omaha," and "Trade-Mark" shown in the accompanying drawing.
Particular description of goods.—Envelopes.
Claims use since Aug. 4, 1923.

Ser. No. 187,420. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HEATHER COMPANY, New York, N. Y. Filed Oct. 24, 1923.

SUNMADE

Particular description of goods.—Face Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, and Sachet Powders.
Claims use since May 1, 1923.

Ser. No. 187,422. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HEATHER COMPANY, New York, N. Y. Filed Oct. 24, 1923.

OR-AMBER

Particular description of goods.—Face Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, and Sachet Powders.
Claims use since June 28, 1923.

Ser. No. 187,424. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS KERFOOT & CO., LIMITED, Bardsley, England Filed Oct. 24, 1923.

VAPEX

Particular description of goods.—Inhalant for the Relief of Cold in the Head and the Like.
Claims use since July 7, 1923.

Ser. No. 187,469. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LAWRENCE SALES CO., Poughkeepsie, N. Y. Filed Oct. 25, 1923.

'REX'

Particular description of goods.—Bottle Cappers and Corkers.
Claims use since Sept. 15, 1921.

Ser. No. 187,479. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE J. M. NEY COMPANY, Hartford, Conn. Filed Oct. 25, 1923.

DIALOY

Particular description of goods.—Low-Fusing Metal Alloy.
Claims use since Sept. 25, 1923.

Ser. No. 187,488. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLORENCE ST. ANA, Detroit, Mich. Filed Oct. 25, 1923.



Particular description of goods.—Facial Bleach and Beauty Pack.
Claims use since Oct. 17, 1923.

Ser. No. 187,508. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CELITE PRODUCTS COMPANY, Los Angeles, Calif. Filed Oct. 26, 1923.

SUPER-CEL

The mark consists of the word symbol "Super-Cel."
Particular description of goods.—Finely-Divided Solid Material Having Selected Adsorptive Properties to be Used in Alding Filtration and in Demulsification of Liquids.
Claims use since Feb. 2, 1923.

Ser. No. 187,536. (CLASS 12. CONSTRUCTION MATERIALS.) QUIGLEY FURNACE SPECIALTIES COMPANY, INCORPORATED, New York, N. Y. Filed Oct. 26, 1923.

ACITITE

Particular description of goods.—Acid-Resisting Cement.
Claims use since June 27, 1923.

Ser. No. 187,541. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROUBAIX MILLS, INC., Clinton, Mass., and New York, N. Y. Filed Oct. 26, 1923.

Roubaiyat

Particular description of goods.—Piece Goods Made of Wool.
Claims use since on or about Oct. 1, 1923.

Ser. No. 187,544. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SEYLER MEDICINE CO., Cincinnati, Ohio. Filed Oct. 26, 1923.

IODOMETH

Particular description of goods.—Medicine for Cuts, Burns, Sores, and Bruises.
Claims use since Sept. 28, 1923.

Ser. No. 187,546. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SUSSFELD, LORSCH & SCHIMMEL, New York, N. Y. Filed Oct. 26, 1923.

CHAMPIERE

Particular description of goods.—Field and Opera Glasses.
Claims use since Apr. 6, 1923.

Ser. No. 187,547. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SUSSFELD, LORSCH & SCHIMMEL, New York, N. Y. Filed Oct. 26, 1923.

SPORTIERE

Particular description of goods.—Field and Opera Glasses.
Claims use since Apr. 6, 1923.

Ser. No. 187,548. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SUSSFELD, LORSCH & SCHIMMEL, New York, N. Y. Filed Oct. 26, 1923.

EUREKASCOPE

Particular description of goods.—Field and Opera Glasses.
Claims use since Sept. 11, 1923.

Ser. No. 187,562. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHLOROPHEN CHEMICAL CO. INC., Elkins, W. Va. Filed Oct. 27, 1923.

ORAFENE

R. & S.

Particular description of goods.—General Antiseptic.
Claims use since Jan. 10, 1923.

Ser. No. 187,569. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARLOS J. DIAZ, doing business as Les Parfums Des Courtisanes, New York, N. Y. Filed Oct. 27, 1923.

SALAMBÔ

Particular description of goods.—Face Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, and Sachet Powders.
Claims use since Oct. 10, 1923.

Ser. No. 187,570. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARLOS J. DIAZ, doing business as Les Parfums Des Courtisanes, New York, N. Y. Filed Oct. 27, 1923.

DES

COURTISANES

Particular description of goods.—Face Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, and Sachet Powders.
Claims use since Oct. 10, 1923.

Ser. No. 187,572. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 27, 1923.

Moskova

Particular description of goods.—Woolen Piece Goods.
Claims use since 1913.

Ser No. 187,573. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 27, 1923.

Beatrice

Particular description of goods.—Woolen Piece Goods.
Claims use since 1907.

Ser. No. 187,575. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 27, 1923.

Imperatrice

Particular description of goods.—Woolen Piece Goods.
Claims use since 1906.

Ser. No. 187,586. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MORTON BROTHERS INC., New York, N. Y. Filed Oct. 27, 1923.

VALENO-FABRICS

No claim is made to the exclusive use of the word "Fabrics" apart from the mark as shown in the drawing.
Particular description of goods.—Upholstery and Drapery Textile Fabrics of Wool, Silk, Cotton, Artificial Silk, and Mixtures of Same.
Claims use since Oct. 20, 1923.

Ser. No. 187,621. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ADA BELLE GRAY, Kansas City, Mo. Filed Oct. 29, 1923.

Edare E-D-L

Particular description of goods.—Cold, Bleaching, and Vanishing Cream, Complexion Bags, and Hand Lotion.
Claims use since November, 1922.

Ser. No. 187,623. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HEATHER COMPANY, New York, N. Y. Filed Oct. 29, 1923.

Plastiko

Particular description of goods.—Face Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, and Sachet Powders.
Claims use since 1910.

Ser. No. 187,645. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. D. SEARLE AND COMPANY, Chicago, Ill. Filed Oct. 29, 1923.

ORAPAIN

Particular description of goods.—Nerve Depressant.
Claims use since Jan. 17, 1923.

Ser. No. 187,646. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) LEMUEL J. SHARP, doing business as Paracide Co., Commerce, Ga. Filed Oct. 29, 1923.

PARACIDE

Particular description of goods—Remedy for Itch.
Claims use since Aug. 22, 1923.

Ser. No. 187,656. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) ALEXANDER A. ANZELL, doing business as Specialty Manufacturing Company, Brooklyn, N. Y. Filed Oct. 30, 1923.

SEE RITE

Particular description of goods.—Dental, Optical, and Surgical Mirrors, Head Mirrors, Laryngeal Mirrors, and Retinoscopes.
Claims use since Apr. 25, 1923.

Ser. No. 187,679. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) WILLIAM H. JARDINE, Philadelphia, Pa. Filed Oct. 30, 1923.

XIT

Particular description of goods.—Ventilators.
Claims use since about Oct. 16, 1923.

Ser. No. 187,687. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JACOB MILLER'S SONS Co., Philadelphia, Pa. Filed Oct. 30, 1923.

SILVERAY

Particular description of goods.—Cotton Goods, Silk Goods, Linen Goods, and Mixtures of Cotton and Silk and Linen and Silk, All in the Piece.
Claims use since July 19, 1923.

Ser. No. 187,688. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JACOB MILLER'S SONS Co., Philadelphia, Pa. Filed Oct. 30, 1923.

STURDEETEX

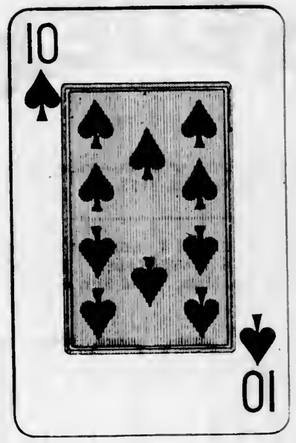
Particular description of goods.—Cotton Goods, Silk Goods, Linen Goods, and Mixtures of Cotton and Silk and Linen and Silk, All in the Piece.
Claims use since Oct. 12, 1923.

Ser. No. 187,701. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ANDREW E. TZIFAKIS, doing business as The Hermo Products Company, New York, N. Y. Filed Oct. 30, 1923.

Hermes

Particular description of goods.—Castile Soap.
Claims use since about Oct. 25, 1923.

Ser. No. 187,704. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed Oct. 30, 1923.



No claim made to the exclusive right to the use of the number "10," the "spades" designating characters, or the representation of the card apart from the mark shown. The drawing is lined to indicate shading, not to indicate any particular color.
Particular description of goods.—Playing Cards.
Claims use since about Apr. 27, 1895.

Ser. No. 187,710. (CLASS 12. CONSTRUCTION MATERIALS.) CALIFELT INSULATION MFG. CO., Los Angeles, Calif. Filed Oct. 31, 1923.

CALIFELT

Particular description of goods.—Insulating Material for Walls, Box Cars, Refrigerator Cars, and Refrigerators.
Claims use since Sept. 16, 1923.

Ser. No. 187,792. (CLASS 15. OILS AND GREASES.) THE BENZOL MOTOR FUEL COMPANY, Akron, Ohio. Filed Nov. 1, 1923.

BENZOCO

Particular description of goods.—Fuel for Internal-Combustion Engines and the Like.
Claims use since Oct. 13, 1923.

Ser. No. 187,864. (CLASS 37. PAPER AND STATIONERY.) J. HARRIS & COMPANY, New York, N. Y. Filed Nov. 2, 1923.

University Self Filling Fountain Pen

The words "Self Filling Fountain Pen" are disclaimed apart from the remainder of the mark.
Particular description of goods.—Fountain Pens.
Claims use since Jan. 6, 1923.

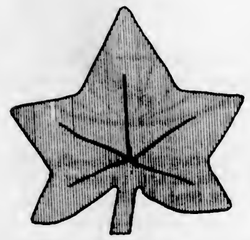
Ser. No. 187,875. (CLASS 7. CORDAGE.) THE NITRAM MANUFACTUAING CO., East Orange, N. J., and New York, N. Y. Filed Nov. 2, 1923.

GLENDAIL

Particular description of goods.—Linen Broom Twine.
Claims use since Sept. 15, 1923.

Ser. No. 187,892. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN WANAMAKER PHILADELPHIA, Philadelphia, Pa. Filed Nov. 2, 1923.

REDLEAF



Drawing is lined to indicate the color red.
Particular description of goods.—Soaps.
Claims use since Aug. 31, 1923.

Ser. No. 187,899. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN SEXTON AND COMPANY, Chicago, Ill. Filed Nov. 1, 1923.

PRIDE OF THE WEST

Particular description of goods.—Washing and Scouring Soap.
Claims use since about 1903.

Ser. No. 187,970. (CLASS 37. PAPER AND STATIONERY.) THE TONGUE-TYER CLIP CO., Bristol, Conn. Filed Nov. 3, 1923.

TONGUE-TYERS

Particular description of goods.—Clips.
Claims use since Oct. 12, 1922.

Ser. No. 188,002. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HENRY DISSTON & SONS, INCORPORATED, Tacony, Philadelphia, Pa. Filed Nov. 5, 1923.

DURAFLEX

Particular description of goods.—Saws.
Claims use since about Jan. 4, 1923.

Ser. No. 188,008. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRENCH CHEMICAL COMPANY, Rochester, N. Y. Filed Nov. 5, 1923.



Particular description of goods.—Cleaning Preparation for Kitchen, Household, and Laundry Uses.
Claims use since Sept. 5, 1923.

Ser. No. 188,019. (CLASS 2. RECEPTACLES.) THE LE MONTREE MANUFACTURING COMPANY, Cincinnati, Ohio. Filed Nov. 5, 1923.

REDEX

Particular description of goods.—Paper Bags.
Claims use since Oct. 24, 1923.

Ser. No. 188,104. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BAEDER ADAMSON COMPANY, Boston, Mass. Filed Nov. 8, 1923.

BACOTE

Particular description of goods.—Flint Paper and Flint Cloth, Garnet Paper and Garnet Cloth, Emery Paper and Emery Cloth, Artificial Abrasive Paper and Cloth.
Claims use since June 28, 1923.

Ser. No. 188,125. (CLASS 37. PAPER AND STATIONERY.) E. E. LLOYD PAPER COMPANY, Chicago, Ill. Filed Nov. 8, 1923.

Commerce

Particular description of goods.—Writing Paper.
Claims use since January, 1909.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

DECEMBER 25, 1923.

177,610. BREAD. WARD BAKING COMPANY, New York, N. Y.
Filed June 30, 1923. Serial No. 182,688. PUBLISHED OCTOBER 2, 1923.

177,611. BREAD. WARD BAKING COMPANY, New York, N. Y.
Filed June 30, 1923. Serial No. 182,687. PUBLISHED OCTOBER 2, 1923.

177,612. ELECTRICAL COOKING APPARATUS. THE APEX ELECTRICAL MANUFACTURING COMPANY, Cleveland, Ohio.
Filed June 30, 1923. Serial No. 182,641. PUBLISHED SEPTEMBER 18, 1923.

177,613. ELECTRICAL COOKING APPARATUS. THE APEX ELECTRICAL MANUFACTURING COMPANY, Cleveland, Ohio.
Filed June 30, 1923. Serial No. 182,640. PUBLISHED SEPTEMBER 18, 1923.

177,614. ELECTRICAL COOKING APPARATUS. THE APEX ELECTRICAL MANUFACTURING COMPANY, Cleveland, Ohio.
Filed June 30, 1923. Serial No. 182,639. PUBLISHED SEPTEMBER 18, 1923.

177,615. HANDKERCHIEFS AND COTTON GOODS IN THE PIECE. FRED A. WISH INCORPORATED, New York, N. Y.
Filed June 29, 1923. Serial No. 182,636. PUBLISHED OCTOBER 9, 1923.

177,616. VARIOMETERS AND VARIOCOUPLERS. THE PIONEER RADIO CORPORATION, Galesburg, Ill.
Filed June 29, 1923. Serial No. 182,606. PUBLISHED OCTOBER 9, 1923.

177,617. CUTTER HEADS, THREAD-CUTTING MACHINES, AND CUTTERS THEREFOR. LANDIS MACHINE COMPANY, Waynesboro, Pa.
Filed June 29, 1923. Serial No. 182,593. PUBLISHED OCTOBER 9, 1923.

177,618. MEN'S FASHIONED TIES MADE OF KNITTED SILK. HOLLAND KNITTING CO., Brooklyn, N. Y.
Filed June 29, 1923. Serial No. 182,586. PUBLISHED SEPTEMBER 4, 1923.

177,619. EARS, CLAMPS, AND HANGERS FOR SUSPENDING AND SUPPORTING TROLLEY WIRES, CONDUCTORS, CABLES, AND OTHER WIRES. THE OHIO BRASS COMPANY, Mansfield, Ohio.
Filed June 28, 1923. Serial No. 182,547. PUBLISHED OCTOBER 9, 1923.

177,620. FITTINGS FOR ELECTRICAL CONDUITS, COMPRISING END FITTINGS, ELBOW FITTINGS, T FITTINGS, COUPLING FITTINGS, AND JUNCTION BOXES. MARY W. JOHNSON, doing business as The Johnson Electric Mfg. Co., Warren, R. I.
Filed June 28, 1923. Serial No. 182,542. PUBLISHED SEPTEMBER 18, 1923.

177,621. GOODS IN THE PIECE MADE FROM WOOL, WORSTED, COTTON, OR MIXTURES THEREOF. JOHN B. ELLISON & SONS, Philadelphia, Pa.
Filed June 28, 1923. Serial No. 182,536. PUBLISHED OCTOBER 9, 1923.

177,622. COOKIES. BISHOP & COMPANY, Los Angeles, Calif.
Filed June 26, 1923. Serial No. 182,465. PUBLISHED OCTOBER 2, 1923.

177,623. COOKIES AND SMALL CAKES. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y.
Filed June 25, 1923. Serial No. 182,435. PUBLISHED OCTOBER 2, 1923.

177,624. COTTON TRAMPERS. CULLANDER MACHINERY CO., Belzoni, Miss.
Filed June 22, 1923. Serial No. 182,334. PUBLISHED OCTOBER 9, 1923.

177,625. RADIO RECEIVING SETS AND PARTS THEREOF. SLEEPER RADIO CORPORATION, New York, N. Y.
Filed June 20, 1923. Serial No. 182,271. PUBLISHED OCTOBER 9, 1923.

177,626. STEAM BONE MINERAL MEAL. UNITED CHEMICAL AND ORGANIC PRODUCTS CO., Chicago, Ill.
Filed June 18, 1923. Serial No. 182,190. PUBLISHED OCTOBER 2, 1923.

177,627. GELATIN. UNITED CHEMICAL AND ORGANIC PRODUCTS CO., Chicago, Ill.
Filed June 18, 1923. Serial No. 182,189. PUBLISHED OCTOBER 9, 1923.

177,628. MUSICAL PUBLICATIONS. FORSTER MUSIC PUBLISHER, INC., Chicago, Ill.
Filed June 16, 1923. Serial No. 182,094. PUBLISHED SEPTEMBER 11, 1923.

177,629. PRECISION TOOLS OR TOOLS FOR TESTING THE ALIGNMENTS OF INTERNAL-COMBUSTION-ENGINE CONNECTING RODS. JOHN STEVENSON IMLACH, Ottawa, Ontario, Canada.
Filed June 15, 1923. Serial No. 182,053. PUBLISHED OCTOBER 2, 1923.

177,630. SILK VELVETS IN THE PIECE. J. A. MIGEL, INC., North Bergen, N. J., and New York, N. Y.
Filed June 11, 1923. Serial No. 181,840. PUBLISHED OCTOBER 9, 1923.

177,631. PREPARATION FOR THE TREATMENT OF DIGESTIVE DISORDERS. PEPSIN SYRUP CO., Monticello, Ill.
Filed August 6, 1923. Serial No. 184,148. PUBLISHED OCTOBER 23, 1923.

177,632. COTTON PIECE GOODS, SILK AND COTTON MIXTURES, AND SILK FABRICS. COHN HALL MARX CO., New York, N. Y.
Filed December 14, 1922. Serial No. 173,322. PUBLISHED MARCH 20, 1923.

177,633. BROOMS. LOUISIANA BROOM MANUFACTURERS ASSOCIATION, New Orleans, La.
Filed December 18, 1922. Serial No. 173,517. PUBLISHED OCTOBER 9, 1923.

177,634. CERTAIN PILE FABRICS IN THE PIECE. THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y.
Filed December 21, 1922. Serial No. 173,677. PUBLISHED APRIL 10, 1923.

177,635. A CHEMICAL PRODUCT USED TO CONVEY VACCINES. ETABLISSEMENTS POULENC FRÈRES, Paris, France.
Filed December 23, 1922. Serial No. 173,758. PUBLISHED OCTOBER 9, 1923.

177,636. MANUFACTURED TEXTILE FABRICS OF SILK, WOOL, COTTON, AND MIXTURES OF THE SAME. ASSOCIATED TEXTILE MANUFACTURERS, INC., New York, N. Y.
Filed January 8, 1923. Serial No. 174,279. PUBLISHED OCTOBER 2, 1923.

177,637. PAPER SUITABLE FOR MAKING COPIES FROM STENCIL IMPRESSIONS. H. P. ANDREWS PAPER COMPANY, New York, N. Y.
Filed October 31, 1922. Serial No. 171,402. PUBLISHED OCTOBER 9, 1923.

177,638. PAPER SUITABLE FOR MAKING COPIES FROM STENCIL IMPRESSIONS. H. P. ANDREWS PAPER COMPANY, New York, N. Y.
Filed October 31, 1922. Serial No. 171,406. PUBLISHED OCTOBER 9, 1923.

177,639. JELLIES. DOUBRAVA & MORRIS, doing business as Sun Slot Apiaries, Los Angeles, Calif.
Filed November 27, 1922. Serial No. 172,588. PUBLISHED SEPTEMBER 25, 1923.

177,640. LEADS AND LEAD CONTAINERS. THE WAHL COMPANY, Chicago, Ill.
Filed March 30, 1921. Serial No. 145,483. PUBLISHED OCTOBER 9, 1923.

177,641. FISHING LINES. B. F. GLADDING & CO., INC., South Otselic, N. Y.
Filed October 28, 1921. Serial No. 154,689. PUBLISHED JANUARY 9, 1923.

177,642. PENCILS. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.
Filed October 15, 1919. Serial No. 123,798. PUBLISHED OCTOBER 9, 1923.

177,643. MOUTH HARMONICAS. MATTH. HOHNER AKT. GES., Trossingen, Germany, assignor to M. Hohner, New York, N. Y.
Filed October 15, 1920. Serial No. 138,330. PUBLISHED JUNE 12, 1923.

177,644. ORGANS, PIANOS, HARPS, AND PARTS OF SUCH INSTRUMENTS. L. VAN DER HEYDEN A HAUZEUR, Paris, France.
Filed May 6, 1921. Serial No. 147,279. PUBLISHED OCTOBER 9, 1923.

177,645. CERTAIN FOODS. WILLIAM H. JOHNSON, New York, N. Y., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md., a Corporation of New Jersey.
Filed April 26, 1922. Serial No. 162,932. PUBLISHED AUGUST 21, 1923.

177,646. CERTAIN TOOLS. BAKER, HAMILTON & PACIFIC COMPANY, San Francisco, Calif.
Filed October 6, 1922. Serial No. 170,354. PUBLISHED AUGUST 21, 1923.

177,647. DRESSES, WOMEN'S ROBES AND GOWNS, SUITS, COATS, AND WAISTS. A. & S. LEVY CO., New York, N. Y., assignor to Bab, Inc., New York, N. Y., a Corporation of New York.
Filed November 14, 1922. Serial No. 172,001. PUBLISHED JULY 3, 1923.

177,648. MEN'S, WOMEN'S, AND CHILDREN'S SHOES MADE OF LEATHER, IMITATION LEATHER, CANVAS, SILK, SATIN, LINEN, AND COTTON FABRICS. HARRISBURG SHOE MFG. CO., Harrisburg, Pa.
Filed January 10, 1923. Serial No. 174,390. PUBLISHED SEPTEMBER 18, 1923.

177,649. CERTAIN NAMED PIECE GOODS. JERSEY SILK MILLS, New York, N. Y.
Filed July 5, 1923. Serial No. 182,817. PUBLISHED OCTOBER 2, 1923.

177,650. WOOLEN PIECE GOODS. FINSILVER, STILL & MOSS, INC., New York, N. Y.
Filed November 27, 1922. Serial No. 172,589. PUBLISHED OCTOBER 2, 1923.

177,651. COFFEE. NASH COFFEE COMPANY, Minneapolis, Minn.
Filed August 19, 1922. Serial No. 168,483. PUBLISHED SEPTEMBER 11, 1923.

177,652. FRENCH DRESSING. WINDMILL FOOD PRODUCTS COMPANY, New York, N. Y.
Filed September 30, 1922. Serial No. 170,171. PUBLISHED APRIL 17, 1923.

177,653. CERTAIN NAMED JEWELRY AND PRECIOUS-METAL WARE. L. S. MAYER, GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Frankfort-on-the-Main, Germany.
Filed October 27, 1922. Serial No. 171,278. PUBLISHED OCTOBER 9, 1923.

177,654. CANNED SARDINES. FARNSWORTH PACKING CO., Brooklin, Me.
Filed July 31, 1922. Serial No. 167,609. PUBLISHED FEBRUARY 27, 1923.

177,655. ELECTRICAL CURLING IRONS. ROGERS ELECTRIC COMPANY INC., Miles City, Mont.
Filed August 4, 1922. Serial No. 167,830. PUBLISHED OCTOBER 9, 1923.

177,656. ELECTRICAL MAXIMUM RECORDING MEASURING INSTRUMENTS. LANDIS & GYR A.-G., Zug, Switzerland.
Filed June 8, 1923. Serial No. 181,693. PUBLISHED OCTOBER 2, 1923.

177,657. ELECTRICAL RECORDING MEASURING INSTRUMENTS. LANDIS & GYR A.-G., Zug, Switzerland
Filed June 8, 1923. Serial No. 181,692. PUBLISHED OCTOBER 2, 1923.

177,658. DRAPERIES OF ALL KINDS. THE SCHWARZENBACH HUBER COMPANY, West Hoboken, N. J.
Filed May 31, 1923. Serial No. 181,415. PUBLISHED OCTOBER 2, 1923.

177,659. ELECTRIC-LIGHT FIXTURES. BENJAMIN F. KLEIN, doing business as Kayline Company, Cleveland, Ohio.
Filed June 4, 1923. Serial No. 181,530. PUBLISHED OCTOBER 9, 1923.

177,660. ELECTRIC-LIGHTING FIXTURES. BENJAMIN F. KLEIN, doing business as Kayline Company, Cleveland, Ohio.
Filed June 4, 1923. Serial No. 181,531. PUBLISHED OCTOBER 9, 1923.

177,661. RADIO RECEIVING APPARATUS AND PARTS THEREOF. CHARLES A. BIRCHFIELD, New York, N. Y.
Filed May 23, 1923. Serial No. 181,009. PUBLISHED OCTOBER 9, 1923.

177,662. TALKING MACHINES. THE DUOPHONE SYNDICATE LIMITED, London, England.
Filed May 23, 1923. Serial No. 181,015. PUBLISHED OCTOBER 9, 1923.

177,663. ALL-SILK PIECE GOODS. SUSQUEHANNA SILK MILLS, New York, N. Y.
Filed May 25, 1923. Serial No. 181,154. PUBLISHED OCTOBER 9, 1923.

177,664. SILK AND WOOL MIXED PIECE GOODS. SUSQUEHANNA SILK MILLS, New York, N. Y.
Filed May 25, 1923. Serial No. 181,155. PUBLISHED OCTOBER 9, 1923.

177,665. PERFUMES. BODE SOEURS, New York, N. Y.
Filed May 26, 1923. Serial No. 181,171. PUBLISHED OCTOBER 9, 1923.

177,666. INSECTICIDE POWDERS. NORMAN M. HAGLER, doing business as Hagler-Allen Mfg. Company, Duquoin, Ill.
Filed May 31, 1923. Serial No. 181,394. PUBLISHED OCTOBER 9, 1923.

177,667. HEATED CABINET LAUNDRY DRIERS. THE WILLIAMSON HEATER COMPANY, Cincinnati, Ohio.
Filed May 18, 1923. Serial No. 180,821. PUBLISHED OCTOBER 9, 1923.

177,668. A CHEMICAL COMPOUND RELATING TO THE TREATMENT, MANUFACTURE, AND USE OF RUBBER AND RUBBER PRODUCTS. RUBBER PROCESS CORPORATION, Detroit, Mich.
Filed May 21, 1923. Serial No. 180,944. PUBLISHED OCTOBER 9, 1923.

177,669. PUBLICATION ISSUED ON THE FULL O' THE MOON. THE PARK & POLLARD COMPANY, Boston, Mass.
Filed May 22, 1923. Serial No. 180,985. PUBLISHED SEPTEMBER 11, 1923.

177,670. VELVET, VELOUR, PLUSH, AND OTHER PILE-FABRIC PIECE GOODS AND CUT LENGTHS. COLLINS & AIKMAN CO., Philadelphia, Pa.
Filed May 15, 1923. Serial No. 180,654. PUBLISHED OCTOBER 2, 1923.

177,671. RADIO RECEIVING SETS AND PARTS THEREOF. THE COLIN B. KENNEDY COMPANY, St. Louis, Mo.
Filed May 16, 1923. Serial No. 180,705. PUBLISHED OCTOBER 9, 1923.

177,672. HEATED CABINET LAUNDRY DRIERS. THE WILLIAMSON HEATER COMPANY, Cincinnati, Ohio.
Filed May 16, 1923. Serial No. 180,730. PUBLISHED OCTOBER 9, 1923.

177,673. GOITER PREVENTIVE. JAMES J. BACH, doing business as Io Thyro Chocolate Company, Milwaukee, Wis.
Filed May 17, 1923. Serial No. 180,736. PUBLISHED OCTOBER 9, 1923.

177,674. ELECTRIC-LIGHTING BRACKETS AND CEILING FIXTURES. CHRISTIE-WILLIAMS CO., Trenton, N. J.
Filed May 9, 1923. Serial No. 180,362. PUBLISHED OCTOBER 9, 1923.

177,675. WRITING INK AND INK POWDERS, INK CAPSULES, AND INK TABLETS FOR WRITING INKS. BENJAMIN JABLONOWER, New York, N. Y.
Filed May 11, 1923. Serial No. 180,478. PUBLISHED OCTOBER 9, 1923.

177,676. RUST REMOVERS, LAUNDRY SOUR OR BLEACH, ROUGE, FACE POWDER, AND FACE-POWDER COMPACTS. J. ELMER SMITH, doing business as Claresa Chemical Works, Irwin, Pa.
Filed February 3, 1923. Serial No. 175,528. PUBLISHED OCTOBER 9, 1923.

177,677. WOVEN COTTON FEED RIBBONS FOR LAUNDRY MACHINES. TINGUE, BROWN & CO., New York, N. Y.
Filed February 3, 1923. Serial No. 175,532. PUBLISHED OCTOBER 2, 1923.

177,678. COFFEE. THE F. S. AINSA COMPANY, INC., El Paso, Tex.
Filed December 14, 1921. Serial No. 156,672. PUBLISHED SEPTEMBER 11, 1923.

177,679. SHOE DRESSINGS. THE THOMSEN COMPANY, Waco, Tex.
Filed August 7, 1922. Serial No. 167,927. PUBLISHED SEPTEMBER 25, 1923.

177,680. GINGER ALE. J. G. Fox, Seattle, Wash.
Filed August 25, 1923. Serial No. 184,967. PUBLISHED OCTOBER 9, 1923.

177,681. SOFT DRINKS AND SIRUPS. QUALTOP BEVERAGES, INC., Rochester, N. Y.
Filed August 30, 1923. Serial No. 185,188. PUBLISHED OCTOBER 9, 1923.

177,682. SOFT DRINKS AND SIRUPS. JOHN MARTIN RODGERS, doing business as Rodgers' Bottling Co., Vallejo, Calif.
Filed August 30, 1923. Serial No. 185,189. PUBLISHED OCTOBER 9, 1923.

177,683. SWEET-CHOCOLATE NUT BARS. MASSACHUSETTS CHOCOLATE COMPANY, Boston, Mass.
Filed July 27, 1922. Serial No. 167,479. PUBLISHED FEBRUARY 6, 1923.

177,684. PAINTS AND WATER COLORS IN PANS, WATER COLORS IN CAKE FORM, WATER COLORS IN TUBES, TEMPORA COLORS IN TUBES, OIL COLORS IN TUBES, AND POSTER COLORS IN JARS. MUNSELL COLOR COMPANY, INC., New York, N. Y.
Filed July 29, 1922. Serial No. 167,577. PUBLISHED FEBRUARY 13, 1923.

177,685. SOFT DRINKS. JOHN FRIEDRICH, Philadelphia, Pa.
Filed August 22, 1923. Serial No. 184,817. PUBLISHED OCTOBER 9, 1923.

177,686. FRESH GRAPES. L. R. HAMILTON, Reedley, Calif.
Filed August 17, 1923. Serial No. 184,611. PUBLISHED OCTOBER 9, 1923.

177,687. PILE FABRICS IN THE PIECE. THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y.
Filed August 16, 1923. Serial No. 184,566. PUBLISHED OCTOBER 2, 1923.

177,688. PILE FABRICS IN THE PIECE. THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y.
Filed August 16, 1923. Serial No. 184,565. PUBLISHED OCTOBER 2, 1923.

177,689. PILE FABRICS IN THE PIECE. THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y.
Filed August 15, 1923. Serial No. 184,523. PUBLISHED OCTOBER 2, 1923.

177,690. SILK PIECE GOODS. EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y.
Filed August 17, 1923. Serial No. 184,605. PUBLISHED OCTOBER 2, 1923.

177,691. COTTON THREAD AND YARN. THE AMERICAN THREAD COMPANY, Jersey City, N. J., and New York, N. Y.
Filed July 25, 1923. Serial No. 183,640. PUBLISHED OCTOBER 2, 1923.

177,692. KNITTED SILK FABRICS—VIZ, SILK KNITTED CLOTH IN THE BOLT. THE BANNER SILK KNITTING MILLS, INC., New York, N. Y.
Filed July 24, 1923. Serial No. 183,621. PUBLISHED OCTOBER 2, 1923.

177,693. COTTON FABRICS WOVEN AND FINISHED IN SWITZERLAND. VERBAND DER SCHWEIZERISCHEN STÜCKWAREN-AUSRÜSTANSTALTEN, St. Gall, Switzerland.
Filed July 23, 1923. Serial No. 183,612. PUBLISHED OCTOBER 2, 1923.

177,694. TEA. DELANO, POTTER & COMPANY, INC., Boston, Mass.
Filed July 23, 1923. Serial No. 183,559. PUBLISHED OCTOBER 9, 1923.

177,695. SOFT DRINKS. A. M. DODGE, INC., Stuart and Lake Worth, Fla.
Filed July 19, 1923. Serial No. 183,443. PUBLISHED OCTOBER 9, 1923.

177,696. MINERAL WATER. EDMUND MEYER, doing business as Fortuna Water Company, San Francisco, Calif.
Filed July 18, 1923. Serial No. 183,393. PUBLISHED OCTOBER 9, 1923.

177,697. ELECTRICAL OUTLET FIXTURES. WHITMAN SYMMES, San Francisco, Calif.
Filed July 17, 1923. Serial No. 183,350. PUBLISHED OCTOBER 9, 1923.

177,698. ELECTRICAL OUTLET FIXTURES. WHITMAN SYMMES, San Francisco, Calif.
Filed July 17, 1923. Serial No. 183,349. PUBLISHED OCTOBER 9, 1923.

177,699. AUDIOFREQUENCY TRANSFORMERS. PREMIER ELECTRIC COMPANY, Chicago, Ill.
Filed July 13, 1923. Serial No. 183,162. PUBLISHED OCTOBER 9, 1923.

177,700. PENCILS. A/S BLYANTFABRIKKEN VIKING, Copenhagen, Denmark.
Filed July 13, 1923. Serial No. 183,131. PUBLISHED OCTOBER 9, 1923.

177,701. BROOMS. ALBERT L. UNGERBUEHLER, doing business as Cincinnati Brush & Mop Manufacturing Company, Cincinnati, Ohio.
Filed July 12, 1923. Serial No. 183,129. PUBLISHED OCTOBER 2, 1923.

177,702. SHAVING LOTIONS. LAM-TÉ MFG. CO., Oklahoma, Okla.
Filed June 27, 1922. Serial No. 166,142. PUBLISHED OCTOBER 9, 1923.

177,703. FLAVORING EXTRACTS FOR FOOD. HUDSON MANUFACTURING COMPANY, Chicago, Ill.
Filed June 14, 1922. Serial No. 165,493. PUBLISHED JULY 3, 1923.

177,704. INSECTICIDE. WALNUT-GROWERS SPRAY MANUFACTURING COMPANY, Los Angeles, Calif.
Filed June 12, 1922. Serial No. 165,434. PUBLISHED OCTOBER 9, 1923.

177,705. A URIC-ACID SOLVENT AND BLOOD PURIFIER. THE AMERICAN CHEMICAL MANUFACTURING CO., Denver, Colo.
Filed June 5, 1922. Serial No. 164,996. PUBLISHED OCTOBER 9, 1923.

177,706. RAW MILK, RAW CREAM, PASTEURIZED MILK, PASTEURIZED CREAM, CERTIFIED MILK, AND BUTTERMILK. SUPPLEE-WILLS-JONES MILK COMPANY, Philadelphia, Pa.
Filed May 24, 1922. Serial No. 164,457. PUBLISHED OCTOBER 2, 1923.

177,707. A PREPARATION FOR REMOVING RUST. C. O. GABRIEL & SONS, Columbus Junction, Iowa.
Filed May 20, 1922. Serial No. 164,161. PUBLISHED OCTOBER 9, 1923.

177,708. ELECTRIC FLOOR AND TABLE LAMPS. ADVANCE WOOD TURNING CO., Chicago, Ill.
Filed May 20, 1922. Serial No. 164,151. PUBLISHED OCTOBER 9, 1923.

177,709. ELECTRIC FLOOR AND TABLE LAMPS. ADVANCE WOOD TURNING CO., Chicago, Ill.
Filed May 20, 1922. Serial No. 164,150. PUBLISHED OCTOBER 9, 1923.

177,710. RADIOADAPTERS FOR CONNECTING RADIO RECEIVING SETS TO AMPLIFYING CHAMBERS OF PHONOGRAPHS. THE BECKLEY-RALSTON CO., Chicago, Ill.
Filed May 10, 1922. Serial No. 163,608. PUBLISHED OCTOBER 9, 1923.

177,711. SPOTLIGHTS. THE CINCINNATI LAMP & BRACKET COMPANY, now by change of name The Cino Auto Products Company, Cincinnati, Ohio.
Filed September 16, 1921. Serial No. 152,987. PUBLISHED OCTOBER 9, 1923.

177,712. FACE POWDER. A. BOURJOIS & CO., INC., New York, N. Y., assignor to M. Tecla & Co., New York, N. Y., a Corporation of New York.
Filed July 24, 1918. Serial No. 112,292. PUBLISHED OCTOBER 9, 1923.

177,713. WOOLEN PIECE GOODS. THE BRADFORD DYERS' ASSOCIATION, LIMITED, Bradford, England.
Filed September 10, 1919. Serial No. 122,520. PUBLISHED DECEMBER 2, 1919.

177,714. CERTAIN NAMED PIECE GOODS. JERSEY SILK MILLS, New York, N. Y.
Filed July 5, 1923. Serial No. 182,819. PUBLISHED OCTOBER 9, 1923.

177,715. CERTAIN NAMED PIECE GOODS. JERSEY SILK MILLS, New York, N. Y.
Filed July 5, 1923. Serial No. 182,821. PUBLISHED OCTOBER 2, 1923.

177,716. FITTINGS FOR ELECTRIC CONDUITS, COMPRISING END FITTINGS, ELBOW FITTINGS, T FITTINGS, COUPLING FITTINGS, AND JUNCTION BOXES. MARY W. JOHNSON, doing business as The Johnson Electric Mfg. Co., Warren, R. I.
Filed July 5, 1923. Serial No. 182,823. PUBLISHED SEPTEMBER 18, 1923.

177,717. CONDUITS FOR ELECTRIC WIRING. THE YOUNGSTOWN SHEET AND TUBE COMPANY, Youngstown, Ohio.
Filed July 5, 1923. Serial No. 182,845. PUBLISHED SEPTEMBER 18, 1923.

177,718. BATTERY CHARGERS. FANSTEEL PRODUCTS COMPANY, INC., North Chicago, Ill.
Filed July 9, 1923. Serial No. 182,966. PUBLISHED OCTOBER 9, 1923.

177,719. CANDIES. MARK M. DIFFENBACHER, Long Beach, Calif.
Filed January 19, 1922. Serial No. 158,113. PUBLISHED SEPTEMBER 25, 1923.

177,720. CAMERAS FOR TAKING CINEMATOGRAPHIC PICTURES, CINEMATOGRAPHIC PROJECTING LANTERNS, STEREOSCOPES, STATIONARY MAGIC LANTERNS, EYEPIECES AND SPARE PARTS FOR PHOTOGRAPHIC AND CINEMATOGRAPHIC APPARATUS. PATHÉ-CINÉMA, ANCIENS ETABLISSEMENTS PATHE FRERES, Paris, France.
Filed January 25, 1922. Serial No. 158,442. PUBLISHED OCTOBER 2, 1923.

177,721. WHEAT FLOUR. HECKER-JONES-JEWELL MILLING COMPANY, New York, N. Y.
Filed July 5, 1923. Serial No. 182,805. PUBLISHED OCTOBER 2, 1923.

177,722. WHEAT FLOUR. HECKER-JONES-JEWELL MILLING COMPANY, New York, N. Y.
Filed July 5, 1923. Serial No. 182,806. PUBLISHED OCTOBER 2, 1923.

177,723. WHEAT FLOUR. HECKER-JONES-JEWELL MILLING COMPANY, New York, N. Y.
Filed July 5, 1923. Serial No. 182,808. PUBLISHED OCTOBER 2, 1923.

177,724. A LIQUID PREPARATION FOR THE TREATMENT OF KIDNEY, BLADDER, AND RHEUMATIC TROUBLES. THE INABINE COMPANY, Corsicana, Tex.
Filed March 5, 1923. Serial No. 177,001. PUBLISHED OCTOBER 9, 1923.

177,725. CERTAIN NAMED ELECTRICAL INSTRUMENTS FOR CENTRAL-STATION USES, AND RADIO RECEIVING SETS AND CERTAIN NAMED PARTS THEREOF. THE EASTERN SPECIALTY COMPANY, Philadelphia, Pa.
Filed March 1, 1923. Serial No. 176,792. PUBLISHED OCTOBER 9, 1923.

177,726. MEDICINE FOR DISORDERS OF THE DIGESTIVE TRACT. HARRY E. SPAYDE and EDWARD B. RAUP, Sunbury, Pa.
Filed March 3, 1923. Serial No. 176,923. PUBLISHED OCTOBER 9, 1923.

177,727. NUTS IN THEIR NATURAL STATE, SALTED NUTS, GRANULATED NUTS, PEANUT BUTTER. PEDIGREED PRODUCTS CORPORATION, Elmira, N. Y.
Filed February 26, 1923. Serial No. 176,647. PUBLISHED SEPTEMBER 18, 1923.

177,728. PEARLS, NECKLACES, BRACELETS, AND EARRINGS. DANIEL SMILO, New York, N. Y.
Filed February 24, 1923. Serial No. 176,578. PUBLISHED OCTOBER 9, 1923.

177,729. BRONZE, ALUMINUM, BLACK, WHITE, AND COLOR STAMPING LEAF FOR USE ON HOT PRESS. RALPH W. GRAUERT, doing business as R. W. Grauert Co., New York, N. Y.
Filed February 20, 1923. Serial No. 176,340. PUBLISHED OCTOBER 9, 1923.

177,730. TEA. WILSON TEA CO., Seattle, Wash.
Filed February 14, 1923. Serial No. 176,054. PUBLISHED AUGUST 28, 1923.

177,731. TEA. WILSON TEA CO., Seattle, Wash.
Filed February 14, 1923. Serial No. 176,053. PUBLISHED AUGUST 28, 1923.

177,732. CERTAIN TOILET PREPARATIONS. BEATRICE CORDELIA AUCHMUTY TOZER, London, England.
Filed February 5, 1923. Serial No. 175,576. PUBLISHED OCTOBER 9, 1923.

177,733. BUTTER, SWINGLEY BROS., Rockford and Freeport, Ill., and Beloit, Wis.
Filed July 3, 1923. Serial No. 182,781. PUBLISHED OCTOBER 2, 1923.

177,734. WHEAT FLOUR. STODDARD MILL & GRAIN COMPANY, Advance, Mo.
Filed July 3, 1923. Serial No. 182,777. PUBLISHED OCTOBER 2, 1923.

177,735. ELECTRIC PARKING LAMPS. THE RAE-LITE MFG. CO., Baltimore, Md.
Filed July 3, 1923. Serial No. 182,769. PUBLISHED OCTOBER 9, 1923.

177,736. INDIVIDUAL LIGHTING PLANTS. FARM-ELECTRIC UTILITIES CORPORATION, Woodberry, Baltimore, Md.
Filed July 3, 1923. Serial No. 182,742. PUBLISHED SEPTEMBER 18, 1923.

177,737. SELF-RISING WHEAT FLOUR. TRENTON MILLING COMPANY, Trenton, Ill.
Filed July 2, 1923. Serial No. 182,729. PUBLISHED OCTOBER 2, 1923.

177,738. RAT EXTERMINATOR. FRED. E. LAGERHOLM, doing business as The Rodex Company, Charlotte, N. C.
Filed May 9, 1922. Serial No. 163,586. PUBLISHED OCTOBER 9, 1923.

177,739. HAIR NETS (MEANING THEREBY NETS FOR THE HAIR MADE OF REAL HAIR). WM. FILENE'S SONS COMPANY, Boston, Mass.
Filed May 1, 1922. Serial No. 163,147. PUBLISHED SEPTEMBER 26, 1922.

177,740. SHEET-METAL PRODUCTS—NAMELY, SODA-FOUNTAIN EQUIPMENT, COMPRISING ELECTRICAL COOKING APPLIANCES, AND WATER HEATERS. CAL-MET MFG. CO., Oakland, Calif.
Filed March 22, 1922. Serial No. 161,034. PUBLISHED OCTOBER 9, 1923.

177,741. COPPER-CLAD LEADING-IN WIRE FOR ELECTRICAL PURPOSES. CANADIAN CONSOLIDATED CORPORATION, LIMITED, St. Catharines, Ontario, Canada.
Filed March 18, 1922. Serial No. 160,860. PUBLISHED OCTOBER 9, 1923.

177,742. CONFECTION MADE FROM TOASTED PUFFED WHEAT, NUTS, AND SUGAR. THE ALLINGHAM CANDY MANUFACTURING COMPANY, Colorado Springs, Colo.
Filed February 6, 1922. Serial No. 158,912. PUBLISHED OCTOBER 2, 1923.

177,743. CIGARS, SMOKING TOBACCO, AND LEAF TOBACCO. GENERAL TOBACCO COMPANY, Louisville, Ky., and Chicago, Ill.
Filed August 11, 1923. Serial No. 184,336. PUBLISHED OCTOBER 16, 1923.

177,744. CIGARETTES, CIGARS, AND SMOKING TOBACCO. GENERAL TOBACCO COMPANY, Louisville, Ky., and Chicago, Ill.
Filed August 11, 1923. Serial No. 184,334. PUBLISHED OCTOBER 16, 1923.

177,745. LAUNDRY NETS OR BAGS. THE ALDEN SPEARE'S SONS CO., Chicago, Ill.
Filed May 7, 1923. Serial No. 180,306. PUBLISHED OCTOBER 9, 1923.

177,746. PIANOS, PLAYER PIANOS, AND PIANO PLAYERS. THE BALDWIN COMPANY, Cincinnati, Ohio.
Filed May 7, 1923. Serial No. 180,264. PUBLISHED OCTOBER 9, 1923.

177,747. ROUGE. ANNA HELEN ARLT, Brooklyn, N. Y.
Filed April 23, 1923. Serial No. 179,512. PUBLISHED OCTOBER 9, 1923.

177,748. LINEN, HALF-LINEN, AND COTTON FABRICS. LINNENFABRIEKEN E. J. F. VAN DISSEL & ZONEN, Eindhoven, Netherlands.
Filed April 24, 1923. Serial No. 179,611. PUBLISHED OCTOBER 2, 1923.

177,749. MEDICATED OINTMENTS OR SALVES FOR ENTERNAL USE. LARKIN CO. INC., Buffalo, N. Y.
Filed April 30, 1923. Serial No. 179,942. PUBLISHED OCTOBER 9, 1923.

177,750. A PREPARATION FOR THE TREATMENT OF SYPHILIS. GABRIEL FERMÉ, Paris, France.
Filed April 21, 1923. Serial No. 179,464. PUBLISHED OCTOBER 9, 1923.

177,751. DENTAL MEDICINAL COMPOUND EMPLOYED FOR THE TREATMENT OF PYORRHEA. GEORGE E. WEAVER, doing business as U-Sal Company, New York, N. Y.
Filed April 21, 1923. Serial No. 179,503. PUBLISHED AUGUST 21, 1923.

177,752. VARIABLE RESISTANCE UNITS—NAMELY, RHEOSTATS AND VARIABLE GRID LEAKS. ELECTRAD CORPORATION OF AMERICA, New York, N. Y.
Filed April 13, 1923. Serial No. 179,091. PUBLISHED OCTOBER 9, 1923.

177,753. CARBON PAPER. CHARLES R. LEONARD, doing business as The C. R. Leonard Company, Seattle, Wash.
Filed April 11, 1923. Serial No. 179,007. PUBLISHED OCTOBER 9, 1923.

177,754. MILK-CHOCOLATE FRUIT AND NUT ROLL. THE METRO CHOCOLATE CO., INC., Brooklyn, N. Y.
Filed April 12, 1923. Serial No. 179,050. PUBLISHED SEPTEMBER 25, 1923.

177,755. PHONOGRAPH-NEEDLE HOLDERS FOR SOUND BOXES. WALTER VAN SANDS, doing business as Vantone Company, New York, N. Y.
Filed April 2, 1923. Serial No. 178,482. PUBLISHED OCTOBER 9, 1923.

177,756. COFFEE. THOMAS J. WEBB COMPANY, Chicago, Ill.
Filed April 7, 1923. Serial No. 178,786. PUBLISHED SEPTEMBER 11, 1923.

177,757. PHONOGRAPH-NEEDLE HOLDERS FOR SOUND BOXES. WALTER VAN SANDS, doing business as Vantone Company, New York, N. Y.
Filed March 31, 1923. Serial No. 178,418. PUBLISHED OCTOBER 9, 1923.

177,758. A BACTERIAL SUGAR FOR CERTAIN PURPOSES. CALIFORNIA PHYSICIANS LABORATORIES, Oakland, Calif.
Filed March 20, 1923. Serial No. 177,725. PUBLISHED OCTOBER 9, 1923.

177,759. KNIVES, FORKS, AND SPOONS OF ALUMINUM. GEBR. NOELLE, Ludenscheid, Germany.
Filed March 28, 1923. Serial No. 178,183. PUBLISHED OCTOBER 2, 1923.

177,760. SHAMPOO. JOSEPH ABRAMS, San Francisco, Calif.
Filed March 31, 1923. Serial No. 178,368. PUBLISHED OCTOBER 9, 1923.

177,761. ELECTRICALLY-OPERATED DEEP-WELL AND TURBINE PUMPS. STERLING IRON WORKS, INC., Stockton, Calif.
Filed March 7, 1923. Serial No. 177,114. PUBLISHED OCTOBER 9, 1923.

177,762. ELECTRICALLY-ILLUMINATED SIGNS. THOMAS CUSACK COMPANY, Chicago, Ill.
Filed March 10, 1923. Serial No. 177,217. PUBLISHED OCTOBER 9, 1923.

177,763. CANDIES, CANDY CONFECTIONS, SWEETMEATS, CHEWING GUM. IDEAL CARAMEL COMPANY, INC., Johnson City, N. Y.
Filed March 10, 1923. Serial No. 177,226. PUBLISHED AUGUST 28, 1923.

177,764. MINERAL STOCK FOOD. VITA MINERAL PRODUCT COMPANY, Peoria, Ill.
Filed March 12, 1923. Serial No. 177,337. PUBLISHED OCTOBER 2, 1923.

177,765. PILE FABRICS IN THE PIECE. THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y.
Filed August 15, 1923. Serial No. 184,520. PUBLISHED OCTOBER 2, 1923.

177,766. SILK CHIFFON CLOTH. VOSS & STERN, New York, N. Y.
Filed August 11, 1923. Serial No. 184,372. PUBLISHED OCTOBER 2, 1923.

177,767. THREADS OF ARTIFICIAL SILK AND COTTON. CORTICELLI SILK COMPANY, Florence, Northampton, Mass.
Filed August 13, 1923. Serial No. 184,384. PUBLISHED OCTOBER 2, 1923.

177,768. A POWDERED GREASING COMPOUND TO BE APPLIED TO BREAD PANS, DRUMS OF BAKERS' MOLDING MACHINES, DOUGH FORMS, AND THE LIKE. THE DRYOL CORPORATION, Atlanta, Ga.
Filed August 13, 1923. Serial No. 184,395. PUBLISHED OCTOBER 9, 1923.

177,769. FRESH CITROUS FRUITS. SAN DIMAS LEMON ASSOCIATION, San Dimas, Calif.
Filed August 10, 1923. Serial No. 184,296. PUBLISHED OCTOBER 9, 1923.

177,770. FRESH CITROUS FRUITS. SAN DIMAS LEMON ASSOCIATION, San Dimas, Calif.
Filed August 10, 1923. Serial No. 184,297. PUBLISHED OCTOBER 9, 1923.

177,771. FRESH CITROUS FRUITS. SAN DIMAS LEMON ASSOCIATION, San Dimas, Calif.
Filed August 10, 1923. Serial No. 184,299. PUBLISHED OCTOBER 9, 1923.

177,772. HANDMADE CHINESE WOOL RUGS AND HAIR NETS. THE STERO CORPORATION, Wilmington, Del.
Filed August 7, 1923. Serial No. 184,101. PUBLISHED OCTOBER 2, 1923.

177,773. ARTIFICIAL-SILK YARNS AND THREADS. THE VISCOSE COMPANY, Marcus Hook, Pa.
Filed August 7, 1923. Serial No. 184,197. PUBLISHED OCTOBER 2, 1923.

177,774. HANDKERCHIEFS. LAWRENCE V. JOHNSON, New York, N. Y.
Filed August 9, 1923. Serial No. 184,245. PUBLISHED OCTOBER 2, 1923.

177,775. ROASTED PEANUTS. BETTERTON-RUPERT COFFEE CO., Ashland, Ky.
Filed August 1, 1923. Serial No. 183,904. PUBLISHED OCTOBER 9, 1923.

177,776. TEA. REID, MURDOCH & CO., Chicago, Ill.
Filed August 1, 1923. Serial No. 183,940. PUBLISHED OCTOBER 9, 1923.

177,777. COFFEE. THE KELLUM COMPANY, Kansas City, Mo.
Filed August 6, 1923. Serial No. 184,136. PUBLISHED OCTOBER 9, 1923.

177,778. PROOFING PAPER. MCLAURIN-JONES CO., Brookfield, Mass.
Filed July 26, 1923. Serial No. 183,716. PUBLISHED OCTOBER 9, 1923.

177,779. TEA. REID, MURDOCH & CO., Chicago, Ill.
Filed July 30, 1923. Serial No. 183,854. PUBLISHED OCTOBER 9, 1923.

177,780. TEA. REID, MURDOCH & CO., Chicago, Ill.
Filed July 30, 1923. Serial No. 183,855. PUBLISHED OCTOBER 9, 1923.

177,781. KNITTED SILK FABRICS—VIZ, SILK KNITTED CLOTH IN THE BOLT. THE BANNER SILK KNITTING MILLS, INC., New York, N. Y.
Filed August 1, 1923. Serial No. 183,901. PUBLISHED OCTOBER 2, 1923.

177,782. INSULATING SEPARATOR FOR ELECTRICAL CONDUCTORS. DANIEL J. HOYE, Detroit, Mich.
Filed July 25, 1923. Serial No. 183,653. PUBLISHED OCTOBER 9, 1923.

177,783. CIGAR AND CIGARETTE HOLDERS. AMERICAN BRIAR PIPE COMPANY, Chicago, Ill.
Filed July 26, 1923. Serial No. 183,685. PUBLISHED OCTOBER 2, 1923.

177,784. TABLE WATER. CALIFORNIA BOTTLING ASSOCIATION, San Francisco, Calif.
Filed July 26, 1923. Serial No. 183,694. PUBLISHED OCTOBER 9, 1923.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

177,785. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE SOAP SALT COMPANY, Tarentum, Pa. Filed Mar. 7, 1922. Serial No. 160,309.

FOR THE LAUNDRY
SOAP SALT
BOILS CLOTHES CLEAN

Particular description of goods.—A Powdered Cleanser for General Household Purposes, with Incidental Water-Softening Properties.
Claims use since Feb. 7, 1922.

177,786. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) NATIONAL HAIR GOODS CO., Chicago, Ill. Filed May 26, 1922. Serial No. 164,550.

National

Particular description of goods.—Hairpins.
Claims use since May 8, 1922.

177,787. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDWIN F. BENSON, St. Paul, Minn. Filed Feb. 9, 1922. Serial No. 159,077.

SUNSET
RANCH
HOLSTEINS
PROSSER
WASHINGTON
U.S.A.

Particular description of goods.—Holstein Cattle, Cows, and Bulls.
Claims use since Aug. 1, 1920.

177,788. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) FRANK D. DARROW, doing business as The Darrow Music Company, Denver, Colo. Filed Dec. 27, 1921. Serial No. 157,142.

NATURAL EXPRESSION PLAYERS

Particular description of goods.—Player Pianos.
Claims use since about 1916.

177,789. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HARRY C. STODDARD, doing business as the Brush-On Manufacturing Company, Los Angeles, Calif. Filed July 10, 1922. Serial No. 166,723.

BRUSH-ON

Particular description of goods.—Sanitary Cleanser and Dirt Remover.
Claims use since June 8, 1922.

177,790. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) SCHWARTZ BROS. & CO., INC., New Orleans, La. Filed Aug. 27, 1923. Serial No. 185,047.

RIGHT BRAND

Particular description of goods.—Pocketbooks of All Classes and Leather Suitcases.
Claims use since Jan. 1, 1910.

177,791. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VOGUE WEAVING CO. INC., New York, N. Y. Filed Sept. 11, 1923. Serial No. 185,685.

NOVELTY LUSTRE

Particular description of goods.—Silk and Cotton Ribbons.
Claims use since October, 1921.

177,792. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. HELLER & COMPANY, Chicago, Ill. Filed Sept. 12, 1923. Serial No. 185,701.



Particular description of goods.—Pudding Powders.
Claims use since 1900.

177,793. (CLASS 39. CLOTHING.) P. CENTEMERI & Co., New York, N. Y. Filed Sept. 7, 1923. Serial No. 185,417.

Columbia

Particular description of goods.—Leather and Fabric Gloves.
Claims use since 1903.

177,794. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. HELLER & COMPANY, Chicago, Ill. Filed Sept. 12, 1923. Serial No. 185,702.



Particular description of goods.—Pudding Powders.
Claims use since 1912.

177,795. (CLASS 39. CLOTHING.) FOOT, SCHULZE & Co., Dover, Del., and St. Paul, Minn. Filed Oct. 12, 1923. Serial No. 186,889.

ARCH-SECURITY

Particular description of goods.—Men's and Women's Leather Boots and Shoes.
Claims use since Oct. 2, 1922.

177,796. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GRAY'S LABORATORY, INC., New York, N. Y. Filed Oct. 20, 1923. Serial No. 187,256.

KLEANWELL

Particular description of goods.—Cleaning Fluid for Use on Fabrics, Leather, Etc.
Claims use since June 1, 1922.

177,797. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) P. A. GARDNER LEATHER WORKS, INC., St. Louis, Mo. Filed Oct. 22, 1923. Serial No. 187,307.

PUL-TAB

Particular description of goods.—Receptacles—Namely, Cardcases.
Claims use since on or about June 1, 1921.

177,798. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ARMAND COMPANY, Des Moines, Iowa. Filed Oct. 24, 1923. Serial No. 187,400.

Armand

Particular description of goods.—Face Powder, Talcum Powder, Cold-Cream Powder, Compact Powder, Rouge, Cold-Cream Rouge, Vanishing Cream, Lipstick Rouge, Hair Wash, Tooth Paste, Shampoo Preparations, and Perfume.
Claims use on face powder, talcum powder, cold-cream powder, compact powder, rouge, and cold-cream rouge since May 29, 1916; on cold cream, vanishing cream, lipstick rouge, hair wash, tooth paste, shampoo preparations, and perfume since July 27, 1916.

177,799. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GEO. D. WETHERILL & CO., INC., Philadelphia, Pa. Filed Oct. 26, 1923. Serial No. 187,557.

TRUE'S

Particular description of goods.—Ready-Mixed Paints, Varnishes, Paint Enamels, Colors in Oil, and Stains.
Claims use since Jan. 1, 1920.

177,800. (CLASS 31. FILTERS AND REFRIGERATORS.) WILLIAM F. BAIRD, doing business as William F. Baird Company, Winchester, Mass. Filed June 9, 1923. Serial No. 181,716.

Baird

Particular description of goods.—Refrigerating Vehicle Bodies.
Claims use since Apr. 17, 1922.

177,801. (CLASS 12. CONSTRUCTION MATERIALS.) HAMPDEN PAINT & CHEMICAL CO., Springfield, Mass. Filed June 6, 1923. Serial No. 181,595.

CONCRETE CONTROLLER

Particular description of goods.—Material for Use in Concrete That Facilitates Hardening, That Adds Density, and That Serves as an Antifreeze Ingredient.
Claims use since Oct. 1, 1922.

177,802. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NESTOR JOHNSON MANUFACTURING COMPANY, Chicago, Ill. Filed Sept. 28, 1923. Serial No. 186,326.

They Go Like Lightning

Particular description of goods.—Ice Skates.
Claims use since Sept. 26, 1923.

177,803. (CLASS 17. TOBACCO PRODUCTS.) BERNARD SCHWARTZ CIGAR CORPORATION, Detroit, Mich. Filed Sept. 15, 1923. Serial No. 185,843.

R.G. DUN CIGARS
IN HIGHEST CREDIT WHEREVER GOOD CIGARS ARE SOLD

Particular description of goods.—Cigars.
Claims use since July, 1921.

177,804. (CLASS 37. PAPER AND STATIONERY.) MILTON BRADLEY COMPANY, Springfield, Mass. Filed Oct. 1, 1923. Serial No. 186,440.

SPRINGFIELD

Particular description of goods.—Crayons of Various Colors.
Claims use since April, 1910.

177,805. (CLASS 37. PAPER AND STATIONERY.) MILTON BRADLEY COMPANY, Springfield, Mass. Filed Oct. 1, 1923. Serial No. 186,436.

Copley

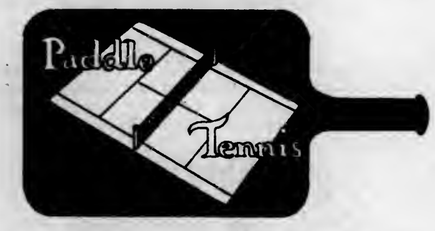
Particular description of goods.—Crayons of Various Colors.
Claims use since April, 1915.

177,806. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SULLIVAN MACHINERY COMPANY, Boston, Mass., and Chicago, Ill. Filed Sept. 1, 1922. Serial No. 168,987.

LITE-WEIGHT

Particular description of goods.—Percussive Drills.
Claims use since July 3, 1922.

177,807. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) FRANK PEER BEAL, New York, N. Y. Filed Oct. 23, 1922. Serial No. 171,059.



Particular description of goods.—A Game Similar to Tennis, Played with Paddles.
Claims use since June 1, 1922.

177,808. (CLASS 12. CONSTRUCTION MATERIALS.) ARKANSAS BRICK AND TILE CO., Little Rock, Ark. Filed Jan. 11, 1923. Serial No. 174,424.

PERLA

Particular description of goods.—Fire Brick.
Claims use since Oct. 20, 1922.

177,809. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. HELLER & COMPANY, Chicago, Ill. Filed Oct. 30, 1922. Serial No. 171,363.

$1000.00 GUARANTEED FLEA KILLER

REG. U.S. PAT. OFF.

Particular description of goods.—Insecticides for Killing Fleas.
Claims use since Oct. 3, 1922.

177,810. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COMPAGNIE FRANÇAISE DES PARFUMS D'ORSAY, Paris and Puteaux, France. Filed Apr. 5, 1923. Serial No. 178,591.

D'ORSAY

Particular description of goods.—Toilet Waters, Sachets, Face and Talcum Powders, Lip Sticks, Eyebrow Pencils, Bath Salts, Shampoos, Brilliantines, Perfume Preparations, and Perfume Extracts.
Claims use since 1908.

177,811. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH M. NELSON, Houma, La. Filed Mar. 15, 1923. Serial No. 177,506.

QUICK WORK

Particular description of goods.—Rheumatism Medicine.
Claims use for not less than one year.

177,812. (CLASS 32. FURNITURE AND UPHOLSTERY.) WOHLFARTH & KOOS CO. INC., Newark, N. J. Filed Apr. 18, 1923. Serial No. 179,340.



Particular description of goods.—Furniture and House-Furnishing Goods—Namely, Bedsteads, Metal Folding Beds, Metal Couches, Woven-Wire Mattresses and Cotton-Fabric Mattresses, Display Racks; Rustic Furniture for Porches, Lawns, Gardens—Namely, Rustic Chairs, Stools, Settees, Lounges, Tables, Swings; Hat-Trees; Furniture—viz, Library Tables, Couch Hammocks, Stands, Tea Tables and Tea Wagons, Book Ends, and Medicine Cabinets, Baby Bassinets, Cribs, Children's Dressers, Chiffoniers, Chiffonettes, and Costumers, Pillows, Dressers, Dressing Tables, Boudoir Benches, Writing Desks, Night Tables, Trunk Stands, Dining Tables, China Cabinets, Serving Tables, Buffets, Davenports, and Household, Bedroom, and Dining-Room Chairs, and Rockers.
Claims use since Feb. 1, 1919.

177,813. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHINESE BLUEING COMPANY, Detroit, Mich. Filed Apr. 16, 1923. Serial No. 179,183.

CHINESE

Particular description of goods.—Package Bluing for Laundry Use.
Claims use since May, 1915.

177,814. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BENJAMIN LAUBER, doing business as Valentino Company, Not Incorporated, Chicago, Ill. Filed Apr. 9, 1923. Serial No. 178,852.

VALENTINO

Particular description of goods.—Hair Preparation and Tonic.
Claims use since about Jan. 15, 1921.

177,815. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. D. THATCHER & COMPANY, INC., Potsdam, N. Y. Filed Aug. 7, 1923. Serial No. 184,193.

EGG YELLOW

Particular description of goods.—Ice-Cream Coloring.
Claims use since Dec. 9, 1918.

177,816. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) HICKOK MANUFACTURING COMPANY, INC., Rochester, N. Y. Filed June 23, 1923. Serial No. 182,376.

HICKOK

Particular description of goods.—Buckles Not of Precious Metal.
Claims use since November, 1909.

177,817. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ROBERT SHERMAN, New York, N. Y. Filed Sept. 8, 1923. Serial No. 185,586.

A Sherm's Creation

Particular description of goods.—Puzzles.
Claims use since 1911.

177,818. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE EHLENBERGER & CO. INC., New York, N. Y. Filed Sept. 4, 1923. Serial No. 185,288.



Particular description of goods.—Butter, Cheese, and Eggs.
Claims use since Jan. 1, 1917.

177,819. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NELSON-RICKS CREAMERY CO., Salt Lake City, Utah. Filed Aug. 11, 1923. Serial No. 184,347.

MADE FROM THE CREAM OF THE CREAM

Particular description of goods.—Butter.
Claims use since Mar. 7, 1919.

177,820. (CLASS 17. TOBACCO PRODUCTS.) BERNARD SCHWARTZ CIGAR CORPORATION, Detroit, Mich. Filed Sept. 15, 1923. Serial No. 185,842.

R.G.DUN, A-1 MILD CIGARS

Particular description of goods.—Cigars.
Claims use since July, 1921.

177,821. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) VALMONT MFG. CO., INC., Brooklyn, N. Y. Filed May 11, 1923. Serial No. 180,510.

VALMONT

Particular description of goods.—Powder Puffs.
Claims use since Oct. 29, 1919.

177,822. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAN FRANCISCO SULPHUR CO., San Francisco, Calif. Filed Mar. 22, 1923. Serial No. 177,872.

NEUTRAL

Particular description of goods.—Sulphur.
Claims use since Nov. 1, 1922.

177,823. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAN FRANCISCO SULPHUR CO., San Francisco, Calif. Filed Mar. 22, 1923. Serial No. 177,868.

Columbus

Particular description of goods.—Sulphur.
Claims use since about November, 1915.

177,824. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MIFFLIN CHEMICAL CORPORATION, Philadelphia, Pa. Filed Dec. 21,1922. Serial No. 173,656.

MIFFLIN ALKOHOL

Particular description of goods.—Preparation for External Use Upon the Body for Bathing, Rubbing, Sponging, Massaging, Etc.
Claims use since Nov. 1, 1922.

177,825. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MILLERSBURG REAMER & TOOL CO., Millersburg, Pa. Filed Dec. 16, 1922. Serial No. 173,437.

SMOOTH-KUT

Particular description of goods.—Expansion Reamers.
Claims use since Nov. 1, 1922.

177,826. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NULUSTA COMPANY, Baltimore, Md. Filed Nov. 25, 1922. Serial No. 172,550.

NULUSTA

Particular description of goods.—Shoe Polish.
Claims use since July 28, 1922.

177,827. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) M. E. SCHOENING CO., INC., New York, N. Y. Filed Nov. 22, 1922. Serial No. 172,399.

Eduard Reichert

Particular description of goods.—Violins and Violin Bows.
Claims use since 1898.

177,828. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) WILSON WELDER & METALS COMPANY, INC., New York, N. Y. Filed Nov. 15, 1922. Serial No. 172,069.



Particular description of goods.—Welding Metals.
Claims use since about Oct. 30, 1922.

177,829. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WASHBURN CROSBY COMPANY, Minneapolis, Minn. Filed Oct. 19, 1922. Serial No. 170,962.

GOLD MEDAL

Particular description of goods.—Oats, Rolled Oats, Wheat Cereal, Bran Flakes, Pancake Flour, and Cake Flour.
Claims use since June 1, 1920.

177,830. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) INTERNATIONAL SILVER COMPANY, Meriden and Bridgeport, Conn. Filed Oct. 11, 1922. Serial No. 170,585.

CENTURY

Particular description of goods.—Silver-Plated Spoons, Forks, Knives, Sugar Shells, Sugar Tongs, Jelly Servers, Ladles, and Steels.
Claims use since Sept. 1, 1922.

177,831. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MOORE STEAM TURBINE CORPORATION, Wellsville, N. Y. Filed Sept. 16, 1922. Serial No. 169,554.

MOORE

Particular description of goods.—Steam Turbines, Reduction Gears, Base Plates for Turbine Units, Flexible Couplings for Shafting, Turbopumps, and Turboblowers.
Claims use since July 1, 1921.

177,832. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LUCE CANE HARVESTER CORPORATION, New York, N. Y. Filed July 29, 1922. Serial No. 167,574.

LUCE

Particular description of goods.—Harvesters for Sugar Cane and the Like and Parts Thereof.
Claims use since about March, 1915.

177,833. (CLASS 45. BEVERAGES, NONALCOHOLIC.) BROCTON FRUIT PRODUCTS COMPANY, Brocton, N. Y. Filed Jan. 29, 1921. Serial No. 142,917.

Harvard

Particular description of goods.—Cider and Grape Juice.
Claims use since July 1, 1919.

177,834. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VICTOR HALPER, New York, N. Y. Filed Nov. 6, 1920. Serial No. 139,269.

YOHIMBIN
„HENNING"

Particular description of goods.—A Medicinal Preparation Indicated as a Specific for Insufficiency of the Hormones of the Reproductive Glands and the Glands of Internal Secretion, Eunucholdism, Climacterium, Virile, and Conditions of Physical and Nervous Debility.
Claims use since about Mar. 10, 1920.

177,835. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NATIONAL LIFE PRESERVER COMPANY, Sheridan, Wyo., and New York, N. Y. Filed Sept. 8, 1917. Serial No. 106,142.

EVER-WARM
SAFETY-SUIT

Particular description of goods.—Life Preservers.
Claims use since about 15th day of November, 1915.

177,836. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) ADVANCE AUTOMOBILE ACCESSORIES CORP., Chicago, Ill. Filed June 15, 1922. Serial No. 165,519.

CORK FELTBAK

Particular description of goods.—Linings for Transmissions and Brakes.
Claims use since about the 25th day of May, 1922.

177,837. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SHEPARD ELECTRIC CRANE & HOIST COMPANY, Montour Falls, N. Y. Filed May 24, 1922. Serial No. 164,458.

LIFT ABOUT

Particular description of goods.—Electrically-Operated Hoisting Machinery.
Claims use since Feb. 1, 1922.

177,838. (CLASS 37. PAPER AND STATIONERY.) THE SHELBY WAX PAPER CO., Shelby, Ohio, assignor to The Crystal Waxing Company, Middletown, Ohio. Filed May 16, 1922. Serial No. 163,951.

SUPERIOR

The trade-mark is printed in colors, the body portion being red, each letter having a blue border contiguous with the red.
Particular description of goods.—Sheets of Wax Paper in Packages.
Claims use since Jan. 14, 1922.

177,839. (CLASS 12. CONSTRUCTION MATERIALS.) STANDARD COMFORT WINDOW CORPORATION, New York, N. Y. Filed Jan. 21, 1922. Serial No. 158,256.

STANDARD COMFORT
WINDOW CORP.

Particular description of goods.—Windows and Window Frames.
Claims use since Oct. 19, 1921.

177,840. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SHINOLA COMPANY, Rochester, N. Y. Filed Nov. 1, 1923. Serial No. 187,897.



Particular description of goods.—Shoe Polish.
Claims use since about Jan. 1, 1900.

177,841. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) PARK IMPORTING CO., New York, N. Y. Filed Oct. 12, 1923. Serial No. 186,925.

VOGUE

Particular description of goods.—Artificial-Pearl and Bead Necklaces.
Claims use since 1915.

177,842. (CLASS 45. BEVERAGES, NONALCOHOLIC.) SNAPP BOTTLING CO., INC., St. Louis, Mo. Filed Oct. 3, 1923. Serial No. 186,529.

DRINK SNAPPY
SNAPP
"SNAPPY DRINK"
Manufactured By
SNAPP BOTTLING CO. INC.
St. Louis, Mo.

Particular description of goods.—Nonalcoholic, Maltless Beverages Sold as Soft Drink.
Claims use since January, 1919.

177,843. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. F. BROOKS & SONS, Bagwell, Tex. Filed Sept. 27, 1923. Serial No. 186,270.

YARBROUGH'S

Particular description of goods.—Rheumatic Oil.
Claims use since Mar. 1, 1914.

177,844. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL RENOVATING & SUPPLY CO., Kansas City, Mo. Filed Aug. 20, 1923. Serial No. 185,136.

NATIONAL

Particular description of goods.—Toilet Flush—Namely, a Dirt and Stain Solvent and Remover.
Claims use since Aug. 1, 1921.

177,845. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) BUFFALO METER COMPANY, Buffalo, N. Y. Filed July 5, 1923. Serial No. 182,786.

AMERICAN

Particular description of goods.—Quantity Meters for Measuring Water, Oil, and Other Liquids.
Claims use since Jan. 1, 1900.

177,846. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DINGS MAGNETIC SEPARATOR CO., Milwaukee, Wis. Filed June 9, 1923. Serial No. 181,736.

Dings High Intensity

Particular description of goods.—Magneta and Magnetic Separators.
Claims use since Oct. 26, 1922.

177,847. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) LANSBURGH & BRO., INC., Washington, D. C. Filed Dec. 27, 1922. Serial No. 173,892.

Lansburgh & Bro.

Particular description of goods.—A Disk-Record Brush Adapted for Attachment to the Sound Box of a Talking Machine, Phonographs, Talking Machines, Needles for Talking Machines, Record Albums, Record-Cleaning Attachment and Wipers Therefor, Records for Sound-Reproducing Machines, Phonograph Records, Talking-Machine Springs, and Tone Arms for Talking Machines.
Claims use since 1915.

TRADE-MARK REGISTRATIONS RENEWED.

21,844. WHIPS. Registered October 4, 1892, to POMEROY & VAN DEUSEN. Renewed October 4, 1922, to H. M. Van Deusen Whip Co., Westfield, Mass., assignee.

23,823. PHARMACEUTICAL OR DIETETICAL COMPOUNDS. Registered November 14, 1893, to FARBENFABRIKEN, FORMALS FR. BAYER & Co., Elberfield, Germany. Renewed November 14, 1923, to Winthrop Chemical Co. Inc., New York, N. Y., a Corporation of New York, assignee.

23,874. CIGARS. Registered November 28, 1893, to EDWIN F. LAW. Renewed November 28, 1923, to J. E. Sherts, doing business as Sherts Cigar Company, Lancaster, Pa., assignee.

23,919. WHITE LEAD. Registered December 12, 1893, to WHITTIER, FULLER & Co. Renewed December 12, 1923, to W. P. Fuller & Co., San Francisco, Calif., assignee.

24,051. REFINED PETROLEUM FOR INTERNAL AND EXTERNAL REMEDIES FOR DISEASE. Registered January 16, 1894, to ANGIER CHEMICAL Co., Boston, Mass. Renewed January 16, 1924.

24,094. MEDICINAL AGENTS FOR USE IN URINARY DISEASES. Registered January 23, 1894, to THE FIRM OF E. MERCK, Darmstadt, Germany. Renewed January 23, 1924, to The Chemical Foundation, Incorporated, Wilmington, Del., a Corporation of Delaware, assignee.

24,228. IRON DERIVATIVES OF ALBUMEN. Registered February 13, 1894, to C. F. BOEHRINGER & SOEHNE, Waldhof, near Mannheim, Germany. Renewed February 13, 1924, to The Chemical Foundation, Incorporated, Wilmington, Del., a Corporation of Delaware, assignee.

24,258. A MEDICINAL PREPARATION FOR LIVER DISEASES. Registered February 20, 1894, to J. H. ZEILIN & Co., INCORPORATED, Philadelphia, Pa. Renewed February 20, 1924, to C. F. Simmons Medicine Co. Incorporated, St. Louis, Mo., a Corporation of Missouri, assignee.

24,272. FIRE BRICK, TILE, AND ARTICLES MADE OF FIRE CLAY. Registered February 20, 1894, to HARBISON & WALKER. Renewed February 20, 1924, to Harbison-Walker Refractories Company, Pittsburgh, Pa., a Corporation of Pennsylvania, assignee.

24,273. FIRE BRCK, TILE, AND ARTICLES MADE OF FIRE CLAY. Registered February 20, 1894, to HARBISON & WALKER. Renewed February 20, 1924, to Harbison-Walker Refractories Company, Pittsburgh, Pa., a Corporation of Pennsylvania, assignee.

24,281. NATURAL MINERAL WATER. Registered February 27, 1894, to Stafford Mineral Springs & Hotel Co. Ltd., New Orleans, La. Renewed February 27, 1924.

24,368. ROLL-TOP DESKS. Registered March 13, 1894, to STANDARD FURNITURE COMPANY. Renewed March 13, 1924, to Standard Furniture Co., Herkimer, N. Y., assignee.

24,604. LUBRICATING OILS. Registered April 24, 1894, to SENECA OIL WORKS, Warren, Pa. Renewed April 24, 1924.

24,657. LEATHER GOODS. Registered May 8, 1894, to J. B. BROOKS & Co. Renewed May 8, 1924, to J. B. Brooks and Company Limited, Birmingham, England, assignee.

24,726. CERTAIN NAMED REMEDIES. Registered May 15, 1894, to JOSEPH F. O'HERN. Renewed May 15, 1924, to Joseph F. O'Hern, jr., Waltham, Mass., assignee.

LABELS

REGISTERED DECEMBER 25, 1923.

26,710.—*Title:* THE FIERY CROSS—THE GREAT KU KLUX PROBLEM. For a Game Problem. GUY EDWIN BADGER, Okemah, Okla. Published September 20, 1923.

26,711.—*Title:* MOONSTONE BRAND SELECT SWEET JUNE WISCONSIN PEAS. For Canned Peas. BEAVER CANNING COMPANY, Randolph, Wis. Published October 18, 1923.

26,712.—*Title:* BEAVER DAM BRAND WISCONSIN SELECT SWEET JUNE PEAS. For Canned Peas. BEAVER CANNING COMPANY, Randolph, Wis. Published October 18, 1923.

26,713.—*Title:* GREEN TREE INN BRAND EARLY JUNE WISCONSIN PEAS. For Canned Peas. BEAVER CANNING COMPANY, Randolph, Wis. Published October 18, 1923.

26,714.—*Title:* SCHOOL DAYS BRAND WISCONSIN SWEET JUNE SWEET VARIETY PEAS SIZE 5. For Canned Peas. BEAVER CANNING COMPANY, Randolph, Wis. Published October 18, 1923.

26,715.—*Title:* RADIUM BRAND SELECT EARLY JUNE PEAS. For Canned Peas. BEAVER CANNING COMPANY, Randolph, Wis. Published October 18, 1923.

26,716.—*Title:* MORNING BLOOM BRAND WISCONSIN PEAS. For Canned Peas. BEAVER CANNING COMPANY, Randolph, Wis. Published October 18, 1923.

26,717.—*Title:* BAGPIPE BRAND WISCONSIN SELECT EARLY JUNE EARLY VARIETY PEAS SIZE 4. For Canned Peas. BEAVER CANNING COMPANY, Randolph, Wis. Published October 18, 1923.

26,718.—*Title:* ITALO FRENCH BRAND ALIMENTARY PASTES. For Macaroni. JOHN CUDA, Pittsburgh, Pa. Published October 1, 1923.

26,719.—*Title:* DICKINSON'S EVERGREEN. For Grass Seed. THE ALBERT DICKINSON COMPANY, Chicago, Ill. Published November 6, 1923.

26,720.—*Title:* GULBRANSEN INSTRUCTION ROLL, THIRD EDITION. For Instruction Rolls for Player Pianos. GULBRANSEN-DICKINSON CO., Chicago, Ill. Published August 25, 1923.

26,721.—*Title:* SUN REIGN. For Fresh Grapes. CHESTER T. JOHNS, Cucamonga, Calif. Published November 2, 1923.

26,722.—*Title:* SCOTCH BOB BUTTER SCOTCH ICE CREAM. For Butter-Scotch Ice Cream. KAY-WHITE PRODUCTS, INC., New York, N. Y. Published October 19, 1923.

26,723.—*Title:* PAUL DRESSER. For Cigars. VICTOR LEVOR, Attica, Ind. Published October 15, 1923.

26,724.—*Title:* STORCK'S NEW LIFE BREAD. For Bread. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Storck Baking Company, Parkersburg, W. Va. Published November 5, 1923.

26,725.—*Title:* PURE FOOD. For Butter. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Prairie du Chien Creamery Company, Prairie du Chien, Wis. Published November 5, 1923.

26,726.—*Title:* DOPPEL BRÄU BEER. For Beer. PABST CORPORATION, Milwaukee, Wis. Published January 2, 1923.

26,727.—*Title:* CALIFORNIA SUN-SWEETENED RAISINS NUTS. For Raisins and Nuts. PARK & SON, Brooklyn, N. Y. Published August 28, 1923.

26,728.—*Title:* AMERICAN DENTAL EMERGENCY KIT. For Medicated Tooth Filling. HARRY H. SHAPIRO, New York, N. Y. Published July 1, 1923.

26,729.—*Title:* VITOMEN SHREDS. For Cereal. VITOMEN CEREAL COMPANY, Renton, Wash. Published September 20, 1923.

26,730.—*Title:* WARD'S DE LUXE FRUIT CAKE. For Cake. WARD BAKING COMPANY, New York, N. Y. Published November 13, 1923.

26,731.—*Title:* ELMWOOD CLUB. For Coffee. THOMAS J. WEBB COMPANY, Chicago, Ill. Published May 24, 1923.

26,732.—*Title:* MOUNT VERNON. For Coffee. THOMAS J. WEBB COMPANY, Chicago, Ill. Published May 24, 1923.

26,733.—*Title:* THOMAS J. WEBB. For Coffee. THOMAS J. WEBB COMPANY, Chicago, Ill. Published May 24, 1923.

26,734.—*Title:* UNCLE WIGGILY WATER COLORS. For Paint Boxes. FRED A. WISH, INC., New York, N. Y. Published August 17, 1923.

PRINTS

REGISTERED DECEMBER 25, 1923.

7,099.—*Title:* FRISCH FRESH FEELING BREAD WRAPPERS. For Bread Wrappers. AMERICAN BREAD WRAPPER COMPANY, Chicago, Ill. Published November 8, 1923.

7,100.—*Title:* THE FIERY CROSS—THE GREAT KU KLUX PROBLEM. For a Game Problem. GUY EDWIN BADGER, Okemah, Okla. Published September 20, 1923.

7,101.—*Title:* REST ASSURED. For Beds, Bedding, and Bedding Supplies. MARTIN BRANNER, New York, N. Y. Published November 9, 1923.

7,102.—*Title:* SAVING JELL-O. For Jell-O, a Dessert Preparation. THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Published August 1, 1923.

7,103.—*Title:* THE WEDDING PRESENT. For Jell-O, a Dessert Preparation. THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Published November 1, 1923.

7,104.—*Title:* THE HAPPY FAMILY. For Jell-O, a Dessert Preparation. THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Published November 15, 1923.

7,105.—*Title:* THE FIGURINES. For Jell-O, a Dessert Preparation. THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Published November 1, 1923.

7,106.—*Title:* THE EYE IS FORERUNNER OF THE PALATE. For Jell-O, a Dessert Preparation. THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Published November 1, 1923.

7,107.—*Title:* WHERE BEAUTY BEGINS. For Palmolive Soap. THE PALMOLIVE COMPANY, Milwaukee, Wis. Published November 20, 1923.

7,108.—*Title:* OCEAN POWER PRODUCTS. For Machinery for the Development of Power from Tides, Currents, and Other Water Movements. CHARLES G. POLLEYS, West Somerville, Mass. Published November 12, 1923.

7,109.—*Title:* 50-50 COTTON SEED. For Cotton Seed. SUMMEROUR & SON, Vernon, Tex. Published November 7, 1923.

7,110.—*Title:* WISS GUARANTEE TAG. For Snips. J. WISS & SONS CO., INC., Newark, N. J. Published October 15, 1923.

REISSUES

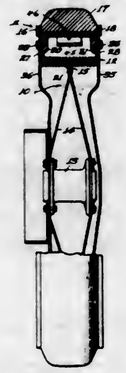
DECEMBER 25, 1923.

15,735. PORTABLE ELECTRIC LIGHT. JOHN T. DRUFVA, Longmeadow, Mass., assignor to Henry Hyman & Co., Inc., New York, N. Y., a Corporation of New York. Filed Nov. 8, 1920. Serial No. 422,737. Original No. 1,320,846, dated Nov. 4, 1919, Serial No. 208,346, filed Dec. 22, 1917. 34 Claims. (Cl. 240—8.5.)



1. In a battery hand lamp having a casing provided with a metallic part, and having a metallic reflector in the lamp circuit, insulating means adapted to support said reflector on but out of contact with the metallic part, comprising, an insulating element engaging the reflector and a reinforcing rim surrounding said element and engaging the metallic part.

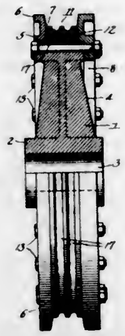
15,736. WHEEL. WALTER B. KERRICK, Los Angeles, Calif. Filed Nov. 22, 1921. Serial No. 517,146. Original No. 1,377,353, dated May 10, 1921, Serial No. 289,964, filed Apr. 14, 1919. 11 Claims. (Cl. 152—37.)



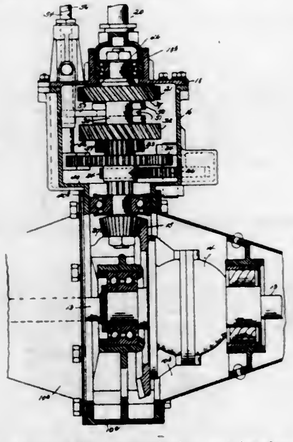
11. In a wheel, an outer member and an inner member, a series of spiral springs extending laterally from said inner member, a pair of ring plates having arcuate channels engageable with the end spirals of said springs, said channels having end walls against which the ends of said springs abut, and means cooperating with said rings for detachably connecting said springs to the outer member collectively.

15,737. SHEAVE. MICHAEL E. NEENAN, New York, N. Y., assignor to Neenan Elevator Corporation, a Corporation of New York. Filed May 28, 1923. Serial No. 642,125. Original No. 1,442,899, dated Jan. 23, 1923, Serial No. 492,896, filed Aug. 17, 1921. 8 Claims. (Cl. 64—45.)

1. A device of the character described comprising a sheave supporting body, a reception drum formed thereon, a series of twisted tarred rope ends set radially to the axis of said drum adapted to form a peripheral traction tread therefor, and a locking plate mounted on said drum and engaging said traction tread arranged to hold said tread in position thereon.



15,738. TRANSMISSION MECHANISM FOR AUTOMOBILES. ALANSON P. BRUSH, Detroit, Mich. Filed Mar. 5, 1920. Serial No. 363,524. Original No. 1,291,391, dated Jan. 14, 1919, Serial No. 173,259, filed June 7, 1917. 8 Claims. (Cl. 74—59.)



1. In an automobile transmission mechanism, the combination of a driving shaft, an intermediate shaft parallel thereto, mechanism constantly operated to transmit motion from said intermediate shaft to the driving wheels of the automobile, a pair of spiral gears of different diameters on the driving shaft, a pair of spiral gears of different diameters on the intermediate shaft constantly in mesh with the spiral gears on the driving shaft, the said spiral gears being fast to one of said shafts and being loosely mounted on the other shaft, means by which to connect either or neither of the last mentioned gears with the shaft upon which they are loosely mounted, two gears fixed to one of said shafts, an idler gear in constant mesh with one of said gears, and a gear slidably mounted upon the other shaft and having a driving connection therewith and adapted to be moved into and out of engagement with one of the last mentioned gears fixed to the shaft on which it is mounted or with the said idler gears.

DESIGNS

DECEMBER 25, 1923.

63,601. LOOP FOR LIGHTING FIXTURES. GEORGE AINSWORTH, Great Neck, N. Y. Filed May 25, 1923. Serial No. 6,275. Term of patent 3½ years.



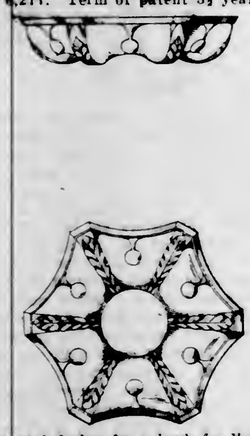
The ornamental design for a loop for lighting fixtures, as shown.

63,602. ARM FOR LIGHTING FIXTURES. GEORGE AINSWORTH, Great Neck, N. Y. Filed May 25, 1923. Serial No. 6,276. Term of patent 3½ years.



The ornamental design for an arm for lighting fixtures, as shown.

63,603. HUSK FOR LIGHTING FIXTURES. GEORGE AINSWORTH, Great Neck, N. Y. Filed May 25, 1923. Serial No. 6,277. Term of patent 3½ years.



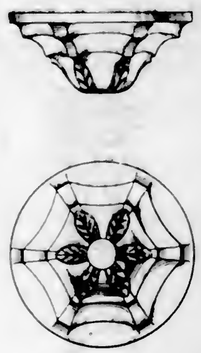
The ornamental design for a husk for lighting fixtures, as shown.

63,604. LOOP FOR LIGHTING FIXTURES. GEORGE AINSWORTH, Great Neck, N. Y. Filed May 25, 1923. Serial No. 6,278. Term of patent 3½ years.



The ornamental design for a loop for lighting fixtures, as shown.

63,605. CANOPY FOR LIGHTING FIXTURES. GEORGE AINSWORTH, Great Neck, N. Y. Filed May 25, 1923. Serial No. 6,279. Term of patent 3½ years.



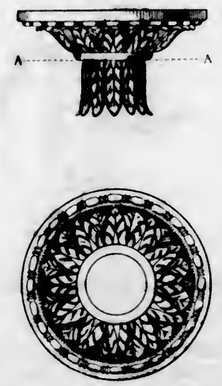
The ornamental design for a canopy for lighting fixtures, as shown.

63,606. SOCKET COVER FOR LIGHTING FIXTURES. GEORGE AINSWORTH, Great Neck, N. Y. Filed May 25, 1923. Serial No. 6,280. Term of patent 3½ years.



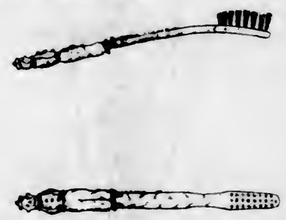
The ornamental design for a socket cover for lighting fixtures, as shown.

63,607. CEILING LIGHT FOR LIGHTING FIXTURES. GEORGE AINSWORTH, Great Neck, N. Y. Filed May 25, 1923. Serial No. 6,281. Term of patent 3½ years.



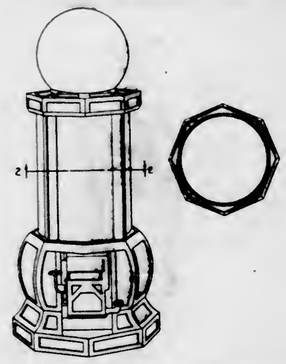
The ornamental design for a ceiling light for lighting fixtures, as shown.

63,608. CHILD'S TOOTHBRUSH. JAMES W. BEVANS, Hackensack, N. J. Filed Aug. 23, 1923. Serial No. 7,066. Term of patent 7 years.



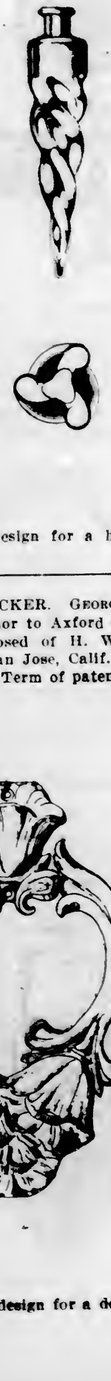
The ornamental design for a child's toothbrush, as shown.

63,609. VENDING-MACHINE HOUSING. EARL C. BOOTH, Indianapolis, Ind., assignor to Holcomb & Hoke Mfg. Co., Indianapolis, Ind., a Corporation. Filed Feb. 5, 1923. Serial No. 5,018. Term of patent 7 years.



The ornamental design for a vending machine housing, as shown.

63,610. BOTTLE. WILLIAM S. BREEDEN, Millville, N. J. Filed July 23, 1923. Serial No. 6,838. Term of patent 14 years.



The ornamental design for a bottle substantially as shown.

63,611. DOOR KNOCKER. GEORGE CAWTHRON, Redwood City, Calif., assignor to Axford and De Shields, a Copartnership composed of H. W. Axford and A. De Shields, both of San Jose, Calif. Filed Aug. 30, 1923. Serial No. 7,123. Term of patent 3½ years.



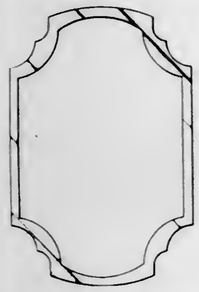
The ornamental design for a door knocker as shown.

63,612. CHAIR. HENRY FINCH CHATFIELD, Syracuse, N. Y. Filed July 2, 1923. Serial No. 6,634. Term of patent 3½ years.



The ornamental design for a chair substantially as shown.

63,613. INSTRUMENT BEZEL. AXEL CLEVEN, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed May 3, 1922. Serial No. 2,070. Term of patent 14 years.



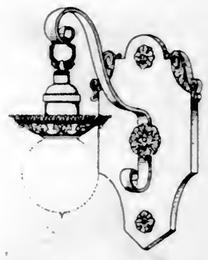
The ornamental design for an instrument bezel substantially as shown.

63,614. HAND BAG. MATHIAS CRAIG, Benton, Ill. Filed Sept. 20, 1923. Serial No. 7,276. Term of patent 3½ years.



The ornamental design for a hand bag, as shown.

63,615. BRACKET FOR A LIGHTING FIXTURE. FRANK S. CROWELL, Toledo, Ohio. Filed June 6, 1923. Serial No. 6,395. Term of patent 3½ years.



The ornamental design for a bracket for a lighting fixture, as shown.

63,616. LANTERN FOR LIGHTING FIXTURE. FRANK S. CROWELL, Toledo, Ohio. Filed June 6, 1923. Serial No. 6,397. Term of patent 3½ years.



The ornamental design for a lantern for lighting fixture, as shown.

63,617. LANTERN FOR LIGHTING FIXTURE. FRANK S. CROWELL, Toledo, Ohio. Filed June 6, 1923. Serial No. 6,398. Term of patent 3½ years.



The ornamental design for a lantern for lighting fixture, as shown.

63,618. LANTERN FOR LIGHTING FIXTURE. FRANK S. CROWELL, Toledo, Ohio. Filed June 6, 1923. Serial No. 6,399. Term of patent 3½ years.



The ornamental design for a lantern for lighting fixture, as shown.

63,619. BRACKET FOR LIGHTING FIXTURE. FRANK S. CROWELL, Toledo, Ohio. Filed June 6, 1923. Serial No. 6,400. Term of patent 3½ years.



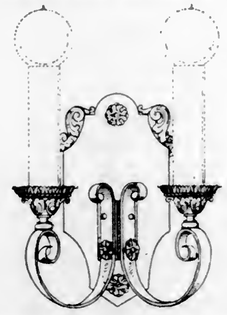
The ornamental design for a bracket for lighting fixture, as shown.

63,620. BRACKET FOR LIGHTING FIXTURE. FRANK S. CROWELL, Toledo, Ohio. Filed June 6, 1923. Serial No. 6,401. Term of patent 3½ years.



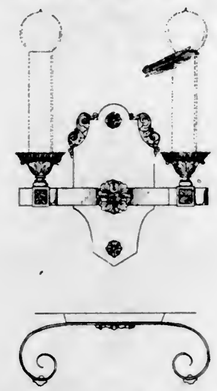
The ornamental design for a bracket for lighting fixture, as shown.

63,621. BRACKET FOR LIGHTING FIXTURE. FRANK S. CROWELL, Toledo, Ohio. Filed June 6, 1923. Serial No. 6,402. Term of patent 3½ years.



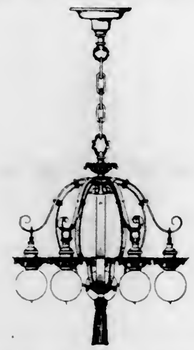
The ornamental design for a bracket for lighting fixture, as shown.

63,622. BRACKET FOR LIGHTING FIXTURE. FRANK S. CROWELL, Toledo, Ohio. Filed June 6, 1923. Serial No. 6,403. Term of patent 3½ years.



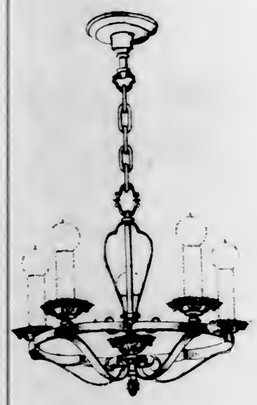
The ornamental design for a bracket for lighting fixture, as shown.

63,623. CHANDELIER FOR LIGHTING FIXTURE. FRANK S. CROWELL, Toledo, Ohio. Filed June 6, 1923. Serial No. 6,404. Term of patent 3½ years.



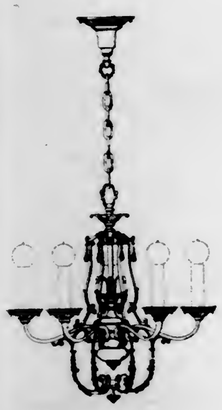
The ornamental design for a chandelier for lighting fixture, as shown.

63,624. CHANDELIER FOR LIGHTING FIXTURE. FRANK S. CROWELL, Toledo, Ohio. Filed June 6, 1923. Serial No. 6,406. Term of patent 3½ years.



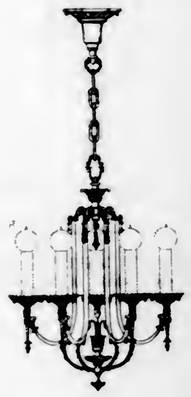
The ornamental design for a chandelier for lighting fixture, as shown.

63,625. CHANDELIER FOR LIGHTING FIXTURE. FRANK S. CROWELL, Toledo, Ohio. Filed June 6, 1923. Serial No. 6,409. Term of patent 3½ years.



The ornamental design for a chandelier for lighting fixture, as shown.

63,626. CHANDELIER FOR LIGHTING FIXTURE. FRANK S. CROWELL, Toledo, Ohio. Filed June 6, 1923. Serial No. 6,410. Term of patent 3½ years.



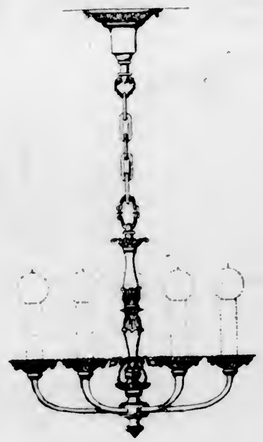
The ornamental design for a chandelier for lighting fixture, as shown.

63,627. CHANDELIER FOR LIGHTING FIXTURE. FRANK S. CROWELL, Toledo, Ohio. Filed June 6, 1923. Serial No. 6,411. Term of patent 3½ years.



The ornamental design for a chandelier for lighting fixture, as shown.

63,628. CHANDELIER FOR LIGHTING FIXTURE. FRANK S. CROWELL, Toledo, Ohio. Filed June 6, 1923. Serial No. 6,412. Term of patent 3½ years.



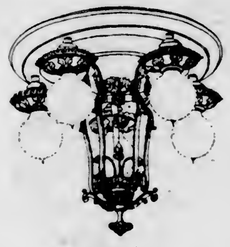
The ornamental design for a chandelier for lighting fixture, as shown.

63,629. CEILING FIXTURE FOR LIGHTING FIXTURE. FRANK S. CROWELL, Toledo, Ohio. Filed June 6, 1923. Serial No. 6,413. Term of patent 3½ years.



The ornamental design for a ceiling fixture for lighting fixture, as shown.

63,630. CEILING FIXTURE FOR LIGHTING FIXTURE. FRANK S. CROWELL, Toledo, Ohio. Filed June 6, 1923. Serial No. 6,416. Term of patent 3½ years.



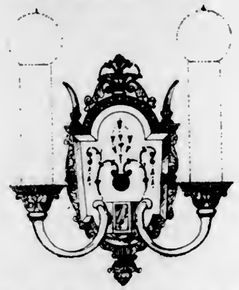
The ornamental design for a ceiling fixture for lighting fixture, as shown.

63,631. CHANDELIER FOR LIGHTING FIXTURE. FRANK S. CROWELL, Toledo, Ohio. Filed June 6, 1923. Serial No. 6,417. Term of patent 3½ years.



The ornamental design for a chandelier for lighting fixture, as shown.

63,632. BRACKET FOR LIGHTING FIXTURE. FRANK S. CROWELL, Toledo, Ohio. Filed June 6, 1923. Serial No. 6,418. Term of patent 3½ years.



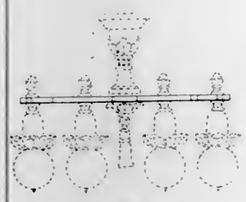
The ornamental design for a bracket for lighting fixture, as shown.

63,633. LIGHTING FIXTURE. LE ROY A. CRUMLEY, New York, N. Y., assignor to Israel J. Tombacher, New York, N. Y., and HARRY M. FELTENSTEIN, Chicago, Ill., Copartners, doing business as M. Eisenberg & Son. Filed Feb. 24, 1923. Serial No. 5,248. Term of patent 3½ years.



The ornamental design for a lighting fixture substantially as shown.

63,634. LIGHTING-FIXTURE FRAME. LE ROY A. CRUMLEY, New York, N. Y., assignor to Israel J. Tombacher, New York, N. Y., and HARRY M. FELTENSTEIN, Chicago, Ill., Copartners, doing business as M. Eisenberg & Son. Filed Feb. 24, 1923. Serial No. 5,249. Term of patent 3½ years.





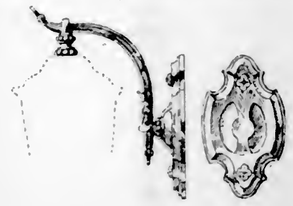
The ornamental design for a lighting fixture frame substantially as shown.

63,635. LIGHTING-FIXTURE PANEL. LE ROY A. CRUMLEY, New York, N. Y., assignor to Israel J. Tombacher, New York, N. Y., and HARRY M. FELTENSTEIN, Chicago, Ill., Copartners, doing business as M. Eisenberg & Son. Filed Feb. 24, 1923. Serial No. 5,250. Term of patent 3½ years.



The ornamental design for a lighting fixture panel substantially as shown.

63,636. BRACKET FOR LIGHTING FIXTURES OR SIMILAR ARTICLES. LE ROY A. CRUMLEY, New York, N. Y., assignor to Israel J. Tombacher, New York, N. Y., and HARRY M. FELTENSTEIN, Chicago, Ill., Copartners, doing business as M. Eisenberg & Son. Filed Feb. 24, 1923. Serial No. 5,251. Term of patent 3½ years.



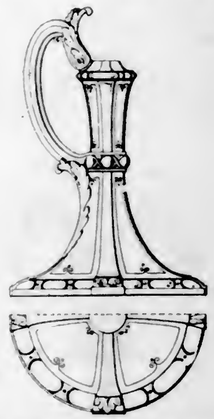
The ornamental design for a bracket for lighting fixtures or similar articles, substantially as shown.

63,637. COFFEEPOT. GEORGE E. CURTISS, New Britain, Conn., assignor to Landers, Frary and Clark, New Britain, Conn., a Corporation of Connecticut. Filed Apr. 21, 1923. Serial No. 5,886. Term of patent 14 years.



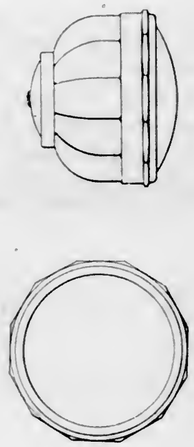
The ornamental design for a coffeepot as shown.

63,638. PEDESTAL FOR LIGHTING FIXTURES. THURE E. DAHL, New York, N. Y. Filed June 9, 1922. Serial No. 2,600. Term of patent 3½ years.



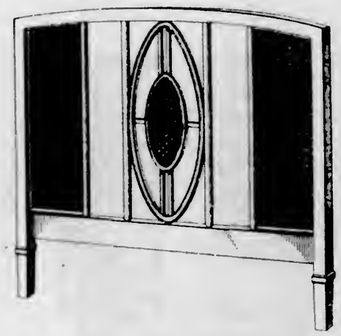
The ornamental design for a pedestal for lighting fixtures, as shown.

63,639. LAMP BODY. THOMAS I. DUFFY, Chicago, Ill., assignor to Lewis E. Bower, Chicago, Ill. Filed Mar. 27, 1922. Serial No. 1,408. Term of patent 14 years.



The ornamental design for a lamp body substantially as shown.

63,640. BEDSTEAD END FRAME. JAMES H. DYETT, Buffalo, N. Y., assignor to Hard Manufacturing Co., Buffalo, N. Y. Filed Feb. 7, 1923. Serial No. 5,110. Term of patent 3½ years.



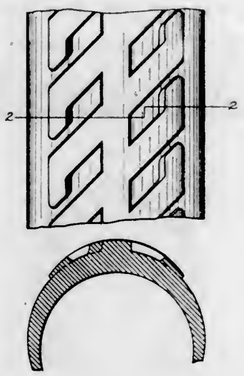
The ornamental design for a bedstead end frame, substantially as shown.

63,641. PITCHER OR SIMILAR ARTICLE. ALFRED J. FLAUDER, Bridgeport, Conn., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 29, 1923. Serial No. 5,636. Term of patent 7 years.



The ornamental design for a pitcher or similar article substantially as shown.

63,642. TIRE. HERBERT A. GITHENS, Milwaukee, Wis., assignor to The Badger Rubber Works, Milwaukee, Wis., a Corporation of Wisconsin. Filed July 6, 1921. Serial No. 482,847. Term of patent 14 years.



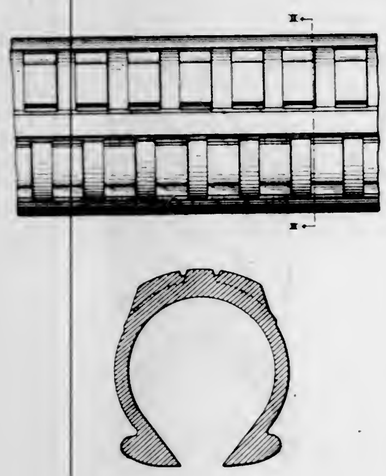
The ornamental design for a tire substantially as shown.

63,643. UPRIGHT FOR A LIGHTING UNIT. JOSEPH W. GOSLING, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 11, 1923. Serial No. 6,138. Term of patent 14 years.



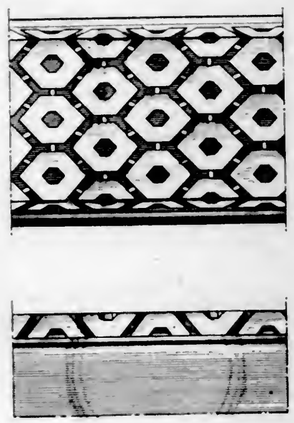
The ornamental design for an upright for a lighting unit as shown.

63,644. RESILIENT VEHICLE TIRE. SAMUEL HEINTZ, Youngatown, Ohio, assignor, by mesne assignments, to The Republic Rubber Company, a Corporation of Ohio. Filed May 26, 1922 Serial No. 2,430. Term of patent 3½ years.



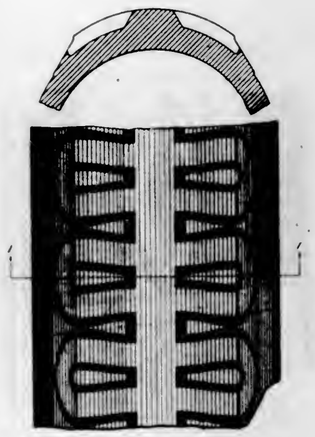
The ornamental design for a resilient vehicle tire, as shown.

63,645. AUTOMOBILE TIRE. HUGO HOFFSTAEDTER, New York, N. Y. Filed July 13, 1923. Serial No. 6,775. Term of patent 14 years.



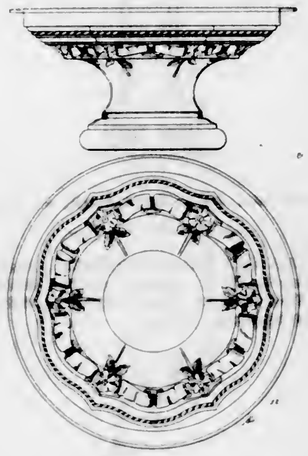
The ornamental design for an automobile tire, as shown.

63,646. RESILIENT TIRE. OSCAR D. HOLLENBECK, Racine, Wis., assignor to The Racine Horseshoe Tire Company, Racine, Wis., a Corporation of Wisconsin. Filed Sept. 6, 1923. Serial No. 7,153. Term of patent 14 years.



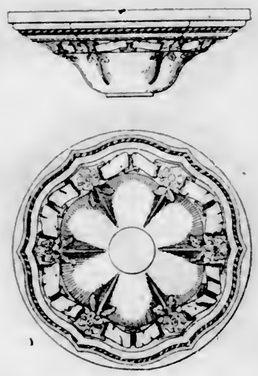
The ornamental design for a resilient tire, as shown.

63,647. CEILING LIGHT FOR LIGHTING FIXTURES. HAMILTON T. HOWELL, New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Oct. 28, 1922. Serial No. 4,123. Term of patent 14 years.



The ornamental design for a ceiling light for lighting fixtures, as shown.

63,648. CANOPY FOR LIGHTING FIXTURES. HAMILTON T. HOWELL, New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Oct. 28, 1922. Serial No. 4,127. Term of patent 14 years.



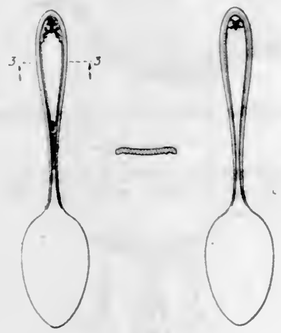
The ornamental design for a canopy for lighting fixtures as shown.

63,649. SHOE. GEORGE J. HRUSKA, Chicago, Ill. Filed June 28, 1923. Serial No. 6,605. Term of patent 3½ years.



The ornamental design for a shoe, as shown.

63,650. SPOON OR SIMILAR ARTICLE. SIDNEY V. JAMES, Niagara Falls, N. Y., assignor to The Simeon L. and George H. Rogers Company, a Corporation of Connecticut. Filed Nov. 23, 1922. Serial No. 4,371. Term of patent 14 years.



The ornamental design for a spoon or similar article as shown.

63,651. SPOON OR SIMILAR ARTICLE. ALFRED G. KINTS, Wallingford, Conn., assignor to International Silver Company, Meriden, Conn., a Corporation of New Jersey. Filed Apr. 5, 1923. Serial No. 5,701. Term of patent 14 years.



The ornamental design for a spoon or similar article, as shown.

63,652. TOY. LILLIAN CROCKETT LOWDER, Indianapolis, Ind. Filed June 26, 1922. Serial No. 2,827. Term of patent 14 years.



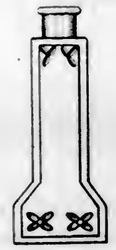
The ornamental design for a toy, as shown.

63,653. CHANDELIER. THOMAS J. MALONEY, St. Louis, Mo. Filed July 10, 1922. Serial No. 3,029. Term of patent 3½ years.



The ornamental design for a chandelier as shown.

63,654. BOTTLE. LOUIS B. NEWELL, Baltimore, Md., assignor to Carr-Lowrey Glass Co., Baltimore, Md. Filed Jan. 7, 1922. Serial No. No. 98. Term of patent 7 years.



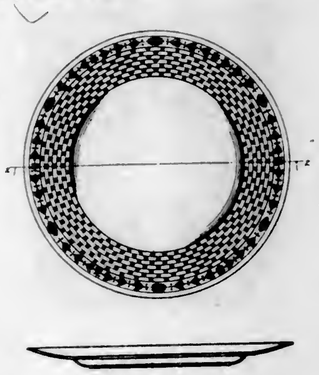
The ornamental design for a bottle, as shown.

63,655. ARM FOR LAMP FIXTURES. ALBERT J. D. OHM, Astoria, N. Y., assignor to Max Schaffer Company. Filed July 23, 1923. Serial No. 6,823. Term of patent 3½ years.



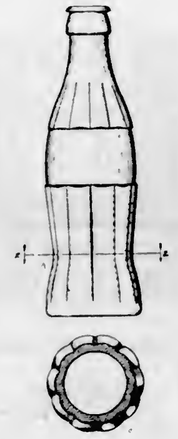
The ornamental design for an arm for lamp fixtures as shown.

63,656. PLATE OR SIMILAR ARTICLE. WILLIAM S. PITCAIRN, East Orange, N. J., assignor to William S. Pitcairn Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 1, 1923. Serial No. 5,335. Term of patent 7 years.



The design for a plate or similar article as shown.

63,657. BOTTLE. CHAPMAN J. ROOT, Terre Haute, Ind. Filed Feb. 4, 1922. Serial No. 528. Term of patent 14 years.



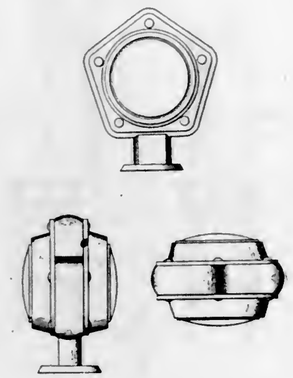
The ornamental design for a bottle, as shown.

63,658. LIGHTING-FIXTURE ARM. ISIDOR ROSENBLATT, Brooklyn, N. Y. Filed June 18, 1923. Serial No. 6,527. Term of patent 3½ years.



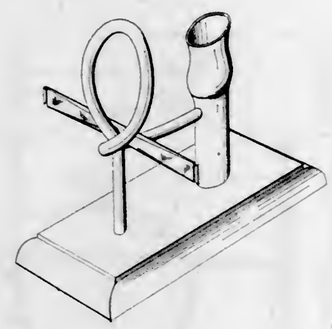
The ornamental design for a lighting fixture arm, as shown.

63,659. VEHICLE LAMP. FRANK A. ROSS, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Mar. 10, 1922. Serial No. 1,103. Term of patent 14 years.



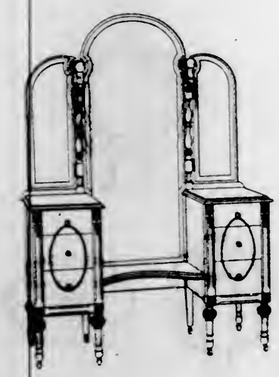
The ornamental design for a vehicle lamp substantially as shown.

63,660. CANDLESTICK. ALEXANDER S. ROWLAND, New York, N. Y. Filed May 10, 1923. Serial No. 6,126. Term of patent 7 years.



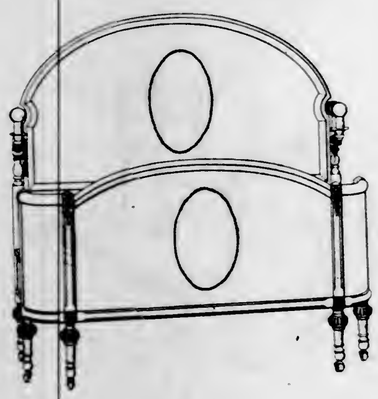
The ornamental design for a candlestick, as shown.

63,661. VANITY DRESSER. WALTER M. SCHMITT, Evansville, Ind., assignor to Quality Furniture Company, Evansville, Ind. Filed Mar. 12, 1923. Serial No. 5,445. Term of patent 3½ years.



The ornamental design for a vanity dresser, as shown.

63,662. BED. WALTER M. SCHMITT, Evansville, Ind., assignor to Quality Furniture Company, Evansville, Ind. Filed Mar. 12, 1923. Serial No. 5,446. Term of patent 3½ years.



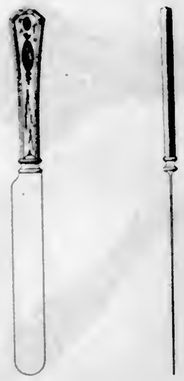
The ornamental design for a bed, as shown.

63,663. BUREAU. WALTER M. SCHMITT, Evansville, Ind., assignor to Quality Furniture Company, Evansville, Ind. Filed Mar. 12, 1923. Serial No. 5,447. Term of patent 3½ years.



The ornamental design for bureau, as shown.

63,664. KNIFE OR SIMILAR ARTICLE. JOSEPH B. SHERMAN, Meriden, Conn. Filed Sept. 12, 1923. Serial No. 7,184. Term of patent 7 years.



The ornamental design for a knife or similar article as shown.

63,665. RESILIENT TIRE. HAROLD O. SMITH, Indianapolis, Ind., assignor to The Racine Horseshoe Tire Company, Racine, Wis., a Corporation of Wisconsin. Filed Jan. 19, 1923. Serial No. 4,935. Term of patent 14 years.



The ornamental design for a resilient tire, as shown.

63,666. SACHET BAG OR SIMILAR ARTICLE. JOSEPHINE F. STEWART, Washington, D. C. Filed July 24, 1923. Serial No. 6,851. Term of patent 14 years.



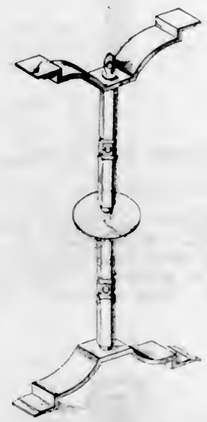
The ornamental design for a sachet bag or similar article, as shown.

63,667. DOLL. BARNEY TEMBLATT, Minneapolis, Minn. Filed Sept. 4, 1923. Serial No. 7,148. Term of patent 3½ years.



The ornamental design for a doll as shown.

63,668. STORE DISPLAY STAND OR SIMILAR ARTICLE. GEORGE R. WAALER, Chicago, Ill. Filed July 23, 1923. Serial No. 6,837. Term of patent 7 years.



The ornamental design for a store display stand or similar article as shown.

63,669. WATCHCASE. ARTHUR W. WADSWORTH and ARTHUR P. CONANT, Fort Thomas, Ky., assignors to The Wadsworth Watch Case Company, Dayton, Ky., a Corporation of Kentucky. Filed June 26, 1923. Serial No. 6,569. Term of patent 14 years.



The ornamental design for a watchcase, substantially as shown.

63,670. WATCHCASE. ARTHUR W. WADSWORTH and ARTHUR P. CONANT, Fort Thomas, Ky., assignors to The Wadsworth Watch Case Company, Dayton, Ky., a Corporation of Kentucky. Filed June 26, 1923. Serial No. 6,570. Term of patent 14 years.



The ornamental design for a watchcase, substantially as shown.

63,671. WATCHCASE. ARTHUR W. WADSWORTH and ARTHUR P. CONANT, Fort Thomas, Ky., assignors to The Wadsworth Watch Case Company, Dayton, Ky., a Corporation of Kentucky. Filed June 26, 1923. Serial No. 6,571. Term of patent 14 years.



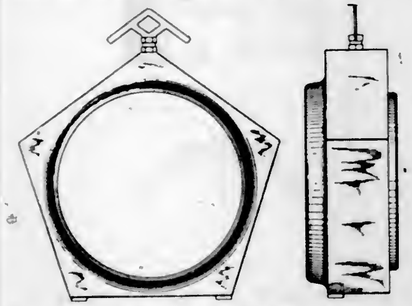
The ornamental design for a watchcase, substantially as shown.

63,672. TRIMMING BRAID FOR GARMENTS AND SIMILAR ARTICLES. ERNEST WALBRECKER, Wyomissing, Pa., assignor to The Narrow Fabric Co., West Reading, Pa., a Corporation of Pennsylvania. Filed Aug. 28, 1623. Serial No. 7,114. Term of patent 14 years.



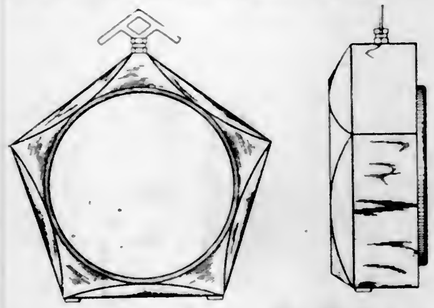
The ornamental design for trimming braid for garments and similar articles, as shown.

63,673. CLOCK CASE. RICHARD H. WHITEHEAD, New Haven, Conn., assignor to New Haven Clock Co., New Haven, Conn., a Corporation. Filed Sept. 29, 1923. Serial No. 7,362. Term of patent 14 years.



The ornamental design for a clock case as shown.

63,674. CLOCK CASE. RICHARD H. WHITEHEAD, New Haven, Conn., assignor to New Haven Clock Co., New Haven, Conn., a Corporation. Filed Sept. 29, 1923. Serial No. 7,363. Term of patent 14 years.

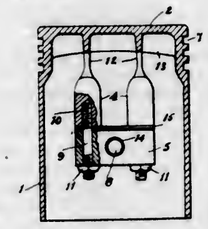


The ornamental design for a clock case as shown.

PATENTS

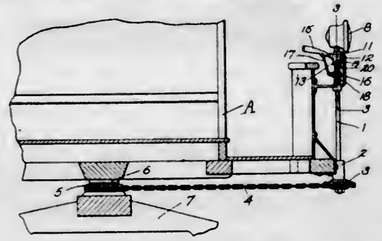
GRANTED DECEMBER 25, 1923.

1,478,368. PISTON. HENRY W. BENDER, Brooklyn, N. Y. Filed June 20, 1921. Serial No. 478,957. 2 Claims. (Cl. 74—108.)



1. A hollow piston having internally projecting lugs at diametrically opposite points, a pillow block adjustably secured to the lugs on the inside of said piston at one side thereof, and a pillow block adjustably secured in the piston to the lugs at the other side thereof, whereby the distance of said blocks from the top of the piston can be varied, said blocks having alined openings to receive a wrist pin.

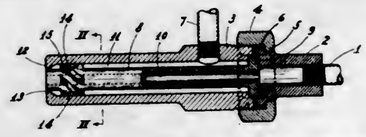
1,478,369. MOVABLE HEADLIGHT. LUKE ALLEN, Little Rock, S. C. Filed Aug. 9, 1922. Serial No. 580,735. 1 Claim. (Cl. 240—61.)



In a motor vehicle, upper and lower brackets at the front thereof, a shaft rotatably mounted in said brackets, means for connecting the lower end of the shaft with a part of the turning means of the vehicle, a lamp, a shank connected therewith and rotatably engaging the upper end of the shaft, an extension on the upper bracket forming a bearing for the shank, a clutch part connected with the shank, a clutch part connected with the shaft and having an annular groove therein, a collar rotatably mounted on the shaft, a handle connected with the clutch part on the shank, a brace connecting the handle with the collar, links connecting the collar with the clutch collar, pins in the links engaging the groove in the clutch collar and a spring engaging the rotary collar for normally holding the clutch parts in engagement with each other.

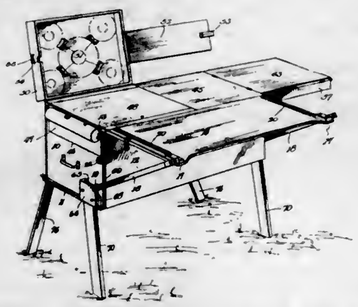
1,478,370. BURNER NOZZLE. WILLIAM T. ADOLPHSEN, Verona, Pa. Filed Mar. 25, 1922. Serial No. 546,829. 4 Claims. (Cl. 158—75.)

1. A burner for liquid fuels comprising a hollow imperforate core member adapted to carry fuel to the tip of the burner, a concentric sleeve surrounding the core and coextensive therewith, a restricting member positioned between the core and sleeve near the tip of the nozzle, the wall of the sleeve being thickened adjacent its outer extremity to form a second restricting member spaced slightly away from the first and forming a chamber therebetween, the second restricting member limiting



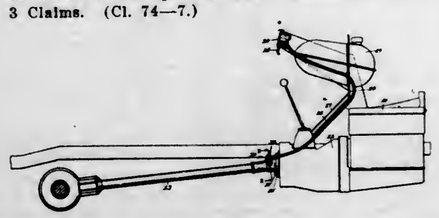
the outlet of the chamber to a narrow annular slit of cylindrical shape surrounding the tip of the fuel-carrying core, both the bore of the core and the said cylindrical annular slit terminating in the same plane.

1,478,371. CAMPING CABINET. WALTER R. ALBRIGHTON, Thornburg, Iowa. Filed Feb. 15, 1922. Serial No. 536,793. 20 Claims. (Cl. 191—12.)



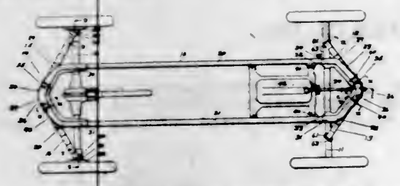
4. A camping cabinet including a casing, blocks carried thereby, a door normally closing the casing and provided with a leaf swingingly connected thereto, and legs carried by the leaf to coact with said blocks supporting the leaf to extend horizontally from the door when the door is closed.

1,478,372. SPEEDOMETER. EDWARD H. BELDEN, Toledo, Ohio, assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 25, 1918. Serial No. 230,747. 3 Claims. (Cl. 74—7.)



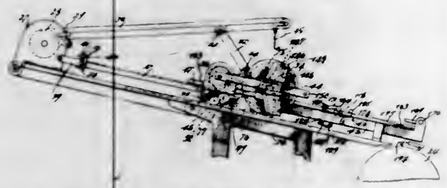
3. In a motor vehicle, a power shaft having a universal joint connecting opposite portions thereof, a housing for said shaft comprising a flexible portion enclosing said universal joint, and a driving connection mounted in said flexible portion for operative engagement with the power shaft and adapted for connection with a speedometer.

1,478,373. FRAME CONSTRUCTION. EDWARD H. BELDEN, Toledo, Ohio, assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed July 22, 1918. Serial No. 246,206. 22 Claims. (Cl. 280—106.5.)



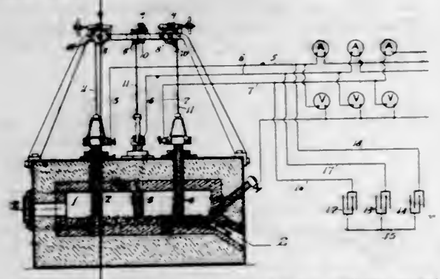
1. In a motor vehicle, substantially straight frame side bars, separate integral members for joining said side bars at front and rear, said members having ends extending longitudinally of the vehicle overlying and secured to the ends of the side bars, the intermediate portions of said members converging toward the longitudinal median line of the vehicle beyond the ends of the side bars, and a spring fixed at one end to each of said intermediate portions to extend in the same general direction thereof.

1,478,374. SHEET FEEDER. ELMER W. BELLUCHE, Watertown, Mass., assignor to George R. Swart & Company, Inc., New York, N. Y., a Corporation of New York. Filed July 28, 1920. Serial No. 399,576. 40 Claims. (Cl. 271—54.)



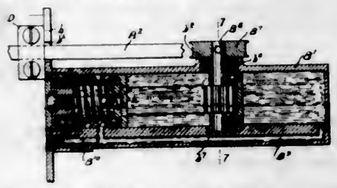
1. In a sheet-feeder, a feed-board, a main head slidably supported on the feed-board, a pivoted supply table superimposed above the feed-board and supported on the main head, and means to advance and withdraw the main head on the feed-board while raising and lowering the supply table over said main head and feed-board.

1,478,375. ELECTRIC FURNACE. MORRIS H. BENNETT, Waterbury, Conn., assignor to Scovill Manufacturing Company, a Corporation of Connecticut. Filed July 18, 1918. Serial No. 245,485. 9 Claims. (Cl. 204—64.)



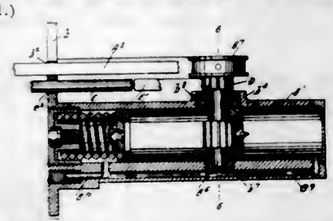
1. The combination with a furnace for melting metals, of means for delivering a main heating current directly to the charge in the furnace, and means for impressing on said main current a heating current of high frequency, the resulting current producing improved heating effects in the furnace due to the resistance of the charge to said current.

1,478,376. DOOR CLOSER AND CHECK. BENJAMIN S. BERNHARD, Boston, Mass. Filed Apr. 12, 1922. Serial No. 551,902. 11 Claims. (Cl. 16—61.)



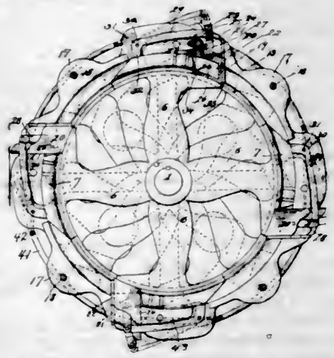
1. A device of the character described comprising a door member; a supporting member therefor; a stationary casing supported by one of said members; a piston fitting within, and cooperating with, said casing; a spring within the casing and tending normally to actuate said piston to close the door, said piston forming an abutment for said spring; means within the casing and acting on said piston to check the closing action of said piston; a rotary element operatively connected with said piston to close the door; and a flexible element operatively connected with said rotary element to close the door and extending substantially to and being connected with, the other of said members.

1,478,377. DOOR CLOSING AND CHECKING MECHANISM. BENJAMIN S. BERNHARD, Boston, Mass. Filed July 24, 1922. Serial No. 576,927. 20 Claims. (Cl. 16—61.)



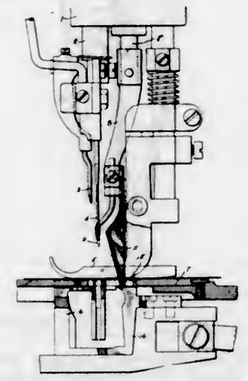
1. A device of the character described comprising a door or the like; a support therefor; means to close the door including a flexible element which extends from the door to the support; means to check the closing action of the closing means; and means additional to said checking means to stop undesired closing of the door.

1,478,378. ROTARY EXPLOSIVE ENGINE. JAMES ALDEN BROWN, Boston, Mass. Filed May 6, 1919. Serial No. 295,284. 1 Claim. (Cl. 123—14.)



A rotary explosive engine comprising a casing having explosion chambers therein and having an inner chamber to receive the exhaust from the explosion chambers, rotors carrying pistons operative in said explosion chambers, the rotors having propeller-like arms revoluble in said inner chamber, and stationary propeller-shaped arms located between the rotors.

1,478,379. ATTACHMENT FOR HEMSTITCHING MACHINES. FRED BURGERT and HENRY BURGERT, New York, N. Y. Filed July 12, 1921. Serial No. 484,112. 2 Claims. (Cl. 112—123.)



1. The combination with a hemstitching machine, including a reciprocating piercer bar, a laterally presented arm integral with the lower end of the piercer bar, and a presser foot, of a knife movable through the presser foot, and a laterally extending arm at the upper end of the knife adjustably coupled to the first mentioned arm.

1,478,380. TYPEWRITING MACHINE. MANSFIELD C. CRAWLEY, Groton, N. Y., assignor to Addograph Company, Los Angeles, Calif., a Corporation of California. Filed July 25, 1922. Serial No. 577,359. 11 Claims. (Cl. 197—138.)



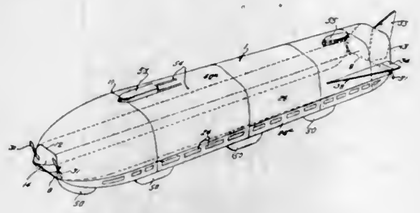
1. A paper-feeding mechanism for typewriting machines consisting of pairs of roll-carrying pivoted arms each having a depending hook-lug, a spring for each pair of arms adapted to normally force the rolls toward the platen, a bar and means for shifting it longitudinally of the platen, said bar being provided with a plurality of longitudinal cam-slots each of which is wider at one end than at the other and each of which engages a pair of hooks on the roll-carrying arms.

1,478,381. DRAWER PULL AND LABEL HOLDER. ALVIN C. CRIMMEL, Hartford City, Ind. Filed June 26, 1923. Serial No. 647,783. 5 Claims. (Cl. 40—8.)



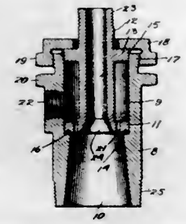
1. A drawer pull made of transparent material having a body portion provided with a recess adapted to receive a label and having an off-set handle connected with the front wall at its top and sides and open at its bottom.

1,478,382. AIRSHIP. ROCHUS MAX ZU LYNAR PASSY DE CHIMANG, New York, N. Y. Filed Dec. 23, 1921. Serial No. 524,479. 2 Claims. (Cl. 244—6.)



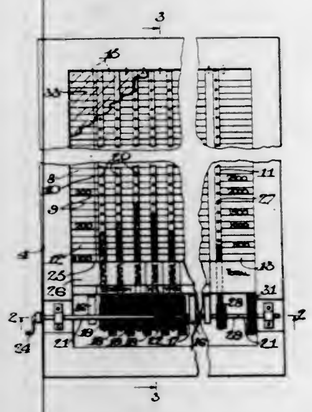
1. In an airship, the combination of an elongated rigid framework which is arch shaped in section thus forming a tunnel throughout its length, of a flat surface formed by the top of the arch, a flat surface formed by the underside of the arch, gas bags contained in the upper part of the framework, compartments such as pilot, supply rooms contained in the lower parts of the framework, a cotton material covering the gas bag containing portion of the framework, a rigid material covering the compartment containing portion and the framework, of motive power contained in the framework.

1,478,383. LOW-PRESSURE GAS BURNER. HARRY H. DODGE, Buffalo, N. Y. Filed Oct. 21, 1921. Serial No. 509,322. Renewed May 19, 1923. 5 Claims. (Cl. 158—109.)



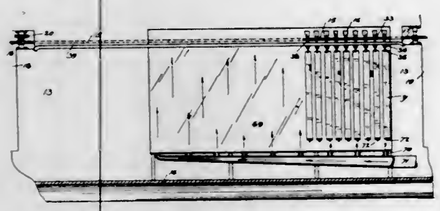
1. A device as characterized comprising an open-ended one piece body member having a cylindrical and a frustoconical section, the diameter of the inner end of the frustoconical section being smaller than the diameter of the cylindrical section to form an annular shoulder at the function of the two sections; a tubular air nozzle having a plurality of laterally extended flanges, said flanges being spaced apart a distance approximating the length of the cylindrical section of said body, the foremost flange being perforated for introducing gas to the frustoconical section of said body; means for operatively connecting said body and nozzle to hold the forward flange in juxtaposed relation to the shoulder at the junction of said cylinder and frustoconical sections; and means for rendering air and gas tight the joint between said forward flange and said shoulder, said means embodying a gasket and an aligning groove for holding the same.

1,478,384. CHART. ALBERT A. DORSCH, Milwaukee, Wis. Filed Dec. 5, 1921. Serial No. 520,057. 4 Claims. (Cl. 40—96.)



1. In a chart, the combination, of a data column and a plurality of individually movable progress indicators cooperating with said column to provide independent graphical indications, said indicators being arranged for graphical comparison.

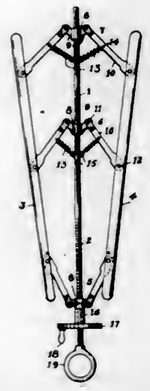
1,478,385. METHOD AND APPARATUS FOR DRYING PHOTOGRAPHIC FILMS. GLEN M. DYE, Minneapolis, Minn. Original application filed Sept. 13, 1919. Serial No. 323,593. Divided and this application filed Sept. 10, 1921. Serial No. 499,722. 3 Claims. (Cl. 34—12.)



3. A drying apparatus for photographic films having in combination, a narrow vertical drying chamber open at its ends, sprocket wheels mounted in horizontal planes at the top of said chamber at the ends thereof, an endless carrier moving over said sprockets in substantially one plane, spaced supporting means secured to said carrier beneath the same, a track beneath said carrier on which said supporting means move, means connected to said supporting means and adapted to clamp the end of and hold a film in depending relation therefrom, and means for moving said endless carrier to progress the films through said chamber.

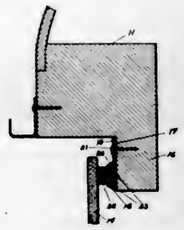
1,478,386. DEVICE FOR CREASING TROUSERS. SIDNEY R. EBERMAN and CHARLES W. FERRIS, Homestead, Pa. Filed Jan. 16, 1922. Serial No. 529,669. 1 Claim. (Cl. 223—19.)

A device for creasing trousers comprising a pair of shiftable creasing elements, a rod centrally disposed between said creasing elements, shifting elements pivotally engaging with said rod and with said pair of creasing elements, a nut threadably engaging said rod for actuating one of said shifting elements, and a pair of springs



connected with said rod and with each of the other of said shifting elements for actuating the latter and shift said creasing elements relative to said rod.

1,478,387. BODY CONSTRUCTION FOR MOTOR VEHICLES. ABUNDIUS GRAVEL, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 15, 1917. Serial No. 207,299. 1 Claim. (Cl. 296—44.)



The combination with a motor vehicle having a body including a top, said top being provided with a rail, of a door mounted to swing against said rail, a strip secured to said rail and provided with a flange extending upwardly from its lower edge and inclined at an angle to the body of said strip; a second strip secured to said portion above said first named strip, and provided with a lower flange extending at an oblique angle to the body of said strip, and a strip of felt having its base secured between said flanges, and a body portion projecting outwardly therefrom in position to be engaged by the upper edge of said door.

1,478,388. MASSAGE INSTRUMENT. DOROTHY GRAY, New York, N. Y. Filed Dec. 16, 1921. Serial No. 522,766. 2 Claims. (Cl. 128—54.)

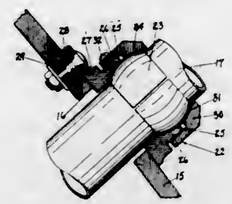
1. The instrument described, consisting of a circular disk of soft rubber, a socket flattened to form a plate imbedded in and held within said disk and moulded and

vulcanized therein and internally screw-threaded at its protruding end, said flattened plate being disposed paral-



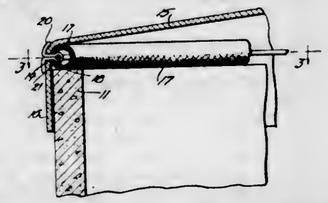
lel with the said disk a resilient rod adapted to be screwed into said socket at one end, and a soft rubber handle in which the other end of said rod is imbedded.

1,478,389. STEERING-COLUMN SUPPORT. WILLIAM F. HARRINGTON, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed July 9, 1920. Serial No. 394,936. 9 Claims. (Cl. 74—39.)



1. In a motor vehicle, a frame, a body secured thereto having an opening, a steering column secured to said frame and projecting through said opening and a universal connection between said column and body comprising an element adjustable laterally of the body for supporting said column therefrom.

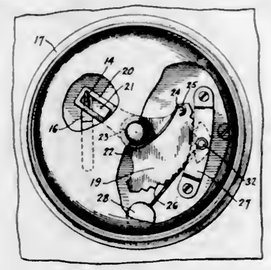
1,478,390. BATTERY RECEPTACLE. JOHN S. HOBSON, Chicago, Ill., assignor to Massey Concrete Products Corporation, Chicago, Ill., a Corporation of Virginia. Filed June 5, 1922. Serial No. 566,017. 4 Claims. (Cl. 215—37.)



1. In a cover of the character described, a central portion, a substantially cylindrical flange extending therefrom, a gasket comprising a section of hose or tub-

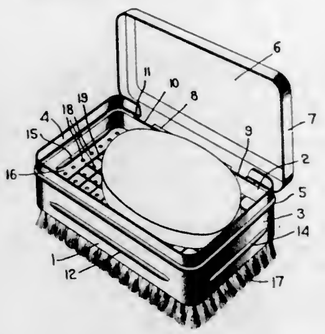
ing within said flange adjacent to said central portion, means within said tubing for forcing it against said flange, and means for securing said section of hose in position.

1,478,391. DOORBELL. VINCENZO IMPARATO, Long Island City, N. Y. Filed June 22, 1922. Serial No. 570,118. 1 Claim. (Cl. 116—161.)



A doorbell comprising an escutcheon, a lever pivoted thereto, a pin projecting from said lever and through said escutcheon, a rotatable sector provided with a recess through which said pin is free to pass, and an escapement operated by said sector, and a hammer agitated by said escapement.

1,478,392. COMBINED DETERGENT RECEPTACLE AND BRUSH. DENNIS B. KEARNEY, Keene, N. H. Filed Dec. 20, 1922. Serial No. 608,085. 4 Claims. (Cl. 15—122.)

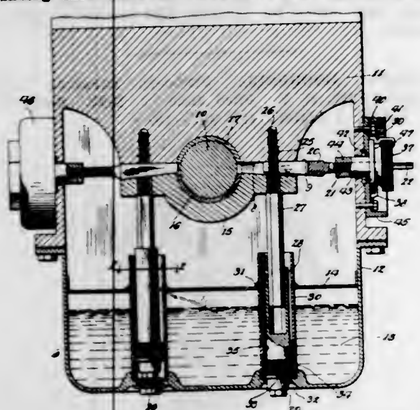


1. A combined receptacle and brush comprising a compartment, to receive a detergent, provided with a wall having tufts of bristles extending therefrom to form a brush and having means for permitting a liquid placed in said receptacle gradually to percolate to said brush and a reticulated member reciprocable in said receptacle operating to abrade the soap during the use of the brush.

1,478,393. EXTERIOR ADJUSTER FOR JOURNAL BEARINGS. CHARLES F. LIVENSPARGAR, Doniphan, Mo. Filed July 7, 1922. Serial No. 573,348. 8 Claims. (Cl. 64—55.)

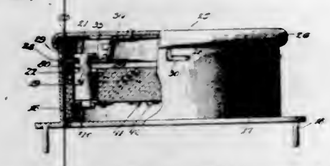
1. The combination with a journal bearing enclosed in a casing and provided with a bearing cap, of tapered shims inserted between the cap and the bearing body, bolts for securing the cap, elongated heads on said bolts, a wrench member for each head having telescopic engage-

ment therewith, a sleeve secured in said casing and surrounding said wrench member, said member having a



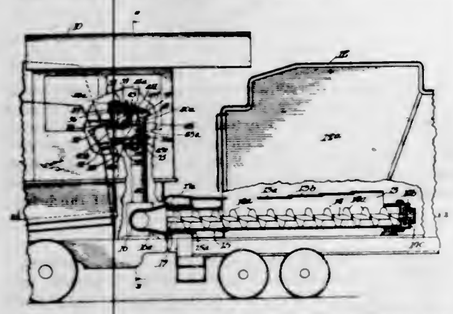
locked and an unlocked position in the sleeve, and a removable stop in said sleeve engaging with said member to hold it in its locked position.

1,478,394. PERMUTATION SWITCH FOR AUTOMOBILES. TRUMAN A. PANGBURN, Camden, N. J. Filed Oct. 31, 1921. Serial No. 511,636. 9 Claims. (Cl. 200—43.)



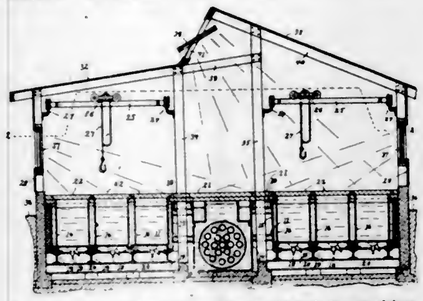
1. A permutation switch for electric circuits including a switch element for each of said circuits arranged in sequence, additional switch elements arranged out of sequence, all of said switch elements being manually operated into active positions, means for bringing said switch elements into inactive positions, other means for locking the switch elements in either of said positions, and a member adapted to control both of said means.

1,478,395. LOCOMOTIVE STOKER. EDWARD PIERCE, West Burlington, Iowa. Filed June 12, 1920. Serial No. 388,406. 12 Claims. (Cl. 302—61.)



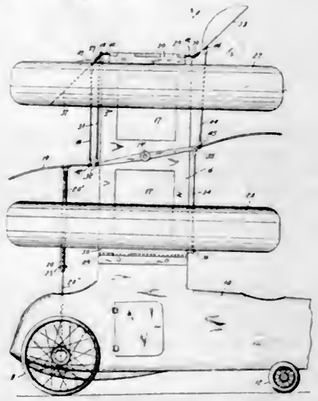
1. In mechanism of the class described, a nozzle member, means to reciprocate said nozzle, said means comprising a reciprocable plate, and a multiple cam operatively connected to said plate and shiftable to vary the reciprocatory movements thereof.

1,478,396. TANK-ROOM STRUCTURE. HENRY D. POWNALL, Canton, Ohio. Filed Jan. 17, 1922. Serial No. 529,991. 6 Claims. (Cl. 20—1.)



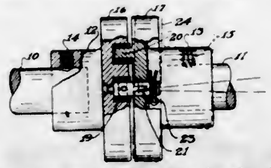
1. A tank-room structure for artificial ice making apparatus having arranged side by side lengthwise thereof, a brine cooler tank and a plurality of freezing tanks, comprising a floor on which said tanks are supported, a tank room floor elevated above said tanks, end-walls, side-walls, vertical columns supported substantially in two rows at opposite sides of the central tank and between said central tank and the outside tanks, a first set of roof joists supported at one end upon one of the side walls and at their opposite ends each attached to a vertical column in each of said rows of columns, and a second set of roof joists supported at one end upon the opposite side wall and attached at their opposite ends, each to a column in one of said rows of columns at a point above the attachment of said first roof joists thereto, roof sections carried by said sets of roof joists respectively, and a series of illuminating and ventilating members interposed between the adjacent ends of said respective roof sections.

1,478,397. FLYING MACHINE. JOSEPH PREATKA, New York, N. Y. Filed Oct. 26, 1923. Serial No. 670,850. 2 Claims. (Cl. 244—20.)



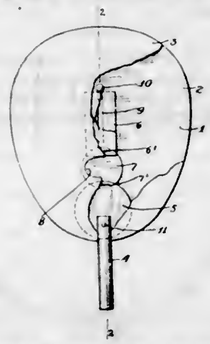
1. A flying machine comprising a car, a tower-like structure rising therefrom, a longitudinal wing pivoted to said tower approximately midway between its ends, a pair of longitudinal wings hinged to said tower above said first-mentioned wing, connecting means between said first-mentioned wing and said pair of wings, a second pair of wings hinged to said tower below said first-mentioned wing, connecting means between said first-mentioned wing and said second pair of wings, said first-mentioned connecting means and said second-mentioned connecting means engaging said first-mentioned wing on opposite sides of its pivots, and actuating means connected with said first-mentioned wing.

1,478,398. FLEXIBLE COUPLING. ALBERT J. PUKT, South Boston, Mass. Filed Mar. 30, 1923. Serial No. 628,756. 1 Claim. (Cl. 64—96.)



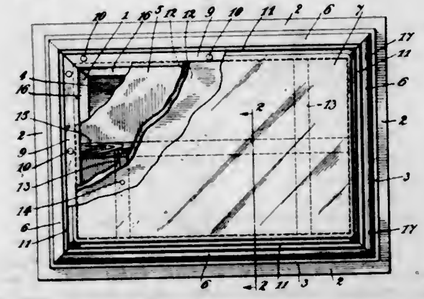
A flexible coupling of the type herein described the combination of a male coupling member with a series of protruding parts for rotating engagement with a female coupling member having a series of cored openings lined with resilient material said male and female coupling members be held in engagement by flexible chain like connectors substantially as described.

1,478,399. FAN. MARCUS ROTHSCHILD, New York, N. Y., assignor to Rice Import Company, Inc., New York, N. Y., a Corporation of New York. Filed June 7, 1923. Serial No. 644,040. 3 Claims. (Cl. 230—33.)



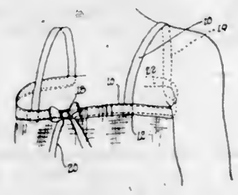
1. A fan having an inner noise making device including resilient means and a member having relatively high inertia connected to said resilient means whereby the vibration of the said fan causes the said resilient means to be rapidly bent in opposite directions, said resilient means and said member being located between the outer surfaces of said fan, and said resilient means being adapted to bend in unison with said fan, and to cause a sound when it is rapidly bent in opposite directions.

1,478,400. REFRIGERATOR-DOOR CONSTRUCTION. ALFRED W. ROWLEY and FRANK H. RYDER, Cobleskill, N. Y., assignors to Harder Manufacturing Corporation, Cobleskill, N. Y., a Corporation of New York. Filed July 15, 1922. Serial No. 575,329. 11 Claims. (Cl. 20—35.)



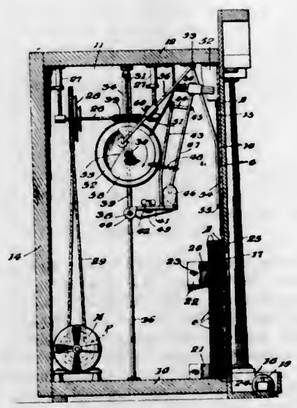
1. A door, comprising, in combination, an outer portion, a frame on the rear side of said outer portion adapted to form a dead-air space, and a pan mounted on said frame by means of metal retaining strips on said frame and having flanges interlocking with flanges on the pan.

1,478,401. GARMENT. JULIUS C. RUEDT, Milwaukee, Wis., assignor to Phoenix Hosiery Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 7, 1922. Serial No. 580,011. 3 Claims. (Cl. 2—41.)



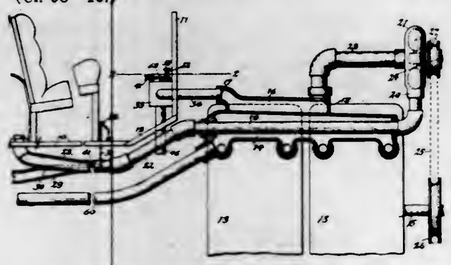
2. In a garment, a body portion adapted to encircle the body of the wearer under the arms, means for slidably guiding a strap member at the upper edge, under the arms, at the front and on each side of said body portion, and strap members extending from a point of attachment to the upper edge of said body portion at the front, adapted to pass over the shoulders of the wearer, and entering the respective guiding means at the back and passing forwardly therethrough under the arms to the front where they meet each other to be tied together.

1,478,402. ADVERTISING AND THE LIKE DISPLAY DEVICE. JOHN F. RYAN, Huntington, W. Va. Filed Oct. 10, 1922. Serial No. 593,558. 24 Claims. (Cl. 40—36.)



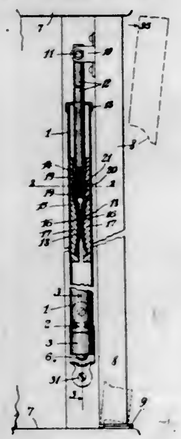
7. In a display device, a series of magnetically attractive display cards supported loosely together to form a pack with one side of the pack in display position and the opposite side of the pack in non-display position, a magnet movable to position attracting and gripping a card of the pack at the non-display side thereof and movable from the pack to withdraw the gripped card therefrom, means for moving said magnet and withdrawn card to position for movement of said card by gravity to position on the display side of said pack, means for releasing said withdrawn card from the magnet, and means for guiding and cushioning said card during its movement by gravity to display position after release from said magnet.

1,478,403. VENTILATING APPARATUS FOR AUTOMOBILES. JAMES THOMAS SAINSBURY, Buffalo, N. Y., assignor of one-third to George F. Yates, Buffalo, N. Y. Filed Jan. 25, 1922. Serial No. 531,815. 4 Claims. (Cl. 98—19.)



1. An apparatus of the character described comprising a suction pipe having openings leading to a compartment of a car and having a valve seat, an automatically operated valve responsive to suction in said pipe for drawing the same toward said valve seat, and an air propeller for drawing the air through said suction pipe.

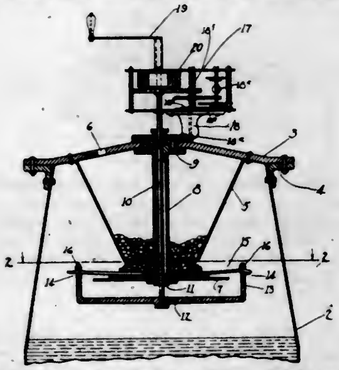
1,478,404. FRICTION ADJUSTER. EDWIN JOHN SIBLEY, Jamaica, N. Y. Filed Nov. 10, 1921. Serial No. 514,205. 11 Claims. (Cl. 292—275.)



1. The combination with a window casing and a window hinged thereto, of two interconnected telescopic members, frictional means interposed between the latter, means for pivoting one of said telescopic members to the said window, mechanism for pivoting the other of said telescopic members to the said window casing in a manner to impart unopposed sliding movement to the said two members at the opening and closing of the said window, said mechanism comprising a base secured to said window casing, a pivot on said other telescopic member arranged to rotate in said base member in two opposed directions and capable of a sliding movement with respect to said base at the beginning of the rotative movement in one direction and at the end of the rotative movement in the other direction.

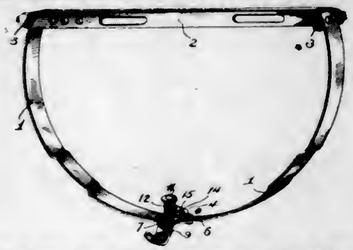
1,478,405. CARBIDE-FEEDING APPARATUS. ELMER H. SMITH, Minneapolis, Minn. Filed Mar. 29, 1920. Serial No. 369,675. 3 Claims. (Cl. 48—52.)

3. An acetylene generator comprising a tank and cover, a carbide hopper within said tank and having a discharge opening, a sleeve depending from said cover, a feed plate carried by said sleeve beneath said discharge opening and whereon the carbide is delivered, a shaft depending through said sleeve below said feed plate, a yoke supported beneath said feed plate and



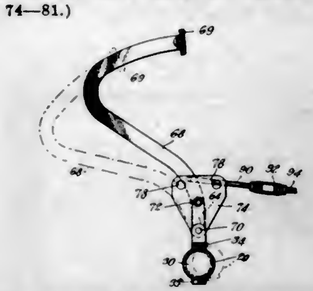
mounted for revolution, and means mounted in said yoke to sweep the upper surface of said plate and feed the carbide therefrom.

1,478,406. TIRE CARRIER. CHARLES C. STEEL and THOMAS H. LYNN, Williamsport, Pa. Filed Oct. 19, 1921. Serial No. 508,750. 7 Claims. (Cl. 224—29.)



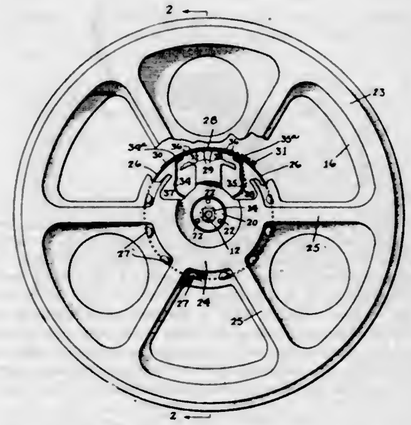
1. In a tire carrier, the combination of a supporting member having a plurality of rim holding lugs, and a yielding saddle having bent ends, the said saddle being mounted on the supporting member and adapted to tilt longitudinally to permit the rim to pass over one bent end, and means for yieldingly holding said saddle in its position to engage and lock the rim on the supporting member.

1,478,407. CLUTCH AND BRAKE PEDAL MECHANISM. ALFRED T. STUART, Flint, Mich., assignor to Durant Motors Incorporated, a Corporation of Delaware. Filed June 3, 1922. Serial No. 565,755. 8 Claims. (Cl. 74—81.)



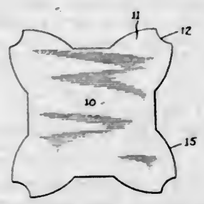
1. In a motor vehicle, a swinging member pivotally supported on the vehicle, a clutch pedal movable with said swinging member, a brake pedal pivotally mounted on said swinging member and a clutch actuating member movable with said swinging member.

1,478,408. FILM-REEL CONSTRUCTION. WALTER I. TUTTLE, Providence, R. I. Filed Feb. 1, 1922. Serial No. 533,428. 9 Claims. (Cl. 242—70.)



1. In a construction of the general nature of that herein described, in combination, a pair of head members, a barrel member associated therewith and adapted to form a supporting surface for material wound on the reel, a spring member associated with said barrel member and having a portion resting upon the outer surface of said barrel member, means for manually moving said portion of said spring member away from said barrel member, and means for limiting the extent of movement of said portion of said spring member away from said barrel member.

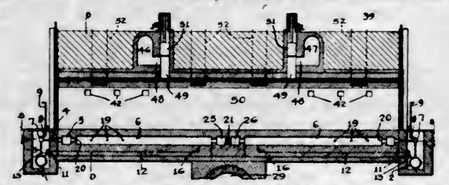
1,478,409. HANDLE CONSTRUCTION FOR BRACES AND THE LIKE. WALTER I. TUTTLE, Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass., a Corporation of Rhode Island. Filed Feb. 1, 1922. Serial No. 533,489. 8 Claims. (Cl. 76—101.)



1. The herein described art of forming a handle which consists in shaping a sheet metal member into a form with a plurality of outward extensions, forcing said member into an outwardly convex form, and forcing said extensions inwardly to form a bearing.

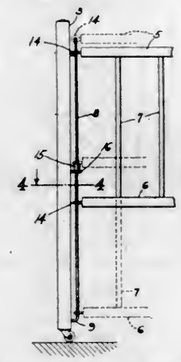
1,478,410. SOLE-HEATED COKE OVEN. THEODOR VON BAUER, Burgel, Turingen, Germany, and BERNHARD ZWILLINGER, New York, N. Y.; said von Bauer assignor to said Zwillinger, Klara Zwillinger administratrix of said Bernhard Zwillinger, deceased. Filed Mar. 3, 1921. Serial No. 449,444. 15 Claims. (Cl. 202—9.)

15. In a sole heated coke oven having an elongated oven chamber adapted to receive the charge in a horizontal layer, a plurality of combustion flues forming a floor for heating the oven, cross-channels at both fronts of the oven communicating with said combustion flues,



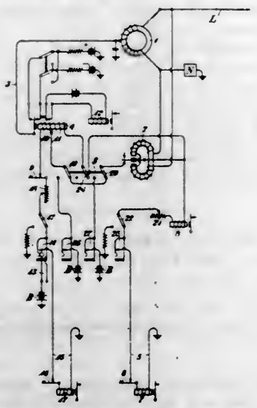
and means for supplying air and gas to the heating flues and to said cross-channels, at both fronts of the oven.

1,478,411. CRIB. CHARLES WILLIAM WALSTROM, Minneapolis, Minn., assignor to Minneapolis Bedding Company, Minneapolis, Minn., a Corporation of Minnesota. Filed June 5, 1922. Serial No. 566,025. 3 Claims. (Cl. 5—100.)



1. The combination with a crib, of guide rods mounted thereon and having loops formed therein, a crib side having sockets, eye-bolts mounted to slide on said rods and having shanks to enter said sockets, said crib side and said shanks having a relative longitudinal movement to allow said bolts to follow said guide rods without binding or cramping thereon.

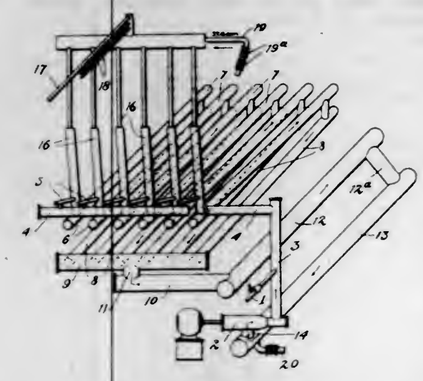
1,478,412. TELEGRAPH APPARATUS. CECIL E. WALTON, Cincinnati, Ohio, assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Jan. 4, 1919. Serial No. 269,601. 6 Claims. (Cl. 178—2.)



1. In a signaling system, a line circuit, a receiving relay and a transmitting relay associated therewith, said

transmitting relay being included in a local circuit controlled by said receiving relay, indicating means in said local circuit, means controlled by said receiving relay to vary the resistance of said local circuit while maintaining the circuit through said indicating means closed, whereby said indicating means may be actuated and said transmitting relay prevented from actuation by the operation of said receiving relay, and means in said local circuit for operating said transmitting relay to transmit signals to said line.

1,478,413. APPARATUS FOR AND METHOD OF CRACKING HYDROCARBONS. FRANK E. WELLMAN, Kansas City, Kans., assignor to The Kansas City Gasoline Company, Kansas City, Kans., a Corporation of Kansas. Filed Apr. 21, 1920. Serial No. 375,513. 4 Claims. (Cl. 196—25.)



1. Apparatus of the class described comprising cracking tubes and settling tubes connected in a continuous coil or series, said cracking tubes being exposed to cracking temperature, and being of smaller diameter and capacity than the settling tubes, means for producing a circulation of hydrocarbons to be cracked rapidly through the cracking tubes, slowly from them through the larger settling tubes and then again through the cracking tubes, said tubes being arranged to form a constant downward channel for the hydrocarbon from the entrance to the cracking tubes to the discharge point of the settling tubes, and means fro blowing out said settling tubes between operations.

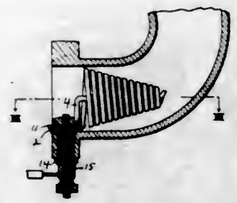
3. The method of cracking hydrocarbons which consists in maintaining rapid circulation of the same through a constricted area heated to cracking temperature, then causing the same to expand into a less constricted area for settling purposes, then picking up the material from which the carbon has settled out, and returning it to the constricted cracking area, taking off cracked products from the constricted area and finally when the required percentage of conversion is attained blowing out the contents of the settling area.

1,478,414. STAY-BOLT TAP. FRANK O. WELLS, Greenfield, Mass. Filed Feb. 21, 1922. Serial No. 538,225. 6 Claims. (Cl. 10—140.)



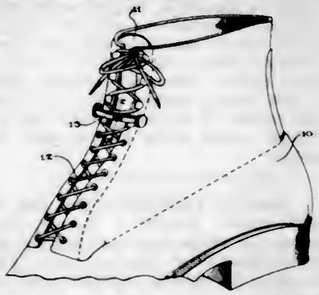
1. A tap construction comprising a member having a series of rearwardly tapered reamer elements of different diameters and a series of thread forming elements of different diameters.

1,478,415. HEATER FOR INTERNAL-COMBUSTION ENGINES. EDWIN L. WIEGAND, Pittsburgh, Pa. Filed Sept. 29, 1921. Serial No. 504,089. 3 Claims. (Cl. 219—38.)



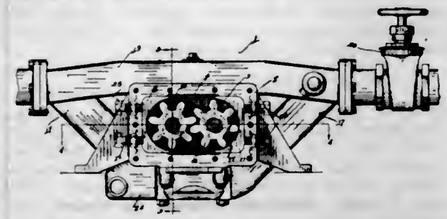
2. The combination of a nut having a reduced portion and a tubular extension, a heating coil having eyes as its terminals, one of said eyes enclosing the reduced portion of the nut, a sleeve of insulating material surrounding the tubular extension and surrounded by the other terminal eye, a washer of insulating material interposed between the two eyes, a metal washer fitting on the sleeve and bearing against the terminal carried thereby, the end of the tubular extension being flared to hold the several parts in position on the nut.

1,478,416. TONGUE FASTENER. LLOYD F. WILLETT, Evansville, Ind. Filed Oct. 16, 1922. Serial No. 594,870. 1 Claim. (Cl. 24—117.)



An attachment for shoes comprising a bar, formed to provide terminal enlargements, said bar having a longitudinal slot for a portion of its length, a headed fastener passed through said slot and including bendable limbs, adapted to penetrate the tongue of the shoe and subsequently bent at right angles to the bar for holding the latter attached to the tongue, said bar being arranged transversely of the shoe and adapted to be embraced by the lace thereof for the purpose specified.

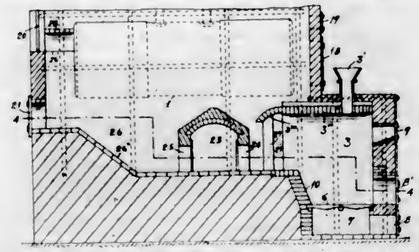
1,478,417. PUMP. SYLVANUS L. WOTTRING and LE ROY WOTTRING, Prospect, Ohio, assignors to The Prospect Manufacturing Company, Prospect, Ohio, a Corporation of Ohio. Filed Nov. 27, 1922. Serial No. 603,447. 3 Claims. (Cl. 103—126.)



1. In a pump, a casing including a chamber, pumping means mounted in said chamber, horizontally extending inlet and outlet conduits in communication with said

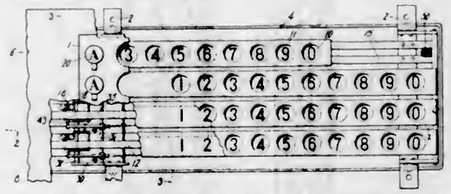
chamber, and disposed in lateral offset relation, said conduits being arranged on a plane substantially above said chamber, whereby the latter will be maintained in a prime condition at all times.

1,478,418. BAGASSE AND LIQUID-FUEL FURNACE. ROBERTO ALMAGRO, Habana, Cuba. Filed June 29, 1922. Serial No. 571,586. 3 Claims. (Cl. 110—7.)



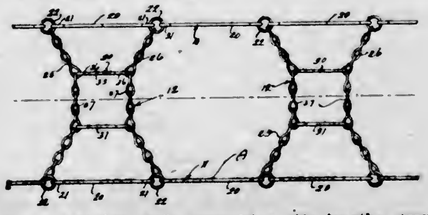
1. In bagasse and liquid fuel furnaces, a furnace body which contains a battery of steam boilers, having in front a chamber for burning bagasse, and chambers for burning liquid fuel on each side of the chamber for burning bagasse, said chambers being in an advanced position with regard to the furnace body which contains the boilers, the front ends of these extending slightly over the chambers, and a tunnel situated across the fire bridges of the chambers, the outlets of said tunnel ending at opposite sides of the furnace with damper doors, and to which tunnel the burning gases incoming from the chambers do not have any access.

1,478,419. MACHINE-SWITCHING TELEPHONE-EXCHANGE SYSTEM. RAND S. BAILEY, Montclair, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 20, 1920. Serial No. 360,210. 14 Claims. (Cl. 179—27.)



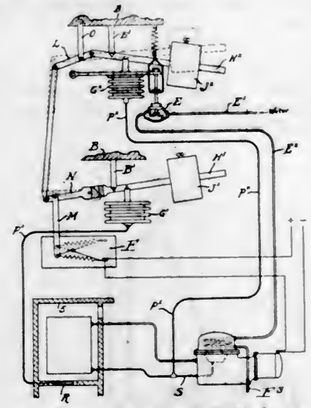
1. In a telephone system, a connecting circuit, an impulse sender for transmitting a plurality of series of impulses over said circuit comprising a plurality of longitudinally movable members each provided with finger holds so that they may be variably set, manual means for releasing one of the members, and means actuated under control of said member for causing successive release of the remaining members.

1,478,420. ANTISKID CHAIN. WILLIAM H. BAUMEISTER, Spencer, Iowa. Filed Jan. 22, 1923. Serial No. 614,228. 4 Claims. (Cl. 152—14.)



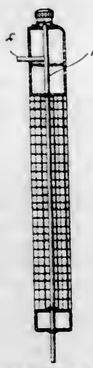
3. An anti-skid chain comprising side lengths, transverse assemblies connected in spaced relation to said side lengths, each of said transverse assemblies including a pair of flexible cross pieces connected intermediate their ends by relatively short bar links as to hold the intermediate portions of said cross pieces in closer relation than the end portions thereof.

1,478,421. AUTOMATIC REGULATING AND CONTROLLING DEVICE. REUBEN E. BECHTOLD and ALFRED W. MELLOWES, Detroit, Mich., assignors, by mesne assignments, to Delco-Light Company, a Corporation of Delaware. Filed Feb. 5, 1917. Serial No. 146,715. 15 Claims. (Cl. 62—4.)



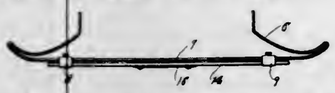
1. A device of the character indicated, embodying in combination a bellows operatively connected with the supply of motor fluid or force to the apparatus with which said device is used: means for producing proper resistance to be overcome by the action of said bellows; a second bellows operatively connected with a valve governing the supply of non-motive fluid to said apparatus; means for producing proper resistance to be overcome by the action of said second bellows; and an operative connection between the two mechanisms whereby an excess of motion in said second bellows beyond the normal limit shuts off the said supply of motive fluid or force.

1,478,422. RADIATOR-THAWING MEANS. EUGENE L. CARILLON, Bedford, Ohio. Filed Nov. 2, 1920. Serial No. 421,266. 1 Claim. (Cl. 137—72.)



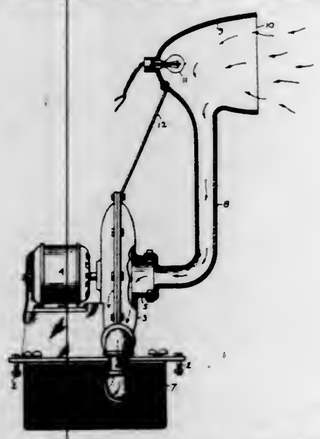
A radiator characterized by a primary passage and by a conduit open at its upper end and having said end arranged in the upper portion of the radiator and also having a discharge end located below the radiator, said conduit being relatively arranged to conduct steam or hot water downwardly through the primary passage, and being provided adjacent to its upper end with a lateral intake arm through which a fluid agent may in a heated state be supplied to the conduit.

1,478,423. LICENSE-PLATE HOLDER. WILLIAM A. CARPENTSY, Newark, N. J. Filed Oct. 28, 1922. Serial No. 597,586. 3 Claims. (Cl. 116—32.)



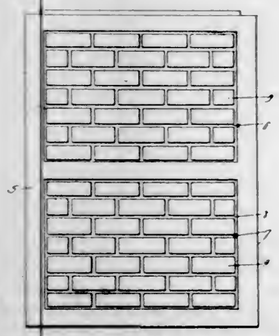
1. The combination of a bumper and a license plate, a destructible bar, means for securing the license plate to the bar, and means for supporting and attaching the bar to the bumper.

1,478,424. INSECT EXTERMINATOR. HOMER V. CROSS, Kenton, Tenn., assignor of one-half to Clifford W. Worden, Buffalo, N. Y. Filed Dec. 16, 1921. Serial No. 522,795. 2 Claims. (Cl. 43—139.)



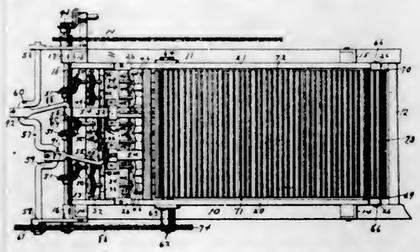
1. In an insect exterminator, in combination, a horizontally disposed insect collecting bell in the general shape of a parabolic reflector having a closed end and an enlarged mouth, a lamp mounted in line with the axis of said bell adjacent said closed end and for which said end provides a concave reflector, a vertical air trunk in open communication with said bell and connected to the lower side thereof, the communicating opening being located between said lamp and said enlarged mouth, said lamp being thereby located back of said opening, and means for inducing a descending current of air through said trunk.

1,478,425. EXHIBITOR. GUY DICKINSON, Little Rock, Ark. Filed Feb. 15, 1923. Serial No. 619,186. 3 Claims. (Cl. 35—17.)



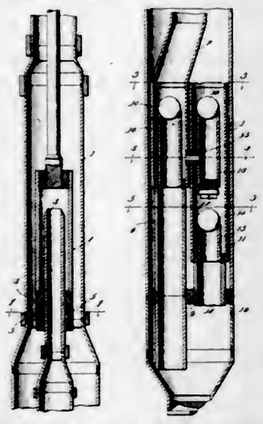
1. In a masonry exhibitor, a plate, blocks applied to the outer surface thereof with broken joints and in spaced relation to one another, and a member at the rear of the plate adapted to be exhibited through the spaces forming the said joints.

1,478,426. HUSKING MECHANISM FOR CORN-HARVESTING MACHINES. CARL DUEKER, Cooper Township, Webster County, Iowa. Filed May 11, 1920. Serial No. 380,544. 13 Claims. (Cl. 130—5.)



1. A husking mechanism for corn harvesting machines, comprising a husking bed mounted in an inclined plane and composed of a plurality of husking rollers arranged in pairs, non-toothed agitator bars mounted above the spaces between pairs of said rollers and arranged for rectilinear reciprocation and an endless conveyor superposed in close relation to the agitators and extending substantially the length of said husking bed, said conveyor also being adapted to travel with its lower portion sliding on said agitators and to cooperate with said agitators in moving ears of corn longitudinally of said husking bed.

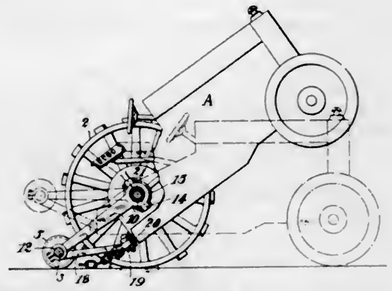
1,478,427. PUMP. RICHARD O. DULANEY, Fort Worth, Tex. Filed July 8, 1922. Serial No. 573,522. 2 Claims. (Cl. 103—155.)



1. A pump of the class described comprising a casing, a barrel therein, a piston associated with the barrel for forming a suction therein, a gas anchor connected with the barrel, a ball valve controlling communication between the anchor and the barrel, said barrel having an outlet therein arranged below the valve seat and means for forming a gas pocket in the upper part of the barrel for preventing the oil entering this part and for forcing the oil through the outlet and around the top of the valve to clean the same.

1,478,428. ANTITILTING DEVICE FOR TRACTORS. DAVID DUNCAN, Brooklyn, N. Y. Filed July 10, 1922. Serial No. 574,054. 3 Claims. (Cl. 280—150.)

1. An attachment to check rearward tilting of tractors having rear traction wheels, comprising a rearwardly extending framework for attachment to the frame of the tractor; and a pair of safety-stop idlers mounted by said frame-work to rotate on an axis parallel to and to the rear of the axis of said traction-wheels and arranged to track, upon the rearing of the tractor in the same tracks as do said traction-wheels, whereby the rearward tilting is checked by the said idlers making rolling contact with a firm trackway and without checking the forward progress of the tractor.

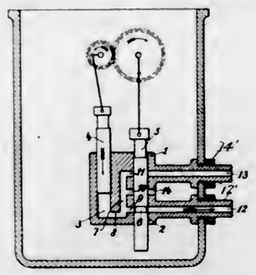


1,478,429. PRIMER AND PROCESS OF MAKING SAME. WALTER FRIEDERICH, Treisdorf, near Cologne, Germany. Filed Dec. 19, 1921. Serial No. 523,562. 4 Claims. (Cl. 52—4.)

1. A priming comprising a constituent having the formula $(C_6(NO_2)_3O_2)_2(Pb\text{-}OH)_4$.

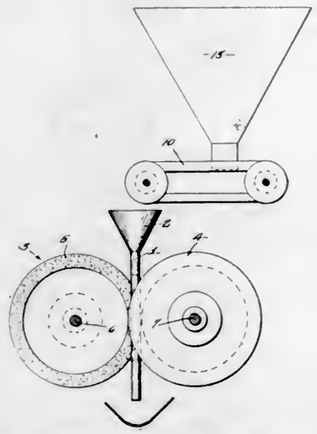
3. An improved process for making primers, comprising subjecting a solution of hexanitrodiresorcin to the action of a solution of lead acetate.

1,478,430. VALVELESS LUBRICATING PUMP. OTTO HAJEK and FRITZ UIBERALL, Vienna, Austria. Filed Apr. 22, 1922. Serial No. 556,027. 4 Claims. (Cl. 184—27.)



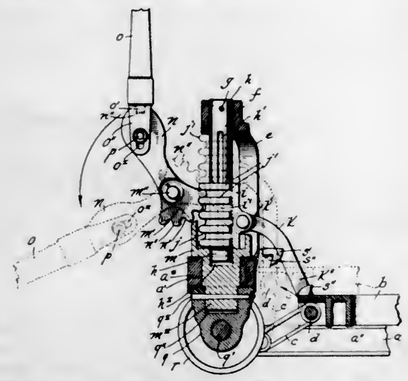
3. A lubricating pump consisting of a casing provided with a pressure piston cylinder, a distributing piston cylinder and a channel, the channel being situated between the cylinders while the cylinders and the channel are arranged parallel to each other, the casing being also provided with means for arranging the pressure piston cylinder in communication with the channel and further provided with three horizontally spaced passageways intersecting the distributing piston cylinder and communicating with the channel, one passageway acting as an inlet for the oil and the two remaining passageways acting as outlets for the oil, a delivery piston and a distributing piston arranged in the respective cylinders, the distributing piston being provided with a duct for alternatively arranging the oil inlets and the oil outlets in communication with the pressure piston cylinder and means for reciprocating the pistons in such a manner that the rate of reciprocation of the pressure piston is double that of the distributing piston.

1,478,431. MACHINE FOR REMOVING THE SKINS FROM PEANUTS AND THE LIKE. ARTHUR EUGENE HALL, Syracuse, N. Y., assignor to Ellen E. Hall, Syracuse, N. Y. Filed Nov. 8, 1921. Serial No. 513,775. 5 Claims. (Cl. 146—32.)



1. In a machine for removing the skins from peanuts, comprising means for providing a passage for the nuts, the passage being open along one side, and rubbing means engaging the nuts in the passage through the open side at a plurality of points, the means providing the passage being arranged, so that, the passage is vertical and open along the vertical side, whereby, the nuts feed through the passage by gravity, and the rubbing means being arranged to move in transverse directions across the passage at a plurality of points.

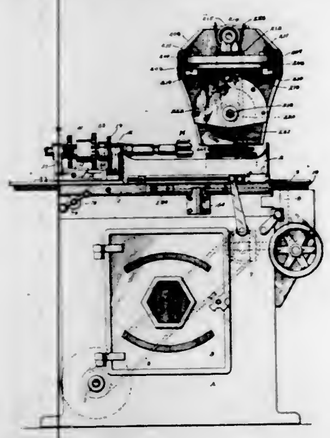
1,478,432. HOISTING TRUCK. JAMES HAMILTON, Washington, D. C. Filed Sept. 27, 1922. Serial No. 590,838. 3 Claims. (Cl. 254—10.)



1. A hoisting-truck including a truck-frame; a platform arranged thereabove for movement therefrom and theretowards; a stationary guide-post fixed in position upon the truck-frame; a sleeve connected with the platform and slidable up and down along the guide-post

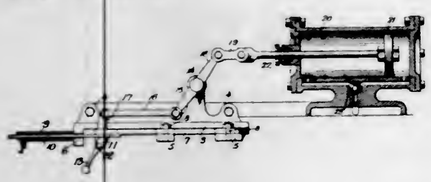
and provided with a rack having ringlike teeth arranged one above the other; a toothed member which engages the rack and by which the sleeve is caused to travel along the stationary guide-post; and a carrier in which the toothed member is mounted and which is rotatably mounted in the truck-frame and which carries the toothed member in its movement from side to side thereof while the teeth of the toothed member remain in operative mesh with the ringlike teeth of the rack.

1,478,433. HOB GRINDER. HARRY E. HARRIS, Bridgeport, Conn. Filed Nov. 29, 1920. Serial No. 426,932. 44 Claims. (Cl. 51—95.)



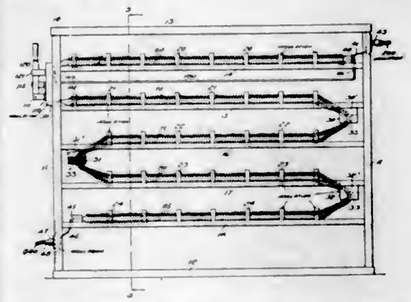
1. In a machine of the class described, a traversing work carriage, a work spindle carried by said carriage, a slide carried by said carriage and movable transversely thereof, a second slide carried by said first slide, means to operatively connect said second slide to said spindle whereby motion of said slide turns said spindle, means normally holding said slides for simultaneous motion, means for moving said first slide while said slides are so held, and means for moving said second slide independently of said first slide.

1,478,434. PIN-PULLING DEVICE FOR DRILL SHARPENERS. LE ROY HICKS, Lyon Mountain, N. Y. Filed Apr. 12, 1921. Serial No. 460,653. 1 Claim. (Cl. 29—86.1.)



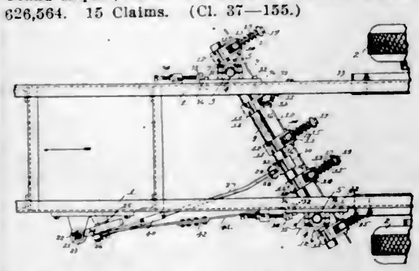
In an apparatus of the character described, the combination of a supporting structure, a guideway mounted on said structure, a carrier bar slidably mounted on the guide-way, a rocker arm having a fixed fulcrum mounted on said structure, a link connecting said rocker arm with the carrier bar, and a cam element mounted on the carrier bar provided with a pendant weight operable to cause the cam to positively function when the carrier bar is moved in one direction and to be released when the carrier bar moves in the opposite direction.

1,478,435. PORTABLE RHEOSTAT FOR ELECTRIC-ARC WELDING. THOMAS P. HIM, Wilkes-Barre, Pa. Filed June 13, 1921. Serial No. 477,192. 11 Claims. (Cl. 219—48.)



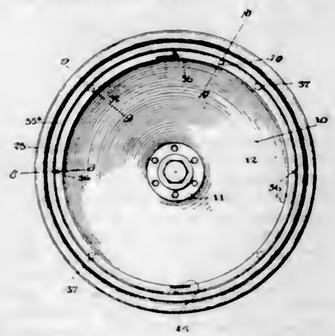
1. A rheostat having several substantially horizontal air-exposed banks of resistance conductors arranged one below another and connected in succession.

1,478,436. ROAD SCRAPER. EDWARD J. JACKOBOICH, Grand Rapids, Mich. Filed Mar. 21, 1923. Serial No. 626,564. 15 Claims. (Cl. 37—155.)



1. In combination with a vehicle having a frame, a road scraper comprising: a horizontally-disposed shaft rockable in bearings on said frame; a scraper blade carried by the shaft rockably on a horizontally-disposed axis; springs carried by the shaft and pressing against the opposite sides respectively of the scraper blade.

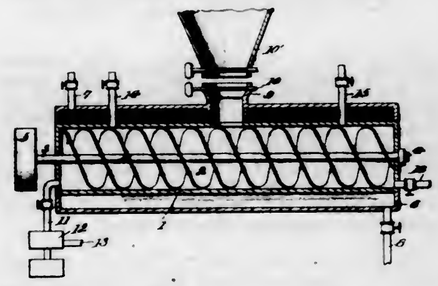
1,478,437. WHEEL FOR AUTOMOBILES. SAMUEL KAPLAN and HENRY M. HOWELL, Monroe, La., assignors to Instant Changeable Tire Rim Co., Inc., Monroe, La., a Corporation of Louisiana. Filed Oct. 10, 1921. Serial No. 506,766. 1 Claim. (Cl. 301—17.)



In a device of the character described, a wheel having a fixed rim provided with a beveled shoulder constituting an abutment and an annular seat, a plurality of spaced L-shaped locking lugs carried by said fixed

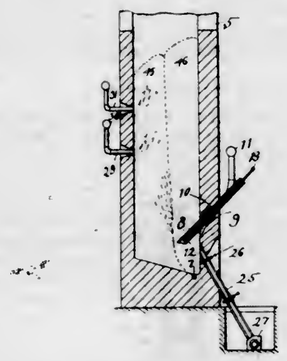
rim, said fixed rim having entering slots intermediate said locking lugs, a demountable rim having circumferential ridges adapted to rest on the annular seat and the locking lugs of said fixed rim, a plurality of spaced L-shaped locking lugs carried by said fixed rim and adapted to move into said entering slots and into interlocking engagement with the locking lugs of the fixed rim, and means for securing said demountable rim against circumferential movement relative to said fixed rim.

1,478,438. PROCESS OF MIXING AND DELIVERING OIL AND ALUMINUM CHLORIDE. GEORGE H. KING, Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Texas. Filed Nov. 12, 1921. Serial No. 514,668. 4 Claims. (Cl. 196—26.)



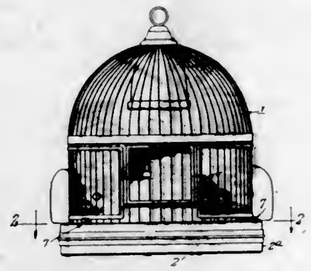
1. The process of mixing and delivering oil and aluminum chloride which comprises mixing hydrocarbon oil and aluminum chloride in a closed receptacle, establishing communication between the receptacle and a point to which the aluminum chloride and oil mixture is to be delivered, and delivering the said mixture to said point by forcing into the chamber, oil of the same character as that mixed with the aluminum chloride.

1,478,439. BLAST-FURNACE CONSTRUCTION. EDMUND B. KIRBY, New York, N. Y. Filed Feb. 16, 1920. Serial No. 358,970. 22 Claims. (Cl. 266—29.)



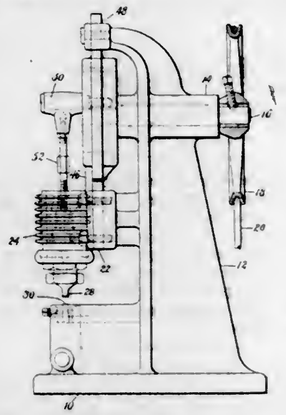
1. A blast furnace having an interior space adapted to permit the maintenance of separate descending contacting columns of material to be treated and solid fuel, and a tuyère so placed as to discharge upon the fuel substantially at its surface of contact with the material column.

1,478,440. CATCH FOR BIRD CAGES. LEWICKI J. LEON, Chicago, Ill., assignor to L. J. Leon Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed June 12, 1922. Serial No. 567,790. 7 Claims. (Cl. 119—17.)



1. A bird-cage, comprising a separable cage-body and base, said cage-body having a base member about its lower end, said base having a substantially upright surrounding marginal wall provided at its upper end with an inwardly extending portion forming two upwardly facing flanges, one offset below the other to provide a seat for said base member, and catch members pivoted on the other of said flanges in a manner to be turned in the plane thereof into and out of locking engagement with said base member.

1,478,441. PERFORATING. BERNARD T. LEVEQUE, Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 15, 1920. Serial No. 365,841. 28 Claims. (Cl. 164—86.)

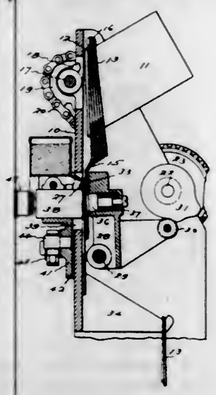


1. That improvement in perforating which consists in partially severing a pill from a piece of stock by making a ring-like incision and completing the severing from the stock of the pill thus partially formed by a force applied to the surface of the pill inside said incision.

1,478,442. SPACE-BAND CLEANER. WILLIAM A. LORENZ and PENROSE R. HOOPES, Hartford, Conn., assignors to James R. Babbett, Hartford, Conn. Filed Jan. 27, 1923. Serial No. 615,247. 18 Claims. (Cl. 91—43.)

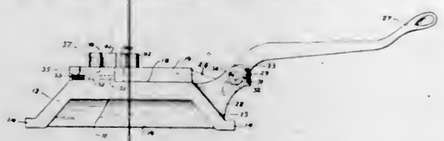
5. A spaceband cleaning machine comprising means for feeding spacebands, a reciprocatory polishing block, means for reciprocating the polishing block, oscillatory

means for temporarily holding the bands against the polishing block and then releasing the bands and allowing them to drop.



14. A spaceband cleaning machine comprising means for feeding bands, means for interrupting the feed of the bands and temporarily retaining them, a reciprocatory polishing block adapted to rub against the bands, means for feeding polishing material through the polishing block, means for reciprocating the polishing block, and means for releasing the bands after they have been subjected to a predetermined number of rubbings by the polishing block.

1,478,443. HAND PRESS. HENRY LORCH, Chicago, Ill., assignor to J. F. Helmhold & Bro., Chicago, Ill., a Corporation of Illinois. Filed Feb. 21, 1921. Serial No. 446,570. 5 Claims. (Cl. 153—48.)



1. A hand-press having, in combination, a horizontally disposed reciprocable plunger, a base plate upon which said plunger is mounted to slide, a hand lever spaced from said plunger, a link connecting said hand lever with said plunger, lugs integral with the base plate for supporting the fulcrum of the lever with the fulcrum arranged in the plane of sliding engagement of the plunger, and dies carried respectively in said plunger and said base plate.

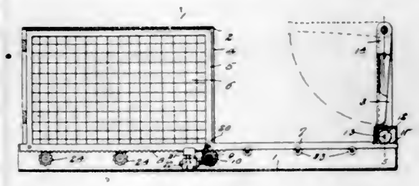
1,478,444. DISTILLING OIL WITH ALUMINUM CHLORIDE. ALMER MCDUFFIE MCAFEE, Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Texas. Original application filed Sept. 30, 1913, Serial No. 792,615. Divided and this application filed Jan. 13, 1922. Serial No. 529,071. 1 Claim. (Cl. 196—26.)

In the conversion of oils into products of lowered boiling point, the process which comprises distilling a high boiling oil with anhydrous aluminum chloride at a pressure greater than atmospheric.

1,478,445. AUTOMATIC LEAK DETECTOR. BENJAMIN C. MCCLURE, Hartsdale, N. Y., assignor to Johns-Manville, Incorporated, a Corporation of New York. Filed Jan. 8, 1923. Serial No. 611,544. 4 Claims. (Cl. 23—3.)

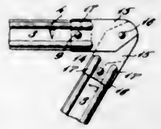
1. The combination, with a vessel adapted to hold a predetermined liquid, of an exterior coating of paint on said vessel containing coloring material capable of reacting chemically with any escaping portion of said liquid to modify the color of the coating at and around the point of leakage.

1,478,446. RAILROAD-CROSSING GATE. HARVEY MCNISH, Attica, Kans. Filed Sept. 16, 1922. Serial No. 588,575. 3 Claims. (Cl. 39—7.)



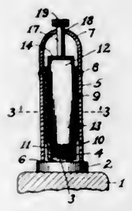
1. In a railway crossing gate, a casing extending across the highway and embedded in the latter parallel with the railway tracks, a housing on one end of said casing, a gate within said housing movable across the highway, a vertical housing on the other end of said casing at the other side of the highway, a keeper pivoted to the upper end of said second named housing, and means for moving said keeper from vertical position to horizontal position and for sliding said gate across the highway into engagement with said keeper.

1,478,447. WINDOW FRAME FOR CURTAINS AND LIKE ARTICLES. HARVEY F. MARANVILLE, Akron, Ohio, assignor of one-third to Christian Girl, Cleveland, Ohio, and one-third to Ernest W. Farr, Lakewood, Ohio. Filed Oct. 11, 1919. Serial No. 329,903. 8 Claims. (Cl. 296—145.)



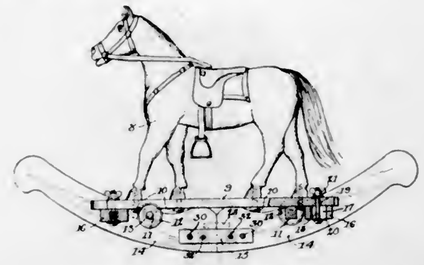
4. In a device of the character set forth, the combination of a pair of metallic strips, and a corner piece adapted to support adjacent ends of said strips, said corner piece comprising a pair of pivotally connected members each having a pocket or guide for the adjacent end of a strip.

1,478,448. CAP FOR VALVE STEMS. HENRY B. MEAD, Cleveland, Ohio. Filed Jan. 21, 1918. Serial No. 213,036. 8 Claims. (Cl. 152—12.)



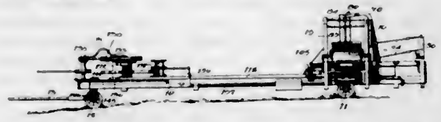
1. A cap for valve stems comprising a casing, clamps arranged within the casing, movable means within the casing for actuating the clamps, and means extending through the top of the casing for actuating said movable means, substantially as described.

1,478,449. ROCKING-HORSE. HERMAN MEISTER, Milwaukee, Wis., assignor, by mesne assignments, to B. G. Edgerton, Oconomowoc, Wis. Filed Feb. 16, 1918, Serial No. 21,749. Renewed Sept. 22, 1920. Serial No. 412,067. 8 Claims. (Cl. 46—22.)



1. In a toy, a rocker frame comprising two-part rocker members, means for detachably securing the parts of each rocker member together, end blocks, means for detachably securing said rocker members to said end blocks, a central frame member disposed adjacent the adjoining parts of each of the two-part rocker members, and means for detachably securing the parts of each rocker member to said central frame member.

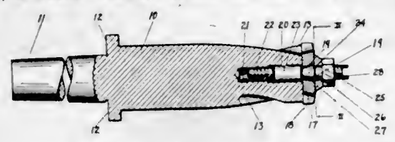
1,478,450. PRESS. CHARLES D. MELTON, Eustace, Tex. Filed Feb. 25, 1922. Serial No. 539,271. 17 Claims. (Cl. 100—7.)



1. In an apparatus of the character described, a baling chamber, a plunger operating in said baling chamber, a plurality of feed hoppers movable into baling position over said baling chamber and into loading position away from said baling chamber, shifting mechanism for said hoppers, a tramper cooperable with said feed hoppers in baling position for feeding the material from said hoppers into said baling chamber, operating mechanism for said tramper, a rotatable power block having driving arms, a pair of shifting cams spaced from the driving arms and a pair of tramper cams spaced from the shifting cams and from the driving arms, one of said driving arms being cooperable with the plunger to actuate the same, a pair of shafts including a shifting shaft and a tramper shaft, a pair of shifting toes associated with the shafts and adapted to be engaged by the shifting cams to successively rotate the shifting shaft in opposite directions, motion transmission means between said shifting shaft and the shifting echanism for said feed hoppers, a pair of tramper toes associated with the tramper shafts and adapted to be engaged by the driving arms and the tramper cams for driving said tramper shaft successively in opposite directions and motion transmission means between said tramper shaft and the operating mechanism for the tramper.

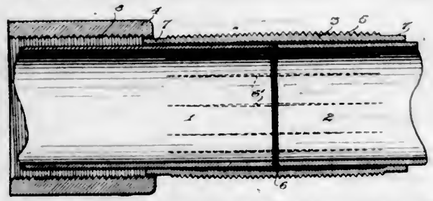
1,478,451. DRILL. FRANK MULLIN, Elyria, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 14, 1919. Serial No. 276,967. 4 Claims. (Cl. 77.58.)

1. A drill provided with a central opening therein threaded throughout a portion of its extent, cutters carried by the drill, a threaded member positioned within the internally threaded opening and provided with a beveled portion adapted to contact with the cutters and limit the radial movement of the same relative to the drill, a washer bearing against one side of the cutters,



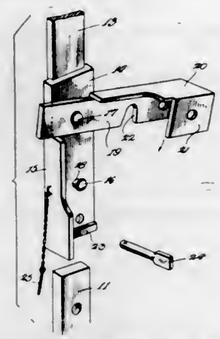
and common means acting through said washer for holding the cutters against removal and locking the threaded member against movement.

1,478,452. PIPE COUPLING. CLAYTON L. NELSON, St. Albans, Vt. Filed Nov. 2, 1921. Serial No. 512,229. 2 Claims. (Cl. 285—193.)



1. A pipe coupling comprising a single encircling member having a plurality of longitudinal slits and provided with teeth upon its inner surface and with threads upon its outer surface, and an internally threaded cylindrical compressing member adapted to fit around the said encircling member in threaded engagement therewith whereby to compress the same and force the teeth on the inner surface thereof into an encircled pipe section.

1,478,453. PUMP COUPLING. JOHN J. O'BRIEN, Coggon, Iowa. Filed July 25, 1922. Serial No. 577,383. 5 Claims. (Cl. 287—58.)

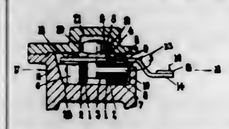


5. A pump coupling including a body plate, spaced bolts extending through the plate for connecting the plate to an actuating element, a keeper pivotally mounted upon one of said bolts and notched to operatively coact with the other of said bolts when the keeper is closed sustained by both of said bolts against endwise thrust, and means for locking the keeper closed engaged through a pump piston rod confined by the keeper.

1,478,454. STENTER CHAIN. CHARLES GARONNE RENOLD, Manchester, England, assignor to Hans Renold Limited, Manchester, England. Filed Oct. 12, 1922. Serial No. 594,225. 10 Claims. (Cl. 26—8.)

1. A stenter chain comprising inner links arranged in pairs, tubular bushes connecting each pair of said inner links adjacent both ends thereof, outer links arranged in pairs, studs passing through and fitting piv-

otally within said bushes and connecting the pairs of outer links adjacent the ends thereof, spaced rollers carried by said chain at either side thereof outside the outer link pairs and so disposed that the running surfaces of the rollers are free from obstruction both above and



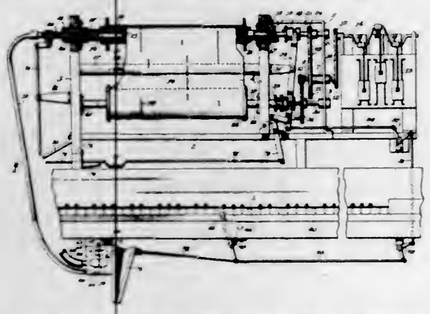
below the chain, additional spaced rollers and means for supporting them upon the chain with their axes at right angles to the pivoting axes of the connections between the links, said last named rollers being so disposed in relation to the chain that their running surfaces at both sides of the chain are free from obstruction.

1,478,455. SEWER-PIPE-JOINT CLEANER. JAMES S. RINEHART, Hastings, Nebr. Filed Jan. 12, 1921. Serial No. 436,832. 2 Claims. (Cl. 137—70.)



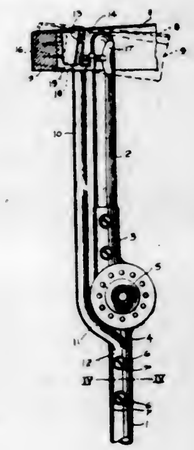
1. A sewer pipe joint cleaner, comprising a blade slightly curved in the direction of its width, and a handle fixedly connected to the blade substantially throughout the length of the blade and arranged in alinement with the longitudinal center of the blade and extending endwise rearwardly from the rear end of the blade, whereby the blade extends laterally at opposite sides of the forward portion of the handle.

1,478,456. PLAYER-PIANO REROLL MECHANISM. THEODORE ROTTER, Detroit, Mich., assignor of one-half to John Custer, Detroit, Mich. Filed Aug. 24, 1922. Serial No. 583,945. 8 Claims. (Cl. 84—122.)



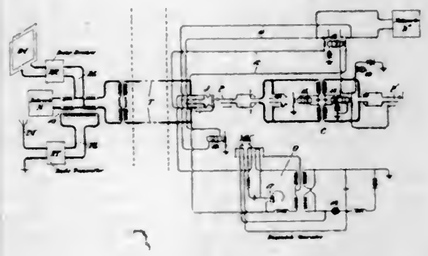
1. In a player piano wherein motive power is adapted to wind a music sheet from a carrier roll to a take-up roll;—means controlling the winding and adapted to place rewind means in condition to rewind the music sheet from the take-up roll to the carrier roll, said controlling means comprising a clutch controlling the application of power to said carrier and take-up rolls, a pneumatic actuating device adapted for operating said clutch, a pneumatic valve controlling the operation of said pneumatic actuating device, said carrier roll having a port therein normally covered by the music sheet and adapted to be uncovered as the music sheet is unwound from said carrier roll, and a hollow pintle at one end of said carrier roll establishing communication between said port of said carrier roll and said pneumatic valve and adapted to change air pressures in said pneumatic valve to cause actuation of said pneumatic actuating device and shifting of said clutch so that the music sheet is rewound after uncovering the port of said carrier roll.

1,478,457. WINDSHIELD-TOP SUPPORT. WALTER S. SAUNDERS, Pontiac, Mich., assignor to American Forging and Socket Co., Pontiac, Mich., a Corporation of Michigan. Filed Aug. 31, 1921. Serial No. 497,140. 2 Claims. (Cl. 296—120.)



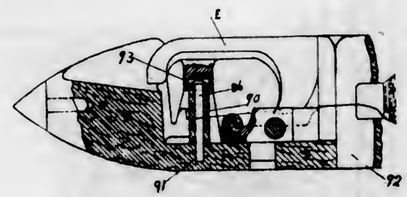
1. The combination of an automobile top, brackets carried thereby, said brackets having openings therethrough provided with flared ends and all of the opening walls integral with said brackets, thumb screws intermediate the flared ends of the bracket openings, and supports for said top adapted to be held by said brackets, said supports having extremities adapted to extend through the bracket openings and permit of said brackets being tilted relative to said supports and secured in such tilted positions by said thumb screws.

1,478,458. NETWORK CONTROLLING CIRCUITS. DON SMITH, San Francisco, Calif., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 24, 1921. Serial No. 495,082. 11 Claims. (Cl. 179—4.)



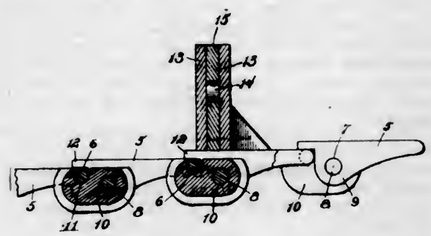
1. In a signaling system, a trunk circuit of such length that its impedance is not independent of terminal apparatus connected to one end of said trunk circuit, transmitting and receiving channels connected to the other end of the trunk circuit, a network for balancing said trunk circuit, said network having an impedance equal to the impedance of the trunk circuit as modified by the average impedance of various types of terminal apparatus which may be connected to the trunk circuit, and a network connected to the other end of the trunk circuit, said network having an impedance simulating that of the average terminal apparatus connected to the trunk.

1,478,459. SHUTTLE-BLOCK PIN. FRANK H. STETSON, Methuen, Mass., assignor to U. S. Bobbin & Shuttle Co., Providence, R. I., a Corporation of Rhode Island. Filed May 25, 1921. Serial No. 472,363. 3 Claims. (Cl. 139—223.)



1. In a shuttle for looms, having a delivery eye, suitable thread guiding recesses in the wood connecting therewith and a block recess; the combination of a threading block fixed in the block recess having a threading chamber, which has at the back a locking guide, a guide plate which extends into the threading chamber and at the back terminates in a guide hook which overlaps the locking guide, a horn near its front, a wearing member recess and a pin hole which extends therefrom through the top of the threading block, both behind and proximate said horn, together with a protecting wing adjoining said recess; with a pin fixed in said pin hole and extending down therefrom in a direction substantially perpendicular to the plane of the movement of the thread and terminating in a head; a wearing member of wear resisting material of the tubular form carried by and fixed on said pin which enters said wearing member recess in the threading block, and is free at its lower end to vibrate; and a friction member proximate the wearing member located at the front and bottom of the threading chamber.

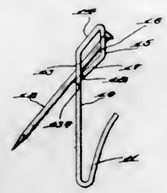
1,478,460. CONVEYER CHAIN. CHARLES L. STIBITZ and FRANK L. STIBITZ, Wilburton, Pa. Filed Mar. 14, 1922. Serial No. 543,761. 6 Claims. (Cl. 198—189.)



1. In a conveyer chain, a plurality of links each comprising side plates permanently connected together at one end by a cross bar, a pin connecting the other ends of the plates of each bar, and a coupling block carried by each pin and detachably connected to the cross bar of the next adjacent link.

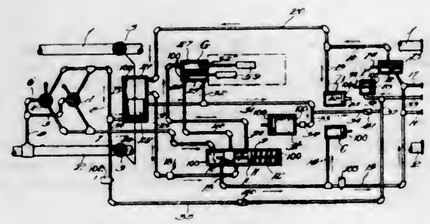
1,478,461. PICTURE HANGER. PERCIVAL G. UNDERWOOD, Philadelphia, Pa., assignor to Graff-Underwood Company, Somerville, Mass., a Corporation of Massachusetts. Filed July 17, 1922. Serial No. 575,456. 2 Claims. (Cl. 40—145.1.)

1. A hanger comprising a body equipped with a hook and with its upper portion constituting a nail-holding head and bent first diagonally outward then downward and finally inward, with two nail-receiving holes at different elevations in said head, the upper one of said holes being in the outer bent-down portion of the head and the lower hole being in the inner vertical body portion below said



diagonal outward bend, and with the extremity of the bent portion in position to press frictionally upon the nail at the locality of the lower and inner one of said holes.

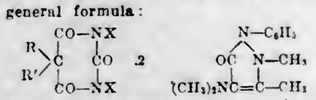
1,478,462. PNEUMATIC CONTROL SYSTEM FOR ELECTRIC SWITCH AND CAR, AIR, AND ELECTRIC COUPLERS. HERBERT E. VAN DORN, Chicago, Ill. Filed Oct. 3, 1921. Serial No. 505,136. 38 Claims. (Cl. 303—6.)



14. In a system of the character described, a train pipe having a valve therein, an electric switch, a pneumatic device for opening said switch, a pneumatic device for unlocking a car coupler, an actuator for said valve including a cylinder and a piston movable in said cylinder, said cylinder having a port in position to be uncovered by said piston when the latter is moved to a point to close said valve, a pipe connected to said port and communicating with the aforesaid penumatic devices, and a pressure valve arranged at such a point in the latter pipe that the air from said cylinder is permitted to flow freely into the pneumatic device associated with said switch and is prevented from entering the unlocking device for the coupler until a predetermined pressure has been established.

1,478,463. HYPNOTIC AND ANALGESIC COMPOUND. ERNEST H. VOLWILER, Chicago, Ill., assignor to The Abbott Laboratories, Chicago, Ill., a Corporation of Illinois. Filed June 19, 1922. Serial No. 569,560. 2 Claims. (Cl. 260—33.)

1. As a new article of manufacture, a compound having the general formula:

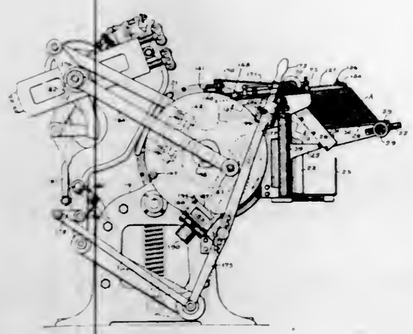


where R and R′ represent alkyl groups, one of which is greater than ethyl, and where X is H or a substitute therefor.

1,478,464. AUTOMATIC SHEET SEPARATING AND FEEDING MECHANISM. EDWARD T. WATERS, Omaha, Nebr. Filed Jan. 5, 1921. Serial No. 435,212. 17 Cains. (Cl. 271—62.)

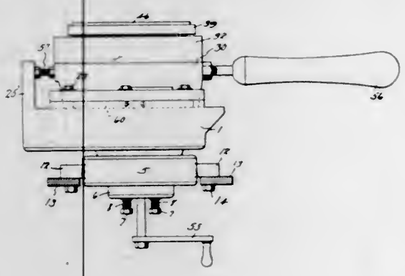
1. A sheet-separating mechanism comprising means for sustaining a pile of sheets, impelling-rollers engaging the

top of the pile and movable in fixed paths parallel therewith, and yielding means maintaining a substantially



constant pressure between the impelling-rollers and the sheets, whereby to form progressive waves in the portion of the pile adjacent to said impelling-rollers.

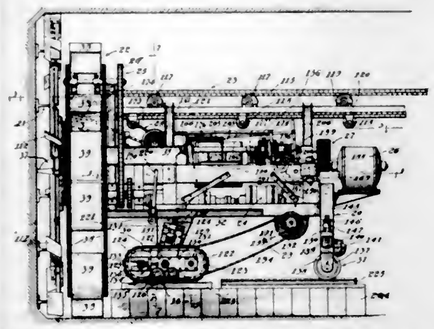
1,478,465. ELECTRICAL-HEATING-ELEMENT WINDING APPARATUS. EDWIN L. WIEGAND, Pittsburgh, Pa. Filed Dec. 22, 1920. Serial No. 432,373. 19 Claims. (Cl. 140—92.2.)



1. In a device of the character described, in combination, a plurality of pins about which a resistance element may be formed, a plate adapted to strip said element from said pins, means supporting both said pins and said plate, means carried by said supporting means for actuating said plate, carrying means adapted to removably support said supporting means, and operating means carried by said carrying means adapted to removably engage said actuating means to operate said actuating means.

1,478,466. TUNNELING MACHINE. LOUIS W. ANDERSON, Grand Rapids, Mich., assignor to The Tunnel & Sewer Machine Engineering Company, Buffalo, N. Y. a Corporation of New York. Filed Oct. 14, 1918. Serial No. 257,965. 12 Claims. (Cl. 262—7.)

1. A tunneling machine comprising a rotatry excavating tool, an endless-belt pick-up mechanism operating in a plane transverse to the axis of the tunnel for picking up the excavated material, a pivotally-mounted arm,



means for securing said arm in various adjusted positions, and guide-means for said endless belt supported by said pivoted arm.

1,478,467. SHOE. EDWARD H. BINNS, Pittsburgh, Pa. Filed Nov. 28, 1921. Serial No. 518,147. 1 Claim. (Cl. 36—56.)



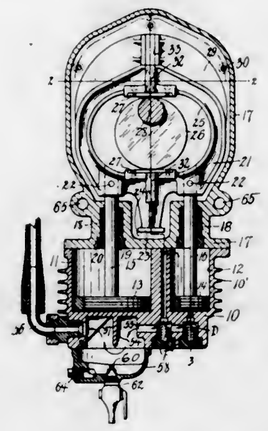
A lace shoe having a foot opening provided with shoe-string holding means, and being provided at its top edge margin with an exterior, lengthwise folded pull cuff, the inner fold of which is secured to said top edge margin exteriorly thereof, and the outer fold of which is unsecured for formation of a finger grip, each end of the folded cuff having two opposed fastener-carrying members whereby such members may be detachably secured together to form a shoe-string receiving pocket between each two end folds of the cuff; and the cuff ends being spaced rearwardly of and adjacent the shoe-string holding means at the upper end of the foot opening.

1,478,468. DETACHABLE SHOE CUFF. EDWARD H. BINNS and RALPH H. BINNS, Pittsburgh, Pa. Filed Apr. 29, 1922. Serial No. 557,331. 1 Claim. (Cl. 36—45.)



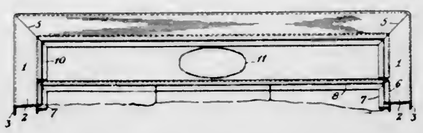
A lace shoe having a front opening provided at its upper ends with outwardly turned lacing studs and provided at its top with a detachable shoe cuff provided along its under inside margin with a lengthwise extending fillet, the under edge of which forms a shoulder bearing on the upper edge of the shoe top, and each front end of the cuff being provided with a hole whereby the cuff ends are severally attached to one of said lacing studs, each front end of the cuff rearwardly of said hole having a dependent flap, and such two flaps being opposed to the shoe top.

1,478,469. COMPOUND COMPRESSION PUMP. FRED S. CARVER, Newark, N. J. Filed Aug. 12, 1919. Serial No. 316,936. 6 Claims. (Cl. 230—27.)



1. In a pump, a cylinder containing member, pistons and piston rods for the cylinders, a hollow member secured to the first named member and into which the piston rods project from the cylinders, a combined crosshead and Scotch yoke and a rotatable actuating device therefor in the hollow member, and a pair of oppositely positioned plates secured about openings formed in the hollow member and containing bearings for the rotatable actuating device, and guiding means carried by the plates to guide the Scotch yoke member in rectilinear movement.

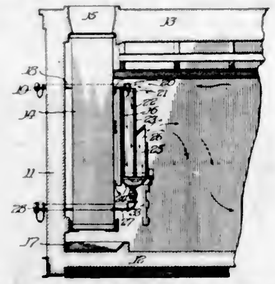
1,478,470. STOVE-TOP CONSTRUCTION. EARL V. COULSTON, Rock Island, Ill. Filed Dec. 8, 1922. Serial No. 605,561. 7 Claims. (Cl. 126—211.)



1. A stove-top frame made entirely from wrought metal and provided with an outer peripheral downwardly extending strengthening flange, an inner peripheral member forming a dropped offset, and an inner downwardly extending flange to which the stove sides may be secured.

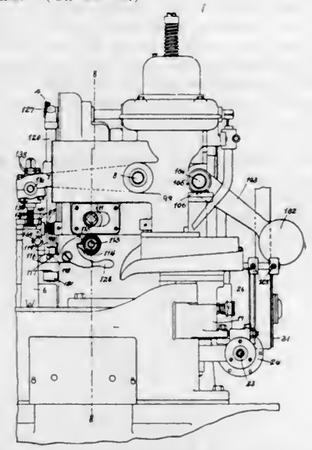
1,478,471. CAR REFRIGERATION. JOHN PERCIVAL DOWDING, Chicago, Ill. Filed Sept. 30, 1921. Serial No. 504,519. 15 Claims. (Cl. 62—104.)

1. In a refrigerating compartment, the combination of a bunker exposed therein, an air directing conduit disposed adjacent the bunker and having air inlet and outlet communication with the compartment adjacent



the bunker, a nozzle arranged to discharge longitudinally of the conduit, and a pipe for conveying refrigerating fluid to the nozzle from externally of the compartment.

1,478,472. HIGH-SPEED GEAR SHAPER. EDWIN R. FELLOWS, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a Corporation of Vermont. Filed Jan. 13, 1920. Serial No. 351,126. 30 Claims. (Cl. 90—9.)

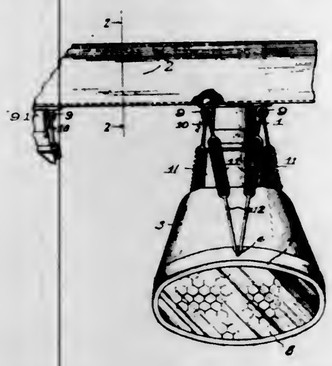


1. A high-speed gear shaping machine comprising a planing cutter with cutting projections in the shape and arrangement of a complete spur gear, a completely rotatable cutter spindle carrying said cutter, a work spindle, means constructed, arranged, and operating to effect reciprocating cutting and return strokes of one of said spindles relative to the other and simultaneous generating rotary movements of both spindles, one of said spindles being mounted with capability of movement bodily toward and away from the other in directions approximately perpendicular to the cutter spindle for determining the depth of cut, and a cam arranged and operable for so moving said spindle for said purpose.

15. In a gear shaping machine a spindle carriage mounted to move in substantially horizontal directions, and a means for moving said carriage back and forth to effect relative approach and separation between the cutter and the work, comprising a cam arranged to apply pressure against the carriage, and a weight acting upon the carriage to apply pressure against the cam.

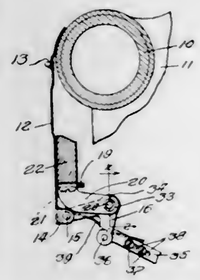
25. In a gear shaping machine, cutter and work spindles adapted to be simultaneously rotated, a source of power, gear trains from said source of power to both spindles, a part of the gearing being common to both trains, and means for disconnecting one of the gears in said common part, whereby to permit a manual adjustment of both spindles together.

1,478,473. COLOR-SCREEN PROTECTION AND SUPPORT. JAMES C. HERRON, Chicago, Ill., assignor to Reflector & Illuminating Co., Chicago, Ill., a Corporation of Illinois. Filed Dec. 7, 1921. Serial No. 520,462. 8 Claims. (Cl. 240—1.)



1. A lighting unit comprising a lamp, a reflector housing the same, a color screen disposed across the mouth of the reflector, a reinforced glass plate disposed outwardly of the screen, and an annular holder having a portion overlapping the outer face of the glass plate and having another portion housing the peripheries of the said screen, plate and reflector mouth.

1,478,474. LINE FINDER FOR TYPEWRITERS. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed Feb. 28, 1920. Serial No. 361,922. 10 Claims. (Cl. 197—190.)



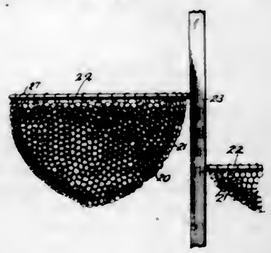
1. In a typewriter, a platen, a line finder for indicating the position of the printing line relative to said platen, means for adjusting said line finder relative to said platen in a direction transverse to said printing line, and means for adjusting said line finder relative to said platen in a direction parallel to said printing line.

1,478,475. ADVERTISING DEVICE FOR ROAD AND OTHER VEHICLES. ALFRED CHARLES JAGO and EDWIN ARMITAGE WADE, Croydon, England. Filed Apr. 18, 1923. Serial No. 632,961. 4 Claims. (Cl. 40—129.)

1. An advertising device for road and other vehicles comprising a cap adapted to be screwed on to the wheel-hub, a spindle, a ball-bearing supporting said spindle in said cap, a portion of the inner part of said ball-bearing forming a shoulder with said spindle, a flanged collar loose on said spindle and in engagement with said shoulder, a nut screwed on said spindle, a disc or the like located between said flanged collar and said nut, said cap, flanged collar, nut, and disc or the like having holes which can be brought into register with one another for the purpose of receiving a tool whereby the flanged collar, the nut and the disc or the like can be secured in place on the said spindle.



1,478,476. CARBIDE HOLDER FOR ACETYLENE GENERATORS. ALEXANDER FREDERICK JENKINS, Baltimore, Md. Filed Jan. 15, 1919. Serial No. 271,216. 8 Claims. (Cl. 48—21.)



1. In an acetylene generator a carbide holder consisting of a flexible pocket of separate interlocking members and supporting means therefor.

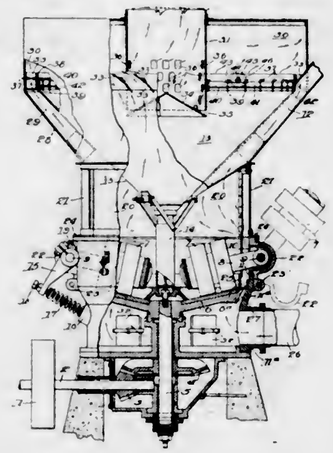
1,478,477. MEASURING INSTRUMENT AND DRILL GUIDE. WILLIE J. KLEYSTEUBER, Centralia, Ill. Filed Nov. 18, 1922. Serial No. 601,938. 7 Claims. (Cl. 255—51.)



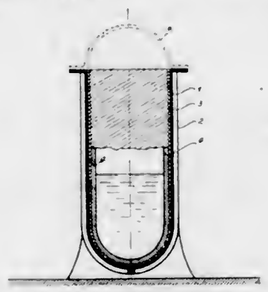
1. In an instrument for miners' use, the combination of a pair of rods, one crossing the other, a drill guide connected to the free extremity of one of the rods and adapted to engage the drilling tool of a drilling machine, and means for connecting the two rods so that they assume a substantially right angular relation to each other, one of said rods being adjustable in the direction of its length and transversely of the other rod.

1,478,478. PULVERIZING APPARATUS. OTTO A. KREUTZBERG, Lake Bluff, Ill. Filed May 25, 1921, Serial No. 472,500. Renewed May 19, 1923. 10 Claims. (Cl. 83—45.)

1. In combination with pulverizing mechanism designed to co-operate with an air blast moving upwardly past the discharge outlet of the pulverizer, an annular conduit for said blast opening upwardly and surmounted by an expansion chamber together with an air outlet remote from the upper end of the conduit and inclined deflector vanes in said upwardly open conduit.

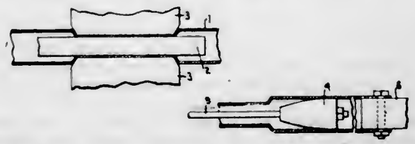


1,478,479. PROCESS AND APPARATUS FOR UTILIZING LIQUEFIED GASES. WALTER LACHMANN, Dresden, Germany. Filed Jan. 3, 1921. Serial No. 434,834. 10 Claims. (Cl. 62—1.)



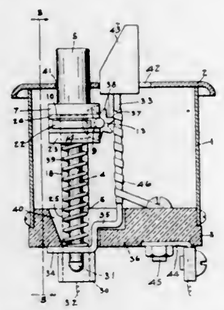
1. An auxiliary containing-vessel for liquefied gas comprising a shell, a gas receiving vessel composed of a poor conductor of heat in the said shell, and an intermediate body sandwiched in between the shell and the receiving vessel, the intermediate body being adapted to permit of a rapid propagation of pressure in the space between the receiving vessel and the shell.

1,478,480. MANDREL FOR TIRE TUBES. CLYDE E. LOWE, Cleveland, Ohio. Filed Aug. 16, 1922. Serial No. 582,117. 5 Claims. (Cl. 153—2.)



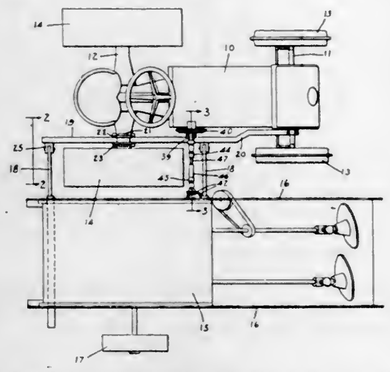
4. The process of making a tube mandrel which contains the steps of partially collapsing a metal tube, supporting its walls in such partially collapsed condition, impressing letters in said walls in intaglio while so supported, and afterwards simultaneously expanding all parts of the tube to an even surface and bending said tube lengthwise to curvilinear form.

1,478,481. SELF-SOLDERING CIRCUIT BREAKER. ROY H. MAPLE, Indianapolis, Ind., assignor to R. H. Maple Co., Indianapolis, Ind., a Corporation. Filed Apr. 26, 1918, Serial No. 230,882. Renewed Oct. 24, 1923. 41 Claims. (Cl. 200—124.)



1. A self-soldering circuit breaker, including a locking pinion, a support formed of one strip of metal and having angularly extending ends to which said pinion is soldered, and means in which said angular ends of the pinion support are removably supported for passing an electric current longitudinally through said support.

1,478,482. TRACTOR ATTACHMENT HITCH. OSCAR M. MARRIOTT, EDWIN W. HUNT, and ERNEST V. KIRBY, Urbana, Ill. Filed Mar. 5, 1921. Serial No. 449,870. 1 Claim. (Cl. 280—33.44.)



A tractor attachment hitch for lateral support from a self-propelled four wheel vehicle, including a longitudinal member rigidly secured to the front and rear wheel supports and between the wheels thereof, and a plurality of protruding and outwardly extending attachment supporting members hingedly supported for vertical movement upon said longitudinal member and extending substantially transversely thereof.

1,478,483. POLO MALLET. CHARLES C. MEURISSE, Chicago, Ill. Filed Aug. 21, 1922. Serial No. 583,071. 4 Claims. (Cl. 46—4.)

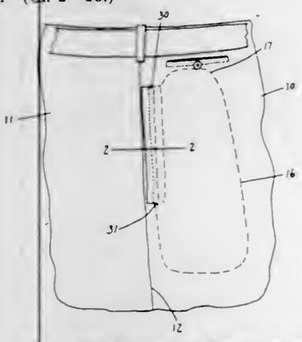
1. A polo mallet shaft comprising a shaft having the lower and major portion thereof resilient and having an upper relatively inflexible portion and a stiffening tube

housing the entire said inflexible portion and the adjacent upper portion of the resilient portion to limit the



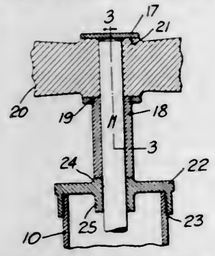
whipping action of the shaft when in use, the said tube being tightly contracted about the portion of the shaft housed thereby.

1,478,484. SELF-SEALING POCKET. HENRY MEYER, Anderson, Ind. Filed Apr. 1, 1922. Serial No. 548,759. 1 Claim. (Cl. 2—15.)



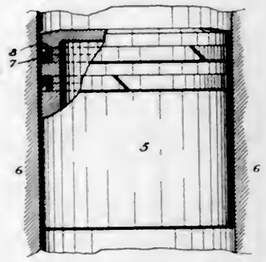
A self-sealing pocket including a tongue secured to one side of the pocket and extending therein, and a groove-forming portion having one of its ends secured to that side of the pocket opposite the tongue and having its other end unsecured and extending between the tongue and the first-mentioned side of the pocket.

1,478,485. HAND-OPERATED PUMP. ALBERT W. MORSE, Long Island City, N. Y. Filed Sept. 6, 1922. Serial No. 586,490. 4 Claims. (Cl. 230—27.)



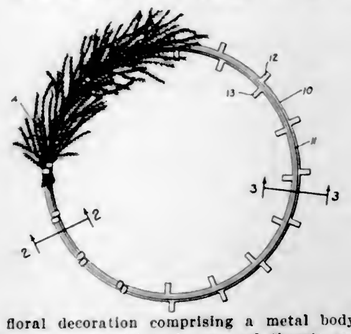
3. In a pump of the character described, a handle, a tubular ferrule fitting tightly over the said handle, a tubular shank being in length approximately twice its outside diameter, screwed tightly into the said ferrule, a plunger rod having a tight drive fit with the inner part of the said tubular shank and also being driven tightly into the said handle, and a cap having an inner tubular extension in sliding engagement with the said plunger rod, the downward stroke of the said plunger rod being terminated by contact of the said shank with the said cap.

1,478,486. PISTON RING. HARRY E. REAUME, Detroit, Mich. Filed June 8, 1922. Serial No. 568,878. 1 Claim. (Cl. 74—109.)



In piston packing, in combination, a cylinder, a piston having an annular groove, which piston is disposed in said cylinder for working, packing in said groove comprising a ring section having an outer face substantially the width of the groove bearing against the cylinder wall, which ring section is undercut on a bevel from such outer face to approximately the center of the ring which point is approximately the center of the groove when the ring is disposed therein and then cut away from such point to its inner face on a line substantially parallel the opposite lateral face of the ring which engages a side wall of the groove, and a second ring section substantially rectangular in cross section seated within the groove alongside said first ring section and below the bevel thereof to prevent lateral movement of said first ring section within the groove and to form an annular compression chamber within the groove between a side wall thereof, the outer face of the second ring section and the beveled face of the first ring section.

1,478,487. MOUNTING FOR FLORAL DECORATIONS. FRANK V. ROSS, Indianapolis, Ind. Filed Sept. 21, 1922. Serial No. 589,516. 7 Claims. (Cl. 41—12.)

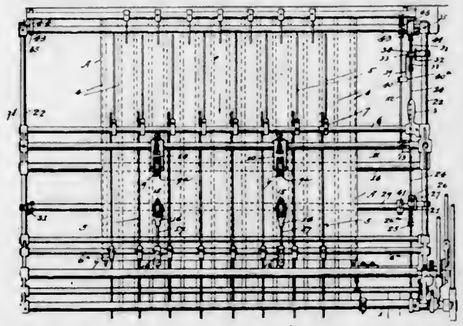


1. A floral decoration comprising a metal body portion, decorative material to be secured thereto, and individual clamping members formed integral with said body portion in position to extend over said material so as to embrace and clamp it rigidly thereon.

1,478,488. PRINTING PRESS. HERMAN J. SCHULTZ, Chicago, Ill. Filed Apr. 16, 1920. Serial No. 374,254. 5 Claims. (Cl. 271—56.)

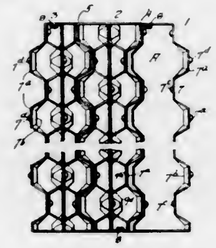
1. In a printing press the combination with mechanism for feeding the paper sheets to the press, mechanical

means comprising connections with feed rolls, pressure feed rolls and retarding mechanism automatically functioning with the improper feeding of the sheets to posi-



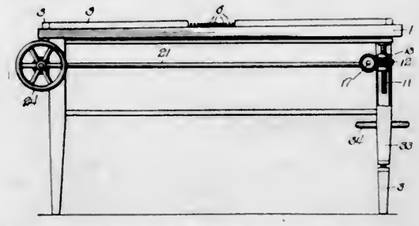
tion the feeding means in an inoperative position and the retarding mechanism in operating relation to the sheets.

1,478,489. RADIATOR CORE. CHARLES F. SPERY, Chicago, Ill. Filed Mar. 9, 1922. Serial No. 542,330. 6 Claims. (Cl. 257—130.)



1. In a radiator core, vertical series of semi-hexagonal ribbon shaped water channels, the air-spaces between said channels alternately widening and narrowing from top to bottom, and lozenge shaped air deflecting bodies centrally positioned within each widening.

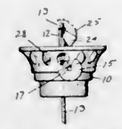
1,478,490. CONFECTION-MAKING MACHINE. EDWARD SPRAGUE, Jr., Chicago, Ill., assignor to The Kuehl Candy Co., Davenport, Iowa, a Corporation of Iowa. Filed Dec. 14, 1922. Serial No. 606,815. 15 Claims. (Cl. 107—1.)



1. In combination, a slab upon which confection in liquid form is adapted to be poured, means for moulding the confection in cellular-like formation, said means adapted to be projected into the confection.

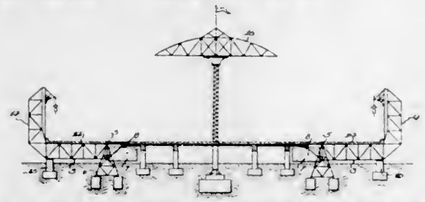
12. In combination, a slab upon which confection is adapted to be placed, a tiltable frame for said slab, feed screw means for tilting said frame, cell forming means on said frame for projecting above the surface of said slab, and means for controlling the movement of said cell forming means, said means comprising a carriage movable by a manually operable feed screw mechanism.

1,478,491. LAMP EXTINGUISHER. FEDOR STIYOUK, Narol, Canada. Filed Aug. 9, 1922. Serial No. 580,683. 1 Claim. (Cl. 67—78.)



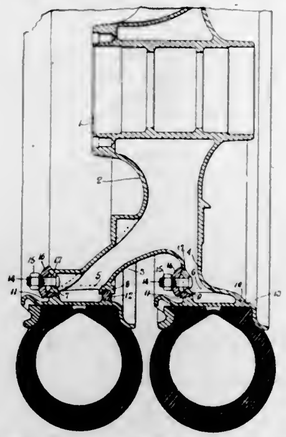
In a lamp extinguisher of the class described, a rotatable sleeve, a disc at one end of said sleeve for rotating the same in one direction, a perforated lip at the opposite end of said sleeve, a shouldered lever secured with one end to said lip, a cap to which the other end of said lever is secured adapted to be swung into extinguishing position upon the rotation of said disc and sleeve in one direction, and a spring engaging the shoulder of said lever for automatically returning the parts into their normal position of rest after each extinguishing operation.

1,478,492. BUILDING CONSTRUCTION. JOSEPH B. STRAUSS, Chicago, Ill. Filed Sept. 12, 1921. Serial No. 499,925. 11 Claims. (Cl. 189—1.)



1. A building construction comprising a wall and roof section, and means for moving said wall and roof section to an open position where the wall becomes a floor and the roof a wall and holding means for holding the parts in this latter position so that the floor can be used as a floor.

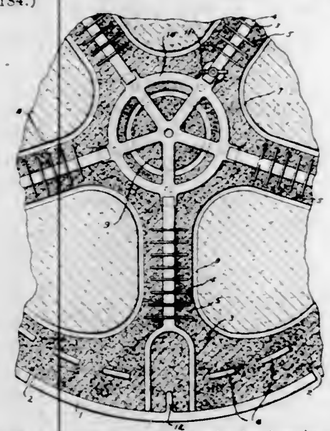
1,478,493. WHEEL. FRANK H. WALKLEY, Dayton, Ohio, assignor to The Dayton Steel Foundry Company, Dayton, Ohio, a Corporation of Ohio. Filed Nov. 3, 1922. Serial No. 598,894. 8 Claims. (Cl. 301—13.)



8. In a dual pneumatic wheel, a pair of wheel rims carried by said wheel, spaced from one another, a slot in each rim, said slots having their open ends adjacent to one another on the adjacent edges of said means, the inner rim having means to support and lock a demountable rim thereon, together with a tire and valve stem carried thereby, demountable means on the outer rim

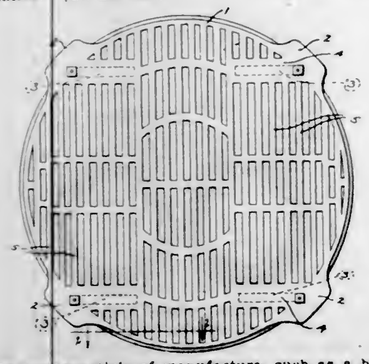
adapted to be located across the slot in the outer wheel rim for supporting the demountable rim on the outer wheel rim at the same level as the inner demountable rim is supported on the inner wheel rim, and means in said slot at the inner end thereof in the outer wheel rim to permit of the free entrance of the valve stem in said slot when the supporting ring is in position, whereby both demountable rims are mounted on the same level and they can be freely mounted in succession upon the wheel rims which respectively carry them.

1,478,494. METHOD FOR CASTING STEEL WHEELS. GEORGE WALTHER, Dayton, Ohio, assignor to The Dayton Steel Foundry Company, Dayton, Ohio, a Corporation of Ohio. Original application filed June 5, 1920, Serial No. 386,850. Divided and this application filed Dec. 24, 1921. Serial No. 524,619. 5 Claims. (Cl. 22—184.)



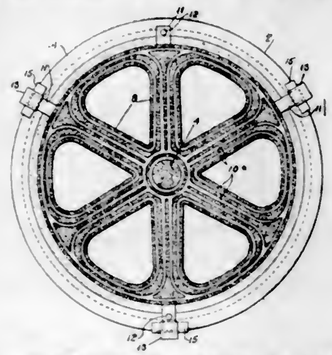
1. In a method of moulding wheels, forming the outer dimensions of said wheel by a pattern in a flask containing the sand, forming a rim and spoke core adjacent a segment of a ring and its spoke arbor, placing a plurality of said segments constituting a ring together with their spoke arbors and their cores within said flask, forming a hub core about a hub arbor, and positioning said segments, arbors and cores in said flask, whereby castings may be made and the segments and spoke arbors may be used for successive castings.

1,478,495. BOTTOM BOARD. GEORGE WALTHER and JOHN A. WINTERS, Dayton, Ohio, assignors to The Dayton Steel Foundry Company, Dayton, Ohio, a Corporation of Ohio. Filed Apr. 3, 1922. Serial No. 548,954. 8 Claims. (Cl. 22—90.)



1. In a new article of manufacture, such as a bottom board for castings, a bottom board consisting of a plurality of spaced members adapted to accommodate surplus sand therebetween.

1,478,496. WHEEL. GEORGE WALTHER, Dayton, Ohio, assignor to The Dayton Steel Foundry Company, Dayton, Ohio, a Corporation of Ohio. Filed July 5, 1922. Serial No. 572,833. 4 Claims. (Cl. 22—129.)



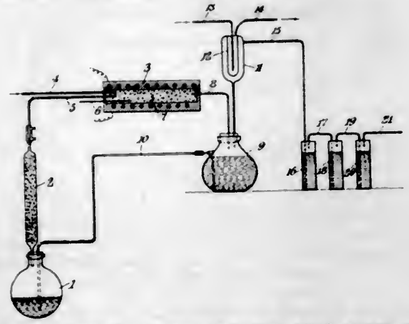
1. In combination a flask consisting of a drag portion, a bottom board, green sand therein, hub, spoke and rim cores, cope cap core, means in said last mentioned core for locating it with respect to the flask, means of clamping said locking means to the flask, and a pouring cap core and means to maintain last mentioned core in position.

1,478,497. BELT. ROY WINSLOW WELCH, Kelso, Wash. Filed Mar. 21, 1921, Serial No. 454,097. Renewed May 17, 1923. 5 Claims. (Cl. 224—5.)



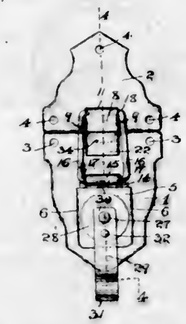
4. A fisherman's belt comprising a strip of flexible material, means at the ends thereof for adjustably connecting the same around the waist of the wearer, said belt comprising inner and outer and a central ply, fastening means between said plies, said outer ply being divided into a series of sections attached to said central ply to form compartments, said inner ply forming a long compartment with the central ply.

1,478,498. METHOD OF MANUFACTURING ALKYL ESTERS. HERMAN F. WILLKIE, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Dec. 29, 1921. Serial No. 525,758. 16 Claims. (Cl. 260—166.)



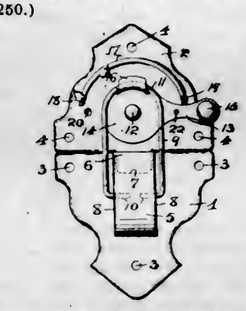
7. The method of manufacturing alkyl esters comprising allowing an acid and an excess of an alcohol to interact in a gaseous state in the presence of a catalyst maintained at a temperature sufficient to drive off the water formed.

1,478,499. TRUNK CATCH OR FASTENER. GUSTAV WILLRINGHAUS, Newark, N. J., assignor to The R. Neumann Hardware Co., a Corporation of New Jersey. Filed Nov. 15, 1921. Serial No. 515,392. 4 Claims. (Cl. 292—247.)



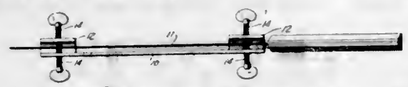
1. A catch or fastener for trunks, and the like, comprising an upper and a lower body-member, a box-like element mounted upon said lower body-member, said element being provided with an arc-shaped slot, a slide within said box-like element, said slide having a portion projecting from said box-like element, and said slide being provided with an angularly shaped slot, a retaining loop pivotally connected with the projecting portion of the slide, a loop-receiving element mounted upon the other body-member, with which said loop is adapted to be brought into engagement for bringing said body-members into locked relation, a pivot-stud projecting from said lower body-member, through the slot in said slide, and through a perforation in said box-like element and projecting beyond the outer face of the latter, an arm mounted upon the projecting portion of said pivot-stud, and a second stud extending rearwardly from said arm, through the slot in said box-like element and into the slot in said slide for moving said slide when the arm is actuated.

1,478,500. TRUNK CATCH OR FASTENER. GUSTAV WILLRINGHAUS, Newark, N. J., assignor to The R. Neumann Hardware Co., a Corporation of New Jersey. Filed Nov. 15, 1921. Serial No. 515,393. 4 Claims. (Cl. 292—250.)



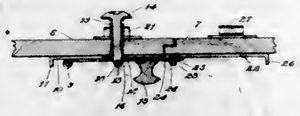
1. A catch or fastener for trunks, and the like, comprising a pair of body-members, one of said members being provided with an enlargement, and the other body-member being formed with a series of pin-receiving depressions forming stops, a retaining loop pivotally connected with said enlargement, a lever pivotally mounted upon the outer face of said last-mentioned body-member, a stop-pin extending rearwardly from said lever, adapted to enter into arresting engagement with either of said receiving depressions, and means carried by said lever, said means being adapted to be moved into and out of retaining engagement with said loop, with the respective movements of said lever.

1,478,501. KNIFE GUIDE. WILLIAM ANOR WOODIN, Albany, Ga. Filed June 21, 1922. Serial No. 569,774. 2 Claims. (Cl. 30—20.)



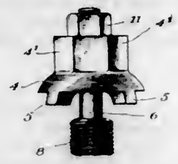
1. A knife gauge comprising a plate of substantially the same length as the blade with which it is adapted to coact, said plate being provided at one side and at the ends thereof with integral flanges parallel therewith, and adjustable engaging means carried by the plate and said flanges for engaging therebetween the blade of a knife to hold the same in adjusted position.

1,478,502. ROLLER-DOOR LATCH. PAUL HOMER WOOLHETHER, Truax, Saskatchewan, Canada. Filed Sept. 26, 1921. Serial No. 503,449. 3 Claims. (Cl. 292—228.)



1. A latch of the character described positioned on a pair of sliding doors and adapted to automatically lock the said sliding doors on the closing movement of the said doors, the said latch consisting of primary and secondary body members positioned on the said sliding doors and one of said members formed with a lug to engage the door frame, a latch member pivotally mounted on the said primary body member, there being an aperture configurated in the said latch member for engagement with a triangular member configurated on the said secondary body member on the closing movement of the said sliding doors.

1,478,503. PORT-PLUG WRENCH. ALBERT J. YOUNG, Baltimore, Md., assignor of one-half to Harry G. Wischmann, Brooklyn, N. Y. Filed Aug. 10, 1922. Serial No. 580,926. 3 Claims. (Cl. 81—90.)

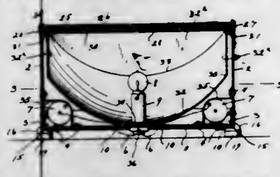


3. A wrench for use in connection with port plugs having notches in their upper periphery, including a substantially cylindrical member free from lateral projections and provided with flat gripping surfaces at one end thereof, lugs extending from the opposite end of said member for engaging said notches, said member being formed with a central aperture extending from end to end thereof and adapted to receive a bolt, whereby the same may be locked to a port plug.

1,478,504. X-RAY-FILM HOLDER AND EXAMINING FRAME. JOHN A. ADLER, North Milwaukee, Wis. Filed Feb. 10, 1923. Serial No. 618,295. 2 Claims. (Cl. 40—132.)

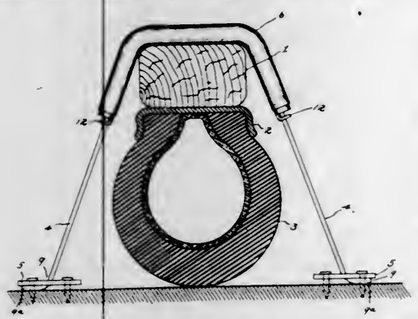
1. An X-ray film holder comprising a rectangular casing having a bottom and side walls, a parabolic reflector disposed within the casing at its corners extending up to the top of the frame and between the corners having vertical portions extending to the top of the frame, said reflector at its upper edge being formed with an out-

wardly extending flange bearing at its edge against the side walls, a strip of packing material resting upon said flange, a rectangular frame hinged to the side walls of the casing, a glass plate carried by said frame and a



second glass plate resting at its margins upon said strip of packing material and so mounted as to permit the two glass plates to come in relatively close proximity to each other when the cover is lowered.

1,478,505. SECURING DEVICE FOR VEHICLES. WILLIAM W. BLAKELY, Detroit, Mich. Filed Dec. 5, 1921. Serial No. 519,820. 9 Claims. (Cl. 188—32.)



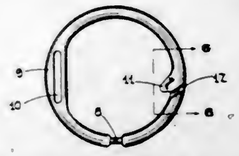
7. A device of the class described comprising a member having a longitudinally extending channel therein, a member located in said channel, and a padding surrounding the first-mentioned member and forming a bearing for the last-mentioned member in said channel.

1,478,506. COMBINED TIRE VALVE AND PRESSURE GAUGE. OSCAR F. R. BROMBERG, Los Angeles, Calif. Filed July 2, 1920. Serial No. 393,641. 6 Claims. (Cl. 152—11.5.)



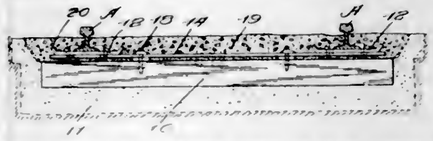
1. In a pressure gauge the combination with a pressure cylinder, of a pressure plunger having a plurality of extended guide bearings engaging the inner walls of said cylinder, of a rack formed upon one of said extended bearings, a pinion meshing with said rack, and a visible pressure indicator actuated by said rack and pinion.

1,478,507. HARNESS CONSTRUCTION. STACY D. BROOKS, Macklin, Saskatchewan, Canada. Filed May 16, 1922. Serial No. 561,449. 4 Claims. (Cl. 24—225.)



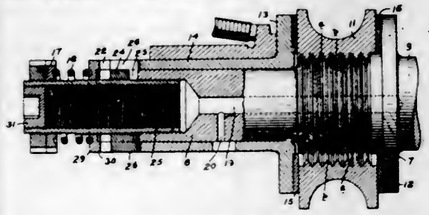
1. A harness connection comprising a connecting ring having an inwardly extending finger and a grove located at the side of the finger, said ring having a flattened slotted portion to receive a harness strap.

1,478,508. METHOD OF AND MEANS FOR RECONSTRUCTING TRACK. WILLIAM P. DAY, Cleveland, Ohio, assignor to The International Steel Tie Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 30, 1923. Serial No. 654,616. 6 Claims. (Cl. 238—2.)



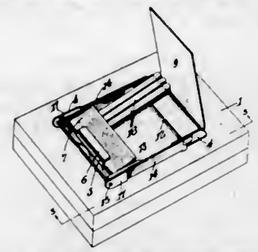
1. A method of repairing street railways consisting in removing the surface material to a depth sufficient to uncover the upper surface of the original rail supporting structure, placing a relatively flat rail supporting frame over the original rail supporting structure, connecting the rail supporting frame to the original rail supporting structure, placing rails upon the frame and engaging them therewith, and filling the space between and on each side of the rails with a surface material.

1,478,509. ROLL FOR ROLLING MILLS. SAMUEL E. DIESCHER, Wilkinsburg, Pa., assignor to S. Diescher & Sons, a Partnership consisting of Samuel S. Diescher and August P. Diescher. Filed Feb. 27, 1922. Serial No. 539,424. 9 Claims. (Cl. 80—58.)



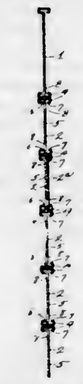
8. A roll for rolling mills having in combination a body portion provided at one end with an extended neck and with a collar at the opposite end, and having peripheral ribs, an annulus having an internal diameter greater than the external diameter of the body portion and provided with ribs adapted to intercalate with the ribs on the body portion, a sleeve movable along the neck of the body portion having a ring adapted to bear against an end of the annulus and to press the latter against the collar, the ring and collar having a diameter greater than the internal diameter of the annulus, washers interposed between the ends of the annulus and the ring and collar respectively, and means for moving the sleeve along the neck, an axial passage extending through the neck into the body portion and having a branch passage extending radially through the body portion and means for forcing a lubricant through such passages into the annulus.

1,478,510. TOBACCO-USER'S APPLIANCE. JOSEPH DUSEK, New York, N. Y. Filed Dec. 21, 1920. Serial No. 432,222. 10 Claims. (Cl. 206—48.)



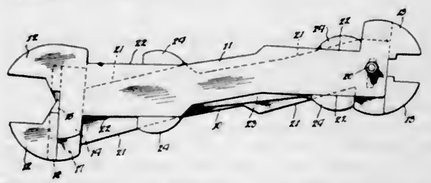
1. In an attachment of the character described, a base, means for securing a container for matches to one side of said base, and means for securing said base upon its opposite side to the cover of a container for cigarettes or the like.

1,478,511. REVERSIBLE SIGN. CHARLES A. FETTERS, Washington, D. C., assignor to Xlent Company, Washington, D. C. Filed Oct. 28, 1922. Serial No. 597,550. 15 Claims. (Cl. 40—128.)



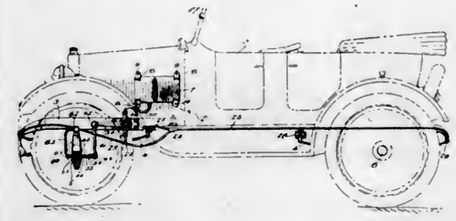
1. A reversible sign, said sign comprising a plurality of sign sections, said sign sections being pivotally connected together, channel members carried by the adjacent sides of the sign sections, and interengaging means carried by the channel and forming means for maintaining the sign sections in the same plane.

1,478,512. WRENCH. ANDREW S. FISHER, Altoona, Pa., assignor of one-half to William H. Fisher, Altoona, Pa. Filed July 17, 1922. Serial No. 575,511. 8 Claims. (Cl. 81—77.)



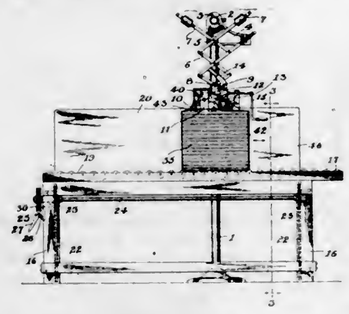
1. A wrench including companion jaw members providing a pair of coacting jaws at opposite ends thereof, and an adjusting element housed between the opposing faces of the jaw members coacting with the side edges of said members and movable longitudinally thereof for shifting the members transversely and adjusting the jaws.

1,478,513. LUBRICATING SYSTEM. PALEMON H. GASKINS, Jacksonville, Fla. Filed Mar. 29, 1922. Serial No. 547,827. 4 Claims. (Cl. 184—7.)



1. In combination, two relatively movable flexibly spaced parts, a source of lubricating fluid supply supported upon one of said parts, a control member supported upon the same part at a level lower than that of the source of supply, means for conducting lubricant from the source of supply to said control member, and means flexibly connecting the control member with the second of said parts for conducting lubricant from the control member to the second of said parts and for actuating the control member to regulate the flow of lubricant through the latter.

1,478,514. WIRE-BUNDLING MACHINE. ALEC J. GERRARD and PARVIN WRIGHT, Chicago, Ill. Filed June 14, 1922. Serial No. 568,308. 9 Claims. (Cl. 100—31.)



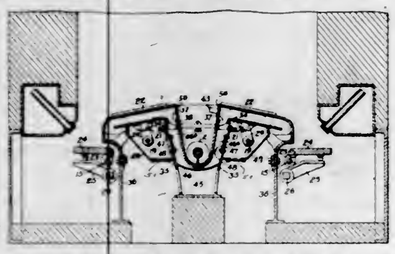
1. In a bundling machine for hot or sticky articles, the combination of a support beyond which said articles may project; a wire tying machine positioned above said support provided with means for holding and securing together two bights of a wire; and a vertically positioned partition against which the ends of said articles may be abutted, substantially as described.

5. In a bundling machine for hot or sticky articles, the combination of a support beyond which said articles may project; a wire tying machine positioned above said support provided with means for holding and securing together two bights of a wire; a vertically positioned partition against which the ends of said articles may be abutted; a second support over the edge of which said articles may also project; and a second wire tying machine positioned above said second support; substantially as described.

1,478,515. STOKING MECHANISM. GEORGE J. HAGAN, Pittsburgh, Pa., assignor to Darwin S. Wolcott, trustee, Sewickley, Pa. Filed Aug. 13, 1918. Serial No. 249,672. 3 Claims. (Cl. 110—47.)

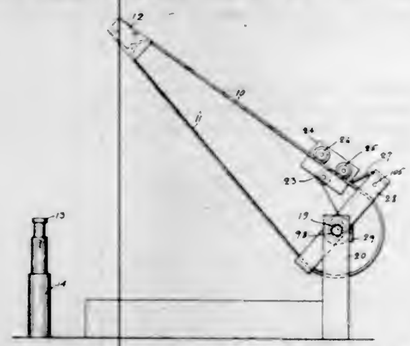
3. A stoking mechanism having in combination a retort, fuel supporting means extending from the retort at an angle to the direction of movement of fuel in

the retort, a movable ash supporting plate adjacent to the outer ends of the fuel supporting means for the reception of ashes, a screw for feeding fuel into the re-



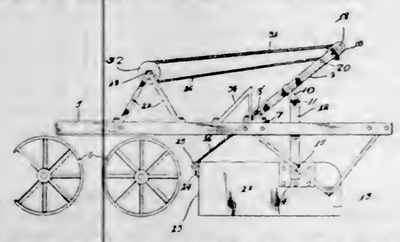
tort and means for rotating the screw and reciprocating the ash plate relative to the fuel support to advance ashes across the ash plate.

1,478,516. MACHINE FOR AUTOMATICALLY SHADING PLANTS AND UNCOVERING SAME. WILHELM HERRMANN, New York, N. Y. Filed Apr. 6, 1922. Serial No. 550,028. 7 Claims. (Cl. 47—27.)



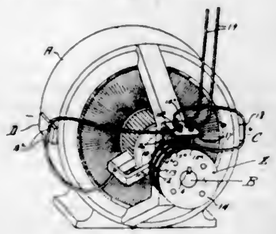
1. A plant shading and uncovering apparatus of the class described comprising a frame, electro-mechanically operated means for raising and lowering said frame, thermometrically operated circuit closing means for operating said electro-mechanism means to lower said frame upon the rise in temperature above a certain predetermined point, and for raising said frame upon the falling of the temperature below a certain predetermined point, and means for coupling a plurality of frames for simultaneously shading and uncovering a multitude of planted cold frames arranged in one row.

1,478,517. MOTOR SCRAPER. HARRY HIGHAM, Fenwood, Saskatchewan, Canada. Filed Apr. 7, 1921. Serial No. 459,497. 3 Claims. (Cl. 37—126.)



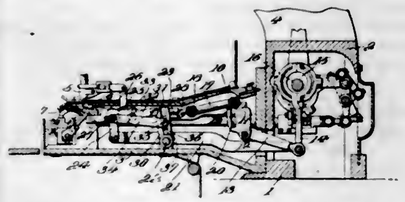
1. In an earth scraper, a wheel-supported frame, a transverse shaft journaled therein, lever bars secured to opposite ends of said shaft, straps secured to said bars between the ends of the latter, a scoop, bars pivotally supported from said straps and pivotally connected with the scoop to one side of its longitudinal centre whereby said scoop is pivotally mounted for dumping, and a cable attached at one end to one end of the scoop and over said lever bars.

1,478,518. CONVERTER FOR DIRECT-CURRENT GENERATORS. MARION JAY HOCKLEY, Ridgway, Colo., assignor of one-half to Frederick Bergner, Ridgway, Colo. Filed Apr. 7, 1923. Serial No. 630,547. 3 Claims. (Cl. 171—252.)



1. The combination with a direct current generator having an armature and having positive and negative terminals, of a commutator rotating with the armature and formed to provide parallel pairs of insulated long and short segments and two pairs of brushes engaging the face of the commutator, the long segment having a length equal to the circumferential distance between the brushes, the pairs of long segments being disposed in alternating relation to two pairs of short segments, each of the short segments being less than the distance between the brushes and each of the short segments being electrically connected to the diagonally related short segment, two of the brushes being electrically connected respectively to the positive and negative terminals and the other two brushes being connected to the line.

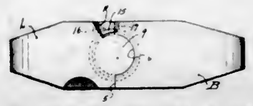
1,478,519. DIFFERENTIAL FEEDING MECHANISM FOR SEWING MACHINES. ROBERT R. HUGHES, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Original application filed Oct. 17, 1919, Serial No. 331,312. Divided and this application filed June 9, 1920. Serial No. 387,631. 6 Claims. (Cl. 112—208.)



5. A sewing machine including in combination a main feed bar, a feed dog carried thereby, means for moving the main feed bar back and forth, and means for raising and lowering the front end of said main feed bar, an auxiliary feed bar at each side of said main feed bar and mounted for movement up and down with said main feed bar and for independent movement endwise of the main feed bar, an auxiliary feed dog carried by each auxiliary feed bar, a pivoted arm at one side of the main feed bar, a link connecting said pivoted arm with the auxiliary feed bar adjacent the same, a link connecting said pivoted arm with the main feed bar, said link being capable of adjustment with said arm for varying the throw of the auxiliary feed bar, a second pivoted arm at the other side of the main feed bar, a link connecting said second arm to the auxiliary feed bar adjacent the same,

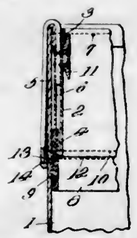
a link connecting said second arm with the main feed bar for oscillating said second arm, said link having an adjustable connection with said second arm whereby the throw of the auxiliary feed bar actuated thereby may be varied.

1,478,520. HOOK. SAMUEL P. JOHNSON, Ethelsville, Ala. Filed Dec. 30, 1922. Serial No. 609,879. 2 Claims. (Cl. 278—113.)



1. A hook of the class described, a body reduced in thickness to provide an extension, said body and extension at the junction thereof being provided with an opening, a latch normally overlying the extension and provided with an integral pivot member extending through the opening, the end wall of the latch at one side of the pivot member serving as a stop to limit movement of the latch member in one direction, the portion of the end wall of the latch member at opposite sides of the pivot member being on an angle to permit the latch member to have limited outward swinging movement, and means for constantly urging the latch in the first direction and to maintain the latch in a position to overlie the extension, the opposite faces of the latch and extension being provided thereacross with recesses normally registering to provide an opening.

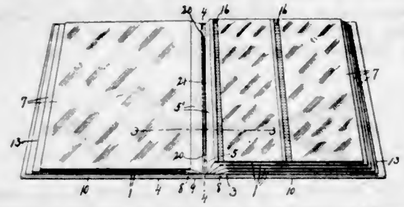
1,478,521. WAISTBAND FOR TROUSERS. BENJAMIN V. KERSHNER, Kansas City, Mo., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 22, 1920. Serial No. 367,966. 6 Claims. (Cl. 2—142.)



1. The combination of the body fabric of trousers, a stiffening strip at the waist band, said body fabric being folded over the upper edge of said stiffening strip, a lining strip placed against the inner face of the folded-over edge of the body fabric, and a line of stitching passing through said lining strip, said folded-over edge of the body fabric and the stiffening strip and concealed from view at the outer face of the garment by the body fabric, a binding strip enclosing the lower edge of the stiffening strip, a line of stitching passing through the lower edge of the lining strip and through the binding strip and stiffening strip, and a second line of stitching passing through said binding strip, stiffening strip and body fabric, a series of belt loops having their upper ends extending between the lining strip and the stiffening strip and secured by the line of stitching joining the upper edges thereof, a tacking strip secured to the stiffening strip and binding strip by a line of stitches passing through the binding strip and stiffening strip, and stitches passing through the tacking strip, the body fabric and the lower end of the belt loops for securing the same.

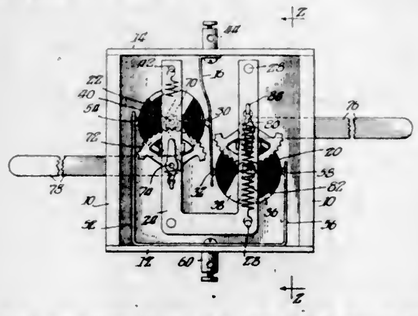
1,478,522. LOOSE-LEAF-BINDER BOOK. LEE KINGSLEY, Syracuse, N. Y. Filed Feb. 11, 1922. Serial No. 535,680. 3 Claims. (Cl. 129—19.)

1. In a loose leaf binder of the character described, the combination of a binding strip, a series of flaps adhesively secured to the binding strip, tab strips hingedly secured to the flaps and each provided with a plurality



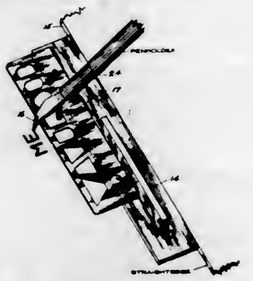
of tabs along its free edge, and a plurality of series of display sheets, those of each series being adhesively secured to different tabs of the same strip.

1,478,523. ELECTRIC SWITCH. WILLIAM S. LA LONDE, Evanston, Ill. Filed Aug. 9, 1920. Serial No. 402,260. 4 Claims. (Cl. 200—9.)



3. In mechanism of the class described, a pair of independently movable switch elements, and three pairs of electric spring contact members, one pair of spring contact members being operatively common to both switch elements and the other pairs being operatively disposed to said switch elements respectively.

1,478,524. LETTERING APPLIANCE. WILLIAM J. LILLY, Chicago, Ill. Filed Dec. 29, 1921. Serial No. 525,696. 1 Claim. (Cl. 33—174.)

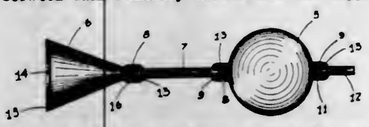


A device of the character described, comprising a plate having perforated forms representing the elements of alphabetical letters and numerals, a pen having a projecting member attached thereto for following the interior of perforated forms; said member being adapted to detachably receive sleeves of different outer dimensions for varying the size of letters reproduced.

1,478,525. SWIMMING BUOY. HENRY MACKENZIE, Stanmore, Alberta, Canada. Filed Sept. 5, 1922. Serial No. 586,305. 1 Claim. (Cl. 9—21.)

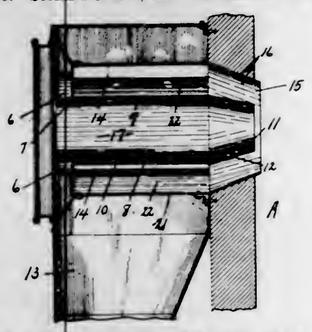
A swimming buoy comprising a handle having reduced end extensions; a spherical hollow floating member having radial nipples projecting from diametrically opposite points; one of said nipples being mounted on one of the reduced end extensions of said handle; means surround-

ing said nipple and the adjacent portion of said nipple to form an air-tight and water-tight connection therebetween; an auxiliary handle projecting from the remaining nipple of said spherical hollow floating member; means for forming an air-tight and water-tight connection between said auxiliary handle and the nipple con-



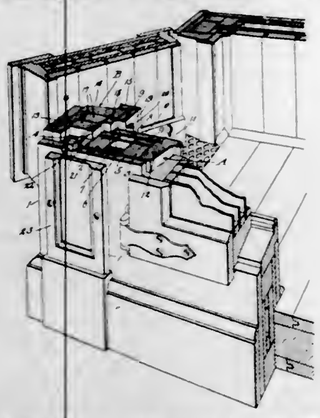
necting therewith; a bell-shaped hollow floating member, means for mounting the small end of said bell-shaped hollow floating member on the other reduced end extension of the first mentioned handle; and means for forming a water-tight and air-tight connection between said bell-shaped hollow floating member and said first mentioned handle.

1,478,526. PROCESS AND APPARATUS FOR REMOVING A VAPORIZABLE SUBSTANCE FROM POWDERED MATERIAL. OLIVER EDWARD MERRELL, Syracuse, N. Y., assignor to Merrell-Soule Company, Syracuse, N. Y., a Corporation of New York. Filed Nov. 24, 1920. Serial No. 426,167. 12 Claims. (Cl. 34—7.)



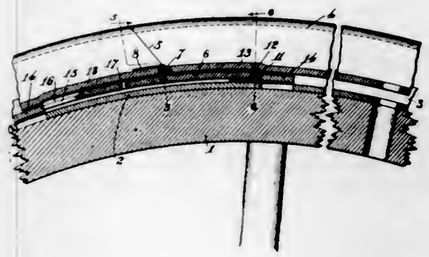
9. In an apparatus of the class described, a distributing chamber having a substantially convolute wall, an annular passage in communication with said distributing chamber, means for introducing commingled air and powder under pressure into said distributing chamber, and an air conduit within the annular passage.

1,478,527. REFRIGERATOR CONSTRUCTION. REUBEN E. OTTENHEIMER, Baltimore, Md. Filed July 2, 1923. Serial No. 649,084. 3 Claims. (Cl. 20—11.)



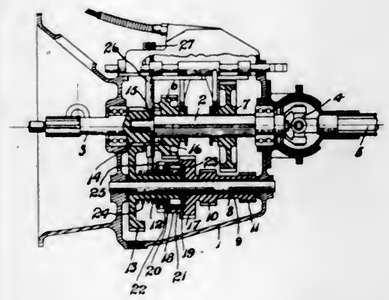
1. In a refrigerator construction a door jamb including a stationary section having a stepped face, a removable section having a stepped face, means for drawing together the stepped faces of the two sections, and holding them in contact.

1,478,528. RIM. LOUIS H. PERLMAN, New York, N. Y., assignor to General Motors Corporation, a Corporation of Delaware. Filed Nov. 1, 1919. Serial No. 334,918. 3 Claims. (Cl. 301—32.)



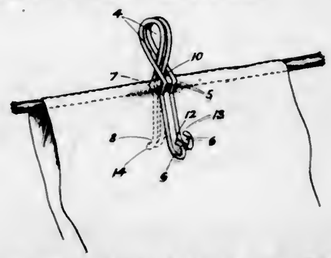
1. In a rim structure for use upon a vehicle wheel, the combination of a cross-cut demountable rim, an operating lever for the end portions of the rim, a pintle fixed to the lever and extending along the cut edge of one end of the rim, an eye fixed to the rim and surrounding said pintle, a pintle fixed to a part of the other end portion of the rim and extending along the edge of the end of the lever, and an eye fixed to the lever and surrounding the last-named pintle, the last named eye and the opposite end of the lever being adapted to cooperate with driving lugs upon the wheel.

1,478,529. TRANSMISSION GEARING. BAYARD E. RICHARDSON, Grand Rapids, Mich., assignor to Mechano Gear Shift Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Dec. 5, 1921. Serial No. 519,877. 6 Claims. (Cl. 74—55.)



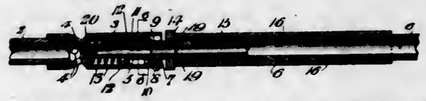
1. In combination, driving and driven shafts, a transmission gearing interposed between the shafts and adapted to connect the same to give a plurality of forward speeds and a reverse speed of the driven shaft with respect to the driving shaft, means within the transmission gearing for positively driving the driven shaft from the driving shaft but rendering ineffective the driving of the driving shaft by the driven shaft on the same direction of movement, brake operating means, and connections between said brake operating means and said first mentioned means for rendering the first mentioned means ineffective automatically with the operation of the brake operating means, whereby the driving and driven shafts are connected irrespective of their direction of movement.

1,478,530. CLOTHES PEG. JOHN WILLIAM ROONEY, Dunedin, New Zealand. Filed Apr. 26, 1923. Serial No. 634,753. 1 Claim. (Cl. 24—139.)



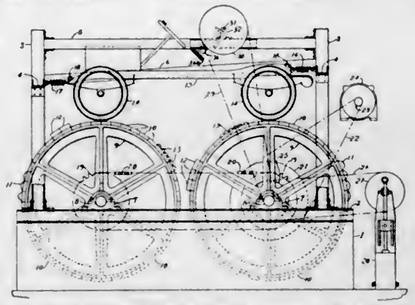
A clothes peg consisting of a single piece of wire bent upon itself to form a loop with a closed end and oppositely disposed free ends, the opposing portions being bent and the closed end passed between the free ends, said parts being crimped outwardly below such crossing point whereby to form an approximately diamond-shaped recess adapted to receive a clothes line and to clamp the same therein, said portions being outwardly inclined in opposite directions adjacent their lower ends and terminating in outwardly curved ends, whereby to provide a throat leading to said recess to facilitate the placing of the peg on the clothes line and its removal therefrom.

1,478,531. GAS-HEATED-SADIRON CONNECTION. OLIVER W. SABOLD, Boyertown, Pa., assignor to Colebrookdale Iron Company, Pottstown, Pa., a Corporation of Pennsylvania. Filed Aug. 11, 1921. Serial No. 491,325. 2 Claims. (Cl. 285—171.)



1. In a gas heated said iron, a tube, a slidable gas discharging pipe therein, a collar on the interior of said tube having in its wall a longitudinally extending passage, a laterally projecting stud on the exterior of said pipe adapted to be moved entirely through said passage, the forward end of said collar having shoulders between which said passage is continued, and a washer on said pipe within the tube, the pipe having a shoulder against which said washer is spring pressed, said pipe being rotatably mounted and said stud engageable behind one or the other of the shoulders of said collar.

1,478,532. APPARATUS FOR TESTING TIRES. FRANK SCHAFER, Barberton, Ohio. Filed June 13, 1919. Serial No. 304,071. 7 Claims. (Cl. 73—51.)



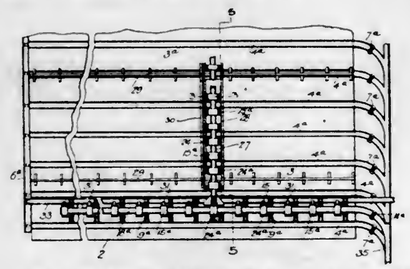
1. A framework adapted to surround an automobile, means for flexibly supporting an automobile therebetween, roadway wheels upon which rest the tires, and means for changing the center distance of the roadway wheels to accommodate automobiles of various lengths of wheel base.

1,478,533. TROUSERS STRETCHER. HANS SCHÄFER, Sulzheim, Germany. Filed Jan. 22, 1921. Serial No. 439,308. 3 Claims. (Cl. 223—19.)



1. An improved trousers stretcher comprising in combination with two stretching bars a distance piece composed of two parts connecting the lower ends of said stretching bars, two blade springs fixed with the upper ends to the inner surface of one of the stretching bars, a sliding piece guided upon the inner surface of the other stretching bar, the other ends of said blade springs being fixed upon said sliding piece, a push rod detachably fixed to the lower end of one of said blade springs and having a notch in one of its sides, and an eye fixed to the lower end of one of said stretching bars designed to guide said push rod and to engage with one of the notches.

1,478,534. SUGAR-BEET STORAGE. HENRY G. SCHWARZ, Denver, Colo. Filed June 18, 1919. Serial No. 305,135. 11 Claims. (Cl. 214—1.)

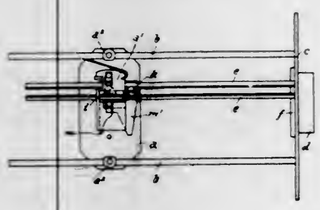


1. In a beet-storing system, the combination with a storage-surface having means for the discharge of beets by flotation, a flume above the surface, having outlets for beets and water, strainers for separating the water from the beets passing through the outlets, a conduit receiving the water passing through the strainers, and means for conducting the water discharged from the conduit, to the storage-surface for the removal of beets stored thereon, by flotation.

1,478,535. FURNITURE LOCK. ADAM SEITZ, Furth, Germany, assignor to G. Zimmermann, Zirndorf, near Nuremberg, Germany, a Firm. Filed Apr. 29, 1921. Serial No. 465,610. 1 Claim. (Cl. 20—16.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

A furniture lock, comprising, in combination: a bolt plate and a bolt therein; bars extending forth from said plate and from said bolt; a lock-plate adapted to be displaced along said bolt plate bars, and means for connecting these bars with said plate; a lock-mechanism

comprising key-operated locking members secured to the lock plate and having said bolt bars pass through it;



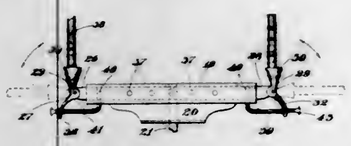
and means to connect these bars with those lock members that are acted on by the beard of the key pertaining to the said lock.

1,478,536. DEVICE FOR COUNTING MESH OR GRIDS. JULIEN GASTON SERVAIS, Paris, France. Filed Jan. 23, 1920. Serial No. 353,518. 3 Claims, (Cl. 88—14.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A method of counting filaments or elements of a net work or grid by arranging in a parallel plane a lamina having ruled on it a plurality of non-parallel lines, disposed at equa angles to one another and inclined to an axis of symmetry to produce dark spaced spots with a rectilinear meshwork.

1,478,537. EXTENSION SLEIGH BOLSTER. DAVID C. P. SHELBY, Arnaud, Manitoba, Canada. Filed Dec. 28, 1921. Serial No. 525,513. 2 Claims. (Cl. 280—144.)



1. A bolster having hollow end portions, and bars movably mounted therein for endwise adjustment, means for holding said bars in adjusted position, keepers pivotally mounted on said bars, and means cooperating with said bars, and keepers for holding the latter in upright position, said means passing through openings in the keepers and having lugs cooperating with said keepers.

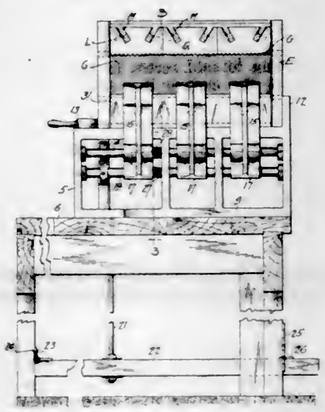
1,478,538. DECOY STICKUP. ALBERT H. SWEENEY, Fresno, Calif. Filed Mar. 14, 1923. Serial No. 624,903. 5 Claims. (Cl. 43—3.)

1. A decoy stickup comprising a substantially U-shaped wing holding member formed of flexible material, adapted to pass beneath the body of a bird transversely thereof having its free ends terminating in sharpened inturned points to support the wings thereof in their normal position; and a head holding member extending forwardly from said wing holding member around the breast of said



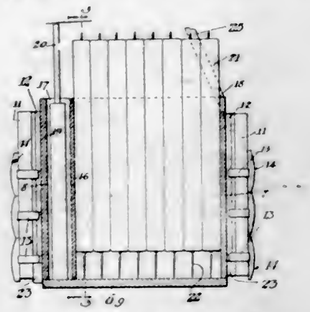
bird and terminating in a hook member adapted to engage the chin of said bird to hold the head thereof in its normal position.

1,478,539. KNIFE-SETTING APPLIANCE. EUGENE VOSBURGH, Longmont, Colo. Filed June 18, 1921. Serial No. 478,585. 12 Claims. (Cl. 29—84.)



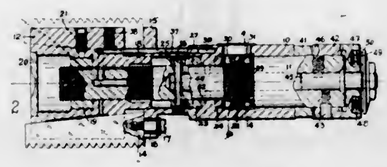
9. In an appliance for setting knives in a box having a discharge slot along the cutting edges thereof, a support for the box, an element for the lateral adjustment of the knives in the box, and means co-operating with said element to gage the width of the discharge slot.

1,478,540. RAILWAY-SIGNALING-EQUIPMENT RECEPTACLE. LLOYD S. ATKINSON, Las Vegas, Nev. Filed May 14, 1923. Serial No. 638,998. 3 Claims. (Cl. 246—488.)



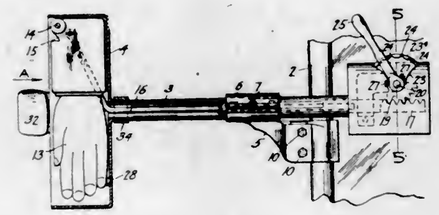
2. A device of the class described, comprising a rectangular receptacle open at its upper end and provided with a partition forming separate chambers, and a vertically disposed torpedo supporting bar mounted on the outer surface of each end wall, each of said bars being provided with longitudinally extending grooves for the reception of the torpedo rail securing means.

1,478,541. ADJUSTABLE GAUGE. JOHN BATH, Worcester, Mass., assignor to John Bath & Co., Inc., Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 20, 1920. Serial No. 404,720. 6 Claims. (Cl. 33—178.)



1. An adjustable gauge comprising a body, a threaded shaft mounted for rotation only in said body, a member threaded thereon and provided with surfaces inclined to the axis of said shaft, a plurality of gauge bars having portions contacting with said inclined surfaces slidably mounted in said member and movable simultaneously radially thereby, and means to hold said bars in fixed longitudinal relation to said body, the gauging surfaces of said bars being formed as sections of a threaded cylinder.

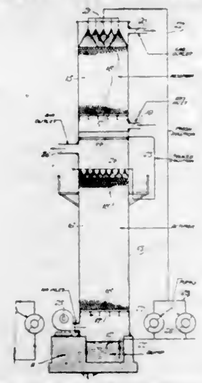
1,478,542. DIRECTION INDICATOR FOR AUTOMOBILES. LOUIS A. BEAN, Denver, Colo. Filed June 18, 1921. Serial No. 478,683. 2 Claims. (Cl. 116—54.)



1. A direction indicator for automobiles comprising a hollow arm, a support at an end thereof, a pivoted signal blade on the support, a longitudinally sliding rod in the arm, having a bent arm in pivotal connection with the blade, and a rotary operating element at the opposite end of the arm, in operative connection with the rod.

1,478,543. GAS-PURIFYING APPARATUS. EUGENE H. BIRD, Hillside, N. J., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 8, 1921. Serial No. 520,839. 6 Claims. (Cl. 23—10.)

1. Gas purifying apparatus comprising: a sump; a single enclosing tower for both the absorption and actification stages, as herein specified, mounted over the sump and divided into an upper absorber chamber and a lower actifier chamber, the absorber chamber having a gas inlet and a gas outlet located respectively at its lower and upper ends; means for effecting a forced draft of air upwardly through the actifier chamber; a flow pipe connecting the bottom of the absorber chamber with the top of the actifier chamber, whereby the gas purifying solution fouled in the absorber chamber is discharged by gravity directly into the top of the actifier chamber, and means



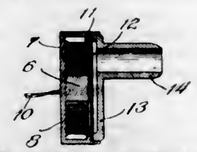
for pumping the rejuvenated solution discharged into the sump from the actifier chamber directly back to the top of the absorber chamber; substantially as specified.

1,478,544. SHINGLE STRIP. REGINALD W. BIRD, Framingham, Mass., assignor to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 10, 1919. Serial No. 343,863. 3 Claims. (Cl. 91—67.9.)



1. A method of making shingle strips, adapted to be laid in overlapping relation in simulation of spaced individual shingles, consisting in partially embedding in the entire face of an asphalt-coated waterproofed fibrous sheet a surface layer of colored crushed slate, then by pressure completely embedding portions of the slate in parallel spaced stripes into said asphaltic coating in contrast to the remainder of the slate-surfaced sheet, and then cutting said sheet transversely of said stripes into strips each having a plurality of such stripes perpendicular to its greatest diameter.

1,478,545. AUDIPHONE. JOSEPH W. BISHOP, Muskegon, Mich. Filed Aug. 7, 1920. Serial No. 402,005. 6 Claims. (Cl. 179—107.)

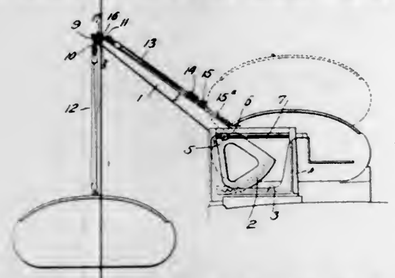


6. A receiver for audiphones comprising a flat cylindrical casing adapted to rest within the external ear, an electro-magnetic core disposed in said casing, a bobbin on said core, electrical conductors passing through the wall of said casing and engaging the terminals of said bobbin, a diaphragm in said casing, and a tube formed on the outer face of one end, of said casing, offset from the center thereof, and communicating with the interior of said casing.

1,478,546. LOWERING AND RAISING APPARATUS FOR SHIPS' BOATS. HARRY W. BROADY, Bayside, N. Y., assignor to American Balsa Company, Inc., a Corporation of New York. Filed Jan. 22, 1920. Serial No. 353,207. 6 Claims. (Cl. 9—22.)

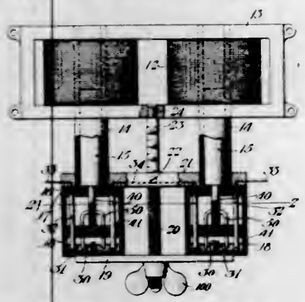
1. In apparatus for lowering and raising ships' boats, the combination with a davit arm, of a falls-attaching

device having a connection with the outer end of said davit arm; and also having elements spaced from each other for attaching double falls; double falls attached to said elements, said device being movable to swing each



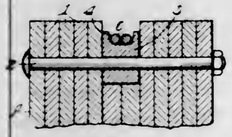
of said falls-attaching elements alternately into a plane substantially in vertical alignment with the said davit-connection while the other falls-attaching element is moved away from said plane.

1,478,547. RELAY. VERNON BROWN and JOSEPH H. PENGILLY, Los Angeles, Calif. Filed July 12, 1920. Serial No. 395,612. 3 Claims. (Cl. 200—97.)



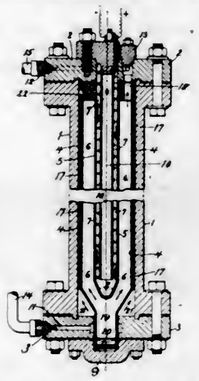
1. A contact making device comprising: a head; a dash pot removably secured to said head; electrically conducting liquid in the lower end of said dash pot; an insulating partition dividing said body of liquid into two pools insulated from each other; two conducting members each secured in said head, one of said members making electrical contact with one of said pools, and the other of said members making electrical contact with the other of said pools; a conducting bridging member normally having one end making electrical contact with one of said pools, the other end simultaneously making electrical contact with the other of said pools; and means for moving said bridging member upwardly to break contact with said pools.

1,478,548. BAND WHEEL FOR OIL-WELL-DRILLING APPARATUS. JAMES ELMER CAMPSEY, Cameron, W. Va. Filed Apr. 28, 1923. Serial No. 635,233. 8 Claims. (Cl. 64—17.)



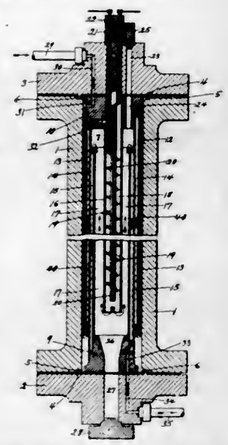
1. In deep-well drilling apparatus, a band wheel comprising a laminated wood peripheral portion, and a metal annulus embedded in said portion below the peripheral surface of the latter, said annulus having therein a channel for the reception of a wire driving cable.

1,478,549. CATALYTIC APPARATUS FOR THE SYNTHESIS OF AMMONIA. LUIGI CASALE, Rome, Italy, assignor, by direct and mesne assignments, to Casale Ammonia Company, Lugano, Switzerland. Filed Mar. 31, 1921. Serial No. 457,211. 13 Claims. (Cl. 23—21.)



1. In an apparatus for the synthesis of ammonia, a pressure sustaining tube, closures for said tube, means in one closure for supplying the catalytic agent to said tube and means in the other closure for withdrawing the catalytic agent from said tube.

1,478,550. CATALYTIC APPARATUS FOR THE SYNTHESIS OF AMMONIA. LUIGI CASALE, Rome, Italy, assignor, by direct and mesne assignments, to Casale Ammonia Company, Lugano, Switzerland. Filed June 26, 1922. Serial No. 571,036. 9 Claims. (Cl. 23—21.)

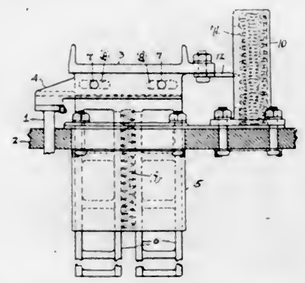


1. In an apparatus for the synthesis of ammonia, a pressure sustaining tube having a chamber therein, a second tube mounted in said chamber, plugs closing the ends of said second tube and a tube mounted on each plug independently of the other plug.

1,478,551. ACCELERATOR FOR AUTOMOBILES. GEORGE F. CASTLE, East Cleveland, Ohio, assignor of one-half to Lewis D. Castle, East Cleveland, Ohio. Filed June 2, 1922. Serial No. 565,387. 15 Claims. (Cl. 74—81.)

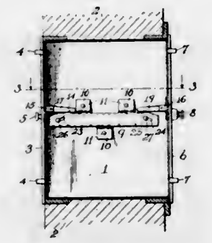
1. In a control device of the character described, the combination of a movable foot-rest, and independently

operable means adapted positively to retain said foot-rest against movement in either direction from a select-



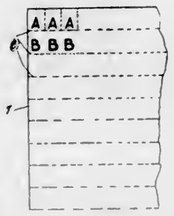
ed position, said foot-rest being normally movable without any interference from said means.

1,478,552. PACKAGE-RECEIVER LOCK. ALFRED W. CHAPMAN, Cleveland, Ohio, assignor to The Donley Brothers Company, Cleveland, Ohio, a Corporation. Filed Apr. 12, 1922. Serial No. 552,009. 8 Claims. (Cl. 232—41.)



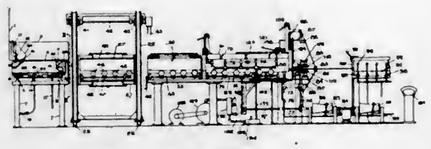
1. In a receptacle having inside and outside doors, an automatically engaging lock from the outside door; and inflexible means adapted to be slidably displaced by an opening movement of the inside door to release the lock of the outside door, and by the opening movement of the outside door to disengage said means from said lock.

1,478,553. METHOD OF FORMING INTERCHANGEABLE SIGN LETTERS. WARREN L. CLARK, New York, N. Y. Filed Feb. 27, 1922. Serial No. 539,593. 2 Claims. (Cl. 153—2.)



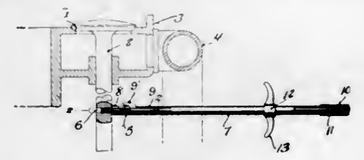
1. An improved method of forming interchangeable sign letters consisting in severing a row of letters from a blank, thus producing a strip, then folding one edge of said strip and finally dividing the strip including its folded edge transversely.

1,478,554. GLASS MANUFACTURE. ROBERT M. CORL, Maumee, Ohio, assignor, by mesne assignments, to Erie Glass Company, Toledo, Ohio, a Corporation of Delaware. Filed Apr. 21, 1917. Serial No. 163,569. 10 Claims. (Cl. 49—3.)



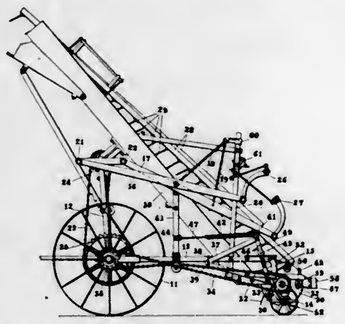
5. In combination, means for advancing a set mass of glass, means for applying a converting heat to the forward end portion of the mass to flow therefrom a sheet of lesser thickness than the mass, means for carrying away the sheet as it flows from the mass, means acted on by the sheet to regulate the heating means to maintain a substantially uniform flow of glass from the mass, and means for supplying glass to the rear end of the mass to maintain its continuity and the continuity of flow of glass therefrom.

1,478,555. VALVE-PIN TOOL. KURT DAHM, Milwaukee, Wis. Filed Feb. 9, 1923. Serial No. 617,970. 4 Claims. (Cl. 29—86.1.)



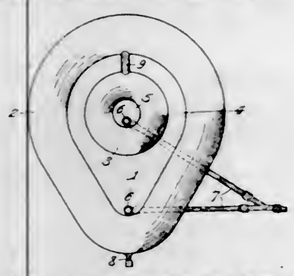
1. A tool of the character described comprising a hollow sleeve adapted to receive a pin in one end, a plunger for ejecting the pin, and means carried by the plunger for centering the pin with relation to a valve stem.

1,478,556. HAY LOADER. JOSEPH DAIN, deceased, by Joseph Dain, jr., administrator, Moline, Ill, assignor to The Dain Manufacturing Company of Iowa, Ottumwa, Iowa, a Corporation of Iowa. Filed Oct. 29, 1919. Serial No. 334,340. 26 Claims. (Cl. 56—363.)



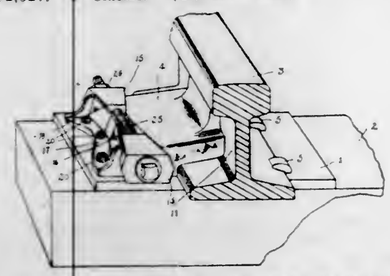
1. A hay loader comprising an inclined elevator frame, hay elevating means operating thereover, means for adjusting said elevating means toward or away from said elevator frame, a rotary rake adjacent to the lower end of said elevator frame for delivering hay thereto, and separate driving connections for rotating said rake and actuating said hay elevating means.

1,478,557. HOSPITAL PAD OR CUSHION. MAE DORRANCE, Smithfield, Ohio. Filed June 8, 1921. Serial No. 475,899. 2 Claims. (Cl. 128—292.)



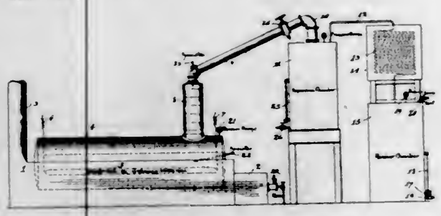
1. A rubber pad comprising a flat base, a plurality of substantially concentric inflatable body-cushioning rings superimposed on said base and integral with the latter, said base being relatively inelastic, a radial communicating passageway between said rings, and drainage nipples fixed in said base in the spaces enclosed by said rings.

1,478,558. ADJUSTABLE RAIL BRACE. JOHN C. EDWARDS, Utica, N. Y. Filed Sept. 23, 1921. Serial No. 502,627. 3 Claims. (Cl. 238—292.)



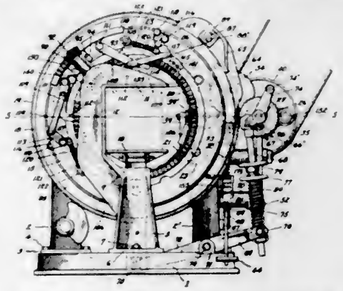
1. In an adjustable brace for rails, wedge shaped parts bolted together for holding a rail in place, means located adjacent said rail and having re-entrant angles formed therein, and the sides of said wedges being formed with angularly disposed surfaces to co-operate with said re-entrant angles of said means, whereby to hold the said means and wedges in given relation to each other.

1,478,559. PROCESS OF TREATING HYDROCARBONS. GUSTAV EGLOFF, New York, N. Y. Filed Sept. 17, 1917. Serial No. 191,802. 3 Claims. (Cl. 196—25.)



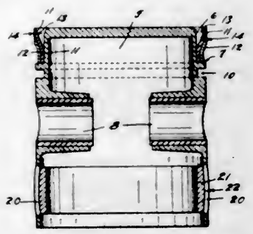
2. A process of treating hydrocarbons to convert heavy into lighter hydrocarbons consisting in externally heating the oil maintained in a substantial body to a distilling temperature, continuing the conversion by internally heating the oil body by an electrical resistance unit, confining a percentage of the generated vapors above the oil body for maintaining a regulated vapor pressure in excess of twenty pounds to the square inch upon the oil during treatment.

1,478,560. BUNDLE BINDING AND TYING MACHINE. CHARLES E. EVANS, Seattle, Wash. Filed Sept. 18, 1919. Serial No. 324,275. 35 Claims. (Cl. 100—31.)



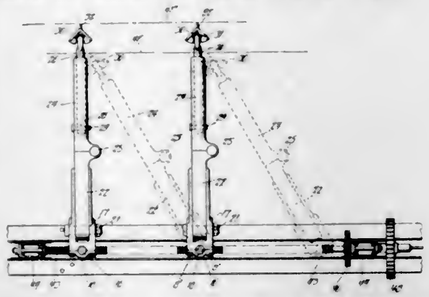
1. In a bundle tying machine, bundle holding means, a rotatively mounted ring surrounding the bundle holding means and carrying a coil of binding wire to also surround the bundle.

1,478,561. PISTON AND PISTON RING. MICHAEL FAESSEL, Seattle, Wash., assignor, by direct and mesne assignments, to Loxon Piston and Ring Company, Seattle, Wash., a Corporation of Washington. Filed Mar. 2, 1921. Serial No. 448,961. 7 Claims. (Cl. 74—108.)



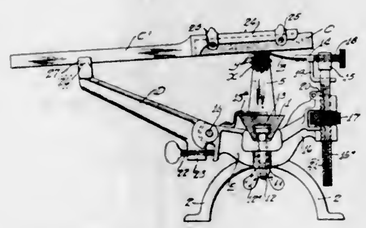
1. A piston having a cylindrical reduced end portion, a piston ring composed of two solid rings having cylindrical portions adapted to interfit in concentric relation, and flaring end portions adapted to engage the cylinder walls, said ring being shrunk on the reduced end of the piston for permanently securing it thereto.

1,478,562. CAR-DOOR OPENER. JESSE FRANKLIN FISK, Chesterton, Ind., assignor to Armour Grain Co., Chicago, Ill., a Corporation. Filed Apr. 11, 1921. Serial No. 460,463. 20 Claims. (Cl. 254—84.)



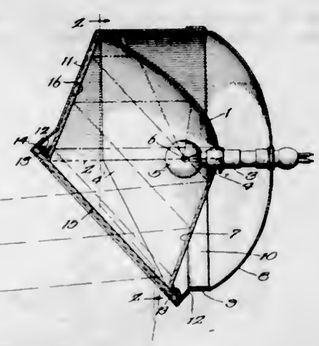
1. The combination with a car having a grain door of a device comprising a support, and an arm mounted to swing horizontally relative to said support, said arm being of greater length than the distance between said door and said support and being normally at an oblique angle to said door, said arm being swingable to a substantially right angular position relatively to said door upon relative longitudinal movement of said car and the end of said arm adjacent said support ,to force said door open.

1,478,563. APPARATUS FOR SHARPENING REAMERS. BENO J. GUNDLACH, Belleville, Ill. Filed Oct. 20, 1922. Serial No. 595,812. 6 Claims. (Cl. 51—59.)



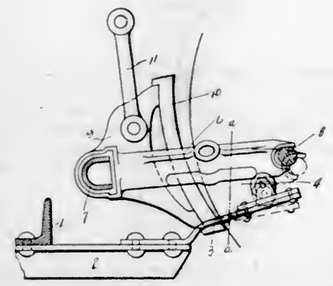
1. A honing apparatus for reamers consisting of a frame provided with a base piece, means for maintaining a reamer in a substantially horizontal position, a member combined with said base piece, a vertically-adjustable honing device support carried by said member and arranged at one side of the reamer, and an adjustable reamer holding device on said member arranged in opposed relation to said honing device support.

1,478,564. REFLECTING HEADLIGHT. REVELEY A. HALLETT, Harvey, Ill. Filed Jan. 3, 1922. Serial No. 526,489. 1 Claim. (Cl. 240—41.)



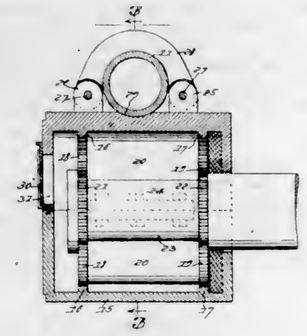
The combination with a reflector having a parabolic reflecting surface; of a lamp having a lighting center positioned to direct rays of light upon said reflecting surface; a plane reflector in front of the lighting center and sloping downwardly and forwardly and having its lower and forward edge adjacent the parabolic axis; and another plane reflector back of the lighting center and also sloping downwardly and forwardly and having its upper and rear edge also adjacent the parabolic axis, the plane reflector that is in front of the lighting center being positioned to receive rays reflected from the parabolic reflector and the other plane reflector being positioned to receive these rays reflected from the first plane reflector and to reflect the same forwardly.

1,478,565. THIRD AND FOURTH POINT SUPPORT FOR BRAKE BEAMS. ARTHUR W. HAWKINS, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 14, 1922. Serial No. 536,541. 4 Claims. (Cl. 188—213.)



3. In a brake beam support, a safety bar, a yielding member attached thereto, a saddle member on the end of said yielding member, and a brake beam having a part engaging said saddle member.

1,478,566. RAILWAY-CAR JOURNAL BEARING. DORRIS F. HENDRICKS, Russell, Ky. Filed Mar. 6, 1923. Serial No. 623,168. 3 Claims. (Cl. 105—206.)

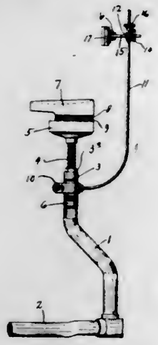


1. In a truck for railway cars, a side frame having an extension with a rounded outer surface, a saddle thereon conforming to the contour of the said outer surface and oscillatable thereon, and a journal box under the extension of the frame to which the saddle is connected.

1,478,567. PIPE-ORGAN STOOL. EARL RALPH HOWARD, Dubuque, Iowa. Filed May 25, 1921. Serial No. 472,529. 2 Claims. (Cl. 155—95.)

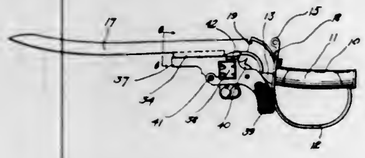
1. In a device of the class described, a suitable stand; a seat member revolubly mounted on said stand; a pair

of elongated seat sections pivotally connected with said seat member near their rear ends, and capable of an



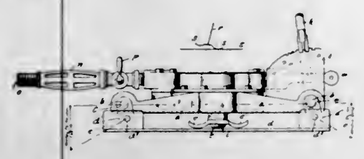
independent swinging movement thereon; and ball bearing mechanism interposed between said sections and said seat member.

1,478,568. COMBINED SWORD AND REVOLVER. STANLEY KAPERZENSKI, Detroit, Mich. Filed Mar. 19, 1923. Serial No. 626,181. 4 Claims. (Cl. 42—53.)



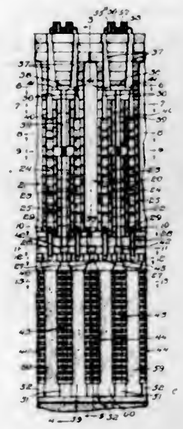
1. A device of the class described comprising a blade, a handle, a socket member on the handle, an arcuate extension on the rear end of the blade, a tongue adapted to seat in the socket member, arcuate plate clamping means, and a thumb screw cooperating with the handle and arcuate clamping means to hold the blade in place.

1,478,569. PORTABLE PLANER. GEORGE L. KRABER, Portland, Oreg., assignor, by mesne assignments, to The Cleveland Industrial Development Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 7, 1918. Serial No. 257,254. 4 Claims. (Cl. 144—119.)



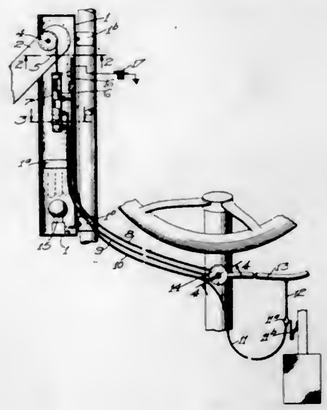
1. In a tool of the character described, the combination of a body, a motor carried thereby, rotating on a vertical axis, the shaft of said motor extending below the base of the body, a knife on said extending shaft end, a sole-plate, and means connecting the ends of the sole-plate to said body the base of the latter, adapted to position the sole-plate at a slight angle to said base, thereby causing a relative incline of the axis of rotation of said shaft, for the purpose specified; said sole-plate having a part cut away under said motor.

1,478,570. COKE OVEN. THOMAS G. KUS, Chicago, Ill., assignor, by mesne assignments, to Chicago Trust Company, trustee, Chicago, Ill., a Corporation. Filed Mar. 8, 1920. Serial No. 364,109. 12 Claims. (Cl. 202—9.)



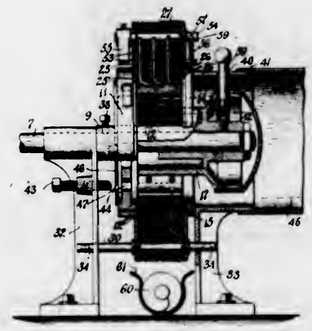
12. A coke oven heating wall, comprising a series of blocks laid up in courses, the blocks of each course breaking joints with the blocks of the courses above and below it, the adjoining blocks being suitably formed for the provision of a series of inter-connected passages extending through the wall in zigzag fashion between two of its edges, the upper and lower faces of the blocks being tapered or beveled for the presentation of tapered or beveled faces to the gases flowing in either direction through the wall, substantially as described.

1,478,571. VEHICLE DIRECTION INDICATOR. HENDRICK W. LUNDQUIST, San Diego, Calif. Filed Sept. 2, 1920. Serial No. 407,779. 5 Claims. (Cl. 116—39.)



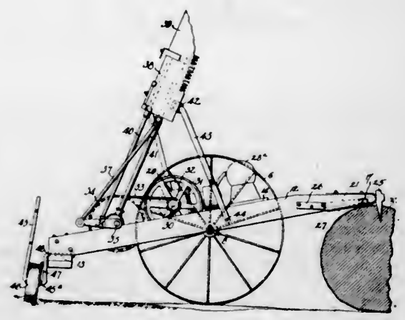
1. A vehicle direction indicator including, a long, perpendicularly disposed casing, provided with a long, longitudinal opening in one side, an arm member pivoted therein near the upper end thereof and its free end adapted to rest in said casing when released, a cable in connection with said arm member and a continuous, graduated, three-section control means positioned in said casing for moving said cable to varying positions.

1,478,572. GINNING AND CLEANING MACHINE. WILLIAM D. MCCOY, Brooklyn, N. Y., assignor to McCoy Cotton Machinery Corporation, a Corporation of New York. Filed Dec. 29, 1915. Serial No. 69,142. Renewed Mar. 22, 1921. Serial No. 454,417. 75 Claims. (Cl. 19—50.)



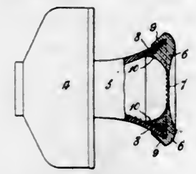
72. Ginning apparatus comprising a cylindrical ginning member composed of a multiplicity of small rods, smaller in diameter than the normal length of cotton fiber and with spaces between said rods smaller than the usual cotton seed so that fibers attached to a seed may pass through a plurality of spaces and means at one side of said member for engaging the fiber firmly and means on the opposite side of said member for engaging the seed whereby the seed and fiber may be pulled apart when said previously mentioned devices are moved with relation to each other, and means for creating such relative motion.

1,478,573. DRAG SAW. RALPH HOLMES MCDONALD, Scio, Oreg. Filed Dec. 23, 1920. Serial No. 432,721. 4 Claims. (Cl. 143—68.)



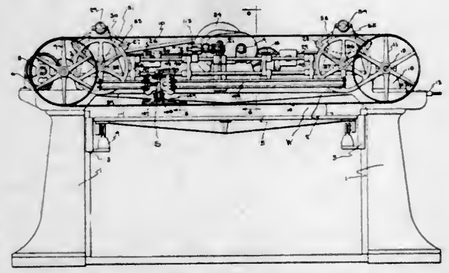
1. In a drag saw, the combination of a V frame comprising a pair of frame beams, a skid shoe mounted upon each of said frame beams and extending laterally therefrom, a pair of links journaled upon said frame beams and disposed adjacent said skid shoes so that said links may be rested upon said skid shoes, and dogs carried by said links for the purpose of engaging a log to be sawed.

1,478,574. ACOUSTIC INSTRUMENT. ALEXANDER MARR, Manchester, England. Filed Oct. 4, 1921. Serial No. 505,334. 7 Claims. (Cl. 179—187.)



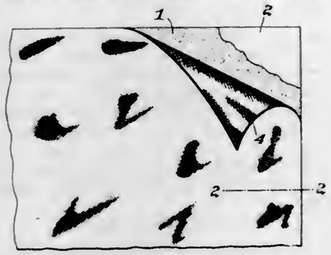
5. A concentrator cap for mouthpieces of acoustic instruments, said cap having an elastic flange stretched over the flared end of the mouthpiece and having a seong flange extending into the mouthpiece and terminating a short distance from the flared end, said flange having a concave inner face.

1,478,575. ABRADING OR POLISHING MACHINE. CARL LAWRENCE MATTISON, Rockford, Ill., assignor to Mattison Machine Works, Rockford, Ill., a Corporation of Illinois. Filed Sept. 23, 1921. Serial No. 502,612. 21 Claims. (Cl. 51—141.)



1. A machine of the class described having in combination, a traveling member, a shoe structure comprising a carriage part and a shoe part, a rail support for receiving the carriage part, means operable for connecting said shoe structure with said traveling member to travel therewith, and for disconnecting said shoe structure from said traveling member, said means being operable also for vertically shifting said shoe part independently of said carriage part.

1,478,576. PATCH AND METHOD OF MAKING SAME. HAROLD A. MORTON and MARION M. HARRISON, Akron, Ohio, assignors to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 16, 1921. Serial No. 515,620. 6 Claims. (Cl. 18—53.)



1. The herein described method of forming a sheet or slab of rubber material which comprises superimposing upon each other a plurality of layers of rubber compound, one of said layers comprising a rubber com-

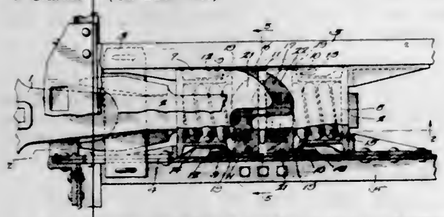
pound containing a non-migratory accelerator, and another layer comprising a rubber compound containing sulphur, and thereafter subjecting the composite sheet to a temperature sufficient to cause the sulphur to migrate and coact with the non-migratory accelerator.

1,478,577. SELF-FILLING FOUNTAIN PEN. NIELS NIELSON, Los Angeles, Calif. Filed May 23, 1922. Serial No. 563,146. 6 Claims. (Cl. 120—47.)



1. In a self-filling fountain pen, the combination of a barrel, an ink feed at one end of the barrel having an ink duct, a cylinder, a plunger in the cylinder, means to operate the plunger, means forming a valve chamber communicating with the cylinder and provided with ports, an inwardly opening valve to control one of the ports, an outwardly opening valve to control the other port, and a tube communicating with the last port when its valve is open, said tube also communicating with the atmosphere.

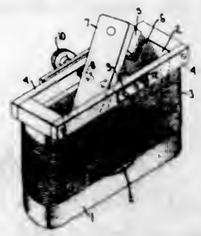
1,478,578. DRAFT GEAR. HERMAN C. PRIEBE, Blue Island, Ill. Filed Oct. 10, 1921. Serial No. 506,754. 9 Claims. (Cl. 213—30.)



1. A draft gear including a coupler yoke; longitudinal sills between which said yoke is disposed; followers assembled with the yoke; motion resisting mechanism interposed between and engaging the followers; and straps extending longitudinally of the gear for assembling the followers independently of the sills, said straps having follower engaging formations which limit the extent to which the followers may be separated and which permit relative movement of the followers longitudinally of the sills.

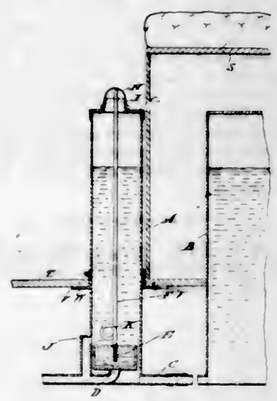
1,478,579. COUPLER FOR RADIORECEPTION. ERNEST M. REYNOLDS, Cleveland, Ohio. Filed May 15, 1922. Serial No. 560,930. 12 Claims. (Cl. 171—119.)

1. A variable inductance apparatus for radio receiving sets comprising a rectangular coil which forms the primary winding and a helical coil which forms the secondary, said helical coil being curved longitudinally



to arcuate form and mounted for rotation about an axis which is perpendicular to the axis of the first named coil and concentric to the curvature of the helix.

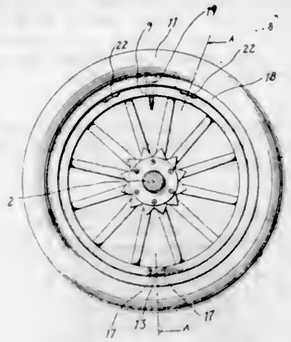
1,478,580. COMBINED HIGH AND LOW LEVEL VALVE AND DEPTH INDICATOR. LOUIS RIESKE, Mayfield, Ohio, assignor, by direct and mesne assignments, to Sadie M. Moorhouse, Cleveland, Ohio. Filed May 25, 1921. Serial No. 472,615. 4 Claims. (Cl. 158—46.5.)

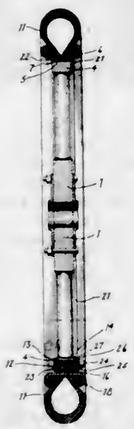


4. In a device for the purpose set forth, the combination with a main fuel oil container, and a vertical cylinder supplied therefrom and closed at the bottom, the lower ends of said container and cylinder being in communication with each other, said cylinder being provided with a central outlet opening, and with an outlet opening in its side wall above said central opening, a valve for controlling said central opening, a cover for said cylinder, said cover provided with a central opening, a valve stem for said valve, guided in said central opening, and a vertically adjustable cover for said opening, said cover serving as a retaining means for said valve.

1,478,581. DETACHABLE RIM. CHARLES F. RUBSAM, Brooklyn, N. Y. Filed Nov. 30, 1917, Serial No. 204,655. Renewed Aug. 14, 1922. Serial No. 581,837. 8 Claims. (Cl. 301—11.)

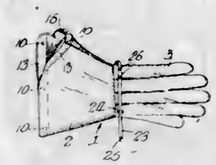
1. In combination, a wheel body, a detachable rim for said wheel body adapted to have a substantially tight fit with the same substantially throughout the entire circumferential extents of said rim and wheel body when said rim is in position on said wheel body, interengaging means on the rim and wheel body providing a pivotal point about which the rim is swung into position on the





wheel body, and means applied to another portion of said rim for swinging the same into position on said wheel body.

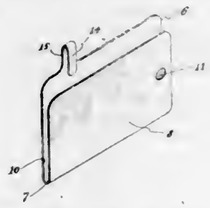
1,478,582. GLOVE AND MITTEN. HARRY SCHALLMAN, Chicago, Ill. Filed Nov. 30, 1921. Serial No. 518,774. 7 Claims. (Cl. 2—9.)



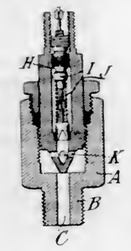
1. A hand covering, comprising an outside portion made of wear resisting material, and a removable lining therefor made of cold resisting material, both outside portion and lining being made of a shape and size to completely cover the hand of the wearer and fit one within the other when the two are worn together, and co-operating fastening means carried by the outside portion and lining, respectively, along the outer edges thereof for detachably connecting the two together when one is within the other.

1,478,583. CUFF PROTECTOR. JACKSON SCHLESINGER, New York, N. Y. Filed Oct. 10, 1922. Serial No. 593,512. 1 Claim. (Cl.2—54.)

A cuff protector comprising a rectangular celluloid member folded over on itself intermediate its length providing an inner and outer lap, said laps being adapted to receive a shirt cuff therebetween, an extension on one end of the outer lap formed into a hook and adapted to engage a turnover cuff, the inner lap at the end opposite to the hook having an eyelet therein adapted to engage the cuff button.

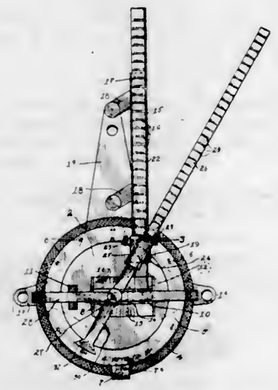


1,478,584. INFLATING DEVICE. MAXIMILIAN CHARLES SCHWEINERT, West Hoboken, N. J. Filed Feb. 4, 1918. Serial No. 215,269. 4 Claims. (Cl. 152—12.)



1. The combination of a casing having different sized passages extending therethrough, of a housing relatively adjustable within the casing to open and close communication between said passages and having an opening in communication with the larger passage, valve means within the housing controlling the passage of fluids into the casing, and means for limiting the outward movement of the housing with respect to the casing, said means comprising a collar adapted to be threaded into the casing over the housing.

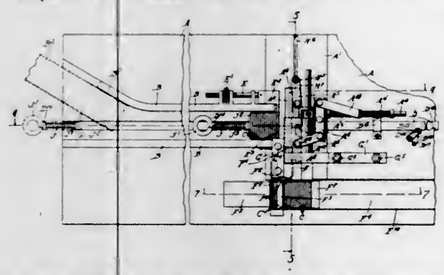
1,478,585. ENEMY BEARING AND RANGE INDICATOR. JACOB SIMPSON, New York, N. Y. Filed Oct. 27, 1919. Serial No. 333,719. 12 Claims. (Cl. 33—98.)



1. A device of the character described, including a base, a rotatable dial thereon, means for setting the dial in any determined position, a scale movable in a direc-

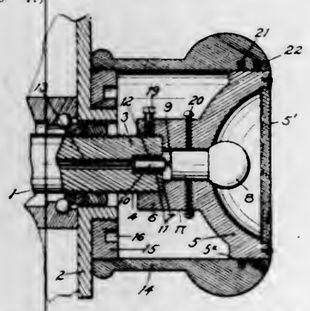
tion always parallel to itself and having a radially adjustable attachment with the dial, a second scale pivoted to turn upon an axis concentric with the dial and having an adjustable connection with the first mentioned scale, and an extension carried by the first mentioned scale and playing over the dial.

1,478,586. ADDRESSING MACHINE. RUPERT B. SMART, Chicago, Ill. Filed May 21, 1921. Serial No. 471,495. 10 Claims. (Cl. 101—63.)



1. The combination with an addressing machine having a guide way adapted to receive type bars and means for progressively moving said bars forward in a step by step process of means for separating out a predetermined variable number of type bars.

1,478,587. LATERAL DIRIGIBLE LIGHT FOR VEHICLES. CARLTON E. STONER, Long Beach, Calif. Filed May 10, 1921. Serial No. 468,389. 8 Claims. (Cl. 240—7.)

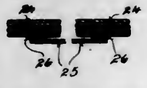


1. In combination with the axle of a vehicle, a lamp mounted on the end of said axle and a hub cap revoluble about said lamp.

1,478,588. EXPLOSIVE. ERNEST M. SYMMES, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Filed June 26, 1922. Serial No. 571,048. 3 Claims. (Cl. 52—13.)

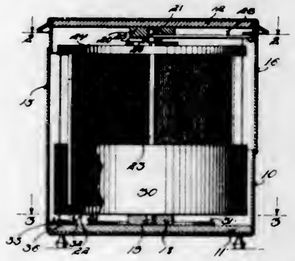
1. An explosive consisting of a stabilized mixture of trinitroglycerine and nitrated mannose.

1,478,589. REVERSIBLE COLLAR. FRANK TAMBORELLO, Milwaukee, Wis. Filed Oct. 12, 1922. Serial No. 594,002. 1 Claim. (Cl. 2—69.)



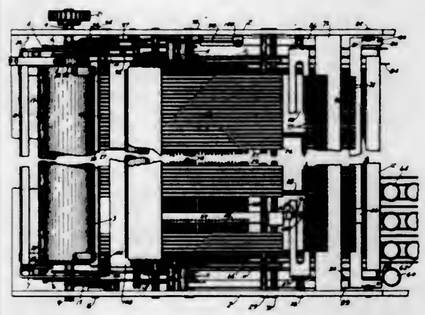
The combination of a neck band having an opening adjacent the upper part of each of its ends, a second neck band having an opening adjacent the upper part of each of its ends, a folding member secured to said neck bands and extending downwardly between said neck bands and preventing the holes of said neck bands from communicating, a strap, and a hook secured to each end of said strap adapted to cooperate with an outwardly disposed opening for securing the upper part of the ends of said neck bands together.

1,478,590. DELIVERY CABINET. FRANK TAMBORELLO, Milwaukee, Wis. Filed Mar. 23, 1923. Serial No. 627,024. 2 Claims. (Cl. 232—1.)



1. The combination of a cabinet having an opening therein for the delivery of goods and a second opening therein for the removal of goods, a door for closing said first mentioned opening, a door for closing said second opening, a rotor pivoted to rotate in said cabinet, a pivoted lever, a pallet on said lever, a ratchet rigid with said rotor and a link connected at one end to said lever and at the other end to said door, said lever being almost at right angles to said link when said door is in closed position.

1,478,591. TYPEWRITING MACHINE. CHARLES W. WALKER, Stratford, and ARIO C. WALKER, Bridgeport, Conn.; Ario Walker administrator of said Charles W. Walker, deceased. Filed Apr. 8, 1921. Serial No. 459,604. 22 Claims. (Cl. 101—98.)

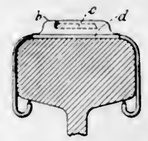


1. A typewriting machine comprising a platen, type, a rigid stop to hold the type in printing position, means to be yieldingly engaged by the type before they are arrested by said rigid stop, and means for securing an impression from the type when they are against the rigid stop.

1,478,592. RAILWAY-TRACK SIGNAL. FREDERIC L. WANKLYN, Montreal, Quebec, Canada. Filed June 2, 1923. Serial No. 643,113. 4 Claims. (Cl. 246—487.)

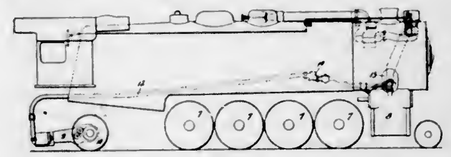
1. The combination with a railway signal torpedo container containing a substance exploded by concussion, of a resilient wire clip for fastening the container to a rail head, such clip consisting of an arch presenting a straight top and straight converging side legs united to the top

by relatively wide curved shoulders and extremities of the legs consisting of semi-circular curves terminating in straight ends with teeth for biting into the surface



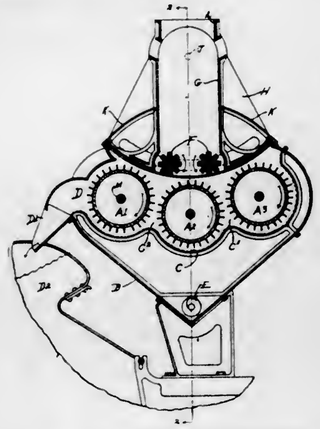
of the underside of the rail head, and means pivotally connecting the straight top portion of the clip to the underside of the container.

1,478,593. LOCOMOTIVE. WILLIAM E. WOODARD, Forest Hills, N. Y. Filed Dec. 26, 1922. Serial No. 608,896. 4 Claims. (Cl. 105—37.)



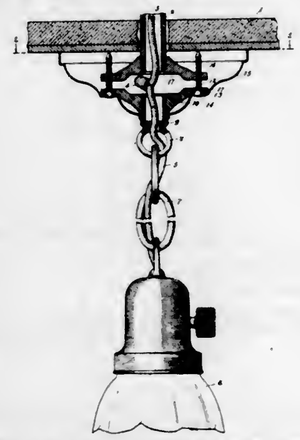
4. The combination with a locomotive appreciably over cylindered for the particular class, of an auxiliary motor and driving mechanism carrying the locomotive over the torque peaks at which slippage of the engine drivers would occur.

1,478,594. CLEANER FEEDER FOR COTTON GINS. BRONSON C. WOODFORD, Dallas, Tex., assignor to The Murray Company, Dallas, Tex., a Corporation of Texas. Filed Mar. 8, 1923. Serial No. 623,792. 3 Claims. (Cl. 19—67.)



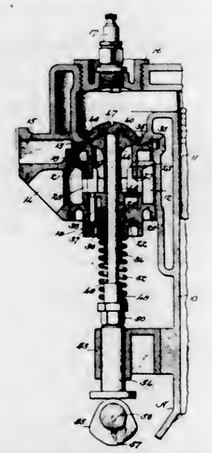
1. In a multi-cylinder cotton cleaner, the combination of a series of beater drums, arranged horizontally with faces parallel with adjacent drums, for cooperative action, within a screened casing; that casing; a movable feed chute, above the drum casing, adjustable to feed cotton at any point along the series of drums, to vary the amount of cleaning action.

1,478,595. FIXTURE SUPPORT. FREDERICK E. WOOLEY, Central Valley, N. Y. Filed Jan. 20, 1922. Serial No. 530,621. 2 Claims. (Cl. 240—85.)



1. A fixture support comprising a yoke member adapted to be secured to a fixture, a second yoke member having a threaded opening adapted to be screwed on to a fixed support, a plurality of screws for adjustably connecting said yoke members together, and a canopy enclosing said yoke members, said canopy being held in place by said screws connecting the said members.

1,478,596. VALVE MECHANISM FOR INTERNAL-COMBUSTION ENGINES. DORSEY F. ASBURY, Washington, D. C. Filed Oct. 9, 1919. Serial No. 329,495. 22 Claims. (Cl. 123—79.)

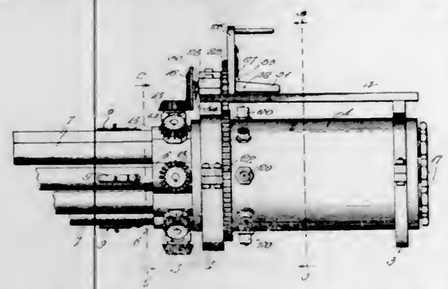


1. In a valve mechanism for internal combustion engines, a spring closed exhaust valve, means acted upon by the exhaust products to impart opening movement to the valve, and a dished impulse receiving surface on the valve acted upon by the escaping exhaust products to also impart opening movement to the valve.

1,478,597. BOMB-PROJECTING GUN. ELWOOD BEBLER, Los Angeles, Calif. Filed Dec. 1, 1922. Serial No. 604,344. 4 Claims. (Cl. 89—6.)

1. A gun comprising a rotatably mounted carrier provided with longitudinally extended bores spaced circumferentially of the carrier, each bore being provided

with a valve controlled fluid inlet, barrels extending from said bores and each provided with means for yieldably retaining a projectile in the barrels, control valves for the rear ends of said barrels each containing an actuating shaft extending externally of the barrel and a gear upon the outer end portion of the shaft, a rack extending circumferentially about said carrier, a tubular bearing shaft extending longitudinally of said carrier, a gear upon said bearing meshing with the teeth of said



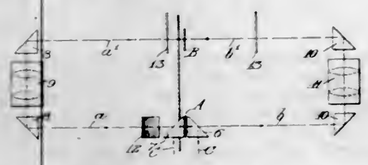
rack for imparting rotary movement to the carrier when the gear is rotated, a shaft slidably mounted in the bearing, a gear carried by said shaft for engagement by the gears of the control means for the valves of said barrels and moving the valves to an open position and returning them to a closed position during rotation of said carrier, and means for moving the shaft longitudinally to move the gear carried thereby into and out of position for engagement by the gears of the valve controlling means.

1,478,598. CARD AND TAG HOLDER. BÖRRE H. BÖRRESON, Minneapolis, Minn. Filed June 13, 1921. Serial No. 477,159. 10 Claims. (Cl. 40—16.)



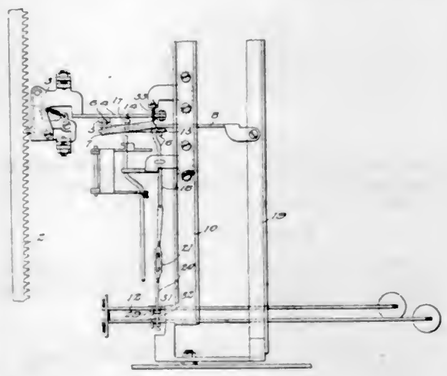
2. A card or tag holder comprising a plate having a seat for a card or tag and an opening through which the card is inserted to its seat, said plate also having a flange and a seat for a transparent plate arranged over said card, the edges of said flange being folded inwardly over the edges of said plate, and a wire sealing means adapted to prevent removal of the card through said opening.

1,478,599. PHOTOGRAPHIC REPRODUCTION AND METHOD OF AND APPARATUS FOR MAKING THE SAME. JOHN G. CAPSTAFF, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 21, 1914. Serial No. 862,716. 28 Claims. (Cl. 88—24.)



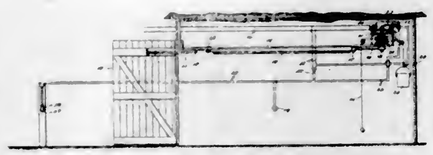
1. A method of preparing photographic reproductions which comprises optically projecting duplicate images upon opposite sides of a transparent support having a sensitive medium on each side, the images emanating from points out of register with the support and out of register with each other and being recorded in register with each other upon the respective mediums.

1,478,600. SILENT-KEY TYPEWRITER ATTACHMENT. LUIS CARDOSO, Puebla, Mexico. Filed June 17, 1922. Serial No. 569,099. 4 Claims. (Cl. 197—83.)



4. In a typewriter machine, an attachment for rendering certain keys of the typewriter inoperative as to the escapement of the typewriter, comprising a frame, a shift rod for actuating said frame, a pin secured to said frame, a pivotally mounted bell crank lever having one arm thereof connected to said shift rod adjacent the end opposite said frame, and means carried by the shank of said key for engaging the other arm of said bell crank lever for moving said bell crank lever when one of said keys is operated for shifting said pin to an inoperative position.

1,478,601. AUTOMATIC DOOR OPENER. FRANK E. DAVIS, Indianapolis, Ind. Filed Nov. 12, 1921. Serial No. 514,538. 7 Claims. (Cl. 268—9.)

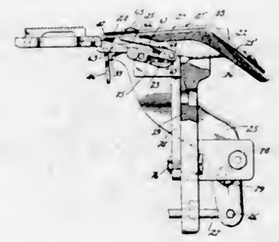


1. The combination of a movable closure, a cross head, a link connecting said cross head and closure, a motor driven rotary head, means for preventing said head from rotating in one direction, a connection between said rotary head and cross head, a stop carried by the rotating head and a cooperating stop adjacent said head for normally preventing rotation of the head in the opposite direction, one of the stops being provided with an electrically controlled element for retracting the same from the path of the other stop and means for controlling said electrically controlled element from a distant point.

1,478,602. SHOE-STAYING MACHINE. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed May 3, 1919. Serial No. 294,395. 46 Claims. (Cl. 112—130.)

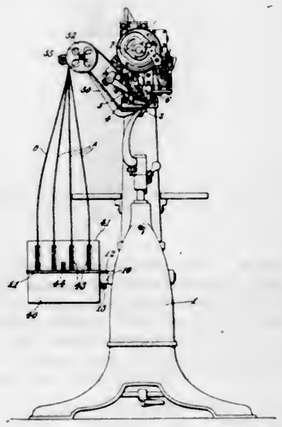
32. In a sewing machine, in combination, stitch-forming mechanism, work-advancing mechanism, additional feeding mechanism in advance of and acting in unison with said work-advancing mechanism, cutting mechanism

located between said work-advancing mechanism and said additional feeding mechanism, and means for rendering



the additional feeding mechanism and the cutting mechanism effective in alternation so that when one is effective the other is not effective.

1,478,603. FASTENER-STOCK-SUPPLYING MECHANISM FOR FASTENER-INSERTING MACHINES. STEPHEN A. DOBYNE, St. Louis, Mo., assignor to Champion Shoe Machinery Company, St. Louis, Mo., a Corporation of Missouri. Filed July 19, 1918. Serial No. 245,731. 4 Claims. (Cl. 1—27.5.)

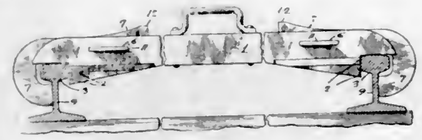


1. In a string nailing machine having a guide for a string of connected nails, means for feeding and cutting the string, means for inserting the nails, a source of nail string supply, and means arranged between said source of supply and said guide, constructed and arranged to twist the nail string to correct relation to said guide.

3. In a string nailing machine having a guide for a string of connected nails, means for feeding and cutting the string, means for inserting the nails, a source of nail string supply, and a pair of cooperating rolls arranged between said source of supply and said guide, constructed and arranged to twist the nail string to correct relation to said guide.

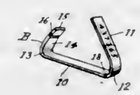
1,478,604. TRACK GAUGE. JOHN T. DOYLE, San Francisco, Calif. Filed May 21, 1921. Serial No. 471,423. 3 Claims. (Cl. 254—43.)

1. A track gange comprising a channel bar having gauge lugs and horizontally disposed slots adjacent each end thereof; a hook slidably mounted within each end of said channel bar and having a slot therein arranged to register with the slot in the bar, said hook being aranged to engage the outer side of the web of an adjacent rail; and a wedge slidably mounted within the registering slots in the bar and hook and aranged, when moved in one direction to actuate the hook to move the inner side of the head of said rail into contact with the adjacent gauge lugs.



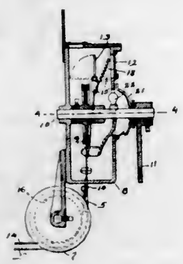
2. A track gauge comprising a channel bar having gauge lugs and horizontally disposed slots adjacent each end thereof; a hook slidably mounted within each end of said channel bar and having a slot therein arranged to register with the slot in the bar, said hook being arranged to engage the outer side of the web of an adjacent rail; and a wedge slidably mounted within the registering slots in the bar and hook and arranged, when moved in one direction to actuate the hook to move the inner side of the head of said rail into contact with the adjacent gauge lugs; and means for moving the hooks to disengage said webs.

1,478,605. EAR TAG. WARREN J. FRETZ, St. Paul, Minn. Filed Aug. 16, 1923. Serial No. 657,713. 4 Claims. (Cl. 40—3.)



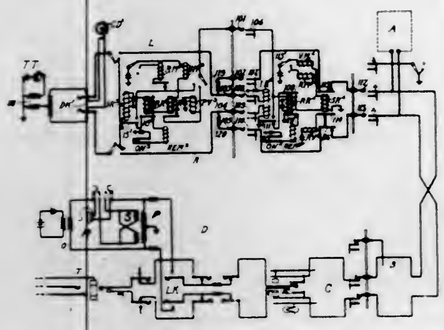
2. An animal marking tag including a body portion formed of flat wire, end members bent to form an enlarged portion on one end and a curved portion conforming with the edge of an animal's ear on the other end, said end members being adapted to overlap adjacent the opening in the animal's ear.

1,478,606. STOP AND DIRECTION INDICATOR. SANDOR GAZSE, San Francisco, Calif. Filed Nov. 17, 1921. Serial No. 515,946. 3 Claims. (Cl. 116—47.)



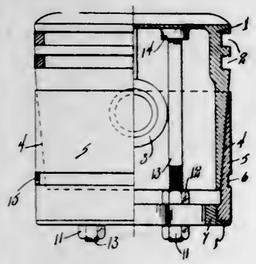
1. In an indicator for automobiles, having in combination, a casing provided with transparent front space, an oscillatory vane in said casing carrying the word "Stop" opposite said space, an arm on said vane, a treadle within reach of the driver, a cable secured at one end to said arm and its opposite end to said treadle for operating said vane and expose said word "stop" and a turnbuckle for adjusting the tension of said cable.

1,478,607. MACHINE-SWITCHING TELEPHONE-EXCHANGE SYSTEM. CHARLES L. GOODRUM, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 31, 1919. Serial No. 348,578. 15 Claims. (Cl. 179—27.)



1. A telephone system comprising telephone lines, operator controlled link circuits, automatic switches for interchangeably connecting said lines and link circuits responsive to calls over said lines, connection terminals for said lines, operator controlled automatic switches for connecting to said terminals of a calling line, and means including a circuit comprising the talking conductors in parallel for transmitting a characteristic signal to a connected operator's link circuit.

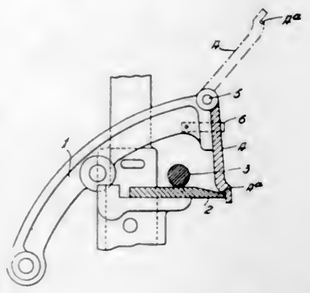
1,478,608. PISTON FOR INTERNAL-COMBUSTION ENGINES. WILLIAM A. HAZLEWOOD, Fort Worth, Tex., assignor of one-third to Jess H. White, Fort Worth, Tex. Filed Mar. 27, 1923. Serial No. 627,983. 3 Claims. (Cl. 74—108.)



1. A piston comprising a body provided with annular grooves in the periphery thereof for piston rings, a tapered skirt integral with said body, a head integral with said body and provided with screw-threaded sockets, a fibre skirt having a cylindrical periphery and an annular oil ring groove therein and having the interior tapered to conform in contour with the skirt of said body portion, a fibre cap screwed into the end of said fibre skirt, stud bolts screwed into said sockets and projected through said cap, and nuts for said bolts for holding said cap and fibre skirt in place.

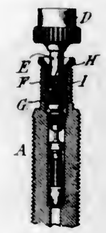
1,478,609. COMBING MACHINE. EUGENE HOLMES, Manchester, England. Filed Mar. 21, 1923. Serial No. 626,479. 2 Claims. (Cl. 19—116.)

1. In a combing machine, the combination of a nipper arm, a stationary bottom nipper, and a top nipper pivotally secured to said nipper arm and normally retained in contact with said bottom nipper, said top



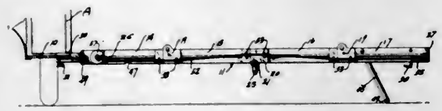
nipper being adapted to swing on its pivot away from the bottom nipper thereby to expose the underside of the top nipper.

1,478,610. DEFLATING VALVE CAP. HENRY PHILLIP KRAFT, Ridgewood, N. J. Filed Oct. 19, 1922. Serial No. 595,659. 6 Claims. (Cl. 152—12.)



1. A device of the character described, comprising a member having a screw driver projection having an abutment adapted to contact with the end of the valve pin, and a sleeve rotatively and slidably mounted on said projection, said sleeve having means for engaging the interior of the valve casing and holding the projection with its abutment in contact with the valve pin.

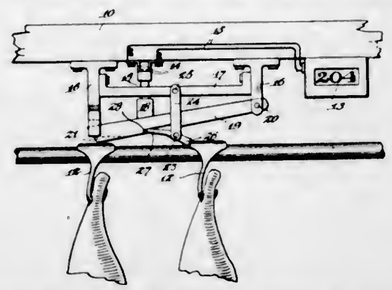
1,478,611. COLLAPSIBLE BED FOR AUTOMOBILES. SHERMAN E. LANE, Canon City, Colo. Filed Dec. 20, 1921. Serial No. 523,717. 11 Claims. (Cl. 5—72.)



1. An automobile bed comprising a plurality of collapsible frame sections, cable means for maintaining said frame sections in extended relation, and means hingedly connecting said bed to an automotive vehicle.

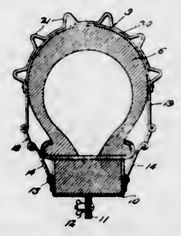
1,478,612. AUTOMATIC RECORDING DEVICE. MAX LAUKE, North Bergen, N. J. Filed Nov. 20, 1920. Serial No. 425,456. 2 Claims. (Cl. 235—98.)

1. The combination with a track having hangers slidable thereover and a register, of means operable by said hangers for actuating the register upon the passage of said hangers past a given point and means operable by



said actuating means when in active position to prevent the passage of succeeding hangers.

1,478,613. ANTISLIPPING ATTACHMENT FOR MOTOR-VEHICLE TIRES. ALBERT N. MENZER and FREDERICK MINTMIER, Johnstown, Pa. Filed Feb. 21, 1923. Serial No. 620,399. 3 Claims. (Cl. 152—14.)



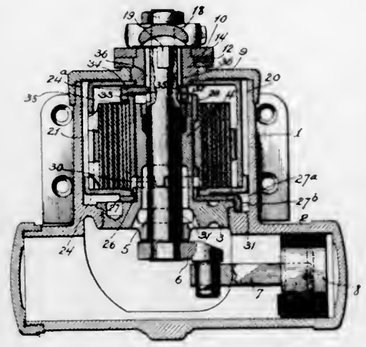
2. An anti-slipping attachment for tires of motor vehicles including units for engagement with a tire, each unit including detachable felly embracing members and road impinging elements, one of said elements comprising a strap the ends of which are in connection with said members, and a road surface engaging strap mounted upon the first said strap and formed to provide projections, said road surface engaging strap being superimposed on the first said strap.

1,478,614. PROCESS FOR DIGESTING WOOD PULP. EINAR MORTERUD, Torderod, near Moss, Norway, assignor to A/S Cellulosepatenter, Christiania, Norway. Filed Mar. 4, 1919. Serial No. 280,657. 1 Claim. (Cl. 92—11.)

The method of preventing the separation of calcium compounds from the digesting liquid due to the liberation of gas therefrom during the indirect digestion of sulphite cellulose, which comprises maintaining the liquid under a pressure in the digester during heating greater than the pressure permitting the liberation of gas from the liquor, thereby permitting the liberation of any substantial quantities of gas above the surface of the liquor in the digester, and substantially preventing the liberation of calcium salts that form a thick scum thereof over the surface of the digesting liquor.

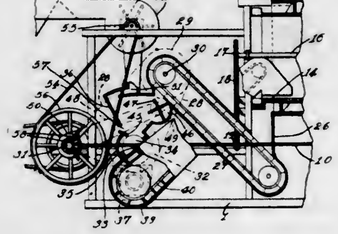
1,478,615. DOOR CLOSER. ROBERT S. POTTER, Greenwich, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed May 1, 1923. Serial No. 635,918. 7 Claims. (Cl. 16—59.)

1. In a door closer, the combination with a housing, a spindle, a fixed bearing member for the spindle, an arm for connection with a door, connected with said spindle, and a closer spring in the housing, of an inner winder connected with the spring and encircling said fixed bearing member, an outer winder encircling the spring and connected therewith, connections between the



inner winder and the spindle, connections between the outer winder and said arm, and means for preventing the turning of one of said winders when the other winder is turned.

1,478,616. SEED SEPARATOR. JAMES B. RYLANDER, Austin, Tex., assignor to The Rylander Company, Austin, Tex. Original application filed June 28, 1920, Serial No. 392,430. Divided and this application filed Aug. 30, 1922. Serial No. 585,200. 1 Claim. (Cl. 130—17.)

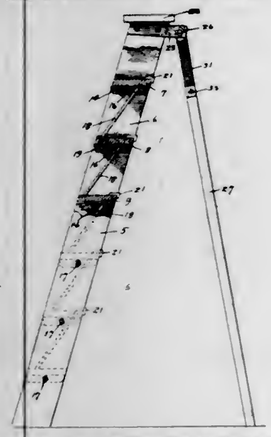


Separating apparatus including a separating chamber increasing in transverse area from its lower to its upper end and having a seed outlet at its bottom and an air outlet at its top, there being an air inlet in one wall of the chamber near the bottom thereof, a seed delivering valve rotatably mounted below the seed outlet and constituting a closure to prevent free flow of air through said seed outlet into the chamber, means for setting up a suction of air across one side portion of the chamber between the air inlet and the air outlet, a beater at one side of the chamber for throwing seeds horizontally across the chamber against the opposed wall and through the air current between the air inlet and air outlet, and means for supplying seeds to the beater.

1,478,617. STEPLADDER. RALPH W. SHANNON and CHARLAN E. SANDERS, Los Gatos, Calif. Filed May 13, 1922. Serial No. 560,692. 1 Claim. (Cl. 228—32.)

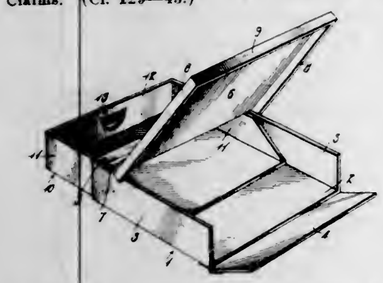
In a step ladder, substantially parallel side pieces spaced one from the other, steps secured between said side pieces, a brace between each pair of adjacent steps at each end thereof, each of said braces having one end extending through one of said steps at a point near the rear edge thereof, and bent so as to engage the

upper surface and said rear edge of the step, the opposite end of each of said braces extended through the next lower step and a nut secured to the lower end of each



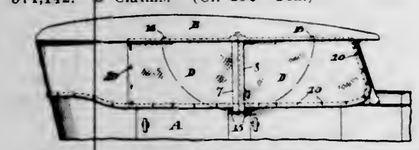
of said braces and contacting the under surface of said lower step and a pivoted leg centrally mounted between the upper ends of said side pieces.

1,478,618. FILING BOX. RANDOLPH W. SHANNON, New York, N. Y. Filed Aug. 4, 1922. Serial No. 579,736. 7 Claims. (Cl. 129—43.)



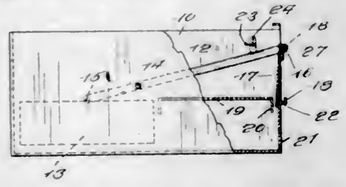
1. A filing box, comprising a casing having a swinging closure and a swinging front flap, said casing being open at one end, and a container adapted to be disposed within said casing, said container being bodily removable from the casing through the open end therein.

1,478,619. AUTOMOBILE STORM CURTAIN. JOHN T. SIMONS, HENRY D. ELLIOTT, and THOMAS P. STONEY, Charleston, S. C. Filed July 11, 1922. Serial No. 574,142. 5 Claims. (Cl. 296—142.)



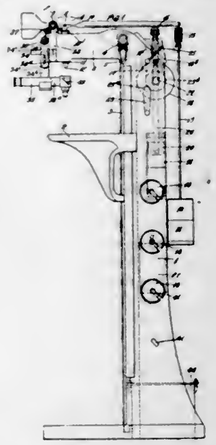
5. A storm curtain attachment for automobiles, comprising an attaching device carried by the automobile top, a support having quick detachable engagement with said device, a plurality of frames carried by said support, a curtain roller carried by each frame, each frame mounted on the support to move independently to an inoperative position extending longitudinally of the machine or to a substantially vertical operative position, and means for maintaining the frames separately in either position as desired.

1,478,620. TRAP NEST. HENRY C. SMITH, Denver, Colo. Filed May 3, 1923. Serial No. 636,503. 3 Claims. (Cl. 119—50.)



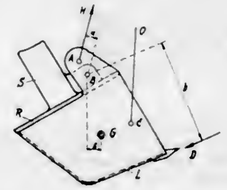
3. A trap nest comprising a nest box, the forward end of the nest box having an upwardly extending wall less in height than the height of the box, said wall terminating in an outwardly and upwardly extending flange constituting a seat, levers operatively pivoted upon the box, a nest proper swingingly mounted upon the rear ends of the levers, the forward ends of the levers being weighted to counterpoise the nest box, a platform supported within the box and extending between the nest and said seat, the platform being disposed at a height slightly above the seat, a door swingingly carried by said levers and having its pivotal axis in advance of the forward ends of the levers whereby the lower edge of the door will tend to swing outward when the levers are raised to their highest position to thereby cause the lower edge of the door to be disposed over said seat, and manually operable stops mounted upon the side walls of the box and shiftable in one position to limit the upward movement of the levers to a position where the lower edge of the door is disposed below the said seat and in another position permitting the levers to rise to a point where the lower edge of the door is above said seat to thereby permit the door to swing over said seat.

1,478,621. APPARATUS FOR TESTING THE HARDNESS OF MATERIALS. ROBERT LOW SMITH and GEORGE EDWARD SANDLAND, Erith, England, assignors to Vickers Limited, Westminster, London, England. Filed May 16, 1923. Serial No. 639,229. 8 Claims. (Cl. 265—12.)



1. Apparatus for testing the hardness of materials comprising a pressure applying lever, a weight at one end of said lever, a pressure applying member near the other end of said lever, a slidable member adapted to lie in the path of movement of said pressure applying lever, means controlling the movement of said slidable member and causing the same to move automatically and gradually out of the path of movement of said pressure applying lever to allow the latter, through the intermediary of the pressure applying member, to apply pressure gradually to the work and means acting automatically to restore the pressure applying lever to its original position, after the lapse of a predetermined interval of time, and to remove the pressure from the work.

1,478,622. DREDGING BUCKET. HEINRICH TOUSSAINT, Kiel, and HUGO FLUCK, Hamburg, Germany, assignors to Deutsche Werke Aktiengesellschaft, Berlin, Germany, a Corporation of Germany. Filed Sept. 19, 1922. Serial No. 589,090. 1 Claim. (Cl. 214—146.)



The combination with a guide-arm having a rigidly fixed rear-wall and a lug projecting at right angles from the arm and the said wall, of a dredger bucket, a hinge-joint for the bucket on said lug, extensions of the sides of the bucket rearward of its hinge-joint, a lifting cable fast to said extensions rearward of the hinge-joint, and a relief cable attached to the bucket in a forward point of the hinge-joint, as and for the purpose stated.

1,478,623. DRILL. FREDERICK HENRY VALITON, Deer Lodge, Mont., assignor of one-half to Philip L. O'Neill, Deer Lodge, Mont. Filed Jan. 20, 1922. Serial No. 530,618. 8 Claims. (Cl. 77—69.)



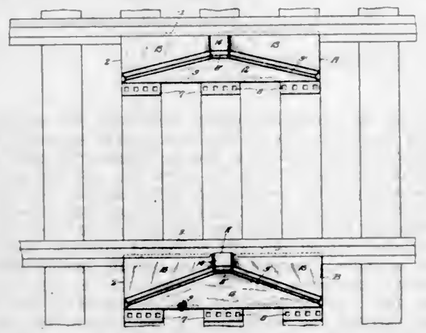
1. A drill comprising a body having a socket of the same diameter throughout and opening out through the forward end of the body, the wall of the socket being provided with a single spiral material discharging slot extending for the major portion of the length of the wall and in the direction opposite the direction of rotation of the drill, said spiral slot being extended out through the forward end of the body thereby defining a single cutting lip, a spring arranged in said socket, means detachably securing the spring within the socket and against rotation, a centering pin snugly and slidably fitted in said socket and having a head permanently and rotatably connected to said spring, said pin being provided with a lug arranged in said slot to direct the cuttings away from the socket and spring, and to cause the centering pin to rotate with the body, the depth of the slot being equal to the width of the cutting lip, whereby to permit of the free passage of the cuttings.

1,478,624. DRILL. FREDERICK H. VALITON, Deer Lodge, Mont., assignor of one-half to Philip L. O'Neill, Deer Lodge, Mont. Filed June 26, 1922. Serial No. 570,830. 16 Claims. (Cl. 77—69.)



1. A drill comprising a body having a socket and a spiral material discharge slot communicating with the socket, a centering pin arranged in said socket and having a lug received in said slot whereby to cause the pin to rotate with the body and to direct cuttings laterally, a spring urging said centering pin forwardly, and automatic releasable means forming an abutment for the rear end of said spring.

1,478,625. CAR REPLACER. ROBERT A. WALSH, Carbondale, Pa. Filed Sept. 11, 1923. Serial No. 662,129. 4 Claims. (Cl. 104—264.)

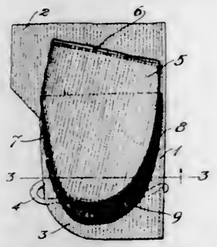


3. A car replacer comprising a body in the general form of an elongated pyramid having at one side a rail web abutting wall which is disposed vertically to the base line of the body, said wall extending the full length of the base of the body, the said body being provided at the same side with a rail head receiving recess located above the upper edge of the said wall and a trinity of spaced flanges at the base of the opposite side and disposed in alinement with the plane of the base, said flanges having spike openings and lugs located in the spaces between the flanges and disposed below the base line of the body and perpendicular thereto and adapted to engage between track ties.

1,478,626. SLIDING PAD. CLYDE WARES, Hanford, Calif. Filed Nov. 14, 1922. Serial No. 600,918. 1 Claim. (Cl. 2—197.)

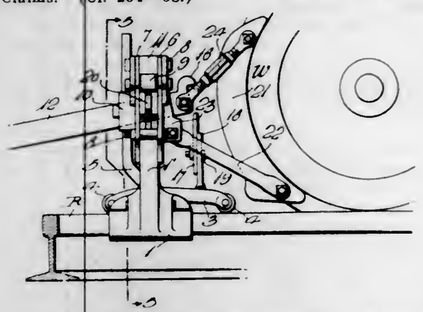
In combination with ball player's trousers a stationary primary pad stitched parallel with the upper edge thereof, a secondary pad arranged at a bias to the first mentioned pad and being of less area than same, said

secondary pad being stitched at its upper portion to the stationary primary pad and having its lower end and sides free to move in any direction, and a leather



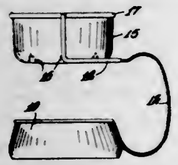
shield of an area less than the primary pad and equal to the secondary pad positioned between said pads to facilitate the movements as between the pads.

1,478,627. CAR PUSHER. IRA M. ABRAM, Dugger, Ind., assignor of one-fourth to Claire Thomson, Farmersburg, Ind. Filed Aug. 1, 1922. Serial No. 579,051. 8 Claims. (Cl. 254—38.)



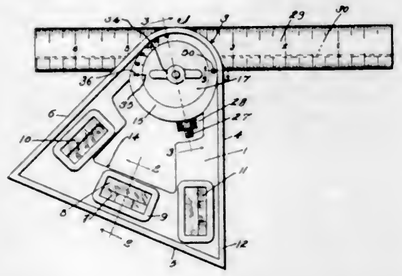
1. A car pusher comprising a carriage, rail engaging jaws pivoted to the carriage and having upwardly extending shank portions, a housing slidable vertically of the carriage for moving the jaws into and out of an operative position and limited in its upward movement by the shanks, a wheel-engaging shoe, links pivotally connected with the housing and lower end portion of said shoe, a lever pivotally connected with the housing and extending forwardly and rearwardly thereof, links pivotally connected with the forward end of said lever and upper end of said shoe, and a fulcrum carried by said carriage and engageable by the forward end portion of said lever to cause raising of the housing when the rear end portion of the lever is swung upwardly.

1,478,628. TEA AND COFFEE STRAINER. CHARLES APOTHÉLOZ, New York, N. Y. Filed Nov. 26, 1921. Serial No. 518,008. 6 Claims. (Cl. 210—162.)



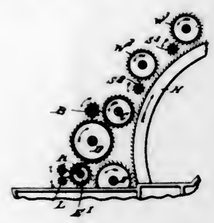
1. A strainer of the type described comprising a pan, a post secured to one side of the said pan and adapted to serve as a handle, said post having at its upper end a laterally offset bail-like element, and a strainer element pivotally suspended from the said bail-like element.

1,478,629. COMBINATION TOOL. THOMAS HERBERT BARTLETT, Long Beach, Calif. Filed Aug. 18, 1921. Serial No. 493,389. 1 Claim. (Cl. 33—94.)



In a device of the class described a body, disks rotatable on the body, one disk having a transverse shoulder and being provided with a guide-way disposed at an angle thereto, a blade slidable for adjustment on the shoulder, a securing element connecting the disks, an arm slidable in the guide-way and having an elongated slot receiving the securing element, the arm having a thinned end extended between the blade and said disk, the thinned end of the arm and the blade having interengaging elements which coact to hold the blade on the shoulder for sliding movement longitudinally of the blade, and a tightening element on the arm and coacting with the body to move the arm endwise, thereby to clamp the blade on the shoulder and to hold the disks against rotation on the body.

1,478,630. POINT-TO-POINT BREAST FOR WOOL CARDS. EDDO V. BATES, Lowell, Mass. Filed Jan. 14, 1920. Serial No. 351,461. 7 Claims. (Cl. 19—105.)

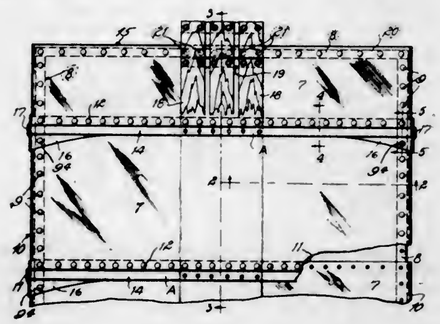


1. In a carding machine having a main cylinder, feeding in rolls and a forward running burr cylinder lickerin, the combination of a forward running Garnett wire breast cylinder which takes part of the stock directly from the burr cylinder lickerin, a Garnett wire worker in carding contact with the main cylinder and with the breast cylinder, a stripper between such worker and the breast cylinder, and a tumbler in stripping contact with the breast cylinder and the lickerin and in such contact therewith as to be stripped by the main cylinder.

1,478,631. PROCESS FOR CONCENTRATING CARNOTITE ORES. WARREN F. BLEECKER, Boulder, Colo. Filed Feb. 1, 1922. Serial No. 533,487. 4 Claims. (Cl. 23—13.)

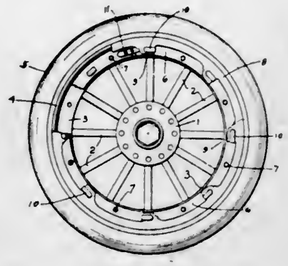
1. The process of concentrating carnotite ores consisting in subjecting the ore to the combined disintegrating actions of sulfuric acid and hydrofluoric acid to a point at which the radium bearing mineral in a substantially solid condition is loosened from the sands, and then mechanically separating the loosened mineral from the sand.

1,478,632. CAR ROOF. CHARLES DAVID BONSALL, Pittsburgh, Pa., assignor to P. H. Murphy Company, New Kensington, Pa., a Corporation of Pennsylvania. Filed Jan. 18, 1922. Serial No. 530,079. 6 Claims. (Cl. 108—5.4.)



1. A car roof comprising a plurality of roof sheets extending from eaves to eaves with their adjacent side marginal portions lapping each other and rigidly secured together along a single line located far enough from the side edge of one sheet to permit the free marginal portion thereof beyond said line to be formed into a stiffening rib whose outer edge portion is free throughout the middle portion of the roof.

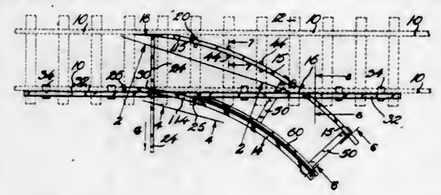
1,478,633. DEMOUNTABLE RIM FOR AUTOMOBILE WHEELS. WILLIAM J. BRUCE, Escanaba, Mich. Filed Jan. 24, 1921. Serial No. 439,455. 1 Claim. (Cl. 301—23.)



In combination with the felly of a wheel, and rim removably supported thereon, a circular plate fixed to the outer face of said felly, and provided with a plurality of locking devices, projected outwardly therefrom; a circular plate, of sufficient diameter to cover the joint between said felly and rim, provided with projections adapted for detachable engagement with said lugs and having an inclined groove in the outer face thereof; and a latch pivoted on said first-named plate, adapted to engage one of said projections and hold the same against becoming detached said latch being fitted at one end for a sliding engagement with said groove, and at the other end with a friction spring.

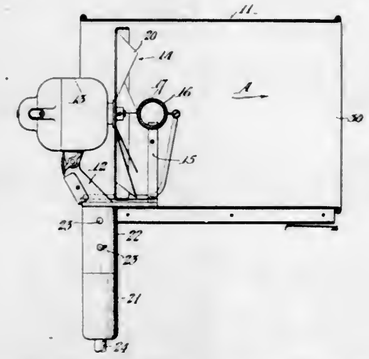
1,478,634. PORTABLE SWITCH FOR RAILROADS. CHARLES W. BURRIS, Rapson, Colo. Filed Oct. 9, 1922. Serial No. 593,286. 8 Claims. (Cl. 246—429.)

1. A portable switch comprising a pair of rails adapted to be anchored to a main line, the ends of the rails being movable with respect to said rails, one of said ends being adapted to be moved to and from engagement with the side of the respective main line rail, and the other



end being adapted to rest upon the top of its main line rail and adapted to be moved laterally therefrom and means for positively moving said two ends in unison.

1,478,635. HAIR DRIER. JAMES H. CANNON, Los Angeles, Calif. Filed Oct. 4, 1919. Serial No. 328,592. 4 Claims. (Cl. 34—26.)

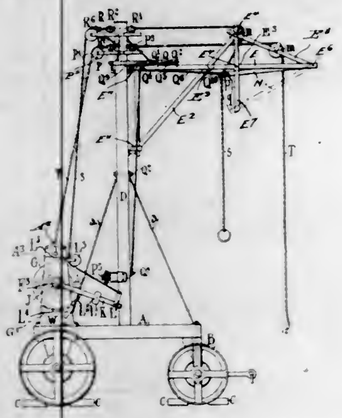


1. A hair drier comprising a cylinder having an open end over which the hair to be dried is placed; a motor located inside and on the axis of said cylinder; a heating element located inside and on the axis of said cylinder, said heating element being raised to a visibly radiating temperature when in use; a reflector carried on the shaft of said motor; and vanes formed in said reflector so shaped as to force air towards said open end along the axis of said cylinder.

1,478,636. CRANE. ARTHUR CLAYDEN, Richmond, England. Filed Aug. 11, 1919. Serial No. 316,648. 6 Claims. (Cl. 212—39.)

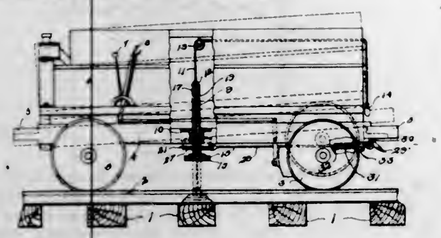
1. The combination of a vertical standard carried by and secured to a base; a swinging jib with pivots therefor mounted on said standard; a guide pulley attached to said jib; a pulley frame supported by the said standard; guide pulleys attached to said frame, winding means carried on a shaft supported on a frame mounted upon said base; an eccentric bearing, supporting one end of the winding shaft, an arm connected to the eccentric bearing; a friction gear member upon the winding shaft; an operable countershaft for driving the winding shaft; a friction gear member upon the countershaft to co-operate with that upon the winding shaft; a flexible member attachable at one end to the load and at the other end attached to the winding means, passing over said guide pulleys; a further guide pulley attached to the said jib; a further pulley frame supported by the said standard; guide pulleys attached to this said frame; a guide pulley attached to the frame of the winding means; and a flexible member having a free end, operable as a control actuation device, passed over the lat-

ter guide pulleys, and at its other end attached to the free end of the arm attached to the eccentric bearing, so that when the free end of the control member is



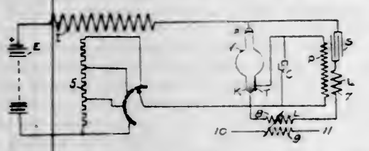
pulled the arm is raised and the eccentric bearing is oscillated to put the friction gears in contact to cause the winding shaft to revolve with the countershaft.

1,478,637. TRACKMAN'S CAR. PATRICK CLIFFORD, Wallula, Wash. Filed Aug. 28, 1922. Serial No. 584,892. 1 Claim. (Cl. 254—87.)



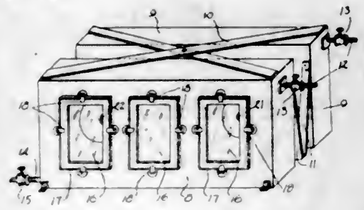
The combination with a railway car having a central bearing sleeve, of a drop pedestal in said sleeve having a head, a non-rotatable base encasing said head and suspended from the pedestal, a lifting cord attached to the pedestal, and locking means carried by the car for engagement selectively with means on the pedestal to suspend the pedestal in the car and to suspend the car on the pedestal when the latter is lowered.

1,478,638. ELECTRIC OSCILLATOR. HENRY G. CORDES, Bremerton, Wash. Filed May 10, 1917. Serial No. 167,809. 27 Claims. (Cl. 250—36.)



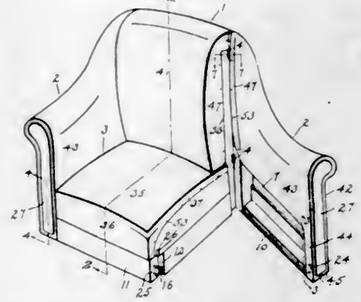
1. In a linear-sinusoidal oscillator comprising a direct current capacitance charging circuit, a direct current discharger circuit, a sinusoidal discharge circuit and a unidirectional current relay-discharger therefor an auxiliary oscillating current relay-discharger actuating circuit coupled to said discharge circuit for actuating said relay-discharger of said oscillator.

1,478,639. TREATMENT OF PHOTOGRAPHIC FILMS AND APPARATUS THEREFOR. CHARLES THOMAS COUNSELL, Sydney, New South Wales, Australia, assignor to Counsell Film Process and Chemical Company Limited, Sydney, New South Wales, Australia. Filed Nov. 14, 1922. Serial No. 600,951. 3 Claims. (Cl. 95—89.)



1. In the treatment of photographic films for cleaning, hardening, or toughening purposes, placing a spool of film on an unwinding spindle within a tank or chamber, the free end of the film being secured to a spool on a winding spindle, said spindles being spaced apart in the tank, making the tank air tight, passing therein a treating spray or gas, and rotating said winding spool at a speed which will permit the treating agent to act on the length of film between the spindles, provision being made for escape of excess of the treating agent.

1,478,640. CHAIR CONSTRUCTION. HOMER COVERLY, Los Angeles, Calif. Filed July 24, 1922. Serial No. 577,017. 9 Claims. (Cl. 155—184.)

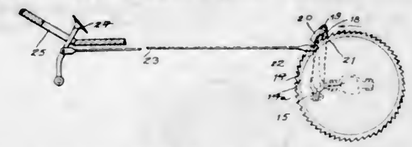


1. The combination with a chair of a seat cover, said chair comprising a back, side members connected thereto and providing for movement of said side members relative to said back and from their normal position extending forwardly from said back at the sides thereof, and a seat mounted between said side members and in front of said back, said seat cover being fastened to the sides and rear of said seat so that said fastening edges are concealed by the side members and back of the chair when the parts are in normal position, and releasable locking means adapted to retain the chair structure in normal position and also clamp said seat between said side members in said chair.

1,478,641. VEHICLE BRAKE. ZADOK A. DAVISSON, Clarksburg, W. Va. Filed Feb. 9, 1921. Serial No. 443,587. 1 Claim. (Cl. 188—31.)

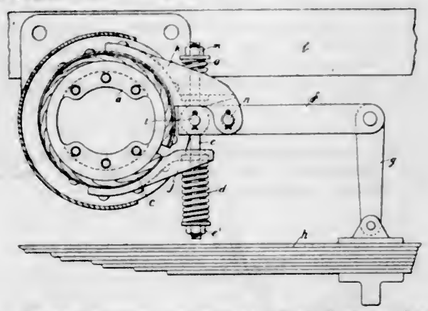
A back stop brake for motor vehicles having a longitudinal drive shaft and a rear driven axle geared together centrally of the rear axle, and wherein driven supporting wheels are fixed to the ends of the rear axle and a housing is provided for the rear axle and the drive shaft, comprising brackets mounted upon the rear axle housing at each side of the drive shaft and projecting forwardly from said housing with bearings in their forward free

ends, a transverse rock shaft journaled in the bracket bearings directly in front of the rear axle and having an off-set central portion extending under the longitudinal drive shaft, arms secured to and extending upwardly from the ends of the transverse rock shaft inwardly of the driven supporting wheels, rings fixed to the inner sides of the supporting wheels and both having rearwardly facing ratchet teeth, pawls pivoted to the upper ends of said arms and both depending in forwardly and downwardly inclined position with their



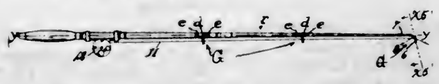
lower ends both engaging the teeth of said rings forwardly of the axes of the rings to prevent retrograde or backward rotation of the supporting wheels, means to limit downward swinging movement of the pawls to a point where they are forwardly and downwardly inclined, a third arm secured to and extending upwardly from the transverse rock shaft inwardly of one of said brackets, and a link to connect said last named arm to the gear shift lever of the vehicle whereby the arms and pawls are swung forwardly and disengaged from said ratchet teeth when the transverse shaft is rocked by movement of the gear shift lever to reversing position.

1,478,642. SHOCK-ABSORBING DEVICE FOR SPRING-SUPPORTED VEHICLES. NOËL EVELYN DUFTY, London, England. Filed July 5, 1921. Serial No. 482,549. 1 Claim. (Cl. 188—130.)



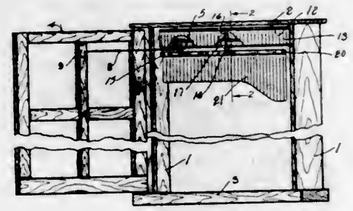
A, shock absorber comprising a fixed drum, a brake band thereon and open at one side, jaws attached to the ends of the band, a lever fulcrumed to one of the jaws and arranged to bear with its shorter arm thereunder and between the jaws, a link to connect the longer arm of the lever to an axle, a bolt pivotally connected to the shorter arm of the lever and extending in opposite directions loosely through said jaws and springs carried by said bolt and bearing against said jaws and active to normally force the jaws toward each other and thereby frictionally grip the brake band on the drum.

1,478,643. FISHING-ROD TIP AND GUIDE FOR FISHING LINES. ALAH WILTON ELLIOTT, Santa Paula, Calif. Filed Apr. 20, 1923. Serial No. 633,442. 10 Claims. (Cl. 43—24.)



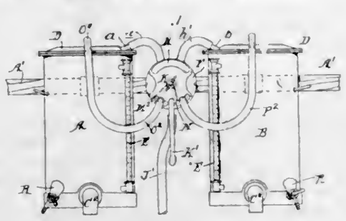
1. A fishing rod tip or guide having an eccentric lineway formed between and bounded by four arcuate surfaces, the axes of which are oblique to a plane intersecting the axis of the rod and the axis of said lineway.

1,478,644. ATTACHMENT FOR SCREEN DOORS. MAX F. FISCHER, Arvada, Colo. Filed Mar. 30, 1923. Serial No. 628,797. 4 Claims. (Cl. 230—7.)



1. In combination, a door frame; a door pivotally attached to one side thereof and adapted to be opened and closed; a spring roller mounted between the two vertical side members of the door frame; a flexible member wound about said roller and having one end secured to the roller and the other to the door, the relation between the spring roller and the flexible member being such that when the door is opened, the roller will be rotated in a direction tending to wind the spring; a flexible member secured to one side of the door frame and located directly beneath the roller, said flexible member being free to vibrate in a horizontal plane; and projecting portions on the roller adapted to engage the flexible member when the roller rotates and to cause the same to vibrate.

1,478,645. MILKING MACHINERY. JAMES WILFRED FUGE, Featherston, New Zealand. Filed Dec. 29, 1922. Serial No. 609,700. 2 Claims. (Cl. 31—70.)

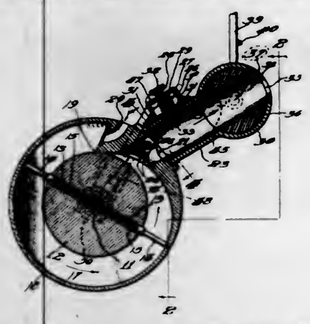


1. Apparatus for the purposes herein described consisting in the combination with a vacuum pipe main and with a teat cup connection, of a pair of airtight cans, and a valve mechanism disposed adjacent to the cans and arranged in communication with the vacuum pipe main and with the teat cup connection and with the respective cans, such valve mechanism being so constructed that it may be operated to connect both cans with the vacuum, to connect either can with the teat cups while maintaining the connection of both cans with the vacuum main, and to cut off the other can from vacuum and open it to atmosphere while maintaining the said connections of the first can to vacuum and the teat cups.

1,478,646. BRAKE FOR VEHICLES. CHARLES H. GILL, Chicago, Ill. Filed Jan. 26, 1921. Serial No. 440,195. 1 Claim. (Cl. 188—90.)

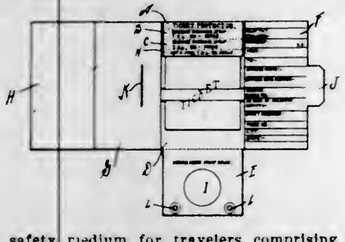
In a vehicle brake, the combination of a cylinder fashioned with a cam surface upon a section of its inner curved wall, a core rotatable within said cylinder, recesses within said core, springs in said recesses, pump blades adapted to slide into and out of said recesses and normally urged outwardly into contact with the inner curved wall of said cylinder by said springs, an inlet valve, an outlet valve, a compression safety valve situated between said cylinder and said outlet valve, means under the control of the operator for opening or closing the said outlet valve at will, and means operated by said

last named means for operatively connecting the said core to a driven shaft whenever the said outlet valve is in any other than a fully opened state and for operatively



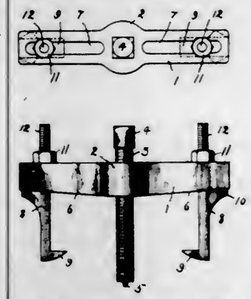
disconnecting the said core from the said driven shaft whenever the said outlet valve is in fully opened position.

1,478,647. MEANS FOR PROTECTING AND IDENTIFYING PASSAGE TICKETS AND BAGGAGE CHECKS. AMOS A. GLISSON, Fort Worth, Tex. Filed Aug. 8, 1922. Serial No. 580,512. 4 Claims. (Cl. 283—23.)



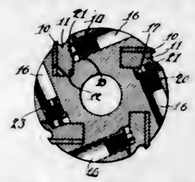
1. A safety medium for travelers comprising a body member of flat material provided with a ticket holding band, severable strips gummed on one side,—and provided on the other side with printed information and foldable on said body for partly inclosing a ticket, a severable baggage identifying member integral with said body and provided with conventional blanks and printed instructions thereon, and information-bearing members integral with said body and foldable thereon.

1,478,648. MECHANICAL PULLER. JOHN GRAHEK, Chisholm, Minn. Filed Sept. 16, 1921. Serial No. 501,098. 1 Claim. (Cl. 29—85.)



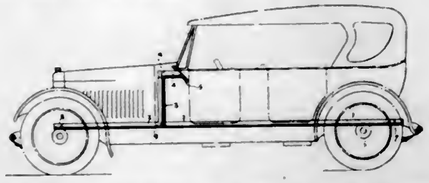
A holding member for pullers having a main cross-bar with opposed wholly surrounded slots therethrough, said holding member being cylindrical and externally screw threaded upon that end which is engaged within the slot in the cross-bar, and rectangular upon the opposite end, the latter being hooked for engagement with the object to be pulled, and a shoulder at the junction of the two different shapes of the member, said shoulder projecting principally in the opposite direction to that of the hook to prevent stress upon the latter bending the member backwardly, the longitudinal face of both ends of the member being in the same plane.

1,478,649. ROTARY CUTTER HEAD. OSCAR R. GUSTAFSON, Chicago, Ill., assignor of one-half to George S. Scott, Chicago, Ill. Filed July 18, 1921. Serial No. 485,692. 3 Claims. (Cl. 144—230.)



1. The combination of a cutter head having a longitudinal recess for accommodating a cutter blade and a keeper therefor, a cutter blade and a keeper side by side in said recess, the head having a hole extending from its peripheral surface toward and into said recess adjacent to the keeper, a readily removable nut member having a sleeve part loosely fitting in said hole and having a flanged part adjacent to the keeper for holding the nut member against rotation and against movement in said hole in a direction away from the keeper, a threaded member passing through the nut member and impinging the keeper to hold the blade in the recess, said threaded member having means at its outer end portion for rotating it in the threading and unthreading directions, said nut member having such length that when the blade and keeper are removed from said recess the nut member may be removed from its containing hole through the recess after removing the threaded member from the nut member.

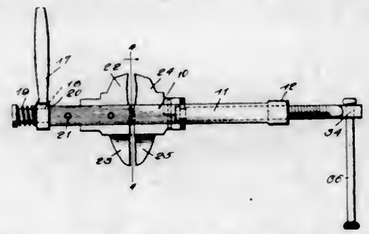
1,478,650. AUTOMOBILE PERISCOPE. LLOYD HALLENGREN, Santa Rosa, Calif. Filed Aug. 27, 1921. Serial No. 496,110. 2 Claims. (Cl. 88—67.)



2. A vehicle periscope comprising a tube having a plurality of sections extending at angles to each other to reach from the instrument board of a vehicle to a point looking rearwardly, an object lens at said rearward end of the tube, means at the meeting places of the aforesaid sections situated at such angles as to reflect an image formed by said lens along the tube, and a screen, including a ground glass, situated on the instrument board at the other end of the tube and at angles both to the tube and the last reflecting means to intercept the image.

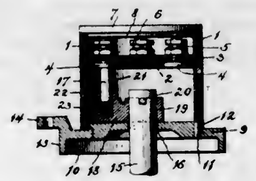
1,478,651. COMBINATION HOLDER, WRENCH, AND CLAMP. ALBERT G. HARRIS, Louisville, Ky., assignor of one-half to Thomas O. Varble, Louisville, Ky. Filed Apr. 14, 1923. Serial No. 632,079. 4 Claims. (Cl. 81—175.)

1. A tool of the character described comprising an elongated body having a fixed jaw, a movable jaw guided upon said body and movable toward and from the fixed jaw, a screw passing through one end of the body and having swiveled engagement with the movable jaw, the



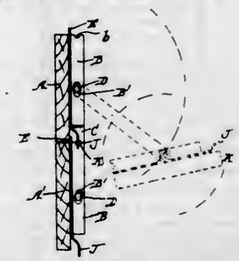
screw having a handle, and a handle at the opposite end of the body adjustable into a plurality of radial positions relative to the body.

1,478,652. TIMER FOR INTERNAL-COMBUSTION ENGINES. EVERETT HARRIS, Linden, Ind., assignor of one-half to Charles W. Zeigler, Attica, Ind. Filed Aug. 2, 1919. Serial No. 314,841. 3 Claims. (Cl. 200—24.)



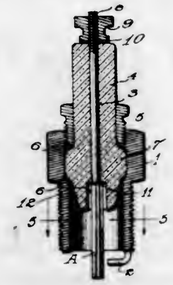
1. A timer for internal combustion engines comprising a tubular casing having a peripheral slot for the passage of the feed wires, an insulating disk in frictional connection with the inner walls of the casing and below the top thereof, a plurality of threaded bolts projecting through the disk, the heads of said bolts being countersunk in one face of the disk and constituting contact surfaces on the under side of the latter and the threaded shanks constituting binding posts on the other side of the disk for the feed wires, a disc cap frictionally mounted in one end of the casing for closing the latter, a metal bearing plate fixed on the other end of the casing and having a central aperture to receive the actuating shaft, a peripheral flange on the plate forming a rotatable mounting between the plate and engine casing, and a yielding revolving contact carried by the cam shaft in operative relation to the contacts.

1,478,653. CONCRETE-WALL BOXING. ARTHUR EDWARD HOLMES, Timaru, New Zealand. Filed Mar. 30, 1923. Serial No. 628,861. 3 Claims. (Cl. 25—131.)



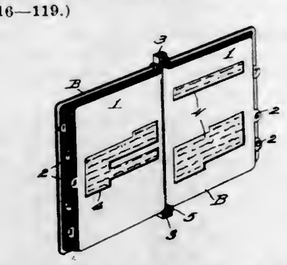
1. Boxing for the moulding of concrete walls formed, for each side of the mould, of two planks adapted to be disposed, edge on, vertically one above the other, each having bars of angle iron secured to extend vertically on its outside face at approved points in its length and extending continuously with similarly positioned bars on the other plank, and a link bar made to overlap each pair of angle iron bars of the two planks, and pivoted at its ends to the respective bars by means of pivot pins passing through the end and through slots formed longitudinally in the respective angle iron bars, and so disposed as to permit of one plank swinging in a transverse direction upon the other, substantially as specified.

1,478,654. SPARK PLUG. CHARLES P. HOOPES, FRANCIS P. HOOPES, and WILLARD S. STEELE, Toledo, Ohio. Filed Apr. 8, 1922. Serial No. 550,609. 1 Claim. (Cl. 123—169.)



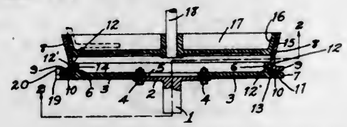
A spark plug electrode which is Y-shaped in transverse section thereby having branch flanges some of which are disposed at an acute angle to each other and others at obtuse angles to each other whereby acute angle surfaces or obtuse angle surfaces may be presented to the spark gap.

1,478,655. LOOSE-LEAF MARKER FOR BOOKS. LLOYD E. HUGHES, Kansas City, Kans. Filed Sept. 18, 1922, Serial No. 588,817. Renewed Nov. 5, 1923. 4 Claims. (Cl. 116—119.)



2. The combination with a book, of leaf markers of substantially equal area as the book leaves, fitting in the book and provided with windows to expose particular portions of the leaves of the book and with tabs disposed exterior to the upper and lower edges of the book, and exterior means engaging the hinge of the book and the said tabs to hold the markers in place.

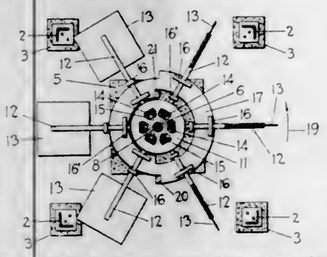
1,478,656. CLUTCH. JOHN JAMISON, Lafayette, Colo. Filed Oct. 22, 1920. Serial No. 418,782. 2 Claims. (Cl. 192—55.)



1. A clutch mechanism of the class described, including a two-part driving portion and a driven portion, bearing flanges carried by one of the parts of the driving portion and bearing parts carried by the second part

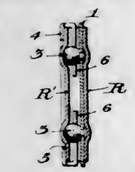
of the driving portion and disposed in opposed relation with the bearing parts of the first part of the driving portion, a lug member carried by one part of the driving portion and a lug member carried by the second part of the driving portion, the lug on the second part projecting beyond the periphery of one of the bearing flanges to engage with the lug on the first part whereby to permit an independent movement of one of the parts of the driving portion before taking up the load to be driven.

1,478,657. WATER WHEEL. RICHARD D. KELLY, The Dalles, Oreg. Filed Aug. 10, 1922. Serial No. 580,843. 1 Claim. (Cl. 170—121.)



In a water wheel, the combination of a platform, a foundation mounted underneath the platform, a pipe sleeve rotating on the foundation and extending through the platform, arms radiating from the pipe sleeve and having an independent rotation around their axis, blades mounted at the end of the arms, an inner shoe mounted on each arm near the pipe sleeve, an outer shoe mounted on each arm near the blade, a track supported on the foundation underneath the shoes, and steps in the track adapted to alternately engage the inner and outer shoes, whereby the blade is compelled to change its relative position.

1,478,658. RIBBON-BRACELET CLASP. RUFUS KING, Plainville, Mass., assignor to Bugbee & Niles Company, North Attleboro, Mass. Filed Oct. 2, 1922. Serial No. 591,846. 9 Claims. (Cl. 24—203.)



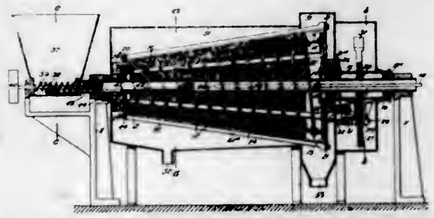
3. In a ribbon bracelet clasp, a male member having a pair of heads and formed for connection with one end of the ribbon and a female member having a body with inturned split ends engaged over the opposite end and with the respective side edges of the ribbon and providing spring clasps for engaging the respective male members.

1,478,659. BUCKLE. RUFUS KING, Plainville, Mass., assignor to Bugbee & Niles Company, North Attleboro, Mass. Filed Dec. 9, 1922. Serial No. 605,775. 5 Claims. (Cl. 24—178.)



3. In combination with a buckle body having spaced parts formed with inwardly facing fingers, a hollow tongue-carrying cross bar formed to be sprung into engagement with the fingers.

1,478,660. CENTRIFUGAL SEPARATOR. GERARD CHARLES BARNES and JAMES ROBERTS MORGAN, Coogee, New South Wales, Australia. Filed Jan. 20, 1921. Serial No. 438,537. 6 Claims. (Cl. 210—69.)



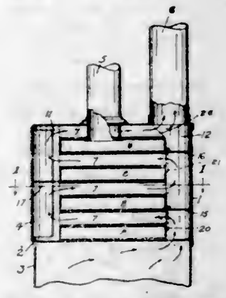
4. In a centrifugal separator, the combination of a tubular fixed shaft, a helix mounted for rotation on said shaft, means for feeding material into said shaft, said shaft having an elongated discharge opening within said helix, a slidable gate for closing said opening, and means for operating said gate.

1,478,661. OPHTHALMIC MOUNTING. HENRY E. KIRSTEIN and HARRY W. GAGE, Rochester, N. Y., assignors to Shur-On Optical Co., Inc., Rochester, N. Y., a Corporation of New York. Filed Feb. 16, 1923. Serial No. 619,488. 6 Claims. (Cl. 88—53.)



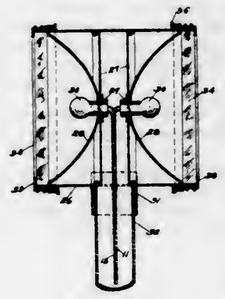
1. An ophthalmic mounting comprising a temple having two spaced ears, and a split lens rim having two end pieces detachably connected together, one of said end pieces having the two ears of the temple mounted thereon and also having a portion extending between the ears.

1,478,662. HEATING STOVE. CECIL S. KNOWLES, Seattle, Wash. Filed Mar. 19, 1923. Serial No. 626,004. 4 Claims. (Cl. 126—67.)



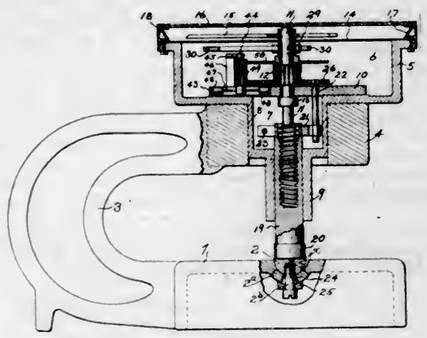
1, A device of the class described, comprising a body, a plurality of smoke conductors and air conductors, consisting of hollow, flat members provided with open opposite portions, said members being superimposed so as to form adjacent passageways for conducting smoke and air in sinuous paths and in transverse directions to each other, supports therefor, smoke and air chambers communicating with the smoke and air conductors respectively, an air inlet, an air outlet, a smoke outlet, means for producing a circulation of combustion products through the smoke conductors, means for effecting a circulation of air through the air conductors, and means for preventing a commingling of said products and air.

1,478,663. RAILROAD-CROSSING SIGNAL. WILLIAM B. KUHN, Shelby, Ohio. Filed Aug. 22, 1922. Serial No. 583,527. 2 Claims. (Cl. 177—329.)



1. A railroad road crossing signal comprising a drum casing, transverse spaced partitions therein, a reflector arranged within the drum beyond each partition, lamp sockets carried by the partitions and projecting through the reflectors, and a removable transparent cover for each end of the drum.

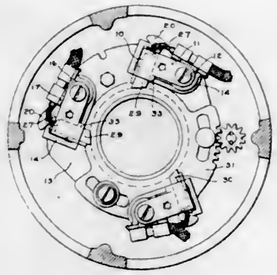
1,478,664. MICROMETER CALIPERS. WILLIAM D. LA BATT, Chicago, Ill., assignor to Elisha J. Cady, Oak Park, Ill. Filed June 5, 1922. Serial No. 566,043. 11 Claims. (Cl. 33—147.)



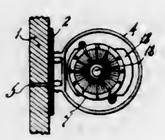
1. In a calipering device, a base, an anvil, a ball and socket joint connecting the anvil and base, a measuring-foot, a movable handle, a scale and revoluble pointer, a shaft actuating the pointer, operating connections between the shaft and foot, and gear connections between the shaft and handle to operate the former when the latter is moved.

1,478,665. BRUSH RIGGING. THOMAS L. LEE, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 9, 1922. Serial No. 542,453. 5 Claims. (Cl. 171,324.)

1. Brush-rigging comprising, in combination with a base-member normal to the axis of a dynamo-electric machine; a reversible U-shaped brush-guide with a flat bearing-surface on the inside of its middle-portion; a post connecting the ends of the arms of said brush guide and drawing the guide as a whole toward the base-member; insulating material interposed between the brush-guide and the base-member; an arm pivotally mounted on the post and adapted to engage the brush; and a spring engaging said arm and coiled around the post.



1,478,666. WATCHMAN'S TIME-RECORDING DEVICE. ABRAHAM L. LISOY, Dallas, Tex. Filed July 27, 1922. Serial No. 577,926. 2 Claims. (Cl. 234—40.)



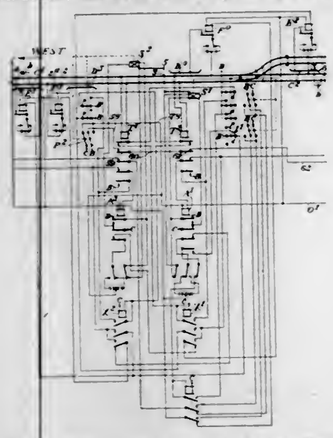
1. In combination with a door having an opening therein, a time clock having a rotating dial, a casing for the clock having a hinged cover formed with an opening, means to secure the cover to the door with the opening thereof in register with the door opening, and an instrument formed to be carried by the watchman and receivable in said registering openings, and having a pointed end to puncture the dial.

2. In a time clock, a casing, clock mechanism in the casing having an arbor, a plate having a central part connected to the clock arbor, a rim space from the central part, substantially U-shaped loops connected to the rim and central part and extending rearwardly of each, a paper dial and pins on the plate penetrating the dial for holding the latter onto the plate, said casing having a pin-receiving opening in register with the space between the central part and rim of the plate and with the open portions of the loops.

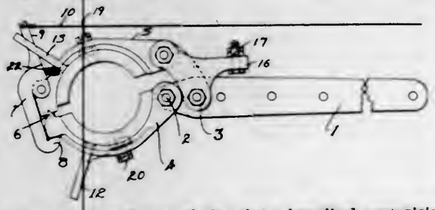
1,478,667. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. RONALD A. MCCANN, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed July 15, 1919. Serial No. 311,015. 12 Claims. (Cl. 246—33.)

11. In combination, two successive traffic controlling devices each normally serving to govern eastbound traffic only, a third traffic controlling device normally serving to govern westbound traffic only, each of said devices being individually capable of giving aboard a train all the indications desired in the system depending on the electrical condition of the device, and means operating

automatically when an eastbound train approaches said third device to cause such third device to give the same indication aboard the train as that given by the first eastbound device encountered by the train, thereby preventing said third or westbound device from interfering with eastbound traffic.

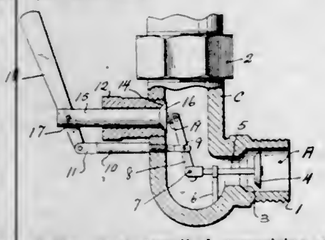


1,478,668. POWER PIPE TONGS. EDWARD LORD MCCLOUD, Esparto, and PATRICK KERWIN, Manchester, Calif. Filed Dec. 7, 1922. Serial No. 605,370. 1 Claim. (Cl. 81—66.)



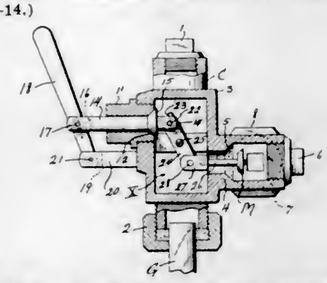
A power pipe tongs of the class described comprising an operating handle, a jaw pivotally mounted thereon having a knife bearing at its outer end, a second jaw resting against said knife bearing, a spring latch for holding the two jaws together adjacent said knife bearing, a link connecting the second jaw to the handle to enable the jaws to be tightened upon a pipe to turn it and a lug carried by said link having an adjustable bolt to enable the jaws to be quickly loosened when the handle is turned in the proper direction.

1,478,669. AUTOMATIC FOUNTAIN VALVE. CHARLES F. MATTINGLY, St. Louis, Mo., assignor to Mattingly Automatic Valve Co., St. Louis, Mo., a Corporation of Missouri. Filed July 18, 1921. Serial No. 485,628. 1 Claim. (Cl. 277—20.)



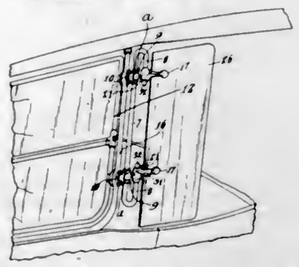
A valve of the class described comprising a casing adapted for communication with a source of fluid under pressure, the bore of said casing being provided with an internal valve seat, the portion of the bore at the induction side of the valve seat constituting a pressure chamber, a wall of the casing being provided with a port in communication with the bore of the casing outwardly of the internal valve seat, a valve coacting with the internal valve seat, a valve coacting with the port, a link arranged within the casing and operatively supported between its ends, an inwardly directed stem carried by the first named valve and pivotally engaged with an end portion of the link, the opposite end portion of the link being pivotally connected with the second named valve, a stem for the second named valve extending outwardly of the casing through the port, and means exterior of the casing engaged with the stem of the second named valve for operating both of the valves.

1,478,670. VALVE. CHARLES F. MATTINGLY, St. Louis, Mo., assignor to Mattingly Automatic Valve Co., St. Louis, Mo., a Corporation of Missouri. Filed Dec. 14, 1921. Serial No. 522,426. 2 Claims. (Cl. 277—14.)



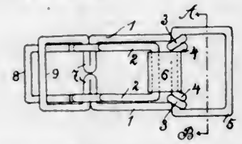
2. A device of the class described comprising a casing having an offset portion providing a chamber, an extension leading from and in communication with said chamber and provided with an internal valve seat, said extension being adapted for communication with a source of fluid under pressure, a member positioned within the chamber, a link supported for swinging movement by said member, a valve coacting with the internal valve seat of the extension, a wall of the chamber having a port in communication with the atmosphere, a valve coacting with the port, operative connections between the link and both of the valves to cause said valves to move in unison but in reverse directions, one of said valves being in opened position when the other is in closed position, and means coacting with the second named valve for manually moving both of the valves.

1,478,671. WIND DEFLECTOR. CHESTER D. MILLER, Los Angeles, Calif. Filed Mar. 21, 1922. Serial No. 545,478. 4 Claims. (Cl. 296—84.)



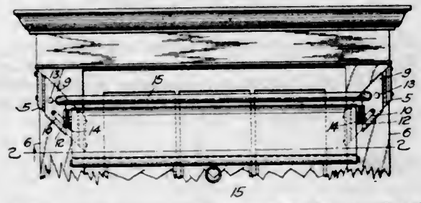
1. In a wind deflector, the combination of a shield member, a holder having spaced parallel portions, a pair of clamps clamped at one end to the shield member and having their opposite ends clamped to one of the parallel portions, and a pair of brackets secured to the other parallel portion of the holder and adapted to be secured to the conventional wind shield, the spacing of the parallel portions of the holder being less than the length of the clamps.

1,478,672. CLOTH HOLDER. JOSEF PABST, Zurich, Switzerland. Filed Jan. 19, 1921. Serial No. 438,500. 4 Claims. (Cl. 24—248.)



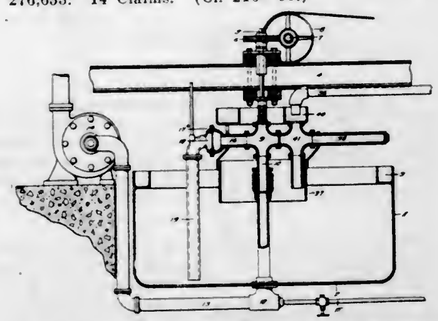
1. In a cloth-holder, the combination, of a lower and a cover part the lower part in the form of an oblong frame, the said lower part at one end being formed with an integral bridge-piece which projects upwardly of the plane of the lower frame and the cover part when in closed position being partially overlapped by the lower part, and a connecting link of which one end is hinged to the cover part and the other end pivotally connected with the aforesaid bridge-piece.

1,478,673. SHADE AND CURTAIN FIXTURE. CANDACE CRABB PARKER, Pueblo, Colo. Filed May 28, 1920. Serial No. 384,883. 5 Claims. (Cl. 156—23.)



2. The combination with a window frame, of guides at opposite sides thereof, converging downwardly in a common plane, carriers slidable on said guides and adapted to conjointly support a shade roller or curtain pole, and means for locking the carriers in adjusted positions on the guides.

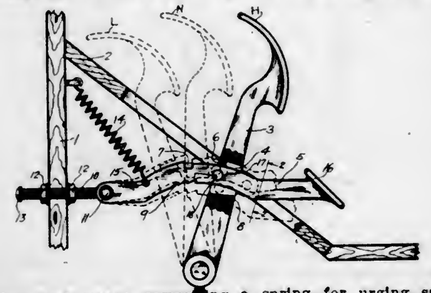
1,478,674. DECANTING MACHINE. EDSON S. PETTIS, Mill Valley, Calif. Filed Feb. 12, 1919. Serial No. 276,653. 14 Claims. (Cl. 210—55.)



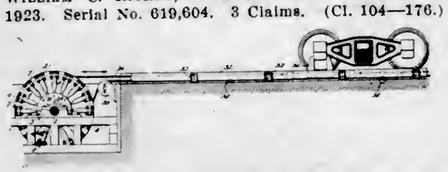
1. The combination with a settling tank, of a rotatable conduit member centrally mounted therein, and an extension conduit member secured thereto, the outer end of said extension conduit being vertically and horizontally movable independently of the centrally mounted conduit.

1,478,675. NEUTRAL AND LOW GEAR LOCK FOR AUTOMOBILES. WILLIAM J. PROSSER, Denver, Colo., assignor of one-fourth to W. L. Wilson and one-fourth to Joseph Baines, both of Denver, Colo. Filed Apr. 17, 1922, Serial No. 554,004. Renewed Nov. 12, 1923. 5 Claims. (Cl. 74—81.)

1. A neutral and low gear locking means for automobile transmission comprising a locking member attached to the dash board and extending rearwardly therefrom a notch therein, a pedal having a projection adapted to engage said notch when the pedal occupies neutral position, and means comprising a spring for urging said projection and said notch into engagement, said notch having its front side higher than the rear side.



1,478,676. RAILWAY-CAR-HANDLING MECHANISM. WILLIAM C. RICHEY, Denver, Colo. Filed Feb. 17, 1923. Serial No. 619,604. 3 Claims. (Cl. 104—176.)



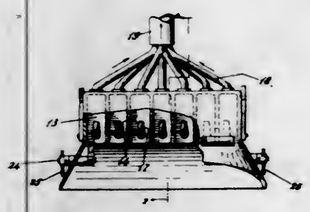
1. In car handling mechanism of the character described, the combination with a pulley, a cable gripping wheel distant from said pulley and a cable which passes over and around said pulley and said gripping wheel; of tracks parallel with the run of said cable, a truck on said tracks having a draw bar to the ends of which the respective ends of said cable are secured and a coupler device slidably mounted on said draw bar centrally of its length and spring cushioned in each direction of its movement, which is adapted to be connected to a car to move the same.

1,478,677. PARACHUTE. EDWIN ROGERS, Aurora, Ill. Filed July 5, 1923. Serial No. 649,417. 2 Claims. (Cl. 244—21.)



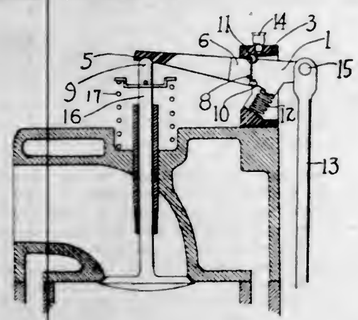
2. In combination with a parachute enclosing envelope and a catch therefor, a hat to be worn by a user of the parachute and its envelope, and a connection between said hat and the catch of the envelope for the purposes set forth.

1,478,678. APPARATUS FOR THE REMOVAL OF SNOW. MARIO SCHIESARI, New York, N. Y. Filed Mar. 6, 1923. Serial No. 623,213. 14 Claims. (Cl. 37—41.)



1. In a device of the class described, the combination with water feeding means, of a plurality of cellular compartments in the path of the water issuing therefrom.

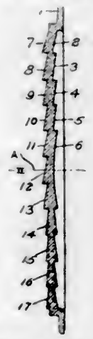
1,478,679. ROCKER ARM. SIDNEY B. SHAW, San Francisco, Calif. Filed Aug. 10, 1921. Serial No. 491,236. 3 Claims. (Cl. 123—90.)



1. In an internal combustion engine having inlet and exhaust valves of the poppet type, rocker arms for the operation of the said valves each consisting of a lever having near its fulcrum projecting bosses with bearing faces which are portions of the curved surface of a cylinder having for its central axis a line passing through the center of the joint of engagement of the extremity of the lever arm with the valve stem, in combination with a supporting cage having plane bearing surfaces for engagement with the curved bearing faces of the bosses on the lever which are affixed parallel to the axis of the valve-stem, together with an anti-friction bearing so disposed between the lever arm and its supporting cage as to serve as a fulcrum for the lever and at the same time permit limited motion of the lever arm in a direction along its own axis, the said lever being maintained in contact with its fulcrum by means of a spring so located opposite the fulcrum that it at the same time exerts a force tending to maintain the curved bearing surfaces of the lever bosses in engagement with the plane bearing faces of the supporting cage, all for the purpose of transmitting rectilinear and co-axial force for the operation of the valves, and substantially as described.

1,478,680. HEADLIGHT GLASS OR LENS. JACOB SODERBERG, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Feb. 8, 1921. Serial No. 443,361. 2 Claims. (Cl. 240—48.4.)

2. In combination in a headlight lens or cover glass for use with a parabolic reflector, a plate of glass provided on one side with a series of complete annular prisms substantially symmetrical throughout their circumference adapted to bend substantially all of the parallel rays from the reflector away from the axis thereof and provided on the other side with a plurality of transversely



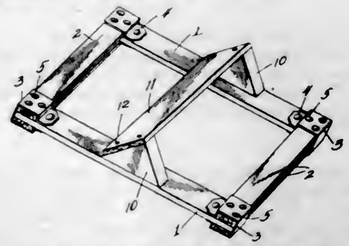
extending prisms adapted to bend the rays downwardly, the angles of those transverse prisms nearest the center being greater than those below the center.

1,478,681. HEADLIGHT GLASS OR LENS. JACOB SODERBERG, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Feb. 8, 1921, Serial No. 443,362. Renewed Nov. 17, 1923. 4 Claims. (Cl. 240—48.4.)



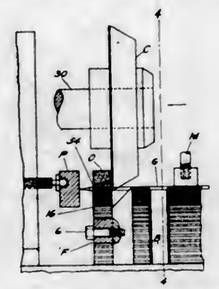
1. In combination in a headlight or cover glass for use with a parabolic reflector, a plate of glass having on one side a series of annular prisms, such prisms being divided into a plurality of horizontal bands with the portions of the prisms in each band tilted about horizontal axes to turn the transmitted rays downwardly.

1,478,682. NONSKID ROOF JACK. MAURICE H. STANSBERRY, Kansas City, Mo. Filed Dec. 27, 1921. Serial No. 524,916. 2 Claims. (Cl. 304—20.)



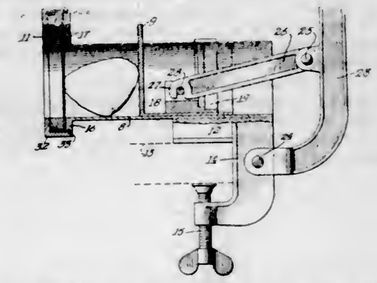
1. In a roof jack, the combination of a pair of resilient longitudinal supports, a pair of transverse supports underlying said longitudinal supports, a series of downwardly projecting spurs adjacent the corners of said jack, and a platform secured to said longitudinal supports and imposing its entire weight thereon at a point substantially equi-distant from said transverse supports.

1,478,683. MACHINE FOR CUTTING THE POINTED ENDS FROM RODS. ROYAL A. STEVENS, Lowell, Mass., assignor to W. H. Bagshaw Co., Inc., Lowell, Mass., a Corporation of Massachusetts. Filed Mar. 14, 1921. Serial No. 452,392. 9 Claims. (Cl. 164—61.)



1. In a machine for cutting the pointed ends from rods, the combination of a feed apron, with a drum having straight, parallel grooves to receive the bodies of the rods and movable upward from said feed apron, with a support having grooves to receive the pointed ends of the rods movable with the body support and having a cutting edge at right angles to the rod axis and facing in the opposite direction to the points, a guide to hold the pointed ends firmly on said point support, a guide to hold the bodies firmly on said drum, and a disk shaped metal shearing member so mounted as to be revoluble, having a cutting edge parallel with and proximate to the cutting edge of said end support.

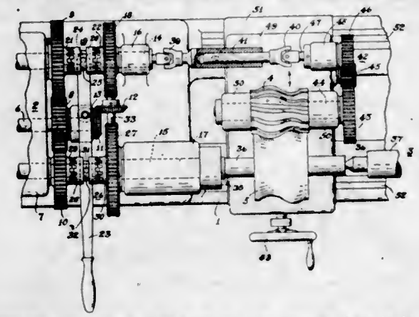
1,478,684. VEGETABLE CUTTER. HENRY O. TAYLOR and JACK DRESDNER, Rockford, Ill. Filed Jan. 25, 1923. Serial No. 614,794. 6 Claims. (Cl. 146—169.)



1. A vegetable cutter comprising a hopper having a feed opening at one end and being entirely open at the opposite end and along its top, cutting means across said feed opening, a presser head shaped in cross section to fit the hopper and having guides which slidably engage the top edges of the hopper and prevent rotation of the head therein, and means for moving the presser head back and forth in the hopper and permitting removal of the presser head from said open end of the hopper.

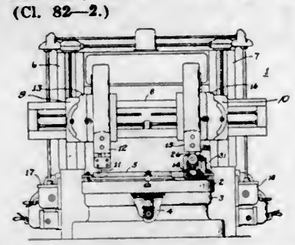
1,478,685. MEANS FOR AND METHOD OF SHAPING BLANKS. SPENCER JAY TELLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed May 3, 1921. Serial No. 466,579. 21 Claims. (Cl. 90—18.)

1. The method of cutting metal, which consists in rotating a blank, in providing a tool having a front cutting face inclined with respect to the axis of the blank, and in slowly moving the tool on an axis parallel to the blank axis and in timed relation to the blank rotation so that a



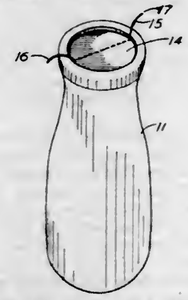
different portion of the edge of the cutting face is in engagement with the blank at each successive rotation thereof.

1,478,686. METAL-CUTTING MACHINE. SPENCER JAY TELLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed May 3, 1921. Serial No. 466,580. 17 Claims. (Cl. 82—2.)



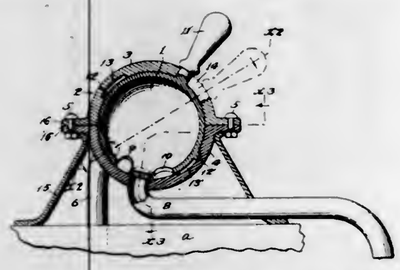
1. In a metal cutting machine, the combination comprising a tool having a helicoidal front cutting face, the outline of the cutting face being such that a predetermined contour is described on an axial plane when the tool is rotated on its helicoidal axis, means for moving a piece of work in engagement with and relative to the tool, the axis of the helicoid on the tool being located in a plane parallel to the plane of movement of the work, and means for effecting a slow movement of rotation of the tool on the axis of the helicoidal cutting face is in a different portion on the edge of the cutting face is in engagement with the work at each successive movement.

1,478,687. BOTTLE CLOSURE. CHARLES L. TURNER, Los Angeles, Calif. Filed Mar. 9, 1922. Serial No. 542,221. 3 Claims. (Cl. 215—51.)



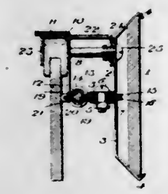
1. A bottle closure comprising: a thin paper cap secured in the neck of a bottle; and a string passing below the cap, and which is not attached in any way to said cap, but is frictionally held at two separated points between said cap and the neck of said bottle.

1,478,688. MULTIPLE SUPPLY VALVE. AUSTIN C. WHIDDEN, Los Angeles, Calif. Filed Aug. 7, 1922. Serial No. 580,131. 4 Claims. (Cl. 251—106.)



1. A valve comprising a spherical mixing chamber, a shell surrounding said chamber, means for revolving the mixing chamber on an axis within said shell, and means for changing the direction of said axis.

1,478,689. ADJUSTABLE MIRROR FOR WINDSHIELDS. DANIEL M. WINANS, Binghamton, N. Y., assignor to The Brewer-Titchener Corporation, Binghamton, N. Y., a Corporation of New York. Filed Dec. 9, 1920. Serial No. 429,372. 2 Claims. (Cl. 45—97.)

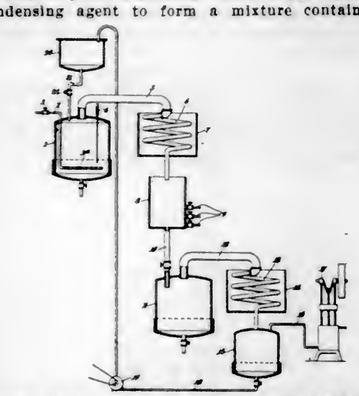


1. In an adjustable mirror for windshields, the combination with a clamp comprising an angled clamp plate having an upright slotted part adapted to be disposed against the inner side of the windshield, and a horizontal flange adapted to overlie the windshield, a horizontally arranged clamp yoke having two flanges, the outer one of which is adapted to engage the outer side of the windshield, said clamp yoke extending through the slotted part of the clamp plate, and a screw carried by the inner flange of said clamp yoke and engaged with the clamp plate, of a mirror holder having an adjustable connection to the upright part of the clamp plate.

1,478,690. PROCESS OF PRODUCING TERPENIC ALCOHOLS. ROLAND L. ANDREAU, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed June 20, 1919. Serial No. 305,609. 19 Claims. (Cl. 260—153.)

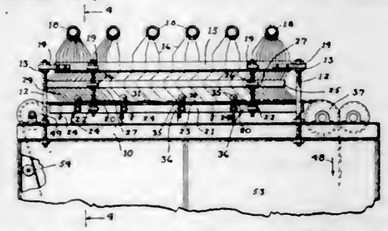
1. The process of producing a terpenic alcohol from impure terpene which comprises treating the impure terpene with a hydrogen halide to form a terpene hydrohalide, treating the resulting mixture with a reagent capable of splitting off hydrogen halide from the terpene hydrohalide to form an isomeric terpene, subjecting the mass to the action of reagents capable of converting said isomeric terpene into the corresponding acyloxydihydroterpene, hydrolyzing the latter in the presence of impurities to form an hydroxydihydroterpene, and then separating the hydroxydihydroterpene from its impurities.

9. The process of producing isoborneol which comprises treating a mixture comprising camphene associated with terpenic impurities with an organic acid and a condensing agent to form a mixture containing an



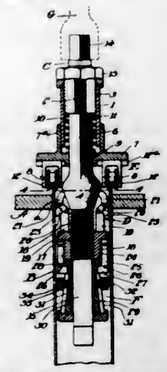
isoborneol ester, saponifying the ester in said mixture to form isoborneol mixed with terpenic impurities, and then separating said terpenic impurities from the isoborneol.

1,478,691. ELECTRIC-DISPLAY-CONTROLLING MECHANISM. GUSTAV F. BAGGE, New York, N. Y. Filed Mar. 16, 1920. Serial No. 366,404. 19 Claims. (Cl. 200—46.)



1. In a continuous sign flashing system having a bank of electric lamps, and electric circuits for said lamps, a plurality of adjustably mounted brushes included in said circuits, and a metallic record tape having raised portions on its surface for controlling said circuits through said brushes.

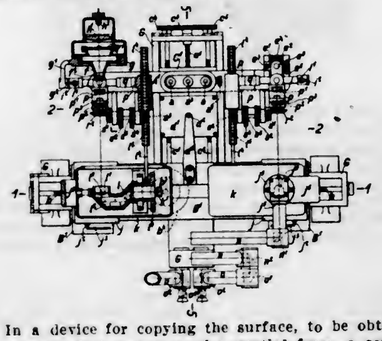
1,478,692. COMBINATION TUBE EXPANDER, BEADER, AND CUTTER. ANDRIAN J. BARANOFF, Los Angeles, Calif. Filed Dec. 1, 1922. Serial No. 604,412. 2 Claims. (Cl. 153—82.)



1. In a device as disclosed, a spindle, an expander mounted on said spindle for expanding the tube when the spindle is rotated and forced into the tube, a beader on said spindle for beading said tube when it is expanded,

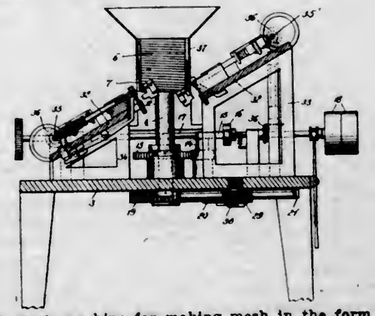
and a cutter including a cone mounted on said spindle to rotate therewith and to move upwardly thereon as the spindle is rotated and forced into the tube, and knives mounted on said cone to be forced outwardly and rotated by said cone when the cone is rotated and moved upwardly by the spindle.

1,478,693. COPYING DEVICE. WALTHER BAUERSFELD, Jena, Germany, assignor to the Firm Carl Zeiss, Jena, Germany. Filed July 18, 1922. Serial No. 575,862. 15 Claims. (Cl. 33—18.)



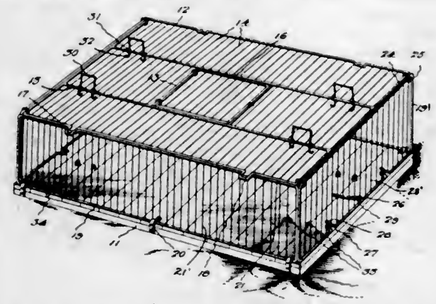
1. In a device for copying the surface, to be obtained from a pair of photograms, of a spatial form, a copying device containing a copy-carrier and a tool which are movable relatively to each other at least within a plane, two photo-carriers, each adapted to carry one of the two photograms and an objective destined to be disposed in the center of projection of the appertaining photogram, a binocular observation system, a mark system, whereby the latter and the pair of photo-carriers are disposed in space displaceably relatively to each other, and means for transmitting the said relative displacement to the copying device in such a way that the mark system is seen by means of the said binocular observation system as coinciding at any one time with those two image-points which correspond on the two photograms to the object-point indicated by the tool-point on the copy-carrier, between each photogram and the mark system a lens system being inserted and means being provided for, adapted to couple the lens system and the mark system in such a way that at least one member of the lens system, dependent upon the distance of the mark system from the objective, appertaining to the respective photogram, undergoes a displacement in the direction of its optical axis.

1,478,694. MACHINE FOR MAKING LINK MESH. RICHARD HATLEY BERKLEY, Plainville, Mass., assignor to Whiting & Davis Company, a Corporation of Massachusetts. Filed Dec. 5, 1921. Serial No. 519,895. 19 Claims. (Cl. 140—3.)



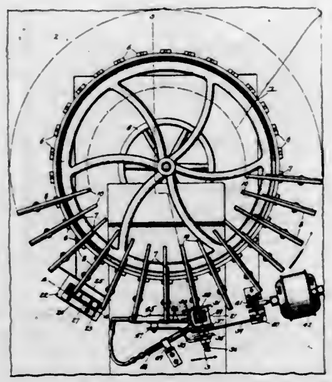
1. A mesh machine for making mesh in the form of a sleeve comprising the combination of a plurality of supporting devices for supporting the piece of mesh, means for varying the positions of said supporting devices relative to one another to adapt the machine for manufacture of sleeves of mesh of different sizes, adjustable means for effecting a step by step feed of the sleeve of mesh about the supporting devices, and link forming tools for forming links and adding them to the piece of mesh on the supporting devices.

1,478,695. POULTRY COOP. GEORGE L. BILBREY, Hermitage Springs, Tenn. Filed Apr. 5, 1921. Serial No. 458,727. 7 Claims. (Cl. 220—6.)



1. A collapsible coop comprising separable top and bottom members, projections extending outwardly from each side of said top member and provided at their outer ends with depending stops, side pieces hinged to each side of the bottom member, each of said members having a plurality of depressions formed in its free longitudinal edge adapted to accommodate the projections of the top in the set up position of the coop, end members hinged to said top member, and means for releasably connecting the end members to the bottom member.

1,478,696. SOLDERING MACHINE. HERMAN O. BOEHME, New York, N. Y. Filed Mar. 23, 1921. Serial No. 454,899. 6 Claims. (Cl. 113—59.)

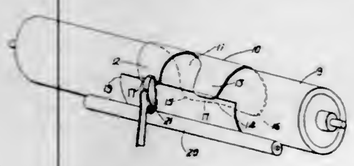


1. A machine for automatically soldering articles together, comprising flux applying means adapted to supply flux to the articles, a soldering device for supplying solder to said articles, gripping means for holding the articles in position relatively to each other and conveying means adapted to receive the gripping means and to carry them to the flux and soldering applying means, and means for heating the articles on their way to the soldering means and during the soldering operation, said gripping means having suitable shape and sufficient heat conductivity to keep those portions of the articles chilled on which no solder is desired.

1,478,697. SELECTIVE FLOTATION OF MINERALS. GILBERT A. BRAGG, Salt Lake City, Utah, assignor to Metals Recovery Company, New York, N. Y., a Corporation of Maine. Filed Jan. 28, 1921. Serial No. 440,759. 11 Claims. (Cl. 83—85.)

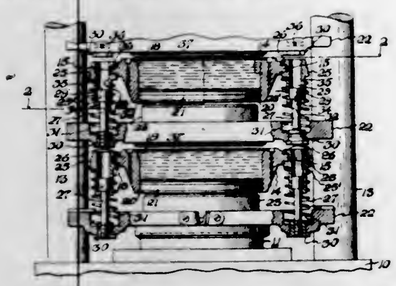
1. The method of effecting the selective flotation of sulfide minerals, which comprises subjecting a slightly alkaline pulp, containing a small amount of a soluble sulfite therein, to a flotation operation.

1,478,698. TYPEWRITING MACHINE. GEORGE W. CAMPBELL, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 27, 1922. Serial No. 532,089. 1 Claim. (Cl. 197—136.)



In a typewriting machine, the combination with a rotary platen, of a card or label holding device of resilient sheet-material curved to conform to the curvature of the platen when the holder is distended, and of such width as to securely clasp the platen by reason of said resiliency: the forward portion of the holder being shaped to provide two spaced fingers, the forward edges of which fingers are offset or undercut, to permit the card or label to be inserted between the same and the platen so as to be held to the platen by the spring action of the holder, and which offsets serve as means for aligning the card or label when the edge thereof is inserted under the same.

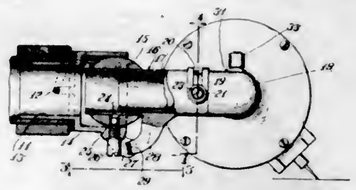
1,478,699. AUTOMATIC PRESS. FRED S. CARVER, East Orange, N. J. Filed Dec. 22, 1920. Serial No. 432,440. 17 Claims. (Cl. 100—50.)



1. In a press, a pot, means for applying pressure to the contents of the pot, and means for automatically closing the pot prior to the application of pressure to its contents.

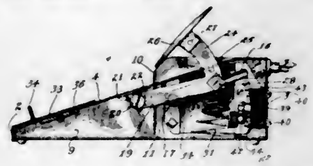
14. In a press, a press piston and a press head opposed thereto, a series of platens slidably mounted between said piston and head, each of said platens being provided with a plunger on its upper side and a closure for a press pot on its lower side, and said platens being also provided on their lower sides with integrally formed runways for supporting press pots therebetween, said plungers being adapted to apply pressure to the contents of the press pots, and springs interposed between said plungers and press pots for yieldably forcing said press pots against the closures located thereabove, prior to application of pressure to the contents of the pot by means of said plungers.

1,478,700. PHONOGRAPH TONE-ARM EXTENSION AND REPRODUCER MOUNTING. THOMAS E. DAVIDSON, Chicago, Ill., assignor to Jewel Phonoparts Company, Chicago, Ill., a Corporation of Illinois. Filed July 9, 1921. Serial No. 483,420. 6 Claims. (Cl. 274—23.)



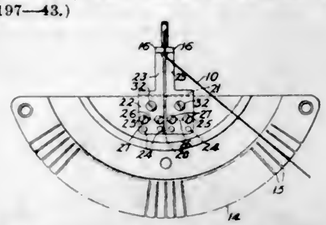
1. Means of the character described, comprising a tone arm engaging member provided with an enlarged orifice, a coupling member provided with a spherical end adapted to enter the enlarged orifice of the first member, and removable means disposed through one side of the first member and into the spherical end of the second member whereby said spherical end is locked in place and oscillatory movement of the coupling member permitted.

1,478,701. CONTROLLER. FREDERICK DIEHL, Elizabeth, N. J., assignor to Diehl Manufacturing Co., Elizabeth, N. J., a Corporation of New Jersey. Filed Feb. 10, 1919, Serial No. 276,085. Renewed May 16, 1923. 12 Claims. (Cl. 219—48.)



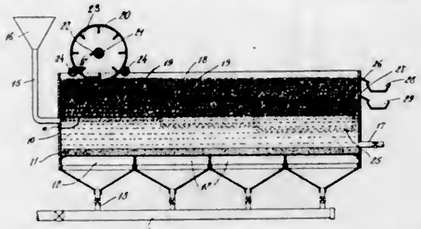
1. A controller comprising a casing formed of two pieces of sheet metal bent and secured together to form a box and a third piece of metal constituting a removable closure for the box, a rheostat enclosed within and supported by said casing, and a pedal standing into said casing and cooperating with said rheostat.

1,478,702. TYPEWRITING MACHINE. JOHN C. DOANE, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 25, 1921. Serial No. 517,453. 9 Claims. (Cl. 197—43.)



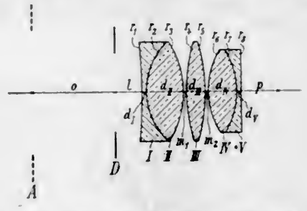
1. In a typewriting machine, a type-segment, and a type-guide comprising a pair of guide-jaws parallel at their rear portions and merging into curved flaring guide-surfaces, and a pair of separate jaw-carrying sections, each arranged to be placed in the machine separately from and independently of the other, and each comprising means for fitting it to the type-segment against rotary or bodily movement, means for bending it when so fitted toward right or left to adjust the jaw carried by it independently of the other jaw and relatively to the machine, and means for securing the bent section to the segment in adjusted position.

1,478,703. APPARATUS FOR THE CONCENTRATION OF ORES. SAMUEL H. DOLBEAR, San Francisco, Calif., assignor to Pneumatic Process Flotation Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 5, 1921. Serial No. 505,465. 8 Claims. (Cl. 83—85.)



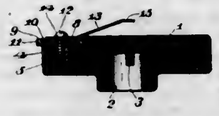
1. An apparatus for the concentration of ores comprising a froth producing chamber, means for causing the froth to flow in a lateral direction, means for distributing ore in a discontinuous body uniformly in the froth, whereby certain particles of the ore are retained in the froth while other particles settle from the froth, means for collecting the froth, means for substantially preventing the settled particles from entering the froth producing chamber, and means for collecting and discharging such settled particles from the apparatus.

1,478,704. OCULAR. HEINRICH ERFLE, Jena, Germany, assignor to the Firm of Carl Zeiss, Jena, Germany. Filed Aug. 13, 1921. Serial No. 492,114. 1 Claim. (Cl. 88—57.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



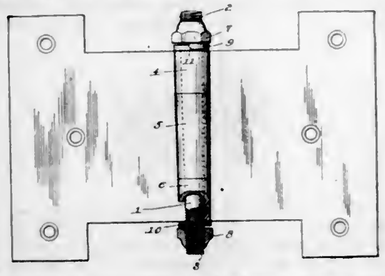
In an ocular comprising two double lenses, each consisting of a collective and of a dispersive member, which are so disposed that the two dispersive members lie outermost, a single collective lens located between the two double lenses.

1,478,705. DISTRIBUTOR AND METHOD OF MAKING THE SAME. WILLIAM A. EVANS, Fort Washington, Pa., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 12, 1920. Serial No. 373,417. 7 Claims. (Cl. 200—19.)



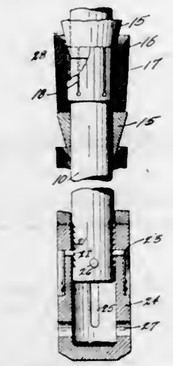
3. Distributor structure comprising a rotatable block of molded material, an insert molded therein with a body portion having its longitudinal axis at approximately predetermined distance from the axis of rotation of the block, said insert having a projecting end whose longitudinal axis is at a predetermined distance from said axis of rotation and independent of said axis of the body portion, a terminal member having a perforation fitting said projecting end, and means for securing said terminal member to said insert.

1,478,706. HINGE PIN. EDWIN L. FORKER, Los Angeles, Calif. Filed Nov. 4, 1922. Serial No. 599,081. 4 Claims. (Cl. 16—168.)



1. A hinge joint comprising interlaced barrel portions having tapered bores and a tapered pin therethrough; said pin being longitudinally positioned with respect to said barrel portions by an axial nut and lock washer.

1,478,707. PUMP PISTON. CHARLES E. FRAZIER, Breckenridge, Tex. Filed Aug. 10, 1922. Serial No. 580,866. 7 Claims. (Cl. 103—225.)



1. In a working valve piston for pumps, a mandrel, a plurality of flexible cups mounted on the mandrel, a plurality of expanding elements mounted on said mandrel, means for expanding the cup interposed between the elements and said cups, and means on the mandrel for fastening the parts in expanded positions.

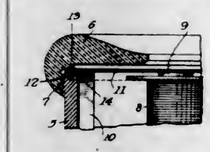
1,478,708. PROCESS OF MANUFACTURING STORAGE BATTERIES. KARL W. GASCHE, Pittsburgh, Pa., assignor to Westinghouse Union Battery Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed July 6, 1920, Serial No. 394,359. Renewed June 26, 1923. 6 Claims. (Cl. 204—29.)

1. The process of manufacturing a storage battery, which consists in applying a lead oxide paste to the plate grids, picking the plates in sulphuric acid until the lead oxides are at least partially converted into lead sulphate, assembling said plates into battery elements comprising positive and negative plates, immersing said elements in sulphuric acid, charging the elements until the lead sulphate is converted into peroxide of lead in the positive plates and spongy lead in the negative plates, and then removing the sulphuric acid.

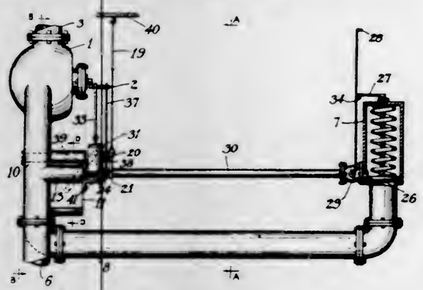
1,478,709. TUNED TELEPHONE RECEIVER. HUGO GERNSBACK, New York, N. Y., assignor to Radio Industries Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 17, 1923. Serial No. 625,702. 4 Claims. (Cl. 179—115.)

1. In telephone receiver, a hollow case, a magnet within the case having a pole piece for actuating the

diaphragm, the edge of the case and the face of the pole piece being finished in substantially the same plane whereby both may be faced off in a single operation, a diaphragm overstanding the edge of the case, a resilient support for the diaphragm interposed between the diaphragm and the edges of the case and a screw cap adjustably engaged with the case over the diaphragm and adapted by its adjustment on the case to compress the resilient support in varying degrees and to thereby adjust the relation of the diaphragm to the pole face of the magnet.

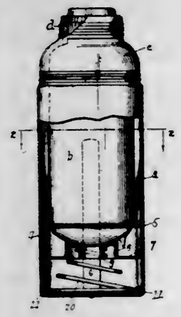


1,478,710. SAFETY THROTTLE. EDWARD B. HARRIS, Portland, Oreg. Filed Jan. 11, 1921. Serial No. 436,489. 3 Claims. (Cl. 137—139.)



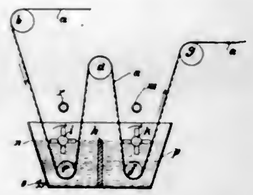
1. In a safety throttle, a valve body having a steam inlet and a double steam outlet, a shock absorber communicating with one of said outlets, an auxiliary valve adapted to close either one of said outlets and normally barring the outlet to the shock absorber, and means to actuate the auxiliary valve, whereby steam is barred from the normally open outlet and sent to the shock absorber.

1,478,711. SHOCK ABSORBER. WILLIAM R. HASTEDT, Norwich, Conn., assignor to American Thermos Bottle Company, Norwich, Conn., a Corporation of Maine. Filed Dec. 21, 1922. Serial No. 608,202. 7 Claims. (Cl. 215—13.)



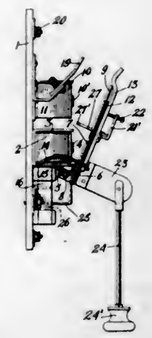
1. A shock absorber comprising a base, a plurality of upwardly extending flexible members, a rigid support slidable on the flexible members and a resilient member interposed between the base and slidable support.

1,478,712. DEVICE FOR CLEANING THE FELT OF PAPER AND CARDBOARD MAKING MACHINES DURING THEIR OPERATION. HEINRICH JOTZEN, Barmen, Germany. Filed Feb. 6, 1923. Serial No. 617,420. 3 Claims. (Cl. 92—50.)



1. In an apparatus for cleaning the felt in paper and cardboard-making machines during their operation, in combination: a container for the cleaning liquid, a paddle wheel mounted in said container and adapted to rotate in the cleaning liquid, a number of guide rollers for guiding the felt to be cleaned through the cleaning liquid, said rollers being partly mounted above said liquid container and partly within the latter and at a lower level than said paddle wheel and being at the same time so arranged with respect to said wheel that the felt is guided at some distance from said paddle wheel around the latter, while facing said wheel with its back side.

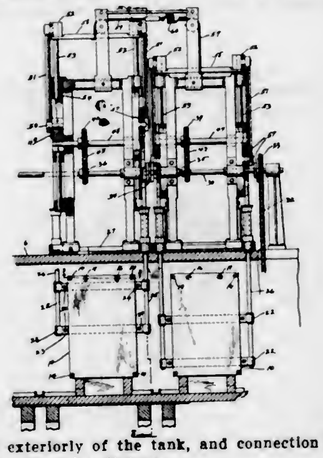
1,478,713. ELECTRIC-MOTOR CONTROLLER. LEONARD KEBLER, Bronxville, N. Y., assignor to Ward Leonard Electric Company, a Corporation of New York. Filed Apr. 1, 1920. Serial No. 370,393. 2 Claims. (Cl. 172—288.)



1. In an electric motor controller, a main switch, a starting resistance, a magnet for holding said main switch in closed position, a switch for normally short-circuiting said resistance, a manually movable device whereby said second named switch may be manually opened and the main switch manually closed, and electromagnetic means for automatically causing the closure of said second named switch to short-circuit said resistance when the motor attains proper speed, and means controlled by the movement of said device whereby the main switch may be manually opened.

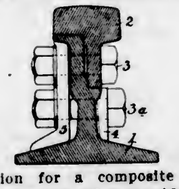
1,478,714. LIQUID-TREATING APPARATUS. CLARENCE P. LANDRETH, Philadelphia, Pa. Filed Aug. 7, 1922. Serial No. 579,998. 33 Claims. (Cl. 204—25.)

1. A treating apparatus comprising a tank, a plurality of groups of electrodes mounted therein, a plurality of groups of agitating members respectively co-operating with the groups of electrodes, a driving unit



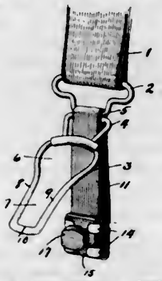
mounted exteriorly of the tank, and connection between the said unit and agitators.

1,478,715. COMPOSITE T RAIL. HERBERT M. LOFTON, Chattanooga, Tenn. Filed May 24, 1921. Serial No. 472,086. 5 Claims. (Cl. 238—144.)



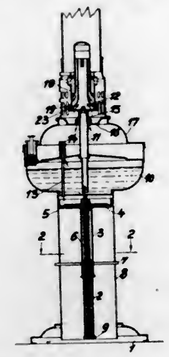
5. A base section for a composite rail having an upright longitudinal web portion provided at the bottom with opposite foot flanges and at the top with a lateral shallow flange portion wholly to one side and presenting a horizontal upper surface, and further having the other side of the web provided with a longitudinal shoulder at a considerable distance below the top of the web portion and sharply projecting laterally beyond the surface of the web and forming a longitudinal flat upper surface, and the web provided with transverse holes spaced apart along the length of the base section, part of which are above and part below the laterally projecting shoulder.

1,478,716. GARMENT SUPPORTER. LOUIS B. LOVEJOY, Bridgeport, Conn., assignor to The Warner Brothers Company, Inc., Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 30, 1923. Serial No. 635,462. 4 Claims. (Cl. 24—245.1.)



1. In a garment supporter a button-supporting tab, a button, a base plate and ears on the base plate for clamping the button and the end of the tab to the base plate.

1,478,717. VAPOR LAMP, ESPECIALLY HYDROCARBON INCANDESCENCE LAMP. PAUL LUCAS, Berlin-Friedenau, Germany. Filed May 10, 1922. Serial No. 559,821. 5 Claims. (Cl. 67—39.)

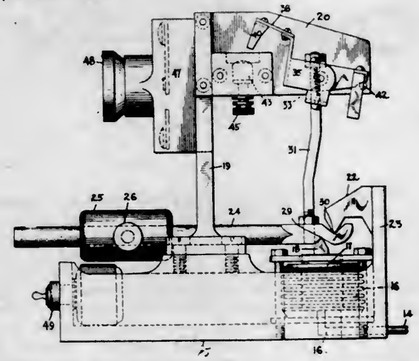


1. In a vapor-lamp, especially a hydrocarbon incandescence lamp, the combination with a closed fuel-basin, a burner over it, and a gasifier between the basin and the burner, of an air-cylinder with a piston located below said basin, and moving upwards when forcing air into said basin, and rigid means for actuating the piston from the outside of the cylinder and projecting through slots thereof, as set forth.

1,478,718. METHOD OF CUTTING NARROW STRIPS FROM A ROLLER OF CELLULOSE MATERIAL. ADOLF SCHEUFELEN and FRITZ SCHUMACHER, Oberlenningen-Teck, Germany, assignors to the Firm Erste Deutsche Kunstdruck-Papierfabrik Carl Scheufelen, Oberlenningen-Teck, Germany. Filed May 12, 1921. Serial No. 468,964. 1 Claim. (Cl. 92—39.)

The method herein described which consists in partially drying a whole sheet of cellulose material, leaving therein the required amount of moisture, then rolling up the said sheet and finally cutting the rolled up sheets into narrow strips.

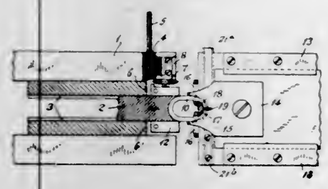
1,478,719. THERMOSTATIC SWITCH. HAZOR J. SMITH, Chicago, Ill., assignor, by direct and mesne assignments, of one-fourth to Willard Reid and one-half to Alfred Hastings Chapin, both of Springfield, Mass. Filed July 10, 1920. Serial No. 395,424. 1 Claim. (Cl. 200—140.)



In a thermostatic switch of the type described, the combination of a thermal element containing an expansive gas, a balanced lever actuated by a change of pressure within the thermal element, and mounted for vertical and arcuate movement, a plate (32) adjustably carried at the upper end thereof, a spring (33) depending

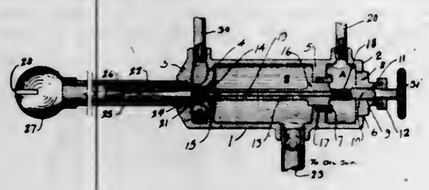
from said plate and attached to a bent extension (34) of a pivoted trip (35), said trip carrying contacts adapted to cooperate with mercury cups to make and break an electrical circuit.

1,478,720. PROCESS OF MAKING ARTICLES HAVING CONNECTED LINKS. JOHANN MARTIN WEBER, Frankfort-on-the-Main, Germany, assignor to Ernst Gideon Beck, Pforzheim, Germany. Filed Aug. 23, 1921. Serial No. 494,551. 6 Claims. (Cl. 113—112.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In the process of forming articles having connected links, the steps which consist in bending the ends of a metal blank toward each other, positioning an exceedingly thin piece of solder between said bent ends so that said piece of solder occupies substantially all of the cross-sectional space between said ends, closing the ends of the blank upon the solder so that a capillary space is formed between the ends of said blank, the said ends constituting the sole retaining means for the solder, causing the solder to become fluid in the capillary space whereby, by reason of the previous confinement of the solder in said space, the fluid solder is retained properly positioned in said space and finally causing the solder thus positioned to assume its final set.

1,478,721. OIL BURNER. DE WITT C. WHATLEY, Lihue, Territory of Hawaii. Filed July 11, 1922. Serial No. 574,147. 2 Claims. (Cl. 158—75.)



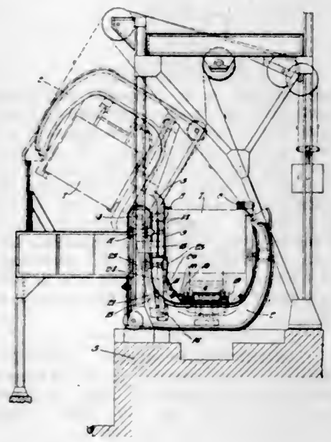
1. An oil burner having a central chamber adapted to receive oil, means connecting said chamber to a source of oil supply, means for producing a partial vacuum in said chamber whereby oil is caused to flow thereinto, a steam chamber at each end of said central chamber, means for conducting steam into said last named chamber, a tubular valve member extending from one steam chamber through the central chamber, and provided with means cooperating with an opening in the wall between the central chamber and the second steam chamber, whereby the opening may be closed or opened, a Venturi tube secured to said wall, a nozzle secured to said tubular valve member and extending into one end of said venturi, a tube surrounding said Venturi tube concentric therewith and spaced therefrom, whereby an annular passage is formed between said tubes, said passage being connected to one of the steam chambers, and means for controlling said tubular valve.

1,478,722. ANATOMICAL ARTICULATOR. IRA ROLLINS WHEELER, Brockton, Mass. Filed Dec. 7, 1922. Serial No. 605,343. 7 Claims. (Cl. 32—1.)



1. An anatomical dental articulator comprising an upper jaw and a lower jaw, resilient means positioned intermediate said jaws and interconnecting same forming the sole supporting means for said jaws whereby freedom of movement of the jaws in several directions is secured.

1,478,723. CAR-DUMPING APPARATUS. PAUL D. WRIGHT, Edgewood Park, Pa. Filed Mar. 16, 1923. Serial No. 625,590. 4 Claims. (Cl. 214—52.)



1. In a dumping apparatus a cradle adapted to swing a loaded car into substantially inverted position, a side apron member mounted along the dumping side of said cradle and movable transversely toward and away from said car, a bottom apron secured to said cradle, and a bridging apron hingedly secured to said bottom apron and having its upper edge loosely supported on and overlapping said side apron.

1,478,724. PISTON-RING HOLDER. CHARLES BARCHUS, Natchez, Miss. Filed Dec. 31, 1921. Serial No. 526,303. 9 Claims. (Cl. 29—86.4.)

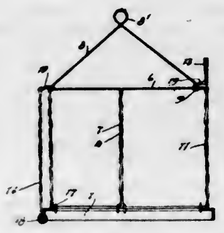
1. A ring attaching device comprising a casing, a feed member arranged therein, a flexible band having its

ends secured to said feed member and having its intermediate portion extended beyond the casing to form a



ring engaging loop, and an arcuate spring connected to said casing and received within said loop.

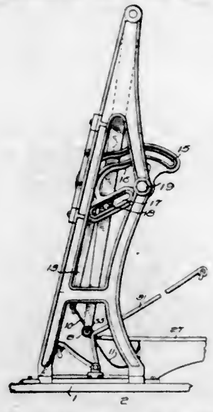
1,478,725. CHILD'S COT. PHILIP BARNEY, Tecumseh, Ontario, Canada. Filed Jan. 7, 1922. Serial No. 527,743. 3 Claims. (Cl. 5—101.)



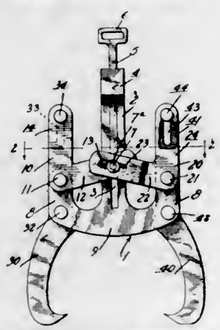
1. An end frame for cots formed of two pieces of wire, each shaped to provide outer and intermediate vertical members, an upper horizontal member connecting the upper extremities of the intermediate member and one of said outer members and a lower horizontal member connecting the lower extremities of the intermediate member and the remaining outer member, the two pieces thus formed being assembled by twisting the vertical members thereof together with the horizontal members of one piece opposing the horizontal members of the other piece so as to form, with the vertical members, a plurality of open squares, an outer vertical member of one piece being extended upwardly above the frame thus formed and then downwardly to provide a suspension loop, the free extremities of the extended portion, after forming the loop being secured to the top of the frame.

1,478,726. ATTACHMENT FOR CIGAR-BUNCHING MACHINES. CYRIL A. BOUCHER, Joplin, Mo. Filed July 8, 1921. Serial No. 483,123. 6 Claims. (Cl. 131—39.)

5. A device for firmly holding cigar binders during the bunching operation comprising a rod arranged on the bed plate of a bunching machine, and a pivoted spaced rod arranged over said bed plate and cooperating with said first mentioned rod to securely hold the binder as it is being stretched around the filler and torn off adjacent the inner edge of said spaced rod.

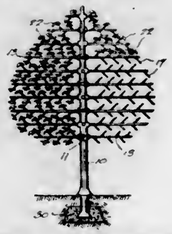


1,478,727. SAFETY GRAB HOOK. ADAM BROSIOUS, Sunbury, Pa. Filed Mar. 12, 1923. Serial No. 624,576. 3 Claims. (Cl. 294—115.)



1. A safety grab hook comprising a body member, gripping jaws fulcrumed on said body in spaced relation, bell cranks fulcrumed on said body above the fulcrums of said jaws and having the free end of one arm connected with said jaws, and means connected with the other arm of said bell cranks operable by a pull exerted thereon to close said jaws.

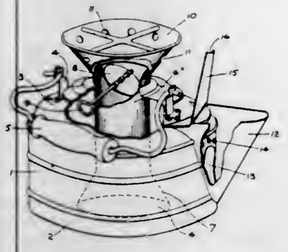
1,478,728. ARTIFICIAL TREE. DALTON E. BROWN, Lancaster, Ohio. Filed June 27, 1923. Serial No. 648,082. 6 Claims. (Cl. 41—15.)



1. An ornamental artificial tree including a trunk having a plurality of threaded sockets staggered thereabout, a plurality of limbs each having in its length

threaded sockets staggered therearound and each having a reduced threaded extension at one end to screw into one of the threaded sockets of the trunk, a series of branches each having a reduced threaded extension at one end to screw into one of the sockets of the limbs, and a plurality of leaf twigs adjustable along the branches.

1,478,729. KETTLE. JOHN HILTON BROWN, Vancouver, British Columbia, Canada, assignor to Charles Hadaway, Vancouver, British Columbia, Canada. Filed Aug. 17, 1922. Serial No. 582,441. 1 Claim. (Cl. 53—9.)



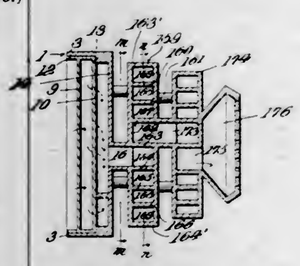
A kitchen utensil comprising a container provided with an internal flue rising from the bottom to a point above the top of the container, a damper plate pivotally mounted in the flue at a point immediately above the top of the container, an inverted frusto-conical supporting shell fixed to the upper end of the flue exteriorly of the container, said supporting shell being provided with lateral apertures for the escape of the heated air rising through the flue and a receptacle supporting grid fixed in the upper end of said shell.

1,478,730. SPECIAL CARBON BLACK. ROY H. BROWNLEE and ROY H. UHLINGER, Pittsburgh, Pa. Filed Mar. 9, 1922. Serial No. 542,463. 15 Claims. (Cl. 134—60.)

134—60.)

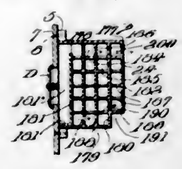
15. A special carbon black of thermal production presenting the distinguishing characteristics that it is gray in color, of a non-flocculent nature, and weighs when uncompressed from twenty-five to thirty-five pounds per cubic foot.

1,478,731. AIR-PREHEATING DEVICE FOR FURNACES. HERBERT R. BRUNNER, New York, N. Y., assignor, by mesne assignments, to Van Kannel Revolving Door Company, New York, N. Y., a Corporation of New Jersey. Original application filed Oct. 7, 1915, Serial No. 54,631. Divided and this application filed Dec. 12, 1919. Serial No. 344,341. 6 Claims. (Cl. 110—175.)



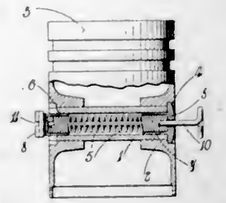
1. An air preheating device for furnaces and the like, comprising an intake chamber and a heating chamber having a connecting passage, the heating chamber enclosing compartments provided with partitions defining in each compartment a continuous air channel leading in a general direction from the center toward the periphery of the chamber, and including a plurality of sharp reversals by which air is caused to move repeatedly in opposite directions in adjacent parts of the channel in its course from one end of the channel to the other, the chambers and channels having axial connections by which air is caused to circulate outwardly in one of the compartments and inwardly in another one of the compartments of the heating chamber.

1,478,732. AIR-PREHEATING DEVICE FOR FURNACES AND THE LIKE. HERBERT R. BRUNNER, New York, N. Y., assignor, by mesne assignments, to Van Kannel Revolving Door Company, New York, N. Y., a Corporation of New Jersey. Original application filed Oct. 7, 1915, Serial No. 54,631. Divided and this application filed Dec. 12, 1919. Serial No. 344,342. 1 Claim. (Cl. 110—175.)



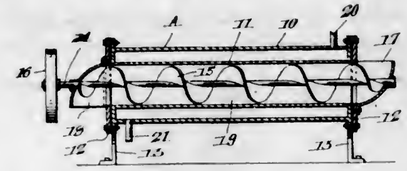
In a preheater for stoves and furnaces, the combination of a substantially box-shaped casting having an open front, a detachable front partition located in the front portion of the structure, the rear portion of the structure being provided with horizontal and vertical flanges provided with communicating openings defining a long tortuous heating passage of relatively small cross section, in which air in adjacent branches of the passage moves in opposite directions, the compartment constituting the terminal part of the passage being located at the rear of the structure and being provided with a plurality of discharge nozzles in the rear wall, the lower rear portion of the structure being recessed to remove it from proximity to the fire, the communicating aperture in the rearmost inner vertical partition being located above the level of the communicating aperture in the front fixed vertical partition.

1,478,733. PISTON FOR INTERNAL-COMBUSTION AND OTHER ENGINES. WALTER THOMAS CAVE, Redditch, England, assignor of two-thirds to Frank Edward Baker, Birmingham, Warwick, England. Filed Apr. 26, 1923. Serial No. 634,829. 13 Claims. (Cl. 74—108.)



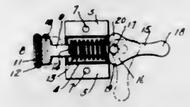
13. A gudgeon pin mounting for pistons of internal combustion engines comprising two flanged members adapted to fit one at each end of the gudgeon pin, an extensible member connecting the said flanged members to prevent axial movement of the gudgeon pin, and means for retaining one of said flanged members in engagement with said extensible member, said retaining means becoming inoperative when said flanged member is moved endwise by extending the extensible member.

1,478,734. WHEAT TEMPERER. EDWARD JOHN COMPTON, Kazubazua, Quebec, Canada, assignor of one-third to Andrew Pritchard and one-third to Joseph Noel, both of Kazubazua, Quebec, Canada. Filed May 5, 1922. Serial No. 558,714. 1 Claim. (Cl. 83—27.)



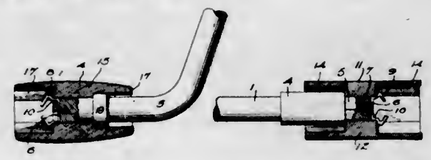
A drum formed with an inner casing and an outer casing in spaced relationship to the inner casing, supporting standards formed integral with the drum, openings in the end of the drum registering with the inner casing, a damping hopper at one end and a discharge hopper at the opposite end of the drum and a concentric ring and packing means between the hopper and the drum ends designed to form a watertight joint, a shaft journalled in said hoppers and extending through the inner casing, screw conveyor means on said shaft and driving pulley means carried by the shaft and steam intake and discharge means for the outer casing.

1,478,735. WINDOW FASTENER. WINCANTY CZAPKOWSKY, Hartford, Conn. Filed May 25, 1921, Serial No. 472,607. Renewed Sept. 17, 1923. 1 Claim. (Cl. 292—169.)



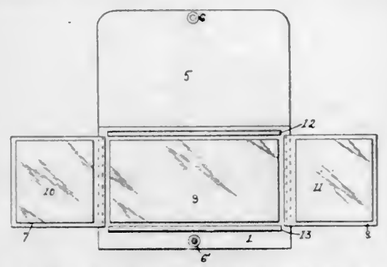
A window fastener comprising a casing closed on the top, sides and ends and open on the bottom, the sides having outwardly extending flanges, a shank extending entirely through the ends of the casing, a coiled spring surrounding the shank, the shank having a lug to be engaged by the forward end of the spring, the back end of the spring engaging the rear wall of the casing, the shank having a foot provided with a lateral flange, a soft wrapping around the flange, and an actuator pivoted to the rear end of the shank, for rocking movement, and having opposite symmetrical and duplicate cam portions, at opposite sides of the pivot to act alternately against the casing to draw back the shank when the actuator is oppositely rocked.

1,478,736. SOCKET WRENCH. JOHN O. GADBERRY, Joplin, Mo. Filed Aug. 10, 1922. Serial No. 580,941. 2 Claims. (Cl. 81—121.)



1. A socket wrench comprising a handle having a reduced squared end, a socket member having a reduced squared opening for the reception of the reduced end of the handle, and a resilient member having its intermediate portion arranged on the squared end of the handle, said member being extended laterally from said intermediate portion beyond the sides of the squared portion of the handle, and being then extended outwardly.

1,478,737. HAND BAG. MAURICE GOLDSMITH, New York, N. Y. Filed Apr. 5, 1921. Serial No. 458,723. 2 Claims. (Cl. 150—34.)

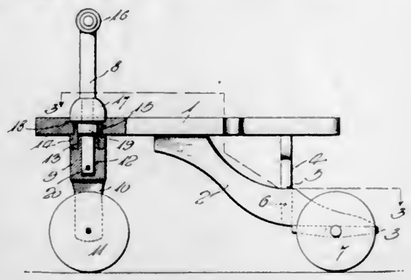


1. A hand bag comprising a front, a back and a body, the back being extended over the front forming a cover flap, means for securing the free end of the flap to the front, extension flaps on either side of the front and foldable thereon and mirrors on the front and each of said extension flaps and protecting strips on the front above and below the mirror thereon and extending above the plane of the mirrors and flaps when folded.

1,478,738. WELDING ELECTRODE. CLAUDE J. HOLSLAG, South Orange, N. J., assignor to Electric Arc Cutting & Welding Company, Newark, N. J. Filed May 22, 1922. Serial No. 562,818. 13 Claims. (Cl.

1. A welding electrode comprising an alloy of steel containing nickel and chromium, the latter, in such proportion as to prevent cracking of the deposited metal on cooling.

1,478,739. TOY VEHICLE. FRANK HORNQUIST, Mount Jewett, Pa., assignor to The Climax Heel Company, Incorporated, Mount Jewett, Pa. Filed June 6, 1921, Serial No. 475,495. Renewed Apr. 6, 1923. 2 Claims. (Cl. 280—87.5.)

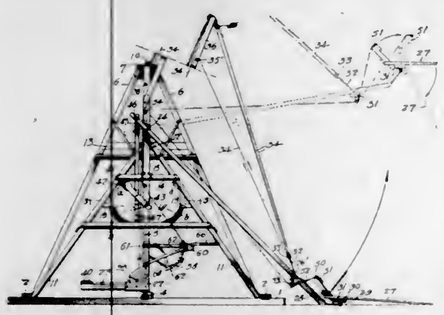


1. A steerable toy vehicle comprising a platform, supporting bars secured to the under face of the platform and extending downwardly and rearwardly therefrom, a transversely extending bolster secured to the under face of the rear end portion of said platform and supported upon said bars and having its lower portion extending between and secured to said bars, a step secured to and extending below the rear end portions of said bars and with a surface between the bars, and rotatable ground engaging supporting means for the rear portion of said vehicle.

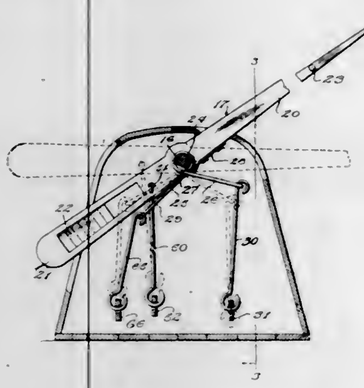
1,478,740. HAYSTACKER. WILLIAM CAROL HUDSON, Keating, Oreg. Filed Aug. 28, 1922. Serial No. 584,820. 5 Claims. (Cl. 214—132.)

1. In a hay stacker, the combination with a vertical revoluble mast, of a substantially U-shaped strip of metal, constituting a cam-track, fixed relative to the

mast, an arm pivotally secured to said mast and carrying a roller moving on said cam-track, a hay-fork supporting carriage pivotally secured to said mast, and a connection between said supporting carriage and said arm.



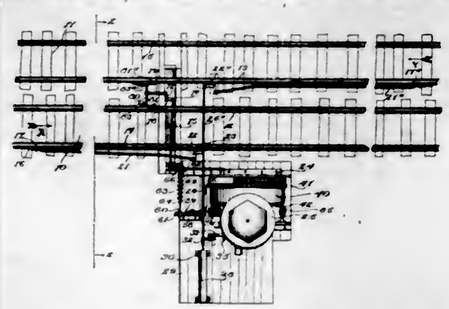
1,478,741. RAILWAY GATE. CARL G. HUTH, Port Byron, N. Y. Filed Sept. 1, 1922. Serial No. 585,712. 4 Claims. (Cl. 244—293.)



1. A railway gate comprising a boom, a standard therefor, a horizontal journal in said standard, said boom having a long arm and a short arm balanced substantially around the axis of the journal and means for swinging the boom in a vertical plane actuated by a passing vehicle wheel, said means including treadles fulcrumed on a wheel track and having a toe normally projecting above the same, springs secured with one end to the long and short arms of said boom respectively and the intermediary portion of each spring coiled around said journal and suitable connection between said treadle and said springs.

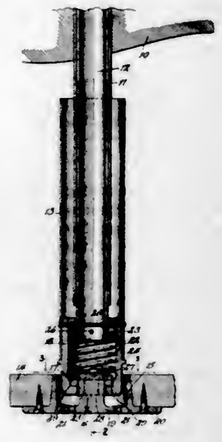
1,478,742. AUDIBLE SIGNAL FOR RAILWAYS. CARL G. HUTH, Port Byron, N. Y. Filed Sept. 1, 1922. Serial No. 585,713. 6 Claims. (Cl. 246—262.)

1. The combination with a wheel track; of a housing carrying a bell, a striker for the bell mounted in said housing, a power driven pin wheel in the housing adapted to actuate said striker, a brake for said pin wheel, including a dog adapted to slide in and out of engagement with the pins on said wheel, a treadle normally raised above said track, suitable connections be-



tween said treadle and said dog, said treadle being adapted to be depressed by a passing vehicle wheel, thereby releasing the brake.

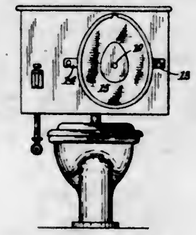
1,478,743. ATTACHMENT FOR CARROUSELS. KARL FRIDRICH WILHELM JAENECKE, North Tonawanda, N. Y., assignor to Spillman Engineering Corporation, North Tonawanda, N. Y., a Corporation of New York. Filed Jan. 26, 1921. Serial No. 439,997. 8 Claims. (Cl. 46—27.)



8. A coupling for connecting the seat carrier of a carrousel with the platform thereof, comprising an upright post adapted to be carried by the platform and having a transverse locking pin, a hollow coupling member adapted to be slidably and rotatably mounted on the seat-carrier and constructed to normally enclose said post and its pin, the bottom of said hollow coupling member having radial locking recesses arranged to receive said pin, to interlock the parts of the coupling, and releasing slots arranged to register with said pin to disconnect said parts, and means for yieldingly holding said hollow coupling member in its locked position.

1,478,744. HOLDING AND SERVING DEVICE FOR TOILET-SEAT COVERINGS. JAMES E. JONES, Washington, D. C. Filed Sept. 7, 1922. Serial No. 586,580. 5 Claims. (Cl. 4—244.)

1. The combination in a holding and serving device of a hollow container with a vertical wall, for receiving sheets of paper, said container being substantially open at one side; a movable pressure plate within the container; spring means for pressing the said plate towards the open side; means at the edge of the vertical wall to hold layers of paper parallel with the pressure plate



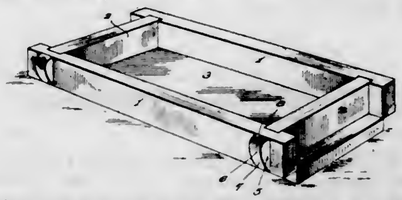
and within the container; and means for moving the pressure plate downwardly and loosening the sheets of paper above the plate so one sheet may be withdrawn.

1,478,745. STENCIL AND METHOD OF MAKING AND USING THE SAME. HUXLEY D. KEM, Portland, Oreg. Filed Feb. 14, 1921. Serial No. 444,851. 5 Claims. (Cl. 101—127.)



1. A stencil for use in applying paint comprising, with a screen through which the paint is applied, a cutout stencil sheet impregnable to paint secured temporarily on the face thereof with wet paint as the securing adhesive.

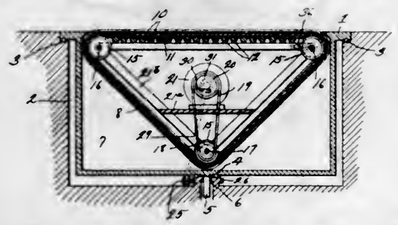
1,478,746. FIRE-BRICK MOLD. ROBERT L. KINTON, Meyersdale, and AMOS F. HIBNER, Connellsville, Pa. Filed Dec. 19, 1922. Serial No. 607,891. 3 Claims. (Cl. 25—119.)



1. A mold comprising a bottom and encompassing walls and entirely open at its top to permit of unrestricted discharge of the molded product when the mold is completly inverted, the mold being provided upon one of its said walls with spaced rockers to engage a surface upon which the mold is to be overturned, the said rockers having arcuate tread surfaces, the tread surface of each rocker, at one end, terminating substantially at the normally

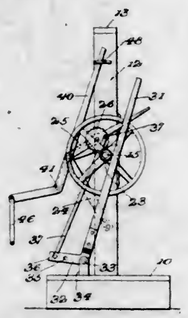
lower edge of the wall upon which the rocker is provided and at its other end merging substantially with the normally upper edge of said wall, the said tread surface of the rocker throughout its length describing a substantially cycloidal curve the higher portion of which is nearer the open top than the bottom of the mold.

1,478,747. AIRPLANE STARTING AND LANDING DEVICE. FLOYD H. KINYOUN, Omaha, Nebr. Filed June 14, 1923. Serial No. 645,291. 2 Claims. (Cl. 244—2.)



1. An airplane starting and landing device, said device comprising a turn table, said turn table being mounted on bearings within a pit, a triangularly arranged endless belt carried by said turn table and having a horizontal portion thereof substantially flush with the upper side of the turn table, the opposite edges of said endless belt being slidably mounted in triangular shaped channels, transversely disposed shafts, spaced pulleys carried by said shafts, transversely disposed supporting rollers engaging the under side of the endless belt, means whereby said turn table may be rotated to various positions, means for rotating one of the transversely disposed shafts for imparting movement to the endless belt, said turntable rotating means and shaft rotating means being from the same source of power.

1,478,748. CHURN. JOSEPH A. LAWRENCE, Lindsay, Okla. Filed May 25, 1922. Serial No. 563,592. 3 Claims. (Cl. 74—14.)

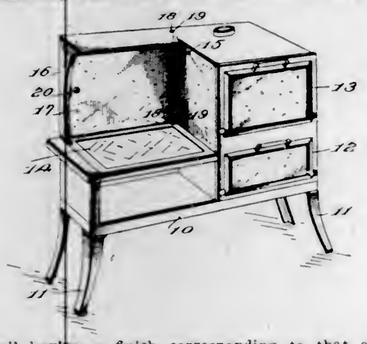


1. In a churn, a rotatable shaft, an element actuated thereby, a fly wheel fixed to said shaft, a pinion keyed to said shaft, a driving gear selectively engageable with and disengageable from the pinion, and a plurality of levers adapted to be selectively utilized to actuate the driving gear wheel, the fly wheel being adapted to serve as a driven gear when the driving gear is disengaged from the pinion.

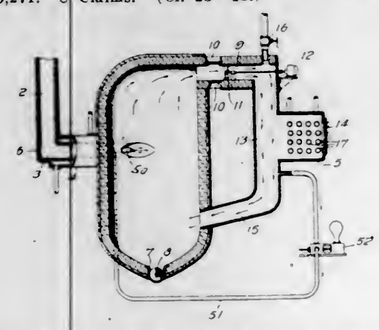
1,478,749. ATTACHMENT FOR GAS RANGES. MARTIN W. LONGFELLOW, Baltimore, Md., assignor to The Baltimore Gas Appliance & Manufacturing Company, a Corporation of Maryland. Filed June 8, 1921. Serial No. 475,962. 1 Claim. (Cl. 126—39.)

The combination with a gas range having a cooking space and intersecting walls contiguous thereto having exposed surfaces of different finish, of a supplemental

protector wall mounted to swing over said cooking space to selectively cover the outer face of either of the first mentioned walls, said protector wall having one surface provided with a finish corresponding to that of one of the first mentioned walls and the other surface of the protector wall having a finish corresponding to that of the other intersecting wall, and means for maintaining said supplemental wall in a normal position covering one of said intersecting walls, whereby the exposed surface of said supplemental wall and the other intersecting wall are provided with the same finish.

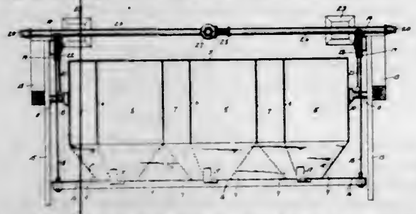


1,478,750. PROCESS OF AND APPARATUS FOR CONDENSATION. KARL P. MCELROY, Washington, D. C., assignor to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Texas. Filed Feb. 9, 1922. Serial No. 535,271. 8 Claims. (Cl. 23—13.)



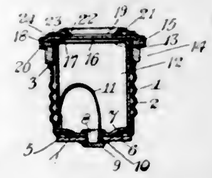
1. In the condensation of solids from hot vapors the process which comprises transmitting a current of said vapors laterally into a body of cold gases in slow upward movement.

1,478,751. BATCH-MEASURING HOPPER. GEORGE H. MACLEAN, New Haven, Conn. Filed Apr. 4, 1923. Serial No. 629,949. 3 Claims. (Cl. 214—38.)



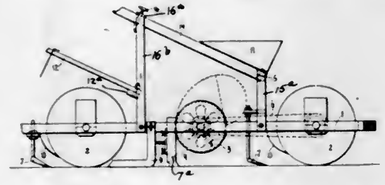
1. A batch-measurnig hopper, comprising a hopper having a plurality of compartments, each divided into chambers, said chambers having a common discharge-mouth, a hinged gate adapted to close said mouths, said hopper pivotally mounted in a frame, cables connected with said hopper and with said gate, a counter-balanced bar with which said cables are connected, and hydraulic checks for the upward movement of the said bar.

1,478,752. ELECTRICAL FUSE PLUG. CHARLES STANLEY MALLETT, OSCAR EDMUND FORREST, and DAVID MONIE, Toronto, Ontario, Canada, assignors to The Canadian General Electric Co. Ltd., Toronto, Ontario, Canada, a Corporation of Dominion of Canada. Filed Sept. 17, 1921. Serial No. 501,433. 11 Claims. (Cl. 200—130.)



1. In a fuse plug, a shell having a central opening in the bottom, a disc secured to the bottom of the shell, a groove formed in the shell bottom forming together with the closure a continuous chamber about the centre of the plug.

1,478,753. SOWING MACHINE. ADRIAAN CORNELIS POLMAN MOOIJ, Heemstede, Netherlands. Filed Jan. 17, 1920. Serial No. 352,211. 2 Claims. (Cl. 221—135.)



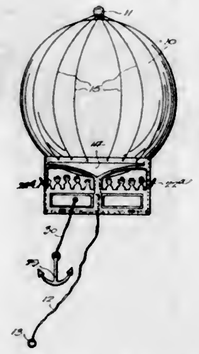
1. The combination of a seed receptacle having a semi-cylindrical wall and a feed wheel having pockets in its outer periphery cooperating with the wall to raise seeds to the top of the wall, the pockets being so shaped that when the seed is carried above the wall, the seeds will drop out, the said feed wheel cut away along the outer periphery in front of the pockets to permit seeds to accumulate in front of the pockets.

1,478,754. DISPENSING DEVICE. JAMES ERASTICE MOORE, Chanute, Kans. Filed June 6, 1922. Serial No. 566,268. 1 Claim. (Cl. 221—28.)



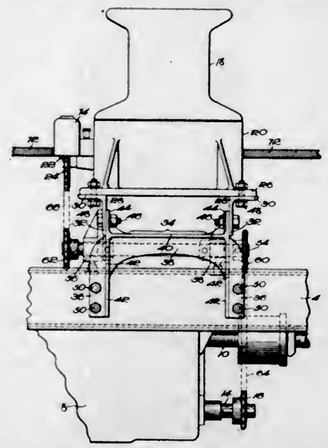
A dispensing device comprising a member arranged to receive liquid from a container, a vent tube attached thereto and extending from the mouth thereof and arranged to be inserted into a container, a valve associated with the inner portion of said tube arranged to control emission of air therefrom, guides on the inner portion of said tube, a bridle slidable in said guides and connected with said valve, a spring associated with said bridle arranged to keep said valve normally closed, an operating member mounted on said receiving member, and a member connecting said operating member with said valve.

1,478,755. TOY BALLOON. JAMES F. MULHOLLAND, Columbus, Ohio. Filed Jan. 11, 1923. Serial No. 612,125. 5 Claims. (Cl. 46—37.)



1. A toy balloon including a spherical inflated bag, a car or basket consisting of a strip of material bent into circular form and open at its upper end to receive a portion of the bag therein, means extending around the bag and engaging the upper edge of the basket to hold the balloon in place, and a disk detachably mounted within the lower portion of the car or basket forming the base thereof and cooperating with the balloon in holding the car or basket in its circular form.

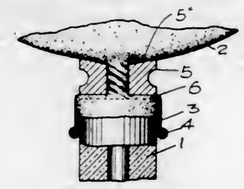
1,478,756. CABLE-WINDING APPARATUS. ALMON E. NORRIS, Brookline, Mass. Filed Jan. 3, 1921. Serial No. 434,421. 15 Claims. (Cl. 254—150.)



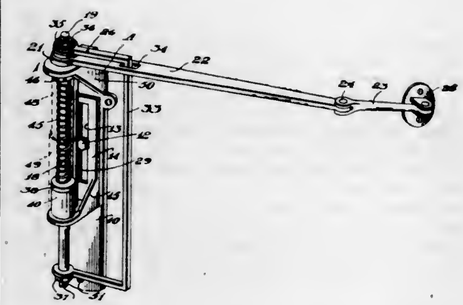
1. In a cable winding apparatus, the combination of a winding spool, driving mechanism thereof, and supporting means for said spool and its driving mechanism, including two pairs of bars, one pair transverse to and above the other, and a pair of brackets sustaining the upper pair of bars upon the lower, each bracket having a pair of legs and a connection between said legs.

1,478,757. BALLOON TOY. FREDERICK AUGUSTIN O'CONNOR, Toronto, Ontario, Canada. Filed Feb. 10, 1923. Serial No. 618,292. 1 Claim. (Cl. 46—36.)

A toy comprising a toy balloon provided with a neck, a tubular stem inserted within the neck, and an annular member extending around the neck and with which the neck frictionally engages when inflated and having one face concaved to fit the inflated balloon and adapted to be forced by such inflated balloon against that portion of the neck extending over the upper end of the stem.

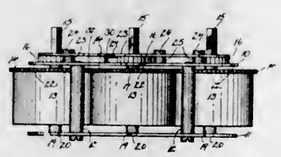


1,478,758. AUTOMATIC DOORCHECK. JAMES ROBERT PILSON and LOWIS ZOLL, Vanguard, Saskatchewan, Canada. Filed Mar. 13, 1922. Serial No. 543,366. 3 Claims. (Cl. 16—80.)



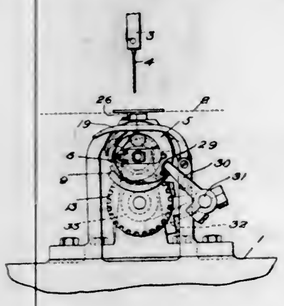
1. An automatic door check comprising an L-shaped member, a vertical sliding element mounted on the vertical arm of the L-shaped member having a lateral extension, a vertical shaft extending through the extension and the horizontal arm of the L-shaped member, a cam member on the shaft intermediate of the length thereof, a cam race on the extension loosely engaging the shaft, a coil spring on the shaft, an arm rigidly connected to the shaft designed to be fastened to a door, and a C-shaped element rigidly engaging the shaft and extending through a slot in the arm.

1,478,759. CLOCK MOVEMENT. WILSON E. PORTER, New Haven, Conn., assignor to New Haven Clock Co., New Haven, Conn., a Corporation. Filed Mar. 7, 1923. Serial No. 623,311. 3 Claims. (Cl. 58—52.)



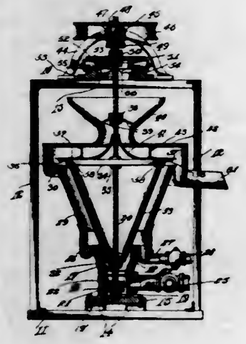
1. In a clock-movement, the combination with the front and rear movement-plates thereof, of a bridge adapted to be applied in spaced relation to one of the said plates, and a removable spring-barrel unit provided with a ratchet-wheel the said ratchet-wheel adapted to have bearing in one of the said movement-plates and also in the bridge affixed thereto.

1,478,760. SEWING MACHINE. FRANKLIN A. REECE, Chestnut Hill, Mass., assignor to The Reece Button Hole Machine Company, Boston, Mass., a Corporation of Maine. Original application filed June 14, 1919, Serial No. 304,223. Patent No. 1,424,851, dated Aug. 8, 1922. Divided and this application filed Jan. 26, 1922. Serial No. 531,996. 1 Claim. (Cl. 112—231.)



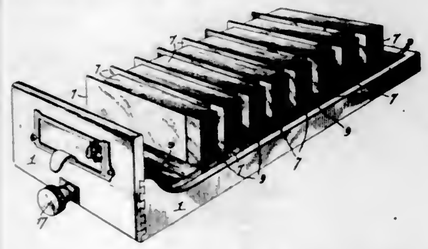
In a sewing machine, the combination with an eye-pointed needle, of a non-rotatable bobbin case, a rotary hook for taking a loop of needle thread and casting it about the bobbin case, said bobbin case having a recess on its front face, a positioning arm having a projection to enter said recess and hold the bobbin case from rotation, said bobbin case having a rounded protuberance on its front face, a driving shaft for rotating the hook, a rock shaft extending parallel to the driving shaft, a face cam on the driving shaft, an arm fast on the rock shaft and engaging said cam, a spring acting on the rock shaft to hold the arm in engagement with the cam, a finger fast on the rock shaft and adapted to engage said protuberance, the cam-actuated movement of the rock shaft causing the finger to move the bobbin case backwardly as the thread is drawn over the positioning projection.

1,478,761. GOLD-WASHING MACHINE. GEORGE E. C. ROUSSEAU, Sacramento, Calif., assignor to Rousseau Gold Washing Machine Company, a Corporation. Filed Dec. 4, 1922. Serial No. 604,821. 5 Claims. (Cl. 83—82.)



1. A gold washing machine including a centrifugal separating mechanism, means for reciprocating the mechanism, means for delivering foreign matter from the machine, means for discharging the gold from the machine, and means for delivering a current of water against the normal discharging flow of the gold to prevent escape of foreign matter with the gold.

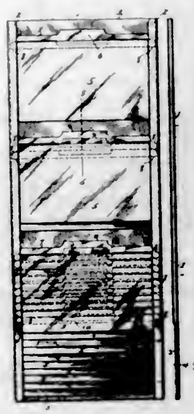
1,478,762. CARD INDEX. ROBERT C. RUSSELL, Pittsburgh, Pa. Filed Feb. 10, 1921. Serial No. 443,852. 3 Claims. (Cl. 129—16.)



1. In a card index, the combination with a holder and a plurality of index cards therein, of a flange or rib extending longitudinally of said holder between one side and the longitudinal center of said holder, each card having a notch for engaging over said flange or rib, all of said cards having name designations thereon and arranged in groups, one card of each group being laterally disposed or offset and engaging said rib or flange and the other cards of the several groups being disposed between said rib or flange and the opposite side of the holder.

2. In a card index, the combination with a holder, index cards therein, and means for holding said index cards in place, of fillers for spacing the index cards, each of said fillers having its upper edge formed to provide entering spaces between said fillers.

1,478,763. CARD INDEX. ROBERT C. RUSSELL, Pittsburgh, Pa. Filed Nov. 14, 1922. Serial No. 600,927. 5 Claims. (Cl. 129—16.)



1. A card index comprising a plurality of cards, and supports having hinge connection with said cards and provided with upwardly projecting tongues, the structure having slots adjacent to the hinge connection between the cards and supports for the passage of tongues of adjacent card supports.

1,478,764. CARD INDEX. ROBERT C. RUSSELL, Pittsburgh, Pa. Filed Nov. 14, 1922. Serial No. 600,928. 3 Claims. (Cl. 129—16.)

1. In a card index, the combination with a holder having guide-ways, of a plurality of index devices movably mounted in said holder, each of said devices comprising in a single integral structure, an index card, a



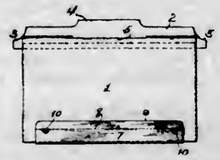
support therefor having lateral tongues and an upwardly projecting tongue, each index device having a slot to receive a tongue of an adjacent index device.

1,478,765. CARD INDEX. ROBERT C. RUSSELL, Pittsburgh, Pa. Filed Nov. 14, 1922. Serial No. 600,929. 3 Claims. (Cl. 129—16.)



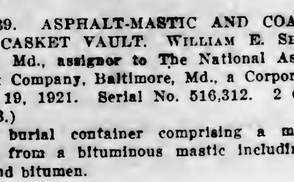
1. In a card index, the combination with a holder having guide-ways, of combined devices each comprising in a single piece, a card member and a support member adapted to overlie the guide-ways of the holder and each combined device also comprising tongues terminating inwardly of the side edges of said device and adapted to enter the guide-ways of the holder.

1,478,766. CARD INDEX. ROBERT C. RUSSELL, Pittsburgh, Pa. Filed Nov. 14, 1922. Serial No. 600,930. 4 Claims. (Cl. 129—16.7.)



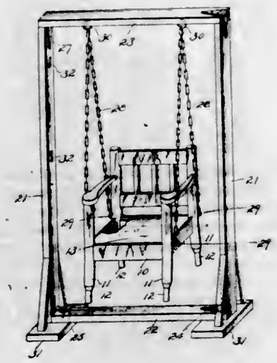
1. A protector for the edge portion of an index card, consisting of a single piece of resilient material bent upon itself to provide approximately parallel members, one of said members provided intermediate of its ends with a resilient projection which normally projects beyond the face of said member, whereby it may spring into engagement with a shoulder on a card disposed between said members.

1,478,767. INDEX CARD. ROBERT C. RUSSELL, Pittsburgh, Pa. Filed Nov. 14, 1922. Serial No. 600,931. 2 Claims. (Cl. 129—16.7.)



1. An index card having a transparent window near one edge, said card having at the same edge a label member folded behind the body of the card whereby an inscription on said label member may be seen through and protected by said transparent window.

1,478,768. COMBINED CHAIR AND SWING. LEWIS R. SCHWARTZ, New Haven, Conn. Filed Mar. 19, 1921, Serial No. 453,723. Renewed May 4, 1923. 2 Claims. (Cl. 155—58.)

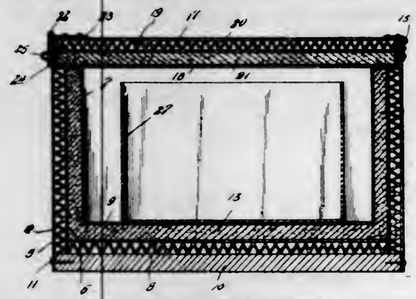


1. A device of the character described, comprising a collapsible frame constructed with uprights, a tie bar near the tops thereof and hinged to each of said uprights, a tie bar hinged to one of said uprights near the lower end thereof and separably secured to the other of said uprights; a chair, and means for movably connecting said chair to said upper tie bar.

1,478,769. ASPHALT-MASTIC AND COAL-TAR-MASTIC CASKET VAULT. WILLIAM E. SHEENE, Baltimore, Md., assignor to The National Asphalt Burial Vault Company, Baltimore, Md., a Corporation. Filed Nov. 19, 1921. Serial No. 516,312. 2 Claims. (Cl. 27—3.)

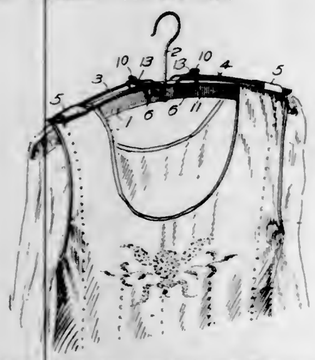
1. A burial container comprising a molded casing formed from a bituminous mastic including limestone, sand and bitumen.

1,478,770. ICE BOX. EDWARD R. STEEL, Grundy Center, and PETER C. MOLGARD, Eldora, Iowa. Filed Mar. 21, 1923. Serial No. 626,696. 1 Claim. (Cl. 217—5.)



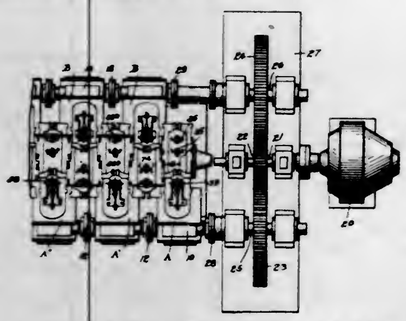
In a box of the class described including an inner and outer wall of galvanized sheet steel, a corrugated cardboard lining inside said outer wall, and a packing of mineral wool between said cardboard and said inner wall.

1,478,771. GARMENT HANGER. WITCHER S. SETTLE, New York, N. Y. Filed Aug. 15, 1922. Serial No. 582,020. 8 Claims. (Cl. 211—13.)



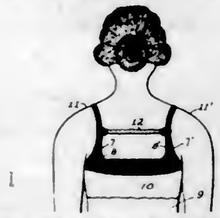
7. A garment hanger comprising a shoulder bar and a clamping arm operatively attached thereto, the said arm having portions spaced apart near the extremity and a friction member supported by the spaced apart portions of the arm and bridging the top of the shoulder bar.

1,478,772. TUBE-REDUCING MILL. RALPH C. STIEFEL, Ellwood City, Pa. Filed Apr. 19, 1922. Serial No. 555,586. 9 Claims. (Cl. 80—11.)



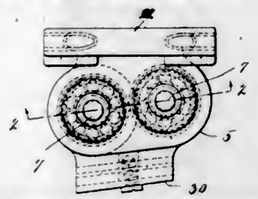
9. A tube reducing mill comprising a housing, cooperating rolls journalled in the housing, a circular opening in the housing in alignment with the roll pass, a guide provided with a boss fitting in said opening and having a circular aperture therethrough concentric with the said boss, a pair of spaced wings extending from the guide body and arranged symmetrically with respect to the said aperture, the upper and lower faces of said wings being provided with curved surfaces concentric with the axes of the rolls when properly centered with respect to the roll pass whereby to serve as an indicator in adjusting the rolls bodily towards and away from the roll pass, each of said wings also having straight inner and outer vertical parallel faces, the inner vertical faces being spaced apart a distance slightly less than the diameter of the aperture, and the distance between the outer vertical faces being equal to the length of the body of the rolls whereby to serve as an indicator in axially adjusting the said rolls.

1,478,773. SHOULDER-STRAP RETAINER. CAROLYN W. STOCKER, Lansdowne, Pa. Filed Nov. 13, 1919. Serial No. 337,734. 3 Claims. (Cl. 241—12.)



1. A garment having shoulder straps in combination with a removable elastic tie adapted to retain the straps against lateral movement, and a cover for the tie.

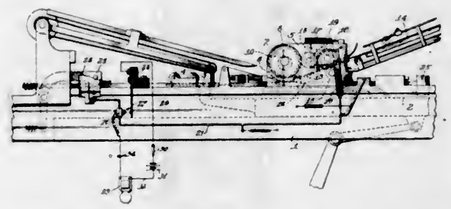
1,478,774. GUIDE DEVICE FOR BAND CUTTERS. BYRON F. STOWELL and HOWARD L. WASHBURN, Springfield, Mass., assignors to Metal Saw and Machine Company, Inc., Springfield, Mass., a Corporation of Massachusetts. Filed Mar. 8, 1921. Serial No. 450,793. 11 Claims. (Cl. 29—68.)



1. In a cutting machine of the kind employing an endless band cutter and having therein means for circulating the cutter in a plane and means for moving the plane of circulation of the cutter transversely of and at an angle to said plane to feed the cutter into the work, in combination guiding devices for the run of the cutter in contact with the work constructed and arranged to be rotated about the median line of the cutter at said run, and means for retaining said guiding devices in one rotative position.

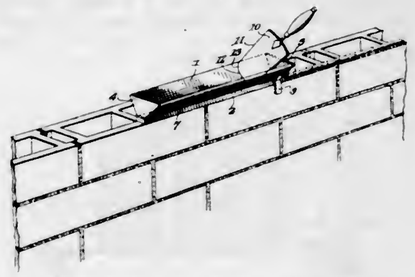
1,478,775. ALARM ATTACHMENT FOR PRINTING PRESSES. WILLIAM C. SCROLL, Detroit, Mich. Filed Oct. 8, 1919. Serial No. 329,229. 1 Claim. (Cl. 200—52.)

In a printing press having a paper feeding device with a feeler finger normally resting on the paper and adapted to be released by the absence of paper:—means adapted to provide a signal when the feeler finger is released, said means comprising a normally open contact device in an electric signal circuit, said contact device having its circuit maintained open by the feeler finger resting on the paper and which circuit is closed by the feeler finger being released by the absence of the paper, a controlling member connected to and reciprocated by the feeler finger, a trip member actuated



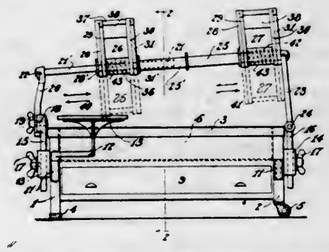
by said controlling member, a contact member adapted to be engaged by the contact member of said controlling member to complete the electric signal circuit, said trip member holding the contact member of said controlling member in engagement with said resilient contact member.

1,478,776. MORTAR GAUGE. JOHN WALKER, Honolulu, Territory of Hawaii. Filed July 5, 1922. Serial No. 572,836. 4 Claims. (Cl. 72—130.)



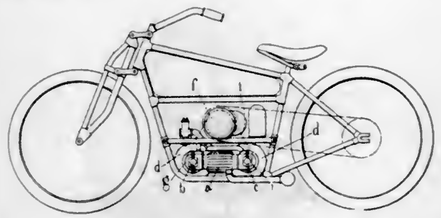
1. A mortar gauging and spreading device comprising a V-shaped trough having a longitudinal slot in the bottom thereof and pendant rims bounding said slot, and a spreading tool slidable in said trough and having an edge to strike the mortar parallel with the top of said slot.

1,478,777. LEG REST. CHESTER A. WASHBURN, Springfield, Mass. Filed Oct. 17, 1921. Serial No. 508,195. 11 Claims. (Cl. 128—82.)



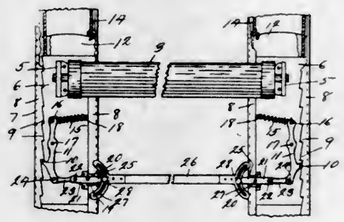
1. A surgical appliance for the purpose described, the combination, of a rigidly constructed frame work constituting the supporting base, a pair of stirrup members located above the same, means for varying the vertical and inclined adjustment of said members said means including telescoping supporting bars adjustably secured to the ends of the supporting base, and means for retaining said members in their adjusted positions.

1,478,778. INTERNAL-COMBUSTION ENGINE. WILLIAM WERRY, London, England. Filed June 20, 1923. Serial No. 646,652. 1 Claim. (Cl. 74—32.)



In an engine structure, parallel engine crank shafts, a common power shaft, sprocket wheels on the several shafts, and a three-point single chain drive by means of a single chain passing around the sprocket wheels on the respective engine shafts and the sprocket wheel on said power shaft, the latter shaft being located between but out of alinement with the engine crank shafts whereby the tension of the chain may be adjusted without altering the position of the engine shafts.

1,478,779. ADJUSTABLE SHADE BRACKET. BEVILL W. WHITWORTH, Omaha, Nebr. Filed Dec. 29, 1922. Serial No. 609,556. 1 Claim. (Cl. 156—27.)



The combination with a window frame, of adjustable shade supports carried thereby, said supports comprising channelled members secured to the faces of the window frame at the opposite sides thereof, shade roller supporting brackets slidably mounted in the channel members, ratchet teeth carried by the channeled members and overlying the shade supporting brackets, spring actuated dogs pivoted to the slidable shade supporting brackets and cooperating with the ratchet teeth, pivoted levers carried by the slidable brackets and extending towards each other, a link connection between the outer ends of the pivoted levers and the pivoted dogs, weights slidably mounted in the channelled members, cords carried by the weights, said cords extending upwardly over pulleys and downwardly and having their ends connected to the slidable brackets, and a connecting rod connecting the pivoted levers at their inner ends and forming means whereby upon a movement of the connecting bar the pivoted levers will be rocked and the pivoted dogs moved out of cooperative engagement with the ratchet teeth.

1,478,780. CHAIR DESK. CHARLES J. AKESSON, San Diego, Calif. Filed Feb. 11, 1920. Serial No. 357,788. 3 Claims. (Cl. 155—128.)

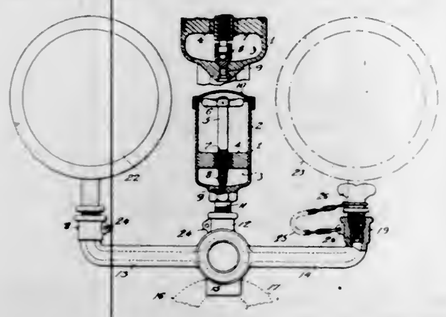
3. A chair desk, including a table member, means for supporting said table member on a chair arms, including a pair of spaced apart supporting members, secured near each end of said table member, other supporting members shiftable sidewise and at varying angles to said first mentioned supporting members, other supporting members pivotally mounted thereon and frictionally secured thereto, adapted to engage the chair arms and

be supported thereon, and lug means adjustably mounted on said last mentioned supports, forming grooves adapted to receive the edges of the chair arms, whereby said



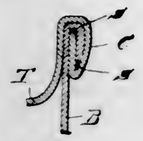
table is supported on said chair arms and adapted to be adjusted sidewise, forwardly and backwardly and on any angle relatively to the chair arms.

1,478,781. TEST GAUGE PUMP. ERNEST B. CROCKER, Stratford, Conn., assignor to Manning, Maxwell & Moore Inc., New York, N. Y., a Corporation of New Jersey. Filed Aug. 20, 1919. Serial No. 318,742. 9 Claims. (Cl. 73—51.)



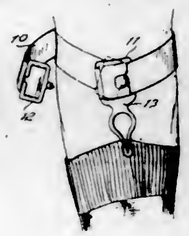
1. In a knock-down portable testing device of the character described, and in combination with a standard gauge and the device to be tested, of a member provided with two hollow arms in communication with each other, and adapted to detachably receive in their respective ends said standard gauge and the device to be tested, means for maintaining a supply of fluid in said member, and detachable means for replenishing said supply, and means for exerting a pressure on said fluid.

1,478,782. TOP FOR CAN BODIES. BRADLEY DEWEY, Cambridge, Mass., and HENRY P. SCOTT, Jr., Wilmington, Del. Filed July 28, 1921. Serial No. 488,182. 3 Claims. (Cl. 220—81.)



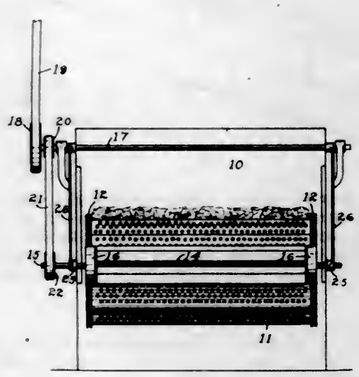
1. A can top, adapted to be double-seamed to a can-body, having a sealing member comprising individually deformable solid particles in association with a viscous binder, adhesively deposited on its margin.

1,478,783. GARTER. ROBERT FERRIDAY, Cleveland, Ohio. Filed June 20, 1921. Serial No. 478,879. 9 Claims. (Cl. 241—6.)



1. A garter comprising in combination a limb encircling band and a removable member at each end thereof, each of said members having oppositely spaced fingers on the marginal edges thereof for receiving and frictionally retaining said band.

1,478,784. DEVICE FOR STRIPPING STOCK FROM CONVEYER APRONS. FRANK L. FURBUSH, Westford, Mass., assignor to C. G. Sargent's Sons Corporation, a Corporation of Massachusetts. Filed Sept. 14, 1922. Serial No. 588,295. 5 Claims. (Cl. 198—230.)

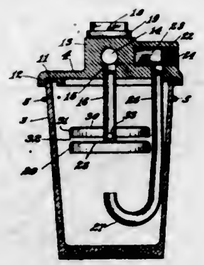


1. The combination with a conveyer and a non-circular rotary device over which the conveyer passes at one end, of movable means adjacent to said rotary device for stripping the stock from the conveyer, said movable means being hung from above to rest against the conveyer as it passes over said rotary device and having a wheel for regulating its distance from the conveyer arranged to move with the conveyer back and forth as it passes over at the end.

1,478,785. STRAINER FOR LIQUID FUEL. HARRY V. GOMPF, Springfield, Ohio, assignor, by direct and mesne assignments, of one-third to Charles S. Judson, Springfield, Ohio, and one-third to Golden C. Davis, Springfield, Ohio. Filed Sept. 14, 1922. Serial No. 588,198. 10 Claims. (Cl. 210—48.)

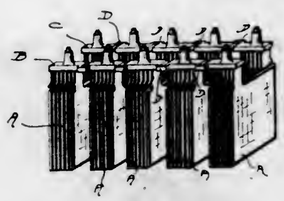
1. In a device of the character described, a receptacle, means for supplying liquid fuel to said receptacle, a connection to a vacuum feed system having a portion

thereof projecting into said receptacle and having a communication with the interior thereof, and a chamber



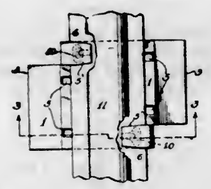
arranged about the entrance from said receptacle to said connection having an air space above said entrance, for the purpose specified.

1,478,786. METHOD OF ASSEMBLING STORAGE-BATTERY ELEMENTS. CLARENCE W. HAZELETT, Lakewood, Ohio, assignor to The Hazelett Storage Battery Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 24, 1922. Serial No. 531,386. 7 Claims. (Cl. 204—29.)



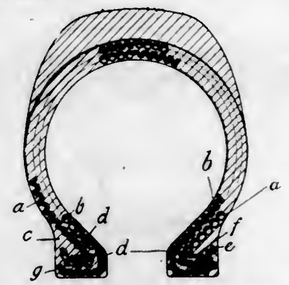
5. The method of assembling a series of storage battery elements comprising integrally connecting the positive bus bars by bridging portions of conductive material of less cross section than that of the bus bars and similarly connecting the negative bus bars, electrolytically forming the elements while thus connected, and thereafter severing the bridging portions of the bus bars.

1,478,787. COMBINED TIE PLATE AND RAIL ANTI-CREEPER. JACOB A. HYLE, Philadelphia, Pa. Filed Mar. 19, 1923. Serial No. 626,084. 9 Claims. (Cl. 238—305.)



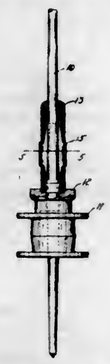
1. A track-rail tie plate of the character described, comprising a rolled steel plate formed with a lug disposed at each of two diagonally opposite corners, each lug overlapping and clamping the upper surface of the rail base, and each of said lugs having a recess formed in its inner face for the reception of locking means.

1,478,788. TIRE AND MANUFACTURE OF THE SAME. ERNEST HENRY JONES, London, England. Filed Dec. 31, 1921. Serial No. 526,202. 4 Claims. (Cl. 152—13.)



4. In combination in a casing for a pneumatic tire a plurality of layers of wire helices passing from one side edge of the casing to the other side edge, said helices passing obliquely from side edge to side edge and the helices in one layer being oppositely inclined to those of the adjacent layer, ductile nonresilient cores inserted in the ends of said helices of each of said layers, the said ends of the helices in one layer with the cores therein being bent to nest within the complementarily bent ends of the helices of the other layer so that together said ends of said helices form an enlargement at the side edges of said tire casing.

1,478,789. BOBBIN CLUTCH. GEORGE H. MAGRATH, Whitinsville, Mass. Filed May 4, 1923. Serial No. 636,699. 4 Claims. (Cl. 242—46.4.)



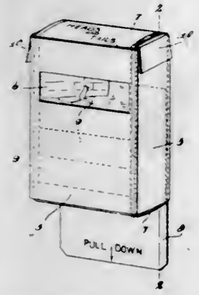
1. A spindle having, in combination, a spindle blade, a tubular casing mounted thereon and having a plurality of spaced openings in its side walls at an intermediate point in its length, and a plurality of resilient clutch members each engaging and positioned by said casing both above and below one of said openings and each having an outwardly extended intermediate portion projecting through one of said openings to engage and drive a bobbin mounted on said spindle.

1,478,790. PROCESS OF ROASTING SULPHIDE ORES. PERCY R. MIDDLETON, New York, N. Y., assignor of one-half to John C. Lalor, New York, N. Y.; Willard A. Lalor executor of said John C. Lalor, deceased. Filed Dec. 23, 1920. Serial No. 432,845. 3 Claims. (Cl. 75—18.)

1. Process of roasting sulphide ores, comprising heating the ore with access of air to a reacting temperature below the ignition point of the sulfur in the ore, maintain-

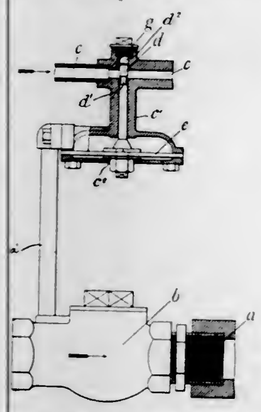
ing such temperature until the maximum proportion of the sulphide of the metal to be extracted has been oxidized to sulfate, and thereafter decomposing a portion of the sulfate to establish the desired acid-balance in the process.

1,478,791. CARDBOARD BOX. ARTHUR NELSON, Vancouver, British Columbia, Canada. Filed Oct. 25, 1921. Serial No. 510,260. 3 Claims. (Cl. 229—6.)



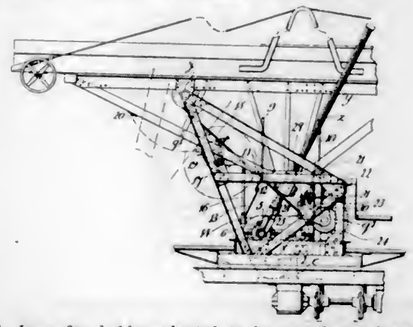
1. The combination with a container, of a cover therefor having a display aperture and a strip of flexible material passing between the sides of the container and the cover, said strip having a succession of panels of printed matter on the face toward the cover which when the strip is pulled endwise will be successively displayed through the aperture of the cover.

1,478,792. LIQUID PUMP OR ELEVATOR. JOHN EDWARD LEWIS OGDEN, Liscard, England. Filed Apr. 19, 1923. Serial No. 633,291. 1 Claim. (Cl. 137—153.)



In an automatic control device for pumps and the like, a pressure fluid pipe, a casing having a chamber therein communicating with said pipe, a piston type valve arranged in said chamber to control passage of fluid through said pipe and being normally open, a pump suction pipe communicating with said casing, a diaphragm arranged in said casing connected with said valve and responsive to variations in pressure conditions in said pump suction pipe whereby said valve is maintained in its slightly open position in response to relatively high pressure conditions in said pump suction pipe, said casing having a passage therein permitting the pressure fluid to enter the chamber in said casing and act directly on said valve whereby said pressure fluid is utilized to assist the diaphragm in maintaining said valve in slightly open position.

1,478,793. FIRE LADDER AND THE LIKE. JOHN HENRY OSBORNE, Blackheath, and ALFRED WILLIAM BURFORD, Lee, London, England. Filed July 11, 1921. Serial No. 483,873. 4 Claims. (Cl. 228—6.)



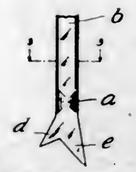
1. In a fire ladder adapted to be raised and lowered about a horizontal axis and of being telescopically extended or collapsed, a shaft, a pair of spur wheels loosely mounted thereon, a shaft parallel to the first named shaft also having a pair of spur wheels loosely mounted thereon and in constant mesh with the first named pair, a pair of oppositely rotating driving wheels in constant mesh with the spur wheels on one of the said shafts and clutch members whereby, with all the gear wheels continually in mesh, it is possible to use either shaft by itself or both shafts together with reversal of either or both whenever desired.

1,478,794. DOUCHE SEAT. ROBERT A. PHILLIPS, Taylorville, Ill. Filed Feb. 26, 1923. Serial No. 621,299. 4 Claims. (Cl. 4—6.)



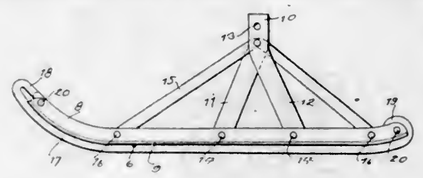
1. A device of the class described comprising a pair of seat members, legs depending from the seat members and provided with curved teeth for engaging the edge of a toilet bowl, and a prop extending to the rear of the device so as to depend in the toilet bowl in the manner and for the purpose specified.

1,478,795. NEEDLE OR STYLE FOR GRAMOPHONES AND LIKE MACHINES. KENNETH HAROLD PERKINS, Redditch, England. Filed July 13, 1922. Serial No. 574,601. 6 Claims. (Cl. 274—38.)



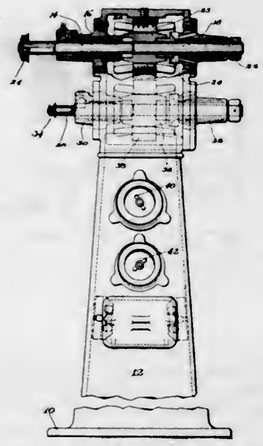
1. A needle or style for gramophones and the like comprising a shank part having a pair of pointed blades at one end set at an angle thereto.

1,478,796. VEHICLE RUNNER. ALBERT PINARD, East Charleston, Vt. Filed Apr. 2, 1921. Serial No. 457,915. 1 Claim. (Cl. 280—12.)



A runner attachment for vehicles including a pair of spaced parallel angle iron members having their lower flanges extending outwardly in opposite directions and their ends upturned, a shoe extending from end to end of said members and contacting the latter throughout at the junctures of their flanges, said shoe being of circular cross section and having its ends return bent and secured between the ends of said members, an inverted substantially U-shaped support having its lower ends respectively directed forwardly and rearwardly, and secured between said members, the side arms of said suport having transversely aligned openings in the upper portions thereof for reception of the axle of the vehicle, and a pair of parallel braces for said support, each attached to the upper portion of one side arm of the support and extending forwardly and rearwardly from the latter and secured and terminating between said members.

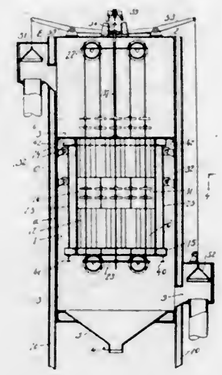
1,478,797. MACHINE FOR TRIMMING THE EDGES OF BOOTS AND SHOES. EUGENE J. RAY, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 8, 1922. Serial No. 535,050. 4 Claims. (Cl. 12—88.)



1. An edge-trimming machine having a frame carrying a pair of spaced bearings, a shaft mounted in said bearings, a cutter carried by one end of the shaft and having its periphery shaped to trim the edges of shoe parts substantially to their final form, and a high-speed motor having its rotor mounted directly on the shaft concentrically therewith and between said bearings.

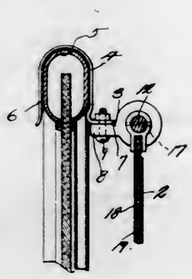
4. An edge-trimming machine having a column, a horizontal cutter shaft journaled in the upepr part of the column, an edge-trimming cutter carried by the shaft, and a high speed, high frequency, induction motor having its rotor mounted directly on and balanced with respect to the axis of rotation of the cutter shaft and its stator carried by the column and surrounding the cutter shaft.

1,478,798. APPARATUS FOR ELECTRICAL TREATMENT OF GASES. ARTHUR A. SCHMIDT, Los Angeles, Calif., assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed May 27, 1919. Serial No. 300,186. 10 Claims. (Cl. 183—7.)



1. In an apparatus for the electrical treatment of gases, a plurality of parallel discharge electrodes and a plurality of sections of collecting electrodes, each section of collecting electrodes comprising a plurality of parallel flues respectively surrounding said discharge electrodes, and said sections being spaced apart to permit interflow and equalization of the gases betwene the several flues of the sections, and means for conducting the gases to and from the said collecting electrodes.

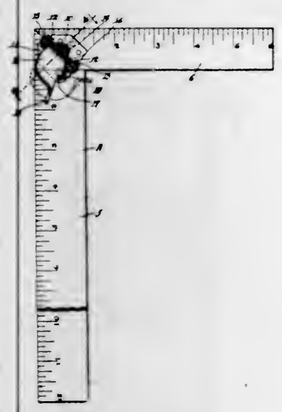
1,478,799. GLARE PROTECTOR. AUGUST C. SCHNAKE, Centralia, Ill. Filed Feb. 28. 1922. Serial No. 539,815. 1 Claim. (Cl. 296—97.)



The combination with the upper rail of a vehicle windshield, of a glare protector carried thereby, said glare protector comprising U-shaped members frictionally and slidably mounted on the rail, said U-shaped members having one of their arms provided with a horizontally disposed ear, said glare protector being carried by spaced brackets having sockets, friction members carried by the glare protector and disposed within the sockets, horizontally disposed ears carried by the spaced members and

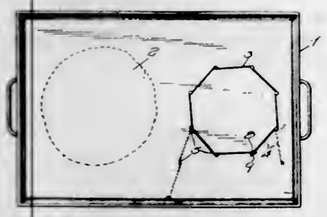
pivotally connected to the horizontal ears of the U-shaped members and forming means whereby the spaced members may move in a horizontal plane and spring means for forcing said spaced members toward each other.

1,478,800. MECHANIC'S SQUARE. WILLIAM M. SLAVIK, Oak Park, Ill. Filed Mar. 11, 1922. Serial No. 542,818. 6 Claims. (Cl. 33—117.)



1. A foldable rule including rule members, a hinge connection between said rule members, and locking means including a member pivoally carried by one of the members of the hinge connection and having a portion extending over the other member of the hinge connection when the rule members are in extended position.

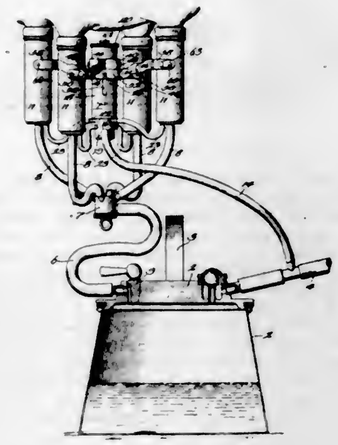
1,478,801. COOKING UTENSIL. CLARENCE E. SLYE, Aurora, Ill. Filed Apr. 14, 1922. Serial No. 552,811. 1 Claim. (Cl. 53—6.)



A device for use in a roasting pan for enclosing a space therein and comprising a plurality of flat plates hinged together in a series to form a continuous wall adapted to be placed on edge in a roasting pan, and said wall being capable of being disconnected at one point in its length as and for the purpose specified.

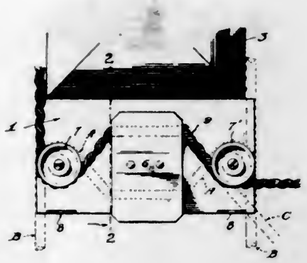
1,478,802. MILKING MACHINE. JACOB J. STAMPEN, Chicago, Ill., assignor to Pine Tree Milking Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 30, 1922. Serial No. 591,568. 7 Claims. (Cl. 31—70.)

1. A milking machine having a plurality of teat cups adapted to maintain themselves by suction upon the teats of the animal, a pulsator having a casing and a piston working therein, a jointed bracket connecting the pulsator casing with one of the teat cups, said bracket permitting freedom of movement in a horizontal plane but preventing movement in a vertical direction relatively to the pulsator casing, and a second jointed bracket connecting



the piston with another one of the teat cups, said bracket permitting freedom of movement in a horizontal plane but preventing movement in a vertical direction relatively to the piston.

1,478,803. CLOTHESLINE HOLDER. HENRY W. STEINKRAUS, Peoria, Ill. Filed Apr. 19, 1923. Serial No. 633,102. 3 Claims. (Cl. 24—129.)

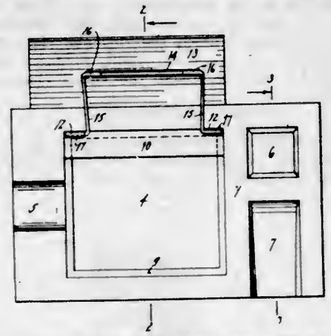


1. A clothes line holder comprising a bracket, a member secured between its ends thereon with its opposite extremities disposed at an angle to the plane of the said bracket, and a pulley mounted on the bracket at each side of the member, the centers of the pulleys and the portion of the member between its said extremities lying substanitally in line with one another.

1,478,804. ASH RECEIVER. DECIO TORRICELLI, Springfield, Mass. Filed Mar. 24, 1922. Serial No. 546,284. 3 Claims. (Cl. 131—51.)

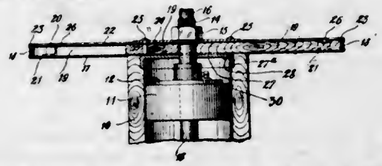
3. The combination, in an ash receiver, with a block having an ash well therein, of a plate secured to said block at one side of said well, and provided with lugs, of a cover provided with a lug, and angular rods having parts receivable in said cover lug and arts receivable

in said plate lugs, said rods being adapted by compression and expansion to have its plate-lug-engaging



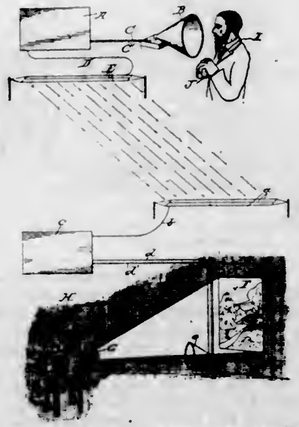
parts introduced into said plate lugs, and by compression to have said last-named parts removed from said plate lugs.

1,478,805. BEAM CONSTRUCTION. WALTER I. TUTTLE, Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass., a Corporation of Rhode Island. Filed Nov. 28, 1922. Serial No. 603,753. 15 Claims. (Cl. 242—124.)



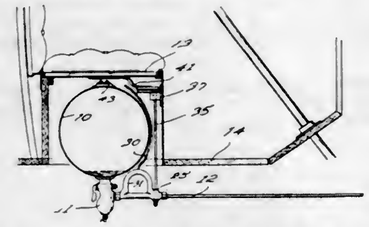
6. In beam construction, in combination, a wooden head member having parts extending substantially to the periphery of the head, a metal head member resting against a face thereof and having its periphery flanged over the periphery of said wooden head member to form a metal belt race, and a second metal head member resting against the other face of said wooden head member and having its edge flanged to extend between said flange forming said belt race and the periphery of said wooden head member.

1,478,806. METHOD OF DELIVERING ILLUSTRATED LECTURES OR SONGS. ALEXANDER FERDINAND VICTOR, New York, N. Y. Filed Mar. 1, 1922. Serial No. 540,351. 2 Claims. (Cl. 250—6.)



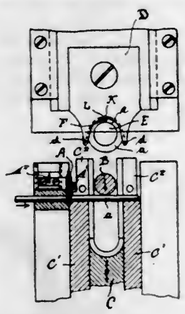
1. The combination with a wireless sending station from which vocal sounds are transmitted, a receiving station for said vocal sounds, a manually operated picture projecting apparatus located adjacent to the sound reproducer of the receiving station, and a manually controlled signal having a different characteristic from vocal sounds transmitted by wireless to the vicinity of the manually operated picture apparatus for the purpose of signaling to synchronize manually the movement of the pictures to accord with the vocal sounds.

1,478,807. COMBINED RESERVE FUEL CONTROL AND LOCK FOR AUTOMOBILES. ARTHUR O. WEBER, Euclid Heights, Ohio. Filed May 15, 1922. Serial No. 561,147. 3 Claims. (Cl. 158—46.5.)



1. In combination, a fuel supply tank, a device having a main conduit and a bypass conduit therein, means for connecting the device to the tank below the bottom of the tank, the bypass conduit extending parallel to the main conduit adjacent one end of the device, and a valve having a central passageway with lateral passageways extending radially therefrom adapted to communicate with the respective parallel conduits, and means whereby the valve may be operated to control the flow of fuel.

1,478,808. RING MESH AND CHAIN MACHINE. JOHANN MARTIN WEBER, Frankfort-on-the-Main, Germany, assignor to Ernst Gideon Bek, Pforzheim, Germany. Filed Aug. 30, 1921. Serial No. 496,926. 11 Claims. (Cl. 113—59.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

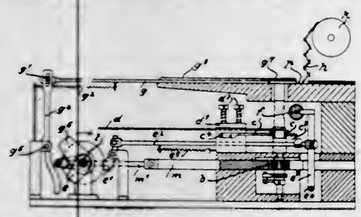


1. In a machine for making connecting and soldering wire-links the combination of means to form a U-shaped piece, a back former, means to feed the end of soldering thread to the place where the seam of the link is to be formed, means to close the link around the said end and to sever such end from the thread.

1,478,809. MANUFACTURE OF CHAINS AND CHAIN MESHWORK. JOHANN MARTIN WEBER and KARL BETZ, Frankfort-on-the-Main, Germany, assignors to Ernst Gideon Bek, Pforzheim, Germany. Filed Aug. 30, 1921. Serial No. 496,927. 8 Claims. (Cl. 140—3.)

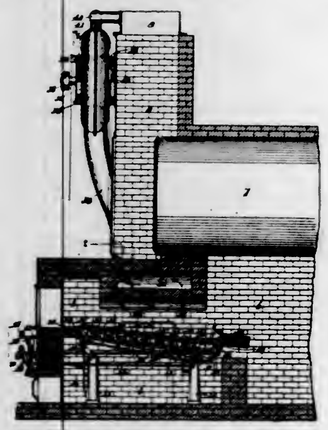
1. In a machine for the manufacture of chains and chain mesh-work the combination of an intermittently rotating pin, with means to feed a wire to one end of

the pin, means to shift the coil of wire so formed to the other end of the pin, means to cut the coil while on the



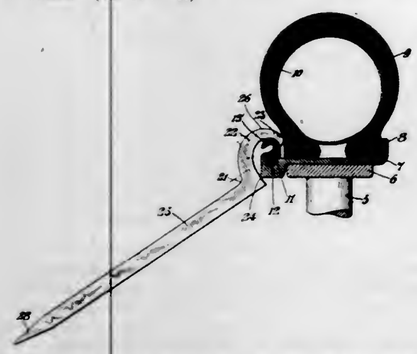
pin into individual rings, means to remove the rings from the other end of the pin and means to feed the removed rings toward the rings previously formed.

1,478,810. FURNACE. FREDERICK H. WOLKENHAUER, Bensenville, Ill. Filed Feb. 15, 1919. Serial No. 277,211. 8 Claims. (Cl. 110—38.)



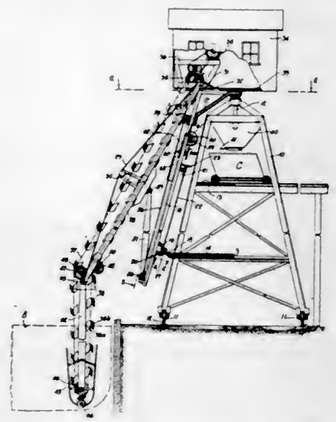
1. A fire grate for furnaces comprising a plurality of movable grate bars, certain of said bars being connected together to form independently movable sets; means for moving said sets of bars simultaneously in one direction; and means whereby said bars move away from each other during such simultaneous movement, substantially as described.

1,478,811. TIRE-TOOL METHOD. JAMES W. AMICO, Rye, N. Y. Filed Mar. 5, 1923. Serial No. 622,775. 1 Claim. (Cl. 157—6.)



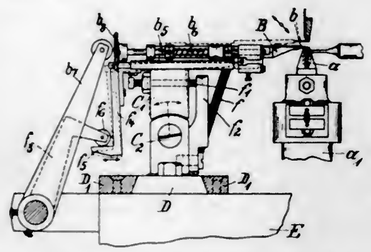
The method of putting in place the shoe retaining ring on the rim of a wheel which consists in placing one end of the ring in position on the rim, applying thereto a tool having a handle and a hooked end extending over and bearing against the shoe retaining ring with the part opposite the hooked end engaging under the rim of the wheel with a cam action to force the ring in position on the rim, then knocking the tool circumferentially about the ring and rim while applying pressure to the tool handle to force the ring into place on the rim about the entire circumference of the rim.

1,478,812. COAL CONVEYER. OTTO E. BARENE, Brooklyn, N. Y. Filed Oct. 11, 1920. Serial No. 416,268. 7 Claims. (Cl. 198—119.)



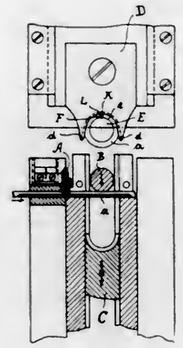
1. In a conveyer, the combination of a frame, means to hold the frame from tilting, a conveyer boom connected by horizontal pivots to the upper portion of the frame adapting the boom for movement at its lower end toward and from the frame, and means to cause the tilting of the boom, said means including a strut pivoted at its upper end to the boom intermediate of its ends, the lower end of the strut being movable up and down along the frame.

1,478,813. AUXILIARY DEVICE FOR INSERTING LEAVES OF SOLDER INTO THE JOINTS OF THE LINKS OF WIRE CHAINS. EMIL BECKER, Pforzheim, Germany, assignor to Ernst Gideon Bek, Pforzheim, Germany. Filed Sept. 11, 1922. Serial No. 587,605. 6 Claims. (Cl. 113—94.)



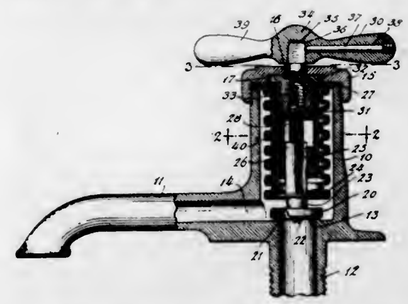
1. In a wire chain making machine, a solder feeding device adapted for use in connection with link forming mechanism, comprising a guide for a solder thread adapted to hold a tip of the solder thread beyond its foremost end and direct it into the path through which said link forming mechanism moves a link blank and to retain said tip in said path during the closure of the link ends and a support for said guide, means to rock the support and guide alternately toward and from the link forming mechanism and a severing mechanism for severing the tip of the solder from the solder strip.

1,478,814. MANUFACTURE OF CHAIN MESHWORK AND CHAINS. WILHELM BITTROLF, Pforzheim, Germany, assignor to Ernst Gideon Bek, Pforzheim, Germany. Filed Aug. 30, 1921. Serial No. 496,909. 9 Claims. (Cl. 113—59.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



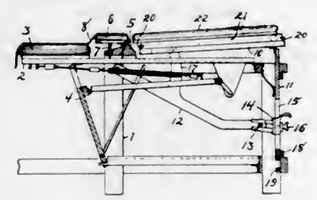
1. In a machine of the character described, the combination of a device for feeding a strip of solder, link-forming implements to bend a piece of wire and bring its ends against the end of the solder strip while the solder strip is continuous, and cutting means for severing the strip portion thus brought between the ends of the wire from the body of said solder strip, said cutting means comprising a fixed knife arranged immediately under the lower surface of the ring in the process of formation and at one side of the solder strip, a movable knife aranged on the opposite side of the solder strip, and means to actuate said movable knife after the ring has been closed around the end of the solder strip.

1,478,815. VALVE. FREDERIC D. BLAUVELT, Glen Ridge, N. J. Filed Jan. 12, 1923. Serial No. 612,178. 3 Claims. (Cl. 251—31.)



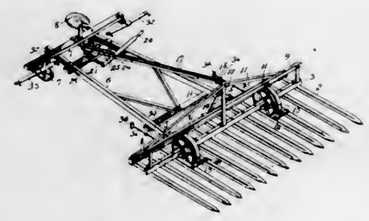
1. A valve, comprising a casing including a body portion open at one end and a screw cap closing the open end of the body portion, a sleeve within the casing having a flange at its outer end held between the open end of the body and the cap, a corrugated cylindrical diaphragm secured at one end to said sleeve and extending inward beyond the inner end of the sleeve, a valve stem to which the inner end of the diaphragm is secured and which is held against rotation but permitted to move endwise by engagement with the inner end of the sleeve, a rotatable operating stem extending through an opening in the cap and held against axial movement and having a threaded connection with the valve stem, whereby rotation of the operating stem will cause endwise movement of the valve stem.

1,478,816. CHIROPRACTIC TABLE. ELVA BOWMAN, Fort Wayne, Ind. Filed Mar. 28, 1922. Serial No. 547,436. 7 Claims. (Cl. 128—72.)



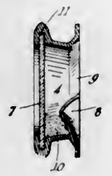
1. In a chiropractic table, a frame; a vertically movable yieldingly sustained abdominal support; a pair of sternum rests spaced apart on the frame adjacent the abdominal support; a flexible shield secured to the sternum rests and extending loosely over the abdominal support; a vertically adjustable prop at the front of the frame; a block vertically adjustable on the prop; a pair of brackets pivotally supported at the rear of the frame and having sustained relation with said block; and a head supporting means sustained at its forward end upon the prop and at its rear portion upon said brackets.

1,478,817. HAYRAKE. EDWARD J. CANTWELL, Kansas City, Mo. Filed Feb. 14, 1921. Serial No. 444,671. 3 Claims. (Cl. 56—395.)



1. In a hay rake, a tilting rake frame, carrying wheels supporting said frame on which the frame is adapted to swing, a wheeled seat supporting frame pivoted to the rake frame, means for swinging the rake frame operative from the seat frame, the arrangement being such that, when unloaded, the rake frame will normally swing to a position such that the teeth of the rake frame will incline forwardly and upwardly, and means for limiting such last named movement, substantially as set forth.

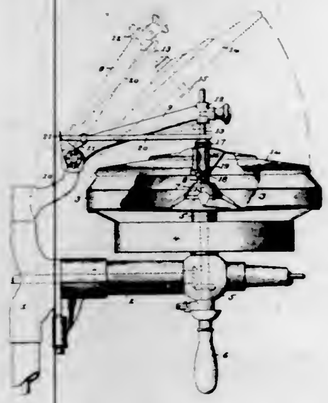
1,478,818. EYE GOGGLES. HARVEY S. COVER, South Bend, Ind. Filed Feb. 13, 1922. Serial No. 536,010. 7 Claims. (Cl. 2—146.)



1. Eye goggles comprising chambers having open inner portions adapted and arranged to seat against and be closed by the face of the wearer and provided in their outer walls with sight transparencies providing open unobstructed sight passages leading from the eyes of the wearer to said transparencies; and means in open communication with but out of said sight passages for preventing deposit of moisture on said transparencies

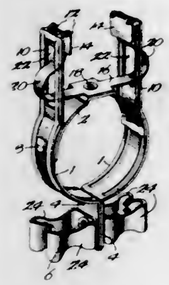
whereby moisture emanating from the person of the wearer passes to said means and is prevented thereby from being deposited on said transparencies, substantially as described.

1,478,819. PAN FOR POPPING CORN. CHARLES CRETORS, Chicago, Ill. Filed Oct. 30, 1922. Serial No. 597,791. 6 Claims. (Cl. 53—4.)



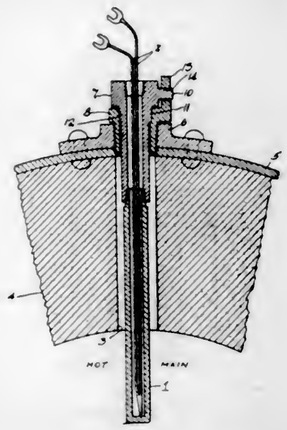
1. In a corn popping apparatus, the combination of a popping pan, a cover for said pan, means for imparting rotation to said cover, the same comprising a vertically arranged shaft having a quick pitch spiral connection with said pan cover, adapted to normally cause the pan cover and the shaft to rotate in unison and with a frictional resistance to the rotation of the cover to cause said cover to move upwardly upon the shaft, a lifting means tending to lift the cover away from the popping pan, and a holding means for said lifting means adapted to normally maintain the pan cover in its down position and to be operated to a release by an upward movement of the pan cover under the influence of the aforesaid spiral connection.

1,478,820. DRAPERY HANGER. RAYMOND B. DWYER, Oak Park, Ill. Filed Oct. 18, 1922. Serial No. 595,413. 6 Claims. (Cl. 156—21.)



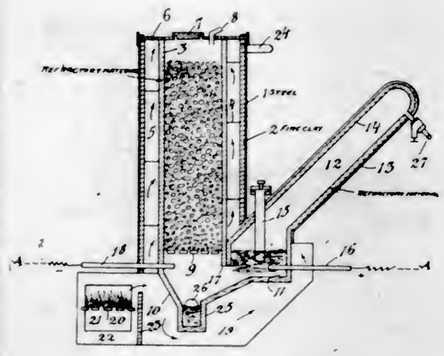
4. A drapery hanger having a ring provided with upstanding fixed jaws having openings therein, and a spring member secured to the top of the ring and having bows extending outward through said openings, said bows terminating in movable jaws which face outward toward the fixed jaws for engaging the drapery between them, and means below the ring for preventing overbalancing of the same when the drapery is in place.

1,478,821. MOUNTING FOR THERMOCOUPLE WELLS. DANIEL M. FOSTER, Youngstown, Ohio. Filed May 13, 1922. Serial No. 560,862. 4 Claims. (Cl. 73—32.)



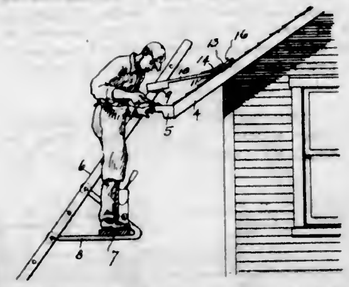
1. The combination with the well of a thermo-couple or like device, of a mounting therefor including an inner plug member to which said well is attached, said member having a beveled portion, an outer plug member in the form of a sleeve having a beveled seat for the reception of such beveled portion on said inner member, and means adapted to secure said inner member in seated position in said outer member.

1,478,822. METHOD OF AND APPARATUS FOR DECOMPOSING ORES. JOHN D. GAT, North Canton, Ohio. Filed Feb. 2, 1921. Serial No. 441,927. 17 Claims. (Cl. 204—19.)



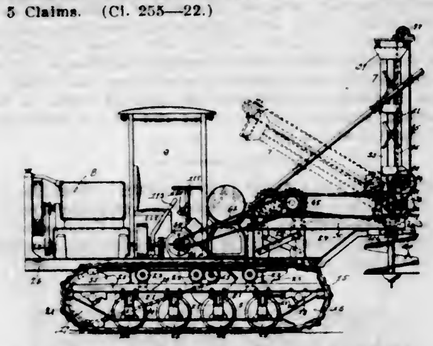
1. The process of manufacturing metallic compounds from ores containing a metal capable of forming an oxide of acid reaction, consisting in immersing the ore in a bath containing an alkali metal, acting with said alkali metal upon the immersed ore generating molten metallic compounds thereby, withdrawing said molten metallic compounds from the bath and separating the metallic compounds from each other by any of the well known ways.

1,478,823. ROOF-PROJECTION LADDER SUPPORT. PAUL G. GAUSS, Indianapolis, Ind. Filed Feb. 8, 1923. Serial No. 617,787. 3 Claims. (Cl. 228—60.)



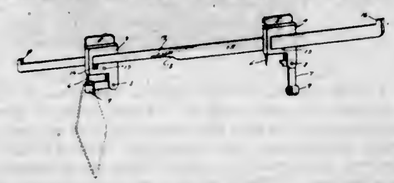
1. In a device for the purposes specified, a sleeve with a single opening to slidingly receive both side numbers of a ladder, and members extending therefrom to contact a roof and cause the sleeve by weight on the ladder to grip and hold the ladder in a given position.

1,478,824. TRACTOR. GUSTAV R. GEHRANDT, Evanston, Ill., assignor, by mesne assignments, to International Earth-Boring Machine Corporation, a Corporation of Delaware. Filed Dec. 1, 1919. Serial No. 341,769. 5 Claims. (Cl. 255—22.)



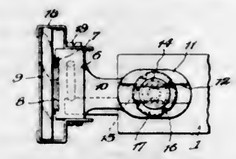
1. A tractor having a caterpillar tread and drive, a frame rigidly carried by and projecting beyond said caterpillar and a tower carried by said frame and pivoted thereto on a horizontal axis.

1,478,825. LAUNDRY-TAG CARRIER. ANGUS F. HANNEY, Chicago, Ill., assignor to Eureka Rough Dry Pin System Co., Chicago, Ill. Original application filed Aug. 2, 1920, Serial No. 400,850. Divided and this application filed Sept. 3, 1921. Serial No. 498,371. Renewed Oct. 31, 1923. 7 Claims. (Cl. 40—2.)



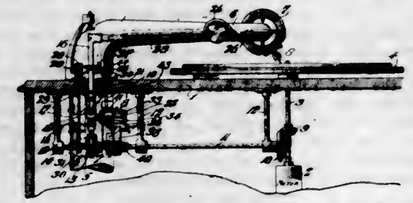
1. In combination with a laundry tag provided with means for carrying articles, a carrier bar having two portions varying in size, one of said portions being constructed to receive said tags while carrying articles, and the other to retain the tags in a group, and means on said bar at the junction of said portions to actuate the means of said tags and release the carried articles.

1,478,826. AUTOMOBILE MIRRORSCOPE BRACKET. ELLSWORTH A. HAWTHORNE and ELLSWORTH S. HAWTHORNE, Bridgeport, Conn.; said Ellsworth S. Hawthorne assignor to said Ellsworth A. Hawthorne. Filed Apr. 13, 1922. Serial No. 552,294. 2 Claims. (Cl. 45—97.)



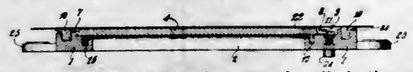
2. In a mirror support a pair of bracket members having mirror supporting heads at one end, means to secure the opposite ends of the bracket members to a support, said heads having relatively long vertical outer faces and spaced upper and lower seats, a cushioning pad secured to the outer face of each head, a mirror engaged with the pad, independent clamps having slotted parts engaged with the respective seats of the heads and having parts engaged with the front face of the mirror, and independent screws projected through the slots of the clamps and into the seats of the heads for independently and adjustably securing the respective clamps to the heads and for enabling removal of the mirror by operation of but one screw of each clamp.

1,478,827. REPEATING MECHANISM FOR TALKING MACHINES. JOSEPH C. HITCHNER, Hammonton, N. J., assignor to Cheney Talking Machine Company, Chicago, Ill., a Corporation of Illinois. Filed June 4, 1920. Serial No. 386,540. 9 Claims. (Cl. 274—15.)



1. In a repeating attachment for talking machines in combination, a tone arm and its neck, a lever fulcrumed on said tone arm to effect the raising and lowering of the neck at the proper time, a turntable shaft, a gear thereon, a second shaft, a mutilated gear on said second shaft co-operating with the turntable shaft gear and controlled by the position of the tone arm, a connection from said lever to said second shaft to actuate said lever, and means actuated by said second shaft and co-operating with said connection to effect the return of the tone arm to its initial position after a record has been played.

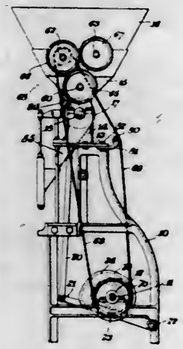
1,478,828. VACUUM FRAME FOR PRINTING UPON SENSITIZED SURFACES. HARRY C. JONES, Larchmont, N. Y., assignor to Lithoprintex Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 25, 1922. Serial No. 546,579. 9 Claims. (Cl. 95—76.)



1. In apparatus of the character described, the combination of a frame for receiving and holding a negative to be printed from onto a sensitized surface, means for positioning and securing the negative in a fixed position upon the frame at the front side thereof from lateral movement relative thereto so that the frame and negative secured thereto may be moved together with respect to the sensitized surface, means operatively related to said sensitized surface frame and negative and serving to

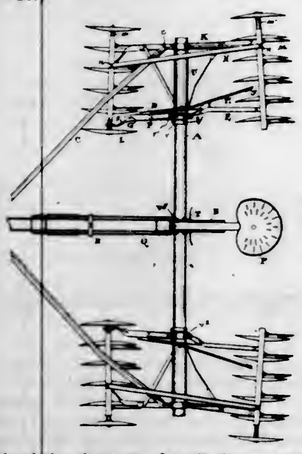
seal off from the atmosphere that portion of the sensitized surface covered by the negative, and means of communication for exhausting the air from over said portion of the sensitized surface to cause the negative to be forced into engagement with the same.

1,478,829. CIGAR-BUNCHING MACHINE. BERNARD LIBERMAN, LEON LIBERMAN, and WILLIAM M. REICHART, Philadelphia, Pa.; said Leon Liberman and said Reichart assignors to said Bernard Liberman. Filed Aug. 2, 1919. Serial No. 314,999. 8 Claims. (Cl. 131—39.)



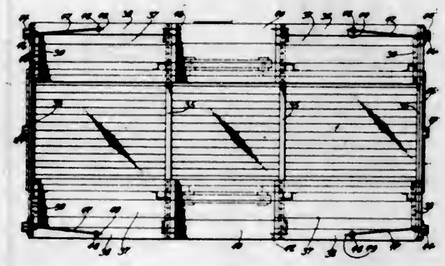
8. In a cigar bunching machine, the combination of an oscillatory feed roll provided with a receiving pocket, a hopper delivering thereto, a rotating shaft horizontally arranged in the hopper directly above the feed roll, having diametrically extending members secured thereto, a pair of agitating shafts provided with agitating fingers mounted on the hopper above the plane of the first mentioned shaft and traveling in opposite directions, an actuating mechanism for said elements so synchronized that the feed roll shall have a dwell in the receiving position, the diametrically extending members shall assume the vertical position at the beginning of said dwell, and shall operate during the dwell to facilitate the delivery of scrap to said pocket, and the agitating devices shall have continuous operation.

1,478,830. ORCHARD DISK OR HARROW. JESSE G. LINDEMAN, Yakima, Wash. Filed June 21, 1921. Serial No. 479,274. Renewed June 27, 1923. 4 Claims. (Cl. 55—30.)



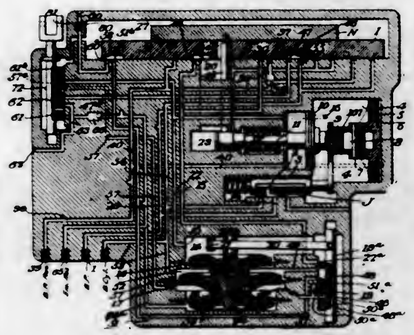
1. A disk of the character described, comprising a supporting element extending transversely to the line of travel, and a pair of gangs of disks, one upon each side of the center of the line of travel and bodily movable as a unit and from each other and independently of the angle at which said disks are set in combination with draft elements connected to the gangs of disks at such angles as to move said gangs of disks toward or from each other under the forward or backward movement of the source of power by which the machine is drawn.

1,478,831. FARM WAGON. JOHN LONG, Jefferson City, and ANDREW J. BASS, Columbia, Mo. Filed Oct. 24, 1922. Serial No. 596,554. 9 Claims. (Cl. 296—11.)



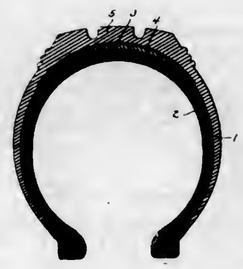
1. In a farm wagon, the combination with a body having side and end walls, of a pair of frames supported transversely of the body, releasable connections uniting said frames, means for holding said frames in position on the body, and a pair of upright end frames one of which is removably supported at the rear end of one of said transverse frames and the other of which is removably supported at the front end of the other one of said transverse frames.

1,478,832. AIR-BRAKE APPARATUS. SPENCER G. NEAL, New York, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del., a Corporation of Delaware. Filed May 23, 1923. Serial No. 640,893. 17 Claims. (Cl. 303—74.)



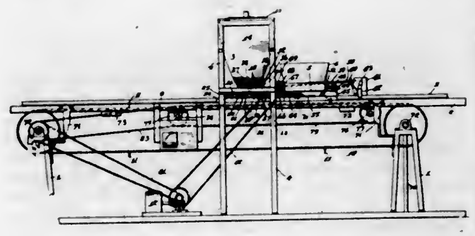
1. A triple valve operating upon a reduction of brake pipe pressure to admit air to a brake cylinder for an application of the brakes and operating upon an increase in brake pipe pressure to connect the brake cylinder to atmosphere, and provided with a pilot valve subject to brake pipe, brake cylinder and emergency reservoir pressures, said pilot valve operating upon an increase in brake pipe pressure after an application of the brakes to admit brake cylinder pressure to oppose the brake cylinder pressure introduced into said pilot valve structure upon the application of the brakes, and means to permit said latter pressure to slowly blow down to atmosphere in the release and lap positions of the pilot valve.

1,478,833. TIRE CASING. RAYMOND J. O'BRIEN, New York, N. Y., assignor to Morgan & Wright, a Corporation of Michigan. Filed Aug. 1, 1922. Serial No. 578,864. 7 Claims. (Cl. 152—13.)



7. A pneumatic tire casing consisting of plies of fabric and soft yielding vulcanized rubber composition between the fabric of at least one of which plies and a stratum of the soft and yielding vulcanized rubber composition is vulcanized rubber composition containing a percentage of magnesium carbonate rendering the same relatively stiff and substantially less stretchable than the soft vulcanized rubber composition.

1,478,834. MECHANISM FOR DISPENSING INGREDIENTS. LUIGI D'ONOFRIO, New York, N. Y. Filed July 17, 1920. Serial No. 397,115. 10 Claims. (Cl. 107—3.)



1. Mechanism for dispensing ingredients comprising a container for liquid, a sifter for pulverized material and operating parts some of which project into the path of a tray movable with respect to said container and said sifter and are controlled by said tray, to cause said container and said sifter to discharge into the tray as the latter passes the container and the sifter, and to cease to discharge after the tray has passed said container and said sifter.

5. Mechanism for dispensing ingredients comprising a container for liquid, a valve to enable the container to discharge said liquid, a lever mounted adjacent said container, a second lever connected to the first lever, a dog connected to the second lever, an arm to be actuated by said dog, a third lever connected to the valve and a rod extending to a remote point, said third lever and said rod being connected to be movable in unison to open the valve when said arm is moved by said dog and a lever having a projection to engage the distant end of said rod to actuate said third lever to operate the valve back to closed position.

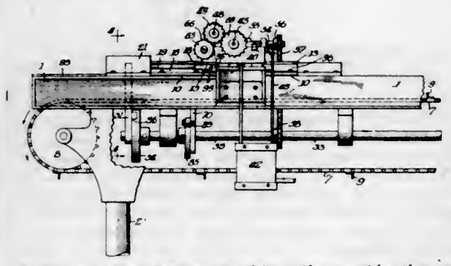
10. Mechanism for dispensing ingredients comprising a sifter for pulverized material, a rotatable ratchet wheel to actuate the sifter and cause the same to discharge into a movable tray, and parts controlled by the tray whereby the sifter is actuated only when the tray is moving past same.

1,478,835. RAZOR SHARPENER. JESSE L. PEACOCK and FREDERICK SAYLES, Chicago, Ill., assignors to Peacock Manufacturing Company, a Corporation of Illinois. Filed Feb. 3, 1919, Serial No. 274,710. Renewed July 9, 1923. 1 Claim. (Cl. 51—186.)



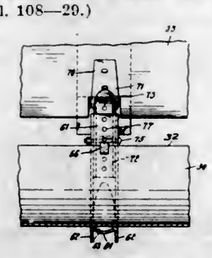
A razor sharpener comprising two opposed spring-held concentrically curved sharpening members arranged to be brought into close proximity to each other, substantially as described.

1,478,836. CARTON-SEALING APPARATUS. FRANK M. PETERS and WARREN H. HUNGERFORD, Chicago, Ill., assignors to Peters Machinery Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 16, 1920. Serial No. 431,084. 7 Claims. (Cl. 93—6.)



1. In a carton sealing machine, the combination of a carton chute, means for advancing cartons successively along the chute, guides for holding the carton covers in an upraised position as the cartons are advanced through the chute, a paste receptacle adjacent the chute having a paste roller for transferring paste from the receptacle to a flap on the edge of the carton cover as it is moved along the chute in the upraised position, an arcuate guide at one side of the chute beyond the paste-applying mechanism adapted to be engaged by the cover flap, and a member extending over the chute adjacent the arcuate guide and adapted to be depressed as each carton is moved thereunder so as to close the carton cover and move the cover flap downwardly along the arcuate guide and thereby insert the flap inside the carton against a side wall thereof, said member being adapted to remain in the depressed position as the carton is moved therebeyond.

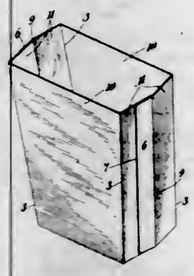
1,478,837. GUTTER HANGER. MAX RACHLIN, New York, N. Y. Filed Mar. 7, 1923. Serial No. 623,413. 1 Claim. (Cl. 108—29.)



A gutter-hanger including a gutter embracing strap made of a single sheet of metal and having a substantially U-shaped transverse cross-section throughout its length, the web portion of the U-shaped cross-section being provided with a depression throughout a substan-

tial portion of the strap to provide a strengthening rib, said depression being provided with a hole to permit egress of water from and ingress of air into said depression.

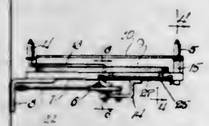
1,478,838. COLLAPSIBLE CUP. JAMES D. REIFSNYDER, Weehawken, N. J., assignor, by mesne assignments, to Paper Utilities Co., Inc., New York, N. Y., a Corporation of New York. Filed July 14, 1921. Serial No. 484,807. 5 Claims. (Cl. 229—53.)



1. A collapsible cup having side and end walls and a bottom on which it is adapted to stand when extended, the bottom having a bellows fold and the end walls, when the cup is collapsed in flat form, folding along vertical lines intermediate the side edges thereof, each end wall being formed of two vertically extending portions, one having a side flap lapped over and secured to the other, said other portion having a side flap extension adjacent the bottom thereof, bent over and secured between the lower outer part thereof and said first named flap

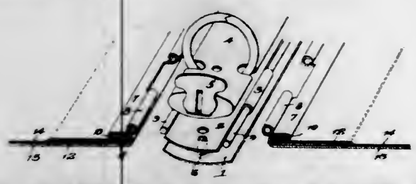
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1,478,839. BELT GUIDE AND SHIFTING MECHANISM. ALFRED A. SAMSON, Chicago, Ill. Filed Feb. 14, 1923. Serial No. 618,907. 7 Claims. (Cl. 64—4.)



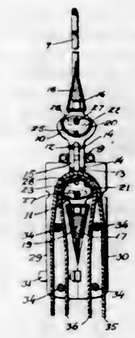
1. A combination belt guide and shifting device comprising a pair of spaced guide members adapted for arrangement at opposite edges of a belt, mechanism for shifting one of said members across the path of the belt, and means for shifting the other of said members axially at substantially right angles to the plane of the belt.

1,478,840. LOOSE-LEAF BINDER. JOHN SCHADE, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a Voluntary Trust Association of Copartnership. Filed Jan. 4, 1923. Serial No. 610,578. 4 Claims. (Cl. 129—24.)



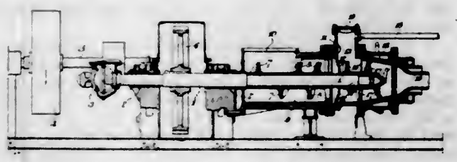
1. In a loose leaf binder comprising a back and separate side covers, a thin metal plate secured to said back and having spaced sockets formed at each of its side edges, thin metal side plates whose inner portions have reversely bent parts to provide oppositely opening upper and lower pockets, the inner edges of said side plates having spaced sockets that are complementary to the first named sockets, the inner edges of the side covers being housed within the upper pockets the covers being then flexed around the side plates and extended immediately beneath the same, the cover linings having their inner edges housed within the lower pockets and then adherently secured upon the upper faces of the side plates whereby the latter are united to the covers, the pocket walls of the side plates being firmly compressed against the covers and linings to securely bind them in position, and a pintle inserted through said complementary sockets whereby the covers and back of the binder are connected.

1,478,841. RAZOR DOUBLE STROPPING MACHINE. HARRY SEIGMAN, New York, N. Y. Filed Nov. 28, 1922. Serial No. 603,738. 5 Claims. (Cl. 51—63.)



5. In a device of the character described the combination of a pair of blade holders extending in opposite directions, a pair of strops of different character extending intermediate said blade holders, and means controllable by the operator for bending said pair of strops in opposite directions, so as to first bring one of the strops into proximity to one of the blade holders, and then to bring the other of said strops into proximity to the other of said blade holders.

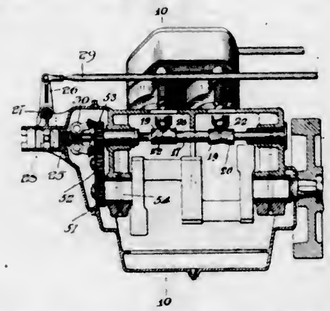
1,478,842. METHOD AND MEANS FOR WORKING CLAY. RALEIGH H. STALEY, Springfield, Ill., assignor to Chambers Brothers Company, a Corporation of Pennsylvania. Filed May 23, 1922. Serial No. 562,966. 9 Claims. (Cl. 25—11.)



1. The method of treating clay, which consists in introducing the clay in a plurality of relatively small streams into an enclosed space, exhausting the air from said space and then extruding the clay therefrom.

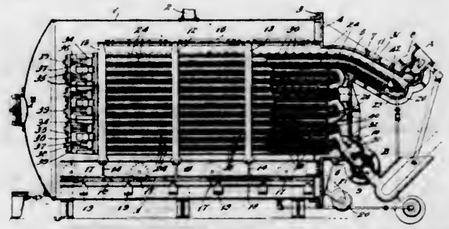
3. In a device of the character described, the combination of means forming an enclosed chamber provided with an extrusion orifice, means for forcing clay into said chamber in a plurality of separated streams, means for exhausting air from said chamber and means for extruding the clay therefrom.

1,478,843. VALVE-CONTROLLING MECHANISM. WOLFGANG TURNWALD, Syracuse, N. Y., assignor to Stumpf Una-Flow Engine Company, a Corporation of New York. Filed May 12, 1917. Serial No. 168,256. 9 Claims. (Cl. 121—167.)



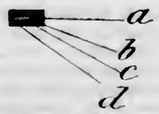
1. Valve controlling mechanism for steam engines, comprising a governor, a rotatable and longitudinally movable cam shaft provided with valve actuating tapered cam formations, means for rotating the cam shaft relatively to engine speed, means operated arbitrarily and independently of the governor, for moving the cam shaft longitudinally, comprising an actuating member and a spring cooperating therewith under its initial tension, the governor adapted to shift the cam shaft against said initial tension upon predetermined engine speed.

1,478,844. CONVEYER. JAMES A. ANDERSON, Morgan, Utah. Filed Oct. 20, 1919. Serial No. 331,947. 1 Claim. (Cl. 198—84.)



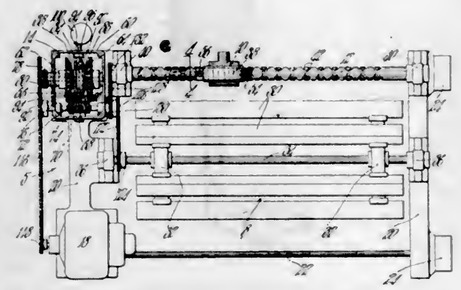
A heating chamber with inlet and discharge openings, a series of continuous superposed conveyers traveling in said chamber in alternately opposite directions, article supporting sleeves carried by the conveyers, said chamber being provided with a vertical head forming an end wall thereof, the inlet receiving end of the conveyer system projecting downwardly beyond the outlet conveyer, article feeding and ejecting devices for the conveyer system both being supported by and located on the outside of said vertical head and communicating with the conveyers within the heating chamber, the said downwardly projecting inlet being provided with an extension for housing the conveyer and inlet feeding device.

1,478,845. ELECTRIC FUSE, HEATING ELEMENT, AND THE LIKE. ARTHUR FRANCIS BERRY, London, England. Filed Aug. 24, 1920. Serial No. 405,586. 5 Claims. (Cl. 219—63.)



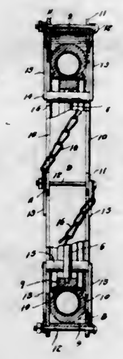
1. An electrical heating element comprising a conductor formed of a high resistance metal having a high melting point and of a cross sectional area as small as is feasible to secure the desired heating and augmented in thickness with metal of relatively high conductivity except at the region thereof that it is required shall become electrically heated when in use, substantially as described.

1,478,846. CLOTH-PILING MACHINE. PAUL WINSHIP BIDWELL, Easthampton, Mass., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass., a Corporation of Massachusetts. Filed Sept. 26, 1922. Serial No. 590,725. 6 Claims. (Cl. 8—19.)



1. In a cloth piling machine, a rotatable cloth feeding drum, a piling eye movable longitudinally of said drum, means for supporting and guiding the piling eye, a carriage on which said drum and piling eye are mounted, a driving shaft, means driven from said shaft for reciprocating the piling eye on said supporting and guiding means and for moving the carriage alternately in opposite directions at right angles to the path of the piling eye, and separate driving connections between said shaft and said drum for rotating the drum.

1,478,847. NONSKID DEVICE FOR AUTOMOBILES. GEORGE F. CRASS, Ithaca, N. Y., assignor of one-half to John H. McCormick, Ithaca, N. Y. Filed Apr. 14, 1923. Serial No. 632,061. 2 Claims. (Cl. 152—14.)



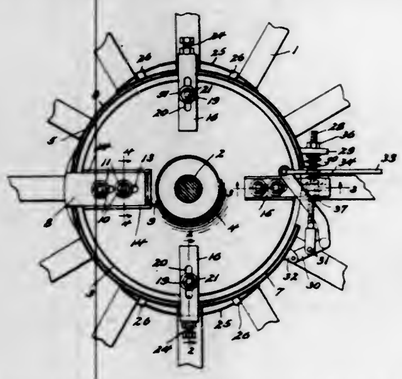
2. In a traction casing for pneumatic tires, an annular tread band, independent annular side plates having radially outwardly projecting lugs, said side plates engaging opposite side edges of said band, the lugs on one plate being transversely alined with the lugs on the other plate, clamping bolts extending between alined lugs positioned outwardly of the tread surface of said band, flexible traction increasing elements carried by the opposite ends of adjacent clamping bolts, and means pivotally carried by said clamping bolts for retaining said casing in position upon said tire.

1,478,848. LUBRICANT COMPRESSOR. NORMAN W. CUMMINS, Bridgeport, Conn., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 2, 1921. Serial No. 441,745. 6 Claims. (Cl. 285—91.)



6. A lubricant compressor comprising a receptacle for holding lubricant, a rigid discharge conduit rigidly connected therewith, the free end of said conduit being bent at an angle thereto and ending in a member having a lubricant discharge opening, a flexible gasket extending over a portion of said member in spaced relation, and means for making a detachable connection with a lubricant receiving device, the said connecting means comprising means for holding said gasket against one face of said lubricant receiving device and being mounted to move in a plurality of directions relatively to said member.

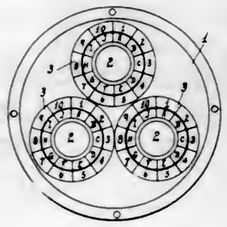
1,478,849. BRAKE BAND. WILLIAM L. DARNELL, Franklin, Tenn. Filed Apr. 5, 1922. Serial No. 549,773. 4 Claims. (Cl. 188—77.)



1. A vehicle brake, comprising a rotary drum, a band surrounding the same, a clamp integral with the band, an axle housing and means for detachably securing the clamp to the axle housing.

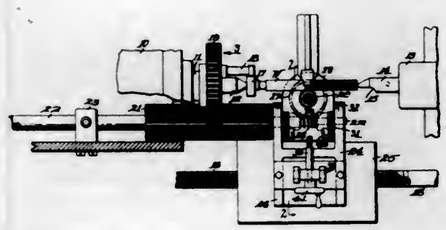
1,478,850. AUTOMOBILE LOCK. ABNER F. H. DAVIS, Oakland, Calif. Filed Apr. 14, 1920. Serial No. 373,802. 2 Claims. (Cl. 200—43.)

1. A device of the character disclosed including a plurality of independent shafts, two sets of disks including a pair of disks on each of said shafts, two sets of bus bars, one set of bus bars engaging one set of the disks on said shafts, the other set of bus bars engaging the other set of disks, contact lugs on each disk for engaging a bus bar, each set of bus bars being included in a circuit, the lugs on said disks being arranged so that



when the lugs of one set of disks engage a set of bus bars, the lugs on the other disks are out of engagement with the other bus bars, the arrangement of one set of discs and bus bars being such that upon rotation of any member of said set the circuit for said set will be set to be closed.

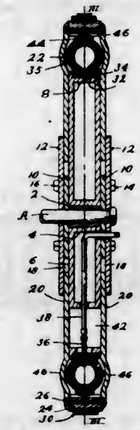
1,478,851. SCREW-CUTTING MACHINE. WILLIAM C. FARNUM, Fitchburg, Mass. Filed July 26, 1921. Serial No. 487,800. 2 Claims. (Cl. 10—102.)



1. A screw cutting machine comprising a support for the work, means to rotate the work, a carriage, a toothed cutter rotatable on said carriage at the side of the work with its axis substantially perpendicular to the work axis, means to rotate said cutter, means to move said cutter carriage axially of the work, and manual means to feed the cutter toward the work, said cutter rotating means comprising a worm gear connected to turn said cutter, a worm meshing therewith, a worm shaft rotatably mounted in said carriage and movable axially therewith, an elongated pinion fixed on said worm shaft, a driving gear engaging said pinion in every axial position thereof, and means to rotate said driving gear in fixed relation to the rotation of the work.

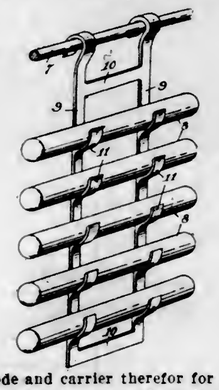
1,478,852. VEHICLE WHEEL. WARREN S. GAUNTT, Waldron, Mo. Filed Jan. 30, 1922. Serial No. 532,813. 1 Claim. (Cl. 152—35.)

In a wheel of the character described, a hub, a felly, tubular spokes connecting said hub and felly, a demountable rim on said felly, a resilient tire mounted upon said rim, an outer rim surrounding said resilient tire, annular plates connected to said outer rim and slidably engaging the spokes to permit compression of the resilient tire, disks secured to the spokes and of less diameter than the inner periphery of said annular plates to leave



working room therefor, circular plates secured to said disks and overlapping the annular plates and a tire mounted upon the outer rim.

1,478,853. ANODE AND CARRIER THEREFOR. HARRY L. HAAS, New York, N. Y. Filed Sept. 17, 1920. Serial No. 411,023. 8 Claims. (Cl. 204—4.)



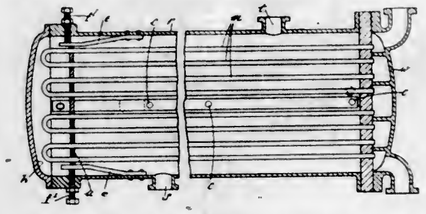
1. In an anode and carrier therefor for use in the electrodeposition of metals, an anode unit consisting of a series of elements of the metal to be deposited, and means to support the anode elements in separated relation and connect the same in circuit with the positive pole of an electric current, said carrier being constructed of a material having the property of being a good electric current conductor and immune from the electrolytic action of the bath.

1,478,854. D OR STIRRUP-SHAPED HANDLE. EDWARD COPLEY HEATON, Harrogate, England. Filed July 14, 1922. Serial No. 575,000. 2 Claims. (Cl. 294—57.)



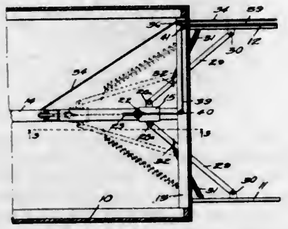
1. A stirrup-shaped handle for shovels formed from a flat sheet metal blank having a central horizontal tubular portion, a side member at each end of the tubular portion which is turned down and bent to shape, a pair of protuberances at each end of the tubular portion for retaining the side members in position, and a half socket formed on the lower end of each side member, said side sockets having holes formed therein for attaching the handle to the shaft of the shovel as set forth.

1,478,855. BOILER-FEED WATER HEATER. WILHELM HILDEBRAND, Berlin-Lichtenberg, Germany, assignor to Handel Maatschappij H. Albert De Bary & Co., Amsterdam, Netherlands, a Dutch Company. Filed Aug. 26, 1921. Serial No. 495,509. 8 Claims. (Cl. 257—239.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a feed water preheater, a shell, a tube plate within said shell, a plurality of water tubes penetrating said plate, said plate and tubes being conjointly movable longitudinally in relation to said shell, and guide ribs secured to said shell longitudinally thereof, said guide ribs being adapted to maintain supporting contact with said plate during its longitudinal movement and in its operative position.

1,478,856. DOOR-CONTROL DEVICE. JAMES H. HOCKENBERRY, Winterset, Iowa. Filed Nov. 20, 1922. Serial No. 602,204. 2 Claims. (Cl. 268—9.)

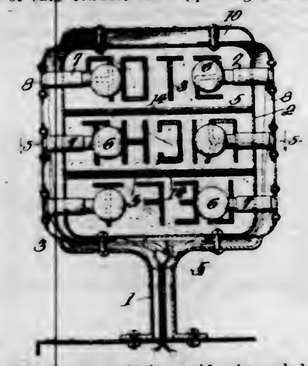


1. The combination of a building structure, having a pair of hinged doors, a frame member, a bracket slidably mounted on said frame member, links pivoted to said bracket and to said doors, spring actuated catch members on said bracket, engaging members on said frame member for coacting with the catch members, guide elements and flexible devices connected with the respective catch members and extended around said guide members to points outside the building structure for pulling the bracket in different directions for opening and closing the doors, springs connected with said doors between the hinge lines thereof and the points where said links connect with said doors, and loop devices for connecting the spring with the respective links by frictional engagement with the links.

1,478,857. AUTOMOBILE SIGNAL. CARL HOFFMAN, Allentown, Pa. Filed Mar. 31, 1923. Serial No. 629,143. 2 Claims. (Cl. 177—329.)

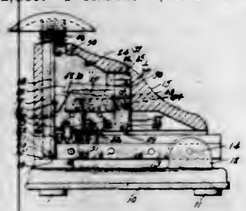
2. An annunciator for motor vehicles including a frame with openings in the front and rear, horizontally disposed spaced apart partitions forming compartments in said frame, such partitions being provided with reflecting surfaces, transparent plates adapted to close the openings of said frame and upon which traffic signals are indicated, moldings for securing said plates in position, means for preventing rattling between said plates and said horizontally disposed partitions, a cap piece carried by said frame and adapted to impart and engage said moldings to hold them in position, a channeled member attached to each side of said frame, lamp sockets carried by said members and respectively disposed in the compartments formed by said partitions, a conduit communicating

with said channeled members, a spindle forming a continuation of said conduit for supporting said frame on a



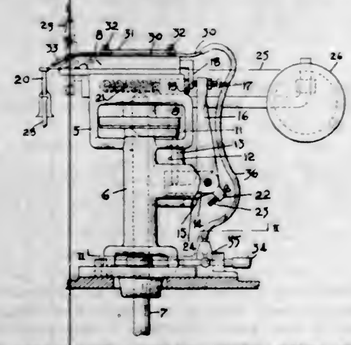
part of the motor vehicle, said channeled members, conduit, and spindle being adapted to carry wires for supplying current to said lamps.

1,478,858. STAPLE-DRIVING MACHINE. JULIA S. HOTCHKISS, Norwalk, Conn. Filed Aug. 17, 1922. Serial No. 582,365. 8 Claims. (Cl. 1—2.3.)



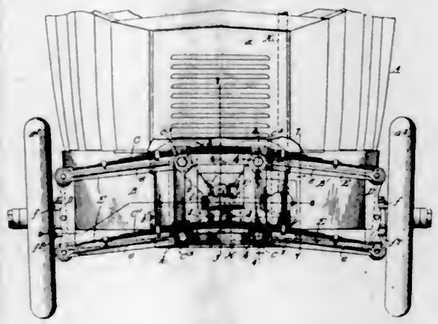
4. In a strip staple machine having a reciprocating plunger for severing and clinching the individual staples, in combination, staple strip feeding means comprising a reciprocally mounted block, staple strip engaging means mounted on the block, coacting means carried by the plunger and strip engaging means to remove said latter means from engagement with the strip, coacting means on the plunger and block adapted to then move the block rearwardly and allow the strip engaging means to move into engagement with the strip, and means for then moving the block forwardly to advance the strip.

1,478,859. METHOD AND APPARATUS FOR INSERTING SUPPORT WIRES. FREDRICK CHARLES INGOLD, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed July 21, 1921. Serial No. 486,425. 21 Claims. (Cl. 176—3.)



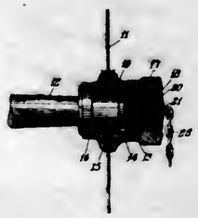
1. A wire-inserting member having means associated therewith for directing a fluid upon a predetermined portion of the work.

1,478,860. VEHICLE CONSTRUCTION. JOSEPH S. PARENTI, Buffalo, N. Y., assignor to Parenti Motors Corporation, Buffalo, N. Y. Filed Aug. 28, 1920. Serial No. 406,687. 35 Claims. (Cl. 280—124.)



1. In a vehicle, the combination with the wheels and body thereof, of a wheel carrier for each wheel, spacing members which are pivotally connected to said wheel carriers and said body and space said wheel carriers at definite distances from said body, and springs extending transversely of said body and having their ends connected to oppositely disposed wheel carriers above and below the wheel axles, whereby under normal conditions the weight of the body is transmitted to the wheels substantially independently of said spacing members.

1,478,861. HUBCAP FOR CHARTS. CHARLES W. PETITJEAN, Union City, Conn., assignor to The Bristol Company, Waterbury, Conn., a Corporation of Connecticut. Filed Feb. 14, 1923. Serial No. 618,910. 3 Claims. (Cl. 234—1.)



1. A chart retaining member, comprising: a base member having a multiple-threaded shank, a flanged sleeve fitting over the threaded shank to expose an outer portion thereof only, the exposed threads remaining perfect to the outer end of the sleeve, a hollow cap member having a flange to cooperate with the flange of the sleeve in holding a chart and having a smooth inner wall portion to fit over the said sleeve, and threaded at the inner end for engagement with the multiple threads of the shank, the sleeve centering the cap and guiding its threaded portion to the threads of the shank so that all will start simultaneously as the cap is rotated.

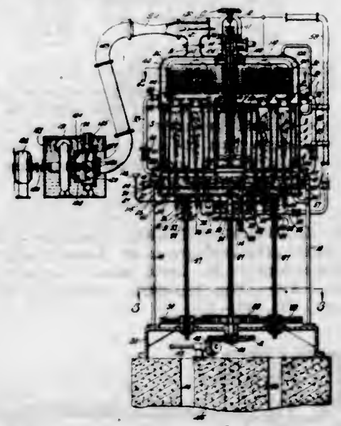
1,478,862. ART OF UNITING GLASS AND CELLULOID. HARRY ROSENTHAL, New York, N. Y. Filed Feb. 7, 1920. Serial No. 356,878. 5 Claims. (Cl. 40—81.)

1. The art of uniting glass and celluloid which consists in coating a surface of a piece of glass with glue, permitting the glue coating to dry, softening the exposed surface of the coating with a glue solvent, softening a surface of a piece of celluloid by coating it with a liquid which is not a solvent for the glue or the celluloid but which will effect a softening of the latter, and pressing the softened surfaces of the glass and celluloid together



by a pressure which is applied first at the central portion of the parts and thereafter extended to the edge portions thereof.

1,478,863. PROCESS AND MACHINE FOR REFRIGERATION. WILLIAM STEWART, Portland, Me. Filed May 16, 1921. Serial No. 469,903. 44 Claims. (Cl. 62—172.)



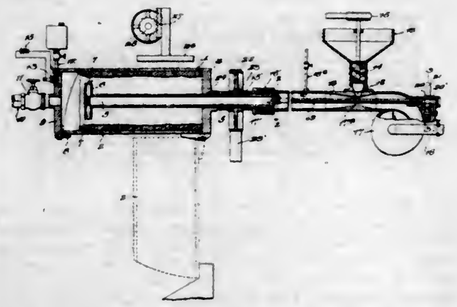
7. The process which consists in continuously circulating a body of liquid, spraying the liquid at one portion of its path, removing the vapor produced by said spray to induce further vaporization and to chill the liquid and congeal a portion thereof, and collecting the congealed portion.

8. In a refrigerating machine, a container having external corrugations thereon arranged at acute angles to one of its dimensions, and means for circulating a refrigerant about said container in the general direction of said dimension.

31. An apparatus having a table comprising a supply tank and a pressure tank, means for forcing liquid from said supply tank to said pressure tank, a nozzle forming an outlet for said pressure tank, an open ended casing, an open ended cell in said casing, means to move said table to bring it into and out of sealing engagement with the open end of said casing with said nozzle extending toward the open end of said cell, and means for maintaining a vacuum in said casing and cell when said table is in sealing engagement with said casing.

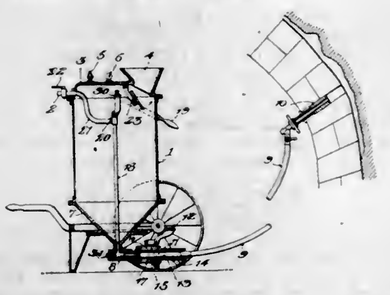
44. An apparatus comprising an open ended cell, a spray nozzle positioned to spray into said cell, and a testing rod passing through said nozzle and axially movable, its outer end being accessible to an operator for actuation and its inner end being projectable into and withdrawable from said cell.

1,478,864. PROCESS OF PRODUCING COKE. WALTER E. TRENT, Washington, D. C., assignor to Trent Process Corporation, Washington, D. C., a Corporation of Delaware. Filed Feb. 21, 1920. Serial No. 360,451. 10 Claims. (Cl. 202—8.)



10. The process of producing coke, consisting in subjecting moving particles of new coal to a heat treatment to distill the volatiles therefrom and to place the residue of said particles in a viscous condition, and in then depositing the particles upon a collecting surface against which said particles are projected with sufficient force to cause them to adhere to one another and form a coherent mass of coke.

1,478,865. MACHINE FOR INJECTING PLASTIC MATERIALS. CARL WEBER, New York, N. Y., assignor to Weber Engineering Corporation of New York, N. Y., a Corporation of New York. Filed Mar. 5, 1923. Serial No. 623,027. 3 Claims. (Cl. 83—73.)

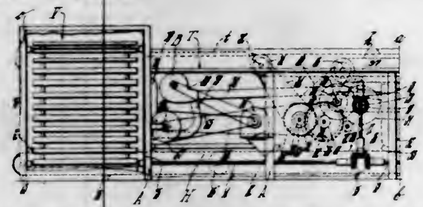


1. A machine of the class described, comprising a container having an outlet for material at its bottom, a vertical pipe having its lower end adjacent said outlet, flexible means to convey fluid under pressure into the upper end of said pipe, and manually operable means to raise and lower said pipe, whereby the discharge through said outlet is controlled and the material in the bottom of the container is kept agitated.

1,478,866. CANDY-MAKING APPARATUS. ALONZO LINTON BAUSMAN, Chicopee, Mass., assignor to National Equipment Company, Springfield, Mass., a Corporation of Massachusetts. Filed Dec. 2, 1920. Serial No. 427,781. 8 Claims. (Cl. 198—20.)

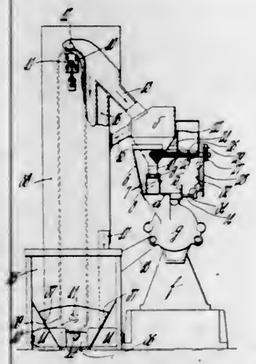
1. In apparatus of the class described, a frame, a packing table, a vertical conveyer into which trays are fed and carried downwardly below said table, a second vertical conveyer to carry trays upwardly to substantially the level of said table, intermediate vertical conveyers below the table and between the first and second conveyers to carry trays upwardly and downwardly and assist inn their transitiou from the first to the second

named vertical conveyers, horizontally operable transferring means to transfer trays from one conveyer to another and complete said transition of the trays, and driving mechanism to operate all said conveyers and said transferring means.



8. In apparatus of the class described, a frame, two endless conveyers mounted in spaced parallel relation, and means provided at spaced intervals on said conveyers to support the ends of trays disposed between the adjacent laps of said conveyers, one of said conveyers being mounted in said frame for movement bodily away from the other conveyer to permit access to the space therebetween.

1,478,867. FEEDING MECHANISM FOR REDUCING APPARATUS. ALONZO LINTON BAUSMAN, Springfield, Mass., assignor to National Equipment Company, Springfield, Mass., a Corporation of Massachusetts. Filed Dec. 30, 1921. Serial No. 526,024. 5 Claims. (Cl. 83—8.)



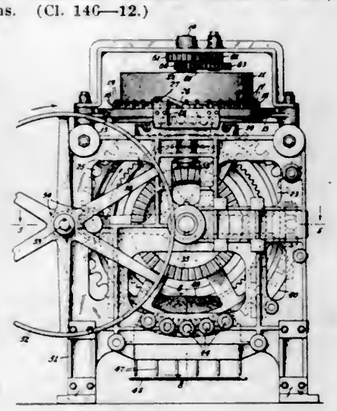
1. In apparatus of the class described, two spaced members having reducing surfaces on their adjacent faces, an element between said members having reducing surfaces on each face to cooperate with the first-named surfaces in reducing material fed therebetween, spaced chutes into which material is supplied and by which it is directed between the cooperating reducing surfaces, a stationary feeding hopper having an outlet gaged to permit discharge of material by gravity at a measured rate of flow, an oscillatory directing device upon which the material from said hopper is received and by which it is directed alternately into said chutes, and means to feed a measured quantity of another material into said hopper at each oscillation of said device.

1,478,868. SOLDERING IRON. ANTON E. BUTKOVICH, Chicago, Ill. Filed May 11, 1922. Serial No. 560,196. 4 Claims. (Cl. 158—26.)



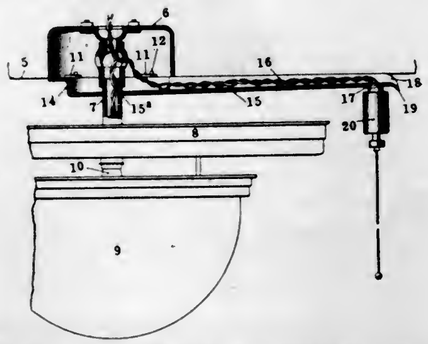
3. A soldering iron including a conduit through which a flame is adapted to be directed and having a perforated end portion, a soldering bit at the end of the conduit and provided with an annular recess, and a member surrounding the conduit and having serrated edge portions engaging the recess.

1,478,869. NUT-TREATING MACHINE. SIMON COOPER, New York, N. Y., assignor to The Franklin Baker Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 4, 1919. Serial No. 287,457. 29 Claims. (Cl. 140—12.)



1. In a machine of the character described, means at a relatively fixed station for applying endwise pressure to nuts, and a constantly moving feed wheel for transferring nuts to said pressure-applying means provided with pockets supporting the nuts with their ends protruding for engagement by said pressure-applying means as they are carried therebetween.

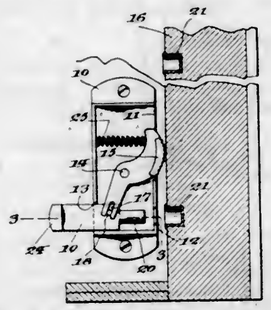
1,478,870. LIGHTING FIXTURE. CLEMENS J. DREES, Little Rock, Ark., assignor to St. Louis Brass Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 18, 1920. Serial No. 404,395. 5 Claims. (Cl. 247—1.)



3. In an electric fixture, the combination with an outlet box, of a cover for said box, and an open top channelled arm carried by said cover and extending laterally therefrom with its top in contact with the ceiling, said arm serving as a conduit for the reception of a control wire.

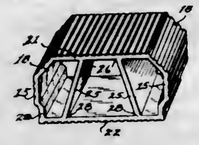
1,478,871. WINDOW LOCK. ALFRED W. EMERSON, Millbridge, Me. Filed Nov. 28, 1921. Serial No. 518,359. 3 Claims. (Cl. 292—5.)

1. A combined sash holder and lock comprising a casing, a cam member in the casing for engagement with a window sash, a locking bolt operatively engaged with the cam for movement of the cam out of engagement with the window sash upon initial movement, and for



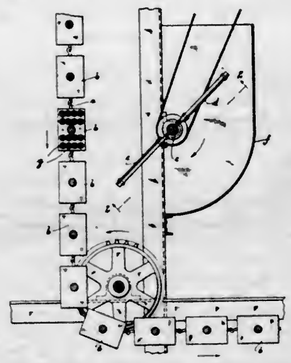
positive locking engagement with the sash upon further movement, and means on the locking bolt for engagement with the casing to hold said bolt in locking position.

1,478,872. FLOOR TILE AND FLOOR CONSTRUCTION. GERALD G. GREULICH, Cleveland, Ohio. Filed July 5, 1921. Serial No. 482,524. 5 Claims. (Cl. 72—66.)



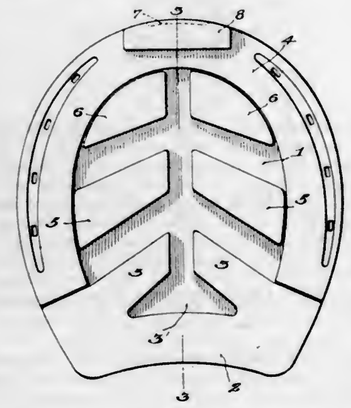
2. A one-piece building tile having the ends thereof open and having parallel top and bottom surfaces with sides extending therebetween, the top and bottom surfaces terminating short of the extreme width, whereby the central portion overhangs the bottom, said central portion lying in a plane at right angles to the top surface, and an oblique surface joining the top and central portions.

1,478,873. CORK-ROD BAKER. PAUL HARRICH, Rochelle Park, N. J., assignor to New Process Cork Company, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 25, 1921. Serial No. 510,370. 3 Claims. (Cl. 18—5.)



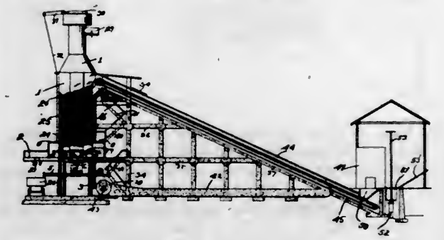
3. A cork rod baker embodying therein an oven wherein a high temperature is maintained means adapted to convey tubes containing a composition formed of granular cork and a binder through said high temperature zone, a rotatable shaft driven at high speed, a plurality of fan blades carried thereby and extending transversely of the oven an open topped housing in which air is adapted to be placed under low compression by said fan blades successively prior to its delivery adjacent said tubes and guiding means for said first named means positioned beyond said oven and extending adjacent the outlet of said housing, whereby cool air is directed against the tubes after they have left the oven and as they approach the delivery point.

1,478,874. HORSESHOE PAD. JAMES C. LAW, Scranton, Pa. Filed June 10, 1922. Serial No. 567,306. 3 Claims. (Cl. 168—28.)



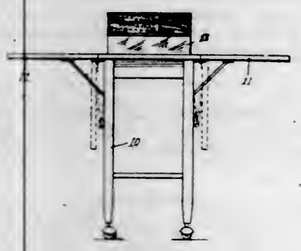
3. The combination of a horseshoe and a pad therefor, said pad comprising a body lying against the upper side of the shoe and provided with mutually independent nonskid projections lying within the space bounded by the horseshoe, the outer sides of the projections lying adjacent the inner periphery of the shoe and normally accessible for trimming to fit within the shoe, said projections being spaced to define a longitudinal clearance channel and oblique open-ended clearance channels.

1,478,875. GARBAGE DESTRUCTOR. HERMAN T. LUDWIG, San Francisco, Calif. Filed Jan. 24, 1922. Serial No. 531,371. 3 Claims. (Cl. 110—8.)



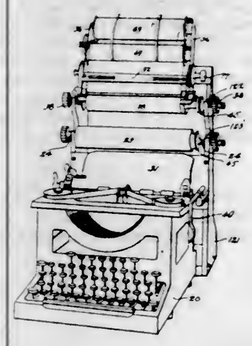
1. In a garbage destructor a vertical stack, a fire brick lining for the stack spaced therefrom, grate bars at the bottom of the stack for holding the weight of material piled therein, a fan for causing a down-draft in the stack outside the fire brick lining, a carrier for delivering garbage to the top of the stack, a conduit extending from the fan to said carrier for the delivery of hot air to the garbage to dry the same prior to its delivery to the stack, and a plurality of doors at the level of the grate bars for the removal of the ashes.

1,478,876. SORTING TABLE OR FILE-DISTRIBUTING DEVICE. DWIGHT G. MCCARTY, Emmetsburg, Iowa. Filed June 8, 1920. Serial No. 387,449. 1 Claim. (Cl. 129—16.)



In a sorting device of the class described, a container having a plurality of rear compartments of different sizes as to width, a plurality of similar forward compartments, a group of separator sheets for each compartment, each group being freely removable from its compartment, a flexible member extended through each group of sheets in the form of a loop, whereby the sheets of each group are freely slidable upon two stretches of each flexible member, each rearward compartment having a higher bottom than each forward compartment.

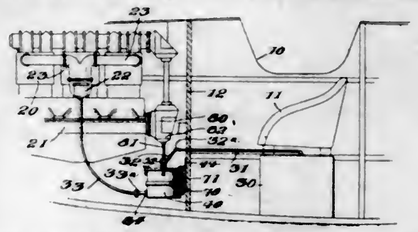
1,478,877. TYPEWRITING MACHINE. CLIFFORD W. MARSH, Bridgeport, Conn. Filed July 5, 1922. Serial No. 573,030. 34 Claims. (Cl. 197—133.)



1. In a manifolding attachment for writing machines having a reciprocating mechanism and means to removably connect a platen with said reciprocating mechanism, a carrier adapted to be removably connected with said reciprocating mechanism and comprising in combination as a unit, a rotatable platen, and means for holding an original and one or more copy worksheets upon said platen when said carrier unit is removed from the machine.

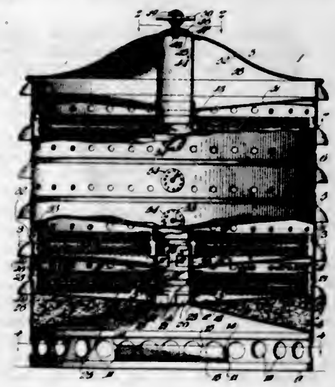
1,478,878. FUEL-SUPPLY SYSTEM. STANLEY M. METZ, Langley Field, Va. Filed Jan. 26, 1922. Serial No. 531,891. 12 Claims. (Cl. 158—36.)

1. A fuel supply system embodying a fuel supply tank, a fuel line from said tank to a point of fuel consumption, a chamber formed in said supply line, and a bowl rotatably supported in said chamber and arranged to receive and discharge fuel therefrom, the said bowl



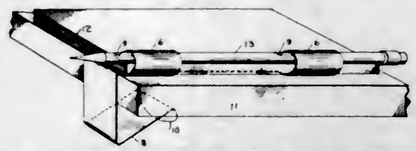
when rotated adapted to remove foreign matter from fuel passing therethrough by the action of centrifugal force.

1,478,879. SECTIONAL DEHYDRATOR. WILLIAM B. NICHOLS, Haddon Heights, N. J., assignor of one-half to Thomas E. Benson, Audubon, N. J. Filed Aug. 4, 1922. Serial No. 579,753. 11 Claims. (Cl. 34—22.)



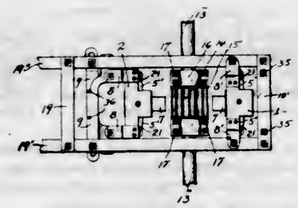
1. In a device of the character stated, a base section provided with a plurality of ports in the wall thereof, a water holding tray carried by said base section, a central flue for said base section, an upwardly inclined deflecting wall in the upper portion of said base section, a baffle plate wall above said first-named wall whereby a chamber is formed between said walls, and heat resisting material located in said chamber.

1,478,880. PAD HOLDER. ARTHUR OTTERBEIN, Middletown, Conn., assignor to The Kirby Manufacturing Company, Middletown, Conn., a Corporation of Connecticut. Filed Mar. 22, 1923. Serial No. 626,868. 4 Claims. (Cl. 24—259.)



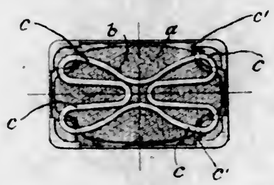
1. A pad holder former from a single piece of sheet metal having a relatively long and narrow body portion, one end of said body portion being bent at right angles thereto with a relatively spaced free end projecting toward said body portion to provide a spring gripping member for attachment to the edge of a table top, and spring tabs formed on the side edge of said body portion overlying the body portion to provide gripping members for holding a pencil and pad.

1,478,881. RAILWAY BRAKE. BARTOLOMEO AMENDOLA, San Francisco, Calif. Filed Nov. 15, 1921. Serial No. 515,281. 4 Claims. (Cl. 188—60.)



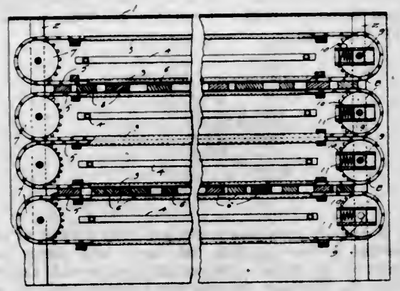
1. A brake for railway vehicles comprising the combination with a car axle of a notched wheel carried thereby, a pair of casings on opposite sides of the axle, a brake shoe adapted to engage the notched wheel carried by each casing, springs for holding the brake shoes in a central position, and means to advance both casings and the brake shoes carried thereby toward the notched wheel for engagement therewith to stop the vehicle.

1,478,882. REENFORCED SOAP. MARCEL BAILLY, Paris, France. Filed Dec. 14, 1920. Serial No. 430,724. 4 Claims. (Cl. 87—23.)



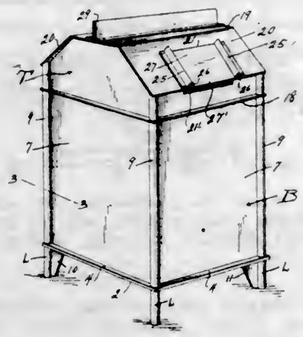
1. The combination of a cake of soap and a reinforcing member therefor, said reinforcing member being embedded in the soap, said soap having a re-entrant portion exposing a portion of the reinforcing member, said exposed portion being adapted for the attachment of securing means thereto.

1,478,883. CHAIN-CARRIER MECHANISM FOR DRY KILNS. JOHN B. BARROW, Macon, Ga. Filed June 16, 1920. Serial No. 389,421. 2 Claims. (Cl. 198—162.)



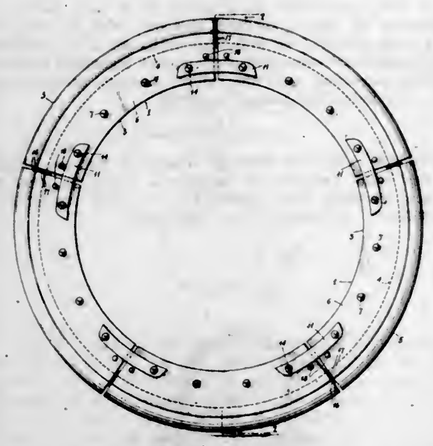
1. A lumber carrier mechanism for a dry kiln consisting of endless conveyors, means to drive the conveyors, said conveyors being arranged with the lower run of one of them substantially parallel with, opposite and spaced from the upper run of the other conveyor so that said runs may engage and convey material, and elongated parallel races disposed one above the other and one engaging the under surface of said upper run and the other engaging the upper surface of said lower run, whereby warping of the lumber as it travels through the kiln is avoided.

1,478,884. WASTE RECEPTACLE. JOHN A. BECKER, Nampa, Idaho. Filed July 8, 1922. Serial No. 573,599. 8 Claims. (Cl. 220—1.)



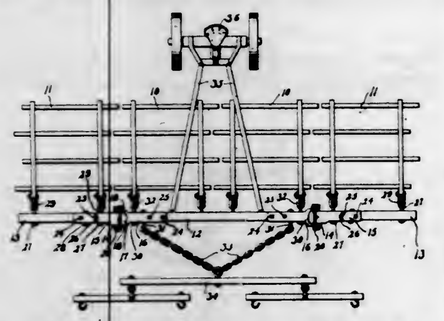
1. A receptacle of the class described comprising a body provided with side walls, outstanding flanges carried by the body between adjacent side walls, panels overlying the side walls, said panels having flanges positioned adjacent the flanges of the body, and members straddling the flanges of the body and engaging the flanges of the panels for holding the panels applied to the body.

1,478,885. EMERGENCY SECTIONAL TIRE. ALBERT S. BROWN, Omaha, Nebr. Filed Sept. 30, 1922. Serial No. 591,585. 7 Claims. (Cl. 152—23.)



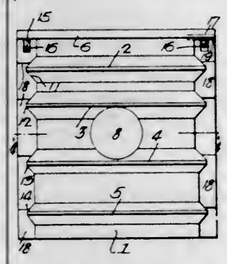
1. An emergency sectional tire comprising a plurality of arcuate sections, each section being formed of a rigid rim-engaging part and a resilient road-engaging shoe, said rigid part being provided with slots opening in the ends thereof, fastening means passing through a bore in said shoe and into said slots, a fixed element intersecting said slots to which said fastening means is secured, and means for securing the tire sections.

1,478,886. ATTACHMENT FOR HARROWS. EARL BROWN, Laurel, Iowa. Filed Nov. 2, 1922. Serial No. 598,597. 3 Claims. (Cl. 55—84.)



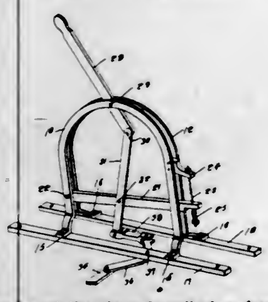
1. In a harrow, the combination with harrow sections including separate draft bars, of means for hingedly and adjustably connecting adjacent ends of the draft bars.

1,478,887. PISTON. PERCY BUTCHER, Jacksonville, Fla. Filed Apr. 6, 1922. Serial No. 550,077. 6 Claims. (Cl. 74—108.)



1. The combination in a piston of a body having a plurality of conical surfaces thereon; with an expanding shell mounted on said body made up of a plurality of independent segmental sections and including inclined surfaces coacting with the conical surfaces of the body to form fluid-tight joints therewith.

1,478,888. SWITCH STAND. ROBERT T. BUTLER, Flushing, Ohio, assignor of one-half to Harry E. Thompson, Flushing, Ohio. Filed Apr. 21, 1923. Serial No. 633,790. 4 Claims. (Cl. 246—410.)

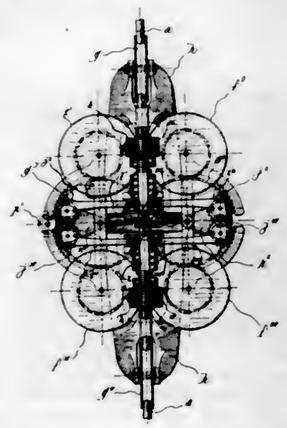


1. In a device of the class described, a frame, an operating lever pivoted thereon, a second lever pivotally connected with the operating lever, an arm pivotally connected at one end with the frame, the opposite end of the arm being resiliently held in an approximately horizontal position, means for pivotally connecting the second lever with said arm, a switch rod, and means for connecting the latter with the lower end of the second lever.

1,478,889. PROCESS OF PURIFYING GASES FOR AMMONIA SYNTHESIS. IVAR WALFRID CEDERBERG, Berlin-Steglitz, Germany, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Filed Oct. 5, 1923. Serial No. 666,850. 5 Claims. (Cl. 23—10.)

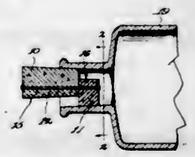
1. Process of purifying gas for the synthetic production of ammonia which comprises freeing the gas mixture from impurities by treatment with a solution of an alkali forming metal in liquid ammonia.

1,478,890. HAULAGE AND LIKE SYSTEM AND APPARATUS. LOUIS JOSEPH JEAN BAPTISTE CHÊNEAU, Paris, France. Filed Feb. 3, 1921. Serial No. 442,198. 6 Claims. (Cl. 105—30.)



1. A grip device for cable-tractor systems comprising a motor, a plurality of rotary tractive elements driven thereby, for gripping a cable and travelling relative thereto, and means to impart equalized pressure to said cable through said tractive elements through a range of variations in the thickness of said cable.

1,478,891. STOPPER. MASON COMBS, Pineville, Ky. Filed Sept. 27, 1922. Serial No. 590,868. 6 Claims. (Cl. 215—58.)

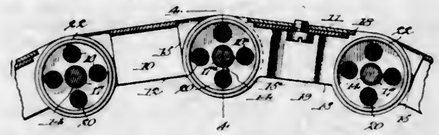


1. A stopper including a stopper body formed of complemental sections having flat faces, and means independent of the sections extending therethrough and connecting the sections for relative rotation whereby said faces may be disposed to define a fluid outlet passage.

1,478,892. SMOKELESS PROPELLANT POWDER. TENNEY L. DAVIS, Somerville, Mass. Filed Apr. 16, 1921. Serial No. 461,980. 8 Claims. (Cl. 52—13.)

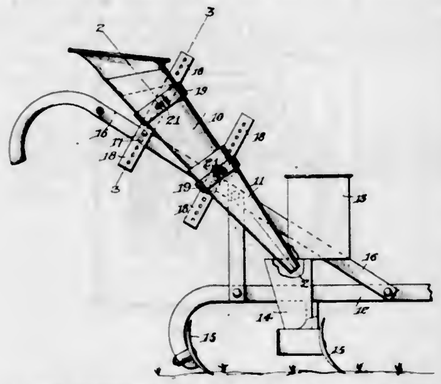
1. A propellant powder, comprising pentaerythrite tetranitrate and a derivative pentaerythrite.

1,478,893. RIM FOR VEHICLE WHEELS. CHARLES F. ERICKSON, Brooklyn, N. Y. Filed Feb. 11, 1922. Serial No. 535,872. 9 Claims. (Cl. 152—30.)



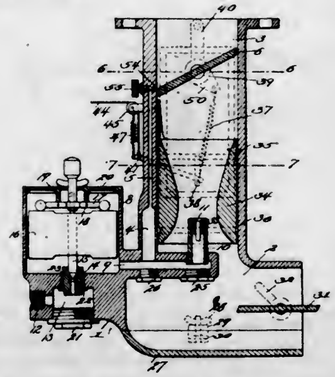
1. A rim embodying a plurality of blocks, pivots connecting the blocks together and springs connected with said blocks and capable of motion about the axes of the connecting pivots of said blocks.

1,478,894. SEED PLANTER. ROBERT LEE ESTES, Tiplersville, Miss. Filed Sept. 12, 1922. Serial No. 587,743. 4 Claims. (Cl. 193—9.)



1. The combination with a supporting frame, of coacting pairs of supporting bars connected to the frame in spaced relation, a conductor in telescoping sections with the discharge end of one section adapted to enter a seed tube, a supporting member carried by one of said conductor sections and adjustably coupled to one pair of said bars, and a supporting member carried by the other of said conductor sections and adjustably coupled to the other pair of said bars.

1,478,895. CARBURETOR. GROVER C. FARRIS, Norfolk, Va., assignor to Clifton R. Anderson, Ocean View, Va. Filed June 22, 1921. Serial No. 479,681. 4 Claims. (Cl. 261—41.)



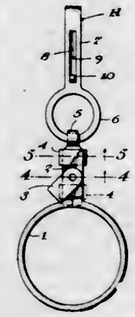
1. In a carburetor, a mixing chamber, a throttle valve therefor, a main fuel nozzle opening into said chamber, an idling fuel nozzle in communication with said chamber, means for closing said idling nozzle, means resiliently connecting said throttle with said idling nozzle closing means, arranged to move the latter to closing position when the throttle is opened.

1,478,896. COMBINED NOTE HOLDER AND CAP REMOVER FOR BOTTLES. STEVE FERENCY, Canton, Ohio. Filed Dec. 10, 1921. Serial No. 521,505. 1 Claim. (Cl. 40—11.)



A clip of the character described composed of a single strip of flat spring metal, said strip being bent midway of its ends forming sections of substantially equal length and curved at the bend thereof to provide a relatively small loop near said bend end with a contracted resilient neck portion at the entrance to said loop to close said loop, said strip sections from the contracted neck loop being curved outwardly and then inwardly to form a spring clip of a cross section adapted to detachably engage the neck of a bottle and adhere thereto through the resiliency of the metal sections of said strip, the extremities of each section being formed to offer finger gripping surfaces by which the neck engaging portions of each section can be spread apart to disengage the clip.

1,478,897. KEY RING. HENRY C. FRECH, Savannah, Ga. Filed Feb. 19, 1923. Serial No. 619,917. 2 Claims. (Cl. 59—96.)

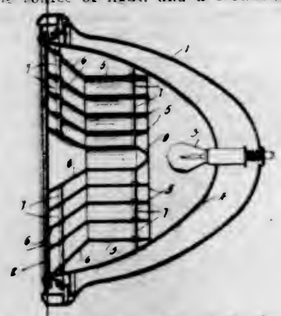


1. A key ring comprising a split member, an outstanding plate carried by the member adjacent to an end thereof, said plate having an end portion cut away to receive the opposite end portion of the member, swinging plates carried by the opposite faces of the first named plate and adapted to overlie the meeting end portions of the member, and a slidable collar embracing the first named plate and the swinging plates, said collar when in one position holding the swinging plates against movement.

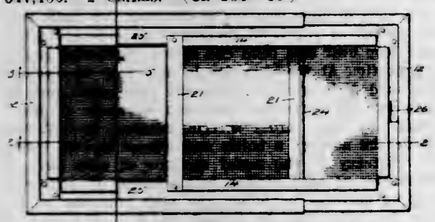
1,478,898. HEADLIGHT REFLECTOR. ELMER E. HACHMAN, Baltimore, Md. Filed Feb. 10, 1923. Serial No. 618,344. 2 Claims. (Cl. 240—48.4.)

1. A device of the class described consisting of a plurality of units, said units having cylindrical portions in

concentric, spaced and nested relation and disposed adjacent the source of light, and a forwardly and outwardly flaring portion extending from the cylindrical portion on the end thereof opposite to the source of light.

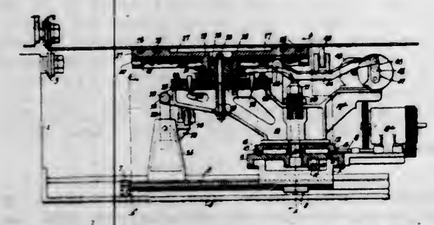


1,478,899. WINDOW SCREEN. CARL G. HALLBERG, Manitowoc, Wis. Filed Mar. 28, 1922. Serial No. 547,466. 2 Claims. (Cl. 156—38.)



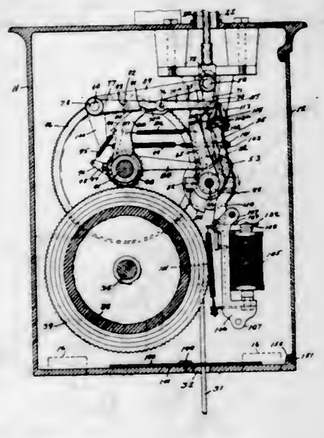
1. A window screen comprising a frame formed of a pair of U-shaped telescopic sections, each consisting of an end member and a pair of side members, each of said members formed of a pair of webs disposed at right angles with respect to each other, one of said webs of each member having the free marginal portion thereof bent at right angles to provide an L-shaped guide rib of a length equal to the length of the web, and the other of the webs of each member having the free marginal portion thereof folded upon itself and cutaway to provide a channel of less length than the length of the web, a foraminous sheet extended into the channel of each of said frame sections, a U-shaped stay member connected to the side members of each frame section and registering with the channels of its respective side members and further having said sheet extending therein, the said folded marginal portions of each frame section and of each stay member having inherent means for securing said sheet to its respective frame section, and each of said stay members having one longitudinal side thereof disposed at right angles to abut against a sheet, said right angular portions of said stay members forming stops and further providing closures between said sheets.

1,478,900. CLAMPING DEVICE FOR ROTARY SHEARS. CHARLES L. HUSTON and ALFRED GOODFELLOW, Coatesville, Pa. Filed June 10, 1920. Serial No. 388,045. 4 Claims. (Cl. 164—63.)



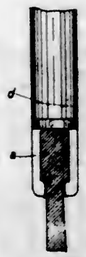
1. The combination in plate-holding mechanism for shearing machines, of a bed located in front of the shears; a slide mounted on the bed; means for moving the slide to and from the shears; a second slide mounted on the first slide and adapted to transverse ways on the first slide; a bracket rotatably mounted solely on the second slide; a motor on said slide for turning the bracket; and a plate holding disk pivotally mounted on the slide, said disk having magnets by which the plate is held to the disk.

1,478,901. SIGNAL-DEVICE-OPERATING MECHANISM. GEORGE E. KING, Newton, Mass., assignor to The Gamewell Fire Alarm Telegraph Co., Newton Upper Falls, Mass., a Corporation of New York. Filed Oct. 17, 1919. Serial No. 331,401. 31 Claims. (Cl. 177—288.)



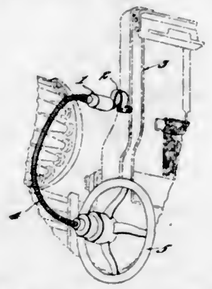
1. Operating mechanism for a signal device comprising a crank shaft, means to rotate said crank shaft, means to lock said crank shaft alternately in two positions including a toggle, and means to lock said toggle including a second toggle.

1,478,902. MEANS FOR FASTENING THE BLADES IN GAS TURBINES AND STEAM TURBINES. ADOLF MEYER, Zurich, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Filed Dec. 20, 1922. Serial No. 608,109. 4 Claims. (Cl. 253—77.)



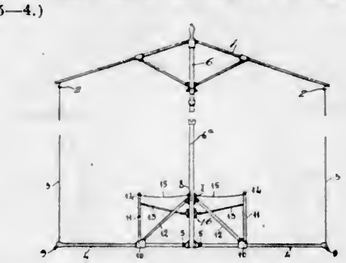
1. In a means for fastening turbine blades to a wheel disc in a steam or gas turbine of the type wherein the turbine blades are carried by the blade-spacing members, the combination with the wheel disc having an undercut rim and a turbine blade, of a blade-spacing member carrying said blade clasping the undercut rim of the wheel disc.

1,478,903. PICK COUNTER FOR LOOMS. ALBERT H. MORTON, Lowell, Mass. Filed Apr. 29, 1922. Serial No. 557,292. 2 Claims. (Cl. 235—1.)



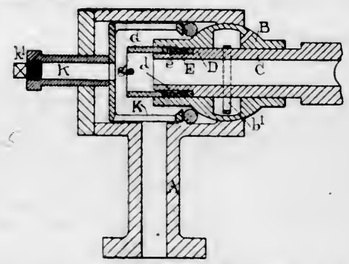
1. A pick counter for looms, comprising a counter proper, and a resilient support for attaching the counter to the frame of a loom, said counter having different portions for absorbing the lateral and longitudinal vibrations of the loom frame.

1,478,904. REMOVABLE HUT. ANTONIO MUZZI, CORRADO BIBOLINI, and LUIGI VINCINA, Genoa, Italy. Filed May 22, 1922. Serial No. 562,767. 8 Claims. (Cl. 135—4.)



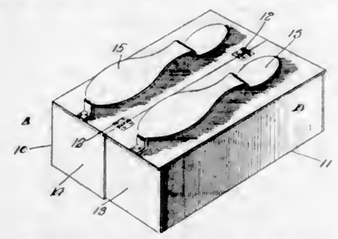
1. A folding tent frame having a staff provided at its lower end with ribs connected to the staff and capable of movement into positions substantially parallel to the shaft or perpendicular to the shaft, and means connected to the staff for holding said ribs in either position.

1,478,905. BEARING FOR THE CYLINDERS OF DRYING MACHINES. WILLIAM MYCOCK, Rochdale, England. Filed Feb. 6, 1923. Serial No. 617,313. 1 Claim. (Cl. 285—91.)



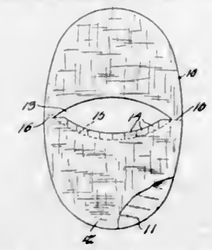
In a bearing or doll head for the cylinders of drying machines with a spherical sleeve bearing the combination with a shoulder at the rear end of the cylinder trunnion of a recess and gland for packing between the trunnion and the interior of the spherical sleeve and a nut screwed to the end of the spherical sleeve to compress the packing substantially as described.

1,478,906. PORTABLE FOLDING SHOE-SHINE STAND. RALPH A. NEMANICH, Joliet, Ill. Filed Apr. 29, 1922. Serial No. 557,443. 2 Claims. (Cl. 15—265.)



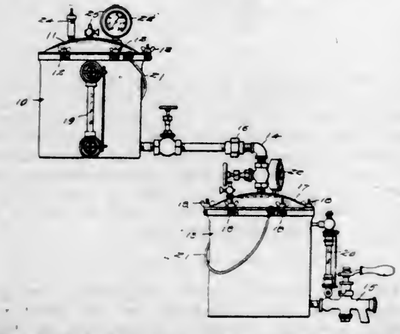
2. A shoe shining stand comprising two members providing when in operative position supporting means mounting co-planar upper plates arranged adjacent each other, foot rests positioned on said upper plates, and said members being constructed to fold one within the other to form a compact closure readily portable.

1,478,907. DRESS SHIELD. SIDNEY H. OGDEN, Cape May C. H., N. J., assignor of one-half to Francis H. Brown, Germantown, Philadelphia, Pa. Filed Dec. 27, 1920. Serial No. 433,192. 1 Claim. (Cl. 2—34.)



A dress shield comprising two side members consisting of an inner layer of waterproof material and an outer layer of cloth one of said members having a concave upper edge and the other having a fold line of the same curvature as said concave edge, tongues extending from the latter member and separated to the fold line said tongues being adhesively attached to the inner face of the other side member and the last-named member having perforations below the ends of the tongues extending through the waterproof material only, substantially as set forth.

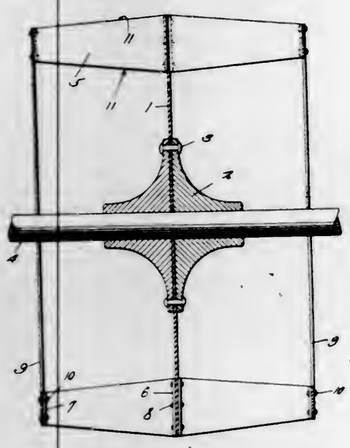
1,478,908. METHOD OF MAKING COFFEE. ARTHUR S. OLDHAM, Miami, Okla. Filed Sept. 7, 1922. Serial No. 586,682. 1 Claim. (Cl. 99—11.)



The method of preparing coffee consisting in subjecting a quantity of coffee and water to heat and super-at-

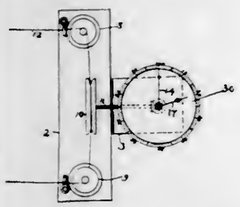
mospheric pressure, and in removing the resultant beverage without contact with the air to an air tight receptacle from which it is adapted to be dispensed.

1,478,909. FAN WHEEL. RICHARD W. OSWALD, Sewickley, Pa. Filed Aug. 24, 1921. Serial No. 494,825. 1 Claim. (Cl. 170—141.)



A fan wheel comprising a body and blades projecting laterally from the body in opposite directions, the outer edges of the blades being inclined, from the body, toward the axis of rotation of the wheel, thereby to render the wheel of greater external diameter at its median plane than at its ends.

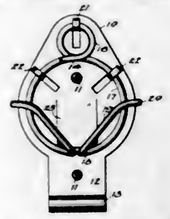
1,478,910. THREAD-MEASURING DEVICE. ARTHUR S. PERKINS, Auburn, Me. Filed Feb. 23, 1922. Serial No. 538,493. 1 Claim. (Cl. 33—129.)



In a thread measuring device for sewing machines, the combination of a supporting plate, a lateral extension therefor, a thread friction on said plate, a post on said extension removably connected with the sewing machine and supporting the plate, a geared meter supported by said extension, a metering wheel, a shaft therefor journalled in said meter, an arbor geared to said shaft, indicating hands operated by said arbor and a dial for registering the amount of thread used.

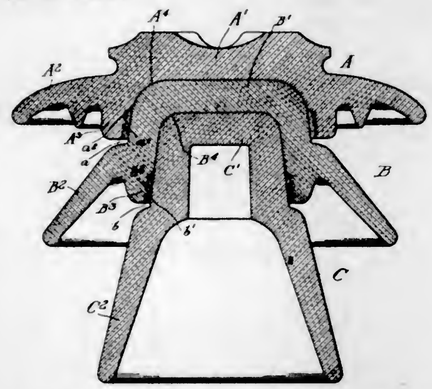
1,478,911. RAPID TOWEL HANGER. FLORENT PHILIPPE, Sr., South Charleston, W. Va. Filed Aug. 5, 1922. Serial No. 579,959. 3 Claims. (Cl. 24—255.)

1. A holder of the class described including a back plate, a clamp disposed on the plate at the front, the lower portion of said clamp forming spring jaws, and a resilient pressed out tongue on the back plate with its



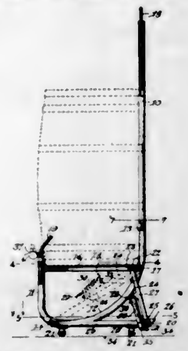
lower end in the rear of the jaws to prevent a towel from being entered between the back plate and jaws.

1,478,912. INSULATOR. BENTLEY A. PLIMPTON, Lima, N. Y., assignor of one-half to The Porcelain Insulator Company, Lima, N. Y., a Corporation of New York. Filed Nov. 8, 1920. Serial No. 422,520. 6 Claims. (Cl. 173—318.)



1. An insulator comprising a plurality of nested hollow sections having closed ends, the outer surfaces of the sides and end of the inner section fitting closely against and contacting with the inner surfaces of the sides and end of the outer section, one of the sections having a recess formed in its side opposite the adjacent surface of the cooperating section, and a cementing medium in said recess.

1,478,913. BARREL TRUCK AND RACK. GRANVILLE O. RHODES, Huntington, W. Va. Filed June 19, 1922. Serial No. 569,190. 7 Claims. (Cl. 280—49.)



1. A device of the class described comprising a frame including relatively long longitudinally directed portions

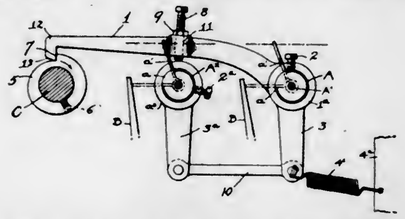
and relatively short longitudinally directed portions merging into curved portions and a rigid supporting portion at right angles to the longitudinally directed portions, a base member swinging from said frame at the juncture of the curved portions and the shorter longitudinal portions, means for supporting said base member at right angles to the longitudinally directed portions of the frame to support the same in vertical position, and means for detachably coupling said supporting means to enable the same to be folded within the lines of the frame when not in use.

1,478,914. CLEANING CLOTH. JOHN RITZENTHALER, Mount Vernon, N. Y. Filed Nov. 28, 1922. Serial No. 603,834. 1 Claim. (Cl. 15—227.)



A cleaning cloth which comprises a relatively large sheet of flexibe cleaning material, an auxiliary sheet of stiffer material disposed on one face thereof and sewed thereon along three sides to form a pocket for the hand, the area of the flexible cleaning cloth being much greater than the area of the pocket member, said auxiliary sheet being also sewed to the cleaning cloth along area within the edges thereof to simulate the outline of the hand, said sewed outline being provided with two thumbs to facilitate the attachment of the cloth to either hand of the operator.

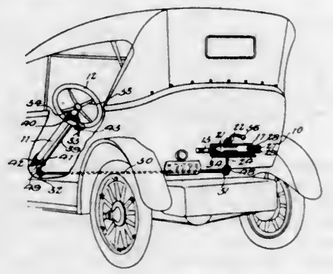
1,478,915. STOP ATTACHMENT FOR WARPING MACHINES. JESSIE JACKSON ROBERTS, Winder, Ga., assignor to Fletcher C. Graddick, Winder, Ga. Filed Feb. 18, 1922. Serial No. 537,654. 3 Claims. (Cl. 28—53.)



1. The combination with a drop wire bar and a rotating part of a warping machine, of a vibrating arm connected to the bar to give a quick intermittent oscillatory motion to the latter and a cam secured to the roller and engaged by the free end of the vibrating arm to instantly relieve the drop wires of accumulations and render them sensitive to automatic dropping action when the warp threads engaging the wires becomes broken.

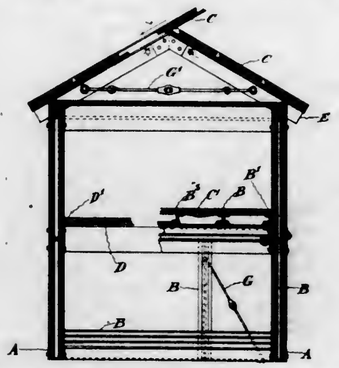
1,478,916. DIRECTION INDICATOR. EZRA L. ROBINSON, Los Angeles, Calif. Filed June 8, 1922. Serial No. 566,687. 3 Claims. (Cl. 116—47.)

1. A direction signal for motor vehicles embodying a signaling plate having directional indicia on the opposite faces thereof, means for mounting said plate on a horizontal axis for turning movements in opposite directions, means for normally maintaining said plate in a horizontal position to mask from view the opposite faces and the directional indicia thereon, manipulating means mounted adjacent the steering mechanism of the vehicle and connected with said plate for turning the same in opposite directions from its normal horizontal posi-



tion to its vertical positions to display the opposite faces and the directional indicia thereon, and means provided respectively on the steering mechanism and the manipulating means adapted to coact upon operation of the steering mechanism in following the signaled direction for returning the manipulating means and the signal plate to its normal position.

1,478,917. BUILDING CONSTRUCTION. HENRY ISMAY MORALEE ROSS, Dunedin, New Zealand. Filed Oct. 31, 1921. Serial No. 511,708. 6 Claims. (Cl. 72—1.)

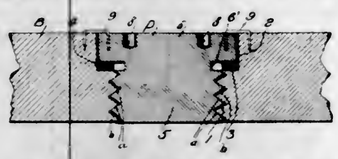


1. In buildings mainly of concrete and metal, metal bars having deep and shallow grooves on their reversed sides, and each bar having a deep and a shallow groove, back to back on its outer and inner edges, so that when placed in position as a rafter, stud or joist, a deep groove will be opposite a shallow groove, irrespective of either edge being reversed in positioning the bars, combined with specially formed concrete slabs, shaped to suit the grooves and flanges of the said bars, metal reinforcement in said slabs, to form the key between the concrete slabs for the cement grouting and stopping which units the whole wall as one piece, in combination with bars connecting with said first named bar.

1,478,918. TAP DEVICE FOR WOODEN BARRELS. WILLIAM RUPP, Newark, N. J. Filed Jan. 11, 1922. Serial No. 528,387. 2 Claims. (Cl. 217—110.)

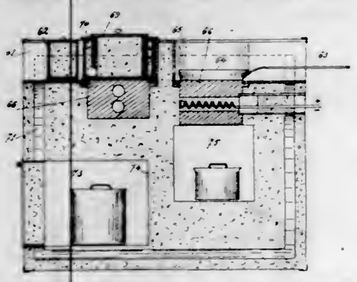
1. A wooden barrel having a screw threaded hole formed through the wood itself, said hole terminating at its outer end in an enlarged annular recess providing an annular shoulder, a gasket on said shoulder, said gasket having flat inner and outer faces, a screw hung

of hard nonmetallic material seated in said hole, said bung including a screw shank or plug, and an enlarged cylindrical head, said head adapted to fit in said recess with its outer face flush with the outer face of the barrel and its inner face engaging the flat faced gasket, the cooperating threads of the hole and the plug being of



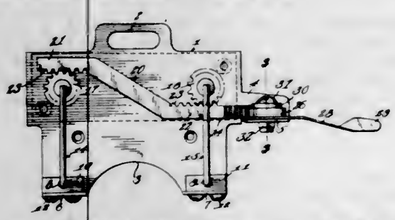
loose fit whereby to allow for expansion and contraction and to permit easy removal and replacing of the bung, means for locking the bung to the barrel against retrograde movement of the bung, and gripping surfaces formed in the top of said head, in combination with a key adapted to engage said gripping surfaces for turning the bung.

1,478,919. THERMOELECTRIC HEAT-ACCUMULATING COOKING STOVE. SECONDO SACERDOTE and SEVERINO CHRISTIANI, Milan, Italy. Filed Mar. 24, 1921. Serial No. 455,016. 6 Claims. (Cl. 219—35.)



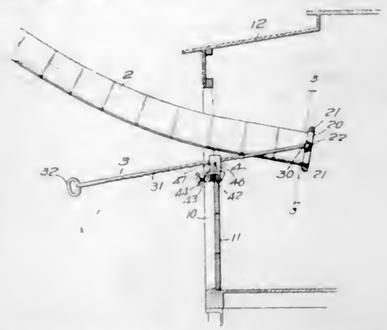
1. A stove, comprising a heating body of high thermal capacity having one or more holes extending completely therethrough; an electric heating element inserted into each hole and projecting beyond the same at one end; a casing of heat-insulating material enclosing said heating body and formed with a hole in register with each first-named hole and through and beyond which the projecting end of the respective heating element extends; current-supply means variably connectible exteriorly of said casing to the projecting terminals of the heating element or elements to regulate the heat developed thereby; and one or more cooking chambers heated by the heating body.

1,478,920. BILL FILE. FREDERICK WILLIAM SCHEPMAN, Evansville, Ind., assignor of one-half to William C. Menke, Evansville, Ind. Filed Sept. 13, 1922. Serial No. 588,064. 2 Claims. (Cl. 129—10.)



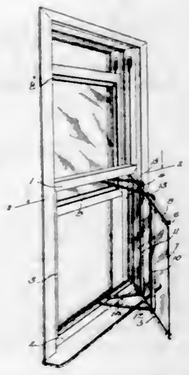
1. In a bill file, a base plate, a post rising therefrom and having a longitudinally extending tongue at its upper end, an arch member mounted to rotate on said plate with its free end adapted to engage said tongue when in closed position, a rack bar slidable on said base, a pinion carried by said arch member and meshing with said rack bar, a lever fulcrumed on said plate and having a gear meshing with said rack bar whereby the swinging of said lever will reciprocate said rack bar and open and close said arch member.

1,478,921. GRAIN-LOADING-SPOUT REGULATOR. WALTER GAY SLATER, Wiley, Colo. Filed June 13, 1922. Serial No. 567,996. 2 Claims. (Cl. 248—30.)



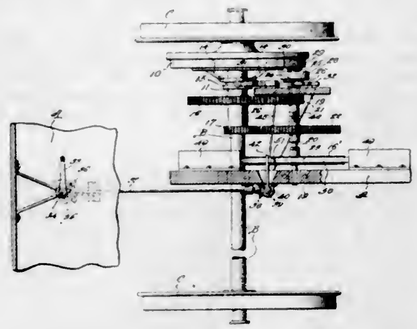
1. A grain loading spout regulator comprising a rod having one end engaging the free end of the spout through a universal connection, a swivel guide head for said rod adapted to be attached to the side of a vehicle to be loaded and having a guiding channel for the rod open at the top to permit lateral insertion of the rod, a ratchet tooth rack on the bottom of the rod, a ratchet engaging member at the bottom of the channel in the guide head, said complementary ratchet elements being arranged to engage under the force of gravity to hold the rod against outward movement and to disengage upon rotation of the rod, and a single controlling handle for manipulating the rod for universal movement of the spout and controlling the engagement and disengagement of the ratchet elements.

1,478,922. WINDOW CONSTRUCTION. HUGH J. SMITH, Brooklyn, N. Y. Filed July 17, 1922. Serial No. 575,563. 2 Claims. (Cl. 20—48.)



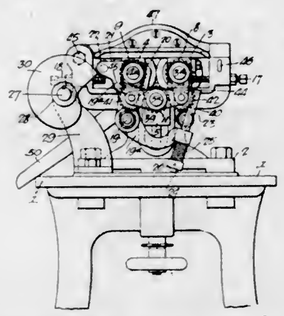
1. In a window sash construction, a windowpane pivotally connected to the sash, vertical molding members normally disposed at the vertical sides of the pane, and supporting bars for said molding members connected to the sash and movable outwardly, said supporting bars and molding members forming pivoted frames adapted to be swung out to support the glass when the glass is swung outwardly.

1,478,923. CAR BRAKE AND CAR MECHANISM. SAMUAL C. SMITH, Algiers, La. Filed Feb. 12, 1923. Serial No. 618,654. 4 Claims. (Cl. 105—69.)



1. In combination with the axle of a car, a combined brake and power saving mechanism comprising a gear secured upon the car axle and having a clutch drum, a sleeve rotatable upon the axle and carrying friction shoes co-operating with said drum, a second shaft, a hollow shaft rotatable on said second named shaft and carrying a pinion meshing with said gear and carrying a clutch drum, friction shoes carried by the second named shaft engageable with the second named drum, gear connections between both of said shafts, and a spring compressing mechanism operated by said second named shaft.

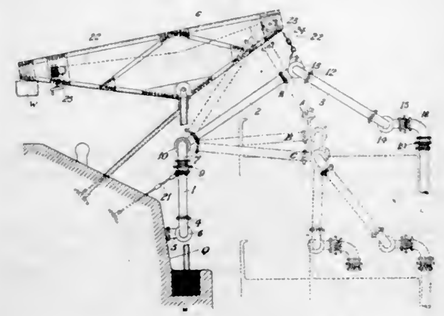
1,478,924. CANDY-FORMING MACHINE. WILLIAM C. SMITH, Philadelphia, Pa., assignor to Thos. Mills & Bro., Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 4, 1921. Serial No. 434,866. 3 Claims. (Cl. 107—10.)



1. In a candy forming machine, the combination with a frame, of a plurality of journal-boxes adjustably mounted in the frame, rolls journaled in said boxes, means for retaining certain of said journals immovable in the frame, means for reciprocating others of said journals in the frame, and a continuous positive and direct driving connection between the rollers in said journals.

1,478,925. LOADING AND DISCHARGE PIPE-LINE SYSTEM FOR OIL TANKERS. OTHO HENRY GEORGE STEED, Stafford, England. Filed Dec. 1, 1922. Serial No. 604,376. 4 Claims. (Cl. 137—78.)

1. A loading and discharging system of pipes for oil tankers comprising a pipe line constructed of a plurality of rigid pipe lengths connected together by angularly movable fluid tight joints permitting of the relative angular movement of the adjacent sections, the two central sections of the pipe being connected together by a joint admitting of their relative movement in a vertical plane, while their outer ends are connected to the other adjacent

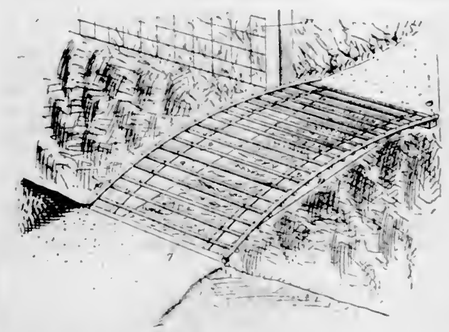


members of the system by universal joints admitting of relative angular movement in both vertical and horizontal planes.

1,478,926. MANUFACTURE OF ARTIFICIAL SILK FROM ACETYL CELLULOSE. WALTER JAMES STEVENSON, London, England. Filed Mar. 13, 1923. Serial No. 624,822. 1 Claim. (Cl. 18—54.)

The manufacture of artificial silk from acetyl cellulose by dissolving same in acetone or other suitable solvents, and after filtration forcing same through fine orifices or openings, into a decomposing bath containing sodium sulphate, which forms a continuous thread or fibre.

1,478,927. CATTLE GUARD. WILLIAM ANDREW TOMLINSON, Phoenix, Ariz. Filed Dec. 13, 1921. Serial No. 522,126. 1 Claim. (Cl. 256—14.)

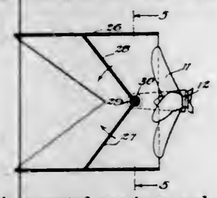


In a stock guard, a pair of spaced supporting beams, each having the lower face thereof substantially flat and the upper face thereof arched, spaced transverse tread members secured thereto and extending beyond the sides of the supporting members, and guard bars resting upon the tread members at the ends thereof and secured thereto.

1,478,928. RUDDER. JOHN J. TONER, New York, N. Y. Filed June 7, 1922. Serial No. 566,561. 2 Claims. (Cl. 114—145.)

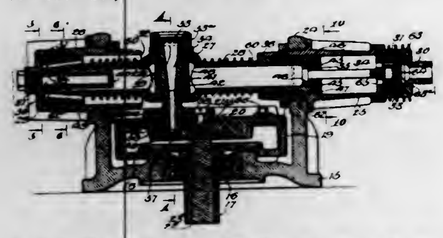
1. In combination with a ship including a propeller and a hollow rudder post, a rudder of the character described comprising a casing open at both ends fixed to the rudder post in alignment with the propeller, said rudder post being mounted for rotation about a verti-

cal axis, members rotatably mounted in the hollow rudder post and extending into the casing, gates attached



to said rotatably mounted members, and means for operating the rotatably mounted members to operate the gates to close the casing.

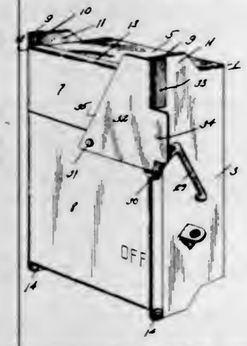
1,478,929. COMBINATION COMPRESSOR AND VACUUM PUMP. CHARLES M. TURSKY, New York, N. Y. Filed June 14, 1922. Serial No. 568,177. 21 Claims. (Cl. 230—27.)



1. An apparatus of the class described including oppositely disposed cylinders each having an air opening, a floating piston having plunger heads operating in said cylinders, said piston affording a flow of air therethrough between the cylinders and in communication with the cylinders through said plunger heads, valve means on and travelling with said plunger heads and controlling the flow of air therethrough, and means to operate said valve means of the respective plunger heads during the operation of the piston to cause air to be taken into one cylinder and pass through said piston and to air opening of the other cylinder.

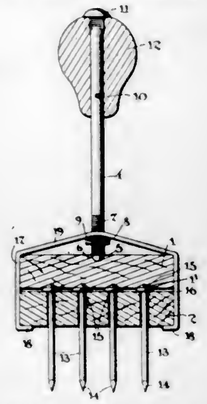
19. An apparatus of the class described including oppositely disposed cylinders, each having an air opening, a floating tubular piston having plunger heads in said cylinders and adapted to establish communication between the cylinders, and mechanically operated discharge and inlet valves for the low and high pressure cylinders respectively.

1,478,930. LOCKING DEVICE FOR SWITCH BOXES. EDGAR J. WEAVER, Columbus, Ohio. Filed July 13, 1921. Serial No. 484,420. 3 Claims. (Cl. 200—50.)



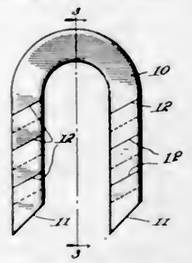
1. A switch box comprising a casing having an open front, a partition disposed within said casing and dividing the latter into spaced fuse and switch compartments, pivot door members for each of said compartments, locking means for retaining the door member of said switch compartment in a closed position, a frangible seal for said locking means, a switch disposed within said switch compartment, an operating handle for said switch located exteriorly of said box, and a pivot guard plate normally arranged to maintain the door member of said fuse compartment in a closed position, said plate serving upon oscillation to engage said switch handle to open said switch when said plate occupies a position permitting of the opening of the door member of the fuse compartment.

1,478,931. ICE CRUSHER. QUINTUS L. WEBB and WILLIAM R. POLSON, Bruneau, Idaho. Filed Sept. 25, 1923. Serial No. 664,751. 3 Claims. (Cl. 83—62.)



2. An ice crushing tool comprising a head formed of an outer and an inner section detachably secured together in opposed relation, said outer section having its inner face formed with sockets, and crushing members detachably carried by and projecting from the inner section and each formed with a conoidal shaped head seated in one of said sockets.

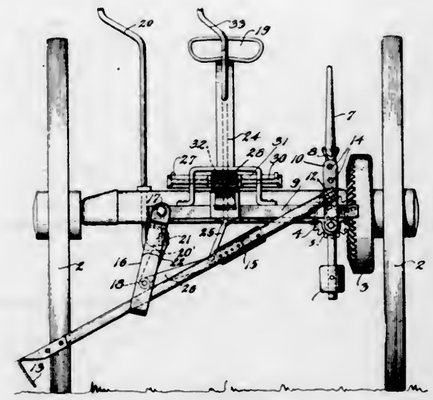
1,478,932. STAPLE. TONY H. WETZ, Hazelton, Kans., and ALVA A. EVANS, Eldorado, Okla. Filed July 31, 1922. Serial No. 578,816. 1 Claim. (Cl. 85—49.)



A staple having transverse shoulders upon its opposite faces disposed in staggered relation upon opposite sides and extended at an oblique angle with respect to the horizontal, the ends of the staple being bevelled and substantially parallel to the transverse shoulders.

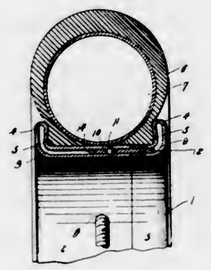
1,478,933. COTTON CHOPPER. E D WILLIAMS, Jackson, Tenn. Filed Dec. 7, 1921. Serial No. 520,673. 5 Claims. (Cl. 97—13.)

1. An implement of the class described comprising a wheeled support, a hoe, actuating means connected thereto and driven from the support, supporting means depending from the wheeled support and constituting a movable fulcrum for said hoe, shiftable with respect thereto to change the degree of cutting action, as well as raising or lowering of the hoe and means connected



to said depending supporting means to shift the hoe longitudinally of the implement to change the plane of chopping action and to effect raising or lowering of the hoe.

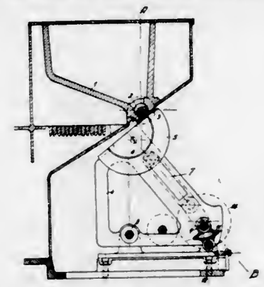
1,478,934. TWO-PIECE RIM. ADOLPH WINDMAISER, Spokane, Wash. Filed July 26, 1921. Serial No. 487,661. 1 Claim. (Cl. 301—35.)



A tire rim comprising a pair of sections each comprising a single length of material bent upon itself to form the respective sections of double walls with a space therebetween, said material being bent to form tire engaging flangea, pins secured to the walls of one of said sections and located wholly within the space between the walls of said section, said pins having shoulders abutting the walls of said section and holding the same in spaced relationship, and plates secured within the space between the walls of the other sections and having hooks extending beyond the edge of the section and adapted to engage said pins to hold the sections together.

1,478,935. MACHINE FOR CASTING STEREOTYPE PLATES. CARL WINKLER, Berne, Switzerland. Filed Sept. 23, 1922. Serial No. 590,191. 6 Claims. (Cl. 22—2.)

1. A casting machine for stereotype plates, and the like, comprising in combination, a melting pot, a tilting frame, a box core rigidly fastened to said frame and adapted in the tilted up position of said frame to press against said pot, a bed adapted to slide in said frame, a crank



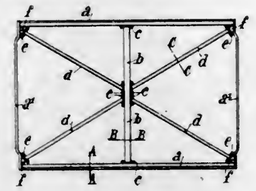
to tilt said frame up and down, and a crank to move said bed in said frame, substantially as, and for the purpose, set forth.

1,478,936. HOLDER FOR CLEANING NEEDLES FOR VAPORIZING BURNERS OR THE LIKE. BROR JOHANNES BENGTSSON, Kallered, Sweden. Filed Aug. 21, 1922. Serial No. 583,440. 4 Claims. (Cl. 240—119.)



1. In holders for cleaning needles for vaporizing burners, a resilient double-shanked pincer like handle, means on one shank of the handle for securing a cleaning needle, means on the other shank of the handle for guiding the needle through the orifice of a burner nozzle to be cleaned, and independent guiding means provided near the free ends of the shanks for positively preventing lateral strains on said needle.

1,478,937. METAL BEDSTEAD. JULES ARMAND BLIN, Paris, France. Filed Nov. 14, 1921. Serial No. 515,110. 2 Claims. (Cl. 5—305.)

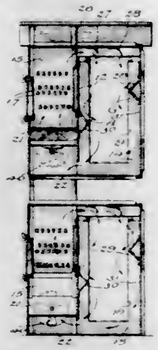


1. In a metal bedstead the combination with embossed head and foot plates, of side rails and a cross-bar for the side rails all constituted of two channelled members fitting into one another, lateral wings at each end of the said cross-bar, and gussets projecting from the inner sides of the side rails to receive said wings.

1,478,938. UNIT DRIER. LYNN B. CASE, Hudson Falls, N. Y., assignor to Standard Wall Paper Co., Hudson Falls, N. Y., a Corporation of New York. Filed Oct. 31, 1922. Serial No. 598,171. 11 Claims. (Cl. 34—19.)

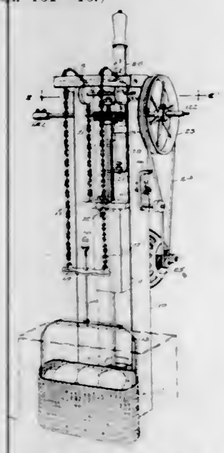
8. An apparatus of the character described comprising parallel longitudinal rows of heating and drying compartments, each heating and drying compartment having communication with each other at their upper ends and each succeeding heating compartment having communication with the preceding drying compartment at its lower end, heating elements in the

heating compartment, means for initially intaking air into the first heating compartment, means in the succeeding heating compartments for intaking air from the preceding drying compartment, means for expelling the air from the last drying compartment, the said



drying compartments having aligned passageways through which the material to be dried is adapted to be passed in festoon form on a traveling rack, and a common means for actuating the said intaking and expelling means.

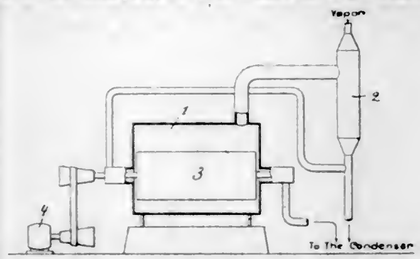
1,478,939. EGG BOILER. ROGELIO J. CAVILLA, New York, N. Y. Filed Oct. 30, 1922. Serial No. 597,901. 8 Claims. (Cl. 161—16.)



1. An egg boiler including an egg basket, means to lift said basket, a weight connected with said lift means to actuate the same, a vertical spindle having threads, means on the weight adapted to engage said threads or to release the same, and means to turn said spindle, whereby to cause the second-mentioned means to travel and the weight to thus descend for causing the basket to be lifted when the means engaging the threads reach the lower end of the latter and pass out of engagement with the threads.

1,478,940. PROCESS OF PREPARING OF DRY AND SOLUBLE EXTRACT OF ROASTED COFFEE. ADOLPHE CHALAS, Neuilly, France. Filed Apr. 6, 1921. Serial No. 459,097. 5 Claims. (Cl. 99—5.)

5. A process of preparation of dry and soluble extract of roasted coffee consisting in making an infusion of coffee, in evaporating said infusion in a chamber wherein is maintained a low pressure in such manner that if the said pressure acted alone the said infusion



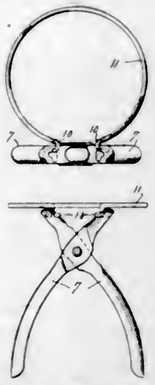
would become congealed, and in heating the said infusion at the same time to the exactly sufficient degree to prevent its congelation.

1,478,941. ATTACHMENT FOR LADDERS. JOSEPH COMEAU, Providence, R. I. Filed Feb. 20, 1923. Serial No. 620,209. 5 Claims. (Cl. 304—34.)



1. A ladder attachment comprising a pair of arms adapted to be removably clamped to the opposite side members of a ladder, the outer end of each arm having an elongated reverse bend forming a deep support engaging hook, and an angularly disposed brace bar connecting the outer end of each arm with its ladder side, said arms cooperating to provide a support for a cross seat.

1,478,942. PISTON-RING COMPRESSOR. WILFRED C. COOK, Fresno, Calif. Filed Mar. 15, 1922. Serial No. 543,962. 5 Claims. (Cl. 29—86.4.)

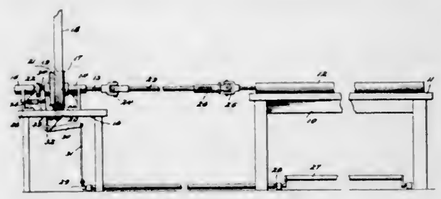


1. In a ring compressor the combination with a pair of movable jaw members having substantially opposed T-shaped openings in the free ends of said jaws, of an annulus having the free ends thereof bent to extend at a right angle to the body portion and then bent to form hooks lying in a plane parallel with said body portion and adapted for engagement with the T-shaped opening in the jaw members, substantially as and for the purpose described.

1,478,943. MANUFACTURE OF CASEIN GLUE. EDWARD LEONARD DANCE, Hamilton, Auckland, New Zealand, assignor to The New Zealand Co-Operative Dairy Company, Limited, Hamilton, Auckland, New Zealand. Filed Mar. 21, 1922. Serial No. 545,629. 8 Claims. (Cl. 87—17.)

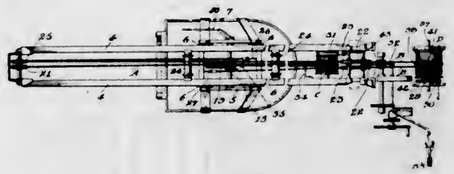
7. The method of making a glue consisting of spraying a liquid solution consisting of camphor dissolved in spirits of wine over powdered casein, then drying the resultant mixture, adding sodium tungstate and sodium silicate thereto, kneading and rolling the whole mixture, then drying and grinding the whole mixture to a powder of the desired fineness, and adding calcium hydrate to the ground powder.

1,478,944. DEVICE FOR WINDING CONVOLUTE TUBES. CHARLES K. DUNLAP, Hartsville, S. C., assignor to Sonoco Products Company, Hartsville, S. C., a Corporation of South Carolina. Filed Mar. 30, 1922. Serial No. 548,217. 8 Claims. (Cl. 93—81.)



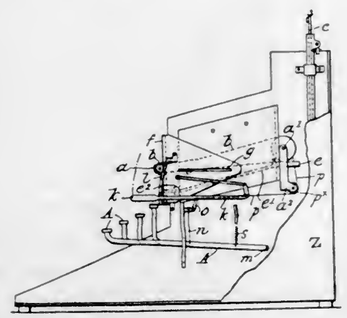
1. A device for winding tubes comprising in combination an elongated movable mandrel circular in cross section, a longitudinally flexible drive member for rotating said mandrel connected at one end to one end of said mandrel, a stationary support in which the other end of said drive member is rotatively mounted and drive means at said stationary support for rotating said drive member.

1,478,945. BOOM AND BUCKET FOR CONCRETE PAVERS. CHARLES E. FOOTE, Nunda, N. Y., assignor to The Foote Company, Nunda, N. Y., a Corporation of New York. Filed Mar. 21, 1922. Serial No. 545,458. 12 Claims. (Cl. 214—59.)



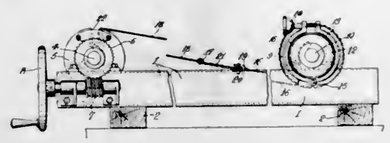
1. In combination with a concrete paver having a boom and bucket, a carriage on said boom for supporting said bucket, a cable endless in form connected to said carriage for operating the carriage and bucket in a forward and rearward direction, a horizontal positioned drum mounted on the paver for operating said cable, a portion of the cable passing over the drum and a portion of the cable passing under the drum, the ends of said cable being so fastened to the drum that the greatest horizontal angularity of the inner bights of the cable will occur when the carriage and bucket are in their outermost position on the boom.

1,478,946. MUSIC TYPEWRITER. LUIGI FORTONI, London, England. Filed Oct. 19, 1921. Serial No. 508,852. 5 Claims. (Cl. 197—8.)



1. In a music type-writer, pivoted lever-arms each provided at its outer end with a pulley carrying a revoluble polygonal printing-wheel, or disc, and at its inner end carrying a second pulley, a sprocket or toothed wheel carried by said second pulley, a driving chain passing over said pulleys and actuating the printing-wheel or disc, and means for rocking said lever-arms to bring the said printing-wheel or disc, into position for printing on the music paper, substantially as described.

1,478,947. APPARATUS FOR APPLYING SHEETS TO PRINTING CYLINDERS. WILLIAM GAMBLE and MALCOLM OWEN, London, England; said Gamble assignor to A. W. Penrose and Company Limited, London, England. Filed Mar. 19, 1923. Serial No. 626,091. 5 Claims. (Cl. 101—415.1.)

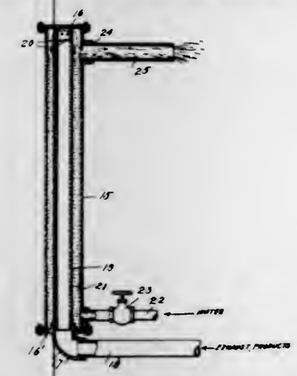


1. Apparatus for applying sheets to a printing cylinder comprising the combination with a support of bearings on said support, a spindle adapted to carry a printing cylinder carried by said bearings, gearing for rotating said spindle, a tensioning device fixed on said support and spaced from said bearings, fastening means for attaching said tensioning device to a sheet to be wrapped on a cylinder, and means for preventing reverse rotation of said spindle under effort from said tensioning device.

1,478,948. EXHAUST AND WATER DISCHARGE FOR ENGINES. EARL V. GARA, Balboa, Calif. Filed Mar. 28, 1921. Serial No. 456,428. 3 Claims. (Cl. 60—31.)

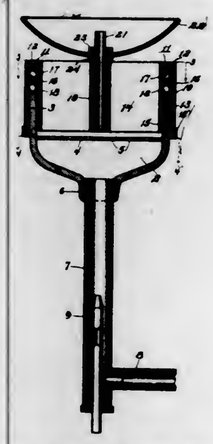
1. The combination with an internal combustion engine having a cooling jacket provided with water inlet and outlet openings and a pump for circulating water through said cooling jacket, of a stand pipe connected at its lower end with said water outlet opening and pro-

vided adjacent its closed upper end with a discharge opening, and a second stand pipe of smaller diameter arranged in said first mentioned stand pipe adapted to be con-



nected with said engine exhaust manifold, said second mentioned stand pipe being open at its upper end and extending above said discharge opening.

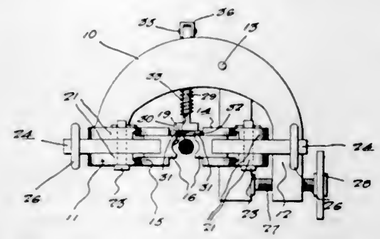
1,478,949. BURNER. JESSE M. GARRETT, St. Louis, Mo. Filed July 10, 1922. Serial No. 573,898. 4 Claims. (Cl. 158—77.)



2. In a liquid fuel burner, a mixing chamber having an apertured partition therein, a turbine having angularly arranged blades journaled above the partition, a baffle above the turbine, means for admitting a liquid fuel under pressure through the apertured partition against the blades of the turbine for revolving the turbine and caused to exert a whirling action against the fuel to force the same outward of the mixing chamber against the baffle, and by virtue of contact therewith to be scattered therefrom.

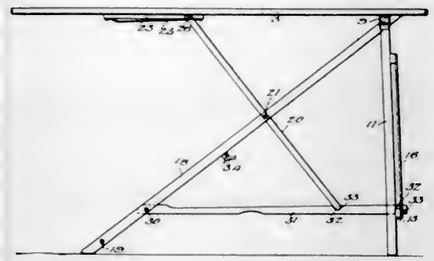
1,478,950. WIRE-LINE CLAMP. EUGENE CARL GILLIAM, Warner, Okla. Filed Mar. 24, 1923. Serial No. 627,418. 5 Claims. (Cl. 24—133.)

3. A device of the character described comprising a substantially U-shaped body, a member pivotally connected with said body adjacent the juncture of one arm with the bight portion thereof, the confronting face of said member and the confronting face of the other arm being inclined and converging downwardly, means for swinging said movable member upon its pivot whereby to move it more or less close to the second named arm, vertically slidable clamping members guidably movable along the confronting faces of said movable member and said second named arm, levers pivotally connected with



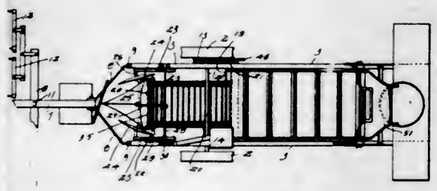
said body and with said movable member and connected with the upper ends of the clamping members, and suspension means connected with the outer ends of said levers, and means for holding said clamping member against slidable movement.

1,478,951. IRONING TABLE. EDWARD L. GOLDEN, Manistee, Mich. Filed June 6, 1922. Serial No. 566,251. 4 Claims. (Cl. 68—10.)



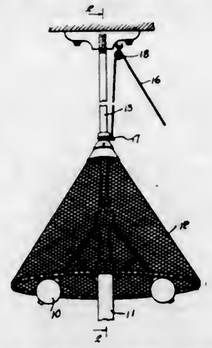
1. An ironing table comprising an ironing board, a plurality of vertically disposed legs pivotally secured to one end of the ironing board, a plurality of angularly disposed legs pivotally connected to one end of the table, a tension bar connecting said angularly disposed legs and said vertically disposed legs, and a brace pivotally connected to the angularly disposed legs, one end if said brace engaging beneath the ironing board and the opposite end of said brace engaging the tension bar to support one end of the board.

1,478,952. POTATO DIGGER. RAY H. HANKS, Henryetta, Okla. Filed Aug. 19, 1920. Serial No. 404,508. 2 Claims. (Cl. 55—9.)



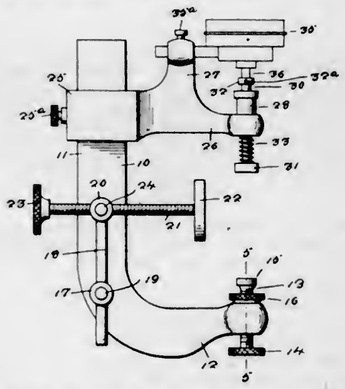
1. A machine of the class described having a movable cross bar, a digger member adjustable through movement of the cross bar, colters on said cross bar cooperating with the digger member, and means to adjust the digger member to different heights and on said cross bar.

1,478,953. GUARD. LEONARD HAPP and EDWARD ADAM HAPP, Brooklyn, N. Y. Filed June 23, 1921. Serial No. 479,813. 1 Claim. (Cl. 74—56.)



In a protective device for speed governors, a bracket secured in superposed relation to the governor, a rod depending therefrom and disposed in axial alignment with the axis of the governor, a collar slidably arranged on said rod, means supported from said bracket and secured to the collar for moving the latter with respect to the governor, and a wire guard adapted to cover said governor secured to said collar.

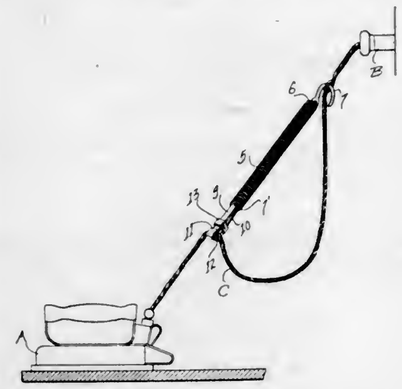
1,478,954. MEASURING DEVICE. ERNEST R. HARDAKER, Jerome, Idaho. Filed Sept. 22, 1922. Serial No. 589,832. 4 Claims. (Cl. 33—147.)



1. A device of the character described comprising a supporting member of angular shape, an adjusting screw passing through one arm of said member and carrying a contact head, a slidable member mounted at one side of said support, an adjusting screw carried by said slidable member and carrying a contact head, a carriage slidably mounted upon the other arm of said support and adapted to support an indicator, and a slidable spring pressed contact member carried by the carriage in alignment with said first named contact member and adapted to operatively engage the actuating element of the indicator.

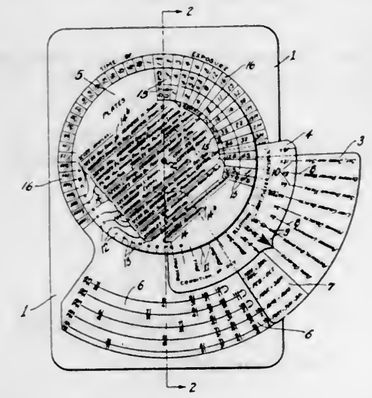
1,478,955. ATTACHMENT FOR ELECTRIC-IRON CORDS. ANNA W. HARRISON and SIMON H. HARRISON, South Berkeley, Calif. Filed Aug. 20, 1921. Serial No. 493,903. 1 Claim. (Cl. 24—129.)

In a device of the character described a helical spring, a hook secured to one end of said spring and adapted to surround a wall insulator, a pair of outwardly extending arms secured to the opposite end of said helical spring, said arms having flared ends, and a sleeve adapted to



surround said arms and slide thereon whereby the ends of said arms are forced toward each other so as to grasp an electric cable.

1,478,956. EXPOSURE METER. ELMER HARROLD, Leetonia, Ohio. Filed Dec. 11, 1922. Serial No. 606,126. 6 Claims. (Cl. 235—88.)

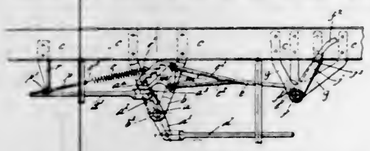


4. A photographic exposure meter, comprising a plurality of moving members, having on one of its movable members a schedule of various plates and films to be used, said plates and films arranged into groups having approximately the same speed, and each of said groups arranged with a lead line and symbol to read onto the various items of some other schedule to compensate for the various speeds of plates and films used.

1,478,957. BRAKE SLACK ADJUSTER FOR RAILWAY VEHICLES. ARTHUR E. HAYWARD, Swindon, England. Filed May 2, 1921. Serial No. 466,124. 4 Claims. (Cl. 188—198.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

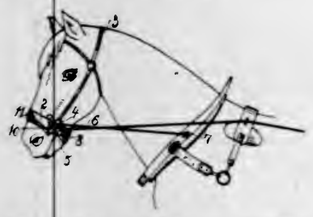
3. A brake adjusting apparatus for railway vehicles, comprising a power rod forked at one end, two plates, one on each side of said forked ends, each of said

plates having an inclined slot, one side of each slot being toothed, a pivoted lever, a pin on said lever en-



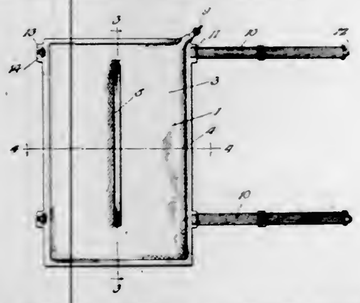
gaging with the teeth of said slots, a pull rod pivotally connected to said pivoted lever and means for restoring said slotted plate to normal.

1,478,958. BITLESS BRIDLE. INGVALD HEIEN, Hedemarken, Norway. Filed June 8, 1921. Serial No. 476,016. 3 Claims. (Cl. 54—6.)



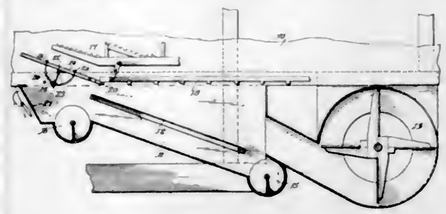
1. A bitless bridle comprising a nose band, a pulley rotatably mounted thereon on each side of the bridle, a lever fixed to each pulley, an adjustable nose piece connected to the levers, and bridle reins passing over the pulleys for independently rotating the latter.

1,478,959. SWIMMING APPLIANCE. WINCESLAS B. HOBERT, Jr., Jackson, Miss. Filed Dec. 15, 1921. Serial No. 522,599. 1 Claim. (Cl. 9—17.)



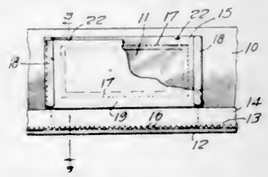
In a swimming appliance, an inflatable member for disposal against the abdomen and comprising walls marginally united and also united along the vertical median line of the member whereby to provide two air pockets located a single one at each side of said median line and presenting a smooth and unbroken surface throughout the height of the appliance, the air pockets being in communication with each other, means whereby air may be introduced into one of said pockets to inflate both said pockets, a strap connected to one upper corner of the member and adapted to be passed about the body in a line immediately below the arm pits, means for connecting the strap to the opposite upper corner of the member, a strap connected to one side of the member above one lower corner thereof and in position to extend about the waist line, and means for connecting the last mentioned strap to the opposite side of the member at a correspondingly located point, the air pockets extending below the line of circumferential extent of the last mentioned strap.

1,478,960. ATTACHMENT TO THRASHING MACHINES. GEORGE A. HOFFMAN, Ness City, Kans., assignor of one-half to W. J. Harder, Arnold, Kans. Filed Apr. 4, 1923. Serial No. 629,912. 4 Claims. (Cl. 130—24.)



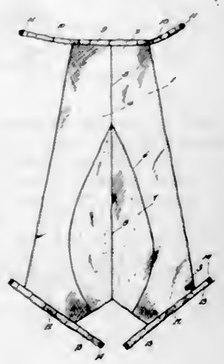
3. The combination with the grain pan and screen shoe of a thrashing machine, of a plate extending from the discharge end of the grain pan, and a retarder member depending from the plate and extending into the path of the material discharged from the shoe.

1,478,961. IDENTIFICATION HATBAND. WILLIAM W. HOLMAN, Washington, D. C. Filed Oct. 16, 1922, Serial No. 594,772. Renewed Aug. 21, 1923. 2 Claims. (Cl. 40—9.)



1. A hat identifying means comprising a sweat leather having a sight opening cut therethrough, a transparent flexible sheet secured to the reverse side of the sweat leather and covering the sight opening, and means carried by the transparent sheet for maintaining an identifying card in position for inspection through the sight opening.

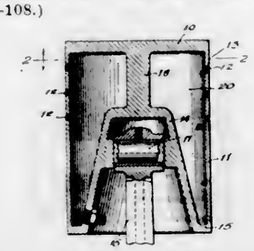
1,478,962. PROTECTIVE APRON. MINNIE S. HULLEY, Woodhaven, N. Y. Filed Aug. 24, 1921. Serial No. 495,040. 2 Claims. (Cl. 128—287.)



1. An article of the class described comprising an apron having a relatively narrow upper end, the apron being continuously increased in width in the direction of its lower end, means at the upper end of the apron for attaching said end, the lower end of the apron being medially recessed to provide oppositely diverging leg

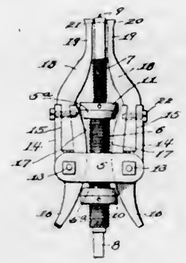
portions, means at the lower end of each leg portion extending diagonally with relation to the vertical median line of the apron for attaching the leg portion to the limb, and a gore of thin sheet rubber set into the lower portion of the apron and extending from a point adjacent the upper end of the apron to the inner edges of the said leg portions.

1,478,963. PISTON. ROSCOE C. JONES, Jefferson, N. Y. Filed Mar. 30, 1923. Serial No. 628,911. 5 Claims. (Cl. 74—108.)



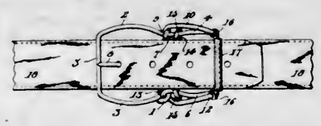
1. A piston for internal combustion engines, comprising a hollow casing having elastic walls, and means sensitive to temperature changes enclosed in the casing for expanding the casing walls.

1,478,964. BEARING AND GEAR REMOVING TOOL. ABRAHAM B. KLAY, Modesto, Calif.; John J. Klay executor of said Abraham B. Klay, deceased. Filed June 15, 1921. Serial No. 477,821. 8 Claims. (Cl. 29—85.)



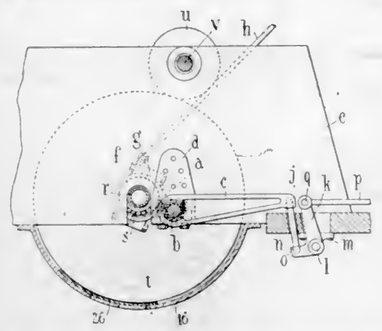
3. A tool or implement of the class specified, comprising a screw-threaded sleeve, a drawing rod movable through the sleeve, tool members adjustably associated with the sleeve and having inner extremities constructed to engage a bearing or gear, and means movable longitudinally on the sleeve for adjusting the tool members to expand or contract the latter.

1,478,965. BELT BUCKLE. ANDY KOZMA, Lovilia, Iowa. Filed Dec. 19, 1922. Serial No. 607,789. 4 Claims. (Cl. 24—188.)



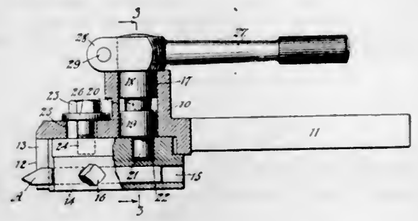
1. In a belt buckle of the type described, a buckle frame formed of a single strand of wire bent to provide a tongue guard and strap clamping bars, a tongue pivoted on said frame, the buckles being reinforced by the formation of eyes through which portions of the wire strand extend.

1,478,966. CONTROL MECHANISM OF POWER-PROPELLED VEHICLES. FREDERICK WILLIAM LANCHESTER, London, England. Filed Nov. 27, 1922. Serial No. 603,710. 4 Claims. (Cl. 74—26.)



1. Transmission control mechanism for power propelled vehicles including in combination an axle, two vehicle road wheels mounted thereon, a friction drum rotationally rigid with each of said wheels, bearing housings for the said wheels and axle, supporting means for said housings serving to constrain movement of the wheel axis to a cylindrical path, friction driving wheels, braking surfaces engageable with said drums and means for enabling the supporting means for said housings to be actuated so that;—(1) the said friction driving wheels may be lowered into frictional driving contact with said friction drums, a component of the weight of the vehicle being employed to supply a part of the frictional driving adhesive, or (2) the friction driving wheels may be raised into free position, or (3) the braking surfaces may be raised into frictional contact with said drums at the will of the operator.

1,478,967. TOOL HOLDER. SAMUEL A. LEE, New York, N. Y. Filed Mar. 17, 1923. Serial No. 625,757. 4 Claims. (Cl. 29—96.)



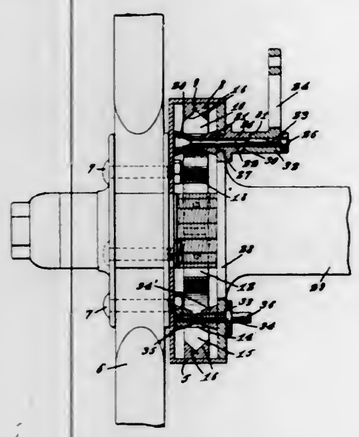
1. A tool holder for lathes comprising a head having means to mount the same in position for use, a block having means to receive a tool and mounted to have rectilineal movement on said head to regulate the degree of projection beyond the head, a transversely disposed element having a bearing in said head, an eccentric pin on said element engaging said block, and means to turn said element to cause said pin to move said block.

1,478,968. PROCESS OF MAKING MEAT CASINGS. CHARLES S. LENZ and HARRY MEYER COHEN, New York, N. Y. Filed Mar. 29, 1922. Serial No. 547,783. 5 Claims. (Cl. 17—45.)

1. A process of making casings wherein raw meat is adapted to be cooked and cured and which casings comprise solely a stress-resisting element of fabric and a skin

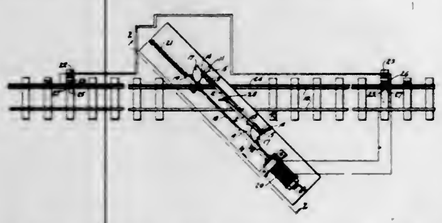
of albuminous substance in which such fabric is embedded; said process including the steps of (1) dipping a fabricated foundation into an albuminous solution whereby to saturate the fabric, (2) drying the coated fabric, and (3) treating the coated fabric to induce flexibility.

1,478,969. AUTO BRAKE. SAMUEL B. LEITZELL, Butler, Pa. Filed Apr. 20, 1922. Serial No. 555,780. 2 Claims. (Cl. 188—79.)



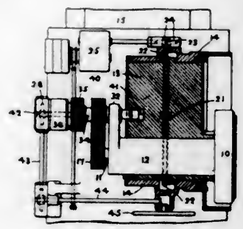
1. In combination with a brake housing, a brake band secured to the brake housing, a sectional brake member positioned within the brake housing and adapted to be moved into engagement with the brake band, cone-shaped members disposed between the adjacent ends of the sections, means for manually controlling the cone members to move the sections away from each other, and means for normally urging the sections towards each other.

1,478,970. MINE-DOOR-OPERATING MECHANISM. HUGH C. LIGGETT, ROY PETERSON, and SHERMAN W. LIGGETT, Salineville, Ohio. Filed May 27, 1922. Serial No. 563,022. 2 Claims. (Cl. 246—127.)



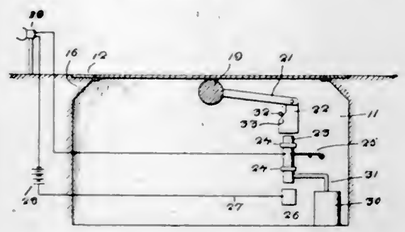
1. The combination with a mine door, of a track extending through the doorway and a trolley wire above the track, of means for swinging the door to an open position automatically upon the approach of a car in the other direction including a solenoid disposed in a normally open circuit with a source of energy, a core for the solenoid and connected to a rack, a sector gear operatively connected to the pivotal axis of the door and actuating said rack, means normally urging the rack in a direction to hold the door closed, the energizing of the solenoid causing the shifting of the rack to open the door, switches disposed one on each side of the door and connected in circuit with the source of energy and the solenoid and adapted to alternately close and open said circuit, and switch actuated members disposed adjacent the trolley wire and adapted to be engaged by the trolley wheel of the car.

1,478,971. SURFACE-GRINDING MACHINE. THOMAS LUMSDEN, Gateshead-on-Tyne, England. Filed Feb. 9, 1923. Serial No. 617,914. 3 Claims. (Cl. 51—120.)



1. In a surface grinding machine for producing flat surfaces, the combination of a bed, a housing mounted thereon, a carrier within said housing, means for rotating said carrier, a ram eccentrically mounted in said carrier, a grinding wheel mounted in said ram, a non-rotary threaded spindle co-axial with said carrier, a lug on said ram fixedly attached to said spindle, a nut on said spindle restrained from axial movement, means for rotating said nut to axially travel the spindle to feed forward and retract the eccentric ram carrying the grinding wheel, and means for rotatably driving the grinding wheel independently of the carrier.

1,478,972. ROAD SIGNAL. CHARLES E. LYMAN, Asheville, N. C. Filed Apr. 18, 1919. Serial No. 290,981. 5 Claims. (Cl. 177—339.)

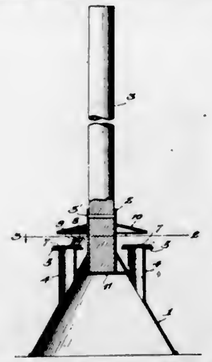


3. A signal operating mechanism comprising a shaft mounted for rotation transversely across a roadway, laterally disposed wings extending horizontally upon each side of the shaft and normally positioned slightly above the level of the roadway, means for yieldingly holding the wings in normal position, a normally open switch, means operated by the depression of one of the wings by a vehicle travelling in a given direction to close the switch, means for retarding the opening of the switch and means whereby the switch closing means will be inactive when the wings are depressed by a vehicle travelling in an opposite direction.

1,478,973. CLOTHES CLEANER. WILLIAM E. MCMORDIE, Hamilton, Tex. Filed Oct. 13, 1922. Serial No. 594,252. 5 Claims. (Cl. 251—123.)

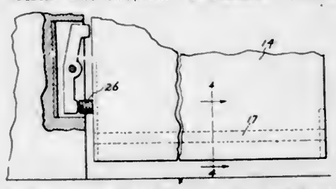
1. In a valve structure, a supporting member having a plurality of valve seats and having a radial supporting arm extending upwardly from each at an incline, valves of flexible material engaged with the respective valve seats and each having a radial arm engaged with the

respective supporting arms of the valve seats, the sides of the supporting arms being bent over and inwardly



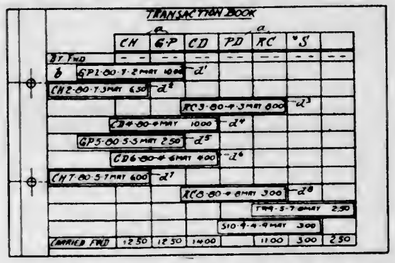
to lie in clamping engagement with the valve arms, and a combined valve protecting and movement-limiting disk carried by the member and overlying the valves.

1,478,974. AUTOMATIC WEATHER STRIPPING. GEORGE E. MARCOTTE, Chicago, Ill. Filed June 13, 1922. Serial No. 567,956. 3 Claims. (Cl. 20—65.)



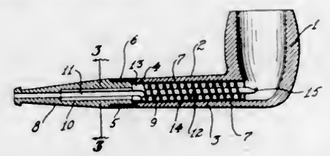
3. In a door structure an automatic weatherstripping for the lower edge of the door, comprising a flat strip mounted on the lower edge of the door arranged to be moved down and up, means for moving said strip down and up comprising a projection extending beyond the hinged edge of the door and rigid with a longitudinally slidable element and a pivoted lever on the hinge door jamb arranged to have one end contact with the edge of the door proper and the other end engage the said extending projection.

1,478,975. MEANS FOR KEEPING ACCOUNTS AND COMPOSING ACCOUNT BOOKS. RICHARD BORLASE MATTHEWS, East Grinstead, England. Filed Oct. 14, 1921. Serial No. 507,772. 2 Claims. (Cl. 283—63.)



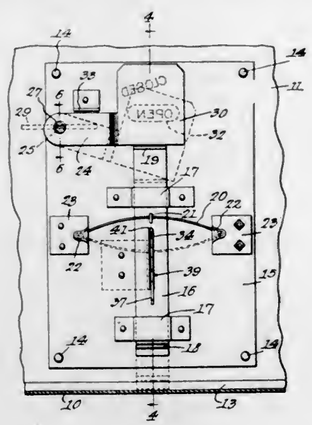
1. In book-keeping, a transaction book ruled to leave top and bottom spaces, a left marginal column and equal entry spaces under marked columnar headings, in combination with marked sales slips suitably inscribed and then permanently secured in said book in vertical succession and horizontal selection determined by said marked headings, as and for the purpose stated.

1,478,976. TOBACCO PIPE. JOHN D. MAIER, Charlestown, Md. Filed May 20, 1921. Serial No. 471,051. 1 Claim. (Cl. 131—12.)



In a tobaco pipe a bowl and a stem extending from the bowl and having a bore in communication with the interior of the bowl and also having an exteriorly reduced rear end, a ferrule permanently fixed on said reduced end of the stem, a tube having a rear enlarged portion permanently secured in the ferrule, said tube resting snugly in the stem of the pipe and being open at its ends, a mouth piece removably arranged in the rear enlarged portion of the tube, and cleaning means removably arranged in the tube and removable from the pipe with the mouth piece.

1,478,977. DEPOSIT AND COLLECTION RECEPTACLE. JOHN C. MARTIN, Terre Haute, Ind. Filed Mar. 15, 1923. Serial No. 625,323. 4 Claims. (Cl. 292—164.)

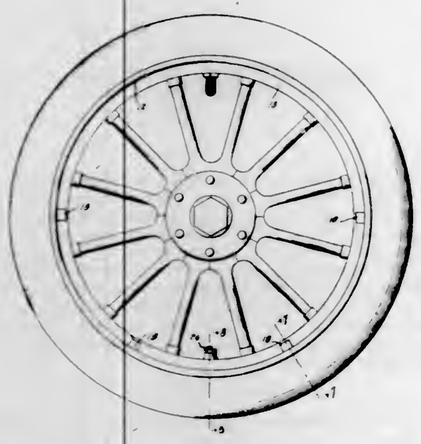


1. In a deposit and collection device, a casing, a door controlling access to the interior of the casing, a movable bolt carried by the door, a manually operated closing element adapted to engage the bolt and shift it to the closed position, a manually operated opening element adapted to engage the bolt and shift the same to the open position and incapable of shifting the same to the closed position, and a lock engaging the manually operated opening element to normally prevent such element from moving sufficiently to actuate the bolt.

1,478,978. WHEEL. ALFRED MATHIS, Eldorado, Ill. Filed Dec. 22, 1920. Serial No. 432,476. 1 Claim. (Cl. 301—25.)

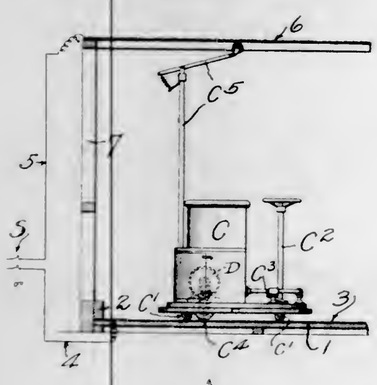
A wheel having a felly member, a rim member, one of said members having side flanges, lugs spanning the said flanges, lugs on the other member to engage opposite sides of the first mentioned lugs, flanges joining the first mentioned flanges of the other member to provide seats and having cutaway portions, bolts slidable across said seats through said cutaway portions, said bolts having

rack teeth, operating gearing engaging said rack teeth, the other member having wedges adapted to enter said



seats and notches to receive said bolts, and said wedges and bolts having cooperating enlargements for the purpose specified.

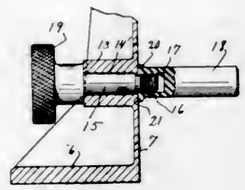
1,478,979. AMUSEMENT APPARATUS. MAX STOEHRER and HAROLD STOEHRER, Methuen, Mass., assignors to Stoehrer & Pratt Dodgen Corporation, Lawrence, Mass., a Corporation of Massachusetts. Filed Mar. 31, 1922. Serial No. 548,397. 4 Claims. (Cl. 191—13.)



1. A trolley system including in combination with a ceiling and floor both possessing electrical conductivity, a vehicle adapted to be supported by said floor, and being in electrical contact therewith, means connecting said vehicle with said ceiling, said ceiling presenting interstices.

1,478,980. ALIGNING JIG. LOLLA C. THORNTON, Fresno, Calif. Filed Aug. 22, 1922. Serial No. 583,648. 3 Claims. (Cl. 33—180.)

1. An aligning jig comprising a base; an upstanding wall on one edge of said base; a face plate on the upper end of said wall; a hub extending rearwardly from said wall intermediate its length; a spindle loosely mounted in said hub having one end threaded and its other



end terminating in a knurled hand wheel; and an arbor mounted on the end of said spindle in screw threaded engagement therewith.

1,478,981. COAL-GAS CARBURETOR. HENRY SWARTZ, Philadelphia, Pa. Filed July 20, 1921, Serial No. 486,127. Renewed Nov. 17, 1923. 4 Claims. (Cl. 126—15.)

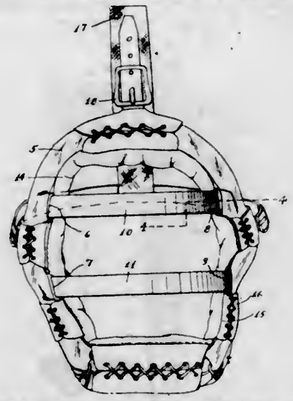


4. The combination with a plane stove lid; having an opening therethrough; of a tubular air conduit in said opening, having its outer end flush with said lid; a retort, connected to said tube, and rigidly connected by the latter to said lid; said retort inclosing a mixing chamber, supplied with air through said tube; said retort having a group of nozzles at the bottom thereof with vents extending therethrough; and a circular baffle plate, in said chamber, having a circumferential series of openings at its perimeter arranged to direct the air flowing from said tube to said nozzles in intimate contact with the wall of said retort.

1,478,982. BASEBALL MASK. HUGO GOLDSMITH, Cincinnati, Ohio, assignor to The P. Goldsmith Sons Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 17, 1922. Serial No. 575,557. 1 Claim. (Cl. 2—193.)

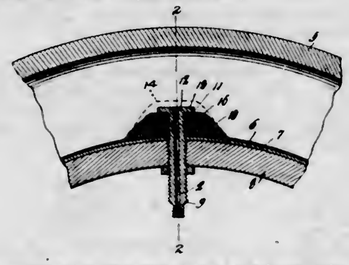
A base ball mask comprising a substantially oval metallic frame having a pair of pockets formed in each of its longer sides, and a pair of flat spring bands having

their opposite ends disposed in one each of the pockets formed in opposite sides of the frame, the bands being



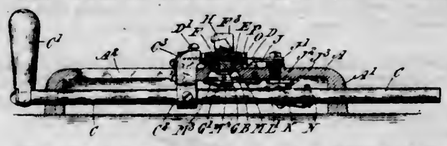
curved outwardly from the frame and being retained in the sockets by the spring action of the bands retaining the ends of the bands upon the walls of the pockets.

1,478,983. TIRE ATTACHMENT. HARLOW H. HATHAWAY, Phoenix, Ariz. Filed Nov. 15, 1921. Serial No. 515,365. 1 Claim. (Cl. 116—34.)



The combination of a tire casing and inner tube having a valve stem, of a bumper block formed with a concaved top, mounted on the valve stem between the casing and the inner tube, and through which said valve stem extends, the top edges of said block being beveled for contacting engagement with the tube and disposed in a plane above the head of the valve stem, whereby a bumping signal is produced when the inner tube is deflated.

1,478,984. APPARATUS FOR DARNING WOVEN OR KNITTED ARTICLES OR FABRICS. HENRY LLEWELYN KINGSMILL, Preston, England. Filed Feb. 9, 1923. Serial No. 618,143. 6 Claims. (Cl. 112—121.)



1. In apparatus for darning woven or knitted fabrics the combination of a bed plate, a work table comprising a pair of diagonally corrugated plates between which the fabric is gripped, having needle passages formed therein, straight guides formed in the bed plate in which the work table slides, a reciprocating member mounted in the bed plate and adapted to move in a path at right angles to that of the work table, a needle carried by the reciprocating member adapted to carry loops of thread successively through the needle passages in the work table, and means actuated by the reciprocating member for advancing the work table step by step along its guides as set forth.

1,478,985. ARTIFICIAL OR SYNTHETIC CHARCOAL AND PROCESS OF PRODUCING THE SAME. JACQUE CYRUS MORRELL, New York, N. Y. Filed Mar. 22, 1919. Serial No. 284,459. 23 Claims. (Cl. 127—2.)

12. In a process of making built-up structural adsorbent charcoal, mixing carbon with an emulsion of a binder which chars on heating, filtering, molding the residue under substantial pressure, charring the binding material therein and then activating by heating.

1,478,986. PROCESS FOR THE MANUFACTURE OF ARTIFICIAL CHARCOAL. JACQUE CYRUS MORRELL, New York, N. Y. Filed July 31, 1919. Serial No. 314,501. 12 Claims. (Cl. 252—3.)

1. In a process of making built-up structural adsorbent charcoal, mixing carbon in a finely divided condition with a solution in a low boiling solvent of a binder which chars on heating, distilling off the solvent, molding the residue under substantial pressure, charring the binding material therein and then activating by heating.

1,478,987. PRODUCTION OF ADSORBENT CHARCOAL. JACQUE C. MORRELL, Chicago, Ill. Filed Feb. 3, 1922. Serial No. 533,975. 21 Claims. (Cl. 252—3.)

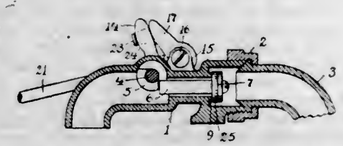
1. In a process of making built-up structural adsorbent charcoal, heating a mixture of carbon with a non-fluid binder which chars on heating to the softening point of the binder, molding the mixture under substantial pressure, charring the binding material therein and activating by heating.

1,478,988. COLLAR. JOHN V. MCNAMARA, Troy, N. Y. Filed Nov. 2, 1921, Serial No. 512,277. Renewed Oct. 31, 1923. 5 Claims. (Cl. 2—67.)



1. The process of making the body of a collar which comprises cutting the elongated blank strip diagonally at its corners to produce comparatively short corners extending at angles to the ends and longitudinal edges of the blank strip, then folding two of said corners over upon the blank strip, then folding the ends over upon the blank strip, then folding the longitudinal edges contiguous to the folded corners over upon the blank strip, then folding the ends over again upon the blank strip, this last folding of the ends including a folding of one half of each folded corner, then folding the folded longitudinal edge over upon the blank strip, this last folding of the longitudinal edge including the folding of the remaining edges of the folded corners and then permanently uniting the folded portions of the collar.

1,478,989. BALL COCK. GEORGE W. NASH, Chelsea, Mass. Filed June 11, 1921. Serial No. 476,727. 2 Claims. (Cl. 137—104.)



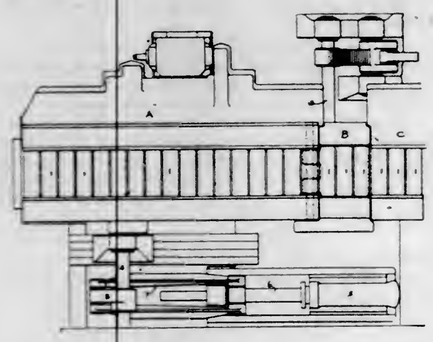
1. A ball cock comprising a valve seat, a valve adapted to be pressed into engagement with said seat by the water seeking to escape through the cock, a swinging

arm adapted when swung in one direction to open the valve, a float arm pivotally carried by the cock, and a cam attached to said float arm and adapted to actuate said swinging arm to open the valve.

1,478,990. SALT MANUFACTURE. CHARLES L. WEIL, Port Huron, Mich.; Ella S. Weil special administratrix of said Charles H. Weil, deceased. Filed Mar. 31, 1921. Serial No. 457,436. 9 Claims. (Cl. 23—13.)

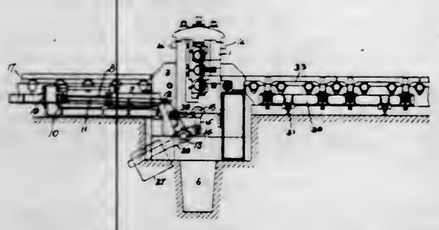
2. The art of making salt which comprises cooling a heated mixture of brine of vacuum-pan type with brine of a different type to cause the crystals of the two brines to knit together.

1,478,991. FEED TABLE FOR SHEARING MECHANISM. WENTZEL R. DUDA, Pittsburgh, Pa. Filed Jan. 16, 1923. Serial No. 529,520. 4 Claims. (Cl. 164—49.)



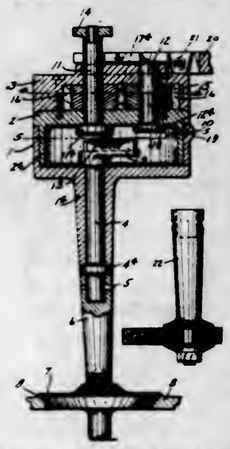
1. A feed table for shears, etc., having in combination longitudinally and vertically movable sections, means for simultaneously moving said sections, said means being adapted to impart a short reverse movement to the longitudinally movable section at the beginning of its movement in one direction and the end of its movement in the opposite direction.

1,478,992. ROLLING MILL. JOSEPH E. FAWELL, Pittsburgh, Pa. Filed Mar. 30, 1922. Serial No. 548,023. 3 Claims. (Cl. 80—31.1.)



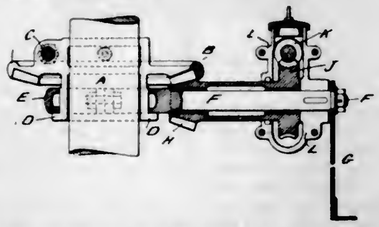
3. In a rolling mill the combination of a frame having vertical guide members, a housing movably arranged in said frame, upper, lower, and intermediate rolls carried by said housing, a shaft provided with arms extending under the housing for moving it vertically, stationary feed tables arranged on opposite sides of said frame, a manipulator arranged with one of said tables for moving blanks across the rolls and for simultaneously turning the blanks, and a motor connected to said shaft and to said manipulator for simultaneously turning the shaft and operating the manipulator.

1,478,993. COMBINATION TOOL AND GRINDER. JOSEPH T. TILLMAN, Minneapolis, Minn., assignor to (Mrs.) Gustave F. Kriesel. Filed Apr. 1, 1921. Serial No. 457,597. 6 Claims. (Cl. 74—14.)



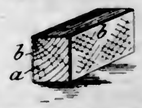
1. A tool of the class described having in combination a casing, a spindle journaled therein, a driving crank for said spindle, and an adjustable connection between said driving crank and spindle whereby said spindle can be either rotated or oscillated.

1,478,994. MECHANISM FOR TURNING SHIPS' DAVITS. AXEL WELIN, London, England, assignor to American Balsa Company, Inc., a Corporation of New York. Filed May 23, 1923. Serial No. 640,876. 7 Claims. (Cl. 9—22.)



1. Mechanism for turning ships' davits embodying, in combination, a davit arm, a loose collar supported on said davit arm, a gear wheel fast on said davit arm, a horizontal rod connected at one end to said loose collar and extending radially of said gear wheel; means for supporting the other end of said horizontal rod; a pinion supported on said rod and meshing with said gear wheel, and means for rotating said pinion.

1,478,995. MEANS FOR THE PRODUCTION OF LOAD-CARRYING SURFACES. GEORGE FREDERICK UNDERWOOD, London, England. Filed June 19, 1923. Serial No. 646,401. 6 Claims. (Cl. 94—11.)



1. Means for producing load carrying surfaces comprising single block units composed of a comparatively hard base material having a plurality of its vertical faces or sides completely covered with a preformed sheet of raw smoked rubber.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Adelson, Isaac J., doing business as Roberts Jewelry Co., Kansas City, Mo. Imitation white diamonds. 176,919; Dec. 4.

American Asphalt Association, St. Louis, Mo. Asphaltum. 176,902; Dec. 4.

American Bosch Magneto Corporation, Springfield, Mass. Ignition and starting apparatus for internal-combustion engines and electric-lighting systems for moving vehicles. 176,933; Dec. 4.

American Lady Corset Co., Detroit, Mich. Textile-fabric underwear for women and children. 176,885; Dec. 4; Serial No. 151,999; published Apr. 11, 1922.

American Wholesale Corporation (Baltimore Bargain House), Baltimore, Md. Suspenders and belts. 176,941; Dec. 4.

Arcady Farms Milling Company, Chicago, Ill. Prepared stock feed. 176,844; Dec. 4; Serial No. 178,205; published Aug. 21, 1923.

Astoria Flouring Mills Company, The, Portland, Oreg. Wheat flour. 176,847; Dec. 4; Serial No. 176,591; published Sept. 11, 1923.

Automobilwerke H. Büssing, Aktiengesellschaft, Braunschweig, Germany. Motor trucks and motor omnibuses. 176,904; Dec. 4.

Banning, Margery A., Evanston, Ill. Ginger bread and cookies. 176,864; Dec. 4; Serial No. 158,592; published Sept. 4, 1923.

Bixler Baking Company, The, Youngstown, Ohio. Bread. 176,841; Dec. 4; Serial No. 176,597; published Sept. 11, 1923.

Blake, C. C., Incorporated, Boston, Mass. Leather shoes. 176,887; Dec. 4; Serial No. 181,877; published Sept. 11, 1923.

Broeker, Chas., & Co., Owensboro, Ky. Wheat flour, hominy feed, and grits. 176,837; Dec. 4; Serial No. 179,179; published Sept. 11, 1923.

Cabrelli, Maria, and Baldassare Mirabile, New York, N. Y. Cigars. 176,825; Dec. 4; Serial No. 182,293; published Sept. 25, 1923.

Central Flatiron Mfg. Co., Johnson City, N. Y. Electric flatirons. 176,906; Dec. 4.

Central Laboratories Company, St. Louis, Mo. Preparation for the treatment and relief of headache, neuralgia, etc. 176,888; Dec. 4.

Century Brass Works, Inc., Belleville, Ill. Drinking and ice-cooled fountains and plumbing supplies. 176,943; Dec. 4.

Cliett, Oran W., San Marcos, Tex. Corn and cane seeds, cottonseed. 176,939; Dec. 4.

Consolidated Hat Co., New York, N. Y. Misses' and children's hats. 176,875; Dec. 4; Serial No. 181,674; published Sept. 11, 1923.

Continental Glue Co. (See Flach, Louis J.)

Cunningham, Edw. P., Inc., New York, N. Y. Men's hats. 176,886; Dec. 4; Serial No. 181,514; published Sept. 11, 1923.

Cyclone Fence Company, North Chicago, Ill. Metal refuse baskets. 176,938; Dec. 4.

Dairy Products Co., The. (See Kuhns, Jacob U., jr.)

De Bevoise, Chas. R., Co., Newark, N. J., and New York, N. Y. Brassières. 176,879; Dec. 4; Serial No. 181,983; published Sept. 11, 1923.

De Cameron, Inc., New York, N. Y. Perfumes. 176,903; Dec. 4.

Detmer, Bruner & Mason, Inc., New York, N. Y. Spool silk. 176,928; Dec. 4.

Detroit Graphite Company, Detroit, Mich. Oil paint. 176,913; Dec. 4.

Diehnelt, W., Inc., Milwaukee, Wis. Prepared mustard, honey, pickles, etc. 176,907; Dec. 4.

Dixie Mills, Clarksville, Tenn. Wheat and Graham flour, corn meal, and wheat feed. 176,856; Dec. 4; Serial No. 173,741; published Sept. 11, 1923.

Dixon Cereal and Feed Company, The, Dixon, Ill. Hog food. 176,855; Dec. 4; Serial No. 171,730; published Sept. 11, 1923.

Dunlap & Co., New York, N. Y. Hats. 176,834; Dec. 4; Serial No. 180,657; published Sept. 11, 1923.

Edel's, S. T., Sons, Baltimore, Md. Butter. 176,866; Dec. 4; Serial No. 161,415; published Sept. 11, 1923.

Ernst, Victor C., Cleveland, Ohio. Cameras. 176,884; Dec. 4; Serial No. 181,480; published Sept. 25, 1923.

Fashion Hat Company, New York, N. Y. Ladies', misses', and children's hats and caps. 176,870; Dec. 4; Serial No. 182,373; published Sept. 25, 1923.

Flach, Louis J., doing business as Continental Glue Co., Cincinnati, Ohio. Adhesive paste. 176,908; Dec. 4.

Flach, Louis J., doing business as Continental Glue Co., Cincinnati, Ohio. Adhesive paste. 176,910; Dec. 4.

Fletcher, John D., assignor to Ryco Extract Company, Louisville, Ky. Beverage sold as a soft drink. 176,863; Dec. 4; Serial No. 140,791; published Aug. 21, 1923.

Flexo Manufacturing Company, Philadelphia, Pa. Rubber heels and arch cushions. 176,835; Dec. 4; Serial No. 181,018; published Sept. 11, 1923.

Foley Food Product Company, Washington, D. C. Food product. 176,853; Dec. 4; Serial No. 175,480; published July 31, 1923.

Foote Mineral Co., Philadelphia, Pa. Radiocrystals. 176,912; Dec. 4.

Fowler, Meynell E., Chicago, Ill. Eggs. 176,862; Dec. 4; Serial No. 168,963; published Sept. 11, 1923.

Galeton Dairy Products Company, Galeton, Pa. Butter. 176,843; Dec. 4; Serial No. 177,837; published Aug. 21, 1923.

Gallagher, Thomas F., doing business as Gallagher Bros., Chicago, Ill. Butter. 176,865; Dec. 4; Serial No. 159,466; published Sept. 11, 1923.

Gallun, A. F., & Sons Co., Milwaukee, Wis. Leather. 176,890; Dec. 4.

Garhart Dental Specialty Company, Somerville, Mass. Alloy. 176,918; Dec. 4.

Garlock Packing Company, The, Palmyra, N. Y. Packing and packing material. 176,911; Dec. 4.

Goldman, William, doing business as The Modern Pressing Appliances, Brooklyn, N. Y. Steam-pressing machines for clothes. 176,889; Dec. 4.

Goodyear Tire & Rubber Company, Akron, Ohio. Vehicle rims, automobiles, motor trucks, etc. 176,897; Dec. 4.

Grossfeld, S. E., & Co., Chicago, Ill. Fruit preserves and honey. 176,934; Dec. 4.

Guidi, Raffaele, New York, N. Y. Preparation for gonorrhea and gleet. 176,931; Dec. 4.

H. & A. Manufacturing Company, The, Cleveland, Ohio. Eyeshades or visors. 176,868; Dec. 4; Serial No. 182,052; published Sept. 25, 1923.

Hanovia Chemical & Manufacturing Co., Newark, N. J. Quartz lamps. 176,915; Dec. 4.

Hoffmann, John, & Sons Co., Milwaukee, Wis. Evaporated milk, canned vegetables, fruit, etc. 176,839; Dec. 4; Serial No. 178,240; published Aug. 21, 1923.

Holstein Harvey, Inc., Wilmington, Del. Canned fruits and vegetables, condiments, rice, etc. 176,858; Dec. 4; Serial No. 166,369; published Sept. 11, 1923.

Hoy, F. P., Inc., New York, N. Y. Corsets. 176,869; Dec. 4; Serial No. 182,307; published Sept. 25, 1923.

Jessen, J. Carl, Hollywood, Calif. Motion pictures reproduced in copies. 176,878; Dec. 4; Serial No. 181,950; published Sept. 25, 1923.

Kinney, James M., Yonkers, N. Y. Brassières and corsets. 176,833; Dec. 4; Serial No. 181,898; published Sept. 11, 1923.

Kisker, John V., & Co., Cincinnati, Ohio. Eggs. 176,840; Dec. 4; Serial No. 178,258; published Aug. 21, 1923.

Kokomo Grocers Dairy Products Company, The, Kokomo, Ind. Bottled milk. 176,861; Dec. 4; Serial No. 168,533; published Sept. 11, 1923.

Kuhns, Jacob U., jr., doing business as The Dairy Products Co., Greensburg, Pa. Ice cream. 176,892; Dec. 4.

Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Wheat flour. 176,836; Dec. 4; Serial No. 178,744; published Sept. 11, 1923.

Legendy, Anna, Newark, N. J. Corn salves. 176,944; Dec. 4.

Levy, M. S., & Sons Inc., Baltimore, Md. Hats for men. 176,830; Dec. 4; Serial No. 181,490; published Sept. 11, 1923.

Lilienthal & Grossman, Inc., New York, N. Y. Cotton-fabric gloves. 176,901; Dec. 4.

Lind Shoe and Slipper Company, Worcester, Mass. Slippers. 176,831; Dec. 4; Serial No. 181,642; published Sept. 18, 1923.

Loose-Wiles Biscuit Company, Long Island City, N. Y. Cakes. 176,838; Dec. 4; Serial No. 179,542; published Sept. 11, 1923.

McGugan, James H., Havana, Ark. Preparation for the treatment of goiters. 176,923; Dec. 4.

Mama Cookie Bakery, Chicago, Ill. Cookies. 176,876; Dec. 4; Serial No. 181,758; published Sept. 25, 1923.

Manhattan Corset Company, New York, N. Y. Corsets, brassières, waists, bands. 176,914; Dec. 4.

Manufacturers Supplies Company, St. Louis, Mo. Threads. 176,935–7; Dec. 4.

Melville Shoe Corporation, New York, N. Y. Leather shoes. 176,829; Dec. 4; Serial No. 182,000; published Sept. 18, 1923.

Mid West Glass Company, The, Cincinnati, Ohio. Fluid gauges. 176,924; Dec. 4.

Model Mill Company, Jackson, Tenn. Self-rising wheat flour. 176,846; Dec. 4; Serial No. 175,803; published Aug. 21, 1923.

Modern Pressing Appliances. (See Goldman, William.)

Montevallo Mining Company, Birmingham, Ala. Coal. 176,845; Dec. 4; Serial No. 182,355; published Sept. 18, 1923.

Muralo Company, Inc., The, New Brighton, N. Y. Calcimines. 176,896; Dec. 4.

Muralo Company, Inc., The, New Brighton, N. Y. Calcimines. 176,900; Dec. 4.

National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuits, crackers, cookies, and cakes. 176,873; Dec. 4; Serial No. 181,644; published Sept. 25, 1923.
National Renovating & Supply Co., Kansas City, Mo. Disinfectant. 176,916; Dec. 4.
Nault, Henry B., doing business as Nault Oil Company, Somersworth, N. H. Oil liniment. 176,894; Dec. 4.
New Zealand Co-Operative Dairy Company Limited, The, Hamilton, New Zealand. Butter and cheese. 176,860; Dec. 4; Serial No. 168,332; published Sept. 4, 1923.
Oneida Community, Limited, Oneida, N. Y. Animal traps. 176,926; Dec. 4.
Owl Drug Company, The, San Francisco, Calif. Birdseed, flavoring extract, fish food, olive oil, etc. 176,859; Dec. 4; Serial No. 166,400; published Sept. 11, 1923.
Quaker Oats Company, The, Chicago, Ill. Rolled oats. 176,850; Dec. 4; Serial No. 174,751; published Sept. 4, 1923.
Quaker Oats Company, The, Chicago, Ill. Wheat flour, rolled oats, etc. 176,851; Dec. ; Serial No. 174,919; published Sept. 11, 1923.
Quaker Oats Company, The, Chicago, Ill. Rolled oats, corn meal, wheat flour, rye flour, etc. 176,874; Dec. 4; Serial No. 181,647; published Sept. 25, 1923.
Raybestos Company, The, Bridgeport, Conn. Rivets. 176,871; Dec. 4; Serial No. 182,549; published Sept. 25, 1923.
Real Silk Hosiery Mills, Indianapolis, Ind. Hosiery. 176,929–30; Dec. 4.
Ringler, Geo., & Co., New York, N. Y. Malt beverage. 176,932; Dec. 4.
Roberts Jewelry Co. (See Adelson, Isaac J.)
Rodriguez, Salvador, New York, N. Y. Cigars. 176,826–7; Dec. 4; Serial Nos. 182,264–5; published Sept. 25, 1923.
Rodriguez, Salvador, New York, N. Y. Cigars. 176,828; Dec. 4; Serial No. 182,262; published Sept. 25, 1923.
Rubberhide Company, Boston, Mass. Boots and shoes. 176,854; Dec. 4; Serial No. 170,992; published Sept. 18, 1923.
Rubinow, Joseph H., doing business as J. H. Rubinow, New York, N. Y. Ladies', misses', and children's hat linings. 176,832; Dec. 4; Serial No. 181,699; published Sept. 11, 1923.
Ryco Extract Company. (See Fletcher, John D., assignor.)
Sears, Roebuck and Co., Chicago, Ill., and Seattle, Wash. Lubricating oils. 176,909; Dec. 4.
Seiberling Rubber Company, Akron, Ohio. Rubber heels for boots and shoes. 176,921; Dec. 4.
Shelton Vapor Stove Company Indianapolis, Ind. Cooking and heating stoves. 176,898; Dec. 4.
Shirtcraft Co., Inc., The, New York, N. Y. Dress and negligee shirts for men. 176,920; Dec. 4.
Singh, Dayal, Chicago, Ill. Medicinal preparation. 176,905; Dec. 4.
Smith, Joseph I., doing business as Smith Bedding Company, Ogden, Utah. Bed springs and mattresses. 176,891; Dec. 4.
Southwestern Milling Company, Inc., The, New York, N. Y. Wheat flour. 176,880–2; Dec. 4; Serial Nos. 181,461–3; published Sept. 25, 1923.
Spencer, George C., doing business as Spencer Perfume Company, South Bend, Ind. Toilet waters. 176,925; Dec. 4.
Stetson, John B., Company, Philadelphia, Pa. Felt hats and caps for men and boys. 176,893; Dec. 4.
Templeton Coal Company, Terre Haute and Sullivan, Ind. Coal. 176,917; Dec. 4.
Thommen's Inc., Philadelphia, Pa. Bread, rolls, sweet dough, etc. 176,899; Dec. 4.
Thurston, W. Harris, & Co. Inc., New York, N. Y. Cotton piece goods. 176,848; Dec. 4; Serial No. 183,423; published Sept. 25, 1923.
Tottenville Copper Company Inc., Tottenville N. Y. Spelter. 176,945; Dec. 4.
Treo Company, Inc., New York, N. Y. Ladies' hose supporters, corsets, girdles, brassières. 176,922; Dec. 4.
Tropical Clothing Manufacturing Co. Inc., New Orleans, La. Men's coats and pants. 176,895; Dec. 4.
Twoby-Smith Company, Superior, Wis. Dried fruit, canned vegetables, peanut butter, etc. 176,842; Dec. 4; Serial No. 176,809; published Sept. 4, 1923.
Universal Wholesale Grocery Co., Chicago, Ill. Canned goods, etc. 176,857; Dec. 4; Serial No. 174,042; published Aug. 28, 1923.
Verman, R. S., Chicago, Ill. Medicine for diseases of the blood, etc. 176,927; Dec. 4.
Wallace, Arthur, Boston, Mass. Boots, shoes, slippers. 176,942; Dec. 4.
Ward Baking Company, New York, N. Y. Bread, rolls, biscuits, cakes, etc. 176,852; Dec. 4; Serial No. 175,374; published Sept. 4, 1923.
Washburn-Crosby Company, Minneapolis, Minn. Wheat flour. 176,883; Dec. 4; Serial No. 181,468; published Sept. 25, 1923.
Western Ohio Creamery Co., The, Greenville, Ohio. Butter. 176,849; Dec. 4; Serial No. 174,272; published Sept. 11, 1923.
Whippo Manufacturing Company, Quincy, Mass. Apparatus for beating eggs and like liquids. 176,867; Dec. 4; Serial No. 182,028; published Sept. 25, 1923.
Williams Manufacturing Company, The, Portsmouth, Ohio. Leather putties. 176,877; Dec. 4; Serial No. 181,799; published Sept. 11, 1923.
Wolverine Brass Works, Grand Rapids, Mich. Sink bibs, sink cocks, faucets, bath cocks, etc. 176,872; Dec. 4; Serial No. 182,783; published Sept. 25, 1923.
Wynne Lard & Provision Co. Inc., Norfolk, Va. Lard substitute. 176,940; Dec. 4.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Armand Company, The, Des Moines, Iowa. Savoly K Y X. For Powder Finger Nail Polish. 26,598; Dec. 4.
Bollinger, Alfred J., Orlando, Fla. Bollingers Malted Milk Bread. For Bread. 26,599; Dec. 4.
Cino Toy Works, Cincinnati, Ohio. Cino Miniature Farm. For Toy Houses, Barns, Outbuildings, Trees, Shrubbery, People, Animals, Poultry, and Other Things Common to a Farm Habitation. 26,600; Dec. 4.
Clegg, Henry B., Los Angeles, Calif. Clegg's (Representation of an eye) Grow Hair. For Hair Tonic. 26,601; Dec. 4.
Cofield Laboratories, Inc., Philadelphia, Pa. Pepsid. For a Preparation for Indigestion. 26,602; Dec. 4.
Cook Electric Company, Chicago, Ill. Ideal Nut Cracker. For Nutcrackers. 26,603; Dec. 4.
Desert Remedy Company, Tucson, Ariz., and Deming, N. Mex. Desert Remedy. For Ephedra Nevadensis. 26,604; Dec. 4.
Eline's Incorporated, Milwaukee, Wis. Eline's Pure Milk Chocolate Bonts—Buy Them for the Children. For Chocolate. 26,605; Dec. 4.
Eline's Incorporated, Milwaukee, Wis. Eline's Pure Milk Chocolate Boats, 5¢. For Chocolate. 26,606; Dec. 4.
Embossing Company, The, Albany, N. Y. The Embossing Company's Everedy Modelling Material. For Plastic Compositions or the Like for Modeling Purposes. 26,607; Dec. 4.
Frank, William, & Company, Inc., New York, N. Y. Antillas Brand Rock Lobster. For Lobsters. 26,608; Dec. 4.
French Sardine Co., East San Pedro, Calif. Messina. For Canned Tunny Fish. 26,609; Dec. 4.
Freund, Paul, Inc., New Orleans, La. Fairy Sweets, Adonis Candies. For Candies. 26,610; Dec. 4.
Fuller, J. E., doing business as J. E. Fuller Specialty Company, Kansas City, Kans. Flatenole. For a Preparation for Treating Typewriter Rollers. 26,611; Dec. 4.
Garside, H. B., Los Angeles, Calif. Kleenz 'em. For Hand Cleanser. 26,612; Dec. 4.
Golden Grain Butter Company. (See Menasha Printing and Carton Company, assignor.)
Hansen Hosiery House, Spokane, Wash. Dora-Dee. For Silk Hosiery for Women. 26,613; Dec. 4.
Heller, B., & Company, Chicago, Ill. Heller's Ice Cream Bouquet. For Dry Powder Flavoring Compound for Use in Flavoring Ice Cream. 26,614; Dec. 4.
High Grade Mills, Inc., New York, N. Y. Cheez-Kloth-Pack. For Cheesecloth. 26,615; Dec. 4.
Hilliard, David G., Trenton, N. J. Hilliard's Healing Hazel Cream. For Medicinal Preparation for the Treatment of the Skin. 26,616; Dec. 4.
Hirsch's Hair Bazaar Inc., St. Louis, Mo. Ask For The Hirschnet. For a Special One-Piece Folded and Printed Paper Envelope in Which Hirschnet Hair Nets Exclusively are Packed. 26,617; Dec. 4.
Hoffman, E. A., Candy Co., Los Angeles, Calif. Prince Charming. For Candy. 26,618; Dec. 4.
Hoye, Stephen M., New York, N. Y. Holly Champagne. For Extracts, Sirups, and Beverages. 26,619; Dec. 4.
Hoyt's Consumers Cracker & Biscuit Corporation, also doing business as Hoyt's Cracker & Biscuit Corporation, Los Angeles, Calif. Crisp'O'Lite. For Crackers. 26,620; Dec. 4.
Jersey Fruit Growers Co-operative Association, Camden, N. J. Jersey Jerry. For Crates Containing Fruits. 26,621; Dec. 4.
Kalamazoo Stationery Co., Kalamazoo, Mich. Gladice. For Writing Tablets. 26,622; Dec. 4.
Kellogg Company, Battle Creek, Mich. Kellogg's Corn Flakes. For Cereal Breakfast Food. 26,623; Dec. 4.
Kriel, Walter E., Baltimore, Md. Hercules. For Liquid Glue. 26,624; Dec. 4.
Kriel, Walter E., Baltimore, Md. Army & Navy. For Liquid Glue. 26,625; Dec. 4.
Laabs Bros. Company. (See Menasha Printing and Carton Company, assignor.)
Laura Hair Novelty Co. (See Thau, Charles K.)
Lemieux, Joseph O., doing business as J. O. Lemieux Company, Manchester, N. H. Vita Perfecta. For a Medicinal Compound. 26,626; Dec. 4.

Los Angeles Milo Wheat Co., Glendale, Calif. Milo wheat. For Cereal Food. 26,627; Dec. 4.
McKee Glass Company, Jeannette, Pa. Glasbake Guaranteed Glass Cooking Ware Juvenile Set Our "Betty Jane" Set. For Glass Cooking Dishes for Children's Use. 26,628; Dec. 4.
Menasha Printing and Carton Company, Menasha, Wis. Selected Eggs. For Cartons Containing Eggs. 26,629; Dec. 4.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Golden Grain Butter Company, Cape Girardeau, Mo. Golden Grain. For Butter. 26,630; Dec. 4.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Laabs Bros. Company, Milwaukee, Wis. Monarch. For Butter. 26,631; Dec. 4.
Milligan, G. D., Company, The, Springfield, Mo. Dixie Rose. For Hosiery. 26,632; Dec. 4.
Mulford, Hewett P., & Co., Lebanon, Ohio. A Mulford Product. For Cartons for Holding Bulbs. 26,633; Dec. 4.
Nelson Timer Company, Milwaukee, Wis. Nelson Ball Bearing Timer. For Timers. 26,634; Dec. 4.
Nulusta Company, Baltimore, Md. Nulusta Shoe Polish. For Tubes and Cartons Containing Shoe Polish. 26,635; Dec. 4.
Nunziato, Salvatore, doing business as Pacific Macaroni Co., Los Angeles, Calif. Liberty. For Macaroni. 26,636; Dec. 4.
Pacific Macaroni Co. (See Nunziato, Salvatore.)
Pearce, A. T., Miami, Fla. Black Point. For Fresh Tomatoes. 26,637; Dec. 4.
Phillips, Sidney M., doing business as Phillips Milling Co., Sacramento, Calif. Phillips Waffle and Pancake Flour. For Waffle and Pancake Flour. 26,638; Dec. 4.
Phillips, Sidney M., doing business as Phillips Milling Co., Sacramento, Calif. Phillips Minute Rice. For Rice. 26,639; Dec. 4.
Rochelle Canneries, Inc., Rochelle, Ill. Captain Kidd. For Peas. 26,640; Dec. 4.
Sanders, Matthew W., doing business as Sanders Printing Co., Chicago, Ill. 1000 Funny Faces. For Toy Puzzles. 26,641; Dec. 4.
Silver & Gold, Inc., New York, N. Y. Silver & Gold, Inc. The World's Standard Clothiers—Haberdashers. For Men's Clothing. 26,642; Dec. 4.
Smith & Holden, New York, N. Y. Red Girl. For Fresh Apples. 26,643; Dec. 4.
Smith & Holden, New York, N. Y. Red Boy. For Fresh Apples. 26,644; Dec. 4.
Special Paper Mfg. Co., New York, N. Y. Supreme Vellum. For Special Tracing Papers. 26,645; Dec. 4.
Special Paper Mfg. Co., New York, N. Y. Super-Bond Vellum. For Special Tracing Papers. 26,646; Dec. 4.
Sunset Club Bottling Co., Sherman, Calif. Sunset Club. For Grape Punch and Other Flavors of Carbonated Beverages. 26,647; Dec. 4.
Texas Citrus Fruit Growers Exchange, Mission, Tex. Texas Citrus Fruit Growers Exchange. For Citrous-Fruit Wrappers. 26,648; Dec. 4.
Thau, Charles K., doing business as Laura Hair Novelty Co., New York, N. Y. Laura Double Mesh Net. For Hair Nets. 26,649; Dec. 4.
Universal Importing Company, The, Montreal, Canada. Armistice. For Sardines. 26,650; Dec. 4.
Wander Company, The, Chicago, Ill. Alucol. For a Medicinal Preparation—Namely, an Antacid, Absorbent, Soothing Astringent. 26,651; Dec. 4.
Ward Baking Company, New York, N. Y. Ward's Milk-Maid Bread. For Bread. 26,652; Dec. 4.
Ward Baking Company, New York, N. Y. Ward's White Star Bread. For Bread. 26,653; Dec. 4.
Wish, Fred A., Inc., New York, N. Y. Uncle Wiggily's Outing. For Metallic Containers. 26,654; Dec. 4.
Wish, Fred A., Inc., New York, N. Y. Uncle Wiggily at the Seashore. For Metallic Containers. 26,655; Dec. 4.
Yarger & Syler, Canton, Ohio. Yes. For Water-Softening and Cleaning Powder. 26,656; Dec. 4.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Associated Knit Underwear Manufacturers of America, Utica, N. Y. Wear Knit Underwear. For Knit Underwear. 7,015; Dec. 4.
Boyd, Charles G., Bethlehem, Pa. Unquestionably The Best. For Foot Powders for Foot Baths. 7,016; Dec. 4.
Canada Dry Ginger Ale, Inc., New York, N. Y. Canada Dry, The Champagne of Ginger Ales. For Ginger Ale. 7,017; Dec. 4
Coty, Inc., Wilmington, Del., and New York, N. Y. Paris De Coty. For Perfume. 7,018; Dec. 4.
Cream of Wheat Co., Minneapolis, Minn. The 'Listless Age.' For Wheat Breakfast Food. 7,019; Dec. 4.
Georgia, Wm. B., Waco, Tex. Hightone Kut II. For Fancy Cut Spectacle and Eyeglass Lenses. 7,020; Dec. 4.
Georgia, Wm. B., Waco, Tex. Hightone Kut III. For Fancy Cut Spectacle and Eyeglass Lenses. 7,021; Dec. 4.
Georgia, Wm. B., Waco, Tex. Twilyte-Ra Kut Lenzez. For Fancy Cut Spectacle Eyeglass and Colored Lenses. 7,022; Dec. 4.
Heinz, H. J., Co., Pittsburgh, Pa. Fifty Years Ago—When the village grocer, etc. For Heinz 57 Varieties. 7,023; Dec. 4.
Jewel Tea Co. Inc., Chicago, Ill. Japanese Tea Gardens and Pickers. For Tea. 7,024; Dec. 4.
Krux, Frank, Chicago, Ill. Unity. For Stoves. 7,025; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. A Delight to Eye and Palate. For Ice Cream. 7,026; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. Three Delicious Dishes. For Ice Cream. 7,027; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. Winsomeness. For Ice Cream. 7,028; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. A Royal Feast. For Ice Cream. 7,029; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. Just As Good As It Looks. For Ice Cream. 7,030; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. Pineapple and Cherries. For Ice Cream. 7,031; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. Deliciousness with Crushed Fruits. For Ice Cream. 7,032; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. A Fountain Drink. For Ice Cream. 7,033; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. Real Food for Everyone. For Ice Cream. 7,034; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. It's a Treat Indeed. For Ice Cream. 7,035; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. A Delicious Dish. For Ice Cream. 7,036; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. Tempts Any Appetite. For Ice Cream. 7,037; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. Everybody's Favorite. For Ice Cream. 7,038; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. The Kiddies' Delight. For Ice Cream. 7,039; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. Good! Every Day in the Year. For Ice Cream. 7,040; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. Good as Gold. For Ice Cream. 7,041; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. Summer's Refreshment. For Ice Cream. 7,042; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. The Favorite of Childhood. For Ice Cream. 7,043; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. Autumn Glory. For Ice Cream. 7,044; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. The Pride of June. For Ice Cream. 7,045; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. His Best Effort. For Ice Cream. 7,046; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. A Wonderful Combination. For Ice Cream. 7,047; Dec. 4.
Mathews, Frederick C., Company, Detroit, Mich. Satisfaction in Both. For Ice Cream. 7,048; Dec. 4.
Pioneer Products Co., The, Dayton, Ohio. Chex—Thrills you with Cleanliness. For Soap. 7,049; Dec. 4.
Sealright Co. Inc., Fulton, N. Y. Sealright Paper Butter Tubs. For Sealright Paper Boxes. 7,050–1; Dec. 4.
Squibb, E. R., & Sons, New York, N. Y. A vitally important place in every home. For Household Products. 7,052; Dec. 4.
Squibb, E. R., & Sons, New York, N. Y. A new dental cream that halts Acid-Erosion at The Danger Line. For Dental Cream. 7,053; Dec. 4.
Squibb, E. R., & Sons, New York, N. Y. Nurses appreciate the Exceptional Purity of These Products. For Cold Cream. 7,054; Dec. 4.
Squibb, E. R., & Sons, New York, N. Y. Are you buying your medicine Cabinet requisites "in the dark?" For Drugs. 7,055; Dec. 4.
Towle Manufacturing Co., Newburyport, Mass. Solid Silver Precious through the Ages. For Solid Silverware. 7,056; Dec. 4.
Watkins, R. L., Company, The, Cleveland, Ohio. Keeping your child's hair beautiful. For Mulsified Coconut-Oil Shampoo. 7,057; Dec. 4.
Watkins, R. L., Company, The, Cleveland, Ohio. Why proper shampooing makes your hair beautiful. For Mulsified Coconut-Oil Shampoo. 7,058; Dec. 4.
Watkins, R. L., Company, The, Cleveland, Ohio. Why you must have beautiful well-kept hair—to be attractive. For Mulsified Coconut-Oil Shampoo. 7,059; Dec. 4.
Watkins, R. L., Company, The, Cleveland, Ohio. The charm of beautiful hair. For Mulsified Coconut-Oil Shampoo. 7,060; Dec. 4.
Watkins, R. L., Company, The, Cleveland, Ohio. The secret of having beautiful hair. For Mulsified Coconut-Oil Shampoo. 7,061; Dec. 4.
Weber Tool, Die and Machine Company, Middletown, Ohio. Dim Brite. For Dimming Switch on Automobile Steering Wheels. 7,062; Dec. 4.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Allen-Bradley Company, Milwaukee, Wis. Electrical resistance for wireless apparatus. 186,974; Dec. 4.
Alvord, Josephine L., Henderson, N. Y. Pelts of fur-bearing animals. 165,776; Dec. 4.
American Bleached Goods Company, Inc., New York, N. Y. Cotton piece goods. 176,525; Dec. 4.
American Bleached Goods Company, Inc., New York, N. Y. Cotton piece goods. 184,198–9; Dec. 4.
American Interseas Corporation, New York, N. Y. Woolen piece goods. 166,866; Dec. 4.
American Laundry Machinery Company, The, Cincinnati, Ohio. Clothes-pressing machines. 185,809; Dec. 4.
American Writing Machine Company, Ilion, N. Y., and Newark, N. J. Swinging shelf. 183,956; Dec. 4.
Anderson, M. V., & Company, Lewiston, Me. Perfumes, toilet water, sachet, etc. 180,955; Dec. 4.
Antle, Paul, doing business as Malnette Company, St. Louis, Mo. Face powder, cold and vanishing cream, lip stick, etc. 182,394; Dec. 4.
Arcularius, Dr. Rudolf, doing business as Arcula, Chemische Fabrik, Rostock, Germany. Preparation for treatment of indigestion. 175,697; Dec. 4.
Arden Products Corporation, The, Chicago, Ill. Garment bag. 185,911; Dec. 4.
Armand Company, The, Des Moines, Iowa. Face powder, cold cream, rouge, and perfume. 183,243; Dec. 4.
Armand Company, The, Des Moines, Iowa. Rouge. 183,244; Dec. 4.
Ashton, James, Baron, doing business as Jas. Williamson & Son, Lancaster, England. Fabric for window shades. 172,190; Dec. 4.
Ashton, James, Baron, Lancaster, England. Oil fabrics for floor coverings, table coverings, etc. 172,191; Dec. 4.
Ashton, James, Baron, doing business as Jas. Williamson & Son, Lancaster, England. Linoleum. 172,192; Dec. 4.
Atlantic Metal Hose Co., Inc., New York, N. Y. Flexible metal hose. 180,684; Dec. 4.
Auth, N., Provision Company, Washington, D. C. Bovine, swinish, and mutton meat and meat products. 185,282; Dec. 4.
B. B. & R. Knight, Inc., Providence, R. I., and New York, N. Y. Bleached cotton piece goods. 183,215; Dec. 4.
Ballantyne, D., Brothers & Co., Limited, Peebles, Scotland. Cloths and stuffs of wool, worsted, and hair. 185,913; Dec. 4.
Baltimore Water Paint Company. (See Swartz, Milton D.)
Banner Silk Knitting Mills, Inc., The, New York, N. Y. Knitted silk fabric. 185,948; Dec. 4.
Barbian y Rimathe, Flor, Malaga, Spain. Olive oil. 180,320; Dec. 4.
Barrett Company, The, New York, N. Y. Bituminous material for compounding rubber. 186,456–9; Dec. 4.
Bartlett, Vern C., Joplin, Mo. Bath or flux. 171,195; Dec. 4.
Barton, H. H., & Son Co., Inc., Philadelphia, Pa. Abrasive papers or cloths. 170,001; Dec. 4.
Beck, Wm. & Chas., Inc., Lawrence, Mass. Linen fire hose. 185,648; Dec. 4.
Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical plug clusters. 186,582; Dec. 4.
Benjamin Electric Manufacturing Company, Chicago, Ill. Plug sockets. 186,865; Dec. 4.
Bennett Glass & Paint Company, Salt Lake City, Utah. Paints, varnishes, and paint enamels. 185,649; Dec. 4.
Benz Toilet Products, Inc., Syracuse, N. Y. Talcum and face powders, face creams, etc. 185,198; Dec. 4.
Best & Co. Inc., New York, N. Y. Misses' and girls' furnishings, undergarments, and clothing. 185,550; Dec. 4.
Beuret & Company, Incorporated, New York, N. Y. Piece goods of cotton, mohair, etc., for men's suiting. 183,464; Dec. 4.
Bixby, S. M., & Co. Inc., Brooklyn and Buffalo, N. Y. Shoe polish and dressing. 187,083; Dec. 4.
Block, Isaac S., doing business as Peggy Page Candy Co., Chicago, Ill. Candies. 162,237; Dec. 4.
Bluford Specialty Co. (See Taylor, G. L.)
Bobet Brothers, Inc., New Orleans, La. Staves. 179,581; Dec. 4.
Bonded Products Corporation, New York, N. Y. Cold cream. 184,585–6; Dec. 4.
Bonifacio, Gastone, New York, N. Y. Envelope-addressing stencils. 180,505; Dec. 4.
Bonwit Teller & Co., New York, N. Y. Cigarettes and smoking tobacco. 176,598; Dec. 4.
Brandes, C., Inc., New York, N. Y. Loud-speaking telephones. 185,915; Dec. 4.
Bull Dog Plaster Grip Company, Oakland, Calif. Fasteners for securing and spacing metal laths. 180,324; Dec. 4.

Byron, Fred, San Francisco, Calif. Ready-mixed paints, varnishes, paint oils, and putty. 182,905; Dec. 4.
Cabot, Samuel, Inc., Boston, Mass. White covering composition. 187,295; Dec. 4.
California Co-Operative Canneries, San Francisco, Calif. Fruit salad, canned fruits and vegetables. 178,822; Dec. 4.
Campbell, John, & Co., New York, N. Y. Color-stripping or dye-removing compound. 184,589–90; Dec. 4.
Caporale, Pasquale A., doing business as Leoncavallo Sauce Company, Philadelphia, Pa. Spaghetti and spaghetti sauces. 181,939; Dec. 4.
Carbide & Carbon Chemicals Corporation, New York, N. Y. Portable containers. 186,178; Dec. 4.
Carrozza, Joseph, Philadelphia, Pa. Hair grower and scalp massage. 185,073; Dec. 4.
Catalano, M., and Company, Milwaukee, Wis. Olive oil. 183,639; Dec. 4.
Chandlee, H. P., Sons Co., Baltimore, Md. Ash, garbage, and oil cans, trash burners, etc. 186,179; Dec. 4.
Chas. Dougils Mack Co., New York, N. Y. Men's, young men's, and boys' clothes. 184,069; Dec. 4.
Chemosan Aktiengesellschaft, Vienna, Austria. Medicines and pharmaceutical preparations. 184,233; Dec. 4.
Childers, Jessie, doing business as Hegarty & Childers, Springfield, Ill. Hair-restorer compounds. 185,004; Dec. 4.
Chiswick Polish Co. Ltd., The, Chiswick, London, England. Polishes for furniture, floors, and automobiles. 183,731; Dec. 4.
Choc-o-Vita Company, The. (See Hunter, H. Blount.)
Climax Hosiery Mills, Athens, Ga. Hosiery. 185,449; Dec. 4.
Cohn Hall Marx Co., New York, N. Y. Cotton piece goods. 179,518; Dec. 4.
Columbus Chemical Company, The, Columbus, Ohio. Ointment for burns, cuts, etc. 165,745; Dec. 4.
Columbus Chemical Company, The, Columbus, Ohio. Salve for colds, catarrh, etc. 165,746; Dec. 4.
Consolidated Co.—Coal Division, Inc., Chicago, Ill. Coal. 186,105; Dec. 4.
Consolidated Electric Company, Chicago, Ill. Electric fans. 186,946; Dec. 4.
Crenshaw & Horne, Augusta, Ga. Preparation for use in the treatment of tuberculosis. 183,820; Dec. 4.
Crown Radio Mfg. Corp., New York, N. Y. Radio electric apparatus. 184,202; Dec. 4.
Cupples Company Manufacturers, St. Louis, Mo. Golf balls. 183,823; Dec. 4.
Dakin Laboratories, Buffalo, N. Y. Cold, vanishing, lemon, etc., creams. 184,896; Dec. 4.
Daly, C. H., & Son Shoe Company, Inc., Abington, Mass. Leather boots and shoes. 178,432; Dec. 4.
Daniel, Jno. B., Inc., Atlanta, Ga. Expectorant. 183,518; Dec. 4.
Davies, Rose & Co., Ltd., Boston, Mass. Refined lubricant. 168,455; Dec. 4.
Dectograph Products Corporation, New York, N. Y. Telephonic head sets. 185,987; Dec. 4.
De Land Citrus Growers Assn., De Land, Fla. Fresh citrous fruits. 172,863; Dec. 4.
Denney & Company of Oregon, Medford, Oreg. Fresh deciduous fruits. 183,646; Dec. 4.
Detro Sales Service Co., Detroit, Mich. Glass antiglare shields. 174,512; Dec. 4.
Detroit Hosiery Company, Detroit, Mich. Hosiery. 177,964; Dec. 4.
Diem & Wing Paper Co., The, Cincinnati, Ohio. Wrapping paper. 186,875; Dec. 4.
Diem & Wing Paper Co., The, Cincinnati, Ohio. Wrapping paper. 186,877; Dec. 4.
Diem & Wing Paper Co., The, Cincinnati, Ohio. Blasting paper. 186,878–9; Dec. 4.
Diem & Wing Paper Co., The, Cincinnati, Ohio. Wrapping paper. 186,883; Dec. 4.
Diem & Wing Paper Co., The, Cincinnati, Ohio. Bond paper. 186,885; Dec. 4.
Duo-Art Belleek Co., Trenton, N. J., and Newtown Borough, Pa. Pottery ware. 185,209; Dec. 4.
E-Z-Way Co., Oakland, Calif. Soap in powdered form. 183,648; Dec. 4.
Economy Fuse and Manufacturing Company, Chicago, Ill. Electrical fuses. 186,318; Dec. 4.
Elliot, James F., doing business as Stillwater Orchards Co., Courtland, Calif. Fresh deciduous fruits. 184,661; Dec. 4.
Emblem Manufacturing Company, Angola, N. Y. Cycles. 169,159; Dec. 4.
Enterprise Mattress Company, Boston, Mass. Mattresses. 181,066; Dec. 4.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Estate of J. M. Fey, by Peoples Savings & Trust Co., administrator, Hazleton, Pa. Coffee. 183,472; Dec. 4.
Everett, Heaney & Co. Inc., New York, N. Y. Cotton piece goods. 173,182; Dec. 4.
F. & I. Tobacco Products Company. (See Zook, Charles A. B.)
Famous Tailors Corporation, Chicago, Ill. Men's suits and overcoats. 165,491; Dec. 4.
Federal Fruit Distributors, Fresno, Calif. Fresh grapes, peaches, plums, and citrous fruits. 182,374; Dec. 4.
Fishback Co., The, Indianapolis, Ind. Coffee. 166,671; Dec. 4.
Fluenzol Proprietary, Ltd., The, Wellington, New Zealand, and New York, N. Y. Medicinal preparation. 169,896; Dec. 4.
Forowicz, Frank, Homestead, Pa. Medicinal tea. 183,370; Dec. 4.
Fortuna-Werke Spezialmaschinenfabrik G. m. b. H., Cannstatt, Germany. Optical apparatus, drawing and copying apparatus, etc. 182,507; Dec. 4.
Fortuna-Werke Spezialmaschinenfabrik G. m. b. H., Cannstatt, Germany. Machines and apparatus for working leather, etc. 182,508; Dec. 4.
Foster, L. B., Co., Inc., Pittsburgh, Pa. New and renewed steel rails. 184,072–3; Dec. 4.
Freedman, Benjamin S., Company, Scranton, Pa. Hair nets. 185,515; Dec. 4.
Friedrich-Friedrich Co., Inc., Philadelphia, Pa. Face powder. 184,819; Dec. 4.
Froidevaux Cie. (See Thomas, Lillian S.)
Fuller, James C., Kansas City, Mo. Shampoo preparation. 185,281; Dec. 4.
Fulier-Morrison Company, Chicago, Ill. Sanitary elastic woven belts and cotton napkins for women. 185,218; Dec. 4.
Geigy Company, Inc., New York, N. Y. Dyestuffs. 184,721; Dec. 4.
Gerber & Co. Ltd., Thoune, Switzerland. Cheese. 158,389; Dec. 4.
Gilbert Bros. & Co., Inc., Baltimore, Md. Conditioning powder to be added to horse, cattle, and poultry feed. 183,373; Dec. 4.
Gilbert Bros. & Co., Inc., Baltimore, Md. Cream for cleansing the skin, etc. 183,375; Dec. 4.
Glenn, Maggie T., Albuquerque, N. Mex. Hair growers, temple growers, and pressing oil. 184,548; Dec. 4.
Goetze, Frederick, New Brunswick, N. J. Gaskets and metallic packing. 186,551; Dec. 4.
Gordon, Cyrus P., New York, N. Y. Boys' shirts and blouses. 185,455–6; Dec. 4.
Graham, Albert I., doing business as The Piromir Co., Hastings, Nebr. Tooth paste. 183,448; Dec. 4.
Graham Bros. Soap Company, Chicago, Ill. Soap. 185,016; Dec. 4.
Gray Tractor Co., Inc., The, Minneapolis, Minn. Tractors and road-grading machines. 185,120; Dec. 4.
Green, Chas., Company, Inc., New York, N. Y. Paper covers. 186,472; Dec. 4.
Haas Brothers Fabrics Corporation, New York, N. Y. Silk, artificial-silk, cotton, linen, and woolen piece goods. 183,924; Dec. 4.
Hamersley Manufacturing Company, The, New York, N. Y. Wax paper. 181,445; Dec. 4.
Hammond, Judd E., doing business as Hammond Ironized Aspirin Company, Munday, Tex. Medicine for the relief of pain. 167,916; Dec. 4.
Hanes Hosiery Mills Company, Winston-Salem, N. C. Hosiery. 185,458; Dec. 4.
Hanovia Chemical & Manufacturing Co., Newark, N. J. Quartz lamps. 185,123; Dec. 4.
Hanzel, Stanley F., doing business as S. F. Hanzel Card Co., Chicago, Ill. Playing cards. 183,068; Dec. 4.
Harris & Barnett, New York, N. Y. Ladies' muslin underwear. 185,581; Dec. 4.
Hatheway & Reynolds, Oriskany Falls and New York, N. Y. Sweaters, knit coats, and bathing suits. 185,658; Dec. 4.
Hegarty & Childers. (See Childers, Jessie.)
Henry-Brown Company, Inc., Glendale, Calif. Nonalcoholic beverage and sirup used in preparation of same. 187,311; Dec. 4.
Herr's Laboratories, Limited. (See Jahn, E. J., Company.)
Hinck, Otto H., New York, N. Y. Cotton piece goods. 180,664; Dec. 4.
Hirsh, Wickwire Company, Chicago, Ill. Men's outer garments of clothing. 165,192; Dec. 4.
Hoepfner, Charles, doing business as Charles Hoepfner & Co., Chicago, Ill. Germicide and worm remedy for stock. 184,729; Dec. 4.
Hoffman, E. A., Candy Co., Los Angeles, Calif. Candy. 182,096; Dec. 4.
Hoffman, Joseph S., Baltimore, Md. Boy's and children's outer-wear suits. 182,970; Dec. 4.
Holophane Glass Company, New York, N. Y. Glass globes and reflectors for artificial light. 182,813–4; Dec. 4.
Hoos, Bernard J., Baltimore, Md. Ash trays. 186,475; Dec. 4.
Hudson Manufacturing Company, The, Minneapolis, Minn. Sprayers and parts thereof. 186,999; Dec. 4.
Hudson Manufacturing Company, The, Minneapolis, Minn. Sprayers and parts thereof. 187,001; Dec. 4.
Hudson Manufacturing Company, The, Minneapolis, Minn. Sprayers and parts thereof. 187,003; Dec. 4.
Hunter, H. Blount, doing business as The Choc-o-Vita Company, Norfolk, Va. Food product composed of chocolate, cocoa, sugar, and milk. 179,304; Dec. 4.
Ica, Aktiengesellschaft, Dresden, Germany. Photographic lenses. 181,075; Dec. 4.
Ide, George P., & Company, Inc., Troy, N. Y. Outer dress shirts. 166,831; Dec. 4.
Illinois Watch Case Company, Elgin, Ill. Watchcases and watch movements. 183,706; Dec. 4.
Imperial Glass Company, Bellaire, Ohio. Ornamental and table glassware. 185,929; Dec. 4.
International Harvester Company, Chicago, Ill. Binders, reapers, mowers, hayrakes, etc. 181,280; Dec. 4.
International Rubber Co. of America, Anderson, Ind. Vehicle tires, including outer casings and inner tubes. 186,276; Dec. 4.
International Shoe Company, St. Louis, Mo. Men's shoes of leather. 183,298; Dec. 4.
International Standard Exporting Corporation, New York, N. Y. Garters, belts, suspenders, etc. 148,076; Dec. 4.
Israel, Daniel G., doing business as Peerless Chemical Co., Secaucus, N. J. Skin lotion. 184,860; Dec. 4.
Jahn, E. J., Company, doing business as Herr's Laboratories, Limited, Detroit, Mich. Face lotion. 184,861; Dec. 4.
Jefferson Silk Company, Inc., New York, N. Y. Piece goods made of silk and artificial silk. 185,710; Dec. 4.
Jenkins Drug Company, Bryan, Tex. Remedy for diseases of the stomach, blood, etc. 175,198; Dec. 4.
Keller, George J., Newark, N. J. Watches. 175,429; Dec. 4.
Kenwood Dairy Company, Chicago, Ill. Raw milk. 176,082; Dec. 4.
Keystone Refractories Company, Jersey City, N. J. Furnace mortar. 184,913; Dec. 4.
Kilgore Mfg. Co., The, Westerville, Ohio. Pistols. 186,914; Dec. 4.
King's Food Products Company, Portland, Oreg. Canned and dehydrated fruits and vegetables. 165,392; Dec. 4.
Kirsch, H., & Company, Brooklyn, N. Y. Ginger ale, sarsaparilla, etc., sold as soft drinks and sirup for making the same. 187,319; Dec. 4.
Klipstein, Tobias, New York, N. Y. Coats. 159,267; Dec. 4.
Koncrete Exterior Stucco Company. (See Platner, William H.)
Kroger Grocery & Baking Co., The, Cincinnati, Ohio. Bread. 153,885; Dec. 4.
La Creole Laboratories. (See Van Vleet-Mansfield Drug Co.)
La Crosse Rubber Mills Co., La Crosse, Wis. Rubber boots and shoes. 171,370; Dec. 4.
Lakeside Forge Company, Erie, Pa. Tools, particularly pliers and wrenches. 185,660; Dec. 4.
Lanco Coupler Company, Lancaster, Pa. Variocouplers. 187,109; Dec. 4.
Law, Walter B., Dunellen, N. J. Coffee. 167,357; Dec. 4.
Le Baron, Oscar J., doing business as The Le Baron Co., Healdsburg, Calif. Fresh grapes. 185,661; Dec. 4.
Lee Tire & Rubber Co., Conshohocken, Pa. Pneumatic tires. 185,169; Dec. 4.
Leek Brothers, Morristown, N. J. Painters' and decorators' drop cloths. 150,969; Dec. 4.
Leiser, Herman, doing business as Herman Leiser Co., New Orleans, La. Electrically-operated signals for automobiles, etc. 184,975; Dec. 4.
Leoncavallo Sauce Company. (See Caporale, Pasquale A.)
Levussove, Louis, New York, N. Y. Human and animal hair. 177,496; Dec. 4.
Levy, J. P., Shoe Co. Inc., Hartford, Conn. Boots and shoes. 182,662; Dec. 4.
Lew-Mar Products Company, New York, N. Y. Rubber bathing caps and water guards for bathing caps. 182,475; Dec. 4.
Lewis Manufacturing Company, Walpole, Mass. Sanitary napkins. 186,241; Dec. 4.
Linder, Harry R., Los Angeles, Calif. Coffee, spices, peanut butter, salad oil, etc. 182,157; Dec. 4.
Los Angeles Foundry Company, Los Angeles, Calif. Steel and iron castings. 186,018; Dec. 4.
Louis Stix Co., The Cincinnati, Ohio, and New York, N. Y. Brown cottons in the piece. 178,680; Dec. 4.
Loving, George K., doing business as G. K. Loving Co., Richmond, Va. Food-flavoring extracts. 164,176; Dec. 4.
Lyon & Healy, assignor to Lyon & Healy, Inc., Chicago, Ill. Musical instruments and supplies for talking machines. 167,990; Dec. 4.
McCallum Hosiery Co., Northampton, Mass. Hosiery. 186,562; Dec. 4.
McKee Glass Company, Jeannette, Pa. Sets of glass cooking ware for children. 187,261; Dec. 4.
Malnette Company. (See Antle, Paul.)
Maison Gerry, Inc., New York, N. Y. Cream, lotion, powder, etc. 174,139; Dec. 4.
Malcuit, Alphonse, Pittsfield, Mass. Ointment for hemorrhoids. 184,507; Dec. 4.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Mani-Fold Company, The, Cleveland, Ohio. Blank forms. 168,773; Dec. 4.
Marinello Company, La Crosse, Wis. Brilliantine. 184,979; Dec. 4.
Mecke & Co., New York, N. Y. Coffee. 183,528–9; Dec. 4.
Medoc Company, Milwaukee, Wis. Medicinal preparation. 177,237; Dec. 4.
Mei Ren Company, Inc., Shanghai, China. Games played with pieces somewhat similar to dominoes. 184,556; Dec. 4.
Mello-Derma Company. (See Van Gesen, James H.)
Menstrual Laboratories. (See Steckler, Nathan P.)
Meyer, Geo. F., Seymour, Ind. Face and hand lotion. 182,763; Dec. 4.
Millville Manufacturing Company, The, Philadelphia, Pa. Diaper cloth in the piece. 171,854; Dec. 4.
Minot, Hooper & Co., New York, N. Y. Cotton piece goods. 168,896; Dec. 4.
Minute Tapioca Company, Orange, Mass. Tapioca preparations. 180,546; Dec. 4.
Mitchell, G. F., & Son, Cleveland, Ohio. Washing machines and wringers. 183,754; Dec. 4.
Modern Pharmacal Co., Inc., New York, N. Y. Preparation intended to remove superfluous fat. 184,616; Dec. 4.
Montague, B. F., Company, Inc., New York, N. Y. Fabric gloves. 181,054; Dec. 4.
Morana, Incorporated, New York, N. Y. Essential oils suitable for the production of perfumes. 185,129–33; Dec. 4.
Morisse Lace & Embroidery Co., St. Louis, Mo. Laces, handkerchiefs, embroideries, etc. 177,985; Dec. 4.
Moth K-L Company, Inc., New York, N. Y. Insecticides. 168,721; Dec. 4.
Mu-Rad Laboratories, Inc., Asbury Park, N. J. Radiotelephone receiving loops, radiofrequency transformers, etc. 185,665; Dec. 4.
Murdock, C. A., Mfg. Co., Kansas City, Mo. Spices, prepared mustard, and prepared mustard cream salad. 180,879; Dec. 4.
Murdoff-Spicer Manufacturing Company, Los Angeles, Calif. Pipe and boiler insulating materials and refrigerator-pipe insulation. 178,057; Dec. 4.
Namco Products Corporation, New York, N. Y. Hair nets. 185,307; Dec. 4.
National Mayonnaise Machine Company, Brooklyn, N. Y. Mayonnaise-making machines. 185,835; Dec. 4.
National Renovating & Supply Co., Kansas City, Mo. Liquid paint and varnish remover. 185,135; Dec. 4.
Necol Industrial Collodions, Limited, London, England. Plastic preparation. 185,375; Dec. 4.
Newman & Co., New York, N. Y. Hosiery for men. 185,492; Dec. 4.
Nielsen Packing Co., San Francisco, Calif. Canned fruits and vegetables. 181,845; Dec. 4.
Nielsen Packing Co., San Francisco, Calif. Canned fruits and vegetables. 181,852; Dec. 4.
Noack, Walter G., Stockton, Calif. Water-pressure systems, pumps, and engines and parts thereof. 186,246; Dec. 4.
Noesting Pin Ticket Company, Incorporated, Mount Vernon, N. Y. Pin tickets, paper clips, tags, and thumb tacks. 166,199; Dec. 4.
Northwestern Bakers & Confectioners Co., Minneapolis, Minn. Baking powder, bicarbonate of soda, carbonic powder, etc. 181,855; Dec. 4.
Norwalk Tire & Rubber Company, The, Norwalk, Conn. Elastic vehicle tires. 182,926; Dec. 4.
O'Neil, Gertrude C., doing business as O'Neil's Pharmacy, Taunton, Mass. Medicine for coughs, colds, bronchitis, etc. 184,511; Dec. 4.
Oakford & Fahnestock, Peoria, Ill. Baking powder, cream of tartar, bluing, and ammonia. 169,920; Dec. 4.
Oriental Silk Printing Company, Haledon, N. J., and New York, N. Y. Textile fabrics, also silk ribbons. 185,141; Dec. 4.
Osakeyhtio Savo, Ltd., Kuopio, Finland. Matches. 187,481–3; Dec. 4.
Pacific Commercial Company, Manila, P. I., and New York, N. Y. Wheat flour. 168,728; Dec. 4.
Page, Percy E., New York, N. Y. Face and talcum powders, face creams, perfumes, etc. 184,982; Dec. 4.
Pagonis, George, doing business as George Pagonis Co., New York, N. Y. Shampoo preparations. 183,312; Dec. 4.
Pagonis, George, doing business as George Pagonis Co., New York, N. Y. Waving and curling preparation for the hair. 183,313; Dec. 4.
Pardoe, J. A., Co., Omaha, Nebr. Toasted pop corn. 173,671; Dec. 4.
Peek, Frean and Company, Limited, London, England. Confectionery. 168,937; Dec. 4.
Peerless Chemical Co. (See Israel, Daniel G.)
Peerless Cotton Mills, Thomaston, Ga. Sheets, sheeting, pillowcases, etc. 182,989; Dec. 4.
Peerless Cotton Mills, Thomaston, Ga. Sheets, sheeting, pillowcases, etc. 182,991; Dec. 4.
Peggy Page Candy Co. (See Block, Isaac E.)
Peninsular Honey Producers, Rudyard, Mich. Comb and extracted honey. 171,194; Dec. 4.
Peoples Savings & Trust Co., administrator. (See Estate of J. M. Fey.)
Perelstine, Morris S., Pittsburgh, Pa. Shoes. 167,893; Dec. 4.
Pheno-Bane Products Co., Sand Springs, Okla., and St. Louis, Mo. Disinfectants, deodorants, cleaners, etc. 183,720; Dec. 4.
Picot, Jules, assignor to Societe Anonyme de la Lessive Phenix Etablissements J. Picot, Paris, France. Lye products. 180,774; Dec. 4.
Pierce, S. S., Co., Boston, Mass. Fruit sirups for soft drinks. 181,041; Dec. 4.
Pine Ridge Coal Company, Detroit, Mich. Semibituminous coal. 185,310; Dec. 4.
Piromir Co., The. (See Graham, Albert L.)
Plant, Thomas G., Company, Boston, Mass. Boots, shoes, and slippers. 167,097; Dec. 4.
Platner, William H., doing business as Koncrete Exterior Stucco Company, Omaha, Nebr. Portland-cement stucco mixture. 170,786; Dec. 4.
Powers, Timothy B., doing business as Powers Manufacturing Company, New York, N. Y. Screw drivers. 167,895; Dec. 4.
Premier Refining Company, Indianapolis, Ind. Gasoline. 176,215; Dec. 4.
Pressed Prism Plate Glass Company, Morgantown, W. Va. Glass. 187,346; Dec. 4.
Pride Underwear Co., Inc., New York, N. Y. Men's textile-fabric underwear. 185,535; Dec. 4.
Pro-Tar Manufacturing Company, The, Kansas City, Mo. Liquid preparation used for concrete and metal tank lining. 185,041; Dec. 4.
Radio Condenser Co., Camden, N. J. Electrical condensers. 186,856; Dec. 4.
Rains, Solomon E., doing business as S. E. Rains Company, New York, N. Y. Kerchiefs and handkerchiefs. 151,521; Dec. 4.
Rancho Sespe, Sespe, Calif. Citrous fruits. 184,685; Dec. 4.
Regan, Henry G., New York, N. Y. Publication issued weekly. 185,091; Dec. 4.
Reilly, John R., Los Angeles, Calif. Inner tubes and rubber-tire covers. 185,230; Dec. 4.
Republic Rubber Company, The, Youngstown, Ohio. Fire and garden hose. 186,614; Dec. 4.
Roller, D. Henry, doing business as Henry Roller, Muncie, Ind. Candies. 182,692; Dec. 4.
Rosenwasser Bros., Inc., Astoria, N. Y. Leather shoes. 164,071; Dec. 4.
Rosenzweig, Joseph, Troy, N. Y. Underwear, shirts, drawers, notions, etc. 179,430; Dec. 4.
Ryerson, Mell, doing business as South Side Cafe, Marengo, Iowa. Ice-cream confection. 185,723; Dec. 4.
S. S. White Dental Manufacturing Company, The, Philadelphia, Pa. Food paste. 185,044; Dec. 4.
Saltrates Limited, London, England. Saline preparation for rheumatism, kidney disorders, etc. 183,598; Dec. 4.
Saunders Lone Star Seed Co. Inc., Greenville, Tex. Cottonseed. 165,970; Dec. 4.
Schaff, H. M., Coal Company, The, Cleveland, Ohio. Coal. 184,567; Dec. 4.
Schmidt, Oliver S., doing business as Vitans Laboratories, San Francisco, Calif. Preparation used as home remedies. 184,623; Dec. 4.
Schreiber Products Corporation, Buffalo, N. Y. Malt sugar for baking purposes. 185,498; Dec. 4.
Schwab, David E., & Company Inc., New York, N. Y. Net and silk lace piece goods, etc. 185,093; Dec. 4.
Schwartz, Chas., & Son, Washington, D. C. Watch movements, watchcases therefor. 168,731; Dec. 4.
Seacoast Canning Co., The, Eastport, Me. Canned tunny fish. 185,094; Dec. 4.
Security Metal Products Co., The, Cincinnati, Ohio. Screw caps, tops, and covers for bottles, jars, cans, etc. 183,762; Dec. 4.
Security Rubber and Belting Company, Chicago, Ill. Belting. 185,624; Dec. 4.
Seelig, Sam, Co., Los Angeles, Calif. Grape juice. 187,542; Dec. 4.
Seven-O-Co., The, Philadelphia, Pa. Vinegar. 184,042; Dec. 4.
Shoninger, Sol H., doing business as The Solvos Company, Chicago, Ill. Sanitary protective bloomer. 163,708; Dec. 4.
Silver Bell Chemical Co. (See Youngstown Barber Supply Co.)
Sioux Candy Company, Sioux City, Iowa. Candy. 184,687; Dec. 4.
Societe Anonyme de la Lessive Phenix, Etablissements J. Picot. (See Picot, Jules, assignor.)
Societe Anonyme des Anciens Etablissements Panhard & Levassor, Paris, France. Automobiles, automobile trucks, boats, etc. 184,305; Dec. 4.
Societe Anonyme des Anciens Etablissements Panhard & Levassor, Paris, France. Automobiles, automobile trucks, boats, etc. 184,307; Dec. 4.
Societe Anonyme des Chaussures F. Pinet, Paris, France. Leather boots and shoes. 181,706; Dec. 4.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Societe En Commandite Maurice Frings & Cie., Paris, France. Cotton thread. 182,384; Dec. 4.
Solvos Company, The. (See Shoninger, Sol H.)
South Side Cafe. (See Ryerson, Mell.)
Southern Yarn Exchange, Baltimore, Md. Art needlework. 181,151; Dec. 4.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Candles. 171,744; Dec. 4.
Stanley Works, The, New Britain, Conn. Hinges. 184,690–2; Dec. 4.
Steckler, Nathan P., doing business as Menstruol Laboratories, New York, N. Y. Medicinal capsule for the treatment of female disorders. 182,682; Dec. 4.
Stillwater Orchards Co. (See Elliot, James F.)
Stump & Walter Co., New York, N. Y. Vegetable, flower, and grass seeds, and flowering bulbs. 182,019; Dec. 4.
Swartz, Milton D., doing business as Baltimore Water Paint Company, Baltimore, Md. Paints. 186,810; Dec. 4.
Tannin Corporation, The, New York, N. Y. Tanning extracts. 184,995; Dec. 4.
Tappan Stove Co., The, Mansfield, Ohio. Gas and coal ranges and stoves. 169,880; Dec. 4.
Taylor, G. L., doing business as Bluford Specialty Co., Bluford, Ill. Dental cream, face powder, hand softener, etc. 185,192; Dec. 4.
Taylor Gland Research Laboratories, Inc., Philadelphia, Pa. Tablets for nervousness, headaches, anæmia, etc. 183,457; Dec. 4.
Texas Gulf Sulphur Company, New York, N. Y. Fusible sulphur composition for tanks, etc. 186,811; Dec. 4.
Thomas, Lillian S., doing business as Froidevaux Cie., New York, N. Y. Bath salts. 184,628; Dec. 4.
Trautman, C., & Company, Cincinnati, Ohio. Leather. 186,303; Dec. 4.
Tubular Woven Fabric Company, Pawtucket, R. I. Flexible electrical conduits and insulated electrical conductors. 186,763; Dec. 4.
Tyer Rubber Company, Andover, Mass. Balls. 181,966; Dec. 4.
Ungerer & Company, Inc., New York, N. Y. Natural and sympathetic products used for scenting purposes. 184,998; Dec. 4.
Vail Brothers, Philadelphia, Pa. Perfume, toilet water, sachet powder, etc. 185,063; Dec. 4.
Van Camp Sea Food Company, Los Angeles, Calif. Canned fish, fruits, vegetables, and olives. 185,165; Dec. 4.
Van Gesen, James H., doing business as Mello-Derma Company, Ellensburg, Wash. Lotion or like preparation for chapped hands, etc. 166,156; Dec. 4.
Van Vleet-Mansfield Drug Co., doing business as La Creole Laboratories, Memphis, Tenn. Creo-clay face pack, hair dressing and tonic, almond lotion, etc. 179,609; Dec. 4.
Vavra, Minerva, doing business as M. Vavra Drug Co., Chicago, Ill. Antiseptic solution used as a medicine. 182,629; Dec. 4.
Victorius, A. V., & Co., New York, N. Y. Hosiery. 185,944; Dec. 4.
Vitans Laboratories. (See Schmidt, Oliver S.)
Voss & Stern, New York, N. Y. Silk piece goods. 177,934; Dec. 4.
Warren Gear Products Company, Warren, Pa. Gearings for motor cars. 181,504; Dec. 4.
White, H. N., Company, The, Cleveland, Ohio. Trumpets, cornets, trombones, horns, etc. 182,691; Dec. 4.
Williams, J. B., Company, The, Glastonbury, Conn. Toilet powders, toilet waters, after-shaving lotions, etc. 182,525; Dec. 4.
Williamson, Jas., & Son. (See Ashton, James, Baron.)
Wilmington Provision Company, Wilmington, Del. Packing-house products. 158,808–9; Dec. 4.
Wizard Phonograph Company, Chicago, Ill. Phonographs. 184,630; Dec. 4.
Wonderlite Products Company, Casper, Wyo. Complexion clay. 184,484; Dec. 4.
Wood Newspaper Machinery Corporation, New York, N. Y. Stereotype casting, cooling, and finishing machines. 186,735–6; Dec. 4.
Wool, F. G., Packing Company, San Jose, Calif. Canned fruits. 185,168; Dec. 4.
X-Cel-All Co., Ltd., The, Chicago, Ill. Electric-light globes. 187,499; Dec. 4.
Youngstown Barber Supply Co., The, doing business as Silver Bell Chemical Co., Youngstown, Ohio. Hair cream. 176,811; Dec. 4.
Zemp, James D., Camden, S. C. Liquid corn remedy. 184,702; Dec. 4.
Zook, Charles A. B., doing business as F. & I. Tobacco Products Company, Lancaster, Pa. Insecticides. 184,885; Dec. 4.
Zook, Charles A. B., doing business as F. & I. Tobacco Products Company, Lancaster, Pa. Insecticides. 184,887–8; Dec. 4.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Coal. Montevallo Mining Company. 176,845; Dec. 4; Serial No. 182,355; published Sept. 18, 1923.
Coal. Templeton Coal Company. 176,917; Dec. 4.
Leather. A. F. Gallun & Sons Co. 176,890; Dec. 4.
Seeds, Corn, cane, and cotton. O. W. Cliett. 176,939; Dec. 4.

CLASS 2.

Baskets, Metal refuse. Cyclone Fence Company. 176,938; Dec. 4.

CLASS 5.

Adhesive paste. L. J. Flach. 176,908; Dec. 4.
Adhesive paste. L. J. Flach. 176,910; Dec. 4.

CLASS 6.

Disinfectant. National Renovating & Supply Co. 176,916; Dec. 4.
Medicinal preparations. D. Singh. 176,905; Dec. 4.
Medicine for diseases of the blood, etc. R. S. Verman. 176,927; Dec. 4.
Oil liniment. H. B. Nault. 176,894; Dec. 4.
Perfumes. De Cameron, Inc. 176,903; Dec. 4.
Preparation for gonorrhea and gleet. R. Guidi. 176,931; Dec. 4.
Preparation for the treatment and relief of headache, neuralgia, etc. Central Laboratories Company. 176,888; Dec. 4.
Preparation for the treatment of goiters. J. H. McGugan. 176,923; Dec. 4.
Salves, Corn. A. Legendy. 176,944; Dec. 4.
Toilet waters. G. C. Spencer. 176,925; Dec. 4.

CLASS 12.

Asphaltum. American Asphalt Association. 176,902; Dec. 4.

CLASS 13.

Fountains and plumbing supplies, Drinking and ice-cooled. Century Brass Works, Inc. 176,943; Dec. 4.
Rivets. Raybestos Company, 176,871; Dec. 4; Serial No. 182,549; published Sept. 25, 1923.
Sink bibs, cocks, faucets, bath cocks, etc. Wolverine Brass Works. 176,872; Dec. 4; Serial No. 182,783; published Sept. 25, 1923.

CLASS 14.

Spelter. Tottenville Copper Company. 176,945; Dec. 4.

CLASS 15.

Oils, Lubricating. Sears, Roebuck and Co. 176,909; Dec. 4.

CLASS 16.

Calcimines. Muralo Company. 176,896; Dec. 4.
Calcimines. Muralo Company. 176,900; Dec. 4.
Paint, Oil. Detroit Graphite Company. 176,913; Dec. 4.

CLASS 17.

Cigars. Maria Cabrelli and Baldassare Mirabile. 176,825; Dec. 4; Serial No. 182,293; published Sept. 25, 1923.
Cigars. S. Rodriguez. 176,826–7; Dec. 4; Serial Nos. 182,264–5; published Sept. 25, 1923.
Cigars. S. Rodriguez. 176,828; Dec. 4; Serial No. 182,262; published Sept. 25, 1923.

CLASS 19.

Trucks and motor omnibuses, Motor. Automobilwerke H. Büssing, Aktiengesellschaft. 176,904; Dec. 4.
Vehicle rims, automobiles, motor trucks, etc. Goodyear Tire & Rubber Company. 176,897; Dec. 4.

CLASS 21.

Flatirons, Electric. Central Flatiron Mfg. Co. 176,906; Dec. 4.
Ignition and starting apparatus for internal-combustion engines and electric-lighting systems for moving vehicles. American Bosch Magneto Corporation. 176,933; Dec. 4.
Radiocrystals. Foote Mineral Co. 176,912; Dec. 4.

CLASS 23.

Egg-beating apparatus. Whippo Manufacturing Company. 176,867; Dec. 4; Serial No. 182,028; published Sept. 25, 1923.

CLASS 24.

Pressing machines for clothes, Steam. W. Goldman. 176,889; Dec. 4.

CLASS 26.

Cameras. V. C. Ernst. 176,884; Dec. 4; Serial No. 181,480; published Sept. 25, 1923.
Eyeshades or visors. H. & A. Manufacturing Company. 176,868; Dec. 4; Serial No. 182,052; published Sept. 25, 1923.
Fluid gauges. Mid West Glass Company. 176,924; Dec. 4.
Pictures reproduced in copies, Motion. J. C. Jessen. 176,878; Dec. 4; Serial No. 181,950; published Sept. 25, 1923.

CLASS 28.

Diamonds, Imitation white. I. J. Adelson. 176,919; Dec. 4.

CLASS 32.

Springs and mattresses, Bed. J. I. Smith. 176,891; Dec. 4.

CLASS 34.

Stoves, Cooking and heating. Shelton Vapor Stove Company. 176,898; Dec. 4.

CLASS 35.

Packing and packing material. Garlock Packing Company. 176,911; Dec. 4.

CLASS 39.

Boots and shoes. Rubberhide Company. 176,854; Dec. 4; Serial No. 170,992; published Sept. 18, 1923.
Boots, shoes, slippers. A. Wallace. 176,942; Dec. 4.
Brassières. Chas. R. De Bevoise Co. 176,879; Dec. 4; Serial No. 182,983; published Sept. 11, 1923.
Brassières and corsets. J. M. Kinney. 176,833; Dec. 4; Serial No. 181,898; published Sept. 11, 1923.
Coats and pants, Men's. Tropical Clothing Manufacturing Co. 176,895; Dec. 4.
Corsets. F. P. Hoy, Inc. 176,869; Dec. 4; Serial No. 182,307; published Sept. 25, 1923.
Corsets, brassières, waists, bands. Manhattan Corset Company. 176,914; Dec. 4.
Gloves, Cotton-fabric. Lilienthal & Grossman, Inc. 176,901; Dec. 4.
Hat linings. J. H. Rubinow. 176,832; Dec. 4; Serial No. 181,699; published Sept. 11, 1923.
Hats. Dunlap & Co. 176,834; Dec. 4; Serial No. 180,657; published Sept. 11, 1923.
Hats and caps for men and boys, Felt. John B. Stetson Company. 176,893; Dec. 4.
Hats and caps, Ladies', misses', and children's. Fashion Hat Company. 176,870; Dec. 4; Serial No. 182,373; published Sept. 25, 1923.
Hats for men. M. S. Levy & Sons Inc. 176,830; Dec. 4; Serial No. 181,490; published Sept. 11, 1923.
Hats, Men's. Edw. P. Cunningham, Inc. 176,886; Dec. 4; Serial No. 181,514; published Sept. 11, 1923.
Hats, Misses' and children's. Consolidated Hat Co. 176,875; Dec. 4; Serial No. 181,674; published Sept. 11, 1923.
Hose supporters, corsets, girdles, brassières, Ladies'. Treo Company. 176,922; Dec. 4.
Hosiery. Real Silk Hosiery Mills. 176,929–30; Dec. 4.
Putties, Leather. Williams Manufacturing Company. 176,877; Dec. 4; Serial No. 181,799; published Sept. 11, 1923.
Rubber heels and arch cushions. Flexo Manufacturing Company. 176,835; Dec. 4; Serial No. 181,018; published Sept. 11, 1923.
Rubber soles and heels. Selberling Rubber Company. 176,921; Dec. 4.
Shirts for men. Shirtcraft Co. 176,920; Dec. 4.
Shoes, Leather. C. C. Blake, Incorporated. 176,887; Dec. 4; Serial No. 181,877; published Sept. 11, 1923.
Shoes, Leather. Melville Shoe Corporation. 176,829; Dec. 4; Serial No. 182,000; published Sept. 18, 1923.
Slippers. Lind Shoe and Slipper Company. 176,831; Dec. 4; Serial No. 181,642; published Sept. 18, 1923.
Suspenders and belts. American Wholesale Corporation (Baltimore Bargain House). 176,941; Dec. 4.
Underwear, Textile-fabric. American Lady Corset Co. 176,883; Dec. 4; Serial No. 151,999; published Apr. 11, 1922.

CLASS 42.

Cotton piece goods. W. Harris Thurston & Co. 176,848; Dec. 4; Serial No. 183,423; published Sept. 25, 1923.

CLASS 43.

Silk, Spool. Detmer, Bruner & Mason, Inc. 176,928; Dec. 4.
Threads. Manufacturers Supplies Company. 176,935–7; Dec. 4.

CLASS 44.

Alloy. Garhart Dental Specialty Company. 176,918; Dec. 4.
Lamps, Quartz. Hanovia Chemical & Manufacturing Co. 176,915; Dec. 4.

CLASS 45.

Beverage sold as a soft drink. J. D. Fletcher. 176,863; Dec. 4; Serial No. 140,791; published Aug. 21, 1923.

CLASS 46.

Birdseed, flavoring extract, fish food, olive oil, etc. Owl Drug Company. 176,859; Dec. 4; Serial No. 166,400; published Sept. 11, 1923.
Biscuits, crackers, cookies, and cakes. National Biscuit Company. 176,873; Dec. 4; Serial No. 181,644; published Sept. 25, 1923.
Bread. Bixler Baking Company. 176,841; Dec. 4; Serial No. 176,597; published Sept. 11, 1923.
Bread and cookies, Ginger. M. A. Banning. 176,884; Dec. 4; Serial No. 158,592; published Sept. 4, 1923.
Bread, rolls, biscuits, cakes, etc. Ward Baking Company. 176,852; Dec. 4; Serial No. 175,374; published Sept. 4, 1923.
Bread, rolls, sweet dough, etc. Thommen's Inc. 176,899; Dec. 4.
Butter. S. T. Edel's Sons. 176,866; Dec. 4; Serial No. 161,415; published Sept. 11, 1923.
Butter. Galeton Dairy Products Company. 176,843; Dec. 4; Serial No. 177,837; published Aug. 21, 1923.
Butter. T. F. Gallagher. 176,865; Dec. 4; Serial No. 159,466; published Sept. 11, 1923.
Butter. Western Ohio Creamery Co. 176,849; Dec. 4; Serial No. 174,272; published Sept. 11, 1923.
Butter and cheese. New Zealand Co-Operative Dairy Company Limited. 176,860; Dec. 4; Serial No. 168,332; published Sept. 4, 1923.
Cakes. Loose-Wiles Biscuit Company. 176,838; Dec. 4; Serial No. 179,542; published Sept. 11, 1923.
Canned fruits and vegetables, condiments, rice, etc. Holstein Harvey, Inc. 176,858; Dec. 4; Serial No. 166,369; published Sept. 11, 1923.
Canned goods, etc. Universal Wholesale Grocery Co. 176,857; Dec. 4; Serial No. 174,042; published Aug. 28, 1923.
Cookies. Mama Cookie Bakery. 176,876; Dec. 4; Serial No. 181,758; published Sept. 25, 1923.
Eggs. M. E. Fowler. 176,862; Dec. 4; Serial No. 168,963; published Sept. 11, 1923.
Eggs. John V. Kisker & Co. 176,840; Dec. 4; Serial No. 178,258; published Aug. 21, 1923.
Feed, Prepared stock. Arcady Farms Milling Company. 176,844; Dec. 4; Serial No. 178,205; published Aug. 21, 1923.
Flour, corn meal, and wheat feed, Wheat and Graham. Dixie Mills. 176,856; Dec. 4; Serial No. 173,741; published Sept. 11, 1923.
Flour, hominy feed, and grits, Wheat. Chas. Broeker & Co. 176,837; Dec. 4; Serial No. 179,179; published Sept. 11, 1923.
Flour, rolled oats, etc., Wheat. Quaker Oats Company. 176,851; Dec. 4; Serial No. 174,919; published Sept. 11, 1923.
Flour, Self-rising wheat. Model Mill Company. 176,846; Dec. 4; Serial No. 175,803; published Aug. 21, 1923.
Flour, Wheat. Astoria Flouring Mills Company. 176,847; Dec. 4; Serial No. 176,591; published Sept. 11, 1923.
Flour, Wheat. Lawrenceburg Roller Mills Co. 176,836; Dec. 4; Serial No. 178,744; published Sept. 11, 1923.
Flour, Wheat. Southwestern Milling Company. 176,880–2; Dec. 4; Serial No. 181,461–3; published Sept. 25, 1923.
Flour, Wheat. Washburn-Crosby Company. 176,883; Dec. 4; Serial No. 181,468; published Sept. 25, 1923.
Food, Hog. Dixon Cereal and Feed Company. 176,885; Dec. 4; Serial No. 171,730; published Sept. 11, 1923.
Food product. Foley Food Product Company. 176,853; Dec. 4; Serial No. 175,480; published July 31, 1923.
Fruits, canned vegetables, peanut butter, etc., Dried. Twohy-Smith Company. 176,842; Dec. 4; Serial No. 176,809; published Sept. 4, 1923.
Ice cream. J. U. Kuhns, jr. 176,892; Dec. 4.
Lard substitute. Wynne Lard & Provision Co. 176,940; Dec. 4.
Milk, Bottled. Kokomo Grocers Dairy Products Company. 176,861; Dec. 4; Serial No. 168,533; published Sept. 11, 1923.
Milk, canned vegetables, fruit, etc., Evaporated. John Hoffmann & Sons Co. 176,839; Dec. 4; Serial No. 178,249; published Aug. 21, 1923.
Mustard, honey, pickles, etc., Prepared. W. Diehnelt, Inc. 176,907. Dec. 4.
Oats, corn meal, wheat flour, rye flour, etc., Rolled. Quaker Oats Company. 176,874; Dec. 4; Serial No. 181,647; published Sept. 25, 1923.
Oats, Rolled. Quaker Oats Company. 176,850; Dec. 4; Serial No. 174,751; published Sept. 4, 1923.
Preserves and honey, Fruit. S. E. Grossfeld & Co. 176,934. Dec. 4.

CLASS 48.

Beverage, Malt. Geo. Ringler & Co., 176,932; Dec. 4.

CLASS 50.

Traps, Animal. Oneida Community, Limited. 176,926; Dec. 4.

ALPHABETICAL LIST OF LABELS.

Alucol. For A Medicinal Preparation—Namely, Antacid, Absorbent, Soothing Astringent. Wander Company. 26,651; Dec. 4.
A Mulford Product. For Cartons for Holding Bulbs. Hewett P. Mulford & Co. 26,633; Dec. 4.
Antillas Brand Rock Lobster. For Lobster. William Frank & Company. 26,608; Dec. 4.
Armistice. For Sardines. Universal Importing Company. 26,650; Dec. 4.
Army & Navy. For Liquid Glue. W. E. Kriel. 26,625; Dec. 4.
Ask For The Hirschnet. For a Special One-Piece Folded and Printed Paper Envelope in Which Hirschnet Hair Nets Exclusively are Packed. Hirsch's Hair Bazar Inc. 26,617; Dec. 4.
Black Point. For Fresh Tomatoes. A. T. Pearce. 26,637; Dec. 4.
Bollingers Malted Milk Bread. For Bread. A. J. Bollinger. 26,599; Dec. 4.
Captain Kidd. For Peas. Rochelle Canneries, Inc. 26,640; Dec. 4.
Cheez-Kloth-Pack. For Cheesecloth. High Grade Mills, Inc. 26,615; Dec. 4.
Cino Miniature Farm. For Toy Houses, Barns, Outbuildings, Trees, Shrubbery, People, Animals, Poultry, and Other Things Common to a Farm Habitation. Cino Toy Works. 26,600; Dec. 4.
Clegg's (Representation of an eye) Grow Hair. For Hair Tonic. H. B. Clegg. 26,601; Dec. 4.
Crisp-O-Lite. For Crackers. Hoyt's Consumers Cracker & Biscuit Corporation. 26,620; Dec. 4.
Desert Remedy. For Ephedra Nevadensis. Desert Remedy Company. 26,604; Dec. 4.
Dixie Rose. For Hosiery. G. D. Milligan Company. 26,632; Dec. 4.
Dora-Dee. For Silk Hosiery for Women. Hansen Hosiery House. 26,613; Dec. 4.
Eline's Pure Milk Chocolate Boats—Buy them for the children. For Chocolate. Eline's Incorporated. 26,605; Dec. 4.
Eline's Pure Milk Chocolate Boats 5¢. For Chocolate. Eline's Incorporated. 26,606; Dec. 4.
Fairy Sweets Adonis Candies. For Candies. Paul Freund Inc. 26,610; Dec. 4.
Gladice. For Writing Tablets. Kalamazoo Stationery Co. 26,622; Dec. 4.
Glasbake Guaranteed Glass Cooking Ware Juvenile Set Our "Betty Jane" Set. For Glass Cooking Dishes for Children's Use. McKee Glass Company. 26,628; Dec. 4.
Golden Grain. For Butter. Menasha Printing and Carton Company. 26,630; Dec. 4.
Heller's Ice Cream Bouquet. For Dry Powder Flavoring Compound for Use in Flavoring Ice Cream. B. Heller & Company. 26,614; Dec. 4.
Hercules. For Liquid Glue. W. E. Kriel. 26,624; Dec. 4.
Hilliard's Healing Hazel Cream. For Medicinal Preparation for the Treatment of the Skin. D. G. Hilliard. 26,616; Dec. 4.
Holly Champagne. For Extracts, Sirups, and Beverages. S. M. Hoye. 26,619; Dec. 4.
Ideal Nut Cracker. For Nutcrackers. Cook Electric Company. 26,603; Dec. 4.
Nelson Ball Bearing Timer. For Timers. Nelson Timer Company. 26,634; Dec. 4.
Jersey Jerry. For Crates Containing Fruits. Jersey Fruit Growers Co-operative Association. 26,621; Dec. 4.
Kellogg's Corn Flakes. For Cereal Breakfast Food. Kellogg Company. 26,623; Dec. 4.
Kleenz 'em. For Hand Cleanser. H. B. Garside. 26,612; Dec. 4.
Laura Double Mesh Net. For Hair Nets. C. K. Thau. 26,649; Dec. 4.
Liberty. For Macaroni. S. Nunziato. 26,636; Dec. 4.
Messina. For Canned Tunny Fish. French Sardine Co. 26,609; Dec. 4.
Milo Wheat. For Cereal Food. Los Angeles Milo Wheat Co. 26,627; Dec. 4.
Monarch. For Butter. Menasha Printing and Carton Company. 26,631; Dec. 4.
Nulusta Shoe Polish. For Tubes and Cartons Containing Shoe Polish. Nulusta Company. 26,635; Dec. 4.
1000 Funny Faces. For Toy Puzzles. M. W. Sanders. 26,641; Dec. 4.
Pepsid. For a Preparation for Indigestion. Cofield Laboratories, Inc. 26,602; Dec. 4.
Phillips Minute Rice. For Rice. S. M. Phillips. 26,639; Dec. 4.
Phillips Waffle and Pancake Flour. For Waffle and Pancake flour. S. M. Phillips. 26,638; Dec. 4.
Platenole. For a Preparation for Treating Typewriter Rollers. J. E. Fuller. 26,611; Dec. 4.
Prince Charming. For Candy. E. E. Hoffmann Candy Co. 26,618; Dec. 4.
Red Boy. For Fresh Apples. Smith & Holden. 26,644; Dec. 4.
Red Girl. For Fresh Apples. Smith & Holden. 26,643; Dec. 4.
Savoly K Y X. For Powder Finger-Nail Polish. Armand Company. 26,598; Dec. 4.
Selected Eggs. For Cartons Containing Eggs. Menasha Printing and Carton Company. 26,629; Dec. 4.
Silver and Gold, Inc. The World's Standard Clothiers—Haberdashers. For Men's Clothing. Silver & Gold, Inc. 26,642; Dec. 4.
Sunset Club. For Grape Punch and Other Flavors of Carbonated Beverages. Sunset Club Bottling Co. 26,647; Dec. 4.
Super-Bond Vellum. For Special Tracing Papers. Special Paper Mfg. Co. 26,646; Dec. 4.
Supreme Vellum. For Special Tracing Papers. Special Paper Mfg. Co. 26,645; Dec. 4.
Texas Citrus Fruit Growers Exchange. For Citrous Fruit Wrappers. Texas Citrus Fruit Growers Exchange. 26,648; Dec. 4.
The Embossing Company's Everedy Modelling Material. For Plastic Compositions or the Like for Modelling Purposes. Embossing Company. 26,607; Dec. 4.
Uncle Wiggily at the Seashore. For Metallic Containers. Fred A. Wish, Inc. 26,655; Dec. 4.
Uncle Wiggily's Outing. For Metallic Containers. Fred A. Wish, Inc. 26,654; Dec. 4.
Vita Perfecta. For a Medicinal Compound. J. O. Lemieux. 26,626; Dec. 4.
Ward's Milk-Maid Bread. For Bread. Ward Baking Company. 26,652; Dec. 4.
Ward's White Star Bread. For Bread. Ward Baking Company. 26,653; Dec. 4.
Yes. For Water-Softening and Cleaning Powder. Yarger & Syler. 26,656; Dec. 6.

ALPHABETICAL LIST OF PRINTS.

A Delicious Dish. For Ice Cream. Frederick C. Mathews Company. 7,036; Dec. 4.
A Delight to Eye and Palate. For Ice Cream. Frederick C. Mathews Company. 7,026; Dec. 4.
A Fountain Drink. For Ice Cream. Frederick C. Mathews Company. 7,033; Dec. 4.
A new dental cream that halts Acid-Erosion at The Danger Line. For Dental Cream. E. R. Squibb & Sons. 7,053; Dec. 4.
A Royal Feast. For Ice Cream. Frederick C. Mathews Company. 7,029; Dec. 4.
Autumn Glory. For Ice Cream. Frederick C. Mathews Company. 7,044; Dec. 4.
A vitally important place in every home. For Household Products. E. R. Squibb & Sons. 7,052; Dec. 4.
A Wonderful Combination. For Ice Cream. Frederick C. Mathews Company. 7,047; Dec. 4.
Are you buying your medicine Cabinet requisites "In the dark?" For Drugs. E. R. Squibb & Sons. 7,055; Dec. 4.
Canada Dry. The Champagne of Ginger Ales. For Ginger Ale. Canada Dry Ginger Ale, Inc. 7,017; Dec. 4.
Chex—Thrills you with Cleanliness. For Soap. Pioneer Products Co. 7,049; Dec. 4.
Deliciousness with Crushed Fruits. For Ice Cream. Frederick C. Mathews Company. 7,032; Dec. 4.
Dim Brite. For Dimming Switch on Automobile Steering Wheels. Weber Tool, Die and Machine Company. 7,062; Dec. 4.
Everybody's Favorite. For Ice Cream. Frederick C. Mathews Company. 7,038; Dec. 4.
Fifty Years Ago—When the village grocer, etc. For Heinz 57 Varieties. H. J. Heinz Co. 7,023; Dec. 4.
Good as Gold. For Ice Cream. Frederick C. Mathews Company. 7,041; Dec. 4.
Good! Ever Day in the Year. For Ice Cream. Frederick C. Mathews Company. 7,040; Dec. 4.
Hightone Kut II. For Fancy Cut Spectacle and Eyeglass Lenses. W. B. Georgia. 7,020; Dec. 4.

Hightone Kut III. For Fancy Cut Spectacle and Eyeglass lenses. W. B. Georgia. 7,021; Dec. 4.
His Best Effort. For Ice Cream. Frederick C. Mathews Company. 7,046; Dec. 4.
It's a Treat Indeed. For Ice Cream. Frederick C. Mathews Company. 7,035; Dec. 4.
Japanese Tea Gardens and Pickers. For Tea. Jewel Tea Co. 7,024; Dec. 4.
Just As Good As It Looks. For Ice Cream. Frederick C. Mathews Company. 7,030; Dec. 4.
Keeping your child's hair beautiful. For Mulsified Coconut-Oil Shampoo. R. L. Watkins Company. 7,057; Dec. 4.
Nurses Appreciate the Exceptional Purity of These Products. For Cold Cream. E. R. Squibb & Sons. 7,054; Dec. 4.
Satisfaction in Both. For Ice Cream. Frederick C. Mathews Company. 7,048; Dec. 4.
Sealright Paper Butter Tubs. For Sealright Paper Boxes. Sealright Co. 7,050–1; Dec. 4.
Solid Silver Precious through the Ages. For Solid Silverware. Towle Manufacturing Co. 7,056; Dec. 4.
Summer's Refreshment. For Ice Cream. Frederick C. Mathews Company. 7,042; Dec. 4.
Paris De Coty. For Perfume. Coty, Inc. 7,018; Dec. 4.
Pineapple and Cherries. For Ice Cream. Frederick C. Mathews Company. 7,031; Dec. 4.
Real Food for Everyone. For Ice Cream. Frederick C. Mathews Company. 7,034; Dec. 4.
Tempts Any Appetite. For Ice Cream. Frederick C. Mathews Company. 7,037; Dec. 4.
The charm of beautiful hair. For Mulsified Coconut-Oil Shampoo. R. L. Watkins Company. 7,060; Dec. 4.
The Favorite of Childhood. For Ice Cream. Frederick C. Mathews Company. 7,043; Dec. 4.
The Kiddies' Delight. For Ice Cream. Frederick C. Mathews Company. 7,039; Dec. 4.
The 'Listless Age.' For Wheat Breakfast Food. Cream of Wheat Co. 7,019; Dec. 4.
The Pride of June. For Ice Cream. Frederick C. Mathews Company. 7,045; Dec. 4.
The secret of having beautiful hair. For Mulsified Coconut-Oil Shampoo. R. L. Watkins Company. 7,061; Dec. 4.
Three Delicious Dishes. For Ice Cream. Frederick C. Mathews Company. 7,027; Dec. 4.
Twilyte-Ra Kut Lenzez. For Fancy Cut Spectacle Eyeglass and Colored Lenses. W. B. Georgia. 7,022; Dec. 4.
Unity. For Stoves. F. Krux. 7,025; Dec. 4.
Unquestionably The Best. For Foot Powders for Foot Baths. C. G. Boyd. 7,016; Dec. 4.
Wear Knit Underwear. For Knit Underwear. Associated Knit Underwear Manufacturers of America. 7,015; Dec. 4.
Why proper shampooing makes your hair beautiful. For Mulsified Coconut-Oil Shampoo. R. L. Watkins Company. 7,058; Dec. 4.
Why you must have beautiful well-kept hair—to be attractive. For Mulsified Coconut-Oil Shampoo. R. L. Watkins Company. 7,059; Dec. 4.
Winsomeness. For Ice Cream. Frederick C. Mathews Company. 7,028; Dec. 4.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 1.

Coal. Consolidated Co.—Coal Division, Inc. 186,105; Dec. 4.
Coal. H. M. Schaff Coal Company. 184,567; Dec. 4.
Coal, Semibituminous. Pine Ridge Coal Company. 185,310; Dec. 4.
Cottonseed. Saunders Lone Star Seed Co. 165,970; Dec. 4.
Hair, Human and animal. L. Levussove. 177,496; Dec. 4.
Leather. C. Trautman & Company. 186,303; Dec. 4.
Pelts. J. L. Alvord. 165,776; Dec. 4.
Plastic preparation. Necol Industrial Collodions, Limited. 185,375; Dec. 4.
Rubber, Bituminous material for compounding. Barrett Company. 186,456–9; Dec. 4.
Seeds and bulbs. Stumpp & Walter Co. 182,019; Dec. 4.

CLASS 2.

Cans, trash burners, ash sifters, etc., Ash, garbage, and oil. H. P. Chandlee Sons Co. 186,179; Dec. 4.
Containers, Portable. Carbide & Carbon Chemicals Corporation. 186,178; Dec. 4.
Garment bag. Arden Products Corporation. 185,911; Dec. 4.
Staves. Bobet Brothers, Inc. 179,581; Dec. 4.

CLASS 4.

Paper or cloths, Abrasive. H. H. Barton & Son Co. 170,001; Dec. 4.
Polish and dressing, Shoe. S. M. Bixby & Co. 187,083; Dec. 4.
Soap. E-Z-Way Co. 183,648; Dec. 4.
Soap. Graham Bros. Soap Company. 185,016; Dec. 4.

CLASS 6.

Antiseptic solution. M. Vavra. 182,629; Dec. 4.
Baking powder, bicarbonate of soda, carbonic powder, etc. Northwestern Bakers & Confectioners Co. 181,855; Dec. 4.
Baking powder, cream of tartar, bluing, and ammonia. Oakford & Fahnestock. 169,920; Dec. 4.
Bath or flux. V. C. Bartlett. 171,195; Dec. 4.
Brilliantine. Marinello Company. 184,979; Dec. 4.
Clay, Complexion. Wonderlite Products Company. 184,484; Dec. 4.
Clay face pack, hair dressing and tonic, almond lotion, etc., Creo. Van Vleet-Mansfield Drug Co. 179,609; Dec. 4.
Color-stripping or dye-removing compound. John Campbell & Co. 184,589–90; Dec. 4.
Corn remedy. J. D. Zemp. 184,702; Dec. 4.
Cream, Cold. Bonded Products Corporation. 184,585–6; Dec. 4.
Cream for cleansing the skin, etc. Gilbert Bros. & Co. 183,375; Dec. 4.
Cream lotion, powder, etc. Maison Gerry, Inc. 174,139; Dec. 4.
Creams. Dakin Laboratories. 184,896; Dec. 4.
Dental cream, face powder, hand softener, etc. G. L. Taylor. 185,192; Dec. 4.
Disinfectants, deodorants, cleaners, etc. Pheno-Bane Products Co. 185,720; Dec. 4.
Dyestuffs. Geigy Company. 184,721; Dec. 4.
Expectorant. Jno. B. Daniel Inc. 183,518; Dec. 4.
Germicide and worm remedy for stock. C. Hoepfner. 184,729; Dec. 4.
Hair cream. Youngstown Barber Supply Co. 176,811; Dec. 4.
Hair grower and scalp massage. J. Carrozza. 185,073; Dec. 4.
Hair growers, temple grower, and pressing oil. M. F. Glenn. 184,548; Dec. 4.
Hair-restorer compounds. J. Childers. 185,004; Dec. 4.
Insecticides. Moth K-L Co. 168,721; Dec. 4.
Insecticides. C. A. B. Zook. 184,885; Dec. 4.
Insecticides. C. A. B. Zook. 184,887–8; Dec. 4.
Lotion, Face. E. J. Jahn Company. 184,861; Dec. 4.
Lotion, Face and hand. G. F. Meyer. 182,763; Dec. 4.
Lotion or like preparation for chapped hands, etc. J. H. Van Gesen. 166,156; Dec. 4.
Lotion, Skin. D. G. Israel. 184,860; Dec. 4.
Lye products. J. Picot. 180,774; Dec. 4.
Medicinal capsule. N. P. Steckler. 182,682; Dec. 4.
Medicinal preparation. Fluenzol Proprietary, Ltd. 169,896; Dec. 4.
Medicinal preparation. Medoc Company. 177,237; Dec. 4.
Medicine for coughs, etc. G. C. O'Neil. 184,511; Dec. 4.
Medicine for the relief of pain. J. E. Hammond. 167,916; Dec. 4.
Medicines and pharmaceutical preparations. Chemosan Aktiengesellschaft. 184,233; Dec. 4.
Oils, Essential. Morana, Incorporated. 185,129–33; Dec. 4.
Ointment. A. Malcuit. 184,507; Dec. 4.
Ointment for burns, cuts, etc. Columbus Chemical Company. 165,745; Dec. 4.
Perfume, toilet water, sachet powder, etc. Vail Brothers. 185,063; Dec. 4.
Perfumes, toilet water, sachet, etc. M. V. Anderson & Company. 180,955; Dec. 4.
Powder, cold and vanishing cream, lip stick, etc., Face. P. Antle. 182,394; Dec. 4.
Powder, cold cream, rouge, and perfume, Face. Armand Company. 183,243; Dec. 4.
Powder, Conditioning. Gilbert Bros. & Co. 183,373; Dec. 4.
Powder, Face. Friedrich-Friedrich Co. 184,819; Dec. 4.
Powders, face creams, perfumes, etc., Face and talcum. P. E. Page. 184,982; Dec. 4.
Preparation for treatment of indigestion. Dr. R. Arcularius. 175,697; Dec. 4.
Preparation for use in the treatment of tuberculosis. Crenshaw & Horne. 183,820; Dec. 4.
Preparation intended to remove superfluous fat. Modern Pharmacal Co. 184,616; Dec. 4.
Preparations used for gland invigorator treatments. O. S. Schmidt. 184,623; Dec. 4.
Remedy for diseases of the stomach, blood, etc. Jenkins Drug Company. 175,198; Dec. 4.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Rouge. Armand Company. 183,244; Dec. 4.
Saline preparation for rheumatism, kidney disorders, etc. Saltrates Limited. 183,598; Dec. 4.
Salts, Bath. L. S. Thomas. 184,628; Dec. 4.
Salve. Columbus Chemical Company. 165,746; Dec. 4.
Scenting purposes, Natural and synthetic products used for. Ungerer & Company. 184,998; Dec. 4.
Shampoo preparation. J. C. Fuller. 165,281; Dec. 4.
Shampoo preparation. G. Pagonis. 183,312; Dec. 4.
Tablets for nervousness, headaches, anaemia, etc. Taylor Gland Research Laboratories. 183,457; Dec. 4.
Talcum and face powders, face creams, etc. Benz Toilet Products, Inc. 185,198; Dec. 4.
Tanning extracts. Tannin Corporation. 184,995; Dec. 4.
Tea, Medicinal. F. Forowicz. 183,370; Dec. 4.
Toilet powders, toilet waters, after-shaving lotions, etc. J. B. Williams Company. 182,525; Dec. 4.
Tooth paste. A. L. Graham. 183,448; Dec. 4.
Tooth paste. S. S. White Dental Manufacturing Company. 185,044; Dec. 4.
Waving and curling preparation for the hair. G. Pagonis. 183,313; Dec. 4.

CLASS 8.

Ash trays. B. J. Hoos. 186,475; Dec. 4.

CLASS 9.

Matches. Osakeyhtio Savo, Ltd. 187,481–3; Dec. 4.

CLASS 12.

Cement stucco mixtures. Portland-. W. H. Platner. 170,786; Dec. 4.
Furnace mortar. Keystone Refractories Company. 184,913; Dec. 4.
Insulating materials, etc., Pipe and boiler. Murdoff-Spicer Manufacturing Company. 178,057; Dec. 4.
Preparation used for concrete and metal tank lining, Liquid. Pro-Tar Manufacturing Company. 185,041; Dec. 4.
Sulphur composition for tanks, etc., Fusible. Texas Gulf Sulphur Company. 186,811; Dec. 4.

CLASS 13.

Hinges. Stanley Works. 184,690–2; Dec. 4.
Laths, Fasteners for securing and spacing metal. Bull Dog Plaster Grip Company. 180,324; Dec. 4.

CLASS 14.

Castings, Steel and iron. Los Angeles Foundry Company. 186,018; Dec. 4.
Rails, Steel. L. B. Foster Co. 184,072–3; Dec. 4.

CLASS 15.

Candles. Standard Oil Company. 171,744; Dec. 4.
Gasoline. Premier Refining Company. 176,215; Dec. 4.
Lubricant, Refined. Davies, Rose & Co. 168,455; Dec. 4.

CLASS 16.

Covering composition, White. Samuel Cabot, Inc. 187,295; Dec. 4.
Paint and varnish remover, Liquid. National Renovating & Supply Co. 185,135; Dec. 4.
Paints. M. D. Swartz. 186,810; Dec. 4.
Paints, varnishes, and paint enamels. Bennett Glass & Paint Company. 185,649; Dec. 4.
Paints, varnishes, paint oils, putty. F. Byron. 183,905; Dec. 4.
Polishes for furniture, floors, and automobiles. Chiswick Polish Co. 183,731; Dec. 4.

CLASS 17.

Cigarettes and smoking tobacco. Bonwit Teller & Co. 176,598; Dec. 4.

CLASS 19.

Automobiles, automobile trucks, boats, etc. Societe Anonyme des Anciens Etablissements Panhard & Levassor. 184,305; Dec. 4.
Automobiles, automobile trucks, boats, etc. Societe Anonyme des Anciens Etablissements Panhard & Levassor. 184,307; Dec. 4.
Cycles. Emblem Manufacturing Company. 169,159; Dec. 4.

CLASS 20.

Fabrics for floor coverings, table coverings, etc., Oil. James, Baron Ashton. 172,191; Dec. 4.
Linoleum. James, Baron Ashton. 172,192; Dec. 4.

CLASS 21.

Automobiles, etc., Electrically-operated signals for. H. Leiser. 184,975; Dec. 4.
Conduits and insulated electrical conductors, Flexible electrical. Tubular Woven Fabric Company. 186,763; Dec. 4.
Electrical condensers. Radio Condenser Co. 186,856; Dec. 4.
Electrical fuses. Economy Fuse and Manufacturing Company. 186,318; Dec. 4.
Electrical plug clusters. Benjamin Electric Manufacturing Company. 186,582; Dec. 4.
Fans, Electric. Consolidated Electric Company. 186,946; Dec. 4.
Plug sockets. Benjamin Electric Manufacturing Company. 186,865; Dec. 4.
Radio electric apparatus. Crown Radio Mfg. Corp. 184,202; Dec. 4.
Radiotelephone receiving loops, radiofrequency transformers, etc. Mu-Rad Laboratories, Inc. 185,665; Dec. 4.
Telephones, Loud-speaking. C. Brandes, Inc. 185,915; Dec. 4.
Telephonic head sets. Dictograph Products Corporation. 165,987; Dec. 4.
Variocouplers. Lanco Coupler Company. 187,109; Dec. 4.
Wireless apparatus, Electrical resistance for. Allen-Bradley Company. 186,974; Dec. 4.

CLASS 22.

Balls, Rubber. Tyer Rubber Company. 181,966; Dec. 4.
Cards, Playing. S. F. Hanzel. 183,068; Dec. 4.
Game. Mel Ren Company. 184,556; Dec. 4.
Golf balls. Cupples Company Manufacturers. 183,823; Dec. 4.
Pistols. Kilgore Mfg. Co. 186,914; Dec. 4.

CLASS 23.

Binders, reapers, mowers, hayrakes, etc. International Harvester Company. 181,280; Dec. 4.
Gearings for motor cars. Warren Gear Products Company. 181,504; Dec. 4.
Machines and apparatus for working leather, etc. Fortuna-Werke Spezialmaschinenfabrik G. m. b. H. 182,508; Dec. 4.
Mayonnaise-making machines. National Mayonnaise Machine Company. 185,835; Dec. 4.
Screw drivers. T. B. Powers. 167,895; Dec. 4.
Sprayers and parts thereof. Hudson Manufacturing Company. 186,999; Dec. 4.
Sprayers and parts thereof. Hudson Manufacturing Company. 187,001; Dec. 4.
Sprayers and parts thereof. Hudson Manufacturing Company. 187,003; Dec. 4.
Stereotype-casting, etc., machines. Wood Newspaper Machinery Corporation. 186,735–6; Dec. 4.
Tools. Lakeside Forge Company. 185,660; Dec. 4.
Tractors and road-grading machines. Gray Tractor Co. 185,120; Dec. 4.
Water-pressure systems, pumps, and engines and parts thereof. W. G. Noack. 186,246; Dec. 4.

CLASS 24.

Pressing machines, Clothes-. American Laundry Machinery Company. 185,809; Dec. 4.
Washing machines and wringers. G. F. Mitchell & Son. 183,754; Dec. 4.

CLASS 26.

Optical, drawing, and copying apparatus. Fortuna-Werke Spezialmaschinenfabrik G. m. b. H. 182,507; Dec. 4.
Photographic lenses. Ica, Aktiengesellschaft. 181,075; Dec. 4.

CLASS 27.

Watchcases and watch movements. Illinois Watch Case Company. 183,706; Dec. 4.
Watch movements, watchcases therefor. Chas. Schwartz & Son. 168,731; Dec. 4.
Watches. G. J. Keller. 175,429; Dec. 4.

CLASS 30.

Pottery ware. Duo-Art Belleek Co. 185,209; Dec. 4.

CLASS 32.

Mattresses. Enterprise Mattress Company. 181,066; Dec. 4.
Shelf, Swinging. American Writing Machine Company. 183,956; Dec. 4.

CLASS 33.

Glass. Pressed Prism Plate Glass Company. 187,346; Dec. 4.
Glass antiglare shields. Detro Sales Service Co. 174,512; Dec. 4.
Glass cooking ware for children, Sets of. McKee Glass Company. 187,261; Dec. 4.
Glass globes and reflectors for artificial light. Holophane Glass Company. 182,813–14; Dec. 4.
Glassware, Ornamental and table. Imperial Glass Company. 185,929; Dec. 4.
Globes, Electric-light. X-Cel-All Co. 187,499; Dec. 4.

CLASS 34.

Ranges and stoves, Gas and coal. Tappan Stove Co. 169,880; Dec. 4.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 35.

Belting, Security Rubber and Belting Company. 185,624; Dec. 4.
Fire hose, Linen. Wm. & Chas. Beck, Inc. 185,648; Dec. 4.
Gaskets and metallic packing. F. Goetze. 186,551; Dec. 4.
Hose, Fire and garden. Republic Rubber Company. 186,614; Dec. 4.
Hose, Flexible metal. Atlantic Metal Hose Co. 180,684; Dec. 4.
Tires, Elastic vehicle. Norwalk Tire & Rubber Company. 182,926; Dec. 4.
Tires, including outer casings and inner tubes, Vehicle. International Rubber Co. of America. 186,276; Dec. 4.
Tires, Pneumatic. Lee Tire & Rubber Co. 185,169; Dec. 4.
Tubes and rubber-tire covers, Inner. J. R. Reilly. 185,230; Dec. 4.

CLASS 36.

Musical instruments and supplies for talking machines. Lyon & Healy. 167,990; Dec. 4.
Phonographs. Wizard Phonograph Company. 184,630; Dec. 4.
Trumpets, cornets, trombones, horns, etc. H. N. White Company. 182,691; Dec. 4.

CLASS 37.

Blank forms. Mani-Fold Company. 168,773; Dec. 4.
Envelope-addressing stencils. G. Bonifacio. 150,505; Dec. 4.
Paper, Blasting. Diem & Wing Paper Co. 186,878–9; Dec. 4.
Paper, Bond. Diem & Wing Paper Co. 186,885; Dec. 4.
Paper covers. Chas. Green Company. 186,472; Dec. 4.
Paper, Wax. Hamersley Manufacturing Company. 181,445; Dec. 4.
Paper, Wrapping. Diem & Wing Paper Co. 186,875; Dec. 4.
Paper, Wrapping. Diem & Wing Paper Co. 186,877; Dec. 4.
Paper, Wrapping. Diem & Wing Paper Co. 186,883; Dec. 4.
Tickets, paper clips, tags, and thumb tacks, Pin. Noesting Pin Ticket Company. 166,199; Dec. 4.

CLASS 38.

Publication, Weekly. H. G. Regan. 185,091; Dec. 4.

CLASS 39.

Boots and shoes. C. H. Daly & Son Shoe Company. 178,432; Dec. 4.
Boots and shoes. J. P. Levy Shoe Co. 182,662; Dec. 4.
Boots and shoes, Leather. Societe Anonyme Des Chaussures F. Pinet. 181,706; Dec. 4.
Boots, shoes, and slippers. Thomas G. Plant Company. 167,097; Dec. 4.
Caps and water guards for bathing caps, Rubber bathing. Lew-Mar Products Company. 182,475; Dec. 4.
Clothes, Men's, young men's, and boys'. Chas. Douglis Mack Co. 184,069; Dec. 4.
Clothing, Men's outer. Hirsh, Wickwire Company. 165,192; Dec. 4.
Coats. T. Klipstein. 159,267; Dec. 4.
Dresses, corsets, tailored suits, etc., Misses' and girls'. Best & Co. 185,550; Dec. 4.
Garters, belts, suspenders, etc. International Standard Exporting Corporation. 148,076; Dec. 4.
Gloves, Fabric. B. F. Montague Company. 181,084; Dec. 4.
Hosiery. Climax Hosiery Mills. 185,449; Dec. 4.
Hosiery. Detroit Hosiery Company. 177,964; Dec. 4.
Hosiery. Hanes Hosiery Mills Company. 185,458; Dec. 4.
Hosiery. McCallum Hosiery Co. 186,562; Dec. 4.
Hosiery. A. V. Victorius & Co. 185,944; Dec. 4.
Hosiery, Men's. Newman & Co. 185,492; Dec. 4.
Rubber boots and shoes. La Crosse Rubber Mills Co. 171,370; Dec. 4.
Shirts and blouses, Boys'. C. P. Gordon. 185,455–6; Dec. 4.
Shirts, Outer dress. George P. Ide & Company. 166,831; Dec. 4.
Shoes. M. S. Perelstine. 167,893; Dec. 4.
Shoes, Leather. Rosenwasser Bros. 164,071; Dec. 4.
Shoes of leather, Men's. International Shoe Company. 183,298; Dec. 4.
Suits and overcoats, Men's. Famous Tailors Corporation. 165,491; Dec. 4.
Suits, Boys' and children's outer-wear. J. S. Hoffman. 182,970; Dec. 4.
Sweaters, knit coats, and bathing suits. Hatheway & Reynolds. 185,658; Dec. 4.
Underwear, Ladies' muslin. Harris & Barnett. 185,581; Dec. 4.
Underwear, Men's. Pride Underwear Co. 185,535; Dec. 4.
Underwear, union suits, shirts, notions, etc. J. Rosenzweig. 179,430; Dec. 4.

CLASS 40.

Needlework, Art. Southern Yarn Exchange. 181,151; Dec. 4.

CLASS 42.

Cloth in the piece, Diaper. Millville Manufacturing Company. 171,854; Dec. 4.
Cloths and stuffs of wool, worsted, and hair. D. Ballantyne, Brothers & Co. 185,913; Dec. 4.
Cloths, Painters' and decorators' drop. Leek Brothers. 150,969; Dec. 4.
Cotton, mohair, etc., piece goods. Beuret & Company. 183,464; Dec. 4.
Cotton piece goods. American Bleached Goods Company. 176,525; Dec. 4.
Cotton piece goods. American Bleached Goods Company. 184,198–9; Dec. 4.
Cotton piece goods. Cohn Hall Marx Co. 179,518; Dec. 4.
Cotton piece goods. Everett, Heaney & Co. 173,182; Dec. 4.
Cotton piece goods. O. H. Hinck. 180,664; Dec. 4.
Cotton piece goods. Minot, Hooper & Co. 168,896; Dec. 4.
Cotton piece goods, Bleached. B. B. & R. Knight, Inc. 183,215; Dec. 4.
Cottons in the piece, Brown. Louis Stix Co. 178,680; Dec. 4.
Hair nets. Benjamin S. Freedman Company. 185,515; Dec. 4.
Hair nets. Namco Products Corporation. 185,307; Dec. 4.
Kerchiefs and handkerchiefs. S. E. Rains. 151,521; Dec. 4.
Knitted silk fabrics. Banner Silk Knitting Mills, Inc. 185,948; Dec. 4.
Laces, handkerchiefs, and embroideries. Morisse Lace & Embroidery Co. 177,985; Dec. 4.
Net and silk lace piece goods, etc. David E. Schwab & Company. 185,093; Dec. 4.
Shades, Fabric for window. James, Baron Ashton. 172,190; Dec. 4.
Sheets, sheeting, pillowcases, etc. Peerless Cotton Mills. 182,989; Dec. 4.
Sheets, sheeting, pillowcases, etc. Peerless Cotton Mills. 182,991; Dec. 4.
Silk, cotton, etc., piece goods. Haas Brothers Fabrics Corporation. 183,924; Dec. 4.
Silk piece goods. Jefferson Silk Company. 185,710; Dec. 4.
Silk piece goods. Voss & Stern. 177,934; Dec. 4.
Textile fabrics, also silk ribbons. Oriental Silk Printing Company. 185,141; Dec. 4.
Woolen piece goods. American Interseas Corporation. 166,866; Dec. 4.

CLASS 43.

Thread, Cotton. Societe En Commandite Maurice Frings & Cie. 182,384; Dec. 4.

CLASS 44.

Lamps, Quartz. Hanovia Chemical & Manufacturing Co. 185,123; Dec. 4.
Sanitary elastic woven belts and cotton napkins. Fuller-Morrison Company. 185,218; Dec. 4.
Sanitary napkins. Lewis Manufacturing Company. 186,241; Dec. 4.
Sanitary protective bloomers. S. H. Shoninger. 163,708; Dec. 4.

CLASS 45.

Beverages and sirup used in preparation of same, Nonalcoholic. Henry-Brown Company. 187,311; Dec. 4.
Beverages sold as soft drinks, and sirup for making the same. H. Kirsch & Company. 187,319; Dec. 4.
Grape juice. Sam Seelig. Co. 187,542; Dec. 4.
Sirups for soft drinks, Fruit. S. S. Pierce Co. 181,041; Dec. 4.

CLASS 46.

Bread. Kroger Grocery & Baking Co. 153,885; Dec. 4.
Candies. I. E. Block. 162,237; Dec. 4.
Candies. D. H. Roller. 182,692; Dec. 4.
Candy. E. A. Hoffman Candy Co. 182,098; Dec. 4.
Candy. Sioux Candy Company. 184,687; Dec. 4.
Canned and dehydrated fruits and vegetables. King's Food Products Company. 165,392; Dec. 4.
Canned fish, fruits, vegetables, and olives. Van Camp Sea Food Company. 185,165; Dec. 4.
Canned fruits. F. G. Wool Packing Company. 185,168; Dec. 4.
Canned fruits and vegetables. Nielsen Packing Co. 181,848; Dec. 4.
Canned fruits and vegetables. Nielsen Packing Co. 181,852; Dec. 4.
Canned tunny fish. Seacoast Canning Co. 185,094; Dec. 4.
Cheese. Gerber & Co. 158,389; Dec. 4.
Coffee. Estate of J. M. Fey. 183,472; Dec. 4.
Coffee. Fishback Co. 166,671; Dec. 4.
Coffee. W. B. Law. 167,357; Dec. 4.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Coffee. Mecke & Co. 183,528–9; Dec. 4.
Coffee, spices, peanut butter, salad oil, etc. H. R. Linder. 182,157; Dec. 4.
Confectionery. Peek, Frean and Company. 168,937; Dec. 4.
Flour, Wheat. Pacific Commercial Company. 168,728; Dec. 4.
Food-flavoring extracts. G. K. Loving. 164,176; Dec. 4.
Food product. H. B. Hunter. 179,304; Dec. 4.
Fruits, Citrous. Rancho Sespe. 184,685; Dec. 4.
Fruits, Deciduous. Denney & Company of Oregon. 183,646; Dec. 4.
Fruits, Fresh citrous. De Land Citrus Growers Assn. 172,863; Dec. 4.
Fruits, Fresh deciduous. J. F. Elliot. 184,661; Dec. 4.
Grapes, Fresh. O. J. Le Baron. 185,661; Dec. 4.
Grapes, peaches, plums, and citrous fruits, Fresh. Federal Fruit Distributors. 182,374; Dec. 4.
Honey. Peninsular Honey Producers. 171,194; Dec. 4.
Ice-cream confection. M. Ryerson. 185,723; Dec. 4.
Meat and meat products. N. Auth Provision Company. 185,282; Dec. 4.
Milk, Raw. Kenwood Dairy Company. 176,082; Dec. 4.
Oil, Olive. Flor, Barbian y Rimathe. 180,320; Dec. 4.
Oil, Olive. M. Catalano and Company. 183,639; Dec. 4.
Packing-house products. Wilmington Provision Company. 158,808–9; Dec. 4.
Pop corn, Toasted. J. A. Pardoe Co. 173,671; Dec. 4.
Salad, canned fruits and vegetables, Fruit. California Co-Operative Canneries. 178,222; Dec. 4.
Spaghetti and spaghetti sauces. P. A. Caporale. 181,939; Dec. 4.
Spices, prepared mustard, and prepared mustard cream salad. C. A. Murdock Mfg. Co. 180,879; Dec. 4.
Sugar, Malt. Schreiber Products Corporation. 185,498; Dec. 4.
Tapioca preparations. Minute Tapioca Company. 180,546; Dec. 4.
Vinegar. Seven-O-Co. 184,042; Dec. 4.

CLASS 50.

Bottles, jars, cans, etc. Screw caps, tops, and covers for. Security Metal Products Co. 183,762; Dec. 4.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 4TH DAY OF DECEMBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A. C. Spark Plug Company. (See Berge, Joseph and L. B., assignors.)
Ackerman, Ernest W., Monroe, Mich. Shock absorber. 1,476,352; Dec. 4.
Adair, Montague, Brooklyn, N. Y. Controlling device for phonographs. 1,476,277; Dec. 4.
Adams, Floyd W., East Orange, N. J., assignor to The Barrett Company. Veneer board and making same. 1,476,570; Dec. 4.
Adalt, Frank W., St. Paul, Minn. Suspension tire. 1,475,925; Dec. 4.
Agnew, James B., sr., Mount Union, Pa. Oil can. 1,476,668; Dec. 4.
Aho, Emil, Owen, Wis. Grader. 1,476,031; Dec. 4.
Aicher, Gustav, and U. S. McMillan, assignors to McMillan Process Company, San Francisco, Calif. Apparatus for defiberizing wood. 1,476,032; Dec. 4.
Aikin, Cecil B. and F. W., Watertown, N. Y. Pulp-stone-dressing bur. 1,476,571; Dec. 4.
Aikin, Frank W. (See Aikin, Cecil B. and F. W.)
Aimone, Raimondo C., New Rochelle, N. Y., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph cabinet. Des. 63,386; Dec. 4.
Aimone, Raimondo C., New Rochelle, N. Y., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph cabinet. Des. 63,387; Dec. 4.
Allbright, Edwin F., Wollaston, assignor, by mesne assignments, to Grid Flat Slab Corporation, Boston, Mass. Concrete construction. 1,476,572; Dec. 4.
Allbright-Nell Company, The. (See Buckham, Henry B., assignor.)
Allen Engineering and Manufacturing Company, The. (See Allen, G. L., and Thompson, assignors.)
Allen, George L., and R. C. Thompson, assignors to The Allen Engineering and Manufacturing Company, Savannah, Ga. Cleaning machine. 1,476,133; Dec. 4.
Allen, Neal, Pittsburg, assignor of two-thirds to J. F. Denison, Coffeyville, Kans. Automatic tile-cutting table. 1,476,479; Dec. 4.
Allen, William A., et al. (See Allen, William A., assignor.)
Allen, William A., assignor to W. A. Allen and H. C. Stadtlander, Indianapolis, Ind.. Taper gauge. 1,476,573; Dec. 4.
Allis-Chalmers Manufacturing Company. (See Nichols, Louis C., assignor.)
All Metal Products Company. (See Schmidt, William F., assignor.)
Allyne-Zerk Company, The. (See Zerk, Oscar, assignor.)
Ambler, George B., assignor to F. A. Whitney Carriage Company, Leominster, Mass. Filling-control mechanism for looms. 1,476,480; Dec. 4.
American Gas Machine Company. (See Rasmussen, Sophus, assignor.)
American Grinder Manufacturing Co. (See Drabonovsky, John B., assignor.)
American Hardware Corporation, The. (See Hurd, Norman B., assignor.)
American Laundry Machinery Company, The. (See Prestwich, Sydney, assignor.)
American Multigraph Company, The. (See Gammeter, Harry C., assignor.)
American Radiator Company. (See Mertzanoff, André M., assignor.)
American Steel Foundries. (See Williams, William E., assignor.)
American Telephone and Telegraph Company. (See Cushing, William A., assignor.)
American Telephone and Telegraph Company. (See Hoyt, Ray S., assignor.)
American Telephone and Telegraph Company. (See Martin, De Loss K., assignor.)
American Time Lock Company. (See Young, Sanford C., assignor.)
Anderson, Swan F., Rockford, Ill. Hand tool. 1,476,033; Dec. 4.
Andersson, Patrik, New York, N. Y. Photograph-printing machine. 1,476,574; Dec. 4.
Angier, Edward H., Framingham, Mass. Packaging articles. 1,476,319; Dec. 4.
Anglemyer, William A., Indianapolis, Ind. Shock absorber. 1,476,320; Dec. 4.
Armour Fertilizier Works. (See Meyers, Herbert H., assignor.)
Armstrong, James R., Pittsburgh, and T. B. Wylie, Bellevue, Pa. Integrating and registering device for fluid meters. 1,476,576; Dec. 4.
Arendt, Morton, New York, N. Y. Dynamo-electric machine. 1,476,575; Dec. 4.
Ashworth, Allen A., and R. V. Quick, assignors of one-third to (Dr.) S. L. Ashworth, Lincoln, Nebr. Oil gauge. 1,476,321; Dec. 4.
Ashworth, S. L., (Dr.). (See Ashworth, A. A., and Quick, assignors.)
Atlas Axle Company. (See Whittingham, Richard A., assignor.)
Atlas Devices Company, Inc. (See Gippert, Ernest R., assignor.)
Atlas Imperial Engine Company. (See Warenskjold, Axel, assignor.)
Atwell, Frederick W., Lake Villa, Ill. Life-saving apparatus. 1,476,387; Dec. 4.
Automatic Electric Company. (See Lomax, Clarence E., assignor.)
Ayars, Charles H., assignor to Ayars Machine Company, Salem, N. J. Can-filling machine. 1,476,278; Dec. 4.
Ayars Machine Company. (See Ayars, Charles H., assignor.)
Aymar, John W., jr., New York, N. Y. Resilient heel. 1,476,436; Dec. 4.
Babbitt, Ralph M., Kalamazoo, Mich. Antislip device for motor-vehicle wheels. 1,476,353; Dec. 4.
Babcock & Wilcox Company. (See Witz, Henry, assignor.)
Bächli, Ernst, Lauffohr, near Brugg, Switzerland. Braiding machine. 1,475,981; Dec. 4.
Ballak, John F., St. Louis, Mo. Clutch control. 1,476,578; Dec. 4.
Ballard, Milton H., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Clutch. 1,475,926; Dec. 4.
Banks, Alfonso A., New York, N. Y. Towel rack. 1,476,034; Dec. 4.
Barber-Colman Company. (See Peterson, Burt A., assignor.)
Barber, Frank W., Chicago, Ill. Cable tightener. 1,476,026; Dec. 4.
Barényi, Árpád, Berlin-Lichterfelde, and P. Knemmerer, Charlottenburg, Germany. Electric starter for internal-combustion engines. 1,476,322; Dec. 4.
Barker, William T., Angola, Ind. Shaft-locking means. 1,476,437; Dec. 4.
Barnes, Edward, et al. (See Dickens, William, assignor.)
Barnes, Henry, Cleveland, Ohio. Toothbrush. 1,476,579; Dec. 4.
Barnes, Mamie A., et al. (See Dickens, William, assignor.)
Barrett Company, The. (See Adams, Floyd W., assignor.)
Barth, Julian. (See Pickard, G. W., and Barth.)
Barton, George. (See Taft, E. P., and Barton.)
Basford, Harold R., San Francisco, Calif. Folding bed frame. 1,476,279; Dec. 4.
Bashara, Joseph F. (See Bashara, Samuel F. and J. F.)
Bashara, Samuel F. and J. F., Houston, Tex. Drill bit. 1,476,481; Dec. 4.
Bates, George T., assignor to Illinois Watch Case Company, Elgin, Ill. Display box. Des. 63,444; Dec. 4.
Bauck, Wesley H., Camden, N. J. Towel rack. 1,476,027; Dec. 4.
Baughn, Roscoe N., and J. E. Fulmer, Conway, Ark. Wiring for ignition systems. 1,476,577; Dec. 4.
Baumann, Milton C., assignor to Dayton-Wright Company, Dayton, Ohio. Airplane construction. 1,476,438; Dec. 4.
Bauwens, Seraphine F., Chicago, Ill., assignor to Wirebounds Patents Company. Wire-joining tool. 1,476,388; Dec. 4.
Baxter, Joseph W., Eugene, Oreg. License plate. 1,476,580; Dec. 4.
Baxter, Richard C., E. F. Galloway, and H. E. Gray, assignors of one-fourth to Jones & Davis, Athens, Tenn. Automobile tire holder. 1,476,581; Dec. 4.
Beadles, John M., Los Angeles, Calif. Fountain-pen attachment. 1,476,582; Dec. 4.
Beard, Harry L., and H. A. Streaty, Lewisburg, W. Va. Chain fastener. 1,476,583; Dec. 4.
Beardsley & Piper Company, The. (See Beardsley, E. O., and Piper, assignors.)

Beardsley, Elmer O., and W. F. Piper, assignors to The Beardsley & Piper Company, Chicago, Ill. Molding machine. 1,476,124; Dec. 4.

Beardsley, Elmer O., and W. F. Piper, assignors to The Beardsley & Piper Company, Chicago, Ill. Molding machine. 1,476,125; Dec. 4.

Beaton, G., & Son, (1919) Limited. (See Wenham, George H., assignor.)

Becker, Erich, Bad Sooden, Germany. Burner for the thorough combustion of liquid fuel. 1,476,126; Dec. 4.

Beeby, Frank F., assignor to Cement-Gun Construction Company, Chicago, Ill. Protected pile and making it. 1,476,584; Dec. 4.

Beeler, Elvy W., Durango, Colo. Paper trimmer. 1,476,234; Dec. 4.

Benedict, George W., assignor to Mid-West Manufacturing Company, Minneapolis, Minn. Sizing tool. 1,476,035; Dec. 4.

Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical receptacle. 1,476,036; Dec. 4.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Railway signal lantern. 1,476,037; Dec. 4.

Berg, Werner A. P., Kobe, Japan. Generating mixed gas in twin generators. 1,476,235; Dec. 4.

Berge, Joseph, and L. B. Berge, assignors to A. C. Spark Plug Company, Flint, Mich. Electrical connecter for spark plugs. 1,476,028; Dec. 4.

Berge, Louis B. (See Berge, Joseph and L. B.)

Berger, Joseph P., Uvalde, Tex. Windmill attachment. 1,476,323; Dec. 4.

Berrenberg, Reinold, Boston, Mass. High-vacua pump. 1,476,482; Dec. 4.

Bethlehem Steel Company. (See Coffey, John J., assignor.)

Bigler, Edward A., Auburn, Ill. Automatic gate. 1,476,354; Dec. 4.

Bilan, John, Flint, Mich. Fan structure for air-cooled motors. 1,476,137; Dec. 4.

Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Transformer. 1,476,138; Dec. 4.

Bingham, John R., Tacoma, Wash. Fishing bait. 1,476,139; Dec. 4.

Birch, Chester W., Chicago, Ill. Swing hanger. 1,476,038; Dec. 4.

Bishop, Mary E., Brooklyn, N. Y., assignor to Decorative Arts League, Jersey City, N. J. Lamp. Des. 63,388; Dec. 4.

Black, Nathaniel S., Newtonville, Mass. Float valve. 1,476,029; Dec. 4.

Blackmore, Lloyd, Highland Park, assignor to General Motors Corporation, Detroit, Mich. Internal-combustion engine. 1,475,927; Dec. 4.

Blair, Robert S., et al. (See Lowry, William, assignor.)

Blair, Robert S., Sound Beach, Conn. Fender for vehicles. 1,476,039; Dec. 4.

Blake, Charles C., Brookline, assignor to C. C. Blake, Incorporated, Boston, Mass. Rounding machine. 1,476,040; Dec. 4.

Blank, Jacob, Los Angeles, Calif. Convertible camp case. 1,476,389; Dec. 4.

Blaw-Knox Company. (See Lehman, Irvin F., assignor.)

Boatsman, Carl E., et al. (See Boatsman, Deark J., assignor.)

Boatsman, Deark J., assignor of twenty-four one-hundredths to C. E. Boatsman and twenty-five one-hundredths to R. A. Burch, Elk, Wash. Vehicle brake. 1,476,439; Dec. 4.

Bolinder, Erik A., Stockholm, Sweden. Making barrels and casks. 1,476,041; Dec. 4.

Borlase, William J., Philadelphia, Pa. Bag holder. 1,476,045; Dec. 4.

Borst, Andrew J., jr., Buffalo, N. Y. Motor vehicle. 1,476,355; Dec. 4.

Bort, Katherine S., Washington, D. C. Cosmetic cream. 1,476,483; Dec. 4.

Bosworth, George P., assignor to Hemphill Company, Central Falls, R. I. Stocking and making same. 1,476,042; Dec. 4.

Bosworth, George P., assignor to Hemphill Company, Central Falls, R. I. Stocking and making same. 1,476,043; Dec. 4.

Böttcher, Paul, jr., Altona-Bahrenfeld, near Hamburg, Germany. Differential gear for motor cars. 1,476,044; Dec. 4.

Boughner, Harry R. (See Sage, R. W., and Boughner.)

Bowden, Frank A., Fresno, Calif. Combination bed, table, and article carrier for automobiles. 1,476,280; Dec. 4.

Bowden, George H., Westminster, London, England. Setting of steam boilers. 1,476,236; Dec. 4.

Bowell, George B., High Barnet, assignor of one-half to G. R. Redgrave, London, England. Means for the projection of cinematograph films. 1,476,237; Dec. 4.

Bowen, George H., Boston, Mass. Electrical plug and socket extension unit. 1,476,586; Dec. 4.

Boyd, John S., assignor to John S. Boyd Co., Inc., Williamstown, Mass. Textile fabric. Des. 63,389; Dec. 4.

Boyd, John S., assignor to John S. Boyd Co., Inc., Williamstown, Mass. Textile fabric. Des. 63,390; Dec. 4.

Boyd, John S., assignor to John S. Boyd Co., Inc., Williamstown, Mass. Textile fabric. Des. 63,391; Dec. 4.

Boyd, John S., assignor to John S. Boyd Co., Inc., Williamstown, Mass. Textile fabric. Des. 63,392; Dec. 4.

Boyd, John S., assignor to John S. Boyd Co., Inc., Williamstown, Mass. Textile fabric. Des. 63,393; Dec. 4.

Boyd, John S., assignor to John S. Boyd Co., Inc., Williamstown, Mass. textile fabric. Des. 63,394; Dec. 4.

Boyd, John S., Co. (See Boyd, John S., assignor.)

Bradley Washfountain Co. (See Schlesinger, Louis, assignor.)

Bradshaw, Grant D., Pittsburgh, Pa. Furnace. 1,476,142; Dec. 4.

Brady, Thomas J., Astoria, N. Y. Auxiliary-clutch-pedal control. 1,476,585; Dec. 4.

Bramblett, Thomas L., Fort Worth, Tex. Acetylene-gas generator. 1,476,484; Dec. 4.

Brandel, Frank J., and F. H. Richert, Buffalo, N. Y. Upholstery spring. 1,476,046; Dec. 4.

Branham, Charles T., Valley Center Township, Pawnee County, Kans. Fencemaker's tool. 1,476,587; Dec. 4.

Brewer, Robert, Dayton, Ohio. Hot-spot manifold. 1,476,281; Dec. 4.

Broderick & Bascom Rope Co. (See Knopp, Louis A., assignor.)

Bronson, Adelbert E., Cleveland, Ohio. Steering-wheel mechanism. 1,475,928; Dec. 4.

Brooks, Thomas J., Nashville, Tenn. Standing mechanism for motor vehicles. 1,476,588; Dec. 4.

Brown, Alexander C., and H. Gillett; said Brown assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Building sections. 1,476,485; Dec. 4.

Brown, Charles T. (See Brown, Winton E. and C. T.)

Brown, Davis, assignor to Hadfield Penfield Steel Company, Bucyrus, Ohio. Dry pan. 1,476,145; Dec. 4.

Brown Hoisting Machinery Company, The. (See Brown, A. C., and Gillett, assignors.)

Brown Instrument Company, The. (See Brown, R. P., and Frey, assignors.)

Brown, Richard P., and C. P. Frey, assignors to The Brown Instrument Company, Philadelphia, Pa. Optical pyrometer. 1,476,486; Dec. 4.

Brown, William F. (See Pedigo, Sanford I., assignor.)

Brown, William H., Cleveland, Ohio. Vehicle spring shackle and means for lubricating same. 1,476,440; Dec. 4.

Brown, Winton E. and C. T., Sacramento, Calif. Atomizer. 1,476,589; Dec. 4.

Buchmann, Jacob L., Erie, Pa. Lubricator for air compressors. 1,476,390; Dec. 4.

Buckham, Henry B., assignor to The Allbright-Nell Company, Chicago, Ill. Machine for washing edible animal tissues. 1,475,929; Dec. 4.

Buckminster, Ira C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Coating apparatus. 1,476,047; Dec. 4.

Bucky, Gustav, Berlin, Germany, assignor to Wappler Electric Co., Inc. Grid for protecting Röntgen images against secondary rays. 1,476,048; Dec. 4.

Budd, Edward G., Manufacturing Company. (See D'Ardenne, Walter H., assignor.)

Buffalo Foundry & Machine Co. (See Engel, Godfrey, sr., assignor.)

Buhr, Joseph F., Detroit, Mich. Attachment for drilling machines. 1,475,982; Dec. 4.

Bulask, Francis J., assignor to The Pictures Development Co., Toledo, Ohio. Motion-picture-record-tinting apparatus. 1,476,670; Dec. 4.

Bump, Sumner M., Susanville, Calif. Indicator for edging saws. 1,476,238; Dec. 4.

Burch, Richard A., et. al. (See Boatsman, Deark J., assignor.)

Burdick, Edward C. (See Veazey, W. R., and Burdick.)

Burlingham, Lucious D., Hubbard, Ohio. Sealing device. 1,476,140; Dec. 4.

Burnett, Ira A., Chicago, Ill. Adjustable sanitary fountain-cup attachment for dental cuspidors. 1,476,356; Dec. 4.

Burnett, Ira A., Chicago, Ill. Dental mandrel. 1,476,357; Dec. 4.

Burnham, George A., Saugus, assignor to S. B. Condit, Brookline, Mass. Electric switch. 1,476,141; Dec. 4.

Burns, Henry N., Middletown, Ohio. Attachment for screen doors. 1,476,487; Dec. 4.

Burns, John E., Flushing, N. Y. Dental casting flask heater and instrument sterilizer. 1,476,324; Dec. 4.

Burns, William C., Albany, Oreg. Cuboid-muscle developer. 1,476,590; Dec. 4.

Burrage, George B., et al., trustees. (See Stephenson, Leigh J., assignor.)

Bush Electric Company, The. (See Bush, Hazel B., assignor.)

Bush, Hazel B., Redlands, Calif., assignor to The Bush Electric Company, Cleveland, Ohio. Hot-wire cutter. 1,476,049; Dec. 4.

Buttress, George A., Los Angeles, Calif., assignor to Buttress Manufacturing Company. Apparatus for handling freshly-formed sections of plaster board. 1,476,050; Dec. 4.

Buttress Manufacturing Company. (See Buttress, George A., assignor.)

C. C. Blake, Incorporated. (See Blake, Charles C. assignor.)

Call, Alfred M. (See Moen, O. O., Gronvold, and Call.)

Calvert, Everett L., Denver, Colo. Combination camp table and utensil carrier. 1,476,144; Dec. 4.

Cameron, Frank B. (See Martin, W. A., and Kegel, assignors.)

Cameron, Hugh, Brooklyn, N. Y., assignor, by mesne assignments, to R. D. Kent, Passaic, N. J. Scale. 1,475,930; Dec. 4.

Campbell, Albert W., Hartford, Conn. Snow guard. 1,475,931; Dec. 4.

Campbell, Austin H., Prospect, Pa. Chimney or smoke stack ventilator. 1,476,488; Dec. 4.

Cantrell, Forrest L., Oakland, Calif., assignor to Liberty Patents Syndicate. Steering wheel. 1,476,145; Dec. 4.

Cappabianca, Antonio, Braddock, Pa. Mechanically-operated crib. 1,476,146; Dec. 4.

Cappon, Thomas W., Newark, N. J. Ink eradicator. 1,475,932; Dec. 4.

Carl, Louis J., San Francisco, Calif. Automobile top. 1,476,391; Dec. 4.

Carlson, Iddo E., Elkhart, Ind. Foot rest. 1,476,592; Dec. 4.

Carr Fastener Company. (See Carr, Fred S., assignor.)

Carr, Fred S., Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. 1,476,147; Dec. 4.

Carroll, Louis W., Riverside, Ill., assignor of one-half to G. Muffly, Cleveland, Ohio. Directifying system. 1,475,933; Dec. 4.

Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Making composite films. 1,476,392; Dec. 4.

Carver, James H., Schenectady, N. Y., assignor to General Electric Company. Calculator for gears. 1,476,489; Dec. 4.

Casey, Charles C., assignor to Work-Organizer Specialties Company, Detroit, Mich. Compartment tray. 1,475,983; Dec. 4.

Cason, Edward C. (See Lantz, J. M., and Cason.)

Cassell, Louis B., Decatur, Ill. Body for automobiles. 1,476,051; Dec. 4.

Castiglioni, Aldo, Rome, Italy. Differential gear for gouometric apparatus. 1,476,591; Dec. 4.

Cathcart, Oswald J., Newburgh, N. Y. Vanity case. 1,476,282; Dec. 4.

Cederberg, Ivar W., Lidingo-Brevik, near Stockholm, Sweden, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Manufacture of ammonia. 1,476,283; Dec. 4.

Cement-Gun Construction Company. (See Beeby, Frank F., assignor.)

Champion Shoe Machinery Company. (See Bobyne, Stephen A., assignor.)

Chaney, George W. (See Sink, W. F., and Chaney.)

Chase Companies Inc. (See Wellington, Arthur W., assignor.)

Christensen, Charles C., and R. McCalpin, Chicago, Ill. Incinerator. 1,476,490; Dec. 4.

Christie, Charles H. (See Troutmann, F. E., and Christie.)

Church, Frederick A., Venice, Calif. Car for coaster railways. 1,476,148; Dec. 4.

Citizens of the United States. (See Denny, Frank E.)

Clare, Frederick, Preston, Ontario, Canada. Heating system. 1,475,984; Dec. 4.

Clark, Farley G., Toronto, Ontario, Canada. Method of electrolysis. 1,476,284; Dec. 4.

Clark Fibre Products Corporation. (See Clark, Horace H., assignor.)

Clark, Horace H., Hartsdale, N. Y., assignor to Clark Fibre Products Corporation. Holder for disk-shaped objects. 1,476,285; Dec. 4.

Codair, Alexander, Peabody, Mass. Milk-bottle holder. 1,475,934; Dec. 4.

Coffey, John J., assignor to Bethlehem Steel Company, Bethlehem, Pa. Removing surface faults from billets. 1,476,593; Dec. 4.

Coffman, Thomas M., assignor of one-half to W. J. Rickerman, Rialto, Calif. Separating device. 1,475,985; Dec. 4.

Cohen, Isadore, Elizabeth, N. J. Projection lamp. 1,476,149; Dec. 4.

Cole, Philip G., Forest Hills, assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Valve cap. 1,476,054; Dec. 4.

Coleman, Charles W., London, England, assignor to The Taber Manufacturing Company, Philadelphia, Pa. Method and apparatus for forming sand molds. 1,475,935; Dec. 4.

Coleman, Robert H. (See Spilman, William M., assignor.)

Coles, James G., assignor of one-third to C. H. Rightnour and one-third to W. E. Scutchall, Hopewell, Pa. Threadless bolt. 1,476,491; Dec. 4.

Collyer, William W., assignor to The Hat Manufacturers Supply Company, Limited, Stockport, England. Sweatband for hats. 1,476,492; Dec. 4.

Columbus McKinnon Chain Co., The. (See Le Messurier, F. C., and Stahl, assignors.)

Comly, James I., Harrisburg, Pa. Overhead catenary suspension construction for transmitting electricity to vehicles. 1,476,052; Dec. 4.

Condit, Sears B. (See Burnham, George A., assignor.)

Congoleum Company. (See Jackson, Ralph G., assignor.)

Connecticut Telephone & Electric Company. (See Doule, Harold P., assignor.)

Connor, Eugene F. (See McDaniel, W., Davis, and Connor.)

Conover, Claude A., Newburgh, N. Y. Fire extinguisher. 1,476,594; Dec. 4.

Consolidated Car-Heating Company. (See Griffin, Guy T., assignor.)

Continental Can Company. (See Kronquest, Alfred L., assignor.)

Continental Motors Corporation. (See Fors, Arthur R., assignor.)

Converse, Francis B., assignor to The Norwalk Tire and Rubber Company, Norwalk, Conn. Method of and apparatus for making tire casings. 1,476,325; Dec. 4.

Cook, Ralph L., Mooresville, Ind. Mixer and feeder. 1,476,493; Dec. 4.

Cooke, Cosby C., Logan, W. Va. Dental thread holder. 1,475,986; Dec. 4.

Cooper, Nathan S. and S., New Haven, Conn. Stem-winding and stem-setting watch. 1,476,494; Dec. 4.

Cooper, Saul. (See Cooper, Nathan S. and S.)

Coty, Francois J. de S., Paris, France. Talcum-powder can. Des. 63,395; Dec. 4.

Couls, George R., Detroit, Mich. Truck-body-dumping mechanism. 1,475,936; Dec. 4.

Cowdrey, Charles F., Fitchburg, Mass. Automobile attachment. 1,476,393; Dec. 4.

Crabill, Pearl P., and J. Turner, Springfield, Ohio. Bumper for automobiles. 1,476,053; Dec. 4.

Crabill, Pearl P. (See Turner, J., and Crabill.)

Crate, James S., Houston Tex. Educational apparatus. 1,476,671; Dec. 4.

Creighton, Frank M., Americus, Ga., and C. J. Williams, jr., assignors to Moore Dry Kiln Company, Jacksonville, Fla. Pipe system for kilns. 1,476,595; Dec. 4.

Cress, Henry A., jr., Hillsboro, Ill. Camping vehicle. 1,476,239; Dec. 4.

Cross, Emma F., Coronado, Calif. Envelope. 1,476,495; Dec. 4.

Crossley, Percy B., Calcutta, India. Vitreous product and the manufacture thereof. Re15,727; Dec. 4.

Crowley, Michael M., Sioux City, Iowa. Locomotive superheater. 1,476,150; Dec. 4.

Cullen, James V., Chicago, Ill. Vehicle lifting device. 1,476,596; Dec. 4.

Cummings, Ralph P., South Portland, Me. Stropping machine. 1,476,151; Dec. 4.

Cummins Perforator Company. (See Swanson, Hjalmar, assignor.)

Curtiss, George E., assignor to Landers, Frary & Clark, New Britain, Conn. Jug. Des. 63,396; Dec. 4.

Cushing, William A., Newburgh Heights, Ohio, assignor to American Telephone and Telegraph Company. Single-transmission telegraph system. 1,475,987; Dec. 4.

Czyzykowski, Julian, Harrison, N. J. Inflatable swimming garment. 1,476,286; Dec. 4.

D'Ardenne, Walter H., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Punching machine. 1,476,669; Dec. 4.

Dabney, Conway, Crystal Springs, Miss. Emergency mud boot. 1,476,597; Dec. 4.

Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Electric generator. 1,476,394; Dec. 4.

Dallett, Thos. H., Co. (See Van Sickel, Wilber H., assignor.)

Dalton Adding Machine Company, The. (See Grogel, A. F. W., and Tingley, assignors.)

Dandridge, James W., and G. Hance, Garrison, W. Va. Slide-rail clamp. 1,476,598; Dec. 4.

Daniels, John T., assignor to The Hanson & Van Winkle Co., Newark, N. J. Phonograph-record matrix and method and apparatus for producing same. 1,475,937; Dec. 4.

Dath, Charles E., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Antifriction bearing. 1,476,055; Dec. 4.

Davis, Frank E. (See McDaniel, W., Davis, and Connor.)

Davis, Marcus J., St. Louis, Mo., assignor, by mesne assignments, to Snappy Sales Company, Wilmington, Del. Support for the cords of electric irons. 1,476,395; Dec. 4.

Davis, Roy P. M., Mount Union, Pa. Brickmaking machine. 1,476,496; Dec. 4.

Dayton-Wright Company. (See Baumann, Milton C., assignor.)

Dazey Manufacturing Company, The. (See Stuck, William R., assignor.)

Decorative Arts League. (See Bishop, Mary E., assignor.)

Decorative Arts League. (See Muller, John, assignor.)

Decker, B. V., et al., trustees. (See Stephenson, Leigh J., assignor.)

Deere & Company. (See Neighbour, Leonard B., assignor.)

Deere & Company. (See Strandlund, Carl G., assignor.)

Delafond, Elie, Habana, Cuba. Crystallization of sugar. 1,476,153; Dec. 4.
Delafond, Elie, Habana, Cuba. Recovery of sugar from sugar-cane mud. 1,476,152; Dec. 4.
De Laval Steam Turbine Company. (See Peterson, Arvid, assignor.)
De Lan, Eugene A., assignor to Shenango Pottery Co., New Castle, Pa. Plaque. Des. 63,397; Dec. 4.
Delco-Light Company. (See Lee, Ralph L., assignor.)
Della Torre, Pasquale. (See Torre, Pasquale Della.)
Denison, J. F. (See Allen, Neal, assignor.)
Denny, Frank E., Los Angeles, Calif., dedicated, by mesne assignments, to the citizens of the United States. Coloring citrous fruits. 1,475,938; Dec. 4.
Deutschmann, Peter P., Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Electric driving. 1,476,059; Dec. 4.
De Vilbiss, George M., Stella, Nebr. Box-car door. 1,476,326; Dec. 4.
De Witt, George, Gloversville, N. Y. Umbrella stand. 1,476,599; Dec. 4.
De Wolfe, Wilburn A., Consort, Alberta, Canada. Pressure gauge. 1,476,154; Dec. 4.
Dexter, Talbot C., Pearl River, N. Y. Paper-cutting machine. 1,476,155; Dec. 4.
Dickens, Robert, administrator. (See Dickens, William.)
Dickens, William, deceased; R. Dickens, administrator of said William Dickens, assignor of one-third to M. A. Barnes and one-third to E. Barnes. Philadelphia, Pa. Pump. 1,476,600; Dec. 4.
Dickinson, Frank T., Denver, Colo. Molding machine. 1,476,056; Dec. 4.
Dickson, Minerva B., Belvedere, Calif. Sanitary broom mop. 1,476,296; Dec. 4.
Dietz, R. E., Company. (See Van Duyn, Frederick W., assignor.)
Dieu, Victor, Mineral Wells, Tex. Pouring spout. 1,475,988; Dec. 4.
Dion, Joseph A., Fort William, Ontario, Canada. Heating system. 1,476,441; Dec. 4.
Dismond, Henry B., Danville, Ill. Inhaler. 1,476,194; Dec. 4.
Ditson, Jesse, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Apparatus for forging five-point rock-drill bits. 1,475,939; Dec. 4.
Dixon, H. L., Company. (See Meyer, Adolph H., assignor.)
Dobyne, Stephen A., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Shoe-finishing machine. 1,476,195; Dec. 4.
Dobyne, Stephen A., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Shoe-finishing machine. 1,476,196; Dec. 4.
Doehler Die Casting Company. (See Kralund, J., and Duckworth, assignors.)
Doehler, Herman H., and M. Stern, Brooklyn, N. Y.; said Stern assignor to said Doehler. Knife. 1,476,030; Dec. 4.
Dommer, Otto, Karlsruhe, Baden, Germany. Method of and apparatus for determining the heat value of gases. 1,476,601; Dec. 4.
Donle, Harold P., assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Radiofrequency device. 1,476,156; Dec. 4.
Dougher, John A., Princeton, Mo. Railway switch. 1,476,060; Dec. 4.
Dow Chemical Company. (See Veazey, W. R., and Burdick, assignors.)
Downey, Edward A., Del Ray, and D. McEwan, Alexandria, Va. Connector for ventilating racks or trays. 1,476,397; Dec. 4.
Downey, Harry C., Springfield, Ohio. Sadiron. 1,476,057; Dec. 4.
Downham, James A., Huddersfield, England. Hand starting device for internal-combustion engines. 1,476,497; Dec. 4.
Downie, Robert M. (See Wagner, G. E., and Downie.)
Drahonovsky, John B., assignor to American Grinder Manufacturing Co., Milwaukee, Wis. Demountable-rim wrench. 1,476,058; Dec. 4.
Draper, Clare H., Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Shuttle-box tension-controlling mechanism for looms. 1,476,442; Dec. 4.
Draper, Clare H., Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Shuttle-box tension-controlling mechanism for looms. 1,476,443; Dec. 4.
Dreyfus, Milton A. (See Lipsner, B. B., and Sporer, assignors.)
Drössel, Adolf F., Mannheim, assignor to the Corporation of Fritz Neumeyer Aktiengesellschaft, Nuremberg, Germany. Mold for the casting on of shafts for twist drills and similar tools. 1,476,287; Dec. 4.
Dubilier, William, New York, N. Y., and W. S. Mountford, Dumont, N. J. Razor holder. 1,475,940; Dec. 4.
Duckworth, Clarence H. (See Kralund, J., and Duckworth.)
Duesenberg, Frederick S., Elizabeth, N. J. Internal-combustion engine. 1,476,327; Dec. 4.
Duesenberg, Frederick S., Elizabeth, N. J. Axle construction. 1,476,328; Dec. 4.
Duesenberg, Frederick S., Elizabeth, N. J. Driving axle for motor vehicles. 1,476,329; Dec. 4.
Duncan, Forest M., Cotter, assignor of twenty-five and one-half per cent to F. M. Molsberry, Columbus Junction, and twenty-five and one-half per cent to F. L. Vanhorn, Cotter, Iowa. Automobile fender brace. 1,476,602; Dec. 4.
Dunston, Wayne E. (See Girl, C., and Dunston.)
Durant, William C., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Vehicle frame and spring suspension. 1,475,941; Dec. 4.
Duvall, William J., assignor to Smith & Davis Mfg. Co., St. Louis, Mo. Corner fastener for beds. 1,476,499; Dec. 4.
Duvieusart, François, Santiago, Chile. Apparatus for exchanging the heat of liquids. 1,476,061; Dec. 4.
Dwyer, Cornelius, Amsterdam, N. Y. Installing water-closet bowls. 1,476,498; Dec. 4.
Easterday, Harry E., Martinsburg, assignor of one-half to W. H. Kennedy, Bedington, W. Va. Core remover. 1,475,989; Dec. 4.
Eastman Kodak Company. (See Carroll, Stewart J., assignor.)
Eastman Kodak Company. (See Sheppard, S. E., and Eberlin, assignors.)
Eberhard Faber Pencil Company. (See Stahfest, Alfred C., assignor.)
Eberlin, Leon W. (See Sheppard, S. E., and Eberlin.)
Eccles, William, Chorlton-cum-Hardy, England, assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company. Means for supporting and 1,476,062; Dec. 4.
for connecting bodies, machines, or other apparatus.
Edison Electric Appliance Company. (See Shroyer, Jacob L., assignor.)
Edison, Thomas A., Incorporated. (See Almone, Raimondo C., assignor.)
Edwards, Albert W., et al. (See Van Nagell, John R., assignor.)
Edwards, Louis C., Ellington, Conn. Tobacco-stripping table. 1,476,240; Dec. 4.
Eggleston, Robert S., Antwerp, N. Y. Decarbonizing attachment for internal-combustion engines. 1,476,241; Dec. 4.
Ellis, Carleton, Montclair, N. J. Adding Hydrogen. 1,476,330; Dec. 4.
Ellis, Warren E., assignor of one-half to R. Traylor, Lebo, Kans. Deep-well pump. 1,476,444; Dec. 4.
Elliott, Roy D., Crockett, Calif. Sugar refining and manufacturing. 1,476,242; Dec. 4.
Emonts, Joseph, O'Fallon, Mo. Veterinary instrument. 1,476,500; Dec. 4.
Engel, Godfrey, sr., Brooklyn, assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y. Vacuum pan. 1,476,331; Dec. 4.
Englerth, Anton F., Chicago, Ill. Sanitary toothpick receptacle. 1,476,063; Dec. 4.
Enoch, Walter, Worcester, Mass. Rubber heel. 1,476,288; Dec. 4.
Erickson, Herman A., Bakersfield, Calif. Lapping machine. 1,475,990; Dec. 4.
Estate of Adelbert W. Flint. (See Flint, William A., assignor.)
Evershed & Vignoles, Limited. (See Needham, John C., assignor.)
Eynon, Thomas, Rock Island, assignor to Williams, White & Co., Moline, Ill. Bolt-hoppering machine. 1,476,064; Dec. 4.
Fahrenwald, Frank A., Cleveland Heights, Ohio. Electric resistance element. 1,475,942; Dec. 4.
Faultless Rubber Company. (See Miller, Thomas W., assignor.)
Feder, Tobias M., New York, N. Y. Liquid-level indicator. 1,476,289; Dec. 4.
Federal Steel Sash Company. (See Nesheim, Anders H., assignor.)
Fenton, William T., et al., trustees. (See Stephenson, Leigh J., assignor.)
Ferry, Thomas F., Cleveland, Ohio. Dowel fastening. 1,476,501; Dec. 4.
Finstone, Marx. (See Klein, David, assignor.)
Firestone Tire and Rubber Company, The. (See Putt, Edward D., assignor.)
Firminger, Harold S. W., London, England. Chain belt for driving purposes. 1,476,603; Dec. 4.
First National Bank in St. Louis. (See Small, Chesley T., assignor.)
Fisher, John A., assignor to Imperial Player Roll Company, Chicago, Ill. Music roll and apparatus for making same. 1,476,358; Dec. 4.
Fiske, Bradley A., New York, N. Y. Reading machine. 1,476,290; Dec. 4.
Fitz-Empire Double Pivot Last Company. (See Fitz, Guy B., assignor.)
Fitz, Guy B., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Block last. 1,475,943; Dec. 4.
Fleming, Edgar C. (See Fleming, H. D., Matthews, and Fleming.)
Fleming, Herbert D., L. F. Matthews, New Kensington, and E. C. Fleming, Renfrew, Pa. Combined tobacco container and match receptacle. 1,476,332; Dec. 4.
Fleming, Paul E., Chicago, Ill. Card-spreading device. 1,476,157; Dec. 4.
Flint, William A., assignor to estate of A. W. Flint, New Haven, Conn. Teeter board. 1,476,065; Dec. 4.

Fodor, Steve, Orient, Ill. Burglar alarm. 1,476,502; Dec. 4.
Ford, Eugene A., West Newton, Mass., assignor to R. E. D. Engine Company, Inc., New York, N. Y. Slide-valve internal-combustion engine. 1,476,359; Dec. 4.
Foreman, Louis J., Jamaica, N. Y. Shoe-polishing kit. 1,476,604; Dec. 4.
Fors, Arthur R., assignor to Continental Motors Corporation, Detroit, Mich. Machine for milling rods. 1,476,066; Dec. 4.
France, Antoine, Liege, Belgium. Mineral-washing plant. 1,476,243; Dec. 4.
Franklin, James O. (See Moore, Marquis L., assignor.)
Fraser, Ethelbert M., Yonkers, N. Y. Power transmission and control. 1,476,291; Dec. 4.
Fredericks, Charles, Brooklyn, N. Y. Fishing tackle. 1,476,067; Dec. 4.
Frey, Charles P. (See Brown, R. P., and Frey.)
Fretz-Moon Tube Company. (See Moon, John W., assignor.)
Friden, Carl M., Piedmont, Calif. Calculating machine. 1,476,197; Dec. 4.
Friden, Carl M., Piedmont, Calif. Calculating machine. 1,476,198; Dec. 4.
Fridrich, Frank T., North Bend, Nebr. Auxiliary accelerator. 1,476,398; Dec. 4.
Fridrich, Frank T., North Bend, Nebr. Auxiliary accelerator. 1,476,399; Dec. 4.
Fried. Krupp Aktiengesellschaft. (See Hort, Hermann, assignor.)
Fried. Krupp Aktiengesellschaft. (See Thun, Hermann, assignor.)
Froelich, John, assignor to L. S. Hackney, St. Paul, Minn. Vehicle steering gear. 1,476,068; Dec. 4.
Fulmer, John E. (See Baughn, R. N., and Fulmer.)
G. & J. Weir, Limited. (See Weir, William D., assignor.)
Galloway, Edward F. (See Baxter, R. C., Galloway, and Gray.)
Galusha, Albert L., Sharon, Mass. Gas-purifying apparatus. 1,476,292; Dec. 4.
Gammeter, Harry C., Cleveland Heights, assignor to The American Multigraph Company, Cleveland, Ohio. Machine for casting column rules. 1,476,503; Dec. 4.
Gandillon, Pierre, Tarbes, France. Water-closet. 1,476,244; Dec. 4.
Gantz, Amos F., Woodstown, N. J. Fuel lock for automobiles. 1,476,293; Dec. 4.
Garrison, Herman, Chicago, Ill. Can opener. 1,476,360; Dec. 4.
Gates, Isabel L., Washington, D. C. Garment support. 1,476,504; Dec. 4.
Gates, Isabel L., Washington, D. C. Garment support. 1,476,505; Dec. 4.
Gazda, Jozeph A., Chicopee, Mass. Figure wheeled toy. 1,476,199; Dec. 4.
General Electric Company. (See Carver, James H., assignor.)
General Electric Company. (See Herklotz, Max, assignor.)
General Electric Company. (See Jones, Benjamin W., assignor.)
General Electric Company. (See Pape, Wilhelm, assignor.)
General Electric Company. (See Rice, Edwin W., jr., assignor.)
General Motors Corporation. (See Blackmore, Lloyd, assignor.)
General Motors Corporation. (See Durant, William C., assignor.)
General Motors Corporation. (See Krotz, Alvaro S., assignor.)
General Motors Corporation. (See Pence, Lafe V., assignor.)
General Motors Corporation. (See Robertson, John P., assignor.)
George, Jerome R., assignor to Morgan Construction Company, Worcester, Mass. Manufacture of wire rods. 1,476,333; Dec. 4.
Gibson, John M. (See Hill, S. C., Gibson, and Wright.)
Gietzelt, Arthur A., Fresno, Calif. Resilient wheel. 1,476,200; Dec. 4.
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy vehicle. 1,476,294; Dec. 4.
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy vehicle. 1,476,295; Dec. 4.
Giles, Donald M., assignor to J. H. Giles, trading as Giles Dyeing Machinery Company, Philadelphia, Pa. Snubbing device for dye sticks. 1,476,296; Dec. 4.
Giles, Harvey, Brooklyn, assignor to A. Ward, New York, N. Y. Coin-controlled vending machine. 1,476,361; Dec. 4.
Giles, James P., Dallas, Tex. Rim tool. 1,476,245; Dec. 4.
Giles, John H. (See Giles, Donald M., assignor.)
Gillett, Harry. (See Brown, A. C., and Gillett.)
Gilmore William J., Hammond, Ind. Method of and means for making and setting green-sand cores. 1,476,069; Dec. 4.
Gilpert, Ernest R., New York, N. Y., assignor to Atlas Devices Company, Inc. Carrier for pneumatic-dispatch-tube systems. 1,476,070; Dec. 4.
Girl, Christian, and W. E. Dunston, Kalamazoo, Mich. Automobile bumper. 1,476,605; Dec. 4.
Glenk, Arthur W. (See Klaiber, Maximilian, assignor.)
Glennie, Peter, North Andover, Mass. Apparatus for drying and carbonizing textile fabrics. 1,476,362; Dec. 4.
Goldsmith, Hugo, assignor to The P. Goldsmith Sons Company, Cincinnati, Ohio. Baseball mask. 1,475,991; Dec. 4.
Goldsmith, P., Sons Company, The. (See Goldsmith, Hugo, assignor.)
Goodfellow, Herbert R. (See Parker, F. B., and Goodfellow.)
Goodrich, B. F., Company, The. (See Trumbull, Harlan L., assignor.)
Gordon Electric Mfg. Co., The. (See Seltzer, Ira R., assignor.)
Grace, Emanuel J., Erie Pa. Dispensing mechanism. 1,476,071; Dec. 4.
Gray, Charles B., Philadelphia, Pa. Machine for cutting sheet-form material. 1,476,246; Dec. 4.
Gray, Harley E. (See Baxter, R. C., Galloway, and Gray.)
Grayson, J. H., Manufacturing Company, The. (See Grayson, John H., assignor.)
Grayson, John H., assignor to The J. H. Grayson Manufacturing Company, Athens, Ohio. Gas heater. Des. 63,398; Dec. 4.
Greegor, Ralph H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Movable door post and latching means therefor. 1,476,297; Dec. 4.
Green, Max, Portland, Oreg. Trunk hose of bathing suits. 1,476,247; Dec. 4.
Green, Max, Portland, Oreg. Bathing suit. 1,476,248; Dec. 4.
Green, William A., assignor to S. J. Moore, Toronto, Ontario, Canada. Paper-dish blank. 1,476,298; Dec. 4.
Grid Flat Slab Corporation. (See Allbright, Edwin F., assignor.)
Griffin, Guy T., assignor to Consolidated Car-Heating Company, Albany, N. Y. Push-button switch. 1,476,506; Dec. 4.
Grimoin-Sanson, Raoul A., Oissel, France. Waterproofing process for textile fabrics, paper, and such materials. 1,476,226; Dec. 4.
Grogel, Alexander F. W., and B. H. Tingley, Norwood, assignors to The Dalton Adding Machine Company, Cincinnati, Ohio. Adding, calculating, and recording machine. 1,475,944; Dec. 4.
Gronvold, Finger T. (See Moen, O. O., Gronvold, and Call.)
Grosse, Eduard, Wachwitz, near Dresden, Germany. Printing machine. 1,476,072; Dec. 4.
Grubbs, Harry G., Pittsburgh, Pa. Flushing cuspidor. 1,475,945; Dec. 4.
Guggenbühl, Hermann, Ruschlikon, Switzerland. Electric bed warmer. 1,476,073; Dec. 4.
Guinter, John J., Akron, Ohio. Toy balloon. Des. 63,399; Dec. 4.
Guinzburg, George K., assignor to I. B. Kleinert Rubber Company, New York, N. Y. Garment protector. 1,476,299; Dec. 4.
Gulf Refining Company. (See McAfee, Almer M., assignor.)
Gulf Refining Company. (See Pritchard, G. L., and Henderson, assignors.)
Haas, Paul C., assignor of one-half to F. M. Kellogg, Ann Arbor, Mich. Burner igniter. 1,476,201; Dec. 4.
Hackney, Leslie S. (See Froelich, John, assignor.)
Hadfield Penfield Steel Company. (See Brown, Davis, assignor.)
Hafer, Henry, St. Louis, Mo. Signal. 1,475,946; Dec. 4.
Haffner, Grover C., Los Angeles, Calif. Psychic instrument. 1,476,158; Dec. 4.
Hails, Edward T., Montgomery, Ala. Resurfacing talking-machine records. 1,476,507; Dec. 4.
Hall, Iphus H., Toronto, Ontario, Canada. Egg separator. 1,476,249; Dec. 4.
Hall, Nathaniel C., Old Lyme, Conn. Mopstick. 1,476,400; Dec. 4.
Hall, Ralph F., Lead, S. Dak. Antiskid shoe. 1,476,606; Dec. 4.
Halliday, Alonzo L., Oil Center, Calif. Walking-beam bearing. 1,476,334; Dec. 4.
Hance, George. (See Dandridge, J. W., and Hance.)
Handy, Frederick E. (See St. Peter, Napoleon, assignor.)
Handy, Royal S., Kellogg, Idaho. Electrolytic cell. 1,476,251; Dec. 4.
Handy, Royal S., and E. Hearing, Kellogg, Idaho. Hydraulic classifier. 1,476,250; Dec. 4.
Hanson & Van Winkle Co., The. (See Daniels, John T., assignor.)
Hanson, Chris, Fort Dodge, Iowa. Sand-blast spark-plug cleaner. 1,475,992; Dec. 4.
Hanson, Hans P., Chicago, Ill. Closure for automobile radiators and the like. 1,476,074; Dec. 4.
Hanson, Wilhelm E., Lajord, Saskatchewan, Canada. Barrel hoist. 1,476,607; Dec. 4.
Harden, William H., Mantee, Miss. Combined refrigerator and cheese cutter. 1,476,608; Dec. 4.
Harris, Hu M., and V. W. Zilen, assignors to Lucey Manufacturing Corporation, Chattanooga, Tenn. Hydraulic swivel. 1,475,993; Dec. 4.
Hart, Earl H., Royal Oak, Mich. Molding. 1,476,509; Dec. 4.

Hart, Fred V., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel press. 1,475,947; Dec. 4.

Hart, Fred V., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Method of and machine for handling heels. 1,475,948; Dec. 4.

Hart, Walter, Ramsgate, England. Surgical instrument for chiropodists and the like. 1,476,508; Dec. 4.

Harwood, Aubrey H., assignor to United Cigarette Machine Co., Inc., Lynchburg, Va. Mouthpiece cigarette with crimped seam and making the same. 1,476,075; Dec. 4.

Haskell, James B., Longville, Minn. Valve-actuating mechanism. 1,476,510; Dec. 4.

Hassler, Robert H., Indianapolis, Ind. Shock absorber. 1,476,609; Dec. 4.

Hat Manufacturers Supply Company, The. (See Collyer, William W., assignor.)

Havens, Homer M., assignor to The Seagrave Company, Columbus, Ohio. Means for priming pumps. 1,475,994; Dec. 4.

Headley, Frederick H., assignor to Tan Sad Limited, Birmingham, England. Spring mounting of vehicle seats. 1,476,674; Dec. 4.

Hearing, Edward. (See Handy, R. S., and Hearing.)

Hechmer, John J., Grafton, W. Va. Method of and container for storing used safety-razor blades. 1,476,401; Dec. 4.

Heidelberg, Wolf & Company. (See Schwartz, William, assignor.)

Hein, George N. (See Platt, F. L., Hein, and Impey.)

Heis, Leonhard, and H. Jezler, Zurich, Switzerland. Chemical conversion of substances. 1,475,995; Dec. 4.

Hempel, Albert C., Bartlett, Tex. Sparking device for internal-combustion motors. 1,476,252; Dec. 4.

Hemphill Company. (See Bosworth, George P., assignor.)

Hemphill Company. (See Jones, Frank E., assignor.)

Henderson, Herbert. (See Prichard, G. L., and Henderson.)

Herbert, William C., and F. X. Smith, Brooklyn, N. Y. Safety fountain brush. 1,476,610; Dec. 4.

Herklotz, Max, Berlin, Germany, assignor to General Electric Company. Electromagnetically-actuated apparatus. 1,476,363; Dec. 4.

Hespe, Alfred T., East Orange, N. J. Grademeter. 1,476,076; Dec. 4.

Hess, Edward B., Manhattan Beach, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,476,511; Dec. 4.

Heston, George C., assignor to Roderick Lean Manufacturing Company, Mansfield, Ohio. Harrow. 1,476,512; Dec. 4.

Hewitt, Edwin P., deceased, Spokane, Wash.; N. Hewitt, administratrix. Valve structure. 1,476,253; Dec. 4.

Hewitt, Nellie, administratrix. (See Hewitt, Edwin P.)

Hick, Harry J., assignor to The Hykon Manufacturing Company, Alliance, Ohio. Shim plate for demountable rims. 1,476,011; Dec. 4.

Hicks, William W., San Francisco, and A. J. Kercher, Berkeley, Calif. Electric-water heater. 1,476,335; Dec. 4.

Hill, Elert A., assignor to Stop-Burglar Lock Company, Los Angeles, Calif. Hinged closure. 1,476,202; Dec. 4.

Hill, Samuel C., J. M. Gibson, and J. E. Wright, Wheeling, W. Va. Siphon-action water-closet. 1,476,445; Dec. 4.

Hills, Sidney C., assignor to the Turner & Seymour Manufacturing Company, Torrington, Conn. Curtain-ring. 1,476,513; Dec. 4.

Hines, Gustave H., Chicago, Ill. V-block workholder or drill jig. 1,476,611; Dec. 4.

Hirsch, Ludwick H. (See Kett, William G., assignor.)

Hitch, Frederick C., Brooklyn, and A. H. Peter, assignors to Royal Baking Powder Company, New York, N. Y. Confection. 1,476,612; Dec. 4.

Hitchings, Vernon D., Norfolk, Va. Automobile screen. 1,476,336; Dec. 4.

Hobday, Herbert L., and F. W. Nunn, Melbourne, Victoria, Australia. Apparatus for casting dental plates in metal. 1,475,996; Dec. 4.

Hodel, Adolf, Wahpeton, N. Dak. Chimney cap. 1,476,613; Dec. 4.

Hoffman, Alexander C., Wheeling, W. Va. Locking device for tools. 1,476,446; Dec. 4.

Holle, Alexander A., Paddington, London, England. Motor road vehicle. 1,476,447; Dec. 4.

Holm, Jens S., Cedar Falls, Iowa. Computer. 1,476,514; Dec. 4.

Holt, Harris R., Dormont, assignor to Rosedale Foundry & Machine Company, Pittsburgh, Pa. Furnace grate. 1,476,337; Dec. 4.

Holtz, Frederick C., assignor to Sangamo Electric Company, Springfield, Ill. Automatic switch. 1,476,013; Dec. 4.

Hood Rubber Company. (See Perrault, Joseph E., assignor.)

Hooker Electrochemical Company. (See Rowland, Jasper M., assignor.)

Hoosier Clutch Company. (See Wood, Clarence G., assignor.)

Hopedale Manufacturing Company. (See Draper, Clare H., assignor.)

Horne, Archibald B., Springfield, Mass. Device for marking golf balls. 1,476,203; Dec. 4.

Horning, Cecil L., Little Valley, N. Y. Safety razor. 1,475,949; Dec. 4.

Horsfield, Walter R., assignor to Morland & Impey Limited, Birmingham, England. Loose-leaf binder. 1,476,614; Dec. 4.

Horsfield, Walter R., assignor to Morland & Impey Limited, Birmingham, England. Loose-leaf book or binder. 1,476,615; Dec. 4.

Hort, Herman, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Apparatus for the determination of the direction of the axis of rotation of a body. 1,476,077; Dec. 4.

Howard, Bernard F., Morrisville, Vt. Grinding wheel. 1,476,515; Dec. 4.

Hoyt, Ray S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Network for neutralizing the susceptance of a loaded line. 1,475,997; Dec. 4.

Hurd, Norman B., assignor to The American Hardware Corporation, New Britain, Conn. Door lock. 1,476,364; Dec. 4.

Husting, Eugene L., Milwaukee, Wis. Bottle. Des. 63,400; Dec. 4.

Hutchinson, Ely C. (See Parker, W. L., and Hutchinson.)

Hutton, Frank L. (See Searles, William C., assignor.)

Hykon Manufacturing Company, The. (See Hick, Harry J., assignor.)

Hyman, Henry, & Company. (See Lipsky, Norman, assignor.)

Hvid, Rasmus M., Chicago, Ill. Fuel-supply valve. 1,476,012; Dec. 4.

Imperial Player Roll Company. (See Fisher, John A., assignor.)

Impey, Robert R. (See Platt, F. L., Hein, and Impey.)

Ingersoll-Rand Company. (See Ditson, Jesse, assignor.)

Illinois Watch Case Company. (See Bates, George T., assignor.)

International Motor Company. (See Manville, Keith R., assignor.)

International Process and Engineering Corporation. (See Toth, Charles J., assignor.)

Iskow, Harry E., Detroit, Mich. Safety device. 1,475,998; Dec. 4.

Ivers-Lee Company. (See Salfisberg, Leroy L., assignor.)

J. & P. Coats, Limited. (See Sutton, William H., assignor.)

Jackson, Ralph G., Chester, Pa., assignor to Congoleum Company, Incorporated, New York, N. Y. Printing and machine therefor. 1,476,516; Dec. 4.

Jacobsky, Maxim, New York, N. Y. Elevator-door lock. 1,476,254; Dec. 4.

Jacobus, Warren A., Wood River, Nebr. Direction signal. 1,476,616; Dec. 4.

Jagmin, Adolph, Cicero, Ill. Doorcheck and the like. 1,476,159; Dec. 4.

James, David A., New York, N. Y. Waistbelt. 1,476,517; Dec. 4.

James, Edwin G., Chicago, Ill. Shrinking animal casings. 1,476,204; Dec. 4.

Jampole, William M., New York, N. Y. Structural element. 1,476,078; Dec. 4.

Jaray, Paul, assignor to the Firm Luftschiffbau Zeppelin Gesellschaft, mit beschränkter Haftung, Friedrichshafen, Germany. Slide rule with logarithmical graduations. 1,475,999; Dec. 4.

Jarboe, Owen M., Carrollton, Mo. Burner. 1,476,338; Dec. 4.

Jeffers, William J., Copan, Okla. Drilling rig. 1,476,402; Dec. 4.

Jezler, Hubert. (See Heis, L., and Jezler.)

Jocher, Heinrich. (See Süss, D., and Jocher.)

Johnson Brothers, Hanley (Ltd.) (See Johnson, Ernest J., assignor.)

Johnson, Charles, Minneapolis, Minn. Board-feeding device for resaws. 1,475,950; Dec. 4.

Johnson, Charles D. (See Johnson, Charles O. and C. D.)

Johnson, Charles O. and C. D., Worcester, Mass. Apparatus for and method of hardening or tempering wire. 1,476,448; Dec. 4.

Johnson, Ernest J., assignor to Johnson Brothers, Hanley (Limited), Hanley, England. Covered dish or similar article. Des. 63,401; Dec. 4.

Johnson, Gustaf I., Malden, Mass. Lever for flash lights. Des. 63,402; Dec. 4.

Johnson, John K., assignor of one-half to W. K. Reeve, Washington, D. C. Attachment for windows. 1,476,617; Dec. 4.

Johnson, John M., Sioux Valley Township, Union County, S. Dak. Fuse cartridge. 1,476,339; Dec. 4.

Johnson, Peter A., Lyle, Minn. Signal for road crossings. 1,476,403; Dec. 4.

Johnston, Clarence L., assignor to Marchant Calculating Machine Company, Oakland, Calif. Calculating machine. 1,476,205; Dec. 4.

Jones & Davis. (See Baxter, R. C., Galloway, and Gray, assignors.)

Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic control. 1,475,951; Dec. 4.

Jones, Frank E., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Yarn-controlling mechanism for spring-needle knitting machines. 1,476,518; Dec. 4.

Jones, Howard R., assignor to Vibro-Dental Products, Philadelphia, Pa. Container. 1,476,404; Dec. 4.

Jones, Jesse G., East Ham, England. Bridge for pianofortes and like stringed musical instruments. 1,476,014; Dec. 4.

Jones, Robert W., London, Ohio. Vacuum relief and back-pressure valve. 1,476,618; Dec. 4.

Joyce, Bryan P., Davenport, Iowa. Fastening device for gun cradles. 1,476,079; Dec. 4.

Joyce, Bryan P., Davenport, Iowa. Traveling lock for gun carriages. 1,475,952; Dec. 4.

Julian, Gideon J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Coating apparatus. 1,476,015; Dec. 4.

Kaelin, Frederick T., Montreal, Quebec, Canada. Electric-boiler construction. 1,476,080; Dec. 4.

Kaemmerer, Paul. (See Barényi, A., and Kaemmerer.)

Karl, Heinrich. (See Karl, William and H.)

Karl, William and H., Jersey City, N. J. Toothbrush. 1,476,519; Dec. 4.

Kashiwabara, Tsunejiro, Mil-Gun, Fukuoka-Ken, Japan. Gas engine. 1,476,255; Dec. 4.

Kavanaugh, Charles B., Little Rock, Ark. Washing machine. 1,476,081; Dec. 4.

Kawai, Shozaburo, New York, N. Y. Game. 1,476,000; Dec. 4.

Kaye, John A., Sault Ste. Marie, Ontario, Canada. Package tie. 1,476,520; Dec. 4.

Keadwell, Charles A., New York, N. Y. Composition of matter for coating surfaces. 1,476,016; Dec. 4.

Kegel, Harry. (See Martin, W. A., and Kegel.)

Kégresse, Adolphe, Paris, France. Wheel and runner or ski assembling device. 1,476,082; Dec. 4.

Kell, Matthew M., Tulia, Tex. Cutting mechanism for harvesters. 1,476,521; Dec. 4.

Kellogg, Frank M. (See Haas, Paul C., assignor.)

Kelly, Harry, assignor of one-half to J. F. Mathias, Denver, Colo. Automobile road-map holder. 1,476,256; Dec. 4.

Kemp, Isaac M., and E. C. Wiederhold, Williamsport, Md. Sand-blast machine. 1,476,619; Dec. 4.

Kennedy, William H. (See Easterday, Harry E., assignor.)

Kent, Arthur A., Ardmore, Pa. Ignition apparatus. 1,476,522; Dec. 4.

Kent, Robert D. (See Cameron, Hugh, assignor.)

Kercher, Arthur J. (See Hicks, W. W., and Kercher.)

Kerr, Herbert D., Riccarton, Christchurch, New Zealand. Process and apparatus for feeding sulphur to burners. 1,476,523; Dec. 4.

Kett, William G., Oakland, assignor of one-half to L. H. Hirsch, San Francisco, Calif. Brush. 1,476,083; Dec. 4.

Kevlin, Mathew F., Springfield, Vt. Elevator-hatchway gate. 1,476,449; Dec. 4.

Kevorkian, Zareh H., Fairfield, Ala. By-product coke oven. 1,476,524; Dec. 4.

Keystone Driller Company. (See Wagner, G. E., and Downie, assignors.)

Klefer, Martin, Elmhurst, Ill. Belt fastener. 1,476,084; Dec. 4.

Kilmartin, Edmund D., Ada, Mich. Ensilage packer. 1,476,620; Dec. 4.

Kimball, A., Company (See Marsh, Alonzo K., assignor.)

Kimble Electric Company. (See Nies, John D., assignor.)

Kinnear Manufacturing Company, The. (See Greegor, Ralph H., assignor.)

Kintner, Alcuin E., Painesville, Ohio. Optical demonstrating apparatus. 1,476,621; Dec. 4.

Kirk, Arthur R., assignor of one-half to H. P. Moore, Cuyahoga Falls, Ohio. Cue tip. 1,476,622; Dec. 4.

Kirsch, Charles W. Sturgis, Mich. Window-shade-roller fixture. 1,476,160; Dec. 4.

Kitsee, Isidor, Philadelphia, Pa. Apparatus for ruling photographic films. 1,476,206; Dec. 4.

Kjelland, William T., Snohomish, Wash. Burglar alarm. 1,476,340; Dec. 4.

Klaiber, Maximilian, Hackensack, N. J., assignor of one-half to A. W. Glenk, New York, N. Y. Picture-projecting apparatus. 1,476,017; Dec. 4.

Klein, David, New York, assignor to M. Finstone, Brooklyn, N. Y. Lever for self-filler fountain pens. 1,475,953; Dec. 4.

Klein, David, New York, assignor to M. Finstone, Brooklyn, N. Y. Self-filling fountain pen. 1,475,954; Dec. 4.

Kleinert, I. B., Rubber Company. (See Guinzburg, George K., assignor.)

Klotz, Joseph, dit Georges. (See Pernin, T., and Klotz.)

Knopp, Louis A., assignor to Broderick & Bascom Rope Co., St. Louis, Mo. Water-cooled brake ring. 1,475,955; Dec. 4.

Kralund, John, and C. H. Duckworth, assignors to Doehler Die Casting Company, Brooklyn, N. Y. Die-casting apparatus. 1,476,257; Dec. 4.

Kramer, Wm. C., trustee. (See Young, Sanford C., assignor.)

Krautblatt, Harry, assignor of one-third to F. S. Russell and one-third to S. Sestak, Chicago, Ill. Automatic ingot feeder. 1,476,086; Dec. 4.

Kreuser, Edwin H., Kenosha, Wis. Clothesline pole. 1,476,623; Dec. 4.

Kroch, Fritz, Leipzig, Germany. Flexible tube for conducting a cooling fluid between two refrigerator vats. 1,476,258; Dec. 4.

Kronquest, Alfred L., Chicago, Ill., assignor to Continental Can Company, Inc., Syracuse, N. Y. Soldering mechanism for cans. 1,476,405; Dec. 4.

Krotz, Alvaro S., Janesville, Wis., assignor to General Motors Corporation, Detroit, Mich. Draft connection. 1,475,956; Dec. 4.

Kruskopf, Hermann, Dortmund, Germany. Method of and means for extinguishing or suffocating explosions in mines. 1,476,624; Dec. 4.

Kucharski, Stanislaus, Charlottenburg, near Berlin, Germany. Device for stopping the films in cinematograph projection apparatus. 1,476,087; Dec. 4.

Landemare, Paul, et al. (See Lowry, William, assignor.)

Landers, Frary & Clark. (See Curtiss, George E., assignor.)

Lantz, James M., and E. C. Cason, Alma, Ark. Cotton-boll-weevil destroyer. 1,476,259; Dec. 4.

Larson, Olef T., Stoughton, Wis. Milk-can ventilator. 1,476,300; Dec. 4.

Lasker, William W., Brooklyn, assignor, by mesne assignments, to Powers Accounting Machine Corporation, New York, N. Y. Sorting machine. 1,476,161; Dec. 4.

Lazzari, Alberto, New York, N. Y. Float-operated circuit closer. 1,476,525; Dec. 4.

Leach, Ernest C. (See Peterson, O. T., and Leach.)

Le Bus, Franklin L. (See Le Bus, George F. and F. L.)

Le Bus, George F. and F. L., Electra, Tex. Wrench. 1,476,341; Dec. 4.

Lee, Ralph L., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Power stand. 1,476,450; Dec. 4.

Lehman, Irvin F., Pittsburgh, Pa., assignor to Blaw-Knox Company, Blawnox, Pa. Annealing-box bottom. 1,476,526; Dec. 4.

Lehnert, John A., Howard, S. Dak. Flying machine. 1,476,162; Dec. 4.

Le Messurier, Frank C., and E. E. Stahl, Tonawanda, N. Y., assignors to The Columbus McKinnon Chain Co., Columbus, Ohio. Chain fastener. 1,476,451; Dec. 4.

Lemons, Joseph F., Cedar Hill, Tenn., assignor to W. L. Pitt, Cleveland, Ohio. Spraying device. 1,475,957; Dec. 4.

Leonard, William H., San Antonio, Tex. Auto accident identifier. 1,476,625; Dec. 4.

Lewis, Alfred B., and W. J. Taggart; said Lewis, assignor to R. J. Taggart, Philadelphia, Pa. Spigot. 1,476,527; Dec. 4.

Libbey Glass Manufacturing Company, The. (See Schrader, Ernest C., assignor.)

Liberty Patents Syndicate. (See Cantrall, Forrest L., assignor.)

Library Bureau. (See Ohnstrand, Enoch, assignor.)

Liddell, Lennox, Glasgow, Scotland. File or binder for letters, documents, or other sheets or papers. 1,476,088; Dec. 4.

Lidseen, Gustave, Chicago, Ill. Oil can. 1,476,365; Dec. 4.

Liebenstein, Max J., assignor to A. Stein & Company, Chicago, Ill. Garter fastener. 1,476,018; Dec. 4.

Lindsay, Philip K., West Somerville, Mass. Automatic control for pumps and the like. 1,476,406; Dec. 4.

Lint, Peter H., Los Gatos, Calif. Fruit-gathering machine. 1,476,207; Dec. 4.

Lipps, Morris, New York, N. Y. Bed construction. 1,476,089; Dec. 4.

Lipsky, Norman, New York, N. Y., assignor to Henry Hyman & Company, Inc. Lighting-fixture arm. Des. 63,403; Dec. 4.

Lipsky, Norman, New York, N. Y., assignor to Henry Hyman & Company, Inc. Lighting-fixture bracket. Des. 63,404; Dec. 4.

Lipsner, Benjamin B., and P. Sporer, assignors of one-third to M. A. Dreyfus, Chicago, Ill. Dishwasher nozzle. 1,476,090; Dec. 4.

Lomax, Clarence E., assignor to Automatic Electric Company, Chicago, Ill. Call-indicating system. 1,476,366; Dec. 4.

Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,405; Dec. 4.

Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,406; Dec. 4.

Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,407; Dec. 4.

Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,408; Dec. 4.

Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,409; Dec. 4.

Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,410; Dec. 4.

Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,411; Dec. 4.

Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,412; Dec. 4.

Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,413; Dec. 4.

Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,414; Dec. 4.

Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,415; Dec. 4.

Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,416; Dec. 4.

Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,417; Dec. 4.

Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,418; Dec. 4.
Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,419; Dec. 4.
Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,420; Dec. 4.
Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,421; Dec. 4.
Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,422; Dec. 4.
Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,423; Dec. 4.
Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,424; Dec. 4.
Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,425; Dec. 4.
Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,426; Dec. 4.
Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,427; Dec. 4.
Lord, Charles E., Tarrytown, N. Y. Textile fabric. Des. 63,428; Dec. 4.

Lösel, Franz, Brunn, Czechoslovakia. Means for fastening the blades of steam and gas turbines. 1,476,626; Dec. 4.

Lovering, Clarence L., Cleveland, Ohio. Swinging headlights for automobiles. 1,476,452; Dec. 4.

Lowry, William, assignor of one-third to P. Landemare, Newark, N. J., and one-third to R. S. Blair, Stamford, Conn. Cutting tool. 1,476,019; Dec. 4.

Lucey Manufacturing Corporation. (See Harris, H. M., and Zilen, assignors.)

Luden, Wm. H., Inc. (See Weber, W. S., and Yergey, assignors.)

Luebke, Charles. (See Luebke, Emil and C.)

Luebke, Emil and C., Neillsville, Wis. Hook. 1,476,627; Dec. 4.

Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Jaray, Paul, assignor.)

Lundstrom, Carl G., Cleveland, Ohio. Demountable rim. 1,476,528; Dec. 4.

Lutz, Robert C., Paola, Kans. Gopher trap. 1,476,529; Dec. 4.

Lyon, George A., Philadelphia, Pa. Vehicle buffer. 1,476,342; Dec. 4.

Lyon, George A., Philadelphia, Pa. Buffer for motor vehicles. 1,476,343; Dec. 4.

McAfee, Almer M., Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Process of and apparatus for the manufacture of lower-boiling hydrocarbons from higher-boiling hydrocarbons. 1,476,091; Dec. 4.

McCalpin, Robert. (See Christensen, C. C., and McCalpin.)

McCullough, Ervin W., Indianapolis, Ind., and R. E. Wilson, Minneapolis, Minn., assignors to P. C. Reilly, Indianapolis, Ind. Flotation of ores and materials therefor. 1,476,530; Dec. 4.

McDaniel, Walter, F. E. Davis, and E. F. Connor, Bremerton, Wash. Bench vise. 1,476,628; Dec. 4.

McDougall, Alexander, Duluth, Minn. Peat-fuel machine. 1,476,407; Dec. 4.

McEwan, David. (See Downey, E. A., and McEwan.)

McFeely, Maynard B., Philadelphia, Pa. Mill. 1,476,260; Dec. 4.

McGee, Frank R., and A. R. Schulze, Steubenville, Ohio. Valve. 1,476,344; Dec. 4.

McGee, Frank R., Steubenville, Ohio. Thrust bearing. 1,476,345; Dec. 4.

McGinty, Donald K., Marion, Ohio. Cable hanger. 1,476,093; Dec. 4.

McInnis, James E., St. Louis, Mo. Seal for box-car doors. 1,476,092; Dec. 4.

McIntosh, Arthur M., Sydney, Australia. Investment material. 1,476,001; Dec. 4.

McKay, Herbert, Monroe, Wash. Beehive. 1,476,453; Dec. 4.

McMillan Process Company. (See Aicher, G., and McMillan, assignors.)

McMillan, Uel S. (See Aicher, G., and McMillan.)

McOlvin, Edward P., Wolf Summit, W. Va. Marker. 1,476,629; Dec. 4.

McPhaill, Alva and H., Visalia, Calif. Glare screen. 1,476,002; Dec. 4.

McPhaill, Hugh. (See McPhaill, Alva and H.)

Macdonald, John W., Wilkinsburg, Pa. Apparatus for dispensing liquids. 1,476,408; Dec. 4.

Macilwaine, Alfred W., North Ferriby, England. Preservation and preparation for transportation of oil-bearing raw material. 1,476,531; Dec. 4.

Macilwaine, Alfred W., North Ferriby, England. Preservation and preparation for transportation of cotton-seed. 1,476,532; Dec. 4.

Magee, Chauncey L. C., Chicago, Ill. Friction brake mechanism. 1,476,367; Dec. 4.

Manahan, Michael J., Indianapolis, Ind. Door and window shade and curtain clamp. 1,476,164; Dec. 4.

Manning, Bowman & Company. (See Wilkinson, Louis H., assignor.)

Mansel, Paul, Berlin-Charlottenburg, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Synchronizer for secondary clocks. 1,476,261; Dec. 4.

Manville, Keith R., Brooklyn, assignor to International Motor Company, New York, N. Y. Governor cam-shaft brake. 1,476,454; Dec. 4.

Marchant Calculating Machine Company. (See Johnston, Clarence L., assignor.)

Margolius, Ralph, Richmond, Va. Method of restoring or rejuvenating bale-tie bands. 1,476,346; Dec. 4.

Marsh, Alonzo K., assignor to A. Kimball Company, New York, N. Y. Pin ticket. 1,476,533; Dec. 4.

Marsh, Harry V., and H. J. Stephens, Chicago, Ill. Placard. 1,475,958; Dec. 4.

Marshall, William F., New York, N. Y. Movable tool holder for lathes. 1,476,262; Dec. 4.

Martin, De Loss K., Orange, N. J., assignor to American Telephone and Telegraph Company. Radiosignaling call system. 1,476,003; Dec. 4.

Martin, John J., Hill City, Minn. Road-working apparatus. 1,476,263; Dec. 4.

Martin, Truman J., Bethlehem, Pa. Steering wheel for automobiles. 1,476,347; Dec. 4.

Martin, William A., and H. Kegel, assignors of one-third to said Martin, one-third to said Kegel, and one-third to F. B. Cameron, Brooklyn, N. Y. Headlight-adjusting mechanism. 1,476,630; Dec. 4.

Marye, Clifford P., Chicago, Ill., assignor to Marye Safety Nut Corporation. Threaded structure. 1,476,455; Dec. 4.

Marye Safety Nut Corporation. (See Marye, Clifford P., assignor.)

Matha, Charles E., Chicago, Ill. Bow for string instruments. 1,476,163; Dec. 4.

Mathias, John F. (See Kelly, Harry, assignor.)

Matthews, John E., Fremont, Nebr. Bearing clamp and file guide. 1,476,265; Dec. 4.

Matthews, Kinchen N., St. Louis, Mo. Piston for internal-combustion engines. 1,476,264; Dec. 4.

Matthews, Leo F. (See Fleming, H. D., Matthews, and Fleming.)

Mead, Leslie A., Hayward, Calif. Pedal-extension attachment. 1,476,094; Dec. 4.

Meader, Roy E., Leominster, Mass. Vending machine. 1,476,266; Dec. 4.

Meisner, Robert, and F. A. Roe, Traer, Iowa. Automobile headlight. 1,476,631; Dec. 4.

Mensik, Albert, Gordon, Tex. Automobile jack. 1,476,208; Dec. 4.

Mertzanoff, André M., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Heating apparatus. 1,476,165; Dec. 4.

Meutsch, Charles C., Buffalo, N. Y. Spring seat cushion. 1,476,456; Dec. 4.

Meyer, Adolph H., Pittsburgh, assignor to H. L. Dixon Company, Carnegie, Pa. Valve. 1,476,534; Dec. 4.

Meyers, Herbert H., Pittsburgh, Pa., assignor to Armour Fertilizer Works, Chicago, Ill. Double superphosphate process. 1,475,959; Dec. 4.

Mid-West Manufacturing Company. (See Benedict, George W., assignor.)

Miller, Thomas S., South Orange, N. J. Hoisting machine. 1,476,535; Dec. 4.

Miller, Thomas S., South Orange, N. J. Bucket and associated parts for cableways. 1,476,536; Dec. 4.

Miller, Thomas W., assignor to The Faultless Rubber Company, Ashland, Ohio. Shoe lacing. 1,476,348; Dec. 4.

Miller, William, New York, N. Y. Water-power wheel. 1,476,457; Dec. 4.

Millholland, James H., Philadelphia, Pa. Display packaging for rolled rugs and the like. 1,476,267; Dec. 4.

Miner, William H. (See Dath, Charles E., assignor.)

Mirgon, Frank J., San Francisco, Calif. Razor-hone holder. 1,476,268; Dec. 4.

Mirzejewski, Julius, Milwaukee, Wis. Telephone-receiver attachment. 1,476,409; Dec. 4.

Mitchell, Harry R., assignor to Mitchell Products Company, Seattle, Wash. Automobile theft preventer. 1,476,166; Dec. 4.

Mitchell, Harry R., assignor to Mitchell Products Company, Seattle, Wash. Signaling motor-temperature indicator. 1,476,167; Dec. 4.

Mitchell Products Company. (See Mitchell, Harry R., assignor.)

Moen, Ole O., F. T. Gronvold, and A. M. Call, Rugby, N. Dak. Plowshare sharpener. 1,476,209; Dec. 4.

Molsberry, Fred M., et al. (See Duncan, Forest M., assignor.)

Montgomery, John, Toronto, Ontario, Canada. Car door. 1,476,168; Dec. 4.

Moody, John T., Tilden, Ill. Flag holder. 1,475,960; Dec. 4.

Moody, Lewis F., Philadelphia, Pa. Hydraulic pump. 1,476,210; Dec. 4.

Mooers, Louis P., Cincinnati, Ohio. Power-transmitting mechanism. 1,476,675; Dec. 4.

Moon, John W., Lansdowne, assignor to Fretz-Moon Tube Company, Philadelphia, Pa. Apparatus for manufacturing tubes. 1,476,537; Dec. 4.

Moon, John W., Lansdowne, assignor to Fretz-Moon Tube Company, Butler, Pa. Manufacturing tubes. 1,476,632; Dec. 4.

Moore Dry Kiln Company. (See Creighton, F. M., and Williams, assignors.)

Moore, Howard P. (See Kirk, Arthur R., assignor.)

Moore, Marquis L., Indianapolis, Ind., assignor of one-half to J. O. Franklin, Lawrenceburg, Ky. Combined adjustable shade and curtain hanger. 1,476,349; Dec. 4.

Moore, Philip W., Hubbard Woods, assignor to The P. & M. Company, Chicago, Ill. Rail anchor. 1,476,410; Dec. 4.

Moore, Samuel J. (See Green, William A., assignor.)

Morgan Construction Company. (See George, Jerome R., assignor.)

Morgan, Francis L., Washington, Iowa. Stock-watering apparatus. 1,476,095; Dec. 4.

Morgan, Frank S., Berkeley, Calif. Sluice box. 1,476,169; Dec. 4.

Morlan, Fred H., Fairfield, Ill. Brake apparatus for motor vehicles. 1,476,170; Dec. 4.

Morland & Impey Limited. (See Horsfield, Walter R., assignor.)

Morrison, John A., Mansfield, Ohio. Lifting jack. 1,476,096; Dec. 4.

Mountford, William S. (See Dubilier, W., and Mountford.)

Muir, Herbert, Louisville, Ky. Watch-holding device. 1,476,211; Dec. 4.

Muffly, Glenn. (See Carroll, Louis W., assignor.)

Muller, John, Flushing, N. Y., assignor to Decorative Arts League, Jersey City, N. J. Smoker's stand. Des. 63,429; Dec. 4.

Murray, Howard J., New York, N. Y. Power transmission. 1,476,458; Dec. 4.

Murray, Howard S., San Francisco, Calif. Toaster. 1,476,171; Dec. 4.

Musgrave, William Z., Cincinnati, Ohio. Match box. 1,476,633; Dec. 4.

Nahm, Sunshine F., Bowling Green, Ky. Closure for containers. 1,476,411; Dec. 4.

National Electric Heating Company, The. (See Pritzker, Asher, assignor.)

Naugle, Roy L., Blackstone, Va. Shock absorber. 1,476,212; Dec. 4.

Neal, Morris S., Collinsville, Conn. Tool handle. 1,475,961; Dec. 4.

Needham, John C., assignor to Evershed & Vignoles, Limited, London, England, and himself. Electrical apparatus for controlling indicators at a distance. 1,476,538; Dec. 4.

Neighbour, Leonard B., East Moline, assignor to Deere & Company, Moline, Ill. Swivel connection for elevator conveyers. 1,476,634; Dec. 4.

Nesheim, Anders H., Milwaukee, assignor, by mesne assignments, to Federal Steel Sash Company, Waukesha, Wis. Window. 1,476,098; Dec. 4.

Neumeyer, Fritz, Aktiengesellschaft. (See Drössel, Adolf F., assignor.)

New England Wood Heel Co. (See Shaw, Wesley J., assignor.)

Newton, Walter M., Dover, Del. Attachment for wheelbarrows. 1,476,635; Dec. 4.

Nichols, Louis C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Transformer. 1,476,172; Dec. 4.

Nies, John D., St. Charles, assignor to Kimble Electric Company, Chicago, Ill. Motor construction. 1,476,412; Dec. 4.

Nishkian, Leon H., San Francisco, Calif. Door. 1,476,097; Dec. 4.

Nitsch, Charles H., and W. A. Weightman, Logan, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Philadelphia, Pa. Labeling machine. 1,476,636; Dec. 4.

Nizer Laboratories Company. (See Replogle, John R., assignor.)

Nock, Harold E., assignor to Towle Manufacturing Company, Newburyport, Mass. Spoon or analogous article. Des. 63,430; Dec. 4.

Nock, Harold E., assignor to Towle Manufacturing Company, Newburyport, Mass. Spoon or analogous article. Des. 63,431; Dec. 4.

Nock, Harold E., assignor to Towle Manufacturing Company, Newburyport, Mass. Spoon or analogous article. Des. 63,432; Dec. 4.

Nordström, Otto, Sundsvall, Sweden. Drying plant. 1,476,637; Dec. 4.

Norqual, Nels, Flora, N. Dak. Front and four wheel drive. 1,476,413; Dec. 4.

Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Cederberg, Ivar W., assignor.)

Norwalk Tire and Rubber Company, The. (See Converse, Francis B., assignor.)

Nunn, Frederick W. (See Hobday, H. L., and Nunn.)

Nya Nordiska Kullager Aktiebolaget. (See Welbull, Ernest H. W., assignor.)

O'Brien, Frank J., assignor to Southern Can Company, Baltimore, Md. Can closure. 1,476,213; Dec. 4.

O'Brien, Frank J., Baltimore, Md. Sanitary can closure. 1,476,214; Dec. 4.

Oesterreicher, Peter, Chicago, Ill. Pneumatic player action for pianos. 1,476,459; Dec. 4.

Ohnstrand, Enoch, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass. Cabinet closure. 1,476,414; Dec. 4.

Olson, Samuel, assignor to Samuel Olson & Company, Chicago, Ill. Transfer device for conveyers. 1,475,962; Dec. 4.

Olson, Samuel, & Company. (See Olson, Samuel, assignor.)

Open Coil Heater & Purifier Company. (See Stickle, Cole, assignors.)

Orr, William V., Cleveland, Ohio. Vacuum cleaning device. 1,476,004; Dec. 4.

Osborn, Alden E., New York, N. Y. Steering-wheel driving mechanism. 1,476,173; Dec. 4.

Osborn, Henry C., Cleveland, Ohio. Therapeutic cabinet. 1,476,460; Dec. 4.

Osborn, Joseph W., Lake City, Iowa. Towing device. 1,476,638; Dec. 4.

Osher, Julius C., Anaheim, assignor of one-half to O. Wingard, Los Angeles, Calif. Motor. 1,476,005; Dec. 4.

Osterlind, August F., St. Paul, Minn. Bed for cylinder presses. 1,475,963; Dec. 4.

Osterman, Gustaf E., Montreal, Quebec, Canada. Portable brake shoe. 1,476,099; Dec. 4.

Oswego Falls Corporation. (See Wright, Wilbur L., assignor.)

Ozimek, Michael, Newark, N. J. Coupling for tractors and trailers. 1,475,964; Dec. 4.

P. & M. Company. (See Moore, Philip W., assignor.)

Pace, Vincenzo, New York, N. Y. Cooking apparatus. 1,476,215; Dec. 4.

Palais, Harry, Boston, Mass. Easel. 1,476,216; Dec. 4.

Palm, Victor H., Butler, Pa. Pump. 1,476,020; Dec. 4.

Pape, Wilhelm, Charlottenburg, Germany, assignor to General Electric Company. Safety device for prime movers, especially for steam turbines. 1,476,100; Dec. 4.

Paris, James M. (See Van Nattan, V. V., and Paris.)

Parker, Frank B., and H. R. Goodfellow, Chicago, Ill. Cleaner for windshields and the like. 1,476,174; Dec. 4.

Parker, William L., Palo Alto, and E. C. Hutchinson, Oakland, assignors to Pelton Water Wheel Co., San Francisco, Calif. Hydraulic nozzle. 1,476,368; Dec. 4.

Pasenle, Orazio, West New York, N. J. Air heating and impregnating apparatus. 1,476,461; Dec. 4.

Pashia, James H., Old Mine, Mo. Vehicle brake. 1,476,415; Dec. 4.

Pedigo, Sanford L., assignor of forty-nine one-hundredths to W. F. Brown, Pittsburgh, Pa. Gas stove. 1,476,269; Dec. 4.

Pejchar, Josef, Brooklyn, N. Y. Gem setting. 1,476,462; Dec. 4.

Pelton Water Wheel Co. (See Parker, W. L., and Hutchinson, assignors.)

Pence, Lafe P., Flint, assignor to General Motors Corporation, Detroit, Mich. Valve-operating mechanism for internal-combustion engines. 1,475,965; Dec. 4.

Perkins, Philip R., Columbus, Ohio. Game. 1,476,175; Dec. 4.

Pernin, Théophile and J., dit G. Klotz, Paris, France. Haired and unhaired hide stretching, ensuppling, and trimming machine. 1,476,217; Dec. 4.

Perrault, Joseph E., assignor to Hood Rubber Company, Watertown, Mass. Binding-roller machine. 1,476,539; Dec. 4.

Person, Earl R., Leominster, Mass., assignor to Viscoloid Company. Machine for feeding and pointing hairpin blanks and the like. 1,476,416; Dec. 4.

Peter, Arnold H. (See Hitch, F. C., and Peter.)

Peterson, Arvid, assignor to De Laval Steam Turbine Company, Trenton, N. J. Water turbine. 1,475,966; Dec. 4.

Peterson, Burt A., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Means for locking yarn carriers upon their supports. 1,476,021; Dec. 4.

Peterson, Otto T., Malden, and E. C. Leach, West Peabody, assignors to Victor Shoe Machinery Company, Lynn, Mass. Presser-foot mechanism. 1,476,101; Dec. 4.

Pfrunder, Xaver, Wohlen, Switzerland. Braiding machine. 1,476,639; Dec. 4.

Phelps, James W., Chicago, Ill. Thermodynamic switch. 1,476,022; Dec. 4.

Phelps Manufacturing Company. (See Phelps, Morton F., assignor.)

Phelps, Morton F., assignor to Phelps Manufacturing Company, Little Rock, Ark. Machine for feeding and distributing containers. 1,476,023; Dec. 4.

Philippe, Louis, New York, N. Y. Perfume bottle. Des. 63,433; Dec. 4.

Philippe, Louis, New York, N. Y. Perfume bottle. Des. 63,434; Dec. 4.

Phillips, Edna G. (See Phillips, William E. and E. G., and Thomson.)

Phillips, William E. and E. G., Vallejo, and A. R. Thomson, San Francisco, Calif. Hair waver. 1,476,176; Dec. 4.

Phimister, Milton E., Green Bay, Wis. Automatic stop for motion-picture machines. 1,476,006; Dec. 4.

Pickard, Greenleaf W., Newton Center, Mass., and J. Barth, New York, N. Y., assignors to Wireless Specialty Apparatus Company, Boston, Mass. Optical selection of split mica sheets. 1,476,102; Dec. 4.

Pictures Development Co., The. (See Bulask, Francis J., assignor.)

Piper, Walter F. (See Beardsley, E. O., and Piper.)

Pitt, William L. (See Lemons, Joseph F., assignor.)

Pittsburgh Lamp, Brass & Glass Company. (See Steffen, Adolf, assignor.)

Pittsburgh Transformer Company. (See Bingay, Robert V., assignor.)

Plaisted, Harold M., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Rotary pivoted hammer. 1,476,177; Dec. 4.

Platt Brothers and Company Limited. (See Walker, John W., assignor.)
Platt, Frank L., S. N. Hein, and R. R. Impey, San Francisco, Calif. Hypodermic syringe. 1,476,103; Dec. 4.
Pomeroy, Edward S. (See Wesson, H., and Pomeroy.)
Porter, Henry K., Brookline, Mass. Cutting tool. 1,476,640; Dec. 4.
Porterfield, Leonadus C., St. Louis, Mo. Washing machine. 1,476,178; Dec. 4.
Posson, Edward, Chicago, Ill. Pedestal and wear plate for railway cars. 1,476,463; Dec. 4.
Poulsen, Eiler, New York, N. Y. Combined window shade and awning. 1,476,464; Dec. 4.
Poulsen, Herbert C. V., Walnut, Iowa. Steering mechanism. 1,476,104; Dec. 4.
Powers Accounting Machine Corporation. (See Lasker, William W., assignor.)
Premro, Anton, Eldred, Pa. Rope grip for well-drilling apparatus. 1,476,218; Dec. 4.
Press, George, Freedom, Okla. Metallic railway tie. 1,476,641; Dec. 4.
Prestwich, Sydney, Cincinnati, assignor to The American Laundry Machinery Company, Norwood, Ohio. Centrifugal extractor. 1,476,179; Dec. 4.
Prichard, George L., and H. Henderson, Port Arthur, Tex., assignors to Gulf Refining Company, Pittsburgh, Pa. Distilling with catalytic chemicals. 1,476,219; Dec. 4.
Pritzker, Asher, assignor to The National Electric Heating Company, Limited, Toronto, Canada. Supporting base for current conductors. 1,476,105; Dec. 4.
Prymek, Walter W., Iowa City, Iowa. Tool for compressing and clamping springs. 1,476,540; Dec. 4.
Putt, Edward H., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Machine for preparing fabric. 1,476,270; Dec. 4.
Pyle-National Company, The. (See Dake, Charles W., assignor.)
Quedensley, August A. (See Schroeder, C. F., and Quedensley.)
Quick, Robert V. (See Ashworth, A. A., and Quick.)
R. E. D. Engine Company, Inc. (See Ford, Eugene A., assignor.)
Rabey, Herman A., Chicago, Ill. Chain attachment. 1,476,465; Dec. 4.
Ramsay Condensing Locomotive Company Limited, The. (See Ramsay, David M., assignor.)
Ramsay, David M., assignor to The Ramsay Condensing Locomotive Company, Limited, Glasgow, Scotland. Condenser for aircraft. 1,476,541; Dec. 4.
Raschick, Charles T., St. Paul, Minn. Check cutter. 1,476,417; Dec. 4.
Rasmussen, Sophus, assignor to American Gas Machine Company, Albert Lea, Minn. Supporting device for casings. 1,476,542; Dec. 4.
Rastetter, William C., Fort Wayne, Ind. Steering wheel. 1,476,543; Dec. 4.
Rastetter, William C., Fort Wayne, Ind. Steering-wheel construction. 1,476,544; Dec. 4.
Rastetter, William C., Fort Wayne, Ind. Steering-wheel construction. 1,476,673; Dec. 4.
Reagan, George M., Alton, assignor of one-half to J. I. Wohl, Chicago, Ill. Merry-go-round. 1,476,180; Dec. 4.
Reardon, Robert E., Wrightsville, Pa. Educative dummy firearm. 1,476,181; Dec. 4.
Reaugh, Frank, Oakcliff, Tex. Lap easel. 1,476,545; Dec. 4.
Redgrave, Gilbert R. (See Bowell, George B., assignor.)
Reeve, William K. (See Johnson, John K., assignor.)
Reilly, Peter C. (See McCullough, E. W., and Wilson, assignors.)
Reiter, Daniel I., New York, N. Y. Key holder. 1,476,642; Dec. 4.
Renner, William B., Ridgewood, N. Y. Self-locking frame. 1,476,643; Dec. 4.
Replogle, John R., assignor to Nizer Laboratories Company, Detroit, Mich. Refrigerating food cabinet. 1,476,546; Dec. 4.
Rex, Edson B., Bucyrus, Ohio. Scaffolding bracket. 1,476,644; Dec. 4.
Reynolds, Bert, Hamilton, Ohio. Method of and means for agitating water in ice-making apparatus. 1,476,220; Dec. 4.
Reynolds, Leo F., and J. S. Stewart, Evanston, Wyo. Spark plug. 1,476,350; Dec. 4.
Rice, Edwin W., jr., Schenectady, N. Y., assignor to General Electric Company. Control system for aeroplane superchargers. 1,476,418; Dec. 4.
Richards, Gwynne, New York, N. Y. Food product and making the same. 1,476,182; Dec. 4.
Richert, Frank H. (See Brandel, F. J., and Richert.)
Rickerman, W. J. (See Coffman, Thomas M., assignor.)
Rightnour, Charles H., et al. (See Coles, James G., assignor.)
Robbins, James B., Crowley La. Sealing device for wrappers. 1,476,419; Dec. 4.
Robertson, John P., assignor to General Motors Corporation, Detroit, Mich. Hinge structure for automobile hoods. 1,475,967; Dec. 4.
Robinson, Charles S., Somerset West, Cape of Good Hope, South Africa. Recovery and refining of sulphur. 1,476,645; Dec. 4.
Roby, Frank M., Cleveland, Ohio. Lubricator. 1,476,466; Dec. 4.
Rochlitz, Ludwig J., Stuttgart, Germany. Operation of cupola furnaces. 1,476,108; Dec. 4.
Rockford Tool Company. (See Sundstrand, Gustaf D., assignor.)
Roderick Lean Manufacturing Company. (See Heston, George C., assignor.)
Roe, Ferrin A. (See Meisner, R., and Roe.)
Romig, Robert H., Anchorage, Alaska. Paper-fastening device. 1,476,420; Dec. 4.
Roper, Geo. D., Corporation. (See Zander, John, assignor.)
Rose, Theodore F., jr., Collingswood, N. J. Sound-cut-off device. 1,476,301; Dec. 4.
Rosedale Foundry & Machine Company. (See Holt, Harris B., assignor.)
Ross, Charles A., San Pedro, Calif. Internal-combustion engine. 1,476,547; Dec. 4.
Ross, James A., Halifax, Nova Scotia, Canada. Curling game. 1,476,369; Dec. 4.
Roučka, Erich, Blansko, Czechoslovakia. Device for transmitting positions of indicating organs. 1,476,183; Dec. 4.
Roush, Emerson E., Goodland, Kans. Combination lock and key. 1,476,370; Dec. 4.
Rowland, Jasper M., Niagara Falls, assignor to Hooker Electrochemical Company, New York, N. Y. Transportable muriatic-acid tank. 1,476,421; Dec. 4.
Roy, Harold A., Portland, Oreg. Sash lock. 1,476,646; Dec. 4.
Roy, Levi J., Providence, R. I. Clasp. Des. 63,435; Dec. 4.
Royal Baking Powder Company. (See Hitch, F. C., and Peter, assignors.)
Royal Typewriter Company. (See Hess, Edward B., assignor.)
Roylance, Samuel, New Bedford, Mass. Potato peeling and washing machine. 1,476,221; Dec. 4.
Rnddernham, Thomas E., Sudbury, England. Fountain pen. 1,476,107; Dec. 4.
Rude, Ingwald F., Chicago, Ill. Tool. 1,476,007; Dec. 4.
Rüdenberg, Reinhold, Berlin-Grunewald, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Alternating-current line. 1,475,968; Dec. 4.
Rumsky, Mickel A., Calipatria, Calif. Draft rigging for tractors. 1,476,647; Dec. 4.
Russell, Frank S., et al. (See Krautblatt, Harry, assignor.)
Russell, Samuel A., River Forest, Ill. Bed. 1,476,371; Dec. 4.
Saegesser, Albert W., Granite City, Ill. Lock for automobile wheels. 1,476,467; Dec. 4.
Sage, Richard W., and H. R. Boughner, Augusta, Kans. Sand-reel-operating mechanism. 1,476,648; Dec. 4.
Sager, George A., Albany, N. Y. Thermally-controlled valve for low-water safety telltales. 1,476,422; Dec. 4.
Salfisberg, Leroy L., assignor to Ivers-Lee Company, Newark, N. J. Packaging machine. 1,476,222; Dec. 4.
Salfisberg, Leroy L., assignor to Ivers-Lee Company, Newark, N. J. Method of and apparatus for feeding articles. 1,476,223; Dec. 4.
Salfisberg, Leroy L., assignor to Ivers-Lee Company, Newark, N. J. Apparatus for feeding articles. 1,476,224; Dec. 4.
Salisbury, Herbert S., Waltham, Mass. Clothespin bag. 1,476,423; Dec. 4.
Samsel, Apolonia, New Bedford, Mass. Ash sifter. 1,476,225; Dec. 4.
Sangama Electric Company. (See Holtz, Frederick C., assignor.)
Sargent, Frederick G., Westford, Mass., assignor to C. G. Sargent's Sons Corporation. Circulation-regulating means for driers. 1,476,424; Dec. 4.
Sargent, Sumner B., Los Angeles, Calif. Grip for polish rods and the like. 1,476,468; Dec. 4.
Sargent, Sumner B., Los Angeles, Calif. Polish-rod adjuster head. 1,476,469; Dec. 4.
Sargent's, C. G., Sons Corporation. (See Sargent, Frederick G., assignor.)
Schad, Herbert C., Los Angeles, Calif. Peanut butter and making same. 1,476,649; Dec. 4.
Schaefer, Carl W. (See Zulich, John, assignor.)
Schellens, Eugene L., Groton, Conn. Engine reverse gear. 1,476,470; Dec. 4.
Schinscholl, Erich, Cincinnati, Ohio. Envelope clasp. 1,476,650; Dec. 4.
Schlesinger, Louis, assignor to Bradley Washfountain Co., Milwaukee, Wis. Lavatory. 1,476,471; Dec. 4.
Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. 1,476,108; Dec. 4.
Schmidt, William F., assignor to All Metal Products Company, Wyandotte, Mich. Toy pistol. 1,475,109; Dec. 4.
Schrader, Ernest C., assignor to The Libbey Glass Manufacturing Company, Toledo, Ohio. Gas burner. 1,476,184; Dec. 4.
Schrader's A., Sons, Incorporated. (See Cole, Philip G. assignor.)
Schroeder, Charles F., and A. A. Quedensley, Chicago, Ill. Hammer. 1,475,969. Dec. 4.
Schulze, Arthur R. (See McGee, F. R., and Schulze.)
Schumacher, Abraham, Washington, D. C. Blanket stretcher. 1,476,372; Dec. 4.
Schwartz, William, assignor to Heidelberg, Wolf & Company, New York, N. Y. Garment. 1,476,302; Dec. 4.

Schwenck, Frederick W., Cincinnati, Ohio. Decanter. Des. 63,436; Dec. 4.
Schwenck, Frederick W., Cincinnati, Ohio. Decanter. Des. 63,437; Dec. 4.
Scott, Charles H., South Pasadena, Calif. Lubricant pump. 1,476,227; Dec. 4.
Scott, William A., jr., Pittsburgh, Pa. Shirt. 1,476,548; Dec. 4.
Scutchall, William E., et. al. (See Coles, James G., assignor.)
Seagrave Company, The. (See Havens, Homer M., assignor.)
Seaholm, Nils, Mount Vernon, N. Y. Surgeon's knife. 1,476,185; Dec. 4.
Searles, William C., assignor of one-half to F. L. Hutton, Newport, Nebr. Chain-tightener tool. 1,476,008; Dec. 4.
Security Bag Company, The. (See Vandenberg, Jacob, assignor.)
Sellers, Maurice M., Lynn, Mass. Adjustable safety hair cutter. 1,476,672; Dec. 4.
Seltzer, Ira R., Waterbury, assignor to The Gordon Electric Mfg. Co., Waterville, Conn. Two-circuit or three-heat push-through switch. 1,476,373; Dec. 4.
Senglaup, Edward F., Niagara Falls, N. Y. Screening-burning grate and system. 1,476,186; Dec. 4.
Sestak, Stephan, et. al. (See Krautblatt, Harry, assignor.)
Seymour, Benjamin F., Washington, D. C. Resilient wheel. 1,476,187; Dec. 4.
Shaw, Wesley J., assignor to New England Wood Heel Co., Haverhill, Mass. Machine for turning wood heels. 1,476,188; Dec. 4.
Shenango Pottery Co. (See De Lan, Eugene A., assignor.)
Shepherd, George F., Edgbaston, Birmingham, England. Spring suspension device for motor cycles and like vehicles. 1,476,651; Dec. 4.
Sheppard, Samuel E., and L. W. Eberlin, assignors to Eastman Kodak Company, Rochester, N. Y. Electrodeposition of rubber contings. 1,476,374; Dec. 4.
Sholes, Frank W., Portland, Me. Photoprint-washing machine. 1,476,425; Dec. 4.
Shook, Charles H., Dayton, Ohio. Material-handling machine. 1,476,375; Dec. 4.
Shore, Morris M., New York, N. Y. Cigarette appliance. 1,476,652; Dec. 4.
Short, John M., Wheeling, W. Va. Flag-supporting device. 1,476,426; Dec. 4.
Shroyer, Jacob L., Chicago, Ill., assignor to Edison Electric Appliance Company, Incorporated. Electric heater. 1,476,376; Dec. 4.
Siebenlist, Anthony G., Alois, Wis. Thermostat for ovens. 1,476,377; Dec. 4.
Siemens & Halske Aktiengesellschaft. (See Mansel, Paul, assignor.)
Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Deutschmann, Peter P., assignor.)
Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Rüdenberg, Reinhold, assignor.)
Sievern, Frederick, McKeesport, Pa. Well-capping device. 1,476,110; Dec. 4.
Simes, Montague E., Bendigo, Victoria, Australia. Inner tube for pneumatic tires. 1,476,111; Dec. 4.
Singer, Louis M., Toronto, Ontario, Canada. Supporting device for automobile bumpers. 1,476,311; Dec. 4.
Sink, William F., and G. W. Chaney, Lexington, N. C. Checkstrap holder for looms. 1,476,427; Dec. 4.
Skinner, Henry W., Waukegan, Ill. Pipe hanger. 1,476,473; Dec. 4.
Skinner, Herbert L., Brooklyn, N. Y. Hair curler. 1,476,189; Dec. 4.
Slote & Schaffer. (See Slote, Reuben, assignor.)
Slote, Reuben, Mount Vernon, N. Y., assignor to Slote & Schaffer, New York, N. Y. Buckle for ladies' belts. Des. 63,438; Dec. 4.
Slote, Reuben, Mount Vernon, N. Y., assignor to Slote & Schaffer, New York, N. Y. Buckle for ladies' belts. Des. 63,439; Dec. 4.
Small, Chesley T., assignor to First National Bank in St. Louis, St. Louis, Mo. Conveyer. 1,476,112; Dec. 4.
Smith & Davis Mfg. Co. (See Duvall, William J., assignor.)
Smith and Wesson, Inc. (See Wesson, H., and Pomeroy, assignors.)
Smith, Francis X. (See Herbert, W. C., and Smith.)
Smith, Harry B., New York, N. Y. Covered box. 1,476,549; Dec. 4.
Smith, James N., Toronto, Ontario, Canada. Electrolytic apparatus. 1,476,303; Dec. 4.
Smith, James S. B., Brooklyn, N. Y. Crimped cap. 1,476,472; Dec. 4.
Snappy Sales Company. (See Davis, Marcus J., assignor.)
Snoke, Ebert H., Orrstown, Pa. Retainer for starting-crank pins. 1,476,378; Dec. 4.
Southern Can Company. (See O'Brien, Frank J., assignor.)
Sparrow, Arthur E., Chicago, Ill. Front direction signal for motor vehicles. Des. 63,440; Dec. 4.
Spilman, William M., assignor of one-half to R. H. Coleman, McLain, Miss. Combination garment. 1,476,228; Dec. 4.
Sporer, Paul. (See Lipsner, B. B., and Sporer.)
Stadtlander, Herman C., et al. (See Allen, William A., assignor.)
Stahfest, Alfred C., New York, N. Y., assignor to Eberhard Fabric Pencil Company. Shipping case and display stand. 1,476,474; Dec. 4.
Stahl, Frank E. (See Le Messurier, F. C., and Stahl.)
Stanger, David, Stroud, England. Twin-cylinder two-stroke internal-combustion engine. 1,476,351; Dec. 4.
Stanton, Joseph R., Newburyport, Mass. Screw driver. 1,476,653; Dec. 4.
Staples, Arthur L., assignor to Winchester Repeating Arms Company, New Haven, Conn. Roller-skate roll. 1,476,550; Dec. 4.
Stebler, Fred, assignor to Stebler Parker Co., Riverside, Calif. Fruit-handling apparatus. 1,476,113; Dec. 4.
Stebler Parker Co. (See Stebler, Fred, assignor.)
Steffen, Adolf, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Lamp Standard. Des. 63,441; Dec. 4.
Stein, A., & Company. (See Liebenstein, Max J., assignor.)
Stelling, Gustaf, Del Mar, Calif. Differential mechanism. 1,476,379; Dec. 4.
Stephens, Henry J. (See Marsh, H. V., and Stephens.)
Stephenson, Leigh J., assignor to B. V. Decker, L. J. Stephenson, G. B. Burrage, W. T. Fenton, and L. A. Williams, trustees, Chicago, Ill. Control means for electrically-driven mechanism. 1,475,970; Dec. 4.
Stephenson, Leigh J., et al., trustees. (See Stephenson, Leigh J., assignor.)
Stern, Marcus. (See Doehler, H. H., and Stern.)
Stewart, James S. (See Reynolds, L. F., and Stewart.)
Stickle, Cole, assignor to Open Coil Heater & Purifier Company, Indianapolis, Ind. Auxiliary fluid-pressure control. 1,475,971; Dec. 4.
Stiggins, Edward A., deceased, by M. B. Stiggins, executrix, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for working uppers over lasts. 1,475,972; Dec. 4.
Stiggins, Margaret B., executrix. (See Stiggins, Edward A.)
Stokes & Smith Company. (See Nitsch, C. H., and Weightman, assignors.)
Stop-Burglar Lock Company. (See Hill, Elert A., assignor.)
Stovel Signal Engineering Company, The. (See Stover, Paul A., assignor.)
Stover, Paul A., assignor to The Stover Signal Engineering Company, Racine, Wis. Automobile signal. Des. 63,442; Dec. 4.
Stowe, William A., New York, N. Y. Direction indicator and stop light. Des. 63,443; Dec. 4.
St. Peter, Napoleon, Fairfield, assignor of one-half to F. E. Handy, Portland, Me. Collapsible box. 1,476,654; Dec. 4.
Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Clamp for cultivator-tool shanks. 1,476,551; Dec. 4.
Straub, Walter F. (See Zell, C. A., and Straub.)
Strauss, Ernest H., Chicago, Ill. Lamp shade. 1,476,190; Dec. 4.
Strealy, Harry A. (See Beard, H. L., and Strealy.)
Streicher, Albert, New York, N. Y. Shell-timing device. 1,476,552; Dec. 4.
Strickland, Allan J., Valdosta, Ga. Insect destroyer. 1,476,655; Dec. 4.
Stuck, William R., assignor, by mesne assignments, to The Dazey Manufacturing Company, Los Angeles, Calif. Flower holder. 1,476,553; Dec. 4.
Suess, Eduard, Vienna, Austria. Water turbine. 1,476,229; Dec. 4.
Summers, Bertrand S., Port Huron, Mich. Electrodeposition. 1,475,973; Dec. 4.
Sundstrand, Gustaf D., assignor to Rockford Tool Company, Rockford, Ill. Lathe and taper-cutting means for the same. 1,476,114; Dec. 4.
Süss, David, Mannheim, and H. Jocher, Lampertheim, near Mannheim, Germany. Transporting device for unassorted cigars which are not yet packed. 1,476,009; Dec. 4.
Sutton, William H., assignor to J. & P. Coats, Limited, Glasgow, Scotland. Cheese-winding spindle. 1,476,271; Dec. 4.
Swanson, Hjalmar, assignor to Cummins Perforator Company, Chicago, Ill. Hand perforator. 1,476,272; Dec. 4.
Swanson, Hjalmar, assignor to Cummins Perforator Company, Chicago, Ill. Hand perforator. 1,476,273; Dec. 4.
Swanson, John N., Iowa Park, Tex. Well. 1,476,554; Dec. 4.
Tabor, Bert B. and T. C., Pottersville, Mo. Dirigible headlight. 1,476,656; Dec. 4.
Tabor Manufacturing Company, The. (See Coleman, Charles W., assignor.)
Tabor, Tom C. (See Tabor, Bert B. and T. C.)
Taft, Edward P., and G. Barton, Augusta, Ga. Cotton cleaner. 1,476,010; Dec. 4.
Taggart, Robert J. (See Lewis, A. B., and Taggart, assignors.)
Taggart, William J. (See Lewis, A. B., and Taggart.)
Taliaferro, Thomas L., Chicago, Ill. Forming liners for metal caps and article produced thereby. 1,476,115; Dec. 4.

Tan Sad Limited. (See Headley, Frederick H., assignor.)
Tawney, Paul, Muskegon, Mich. Piston ring. 1,476,657; Dec. 4.
Taylor, Herbert E., Coventry, England. Apparatus for generating gear teeth. 1,476,304; Dec. 4.
Thomas, Ferdinand, New York, N. Y. Automobile tire tool. 1,476,475; Dec. 4.
Thompson, George, New York, N. Y. Bait holder for fishermen. 1,476,230; Dec. 4.
Thompson, Howard A., Pittsburgh, Pa. Electrical heating or resistance unit. 1,476,116; Dec. 4.
Thun, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Machine for measuring surface areas. 1,476,428; Dec. 4.
Thompson, Richard C. (See Allen, G. L., and Thompson.)
Thompson, Walter V., Los Angeles, Calif. Hose clamp. 1,476,024; Dec. 4.
Thomson, Arthur R. (See Phillips, William E. and E. G., and Thomson.)
Timberlake, Paul J., Jackson, Mich. Garment stretcher. 1,476,555; Dec. 4.
Tingley, Bruce H. (See Grogel, A. F. W., and Tingley.)
Toepper, Henry C., Des Plaines, Ill. Fastener. 1,476,380; Dec. 4.
Tomlinson, Charles H., Mansfield, Ohio. Coupling mechanism. 1,476,429; Dec. 4.
Torre, Pasquale Della, Philadelphia, Pa. Cabinet for phonographs and the like. 1,476,556; Dec. 4.
Torrey, F. L., & Company. (See Torrey, Raymond L., assignor.)
Torrey, Raymond L., assignor to F. L. Torrey & Company, Attleboro, Mass. Belt band. 1,475,974; Dec. 4.
Tóth, Charles J., assignor to International Process and Engineering Corporation, New York, N. Y. Internal-combustion engine. 1,476,305; Dec. 4.
Tóth, Charles J., assignor to International Process and Engineering Corporation, New York, N. Y. Internal-combustion engine. 1,476,306; Dec. 4.
Tóth, Charles J., Stapleton, assignor to International Process and Engineering Corporation, New York, N. Y. Internal-combustion engine. 1,476,307; Dec. 4.
Tóth, Charles J., Stapleton, assignor to International Process and Engineering Corporation, New York, N. Y. Internal-combustion engine. 1,476,308; Dec. 4.
Tóth, Charles J., Stapleton, assignor to International Process and Engineering Corporation, New York, N. Y. Internal-combustion engine. 1,476,309; Dec. 4.
Towle Manufacturing Company. (See Nock, Harold E., assignor.)
Travell, Warren, New York, N. Y. Cargo-handling apparatus. 1,476,557; Dec. 4.
Traver, Adelbert L., Philmont, N. Y. Loop-sewing machine. 1,476,658; Dec. 4.
Traver, Adelbert L., Philmont, N. Y. Guide and adjuster for looper needles. 1,476,659; Dec. 4.
Traylor, Ruth. (See Ellis, Warren E., assignor.)
Treloar, Walter C., Mitchell, S. Dak. Tiling target. 1,476,430; Dec. 4.
Troutman, Frank E., and C. H. Christie, Butler, Pa. Melting glass in pots. 1,476,431; Dec. 4.
Troutman, Frank E., and C. H. Christie, Butler, Pa. Glass-melting-pot furnace. 1,476,432; Dec. 4.
Trumbull, Harlan L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Pneumatic tire and making the same. 1,476,381; Dec. 4.
Tucker, Henry R., Balboa, Canal Zone. Thrashing device. 1,476,660; Dec. 4.
Tulley, William M., Portsmouth, Ohio. Register-operating means. 1,476,558; Dec. 4.
Turner & Seymour Manufacturing Company. (See Hills, Sidney C., assignor.)
Turner, James. (See Crabill, P. P., and Turner.)
Turner, James, and P. P. Crabill, Springfield, Ohio. Bumper for automobiles. 1,476,382; Dec. 4.
Twardowsky, John, assignor, by mesne assignments, to Universe Corporation, Chicago, Ill. Check valve. 1,476,383; Dec. 4.
Union Cutlery Company. (See Watson, William F., assignor.)
Universe Corporation. (See Twardowsky, John, assignor.)
United Cigarette Machine Co. (See Harwood, Aubrey H., assignor.)
United Shoe Machinery Corporation. (See Ballard, Milton H., assignor.)
United Shoe Machinery Corporation. (See Buckminster, Ira C., assignor.)
United Shoe Machinery Corporation. (See Hart, Fred V., assignor.)
United Shoe Machinery Corporation. (See Julian, Gideon J., assignor.)
United Shoe Machinery Corporation. (See Stiggins, Edward A., assignor.)
Vandenberg, Jacob, Wyoming, assignor to The Security Bag Company, Cincinnati, Ohio. Bag-making machine. 1,476,025; Dec. 4.
Van der Sterr, Petrus K., assignor to Firm Voigt & Haeffner Actien Gesellschaft, Frankfort-on-the-Main, Germany. No-voltage release for electrical switches. 1,476,085; Dec. 4.
Vandervoort, Mort, Saginaw, Mich. Reciprocatory fountain brush. 1,476,433; Dec. 4.
Van Duyn, Frederick W., assignor to R. E. Dietz Company, New York, N. Y. Lantern. 1,476,117; Dec. 4.
Van Heusen, John M., Boston, Mass., assignor to Van Heusen Products, Inc. Collar. 1,476,118; Dec. 4.
Van Heusen Products, Inc. (See Van Heusen, John M., assignor.)
Vanhorn, Frank L., et al. (See Duncan, Forest M., assignor.)
Van Nagell, Cora M., et al. (See Van Nagell, John R., assignor.)
Van Nagell, John R., assignor to C. M. Van Nagell and A. W. Edwards, Reno, Nev. Hose coupling. 1,476,119; Dec. 4.
Van Nattan, Verle V., and J. M. Paris, San Francisco, Calif. Amusement device. 1,475,975; Dec. 4.
Van Sickel, Wilber H., Langhorne, Pa., assignor to Thos. H. Dallett Co., Philadelphia, Pa. Bush chisel. 1,476,120; Dec. 4.
Van Sicklen, Edward, New York, N. Y. Trousers-stretching frame. 1,476,310; Dec. 4.
Veazey, William R., Cleveland, Ohio, and E. C. Burdick, assignors to The Dow Chemical Company, Midland, Mich. Casting light-metal alloys. 1,476,192; Dec. 4.
Venhoff, John H., Louisville, Ky. Fastening device. 1,476,231; Dec. 4.
Verdone, Frank S., Joliet, Ill. Adjustable window screen. 1,476,661; Dec. 4.
Vibro-Dental Products. (See Jones, Howard R., assignor.)
Victor Shoe Machinery Company. (See Peterson, O. T., and Leach, assignors.)
Viscoloid Company. (See Person, Earl R., assignor.)
Voigt & Haeffner Actien Gesellschaft. (See Van der Sterr, Petrus K., assignor.)
Wagner, George E.; R. R. and R. M. Downie assignors to Keystone Driller Company, Beaver Falls, Pa. Excavating scoop. 1,476,121; Dec. 4.
Walker, Alexander J., Owen Sound, Ontario, Canada, assignor to H. P. Walker, Hepworth, Ontario, Canada. Apparatus for the manufacture of ice-cream cones. 1,476,122; Dec. 4.
Walker, Henry P. (See Walker, Alexander J., assignor.)
Walker, John W., Batley, assignor of one-half to Platt Brothers and Company Limited, Oldham, England. Automatic feeder for carding engines. 1,476,476; Dec. 4.
Walker, John W., Batley, assignor of one-half to Platt Brothers and Company Limited, Oldham, Lancaster, England. Movable back for apron feeders. 1,476,477; Dec. 4.
Wappler Electric Co. (See Bucky, Gustav, assignor.)
Ward, Artemas. (See Giles, Harvey, assignor.)
Warenskjold, Axel, assignor to Atlas Imperial Engine Company, Oakland, Calif. Valve control for Diesel engines. 1,476,312; Dec. 4.
Warner, Joseph, Nashville, Tenn. Making ferrophosphorus. 1,475,976; Dec. 4.
Watson, William F., assignor to Union Cutlery Company, Inc., Olean, N. Y. Lock and guard for knives. 1,476,123; Dec. 4.
Weatherby, Calvin S., Westville, N. J. Shipping box for carboys. 1,476,559; Dec. 4.
Weber, Walter S., and M. L. Yergey, assignors to Wm. H. Luden, Inc., Reading, Pa. Counting and packaging machine. 1,476,274; Dec. 4.
Weibull, Ernst H. W., assignor, by mesne assignments, to Nya Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Chuck. 1,476,434; Dec. 4.
Weightman, William A. (See Nitsch, C. H., and Weightman.)
Weinacht, Rudolf J., New York, N. Y. Index file. 1,476,662; Dec. 4.
Weir, William D., Cathcart, assignor to G. & J. Weir, Limited, Glasgow, Scotland. Withdrawal of air and water of condensation from steam condensers. 1,476,663; Dec. 4.
Wellington, Arthur W., assignor to Chase Companies Inc., Waterbury, Conn. Furniture-knob mount. 1,476,384; Dec. 4.
Wenham, George H., Bromley, assignor to G. Beaton & Son (1919) Limited, London, England. Folding hood for motor road vehicles and other vehicles. 1,476,313; Dec. 4.
Wepplo, Isaac W., Chicago, Ill. Collapsible-tube-closing machine. 1,476,124; Dec. 4.
Wesson, Harold, and E. S. Pomeroy, assignors, by mesne assignments, to Smith and Wesson, Inc., Springfield, Mass. Target pistol. 1,476,125; Dec. 4.
West, Charles, Chicago, Ill. Illuminated sign. 1,475,977; Dec. 4.
Westerman, Frederick, Chicago, Ill. Beater. 1,475,978; Dec. 4.
Weston, William S., Columbia, S. C. Device for removing pulleys from shafts. 1,476,128; Dec. 4.
Westinghouse Electric & Manufacturing Company. (See Eccles, William, assignor.)
Westinghouse Electric & Manufacturing Company. (See Schmidt, Henry F., assignor.)
Wharton, Astley W., Churchville, Pa. Automobile buffer. 1,476,478; Dec. 4.
White, Alphonzo, assignor to Baxter D. Whitney & Son, Inc., Winchendon, Mass. Indicator. 1,476,385; Dec. 4.
White, Birdora H., Detroit, Mich. Fastener. 1,476,193; Dec. 4.

Whitney, Baxter D., & Son, Inc. (See White, Alphonzo, assignor.)
Whitney, F. A., Carriage Company. (See Ambler, George B., assignor.)
Whittet, Arthur B., Washington, D. C. Equalizing device. 1,476,435; Dec. 4.
Whittingham, Richard A., Newark, assignor to Atlas Axle Company, Wilmington, Del. Vehicle brake. 1,476,314; Dec. 4.
Wiederhold, Edward C. (See Kemp, I. M., and Wiederhold.)
Wiegand, Edwin L., Pittsburgh, Pa. Emplacing apparatus. 1,476,126; Dec. 4.
Wiesner, Joseph F., Ellis, Kans. Measuring and cutting machine. 1,476,664; Dec. 4.
Wilkinson, Louis H., assignor to Manning, Bowman & Company, Meriden, Conn. Electric toaster. 1,476,129; Dec. 4.
Will, Matthew P., Richmond, Va. Attachment for motor vehicles. 1,476,665; Dec. 4.
Williams, Charles J., jr. (See Creighton, F. M., and Williams.)
Williams, John T., Los Angeles, Calif. Stile-horning machine. 1,476,666; Dec. 4.
Williams, Joe C., Ferda, Ark. Breast drill. 1,476,386; Dec. 4.
Williams, Lynn A., et al., trustees. (See Stephenson, Leigh J., assignor.)
Williams Patent Crusher and Pulverizer Company. (See Plaisted, Harold M., assignor.)
Williams, Remsen T., Great Neck, N. Y. Putty. 1,476,127; Dec. 4.
Williams, White & Co. (See Eynon, Thomas, assignor.)
Williams, William E., Wilmette, assignor to American Foundries, Chicago, Ill. Metal disc wheel. 1,476,130; Dec. 4.
Wilsey Incorporated. (See Wilsey, Irven, H., assignor.)
Wilsey, Irven H., Chicago, Ill., assignor, by mesne assignments, to Wilsey Incorporated. Method and apparatus for controlling internal-combustion engines. 1,476,315; Dec. 4.
Wilsey, Irven H., Chicago, Ill., assignor, by mesne assignments, to Wilsey Incorporated. Method and apparatus for controlling internal-combustion engines. 1,476,316; Dec. 4.
Wilson, Roger E. (See McCullough, E. W., and Wilson.)
Winchester Repeating Arms Company. (See Staples, Arthur L., assignor.)
Wingard, Oscar. (See Osher, Julius C., assignor.)
Winters, John H. (See Winters, Ralph L. and J. H.)
Winters, Ralph L. and J. H., Clarksville, Tenn. Treating garlicky wheat. 1,476,131; Dec. 4.
Wohl, Jerome I. (See Reagen, George M., assignor.)
Wood, Arthur C., Mansfield, Ohio. Means for controlling the light rays of reflector lamps. 1,476,132; Dec. 4.
Wood, Clarence G., assignor to Hoosier Clutch Company, Muncie, Ind. Clutch-operating mechanism. 1,475,979; Dec. 4.
Wood, Harold G., Dexter, Me. Clothes drier. 1,476,667; Dec. 4.
Work-Organizer Specialties Company. (See Casey, Charles C., assignor.)
Woss, Paul, Chicago, Ill. Combined ironing board and stepladder. 1,476,561; Dec. 4.
Wirebounds Patents Company. (See Bauwens, Seraphine F., assignor.)
Wireless Specialty Apparatus Company. (See Richard, G. W., and Barth, assignors.)
Wishon, Ralph, San Francisco, Calif. Internal-combustion engine. 1,476,275; Dec. 4.
Witmer, Fred, Woodville, Ohio. Valve-bag closure. 1,476,560; Dec. 4.
Witz, Henry, Oberhausen, Germany, assignor to Babcock & Wilcox Company, New York, N. Y. Sealing device for traveling-grate furnaces. 1,476,276; Dec. 4.
Wright, John E. (See Hill, S. C., Gibson, and Wright.)
Wright, Wilbur L., Fulton, N. Y. Rendering paper material and the like grease and water proof. 1,476,562; Dec. 4.
Wright, Wilbur L., assignor, by mesne assignments, to Oswego Falls Corporation, Fulton, N. Y. Brick-ice-cream box. 1,476,563; Dec. 4.
Wylie, Thomas B. (See Armstrong, J. R., and Wylie.)
Yancey, Samuel H., New York, N. Y. Seal for metal cans and like containers. 1,476,564; Dec. 4.
Yeager, Lee A., Akron, Ohio. Window screen. 1,476,565; Dec. 4.
Yergey, Merlin L. (See Weber, W. S., and Yergey.)
Yocom, Alvin M., Pottstown, Pa. Tank closure. 1,476,566; Dec. 4.
Young, Sanford C., Erie, Pa., assignor to American Time Lock Company; W. C. Kramer, trustee. Fraudless ballot-marking machine. 1,476,567; Dec. 4.
Zachry, Walter H., Atlanta, Ga. Mop. 1,476,317; Dec. 4.
Zachry, Walter H., Atlanta, Ga. Mop. 1,476,318; Dec. 4.
Zander, John, Chicago, assignor to Geo. D. Roper Corporation, Rockford, Ill. Gas mixer. 1,476,232; Dec. 4.
Zell, Carl A., and W. F. Straub, Chicago, Ill., assignors to Zell-Straub Laboratories, Incorporated. Biological product. 1,476,233; Dec. 4.
Zell-Straub Laboratories, Incorporated. (See Zell, C. A., and Straub, assignors.)
Zerk, Oscar, assignor to The Allyne-Zerk Company, Cleveland, Ohio. Lubricating apparatus. 1,475,980; Dec. 4.
Zilen, Victor W. (See Harris, H. M., and Zilen.)
Zulich, John, Cleveland, assignor of forty-nine one-hundredths to C. W. Schaefer, Lakewood, Ohio. Casing for laminated springs. 1,476,568; Dec. 4.
Zweigbergk, Thorsten, London, England. Electric-motor-control system. 1,476,569; Dec. 4.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 4TH DAY OF DECEMBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Accelerator, Auxiliary. F. T. Fridrich. 1,476,398–9; Dec. 4.
Acetylene-gas generator. T. L. Bramblett. 1,476,484; Dec. 4.
Adding, calculating and recording machine. A. F. W. Grogel and B. H. Tingley. 1,475,944; Dec. 4.
Aeroplane superchargers. Control system for. E. W. Rice, jr. 1,476,418; Dec. 4.
Air compressors, Lubricator for. J. L. Buchmann. 1,476,390; Dec. 4.
Air heating and impregnating apparatus. O. Pascale. 1,476,461; Dec. 4.
Aircraft condenser. D. M. Ramsay. 1,476,541; Dec. 4.
Airplane construction. M. C. Baumann. 1,476,438; Dec. 4.
Alarm: *See*—
Burglar alarm.
Alloys, Casting light-metal. W. R. Veazey and E. C. Burdick. 1,476,192; Dec. 4.
Ammonia, Manufacture of. I. W. Cederberg. 1,476,283; Dec. 4.
Amusement device. V. V. Van Nattan and J. M. Paris. 1,475,975; Dec. 4.
Animal casings, Shrinking. E. G. James. 1,476,204; Dec. 4.
Animal tissues, Machine for washing edible. H. B. Buckham. 1,475,929; Dec. 4.
Annealing-box bottom. I. F. Lehman. 1,476,526; Dec. 4.
Antiskid shoe. R. F. Hall. 1,476,606; Dec. 4.
Atomizer. W. E. and C. T. Brown. 1,476,589; Dec. 4.
Auto accident identifier. W. H. Leonard. 1,476,625; Dec. 4.
Automatic gate. E. A. Bigler. 1,476,354; Dec. 4.
Automatic switch. F. C. Holtz. 1,476,013; Dec. 4.
Automobile attachment. C. F. Cowdrey. 1,476,393; Dec. 4.
Automobile buffer. A. W. Wharton. 1,476,478; Dec. 4.
Automobile bumper. C. Girl and W. E. Dunston. 1,476,605; Dec. 4.
Automobile bumper. J. Turner and P. P. Crabill. 1,476,382; Dec. 4.
Automobile bumper, Supporting device for. L. M. Singer. 1,476,311; Dec. 4.
Automobile fender brace. F. M. Duncan. 1,476,602; Dec. 4.
Automobile hoods, Hinge structure for. J. P. Robertson. 1,475,967; Dec. 4.
Automobile jack. A. Mensik. 1,476,208; Dec. 4.
Automobile radiators and the like, Closure for. H. P. Hanson. 1,476,074; Dec. 4.
Automobile screen. V. D. Hitchings. 1,476,336; Dec. 4.
Automobile signal. P. A. Stover. Des. 63,442; Dec. 4.
Automobile steering wheel. T. J. Martin. 1,476,347; Dec. 4.
Automobile theft preventer. H. R. Mitchell. 1,476,166; Dec. 4.
Automobile top. L. J. Carl. 1,476,391; Dec. 4.
Automobile wheels, Lock for. A. W. Saegesser. 1,476,467; Dec. 4.
Automobiles, Body for. L. B. Cassell. 1,476,051; Dec. 4.
Automobiles, Bumper for. P. P. Crabill and J. Turner. 1,476,053; Dec. 4.
Automobiles, Combination bed, table, and article carrier for. F. E. Bowden. 1,476,280; Dec. 4.
Automobiles, Fuel lock for. A. F. Gantz. 1,476,293; Dec. 4.
Axis of rotation of a body, Apparatus for the determination of the direction of the. H. Hort. 1,476,077; Dec. 4.
Axle construction. F. S. Duesenberg. 1,476,328; Dec. 4.
Bag: *See*—
Clothespin bag.
Bag holder. W. J. Boriase. 1,476,045. Dec. 4.
Bag-making machine. J. Vandenberg. 1,476,025; Dec. 4.
Bale-tie bands, Method of restoring or rejuvenating. R. Margolius. 1,476,346; Dec. 4.
Ballot-marking machine, Fraudless. S. C. Young. 1,476,567; Dec. 4.
Balls, Device for marking golf. A. B. Horne. 1,476,203; Dec. 4.
Barrel hoist. W. E. Hanson. 1,476,607; Dec. 4.
Barrels and casks, Making. E. A. Bolinder. 1,476,041; Dec. 4.
Baseball mask. H. Goldsmith. 1,475,991; Dec. 4.
Bathing suit. M. Green. 1,476,248; Dec. 4.
Bathing suits, Trunk hose of. M. Green. 1,476,247; Dec. 4.
Bearing, Antifriction. C. E. Dath. 1,476,055; Dec. 4.
Bearing, Thrust. F. R. McGee. 1,476,345; Dec. 4.
Bearing, Walking-beam. A. L. Halliday. 1,476,334; Dec. 4.
Beater. F. Westerman. 1,475,978; Dec. 4.
Bed. S. A. Russell. 1,476,371; Dec. 4.
Bed construction. M. Lipps. 1,476,089; Dec. 4.
Bed frame, Folding. H. R. Basford. 1,476,279; Dec. 4.
Bed warmer, Electric. H. Guggenbühl. 1,476,073; Dec. 4.
Beds, Corner fastener for. W. J. Duvall. 1,476,499; Dec. 4.
Beehive. H. McKay. 1,476,453; Dec. 4.
Belt band. R. L. Torrey. 1,475,974; Dec. 4.
Belt fastener. M. Kiefer. 1,476,084; Dec. 4.
Bench vise. W. McDaniel, F. E. Davis, and E. F. Connor. 1,476,628; Dec. 4.
Billets, Removing surface faults from. J. J. Coffey. 1,476,593; Dec. 4.
Binder, Loose-leaf. W. R. Horsfield. 1,476,614; Dec. 4.
Binding-roller machine. J. E. Perrault. 1,476,539; Dec. 4.
Biological product. C. A. Zell and W. F. Straub. 1,476,233; Dec. 4.
Bit: *See*—
Drill bit.
Blanket stretcher. A. Schumacher. 1,476,372; Dec. 4.
Board: *See*—
Teeter board.
Bodies, machines, or other apparatus, Means for supporting and for connecting. W. Eccles. 1,476,062; Dec. 4.
Boll-weevil destroyer, Cotton-. J. M. Lantz and E. C. Cason. 1,476,259; Dec. 4.
Bolt: *See*—
Threadless bolt.
Bolt-boppering machine. T. Eynon. 1,476,064; Dec. 4.
Book or binder, Loose-leaf. W. R. Horsfield. 1,476,615; Dec. 4.
Bottle. E. L. Husting. Des. 63,400; Dec. 4.
Bottle holder, Milk-. A. Codair. 1,475,934; Dec. 4.
Bottle, Perfume. L. Philippe. Des. 63,433–4; Dec. 4.
Box: *See*—
Collapsible box. Match box.
Covered box. Sluice box.
Ice-cream box.
Brace: *See*—
Automobile fender brace.
Bracket: *See*—
Scaffolding bracket.
Braiding machine. E. Bächli. 1,475,981; Dec. 4.
Braiding machine. X. Pfrunder. 1,476,639; Dec. 4.
Brake: *See*—
Vehicle brake.
Brake mechanism, Friction. C. L. C. Magee. 1,476,367; Dec. 4.
Brake ring, Water-cooled. L. A. Knopp. 1,475,955; Dec. 4.
Brake shoe, Portable. G. E. Osterman. 1,476,099; Dec. 4.
Breast drill. J. C. Williams. 1,476,386; Dec. 4.
Brickmaking machine. R. P. M. Davis. 1,476,496; Dec. 4.
Brush. W. G. Kett. 1,476,083; Dec. 4.
Brush, Reciprocatory fountain. M. Vandervoort. 1,476,433; Dec. 4.
Brush, Safety fountain. W. C. Herbert and F. X. Smith. 1,476,610; Dec. 4.
Buckle for ladies' belts. R. Slote. Des. 63,438–9; Dec. 4.
Building section. A. C. Brown and H. Gillett. 1,476,485; Dec. 4.
Burglar alarm. S. Fodor. 1,476,502; Dec. 4.
Burglar alarm. W. T. Kjelland. 1,476,340; Dec. 4.
Burner: *See*—
Gas burner. Igniter burner.
Burner. O. M. Jarboe. 1,476,338; Dec. 4.
Burners, Process and apparatus for feeding sulphur to. H. D. Kerr. 1,476,523; Dec. 4.
Cabinet closure. E. Ohlstrand. 1,476,414; Dec. 4.
Cable hanger. D. K. McGinty. 1,476,093; Dec. 4.
Cable tightener. F. W. Barber. 1,476,026; Dec. 4.
Cableways, Bucket and associated parts for. T. S. Miller. 1,476,536; Dec. 4.

Calculating machine. C. M. Friden. 1,476,197–8; Dec. 4.
Calculating machine. C. L. Johnston. 1,476,205; Dec. 4.
Call-indicating system. C. E. Lomax. 1,476,366. Dec. 4.
Camp case, Convertible. J. Blank. 1,476,389; Dec. 4.
Can: *See*—
Oil can.
Can closure. F. J. O'Brien. 1,476,213; Dec. 4.
Can closure, Sanitary. F. J. O'Brien. 1,476,214; Dec. 4.
Can-filling machine. C. H. Ayars. 1,476,278; Dec. 4.
Can opener. H. Garrison. 1,476,360; Dec. 4.
Cans and like containers, Seal for metal. S. H. Yancey. 1,476,564; Dec. 4.
Cans, Soldering mechanism for. A. L. Kronquest. 1,476,405; Dec. 4.
Cap, Crimped. J. S. B. Smith. 1,476,472; Dec. 4.
Caps and article produced thereby, Forming liners for metal. T. L. Taliaferro. 1,476,115; Dec. 4.
Car door. J. Montgomery. 1,476,168; Dec. 4.
Car door, Box-. G. M. DeVilbiss. 1,476,326; Dec. 4.
Car doors, Seal for box-. J. E. McInnis. 1,476,092; Dec. 4.
Car for coaster railways. F. A. Church. 1,476,148; Dec. 4.
Cars, Differential gear for motor. P. Böttcher, jr. 1,476,044; Dec. 4.
Cars, Pedestal and wear plate for railway. E. Posson. 1,476,463; Dec. 4.
Carboys, Shipping box for. C. S. Weatherby. 1,476,559; Dec. 4.
Card-spreading device. P. E. Fleming. 1,476,157; Dec. 4.
Cargo-handling apparatus. W. Travell. 1,476,557; Dec. 4.
Case: *See*—
Camp case. Vanity case.
Envelope case.
Casings, Supporting device for. S. Rasmussen. 1,476,542; Dec. 4.
Catalytic chemicals, Distilling with. G. L. Pritchard and H. Henderson. 1,476,219; Dec. 4.
Centrifugal extractor. S. Prestwich. 1,476,179; Dec. 4.
Chain attachment. H. A. Rabey. 1,476,465; Dec. 4.
Chain belt for driving purposes. H. S. W. Firminger. 1,476,603; Dec. 4.
Chain fastener. H. L. Beard and H. A. Strealy. 1,476,583; Dec. 4.
Chain fastener. F. C. Le Messurier and F. E. Stahl. 1,476,451; Dec. 4.
Chain-tightener tool. W. C. Searles. 1,476,008. Dec. 4.
Check cutter. C. T. Raschick. 1,476,417; Dec. 4.
Chemical conversion of substances. L. Heis and H. Jezler. 1,475,995; Dec. 4.
Chimney cap. A. Hodel. 1,476,613; Dec. 4.
Chimney or smokestack ventilator. A. H. Campbell. 1,476,488; Dec. 4.
Chisel, Bush. W. H. Van Sickel. 1,476,120; Dec. 4.
Chuck. E. H. W. Weiball. 1,476,434; Dec. 4.
Cigarette appliance. M. M. Shore. 1,476,652; Dec. 4.
Cigarette with crimped seam and making the same, Mouthpiece. A. H. Harwood. 1,476,075; Dec. 4.
Cigars which are not yet packed, Transporting device for unassorted. D. Süss and H. Jocher. 1,476,009; Dec. 4.
Cinematograph films, Means for the projection of. G. B. Bowell. 1,476,237; Dec. 4.
Cinematograph projection apparatus, Device for stopping the films in. S. Kucharski. 1,476,087; Dec. 4.
Circuit closer, Float-operated. A. Lazzari. 1,476,525; Dec. 4.
Clamp: *See*—
Hose clamp. Rail clamp.
Clamp and file guide, Bearing. J. E. Matthews. 1,476,265; Dec. 4.
Clasp: *See*—
Envelope clasp.
Clasp. L. J. Roy. Des. 63,435; Dec. 4.
Classifier, Hydraulic. R. S. Handy and E. Hearing. 1,476,250; Dec. 4.
Cleaner: *See*—
Spark-plug cleaner.
Cleaning machine. G. L. Allen and R. C. Thompson. 1,476,133; Dec. 4.
Clocks, Synchronizer for secondary. P. Mansel. 1,476,261; Dec. 4.
Closet: *See*—
Water-closet.
Closet bowls, Installing water-. C. Dwyer. 1,476,498; Dec. 4.
Clothes drier. H. G. Wood. 1,476,667; Dec. 4.
Clothesline pole. E. H. Kreuser. 1,476,623; Dec. 4.
Clothespin bag. H. S. Salisbury. 1,476,423; Dec. 4.
Clutch. M. H. Ballard. 1,475,926; Dec. 4.
Clutch control. J. F. Ballak. 1,476,578; Dec. 4.
Clutch-operating mechanism. C. G. Wood. 1,475,979; Dec. 4.
Clutch-pedal control, Auxiliary-. T. J. Brady. 1,476,585; Dec. 4.
Coating apparatus. I. C. Buckminster. 1,476,047; Dec. 4.
Coating apparatus. G. J. Julian. 1,476,015; Dec. 4.
Coating surfaces, Composition of matter for. C. A. Keedwell. 1,476,016; Dec. 4.
Collapsible box. N. St. Peter. 1,476,654; Dec. 4.
Collar. J. M. van Heusen. 1,476,118; Dec. 4.
Computer. J. S. Holm. 1,476,514; Dec. 4.

Concrete construction. E. F. Allbright. 1,476,572; Dec. 4.
Condensers, Withdrawal of air and water of condensation from steam. W. D. Weir. 1,476,663; Dec. 4.
Confection. F. C. Hitch and A. H. Peter. 1,476,612; Dec. 4.
Container. H. R. Jones. 1,476,404; Dec. 4.
Container closure. S. F. Nahm. 1,476,411; Dec. 4.
Conveyer. C. T. Small. 1,476,112; Dec. 4.
Conveyers, Swivel connection for elevator. L. B. Neighbour. 1,476,634; Dec. 4.
Conveyers, Transfer device for. S. Olson. 1,475,962; Dec. 4.
Cooking apparatus. V. Pace. 1,476,215; Dec. 4.
Core remover. H. E. Easterday. 1,475,989; Dec. 4.
Cotton cleaner. E. P. Taft and G. Barton. 1,476,010; Dec. 4.
Cottonseed, Preservation and preparation for transportation of. A. W. MacIlwaine. 1,476,532; Dec. 4.
Counting and packaging machine. W. S. Weber and M. L. Yergey. 1,476,274; Dec. 4.
Coupling: *See*—
Hose coupling.
Coupling mechanism. C. H. Tomlinson. 1,476,429; Dec. 4.
Covered box. H. B. Smith. 1,476,549; Dec. 4.
Cradles, Fastening device for gun. B. P. Joyce. 1,476,079; Dec. 4.
Crank pins, Retainer for starting-. E. H. Snoke. 1,476,378; Dec. 4.
Cream, Cosmetic. K. S. Bort. 1,476,483; Dec. 4.
Crib, Mechanically-operated. A. Cappabianca. 1,476,146; Dec. 4.
Cuboid-muscle developer. W. C. Burns. 1,476,590; Dec. 4.
Cue tip. A. R. Kirk. 1,476,622; Dec. 4.
Cultivator-tool shanks, Clamp for. C. G. Strandlund. 1,476,551; Dec. 4.
Current conductors, Supporting base for. A. Pritzker. 1,476,105; Dec. 4.
Current line, Alternating-. R. Rüdenberg. 1,475,968; Dec. 4.
Curtain ring. S. C. Hills. 1,476,513; Dec. 4.
Cushion, Spring seat. C. C. Meutsch. 1,476,456; Dec. 4.
Cuspidor, Flushing. H. G. Grubbs. 1,475,945; Dec. 4.
Cutter: *See*—
Check cutter. Wire cutter.
Cutting tool. W. Lowry. 1,476,019; Dec. 4.
Cutting tool. H. K. Porter. 1,476,640; Dec. 4.
Decanter. F. W. Schwenck. Des. 63,436–7; Dec. 4.
Dental casting flask heater and instrument sterilizer. J. E. Burns. 1,476,324; Dec. 4.
Dental cuspidors, Adjustable sanitary fountain-cup attachment for. I. A. Burnett. 1,476,356; Dec. 4.
Dental mandrel. I. A. Burnett. 1,476,357; Dec. 4.
Dental plates in metal, Apparatus for casting. H. L. Hobday and F. W. Nunn. 1,476,996; Dec. 4.
Dental thread holder. C. C. Cooke. 1,475,986; Dec. 4.
Derectifying system. L. W. Carroll. 1,475,933; Dec. 4.
Die-casting apparatus. J. Kralund and C. H. Duckworth. 1,476,257; Dec. 4.
Differential mechanism. G. Stelling. 1,476,379; Dec. 4.
Direction indicator and stop light. W. A. Stowe. Des. 63,443; Dec. 4.
Direction signal. W. A. Jacobus. 1,476,616; Dec. 4.
Dish or similar article, Covered. E. J. Johnson. Des. 63,401; Dec. 4.
Disk-shaped objects, Holder for. H. H. Clark. 1,476,285; Dec. 4.
Disk wheel, Metal. W. E. Williams. 1,476,130; Dec. 4.
Dispensing mechanism. E. J. Grace. 1,476,071; Dec. 4.
Display box. G. T. Bates. Des. 63,444; Dec. 4.
Display packaging for rolled rugs and the like. J. H. Millholland. 1,476,267; Dec. 4.
Door. L. H. Nishkian. 1,476,097; Dec. 4.
Door lock. N. B. Hurd. 1,476,364; Dec. 4.
Doorpost and latching means therefor, Movable. R. H. Greegor. 1,476,297; Dec. 4.
Doors, Attachment for screen. H. N. Burns. 1,476,487; Dec. 4.
Doorcheck and the like. A. Jagmin. 1,476,159; Dec. 4.
Dowel fastening. T. F. Ferry. 1,476,501; Dec. 4.
Draft connection. A. S. Krotz. 1,475,956; Dec. 4.
Drier: *See*—
Clothes drier.
Driers, Circulation-regulating means for. F. G. Sargent 1,476,424; Dec. 4.
Drill: *See*—
Breast drill.
Drill bit. S. F. and J. F. Bashara. 1,476,481; Dec. 4.
Drill bits, Apparatus for forging five-point rock-. J. Ditson. 1,475,939; Dec. 4.
Drilling machines, Attachment for. J. F. Buhr. 1,475,982; Dec. 4.
Drilling rig. W. J. Jeffers. 1,476,402; Dec. 4.
Dry pan. D. Brown. 1,476,143; Dec. 4.
Dye sticks, Snubbing device for. D. M. Giles. 1,476,296; Dec. 4.
Easel. H. Palais. 1,476,216; Dec. 4.
Easel, Lap. F. Renugh. 1,476,545; Dec. 4.
Educational apparatus. J. S. Crate. 1,476,671; Dec. 4.
Egg separator. I. H. Hall. 1,476,249; Dec. 4.
Electric-boiler construction. F. T. Kaelin. 1,476,080; Dec. 4.

Electric driving. P. P. Deutschmann. 1,476,059; Dec. 4.
Electric generator. C. W. Dake. 1,476,394; Dec. 4.
Electric heater. J. L. Shroyer. 1,476,376; Dec. 4.
Electric machine, Dynamo-. M. Arendt. 1,476,575; Dec. 4.
Electric-motor-control system. T. Zweigbergk. 1,476,569; Dec. 4.
Electric resistance element. F. A. Fahrenwald. 1,475,942; Dec. 4.
Electric switch. G. A. Burnham. 1,476,141; Dec. 4.
Electric switches, No-voltage release for. P. K. van der Sterr. 1,476,085; Dec. 4.
Electric water heater. W. W. Hicks and A. J. Kercher. 1,476,335; Dec. 4.
Electrical heating or resistance unit. H. A. Thompson. 1,476,116; Dec. 4.
Electrical receptacle. R. B. Benjamin. 1,476,036; Dec. 4.
Electrically driven mechanism, Control means for. L. J. Stephenson. 1,475,970; Dec. 4.
Electrodeposition. B. S. Summers. 1,475,973; Dec. 4.
Electrolysis, Method of. F. G. Clark. 1,476,284; Dec. 4.
Electrolytic apparatus. J. N. Smith. 1,476,303; Dec. 4.
Electrolytic cell. R. S. Handy. 1,476,251; Dec. 4.
Electromagnetic control. B. W. Jones. 1,475,951; Dec. 4.
Electromagnetically-actuated apparatus. M. Herklotz. 1,476,363; Dec. 4.
Elevator-door lock. M. Jacobsky. 1,476,254; Dec. 4.
Elevator-hatchway gate. M. F. Kevlin. 1,476,449; Dec. 4.
Emplacing apparatus. E. L. Wiegand. 1,476,126; Dec. 4.
Engine: *See*—
Gas engine. Internal-combustion engine.
Engines, Automatic feeder for carding. J. W. Walker. 1,476,476; Dec. 4.
Engines, Decarbonizing attachment for internal-combustion. R. S. Eggleston. 1,476,241; Dec. 4.
Engines, Electric starter for internal-combustion. A. Barényi and P. Kaemmerer. 1,476,322; Dec. 4.
Engines, Hand starting device for internal-combustion. J. A. Downham. 1,476,497; Dec. 4.
Engines, Method of and apparatus for controlling internal-combustion. I. H. Wilsey. 1,476,315–16; Dec. 4.
Engines, Piston for internal-combustion. K. N. Mathews. 1,476,264; Dec. 4.
Engines, Valve-operating mechanism for internal-combustion. L. V. Pence. 1,475,965; Dec. 4.
Ensilage packer. E. D. Kilmartin. 1,476,620; Dec. 4.
Envelope. E. F. Cross. 1,476,495; Dec. 4.
Envelope clasp. E. Schinscholl. 1,476,650; Dec. 4.
Equalizing device. A. B. Whittet. 1,476,435; Dec. 4.
Extractor: *See*—
Centrifugal extractor.
Fabric, Machine for preparing. E. D. Putt. 1,476,270; Dec. 4.
Fastener. H. C. Toepper. 1,476,380; Dec. 4.
Fastener. B. H. White. 1,476,193; Dec. 4.
Fastener, Separable. F. S. Carr. 1,476,147; Dec. 4.
Fastening device. J. H. Venhoff. 1,476,231; Dec. 4.
Feeders, Movable back for apron. J. W. Walker. 1,476,477; Dec. 4.
Feeding articles, Apparatus for. L. L. Salfisberg. 1,476,224; Dec. 4.
Feeding articles, Method of and apparatus for. L. L. Salfisberg. 1,476,223; Dec. 4.
Fencemaker's tool. C. T. Branham. 1,476,587; Dec. 4.
Ferrophosphorus. J. Warner. 1,475,976; Dec. 4.
File, Index. R. J. Weinacht. 1,476,662; Dec. 4.
Films, Making composite. S. J. Carroll. 1,476,392; Dec. 4.
Fire extinguisher. C. A. Conover. 1,476,594; Dec. 4.
Firearm, Educative dummy. R. E. Reardon. 1,476,181; Dec. 4.
Fishermen, Bait holder for. G. Thompson. 1,476,220; Dec. 4.
Fishing bait. J. B. Bingham. 1,476,139; Dec. 4.
Fishing tackle. C. Fredricks. 1,476,067; Dec. 4.
Flag holder. J. T. Moody. 1,475,960; Dec. 4.
Flag-supporting device. J. M. Short. 1,476,426; Dec. 4.
Flash-light lever. G. I. Johnson. Des. 63,402; Dec. 4.
Flower holder. W. R. Stuck. 1,476,553; Dec. 4.
Fluid meters, Integrating and registering device for. J. R. Armstrong and T. B. Wylie. 1,476,576; Dec. 4.
Fluid-pressure control, Auxiliary. C. Stickle. 1,475,971; Dec. 4.
Fluid-translating device. H. F. Schmidt. 1,476,108; Dec. 4.
Flying machine. J. A. Lehnert. 1,476,162; Dec. 4.
Food product and making the same. G. Richards. 1,476,182; Dec. 4.
Foot rest. I. E. Carlson. 1,476,592; Dec. 4.
Frame: *See*—
Bed frame. Trousers-stretching frame.
Self-locking frame.
Fruit-gathering machine. P. H. Lint. 1,476,207; Dec. 4.
Fruit-handling apparatus. F. Stobler. 1,476,113; Dec. 4.
Fruits, Coloring citrous. F. E. Denny. 1,475,938; Dec. 4.
Furnace. G. D. Bradshaw. 1,476,142; Dec. 4.
Furnaces, Operation of cupola. L. J. Rochlitz. 1,476,106; Dec. 4.
Furnaces, Sealing device for traveling-grate. H. Witz. 1,476,276; Dec. 4.
Furniture-knob mount. A. W. Wellington. 1,476,384; Dec. 4.
Fuse cartridge. J. M. Johnson. 1,476,339; Dec. 4.
Game. S. Kawai. 1,476,000; Dec. 4.
Game. P. R. Perkins. 1,476,175; Dec. 4.
Game, Curling. J. A. Ross. 1,476,369; Dec. 4.
Garment. W. Schwartz. 1,476,302; Dec. 4.
Garment, Combination. W. M. Spilman. 1,476,228; Dec. 4.
Garment, Inflatable swimming. J. Czyzykowski. 1,476,286; Dec. 4.
Garment protector. G. K. Guinzburg. 1,476,299; Dec. 4.
Garment stretcher. P. J. Timberlake. 1,476,555; Dec. 4.
Garment support. I. L. Gates. 1,476,504–5; Dec. 4.
Garter fastener. M. J. Liebenstein. 1,476,018; Dec. 4.
Gas burner. E. C. Schrader. 1,476,184; Dec. 4.
Gas engine. T. Kashiwabara. 1,476,255; Dec. 4.
Gas heater. J. H. Grayson. Des. 63,398; Dec. 4.
Gas in twin generators, Generating mixed. W. A. P. Berg. 1,476,235; Dec. 4.
Gas mixer. J. Zander. 1,476,232; Dec. 4.
Gas purifying apparatus. A. L. Galusha. 1,476,292; Dec. 4.
Gases, Method of and apparatus for determining the heat value of. O. Pommer. 1,476,601; Dec. 4.
Gate: *See*—
Automatic gate. Elevator-hatchway gate.
Gauge: *See*—
Oil gauge. Taper gauge.
Pressure gauge.
Gear, Engine reverse. E. L. Schellens. 1,476,470; Dec. 4.
Gear for goriometric apparatus, Differential. A. Castiglioni. 1,476,591; Dec. 4.
Gear teeth, Apparatus for generating. H. E. Taylor. 1,476,304; Dec. 4.
Gears, Calculator for. J. H. Carver. 1,476,489; Dec. 4.
Gem setting. J. Pejchar. 1,476,462; Dec. 4.
Generator: *See*—
Acetylene-gas generator. Electric generator.
Glare screen. A. and H. McPhaill. 1,476,002; Dec. 4.
Glass in pots, Melting. F. E. Troutman and C. H. Christie. 1,476,431; Dec. 4.
Glass-melting-pot furnace. F. E. Troutman and C. H. Christie. 1,476,432; Dec. 4.
Gopher trap. R. C. Lutz. 1,476,529; Dec. 4.
Governor cam-shaft brake. K. R. Manville. 1,476,454; Dec. 4.
Grademeter. A. T. Hespe. 1,476,076; Dec. 4.
Grader. E. Aho. 1,476,031; Dec. 4.
Grate and system, Screening-burning. E. F. Senglaup. 1,476,186; Dec. 4.
Grate, Furnace. H. B. Holt. 1,476,337; Dec. 4.
Grinding wheel. B. F. Howard. 1,476,515; Dec. 4.
Gun carriages, Traveling lock for. B. P. Joyce. 1,475,952; Dec. 4.
Hair curler. H. L. Skinner. 1,476,189; Dec. 4.
Hair waver. W. E. and E. G. Phillips and A. R. Thomson. 1,476,176; Dec. 4.
Haircutter, Adjustable safety. M. M. Sellers. 1,476,672; Dec. 4.
Hairpin blanks and the like, Machine for feeding and pointing. E. R. Person. 1,476,416; Dec. 4.
Hammer. C. F. Schroeder and A. A. Quedensley. 1,475,969; Dec. 4.
Hammer, Rotary pivoted. H. M. Plaisted. 1,476,177; Dec. 4.
Hand tool. S. F. Anderson. 1,476,033; Dec. 4.
Hanger: *See*—
Cable hanger. Swing hanger.
Pipe hanger.
Harrow. G. C. Heston. 1,476,512; Dec. 4.
Harvesters, Cutting mechanism for. M. M. Kell. 1,476,521; Dec. 4.
Hats, Sweatband for. W. W. Collyer. 1,476,492; Dec. 4.
Headlight-adjusting mechanism. W. A. Martin and H. Kegel. 1,476,630; Dec. 4.
Headlight, Automobile. R. Meisner and F. A. Roe. 1,476,631; Dec. 4.
Headlight, Dirigible. B. B. and T. C. Tabor. 1,476,656; Dec. 4.
Headlights for automobiles, Swinging. C. L. Lovering. 1,476,452; Dec. 4.
Heater: *See*—
Electric heater. Electric water heater.
Heating apparatus. A. M. Mertzanoff. 1,476,165; Dec. 4.
Heating system. F. Clare. 1,475,984; Dec. 4.
Heating system. J. A. Dion. 1,476,441; Dec. 4.
Heel press. F. V. Hart. 1,475,947; Dec. 4.
Heel, Resilient. J. W. Aymar, jr. 1,476,436; Dec. 4.
Heels, Machine for turning wood. W. J. Shaw. 1,476,188; Dec. 4.
Heels, Method of and machinery for handling. F. V. Hart. 1,475,948; Dec. 4.
Hide stretching, ensuppling, and trimming machine. Haired and unhaired. T. Pernin and J., dit G., Klotz. 1,476,217; Dec. 4.
Hinged closure. E. A. Hill. 1,476,202; Dec. 4.
Hoisting machine. T. S. Miller. 1,476,535; Dec. 4.
Hook. E. and C. Luebke. 1,476,627; Dec. 4.
Hose clamp. W. V. Thompson. 1,476,024; Dec. 4.
Hose coupling. J. R. Van Nagell. 1,476,119; Dec. 4.
Hydrocarbons from higher-boiling hydrocarbons, Process of and apparatus for the manufacture of lower-boiling. A. M. McAfee. 1,476,091; Dec. 4.

Hydrogen, Adding. C. Ellis. 1,476,330; Dec. 4.
Ice-cream box, Brick. W. L. Wright. 1,476,563; Dec. 4.
Ice-cream cones, Apparatus for the manufacture of. A. J. Walker. 1,476,122; Dec. 4.
Ice-making apparatus, Method of and means for agitating water in. B. Reynolds. 1,476,220; Dec. 4.
Igniter, Burner. P. C. Hass. 1,476,201; Dec. 4.
Ignition apparatus. A. A. Kent. 1,476,522; Dec. 4.
Ignition systems, Wiring for. R. N. Baughn and J. E. Fulmer. 1,476,577; Dec. 4.
Incinerator. C. C. Christensen and R. McCalpin. 1,476,490; Dec. 4.
Indicating organs, Device for transmitting positions of. E. Roučka. 1,476,183; Dec. 4.
Indicator: *See*—
Liquid-level indicator.
Indicator. A. White. 1,476,385; Dec. 4.
Indicators at a distance, Electrical apparatus for controlling. J. C. Needham. 1,476,538; Dec. 4.
Ingot feeder, Automatic. H. Krautblatt. 1,476,086; Dec. 4.
Inhaler. H. B. Dismond. 1,476,194; Dec. 4.
Ink eradicator. T. W. Cappon. 1,475,932; Dec. 4.
Insect destroyer. A. J. Strickland. 1,476,655; Dec. 4.
Internal-combustion engine. L. Blackmore. 1,475,927; Dec. 4.
Internal-combustion engine. F. S. Duesenberg. 1,476,327; Dec. 4.
Internal-combustion engine. C. A. Ross. 1,476,547; Dec. 4.
Internal-combustion engine. C. J. Tóth. 1,476,305–9; Dec. 4.
Internal-combustion engine. R. Wishon. 1,476,275; Dec. 4.
Investment material. A. M. McIntosh. 1,476,001; Dec. 4.
Iron: *See*—
Sadiron.
Ironing board and stepladder, Combined. P. Woss. 1,476,561; Dec. 4.
Irons, Support for the cords of electric. M. J. Davis. 1,476,395; Dec. 4.
Jack: *See*—
Automobile jack. Lifting jack.
Jug. G. E. Curtiss. Des. 63,396; Dec. 4.
Key holder. D. I. Reiter. 1,476,642; Dec. 4.
Kilns, Pipe system for. F. M. Creighton and C. J. Williams, jr. 1,476,595; Dec. 4.
Knife. H. H. Doehler and M. Stern. 1,476,030; Dec. 4.
Knife, Surgeon's. N. Seaholm. 1,476,185; Dec. 4.
Knives, Lock and guard for. W. F. Watson. 1,476,123; Dec. 4.
Knitting machines, Yarn-controlling mechanism for spring-needle. F. E. Jones. 1,476,518; Dec. 4.
Labeling machine. C. H. Nitsch and W. A. Weightman. 1,476,636; Dec. 4.
Lacing, Shoe. T. W. Miller. 1,476,348; Dec. 4.
Laminated springs, Casing for. J. Zulich. 1,476,568; Dec. 4.
Lamp. M. E. Bishop. Des. 63,388; Dec. 4.
Lamp, Projection. I. Cohen. 1,476,149; Dec. 4.
Lamp shade. E. H. Strauss. 1,476,190; Dec. 4.
Lamp standard. A. Steffen. Des. 63,441; Dec. 4.
Lamps, Means for controlling the light rays of reflector. A. C. Wood. 1,476,132; Dec. 4.
Lantern. F. W. Van Duyn. 1,476,117; Dec. 4.
Lantern, Railway signal. R. B. Benjamin. 1,476,037; Dec. 4.
Lapping machine. H. A. Erickson. 1,475,990; Dec. 4.
Last, Block. G. B. Fitz. 1,475,943; Dec. 4.
Lathe and taper-cutting means for the same. G. D. Sundstrand. 1,476,114; Dec. 4.
Lathes, Movable tool holder for. W. F. Marshall. 1,476,262; Dec. 4.
Lavatory. L. Schlesinger. 1,476,471; Dec. 4.
Letters, documents, or other sheets or papers, File or binder for. L. Liddell. 1,476,088; Dec. 4.
License plate. J. W. Baxter. 1,476,580; Dec. 4.
Life-saving apparatus. F. W. Atwell. 1,476,387; Dec. 4.
Lifting jack. J. A. Morrison. 1,476,096; Dec. 4.
Lighting-fixture arm. N. Lipsky. Des. 63,403; Dec. 4.
Lighting-fixture bracket. N. Lipsky. Des. 63,404; Dec. 4.
Line, Network for neutralizing the susceptance of a loaded. R. S. Hoyt. 1,475,997; Dec. 4.
Liquid fuel, Burner for thorough combustion of. E. Becker. 1,476,136; Dec. 4.
Liquid-level indicator. T. M. Feder. 1,476,289; Dec. 4.
Liquids, Apparatus for dispensing. J. W. MacDonald. 1,476,408; Dec. 4.
Liquids, Apparatus for exchanging the heat of. F. Duvieusart. 1,476,061; Dec. 4.
Lock: *See*—
Door lock. Sash lock.
Elevator-door lock.
Lock and key, Combination. E. E. Raush. 1,476,370; Dec. 4.
Locomotive superheater. M. M. Crowley. 1,476,150; Dec. 4.
Logarithmical graduations, Slide rule with. P. Jaray. 1,475,999; Dec. 4.
Looms, Checkstrap holder for. W. F. Sink and G. W. Chaney. 1,476,427; Dec. 4.
Looms, Filling-control mechanism for. G. B. Ambler. 1,476,480; Dec. 4.
Looms, Shuttle-box tension-controlling mechanism for. C. H. Draper. 1,476,442–3; Dec. 4.
Lubricating apparatus. O. Zerk. 1,475,980; Dec. 4.
Lubricator. F. M. Roby. 1,476,466; Dec. 4.
Machine for feeding and distributing containers. M. F. Phelps. 1,476,023; Dec. 4.
Manifold, Hot-spot. R. W. A. Brewer. 1,476,281; Dec. 4.
Map holder, Automobile road-. H. Kelly. 1,476,256; Dec. 4.
Marker. E. P. McOlvin. 1,476,629; Dec. 4.
Match box. W. Z. Musgrave. 1,476,633; Dec. 4.
Material-handling machine. C. H. Shook. 1,476,375; Dec. 4.
Measuring and cutting machine. J. F. Wiesner. 1,476,664; Dec. 4.
Measuring surface areas, Machine for. H. Thun. 1,476,428; Dec. 4.
Merry-go-round. G. M. Rengen. 1,476,180; Dec. 4.
Mica sheets, Optical selection of split. G. W. Pickard and J. Barth. 1,476,102; Dec. 4.
Milk-can ventilator. O. T. Larson. 1,476,300; Dec. 4.
Mill. M. B. McFeely. 1,476,260; Dec. 4.
Mineral-washing plant. A. France. 1,476,243; Dec. 4.
Mines, Method of and means for extinguishing or suffocating explosions in. H. Kruskopf. 1,476,624; Dec. 4.
Mixer: *See*—
Gas mixer.
Mixer and feeder. R. L. Cook. 1,476,493; Dec. 4.
Molding. E. H. Hart. 1,476,509; Dec. 4.
Molding machine. E. O. Beardsley and W. F. Piper. 1,476,134–5; Dec. 4.
Molding machine. F. T. Dickinson. 1,476,056; Dec. 4.
Mop. W. H. Zackry. 1,476,317–18; Dec. 4.
Mop, Sanitary broom. M. B. Dickson. 1,476,396; Dec. 4.
Mopstick. N. C. Hall. 1,476,400; Dec. 4.
Motor. J. C. Osher. 1,476,005; Dec. 4.
Motor construction. J. D. Nies. 1,476,412; Dec. 4.
Motor cycles and like vehicles, Spring suspension device for. G. F. Shepherd. 1,476,651; Dec. 4.
Motors, Fan structure for air-cooled. J. Bilan. 1,476,137; Dec. 4.
Motors, Sparking device for internal-combustion. A. C. Hempel. 1,476,252; Dec. 4.
Mud boot, Emergency. C. Dabney. 1,476,597; Dec. 4.
Muriatic-acid tank, Transportable. J. M. Rowland. 1,476,421; Dec. 4.
Music roll and apparatus for making same. J. A. Fisher. 1,476,358; Dec. 4.
Needles, Guide and adjuster for looper. A. L. Traver. 1,476,659; Dec. 4.
Nozzle, Dishwasher. B. B. Lipsner and P. Sporer 1,476,090; Dec. 4.
Nozzle, Hydraulic. W. L. Parker and E. C. Hutchinson. 1,476,368; Dec. 4.
Oil bearing raw material, Preservation and preparation for transportation of. A. W. MacIlwaine. 1,476,531; Dec. 4.
Oil can. J. B. Agnew, sr. 1,476,668; Dec. 4.
Oil can. G. Lidseen. 1,476,365; Dec. 4.
Oil gauge. A. A. Ashworth and R. V. Quick. 1,476,321; Dec. 4.
Optical demonstrating apparatus. A. E. Kintner. 1,476,621; Dec. 4.
Ores and materials therefor, Flotation of. E. W. McCullough and R. E. Wilson. 1,476,530; Dec. 4.
Oven, By-product coke. Z. H. Kevorkian. 1,476,524; Dec. 4.
Ovens, Thermostat for. A. G. Siebenlist. 1,476,377; Dec. 4.
Package tie. J. A. Kaye. 1,476,520; Dec. 4.
Packaging articles. E. H. Angier. 1,476,319; Dec. 4.
Packaging machine. L. L. Salfishberg. 1,476,222; Dec. 4.
Pan: *See*—
Dry pan. Vacuum pan.
Paper-cutting machine. T. C. Dexter. 1,476,155; Dec. 4.
Paper-dish blank. W. A. Green. 1,476,298; Dec. 4.
Paper-fastening device. R. H. Romig. 1,476,420; Dec. 4.
Paper material and the like grease and water proof, Rendering. W. L. Wright. 1,476,562; Dec. 4.
Paper trimmer. E. W. Beeler. 1,476,234; Dec. 4.
Peanut butter and making same. H. C. Schad. 1,476,649; Dec. 4.
Peat-fuel machine. A. McDougall. 1,476,407; Dec. 4.
Pedal-extension attachment. L. A. Mead. 1,476,094; Dec. 4.
Peeling and washing machine, Potato. S. Roylance. 1,476,221; Dec. 4.
Pen attachment, Fountain. J. M. Beadles. 1,476,582; Dec. 4.
Pen, Fountain. T. E. Rudderham. 1,476,107; Dec. 4.
Pen, Self-filling fountain. D. Klein. 1,475,954; Dec. 4.
Pens, Lever for self-filler fountain. D. Klein. 1,475,953; Dec. 4.
Perforator, Hand. H. Swanson. 1,476,272–3; Dec. 4.
Phonograph cabinet. R. C. Aimone. Des. 63,386–7; Dec. 4.
Phonograph-record matrix and method and apparatus for producing same. J. T. Daniels. 1,475,937; Dec. 4.
Phonographs, Controlling device for. M. Adair. 1,476,277; Dec. 4.

Phonographs, or the like, Cabinet for. P. Della Torre. 1,475,556; Dec. 4.
Photograph-printing machine. P. Anderson. 1,476,574; Dec. 4.
Photographic films, Apparatus for ruling. I. Kitsee. 1,476,206; Dec. 4.
Photoprint-washing machine. F. W. Sholes. 1,476,425; Dec. 4.
Pianofortes and like stringed musical instruments, Bridge for. J. G. Jones. 1,476,014; Dec. 4.
Pianos, Pneumatic player action for. P. Oesterreicher. 1,476,459; Dec. 4.
Picture machines, Automatic stop for motion-. M. E. Phimister. 1,476,006; Dec. 4.
Picture-projecting apparatus. M. Klaiber. 1,476,017; Dec. 4.
Picture-record tinting apparatus, Motion-. F. J. Bulask. 1,476,670; Dec. 4.
Pile and making it, Protected. F. F. Beeby. 1,476,584; Dec. 4.
Pipe hanger. H. W. Skinner. 1,476,473; Dec. 4.
Pistol, Target. H. Wesson and E. S. Pomeroy. 1,476,125; Dec. 4.
Piston ring. P. Tawney. 1,476,657; Dec. 4.
Placard. H. V. Marsh and H. J. Stephens. 1,475,958; Dec. 4.
Plant, Drying. O. Nordström. 1,476,637; Dec. 4.
Plaque. E. A. De Lan. Des. 63,397; Dec. 4.
Plaster board, Apparatus for handling freshly-formed sections of. G. A. Buttress. 1,476,055; Dec. 4.
Plug and socket extension unit, Electrical. G. H. Bowen. 1,476,586; Dec. 4.
Polish-rod adjuster head. S. B. Sargent. 1,476,469; Dec. 4.
Polish rods and the like, Grip for. S. B. Sargent. 1,476,468; Dec. 4.
Powder can, Talcum-. F. J. de S. Coty. Des. 63,395; Dec. 4.
Power stand. R. L. Lee. 1,476,450; Dec. 4.
Power transmission. H. J. Murray. 1,476,458; Dec. 4.
Power-transmission control. E. M. Fraser. 1,476,291; Dec. 4.
Power-transmitting mechanism. L. P. Moores. 1,476,675; Dec. 4.
Press: *See*—
  Heel press.
Presser-foot mechanism. O. T. Peterson and E. C. Leach. 1,476,101; Dec. 4.
Presses, Bed for cylinder. A. F. Osterlind. 1,475,963; Dec. 4.
Pressure gauge. W. A. De Wolfe. 1,476,154; Dec. 4.
Prime movers, especially for steam turbines, Safety device for. W. Pape. 1,476,100; Dec. 4.
Printing and machine therefor. R. G. Jackson. 1,476,516; Dec. 4.
Printing machine. E. Grosse. 1,476,072; Dec. 4.
Psychic instrument. G. C. Haffner. 1,476,158; Dec. 4.
Pulleys from shafts, Device for removing. W. S. Weston. 1,476,128; Dec. 4.
Pulp-stone-dressing bur. C. B. and F. W. Alkin. 1,476,571; Dec. 4.
Pump. W. Dickens. 1,476,600; Dec. 4.
Pump. V. H. Dalm. 1,476,020; Dec. 4.
Pump, Deep-well. W. E. Ellis. 1,476,444; Dec. 4.
Pump, High-vacua. R. Berrenberg. 1,476,482; Dec. 4.
Pump, Hydraulic. L. F. Moody. 1,476,210; Dec. 4.
Pump, Lubricant. C. H. Scott. 1,476,227; Dec. 4.
Pumps and the like, Automatic control for. P. K. Lindsay. 1,476,406; Dec. 4.
Pumps, Means for priming. H. M. Havens. 1,475,994; Dec. 4.
Punching machine. W. H. D'Ardenne. 1,476,669; Dec. 4.
Push-button switch. G. T. Griffin. 1,476,506; Dec. 4.
Putty. R. T. Williams. 1,476,127; Dec. 4.
Pyrometer, Optical. R. P. Brown and C. P. Frey. 1,476,486; Dec. 4.
Rack: *See*—
  Towel rack.
Racks or trays, Connecter for ventilating. E. A. Downey, and D. McEwan. 1,476,397; Dec. 4.
Radiofrequency device. H. P. Donle. 1,476,156; Dec. 4.
Radiosignaling call system. D. K. Martin. 1,476,003; Dec. 4.
Rail anchor. P. W. Moore. 1,476,410; Dec. 4.
Rail clamp, Side-. J. W. Dandridge and G. Hance. 1,476,598; Dec. 4.
Railway switch. J. A. Dougher. 1,476,060; Dec. 4.
Railway tie, Metallic. G. Press. 1,476,641; Dec. 4.
Razor blades, Method of and container for storing used safety-. J. J. Hechmer. 1,476,401; Dec. 4.
Razor holder. W. Dubilier and W. S. Mountford. 1,475,940; Dec. 4.
Razor-hone holder. F. J. Mirgon. 1,476,268; Dec. 4.
Razor, Safety. C. L. Horning. 1,475,949; Dec. 4.
Reading machine. B. A. Fiske. 1,476,290; Dec. 4.
Refrigerating food cabinet. J. R. Replogle. 1,476,546; Dec. 4.
Refrigerator and cheese cutter, Combined. W. H. Harden. 1,476,608; Dec. 4.
Register-operating means. W. M. Tulley. 1,476,558; Dec. 4.
Resaws, Board-feeding device for. C. Johnson. 1,475,950; Dec. 4.
Resilient wheel. A. A. Gietzelt. 1,476,200; Dec. 4.
Resilient wheel. B. F. Seymour. 1,476,187; Dec. 4.
Rim, Demountable. C. G. Lundstrom. 1,476,528; Dec. 4.
Rim wrench, Demountable-. J. B. Drabonovsky. 1,476,058; Dec. 4.
Rims, Shim plate for demountable. H. J. Hick. 1,476,011; Dec. 4.
Ring: *See*—
  Brake ring. Piston ring.
  Curtain ring.
Road-crossing signal. P. A. Johnson. 1,476,403; Dec. 4.
Road-working apparatus. J. J. Martin. 1,476,263; Dec. 4.
Rods, Machine for milling. A. R. Fors. 1,476,066; Dec. 4.
Röntgen images against secondary rays, Grid for protecting. G. Bucky. 1,476,048; Dec. 4.
Rounding machine. C. C. Blake. 1,476,040; Dec. 4.
Rubber coatings, Electrodeposition of. S. E. Sheppard and L. W. Eberlin. 1,476,374; Dec. 4.
Rubber heel. W. Enoch. 1,476,288; Dec. 4.
Rules, Machine for casting column. H. C. Gammeter. 1,476,503; Dec. 4.
Sadiron. H. C. Downey. 1,476,057; Dec. 4.
Safety device. H. E. Iskow. 1,475,998; Dec. 4.
Sand-blast machine. I. M. Kemp and E. C. Wiederhold. 1,476,619; Dec. 4.
Sand cores, Method of and means for making and setting green-. W. J. Gilmore. 1,476,069; Dec. 4.
Sand molds, Method and apparatus for forming. C. W. Coleman. 1,475,935; Dec. 4.
Sand-reel-operating mechanism. R. W. Sage and H. R. Boughner. 1,476,648; Dec. 4.
Sash lock. H. A. Roy. 1,476,646; Dec. 4.
Saws, Indicator for edging. S. M. Bump. 1,476,238; Dec. 4.
Scaffolding bracket. E. B. Rex. 1,476,644; Dec. 4.
Scale. H. Cameron. 1,475,930; Dec. 4.
Scoop, Excavating. G. E. Wagner and R. R. and R. M. Downie. 1,476,121; Dec. 4.
Screen: *See*—
  Automobile screen. Window screen.
  Glare screen.
Screw driver. J. R. Stanton. 1,476,653; Dec. 4.
Sealing device. L. D. Burlingham. 1,476,140; Dec. 4.
Self-locking frame. W. B. Renner. 1,476,643; Dec. 4.
Separating device. T. M. Coffman. 1,475,985; Dec. 4.
Separator: *See*—
  Egg separator.
Sewing machine, Loop-. A. L. Traver. 1,476,658; Dec. 4.
Shade and awning, Combined window. E. Poulsen. 1,476,464; Dec. 4.
Shade and curtain clamp, Door and window. M. J. Manahan. 1,476,164; Dec. 4.
Shade and curtain hanger, Combined adjustable. M. L. Moore. 1,476,349; Dec. 4.
Shade-roller fixture, Window. C. W. Kirsch. 1,476,160; Dec. 4.
Shaft-locking means. W. T. Barker. 1,476,437; Dec. 4.
Sharpener, Plowshare. O. O. Moen. F. T. Gronnold, and A. M. Call. 1,476,209; Dec. 4.
Sheet-form material, Machine for cutting. C. B. Gray. 1,476,246; Dec. 4.
Shell-timing device. A. Streicher. 1,476,552; Dec. 4.
Shipping case and display stand. A. C. Stahfert. 1,476,474; Dec. 4.
Shirt. W. A. Scott, jr. 1,476,548; Dec. 4.
Shock absorber. E. W. Ackerman. 1,476,352; Dec. 4.
Shock absorber. W. A. Anglemeyer. 1,476,320; Dec. 4.
Shock absorber. R. H. Hassler. 1,476,609; Dec. 4.
Shock absorber. R. L. Naugle. 1,476,212; Dec. 4.
Shoe-finishing machine. S. A. Dobyne. 1,476,195–6; Dec. 4.
Shoe-polishing kit. L. J. Foreman. 1,476,604; Dec. 4.
Sifter, Ash. A. Samsel. 1,476,225; Dec. 4.
Sign, Illuminated. C. West. 1,475,977; Dec. 4.
Signal: *See*—
  Direction signal. Road-crossing signal.
Signal. H. Hafer. 1,475,946; Dec. 4.
Sizing tool. G. W. Benedict. 1,476,035; Dec. 4.
Skate roll, Roller-. A. L. Staples. 1,476,550; Dec. 4.
Slide-valve internal-combustion engine. E. A. Ford. 1,476,359; Dec. 4.
Sluice box. F. S. Morgan. 1,476,169; Dec. 4.
Smoker's stand. J. Muller. Des. 63,429; Dec. 4.
Snow guard. A. W. Campbell. 1,475,931; Dec. 4.
Sorting machine. W. W. Lasker. 1,476,161; Dec. 4.
Sound-cut-off device. T. F. Rose, jr. 1,476,301; Dec. 4.
Spark plug. L. F. Reynolds and J. S. Stewart. 1,476,350; Dec. 4.
Spark-plug cleaner, Sand-blast. C. Hanson. 1,475,992; Dec. 4.
Spark plugs, Electrical connecter for. J. and L. B. Berge. 1,476,028; Dec. 4.
Spigot. A. B. Lewis and W. J. Taggart. 1,476,527; Dec. 4.
Spindle, Cheese-winding. W. H. Sutton. 1,476,271; Dec. 4.
Spoon or analogous article. H. E. Nock. Des. 63,430–2; Dec. 4.
Spout, Pouring. V. Dieu. 1,475,988; Dec. 4.
Spraying device. J. F. Lemons. 1,475,957; Dec. 4.
Spring: *See*—
  Upholstery spring.

Springs, Tool for compressing and clamping. W. W. Prymek. 1,476,540; Dec. 4.
Stand: *See*—
  Power stand. Umbrella stand.
Steam boilers, Setting of. G. H. Bowden. 1,476,236; Dec. 4.
Steerin.: gear, Vehicle. J. Froelich. 1,476,068; Dec. 4.
Steering mechanism. H. C. V. Poulsen. 1,476,104; Dec. 4.
Steering wheel. F. L. Cantrall. 1,476,145; Dec. 4.
Steering wheel. W. C. Rastetter. 1,476,543; Dec. 4.
Steering-wheel construction. W. C. Rastetter. 1,476,544; Dec. 4.
Steering-wheel construction. W. C. Rastetter. 1,476,673; Dec. 4.
Steering-wheel driving mechanism. A. E. Osborn. 1,476,173; Dec. 4.
Steering wheel mechanism. A. E. Bronson. 1,475,928; Dec. 4.
Stile-horning machine. J. T. Williams. 1,476,666; Dec. 4.
Stock-watering apparatus. F. L. Morgan. 1,476,095; Dec. 4.
Stocking and making same. G. P. Bosworth. 1,476,042–3; Dec. 4.
Stove, Gas. S. I. Pedigo. 1,476,269; Dec. 4.
String instruments, Bow for. C. E. Matha. 1,476,163; Dec. 4.
Stropping machine. R. P. Cummings. 1,476,151; Dec. 4.
Structural element. W. M. Janpole. 1,476,078; Dec. 4.
Sugar, Crystallization of. E. Delafond. 1,476,153; Dec. 4.
Sugar from sugar-cane mud, Recovery of. E. Delafond. 1,476,152; Dec. 4.
Sugar refining and manufacturing. R. D. Elliott. 1,476,242; Dec. 4.
Sulphur, Recovery and refining of. C. S. Robinson. 1,476,645; Dec. 4.
Superphosphate process, Double. H. H. Meyers. 1,475,959; Dec. 4.
Surgical instrument for chiropodists and the like. W. Hart. 1,476,508; Dec. 4.
Swing hanger. C. W. Birch. 1,476,038; Dec. 4.
Switch: *See*—
  Automatic switch. Push-button switch.
  Electric switch. Railway switch.
Swivel, Hydraulic. H. M. Harris and V. W. Zilen. 1,475,993; Dec. 4.
Syringe, Hypodermic. F. L. Platt, G. N. Hein, and R. R. Impey. 1,476,103; Dec. 4.
Table: *See*—
  File-cutting table.
Table and utensil carrier, Combination camp. E. L. Calvert. 1,476,144; Dec. 4.
Talking-machine records, Resurfacing. E. T. Halls. 1,476,507; Dec. 4.
Tank closure. A. M. Yocom. 1,476,566; Dec. 4.
Taper gauge. W. A. Allen. 1,476,573; Dec. 4.
Teeter board. W. A. Flint. 1,476,065; Dec. 4.
Telegraph system, Single-transmission. W. A. Cushing. 1,475,987; Dec. 4.
Telephone-receiver attachment. J. Mirzejewski. 1,476,409; Dec. 4.
Temperature indicator, Signaling motor-. H. R. Mitchell. 1,476,167; Dec. 4.
Textile fabric. J. S. Boyd. Des. 63,389–94; Dec. 4.
Textile fabric. C. E. Lord. Des. 63,405–28; Dec. 4
Textile fabrics, Apparatus for drying and carbonizing. P. Glennie. 1,476,362; Dec. 4.
Therapeutic cabinet. H. C. Osborn. 1,476,460; Dec. 4.
Thermodynamic switch. J. W. Phelps. 1,476,022; Dec. 4.
Thrashing device. H. R. Tucker. 1,476,660; Dec. 4.
Threaded structure. C. P. Marye. 1,476,455; Dec. 4.
Threadless bolt. J. G. Coles. 1,476,491; Dec. 4.
Ticket, Pin. A. K. Marsh. 1,476,533; Dec. 4.
Tie: *See*—
  Package tie. Railway tie.
Tile-cutting table, Automatic. N. Allen. 1,476,479; Dec. 4.
Tiling target. W. C. Treloar. 1,476,430; Dec. 4.
Tire and making the same, Pneumatic. H. L. Trumbull. 1,476,381; Dec. 4.
Tire casings, Method of and apparatus for making. F. B. Converse. 1,476,325; Dec. 4.
Tire holder, Automobile. R. C. Baxter, E. F. Galloway, and H. E. Gray. 1,476,581; Dec. 4.
Tire, Suspension. F. W. Adsit. 1,475,925; Dec. 4.
Tire tool, Automobile. F. Thomas. 1,476,475; Dec. 4.
Tires, Inner tube for pneumatic. M. E. Simes. 1,476,111; Dec. 4.
Toaster. H. S. Murray. 1,476,171; Dec. 4.
Toaster, Electric. L. H. Wilkinson. 1,476,129; Dec. 4.
Tobacco container and match receptacle. H. D. Fleming, L. F. Matthews, and E. C. Fleming. 1,476,332; Dec. 4.
Tobacco-stripping table. L. C. Edwards. 1,476,240; Dec. 4.
Tool. I. F. Rude. 1,476,007; Dec. 4.
Tool handle. M. S. Neal. 1,475,961; Dec. 4.
Tool, Rim. J. P. Giles. 1,476,245; Dec. 4.
Tools, Locking device for. A. C. Hoffman. 1,476,446; Dec. 4.
Toothbrush. H. Barnes. 1,476,579; Dec. 4.
Toothbrush. W. and H. Karl. 1,476,519; Dec. 4.
Toothpick receptacle, Sanitary. A. F. Engierth. 1,476,063; Dec. 4.
Towel rack. A. A. Banks. 1,476,034; Dec. 4.
Towel rack. W. H. Bauck. 1,476,027; Dec. 4.
Towing device. J. W. Osborn. 1,476,638; Dec. 4.
Toy balloon. J. J. Guinter. Des. 63,399; Dec. 4.
Toy, Figure wheeled. J. A. Gazda. 1,476,199; Dec. 4.
Toy pistol. W. F. Schmidt. 1,476,109; Dec. 4.
Toy vehicle. A. C. Gilbert. 1,476,294–5; Dec. 4.
Tractors and trailers, Coupling for. M. Ozimek. 1,475,964; Dec. 4.
Tractors, Draft rigging for. M. A. Rumsky. 1,476,647; Dec. 4.
Transformer. R. V. Bhgay. 1,476,138; Dec. 4.
Transformer. L. C. Nichols. 1,476,172; Dec. 4.
Trap: *See*—
  Gopher trap.
Tray, Compartment. C. C. Casey. 1,475,983; Dec. 4.
Trimmer: *See*—
  Paper trimmer.
Trousers-stretching frame. E. Van Sicklen. 1,476,310; Dec. 4.
Truck-body-dumping mechanism. G. R. Couls. 1,475,936; Dec. 4.
Tube-closing machine, Collapsible-. I. W. Wepplo. 1,476,124; Dec. 4.
Tube for conducting a cooling fluid between two refrigerator vats, Flexible. F. Kroch. 1,476,258; Dec. 4.
Tube systems, Carrier for pneumatic-dispatch-. E. R. Gippert. 1,476,070; Dec. 4.
Tubes, Apparatus for manufacturing. J. W. Moon. 1,476,537; Dec. 4.
Tubes, Manufacturing. J. W. Moon. 1,476,632; Dec. 4.
Turbine, Water. A. Peterson. 1,475,966; Dec. 4.
Turbine, Water. E. Suess. 1,476,229; Dec. 4.
Turbines, Means for fastening the blades of steam and gas. F. Lösel. 1,476,626; Dec. 4.
Twin-cylinder two-stroke internal-combustion engine. D. Stanger. 1,476,351; Dec. 4.
Twist drills and similar tools, Mold for the casting on of shafts for. A. F. Drössel. 1,476,287; Dec. 4.
Two-circuit or three-heat push-through switch. I. R. Seltzer. 1,476,373; Dec. 4.
Typewriting machine. E. B. Hess. 1,476,511; Dec. 4.
Umbrella stand. G. De Witt. 1,476,599; Dec. 4.
Upholstery spring. F. J. Brandel and F. H. Richert. 1,476,046; Dec. 4.
Uppers over lasts, Machine for working. E. A. Stiggins. 1,475,972; Dec. 4.
V-block work holder or drill. G. H. Hines. 1,476,611; Dec. 4.
Vacuum cleaning device. W. V. Orr. 1,476,004; Dec. 4.
Vacuum pan. G. Engel, sr. 1,476,331; Dec. 4.
Valve. F. R. McGee and A. R. Schulze. 1,476,344; Dec. 4.
Valve. A. H. Meyer. 1,476,534; Dec. 4.
Valve-actuating mechanism. J. B. Haskell. 1,476,510; Dec. 4.
Valve-bag closure. F. Witmer. 1,476,560; Dec. 4.
Valve cap. P. G. Cole. 1,476,054; Dec. 4.
Valve, Check. J. Twardowsky. 1,476,383; Dec. 4.
Valve control for Diesel engines. A. Warenskjold. 1,476,312; Dec. 4.
Valve, Float. N. S. Black. 1,476,029; Dec. 4.
Valve for low-water safety telltales, Thermally-controlled. G. A. Sager. 1,476,422; Dec. 4.
Valve, Fuel-supply. R. M. Hvid. 1,476,012; Dec. 4.
Valve structure. E. P. Hewitt. 1,476,253; Dec. 4.
Valve, Vacuum relief and back-pressure. R. W. Jones. 1,476,618; Dec. 4.
Vanity case. O. J. Cathcart. 1,476,282; Dec. 4.
Vehicle brake. D. J. Boatsman. 1,476,439; Dec. 4.
Vehicle brake. J. H. Pashia. 1,476,415; Dec. 4.
Vehicle brake. R. A. Whittingham. 1,476,314; Dec. 4.
Vehicle buffer. G. A. Lyon. 1,476,342; Dec. 4.
Vehicle, Camping. H. A. Cress, jr. 1,476,239; Dec. 4.
Vehicle frame and spring suspension. W. C. Durant. 1,475,941; Dec. 4.
Vehicle lifting device. J. V. Cullen. 1,476,596; Dec. 4.
Vehicle, Motor. A. J. Borst, jr. 1,476,355; Dec. 4.
Vehicle, Motor road. A. A. Holle. 1,476,447; Dec. 4.
Vehicle seats, Spring mounting of. F. H. Headley. 1,476,674; Dec. 4.
Vehicle spring shackle and means for lubricating same. W. H. Brown. 1,476,440; Dec. 4.
Vehicle wheels, Antislip device for motor. R. M. Babbitt. 1,476,353; Dec. 4.
Vehicles and other vehicles, Folding hood for motor road. G. H. Wenham. 1,476,313; Dec. 4.
Vehicles, Attachment for motor. M. P. Will. 1,476,665; Dec. 4.
Vehicles, Brake apparatus for motor. F. H. Morlan. 1,476,170; Dec. 4.
Vehicles, Buffer for motor. G. A. Lyon. 1,476,343; Dec. 4.
Vehicles, Driving axle for motor. F. S. Duesenberg. 1,476,329; Dec. 4.
Vehicles, Fender for. R. S. Blair. 1,476,039; Dec. 4.
Vehicles, Front direction signal for motor. A. E. Sparrow. Des. 63,440; Dec. 4.
Vehicles, Overhead catenary suspension construction for transmitting electricity to. J. I. Comly. 1,476,052; Dec. 4.
Vehicles, Sanding mechanism for motor. T. J. Brooks. 1,476,588; Dec. 4.
Vending machine. R. E. Meader. 1,476,266; Dec. 4.
Vending machine, Coin-controlled. H. Giles. 1,476,361; Dec. 4.

Veneer board and making same. F. W. Adams. 1,476,570; Dec. 4.
Ventilator: *See*—
Milk-can ventilator.
Veterinary instrument. J. Emonts. 1,476,500; Dec. 4.
Vitreous product and the manufacture thereof. P. B Crossley. Re15,727; Dec. 4.
Waistbelt. D. A. James. 1,476,517; Dec. 4.
Washing machine. C. B. Kavanaugh. 1,476,081; Dec. 4.
Washing machine. L. C. Porterfield. 1,476,178; Dec. 4.
Watch-holding device. H. Muir. 1,476,211; Dec. 4.
Watch, stem-winding and stem-setting. N. S. and S. Cooper. 1,476,494; Dec. 4.
Water-closet. P. Gandillon. 1,476,244; Dec. 4.
Water-closet, Siphon-action. S. C. Hill, J. M. Gibson, and J. E. Wright. 1,476,445; Dec. 4.
Water-power wheel. W. Miller. 1,476,457; Dec. 4.
Waterproofing process for textile fabrics, paper, and such materials. R. A. Grimoin-Sanson. 1,476,226; Dec. 4.
Well. J. N. Swanson. 1,476,554; Dec. 4.
Well-capping device. F. Sievern. 1,476,110; Dec. 4.
Well-drilling apparatus, Rope grip for. A. Premro. 1,476,218; Dec. 4.
Wheat, Treating garlicky. R. L. and J. H. Winters. 1,476,131; Dec. 4.
Wheel: *See*—
Automobile steering wheel.
Disk wheel.
Grinding wheel.
Resilient wheel.
Steering wheel.
Water-power wheel.
Wheel and runner or ski assembling device. A. Kégresse. 1,476,082; Dec. 4.
Wheel drive, Front and four. N. Norqual. 1,476,413; Dec. 4.
Wheelbarrow attachment. W. M. Newton. 1,476,635; Dec. 4.
Window, A. H. Nesheim. 1,476,098; Dec. 4.
Window attachment. J. K. Johnson. 1,476,617; Dec. 4.
Window screen. L. A. Yeager. 1,476,565; Dec. 4.
Window screen, Adjustable. F. S. Verdone. 1,476,661; Dec. 4.
Windmill attachment. J. P. Berger. 1,476,323; Dec. 4.
Windshields and the like, Cleaner for. F. B. Parker and H. R. Goodfellow. 1,476,174; Dec. 4.
Wire, Apparatus for and method of hardening or tempering. C. O. and C. D. Johnson. 1,476,448; Dec. 4.
Wire cutter, Hot-. H. B. Bush. 1,476,049; Dec. 4.
Wire-joining tool. S. F. Bauwens. 1,476,388; Dec. 4.
Wire rods, Manufacture of. J. R. George. 1,476,333; Dec. 4.
Wood, apparatus for defiberizing. G. Alcher and U. S. McMillan. 1,476,032; Dec. 4.
Wrappers, Sealing device for. J. B. Robbins. 1,476,419; Dec. 4.
Wrench: *See*—
Rim wrench.
Wrench. G. F. and F. L. LeBus. 1,476,341; Dec. 4.
Yarn carriers upon their supports, Means for locking. B. A. Peterson. 1,476,021; Dec. 4.

CLASSIFICATION OF PATENTS

ISSUED DECEMBER 4, 1923.

NOTE.—First number=class, second number=subclass, third number=patent number.

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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abraham & Straus, Inc., New York, N. Y. Sheets and pillowcases. 177,154; Dec. 11; Serial No. 182,279; published Sept. 18, 1923.

Abraham & Straus, Inc., New York, N. Y. Coffee. 177,155; Dec. 11; Serial No. 182,281; published Sept. 25, 1923.

Adamson, Charles E., doing business as Safetygas & Appliance Company, Wabash, Ind. Denatured alcohol. 177,200; Dec. 11; Serial No. 179,124; published Sept. 18, 1923.

Alb. & E. Henkels, Inc., New York, N. Y. Laces and upholstery goods. 177,062; Dec. 11; Serial No. 169,211; published Sept. 11, 1923.

Alb. & E. Henkels, Inc., New York, N. Y. Laces and upholstery goods. 177,261; Dec. 11; Serial No. 169,210; published Sept. 11, 1923.

Albers Bros. Milling Co., Seattle, Wash. Rolled oats, split peas, hominy, hominy grits, etc. 177,227; Dec. 11; Serial No. 175,753; published Sept. 25, 1923.

Albers Company, Incorporated, Richmond, Va. Cough sirup. 177,079; Dec. 11; Serial No. 184,048; published Sept. 18, 1923.

American Bakeries Co., Atlanta, Ga. Bread. 177,287; Dec. 11, 1923.

American Hominy Company, Chicago, Ill. Poultry feeds and mash. 177,195; Dec. 11; Serial No. 178,489; published Sept. 18, 1923.

American Products Company, The. (See Mills Brothers Company.)

American Stock Food Co., The, Blanchester, Ohio. Hog tonic and food. 177,211; Dec. 11; Serial No. 177,759; published Sept. 18, 1923.

Anaconda Copper Mining Company, New York, N. Y. Cast, drawn, rolled, extruded, pressed, and machined nonferrous metals and alloys and ingots, castings, etc. 176,956; Dec. 11; Serial No. 177,208; published Sept. 25, 1923.

Anderson, Chas., Wasco, Calif. Fresh grapes. 177,148; Dec. 11; Serial No. 182,898; published Sept. 25, 1923.

Anglo-American Mill Company. (See Sandefur, Charles O., assignor.)

Babcock, A. P., Co., New York, N. Y. Cold, face, vanishing, and cleansing creams, perfume, sachets, etc. 177,169; Dec. 11; Serial No. 181,237; published Sept. 18, 1923.

Ball, F. M., & Company, San Francisco, Calif. Canned deciduous fruits, vegetables, fruit salad, etc. 177,064; Dec. 11; Serial No. 174,879; published Sept. 18, 1923.

Bankers Discount Association, Astoria, Oreg. Canned salmon. 177,184; Dec. 11; Serial No. 180,830; published Sept. 25, 1923.

Barrington Packing Co., Barrington, Ill. Bacon. 177,102; Dec. 11; Serial No. 168,749; published Sept. 25, 1923.

Bartlett Corporation, The, Philadelphia, Pa. Castor oil. 177,160; Dec. 11; Serial No. 181,811; published Sept. 25, 1923.

Barva, Bernard R., Fort Wayne, Ind. Rubber heels for shoes. 177,017; Dec. 11; Serial No. 164,578; published Sept. 18, 1923.

Bausman Manufacturing Company, Bausman, Pa. Benches and settees. 177,290; Dec. 11.

Beech-Nut Packing Company, Canajoharie, N. Y. Cocoa, sugar, cereal breakfast food, wheat flour, etc. 177,140; Dec. 11; Serial No. 151,531; published Dec. 27, 1921.

Belle Mead Sweetsmakers, The, Trenton, N. J. Candy. 177,096; Dec. 11; Serial No. 171,148; published Mar. 27, 1923.

Bermejo, Juan, New York, N. Y. Plain and fancy cakes. 177,209; Dec. 11; Serial No. 177,582; published Sept. 18, 1923.

Beuchel, Bertha H., doing business as Beuchel Mfg. Co., St. Louis, Mo. Hair tonic and scalp ointment. 177,223; Dec. 11; Serial No. 176,158; published Sept. 18, 1923.

Bill, Bell & Co., Incorporated, Ogdensburg, N. Y. Wheat flour. 176,967; Dec. 11; Serial No. 179,178; published Sept. 25, 1923.

Birnbaum, Rosenbloom & Yellen, New York, N. Y. Infants' caps. 177,108; Dec. 11; Serial No. 173,696; published Sept. 18, 1923.

Bisleri, Felice, & C., Milan, Italy, and New York, N. Y. Medicinal bitters and general tonics. 177,130; Dec. 11; Serial No. 140,825; published Sept. 18, 1923.

Bittersweet Products Corporation, Yonkers, N. Y. Ice cream. 177,187; Dec. 11; Serial No. 180,579; published Sept. 25, 1923.

Blue Ribbon Battery Company, Indianapolis, Ind. Battery solutions. 176,984; Dec. 11; Serial No. 179,651; published Sept. 18, 1923.

Blum & Bergeron, Houma, La. Dried shrimp. 177,170; Dec. 11; Serial No. 181,167; published Sept. 25, 1923.

Bowman, Erick, Remedy Company, Inc., Owatonna, Minn. Abortion remedy and an insecticide. 177,268; Dec. 11; Serial No. 166,126; published Sept. 18, 1923.

Breon, George A., doing business as Whinton Laboratories, Kansas City, Mo. Medical compound for treating corns. 177,054; Dec. 11; Serial No. 180,167; published Sept. 11, 1923.

Brown Shoe Company, Inc., St. Louis, Mo. Leather, canvas, and cloth shoes. 176,970; Dec. 11; Serial No. 179,180; published Sept. 11, 1923.

Buell, George C., & Co., Inc., Rochester, N. Y. Coffee. 177,197; Dec. 11; Serial No. 178,817; published Sept. 11, 1923.

Bulubassis, George J., New York, N. Y. Sugar-coated peanuts. 177,089; Dec. 11; Serial No. 173,590; published Sept. 11, 1923.

Bunte Brothers, Chicago, Ill. Chocolates. 177,035; Dec. 11; Serial No. 160,385; published Sept. 25, 1923.

Burton Coffee Company, Knoxville, Tenn. Package and canned coffee. 177,236; Dec. 11; Serial No. 181,556; published Sept. 25, 1923.

Burton Coffee Company, Knoxville, Tenn. Package and canned coffee. 177,237; Dec. 11; Serial No. 181,554; published Sept. 25, 1923.

California Glove Company, Napa, Calif. Leather gloves. 177,125; Dec. 11; Serial No. 181,337; published Sept. 11, 1923.

California Preserving Company, Los Angeles, Calif. Canned fruit and vegetables, jams, jellies, etc. 177,044; Dec. 11; Serial No. 180,518; published Sept. 25, 1923.

Cannon Valley Milling Company, Minneapolis, Minn. Wheat flour. 177,036; Dec. 11; Serial No. 159,142; published Mar. 20, 1923.

Capitol Sales Company, Memphis, Tenn. Liniment for the treatment of stiff and sore muscles, rheumatic pains, etc. 177,029; Dec. 11; Serial No. 163,500; published Feb. 20, 1923.

Carpenter-Dodge Company, Arlington, Mass. Nails. 177,256; Dec. 11; Serial No. 184,065; published Sept. 25, 1923.

Carpenter, Walter M., doing business as Kluk Chemical Co., Minneapolis, Minn. Medicinal tablets for the prevention and treatment of cholera, etc., in fowls. 177,207; Dec. 11; Serial No. 179,412; published Sept. 18, 1923.

Catawba Candy Co., The, Sandusky, Ohio. Candy. 177,099; Dec. 11; Serial No. 170,004; published Mar. 13, 1923.

Cauchois Coffee Company, New York, N. Y. Coffee. 177,174; Dec. 11; Serial No. 181,011; published Sept. 25, 1923.

Champlain Valley Fruit Co., Inc., Burlington, Vt. Mayonnaise dressing, olive mayonnaise, peanut butter, etc. 177,198; Dec. 11; Serial No. 178,713; published Sept. 25, 1923.

Charles, Burton R., Los Angeles, Calif. Preparation for energizing circulatory and nervous systems of the human body. 177,239; Dec. 11; Serial No. 181,474; published Sept. 18, 1923.

Church-Vance Grocery Co., Peru, Ind. Coffee, rolled oats, cocoa, etc. 177,105; Dec. 11; Serial No. 173,033; published Sept. 18, 1923.

Citrus Products Company. (See McCarthy, Margaret B., assignor.)

Cleves, William B., doing business as Karmol Laboratory, Washington, D. C. Beauty clay. 176,983; Dec. 11; Serial No. 179,655; published Sept. 11, 1923.

Cohn, Léon, doing business as Les Parfums Forest, Paris, France. Perfume, toilet water, face powder, etc. 177,208; Dec. 11; Serial No. 177,547; published Sept. 18, 1923.

Colby Steel and Engineering Co., Seattle, Wash. Cranes 177,012; Dec. 11; Serial No. 157,759; published Sept. 25, 1923.

Collier, P. F., & Son Company, New York, N. Y. Series of books. 177,286; Dec. 11.

Colonial Packing Co., Los Angeles, Calif. Canned chili tomato sauce. 177,176; Dec. 11; Serial No. 180,965; published Sept. 25, 1923.

Columbia Products Company. (See Thoma, Otto.)

Columbus-Union Oil Cloth Co., The, Columbus, Ohio. Table oilcloth. 177,242; Dec. 11; Serial No. 181,383; published Sept. 11, 1923.

Commander Mill Co., Minneapolis, Minn. Wheat flour. 177,216; Dec. 11; Serial No. 176,251; published Sept. 18, 1923.

Consolidated Products Co., Chicago, Ill. Concentrated buttermilk. 176,959; Dec. 11; Serial No. 177,364; published Sept. 18, 1923.

Consolidated Rendering Company, Boston, Mass. Oleo, oleo oil, and shortening. 177,225; Dec. 11; Serial No. 175,187; published Sept. 18, 1923.

Consumers Biscuit Company, New Orleans, La. Candy. 176,998; Dec. 11; Serial No. 176,164; published Sept. 25, 1923.

Continental Wood Screw Co., New Bedford, Mass. Wood screws. 177,255; Dec. 11; Serial No. 184,280; published Sept. 25, 1923.

Cook, Annie F., Richmond, Va. Cooked foods. 177,277; Dec. 11; Serial No. 167,802; published Sept. 18, 1923.
Corbett Bros. Co., Paterson, N. J., and New York, N. Y. Ribbons in the piece. 177,142; Dec. 11; Serial No. 150,848; published Dec. 13, 1921.
Cough Checker Company, Newburgh, N. Y. Cough medicine. 177,058; Dec. 11; Serial No. 180,363; published Sept. 18, 1923.
Creed, W. S., doing business as W. S. Creed Company, Roanoke, Va. Alimentary products and pastes, spaghetti, macaroni, etc. 177,196; Dec. 11; Serial No. 178,494; published Sept. 25, 1923.
Crystal Chemical Company. (See Sterrick, Harrison D.)
Cummins, Charles C., Columbus, Ohio. Dentifrice. 177,094; Dec. 11; Serial No. 171,452; published Sept. 11, 1923.
Daaruhouwer & Co., Inc., New York, N. Y. Cocoa beans and butter, coffees, spices, and desiccated coconut. 177,021; Dec. 11; Serial No. 165,487; published Sept. 25, 1923.
Delfine Pure Food Co., Newark, N. J. Salad dressing, filling for sandwiches, for seasoning of food. 177,040; Dec. 11; Serial No. 179,588; published Sept. 11, 1923.
Delica Laboratories Co., Chicago, Ill. Lip sticks, eye brow and lash dressing, creams, rouge, etc. 176,991; Dec. 11; Serial No. 179,461; published Sept. 11, 1923.
Del Norte Commercial Co. (See Hume, John S.)
Diamond Bros., New York, N. Y. Hosiery. 177,249; Dec. 11; Serial No. 183,366; published Sept. 25, 1923.
Diederich, Henry, Brooklyn and Valley Stream, N. Y. Rusk. 177,056; Dec. 11; Serial No. 180,110; published Sept. 25, 1923.
Duffy-Mott Company, Inc., New York, N. Y. Vinegars. 177,025; Dec. 11; Serial No. 165,068; published Sept. 25, 1923.
Dunlevy-Franklin Company. (See Dunlevy Packing Company, assignor.)
Dunlevy Packing Company, Pittsburgh, Pa., assignor to Dunlevy-Franklin Company. Butter, oleomargarine, eggs, lard, etc. 177,138; Dec. 11; Serial No. 150,310; published Aug. 7, 1923.
Dunlevy Packing Company, assignor to Dunlevy-Franklin Company, Pittsburgh, Pa. Butter, oleomargarine, eggs, meats, etc. 177,143; Dec. 11; Serial No. 150,311; published Sept. 11, 1923.
Du Pont, E. I., de Nemours & Company, Wilmington, Del. Dyestuffs, dyestuff intermediates, and chemicals. 177,092; Dec. 11; Serial No. 172,869; published Sept. 11, 1923.
E. K. Co., The. (See Kraemer, Edmund M.)
Eichhold, Harry C., doing business as Eichhold & Company, New York, N. Y. Handkerchiefs. 177,071; Dec. 11; Serial No. 183,446; published Sept. 18, 1923.
Elite Glove Co., Gloversville, N. Y. Leather gloves. 176,954; Dec. 11; Serial No. 177,172; published Sept. 11, 1923.
Enterprise Candy Company. (See Harris Woodson Co., Inc.)
Epstein, Isaac J., San Francisco, Calif. Medicinal preparations. 177,063; Dec. 11; Serial No. 174,729; published Sept. 11, 1923.
Eridanea Company, Inc., Brooklyn, N. Y. Almond oil, castor oil, castor oil aromatic, iron cinchona bitters, etc. 177,213; Dec. 11; Serial No. 177,080; published Sept. 11, 1923.
Etablissements Poulenc Frères, Paris, France. Acetylamino-oxy-phenyl arsenic acid. 177,082; Dec. 11; Serial No. 173,745; published Sept. 11, 1923.
Etablissements Poulenc Frères, Paris, France. Chemical compound. 177,164; Dec. 11; Serial No. 173,757; published Sept. 18, 1923.
Eustis Packing Co., The. (See Oyler, Chas. C., & Son.)
Evans Concinnum & Metal Works Ltd., London, England. Pocket cigarette-rolling machines. 177,131; Dec. 11; Serial No. 139,790; published July 4, 1922.
Fashion Hat Company, New York, N. Y. Hats and caps. 176,972; Dec. 11; Serial No. 179,299; published Sept. 11, 1923.
Fenno, Herbert L., doing business as Holdems Company, Boston, Mass. Fastening devices. 177,117; Dec. 11; Serial No. 181,440; published Sept. 25, 1923.
Fischer-Jelenko Inc., New York, N. Y. Bath and lounging robes, dressing gowns, smoking jackets, negligees. 177,278; Dec. 11; Serial No. 183,143; published Sept. 25, 1923.
Florasynth Laboratories, New York and Unionport, N. Y. Flavoring extract for foods. 177,204; Dec. 11; Serial No. 179,191; published Sept. 25, 1923.
Fly, Joel O., doing business as The Fly Manufacturing Co., Shelbyville, Tenn. Work clothing. 177,118; Dec. 11; Serial No. 181,389; published Sept. 11, 1923.
Foot Balm Company. (See Hofer, Louis.)
Ford & Company, Brooklyn, N. Y. Fruit preserves. 176,978; Dec. 11; Serial No. 179,933; published Sept. 18, 1923.
Ford Flour Company, Wilmington, Del., and Nashville, Tenn. Self-rising wheat flour. 176,955; Dec. 11; Serial No. 177,081; published Sept. 4, 1923.
Ford Flour Company, Wilmington, Del., and Nashville, Tenn. Wheat flour. 177,210; Dec. 11; Serial No. 177,601; published Sept. 18, 1923.
Fortune Products Company, Chicago, Ill. Macaroni. 177,161; Dec. 11; Serial No. 181,884; published Sept. 25, 1923.
Fostoria Glass Company, Moundsville, W. Va. Table and ornamental glassware and glass toilet articles. 177,291; Dec. 11.
Fourgees Cotton Mills. (See Hart, John I.)
Frasse, Peter A., & Co., Inc., New York, N. Y. Rust remover and pickling compound for metals. 177,179; Dec. 11; Serial No. 180,853; published Sept. 11, 1923.
Free & Klinck, Inc., Brooklyn, N. Y. Canned fruits and vegetables. 177,173; Dec. 11; Serial No. 181,019; published Sept. 25, 1923.
Frontier Elevator & Mill Co., Buffalo, N. Y. Wheat flour. 177,052; Dec. 11; Serial No. 180,276; published Sept. 25, 1923.
Gaffney, Romeo, Coffeyville, Kans. Blood, liver, and system tonic. 177,172; Dec. 11; Serial No. 181,068; published Sept. 18, 1923.
Gates Auto Laundry and Supply Company, St. Louis, Mo. Air-pressure systems for washing automobiles or other vehicles and cleaning the interior thereof and parts of said systems. 176,968; Dec. 11; Serial No. 179,144; published Sept. 25, 1923.
Genant, William A., Syracuse, N. Y. Canned shrimp. 177,034; Dec. 11; Serial No. 160,409; published Sept. 25, 1923.
Getz, Vernon C., doing business as The Wonderlay Company, Indianapolis, Ind. Chick tonic feed. 177,215; Dec. 11; Serial No. 177,293; published Sept. 18, 1923.
Gibson, Lina S., doing business as Gibson Remedy Company, Fort Wayne, Ind. Preparation for the relief of coughs and after effects of influenza, etc. 177,183; Dec. 11; Serial No. 180,759; published Sept. 11, 1923.
Gilliam Manufacturing Company, The, Canton, Ohio. Roller bearings. 177,107; Dec. 11; Serial No. 173,633; published Sept. 25, 1923.
Goldberg, Fred, doing business as National Extract & Flavor Co., Hoboken, N. J. Hair tonic. 177,133; Dec. 11; Serial No. 144,812; published Sept. 18, 1923.
Gold Buckle Association, East Highlands, Calif. Citrous fruits. 177,083; Dec. 11; Serial No. 173,636; published Sept. 11, 1923.
Gold Buckle Association, East Highlands, Calif. Citrous fruits. 177,084; Dec. 11; Serial No. 173,639; published Sept. 11, 1923.
Gold Buckle Association, East Highlands, Calif. Citrous fruits. 177,085; Dec. 11; Serial No. 173,640; published Sept. 11, 1923.
Gold Buckle Association, East Highlands, Calif. Citrous fruits. 177,086; Dec. 11; Serial No. 173,642; published Sept. 11, 1923.
Goodlatte, T. R., & Sons, (Inc.), Delawanna, Clifton, N. J. Oilcloth. 177,068; Dec. 11; Serial No. 183,145; published Sept. 18, 1923.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Rubber belting. 177,126; Dec. 11; Serial No. 109,059; published Oct. 7, 1919.
Gray, P. N., & Company, Inc., New York, N. Y. Wheat flour. 177,113; Dec. 11; Serial No. 174,735; published Sept. 18, 1923.
Grayland Cranberry Growers, Grayland, Wash. Fresh cranberries. 177,093; Dec. 11; Serial No. 171,316; published Sept. 25, 1923.
Greene, Jesse N., doing business as J. N. Greene Co., Norfolk, Va. Stimulating tonic for kidney and bladder derangements. 176,990; Dec. 11; Serial No. 179,467; published Sept. 11, 1923.
Grenoville, Marie M. Richard Vve., doing business as Parfumerie Grenoville, Asnieres, France. Liquid adhesive toilet powder. 177,048; Dec. 11; Serial No. 180,370; published Sept. 18, 1923.
Griggs Bros. Co., Toledo, Ohio. Honey. 177,134–6; Dec. 11; Serial Nos. 149,694–6; published Sept. 26, 1922.
Griggs Bros. Co., The, Toledo, Ohio. Honey. 177,139; Dec. 11; Serial No. 149,697; published Sept. 26, 1922.
Gypsy Dyes, Inc., Chicago, Ill. Dyes. 177,238; Dec. 11; Serial No. 181,486; published Sept. 18, 1923.
Haas, Baruch & Co., Los Angeles, Calif. Table salt. 177,228; Dec. 11; Serial No. 181,745; published Sept. 18, 1923.
Haas Brothers Fabrics Corporation, New York, N. Y. Silk, cotton, etc. piece goods. 177,073–4; Dec. 11; Serial Nos. 183,740–1; published Sept. 18, 1923.
Haas Brothers Fabrics Corporation, New York, N. Y. Silk, cotton, linen, and woolen piece goods. 177,075; Dec. 11; Serial No. 183,738; published Sept. 18, 1923.
Haas Brothers Fabrics Corporation, New York, N. Y. Silk, cotton, linen, and woolen piece goods. 177,078; Dec. 11; Serial No. 183,742; published Sept. 18, 1923.
Haegelin, Roscoe, Co., Santa Rosa, Calif. Pickles, vinegar, fruit jellies, and preserves, etc. 177,145; Dec. 11; Serial No. 152,276; published Nov. 22, 1921.
Harris Woodson Co., Inc., also doing business as Enterprise Candy Company, Lynchburg, Va. Candy. 177,053; Dec. 11; Serial No. 180,216; published Sept. 25, 1923.
Hart, John I., doing business as Fourgees Cotton Mills, Manchester, England. Cotton piece goods. 177,069–70; Dec. 11; Serial Nos. 183,569–70; published Sept. 11, 1923.
Hattiesburg Grocery Co., Hattiesburg, Miss. Self-rising wheat flour. 177,219; Dec. 11; Serial No. 176,827; published Sept. 18, 1923.
Hay, Carl A., doing business as The Newton Ice Cream Company, Newton, Kans. Ice cream. 177,033; Dec. 11; Serial No. 160,938; published Sept. 18, 1923.

Hebert, R. B., and Son, Genaga Lake, Ohio. Liniment. 177,088; Dec. 11; Serial No. 173,493; published Sept. 18, 1923.
Heineman Bros., Baltimore, Md. Cigars. 177,271; Dec. 11; Serial No. 156,491; published Feb. 14, 1922.
Hertz, Jacob, doing business as Hertz & Co., London, England. Insect-destroying preparations. 177,233; Dec. 11; Serial No. 181,596; published Sept. 18, 1923.
Hill, S. W., and Sons, Morgantown, W. Va. Salve. 177,171; Dec. 11; Serial No. 181,119; published Sept. 18, 1923.
Hilton, Joseph, New York, N. Y. Men's, young men's, and boys' clothing and haberdashery. 177,009; Dec. 11; Serial No. 153,507; published June 26, 1923.
Hinkle, Hutchinson S., doing business as The Leclare Laboratories, New York, N. Y. Hair remover. 176,974; Dec. 11; Serial No. 180,066; published Sept. 11, 1923.
Hite Brothers, Peru, Ind. Pancake and buckwheat flour. 177,124; Dec. 11; Serial No. 181,342; published Sept. 25, 1923.
Hofer, Louis, doing business as Foot Balm Company, Cincinnati, Ohio. Foot balm. 176,981; Dec. 11; Serial No. 179,793; published Sept. 11, 1923.
Holdems Company. (See Fenno, Herbert L.)
Home Dairy Company, Saginaw, Mich. Pastry, doughnuts, bread, biscuits, cake, potato chips, etc. 176,952; Dec. 11; Serial No. 147,288; published Mar. 14, 1922.
Hood, H. P., & Sons, Inc., Boston, Mass. Milk, cream, butter, cheese, and ice cream. 177,137; Dec. 11; Serial No. 146,215; published June 6, 1922.
Hood Rubber Company, Watertown, Mass. Rubber boots, shoes, overshoes, etc. 176,969; Dec. 11; Serial No. 179,040; published Sept. 11, 1923.
Hopper, Thompson C., Gest, Ky. Preparation for use as a breakfast cereal and in cooked foods. 177,180; Dec. 11; Serial No. 180,863; published Sept. 25, 1923.
Hume, John S., doing business as Del Norte Commercial Co., Seattle, Wash. Canned fish, fruits, and vegetables. 176,977; Dec. 11; Serial No. 179,941; published Sept. 25, 1923.
Hurty-Peck & Company, Indianapolis, Ind. Beverage sold as a soft drink and sirups for making same. 177,132; Dec. 11; Serial No. 145,896; published Aug. 15, 1922.
Ideal Caramel Company, Inc., Johnson City, N. Y. Candies, candy confections, sweetmeats, chewing gum. 177,214; Dec. 11; Serial No. 177,225; published Aug. 28, 1923.
Illinois Canning Company, The, Hoopeston, Ill. Canned vegetables. 177,162; Dec. 11; Serial No. 181,894; published Sept. 25, 1923.
Illinois Canning Company, The, Hoopeston, Ill. Canned corn. 177,163; Dec. 11; Serial No. 181,895; published Sept. 25, 1923.
Imperial Distributing Co., Los Angeles, Calif. Cantaloupes, fresh fruits and vegetables. 177,018; Dec. 11; Serial No. 164,916; published Sept. 25, 1923.
Independent Drug Company, Jacksonville, Fla. Medicinal preparations. 177,175; Dec. 11; Serial No. 180,865; published Sept. 11, 1923.
Indian Village Bakery, Detroit, Mich. Bread. 177,270; Dec. 11; Serial No. 156,579; published Sept. 25, 1923.
Irwin-Harrisons & Crosfield, Inc., San Francisco, Calif. Canned sardines. 177,235; Dec. 11; Serial No. 181,567; published Sept. 25, 1923.
Iskowitz, Charles, New York, N. Y. Hosiery. 177,253; Dec. 11; Serial No. 183,525; published Sept. 25, 1923.
Jacques, May O., doing business as Pearidento Company, New York, N. Y. Antiseptic mouth wash. 177,129; Dec. 11; Serial No. 140,964; published Jan. 3, 1922.
Jameson-Hevener Company, St. Paul, Minn. Poultry food. 177,217; Dec. 11; Serial No. 176,346; published Sept. 25, 1923.
Jevne, H., Co., Los Angeles, Calif. Coffee, tea, cocoa, biscuit flour, etc. 177,026; Dec. 11; Serial No. 162,746; published Sept. 18, 1923.
Kahn's, E., Sons Company, The, Cincinnati, Ohio. Sausage, bacon, lard, lard compound. 177,158; Dec. 11; Serial No. 182,153; published Sept. 25, 1923.
Kaplan, Martin, Brooklyn, N. Y. Medicines and pharmaceutical preparations. 177,055; Dec. 11; Serial No. 180,125; published Sept. 18, 1923.
Karmol Laboratory. (See Cleves, William B.)
Kaupke Coffee Company, Cedar Rapids, Iowa. Spices, coffee, etc. 177,027; Dec. 11; Serial No. 163,337; published Sept. 25, 1923.
Kelley, Frederick W., Glenwood, Iowa. Medicinal preparation used in the treatment of galls, sores, etc., on horses. 177,232; Dec. 11; Serial No. 181,601; published Sept. 18, 1923.
Kelsey Textile Corporation, New York, N. Y. Cotton piece goods. 177,076–7; Dec. 11; Serial Nos. 183,747–8; published Sept. 18, 1923.
Kelsey Textile Corporation, New York, N. Y. Cotton piece goods. 177,081; Dec. 11; Serial No. 183,749; published Sept. 18, 1923.
Kemp, Walter D., New York, N. Y. Sandwichlike product. 177,144; Dec. 11; Serial No. 155,352; published Sept. 18, 1923.
Killfeather, Gertrude, Spokane, Wash. Young girls' dresses. 177,279; Dec. 11; Serial No. 183,157; published Sept. 25, 1923.
King, John P., Manufacturing Co., The, Augusta, Ga. Cotton piece goods. 177,267; Dec. 11; Serial No. 166,373; published Sept. 18, 1923.
King's Food Products Company, Portland, Oreg. Dehydrated fruits and vegetables. 177,141; Dec. 11; Serial No. 151,323; published Mar. 14, 1922.
Kirschner, M., Sons, New York, N. Y. Women's and misses' suits and dresses. 176,965; Dec. 11; Serial No. 178,345; published July 10, 1923.
Kluk Chemical Co. (See Carpenter, Walter M.)
Knorr, C. H., A. G., Heilbronn, Germany. Digestive flours, condensed soups, macaroni, etc. 177,288; Dec. 11.
Kohr Mfg. Co., Middletown, Pa. Medicinal preparation for treatment of eczema, tetter, etc. 176,982; Dec. 11; Serial No. 179,732; published Sept. 18, 1923.
Koppe, Edgar J., doing business as The Tex-Alle Company, Los Angeles, Calif. Tamales. 177,203; Dec. 11; Serial No. 179,154; published Sept. 25, 1923.
Kops Bros., New York, N. Y. Corsets, brassières, and underwear for women. 177,109–11; Dec. 11; Serial Nos. 174,248–50; published Sept. 18, 1923.
Kracker-Kup Company, Inc., New York, N. Y. Edible cups capable of retaining liquids. 177,030; Dec. 11; Serial No. 163,882; published Mar. 6, 1923.
Kraemer, Edmund M., doing business as The E. K. Co., Philadelphia, Pa. Preparation for hay fever and rose cold. 176,985; Dec. 11; Serial No. 179,606; published Sept. 18, 1923.
Kusaka, T., San Jose, Calif. Medicine for the skin. 177,177; Dec. 11; Serial No. 180,981; published Sept. 18, 1923.
L. S. Laboratories. (See Singer, Louis.)
La Belle Brassiere Co., Inc., New York, N. Y. Brassières and girdles. 176,973; Dec. 11; Serial No. 179,209; published Sept. 11, 1923.
Lake Shore Elevator Company, The, Cleveland, Ohio. Animal feeds. 176,960; Dec. 11; Serial No. 177,562; published Sept. 18, 1923.
Lamont-Corliss and Company, New York, N. Y. Milk chocolate and cocoa. 177,265; Dec. 11; Serial No. 167,257; published Mar. 20, 1923.
Lamont-Corliss and Company, New York, N. Y. Milk chocolate and cocoa. 177,266; Dec. 11; Serial No. 167,255; published Mar. 20, 1923.
Lamont-Corliss and Company, New York, N. Y. Chocolate coating and cocoa. 177,281; Dec. 11.
Lamont-Corliss and Company, New York, N. Y. Cocoa and chocolate. 177,282; Dec. 11.
Lamont-Corliss and Company, New York, N. Y. Milk chocolate. 177,283; Dec. 11.
Lamont-Corliss and Company, New York, N. Y. Milk chocolate and cocoa. 177,285; Dec. 11.
Lanfranchi, Anne, doing business as Rollee, New York, N. Y. Hats for women and children. 176,957; Dec. 11; Serial No. 177,305; published Sept. 11, 1923.
Laux, John, doing business as Wilsonville Roller Mills, Wilsonville, Nebr. Wheat flour. 177,226; Dec. 11; Serial No. 175,501; published June 19, 1923.
Leclare Laboratories, The. (See Hinkle, Hutchinson S.)
Lee-Strauss Co., Johnstown, Pa. Antifreeze preparation for automobile radiators. 177,246; Dec. 11; Serial No. 181,344; published Aug. 21, 1923.
Les Parfums Forest. (See Cohn, Léon.)
Lewis, Roy B., doing business as Roy B. Lewis Co., Duluth, Minn. Hosiery. 177,274; Dec. 11; Serial No. 183,306; published Sept. 25, 1923.
Liberty Macaroni Manufacturing Co., St. Louis, Mo. Macaroni, spaghetti, noodles, etc. 176,994; Dec. 11; Serial No. 176,745; published Sept. 25, 1923.
Lilienthal & Grossman, Inc., New York, N. Y. Gloves. 176,997; Dec. 11; Serial No. 176,352; published Aug. 28, 1923.
Lincoln Laboratories, Inc., Chicago, Ill. Beauty clay. 177,206; Dec. 11; Serial No. 179,308; published Sept. 18, 1923.
Lion, Oscar, doing business as Lion and Company, New York, N. Y. Silk and cotton ribbon in the piece. 177,152; Dec. 11; Serial No. 182,249; published Sept. 18, 1923.
Long Island Packing Co. Inc., Brooklyn, N. Y. Honey. 177,181; Dec. 11; Serial No. 180,709; published Sept. 25, 1923.
Lottman Medicine Company, Cairo, Ill. Proprietary medicines for treatment of indigestion, sour stomach, etc. 177,199; Dec. 11; Serial No. 179,009; published Sept. 18, 1923.
Louisville Milling Co., Minneapolis, Minn. Wheat flour. 177,051; Dec. 11; Serial No. 180,288; published Sept. 25, 1923.
Louisville Milling Co., Minneapolis, Minn. Wheat flour. 177,060; Dec. 11; Serial No. 180,289; published Sept. 25, 1923.
Luden, Wm. H., Inc., Reading, Pa. Candy. 177,043; Dec. 11; Serial No. 180,542; published Sept. 25, 1923.
Luther, Charles G., doing business as Luthers Pharmacy, Beaufort, S. C. Preparations for the relief of itching, inflammation, and irritations of the skin, biliousness, etc. 177,272; Dec. 11; Serial No. 156,331; published Sept. 11, 1923.
McCall, John O., doing business as The Odontex Company, Buffalo, N. Y. Tooth powder and paste and mouth wash. 177,231; Dec. 11; Serial No. 181,606; published Sept. 18, 1923.
McCarthy, Margaret B., assignor to Citrus Products Company, Chicago, Ill. Nonalcoholic beverage sold as a soft drink. 177,127; Dec. 11; Serial No. 119,527; published Mar. 7, 1922.

McDougall-Butler Co. Inc., Buffalo, N. Y. Varnish. 177,269; Dec. 11; Serial No. 156,798; published Apr. 25, 1922.

McElwain, W. H., Company, doing business as McElwain, Hutchinson & Winch, Boston, Mass. Leather boots, shoes, and slippers. 176,993; Dec. 11; Serial No. 176,903; published Sept. 18, 1923.

Mac Lean Drug Company, Chicago, Ill. Patent medicines. 177,091; Dec. 11; Serial No. 172,845; published Sept. 18, 1923.

Macphee & Company, Inc., Philadelphia, Pa. Nerve-tonic medicine. 176,980; Dec. 11; Serial No. 179,806; published Sept. 11, 1923.

Maddock, Arthur C., Duarte, Calif. Fresh citrous fruits. 176,964; Dec. 11; Serial No. 178,854; published Sept. 25, 1923.

Magic Leather Treatment Company, Detroit, Mich. Preparation for preserving and making flexible canvas and leather belting. 176,951; Dec. 11; Serial No. 175,257; published Aug. 21, 1923.

Malouf, Abraham M., New York, N. Y. Garters. 176,971; Dec. 11; Serial No. 179,618; published Sept. 11, 1923.

Maltana Company, The, Welland, Ontario, Canada. Wheat and pancake flour, flour for making pastries, etc. 177,016; Dec. 11; Serial No. 164,253; published Sept. 25, 1923.

Mandell, Kaufmann, Casa Grande, Ariz. Handkerchiefs. 177,072; Dec. 11; Serial No. 183,580; published Sept. 18, 1923.

Manganese Bronze and Brass Co. Limited, The, Westminister, London, England. Metals used in manufacture. 177,190; Dec. 11; Serial No. 178,051; published Sept. 25, 1923.

Mannesmannröhren-Werke, Dusseldorf, Germany. Tubes, tube joints, pipes, etc. 177,015; Dec. 11; Serial No. 163,689; published Sept. 25, 1923.

Marmola Company, Detroit, Mich. Deodorant. 176,950; Dec. 11; Serial No. 178,621; published Sept. 18, 1923.

Mars Grand Rug Co., The, Pawtucket, R. I. Rugs, carpets, and other textile floor coverings. 177,067; Dec. 11; Serial No. 183,390; published Sept. 18, 1923.

Marshall Field & Company, Chicago, Ill. Cotton linings in the piece. 176,987; Dec. 11; Serial No. 179,524; published Sept. 11, 1923.

Masol Chemical Co., Chicago, Ill. Toilet preparations. 177,247; Dec. 11; Serial No. 181,760; published Sept. 18, 1923.

Metke, John, doing business as Queen City Specialty Company, Buffalo, N. Y. Waterproof dressing for leather, etc. used for automobile tops. 176,949; Dec. 11; Serial No. 159,527; published July 3, 1923.

Michele Ajetto Co., Inc., Brooklyn, N. Y. Canned olive oil, fruits, and vegetables. 177,202; Dec. 11; Serial No. 179,127; published Sept. 25, 1923.

Middleby, Jos., Jr., Inc., Boston, Mass. Whipping powder for use in the manufacture of icings, etc. 177,224; Dec. 11; Serial No. 176,199; published Sept. 18, 1923.

Midland Grocery Company, The, Columbus, Ohio. Tea and coffee. 177,245; Dec. 11; Serial No. 181,346; published Aug. 21, 1923.

Mills Brothers Company, The, doing business as The American Products Company, Cincinnati, Ohio. Cake icing, pie filling, shredded coconut, etc. 177,112; Dec. 11; Serial No. 174,716; published Sept. 11, 1923.

Minneapolis Milling Co., Minneapolis, Minn. Wheat flour. 177,220; Dec. 11; Serial No. 175,939; published Sept. 18, 1923.

Misewicz, John, Charleroi, Pa. Foot powder. 177,050; Dec. 11; Serial No. 180,443; published Sept. 18, 1923.

Modishform Brassiere Co. Inc., The, New York, N. Y. Brassières. 177,006; Dec. 11; Serial No. 180,291; published Sept. 11, 1923.

Montgomery, Ada, Kansas City, Mo. Preparation for the growth of the hair. 177,191; Dec. 11; Serial No. 178,055; published Sept. 18, 1923.

Moskowitz, Joseph, New York, N. Y. Pastry flour. 177,218; Dec. 11; Serial No. 176,416; published Sept. 18, 1923.

Moss Brothers, New York, N. Y. Silk goods in the piece. 177,101; Dec. 11; Serial No. 170,444; published Sept. 18, 1923.

Naamlooze Vennootschap Industrieele Maatschappij v/h Noury & Van Der Lande, Deventer, Netherlands. Flour, meal, farina, etc. 177,011; Dec. 11; Serial No. 157,846; published Sept. 25, 1923.

National Chemical Co., Chicago, Ill. Perfumes, toilet water, cleansing cream, etc. 176,979; Dec. 11; Serial No. 179,815; published Sept. 11, 1923.

National Extract & Flavor Co. (See Goldberg, Fred.)

National Radium Co., Los Angeles, Calif. Liquid medicinal compound used for the treatment of rheumatism, neuralgia, sciatica, etc. 177,166; Dec. 11; Serial No. 181,766; published Sept. 18, 1923.

Nature's Own Food Co., Madison, Wis. Wheat and rye flour, corn meal, and bread. 177,038; Dec. 11; Serial No. 158,090; published Sept. 25, 1923.

New England Confectionery Company, Boston, Mass. Candy. 177,153; Dec. 11; Serial No. 182,256; published Sept. 18, 1923.

Nickel Plate Elevator Company, The, Cleveland, Ohio. Poultry and stock feed. 177,000; Dec. 11; Serial No. 181,086; published Sept. 25, 1923.

Niedzielski, Albert W., Chicago, Ill. Purgative tea in dry form. 177,049; Dec. 11; Serial No. 180,384; published Sept. 18, 1923.

No-Liquid Door Check Company, The, Columbus, Ohio. Doorchecks. 177,275; Dec. 11; Serial No. 183,225; published Sept. 25, 1923.

Nolyec Laboratories, Chicago, Ill. Emulsion used in treating constipation. 177,159; Dec. 11; Serial No. 181,769; published Sept. 18, 1923.

Nolyec Laboratories, Chicago, Ill. Emulsion used in treating constipation. 177,167; Dec. 11; Serial No. 181,767; published Sept. 18, 1923.

North American Mercantile Co., San Francisco, Calif. Rice. 176,996; Dec. 11; Serial No. 176,356; published Aug. 21, 1923.

Northern Jobbing Company, Chicago, Ill. Wheat flour, oleomargarine, tapioca, etc. 177,098; Dec. 11; Serial No. 171,034; published Sept. 25, 1923.

Norton, Willis, & Co., North Topeka, Kans. Wheat flour. 176,976; Dec. 11; Serial No. 179,949; published Sept. 18, 1923.

Notaseme Hosiery Co., Philadelphia, Pa. Hosiery. 177,106; Dec. 11; Serial No. 173,104; published Sept. 25, 1923.

Odontex Company, The. (See McCall, John O.)

Oriole Shirt Manufacturing Corporation, New York, N. Y. Men's dress and negligee shirts. 177,276; Dec. 11; Serial No. 183,160; published Sept. 25, 1923.

Oxo, Limited, London, England. Soups and preparations for making. 177,039; Dec. 11; Serial No. 157,898; published Sept. 25, 1923.

Oyler, Chas. C., & Son, Cincinnati, Ohio, doing business as The Eustis Packing Co., Eustis, Fla. Fresh citrous fruits. 176,989; Dec. 11; Serial No. 179,482; published Sept. 25, 1923.

Pachner, I., & Son, Inc., New York, N. Y. Articles of ladies' apparel. 177,273; Dec. 11; Serial No. 183,342; published Sept. 25, 1923.

Pacific Foundry Company, San Francisco, Calif. Metal castings. 177,257; Dec. 11; Serial No. 183,850; published Sept. 25, 1923.

Parke, Davis & Company, Detroit, Mich. Medicine for whooping cough, bronchitis, tuberculosis, etc. 176,953; Dec. 11; Serial No. 181,612; published Sept. 18, 1923.

Parks, Joseph W., doing business as Wopsy Poultry Yards, Altoona, Pa. Live poultry and eggs. 177,023; Dec. 11; Serial No. 166,092; published Sept. 25, 1923.

Paulson, Anna, New York, N. Y. Candies, pastries, breads, and cakes. 177,104; Dec. 11; Serial No. 170,538; published Sept. 18, 1923.

Pearldento Company. (See Jacques, May O.)

Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Lye. 177,222; Dec. 11; Serial No. 176,094; published Sept. 18, 1923.

Perrotti, Mario T., doing business as Perrotti Drug Company, Providence, R. I. Preparation for the treatment of corns. 177,168; Dec. 11; Serial No. 181,216; published Sept. 18, 1923.

Peters, M. C., Mill Co., Omaha, Nebr. Poultry feeds. 177,188; Dec. 11; Serial No. 177,991; published Aug. 21, 1923.

Petrocelli, Joseph, & Co., Inc., New York, N. Y. Olive oil. 177,262; Dec. 11; Serial No. 160,181; published Sept. 25, 1923.

Pond, Harry A., Bay City, Mich. Pile remedy. 176,992; Dec. 11; Serial No. 179,425; published Sept. 18, 1923.

Poor, Charles L., Co., New York, N. Y. Cotton piece goods. 177,221; Dec. 11; Serial No. 176,040; published Sept. 18, 1923.

Popsicle Corporation, The, New York, N. Y. Lollypops. 177,230; Dec. 11; Serial No. 181,614; published Sept. 25, 1923.

Power, Edwin L., Solano, Calif. Fruits and nuts. 177,147; Dec. 11; Serial No. 156,017; published Sept. 11, 1923.

Procter and Gamble Company, The, Cincinnati, Ohio. Cottonseed oil, salad oils, oleomargarine, etc. 177,189; Dec. 11; Serial No. 177,996; published Sept. 18, 1923.

Quaker Oats Company, The, Chicago, Ill. Stock feeds. 177,065; Dec. 11; Serial No. 174,917; published Aug. 7, 1923.

Quaker Oats Company, The, Chicago, Ill. Farinaceous stock feeds. 177,066; Dec. 11; Serial No. 174,918; published Sept. 4, 1923.

Quaker Oats Company, The, Chicago, Ill. Rolled wheat and a mixture of wheat and bran flour. 177,100; Dec. 11; Serial No. 170,215; published Sept. 25, 1923.

Quaker Oats Company, The, Chicago, Ill. Rolled wheat and wheat and bran flour. 177,103; Dec. 11; Serial No. 170,214; published Sept. 18, 1923.

Queen City Specialty Company. (See Metke, John.)

Rauscher, Charles A., & Co., Los Angeles, Calif. Mincemeat, plum pudding, and fig pudding. 176,961; Dec. 11; Serial No. 177,622; published Aug. 21, 1923.

Reid, Murdoch & Co., Chicago, Ill. Canned fish. 177,264; Dec. 11; Serial No. 167,828; published Sept. 25, 1923.

Reynolds, Wm. T., & Co., Inc., Poughkeepsie, N. Y. Coffee. 176,983; Dec. 11; Serial No. 178,287; published Sept. 25, 1923.

Ritter Hosiery Company, Fleetwood, Pa. Hosiery. 177,260; Dec. 11; Serial No. 183,669; published Sept. 25, 1923.

Rollee. (See Lanfranchi, Anne.)

Roszell, James D., doing business as J. D. Roszell, Peoria, Ill. Milk products, ice creams, and confections. 177,280; Dec. 11.

Rothstein, Aaron J., doing business as Triangle Thread Mills, New York, N. Y. Mercerized and plain cotton thread. 177,037; Dec. 11; Serial No. 158,444; published Oct. 10, 1922.

Safetygas & Appliance Company. (See Adamson, Charles E.)

Saks & Company, New York, N. Y. Underwear, footwear, neckwear, shirts. 177,095; Dec. 11; Serial No. 172,444; published Sept. 11, 1923.

Sandefur, Charles O., doing business as Sandefur's Cereal Mill, assignor to Anglo-American Mill Company, Owensboro, Ky. Cracked cereal food. 177,004–5; Dec. 11; Serial Nos. 180,298–9; published Sept. 25, 1923.

Sandefur, Charles O., doing business as Sandefur's Cereal Mill, assignor to Anglo-American Mill Company, Owensboro, Ky. Pancake flour. 177,059; Dec. 1; Serial No. 180,302; published Sept. 25, 1923.

San Francisco Sulphur Co., San Francisco, Calif. Sulphur. 177,244; Dec. 11; Serial No. 181,351; published Sept. 11, 1923.

Schaefer, Herbert C., Denver, Colo. Face and sachet powders, skin creams, etc. 176,988; Dec. 11; Serial No. 179,485; published Sept. 11, 1923.

Scherk, Ludwig, Berlin, Germany. Perfumery, cream, lotion, rouge, etc. 176,975; Dec. 11; Serial No. 179,966; published Sept. 11, 1923.

Schmitt, C. H. A., Company, Inc., Boston, Mass. Dyestuffs. 177,185; Dec. 11; Serial No. 180,622; published Sept. 11, 1923.

Schoonmaker Bros. & Company, Inc., New York, N. Y. Silk fabrics in the piece. 177,151; Dec. 11; Serial No. 182,360; published Sept. 18, 1923.

Schor & Roberts, San Francisco, Calif. Food product. 176,905; Dec. 11; Serial No. 176,695; published Sept. 25, 1923.

Schroeder & Worth, New York, N. Y. Dresses, coats, and suits. 177,013; Dec. 11; Serial No. 159,820; published Sept. 18, 1923.

Scientol Products Co., Brooklyn, N. Y. Hair tonic. 177,240; Dec. 11; Serial No. 181,455; published Sept. 18, 1923.

Seidman, Charles, doing business as Charles Seidman & Co., Philadelphia, Pa. Neckties. 177,258; Dec. 11; Serial No. 183,763; published Sept. 25, 1923.

Shotwell Mfg. Co., Chicago, Ill. Pop-corn candy. 177,241; Dec. 11; Serial No. 181,416; published Sept. 25, 1923.

Siegel, Henry, New York, N. Y. Ladies' trimmed hats. 177,002; Dec. 11; Serial No. 180,399; published Sept. 11, 1923.

Singer, Louis, doing business as L. S. Laboratories, New York, N. Y. Nail polishes, paste polish, nail white, etc. 177,192; Dec. 11; Serial No. 178,290; published Sept. 11, 1923.

Slands M'f'g Co., New York, N. Y. Sheepskin coats. 177,254; Dec. 11; Serial No. 183,636; published Sept. 25, 1923.

Smith Oil & Refining Company, Rockford, Ill. Core oil. 177,186; Dec. 11; Serial No. 180,626; published Aug. 7, 1923.

Snyder, Harry, doing business as Harry Snyder & Company, Chicago, Ill. Live and dressed poultry, butter, eggs. 177,010; Dec. 11; Serial No. 159,625; published Sept. 18, 1923.

Societe Anonyme Dentifrices Bi-Oxyne, Paris, France. Dentifrices and products used for the hygiene of the mouth. 177,229; Dec. 11; Serial No. 181,705; published Sept. 18, 1923.

Societe Anonyme pour l'Expansion des Marques de Fabrique et de Commerce, Courbevoie, France. Preparation for syphilis, tabes, and general paralysis. 177,243; Dec. 11; Serial No. 181,355; published Sept. 18, 1923.

Southwestern Milling Company Inc., New York, N. Y. Wheat flour. 177,114–16; Dec. 11; Serial Nos. 181,458–60; published Sept. 25, 1923.

Standard Development Company. (See Standard Oil Company Incorporated in New Jersey, assignor.)

Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J., assignor to Standard Development Company, New York, N. Y. Prepared chemical liquid for protection and prevention of evaporation of volatile liquids. 177,087; Dec. 11; Serial No. 172,910; published Mar. 13, 1923.

Star & Crescent Milling Co., Minneapolis, Minn. Semolina. 177,003; Dec. 11; Serial No. 180,308; published Sept. 25, 1923.

Steelcraft Corporation of America, Cleveland, Ohio. Safes and vaults. 177,007; Dec. 11; Serial No. 179,889; published Sept. 25, 1923.

Sterrick, Harrison D., doing business as Crystal Chemical Company, Pittsburgh, Pa. Combination of healing and medicinal oils and antiseptics. 177,028; Dec. 11; Serial No. 163,356; published Sept. 18, 1923.

Stevens, Chas. A., & Bros., Chicago, Ill. Silks in the piece. 177,149; Dec. 11; Serial No. 182,446; published Sept. 11, 1923.

Stevens, Chas. A., & Bros., Chicago, Ill. Silks and laces in the piece. 177,150; Dec. 11; Serial No. 182,447; published Sept. 11, 1923.

Stouffer, Avery M., doing business as Stouffer Products Co., Chicago, Ill. Table sirup. 176,966; Dec. 11; Serial No. 178,300; published Sept. 25, 1923.

Sun Oil Company, Philadelphia, Pa. Spraying oil. 177,042; Dec. 11; Serial No. 180,562; published Sept. 18, 1923.

Super-Refined Metals Company, Los Angeles, Calif. Bearing metals. 177,248; Dec. 11; Serial No. 183,420; published Sept. 25, 1923.

Sussman, Wormser & Co., San Francisco, Calif. Canned fruits. 177,234; Dec. 11; Serial No. 181,575; published Sept. 25, 1923.

Sweet, Wm. S., & Son, Inc., Providence, R. I. Watermelons. 177,041; Dec. 11; Serial No. 180,563; published Sept. 25, 1923.

Sweet, Wm. S., & Son, Inc., Providence, R. I. Watermelons. 177,046; Dec. 11; Serial No. 180,507; published Sept. 25, 1923.

Sziber, Steve A. D., New York, N. Y. Medicine for tuberculosis, etc. 177,047; Dec. 11; Serial No. 180,508; published Sept. 18, 1923.

T. & C. Corporation, New York, N. Y. Food products. 177,165; Dec. 11; Serial No. 173,863; published Aug. 7, 1923.

Takamine Laboratory, Inc., Clifton, N. J., and New York, N. Y. Starch solvents. 177,032; Dec. 11; Serial No. 161,285; published Sept. 18, 1923.

Tasty Baking Company, Philadelphia, Pa. Toasted sponge cake or slightly-sweetened bread. 176,999; Dec. 11; Serial No. 175,684; published Aug. 21, 1923.

Taylor Bros., Camden, N. J. Poultry feed. 177,289; Dec. 11.

Taylor, Thos. P., Co., The, Bridgeport, Conn. Children's waists and underwear. 177,251–2; Dec. 11; Serial Nos. 183,506–7; published Sept. 25, 1923.

Terre Vitae Company, Chicago, Ill. Beauty clay. 177,194; Dec. 11; Serial No. 178,416; published Sept. 11, 1923.

Tex-Alie Company, The. (See Koppe, Edgar J.)

Texas Star Flour Mills, Galveston, Tex. Wheat flour. 177,001; Dec. 11; Serial No. 180,631; published Sept. 25, 1923.

Thoma, Otto, doing business as Columbia Products Company, St. Louis, Mo. Malt extract for food purposes. 177,205; Dec. 11; Serial No. 179,240; published Sept. 25, 1923.

Tiedemann, Theo., & Sons, Inc., New York, N. Y. Piece goods for casket linings and trimmings. 177,146; Dec. 11; Serial No. 151,725; published Mar. 6, 1923.

Triangle Thread Mills. (See Rothstein, Aaron.)

Ubiko Milling Company, The, Cincinnati, Ohio. Stock and poultry foods. 177,022; Dec. 11; Serial No. 165,902; published Aug. 7, 1923.

United States Products Corporation, San Francisco, Calif. Canned and dried fruits. 177,019; Dec. 11; Serial No. 166,331; published Sept. 25, 1923.

United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Felt slippers. 176,962; Dec. 11; Serial No. 177,753; published Sept. 18, 1923.

Universal Motor Company, Oshkosh, Wis. Internal-combustion engines. 177,097; Dec. 11; Serial No. 171,144; published Sept. 25, 1923.

Van Dyk, James, Co., New York, N. Y. Coffee substitute. 177,045; Dec. 11; Serial No. 180,457; published Sept. 25, 1923.

Van Dyk, James Co., New York, N. Y. Dairy and food products. 177,090; Dec. 11; Serial No. 172,623; published Sept. 25, 1923.

Vanity Fair Company, Memphis, Tenn. Face cream, face powder, lip pencil, rouge, shampoo, etc. 177,178; Dec. 11; Serial No. 180,991; published Sept. 18, 1923.

Vertex Hosiery Mills, Inc., Weissport, Pa. Hosiery. 177,250; Dec. 11; Serial No. 183,352; published Sept. 25, 1923.

Walker, A. R., Candy Corporation, Muskegon, Mich. Candy. 177,201; Dec. 11; Serial No. 179,074; published Sept. 25, 1923.

Walton Milling Company, Lansing, Mich. Breakfast cereals. 177,128; Dec. 11; Serial No. 142,369; published Sept. 25, 1923.

Wandel, W., Mfg. Co., Inc., New Orleans, La. Rust remover and preventive. 176,986; Dec. 11; Serial No. 179,573; published Sept. 11, 1923.

Ward Baking Company, New York, N. Y. Bread, cake, and a vitamine-containing product. 177,061; Dec. 11; Serial No. 168,183; published Aug. 21, 1923.

Waukesha Silurian Water Co., also doing business as Waukesha Spring Water Company, Waukesha, Wis. Still and carbonated water, ginger ale, root beer, etc. 177,193; Dec. 11; Serial No. 178,316; published Aug. 28, 1923.

"Weldrite" Company, Incorporated, Long Island City, N. Y. Welding wire and rods. 177,014; Dec. 11; 162,524; published Sept. 25, 1923.

Whinton Laboratories. (See Breon, George A.)

Whitney, Henry A., doing business as The Vigorex Co., Woonsocket, R. I. Beverage and a sirup for making same. 177,263; Dec. 11; Serial No. 168,285; published Sept. 18, 1923.

Wholesale Distributors Co., Chicago, Ill. Canned goods, chowchow, cider, olives, etc. 177,284; Dec. 11.

Wile, E. J., & Co., New York, N. Y. Woolen piece goods. 177,156; Dec. 11; Serial No. 181,926; published Sept. 11, 1923.

Williams-Richardson Company, Ltd., New Orleans, La. Hosiery, underwear, and shirts. 177,008; Dec. 11; Serial No. 149,881; published Aug. 7, 1923.

Wilsonville Roller Mills. (See Laux, John.)

Wilton Manufacturing Company, Inc., New York, N. Y. Cotton piece goods. 177,080; Dec. 11; Serial No. 183,786; published Sept. 18, 1923.
Winchell, M. M., Co., Pasadena, Calif. Corn salve. 177,057; Dec. 11; Serial No. 180,092; published Sept. 11, 1923.
Winston, Harper, Fisher Company, Minneapolis, Minn. Canned oysters, salmon, sardines, apricots, etc. 177,029; Dec. 11; Serial No. 166,120; published Aug. 7, 1923.
Wonder-Knit Mills, Union Hill, N. J. Sweaters, bathing suits, mufflers, etc. 177,259; Dec. 11; Serial No. 183,810; published Sept. 25, 1923.
Wonderlay Company, The. (See Getz, Vernon C.)
Wonderlay Milling Company, Indianapolis, Ind. Poultry feed. 176,958; Dec. 11; Serial No. 177,343; published Sept. 25, 1923.
Woolley, Daniel P., New York, N. Y. Bread. 177,119; Dec. 11. Serial No. 181,369; published Sept. 25, 1923.
Woolley, Daniel P., New York, N. Y. Bread. 177,120; Dec. 11; Serial No. 181,367; published Sept. 25, 1923.
Woolley, Daniel P., New York, N. Y. Bread. 177,121–2; Dec. 11; Serial Nos. 181,363–4; published Sept. 25, 1923.
Woolley, Daniel P., New York, N. Y. Bread. 177,123; Dec. 11; Serial No. 181,360; published Sept. 25, 1923.
Wopsy Poultry Yards. (See Parks, Joseph W.)
Wüsthof, Carl, Stahlwarenfabrik, Solingen, Germany. Knives, forks, spoons, razors, and scissors. 177,031; Dec. 11; Serial No. 162,707; published Sept. 25, 1923.
Young Folks Mfg. Co., New York, N. Y. Children's suits, wash suits, and play suits. 177,024; Dec. 11; Serial No. 164,528; published June 19, 1923.
Yount, Susie B., Louisville, Ky. System tonic. 177,212; Dec. 11; Serial No. 177,809; published Sept. 18, 1923.
Zinn Chemical Co., Oakland, Calif. Laxative sirup, horehound, honey, and tar sirup, blood purifier, etc. 177,182; Dec. 11; Serial No. 180,731; published Sept. 18, 1923.
Zucnutkandy Company, Newark, N. J. Candies. 177,157; Dec. 11; Serial No. 181,969; published Sept. 25, 1923.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Benedict, Victor E., Dallas, Tex. Barbers Hair Dressing. For Hair Dressing. 26,657; Dec. 11.
Beta-Pine Co., Brooklyn, N. Y. Beta-Pine. For Cough Sirup. 26,658; Dec. 11.
Blair, Francis J., Kalamazoo, Mich. Kewpee Hotels. For Sandwiches. 26,659; Dec. 11.
Brixton Manufacturing Company. (See Russo, Frank.)
Bunte Brothers, Chicago, Ill. Bunte Fine Hard Candies. For Cans for Containing Candy. 26,660; Dec. 11.
Bunte Brothers, Chicago, Ill. Bunte Diana Stuft Confections. For Cans for Containing Candy. 26,661; Dec. 11.
Bunte Brothers, Chicago, Ill. Bunte World Famous Candies. For Cans for Containing Candy. 26,662; Dec. 11.
Change-O-Doll Company, New York, N. Y. A Family of Dolls All from One Change-O-Doll and a few extra heads. For Dolls. 26,663; Dec. 11.
Coykendall, Inc., San Francisco, Calif. Ridgecrest. For Dried Prunes. 26,664; Dec. 11.
Duprez, Rosario, New York, N. Y. Les Produits de Beauté de Rosario Duprez New York. For Beauty Preparations. 26,665; Dec. 11.
Femina Importing Company, New York, N. Y. Magnet. For Hair Nets. 26,666; Dec. 11.
Fred A. Wish, Inc., New York, N. Y. Uncle Wiggily Crayola Color Box. For Crayon Boxes. 26,683; Dec. 11.
Fred A. Wish, Inc., New York, N. Y. Uncle Wiggily. For a Pull Toy. 26,684; Dec. 11.
Good Samaritan Company. (See Kelley, Howard E.)
Greenberg, Isaac, New York, N. Y. Standard Shirt. For Shirts. 26,667; Dec. 11.
Henard Mayonnaise Company, Nashville, Tenn. Sandwich Relish. For Relish. 26,668; Dec. 11.
Hess, Dr. Louis C., Chestertown, Md. Anestypticide. For a Local Preparation by That Name Having Anæsthetic, Styptic, and Antiseptic Properties. 26,669; Dec. 11.
Johnston United Chemical Co., The, Clare, Mich. It Is A Pleasure To Use Jack's Fly And Insect Mist. For A Preparation for Destroying Flies and Insects. 26,670; Dec. 11.
Kelley, Howard E., doing business as Good Samaritan Company, New York, N. Y. Good Samaritan Ointment. For Ointment. 26,671; Dec. 11.
Krueger, Richard G., New York, N. Y. Baby's Clothes Tree. For Babies' Clothes Trees. 26,672; Dec. 11.
Laura Hair Novelty Co. (See Thau, Charles K.)
Mason, Au & Magenheimer Confectionery Manufacturing Company, Brooklyn, N. Y. Mason's Almond Nougat Bars. For Candy. 26,673; Dec. 11.
Philadelphia Malt Extract Co., Philadelphia, Pa. Philadelphia Double Strength. For Malt Extract. 26,674; Dec. 11.
Quality Coffee & Tea Co., Inc., Los Angeles, Calif. El Contento. For Coffee. 26,675; Dec. 11.
Russo, Frank, doing business as Brixton Manufacturing Company, New York, N. Y. Dandrfall. For Hair Tonic. 26,676; Dec. 11.
Stege, Elmer T., St. Louis, Mo. Cleans and Polishes All-In-One Operation. For a Polish for Autos and Furniture. 66,677; Dec. 11.
Thau, Charles K., doing business as Laura Hair Novelty Co., New York, N. Y. The Laura Net. For Hair Nets. 26,678; Dec. 11.
Tutankhamen Laboratory. (See Wakelin, Helen.)
Wakelin, Helen, doing business as Tutankhamen Laboratory, Pittsburgh, Pa. Tut-Ankh-Amen Egyptian Beauty Clay. For White Beauty Clay. 26,679; Dec. 11.
Ward Baking Company, New York, N. Y. Ward's Sweet Rolls. For Rolls. 26,680; Dec. 11.
Ward Baking Company, New York, N. Y. Ward's Non-pareil Cakes. For Cake. 26,681; Dec. 11.
Weisbrod & Hess Brewing Company, doing business as Weisbrod & Hess, Philadelphia, Pa. Extra Dry (with a representation of a Peacock). For Ginger Ale. 26,682; Dec. 11.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

American Lead Pencil Company, New York, N. Y. Venus: The Largest Selling Quality Pencil in the World. For Pencils. 7,063; Dec. 11.
A. S. Hinds Co., Portland, Me. Protecting The Beautiful Complexion. For Honey and Almond Cream and Cremis Face Powder. 7,078; Dec. 11.
B. V. D. Company, Inc., The, New York, N. Y. Loose-Fitting B. V. D. Underwear. For Athletic Underwear. 7,064; Dec. 11.
Barclay & Co., New York, N. Y. Crema de Perlas de Barry. For Liquid Face Powder. 7,065; Dec. 11.
Barclay & Co., New York, N. Y. Tricófero Barry. For a Hair Tonic. 7,066; Dec. 11.
Barclay & Co., New York, N. Y. Pildoritas Reuter. For Liver Pills. 7,067; Dec. 11.
Cluett, Peabody & Co. Inc., Troy, N. Y. Arrow Collars and Shirts for Formal Dress. For Collars and Shirts. 7,068; Dec. 11.
Cluett, Peabody & Co. Inc., Troy, N. Y. Tuxara an Arrow Wing Collar—A Smart, etc. For Collars. 7,069; Dec. 11.
Cluett, Peabody & Co. Inc., Troy, N. Y. Arrow Shirts—The Arrow Shirts are distinguished for their better quality, etc. For Shirts. 7,070; Dec. 11.
Commonwealth Publishing Company, Chicago, Ill. As Others See It. For Income-Tax Records or Books. 7,071; Dec. 11.
Cream of Wheat Co., Minneapolis, Minn. To The Queen's Taste. For Wheat Breakfast Food. 7,072; Dec. 11.
Cream of Wheat Co., Minneapolis, Minn. Authorities call it the "neglected age." For Wheat Breakfast Food. 7,073; Dec. 11.
E. R. Squibb & Sons, New York, N. Y. Truth in Advertising Drug Products. For Drugs. 7,082; Dec. 11.
E. R. Squibb & Sons, New York, N. Y. The Danger Line There is a tiny ridge on the surface of your teeth. For Dental Cream. 7,083; Dec. 11.
E. R. Squibb & Sons, New York, N. Y. Fight Acid-Erosion at "The Danger Line" If you want sound teeth and healthy gums. For Dental Cream. 7,084; Dec. 11.
E. R. Squibb & Sons, New York, N. Y. Only in Italy is found such talc—only Squibb brings such a talcum to you. For Talcum and Cold Cream. 7,085; Dec. 11.
H. J. Heinz Co., Pittsburgh, Pa. Olives from Spain—From Seville, in sunny Spain, etc. For Heinz 57 Varieties. 7,076; Dec. 11.
H. J. Heinz Co., Pittsburgh, Pa. 56 is just a number—58 is just a number, etc. For Heinz 57 Varieties. 7,077; Dec. 11.
"Onyx" Hosiery, Inc., New York, N. Y. Under the keen appraisal of scores of critical eyes. For Hosiery. 7,079; Dec. 11.
Packman, Michael, Atlantic City, N. J. Baby Eggs. For Eggs. 7,080; Dec. 11.
Palmolive Company, Milwaukee, Wis. What the eyes of others see. For Palmolive Soap. 7,081; Dec. 11.
The Estey Organ Company, Brattleboro, Vt. There is something about the presence of a pipe organ in a home that gives the house a distinction, etc. For Estey Organs. 7,074; Dec. 11.
The Estey Organ Company, Brattleboro, Vt. The Estey Residence Pipe Organ—Greatest of all instruments of music is the Organ, etc. For Estey Organs. 7,075; Dec. 11.
Towle Manufacturing Co., Newburyport, Mass. Solid Silver—Precious thro the Ages. For Solid Silverware. 7,086; Dec. 11.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abraham & Straus, Inc., New York, N. Y. Phonographs. 186,685; Dec. 11.
Acme White Lead & Color Works, Hamtramck, Mich. Bronze, dry, etc., colors, driers, enamels, etc. 185,853; Dec. 11.
Adams & Jewell, Rome, N. Y. Refractory paints. 187,599; Dec. 11.
Aerobelle Company, Worcester, Mass. Shock absorbers. 186,041; Dec. 11.
Allegheny Steel Company, Brackenridge, Pa. Steel and iron sheets and plates, ingot molds, etc. 165,518; Dec. 11.
Allegheny Steel Company, Brackenridge, Pa. Journal boxes and lids, railway cars, etc. 169,795; Dec. 11.
Allen, Samuel L., doing business as Phoenix Drug Store, Monroe, La. Corn remedy. 185,399; Dec. 11.
Ambrosia Chocolate Co., Milwaukee, Wis. Candy. 171,888; Dec. 11.
American Skein & Foundry Company, Racine, Wis. Piano plates. 186,454; Dec. 11.
American Stove Company, St. Louis, Mo. Gas, coal, oil, and gasoline stoves. 181,330; Dec. 11.
Anderson, Embry E., Memphis, Tenn. Oats for use as stock feed. 175,836; Dec. 11.
Andron Hygienic Company, New York, N. Y. Soap cream for shaving. 186,264–5; Dec. 11.
Appleton Company, Lowell, Mass. Cotton piece goods. 186,819–21; Dec. 11.
Arizona Lacquer Mfg. Co., Inc., Brooklyn, N. Y. Lacquers, lacquer enamels, thinners, etc. 186,768; Dec. 11.
Atlantic Blotting Paper Mills Co. (See Ellerson, Henry W.)
Atlantic Mills, Stottville, N. Y. Woolen piece goods. 186,406; Dec. 11.
Augusta Knitting Corporation, Utica, N. Y. Ladies' union suits and vests and bathing suits. 174,283; Dec. 11.
Autoeez Manufacturing Company. (See Cannan, Cecil C.)
Autographic Register Company, Hoboken, N. J. Autographic registers and parts thereof. 186,266; Dec. 11.
Babani, Maurice, Paris, France. Perfume extracts, lotions, toilet waters, etc. 185,912; Dec. 11.
Baden, Fred, Inc., New York, N. Y. Nose irrigation and throat gargle. 185,810; Dec. 11.
Bastian-Morley Co., Laporte, Ind. Jackets for water heaters and boilers. 185,102; Dec. 11.
Beck, Arthur, Chicago, Ill. Flavoring extracts for food purposes. 146,196; Dec. 11.
Beck, Ernst, Lebanon, Mo. Eggs. 178,808; Dec. 11.
Beckert, Richard E., doing business as S. M. Spencer Mfg. Co., Boston, Mass. Stencil inks. 183,134; Dec. 11.
Behlen, H., & Bro., New York, N. Y. Ruling, edge, and marbling colors, and marbling sizes. 185,285; Dec. 11.
Bender Company, The, Milwaukee, Wis. Working clothes for men and boys. 184,633; Dec. 11.
Berbecker & Rowland Mfg. Co., The, Waterville, Conn. Furniture slides. 172,317; Dec. 11.
Berger, Joe R., doing business as Joe R. Berger Food Products Company, Cincinnati, Ohio. Mayonnaise, salad and cooking oil, olive oil, and tartar sauce. 180,649; Dec. 11.
Berkenfield, Irving, doing business as Field Laboratories, Erie, Pa. Hair tonic and restorer. 183,135; Dec. 11.
Berlin & Jones Company, Inc., New York, N. Y. Stationery. 176,782; Dec. 11.
Betsy Ross Candy Shops. (See Frawley, Josephine B.)
Better Times, Inc., New York, N. Y. Printed periodical. 187,372; Dec. 11.
Betterton-Rupert Coffee Co., Ashland, Ky. Coffee. 183,903; Dec. 11.
Bibby, J., & Sons Limited, Liverpool, England. Food for cattle. 175,913; Dec. 11.
Birk, Walter O., Candy Company, Chicago, Ill. Candy. 169,525; Dec. 11.
Blake, Moffitt & Towne, San Francisco, Calif. Wrapping paper. 187,286; Dec. 11.
Blake, Moffitt & Towne, San Francisco, Calif. Greaseproof paper. 187,292; Dec. 11.
Blue Ridge Manufacturing Company, Incorporated, Alexandria, Va. Work shirts, trousers, and overalls. 177,822; Dec. 11.
Blue Ridge Manufacturing Company, Incorporated, Alexandria, Va. Work shirts, trousers, and overalls. 177,824; Dec. 11.
Blumenthal, Edwin M., doing business as E. M. Blumenthal & Co., Chicago, Ill. Bottle crowns. 186,100; Dec. 11.
Bonwit Teller & Co., New York, N. Y. Corsets. 185,741; Dec. 11.
Borgfeldt, George, & Co., New York, N. Y. Blankets and rugs. 186,461–2; Dec. 11.
Boss Manufacturing Company, The, Kewanee, Ill., and Brooklyn, N. Y. Gloves and mittens. 165,056; Dec. 11.
Boss Manufacturing Company, The, Kewanee, Ill. Gloves and mittens. 185,743; Dec. 11.
Bradley, Milton, Company, Springfield, Mass. Crayons. 186,435; Dec. 11.
Bradley, Milton, Company, Springfield, Mass. Crayons. 186,437–8; Dec. 11.
Brooks, Lester L., doing business as Betty Brooks Apron Co., Los Angeles, Calif. Women's and children's aprons, dresses, house dresses, porch frocks, and coats. 182,561; Dec. 11.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Brown, Lockwood & Davenport Company, Boston, Mass. Monthly publication. 186,214; Dec. 11.
Brown, S. W., Co., Inc., Glendale, Calif. Chocolate malted milk. 185,556; Dec. 11.
California Laboratories, Inc., Los Angeles, Calif. Flavoring extracts. 184,588; Dec. 11.
Campbell, Joseph, Company, assignor to Campbell Soup Company, Camden, N. J. Canned vegetables. 172,369; Dec. 11.
Cannan, Cecil C., doing business as Autocez Manufacturing Company, Houston, Tex. Shock absorbers. 182,331; Dec. 11.
Capitol Chemical Co., Montpelier, Vt. External application for asthma, bronchitis, coughs, etc. 185,562; Dec. 11.
Capiellanti, Harry, Morgantown, W. Va. Gas-flow alarms. 186,350; Dec. 11.
Carbide & Carbon Chemicals Corporation, New York, N. Y. Compressed gas for heating, lighting, and power purposes. 185,652; Dec. 11.
Carman, Harriet F., Elkins Park, Pa. Face powders, face creams, perfumes, etc. 185,410; Dec. 11.
Carson Pirie Scott & Co., Chicago, Ill. Ladies' silk gloves. 185,363; Dec. 11.
Caulk, L. D., Company, The, Milford, Del. Medicated cream or ointment for use in the treatment of diseases and disorders of the skin and scalp. 185,813; Dec. 11.
Caulk, L. D., Company, The, Milford, Del. Antiseptic and germicidal preparation for use as a mouth wash, gargle, etc. 185,565; Dec. 11.
Centemeri, P., & Co., New York, N. Y. Leather and fabric gloves. 185,429; Dec. 11.
Centemeri, P., & Co., New York, N. Y. Leather and fabric gloves. 185,430; Dec. 11.
Central Scientific Company, Chicago, Ill. Sulpho-chromic salts for making battery fluids. 185,447; Dec. 11.
Chandler River Co-Operative Canning Association, Jonesboro, Me. Canned blueberries. 180,208; Dec. 11.
Channell Chemical Company, Chicago, Ill.; Toronto, Ontario, Canada; London, England; and Paris, France. Cleaning and polishing preparations. 175,345; Dec. 11.
Channell Chemical Company, Chicago, Ill.; Toronto, Ontario, Canada; London, England; and Paris, France. Polish and cleaner for furniture, pianos, linoleum, etc. 175,346; Dec. 11.
Cheerl-o Shoppe. (See Rodiger, Walter G.)
Chesterfield Shirt Company, Louisville, Ky. Men's and boys' dress shirts and men's athletic underwear. 184,019; Dec. 11.
Cohn, Leon, doing business as Parfumerie Forest, Paris, France. Perfumes, toilet waters, face creams, etc. 186,217; Dec. 11.
Colonial Mush Company, Chicago, Ill. Corn-meal mush and Philadelphia scrapple. 180,964; Dec. 11.
Continental Rock Asphalt Company, Kansas City, Mo. Rock asphalt. 173,178; Dec. 11.
Coty, Inc., Wilmington, Del., and New York, N. Y. Perfume, toilet water, face and talcum powder, etc. 180,107; Dec. 11.
Crescent Belt Fastener Company, New York, N. Y. Rivets. 169,200; Dec. 11.
Crescent Belt Fastener Company, New York, N. Y. Extractors and belt clamps. 169,201; Dec. 11.
Cushman's Sons, Inc., New York, N. Y. Bread. 173,073; Dec. 11.
Daltroff, E., & Cie., Paris, France. Soaps, soap pastes, and powders. 186,110; Dec. 11.
Davis-Cleaver Produce Company, Quincy, Ill. Butter. 180,845; Dec. 11.
Deane Plaster Co., The, Yonkers, N. Y. Antiseptic dressings, plain, absorbent, and medicated cottons and gauzes, etc. 175,306; Dec. 11.
De Soria, Roger, Clichy, France. Perfumes, toilet water, face and talcum powders, etc. 185,961; Dec. 11.
Dial, George H., doing business as Dial Tent & Awning Co., Columbus, Ohio. Tents. 187,205; Dec. 11.
Dingfelder & Rulish, New York, N. Y. Fresh onions. 184,659; Dec. 11.
Distillator, H. L., & Son, Inc., New York, N. Y. Ladies' hats 183,221; Dec. 11.
Dorsch, Peter M., Washington, D. C. Bread and rolls. 160,875; Dec. 11.
Easton, Henry P. jr., doing business as Easton Odor-Lue Co., Denver, Colo. Odor-preventing preparation. 186,358; Dec. 11.
Eaton Axle & Spring Company, The, Cleveland, Ohio. Automobile bumper. 186,632; Dec. 11.
Elephant Studios, San Francisco, Calif. Artists' sets for children. 165,622; Dec. 11.
Ellenbogen, Sidney A., Paterson, N. J. Wearing apparel. 186,546; Dec. 11.
Ellerson, Henry W., doing business as Atlantic Blotting Paper Mills Co., Richmond, Va. Blotting paper. 183,820; Dec. 11.
Empire Cheese Company, New York, N. Y. Cheese. 157,092; Dec. 11
Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. 186,547; Dec. 11.
Epperson, Frank W., Oakland, Calif. Frozen confections 180,330; Dec. 11.
Erbjus Remedy Company, The (See Walton, T. G. Company.)
European Export Corporation, The, Washington, D. C. Olive oil. 185,748; Dec. 11.
Everts, Walter W., assignor to Everts Angle Razor Corporation, New York, N. Y. Safety razors, blades, and parts thereof. 185,078; Dec. 11.
Farbenfabriken vorm. Friedr. Bayer & Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Remedy for enteric disturbances. 185,573; Dec. 11.
Farbenfabriken vorm. Friedr. Bayer & Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Expectorant for the treatment of acute and chronic affections of the lungs. 185,574; Dec. 11.
Farm Implement Publishing Co. (See Walker, Platt B.)
Faxon & Gallagher Drug Co., Kansas City, Mo. Liniment. 185,575; Dec. 11.
Fiberfold Corporation, The, Indian Orchard, Mass. Cellulose lacquer. 187,613; Dec. 11.
Field Laboratories. (See Berkenfield, Irving.)
Fig-Products Company of California. (See Schmidt, Carl.)
Finch, Van Slyck & McConville, St. Paul, Minn. Work shirts. 183,368; Dec. 11.
Fischer, B., & Co., Inc., New York, N. Y. Containers for coffee, tea, spices, rice, etc. 154,181; Dec. 11.
Fitger Company, The, Duluth, Minn. Chocolate creams. 171,166; Dec. 11.
Foot Remedy Company, Chicago, Ill. Foot appliances or orthopedic pads or cushions. 187,103; Dec. 11.
Forster Music Publisher, Inc., Chicago, Ill. Sheet music. 183,828; Dec. 11.
Frawley, Josephine B., doing business as Betsy Ross Candy Shops; Mrs. Frawley's Betsy Ross Candy Shops, and Mrs. Frawley's Candy, Indianapolis, Ind. Candy. 185,514; Dec. 11.
French American Mfg. Co. (See Klekner, Albert.)
"Friend" Manufacturing Co., Gasport, N. Y. Insecticide sprayers and parts therefor; 176,823; Dec. 11.
Frohlichstein, Harvey, St. Louis, Mo. Children's and infants' wearing apparel. 182,796; Dec. 11.
Fruit Haven Farm, Woodbury, Ga. Fresh peaches. 166,053; Dec. 11.
Funsten Brothers & Company, St. Louis, Mo. Catalogues and price lists. 187,306; Dec. 11.
Garneau, Jos., Co., Inc., The, New York, N. Y. Canned fish. 186,899; Dec. 11.
Gibson, Guy T., Incorporated, New York, N. Y. Toilet lotions, powders, creams, waters, sachets, etc. 185,698–9; Dec. 11.
Globe Soap Company, The, Cincinnati, Ohio. Soap. 186,363; Dec. 11.
Goldberg, Max, & Co., Inc., New York, N. Y. Work shirts. 186,748; Dec. 11.
Gordon Baking Co., Chicago, Ill. Bread. 177,666; Dec. 11.
Gordon, Maurice, Baltimore, Md. Mattresses, pillows, and box springs. 183,923; Dec. 11.
Gould, Geo. H., & Son, Louisville, Ky. Perfume suitable for driving off mosquitoes or similar insects. 185,457; Dec. 11.
Grand Union Tea Co., Brooklyn, N. Y. Soap creams. 184,497; Dec. 11.
Green, Ada, St. Louis, Mo. Pile remedy. 172,039; Dec. 11.
Greenebaum, Weil & Michels, San Francisco, Calif. Bed and crib blankets. 185,917; Dec. 11.
Gsell, R., & Co., Inc., New York, N. Y. Watches, watchcases, watch movements, etc. 181,274; Dec. 11.
Gudebrod Bros. Silk Co., New York, N. Y. Silk threads and yarns. 179,721; Dec. 11.
Hance Brothers & White Incorporated, doing business as Marshall-King Laboratories, Philadelphia, Pa. Nutrient tonic. 185,519; Dec. 11.
Handy, Herbert L., Springfield, Mass. Meat products. 171,079; Dec. 11.
Harding, Mabel, doing business as Karavan Packing Co., Philadelphia, Pa. Canned goods, jam, olive oil, olives. 164,912; Dec. 11.
Herzog, Theodore, Los Angeles, Calif. Dance-floor dressing. 184,243; Dec. 11.
Heuer, George A., Bellaire, N. Y. Preservative for pound and trap nets. 186,231; Dec. 11.
Hiergesell Brothers, Philadelphia, Pa. Calibrated surgical and clinical syringes. 180,662; Dec. 11.
Hiergesell Brothers, Philadelphia, Pa. Laboratory, chemical, and surgical glassware. 180,663; Dec. 11.
Highland Hereford Breeder's Association, Marfa, Tex. Live calves and yearlings. 185,785; Dec. 11.
Hinton, Mary, St. Louis, Mo. Polish for automobiles, pianos, furniture, and woodwork. 185,181; Dec. 11.
Hofheimer Brothers Company, Norfolk, Va. Shoes. 183,626; Dec. 11.
Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. 186,376–7; Dec. 11.
Holt & Company, New York, N. Y. Wheat flour. 115,504; Dec. 11.
Hood, H. P., & Sons, Inc., Boston, Mass. Butter, dried beans, bread, etc. 146,213; Dec. 11.
Houbigant, Inc., New York, N. Y. Perfume, toilet water, face powder, sachet, etc. 185,459–63; Dec. 11.

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Howard Iron Works, Buffalo, N. Y. Expansion joints for pipe lines. 186,233; Dec. 11.
Hudnut, Richard, New York, N. Y. Sachet, tooth powder, cold cream, etc. 186,188–91; Dec. 1.
I. C. Candy Co., Brooklyn, N. Y. Candies. 186,791; Dec. 11.
Illustrated Daily News Publishing Co., Inc., Los Angeles, Calif. Title for comic newspaper strip. 187,162; Dec. 11.
Jackson-Rogers Company, The, Brooklyn, N. Y. Shampoo for the hair. 185,871; Dec. 11.
Jansen & Pretzfeld, Inc., New York, N. Y. Silks in the piece. 186,710; Dec. 11.
Johns-Manville, Incorporated, New York, N. Y. Cotton cloth for use as an acoustical membrane. 183,977; Dec. 11.
Johnson, Edward S., Wellesley Hills, Mass. Bath salts. 186,236; Dec. 11.
Jordeau, Jean, Inc., South Orange, N. J., and New York, N. Y. Depilatory. 185,709; Dec. 11.
Kalamazoo Ice & Fuel Company, Kalamazoo, Mich. Coal. 185,595; Dec. 11.
Karagheusian, A. & M., Inc., New York, N. Y. Carpets and textile rugs. 186,554–5; Dec. 11.
Karavan Packing Co. (See Harding, Mabel.)
Katz Bros. Leather Goods Co., New York, N. Y. Traveling bags, suitcases, and hatboxes. 186,843; Dec. 11.
Kaufmann, Wm., Geneva, Switzerland. Watches and parts thereof. 182,917; Dec. 11.
Kellogg's Pep & Zep Products, Inc., New York, N. Y. Cereal breakfast food. 182,543; Dec. 11.
Keystone Refractories Company, Jersey City, N. J. Canister. 184,944; Dec. 11.
Kirschbaum, A. B., Company, Philadelphia, Pa. Men's and young men's outer suits. 182,709; Dec. 11.
Klekner, Albert, doing business as French American Mfg. Co., New York, N. Y. Tapestries, panels, center pieces and runners. 176,410; Dec. 11.
Klensch, J. W., & Co., Incorporated, New York, N. Y. Cheese. 159,709; Dec. 11.
Kokomo Automotive Mfg. Co., Kokomo, Ind. Automobile rear-view mirrors and windshield wings. 186,278–9; Dec. 11.
Kroudvird, Abram, New Bedford, Mass. Bread. 178,048; Dec. 11.
Lewis, J. P., Company, Beaver Falls, N. Y. Ticket bristol. 168,474; Dec. 11.
Liberty Lace and Netting Works, New York, N. Y. Silk and cotton laces, nets and nettings, and veils and veilings, all in the piece. 185,663; Dec. 11.
Listerated Gum Corporation, New York, N. Y. Chewing gum. 184,977–8; Dec. 11.
Lodi Mill & Elevator Co., The (now by change of name The Lodi Cereal Company), Lodi, Ohio. Cereal or breakfast foods. 169,552; Dec. 11.
Lournay, Inc., Milwaukee, Wis. Chemicals, medicines, and pharmaceutical preparations. 177,234; Dec. 11.
Lubbers and Bell Manufacturing Company, Clinton, Iowa. Fly swatters. 187,325–6; Dec. 11.
McCall Groniger Co., Cincinnati, Ohio. Fruit-nut sandwich. 176,414; Dec. 11.
McCrea Mfg. Co., Minneapolis, Minn. Commercial cab bodies. 173,572; Dec. 11.
McCurrach, James, & Brother, New York, N. Y. Neckties. 186,655; Dec. 11.
Maatschappij tot Exploitatie van Rademaker's Koninklijke Cacao en Chocolade Fabrieken, The Hague, Netherlands. Chocolate candy. 166,532; Dec. 11.
Macfadden Publications, Inc., New York, N. Y. Monthly magazine. 186,847; Dec. 11.
Macy, R. H., & Co., Inc., New York, N. Y. Men's and young men's overcoats. 186,146; Dec. 11.
Maine Seed Potato Growers. (See Phillips & Company.)
Mannesmannröhren Werke, Dusseldorf, Germany. Steam boilers and condensers, hot-air and hot-water furnaces, etc. 163,695. Dec. 11.
Marshall-King Laboratories. (See Hance Brothers & White Incorporated.)
Mary Louise. (See Plumbridge, Charles H.)
Massachusetts Baking Company, doing business as Six Bakers, Springfield, Mass. Bread. 174,582; Dec. 11.
Meadows Mfg. Co., Bloomington, Ill. Washing machines for laundry purposes. 178,053; Dec. 11.
Medico-Dental Specialty Co., San Diego, Calif. Preparation for the treatment of pyorrhea alveolaris. 185,605; Dec. 11.
Mendell, Jacob, doing business as J. Mendell Candy Co., Brooklyn, N. Y. Candy. 184,343; Dec. 11.
Menner, William, Newark, N. J. Ointments and plasters for healing wounds, cuts, etc. 177,311; Dec. 11.
Merle Laboratories, Leeper, Pa. Face powder, talcum powder, cold and vanishing creams, etc. 185,530; Dec. 11.
Mestre, Lillian, New York, N. Y. Compound for cleansing and polishing woodwork, furniture, etc. 185,759; Dec. 11.
Miller Brothers Company, Chattanooga, Tenn. Men's and women's hosiery. 184,980; Dec. 11.
Miller, R. T., jr., Chicago, Ill. Monthly magazine. 186,603; Dec. 11.
Mills, James, Orchards Corporation, Hamilton City, Calif. Fresh citrous fruits and pears. 186,796; Dec. 11.
Mills, James, Orchards Corporation, Hamilton City, Calif. Oranges and lemons. 186,797; Dec. 11.
Mme. Ise'Bell's Toilet Mfg. Co. (See Plough Chemical Co.)
Montgomery Ward & Co., Chicago, Ill. Incubators and brooders. 187,144; Dec. 11.
Moss, Edgar A., Marion, Ind. Newspaper columns. 186,243; Dec. 11.
Nardi Magazine Pencil Co., Camden, N. J. Pencils. 172,428; Dec. 11.
National Renovating & Supply Co., Kansas City, Mo. Furniture and automobile polish. 185,138; Dec. 11.
National Renovating & Supply Co., Kansas City, Mo. Cleansing and disinfectant compounds for floors. 185,140; Dec. 11.
National Save The Surface Campaign Committee, The, doing business as Save The Surface Campaign, Philadelphia, Pa. Paint and varnish monthly publication. 184,560; Dec. 11.
Nelson Meat Company, San Francisco, Calif. Bacon, hams, lard, sausage. 182,519; Dec. 11.
Norfolk Police Social and Relief Association, The, Norfolk, Va. Name of a monthly publication. 185,903; Dec. 11.
Norris, Viola B., Montclair, N. J. Candy. 185,259; Dec. 11.
Ontario Milling Company, Incorporated, Oswego, N. Y. Dairy feeds. 160,297; Dec. 11.
Os-Da Company, The, New York, N. Y. Pearl or imitation-pearl necklaces. 186,664; Dec. 11.
Pabst Farms, Summit and Oconomowoc, assignor to Pabst Holstein Farms, Milwaukee, Wis. Cheese. 181,495; Dec. 11.
Pabst Holstein Farms. (See Pabst Farms, assignor.)
Page Organ Co., The, Lima, Ohio. Organs and attachments for playing organs. 187,122; Dec. 11.
Pangburn Company, also doing business as Pangburn's, Fort Worth, Tex. Candy. 183,538; Dec. 11.
Parfumerie Anthemys (S. A.), Cauderan, France. Dentifrices. 168,730; Dec. 11.
Parfumerie Forest. (See Cohn, Leon.)
Paulus, Richard, Freiburg, Germany. Preparation for cleaning stringed instruments. 185,146; Dec. 11.
Peuberthy Injector Company, Detroit, Mich. Pumps, atomizers, carburetors, etc. 161,061; Dec. 11.
Phillips & Company, Inc., doing business as Maine Seed Potato Growers, Boston, Mass. Table potatoes. 185,643; Dec. 11.
Phillips & Company, Inc., doing business as Maine Seed Potato Growers, Boston, Mass. Seed potatoes. 185,644–5; Dec. 11.
Phillips & Company, Inc., doing business as Maine Seed Potato Growers, Boston, Mass. Table potatoes. 185,646; Dec. 11.
Phoenix Drug Store. (See Allen, Samuel L.)
Phoenix Leather Goods Co., New York, N. Y. Leather goods and leather novelties. 186,445; Dec. 11.
Phospho Food Co. Inc., Los Angeles, Calif. Breakfast cereal and remedial food. 165,716; Dec. 11.
Pioneer Products Co., The, Dayton, Ohio. Preparation for cleaning and removing stains from painted surfaces, tile, rugs, etc. 181,308; Dec. 11.
Pioneer Products Co., The, Dayton, Ohio. Preparation for cleaning and removing stains from painted surfaces, tile, carpet, etc. 181,508; Dec. 11.
Plough Chemical Company, doing business as Mme. Ise'Bell's Toilet Mfg. Co., Memphis, Tenn. Toilet preparations. 186,391; Dec. 11.
Plumbridge, Charles H., doing business as Mary Louise, New York, N. Y. Women's and misses' dresses. 186,070; Dec. 11.
Polansky, Arpad, Douglastown, N. Y. Cosmetic powder and rouge. 177,324; Dec. 11.
Pond's Extract Company, New York, N. Y. Cold cream. 185,377; Dec. 11.
Pond's Extract Company, New York, N. Y. Vanishing cream. 185,378; Dec. 11.
Portland Flour Mills Co., Portland, Oreg. Wheat flour. 182,175; Dec. 11.
Porzellanfabrik Ph. Rosenthal & Co., A. G., Berlin, Germany. Crockery, earthenware, and porcelain. 186,329; Dec. 11.
Poulsen, Dana C., Santa Rosa, Calif. Fountain syringes, hotwater bags, and water bags. 175,156; Dec. 11.
Press Publishing Company, New York, N. Y. Title of a column in a newspaper. 186,613; Dec. 11.
Pullman Company, The, Chicago, Ill. Automobile bodies. 187,267; Dec. 11.
Purity Maid Products Company, New Albany, Ind. Fresh milk and cream, butter, cheese, and ice cream. 181,775; Dec. 11.
R & W Hat Shop, Inc., Norwalk, Conn. Clothing. 185,673; Dec. 11.
Recreation Distributing Co., New York, N. Y. Knitted sport coats. 183,892; Dec. 11.
Regal Record Company, New York, N. Y. Phonograph records. 182,485; Dec. 11.
Remiller Co., The, New York, N. Y. Lip rouge. 186,292; Dec. 11.

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Robinson Silk Company, Inc., New York and Astoria, N. Y. Silk piece goods. 186,159; Dec. 11.
Rodiger, Walter G., doing business as Cheeri-o Shoppe, Pasadena, Calif. Candy. 182,997; Dec. 11.
Roosa & Ratliff Chemical Co., The, also doing business as Roosa & Ratliff Perfume Co., Cincinnati, Ohio. Perfume, cold cream, hair oil, shampoo, etc. 185,621; Dec. 11.
Rosenberg Bros. & Co., San Francisco, Calif. Rice and rice flour. 161,062; Dec. 11.
Rosenberg & Co., Inc., New York, N. Y. Pearls. 186,484; Dec. 11.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Women's, children's, and infants' coats, cloaks, capes, etc. 186,616; Dec. 11.
Sands & Ross, Inc., New York, N. Y. Aniline dye soluble in water employed as bluing. 186,447; Dec. 11.
Sanitary Rubber Novelty Co., The, Chicago, Ill. Bibs. 171,869; Dec. 11.
Save The Surface Campaign. (See National Save The Surface Campaign Committee.)
Schmidt, Carl, doing business as Fig Products Company of California, Figarden, Calif. Preserved figs and fig butter. 181,913; Dec. 11.
Schmidt, Fitz-Gibbon Co., Inc., New York, N. Y. Handkerchiefs. 186,448; Dec. 11.
Schoedinger, F. O., Columbus, Ohio. Linen and clothes hampers, trays, cans, corncribs, etc. 172,178; Dec. 11.
Schreter, Adolf, Baltimore, Md. Neckties. 186,804; Dec. 11.
Science Service, Inc., Washington, D. C. Title to syndicated scientific news articles and publications. 186,039; Dec. 11.
Scotford, Baron H., Atlantic City, N. J. Animated-shadow-casting devices for use as novelties, etc. 161,653; Dec. 11.
Scott's Preparations, Inc., New York, N. Y. Beauty clay, face finish and powder, cold and vanishing creams. 186,161; Dec. 11.
Sears, Roebuck and Co., Chicago, Ill. Fountain pens. 187,136; Dec. 11.
Shepardson, Merton A., Springfield, Mass. Pure flavoring extracts, imitation flavoring extracts, paste vanillas, etc. 159,623; Dec. 11.
Shiffer Products Company, The, Cleveland, Ohio. Automobile soap. 185,846; Dec. 11.
Shirek & Hirsch, New York, N. Y. Outer garments. 180,030; Dec. 11.
Shotwell Mfg. Co., The, Chicago, Ill. Chocolate-covered candy bar. 158,898; Dec. 11.
Six Bakers. (See Massachusetts Baking Company.)
Smith, Charles C., New York, N. Y. Knitted bathing suits. 186,252; Dec. 11.
Snyderize Co., The, Hanford, Calif. Preparation for preserving, softening, and waterproofing leathers. 185,318; Dec. 11.
Spencer, S. M., Mfg. Co. (See Beckert, Richard E.)
Spinelli, Nick F., New York, N. Y. Fruit ice cream. 183,170; Dec. 11.
Staley, A. E., Manufacturing Company, Decatur, Ill. Corn sugar. 179,687; Dec. 11.
Standard Nut Margarine Co., Indianapolis, Ind. Oleomargarine. 161,649; Dec. 11.
Standard Slide Corporation, New York, N. Y. Automatic changeable sign-display machines, etc. 186,032; Dec. 11.
Stanisits, Vilma, Rockville Center, N. Y. Preserved meats. 178,148; Dec. 11.
Star Chick Hatchery, Washington Township, Osage County, and Westphalia, Mo. Baby chicks and eggs. 176,508; Dec. 11.
Stavros, James R., West Orange, N. J. Medicine for dissolving gallstones. 185,322; Dec. 11.
Stephens, Franklin, Atlantic City, N. J. Hand soaps. 151,104; Dec. 11.
Sterling Tire Corporation, Rutherford, N. J. Tire casings. 183,414; Dec. 11.
Street & Smith Corporation, New York, N. Y. Magazines. 186,166; Dec. 11.
Strohmeyer & Arpe Company, also doing business as United Pure Food Co., New York, N. Y. Salad oils. 186,089; Dec. 11.
Sun Zone Company, Paris, Ky. Liniment. 185,767; Dec. 11.
Surbrug, John W., doing business as Surbrug Chocolate Corporation, New York, N. Y. Candy. 174,220; Dec. 11.
Surgeons Specialty Company, The, Cincinnati, Ohio. Bed jacks. 165,419; Dec. 11.
Syracuse Dry Goods Company, Syracuse, N. Y. Knitted or textile union suits, vests, pants, and hosiery. 172,808; Dec. 11.
Tamal Packing Co., San Francisco, Calif. Canned fruits and vegetables. 181,919–20; Dec. 11.
Tawas Candy Company. (See Widdis, Albert.)
Travis, Romaine & Jelle, Inc., New York, N. Y. Silk crapes in the piece. 186,305; Dec. 11.
Tribune Company, The, Chicago, Ill. Weekly supplement for a newspaper magazine. 169,992; Dec. 11.
Truscon Steel Company, doing business as The Truscon Laboratories, Detroit, Mich. Paint, oil, oleo-resinous and varnish enamels, stains, etc. 179,244; Dec. 11.
U. S. Sanitary Specialties Corporation, Chicago, Ill. Deodorant and disinfectant. 185,732; Dec. 11.
Union Gas Engine Co., Oakland, Calif. Diesel engines. 184,923; Dec. 11.
United Pure Food Co. (See Strohmeyer & Arpe Company.)
Valecia Evaporated Milk Co., Madison, Wis. Evaporated skimmed milk. 185,941; Dec. 11.
Van der Heyden a Hauzeur, L., Paris, France. Organs, pianos, harps, and parts of such instruments. 182,312; Dec. 11.
Vander Wheelen, Samuel, New York, N. Y. Preparation for the treatment of rheumatism, lumbago, etc. 183,013; Dec. 11.
Van Exen, Arsene J., New York, N. Y. Pearls and precious stones and jewelry in which they are mounted. 168,182; Dec. 11.
Velsch & Holtz, Paris, France. Perfumes, toilet waters, eau de Cologne, brilliantine, etc. 185,638; Dec. 11.
Ventlock Company, The. (See Wheelock, Arthur C.)
Vibro-Dental Products Incorporated, Philadelphia, Pa. Dental cream. 186,259; Dec. 11.
Wabash Cabinet Co., The, Wabash, Ind. Vertical filing folders and guides. 186,970; Dec. 11.
Wadhams Oil Company, Milwaukee, Wis. Lubricant for pipe-thread connections. 186,860; Dec. 11.
Walker, Platt B., doing business as Farm Implement Publishing Co., Minneapolis, Minn. Publication. 185,885; Dec. 11.
Wallerstein Plantations, Inc., New York, N. Y. Fresh citrous fruits and fresh vegetables. 177,532; Dec. 11.
Walton, T. G., Company, The, doing business as The Erbjus Remedy Company, Bridgeport, Conn. Medical tonics. 185,391–2; Dec. 11.
Warren Refining & Chemical Company, The, Cleveland, Ohio. Lubricating oils. 186,035; Dec. 11.
Warren Soap Manufacturing Company, Boston, Mass. Soap. 166,966; Dec. 11.
Weber and Heilbroner, New York, N. Y. Men's hats. 185,805; Dec. 11.
Wendling, George X., Los Angeles, Calif. Nails and staples. 185,683; Dec. 11.
Western Canada Flour Mills Company, Limited, Toronto, Ontario, Canada. Poultry feed. 179,839; Dec. 11.
Wheelock, Arthur C., doing business as The Ventlock Company, Oakland, Calif. Window fasteners. 185,068; Dec. 11.
White City Candy Mfg. Co., Inc., New Haven, Conn. Candy. 184,881; Dec. 11.
Whitehead, Howard C., Salem, N. J. Potatoes. 180,915; Dec. 11.
Whitney & Davis Company, Plainville, Mass. Metal plates for removing foreign matter from or in cleansing metal ware. 185,275; Dec. 11.
Widdis, Albert, doing business as Tawas Candy Company, Tawas City, Mich. Candy. 184,777; Dec. 11.
Wise, Ira O., Marionville, Mo. Butter. 178,650; Dec. 11.
Wood, J. R., & Sons, New York, N. Y. Finger rings. 186,344; Dec. 11.
Woodford, Elliott C., doing business as The Woodford Pharmacy, Owego, N. Y. Ointment for the treatment of colds, bronchitis, catarrh, etc. 185,641; Dec. 11.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 4.

Belting, Preparation for preserving, etc. Magic Leather Treatment Company. 176,951; Dec. 11; Serial No. 175,257; published Aug. 21, 1923.
Waterproof dressing for automobile tops. J. Metke. 176,949; Dec. 11; Serial No. 159,521; published July 3, 1923.

CLASS 5.

Oil, Core. Smith Oil & Refining Company. 177,186; Dec. 11; Serial No. 180,626; published Aug. 7, 1923.

CLASS 6.

Acetyl-amino-oxyphenyl arsenic acid. Etablissements Poulenc Frères. 177,082; Dec. 11; Serial No. 173,745; published Sept. 11, 1923.
Alcohol, Denatured. C. E. Adamson. 177,200; Dec. 11; Serial No. 179,124; published Sept. 18, 1923.
Automobile radiators, Antifreeze preparation for use in. Lee-Strauss Co. 177,246; Dec. 11; Serial No. 181,344; published Aug. 21, 1923.
Battery solutions. Blue Ribbon Battery Company. 176,984; Dec. 11; Serial No. 179,651; published Sept. 18, 1923.
Beauty clay. W. B. Cleves. 176,983; Dec. 11; Serial No. 179,655; published Sept. 11, 1923.
Beauty clay. Lincoln Laboratories, Inc. 177,206; Dec. 11; Serial No. 179,308; published Sept. 18, 1923.
Beauty clay. Terre Vitae Company. 177,194; Dec. 11; Serial No. 178,416; published Sept. 11, 1923.
Beverage and sirup for making same. H. A. Whitney. 177,263; Dec. 11; Serial No. 168,285; published Sept. 18, 1923.
Chemical compound. Etablissements Poulenc Frères. 177,164; Dec. 11; Serial No. 173,757; published Sept. 18, 1923.
Chemical liquid for protection and prevention of evaporation of volatile liquids, Prepared. Standard Oil Company (Incorporated in New Jersey). 177,087; Dec. 11; Serial No. 172,910; published Mar. 13, 1923.
Cough medicine. Cough Checker Company. 177,058; Dec. 11; Serial No. 180,363; published Sept. 18, 1923.
Cream, face powder, lip pencil, rouge, etc., Face. Vanity Fair Company. 177,178; Dec 11; Serial No. 180,991; published Sept. 18, 1923.
Creams, perfume, sachets, etc., Cold, face, vanishing, and cleansing. A. P. Babcock Co. 177,169; Dec. 11; Serial No. 181,237; published Sept. 18, 1923.
Dentifrice. C. C. Cummins. 177,094; Dec. 11; Serial No. 171,452; published Sept. 11, 1923.
Dentifrices and products used for the hygiene of the mouth. Societe Anonyme Dentifrices Bi-Oxyne. 177,229; Dec. 11; Serial No. 181,705; published Sept. 18, 1923.
Deodorant. Marmola Company. 176,950; Dec. 11; Serial No. 178,621; published Sept. 18, 1923.
Dyes. Gypsy Dyes, Inc. 177,238; Dec. 11; Serial No. 181,486; published Sept. 18, 1923.
Dyestuffs. C. H. A. Schmitt Company, Inc. 177,185; Dec. 11; Serial No. 180,622; published Sept. 11, 1923.
Dyestuffs, dyestuff intermediates, and chemicals. E. I. du Pont de Nemours & Company. 177,092; Dec. 11; Serial No. 172,869; published Sept. 11, 1923.
Emulsion used in treating constipation. Nolyec Laboratories. 177,159; Dec. 11; Serial No. 181,769; published Sept. 18, 1923.
Emulsion used in treating constipation. Nolyec Laboratories. 177,167; Dec. 11; Serial No. 181,767; published Sept. 18, 1923.
Foot balm. L. Hofer. 176,981; Dec. 11; Serial No. 179,793; published Sept. 11, 1923.
Foot powder. J. Misewicz. 177,050; Dec. 11; Serial No. 180,443; published Sept. 18, 1923.
Hair preparation. A. Montgomery. 177,191; Dec. 11; Serial No. 178,055; published Sept. 18, 1923.
Hair remover. H. S. Hinkle. 176,974; Dec. 11; Serial No. 180,066; published Sept. 11, 1923.
Hair tonic. F. Goldberg. 177,133; Dec. 11; Serial No. 144,812; published Sept. 18, 1923.
Hair tonic. Scientol Products Co. 177,240; Dec. 11; Serial No. 181,455; published Sept. 18, 1923.
Hair tonic and scalp ointment. B. H. Beuchel. 177,223; Dec. 11; Serial No. 176,158; published Sept. 18, 1923.
Liniment. R. B. Hebert and Son. 177,088; Dec. 11; Serial No. 173,493; published Sept. 18, 1923.
Liniment for the treatment of stiff and sore muscles, rheumatism, etc. Capitol Sales Company. 177,029; Dec. 11; Serial No. 163,500; published Feb. 20, 1923.
Lip sticks, eye brow and lash dressing, creams, etc. Delica Laboratories Co. 176,991; Dec. 11; Serial No. 179,461; published Sept. 11, 1923.
Lye. Pennsylvania Salt Manufacturing Company. 177,222; Dec. 11; Serial No. 176,094; published Sept. 18, 1923.
Medical compound for treating corns. G. A. Breon. 177,054; Dec. 11; Serial No. 180,167; published Sept. 11, 1923.
Medicinal bitters and general tonics. Felice Bisleri & C. 177,130; Dec. 11; Serial No. 140,825; published Sept. 18, 1923.
Medicinal compound used for the treatment of rheumatism, neuralgia, sciatica, etc., Liquid. National Radium Co. 177,166; Dec. 11; Serial No. 181,766; published Sept. 18, 1923.
Medicinal preparation for treatment of eczema, tetter, etc. Kohr Mfg. Co. 176,982; Dec. 11; Serial No. 179,732; published Sept. 18, 1923.
Medicinal preparation used in the treatment of galls, sores, etc., on horses. F. W. Kelley. 177,232; Dec. 11; Serial No. 181,601; published Sept. 18, 1923.
Medicinal preparations. I. J. Epstein. 177,063; Dec. 11; Serial No. 174,729; published Sept. 11, 1923.
Medicinal preparations. Independent Drug Company. 177,175; Dec. 11; Serial No. 180,865; published Sept. 11, 1923.
Medicinal tablets for diseases in fowls. W. M. Carpenter. 177,207; Dec. 11; Serial No. 179,412; published Sept. 18, 1923.
Medicine for the skin. T. Kusaka. 177,177; Dec. 11; Serial No. 180,981; published Sept. 18, 1923.
Medicine for tuberculosis, etc. S. A. D. Sziber. 177,047; Dec. 11; Serial No. 180,508; published Sept. 18, 1923.
Medicine for whooping cough, bronchitis, tuberculosis, etc. Parke, Davis & Company. 176,953; Dec. 11; Serial No. 181,612; published Sept. 18, 1923.
Medicine, Nerve-tonic. Macphee & Company. 176,980; Dec. 11; Serial No. 179,806; published Sept. 11, 1923.
Medicines and pharmaceutical preparations. M. Kaplan. 177,055; Dec. 11; Serial No. 180,125; published Sept. 18, 1923.
Medicines for indigestion, sour stomach, etc., Proprietary. Lottman Medicine Company. 177,199; Dec. 11; Serial No. 179,009; published Sept. 18, 1923.
Medicines, Patent. Mac Lean Drug Company. 177,091; Dec. 11; Serial No. 172,845; published Sept. 18, 1923.
Mouth wash, Antiseptic. M. O. Jacques. 177,129; Dec. 11; Serial No. 140,964; published Jan. 3, 1922.
Nail polishes, paste polish, etc. L. Singer. 177,192; Dec. 11; Serial No. 178,290; published Sept. 11, 1923.
Oil, Castor. Bartlett Corporation. 177,160; Dec. 11; Serial No. 181,811; published Sept. 25, 1923.
Oil, Spraying. Sun Oil Company. 177,042; Dec. 11; Serial No. 180,562; published Sept. 18, 1923.
Oils and antiseptics, Combination of healing and medicinal. H. D. Sterrick. 177,028; Dec. 11; Serial No. 163,356; published Sept. 18, 1923.
Oils, castor oil aromatic, iron cinchona bitters, etc., Almond and castor. Eridanea Company, Inc. 177,213; Dec. 11; Serial No. 177,080; published Sept. 11, 1923.
Perfume, toilet water, face powder, etc. L. Cohn. 177,208; Dec. 11; Serial No. 177,547; published Sept. 18, 1923.
Perfumes, toilet water, cleansing cream, etc. National Chemical Co. 176,979; Dec. 11; Serial No. 179,815; published Sept. 11, 1923.
Perfumery, cream, lotion, rouge, etc. L. Scherk. 176,975; Dec. 11; Serial No. 179,966; published Sept. 11, 1923.
Powder and paste and mouth wash, Tooth. J. O. McCall. 177,221; Dec. 11; Serial No. 181,606; published Sept. 18, 1923.
Powder, Toilet. M. M. Richard Vve. Grenoville. 177,048; Dec. 11; Serial No. 180,370; published Sept. 18, 1923.
Powders, skin creams, etc., Face and sachet. H. C. Schaefer. 176,988; Dec. 11; Serial No. 179,485; published Sept. 11, 1923.
Preparation for energizing circulatory and nervous systems of the human body. B. R. Charles. 177,239; Dec. 11; Serial No. 181,474; published Sept. 18, 1923.
Preparation for hay fever and rose cold. E. M. Kraemer. 176,985; Dec. 11; Serial No. 179,606; published Sept. 18, 1923.
Preparation for syphilis, tabes, and general paralysis. Societe Anonyme pour l'Expansion des Marques de Fabrique et de Commerce. 177,243; Dec. 11; Serial No. 181,355; published Sept. 18, 1923.
Preparation for the relief of coughs, etc. L. S. Gibson. 177,183; Dec. 11; Serial No. 180,759; published Sept. 11, 1923.
Preparation for the treatment of corns. M. T. Perrotti. 177,168; Dec. 11; Serial No. 181,216; published Sept. 18, 1923.
Preparations for the relief of itching, inflammation, and irritation of the skin, biliousness, etc. C. G. Luther. 177,272; Dec. 11; Serial No. 156,331; published Sept. 11, 1923.
Preparations, Insect-destroying. J. Hertz. 177,233; Dec. 11; Serial No. 181,596; published Sept. 18, 1923.
Purgative tea. A. W. Niedzielski. 177,049; Dec. 11; Serial No. 180,384; published Sept. 18, 1923.

Remedy and insecticide, Abortion. Erick Bowman Remedy Company. 177,298; Dec. 11; Serial No. 166,126; published Sept. 18, 1923.
Remedy, Pile. H. A. Pond. 176,992; Dec. 11; Serial No. 179,425; published Sept. 18, 1923.
Rust remover and pickling compound for metals. Peter A. Frasse & Co. 177,179; Dec. 11; Serial No. 180,853; published Sept. 11, 1923.
Rust remover and preventive. W. Wandel Mfg Co. 176,986; Dec. 11; Serial No. 179,573; published Sept. 11, 1923.
Salt, Table. Haas, Baruch & Co. 177,228; Dec. 11; Serial No. 181,745; published Sept. 18, 1923.
Salve. S. W. Hill and Sons. 177,171; Dec. 11; Serial No. 181,119; published Sept. 18, 1923.
Salve, Corn. M. M. Winchell Co. 177,057; Dec. 11; Serial No. 180,092; published Sept. 11, 1923.
Sirup, Cough. Albers Company. 177,079; Dec. 11; Serial No. 184,048; published Sept. 18, 1923.
Sirup, horehound, honey, and tar sirup, blood purifier, etc., Laxative. Zinn Chemical Co. 177,182; Dec. 11; Serial No. 180,731; published Sept. 18, 1923.
Starch solvents. Takamine Laboratory, Inc. 177,032; Dec. 11; Serial No. 161,285; published Sept. 18, 1923.
Sulphur. San Francisco Sulphur Co. 177,244; Dec. 11; Serial No. 181,351; published Sept. 11, 1923.
Toilet preparations. Masol Chemical Co. 177,247; Dec. 11; Serial No. 181,760; published Sept. 18, 1923.
Tonic, Blood, liver, and system. R. Gaffney. 177,172; Dec. 11; Serial No. 181,068; published Sept. 18, 1923.
Tonic for kidney and bladder derangements, Stimulating. J. N. Greene. 176,990; Dec. 11; Serial No. 179,467; published Sept. 11, 1923.
Tonic, System. S. B. Yount. 177,212; Dec. 11; Serial No. 177,809; published Sept. 18, 1923.

CLASS 8.

Cigarette-rolling machines, Pocket. Evans Concinnum & Metal Works, Ltd. 177,131; Dec. 11; Serial No. 139,790; published July 4, 1922.

CLASS 13.

Doorchecks. No-Liquid Door Check Company. 177,275; Dec. 11; Serial No. 183,225; published Sept. 25, 1923.
Fastening devices. H. L. Fenno. 177,117; Dec. 11; Serial No. 181,440; published Sept. 25, 1923.
Nails. Carpenter-Dodge Company. 177,256; Dec. 11; Serial No. 184,065; published Sept. 25, 1923.
Screws, Wood. Continental Wood Screw Co. 177,255; Dec. 11; Serial No. 184,280; published Sept. 25, 1923.
Tubes, tube joints, pipes, etc. Mannesmannröhren-Werke. 177,015; Dec. 11; Serial No. 163,689; published Sept. 25, 1923.

CLASS 14.

Castings, Metal. Pacific Foundry Company. 177,257; Dec. 11; Serial No. 183,850; published Sept. 25, 1923.
Metals. Manganese Bronze and Brass Co. Limited. 177,190; Dec. 11; Serial No. 178,051; published Sept. 25, 1923.
Metals and alloys and ingots, castings, etc., Cast, drawn, rolled, etc. Anaconda Copper Mining Company. 176,956; Dec. 11; Serial No. 177,208; published Sept. 25, 1923.
Metals, Bearing. Super-Refined Metals Company. 177,248; Dec. 11; Serial No. 183,420; published Sept. 25, 1923.
Wire and rods, Welding. "Weldrite" Company. 177,014; Dec. 11; Serial No. 162,524; published Sept. 25, 1923.

CLASS 16.

Varnish. McDougall-Butler Co. 177,269; Dec. 11; Serial No. 156,798; published Apr. 25, 1923.

CLASS 17.

Cigars. Heineman Bros. 177,271; Dec. 11; Serial No. 156,491; published Feb. 14, 1922.

CLASS 20.

Oilcloth. T. R. Goodlatte & Sons, (Inc.). 177,068; Dec. 11; Serial No. 183,145; published Sept. 18, 1923.
Oilcloth, Table. Columbus-Union Oil Cloth Co. 177,242; Dec. 11; Serial No. 181,383; published Sept. 11, 1923.

CLASS 23.

Air-pressure systems for washing automobiles, etc., and parts of said systems. Gates Auto Laundry and Supply Company. 176,968; Dec. 11; Serial No. 179,144; published Sept. 25, 1923.
Bearings, Roller. Gilliam Manufacturing Company. 177,107; Dec. 11; Serial No. 173,633; published Sept. 25, 1923.
Cranes. Colby Steel and Engineering Co. 177,012; Dec. 11; Serial No. 157,759; published Sept. 25, 1923.
Engines, Internal-combustion. Universal Motor Company. 177,097; Dec. 11; Serial No. 171,144; published Sept. 25, 1923.
Knives, forks, spoons, razors, scissors. Carl Wüsthof, Stahlwarenfabrik. 177,031; Dec. 11; Serial No. 162,707; published Sept. 25, 1923.

CLASS 25.

Safes and vaults. Steelcraft Corporation of America. 177,007; Dec. 11; Serial No. 179,889; published Sept. 25, 1923.

CLASS 32.

Benches and settees. Bausman Manufacturing Company. 177,290; Dec. 11.

CLASS 33.

Glassware and glass toilet articles. Fostoria Glass Company. 177,291; Dec. 11.

CLASS 35.

Rubber belting. Goodyear Tire & Rubber Company. 177,126; Dec. 11; Serial No. 109,059; published Oct. 7, 1919.

CLASS 38.

Books, Series of. P. F. Collier & Son Company. 177,286; Dec. 11.

CLASS 39.

Apparel, Articles of ladies'. I. Pachner & Son, Inc. 177,273; Dec. 11; Serial No. 183,342; published Sept. 25, 1923.
Boots, shoes, and slippers, Leather. W. H. McElwain Company. 176,993; Dec. 11; Serial No. 176,903; published Sept. 18, 1923.
Brassières. Modishform Brassiere Co. 177,006; Dec. 11; Serial No. 180,291; published Sept. 11, 1923.
Brassières and girdles. La Belle Brassiere Co. 176,973; Dec. 11; Serial No. 179,209; published Sept. 11, 1923.
Caps, Infants'. Birnbaum, Rosenbloom & Yellen. 177,108; Dec. 11; Serial No. 173,696; published Sept. 18, 1923.
Cloaks, suits, dresses. M. Kirschner & Sons. 176,965; Dec. 11; Serial No. 178,345; published July 10, 1923.
Clothing and haberdashery, Men's, young men's, and boys'. J. Hilton. 177,009; Dec. 11; Serial No. 153,507; published June 26, 1923.
Clothing, Work. J. O. Fly. 177,118; Dec. 11; Serial No. 181,389; published Sept. 11, 1923.
Coats, Sheepskin. Slands M'f'g. Co. 177,254; Dec. 11; Serial No. 183,636; published Sept. 25, 1923.
Corsets, brassières, and underwear for women. Kops Bros. 177,109–11; Dec. 11; Serial Nos. 174,248–50; published Sept. 18, 1923.
Dresses, coats, and suits. Schroeder & Worth. 177,013; Dec. 11; Serial No. 159,820; published Sept. 18, 1923.
Dresses, Young girls'. G. Killfeather. 177,279; Dec. 11; Serial No. 183,157; published Sept. 25, 1923.
Garters. A. M. Malouf. 176,971; Dec. 11; Serial No. 179,618; published Sept. 11, 1923.
Gloves. Lilienthal & Grossman, Inc. 176,997; Dec. 11; Serial No. 176,352; published Aug. 28, 1923.
Gloves, Leather. California Glove Company. 177,125; Dec. 11; Serial No. 181,337; published Sept. 11, 1923.
Gloves, Leather. Elite Glove Co. 176,954; Dec. 11; Serial No. 177,172; published Sept. 11, 1923.
Hats. A. Lanfranchi. 176,957; Dec. 11; Serial No. 177,305; published Sept. 11, 1923.
Hats and caps. Fashion Hat Company. 176,972; Dec. 11; Serial No. 179,299; published Sept. 11, 1923.
Hats, Ladies' trimmed. H. Siegel. 177,002; Dec. 11; Serial No. 180,399; published Sept. 11, 1923.
Hosiery. Diamond Bros. 177,249; Dec. 11; Serial No. 183,366; published Sept. 25, 1923.
Hosiery. C. Iskowitz. 177,253; Dec. 11; Serial No. 183,525; published Sept. 25, 1923.
Hosiery. R. B. Lewis. 177,274; Dec. 11; Serial No. 183,306; published Sept. 25, 1923.
Hosiery. Notaseme Hosiery Co. 177,106; Dec. 11; Serial No. 173,104; published Sept. 25, 1923.
Hosiery. Ritter Hosiery Company. 177,260; Dec. 11; Serial No. 183,669; published Sept. 25, 1923.
Hosiery. Vertex Hosiery Mills, Inc. 177,250; Dec. 11; Serial No. 183,352; published Sept. 25, 1923.
Hosiery, underwear, and shirts. Williams-Richardson Company. 177,008; Dec. 11; Serial No. 149,881; published Aug. 7, 1923.
Neckties. C. Seidman. 177,258; Dec. 11; Serial No. 183,763; published Sept. 25, 1923.
Robes, dressing gowns, smoking jackets, and negligees, Bath and lounging. Fischer-Jelenko Inc. 177,278; Dec. 11; Serial No. 183,143; published Sept. 25, 1923.
Rubber boots, shoes, overshoes, etc. Hood Rubber Company. 176,969; Dec. 11; Serial No. 179,040; published Sept. 11, 1923.
Rubber heels for shoes. B. R. Barva. 177,017; Dec. 11; Serial No. 164,578; published Sept. 18, 1923.
Shirts, Men's. Oriole Shirt Manufacturing Corporation. 177,276; Dec. 11; Serial No. 183,160; published Sept. 25, 1923.
Shoes. Brown Shoe Company. 176,970; Dec. 11; Serial No. 179,180; published Sept. 11, 1923.
Slippers, Felt. United States Rubber Company. 176,962; Dec. 11; Serial No. 177,753; published Sept. 18, 1923.
Suits, Children's wash and play. Young Folks M'f'g. Co. 177,024; Dec. 11; Serial No. 164,528; published June 19, 1923.
Sweaters, bathing suits, mufflers, etc. Wonder-Knit Mills. 177,259; Dec. 11; Serial No. 183,810; published Sept. 25, 1923.
Underwear, footwear, neckwear, shirts, Men's and boys'. Saks & Company. 177,095; Dec. 11; Serial No. 172,444; published Sept. 11, 1923.

Waists and underwear, Children's. Thos. P. Taylor Co. 177,251–2; Dec. 11; Serial Nos. 183,506–7; published Sept. 25, 1923.

CLASS 42.

Cotton linings in the piece. Marshall Field & Company. 176,987; Dec. 11; Serial No. 179,524; published Sept. 11, 1923.
Cotton piece goods. J. I. Hart. 177,069–70; Dec. 11; Serial Nos. 183,569–70; published Sept. 11, 1923.
Cotton piece goods. Kelsey Textile Corporation. 177,076–7; Dec. 11; Serial Nos. 183,747–8; published Sept. 18, 1923.
Cotton piece goods. Kelsey Textile Corporation. 177,081; Dec. 11; Serial No. 183,749; published Sept. 18, 1923.
Cotton piece goods. John P. King Manufacturing Co. 177,267; Dec. 11; Serial No. 166,373; published Sept. 18, 1923.
Cotton piece goods. Charles L. Poor Co. 177,221; Dec. 11; Serial No. 176,040; published Sept. 18, 1923.
Cotton piece goods. Wilton Manufacturing Company. 177,080; Dec. 11; Serial No. 183,786; published Sept. 18, 1923.
Handkerchiefs. H. C. Elchhold. 177,071; Dec. 11; Serial No. 183,446; published Sept. 18, 1923.
Handkerchiefs. K. Mandell. 177,072; Dec. 11; Serial No. 183,580; published Sept. 18, 1923.
Laces and upholstery goods. Alb. & E. Henkels, Inc. 177,062; Dec. 11; Serial No. 169,211; published Sept. 11, 1923.
Laces and upholstery goods. Alb. & E. Henkels, Inc. 177,261; Dec. 11; Serial No. 169,210; published Sept. 11, 1923.
Piece goods used as casket linings and trimmings. Theo. Tiedemann & Sons, Inc. 177,146; Dec. 11; Serial No. 151,725; published Mar. 6, 1923.
Ribbons in the piece. Corbett Bros. Co. 177,142; Dec. 11; Serial No. 150,848; published Dec. 13, 1921.
Ribbons in the piece, Silk and cotton. O. Lion. 177,152; Dec. 11; Serial No. 182,249; published Sept. 18, 1923.
Rugs, carpets, and other textile floor coverings. Mars Grand Rug Co. 177,067; Dec. 11; Serial No. 183,390; published Sept. 18, 1923.
Sheets and pillowcases. Abraham & Straus, Inc. 177,154; Dec. 11; Serial No. 182,279; published Sept. 18, 1923.
Silk, cotton, etc., piece goods. Haas Brothers Fabrics Corporation. 177,073–4; Dec. 11; Serial Nos. 183,740–1; published Sept. 18, 1923.
Silk, cotton, etc., piece goods. Haas Brothers Fabrics Corporation. 177,078; Dec. 11; Serial No. 183,742; published Sept. 18, 1923.
Silk, cotton, linen, and woolen piece goods. Haas Brothers Fabrics Corporation. 177,075; Dec. 11; Serial No. 183,738; published Sept. 18, 1923.
Silk fabrics in the piece. Schoonmaker Bros. & Company. 177,151; Dec. 11; Serial No. 182,360; published Sept. 18, 1923.
Silk goods in the piece. Moss Brothers. 177,101; Dec. 11; Serial No. 170,444; published Sept. 18, 1923.
Silks and laces in the piece. Chas. A. Stevens & Bros. 177,150; Dec. 11; Serial No. 182,447; published Sept. 11, 1923.
Silks in the piece. Chas. A. Stevens & Bros. 177,149; Dec. 11; Serial No. 182,446; published Sept. 11, 1923.
Woolen piece goods. E. J. Wile & Co. 177,156; Dec. 11; Serial No. 181,926; published Sept. 11, 1923.

CLASS 43.

Thread, Mercerized and plain cotton. A. J. Rothstein. 177,037; Dec. 11; Serial No. 158,444; published Oct. 10, 1922.

CLASS 45.

Beverage sold as a soft drink. M. B. McCarthy. 177,127; Dec. 11; Serial No. 119,527; published Mar. 7, 1922.
Beverage sold as soft drink and sirups for making same. Hurty-Peck & Company. 177,132; Dec. 11; Serial No. 145,896; published Aug. 15, 1922.
Water, ginger ale, root beer, etc., Still and carbonated. Waukesha Silurian Water Co. 177,193; Dec. 11; Serial No. 178,316; published Aug. 28, 1923.

CLASS 46.

Alimentry products and pastes, spaghetti, etc. W. S. Creed. 177,196; Dec. 11; Serial No. 178,494; published Sept. 25, 1923.
Bacon. Barrington Packing Co. 177,102; Dec. 11; Serial No. 168,749; published Sept. 25, 1923.
Bread. American Bakeries Co. 177,287; Dec. 11.
Bread. Indian Village Bakery. 177,270; Dec. 11; Serial No. 156,579; published Sept. 25, 1923.
Bread. D. P. Woolley. 177,119; Dec. 11; Serial No. 181,369; published Sept. 25, 1923.
Bread. D. P. Woolley. 177,120; Dec. 11; Serial No. 181,367; published Sept. 25, 1923.
Bread. D. P. Woolley. 177,121–2; Dec. 11; Serial Nos. 181,363–4; published Sept. 25, 1923.
Bread. D. P. Woolley. 177,123; Dec. 11; Serial No. 181,360; published Sept. 25, 1923.
Bread, cake, and a vitamine-containing product. Ward Baking Company. 177,061; Dec. 11; Serial No. 168,183; published Aug. 21, 1923.
Butter, oleomargarine, eggs, etc. Dunlevy Packing Company. 177,143; Dec. 11; Serial No. 150,311; published Sept. 11, 1923.
Butter, oleomargarine, eggs, lard, etc. Dunlevy Packing Company. 177,138; Dec. 11; Serial No. 150,310; published Aug. 7, 1923.
Buttermilk, Concentrated. Consolidated Products Co. 176,959; Dec. 11; Serial No. 177,364; published Sept. 18, 1923.
Cake icing, pie filling, shredded coconut, etc. Mills Brothers Company. 177,112; Dec. 11; Serial No. 174,716; published Sept. 11, 1923.
Cake, Toasted sponge. Tasty Baking Company. 176,999; Dec. 11; Serial No. 175,684; published Aug. 21, 1923.
Cakes. J. Bermejo. 177,209; Dec. 11; Serial No. 177,582; published Sept. 18, 1923.
Candies. Zucnutkandy Company. 177,157; Dec. 11; Serial No. 181,969; published Sept. 25, 1923.
Candies, candy confections, sweetmeats, chewing gums. Ideal Caramel Company. 177,214; Dec. 11; Serial No. 177,225; published Aug. 28, 1923.
Candies, pastries, breads, cakes. A. Paulson. 177,104; Dec. 11; Serial No. 170,538; published Sept. 18, 1923.
Candy. Belle Mead Sweetsmakers. 177,096; Dec. 11; Serial No. 171,148; published Mar. 27, 1923.
Candy. Catawba Candy Co. 177,099; Dec. 11; Serial No. 170,004; published Mar. 13, 1923.
Candy. Consumers Biscuit Company. 176,998; Dec. 11; Serial No. 176,164; published Sept. 25, 1923.
Candy. Harris Woodson Co. 177,053; Dec. 11; Serial No. 180,216; published Sept. 25, 1923.
Candy. Wm. H. Luden Inc. 177,043; Dec. 11; Serial No. 180,542; published Sept. 25, 1923.
Candy. New England Confectionery Company. 177,153; Dec. 11; Serial No. 182,256; published Sept. 18, 1923.
Candy. A. R. Walker Candy Corporation. 177,201; Dec. 11; Serial No. 179,074; published Sept. 25, 1923.
Candy, Pop-corn. Shotwell Mfg. Co. 177,241; Dec. 11; Serial No. 181,416; published Sept. 25, 1923.
Canned and dried fruits. United States Products Corporation. 177,010; Dec. 11; Serial No. 166,331; published Sept. 25, 1923.
Canned corn. Illinois Canning Company. 177,163; Dec. 11; Serial No. 181,895; published Sept. 25, 1923.
Canned chili tomato sauce. Colonial Packing Co. 177,176; Dec. 11; Serial No. 180,965; published Sept. 25, 1923.
Canned fish. Reid, Murdoch & Co. 177,264; Dec. 11; Serial No. 167,828; published Sept. 25, 1923.
Canned fish, fruits, and vegetables. J. S. Hume. 176,977; Dec. 11; Serial No. 179,941; published Sept. 25, 1923.
Canned fruit and vegetables, jams, etc. California Preserving Company. 177,044; Dec. 11; Serial No. 180,518; published Sept. 25, 1923.
Canned fruits. Sussman, Wormser & Co. 177,234; Dec. 11; Serial No. 181,575; published Sept. 25, 1923.
Canned fruits and vegetables, etc. F. M. Ball & Company. 177,064; Dec. 11; Serial No. 174,879; published Sept. 18, 1923.
Canned fruits and vegetables. Free & Klinck, Inc. 177,173; Dec. 11; Serial No. 181,019; published Sept. 25, 1923.
Canned olive oil, fruits, and vegetables. Michele Ajello Co. 177,284; Dec. 11.
Canned olive oil, fruits, and vegetables. Michele Ajello Co. 177,202; Dec. 11; Serial No. 179,127; published Sept. 25, 1923.
Canned oysters, salmon, sardines, and apricots etc. Winston, Harper, Fisher Company. 177,020; Dec. 11; Serial No. 166,120; published Aug. 7, 1923.
Canned salmon. Bankers Discount Association. 177,184; Dec. 11; Serial 180,830; published Sept. 25, 1923.
Canned sardines. Irwin-Harrisons & Crosfield, Inc. 177,235; Dec. 11; Serial No. 181,567; published Sept. 25, 1923.
Canned shrimp. W. A. Genant. 177,034; Dec. 11; Serial No. 160,409; published Sept. 25, 1923.
Canned vegetables. Illinois Canning Company. 177,162; Dec. 11; Serial No. 181,894; published Sept. 25, 1923.
Cantaloupes, fresh fruits and vegetables. Imperial Distributing Co. 177,018; Dec. 11; Serial No. 164,916; published Sept. 25, 1923.
Cereal and in cooked foods, Preparation for use as a breakfast. T. C. Hopper. 177,180; Dec. 11; Serial No. 180,863; published Sept. 25, 1923.
Cereals, Breakfast. Walton Milling Company. 177,128; Dec. 11; Serial No. 142,369; published Sept. 25, 1923.
Chocolate and cocoa, Milk. Lamont-Corliss and Company. 177,265; Dec. 11; Serial No. 167,257; published Mar. 20, 1923.
Chocolate and cocoa, Milk. Lamont-Corliss and Company. 177,266; Dec. 11; Serial No. 167,255; published Mar. 20, 1923.
Chocolate and cocoa, Milk. Lamont-Corliss and Company. 177,283; Dec. 11.
Chocolate and cocoa, Milk. Lamont-Corliss and Company. 177,285; Dec. 11.
Chocolate coating and cocoa. Lamont-Corliss and Company. 177,281; Dec. 11.
Chocolates. Bunte Brothers. 177,035; Dec. 11; Serial No. 160,385; published Sept. 25, 1923.
Cocoa and chocolate. Lamont-Corliss and Company. 177,282; Dec. 11.

Cocoa beans and butter, coffees, spices, etc. Daarnhouwer & Co. 177,021; Dec. 11; Serial No. 165,487; published Sept. 25, 1923.

Cocoa, sugar, cereal breakfast food, wheat flour, and condensed milk. Beech-Nut Packing Company. 177,140; Dec. 11; Serial No. 151,531; published Dec. 27, 1921.

Coffee. Abraham & Straus, Inc. 177,155; Dec. 11; Serial No. 182,281; published Sept. 25, 1923.

Coffee. George L. Buell & Co. 177,197; Dec. 11; Serial No. 178,817; published Sept. 11, 1923.

Coffee. Burton Coffee Company. 177,236; Dec. 11; Serial No. 181,556; published Sept. 25, 1923.

Coffee. Burton Coffee Company. 177,237; Dec. 11; Serial No. 181,554; published Sept. 25, 1923.

Coffee, Cauchois Coffee Company. 177,174; Dec. 11; Serial No. 181,011; published Sept. 25, 1923.

Coffee, Wm. T. Reynolds & Co. 176,963; Dec. 11; Serial No. 178,287; published Sept. 25, 1923.

Coffee, rolled oats, cocoa, etc. Church-Vance Grocery Co. 177,105; Dec. 11; Serial No. 173,033; published Sept. 18, 1923.

Coffee substitute. James Van Dyk Co. 177,045; Dec. 11; Serial No. 180,457; published Sept. 25, 1923.

Coffee, tea, cocoa, etc. H. Jevne Co. 177,026; Dec. 11; Serial No. 162,746; published Sept. 18, 1923.

Cranberries, Fresh. Grayland Cranberry Growers. 177,093; Dec. 11; Serial No. 171,316; published Sept. 25, 1923.

Cups capable of retaining liquids, Edible. Kracker-Kup Company. 177,030; Dec. 11; Serial No. 163,882; published Mar. 6, 1923.

Dairy and food products. James Van Dyk Co. 177,090; Dec. 11; Serial No. 172,623; published Sept. 25, 1923.

Dehydrated fruits and vegetables. King's Food Products Company. 177,141; Dec. 11; Serial No. 151,323; published Mar. 14, 1922.

Feed, Chick tonic. V. C. Getz. 177,215; Dec. 11; Serial No. 177,293; published Sept. 18, 1923.

Feed, Poultry. Taylor Bros. 177,289; Dec. 11.

Feed, Poultry. Wonderlay Milling Company. 176,958; Dec. 11; Serial No. 177,343; published Sept. 25, 1923.

Feed, Poultry and stock. Nickel Plate Elevator Company. 177,000; Dec. 11; Serial No. 181,086; published Sept. 25, 1923.

Feeds and mash, Poultry. American Hominy Company. 177,195; Dec. 11; Serial No. 178,489; published Sept. 18, 1923.

Feeds, Animal. Lake Shore Elevator Company. 176,960; Dec. 11; Serial No. 177,562; published Sept. 18, 1923.

Feeds, Farinaceous stock. Quaker Oats Company. 177,066; Dec. 11; Serial No. 174,918; published Sept. 4, 1923.

Feeds, Poultry. M. C. Peters Mill Co. 177,188; Dec. 11; Serial No. 177,991; published Aug. 21, 1923.

Feeds, Stock. Quaker Oats Company. 177,065; Dec. 11. Serial No. 178,917; published Aug. 7, 1923.

Flavoring extract for foods. Florasynth Laboratories. 177,204; Dec. 11; Serial No. 179,191; published Sept. 25, 1923.

Flour, Maltana Company. 177,016; Dec. 11; Serial No. 164,253; published Sept. 25, 1923.

Flour, C. O. Sandefur. 177,059; Dec. 11; Serial No. 180,302; published Sept. 25, 1923.

Flour, corn meal, and bread, wheat and rye. Nature's Own Food Co. 177,038; Dec. 11; Serial No. 158,090; published Sept. 25, 1923.

Flour, meal, farina, etc. Naamlooze Vennootschap Industrieele Maatschappij v/h Noury Van Der Lande. 177,011; Dec. 11; Serial No. 157,846; published Sept. 25, 1923.

Flour, oleomargarine, tapioca, etc., wheat. Northern Jobbing Company. 177,098; Dec. 11; Serial No. 171,034; published Sept. 25, 1923.

Flour, Pancake and buckwheat. Hite Brothers. 177,124; Dec. 11; Serial No. 181,342; published Sept. 25, 1923.

Flour, Pastry. J. Moskowitz. 177,218; Dec. 11; Serial No. 176,416; published Sept. 18, 1923.

Flour, Self-rising wheat. Ford Flour Company. 176,955; Dec. 11; Serial No. 177,081; published Sept. 4, 1923.

Flour, Self-rising wheat. Hattiesburg Grocery Co. 177,219; Dec. 11; Serial No. 176,827; published Sept. 18, 1923.

Flour, Wheat. Bill, Bell & Co. 176,967; Dec. 11; Serial No. 179,178; published Sept. 25, 1923.

Flour, Wheat. Cannon Valley Milling Company. 177,036; Dec. 11; Serial No. 159,142; published Mar. 20, 1923.

Flour, Wheat. Commander Mill Co., 177,216; Dec. 11; Serial No. 176,251; published Sept. 18, 1923.

Flour, Wheat. Ford Flour Company. 177,210; Dec. 11; Serial No. 177,601; published Sept. 18, 1923.

Flour, Wheat. Frontier Elevator & Mill Co. 177,052; Dec. 11; Serial No. 180,276; published Sept. 25, 1923.

Flour, Wheat. P. N. Gray & Company. 177,113; Dec. 11; Serial No. 174,735; published Sept. 18, 1923.

Flour, Wheat. J. Laux. 177,226; Dec. 11; Serial No. 175,501; published June 19, 1923.

Flour, Wheat. Louisville Milling Co. 177,051; Dec. 11; Serial No. 180,288; published Sept. 25, 1923.

Flour, Wheat. Louisville Milling Co. 177,060; Dec. 11; Serial No. 180,289; published Sept. 25, 1923.

Flour, Wheat. Minneapolis Milling Co. 177,220; Dec. 11; Serial No. 175,939; published Sept. 18, 1923.

Flour, Wheat. Southwestern Milling Company. 177,114–16; Dec. 11; Serial Nos. 181,458–60; published Sept. 25, 1923.

Flour, Wheat. Texas Star Flour Mills. 177,001; Dec. 11; Serial No. 180,631; published Sept. 25, 1923.

Flour, Wheat. Willis Norton & Co. 176,976; Dec. 11; Serial No. 179,949; published Sept. 18, 1923.

Flours, condensed soups, macaroni, etc., Digestive. C. H. Knorr A. G. 177,288; Dec. 11.

Food, Cracked cereal. C. O. Sandefur. 177,004–5; Dec. 11; Serial Nos. 180,298–9; published Sept. 25, 1923.

Food, Poultry. Jameson-Hevener Company. 177,217; Dec. 11; Serial No. 176,346; published Sept. 25, 1923.

Food product. Schor & Roberts. 176,995; Dec. 11; Serial No. 176,695; published Sept. 25, 1923.

Food products. T. & C. Corporation. 177,165; Dec. 11; Serial No. 173,863; published Aug. 7, 1923.

Foods, Cooked. A. F. Cook. 177,277; Dec. 11; Serial No. 167,802; published Sept. 18, 1923.

Foods, Stock and poultry. Ubiko Milling Company. 177,022; Dec. 11; Serial No. 165,902; published Aug. 7, 1923.

Fruits and nuts. E. J. Power. 177,147; Dec. 11; Serial No. 156,017; published Sept. 11, 1923.

Fruits, Citrous. Gold Buckle Association. 177,083; Dec. 11; Serial No. 173,636; published Sept. 11, 1923.

Fruits, Citrous. Gold Buckle Association. 177,084; Dec. 11; Serial No. 173,639; published Sept. 11, 1923.

Fruits, Citrous. Gold Buckle Association. 177,085; Dec. 11; Serial No. 173,640; published Sept. 11, 1923.

Fruits, Citrous. Gold Buckle Association. 177,086; Dec. 11; Serial No. 173,642; published Sept. 11, 1923.

Fruits, Fresh citrous. A. G. Maddock. 176,964; Dec. 11; Serial No. 178,854; published Sept. 25, 1923.

Fruits, Fresh citrous. Chas. C. Oyler & Son. 176,989; Dec. 11; Serial No. 179,482; published Sept. 25, 1923.

Grapes, Fresh. C. Anderson. 177,148; Dec. 11; Serial No. 182,898; published Sept. 25, 1923.

Honey. Griggs Bros. Co. 177,134–6; Dec. 11; Serial Nos. 149,604–6; published Sept. 26, 1922.

Honey. Griggs Bros. Co. 177,139; Dec. 11; Serial No. 149,697; published Sept. 26, 1922.

Honey. Long Island Packing Co. Inc. 177,181; Dec. 11; Serial No. 180,709; published Sept. 25, 1923.

Ice cream. Bittersweet Products Corporation. 177,187; Dec. 11; Serial No. 180,579; published Sept. 25, 1923.

Ice cream. C. A. Hay. 177,033; Dec. 11; Serial No. 160,938; published Sept. 18, 1923.

Lollypops. Popsicle Corporation. 177,230; Dec. 11; Serial No. 181,614; published Sept. 25, 1923.

Macaroni. Fortune Products Company. 177,161; Dec. 11; Serial No. 181,884; published Sept. 25, 1923.

Macaroni, spaghetti, noodles, etc. Liberty Macaroni Manufacturing Co. 176,994; Dec. 11; Serial No. 176,745; published Sept. 25, 1923.

Malt extract for food purposes. O. Thoma. 177,205; Dec. 11; Serial No. 179,240; published Sept. 25, 1923.

Mayonnaise dressing, peanut butter, cocoa, etc. Champlain Valley Fruit Co. 177,198; Dec. 11; Serial No. 178,713; published Sept. 25, 1923.

Milk, cream, butter, cheese, and ice cream. H. P. Hood & Sons. 177,157; Dec. 11; Serial No. 146,215; published June 6, 1922.

Milk products, ice cream, and confections. J. D. Roszell. 177,280; Dec. 11.

Mincemeat, plum pudding, and fig pudding. Charles A. Rauscher & Co. 176,961; Dec. 11; Serial No. 177,622; published Aug. 21, 1923.

Oats, split peas, hominy, farina, etc., Rolled. Albers Bros. Milling Co. 177,227; Dec. 11; Serial No. 175,753; published Sept. 25, 1923.

Oil, oleomargarine, cooking fats, etc., Cottonseed. Procter and Gamble Company. 177,189; Dec. 11; Serial No. 177,996; published Sept. 18, 1923.

Oil, Olive. Joseph Petrocelli & Co. 177,262; Dec. 11; Serial No. 169,181; published Sept. 25, 1923.

Oleo, oleo oil, and shortening. Consolidated Rendering Company. 177,225; Dec. 11; Serial No. 175,187; published Sept. 18, 1923.

Pastry, doughnuts, bread, cake, potato chips, etc. Home Dairy Company. 176,952; Dec. 11; Serial No. 147,288; published Mar. 14.

Peanuts, Sugar-coated. G. J. Bulubassis. 177,089; Dec. 11; Serial No. 173,590; published Sept. 11, 1923.

Pickles, vinegar, fruit jellies and preserves, etc. Roscoe Haegelin Co. 177,145; Dec. 11; Serial No. 152,276; published Nov. 22, 1921.

Poultry and eggs, Live. J. W. Parks. 177,023; Dec. 11; Serial No. 166,092; published Sept. 25, 1923.

Poultry, butter, eggs. H. Snyder. 177,010; Dec. 11; Serial No. 159,625; published Sept. 18, 1923.

Powder, Whipping. Jos. Middleby, Jr., Inc. 177,224; Dec. 11; Serial No. 176,199; published Sept. 18, 1923.

Preserves, Fruit. Ford & Company. 176,978; Dec. 11; Serial No. 179,933; published Sept. 8, 1923.

Rice. North American Mercantile Co. 176,996; Dec. 11; Serial No. 176,356; published Aug. 21, 1923.

Rusk. H. Diederich. 177,056; Dec. 11; Serial No. 180,110; published Sept. 25, 1923.

Salad dressing, filling for sandwiches, etc. Delfine Pure Food Co. 177,040; Dec. 11; Serial No. 179,588; published Sept. 11, 1923.

Sandwichlike product. W. D. Kemp. 177,144; Dec. 11; Serial No. 155,352; published Sept. 18, 1923.

Sausage, bacon, lard, and lard compound. E. Kahn's Sons Company. 177,158; Dec. 11; Serial No. 182,153; published Sept. 25, 1923.

Semolina. Star & Crescent Milling Co. 177,003; Dec. 11; Serial No. 180,308; published Sept. 25, 1923.

Shrimp, Dried. Blum & Bergeron. 177,170; Dec. 11; Serial No. 181,167; published Sept. 25, 1923.

Sirup, Table. A. M. Stouffer. 176,966; Dec. 11; Serial No. 178,300; published Sept. 25, 1923.

Soups, and preparations for making soups. Oxo, Limited. 177,039; Dec. 11; Serial No. 157,898; published Sept. 25, 1923.

Spices, coffee, etc. Knupke Coffee Company. 177,027; Dec. 11; Serial No. 163,337; published Sept. 25, 1923.

Tamales. E. J. Koppe. 177,203; Dec. 11; Serial No. 179,154; published Sept. 25, 1923.

Tea and coffee. Midland Grocery Company. 177,245; Dec. 11; Serial No. 181,346; published Aug. 21, 1923.

Tonic and food, Hog. American Stock Food Co. 177,211; Dec. 11; Serial No. 177,759; published Sept. 18, 1923.

Vinegars. Duffy-Mott Company. 177,025; Dec. 11; Serial No. 165,068; published Sept. 25, 1923.

Watermelons. Wm. S. Sweet & Son, Inc. 177,041; Dec. 11; Serial No. 180,563; published Sept. 25, 1923.

Watermelons. Wm. S. Sweet & Son, Inc. 177,046; Dec. 11; Serial No. 180,507; published Sept. 25, 1923.

Wheat and a mixture of wheat and bran flour, Rolled. Quaker Oats Company. 177,100; Dec. 11; Serial No. 170,215; published Sept. 25, 1923.

Wheat and wheat and bran flour, Rolled. Quaker Oats Company. 177,103; Dec. 11; Serial No. 170,214; published Sept. 18, 1923.

ALPHABETICAL LIST OF LABELS.

A Family of Dolls All from One Change-O-Doll and a few extra heads. For Dolls. Change-O-Doll Company. 26,663; Dec. 11.

Anestypticide. For a Local Preparation by that name having Anæsthetic, Styptic, and Antiseptic Properties. Dr. L. C. Hess. 26,669; Dec. 11.

Baby's Clothes Tree. For Babies' Clothes Trees. Richard G. Krueger. 26,672; Dec. 11.

Barbers Hair Dressing. For Hair Dressing. V. E. Benedict. 26,657; Dec. 11.

Beta-Pine. For Cough Sirup. Beta-Pine Co. 26,658; Dec. 11.

Bunte Diana Stuft Confections. For Cans for Containing Candy. Bunte Brothers. 26,661; Dec. 11.

Bunte Fine Hard Candies. For Cans for Containing Candy. Bunte Brothers. 26,660; Dec. 11.

Bunte World Famous Candies. For Cans for Containing Candy. Bunte Brothers. 26,662; Dec. 11.

Cleans and Polishes All-In-One Operation. For a Polish for Autos and Furniture. E. T. Stege. 26,677; Dec. 11.

Dandrfall. For Hair Tonic. F. Russo. 26,676; Dec. 11.

El Contento. For Coffee. Quality Coffee & Tea Co. 26,675; Dec. 11.

Extra Dry (with a representation of a Peacock.) For Ginger Ale. Welsbrod & Hess Brewing Company. 26,682; Dec. 11.

Good Samaritan Ointment. For Ointment. H. E. Kelley. 26,671; Dec. 11.

It Is A Pleasure To Use Jack's Fly and Insect Mist. For a Preparation for Destroying Flies and Insects. Johnston United Chemical Co. 26,670; Dec. 11.

Kewpee Hotels. For Sandwiches. F. J. Blair. 26,659; Dec. 11.

Les Produits de Beauté de Rosario Duprez New York. For Beauty Preparations. R. Duprez. 26,665; Dec. 11.

Magnet. Hair nets. Femina Importing Company. 26,666; Dec. 11.

Mason's Almond Nougat Bars. For Candy. Mason, Au & Magenheimer Confectionery Manufacturing Company. 26,673; Dec. 11.

Philadelphia Double Strength. For Malt Extract. Philadelphia Malt Extract Co. 26,674; Dec. 11.

Ridgecrest. For Dried Prunes. Coykendall, Inc. 26,664; Dec. 11.

Sandwich Relish. For Relish. Henard Mayonnaise Company. 26,668; Dec. 11.

Standard Shirt. For Shirts. I. Greenberg. 26,667; Dec. 11.

The Laura Net. For Hair Nets. C. K. Thau. 26,678; Dec. 11.

Tut-Ankh-Amen Egyptian Beauty Clay. For White Beauty Clay. H. Wakelin. 26,679; Dec. 11.

Uncle Wiggily. For a Pull Toy. Fred A. Wish, Inc. 26,684; Dec. 11.

Uncle Wiggily Crayola Color Box. For Crayon Boxes. Fred A. Wish, Inc. 26,683; Dec. 11.

Ward's Nonpareil Cakes. For Cake. Ward Baking Company. 26,681; Dec. 11.

Ward's Sweet Rolls. For Rolls. Ward Baking Company. 26,680; Dec. 11.

ALPHABETICAL LIST OF PRINTS.

Arrow Collars and Shirts for Formal Dress. For Collars and Shirts. Cluett, Peabody & Co. 7,068; Dec. 11.

Arrow Shirts—The Arrow Shirts are distinguished for their better quality, etc. For Shirts. Cluett, Peabody & Co. 7,070; Dec. 11.

As Others See It. For Income-Tax Records or Books. Commonwealth Publishing Company. 7,071; Dec. 11.

Authorities call it the "neglected age." For Wheat Breakfast Food. Cream of Wheat Co. 7,073; Dec. 11.

Baby Eggs. For Eggs. M. Packman. 7,080; Dec. 11.

Crema de Perlas de Barry. For Liquid Face Powder. Barclay & Co. 7,065; Dec. 11.

Fight Acid-Erosion at "The Danger Line" If you want sound teeth and healthy gums. For Dental Cream. E. R. Squibb & Sons. 7,084; Dec. 11.

56 is just a number—58 is just a number, etc. For Heinz 57 Varieties. H. J. Heinz Co. 7,077; Dec. 11.

Loose-Fitting B. V. D. Underwear. For Athletic Underwear. B. V. D. Company, Inc. 7,064; Dec. 11.

Olives from Spain—From Seville, in sunny Spain, etc. For Heinz 57 Varieties. H. J. Heinz Co. 7,076; Dec. 11.

Only in Italy is found such talc—only Squibb brings such a talcum to you. For Talcum and Cold Cream. E. R. Squibb & Sons. 7,085; Dec. 11.

Pildoritas Reuter. For Liver Pills. Barclay & Co. 7,076; Dec. 11.

Protecting The Beautiful Complexion. For Honey and Almond Cream and Cre-mia Face Powder. A. S. Hinds Co. 7,078; Dec. 11.

Solid Silver—Precious thro the Ages. For Solid Silverware. Towle Manufacturing Co. 7,086; Dec. 11.

The Danger Line There is a tiny ridge on the surface of your teeth. For Dental Cream. E. R. Squibb & Sons. 7,083; Dec. 11.

The Estey Residence Pipe Organ—Greatest of all instruments of music is the Organ, etc. For Estey Organs. Estey Organ Company. 7,075; Dec. 11.

There is something about the presence of a pipe organ in a home that gives the house a distinction, etc. For Estey Organs. The Estey Organ Company. 7,074; Dec. 11.

To The Queen's Taste. For Wheat Breakfast Food. Cream of Wheat Co. 7,072; Dec. 11.

Tricófero Barry. For a Hair Tonic. Barclay & Co. 7,066; Dec. 11.

Truth in Advertising Drug Products. For Drugs. E. R. Squibb & Sons. 7,082; Dec. 11.

Tuxara an Arrow Wing Collar—A Smart, etc. For Collars. Cluett, Peabody & Co. 7,069; Dec. 11.

Under the keen appraisal of scores of critical eyes. For Hosiery. "Onyx" Hosiery Inc. 7,079; Dec. 11.

Venus: The Largest Selling Quality Pencil in the World. For Pencils. American Lead Pencil Company. 7,063; Dec. 11.

What the eyes of others see. For Palmolive Soap. Palmolive Company. 7,081; Dec. 11.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 1.

Coal. Kalamazoo Ice & Fuel Company. 185,595; Dec. 11.

CLASS 2.

Containers. B. Fischer & Co. 154,181; Dec. 11.
Linen and clothes hampers, trays, cans, etc. F. O. Schoedinger. 172,178; Dec. 11.

CLASS 3.

Bags, suitcases, and hatboxes, Traveling. Katz Bros. Leather Goods Co. 186,843; Dec. 11.
Leather goods and leather novelties. Phoenix Leather Goods Co. 186,445; Dec. 11.

CLASS 4.

Cleansing and disinfectant compounds for floors. National Renovating & Supply Co. 185,140; Dec. 11.
Compound for cleansing and polishing woodwork, etc. L. Mestre. 185,759; Dec. 11.
Metal plates for use in removing foreign matter from or in cleansing metal ware. Whiting & Davis Company. 185,275; Dec. 11.
Preparation for cleaning and removing stains from painted surfaces, tile, rugs, etc. Pioneer Products Co. 181,308; Dec. 11.
Preparation for cleaning and removing stains from painted surfaces, tile, rugs, etc. Pioneer Products Co. 181,508; Dec. 11.
Preparation for cleaning stringed instruments. R. Paulus. 185,146; Dec. 11.
Preparation for preserving, softening, and waterproofing leather. Snyderize Co. 185,318; Dec. 11.
Soap. Globe Soap Company. 186,363; Dec. 11.
Soap. Warren Soap Manufacturing Company. 166,966; Dec. 11.
Soap, Automobile. Shiffer Products Company. 185,846; Dec. 11.
Soap cream for shaving. Andron Hygienic Company. 186,264–5; Dec. 11.
Soap creams. Grand Union Tea Co. 184,497; Dec. 11.
Soaps, Hand. F. Stephens. 151,104; Dec. 11.
Soaps, soap pastes and powders. E. Daltroff & Cie. 186,110; Dec. 11.

CLASS 6.

Antiseptic and germicidal preparation. L. D. Caulk Company. 185,565; Dec. 11.
Bath salts. E. S. Johnson. 186,236; Dec. 11.
Chemicals, medicines, and pharmaceutical preparations. Lournay, Inc. 177,234; Dec. 11.
Clay, face powder, creams, etc., Beauty. Scott's Preparations, Inc. 186,161; Dec. 11.
Corn remedy. S. L. Allen. 185,399; Dec. 11.
Cream, Cold. Pond's Extract Company. 185,377; Dec. 11.
Cream, Vanishing. Pond's Extract Company. 185,378; Dec. 11.
Dental cream. Vibro-Dental Products Incorporated. 186,259; Dec. 11.
Dentifrices. Parfumerie Anthemys (S. A.) 168,730; Dec. 11.
Deodorant and disinfectant. U. S. Sanitary Specialties Corporation. 185,732; Dec. 11.
Depilatory. Jean Jordeau Inc. 185,709; Dec. 11.
Dye, Aniline. Sands & Ross, Inc. 186,447; Dec. 11.
Expectorant. Farbenfabriken vorm. Friedr. Bayer & Co. 185,574; Dec. 11.
External application for asthma, bronchitis, coughs, etc. Capitol Chemical Co. 185,562; Dec. 11.
Gas, Compressed. Carbide & Carbon Chemicals Corporation. 185,652; Dec. 11.
Hair tonic and restorer. I. Berkenfield. 183,135; Dec. 11.
Liniment. Faxon & Gallagher Drug Co. 185,575; Dec. 11.
Liniment. Sun Zone Company. 185,767; Dec. 11.
Lotions, powders, creams, etc., Toilet. Guy T. Gibson, Incorporated. 185,698–9; Dec. 11.
Medicated cream or ointment. L. D. Caulk Company. 185,413; Dec. 11.
Medicine for dissolving gallstones. J. E. Stavros. 185,322; Dec. 11.
Nose irrigation and throat gargle. Fred Baden, Inc. 185,810; Dec. 11.
Odor-preventing preparation. H. P. Easton, jr. 186,358; Dec. 11.
Ointment. E. C. Woodford. 185,641; Dec. 11.
Ointments and plasters. W. Menner. 177,311; Dec. 11.
Perfume, cold cream, hair oil, shampoo, etc. Roosa & Ratliff Chemical Co. 185,621; Dec. 11.
Perfume extracts, lotions, toilet waters, etc. M. Babani. 185,912; Dec. 11.
Perfume for driving off mosquitoes or similar insects. Geo. H. Gould & Son. 185,457; Dec. 11.
Perfume, toilet water, face and talcum powders, etc. Coty, Inc. 180,107; Dec. 11.
Perfume, toilet water, face powder, etc. Houbigant, Inc. 185,459–63; Dec. 11.
Perfumes, toilet water, face and talcum powders, etc. R. de Soria. 185,961; Dec. 11.
Perfumes, toilet waters, eau de Cologne, brilliantine, etc. Velsch & Holtz. 185,638; Dec. 11.
Perfumes, toilet waters, face creams, etc. L. Cohn. 186,217; Dec. 11.
Pile remedy. A. Green. 172,039; Dec. 11.
Powder and rouge, Cosmetic. A. Polansky. 177,324; Dec. 11.
Powders and creams, perfumes, etc., Face. H. J. Carman. 185,410; Dec. 11.
Powders, cold and vanishing creams, etc., Face and talcum. Merle Laboratories. 185,530; Dec. 11.
Preparation for the treatment of pyorrhea alveolaris. Medico-Dental Specialty Co. 185,605; Dec. 11.
Preparation for the treatment of rheumatism, lumbago, etc. S. Vander Wheelen. 183,013; Dec. 11.
Preservative for pound and trap nets. G. A. Heuer. 186,231; Dec. 11.
Remedy for enteric disturbances. Farbenfabriken vorm. Friedr. Bayer & Co. 185,573; Dec. 11.
Rouge, Lip. Remiller Co. 186,292; Dec. 11.
Sachet, tooth powder, cold cream, etc. Richard Hudnut. 186,188–91; Dec. 11.
Toilet preparations. Plough Chemical Company. 186,391; Dec. 11.
Sulpho-chromic salts for making battery fluids. Central Scientific Company. 185,447; Dec. 11.
Toilet preparations. Plough Chemical Company. 186,391; Dec. 11.
Tonic, Nutrient. Hance Brothers & White Incorporated. 185,519; Dec. 11.
Tonics, Medical. T. G. Walton Company. 185,391–2; Dec. 11.

CLASS 11.

Colors and marbling sizes, Ruling, edge, and marbling. H. Rehlen & Bro. 185,285; Dec. 11.
Inks, Stencil. R. E. Beckert. 183,134; Dec. 11.

CLASS 12.

Asphalt, Rock. Continental Rock Asphalt Company. 173,178; Dec. 11.
Gaulster. Keystone Refractories Company. 184,944; Dec. 11.

CLASS 13.

Alarms, Gas-flow. H. Cappellanti. 186,350; Dec. 11.
Furniture slides. Berbecker & Rowland Mfg. Co. 172,317; Dec. 11.
Nails and staples. G. X. Wendling. 185,683; Dec. 11.
Pipe lines, Expansion joints for. Howard Iron Works. 186,233; Dec. 11.
Rivets. Crescent Belt Fastener Company. 169,200; Dec. 11.

CLASS 14.

Steel and iron sheets and plates, Ingot molds, etc. Allegheny Steel Company. 165,518; Dec. 11.

CLASS 15.

Lubricant. Wadhams Oil Company. 186,860; Dec. 11.
Oils, Lubricating. Warren Refining & Chemical Company. 186,035; Dec. 11.

CLASS 16.

Cleaning and polishing preparations. Channell Chemical Company. 175,345; Dec. 11.
Colors, driers, enamels, etc. Acme White Lead & Color Works. 185,853; Dec. 11.
Floor dressing, Dance. T. Herzog. 184,243; Dec. 11.
Lacquer, Cellulose. Fiberloid Corporation. 187,613; Dec. 11.
Lacquers, lacquer enamels, thinners, etc. Arizona Lacquer Mfg. Co. 186,768; Dec. 11.
Paint, oil, oleo-resinous and varnish enamels, stains, etc. Truscon Steel Company. 179,244; Dec. 11.
Paints, Refractory. Adams & Jewell. 187,599; Dec. 11.
Polish and cleaner. Channell Chemical Company. 175,346; Dec. 11.
Polish for automobiles, pianos, etc. M. Hinton. 185,181; Dec. 11.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Polish, Furniture and automobile. National Renovating & Supply Co. 185,138; Dec. 11.

CLASS 19.

Automobile bodies. Pullman Company. 187,267; Dec. 11.
Automobile bumper. Eaton Axle & Spring Company. 186,632; Dec. 11.
Automobile rear-view mirrors and windshield wings. Kokomo Automotive Mfg. Co. 186,278–9; Dec. 11.
Cab bodies, Commercial. McCrea Mfg. Co. 173,572; Dec. 11.
Journal boxes and lids, railway cars, etc. Allegheny Steel Company. 169,795; Dec. 11.
Shock absorbers. Aerobelle Company. 186,041; Dec. 11.
Shock absorbers. C. C. Cannan. 182,331; Dec. 11.

CLASS 23.

Engines, Diesel. Union Gas Engine Co. 184,923; Dec. 11.
Jacks, Bed. Surgeons Specialty Company. 165,419; Dec. 11.
Pumps, atomizers, carburetors, etc. Penberthy Injector Company. 161,061; Dec. 11.
Razors, blades, and parts thereof, Safety. W. W. Everts. 185,078; Dec. 11.
Sprayers and parts therefor, Insecticide. "Friend" Manufacturing Co. 176,823; Dec. 11.

CLASS 24.

Washing machines. Meadows Mfg. Co. 178,053; Dec. 11.

CLASS 25.

Window fasteners. A. C. Wheelock. 185,068; Dec. 11.

CLASS 26.

Glassware, Laboratory, chemical, and surgical. Hiergesell Brothers. 180,663; Dec. 11.
Sign-display machines and projectors, Automatic changeable-. Standard Slide Corporation. 186,032; Dec. 11.

CLASS 27.

Watches and parts thereof. W. Kaufmann. 182,917; Dec. 11.
Watches, watchcases, watch movements, etc. R. Gsell & Co. 181,274; Dec. 11.

CLASS 28.

Extractors and belt clamps. Crescent Belt Fastener Company. 169,201; Dec. 11.
Pearl or imitation-pearl necklaces. Os-Da Company. 186,664; Dec. 11.
Pearls. Rosenberg & Co. 186,484; Dec. 11.
Pearls and precious stones and jewelry in which they are mounted. A. J. Van Exem. 168,182; Dec. 11.
Rings, Finger. J. R. Wood & Sons. 186,344; Dec. 11.

CLASS 30.

Crockery, earthenware, and porcelain. Porzellanfabrik Ph. Rosenthal & Co., A. G. 186,329; Dec. 11.

CLASS 32.

Mattresses, pillows, and box springs. M. Gordon. 183,923; Dec. 11.

CLASS 34.

Boilers and condensers, hot-air and hot-water furnaces, etc., Steam. Mannesmannröhrem Werke. 163,695; Dec. 11.
Stoves. American Stove Company. 181,330; Dec. 11.
Water heaters and boilers, Jackets for. Bastian-Morley Co. 185,102; Dec. 11.

CLASS 35.

Tire casings. Sterling Tire Corporation. 183,414; Dec. 11.

CLASS 36.

Organs and attachments for playing organs. Page Organ Co. 187,122; Dec. 11.
Organs, pianos, harps, and parts of such instruments. Van der Heyden a Hauzeur. 182,312; Dec. 11.
Phonograph records. Regal Record Company. 182,485; Dec. 11.
Phonographs. Abraham & Straus, Inc. 186,685; Dec. 11.
Piano plates. American Skein & Foundry Company. 186,454; Dec. 11.

CLASS 37.

Crayons. Milton Bradley Company. 186,435; Dec. 11.
Crayons. Milton Bradley Company. 186,437–8; Dec. 11.
Filing folders and guides, Vertical. Wabash Cabinet Co. 186,970; Dec. 11.
Paper, Blotting. H. W. Ellerson. 185,820; Dec. 11.
Paper, Greaseproof. Blake, Moffitt & Towne. 187,292; Dec. 11.
Paper, Wrapping. Blake, Moffitt & Towne. 187,286; Dec. 11.
Pencils. Nardi Magazine Pencil Co. 172,428; Dec. 11.
Pens, Fountain. Sears, Roebuck and Co. 187,136; Dec. 11.
Registers and parts thereof, Autographic. Autographic Register Company. 186,266; Dec. 11.
Stationery. Berlin & Jones Company. 176,782; Dec. 11.
Ticket bristol. J. P. Lewis Company. 168,474; Dec. 11.

CLASS 38.

Catalogues and price lists. Funsten Brothers & Company. 187,306; Dec. 11.
Magazine, Monthly. Macfadden Publications, Inc. 186,847; Dec. 11.
Magazine, Monthly. R. T. Miller, jr. 186,603; Dec. 11.
Magazines. Street & Smith Corporation. 186,166; Dec. 11.
Music, Sheet. Forster Music Publisher, Inc. 183,828; Dec. 11.
News articles and publications, Title to syndicated scientific. Science Service, Inc. 186,039; Dec. 11.
Newspaper columns. E. A. Moss. 186,243; Dec 11.
Newspaper magazine. Weekly supplement for a Tribune Company. 169,992; Dec. 11.
Newspaper strip, Title for comic. Illustrated Daily News Publishing Co. 187,162; Dec. 11.
Newspaper, Title of a column in a. Press Publishing Company. 186,613; Dec. 11.
Periodical, Printed. Better Times, Inc. 187,372; Dec. 11.
Publication. P. B. Walker 185,885; Dec. 11.
Publication, Name of a monthly. Norfolk Police Social and Relief Association. 185,903; Dec. 11.
Publication, Paint and varnish monthly. National Save The Surface Campaign Committee. 184,560; Dec. 11.
Publications, Monthly. Brown, Lockwood & Davenport Company. 186,214; Dec. 11.

CLASS 39.

Apparel, Children's and infants' wearing. H. Frohlichstein. 182,796; Dec. 11.
Apparel, Wearing. S. A. Ellenbogen. 186,546; Dec. 11.
Aprons, dresses, frocks, and coats. L. L. Brooks. 182,561; Dec. 11.
Bathing suits, Knitted. C. C. Smith. 186,252; Dec. 11.
Bibs. Sanitary Rubber Novelty Co. 171,869; Dec. 11.
Clothes for men and boys, Working. Bender Company. 184,633; Dec. 11.
Clothing. R & W Hat Shop, Inc. 185,673; Dec. 11.
Coats, cloaks, capes, etc., Women's, children's, and infants'. Salt's Textile Manufacturing Company. 186,616; Dec. 11.
Coats, Knitted sport. Recreation Distributing Co. 183,892; Dec. 11.
Corsets. Bonwit Teller & Co. 185,741; Dec. 11.
Dresses. C. H. Plumbridge. 186,070; Dec. 11.
Garments, Outer. Shirek & Hirsch. 180,030; Dec. 11.
Gloves. P. Centemeri & Co. 185,429; Dec. 11.
Gloves. P. Centemeri & Co. 185,436; Dec. 11.
Gloves and mittens. Boss Manufacturing Company. 165,056; Dec. 11.
Gloves and mittens. Boss Manufacturing Company. 185,743; Dec. 11.
Gloves, Ladies' silk. Carson Pirie Scott & Co. 185,563; Dec. 11.
Hats, Ladies'. H. L. Distillator & Son Inc. 186,221; Dec. 11.
Hats, Men's. Weber and Heilbroner. 185,805; Dec. 11.
Hosiery, Men's and women's. Miller Brothers Company. 184,980; Dec. 11.
Neckties. James McCurrach & Brother. 186,655; Dec. 11.
Neckties. A. Schreter. 186,804; Dec. 11.
Overcoats. R. H. Macy & Co. 186,146; Dec. 11.
Shirts and men's underwear, Men's and boys' dress. Chesterfield Shirt Company. 184,019; Dec. 11.
Shirts, trousers, and overalls, Work. Blue Ridge Manufacturing Company. 177,822; Dec. 11.
Shirts, trousers, and overalls, Work. Blue Ridge Manufacturing Company. 177,824; Dec. 11.
Shirts, Work. Finch, Van Slyck & McConville. 183,368; Dec. 11.
Shirts, Work. Max Goldberg & Co. 186,748; Dec. 11.
Shoes. Hofheimer Brothers Company. 183,626; Dec. 11.
Suits, Men's and young men's outer. A. B. Kirschbaum Company. 182,709; Dec. 11.
Union suits, vests, and bathing suits, Ladies'. Augusta Knitting Corporation. 174,283; Dec. 11.
Union suits, vests, pants, and hosiery, Knitted or textile. Syracuse Dry Goods Company. 172,808; Dec. 11.

CLASS 42.

Blankets and rugs. George Borgfeldt & Co. 186,461–2; Dec. 11.
Blankets, Bed and crib. Greenebaum, Weil & Michels. 185,017; Dec. 11.
Carpets and textile rugs. A. & M. Karagheusian, Inc. 186,554–5; Dec. 11.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Cotton piece goods. Appleton Company. 186,819–21; Dec. 11.
Handkerchiefs. Schmidt, Fitz-Gibbon Co. 186,448; Dec. 11.
Laces, nets, nettings, veils, and veilings. Liberty Lace and Netting Works. 185,663; Dec. 11.
Silk crapes in the piece. Travis, Romaine & Jelle, Inc. 186,305; Dec. 11.
Silk piece goods. Empire Silk Company. 186,547; Dec. 11.
Silk piece goods. Robinson Silk Company. 186,159; Dec. 11.
Silks in the piece. Jansen & Pretzfeld, Inc. 186,710; Dec. 11.
Tapestries, panels, centerpieces, and runners. A. Klekner. 176,410; Dec. 11.
Textile fabrics, Worsted and woolen. Holden-Leonard Company. 186,376–7; Dec. 11.
Woolen piece goods. Atlantic Mills. 186,406; Dec. 11.

CLASS 43.

Threads and yarns, Silk. Gudebrod Bros. Silk Co. 179,721; Dec. 11.

CLASS 44.

Antiseptic dressings, plain, absorbent, and medicated cottons and gauzes, etc. Deane Plaster Co. 175,306; Dec. 11.
Foot appliances of orthopedic pads or cushions. Foot Remedy Company. 187,103; Dec. 11.
Syringes. Hiergesell Brothers. 180,662; Dec. 11.
Syringes, hot-water bags, and water bags, Fountain. D. C. Poulsen. 175,156; Dec. 11.

CLASS 46.

Bacon, hams, lard, sausage. Nelson Meat Company. 182,519; Dec. 11.
Bread. Cushman's Sons, Inc. 173,073; Dec. 11.
Bread. Gordon Baking Co. 177,666; Dec. 11.
Bread. A. Kroudvird. 178,048; Dec. 11.
Bread. Massachusetts Baking Company. 174,582; Dec. 11.
Bread and rolls. P. M. Dorsch. 160,875; Dec. 11.
Butter. Davis-Cleaver Produce Company. 180,845; Dec. 11.
Butter. I. O. Wise. 178,650; Dec. 11.
Butter, dried beans, bread, etc. H. P. Hood & Sons, Inc. 146,213; Dec. 11.
Calves and yearlings, Live. Highland Hereford Breeder's Association. 186,785; Dec. 11.
Candies. I. C. Candy Co. 186,791; Dec. 11.
Candy. Ambrosia Chocolate Co. 171,888; Dec. 11.
Candy. Walter O. Birk Candy Company. 169,525; Dec. 11.
Candy. J. Mendell. 184,343; Dec. 11.
Candy. V. B. Norris. 185,259; Dec. 11.
Candy. Pangburn Company. 183,538; Dec. 11.
Candy. W. G. Rodiger. 182,997; Dec. 11.
Candy. J. W. Surbrug. 174,220; Dec. 11.
Candy. J. B. Trawley. 185,514; Dec. 11.
Candy. White City Candy Mfg Co. 184,881; Dec. 11.
Candy. A. Widdis. 184,777; Dec. 11.
Candy bar, Chocolate-covered. Shotwell Mfg. Co. 158,898; Dec. 11.
Candy, Chocolate. Maatschappij tot Exploitatie van Rademaker's Koninklijke Cacao en Chocolade Fabrieken. 166,532; Dec. 11.
Canned blueberries. Chandler River Co-Operative Canning Association. 180,208; Dec. 11.
Canned fish. Jos. Garneau Co. 186,899; Dec. 11.
Canned fruits and vegetables. Tamal Packing Co. 181,919–20; Dec. 11.
Canned fruits, vegetables, and fish, jam, etc. M. Harding. 164,912; Dec. 11.
Canned vegetables. Joseph Campbell Company. 172,369; Dec. 11.
Cereal and remedial food, Breakfast. Phospho Food Co. 165,716; Dec. 11.
Cheese. Empire Cheese Company. 157,092; Dec. 11.
Cheese. J. W. Klensch & Co. 159,709; Dec. 11.
Cheese. Pabst Farms. 181,495; Dec. 11.
Chicks and eggs, Baby. Star Chick Hatchery. 176,508; Dec. 11.
Chocolate creams. Fitger Company. 171,166; Dec. 11.
Coffee. Betterton-Rupert Coffee Co. 183,903; Dec. 11.
Confections, Frozen. F. W. Epperson. 180,330; Dec. 11.
Eggs. E. Beck. 178,808; Dec. 11.
Feed, Oats for use as stock. E. E. Anderson. 175,836; Dec. 11.
Feed, Poultry. Western Canada Flour Mills Company. 179,839; Dec. 11.
Feeds, Dairy. Ontario Milling Company Incorporated. 160,297; Dec. 11.
Figs and fig butter, Preserved. C. Schmidt. 181,913; Dec. 11.
Flavoring extracts. A. Beck. 146,196; Dec. 11.
Flavoring extracts. California Laboratories, Inc. 184,588; Dec. 11.
Flavoring extracts, paste vanillas and coffees. M. A. Shepardson. 159,623; Dec. 11.
Flour, Wheat. Holt & Company. 115,504; Dec. 11.
Flour, Wheat. Portland Flour Mills Co. 182,175; Dec. 11.
Food, Cereal breakfast. Kellogg's Pep & Zep Products, Inc. 182,543; Dec. 11.
Food for cattle. J. Bibby & Sons Limited. 175,913; Dec. 11.
Foods, Cereal or breakfast. Lodi Mill & Elevator Co. 169,552; Dec. 11.
Fruits and fresh vegetables, Fresh citrous. Wallerstein Plantations, Inc. 177,532; Dec. 11.
Gum, Chewing. Listerated Gum Corporation. 184,977–8; Dec. 11.
Ice cream, Fruit. N. F. Spinelli. 183,170; Dec. 11.
Mayonnaise, salad and cooking oil, olive oil, and tartar sauce. J. R. Berger. 180,649; Dec. 11.
Meat products. H. L. Handy. 171,079; Dec. 11.
Meats, Preserved. V. Stanisits. 178,148; Dec. 11.
Milk and cream, butter, cheese, and ice cream, Fresh. Purity Maid Products Company. 181,775; Dec. 11.
Milk, Chocolate malted. S. W. Brown Co. 185,556; Dec. 11.
Milk, Evaporated skimmed. Valecia Evaporated Milk Co. 185,941; Dec. 11.
Mush and Philadelphia scrapple, Corn-meal. Colonial Mush Company. 180,964; Dec. 11.
Oil, Olive. European Export Corporation. 185,748; Dec. 11.
Oils, Salad. Strohmeyer & Arpe Company. 186,089; Dec. 11.
Oleomargarine. Standard Nut Margarine Co. 161,649; Dec. 11.
Onions, Fresh. Dingfelder & Balish. 184,659; Dec. 11.
Oranges and lemons. James Mills Orchards Corporation. 186,797; Dec. 11.
Oranges, lemons, and pears. James Mills Orchards Corporation. 186,796; Dec. 11.
Peaches, Fresh. Fruit Haven Farm. 166,053; Dec. 11.
Potatoes. H. C. Whitehead. 180,915; Dec. 11.
Potatoes, Seed. Phillips & Company. 185,644–5; Dec. 11.
Potatoes, Table. Phillips & Company. 185,643; Dec. 11.
Potatoes, Table. Phillips & Company. 185,646; Dec. 11.
Rice and rice flour. Rosenberg Bros. & Co. 161,062; Dec. 11.
Sandwich, Fruit-nut. McCall Groniger Co. 176,414; Dec. 11.
Sugar, Corn. A. E. Staley Manufacturing Company. 179,687; Dec. 11.

CLASS 50.

Artists' sets for children. Elephant Studios. 163,622; Dec. 11.
Bottle crowns. E. M. Blumenthal. 186,100; Dec. 11.
Cotton cloth for use as an acoustical membrane. Johns-Manville, Incorporated. 183,977; Dec. 11.
Incubators and brooders. Montgomery Ward & Co. 187,144; Dec. 11.
Shadow-casting devices, Animated. B. H. Scotford. 161,653; Dec. 11.
Swatters, Fly. Lubbers and Bell Manufacturing Company. 187,325–6. Dec. 11.
Tents. G. H. Dial. 187,205; Dec. 11.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 11TH DAY OF DECEMBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Aagaard, James C., Ord, Nebr. Stock-watering trough. 1,477,411; Dec. 11.
Abbott, Albert L., assignor to Ohio Automatic Sprinkler Company, Youngstown, Ohio. Testing device for automatic sprinkler heads, etc. 1,476,786; Dec. 11.
Abbott Laboratories, The. (See Volwiler, E. H. and Adams, assignors.)
Abrams, John M., Brooklyn, N. Y. Eraser and pencil holder. 1,477,231; Dec. 11.
Acme Artificial Silk Company. (See Huttinger, Charles A., assignor.)
Acme Road Machinery Co. (See Earle, Horatio S., assignor.)
Adams, Robert R., Cincinnati, Ohio. Mechanical figure toy. 1,477,412; Dec. 11.
Adams, Roger. (See Volwiler, E. H., and Adams.)
Adelmann, Hans, assignor to Ham Boiler Corporation, New York, N. Y. Clothesline pulley. 1,476,787; Dec. 11.
Affel, Herman A., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Demodulating apparatus. 1,476,678; Dec. 11.
Aid, Frank E., Chillicothe, Ohio. Fastening device. 1,477,232; Dec. 11.
Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Unloader for compressors. 1,477,161; Dec. 11.
Aitchison, Peter, New Rochelle, N. Y., assignor to American Bank Note Company, New York, N. Y. Collecting mechanism for printed sheets. 1,477,024; Dec. 11.
Alexander, Edward, Seattle, Wash. Collapsible stool. 1,477,233; Dec. 11.
Alexander, Jesse F. (See Lucas, A. F. G., and Alexander.)
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Radio receiving system. 1,477,413; Dec. 11.
Allnall Manufacturing Company. (See Allen, Walter B., assignor.)
Allcutt, Chester T., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Protective device. 1,477,303; Dec. 11.
Allcutt, Chester T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protective device. 1,477,304; Dec. 11.
Allcutt, Chester T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Discharge gap. 1,477,305; Dec. 11.
Allcutt, Chester T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protective device. 1,477,306; Dec. 11.
Allcutt, Chester T., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Protective device. 1,477,307; Dec. 11.
Allen, Walter B., assignor to Allnall Manufacturing Company, Worcester, Mass. Interior-wall finish. 1,477,096; Dec. 11.
Allis-Chalmers Manufacturing Company. (See Brown, Arthur J., assignor.)
Allis-Chalmers Manufacturing Company. (See Dahlstrand, Hans P., assignor.)
Allis-Chalmers Manufacturing Company. (See Jeffrey, Fraser, assignor.)
Allis-Chalmers Manufacturing Company. (See Kollberg, Gustaf L., assignor.)
Allis-Chalmers Manufacturing Company. (See Kusterman, Walter W., assignor.)
Allis-Chalmers Manufacturing Company. (See Motter, William N., assignor.)
Allis-Chalmers Manufacturing Company. (See Nagler, Forrest, assignor.)
Allis-Chalmers Manufacturing Company. (See Patitz, Johann F. M., assignor.)
Allis-Chalmers Manufacturing Company. (See Wilkinson, Nathan, assignor.)
Alm, Einar E., Stockholm, Sweden. Target-practice apparatus. 1,476,676; Dec. 11.
Alvarez, Justo, Flushing, N. Y. Shoe lace. 1,476,677; Dec. 11.
American Bank Note Company. (See Aitchison, Peter, assignor.)
American Concrete-Steel Company. (See Shore, Joseph R., assignor.)
American Creosoting Company. (See Austin, H. E., and Cook, assignors.)
American Dresser Tunnel Kilns, Inc. (See Robertson, Harry M., assignor.)
American Fabrics Company, The. (See Barnum, Harry B., assignor.)
American Fabrics Company, The. (See Page, Samuel H., assignor.)
American Laundry Machinery Company, The. (See Braley, Charles L., assignor.)
American Liquid Meter Company. (See Bassler, Carlos J., assignor.)
American Lithographic Company. (See Hopkins, William L., assignor.)
American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)
American Telephone and Telegraph Company. (See Chapman, Arthur G., assignor.)
American Telephone and Telegraph Company. (See Martin, De Loss K., assignor.)
American Scrubbing Equipment Company. (See Finnell, Walter S., assignor.)
American Steel and Wire Company of New Jersey, The. (See Hindmarsh, P. J., and Meaker, assignors.)
Anaconda Copper Mining Company. (See Elton, J. O., and Caples, assignors.)
Andale Engineering Company. (See Dyson, C. W., and Stuart, assignors.)
Anderson, Charles M., Waterloo, Iowa. Teat cup for milking machines. 1,476,788; Dec. 11.
Anderson, E. D., Inc. (See Beckmann, Carl, assignor.)
Anderson, Fred J., Bishop Hill, L. H. Cowden, Kewanee, and L. Ericson, Bishop Hill, Ill. Planter. 1,477,097; Dec. 11.
Anderson, James B., Shaler Township, Allegheny County, assignor to The Peoples Natural Gas Company, Pittsburgh, Pa. Valve. 1,477,023; Dec. 11.
Andrew, Thomas. Rochdale, England. Yarn package. 1,477,162; Dec. 11.
Animated Picture Products Company. (See Saalburg, Charles W., assignor.)
Antal, John, Brooklyn, N. Y. Jewel case. Des. 63,445; Dec. 11.
Appel, Henry, Plainview, Minn. Box-cover fastener. 1,476,679; Dec. 11.
Argenbright, David E. (See Magann, Douglas P., assignor.)
Arndt, Franklin E., assignor to The Gallon Iron Works & Mfg. Co., Gallon, Ohio. Conveyer and driving mechanism therefor. 1,477,234; Dec. 11.
Assistant Secretary of Agriculture of the United States of America. (See Rogers, Lore A., assignor.)
Atlas Powder Company. (See Carey, Claude H., assignor.)
Atwood, Harry N., Boston, assignor to Rubwood, Inc., Lawrence, Mass. Producing vehicle wheels. 1,477,025; Dec. 11.
Austin, Harold E., Louisville, Ky., and J. C. Cook, Jeffersonville, Ind., assignors to American Creosoting Company, Louisville, Ky. Platform for timber-preserving cylinders. 1,477,414; Dec. 11.
Autosales Corporation. (See Brandt, John, assignor.)
Bacon, Frederic W. (See McCloskey, Alfred C., assignor.)
Badger Rubber Works, The. (See Pratt, Benjamin H., assignor.)
Baker, Gilbert L., Oakdale, Calif. Lock for automobiles. 1,477,026; Dec. 11.
Baker Ice Machine Company. (See Hoeschen, Henry A., assignor.)
Ballard, Milton H., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Press. 1,476,680; Dec. 11.
Balogh, Maria, Buffalo, N. Y. Illuminated automobile license plate. 1,477,415; Dec. 11.
Ballou, B. A., & Company. (See Ballou, Frederick A., jr., assignor.)
Ballou, Frederick A., jr., assignor to B. A. Ballou & Company Inc., Providence, R. I. Neck chain. 1,477,235; Dec. 11.
Balter, Louis, assignor to Balter Tray Manufacturing Co., Inc., New York, N. Y. Dental tray. 1,477,098; Dec. 11.
Balter Tray Manufacturing Co. (See Balter, Louis, assignor.)
Banneyer, Joseph. Chicago, Ill. Sign. 1,476,943; Dec. 11.
Barber Asphalt Paving Company, The. (See Monrath, Gustav, assignor.)
Barchardt, Edward, et al. (See Latta, William W., assignor.)

Barnum, Harry B. Stratford, Conn., assignor to The American Fabrics Company. Lace. Des. 63,446; Dec. 11.
Barthels Manufacturing Co. (See Orthmann, Alfred, assignor.)
Bartmann, Ludwig, Berlin, Germany, assignor to N. V. Maatschappij tot Exploitatie van Bartmann Patenten, 's Gravenhage, Netherlands. Feeding device for disintegrating machines or similar working machines. 1,476,868; Dec. 11.
Bartmess, Meigs W., assignor to The National Screw and Manufacturing Company, Cleveland, Ohio. Centrifugally-operated circuit-controlling device. 1,476,790; Dec. 11.
Barton, Arthur A., Chicago, Ill. Parachute control. 1,477,163; Dec. 11.
Bassett, William W., Billings, Mont. Rack. 1,477,416; Dec. 11.
Bassick Manufacturing Company, The. (See Fesler, Douglas F., assignor.)
Bassler, Carlos J., assignor to American Liquid Meter Company, Portland, Oreg. Controlling device for meters. 1,476,944; Dec. 11.
Bassler, Edwin M., Milwaukee, Wis. Hot-blast heater. 1,476,789; Dec. 11.
Bath, John, Worcester, and W. E. Gray, Hyde Park, Mass., assignors to John Bath & Co., Inc. Adjustable gauge. 1,476,681; Dec. 11.
Bath, John, & Co. (See Bath, J., and Gray, assignors.)
Baum, Gustav, assignor to the Firm of Chemische Fabrik Weissenstein G. m. b. H., Carinthia, Austria. Anode for forming percompounds. 1,477,099; Dec. 11.
Bausch & Lomb Optical Company. (See Kandler, E., and Sabel, assignors.)
Bayer, Arthur O., Philadelphia, Pa. Textile fabric. Des. 63,447; Dec. 11.
Bazeley, Arthur J., assignor to The National Malleable Castings Company, Cleveland, Ohio. Buffer. 1,476,869; Dec. 11.
Beacon Motor Lamp Manufacturing Company. (See Rippner, Harry A., assignor.)
Beale, Samuel C., Los Angeles, assignor to H. J. Forgy, trustee, Santa Ana, Calif. Beet-harvesting machine. 1,476,945; Dec. 11.
Beaver Machine & Tool Company. (See Downing, John B., assignor.)
Beck, Ernest T., assignor to International Silver Company, Meriden, Conn. Spoon or similar article. Des. 63,448; Dec. 11.
Becker, Oliver E. (See Halvorsen, Albert J., assignor.)
Beckman, Herbert S., Los Angeles, Calif. Electric control system for vehicle direction indicators. 1,476,791; Dec. 11.
Beckmann, Carl, assignor to E. D. Anderson, Inc., New York, N. Y. Corn plaster. 1,476,682; Dec. 11.
Beggs, Charles A., Rice Lake, Wis. Dirigible headlight for automobiles and analogous vehicles. 1,477,417; Dec. 11.
Behan, Thomas W., and H. W. Doughty, Binghamton, N. Y. Driving mechanism for washing machines. 1,476,792; Dec. 11.
Belnis, David, Inc. (See Lautz, Frederick C., assignor.)
Bell, Edward M., Mill Spring, N. C. Gearless differential. 1,477,236; Dec. 11.
Bemben, Jan. (See Milczek, Franciszek, assignor.)
Bencker, Franz. (See Kuhne, H., and Bencker.)
Bengy, Gale D. (See Bledsoe, Robert C., assignor.)
Berenson, Israel, Boston, Mass. Traffic signal. Des. 63,449; Dec. 11.
Berg, Carl O., Everett, Mass., assignor to United Metal Seal Company. Machine for providing closures with seals. 1,477,418; Dec. 11.
Berg, Richard O. (See Berg, Simon and R. O.)
Berg, Simon and R. O., assignors to Michigan Steel Tube Products Company, Detroit, Mich. Automatic reverser. 1,476,793; Dec. 11.
Berry, Henry J., assignor of one-half to E. S. Bryant, Detroit, Mich. Pump cylinder and valves therefor. 1,476,794; Dec. 11.
Bertram, August G., New York, N. Y. Valve-actuating mechanism. 1,477,419; Dec. 11.
Bessesen, Alfred N., Minneapolis, Minn. Fluid-pressure device. 1,476,946; Dec. 11.
Bessteel Products Company. (See Herle, Chester A., assignor.)
Beverly Lights Corporation. (See Warman, Percy S., assignor.)
Bilgere, George A., St. Louis, Mo. Steering gear. 1,476,870; Dec. 11.
Billman, Obed C. (See Stump, Ira E., assignor.)
Binns, Edward H. and R. H., Pittsburgh, Pa. Mounting member. 1,477,100; Dec. 11.
Binns, Ralph H. (See Binns, Edward H. and R. H.)
Bisey, Sunker A., New York, N. Y. Nozzle mechanism. 1,477,204; Dec. 11.
Bisey, Sunker A., New York, N. Y. Assembly mechanism. 1,477,205; Dec. 11.
Bishop, Joseph W., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Motor. 1,476,683; Dec. 11.
Bjork, Nils, et al., trustees. (See Hill, Ernst V., assignor.)
Black, Frank A., Detroit, and F. D. Stanly, Grand Rapids, Mich. Flush-tank mold. 1,476,684; Dec. 11.
Black-Strap Fuel and Potash Products Company. (See Hildebrandt, Paul G., assignor.)
Blanchard, George N., assignor to Colmar Burner Company, San Francisco, Calif. Safety mechanism for furnaces. 1,477,027; Dec. 11.
Bledsoe, Robert C., assignor of one-half to G. D. Bengy, Liggett, Ky. Dumping vehicle. 1,476,871; Dec. 11.
Blodgett, Frank C., assignor of one-half to F. J. Seidl, Minneapolis, Minn. Grain-cleaning machine. 1,477,028; Dec. 11.
Blomster, Albert G., San Diego, Calif. Smoking pipe. 1,477,029; Dec. 11.
Blood, Bryant H., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Work support for measuring machines. 1,477,206; Dec. 11.
Bloss, Richard R., assignor to The International Derrick & Equipment Company, Columbus, Ohio. Bull-wheel structure for drilling rigs. 1,477,237; Dec. 11.
Boal, Arthur R. and C. O'Brien, New York, N. Y. Display case. 1,476,872; Dec. 11.
Bock Bearing Company, The. (See Close, Lyman W., assignor.)
Boddie, Clarence A. (See Bradshaw, W. M., and Boddie.)
Bogardus, Leonard R., assignor to Packard Motor Car Company, Detroit, Mich. Dynamometer-control apparatus. 1,477,474; Dec. 11.
Bohlin, Nels and S. Forner, Chicago, Ill. Transmission gearing for motor vehicles. 1,477,208; Dec. 11.
Bouillon, Charles, Paris, France. Treatment of residual waters. 1,476,685; Dec. 11.
Bowen Products Corporation. (See Skelly, Bernard H., assignor.)
Boyd, Gurney E., Pasadena, Calif. Violin support. 1,477,030; Dec. 11.
Brackett, Quincy A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Gap lonizer. 1,477,308; Dec. 11.
Bradley, Stephen A. (See Finch, Nathan W., assignor.)
Bradley Washfountain Co. (See Schlesinger, Louis, assignor.)
Bradshaw, William M., Wilkinsburg, and C. A. Boddie, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Speed-regulator system. 1,477,309; Dec. 11.
Brainard, Pearl H., Macomb, Ill. Heat-insulated container. 1,477,101; Dec. 11.
Braley, Charles L., Chicago, Ill., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Shirt-pressing machine. Re15,728; Dec. 11.
Brandt, John, New York, assignor to Autosales Corporation, Long Island City, N. Y. Vending machine. 1,477,238; Dec. 11.
Brasacchio, Nick F., Tampa, Fla. Lathe. 1,477,102; Dec. 11.
Braun-Brüning & Co. (See Schröder, Edmund, assignor.)
Breitling, Ernst, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Cash register or calculating machine. 1,477,420; Dec. 11.
Brill, Frank. (See Young, W. A., and Brill.)
Brink, William, Henryetta, Okla. Gasoline recovery. 1,477,103; Dec. 11.
Brinley, John W., Lincoln, Nebr. Signal for motor cars. 1,477,104; Dec. 11.
Brooks, Harry, Unlontown, Pa. Potato knife. 1,477,421; Dec. 11.
Brotz, Anton F., assignor to Kohler Company, Kohler, Wis. Multiple-unit system of engine-driven generators. 1,476,686; Dec. 11.
Brown, Arthur J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Winding-securing means for dynamo-electric machines. 1,476,947; Dec. 11.
Brown, Francis H., Glen Olden, Pa., assignor to Petroleum Heat and Power Company, Boston, Mass. Regulating mechanism. 1,476,795; Dec. 11.
Brown, Frederick S., Torrington, Conn. Pipe cleaner. 1,477,207; Dec. 11.
Brown, Theophilus, assignor to Deere & Company, Moline, Ill. Motor cultivator. 1,476,687; Dec. 11.
Brumfield, Thomas R., assignor of one-third to E. M. Graff and one-third to E. L. Walton, Danville, Va. Tobacco container. 1,477,105; Dec. 11.
Brunswick-Balke-Collender Company, The. (See Bishop, Joseph W., assignor.)
Bryan, John H., Moline, Kans. Tractor clutch control. 1,477,422; Dec. 11.
Bryan, Joseph T., assignor of one-half to L. W. Culver, Seaford, Del. Device for blowing out oil pipes. 1,477,239; Dec. 11.
Bryant, Ellsworth S. (See Berry, Henry J., assignor.)
Buchanan, James L. (See Sauzedde, C., and Buchanan.)
Buchanan, Judson, Chattanooga, Tenn., assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Apparatus for making chilled castings. 1,477,423; Dec. 11.
Bucyrus Company. (See Ferris, Walter, assignor.)
Bundy, Harry W., Detroit, Mich. Machine for forming tubes. 1,476,796; Dec. 11.
Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Des. 63,450; Dec. 11.
Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Des. 63,451; Dec. 11.

Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Des. 63,452; Dec. 11.
Burnham, George B., Glendale, Calif. Recovering valuable components from a complex liquid phase. 1,476,873; Dec. 11.
Butterfield, Fred. & Co. (See Vandergaw, E. B., and Heinrich, assignors.)
Cady, Sherman W., Auburn, N. Y., assignor to International Harvester Company. Leverless disk harrow. 1,477,526; Dec. 11.
Cahill, Edwin D. (See Clemens, John G., assignor.)
Caldwell, George, Washington, D. C. Vegetable-slicing machine. 1,477,106; Dec. 11.
Callan, John, Ray, Ariz. Hose supporter. 1,477,424; Dec. 11.
Callender, Wallace V., Chicago, Ill. Self-heating soldering iron. 1,476,948; Dec. 11.
Cameron Can Machinery Co. (See Cameron, William, assignor.)
Cameron, William, assignor to Cameron Can Machinery Co., Chicago, Ill. Automatic die press. 1,477,240; Dec. 11.
Canning, George, Los Angeles, Calif. Automobile robe holder. 1,477,031; Dec. 11.
Caples, Russel B. (See Elton, J. O., and Caples.)
Carbide and Carbon Chemicals Corporation. (See Martin, James W., jr., assignor.)
Carbon, Timothy. (See Gibbons, John W., assignor.)
Cardullo, Forrest E., assignor to The G. A. Gray Company, Cincinnati, Ohio. Metal planer. 1,476,949; Dec. 11.
Carey, Claude H., assignor to Atlas Powder Company, Wilmington, Del. Method of and apparatus for the manufacture of sulphuric anhydride. 1,477,107; Dec. 11.
Carlin, John P., Cromwell, Conn. Hinge for cooking utensils. 1,476,797; Dec. 11.
Carlson, Gustave A., Detroit, Mich. Polishing machine. 1,477,426; Dec. 11.
Carman, Edwin S., East Cleveland, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Flask-filling machine. 1,476,688; Dec. 11.
Carpenter, Arthur W., New York, N. Y. Making mottled color screens. 1,476,874; Dec. 11.
Carson, Oswald B., Brooklyn, N. Y. Display device for advertising purposes. 1,477,241; Dec. 11.
Carter, Willis M., Hoboken, N. J., assignor to The W. F. Powers Company. Mounting machine. 1,477,032; Dec. 11.
Cartwright, Horace A., Akron, Ohio. Differential gearing. 1,477,310; Dec. 11.
Cartwright, Horace A., Akron, Ohio. Differential mechanism. 1,477,311; Dec. 11.
Casey, Charles C., Detroit, Mich. Tow-compartment tray. 1,476,750; Dec. 11.
Caskey, Albert F., Tiffin, Ohio. Antiglare attachment. 1,477,312; Dec. 11.
Cataldo, Ralph F., Chelsea, Mass. Tire. 1,477,425; Dec. 11.
Celite Company, The. (See Thatcher, Harry S., assignor.)
Cellarius, Frederick A., San Francisco, Calif. Device for clamping and holding papers, etc. 1,476,951; Dec. 11.
Champion Machine & Forging Company, The. (See Greve, Louis W., assignor.)
Champion Shoe Machinery Company. (See Dobyne, Stephen A., assignor.)
Chapman, Arthur G., East Orange, N. J., assignor to American Telephone and Telegraph Company. Electrical testing system. 1,476,689; Dec. 11.
Chattin, Robert C., Mountain Home, Idaho. Irrigation ditcher. 1,477,033; Dec. 11.
Chemische Fabrik Griesheim-Elektron. (See Suchy, Robert, assignor.)
Chemische Fabrik Weissenstein G. m. b. H. (See Baum, Gustav, assignor.)
Christensen, Edna M., Winner, S. Dak. Crochet needle. 1,477,427; Dec. 11.
Christopher, Daniel L., assignor to Leavitt Mfg. Company, Urbana, Ill. Portable grand stand with permanent base. 1,477,242; Dec. 11.
Cincinnati Car Company, The. (See Elliott, Thomas, assignor.)
Clark, Charles A., Sioux City, Iowa. Car door. 1,476,950; Dec. 11.
Clark, James R., assignor to Yawman & Erbe Manufacturing Co., Rochester, N. Y. Sheet-metal furniture. 1,476,798; Dec. 11.
Clark, William C., et al. (See Topp, Maurice J., assignor.)
Clayton, William F., assignor of one-third to R. E. Smith, Huntsville, Ala. Thin-place detector. 1,477,034; Dec. 11.
Clayton, William F., assignor of one-third to R. E. Smith, Huntsville, Ala. Thin-place detector. 1,477,035; Dec. 11.
Clemens, John G., Buffalo, N. Y., assignor, by mesne assignments, to E. D. Cahill, Hamilton, Ontario, Canada. Renewable fuse plug. 1,476,875; Dec. 11.
Clench, William A., Seattle, Wash. Locking device for wheel rims. 1,476,952; Dec. 11.
Close, Lyman W., assignor to The Bock Bearing Company, Toledo, Ohio. Roller bearing. 1,477,164; Dec. 11.
Coates, Robert, assignor to The Regina Corporation, Rahway, N. J. Handle latch for vacuum cleaners. 1,477,243; Dec. 11.
Cobb, Henry Z., New York, N. Y., assignor to New York Belting and Packing Company. Gang cutter for sheet stock. 1,477,108; Dec. 11.
Cohen, Louis, and J. O. Mauborgne, Washington, D. C. Electrical signaling. 1,476,691; Dec. 11.
Cohn, Abraham, St. Louis, Mo. Combined cushion shoe heel and arch support. 1,476,690; Dec. 11.
Cohn, Albert. (See Debs, Louis H., assignor.)
Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,477,313; Dec. 11.
Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-flatiron cut-out. 1,477,314; Dec. 11.
Colgate, William A., Garden City, N. Y. Bearing device for circle swings. 1,477,429; Dec. 11.
Colla, Joseph, Issoire, France. Brake control for front wheels of motor vehicles. 1,477,037; Dec. 11.
Collins, Charles S., New York, and L. Roessel, Brooklyn, N. Y. Apparatus for controlling the maximum flow of fluids. 1,477,244; Dec. 11.
Collis, O. D. (See Cushman, Everett B., assignor.)
Colmar Burner Company. (See Blanchard, George N., assignor.)
Colonial Metal Products Company, The. (See Vandercar, William J., assignor.)
Combaz, Alfred, St. Boniface, Manitoba, Canada. Exhaust silencer. 1,477,315; Dec. 11.
Comfort, Edward W., Winchester, assignor to Parks-Cramer Company, Fitchburg, Mass. Automatic indicator of wet and dry bulb temperature and relative humidity. 1,476,799; Dec. 11.
Compagnie d'Applications Mecaniques. (See Rouanet, Louis, assignor.)
Conant, Arthur P., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase bow. Des. 63,453; Dec. 11.
Conant, Arthur P., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase dial. Des. 63,454; Dec. 11.
Conklin, Robert M., Jersey City, N. J. Discharge-chute shutter. 1,477,245; Dec. 11.
Conklin, Robert M., Jersey City, N. J. Valve-pocket agitator. 1,477,246; Dec. 11.
Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radiomodulation system. 1,477,316; Dec. 11.
Cook, Bernard, Roanoke, Va. Service metal wheel gauge. 1,477,036; Dec. 11.
Cook, Jesse C. (See Austin, H. E., and Cook.)
Corbett, John A., Los Angeles, Calif. Showcase. 1,477,428; Dec. 11.
Cornick, Tully R., Petaluma, Calif. Automobile lock system. 1,477,317; Dec. 11.
Corona Typewriter Company. (See Ely, Alonzo B., assignor.)
Corporon, Gaines H., Citrusgrove, Tex. Propeller. 1,477,247; Dec. 11.
Cosgray, Mark C., Sandusky, Ohio. Electrical instrument contact. 1,476,800; Dec. 11.
Costmeter Company. (See Quigley, John T., assignor.)
Cowan, Willis B., assignor of one-fourth to G. H. De Vore, Colorado Springs, Colo. Radiator for automobiles. 1,477,209; Dec. 11.
Cowden, Lawrence H. (See Anderson, F. J., Cowden, and Ericson.)
Cowles, C. & Company. (See Gates, Louis W., assignor.)
Cowper-Coles, Sherard O., Sunbury-on-Thames, England. Manufacture of zinc cylinders for primary batteries. 1,477,109; Dec. 11.
Cox, G. Clay. (See Janes, Joseph, assignor.)
Crane, Harry W., Bridesburg, Philadelphia, Pa. Rim tool and wheel puller. 1,476,692; Dec. 11.
Crass, George F., Ithaca, N. Y. Lock. 1,477,318; Dec. 11.
Creighton, Claud L., Megargel, Tex. Embroidery tool. 1,477,430; Dec. 11.
Croizier, Marguerite N., Marseille, France. Corset. 1,476,694; Dec. 11.
Crompton & Knowles Loom Works. (See Robertson, William W., assignor.)
Crompton & Knowles Loom Works. (See Ryon, Eppa H., assignor.)
Crone, Leonard S., New York, N. Y. Means employed in compilation. 1,476,876; Dec. 11.
Cross, Raymond E., New Brunswick, N. J. Swinging article of furniture. 1,477,110; Dec. 11.
Crosskill, Millicent W. H., New York, N. Y. Flour-sifting utensil. 1,476,693; Dec. 11.
Cubbage, Arthur B., Los Angeles, Calif., and H. Milliman, New York, N. Y. Camera. 1,477,038; Dec. 11.
Culver, Arthur C., Pasadena, Calif. Direct-drive differential. 1,477,039; Dec. 11.
Culver, Levin W. (See Bryan, Joseph T., assignor.)
Curtis, Van V., McAllen, Tex. Automobile jack. 1,476,877; Dec. 11.
Cushman, Everett B., San Jose, Calif., assignor, by mesne assignments, to O. D. Collis, Clinton, Iowa. Water cooler. 1,477,319; Dec. 11.
Cutler-Hammer Mfg. Co., The. (See Meyer, F. W., and Simon, assignors.)
Dabl, Thure, New York, N. Y. Ring for lighting fixtures. Des. 63,455; Dec. 11.

Dahl, Thure E., New York, N. Y. Wall bracket for lighting fixtures. Des. 63,456; Dec. 11.
Dahlberg, C. F. (See Shaw, John K., assignor.)
Dahlstrand, Hans P., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Turbine. 1,476,801; Dec. 11.
Danley, William, Charleston, Tex. Rat trap. 1,477,320; Dec. 11.
Darling, Elton R., Montclair, N. J., assignor to Ellis-Foster Company. Treating bismuth ores. 1,477,321; Dec. 11.
Daugherty, Chalmer B., assignor to The Dayton Manufacturing Company, Dayton, Ohio. Antirattling device. 1,477,248; Dec. 11.
Davidson, Thomas M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for filling containers with explosives. 1,477,040; Dec. 11.
Davis, Henson, Roundup, Mont. Miner's carbide lamp. 1,477,431; Dec. 11.
Davis, Joseph F. (See Tverdahl, Edward A., assignor.)
Davis, Walter L., Chicago, Ill. Telephone apparatus. 1,476,953; Dec. 11.
Dayton Manufacturing Company, The. (See Daugherty, Chalmer B., assignor.)
Debs, Louis H., assignor of one-half to A. Cohn, Chicago, Ill. Baking pan. 1,477,249; Dec. 11.
De Busk, William H., assignor to The P. & M. Company, Chicago, Ill. Rail anchor. 1,476,802; Dec. 11.
Decker, Lemuel B., Kenogami, Quebec, Canada. Recovery apparatus. 1,477,041; Dec. 11.
Deely, Harold P., Waterbury, Conn. Swivel block. 1,476,696; Dec. 11.
Deere & Company. (See Brown, Theophilus, assignor.)
Deere & Company. (See Strandlund, Carl G., assignor.)
Degheri, Theresa M. (now by marriage T. M. O'Toole), Hoboken, N. J. Educational and amusement device. 1,477,322; Dec. 11.
De Giglio, Gaetano, Turin, Italy. Calculating machine. 1,477,116; Dec. 11.
De Graff, Judson C., Harrisville, N. Y. Cotter-pin puller. 1,476,695; Dec. 11.
De Laval Separator Company, The. (See Leitch, Meredith, assignor.)
De Long Hook and Eye Company, The. (See Upham, Gilbert R., assignor.)
Deming & Gould Company. (See Malmquist, Adolph K., assignor.)
De Minico, Frank, assignor to Pollard-Alling Manufacturing Company, New York, N. Y. Printing plate. 1,476,803; Dec. 11.
Denholm, William J., et al., trustees. (See Hill, Ernst V., assignor.)
Denman, Walter R., Cleveland, Ohio. Tire. Des. 63,457; Dec. 11.
Denman, Walter R., Cleveland, Ohio. Tire. Des. 63,458; Dec. 11.
Denmire, Harold A., assignor to The General Tire and Rubber Company, Akron, Ohio. Box-making machine. 1,476,954; Dec. 11.
Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Land packer. 1,477,323; Dec. 11.
Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Corporation. Cultivator-beam coupling. 1,477,324; Dec. 11.
De Pars, William M., Paterson, N. J. Tobacco pipe. 1,476,955; Dec. 11.
De Simone, Michele G., Stapleton, N. Y., assignor, by mesne assignments, to New York Calculating Machine Company, Inc. Denominator and adding machine. 1,476,804; Dec. 11.
Dessau, Morland M., London, England. Tire. 1,476,878; Dec. 11.
De Talmond, Charles, New York, N. Y. Link. 1,477,475; Dec. 11.
De Vore, George H. (See Cowan, Willis B., assignor.)
Dewend, William D., assignor to Oliver Chilled Plow Works, South Bend, Ind. Agricultural implement. 1,476,879; Dec. 11.
Dion, Isaie, Swansea, Mass. Square. 1,477,210; Dec. 11.
Dinkelspiel, Lawrence, West New York, N. J., assignor to Harnapp, Dinkelspiel & Co. Inc. Doily, centerpiece, scarf, or similar article. Des. 63,459; Dec. 11.
Dixon, Israel K., Johnstown, Pa. Switch-operating mechanism. 1,477,325; Dec. 11.
Diesk, John, Berwyn, assignor to U. S. Ball Bearing Manufacturing Company, Chicago, Ill. Feeding drum. 1,477,211; Dec. 11.
Dobbelaar, Ransom A., Newark, N. J. Automobile lock. 1,477,165; Dec. 11.
Dobelin, Charles W. (See Morhoff, E. W., and Dobelin.)
Dobyne, Stephen A., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Bearing support. 1,477,250; Dec. 11.
Dodd, Henry S., assignor to J. R. L. Starr, Toronto, Ontario, Canada. Electric iron. 1,477,326; Dec. 11.
Donzero, Peter, Clinton, Ind. Antitheft lock. 1,477,432; Dec. 11.
Dorris, George P., St. Louis, Mo. Steering device. 1,476,956; Dec. 11.
Dosenbach, Benjamin H., deceased, Butte, Mont.; E. M. Dosenbach, executrix. Concentrating ores. 1,477,476; Dec. 11.
Dosenbach, Edna M., executrix. (See Dosenbach, Benjamin H.)
Doss, Noble C., Atlanta, Ga. Antiskidding device. 1,477,042; Dec. 11.
Doughty, Herman W. (See Behan, T. W., and Doughty.)
Downing, John B., assignor to Beaver Machine & Tool Company, Newark, N. J. Electric switch. 1,477,251; Dec. 11.
Drake, Lemuel E., Modesto, Calif. Lid fastener for milk cans. 1,477,043; Dec. 11.
Draper Corporation. (See Rhoades, Alonzo E., assignor.)
Dresser, George L., Albany, N. Y. Paving block. 1,476,957; Dec. 11.
Drushel, William A., Grand Rapids, Mich., assignor to Haskelite Manufacturing Corporation. Making waterproof blood glue. 1,476,805; Dec. 11.
Duberg, Per E., Hallsberg, Sweden. Water heater for stoves. 1,477,166; Dec. 11.
Dubilier, William. (See Lowenstein, Fritz, assignor.)
Duca, Sante, New York, N. Y. Praying or confessional stand. 1,477,327; Dec. 11.
Duffy, Miles R., Chicago, Ill. Pavement light. 1,476,958; Dec. 11.
Duffy, Thomas. (See Jez, F., and Duffy.)
Duncan, Newton O., Kingsville, Tex. Percolator. 1,476,959; Dec. 11.
Dunnet, Orville R., Charra, West Coast, South Australia, Australia. Motor-vehicle suspension. 1,477,477; Dec. 11.
Du Pont, E. I., de Nemours & Company. (See Davidson, Thomas M., assignor.)
Du Pont, E. I., de Nemours & Company. (See Essex, H., and Ward, assignors.)
Du Pont, E. I., de Nemours and Company. (See Houlehan, Arthur E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Tanberg, A. P., and Winkel, assignors.)
Du Pont, E. I., de Nemours & Company. (See Wilson, Elbert A., assignor.)
Duquesne Burner Service Co. (See Nordensson, C. O., and Mettler, assignors.)
Dwyer, Francis P., assignor to Travelight Manufacturing Co., Philadelphia, Pa. Pencil purse. 1,476,697; Dec. 11.
Dyrr, Jacob V., Bell, Calif. Collapsible camp bed. 1,477,044; Dec. 11.
Dyson, Charles W., U. S. Navy, and M. C. Stuart, Annapolis, Md., assignors to Andale Engineering Company, Philadelphia, Pa. Evaporator. 1,477,328; Dec. 11.
Earle, Horatio S., Detroit, Mich., assignor to Acme Road Machinery Co., Frankfort, N. Y. Gravel crushing and screening device. 1,476,880; Dec. 11.
Eaton, Edwin R., Orillia, Ontario, Canada. Tent attachment for motor vehicles. 1,477,111; Dec. 11.
Eckertz, Heinrich, Essen-Rellinghausen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Apparatus for loading motor vehicles. 1,477,212; Dec. 11.
Edell, Fred B., Chicago, Ill. Flush valve. 1,477,329; Dec. 11.
Edmunds & Jones Corporation. (See Kerwin, Thomas J., assignor.)
Edmunds & Jones Corporation. (See Snorf, Newton L., assignor.)
Ekland, Thomas C., Washington, Pa. Draw spike. 1,476,698; Dec. 11.
Electropure Corporation. (See Turner, Robert C., assignor.)
Ellensohn, Hans, Vienna, Austria. Device for securing the heels of shoes or boots. 1,477,045; Dec. 11.
Elliott, John O., Fargo, N. Dak. Check book. 1,477,330; Dec. 11.
Elliott, Thomas, Cincinnati, assignor to The Cincinnati Car Company, Winton Place, Ohio. Railway car. 1,476,960; Dec. 11.
Ellis-Foster Company. (See Darling, Elton R., assignor.)
Elton, James O., and R. B. Caples, Great Falls, Mont., assignors to Anaconda Copper Mining Company. Hydrometallurgical treatment of zinc ore. 1,477,478; Dec. 11.
Ely, Alonzo B., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Cushioning device. 1,477,331; Dec. 11.
Elzey, Edgar P., Parkersburg, W. Va. Elevating truck or cradle for motor vehicles. 1,477,332; Dec. 11.
Engel, William C., Ashland, Pa. Automobile spring regulator. 1,477,433; Dec. 11.
Engman, Arthur J., Canton, Ohio. Metal door. 1,477,213; Dec. 11.
Engman, Arthur J., Canton, Ohio. Metal door. 1,477,214; Dec. 11.
Enright, Cornelius S., Cle Elum, Wash. Dispensing machine. 1,477,434; Dec. 11.
Eppenstein, Otto, assignor to the Firm of Carl Zeiss, Jena, Germany. Telemeter. 1,477,112; Dec. 11.
Erickson, Claus E., Des Moines, Iowa. Service holder for ice picks and books. Des. 63,460; Dec. 11.
Ericson, Le Roy. (See Anderson, F. J., Cowden, and Ericson.)
Erven, Andrew, Westville, Ill. Surface plow cultivator. 1,477,333; Dec. 11.
Essex, Harry, and A. L. Ward, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Making halolefines. 1,477,047; Dec. 11.

Essex, Harry, and A. L. Ward, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Synthesis of glycerol. 1,477,113; Dec. 11.
Eustege, Thomas P., Wellington, New Zealand. Aperture sight. 1,476,806; Dec. 11.
Evans, Albert C., Butte, Mont. Printer's chase. 1,477,046; Dec. 11.
Evans, Benjamin A., and I. Zwisler, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for covering rings. 1,476,807; Dec. 11.
Evans, Guy J., Buffalo, N. Y. Stenciling device. 1,477,479; Dec. 11.
Ewing, Joseph H., Malta, Ohio. Gaming device. 1,477,334; Dec. 11.
Excelsior Steel Furnace Company. (See Scherer, Albert G., assignor.)
Fabret, François J., Nice, France. Apparatus for producing local anæsthesia. 1,476,699; Dec. 11.
Fagan, John J., Jersey City, N. J. Sewer-basin head. 1,477,435; Dec. 11.
Fahnestock, Archie P., Plandome, N. Y. Electric switch. 1,477,335; Dec. 11.
Fanger, Fred E., Mexico, Mexico. Attachment for typewriters. 1,477,048; Dec. 11.
Fa. P. S.-Vergaser- und Apparatebau-Aktiengesellschaft. (See Pordes, Dore, assignor.)
Farbenfabriken vorm. Friedr. Bayer and Co. (See Kuhne, H., and Bencker, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Sohst, Otto, assignor.)
Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Speed-governing switch device. 1,477,215; Dec. 11.
Faubion, Lee N., Fairbury, Nebr. Yard meter for hemstitching machines. 1,477,049; Dec. 11.
Faulk, George M., Ruston, La. Oven. 1,477,050; Dec. 11.
Faust, John F., Wapakoneta, assignor to New Way Laboratories Company, Greenville, Ohio. Automatic control. 1,477,216; Dec. 11.
Fay, Richard D., Nahant, and F. R. Shaw, East Bridgewater, assignors, by mesne assignments, to Hayes-Fay Laboratories, Inc., Boston, Mass. Means for attaching flexible labels to the ends of boards. 1,477,336; Dec. 11.
Fegley, Thomas J., and G. O. Leopold, assignors to North Bro's M'f'g Co., Philadelphia, Pa. Spiral tool. 1,477,337; Dec. 11.
Feldstein, Max, Chicago, Ill. Container cap. 1,476,700; Dec. 11.
Feliz, Joseph S., Concepcion, Calif. Oil-well pump. 1,477,217; Dec. 11.
Ferguson, Andrew, Seattle, Wash. Amalgamator. 1,476,808; Dec. 11.
Ferguson Brothers Manufacturing Company. (See Hanley, William, assignor.)
Ferris, Walter, Milwaukee, assignor to Bucyrus Company, South Milwaukee, Wis. Drum or screen drive and supporting means. 1,476,702; Dec. 11.
Fesler, Douglas F., Evanston, assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricating means. 1,477,252; Dec. 11.
Fiala, Joseph S., Chicago, Ill. Laundry stand. 1,477,253; Dec. 11.
Fiedler, Gustav, New York, N. Y. Smoker's tray. Des. 63,461; Dec. 11.
Fieldhouse, James H. (See Pope, H. C., and Fieldhouse.)
Finch, Nathan W., assignor of one-half to S. A. Bradley, Springfield, Ill. Road grader. 1,476,881; Dec. 11.
Finlayson, Thomas, Oakland, Calif. Portable power cut-off saw. 1,477,114; Dec. 11.
Finley, Thomas M., St. Louis, Mo. Flying machine. 1,477,338; Dec. 11.
Finnell, Walter S., assignor to American Scrubbing Equipment Company, Chicago, Ill. Mop truck. 1,476,961; Dec. 11.
First Trust and Savings Bank of Sterling. (See Kroff, Leonard D., assignor.)
Fischer, Albert C., Chicago, Ill. Roofing cleat. 1,477,167; Dec. 11.
Fisk Rubber Company, The. (See Mather, George L., assignor.)
Flanigan, Hiram T. (See Hobbs, O. P., and Flanigan.)
Flanigan, Pinkney A. (See Hobbs, O. P., and Flanigan.)
Flauder, Alfred J., assignor to The Wiedlich Bros. Mfg. Co., Bridgeport, Conn. Vase. Des. 63,462; Dec. 11.
Fleming, Claude E., Detroit, Mich. Carburetor. 1,476,701; Dec. 11.
Fohr, Carl. (See Kleinschmidt, E., and Fohr.)
Folk, Joseph, assignor to U. S. Slicing Machine Company, Laporte, Ind. Slice collector for slicing machines. 1,477,254; Dec. 11.
Forgy, Horatio J., trustee. (See Beale, Samuel C., assignor.)
Forman, Paris R., Chicago, Ill., assignor to National Pneumatic Company, New York, N. Y. Door-operating mechanism. 1,476,703; Dec. 11.
Forner, Sven. (See Bohlin, N., and Forner.)
Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Immersion water heater. 1,477,339; Dec. 11.
Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Electric coffee percolator. 1,477,340; Dec. 11.
Forsyth, John A., Nemacolin, assignor of one-fourth to C. J. Smith, Uniontown, Pa. Apparatus for loading coal. 1,476,882; Dec. 11.
Franklin Railway Supply Company. (See Martin, Frederick W., assignor.)
Franklin Railway Supply Company. (See Roberts, Montague H., assignor.)
Frederickson, Raleigh J., Marion, S. Dak. Printing, developing, and fixing apparatus. 1,476,883; Dec. 11.
Freund, Herman R., assignor to Intertype Corporation, Brooklyn, N. Y. Matrix for typographical machines. 1,477,436; Dec. 11.
Fried. Krupp Aktiengesellschaft. (See Breitling, Ernst, assignor.)
Fried. Krupp Aktiengesellschaft. (See Eckertz, Heinrich, assignor.)
Friedman, Joseph, Brooklyn, N. Y. Kettle or similar article. Des. 63,463; Dec. 11.
Frisbie, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Spark-producing mechanism. 1,476,962; Dec. 11.
Fritz, Emil F. L., Chicago, Ill. Clothespin. 1,477,256; Dec. 11.
Fritz, Lewis, Chicago, Ill. Educational block. 1,477,255; Dec. 11.
Fritz, Lewis, Chicago, Ill. Shaft-alinement gauge. 1,477,257; Dec. 11.
Fulton, William H., Irvington, N. J., assignor to Titeflex Metal Hose Corporation. Engine exhaust means. 1,476,704; Dec. 11.
Funasaka, Hatchiro, Kyoto, Japan. Permanent embossment of cloth of animal fiber. 1,476,705; Dec. 11.
Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting of sheet material. 1,476,706; Dec. 11.
Gade, Harald F., Philadelphia, assignor to Standard Pressed Steel Co., Jenkintown, Pa. Lubricating means for loose pulleys, gears, etc. 1,477,051; Dec. 11.
Gadecki, Philip, Mystic, Iowa. Mechanical toy. 1,477,341; Dec. 11.
Galion Iron Works & Mfg. Co., The. (See Arndt, Franklin E., assignor.)
Gallagher, Walter J., Cincinnati, Ohio. Jar opener. 1,476,707; Dec. 11.
Garrett, Robert L., and J. L. Goolsby, Marlin, assignors of one-third to W. F. Gillette, Falls County, Tex. Steering arm. 1,477,168; Dec. 11.
Gast, Carl, Barmen, Germany. Double-barreled machine gun with recoiling barrels. 1,477,115; Dec. 11.
Gates, Louis W., assignor to C. Cowles & Company, New Haven, Conn. Lock. 1,477,342; Dec. 11.
Gaynor, Joseph, Jersey City, N. J. Machine for shaping and forming fabric cases. 1,477,437; Dec. 11.
Gebhardt, Henry J., Chicago, Ill. Automatically-controlled soot blower. 1,476,809; Dec. 11.
General Electric Company. (See Alexanderson, Ernst F. W., assignor.)
General Electric Company. (See Halliwell, Reginald F., assignor.)
General Electric Company. (See Johannesen, Svend E., assignor.)
General Electric Company. (See Junggren, Oscar, assignor.)
General Electric Company. (See Knopp, Otto A., assignor.)
General Electric Company. (See Traver, Oliver C., assignor.)
General Electric Company. (See Treanor, Edward D., assignor.)
General Electric Company. (See Walle, Ludwig S., assignor.)
General Electric Company. (See Weber, L. J., and Gooch, assignors.)
General Railway Signal Company. (See Wight, Sedgwick N., assignor.)
General Tire and Rubber Company. (See Denmire, Harold A., assignor.)
Gerber, David, Baltimore, Md. Ice-cream cone. Des. 63,464; Dec. 11.
Gibbons, John W., Merced Falls, assignor of one-half to T. Carlon, La Grange, Calif. Vehicle gate. 1,476,963; Dec. 11.
Gibbs, James D., Louisville, Ky. Friction gearing. 1,477,052; Dec. 11.
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Electric motor. 1,476,708; Dec. 11.
Gilbert, Charles R., assignor of one-half to W. J. Goth, Los Angeles, Calif. Combination placer machine. 1,477,053; Dec. 11.
Gilbert, William J., Chicago, Ill. Building tile. 1,477,258; Dec. 11.
Gillette, William F. (See Garrett, R. L., and Goolsby, assignors.)
Gillmann, Henry, St. Louis, Mo. Folding washbeneh. 1,476,709; Dec. 11.
Gilsenan, John, New York, N. Y. Nozzle. 1,476,810; Dec. 11.
Girten, James, Chicago, Ill. Elevator-door lock. 1,476,710; Dec. 11.
Gleason, Samuel A., New York, N. Y. Advertising device. 1,477,117; Dec. 11.

Glover, Frank N., Brooklyn, N. Y. Support for collapsible tubes. 1,477,169; Dec. 11.
Glowacki, John B., Chicago, Ill. Renewable fuse. 1,476,964; Dec. 11.
Goertz, August, & Co. (See Whitcomb, R., and Goertz, assignors.)
Goertz, Frederick. (See Whitcomb, R., and Goertz.)
Gooch, Ernest C. (See Weber, L. J., and Gooch.)
Goode, Gilbert C., East Cleveland, assignor to The White Motor Company, Cleveland, Ohio. Rear-axle gearing. 1,477,170; Dec. 11.
Goodfellow, John H., Buffalo, N. Y. Boiler-tube sucker and soot ejector. 1,477,118; Dec. 11.
Goodman Manufacturing Company (See Pray, Thomas E., assignor.)
Goodrich, B. F., Company. (See Evans, B. A., and Zwisler, assignors.)
Goodrich, B. F., Company, The. (See Martin, Frederick H., assignor.)
Goodrich, B. F., Company, The. (See Sproull, John C., assignor.)
Gookin, Albert T., Cambridge, Mass. Guard and signal for railways, etc. 1,477,438; Dec. 11.
Goolsby, James L. (See Garrett, R. L., and Goolsby.)
Goth, William J. (See Gilbert, Charles R., assignor.)
Gottschalk, Albert, assignor to National Pneumatic Company, New York, N. Y. Emergency door-control apparatus. 1,476,711; Dec. 11.
Gough, Ned E., Seattle, Wash. Mandrel. 1,477,054; Dec. 11.
Graf, Emil, assignor, by mesne assignments, to R. Steinacher, New York, N. Y. Spark plug. 1,477,119; Dec. 11.
Graff, Emil M., et al. (See Brumfield, Thomas R., assignor.)
Grant, Frank, Westfield, Mass. Shaving-soap-stick holder. 1,476,965; Dec. 11.
Grasberger, Lawrence B. (See Keenan, John F., assignor.)
Grasselli Chemical Company, The. (See Howard, Henry, assignor.)
Grau, Henry W., Long Green, Md. Portable drill attachment. 1,477,439; Dec. 11.
Graves, Walter S. (See Steiner, F. M., and Graves.)
Gray, G. A., Company, The. (See Cardullo, Forrest E., assignor.)
Gray, Walter R. (See Bath, J., and Gray.)
Greater Detroit Rexall Club. (See Sesser, Willy G., assignor.)
Gregg, William H. (See Hachmann, Frederick, assignor.)
Gregory, Eli E., Lewisport, Ky. Gun sight. 1,476,884; Dec. 11.
Greve, Louis W., assignor to The Champion Machine & Forging Company, Cleveland, Ohio. Making counterbalanced crank shafts. 1,476,811; Dec. 11.
Greve, Louis W., assignor to The Champion Machine & Forging Company, Cleveland, Ohio. Making counterbalanced crank shafts. 1,476,812; Dec. 11.
Grier, Frederick A., jr., Salisbury, Md. Coupling device. 1,477,440; Dec. 11.
Griffin, George B., Springfield, Mass., assignor to Westinghouse Electric Products Company. Rotary toaster stove. 1,477,343; Dec. 11.
Griffith, David W., Mamaroneck, N. Y. Method and means for taking moving pictures. 1,476,885; Dec. 11.
Griffiths, William U., Llanwellyn, Pa. Valve-operating mechanism for flush tanks. 1,476,813; Dec. 11.
Groene, William F., assignor, by mesne assignments, to The R. K. Leblond Machine Tool Company, Cincinnati, Ohio. Combined power and hand operated feed mechanism. 1,477,480; Dec. 11.
Gruen Watch Company, The. (See Haerr, Harold R., assignor.)
Guadagni, Guido S., Providence, R. I. Depositing machine. 1,477,344; Dec. 11.
Guerrant, John L., Sedalia, Mo. Freight-car door. 1,477,055; Dec. 11.
Guiley, Henri A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Rotation release for rock drills. 1,476,814; Dec. 11.
Guinzburg, Victor, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Garment. 1,477,218; Dec. 11.
Gulf Refining Company. (See Watkeys, Thomas L., assignor.)
Haase, Jorgen L., Towson, and E. A. Metz, Glenarm, assignors to F. X. Hooper Company, Inc., Glenarm, Md. Counterbalanced tape delivery for printing presses. 1,477,441; Dec. 11.
Hachmann, Frederick, assignor to W. H. Gregg, St. Louis, Mo. Detachable hinge. 1,476,966; Dec. 11.
Haerr, Harold R., assignor to The Gruen Watch Company, Cincinnati, Ohio. Case. 1,477,481; Dec. 11.
Hafelfinger, Emil F., Weehawken, N. J. String tensioner for violins. 1,476,712; Dec. 11.
Hagadone, Clinton A., Western Springs, Ill., assignor to International Harvester Company. Tractor hitch for wagons. 1,477,345; Dec. 11.
Hager, Albert R., Shanghai, China, assignor to The Mah-Jong Company of China, San Francisco, Calif. Cabinet for holding games. 1,477,056; Dec. 11.
Hagman, William J., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, New York, N. Y. Lever-locking device for hydraulic machines. 1,477,171; Dec. 11.
Hall, Benjamin J., Fieldend, Eastcote, and C. F. G. Thorkelin, London, England. Arc lamp for photographic and other purposes. 1,477,057; Dec. 11.
Halliwell, Reginald F., Leamington, England, assignor to General Electric Company. Valve mechanism. 1,477,346; Dec. 11.
Halvorsen, Albert J., assignor to O. E. Becker, Chicago, Ill. Clamp. 1,477,219; Dec. 11.
Halvorsen, Fredrik, assignor of one-half to H. S. Hanson, Seattle, Wash. Undercutting-saw guide. 1,476,815; Dec. 11.
Ham Boiler Corporation. (See Adelmann, Hans, assignor.)
Hammerl, Jacob, assignor to Packard Motor Car Company, Detroit, Mich. Windshield. 1,476,816; Dec. 11.
Hammerle, Alexander R., et al. (See Topp, Maurice J., assignor.)
Hands, Howard A., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Resistor-supporting means for electric resistance furnaces. 1,477,347; Dec. 11.
Hanley, William, East Orange, assignor to Ferguson Brothers Manufacturing Company, Hoboken, N. J. Smoker's set. 1,477,172; Dec. 11.
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pneumatic coal pick. 1,477,259; Dec. 11.
Hanson, Hjalmar S. (See Halvorsen, Fredrik, assignor.)
Hanson, Oscar W., Salina, Kans. Piston packing ring. 1,477,120; Dec. 11.
Harnapp, Dinkelspiel & Co. (See Dinkelspiel, Lawrence, assignor.)
Harpin, Louis J., Kankakee, Ill. Washboard clamp. 1,477,482; Dec. 11.
Harris Automatic Press Company, The. (See Harrold, Charles W., assignor.)
Harris, De Witt C., Pineland, Fla. Antifriction sliding bearing. 1,477,260; Dec. 11.
Harris, Homer H., Red Bank, N. J. Tire construction. 1,477,442; Dec. 11.
Harrison, Samuel M., Lexington, Ky. Artificial limb. 1,477,484; Dec. 11.
Harrold, Charles W., assignor to The Harris Automatic Press Company, Cleveland, Ohio. Chain delivery. 1,476,713; Dec. 11.
Harter, Charles, St. Louis, Mo. Brake beam. 1,476,752; Dec. 11.
Hart, Frederick A., assignor to Landers, Frary & Clark, New Britain, Conn. Hot-water bottle and the like. 1,477,261; Dec. 11.
Hart, Leo B., assignor of one-half to J. W. Tobin, Vinton, Iowa. Washing and drying machine. 1,477,443; Dec. 11.
Hartley, Bernard H., Red House, W. Va. Knife. 1,477,483; Dec. 11.
Harvey, Leo M. (See Taeubert, Edmund E., assignor.)
Haskelite Manufacturing Corporation. (See Drushel, William A., assignor.)
Haskell, William E., Brattleboro, Vt. Bottling machine. 1,477,485; Dec. 11.
Hatch, Charlie, E., Denver, Colo. Piston for engines. 1,476,751; Dec. 11.
Hatfield, George E., Dayton, Ohio. Device for handling electric lamps and the like. 1,476,817; Dec. 11.
Hanbert, Leo, Muskogee, Okla. Automobile steering mechanism. 1,476,886; Dec. 11.
Haughton Elevator & Machine Co., The. (See Thurston, Ernest B., assignor.)
Hayden, Arthur C., Brockton, Mass. Mat. 1,477,173; Dec. 11.
Hayes, Daniel J., Woodhaven, N. Y. Rice huller 1,477,262; Dec. 11.
Hayes-Fay Laboratories, Inc. (See Fay, R. D., and Shaw, assignors.)
Healy, Michael K., Yonkers, N. Y. Safety device for railways. 1,477,486; Dec. 11.
Heater, Philip H., Bucyrus, Ohio. Automobile tire tread. Des. 63,465; Dec. 11.
Hedly, Arthur H., assignor to The Ludlow Typograph Company, Chicago, Ill. Strip-forming mechanism. 1,476,967; Dec. 11.
Heerey, James C., Philadelphia, Pa. Curtain clasp. 1,476,887; Dec. 11.
Heinrich, Jules. (See Vandergaw, E. B., and Heinrich.)
Heinritz, Walter J., Norristown, Pa. Control of furnaces. 1,477,263; Dec. 11.
Heintz, James C., Lakewood, Ohio. Vulcanizer. 1,477,174; Dec. 11.
Hemen, Catherine M., Washington, D. C. Article for removing stains 1,477,220; Dec. 11.
Hemphill Company. (See Jones, Frank E., assignor.)
Henderson, Morris O., Story City, Iowa. Animal feeder. 1,477,121; Dec. 11.
Herle, Chester A., assignor to Bessteel Products Company, Inc., Rochester, N. Y. Wheel. 1,476,968; Dec. 11.
Herrman, Charles, assignor to Underwood Typewriter Company, New York, N. Y. System of typewriter notation. 1,476,818; Dec. 11.
Herron, Frank, Las Cruces, N. Mex. Automatic time-controlled draft apparatus. 1,476,753; Dec. 11.
Hess, Edward B., Manhattan Beach, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,477,175; Dec. 11.
Hetherington, John, and Sons Limited. (See Horridge, James, assignor.)

Hibbard, Henry D., Plainfield, N. J., assignor to Hibbard Process Corporation, New York, N. Y. Puddling. 1,477,348; Dec. 11.
Hibbard Process Corporation. (See Hibbard, Henry D., assignor.)
Hildebrandt, Paul G., Philadelphia, Pa., assignor to Black-Strap Fuel and Potash Products Company. Burner for utilizing molasses as a fuel. 1,476,714; Dec. 11.
Hill, Ernst V., Worcester, assignor, by mesne assignments, to E. A. W. Jefferies, W. A. Winn, N. Bjork, M. C. Nelson, and W. J. Denholm, trustees, Worcester, Mass. Coin selector. 1,477,221; Dec. 11.
Hindmarsh, Percy J., Lincoln, Nebr., and J. W. Menker, Evanston, Ill., assignors to The American Steel and Wire Company of New Jersey. Tubular fencepost. 1,477,349; Dec. 11.
Hipple, William H. J., jr., Philadelphia, Pa. Cigarette-extinguishing ash tray. 1,477,122; Dec. 11.
Hisert, John T., Chicago, Ill. Attachment for boats. 1,477,487; Dec. 11.
Hitchcock, William H., Gainesville, Ga. Pump. 1,476,888; Dec. 11.
Hleb, Peter, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Feeding mechanism for sewing machines. 1,477,264; Dec. 11.
Hobbs, Orace P., Royston, P. A. Flanigan, and H. T. Flanigan, Winder, Ga. Cotton duster. 1,476,889; Dec. 11.
Hoeschen, Henry A., assignor of one-half to Baker Ice Machine Company, Omaha, Nebr. Thermostat attachment. 1,477,350; Dec. 11.
Hoey, Samuel C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Composite plate and making the same. 1,477,351; Dec. 11.
Holland, Charles J., Patterson, Idaho. Knife sharpener. 1,477,488; Dec. 11.
Holmes, Henry S. (See Murray, T. E., jr., and Holmes.)
Holstein, William, Chicago, Ill. Sash lock. 1,477,265; Dec. 11.
Hooper, F. X., Company. (See Haase, J. L., and Metz, assignors.)
Hope, Thomas B., Chicago, Ill. Stock-record and sales-accounting system. 1,476,819; Dec. 11.
Hopkins, Charles E., deceased, Plainfield, N. J.; The Plainfield Trust Company, administrator. Controlling mechanism. 1,477,222; Dec. 11.
Hopkins, William L., Roslyn, assignor to American Lithographic Company, New York, N. Y. Display device. 1,477,123; Dec. 11.
Horlacher, Adam S. (See Story, Ralph F., assignor.)
Horridge, James, Bolton, England, assignor to John Hetherington and Sons Limited, Manchester, England. Machine for combing cotton and the like. 1,476,754; Dec. 11.
Hough, Clinton W., Boonville, N. Y. Miles-per-gallon register. 1,477,489; Dec. 11.
Hough, Clinton W., Boonville, N. Y. Miles-per-gallon instrument. 1,477,490; Dec. 11.
Houlehan, Arthur E., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparation of catalytic compounds and the product obtained thereby. 1,477,058; Dec. 11.
Howard, Harry A., Spokane, Wash. Sewer cleaner. 1,476,969; Dec. 11.
Howard, Henry, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Retort. 1,477,491; Dec. 11.
Hughes, David E., San Pedro, Calif., dedicated to the public by assignment. Dredge cutter. 1,477,352; Dec. 11.
Hultquist, Charles A., Los Angeles, Calif. Rock-drilling engine. 1,477,353; Dec. 11.
Hunt, Marshall E., Belle Plaine, Iowa. Treating and restoring used storage batteries. 1,477,354; Dec. 11.
Hurd, Benjamin W., assignor to Turbine Fuel Oil Burner Co., San Francisco, Calif. Oil burner. 1,476,970; Dec. 11.
Hurd, Benjamin W., San Francisco, Calif. Oil burner. 1,476,971; Dec. 11.
Hussmann, Harry L., assignor to Hussmann Refrigerator & Supply Company, St. Louis, Mo. Showcase refrigerator. 1,476,972; Dec. 11.
Hussmann, Harry L., assignor to Harry L. Hussmann Refrigerator & Supply Company, St. Louis, Mo. Showcase refrigerator. 1,476,973; Dec. 11.
Hussmann, Harry L., Refrigerator & Supply Company. (See Schulde, John, assignor.)
Hussmann Refrigerator & Supply Company. (See Hussmann, Harry L., assignor.)
Hutchison, Miller R., Orange, N. J. Insectproof portal. 1,477,496; Dec. 11.
Hutchison, Miller R., Orange, N. J. Insectproof portal construction. 1,477,497; Dec. 11.
Hutchison, Miller R., Orange, N. J., assignor to Hutchison Thrift Corporation, New York, N. Y. Self-service store. 1,477,492; Dec. 11.
Hutchison, Miller R., Orange, N. J., assignor to Hutchison Thrift Corporation, New York, N. Y. Gate and barrier control mechanism. 1,477,493; Dec. 11.
Hutchison, Miller R., Orange, N. J., assignor to Hutchison Thrift Corporation, New York, N. Y. Monorail carrier. 1,477,494; Dec. 11.
Hutchison, Miller R., Orange, N. J., assignor to Hutchison Thrift Corporation, New York, N. Y. Monorail system for stores. 1,477,495; Dec. 11.
Hutchison Thrift Corporation. (See Hutchison, Miller R., assignor.)
Hutt, Albert E., Philadelphia, Pa. Inside stairway and folding door for double-deck motor coaches. 1,476,974; Dec. 11.
Huttinger, Charles A., Lakewood, assignor to The Acme Artificial Silk Company, Cleveland, Ohio. Bobbin-winding mechanism and speed control therefor. 1,476,755; Dec. 11.
Hutton, Meritt, St. Benedict, Pa., assignor to R. Peale, New York, N. Y. Car-hauling mechanism. 1,477,124; Dec. 11.
Iddings, Carl, Westend, Calif. Recovering borax from saline liquors. 1,476,890; Dec. 11.
Ingersoll-Rand Company. (See Guiley, Henri A., assignor.)
Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
International Banding Machine Company. (See Malocsay, Francis X., assignor.)
International Derrick & Equipment Company, The. (See Bloss, Richard R., assignor.)
International Harvester Company. (See Buchanan, Judson, assignor.)
International Harvester Company. (See Cady, Sherman W., assignor.)
International Harvester Company. (See Dennis, Samuel K., assignor.)
International Harvester Company. (See Hagadone, Clinton A., assignor.)
International Harvester Company. (See Kowalsky, Andrew, assignor.)
International Harvester Company. (See Pearson, Charles, assignor.)
International Silver Company. (See Beck, Ernest T., assignor.)
Intertype Corporation. (See Freund, Herman R., assignor.)
Ivory, James W., Philadelphia, Pa. Dental matrix clamp. 1,476,975; Dec. 11.
Ivory James W., Philadelphia, Pa. Vibratory controlling device for dental and surgical instruments. 1,476,976; Dec. 11.
Jackson, Harvey F., Brooklyn, N. Y. Easel. 1,476,891; Dec. 11.
Jackson, Herbert P., Congleton, and T. Jackson, Patricroft, near Manchester, England. Amusement apparatus or machine. 1,477,498; Dec. 11.
Jackson, Ralph M., La Habra, Calif. Fumigating applicator. 1,477,125; Dec. 11.
Jackson, Simeon S., Hyde Park, Boston, assignor to The Stafford Company, Boston, Mass. Feeler mechanism for looms. 1,477,126; Dec. 11.
Jackson, Thomas. (See Jackson, Herbert P. and T.)
Jackson, William T. (See Moore, L. C., and Jackson.)
Jacobs, Evelyn L., Henryetta, Okla. Wrench. 1,477,355; Dec. 11.
Jacobson, Bror J., assignor to Martin-Copeland Company, Providence, R. I. Automatic chain-making machine. 1,476,977; Dec. 11.
Jaeger, Gebhard, Columbus, Ohio. Spout for concrete-mixing machines. 1,476,892; Dec. 11.
Jagger, Peter B., London, England. Apparatus for the production of fish products. 1,476,893; Dec. 11.
James, Marcus G., Norfolk, Va. Dispensing cabinet. Des. 63,466; Dec. 11.
Janes, Joseph, Somerville, Mass., assignor to G. C. Cox. Rochester, N. Y. Circuit breaker for phonographs. 1,477,356; Dec. 11.
Jefferies, E. A. W., et al., trustees. (See Hill, Ernst V., assignor.)
Jeffrey, Fraser, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. System of control. 1,476,978; Dec. 11.
Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)
Jenking, John O., Detroit, Mich. Broaching tool. 1,477,266; Dec. 11.
Jenkins, James C., Kayford, W. Va. Fire box. 1,477,059; Dec. 11.
Jensen, Frank H., Everett, Mass. Anklet and arch retainer. 1,477,357; Dec. 11.
Jez, Frank, and T. Duffy, Taylor, Tex. Tag holder. 1,476,979; Dec. 11.
Johannesen, Svend E., Pittsfield, Mass., assignor to General Electric Company. Stationary induction apparatus. 1,477,359; Dec. 11.
Johnson, Aron, Brooklyn, N. Y. Apparatus for packing comminuted material. 1,477,358; Dec. 11.
Johnson, Aron, Brooklyn, N. Y. Apparatus for packing comminuted material. 1,477,499; Dec. 11.
Johnson, Charles W., Harrisburg, Tex. Liquid-dispensing tank. 1,476,980; Dec. 11.
Johnson, Edward, East Orange, N. J., assignor to Meinecke & Company, New York, N. Y. Sputum-cup holder. 1,477,176; Dec. 11.
Johnson, Hilding J., Salt Lake City, Utah. Gun. 1,476,715; Dec. 11.
Johnson, John, Plymouth, Pa. Stop block. 1,477,500; Dec. 11.

Johnson, Victor S., assignor to The Mantle Lamp Company of America, Chicago, Ill. Cushioned vitreous stopper. 1,476,820; Dec. 11.
Jones, Frank E., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Web-holder cam mechanism for knitting machines. 1,477,060; Dec. 11.
Judd, Alfred A., assignor of one-half to C. F. Murtaugh, Iroquois Falls, Ontario, Canada. Paper-making machine. 1,476,894; Dec. 11.
Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. 1,477,360; Dec. 11.
Junkers, Hugo, Dessau, Germany. Device for producing river connections. 1,476,756; Dec. 11.
Jupp, Alfred E. (See Ohlson, C. G., and Jupp.)
Justrite Manufacturing Company. (See Frisbie, William J., assignor.)
Kalman, William, Chicago, Ill. Antiskid device. 1,476,716; Dec. 11.
Kandler, Edmund, and J. C. Sabel, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Mounted optical system. 1,476,717; Dec. 11.
Karitzky, John. (See Pleister, H. W., and Karitzky.)
Kasley, Alexander T., Essington, Pa., assignor to Westinghouse Electric and Manufacturing Company. Refrigerator. 1,477,127; Dec. 11.
Kauffman, Earl V., Cable, Ohio. Swiveled tractor plow-bitch. 1,477,061; Dec. 11.
Keenan, John F., assignor of one-half to L. B. Grasberger, Richmond, Va. Bag dispenser. 1,477,501; Dec. 11.
Kellogg, Carl A., Brooklyn, N. Y. Platen for printing machines. 1,477,128; Dec. 11.
Kelly, William J., Clinton, Iowa, assignor to The Seng Company, Chicago, Ill. Convertible furniture. 1,476,981; Dec. 11.
Kemp, Robert, Washington, D. C., assignor to Westinghouse Electric Manufacturing Company. Composite strut. 1,477,361; Dec. 11.
Kennedy, Palmer, Tacoma, Wash. Cutting device. 1,477,062; Dec. 11.
Kenyon, C., Company, Inc. (See Phelps, Harry E., assignor.)
Kerwin, Thomas J., Chicago, Ill., assignor to Edmunds & Jones Corporation. Adapter. 1,476,982; Dec. 11.
Kessler, Martin C., Detroit, Mich., assignor to The Kessler Motor Company, Denver, Colo. Gas engine. 1,477,362; Dec. 11.
Kessler, Martin C., Detroit, Mich., assignor to Kessler Motor Company, Denver, Colo. Explosive engine. 1,477,363; Dec. 11.
Kessler Motor Company, The. (See Kessler, Martin C., assignor.)
Kettler, Henry, Detroit, Mich. Recentering device. 1,477,364; Dec. 11.
Keystone Mfg. Co. (See Swartz, Edward M., assignor.)
Kiefer, Karl, Cincinnati, Ohio. Dispensing device. 1,477,365; Dec. 11.
Kieffer, Valley M., Buffalo, N. Y. Doll. Des. 63,467; Dec. 11.
Kinckiner, Joshua R., Pottstown, Pa. Water cooler. 1,476,757; Dec. 11.
Kind, Silas, Easton, Pa. Film-drying apparatus. 1,477,063; Dec. 11.
King, Peter J., Milwaukee, Wis. Apparatus for cutting pipes. 1,476,983; Dec. 11.
Killick, Frank R., assignor to Sprout, Waldron & Co., Muncy, Pa. Ear-corn crusher. 1,477,502; Dec. 11.
Killmer, Elmer G., Chicago, Ill. Vulcanizing machine. 1,477,267; Dec. 11.
Kirkpatrick, Clifford B., Wichita Falls, Tex. Advertising device. 1,476,984; Dec. 11.
Kleffel, Harrison E., Flushing, N. Y. Underfeed traveling grate. 1,477,268; Dec. 11.
Klein, Benjamin F., Cleveland, Ohio. Lighting fixture. 1,477,366; Dec. 11.
Kleinert, I. B., Rubber Company. (See Guinzburg, Victor, assignor.)
Kleinschmidt, Emil, Frankfort-on-the-Main, and C. Fohr, Miesbach, Oberbayern, Germany. Manufacture of cores for foundry work. 1,477,064; Dec. 11.
Knapp, Harold O. (See Riley, R. A., and Knapp.)
Knight, Charles W., Minneapolis, Minn. Automatic storm-sash operator. 1,476,821; Dec. 11.
Knopp, Otto A., Oakland, Calif., assignor to General Electric Company. Electric register. 1,477,367; Dec. 11.
Kohler Company. (See Brotz, Anton F., assignor.)
Kolberg, Gustaf L., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Pump valve. 1,476,985; Dec. 11.
Kottusch, Emil, Greenville, Miss. Piston ring. 1,477,368; Dec. 11.
Kowalsky, Andrew, Oak Park, Ill., assignor to International Harvester Company. Metallic wheel for implements and vehicles. 1,477,369; Dec. 11.
Krahn, Alvin W., Milwaukee, Wis. Wringer mechanism. 1,477,503; Dec. 11.
Krastinikoff, Anthony, New York, N. Y. Squib-lighting device. 1,477,129; Dec. 11.
Krey, August G. D., Wagner, S. Dak. Stock-watering fountain. 1,477,223; Dec. 11.
Kroff, Leonard D., assignor to First Trust and Savings Bank of Sterling, Sterling, Ill. Game board for baseball. 1,477,224; Dec. 11.
Kronenberger, Ferdinand, New York, N. Y. Paper lock. 1,476,822; Dec. 11.
Kuert, Ira J., Los Angeles, Calif. Adjustable and interchangeable form for hollow wall construction. 1,477,065; Dec. 11.
Kuever, Rudolph A., Iowa City, Iowa, assignor to Pepsodent Company, Chicago, Ill. Dentifrice. 1,477,177; Dec. 11.
Kühne, Hans, Leverkusen, and F. Bencker, Mulheim, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne, Germany. Manufacture of hyposulphites. 1,477,130; Dec. 11.
Kulik, Irving, Brooklyn, N. Y. X-ray mount. 1,477,131; Dec. 11.
Kushiro, Manzaburo, Pasadena, Calif. Yeast composition and making the same. 1,477,132; Dec. 11.
Kusterman, Walter W., Cincinnati, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Ventilating-duct construction for dynamo-electric machines. 1,476,986; Dec. 11.
Kutscher, Harry. (See Terhaar, Louis P., assignor.)
Kytlica, John F., Chicago, Ill. Rocker arm. 1,477,269; Dec. 11.
Laczko, Stephen, Toledo, Ohio. Cigarette-forming device. 1,477,370; Dec. 11.
La Ducer, Jerry J., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Milling machine. 1,477,178; Dec. 11.
La Ducer, Jerry J., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Tailstock. 1,477,179; Dec. 11.
Ladwig, Charles F., Huntsville, Mo. Seed-corn tipper. 1,477,180; Dec. 11.
La Hodny, William, Buffalo, N. Y. Bracket for supporting mirrors, glass plates, and the like. 1,476,758; Dec. 11.
Lake, Charles W., McPherson, Kans. Shock absorber. 1,477,504; Dec. 11.
Landers, Frary & Clark. (See Hart, Frederick A., assignor.)
Landers, Frary & Clark. (See Smith, Charles F., assignor.)
Lane, Joseph P., New York, N. Y. Gas stove. 1,477,505; Dec. 11.
Lange, Gottlieb, Dallas, Tex. Gas cock. 1,477,133; Dec. 11.
Langenbacher, Robert A., St. Charles, Mo. Hog holder. 1,476,895; Dec. 11.
Larabee, Frank, Chicago, Ill. Puzzle. 1,477,371; Dec. 11.
Laraway, William H., Grand Rapids, Mich. Vending machine. 1,477,134; Dec. 11.
Larsen, Andrew, Fox Lake, Ill. Bow-facing oar. 1,476,987; Dec. 11.
Larsen, Louis, East Orange, assignor, by mesne assignments, to Sundh Electric Company, Newark, N. J. Fluid-circulating system. 1,477,270; Dec. 11.
Larson, Nathaniel P., Eagle Bend, Minn. Safety neck yoke. 1,477,066; Dec. 11.
Lash, Horace W., San Francisco, Calif. Metal bloom and making same. 1,477,135; Dec. 11.
Latta, William W., assignor of one-third to E. Barchardt, one-third to P. W. Wirth, and one-third to Latta & Manders Co., Minneapolis, Minn. Carbonizing machine. 1,476,988; Dec. 11.
Latta & Manders Co., et al. (See Latta, William W., assignor.)
Laurie, Alexander, Des Moines, Iowa. Scoop attachment for traction engines. 1,477,136; Dec. 11.
Lautz, Frederick C., Vauxhall, N. J., assignor to David Belais, Inc., New York, N. Y. Finger ring or similar article. Des. 63,468; Dec. 11.
Lautz, Frederick C., Vauxhall, N. J., assignor to David Belais, Inc., New York, N. Y. Finger ring or similar article. Des. 63,469; Dec. 11.
Lautz, Frederick C., Vauxhall, N. J., assignor to David Belais, Inc., New York, N. Y. Finger ring or similar article. Des. 63,470; Dec. 11.
Lautz, Frederick C., Vauxhall, N. J., assignor to David Belais, Inc., New York, N. Y. Finger ring or similar article. Des. 63,471; Dec. 11.
Lautz, Frederick C., Vauxhall, N. J., assignor to David Belais, Inc., New York, N. Y. Finger ring or similar article. Des. 63,472; Dec. 11.
Lautz, Frederick C., Vauxhall, N. J., assignor to David Belais, Inc., New York, N. Y. Finger ring or similar article. Des. 63,473; Dec. 11.
Lautz, Frederick C., Vauxhall, N. J., assignor to David Belais, Inc., New York, N. Y. Finger ring or similar article. Des. 63,474; Dec. 11.
Lawler, Joseph A., Paterson, N. J. Swimming device. 1,477,506; Dec. 11.
Lawson, Jasper C., Los Angeles, Calif. Bumper for vehicles. 1,477,067; Dec. 11.
Lazear, Gladys M., Kew Gardens, N. Y. Child's car. 1,477,444; Dec. 11.
Lea, Charles H., et al. (See Westman, Almar E., assignor.)
Leavitt Mfg. Company. (See Christopher, Daniel L., assignor.)
Leblond, R. K., Machine Tool Company, The. (See Groene, William F., assignor.)
Lebwohl, Benjamin, assignor of one-half to B. Mindich, New York, N. Y. Combined cigar or cigarette and match box. 1,477,373; Dec. 11.

Lee, Charles P., St. Clairsville, Ohio. Gang plow. 1,476,823; Dec. 11.
Leech, Granville. (See Leech, Stanley and G.)
Leech, Stanley and G., Detroit, Mich. Wringer. 1,476,759; Dec. 11.
Leeds & Northrup Company. (See Leeds, Morris E., assignor.)
Leeds, Morris E., assignor to Leeds & Northrup Company, Philadelphia, Pa. Speed-control apparatus. 1,476,824; Dec. 11.
Leitch, Lucy B., administratrix. (See Leitch, Meredith.)
Leitch, Meredith, deceased, Poughkeepsie, N. Y., by L. B. Leitch, administratrix, Montgomery, Ala., assignor to The De Laval Separator Company, New York, N. Y. Driving means for centrifugal bowls. 1,476,760; Dec. 11.
Leonard, Frederick C., assignor to Leonard-Rooke Company, Providence, R. I. Automatic controlling valve. 1,476,718; Dec. 11.
Leonard, Frederick C., assignor to Leonard-Rooke Company, Providence, R. I. Thermostatic valve. 1,476,719; Dec. 11.
Leonard-Rooke Company. (See Leonard, Frederick C., assignor.)
Leopold, George O. (See Fegley, T. J., and Leopold.)
Leslie, William A., Asquith, Saskatchewan, Canada. Implement pole. 1,476,720; Dec. 11.
Letsch, Eugene, Lynbrook, assignor to Pierce, Butler & Pierce Mfg. Corp., Syracuse, N. Y. Fluid-pressure gauge. 1,476,896; Dec. 11.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Loading apparatus for mining. 1,476,897; Dec. 11.
Levy, Henri G., San Francisco, Calif. Lamp. Des. 63,475; Dec. 11.
Lewis, Frank M., Chicago, Ill. Differential mechanism. 1,477,137; Dec. 11.
Lewis, Ransome T., Elmira, N. Y. Adjustable sign. 1,476,898; Dec. 11.
Leyland, Percy N., Glen Ridge, N. J. Plate or similar article. Des. 63,476; Dec. 11.
Liss, August S., Chicago, Ill. Fly exterminator. 1,477,273; Dec. 11.
Little, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for producing a sooty vapor in electric furnaces. 1,477,372; Dec. 11.
Lochner, John G., Brooklyn, N. Y. Combined chair and couch. 1,477,507; Dec. 11.
Lockhart, Harold J., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Attachment for well-rigging machines. 1,476,899; Dec. 11.
Lodding, Frederick W. (See Vedder, J. W., and Lodding.)
Lohmann, Hugo, Berlin-Johannisthal, Germany. Process and device for making sharply-defined castings. 1,477,508; Dec. 11.
Loock, Robert J., Baltimore, Md. Antirattler for lever controls. 1,477,138; Dec. 11.
Lowenstein, Fritz, deceased, Brooklyn; J. C. Wait, administrator, assignor to W. Dubilier, New York, N. Y. Multifrequency generator. 1,477,271; Dec. 11.
Lowry, Aden W., Longton, Kans. Lock nut. 1,477,509; Dec. 11.
Lucas, Anthony F. G., Washington, D. C., and J. F. Alexander, Philadelphia, Pa. Bottle cap. 1,477,139; Dec. 11.
Ludlow Typograph Company, The. (See Hedly, Arthur H., assignor.)
Lykens, James T., assignor of one-half to L. R. Via, Huntington, W. Va. Explosive-engine igniter. 1,476,900; Dec. 11.
Lyon, George A., Philadelphia, Pa. Automobile buffer. 1,476,825; Dec. 11.
Lyon Metallic Manufacturing Company. (See O'Connor, John B., assignor.)
Lyon, Nikolaus. (See Tauern, O. D., and Lyon.)
Lyons, Alpheus F. S., Neenah, Wis. Boot and shoe. 1,477,140; Dec. 11.
McCann, Michael, Glenmorris, assignor to Frederick Osann Company, New York, N. Y. Work clamp for buttonhole-sewing machines. 1,477,142; Dec. 11.
McCarty, Eugene J., Clinton, Mass. Boiler-tube-cleaning machine. 1,476,901; Dec. 11.
McCausland, John W., assignor to Safford Sales Company, Chicago, Ill. Bumper. 1,477,141; Dec. 11.
McClintock, Lewis G., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Welding process and product. 1,477,143; Dec. 11.
McCloskey, Alfred C., assignor to F. W. Bacon, Philadelphia, Pa. Combined bumper and fender for motor vehicles. 1,477,275; Dec. 11.
McCollough, William A., Webster City, Iowa. Invalid's bed. 1,476,902; Dec. 11.
McConnell-Browning Engineering Company. (See McConnell, Harry R., assignor.)
McConnell, Harry R., assignor to The McConnell-Browning Engineering Company, Richmond, Va. Chuck. 1,476,903; Dec. 11.
McGann, William H., Minneapolis, Minn. Grain-door-forcing device. Re15,729; Dec. 11.
McIntyre, Frank P., Philadelphia, Pa. Manufacture of building blocks and similar molded articles. 1,477,276; Dec. 11.
McKee, Philip L., Chicago, Ill. Reenforced rafter for greenhouses. 1,476,990; Dec. 11.
McKee, Ralph H., New York, N. Y. Electrolytic cell. 1,477,512; Dec. 11.
McKiernan-Terry Drill Company. (See Riker, Malcolm D., assignor.)
McKillican, Donald R., assignor to Mechanical Mixers Corporation, New York, N. Y. Shrouded agitator. 1,477,201; Dec. 11.
McKillican, Donald R., assignor to Mechanical Mixers Corporation, New York, N. Y. Drink mixer. 1,477,202; Dec. 11.
McKillican, Donald R., assignor to Mechanical Mixers Corporation, New York, N. Y. Mixing. 1,477,203; Dec. 11.
McMath, Jennie R., San Diego, Calif. Clothespin carrier. 1,476,991; Dec. 11.
McNelli, Robert C., Jersey City, N. J. Combined sled and coaster. 1,477,513; Dec. 11.
McQuinn, Bartholomew Y., Cameron, Mo. Attachment for vehicles. 1,476,993; Dec. 11.
McVicker, Duncan R., St. Louis, Mo. Repeating attachment for talking machines. 1,476,992; Dec. 11.
MacLachlan, John M., Milwaukee, Wis. Drying grapes and other fruit. 1,476,761; Dec. 11.
Macklanburg, Louis A., Oklahoma, Okla. Weather strip. 1,477,225; Dec. 11.
Magann, Douglas P., assignor of one-half to D. E. Argenbright, Roanoke, Va. Dishwashing machine. 1,477,068; Dec. 11.
Mah-Jong Company of China, The. (See Hager, Albert R., assignor.)
Mahnoke, Hans, Colorado Springs, Colo., assignor to The Wood Products Company. Extension table. 1,477,069; Dec. 11.
Majestic Company, The. (See Redrup, William D., assignor.)
Mallory, Aaron L., Atlanta, Ga. Corn eradicator. 1,477,274; Dec. 11.
Mallory Hat Company. (See Reynolds, Ralph K., assignor.)
Malmquist, Adolph K., assignor to Deming & Gould Company, South Bellingham, Wash. Testing instrument. 1,476,904; Dec. 11.
Malocsay, Francis X., assignor to International Banding Machine Company, New York, N. Y. Cigar band. 1,477,144; Dec. 11.
Mantle Lamp Company of America, The. (See Johnson, Victor S., assignor.)
Mardus, Frederick H., Brooklyn, N. Y. Water shoe. 1,476,905; Dec. 11.
Marone, Alfredo, Santa Vittoria d'Alba, Italy. Liquid-level indicator. 1,477,145; Dec. 11.
Marshall, Oscar S., Springfield, Vt. Dividing head. 1,477,374; Dec. 11.
Marteau, Ralph L., and G. A. Schroeter, Brooklyn, N. Y. Adjustable metatarsal shoe shank. 1,477,146; Dec. 11.
Martin, Albert D. (See Tabor, William B., assignor.)
Martin, Christian H., Atlanta, Ga. Orthopedic appliance. 1,477,070; Dec. 11.
Martin-Copeland Company (See Jacobson, Bror J., assignor.)
Martin, David, Watson, Ill. Skinning knife. 1,477,510; Dec. 11.
Martin, De Loss K., Orange, N. J., assignor to American Telephone and Telegraph Company. Frequency-control system 1,476,721. Dec. 11.
Martin, Frederick H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Overboot. 1,476,826; Dec. 11.
Martin, Frederick W., Brooklyn, N. Y., assignor to Franklin Railway Supply Company. Furnace door. 1,476,907; Dec. 11.
Martin, James W., jr., Clendenin, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Making carbonblack. 1,477,511; Dec. 11.
Martin, Sidney O., St. Louis, Mo. Signal. Des. 63,477; Dec. 11.
Massey, George B., assignor to Randolph-Perkins Co., Chicago, Ill. Brake and control system for swinging booms. 1,476,989; Dec. 11.
Massie, Alonzo A., Philadelphia, Pa. Barber's cabinet. 1,476,908; Dec. 11.
Mather, George L., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. Des. 63,478; Dec. 11.
Mauborgne, Joseph O. (See Cohen, L. and Mauborgne.)
Maudslay, Reginald W., Coventry, England. Electrically-operated warning horn. 1,477,375; Dec. 11.
Meaker, John W. (See Hindmarsh, P. J., and Meaker.)
Mechanical Mixers Corporation. (See McKillican, Donald R., assignor.)
Meguiar, Charles W., Sonora, Ky. Measuring container for dental alloys or the like. 1,477,226; Dec. 11.
Meinecke & Company. (See Johnson, Edward, assignor.)
Meister, Louis P., Troy, Mo. Automatic drip faucet. 1,477,227; Dec. 11.
Meng, John D., Rochester, N. Y. Vending machine. 1,476,827; Dec. 11.
Mettler, Lee B. (See Nordensson, C. O., and Mettler.)
Metz, Ellwood A. (See Haase, J. I., and Metz.)
Metzger, Maurice, Montreal, Quebec, Canada. Film-splicing machine. Re15,730; Dec. 11.

Meyer, Friedrich W., Madison, and A. Simon, assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Apparatus for measuring the flow of fluids. 1,476,762; Dec. 11.
Meyer, Hans J., and C. B. Watson, Minneapolis, Minn. Fuel commingler and burner. 1,476,994; Dec. 11.
Michigan Steel Tube Products Company (See Berg, Simon and R. G., assignors.)
Milker, Herbert P., assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Thermostatic controlling means for internal-combustion engines. 1,477,277; Dec. 11.
Miller, Carroll E., Jr., San Francisco, Calif. Ring. Des. 63,479; Dec. 11.
Miller, Charles E., Chicago, Ill. Operating mechanism for tank-car outlet valves. 1,476,722; Dec. 11.
Miller, Edward & Company. (See Wolter, Herman H., assignor.)
Miller, Ira H. (See Stockel, Gerhard, assignor.)
Miller, James P., Minden, La. Ice-cream freezer. 1,477,515; Dec. 11.
Miller, John A., Homewood, Ill. Truss. 1,476,995; Dec. 11.
Miller, Robert L., assignor to Otis Automatic Train Control, Inc., Spokane, Wash. Valve mechanism for automatic train-control apparatus. 1,477,514; Dec. 11.
Miller, Thomas W., Ashland, Ohio. Golf ball. 1,477,516; Dec. 11.
Millman, Herman. (See Cubbage, A. B., and Millman.)
Mindich, Benjamin. (See Lebwohl, Benjamin, assignor.)
Mitton, Ernest R., Port Elgin, New Brunswick, Canada. Helicopter. 1,477,147; Dec. 11.
Mliczek, Franciszek, assignor of one-half to J. Bemben, Cleveland, Ohio. Demountable shade and curtain fixture. 1,477,272; Dec. 11.
Moen, Karl A., Vik, near Grimstad, Norway. Boat. 1,476,763; Dec. 11.
Mojonnier Bros Co. (See Mojonnier, J. J., and Phillips, assignors.)
Mojonnier, Julius J., and H. R. Phillips, Oak Park, assignors to Mojonnier Bros. Co., Chicago, Ill. Agitator. 1,476,996; Dec. 11.
Monrath, Gustav, New York, N. Y., assignor, by mesne assignments, to The Barber Asphalt Paving Company, Philadelphia, Pa. Annealing mastic pipe. 1,476,828; Dec. 11.
Monti, Anello, Meriden, Conn. Lock. 1,477,181; Dec. 11.
Moore, Landon C., and W. T. Jackson, Dallas, Tex.; said Jackson assignor to said Moore. Removing paint, enamel, etc. 1,476,909; Dec. 11.
Morgan, Bernard, Keene, N. H. Hose clamp. 1,477,071; Dec. 11.
Morgan & Wright. (See Nesmith, R. H., assignor.)
Morhoff, Edward W., and C. W. Dobelin, Madison, Wis. Conductor hook. 1,476,764; Dec. 11.
Morrison, Lewis E., Newark, N. J., assignor to himself and S. H. Plum, 2d, Madison, N. J. Printing machine. 1,476,829; Dec. 11.
Motter, William N., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Speed-control system. 1,476,997; Dec. 11.
Moyer, Joseph B., New Britain, Conn. Strip-coiling machine. 1,477,228; Dec. 11.
Moyle, Edward H., Los Angeles, Calif. Grinding mill for rocks, ores, and like material. 1,477,376; Dec. 11.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Lubricator for tailstock centers. 1,477,182; Dec. 11.
Murdock, Henry D., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. 1,477,377; Dec. 11.
Murray, Richard, New York, N. Y. Building block. 1,477,072; Dec. 11.
Murray, Thomas E., jr., Brooklyn, and H. S. Holmes, New York; said Holmes assignor of his entire right to T. E. Murray, jr., Brooklyn, N. Y. Die-casting machine. 1,476,795; Dec. 11.
Murtaugh, Charles F. (See Judd, Alfred A., assignor.)
Nagler, Forrest Wanwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic machine. 1,476,998; Dec. 11.
Nathan Manufacturing Company. (See Wagner, H., and Strube, assignors.)
National Malleable Castings Company, The. (See Bazeley, Arthur J., assignor.)
National Pneumatic Company. (See Forman, Paris R., assignor.)
National Pneumatic Company. (See Gottschalk, Albert, assignor.)
National Screw and Manufacturing Company, The. (See Bartmess, Meigs W., assignor.)
Naugle, Charles M., Wilkes-Barre, Pa. Cake pan. 1,476,910; Dec. 11.
Nelson, Arvid, Chicago, Ill. Rotary switch. 1,476,911; Dec. 11.
Nelson, M. Clifton, et al., trustees. (See Hill, Ernst V., assignor.)
Ner-A-Car Corporation. (See Smith, Joseph A., assignor.)
Nesbit, Clair A., Fairburn, S. Dak. Concrete tie. 1,476,912; Dec. 11.
Nesmith, Ralph H., assignor to Morgan & Wright, Detroit, Mich. Tire. Des. 63,480; Dec. 11.
Newberry, Andrew W., et al. (See Newberry, Spencer B., assignor.)
Newberry, Andrew W., executor. (See Newberry, Spencer B.)
Newberry, Arthur C., et al. (See Newberry, Spencer B., assignor.)
Newberry, Spencer B., deceased, Cleveland, Ohio; A. W. Newberry, executor, assignor of one-half to A. W. Newberry and one-half to A. C. Newberry. Apparatus for burning cement material. 1,477,517; Dec. 11.
Newell, Charles E., Cedar Rapids, Iowa. Loading spout. 1,476,830; Dec. 11.
Newhall, Henry B. (See Pleister, H. W., and Karlitzky, assignors.)
Newhall, Henry B. (See Pleister, Henry W., assignor.)
Newman, Benjamin, New York, N. Y. Deodorizing apparatus. 1,477,183; Dec. 11.
New Way Laboratories Company. (See Faust, John F., assignor.)
New York Belting and Packing Company. (See Cobb, Henry Z., assignor.)
New York Calculating Machine Company. (See De Simone, Michele G., assignor.)
Niles-Bement-Pond Company. (See Hagman, William J., assignor.)
Niles-Bement-Pond Company. (See Randolph, Clifford F., assignor.)
Noël, Cadet, Levallois-Perret, France. Resilient tire for vehicle wheels. 1,477,518; Dec. 11.
Nordensson, Carl O., Pittsburgh, Pa., and L. B. Mettler, Oklahoma, Okla., assignors to Duquesne Burner Service Co., Pittsburgh, Pa. Combination gas and oil burner. 1,476,913; Dec. 11.
North, Benjamin A., and L. C. Rishel, Los Angeles, Calif. Theft-signal door knob. 1,476,842; Dec. 11.
North Bro's M'f'g Co. (See Fegley, T. J., and Leopold, assignors.)
North East Electric Company. (See Sullivan, Raymond H., assignor.)
Northrup, George R., Laramie, Wyo. Bracket for mounting pulleys. 1,477,229; Dec. 11.
Norwalk Tire & Rubber Company. (See Schmidt, Henry G., assignor.)
N. V. Maatschappij tot Exploitatie van Bartmann Patenten. (See Bartmann, Ludwig, assignor.)
Oakley, Sterling A., assignor of one-half to I. F. Warner, Boise, Idaho. Electrically-controlled governor for water wheels. 1,476,914; Dec. 11.
O'Brien, Charles. (See Boal, A. R., and O'Brien.)
O'Connor, John B., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill. Cabinet drawer. 1,477,278; Dec. 11.
O'Donnell, Richard P., Chicago, Ill. Arch support. 1,476,915; Dec. 11.
Oelkers, Henry A., Mazeppa, Minn. Bridle bit. 1,476,999; Dec. 11.
Ohio Automatic Sprinkler Company. (See Abbott, Albert L., assignor.)
Ohlson, Carl G., and A. E. Jupp, Youngstown, Ohio. Deformed reenforcing bar for concrete. 1,477,378; Dec. 11.
Oliver Chilled Plow Works. (See Dewend, William D., assignor.)
Olney, George W., Minneapolis, Minn. Manufacturing one-piece packing rings. 1,477,379; Dec. 11.
Olofson, Charles, et al. (See Westman, Almar E., assignor.)
Olofson, Gustaf A., et al. (See Westman, Almar E., assignor.)
Olsson, Ored, Ord, Nebr. Lubricating device for windmills. 1,477,519; Dec. 11.
Ormsby, Otis W., Hill City, S. Dak. Wrench. 1,477,184; Dec. 11.
Orthmann, Alfred, Barmen, Germany, assignor to Barthels Manufacturing Co., Glendale, N. Y. Machine for guiding bobbins in running paths. 1,477,380; Dec. 11.
Osann, Frederick Company. (See McCann, Michael, assignor.)
Osborn Manufacturing Company. (See Carman, Edwin S., assignor.)
Otis Automatic Train Control, Inc. (See Miller, Robert L., assignor.)
O'Toole, Theresa M. (See Degheri, Theresa M.)
Overholt, Albert L., Minneapolis, Minn., assignor, by mesne assignments, to Steiner Sales Company, Salt Lake City, Utah. Lock device for towel cabinets. 1,477,000; Dec. 11.
Packard Motor Car Company. (See Bogardus, Leonard R., assignor.)
Packard Motor Car Company. (See Hammeri, Jacob, assignor.)
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Pagel, William F., Sycamore, Ill. Plumber's torch. 1,476,723; Dec. 11.
Page, Samuel H., Stratford, Conn. Lace. Des. 63,484; Dec. 11.
Page, Samuel H., Stratford, Conn. Lace. Des. 63,485; Dec. 11.
Page, Samuel H., Stratford, Conn. Lace. Des. 63,486; Dec. 11.
Page, Samuel H., Stratford, Conn. Lace. Des. 63,487; Dec. 11.
Page, Samuel H., Stratford, Conn., assignor to The American Fabrics Company. Lace. Des. 63,481; Dec. 11.
Page, Samuel H., Stratford, Conn., assignor to The American Fabrics Company. Lace. Des. 63,482; Dec. 11.

Page, Samuel H., Stratford, Conn., assignor to The American Fabrics Company. Lace. Des. 63,483; Dec. 11.
Paine, Lewis C., Charleston, S. C. Bag-handling implement. 1,477,073; Dec. 11.
Palm, Victor H., Butler, Pa. Pump valve. 1,477,381; Dec. 11.
Palmolive Co. (See Schwantes, Julius A., assignor.)
Panian, Martin, Eveleth, Minn. Securing means for heels. 1,477,230; Dec. 11.
Paraffine Companies, Inc., The. (See Post, Cornelia M., assignor.)
Parker Collapsible Rim Corporation. (See Parker, Harry J., assignor.)
Parker, Harry J., assignor to Parker Collapsible Rim Corporation, Chicago, Ill. Collapsible rim for tires. 1,476,916; Dec. 11.
Parker, Thomas, Toronto, Ontario, Canada. Auto steering wheel. 1,477,001; Dec. 11.
Parkersburg Rig & Reel Company, The. (See Lockhart, Harold J., assignor.)
Parkhill, John, Rochester, Minn. Roof-framing square. 1,477,002; Dec. 11.
Parks-Cramer Company. (See Comfort, Edward W., assignor.)
Parks-Cramer Company. (See Simon, Herman F., assignor.)
Parsons, Carl B., assignor to Parsons Manufacturing Company, Detroit, Mich. Hinge. 1,477,148; Dec. 11.
Parsons Manufacturing Company. (See Parsons, Carl B., assignor.)
Partin, Lucile J., Lagrange, Ga. Doll, statuette, or article of similar nature. Des. 63,488; Dec. 11.
Patitz, Johann F. M., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Rotary tiller. 1,476,917; Dec. 11.
Pawling and Harnischfeger Company. (See Young, W. A., and Brill, assignors.)
Peale, Rembrandt. (See Hutton, Meritt, assignor.)
Pearson, August E., Toronto, Ontario, Canada. Boring machine. 1,476,724. Dec. 11.
Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Hayrake. 1,477,382; Dec. 11.
Pease, George W., Pittsfield, Mass. Garment. 1,476,831; Dec. 11.
Peck, Jacob G., Portland, Oreg. Ice-cream-freezing apparatus. 1,477,279; Dec. 11.
Peck, Jesse L., Pittston, Pa. Combined number plate and letter chute. 1,477,074; Dec. 11.
Peck, Willis T., Fort Des Moines, Iowa. Merry-go-round. 1,476,832; Dec. 11.
Peelle, Willis J., Chicago, Ill. Screw cap. 1,476,918; Dec. 11.
Peitz, Martin J. (See Stamm, M., Tucker, and Peitz.)
Penn, Benjaman C., Greenville, Miss. Sewing-machine attachment. 1,477,003; Dec. 11.
Peoples Natural Gas Company, The. (See Anderson, James B., assignor.)
Pepsodent Company. (See Kuever, Rudolph A., assignor.)
Petritsch, John F., Reno, Nev. Auxiliary pistol stock. 1,477,445; Dec. 11.
Petroleum Heat and Power Company. (See Brown, Francis H., assignor.)
Pfanstiehl, Carl, Highland Park, Ill., assignor to Pfanstiehl Radio Service Co. Dial adjuster. 1,477,185; Dec. 11.
Pfanstiehl Radio Service Co. (See Pfanstiehl, Carl, assignor.)
Pfister, Henry C., Great Falls, Mont. Arch support. 1,477,383; Dec. 11.
Phelps, Harry E., assignor to C. Kenyon Company, Inc., Brooklyn, N. Y. Tire tread. Des. 63,489. Dec. 11.
Phillips, Harley R. (See Mojonnier, J. J., and Phillips.)
Phillips, Harry C., Mount Vernon, N. Y. Operating and locking means for doors and windows. 1,477,075; Dec. 11.
P. & M. Company, The. (See De Busk, William H., assignor.)
Pneumatic Scale Corporation. (See Strout, Ralph C., assignor.)
Pieper, Herman B., Davenport, Iowa. Dynamometer. 1,476,919; Dec. 11.
Pierce, Butler & Pierce Mfg. Corp. (See Letsch, Eugene, assignor.)
Pioneer Production Company. (See Yeomans, Lucien I., assignor.)
Piron Coal Distillation Systems. (See Piron, Emil, assignor.)
Piron, Emil, assignor to Piron Coal Distillation Systems, Inc., New York, N. Y. Separating organic acids from aqueous solutions thereof. 1,477,076; Dec. 11.
Pittman, Vincent V., Selma, Calif. Building section. 1,477,520; Dec. 11.
Pittsburgh Transformer Company. (See McClintock, Lewis G., assignor.)
Pizzino, Antonino, Massillon, Ohio. Rest plate and fulcrum for grinding machines. 1,477,151; Dec. 11.
Plainfield Trust Company, The, administrator. (See Hopkins, Charles E.)
Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall. Nail expansion. 1,476,833; Dec. 11.
Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall. Nail expansion. 1,476,834; Dec. 11.
Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall. Nail expansion. 1,476,835; Dec. 11.
Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall. Nail-expansion method. 1,476,836; Dec. 11.
Pleister, Henry W., Westfield, and J. Karlitzky, Garwood, assignors to H. B. Newhall, Plainfield, N. J. Nail fastener. 1,476,837; Dec. 11.
Plum, S. Haines, 2d. (See Morrison, Lewis E., assignor.)
Pollard-Alling Manufacturing Company. (See De Minico, Frank, assignor.)
Poole, Arthur F., Pelham Manor, assignor to Remington Accounting Machine Corporation, New York, N. Y. Calculating machine. 1,477,077; Dec. 11.
Pope, Harry C., and J. H. Fieldhouse, Los Angeles, Calif. Igniter for gaseous-fuel burners. 1,476,725; Dec. 11.
Pordes, Dore, assignor to Fa. P. S.-Vergaser- und Apparatebau-Aktiengesellschaft, Vienna, Austria. Carburetor for internal-combustion engines. 1,477,280; Dec. 11.
Post, Cornelia M., Philadelphia, Pa., assignor to The Paraffine Companies, Inc., San Francisco, Calif. Linoleum, oilcloth, or floor covering. Des. 63,490; Dec. 11.
Post, Cornelia M., Philadelphia, Pa., assignor to The Paraffine Companies, Inc., San Francisco, Calif. Linoleum, oilcloth, or floor covering. Des. 63,491; Dec. 11.
Post, Cornelia M., Philadelphia, Pa., assignor to The Paraffine Companies, Inc., San Francisco, Calif. Linoleum, oilcloth, or floor covering. Des. 63,492; Dec. 11.
Post, Cornelia M., Philadelphia, Pa., assignor to The Paraffine Companies, Inc., San Francisco, Calif. Linoleum, oilcloth, or floor covering. Des. 63,493; Dec. 11.
Pouch, Oscar G., New York, N. Y. Control panel for heating equipment. 1,477,149; Dec. 11.
Powers, W. F., Company, The. (See Carter, Willis M., assignor.)
Pratt, Allen H., Philomath, Oreg. Bookrest. 1,476,838; Dec. 11.
Pratt, Benjamin H., Milwaukee, assignor to The Badger Rubber Works, Cudahy, Wis. Tire. Des. 63,494; Dec. 11.
Pratt & Whitney Company. (See Blood, Bryant H., assignor.)
Pratt & Whitney Company. (See La Ducer, Jerry J., assignor.)
Pratt & Whitney Company. (See Müller, Friederich, assignor.)
Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,476,726; Dec. 11.
Public, The. (See Hughes, David E., assignor.)
Pugh, Clifford J., Salem, Oreg. Cooker. 1,476,839; Dec. 11.
Quigg, James S., Dewey, Okla. Oil-well packer. 1,476,727; Dec. 11.
Quigley, John T., assignor to Costmeter Company, Boston, Mass. Filing and indexing equipment. 1,476,920; Dec. 11.
Raettig, Bruno, Hoffnungsthal, Germany. Contact spring. 1,477,527; Dec. 11.
Rammel, Thomas H., Plainville, Mass., assignor to Whiting & Davis Company. Bag frame and clasp. 1,477,281; Dec. 11.
Randolph, Clifford F., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Lathe-tool carriage. 1,477,186; Dec. 11.
Randolph-Perkins Co. (See Massey, George B., assignor.)
Ranney, Willet B., assignor to Wm. Wrigley Jr. Company, Chicago, Ill. Polishing machine for coated confections. 1,476,840; Dec. 11.
Raymond, Harry, East Syracuse, N. Y. Key lock. 1,476,841; Dec. 11.
Rayne, John F., New York, N. Y. Surgical appliance. 1,477,187; Dec. 11.
Redrup, William D., assignor to The Majestic Company, Huntington, Ind. Collapsible register. 1,476,921; Dec. 11.
Regina Corporation, The. (See Coates, Robert, assignor.)
Reid, Thomas A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric resistance furnace. 1,477,384; Dec. 11.
Reid, Thomas A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,477,385; Dec. 11.
Reisiger, John J., Covington, Ky. Safety attachment for mouse and rat traps. 1,477,446; Dec. 11.
Remington Accounting Machine Corporation. (See Poole, Arthur F., assignor.)
Rettinger, William N., Bourbon, Ind. Wringer-operating mechanism. 1,477,150; Dec. 11.
Reynolds, Gratton S., Tarentum, Pa. Power-transmitting mechanism. 1,476,766; Dec. 11.
Reynolds, Ralph K., assignor to Mallory Hat Company, Danbury, Conn. Hat marking. 1,477,282; Dec. 11.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Spooler. 1,477,525; Dec. 11.
Rhodes, Walton J., Los Angeles, Calif. Auxiliary brake system. 1,477,004; Dec. 11.
Rianda, Stephen, Watsonville, Calif. Sanitary cuspidor. 1,477,005; Dec. 11.

Rice, Barton & Fales Machine & Iron Co. (See Vedder, J. W., and Lolding, assignors.)
Richards, Edgar D., Monroe, La. Eccentric. 1,477,521. Dec. 11.
Ridgway, Herbert N., Winthrop, Mass. Amusement device. 1,476,922; Dec. 11.
Riker, Malcolm D., Dover, N. J., assignor to McKiernan-Terry Drill Company, New York, N. Y. Pile-pulling apparatus. 1,477,283; Dec. 11.
Riley, Robert A., and H. O. Knapp, Pottsville, Pa. Jig mechanism. 1,477,006; Dec. 11.
Rimailho, Emile, Paris, France. Cannon with multiple powder chambers. 1,477,078; Dec. 11.
Ringer, Soren, Chicago, Ill. File holder. 1,477,284; Dec. 11.
Rippner, Harry A., assignor to Beacon Motor Lamp Manufacturing Company, Cleveland, Ohio. Combined stop light and tail lamp. 1,477,285; Dec. 11.
Rishel, Luther C. (See North, B. A., and Rishel.)
Ritchie, Thomas, Oskaloosa, Iowa. Stock waterer. 1,477,447; Dec. 11.
Roberts, John A., Rolfe, Iowa. Geared wrench. 1,477,448; Dec. 11.
Roberts, Montague H., Englewood, N. J., assignor to Franklin Railway Supply Company. Apparatus for operating booster-supplemented locomotives. 1,476,729; Dec. 11.
Robertson, Frederick C., Spokane, Wash., and P. P. Rooney, New York, assignors, by mesne assignments, to Rubber-Metal Horse Footwear, Inc., Buffalo, N. Y. Horseshoe. 1,477,007; Dec. 11.
Robertson, Harry M., Rockville, Md., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Tunnel kiln. 1,477,152; Dec. 11.
Robertson, William W., Worcester Mass., assignor to Crompton & Knowles Loom Works. Shuttle box for pile-fabric looms. 1,476,843; Dec. 11.
Roby, Luther E., Peoria, Ill. Power-operated draft lifting device. 1,476,728; Dec. 11.
Rodman, Edward F., Kansas City, Mo. Propelling device for swimmers. 1,476,844; Dec. 11.
Roeker, Hugo, Clinton, Wis. Trip hammer. 1,476,923; Dec. 11.
Roessel, Louis. (See Collins, C. S., and Roessel.)
Rogers, Lore A., Washington, D. C., assignor to assistant Secretary of Agriculture of the United States of America. Making a food product from skim milk. 1,477,153; Dec. 11.
Rooney, Philip P. (See Robertson, F. C., and Rooney.)
Ross, Edwin, assignor to Woodworth Incorporated, New York, N. Y. Vanity box. Des. 63,495; Dec. 11.
Ross Santa Maria, Camilo, Paris, France. Tennis racket with variable tension of cords. 1,476,906; Dec. 11.
Rouanet, Louis, assignor to Compagnie d'Applications Mecaniques, Ivry Port, Seine, France. Detachable wheel. 1,477,079; Dec. 11.
Rountree & Brother Trunk & Bag Company. (See Rountree, Henry W., assignor.)
Rountree, Henry W., assignor to H. W. Rountree & Brother Trunk & Bag Company, Incorporated, Richmond, Va. Wardrobe trunk. 1,476,845; Dec. 11.
Royal Packing Company. (See Walden, Cecil J., assignor.)
Royal Typewriter Company. (See Hess, Edward B., assignor.)
Rubber-Metal Horse Footwear, Inc. (See Robertson, F. C., and Rooney, assignors.)
Rubin, Adolph, assignor to Sieber Products Mfg. Co., St. Louis, Mo. Loose-leaf binder. 1,476,767; Dec. 11.
Rubin, Adolph, assignor to Sieber Products Mfg. Co., St. Louis, Mo. Loose-leaf binder. 1,476,768; Dec. 11.
Rubwood, Inc. (See Atwood, Harry N., assignor.)
Rundell, Joe J., Pierceville, Kans. Topping knife. 1,476,846; Dec. 11.
Ruths, Robert J., Baltimore, Md. Spark plug. 1,477,522; Dec. 11.
Ruttenberg, Edward C., Chicago, Ill. Lamp finial. 1,477,523; Dec. 11.
Ruttenberg, Edward C., Chicago, Ill. Finial. 1,477,524; Dec. 11.
Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Shuttle-changing loom. 1,476,847; Dec. 11.
Sailburg, Charles W., assignor to Animated Picture Products Company, New York, N. Y. Movable design. 1,477,080; Dec. 11.
Sabel, John C. (See Kandler, E., and Sabel.)
Sackner, Wade E., Grand Rapids, Mich. Form. 1,477,388; Dec. 11.
Safstrom, Gustaf A., Chicago, Ill. Internal-combustion-engine equipment. 1,477,188; Dec. 11.
Salinas, Jose R., Monterrey, Mexico. Flycatcher. 1,477,081; Dec. 11.
Samaha, Mansour, Washington, D. C. Building construction. 1,477,451; Dec. 11.
Samborsky, Andrew, St. Louis, Mo. Guard for electric switches. 1,477,389; Dec. 11.
Sandbo, Anton L., Rock Island, Ill. Wheel alignment indicator. 1,477,450; Dec. 11.
Sander, Willy, assignor to Firm of Carl Zeiss, Jena, Germany. Stereoautograph. 1,477,082; Dec. 11.
Sanford, Hugh W., Knoxville, Tenn. Hub and journal box. 1,477,449; Dec. 11.
Sarkisian, Dickran M., Forest Hills, N. Y. Curtain holder. 1,477,286; Dec. 11.
Saunders, Arthur H., Richmond, Va. Collapsible tube and cut-off therefor. 1,477,452; Dec. 11.
Sauzedde, Claude, Mount Clemens, and J. L. Buchanan, Detroit, Mich. Spare-wheel mounting. 1,477,287; Dec. 11.
Sawyer, Israel J., Haskell, Okla. Trunk crate. 1,477,008; Dec. 11.
Schaake, William, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley-wire splicer. 1,477,386; Dec. 11.
Schanke, William, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley frog. 1,477,387; Dec. 11.
Schacht, Julius, New York, N. Y. Bathing-suit carrier. Des. 63,496; Dec. 11.
Scherer, Albert G., assignor to Excelsior Steel Furnace Company, Chicago, Ill. Heating device. 1,476,848; Dec. 11.
Schlesinger, Louis, assignor to Bradley Washfountain Co., Milwaukee, Wis. Lavatory. 1,477,189; Dec. 11.
Schmidt, Henry G., assignor to The Norwalk Tire & Rubber Company, Norwalk, Conn. Tire. Des. 63,497; Dec. 11.
Schmidt, Henry G., assignor to The Norwalk Tire & Rubber Company, Norwalk, Conn. Tire. Des. 63,498; Dec. 11.
Schmid, William, Coldwater, Mich. Line-winding mechanism. 1,476,769; Dec. 11.
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Gun carriage having a cranked carriage axle. 1,476,849; Dec. 11.
Schofield, Frederick C., assignor to The Tobacco Stemming Machine Company, Lynchburg, Va. Stemming tobacco. 1,476,770; Dec. 11.
Schofield, Frederick C., assignor to The Tobacco Stemming Machine Company, Lynchburg, Va. Tobacco-stemming machine. 1,476,771; Dec. 11.
Schreiber, Benjamin H., Galveston, Tex. Tire. 1,477,453; Dec. 11.
Schröeder, Edmund, Berlin, Germany, assignor to the Firm Braun-Brüning & Co., Basel, Switzerland. Device for heating forging pieces by electric-resistance heating. 1,477,009; Dec. 11.
Schroeder, Martin P. H., Chicago, Ill. Manifold lock. 1,476,924; Dec. 11.
Schroeter, George A. (See Marteau, R. L., and Schroeter.)
Schulde, John, assignor to Harry L. Hussmann Refrigerator & Supply Company, St. Louis, Mo. Counter refrigerator. 1,476,925; Dec. 11.
Schulde, John, assignor to Harry L. Hussman Refrigerator & Supply Company, St. Louis, Mo. Showcase refrigerator. 1,476,926; Dec. 11.
Schumann, Frank A., South Bend, Ind. Automatic adjustable cylinder lap. 1,476,927; Dec. 11.
Schwantes, Julius A., assignor to Palmolive Co., Milwaukee, Wis. Soap machine. 1,476,772; Dec. 11.
Scott, Archie, St. Petersburg, Fla. Torch. 1,477,010; Dec. 11.
Scovill Manufacturing Company. (See Slater, Thomas F., assignor.)
Scrabic, Carl, Urbana, Ohio. Stylus mounting for reproducers. 1,476,850; Dec. 11.
Scrabic, Carl, Urbana, Ohio. Sound reproducer of talking machines. 1,476,928; Dec. 11.
Seale, Jessie E. M., Odessa, Fla. Aeroplane. 1,476,730; Dec. 11.
Seely, Thomas H., Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 1,477,011; Dec. 11.
Seibert, Heinrich, Berlin, Germany. Electric heating furnace. 1,477,454; Dec. 11.
Seidl, Frank J. (See Blodgett, Frank C., assignor.)
Seng Company, The. (See Kelly, William J., assignor.)
Sesser, Willy G., assignor to Greater Detroit Rexall Club, Detroit, Mich. Sign. Des. 63,499; Dec. 11.
Shadrick, Richard H., Minneapolis, Minn. Hydrostatic gas-heater control. 1,477,083; Dec. 11.
Shaw, Frank R. (See Fay, R. D., and Shaw.)
Shaw, John K., Minneapolis, assignor to C. F. Dahlberg, St. Paul, Minn. Apparatus for varying the thickness of fiber layers. 1,477,288; Dec. 11.
Shore, Joseph R., assignor to American Concrete-Steel Company, Newark, N. J. Scaffolding for centering and the like. 1,477,190; Dec. 11.
Shreve Charles A. B. (See Walter, Albert U., assignor.)
Sieber Products Mfg. Co. (See Rubin, Adolph, assignor.)
Simmen, Paul J., Eden, N. Y. Track hazard indicator. Re15,732; Dec. 11.
Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical system. 1,477,455; Dec. 11.
Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical system and apparatus. 1,477,456; Dec. 11.
Simokaitis, Joseph, Dover, Me. Snap button. 1,477,289; Dec. 11.
Simon, Arthur. (See Meyer, F. W., and Simon.)
Simon, Herman F., Fitchburg, assignor to Parks-Cramer Company, Boston, Mass. Vaporizing apparatus. 1,476,773; Dec. 11.
Simon, Herman F., Fitchburg, assignor to Parks-Cramer Company, Boston, Mass. Vaporizer. 1,476,774; Dec. 11.

Simpson, Edward J., New York, N. Y. Carburetor. 1,477,012 Dec. 11.
Simpson, James E., Tulsa, Okla. Radiator cap. Des. 63,500 Dec. 11.
Simson, Max, New York, N. Y. Manufacturing rings. 1,477,457 Dec. 11.
Simson, Max, New York, N. Y. Manufacturing finger rings and ring findings. 1,477,458 Dec. 11.
Singer Manufacturing Company, The. (See Illeb, Peter, assignor.)
Sisley, Eugene M., Huntington, Oreg. Demountable rim. 1,477,290; Dec. 11.
Skelly, Bernard H., Bridgeport, Conn., assignor to Bowen Products Corporation, Auburn, N. Y. Automatic lubricant-supplying magazine. 1,477,459; Dec. 11.
Slater, Thomas F., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity box. Des. 63,501; Dec. 11.
Slater, Thomas F., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity box. Des. 63,502; Dec. 11.
Slater, Thomas F., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity box. Des. 63,503; Dec. 11.
Slater, Thomas F., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity box. Des. 63,504; Dec. 11.
Slater, Thomas F., assignor to Scovill Manufacturing Company, Waterbury, Mass. Vanity box. Des. 63,505; Dec. 11.
Slater, Thomas F., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity box. Des. 63,506; Dec. 11.
Sloan, Sara, Denver, Colo. Brush. 1,477,390; Dec. 11.
Sloper, Thomas, Devizes, England. Apparatus for use in the manufacture of rubber goods. 1,477,391; Dec. 11.
Smith, A. O., Corporation. (See Smith, Charles S., assignor.)
Smith, Aurelius, Indianapolis, Ind. Reversible cushion shoe heel. 1,477,191; Dec. 11.
Smith, Charles F., New Britain, Conn., assignor to Landers, Frary & Clark. Knife. 1,477,291; Dec. 11.
Smith, Charles S., assignor to A. O. Smith Corporation, Milwaukee, Wis. Corrugated metallic car end and manufacturing the same. 1,476,731; Dec. 11.
Smith, Clarence R., Winthrop, Mass. Method of and appliance for registering. 1,477,392; Dec. 11.
Smith, Clyde J. (See Forsyth, John A., assignor.)
Smith, Elwood, Brewster, Wash. Antiloss device for scarfpins and the like. 1,477,461; Dec. 11.
Smith, Herbert B., Brooklyn, N. Y. Game appliance. 1,477,460; Dec. 11.
Smith, Joseph A., Syracuse, N. Y., assignor to Ner-A-Car Corporation. Electric-current generator. 1,476,733; Dec. 11.
Smith, Manning J., Philadelphia, Pa. Belt. 1,477,084; Dec. 11.
Smith Manufacturing Co. (See Smith, Samuel L., assignor.)
Smith, Robert E. (See Clayton, William F., assignor.)
Smith, Samuel L., assignor to Smith Manufacturing Co., Inc., Ellensburg, Wash. Article of manufacture. 1,476,732; Dec. 11.
Snorf, Newton L., Chicago, Ill., assignor to Edmunds & Jones Corporation. Tonneau lamp. 1,476,929; Dec. 11.
Snyder, Frederick T., New York, N. Y. Making pipe and in a special form of pipe. 1,476,734; Dec. 11.
Snyder, Simon, assignor to Sprout, Waldron & Co., Muncy, Pa. Attrition-mill plate. 1,477,013; Dec. 11.
Sobel, Samuel, Seagate, N. Y. Pedestal for display fixtures. Des. 63,507; Dec. 11.
Sohst, Otto, assignor to Farbwerke vorm. Meister Lucius & Brüning, Hochst-on-the-Main, Germany. Preparing sulphonic acids of the arylides of 2.3-oxynaphthoic acid. 1,477,014; Dec. 11.
Somerfleck, Herman, Brooklyn, N. Y. Handle. Des. 63,508; Dec. 11.
Sonneborn, Charles, West Pittsburg, Pa. Sharpener for pencil leads. 1,477,192; Dec. 11.
Sonora, Inc. (See Wolff, Joseph, assignor.)
Soss, Joseph, Brooklyn, N. Y. Hinge. 1,477,193; Dec. 11.
Sparks, William, Jackson, Mich., assignor, by mesne assignments, to Stewart-Warner Speedometer Corporation, Richmond, Va. Liquid-feeding device. 1,477,015; Dec. 11.
Spears, William, Golden, Colo. Oil pan for internal-combustion engines. 1,477,016; Dec. 11.
Speck, Clifford P., Oakland, Calif. Depositor for confection-making apparatus. 1,477,085; Dec. 11.
Spooner, Charles H., Princeton, Me. Pump. 1,477,462; Dec. 11.
Spragens, Stephen M., Cincinnati, Ohio. Calendar. 1,477,463; Dec. 11.
Spragens, Stephen M., Cincinnati, Ohio. Calendar. 1,477,464; Dec. 11.
Sprague, Clarence A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Current-controlling and static-reducing system. 1,477,017; Dec. 11.
Springborn, Richard, Cleveland, Ohio. Valve-operating mechanism. 1,477,154; Dec. 11.
Sproull, John C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for making abrasion tests. 1,476,775; Dec. 11.
Sprout, Waldron & Co. (See Killick, Frank R., assignor.)
Sprout, Waldron & Co. (See Snyder, Simon, assignor.)
Squibb, Lloyd Y., Camden, N. J., assignor to Victor Talking Machine Company. Automatic stopping mechanism. 1,477,295; Dec. 11.
Stack, Edward A., Bristol, Conn. Valve lathe. 1,477,194; Dec. 11.
Stafford Company, The. (See Jackson, Simeon S., assignor.)
Stafford, Lewis F., assignor to Stafford Sales Company, Chicago, Ill. Bumper. 1,477,155; Dec. 11.
Stafford Sales Company. (See McCausland, John W., assignor.)
Stafford Sales Company. (See Stafford, Lewis F., assignor.)
Stahle, John A., assignor to Stahle Mechanical Tire Company, Ltd., Boston, Mass. Resilient wheel. 1,477,292; Dec. 11.
Stahle Mechanical Tire Company. (See Stahle, John A., assignor.)
Stamm, Max, H. Tucker, and M. J. Peltz, Philadelphia, Pa. Air-cooled electric motor. 1,476,776; Dec. 11.
Standard Plastering System. (See Walper, Curry O., assignor.)
Standard Pressed Steel Co. (See Gade, Harald F., assignor.)
Stanly, Fred D. (See Black, F. A., and Stanly.)
Starr, James R. L. (See Dodd, Henry S., assignor.)
Steinacher, Rudolph. (See Graf, Emil, assignor.)
Steiner, Frank M., and W. S. Graves, Minneapolis, Minn., assignors to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,477,018; Dec. 11.
Steiner, George A., assignor, by mesne assignments, to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,477,019; Dec. 11.
Steiner Sales Company. (See Overholt, Albert L., assignor.)
Steiner Sales Company. (See Steiner, F. M., and Graves, assignors.)
Steiner Sales Company. (See Steiner, George A., assignor.)
Stewart-Warner Speedometer Corporation. See Sparks, William, assignor.)
Still, Benjamin A., Cullman, Ala. Hook. 1,477,293; Dec. 11.
Stockel, Gerhard, assignor to I. H. Miller, Chicago, Ill. Toy savings bank. 1,476,735; Dec. 11.
Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical system. 1,477,465; Dec. 11.
Story, Ralph F., assignor of one-half to A. S. Horlacher, Indianapolis, Ind. Illuminated number plate, rear lamp, and signal apparatus. 1,477,294; Dec. 11.
Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Lister plow. 1,476,736; Dec. 11.
Strauss, Ferdinand, New York, N. Y. Toy. Des. 63,509; Dec. 11.
Strout, Ralph C., Wollaston, assignor to Pneumatic Scale Corporation, Limited, Norfolk Downs, Mass. Package-conveying mechanism. 1,476,737; Dec. 11.
Strube, Wilhelm. (See Wagner, H., and Strube.)
Stuart, Milton C. (See Dyson, C. W., and Stuart.)
Stucki, Arnold, Pittsburgh, Pa. Roller side bearing. 1,477,195; Dec. 11.
Stucki, Arnold, Pittsburgh, Pa. Roller side bearing. 1,477,196; Dec. 11.
Studebaker, John W. (See Woolman, Roy C., assignor.)
Stuerzer, Otto F., Milwaukee, Wis. Deodorizer. 1,476,930; Dec. 11.
Stump, Ira E., assignor of one-half to O. C. Billman, Cleveland, Ohio. Ball cock. 1,477,393; Dec. 11.
Suchy, Robert, Griesheim-on-the-Main, assignor to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Electrolytic production of potassium bicarbonate from potassium-chloride solution. 1,477,086; Dec. 11.
Sullivan, Raymond H., assignor to North East Electric Company, Rochester, N. Y. Storage-battery system. 1,477,197; Dec. 11.
Sundh Electric Company. (See Larsen, Louis, assignor.)
Susquehanna Silk Mills. (See Bunting, James H., assignor.)
Swartz, Edward M., Roxbury, assignor to Keystone Mfg. Co., Boston, Mass. Garden tool. 1,477,302; Dec. 11.
Sylvan, Joseph, Chicago, Ill. Skylight construction. 1,476931; Dec. 11.
Sylvan, Joseph, Cicero, Ill. Warm-air heating furnace. 1,476,932; Dec. 11.
Szydlowski, Paul, Detroit, Mich. Tilting steering wheel for motor-driven vehicles. 1,476,851; Dec. 11.
Tabler, John H., Washington, D. C. Belt fastener. 1,476,852; Dec. 11.
Tabor, William B., New Douglas, Ill. Fence construction. 1,476,853; Dec. 11.
Tabor, William B., New Douglas, assignor of one-half to A. D. Martin, Gillespie, Ill. Step signal for crossings. 1,477,296; Dec. 11.
Taeubert, Edmund E., assignor to L. M. Harvey, Los Angeles, Calif. Starting switch for electric motors. 1,476,777; Dec. 11.
Taglilabue, Charles J., Manufacturing Co. (See Milker, Herbert P., assignor.)

Tanberg, Arthur P., Wilmington, Del., and H. Winkel, Scranton, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing tetra-substituted ureas. 1,477,087; Dec. 11.
Tate, Edward H., Malden, Mass. Holder for coiled wire. 1,476,778; Dec. 11.
Taub, Herman, New York, N. Y. Toothbrush. 1,476,779; Dec. 11.
Tauern, Odo D., and N. Lyon, Freiburg, Germany. Device for motion-picture cameras. 1,477,297; Dec. 11.
Taylor, Joseph H., Benton, Tenn. Tractor plow. 1,476,738; Dec. 11.
Templeton, Walter B., Chicago, Ill. Jack. 1,477,298; Dec. 11.
Tenerowicz, Peter, Milwaukee, Wis. Milk and mail receptacle. 1,476,933; Dec. 11.
Terhaar, Louis P., assignor of one-third to H. Kutscher, New York, N. Y. Unchangeable motor number. 1,477,466; Dec. 11.
Thatcher, Harry S., assignor to The Celite Company, Los Angeles, Calif. Filtration. 1,477,394; Dec. 11.
Thorkelin, Carl F. G. (See Hall, B. J., and Thorkelin.)
Thrift, Homer C., Burkburnett, Tex. Pump. 1,477,300; Dec. 11.
Thurston, Ernest B., assignor to The Haughton Elevator & Machine Co., Toledo, Ohio. Elevator-car leveler. 1,477,156; Dec. 11.
Tilley, Dewit N., Mount Airy, N. C. Flue-cleaning apparatus. 1,476,854; Dec. 11.
Tiptex Metal Hose Corporation. (See Fulton, William H., assignor.)
Tobacco Stemming Machine Company, The. (See Schofield, Frederick C., assignor.)
Tobin, John W. (See Hart, Leo B., assignor.)
Topp, Maurice J., Manlius, assignor of one-third to W. C. Clark and one-third to A. R. Hammerle, Syracuse, N. Y. Collapsible sawhorse. 1,476,855; Dec. 11.
Torngren, Otto P., Everett, Mass. Automatic valve. 1,476,739; Dec. 11.
Towner, Heber E., Santa Ana, Calif. Attachment for tractors. 1,477,089; Dec. 11.
Travelight Manufacturing Co. (See Dwyer, Francis P., assignor.)
Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,477,395; Dec. 11.
Treanor, Edward D., Pittsfield, Mass., assignor to General Electric Company. Stationary induction apparatus. 1,477,396; Dec. 11.
Tucker, Charles E., York, Pa. Gasoline-dispensing apparatus. 1,476,956; Dec. 11.
Tucker, Harry. (See Stamm, M., Tucker, and Peltz.)
Tuers, Harold L., New York, N. Y. Envelope. 1,477,157; Dec. 11.
Turbine Fuel Oil Burner Co. (See Hurd, Benjamin W., assignor.)
Turner, Robert C., Columbus, Ohio, assignor, by mesne assignments, to Electropure Corporation, Detroit, Mich. Apparatus for purifying liquids. 1,477,088; Dec. 11.
Turner, William P., Oakland, Iowa. Stock waterer. 1,477,467; Dec. 11.
Tuttle, Beerl H., Absarokee, Mont. Haystacker. 1,476,857; Dec. 11.
Tverdahl, Edward A., assignor of one-half to J. F. Davis, Chicago, Ill. Rebound-check shock absorber. 1,477,299; Dec. 11.
U. S. Ball Bearing Manufacturing Company. (See Diesk, John, assignor.)
U. S. Slicing Machine Company. (See Folk, Joseph, assignor.)
Underwood, Frank, Memphis, Tenn. Air choke for carburetors. 1,477,397; Dec. 11.
Underwood Typewriter Company. (See Herrman, Charles, assignor.)
United Metal Seal Company. (See Berg, Carl O., assignor.)
United Shoe Machinery Corporation. (See Ballard, Milton H., assignor.)
United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)
United Shoe Machinery Corporation. (See Seely, Thomas H., assignor.)
Upham, Gilbert R., assignor to The De Long Hook and Eye Company, Philadelphia, Pa. Laundry-marking pin. 1,477,301; Dec. 11.
Uyama, Shunzo, Tonodan, Kyoto, Japan. Manufacturing Catguts. 1,476,740. Dec. 11.
Valentine, Frederick A. (See Valentine, Robert D. and F. A.)
Valentine, Robert D., and F. A., Minneapolis, Minn. Power-driven cultivating machine. 1,477,398; Dec. 11.
Van Meter, Morton, Cadillac, Mich. Wheel. 1,476,780; Dec. 11.
Vandeberg, Teddie C., Epping, N. Dak. Compound hand air-compressing pump. 1,476,858; Dec. 11.
Vandercar, William J., Cohoes, assignor, by mesne assignments, to The Colonial Metal Products Company, Inc., Syracuse, N. Y. Advertising device for weighing scales. Re15,731; Dec. 11.
Vandergaw, Edward B., Brooklyn, and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 63,510; Dec. 11.
Vandergaw, Edward B., Brooklyn, and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 63,511; Dec. 11.
Vandergaw, Edward B., Brooklyn, and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 63,512; Dec. 11.
Vandergaw, Edward B., Brooklyn, and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 63,513; Dec. 11.
Vandergaw, Edward B., Brooklyn, and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 63,514. Dec. 11.
Vandergaw, Edward B., Brooklyn, and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 63,515; Dec. 11.
Vandergaw, Edward B., Brooklyn, and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 63,516; Dec. 11.
Vandergaw, Edward B., Brooklyn, and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 63,517; Dec. 11.
Vandergaw, Edward B., Brooklyn, and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 63,518; Dec. 11.
Vandergaw, Edward B., Brooklyn, and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 63,519; Dec. 11.
Vander Henst, Abraham. (See Vandervoort, Milford T., assignor.)
Vandervoort, Milford T., assignor to A. Vander Henst, Grand Rapids, Mich. Fuel-passage lock for internal-combustion engines. 1,476,741; Dec. 11.
Vaughan, Henry A., Selma, Ala. Toy. 1,476,859; Dec. 11.
Vedder, John W., and F. W. Lodding, assignors to Rice, Barton & Fales Machine & Iron Co., Worcester, Mass. Paper-making machine. 1,477,020. Dec. 11.
Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Counting machine. 1,477,090; Dec. 11.
Veeder Manufacturing Company, The. (See Veeder, Curtis H., assignor.)
Vergeer, Albert W. P., New York, N. Y. Display stand. 1,476,860; Dec. 11.
Via, Lemuel R. (See Lykens, James T., assignor.)
Victorsohn, Morris, Brooklyn, N. Y. Speed regulator for phonographs. 1,477,399; Dec. 11.
Victor Talking Machine Company. (See Squibb, Lloyd Y., assignor.)
Vincent, Edward H., Detroit, Mich. Tilting and locking steering wheel. 1,476,742; Dec. 11.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Pumping mechanism. 1,476,781; Dec. 11.
Volwiler, Ernest H., Chicago, and R. Adams, Urbana, assignors to The Abbott Laboratories, Chicago, Ill. Anæsthetic compound. 1,476,934; Dec. 11.
Von der Heydt, Harry K., Butte, Mont. Dental appliance. 1,477,091; Dec. 11.
Von Gluhn, George J., Brooklyn, N. Y. Pipe fitting. 1,476,861; Dec. 11.
Wackman, Louis B., St. Louis, Mo. Barrel-sealing device. 1,476,935. Dec. 11.
Wadsworth Watch Case Company, The. (See Conant, Arthur P., assignor.)
Wagner, Hans, and W. Strube, Magdeburg, Germany, assignors to Nathan Manufacturing Company, New York, N. Y. Valve. 1,476,862; Dec. 11.
Wagner, Hugo G., Point Pleasant Beach, N. J. Apparatus for making electric-battery elements. 1,476,782; Dec. 11.
Wainwright, George, Boston, Mass. Bag-filling machine. 1,477,198; Dec. 11.
Walt, John C., administrator. (See Lowenstein, Frits.)
Walden, Cecil J., assignor to Royal Packing Company, Los Angeles, Calif. Conveyer. 1,476,936; Dec. 11.
Walden, Cecil J., Los Angeles, Calif. Pimiento coring and skin-loosening machine. 1,476,937; Dec. 11.
Waldron, William H., Washington, D. C. Military stock. 1,477,402; Dec. 11.
Walker, Stephen M., Oak Park, Ill. Container. 1,477,400; Dec. 11.
Walker, William H., Chicago, Ill. Phone index and guide. 1,476,743; Dec. 11.
Wallace, Halbert C., assignor of three-fourths to J. I. Wallace, Kansas City, Mo. Pneumatic fan. 1,477,469; Dec. 11.
Wallace, Jesse I. (See Wallace, Halbert C., assignor.)
Walle, Ludwig S., Scotia, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,477,401; Dec. 11.
Walper, Curry O., assignor to Standard Plastering System, Detroit, Mich. Means and method for preparing plastic compositions. 1,476,938; Dec. 11.
Walter, Albert U., assignor to C. A. B. Shreve, Baltimore, Md. Liquid-level indicator. 1,477,403; Dec. 11.
Walton, Edward L., et al. (See Brumfield, Thomas R., assignor.)
Wansor, Claudius, Hempstead, assignor to W. B. Wansor, Locust Valley, Long Island, N. Y. Broom. 1,477,468; Dec. 11.
Wansor, William B. (See Wansor, Claudius, assignor.)
Ward, Alger L. (See Essex, H., and Ward.)
Ward, William, sr., Brooks, Wis. Railway tie and anti-spreading device. 1,477,470; Dec. 11.

Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Ceiling plate for lighting fixtures. Des. 63,520; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Bracket for lighting fixtures. Des. 63,521; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Bracket for lighting fixtures. Des. 63,522; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Lighting fixture. Des. 63,523; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Bracket for lighting fixtures. Des. 63,524; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Lighting fixture. Des. 63,525; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Candlestick for lighting fixtures. Des. 63,526; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Lighting fixture. Des. 63,527; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Lighting fixture. Des. 63,528; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Bracket for lighting fixtures. Des. 63,529; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Bracket for lighting fixtures. Des. 63,530; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Bracket for lighting fixtures. Des. 63,531; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Lighting fixture. Des. 63,532; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Lighting fixture. Des. 63,533; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Lighting fixture. Des. 63,534; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Lighting fixture. Des. 63,535; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Lighting fixture. Des. 63,536; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Lighting fixture. Des. 63,537; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Lighting fixture. Des. 63,538; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Lighting fixture. Des. 63,539; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Lighting fixture. Des. 63,540; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Lighting fixture. Des. 63,541; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Lighting fixture. Des. 63,542; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Bracket for lighting fixtures. Des. 63,543; Dec. 11.
Warman, Percy S., Roselle, N. J., assignor to Beverly Lights Corporation, Providence, R. I. Bracket for lighting fixtures. Des. 63,544; Dec. 11.
Warner, Ida F. (See Onkley, Sterling A., assignor.)
Watkeys, Thomas L., Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Cooling still. 1,476,744; Dec. 11.
Watson, Charles B. (See Meyer, H. J., and Watson.)
Watson, Theodore W., Phoenix, Ariz. Garbage-receptacle stand. 1,477,404; Dec. 11.
Weare, Neal L., Milwaukee, Wis. Safety pin. 1,477,199; Dec. 11.
Weaver, Floyd C., Washington, D. C. Machine for making true plane surfaces. 1,476,863; Dec. 11.
Weber, Louis J., Scotia, N. Y., and E. C. Gooch, Estes Park, Colo., assignors to General Electric Company. Automatic motor starter. 1,477,405; Dec. 11.
Webster, Lewis E., assignor to The Wyoming Shovel Works, Wyoming, Pa. Shovel handle. 1,476,783; Dec. 11.
Weed Differential-Rotary Motor Company. (See Weed, Howard L., assignor.)
Weed, Howard L., assignor to Weed Differential-Rotary Motor Company, Detroit, Mich. Rotary internal-combustion engine. 1,476,784; Dec. 11.
Wellman, Harvey P., Oakland, Calif. Automobile elevator. 1,477,471; Dec. 11.
Welsh, Chester J., Conneaut, Ohio. Reenforced split D handle. 1,477,092; Dec. 11.
Wenz, Joseph H., Long Island City, N. Y. Collar button. 1,477,093; Dec. 11.
Werner, Edward H., Chicago Ill. Insulator. 1,477,406; Dec. 11.
West, Clifton, London, England. Temperature-alarm apparatus. 1,476,864; Dec. 11.
Western Electric Company. (See Sprague, Clarence A., assignor.)
Westinghouse Air Brake Company. (See Farmer, Clyde C., assignor.)
Westinghouse Electric and Manufacturing Company. (See Allcutt, Chester T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brackett, Quincy A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Bradshaw, W. M., and Boddie, assignors.)
Westinghouse Electric & Manufacturing Company. (See Colby, Ora A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Conrad, Frank, assignor.)
Westinghouse Electric Products Company. (See Forshee, Frank E., assignor.)
Westinghouse Electric Products Company. (See Griffin, George B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hands, Howard A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hoey, Samuel C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kasley, Alexander T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kemp, Robert, assignor.)
Westinghouse Electric & Manufacturing Company. (See Little, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Murdock, Henry D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Reid, Thomas A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schaake, William, assignor.)
Westinghouse Electric & Manufacturing Company. (See Simmon, Karl A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Storer, Norman W., assignor.)
Westman, Almar E., assignor of one-fourth to C. H. Lea, one-fourth to G. A. Olofson, and one-fourth to C. Olofson, Fenton, Mich. Grinding machine. 1,477,158; Dec. 11.
Weyrauch, Ewald W., Rochester, N. Y. Rack for talking-machine records. 1,476,865; Dec. 11.
Whitcomb, Russell, New York, N. Y., and F. Goertz, Newark, N. J., assignors to August Goertz & Co. Handle for detachable knife blades. 1,477,407; Dec. 11.
White, Charles C., Chicago, Ill. Built-in wardrobe. 1,476,785; Dec. 11.
White Motor Company, The. (See Goode, Gilbert C., assignor.)
White, William E., Chicago, Ill. Bar chair. 1,476,939; Dec. 11.
Whiting & Davis Company. (See Rammel, Thomas H., assignor.)
Whiting, Robert R., Darien, Conn. Boat propeller. 1,477,200; Dec. 11.
Whitmore, William A., Nelsonville, Ohio. Water feed for steam boilers. 1,477,472; Dec. 11.
Wickey, Andrew, East Chicago, Ind. Small hot-water tank electrically heated. 1,477,473; Dec. 11.
Wiedlich Bros. Mfg. Co., The. (See Flauder, Alfred J., assignor.)
Wight, Sedgwick N., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Switch protection for block-signal systems. 1,476,866; Dec. 11.
Wilkinson, Nathan, Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Commutator-cooling apparatus. 1,476,940; Dec. 11.
Williams, Dwight O., Galion, Ohio. Shoehorn. 1,477,408; Dec. 11.
Williams, Edward J., River Edge, N. J. Method and means for laying shingles. 1,476,745; Dec. 11.
Williams, Edward J., River Edge, N. J. Assembling of shingles. 1,476,746; Dec. 11.
Wilson, Elbert A., Arlington, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of buttons. 1,477,094; Dec. 11.
Winkel, Herbert. (See Tanberg, A. P., and Winkel.)
Winn, Willard A., et al., trustees. (See Hill, Ernst V., assignor.)
Winter, Courtney P., New Brunswick, N. J. Method of and apparatus for severing sheets from a web. 1,477,021; Dec. 11.
Wirth, Philip W., et al. (See Latta, William W., assignor.)
Wisniowski, Joseph J., Chicopee, Mass. Tire tread. Des. 63,545; Dec. 11.
Wolever, Franklin H., Chicago, Ill. Method of and apparatus for renewing oil wells. 1,476,747; Dec. 11.
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora, Inc. Phonograph cabinet. Des. 63,546; Dec. 11.
Wolter, Herman H., assignor to Edward Miller & Company, Meriden, Conn. Lantern. Des. 63,547; Dec. 11.
Wood, Garfield A., Algonac, Mich. Hydraulic-hoist heater. 1,476,748; Dec. 11.
Wood, John C., Alexandria, Mo. Plow. 1,477,022; Dec. 11.
Wood Products Company, The. (See Mahncke, Hans, assignor.)
Woodworth Incorporated. (See Ross, Edwin, assignor.)
Woolman, Roy C., assignor of one-half to J. W. Studebaker, Des Moines, Iowa. Artwork desk. 1,477,409; Dec. 11.

Wrigley, Wm., Jr., Company. (See Ranney, Willet B., assignor.)
Wunderlich, Christian J., Mitchell, S. Dak. Horseshoe. 1,476,867; Dec. 11.
Wurl, Fred G., Milwaukee, Wis. Torch. 1,477,410; Dec. 11.
Wyoming Shovel Works, The. (See Webster, Lewis E., assignor.)
Yawman & Erbe Manufacturing Co. (See Clark, James R., assignor.)
Yeomans, Lucien L., assignor to Pioneer Production Company, Chicago, Ill. Time-study watch. 1,476,749; Dec. 11.
Young, William A., and F. Brill, Milwaukee, assignors to Pawling and Harnischfeger Company, West Milwaukee, Wis. Electric-cable-winding mechanism. 1,476,941; Dec. 11.
Youngblood, Joseph C., Atwood, Kans. Fuelizer and preheater. 1,476,942; Dec. 11.
Zeigler, Benjamin F., Fort Worth, Tex. Crane attachment for handling well-drilling bits and the like. 1,477,095; Dec. 11.
Zeiss, Firm of Carl. (See Eppenstein, Otto, assignor.)
Zeiss, Firm of Carl. (See Sander, Willy, assignor.)
Zinser, Henry, New York, N. Y. Window shade. 1,477,159; Dec. 11.
Zwisler, Irvin. (See Evans, B. A., and Zwisler.)

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 11TH DAY OF DECEMBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abrasion tests, Method and apparatus for making. J. C. Sproull. 1,476,775; Dec. 11.
Acids from aqueous solutions thereof, Separating organic. E. Piron. 1,477,076; Dec. 11.
Acids of the arylides of 2,3-oxynaphthoic acid, Preparing sulphonic. O. Sohst. 1,477,014; Dec. 11.
Adapter: T. J. Kerwin. 1,476,982; Dec. 11.
Adjustable gauge. J. Bath and W. E. Gray. 1,476,681; Dec. 11.
Advertising device. S. A. Gleason. 1,477,117; Dec. 11.
Advertising device. C. B. Kirkpatrick. 1,476,984; Dec. 11.
Advertising purposes, Display device for. O. B. Carson. 1,477,241; Dec. 11.
Aeroplane. J. E. M. Seale. 1,476,730; Dec. 11.
Agitator. J. J. Mojonnier and H. R. Phillips. 1,476,996; Dec. 11.
Agricultural implement. W. D. Dewend. 1,476,879; Dec. 11.
Amalgamator. A. Ferguson. 1,476,808; Dec. 11.
Amusement apparatus or machine. H. P. and T. Jackson. 1,477,498; Dec. 11.
Amusement device. H. N. Ridgway. 1,476,922; Dec. 11.
Anesthesia, Apparatus for producing local. F. J. Fabret. 1,476,699; Dec. 11.
Anesthetic compound. E. H. Volwiler and R. Adams. 1,476,934; Dec. 11.
Anket and arch retainer. F. H. Jensen. 1,477,357; Dec. 11.
Annealing mastic pipe. G. Monrath. 1,476,828; Dec. 11.
Anode for forming percompounds. G. Baum. 1,477,099; Dec. 11.
Antiglare attachment. A. F. Caskey. 1,477,312; Dec. 11.
Antirattling device. C. B. Daugherty. 1,477,248; Dec. 11.
Antiskid device. W. Kalman. 1,476,716; Dec. 11.
Antiskidding device. N. C. Doss. 1,477,042; Dec. 11.
Antitheft lock. P. Donzero. 1,477,432; Dec. 11.
Aperture sight. T. P. Eustege. 1,476,806; Dec. 11.
Arch support. R. P. O'Donnell. 1,476,915; Dec. 11.
Arch support. H. C. Pfister. 1,477,383; Dec. 11.
Article of manufacture. S. L. Smith. 1,476,732; Dec. 11.
Ash tray, Cigarette-extinguishing. W. H. J. Hipple, jr. 1,477,122; Dec. 11.
Assembly mechanism. S. A. Bisey. 1,477,205; Dec. 11.
Automatic control. J. F. Faust. 1,477,216; Dec. 11.
Automobile buffer. G. A. Lyon. 1,476,825; Dec. 11.
Automobile elevator. H. P. Wellman. 1,477,471; Dec. 11.
Automobile jack. V. V. Curtis. 1,476,877; Dec. 11.
Automobile license plate, Illuminated. M. Balogh. 1,477,415; Dec. 11.
Automobile lock. G. L. Baker. 1,477,026; Dec. 11.
Automobile lock. R. A. Dobbelaar. 1,477,165; Dec. 11.
Automobile lock system. T. R. Cornick. 1,477,317; Dec. 11.
Automobile radiator. W. B. Cowan. 1,477,209; Dec. 11.
Automobile robe holder. G. Canning. 1,477,031; Dec. 11.
Automobile spring regulator. W. C. Engel. 1,477,433; Dec. 11.
Automobile steering mechanism. L. Haubert. 1,476,886; Dec. 11.
Bag dispenser. J. F. Keenan. 1,477,501; Dec. 11.
Bag-filling machine. G. Wainwright. 1,477,198; Dec. 11.
Bag frame and clasp. T. H. Rammel. 1,477,281; Dec. 11.
Bag-handling implement. L. C. Paine. 1,477,073; Dec. 11.
Baking pan. L. H. Debs. 1,477,249; Dec. 11.
Ball: *See*—
  Golf ball.
Barber's cabinet. A. A. Massie. 1,476,908; Dec. 11.
Bar chair. W. E. White. 1,476,939; Dec. 11.
Barrel-sealing device. L. B. Wackman. 1,476,935; Dec. 11.
Baseball game board. L. D. Kroff. 1,477,224; Dec. 11.
Bathing-suit carrier. J. Schacht. Des. 63,496; Dec. 11.
Batteries, Manufacture of zinc cylinders for primary. S. O. Cowper-Coles. 1,477,109; Dec. 11.
Batteries, Treating and restoring used storage. M. E. Hunt. 1,477,354; Dec. 11.
Battery System, Storage-. R. H. Sullivan. 1,477,197; Dec. 11.
Bearing, Antifriction sliding. D. C. Harris. 1,477,260; Dec. 11.
Bearing, Roller. L. W. Close. 1,477,164; Dec. 11.
Bearing, Roller side. A. Stucki. 1,477,195–6; Dec. 11.
Bearing support. S. A. Dobyne. 1,477,250; Dec. 11.
Bed, Collapsible camp. J. V. Dyrr. 1,477,044; Dec. 11.
Bed, Invalid's. W. A. McCollough. 1,476,902; Dec. 11.
Belt. M. J. Smith. 1,477,084; Dec. 11.
Belt fastener. J. H. Tabler. 1,476,852; Dec. 11.
Binder, Loose-leaf. A. Rubin. 1,476,767–8; Dec. 11.
Bit: *See*—
  Bridle bit.
Block: *See*—
  Building block. Stop block.
  Educational block. Swivel block.
  Paving block.
Blocks and similar molded articles, Manufacture of building. F. P. McIntyre. 1,477,276; Dec. 11.
Board: *See*—
  Baseball game board.
Boat. K. A. Moen. 1,476,763; Dec. 11.
Boats, Attachment for. J. T. Hisert. 1,477,487; Dec. 11.
Bobbin-winding mechanism and speed control therefor. A. Huttinger. 1,476,755; Dec. 11.
Bobbins in running paths, Machine for guiding. A. Orthmann. 1,477,389; Dec. 11.
Boiler-tube sucker and soot ejector. J. H. Goodfellow. 1,477,118; Dec. 11.
Boilers, Water feed for steam. W. A. Whitmore. 1,477,472; Dec. 11.
Book, Check. J. O. Elliott. 1,477,330; Dec. 11.
Bookrest. A. H. Pratt. 1,476,838; Dec. 11.
Booms, Brake and control system for swinging. G. B. Massey. 1,476,989; Dec. 11.
Boot and shoe. A. F. S. Lyons. 1,477,140; Dec. 11.
Borax from saline liquors, Recovering. C. Iddings. 1,476,890; Dec. 11.
Boring machine. A. E. Pearson. 1,476,724; Dec. 11.
Bottle cap. A. F. G. Lucas and J. F. Alexander. 1,477,139; Dec. 11.
Bottling machine. W. E. Haskell. 1,477,485; Dec. 11.
Bowls, Driving means for centrifugal. M. Leiten. 1,476,760; Dec. 11.
Box: *See*—
  Fire box.
Box-cover fastener. H. Appel. 1,476,679; Dec. 11.
Box-making machine. H. A. Denmire. 1,476,954; Dec. 11.
Brake beam. C. Harter. 1,476,752; Dec. 11.
Brake system, Auxiliary. W. J. Rhodes. 1,477,004; Dec. 11.
Bridle bit. H. A. Oelkers. 1,476,999; Dec. 11.
Broaching tool. J. O. Jenking. 1,477,266; Dec. 11.
Broom. C. Wanson. 1,477,468; Dec. 11.
Brush. S. Sloan. 1,477,390; Dec. 11.
Buffer. A. J. Bazeley. 1,476,869; Dec. 11.
Building block. R. Murray. 1,477,072; Dec. 11
Building construction M. Samaha. 1,477,451; Dec. 11.
Building section. V. V. Pittman. 1,477,520; Dec. 11.
Bump r. J. W. McCausland. 1,477,141; Dec. 11.
Bumper. L. F. Stafford. 1,477,155; Dec. 11.
Burner: *See*—
  Oil burner.
Burner for utilizing molasses as a fuel. P. G. Hildebrandt. 1,476,714; Dec. 11.
Burners, Igniter for gaseous-fuel. H. C. Pope and J. H. Fieldhouse. 1,476,725; Dec. 11.
Button, Collar. J. H. Wenz. 1,477,093; Dec. 11.
Button, Snap. J. Simokaitis. 1,477,289; Dec. 11.
Buttons, Manufacture of. E. A. Wilson. 1,477,094; Dec. 11.
Cabinet, Dispensing. M. G. James. Des. 63,466; Dec. 11.
Cabinet drawer. J. B. O'Connor. 1,477,278; Dec. 11.
Cabinet for holding games. A. R. Hager. 1,477,056; Dec. 11.
Cabinet, Towel. F. M. Steiner and W. S. Graves. 1,477,018; Dec. 11.
Cabinet, Towel. G. A. Steiner. 1,477,019; Dec. 11.
Cabinets, Lock device for towel. A. L. Overholt. 1,477,000; Dec. 11.
Cable-winding mechanism, Electric-. W. A. Young and F. Brill. 1,476,941; Dec. 11.
Cake pan. C. M. Naugle. 1,476,910; Dec. 11.
Calculating machine. G. de Giglio. 1,477,116; Dec. 11.
Calculating machine. A. F. Poole. 1,477,077; Dec. 11.
Calendar. S. M. Spragens. 1,477,463–4; Dec. 11.
Camera. A. B. Cubbage and H. Millman. 1,477,038; Dec 11.

Cameras, Device for motion-picture. O. D. Tauern and N. Lyon. 1,477,297; Dec. 11.
Cannon with multiple powder chambers. E. Rimailho. 1,477,078; Dec. 11.
Carbon black, Making. J. W. Martin, jr. 1,477,511; Dec. 11.
Carbonizing machine. W. W. Latta. 1,476,988; Dec. 11.
Carburetor. C. E. Fleming. 1,476,701; Dec. 11.
Carburetor. E. J. Simpson. 1,477,012; Dec. 11.
Carburetor-air choke. F. Underwood. 1,477,397; Dec. 11.
Car, Child's. G. M. Lazear. 1,477,444; Dec. 11.
Car door. C. A. Clark. 1,476,950; Dec. 11.
Car door, Freight-. J. L. Guerrant. 1,477,035; Dec. 11.
Car end and manufacturing the same, Corrugated metallic. C. S. Smith. 1,476,731; Dec. 11.
Car-hauling mechanism. M. Hutton. 1,477,124; Dec. 11.
Car leveler, Elevator-. E. B. Thurston. 1,477,150; Dec. 11.
Car, Railway. T. Elliott. 1,476,960; Dec. 11.
Cars, Signal for motor. J. W. Brimley. 1,477,104; Dec. 11.
Carrier: *See*—
Clothespin carrier. Monorail carrier.
Case: *See*—
Display case. Showcase.
Case. H. R. Haerr. 1,477,451; Dec. 11.
Castings, Apparatus for making chilled. J. Buchanan. 1,477,423; Dec. 11.
Castings, Process and device for making sharply-defined. H. Lohmann. 1,477,508; Dec. 11.
Catalytic compounds and the product obtained thereby, Preparation of. A. E. Houlehan. 1,477,058; Dec. 11.
Catguts, Manufacturing. S. Uyama. 1,476,740; Dec. 11.
Cement material, Apparatus for burning. S. B. Newberry. 1,477,517; Dec. 11.
Chain delivery. C. W. Harrold. 1,476,713; Dec. 11.
Chain-making machine, Automatic. B. J. Jacobson. 1,476,977; Dec. 11.
Chain, Neck. F. A. Ballou, jr. 1,477,235; Dec. 11.
Chair: *See*—
Bar chair.
Chair and couch, Combined. J. G. Lochner. 1,477,507; Dec. 11.
Chuck. H. R. McConnell. 1,476,903; Dec. 11.
Chute shutter, Discharge-. R. M. Conklin. 1,477,245; Dec. 11.
Cigar band. F. X. Maloesay. 1,477,144; Dec. 11.
Cigar or cigarette and match box, Combined. B. Lebwohl. 1,477,173; Dec. 11.
Cigarette-forming device. S. Laczko. 1,477,370; Dec. 11.
Circuit-breaker system, Automatic reclosing. O. C. Traver. 1,477,395; Dec. 11.
Circuit-breaker system, Automatic reclosing. L. S. Walle. 1,477,401; Dec. 11.
Circuit-controlling device, Centrifugally-operated. M. W. Barrmess. 1,476,790; Dec. 11.
Clamp: *See*—
Dental matrix clamp. Washboard clamp
Hose clamp.
Clamp. A. J. Halvorsen. 1,477,219; Dec. 11.
Clasp: *See*—
Curtain clasp.
Cleaner: *See*—
Pipe cleaner. Sewer cleaner.
Cleaning machine, Boiler-tube. E. J. McCarty. 1,476,901; Dec. 11.
Cleat, Roofing. A. C. Fischer. 1,477,167; Dec. 11.
Closures with seals, Machine for providing. C. O. Berg. 1,477,418; Dec. 11.
Clothespin. E. F. L. Fritz. 1,477,256; Dec. 11.
Clothespin carrier. J. R. McMath. 1,476,991; Dec. 11.
Cloth of animal fiber, Permanent embossment of. H. Enmanaka. 1,476,705; Dec. 11.
Coaches, Inside stairway and folding door for double-deck motor. A. E. Hutt. 1,476,974; Dec. 11.
Coal, Apparatus for loading. J. A. Forsyth. 1,476,882; Dec. 11.
Cock, Ball. I. E. Stump. 1,477,393; Dec. 11.
Cock, Gas. G. Lange. 1,477,133; Dec. 11.
Coiling machine, Strip-. J. B. Moyer. 1,477,228; Dec. 11.
Coin selector. E. V. Hill. 1,477,221; Dec. 11.
Collapsible register. W. D. Redrup. 1,476,921; Dec. 11.
Commutator-cooling apparatus. N. Wilkinson. 1,476,940; Dec. 11.
Compilation, Means employed in. L. S. Crone. 1,476,876; Dec. 11.
Composite plate and making the same. S. C. Hoey. 1,477,551; Dec. 11.
Compressors, Unloader for. B. S. Aikman. 1,477,161; Dec. 11.
Concrete, Deformed reenforcing bar for. C. G. Ohlson and A. E. Jupp. 1,477,378; Dec. 11.
Concrete-mixing machines, Spout for. G. Jaeger. 1,476,892; Dec. 11.
Concrete tie. C. A. Nesbit. 1,476,912; Dec. 11.
Conductor hook. E. W. Morhoff and C. W. Dobelin. 1,476,764; Dec. 11.
Confection-making apparatus, Depositor for. C. P. Speck. 1,477,085; Dec. 11.
Confectious, Polishing machine for coated. W. P. Ranney. 1,476,840; Dec. 11.
Contact spring. B. Raettig. 1,477,527; Dec. 11.
Container. S. M. Walker. 1,477,400; Dec. 11.
Container cap. M. Feldstein. 1,476,700; Dec. 11.
Controlling mechanism. C. E. Hopkins. 1,477,222; Dec. 11.
Control system. F. Jeffrey. 1,476,978; Dec. 11.
Control system. H. D. Murdock. 1,477,377; Dec. 11.
Conveyer. C. J. Walden. 1,476,936; Dec. 11.
Conveyer and driving mechanism therefor. F. E. Arndt. 1,477,234; Dec. 11.
Cooker. C. J. Pugh. 1,476,839; Dec. 11.
Cooler: *See*—
Water cooler.
Corn crusher, Ear-. F. R. Killick. 1,477,502; Dec. 11.
Corn eradicator. A. L. Mallory. 1,477,274; Dec. 11.
Corn tipper, Seed-. C. F. Ludwig. 1,477,180; Dec. 11.
Corset. M. N. Croizier. 1,476,694; Dec. 11.
Counting machine. C. H. Veeder. 1,477,090; Dec. 11.
Coupling device. F. A. Grier, jr. 1,477,440; Dec. 11.
Cotter-pin puller. J. C. De Graff. 1,476,695; Dec. 11.
Cotton and the like, Machine for combing. J. Horridge. 1,476,754; Dec. 11.
Coupling: *See*—
Cultivator-beam coupling.
Crank shafts, Making counterbalanced. L. W. Greve. 1,476,811–12; Dec. 11.
Crate, Trunk. I. J. Sawyer. 1,477,008; Dec. 11.
Crusher: *See*—
Corn crusher.
Crushing and screening device, Gravel. H. S. Earle. 1,476,880; Dec. 11.
Cultivating machine, Power-driven. R. D. and F. A. Valentine. 1,477,398; Dec. 11.
Cultivator-beam coupling. S. K. Dennis. 1,477,324; Dec. 11.
Cultivator, Motor. T. Brown. 1,476,687; Dec. 11.
Cultivator, Surface plow. A. Erven. 1,477,333; Dec. 11.
Current-controlling and static-reducing system. C. A. Sprague. 1,477,017; Dec. 11.
Curtain clasp. J. C. Heerey. 1,476,887; Dec. 11.
Curtain holder. D. M. Sarkisian. 1,477,286; Dec. 11.
Cushioning device. A. B. Ely. 1,477,331; Dec. 11.
Cuspidor, Sanitary. S. Rianda. 1,477,005; Dec. 11.
Cutter: *See*—
Dredge cutter.
Cutter for sheet stock, Gang. H. Z. Cobb. 1,477,108; Dec. 11.
Cutting device. P. Kennedy. 1,477,062; Dec. 11.
Cylinder lap, Automatic adjustable. F. A. Schumann. 1,476,927; Dec. 11.
Cylinders, Platform for timber-preserving. H. E. Austin and J. C. Cook. 1,477,414; Dec. 11.
Demodulating apparatus. H. A. Affel. 1,476,678; Dec. 11.
Denominator and adding machine. M. G. de Simone. 1,476,804; Dec. 11.
Dental alloys or the like, Measuring container for. C. W. Megular. 1,477,226; Dec. 11.
Dental and surgical instruments, Vibratory controlling device for. J. W. Ivory. 1,476,976; Dec. 11.
Dental appliance. H. K. von der Heydt. 1,477,091; Dec. 11.
Dental matrix clamp. J. W. Ivory. 1,476,975; Dec. 11.
Dentifrice. R. A. Kuever. 1,477,177; Dec. 11.
Deodorizer. O. F. Stuerzer. 1,476,930; Dec. 11.
Deodorizing apparatus. B. Newman. 1,477,183; Dec. 11.
Depositing machine. G. S. Guadagni. 1,477,344; Dec. 11.
Design, Movable. C. W. Saalburg. 1,477,080; Dec. 11.
Desk, Artwork. R. C. Woolman. 1,477,409; Dec. 11.
Detachable wheel. L. Rouanet. 1,477,079; Dec. 11.
D handle, Reenforced split. C. J. Welsh. 1,477,092; Dec. 11.
Dial adjuster. C. Pfanstiehl. 1,477,185; Dec. 11.
Die-casting machine. T. E. Murray, jr., and H. S. Holmes. 1,476,765; Dec. 11.
Die press, Automatic. W. Cameron. 1,477,240; Dec. 11.
Differential, Direct-drive. A. C. Culver. 1,477,039; Dec. 11.
Differential mechanism. H. A. Cartwright. 1,477,311; Dec. 11.
Differential mechanism. F. M. Lewis. 1,477,137; Dec. 11.
Direction indicators, Electric control system for vehicle. H. S. Beckman. 1,476,791; Dec. 11.
Dishwashing machine. D. P. Magann. 1,477,068; Dec. 11.
Disintegrating machines or similar working machines, Feeding device for. L. Bartmann. 1,476,868; Dec. 11.
Dispensing device. K. Kiefer. 1,477,365; Dec. 11.
Dispensing machine. C. S. Enright. 1,477,434; Dec. 11.
Display case. A. R. Boal and C. O'Brien. 1,476,872; Dec. 11.
Display device. W. L. Hopkins. 1,477,123; Dec. 11.
Display-fixture pedestal. S. Sobel. Des. 63,507; Dec. 11.
Display stand. A. W. P. Vergeer. 1,476,860; Dec. 11.
Dividing head. O. S. Marshall. 1,477,374; Dec. 11.
Doily, centerpiece, scarf, or similar article. L. Dinkelspiel. Des. 63,459; Dec. 11.
Doll. V. M. Kieffer. Des. 63,467; Dec. 11.
Doll, statuette, or similar article. L. J. Partin. Des. 63,488; Dec. 11.
Door-control apparatus, Emergency. A. Gottschalk. 1,476,711; Dec. 11.
Door forcing device, Grain. W. H. McGann. Re15,729; Dec. 11.
Door, Furnace. F. W. Martin. 1,476,907; Dec. 11.
Door, Metal. A. J. Engman. 1,477,213–14; Dec. 11.

Door-operating mechanism. P. R. Forman. 1,476,703; Dec. 11.
Doors and windows, Operating and locking means for. H. C. Phillips. 1,477,075; Dec. 11.
Draft apparatus, Automatic time-controlled. F. Herron. 1,476,753; Dec. 11.
Draft lifting device, Power-operated. L. E. Roby. 1,476,728; Dec. 11.
Draw spike. T. C. Ekland. 1,476,698; Dec. 11.
Dredge cutter. D. E. Hughes. 1,477,352; Dec. 11.
Drill attachment, Portable. H. W. Grau. 1,477,439; Dec. 11.
Drilling bits and the like, Crane attachment for handling well. B. F. Zeigler. 1,477,095; Dec. 11.
Drilling engine, Rock-. C. A. Hultquist. 1,477,353; Dec. 11.
Drilling rings, Bull-wheel structure for. R. R. Bloss. 1,477,237; Dec. 11.
Drink mixer. D. R. McKillican. 1,477,202; Dec. 11.
Drum or screen drive and supporting means. W. Ferris. 1,476,702; Dec. 11.
Duster, Cotton. O. P. Hobbs and P. A. and H. F. Flanigan. 1,476,889; Dec. 11.
Dynamometer. H. B. Pieper. 1,476,919; Dec. 11.
Dynamometer-control apparatus. L. R. Bogardus. 1,477,474; Dec. 11.
Easel. H. F. Jackson. 1,476,891; Dec. 11.
Eccentric. E. D. Richards. 1,477,521; Dec. 11.
Educational and amusement device. T. M. Degherl. 1,477,322; Dec. 11.
Educational block. L. Fritz. 1,477,255; Dec. 11.
Electric battery elements, Apparatus for making. H. G. Wagner. 1,476,782; Dec. 11.
Electric-current generator. J. A. Smith. 1,476,733; Dec. 11.
Electric furnace. O. A. Colby. 1,477,313; Dec. 11.
Electric furnace. T. A. Reid. 1,477,385; Dec. 11.
Electric iron. H. S. Dodd. 1,477,326; Dec. 11.
Electric machines, Ventilating-duct construction for dynamo-. W. W. Kusterman. 1,476,986; Dec. 11.
Electric machines, Winding-securing means for dynamo-. A. J. Brown. 1,476,947; Dec. 11.
Electric motor. A. C. Gilbert. 1,476,708; Dec. 11.
Electric motor, Air-cooled. M. Stamm, H. Tucker, and M. J. Peltz. 1,476,776; Dec. 11.
Electric motors, Starting switch for. E. E. Taeubert. 1,476,777; Dec. 11.
Electric register. O. A. Knopp. 1,477,367; Dec. 11.
Electric resistance furnace. T. A. Reid. 1,477,384; Dec. 11.
Electric switch. J. B. Downing. 1,477,251; Dec. 11.
Electric switch. A. P. Fahnestock. 1,477,335; Dec. 11.
Electric-switch guard. A. Samborsky. 1,477,389; Dec. 11.
Electrical-instrument contact. M. C. Cosgray. 1,476,800; Dec. 11.
Electrical signaling. L. Cohen and J. O. Mauborgne. 1,476,691; Dec. 11.
Electrical system. K. A. Simmon. 1,477,455; Dec. 11.
Electrical system. N. W. Storer. 1,477,465; Dec. 11.
Electrical system and apparatus. K. A. Simmon. 1,477,456; Dec. 11.
Electrical testing system. A. G. Chapman. 1,476,689; Dec. 11.
Electrolytic cell. R. H. McKee. 1,477,512; Dec. 11.
Elevator: *See*—
Automobile elevator.
Elevator-door lock. J. Girten. 1,476,710; Dec. 11.
Embroidery tool. C. L. Creighton. 1,477,430; Dec. 11.
Engine: *See*—
Drilling engine. Gas engine.
Explosion engine. Internal-combustion engine.
Engine equipment, Internal-combustion-. G. A. Safstrom. 1,477,188; Dec. 11.
Engine exhaust means. W. H. Fulton. 1,476,704; Dec. 11.
Engines, Carburetor for internal-combustion. D. Pordes. 1,477,280; Dec. 11.
Engines, Fuel-passage lock for internal-combustion. M. T. Vandervoort. 1,476,741; Dec. 11.
Engines, Oil pan for internal-combustion. W. Spears. 1,477,016; Dec. 11.
Engines, Piston for. C. E. Hatch. 1,476,751; Dec. 11.
Engines, Scoop attachment for traction. A. Laurle. 1,477,136; Dec. 11.
Engines, Thermostatic controlling means for internal-combustion. H. P. Milker. 1,477,277; Dec. 11.
Envelope. H. L. Tuers. 1,477,157; Dec. 11.
Eraser and pencil holder. J. M. Abrams. 1,477,231; Dec. 11.
Evaporator. C. W. Dyson and M. C. Stuart. 1,477,328; Dec. 11.
Exhaust silencer. A. Combaz. 1,477,315; Dec. 11.
Explosive engine. M. C. Kessler. 1,477,363; Dec. 11.
Explosives, Apparatus for filling containers with. T. M. Davidson. 1,477,040; Dec. 11.
Extension table. H. Mahncke. 1,477,069; Dec. 11.
Fabric cases, Machine for shaping and forming. J. Gaynor. 1,477,437; Dec. 11.
Fan, Pneumatic. H. C. Wallace. 1,477,469; Dec. 11.
Fastening device. F. E. Ald. 1,477,232; Dec. 11.
Feed mechanism, Combined power and hand operated. W. F. Groene. 1,477,480; Dec. 11.
Faucet, Automatic drip. L. P. Meister. 1,477,227; Dec. 11.
Feeder, Animal. M. O. Henderson. 1,477,121; Dec. 11.
Feeding drum. J. Dlesk. 1, 477,211; Dec. 11.
Fence construction. W. B. Tabor. 1,476,853; Dec. 11.
Fencepost, Tubular. P. J. Hindmarsh and J. W. Meaker. 1,477,349; Dec. 11.
Fiber layers, Apparatus for varying the thickness of. J. K. Shaw. 1,477,288; Dec. 11.
File holder. S. Ringer. 1,477,284; Dec. 11.
Filing and indexing equipment. J. T. Quigley. 1,476,920; Dec. 11.
Film-drying apparatus. S. Kind. 1,477,063; Dec. 11.
Film-splicing machine. M. Metzger. Re15,730; Dec. 11.
Filtration. H. S. Thatcher. 1,477,394; Dec. 11.
Finger ring or similar article F. C. Lautz. Des. 63,468–74; Dec. 11.
Fire box. J. C. Jenkins. 1,477,059; Dec. 11.
Fish products, Apparatus for the production of. P. B. Gagg r. 1,476,893; Dec. 11.
Flask-filling machine. E. S. Carman. 1,476,688; Dec. 11.
Flatiron cut-out, Electric-. O. A. Colby. 1,477,314; Dec. 11.
Flour-sifting utensil. M. W. H. Crosskill. 1,476,693; Dec. 11.
Flue-cleaning apparatus. D. N. Tilley. 1,476,854; Dec. 11.
Fluid-circulating system. L. Larsen. 1,477,270; Dec. 11.
Fluid-pressure device. A. N. Bessesen. 1,476,946; Dec. 11.
Fluid-pressure gauge. E. Letsch. 1,476,896; Dec. 11.
Fluids, Apparatus for controlling the maximum flow of. C. S. Collins and L. Roessel. 1,477,244; Dec. 11.
Flycatcher. J. R. Salinas. 1,477,081; Dec. 11.
Fly exterminator. A. S. Liss. 1,477,273; Dec. 11.
Flying machine. T. M. Finley. 1,477,338; Dec. 11.
Food product from skim milk, Making a. L. A. Rogers. 1,477,153; Dec. 11.
Forging pieces by electric-resistance heating, Device for heating. E. Schröder. 1,477,009; Dec. 11.
Form. W. E. Sackner. 1,477,388; Dec. 11.
Foundry work, Manufacture of cores for. E. Kleinschmidt and C. Fohr. 1,477,064; Dec. 11.
Fountain: *See*—
Watering fountain.
Frequency-control system. D. K. Martin. 1,476,721; Dec. 11.
Fuel commingler and burner. H. J. Meyer and C. B. Watson. 1,476,994; Dec. 11.
Fuelizer and preheater. J. C. Youngblood. 1,476,942; Dec. 11.
Fumigating applicator. R. M. Jackson. 1,477,125; Dec. 11.
Furnace: *See*—
Electric furnace. Heating furnace.
Electric resistance furnace.
Furnace control. W. J. Heinritz. 1,477,263; Dec. 11.
Furnaces, Means for producing a sooty vapor in electric. G. M. Little. 1,477,372; Dec. 11.
Furnaces, Resistor-supporting means for electric resistance. H. A. Hands. 1,477,347; Dec. 11.
Furnaces, Safety mechanism for. G. N. Blanchard. 1,477,027; Dec. 11.
Furniture, Convertible. W. J. Kelly. 1,476,981; Dec. 11.
Furniture, Sheet-metal. J. R. Clark. 1,476,798; Dec 11.
Furniture, Swinging article of. R. E. Cross. 1,477,110; Dec. 11.
Fuse plug, Renewable. J. G. Clemens. 1,476,875; Dec. 11.
Fuse, Renewable. J. B. Glowacki. 1,476,964; Dec. 11.
Game appliance. H. B. Smith. 1,477,460; Dec. 11.
Gaming device. J. H. Ewing. 1,477,334; Dec. 11.
Gap, Discharge. C. T. Allcutt. 1,477,305; Dec. 11.
Gap lonizer. Q. A. Brackett. 1,477,308; Dec. 11.
Garbage-receptacle stand. T. W. Watson. 1,477,404; Dec. 11.
Garden tool. E. M. Swartz. 1,477,302; Dec. 11.
Garment. V. Guinzburg. 1,477,218; Dec. 11.
Garment. G. W. Pease. 1,476,831; Dec. 11.
Gas and oil burner, Combination. C. O. Nordensson and L. B. Mettler. 1,476,913; Dec. 11.
Gas engine. M. C. Kessler. 1,477,362; Dec 11.
Gas-heater control, Hydrostatic. R. H. Shadrick. 1,477,083; Dec. 11.
Gasoline-dispensing apparatus. C. E. Tucker. 1,476,856; Dec. 11.
Gasoline recovery. W. Brink. 1,477,103; Dec. 11.
Gate: *See*—
Vehicle gate.
Gate and barrier control mechanism. M. R. Hutchison. 1,477,493; Dec. 11.
Gauge: *See*—
Adjustable gauge. Shaft-alinement gauge.
Fluid-pressure gauge. Wheel gauge.
Geared wrench. J. A. Roberts. 1,477,448; Dec. 11.
Gearing, Differential. H. A. Cartwright. 1,477,310; Dec. 11.
Gearing for motor vehicles, Transmission. N. Bohlin and S. Forner. 1,477,208; Dec. 11.
Gearing, Friction. J. D. Gibbs. 1,477,052; Dec. 11.
Gearing, Rear-axle. G. C. Goode. 1,477,170; Dec. 11.
Gearless differential. E. M. Bell. 1,477,230; Dec. 11.
Generator: *See*—
Electric-current generator. Multifrequency generator.
Generators, Multiple-unit system of engine-driven. A. F. Brotz. 1,476,686; Dec. 11.
Glue, Making waterproof blood. W. A. Drushel. 1,476,805; Dec. 11.

Glycerol, Synthesis of. H. Essex and A. L. Ward. 1,477,113; Dec. 11.
Golf ball. T. W. Miller. 1,477,516; Dec. 11.
Grader, Road. N. W. Finch. 1,476,881; Dec. 11.
Grain-cleaning machine. F. C. Blodgett. 1,477,028; Dec. 11.
Grapes and other fruit, Drying. J. M. MacLachlan. 1,476,761; Dec. 11.
Grate, Underfeed traveling. H. E. Kleffel. 1,477,268; Dec. 11.
Greenhouses, Reenforced rafter for. P. L. McKee. 1,476,990; Dec. 11.
Grinding machine. A. E. Westman. 1,477,158; Dec. 11.
Grinding machines, Rest plate and fulcrum for. A. Pizzino. 1,477,151; Dec. 11.
Grinding mill for rocks, ores, and like material. E. H. Moyle. 1,477,376; Dec. 11.
Gun. H. J. Johnson. 1,476,715; Dec. 11.
Gun carriage having a cranked carriage axle. E. Schneider. 1,476,849; Dec. 11.
Gun sight. E. E. Gregory. 1,476,884; Dec. 11.
Gun with recoiling barrels, Double-barreled machine. C. Gast. 1,477,115; Dec. 11.
Haloolefines, Making. H. Essex and A. L. Ward. 1,477,047; Dec. 11.
Hammer, Trip. H. Roeker. 1,476,923; Dec. 11.
Handle: *See*—
D handle. Shovel handle.
Handle. H. Somerfleck. Des. 63,508; Dec. 11.
Harrow, Leverless disk. S. W. Cady. 1,477,526; Dec. 11.
Harvesting machine, Beet-. S. C. Bene. 1,476,945; Dec. 11.
Hat marking. E. K. Reynolds. 1,477,282; Dec. 11.
Hayrake. C. Pearson. 1,477,382; Dec. 11.
Haystacker. B. H. Tuttle. 1,476,857; Dec. 11.
Headlight for automobiles and analogous vehicles, Dirigible. C. A. Beggs. 1,477,417; Dec. 11.
Heater: *See*—
Hoist heater. Water heater.
Hot-blast heater
Heating device. A. G. Scherer. 1,476,848; Dec. 11.
Heating equipment, Control panel for. O. G. Pouch. 1,477,149; Dec. 11.
Heating furnace, Electric. H. Seibert. 1,477,454; Dec. 11.
Heating furnace, Warm-air. J. Sylvan. 1,476,932; Dec. 11.
Heel and arch support, Combined cushion shoe. A. Cohn. 1,476,690; Dec. 11.
Heel, Reversible cushion shoe. A. Smith. 1,477,191; Dec. 11.
Heels, Securing means for. M. Panian. 1,477,230; Dec. 11.
Helicopter. E. R. Mitton. 1,477,147; Dec. 11.
Hemstitching machines, Yard meter for. L. N. Faubion. 1,477,049; Dec. 11.
Hinge. L. B. Parsons. 1,477,148; Dec. 11.
Hinge. J. Soss. 1,477,193; Dec. 11.
Hinge, Detachable P. Hachmann. 1,476,966; Dec. 11.
Hinge for cooking utensils. J. P. Carlin. 1,476,797; Dec. 11.
Hog holder. R. A. Langenbacher. 1,476,895; Dec. 11.
Hoist heater, Hydraulic-. G. A. Wood. 1,476,748; Dec. 11.
Hook: *See*—
Conductor hook.
Hook. B. A. Still. 1,477,293; Dec. 11.
Horn, Electrically-operated warning. R. W. Maudslay. 1,477,375; Dec. 11.
Horseshoe. F. C. Robertson and P. P. Rooney 1,477,007; Dec. 11.
Horseshoe. C. J. Wunderlich. 1,476,867; Dec. 11.
Hose clamp. B. Morgan. 1,477,071; Dec. 11.
Hose supporter. J. Callan. 1,477,424; Dec. 11.
Hot-blast heater. E. M. Bassler. 1,476,789; Dec. 11.
Hot-water bottle and the like. F. A. Hart. 1,477,261; Dec. 11.
Hub and journal box. H. W. Sanford. 1,477,449; Dec. 11.
Huller: *See*—
Rice huller.
Hydraulic machine. F. Nagler. 1,476,998; Dec. 11.
Hydraulic machines, Lever-locking device for. W. J. Hagman. 1,477,171; Dec. 11.
Hyposulphite manufacture. H. Kühne and F. Bencker. 1,477,130; Dec. 11.
Ice-cream cone. D. Gerber. Des. 63,464; Dec. 11.
Ice-cream freezer. J. F. Miller. 1,477,515; Dec. 11.
Ice-cream-freezing apparatus. J. G. Peck. 1,477,279; Dec. 11.
Ice picks and hooks, Service holder for. C. E. Erickson. Des. 63,460; Dec. 11.
Igniter, Explosive-engine. J. T. Lykens. 1,476,900; Dec. 11.
Implement pole. W. A. Leslie. 1,476,720; Dec. 11.
Indicator: *See*—
Liquid-level indicator. Wheel alignment indicator
Track hazard indicator.
Induction apparatus, Stationary. S. E. Johannesen. 1,477,359; Dec. 11.
Induction apparatus, Stationary. E. D. Treanor. 1,477,396; Dec. 11.
Insulated container, Heat-. P. H. Brainard. 1,477,101; Dec. 11.
Insulator. E. H. Werner. 1,477,406; Dec. 11.
Internal-combustion engine, Rotary. H. L. Weed. 1,476,784; Dec. 11.
Iron: *See*—
Electric iron. Soldering iron.
Irrigation ditcher. R. C. Chattin. 1,477,033; Dec. 11.
Jack: *See*—
Automobile jack.
Jack. W. B. Templeton. 1,477,298; Dec. 11.
Jar opener. W. J. Gallagher. 1,476,707; Dec. 11.
Jewel case. J. Antal. Des. 63,445; Dec. 11.
Jig mechanism. R. A. Riley and H. O. Knapp. 1,477,006; Dec. 11.
Kettle or similar article. J. Friedman. Des. 63,463; Dec. 11.
Key lock. H. Raymond. 1,476,841; Dec. 11.
Kiln, Tunnel. H. M. Robertson. 1,477,152; Dec. 11.
Knife. B. H. Hartley. 1,477,483; Dec. 11.
Knife. C. F. Smith. 1,477,291; Dec. 11.
Knife blades, Handle for detachable. R. Whitcomb and F. Goertz. 1,477,407; Dec. 11.
Knife, Potato. H. Brooks. 1,477,421; Dec. 11.
Knife, Skinning. D. Martin. 1,477,510; Dec. 11.
Knife, Topping. J. J. Bundell. 1,476,846; Dec. 11.
Knitting machines, Web-holder cam mechanism for. F. E. Jones. 1,477,060; Dec. 11.
Knob, Theft-signal door. B. A. North and L. C. Rishel. 1,476,842; Dec. 11.
Labels to the ends of boards, Means for attaching flexible. R. D. Fay and F. R. Shaw. 1,477,336; Dec. 11.
Lace. H. B. Barnum. Des. 63,446; Dec. 11.
Lace. S. H. Page. Des. 63,481–7; Dec. 11.
Lace, Shoe. J. Alvarez. 1,476,677; Dec. 11.
Lamp. H. G. Levy. Des. 63,475; Dec. 11.
Lamp finial. E. C. Ruttenberg. 1,477,523–4; Dec. 11.
Lamp, Miner's carbide. H. Davis. 1,477,431; Dec. 11.
Lamp, Tonneau. N. L. Snorf. 1,476,929; Dec. 11.
Lamps and the like, Device for handling electric. G. E. Hatfield. 1,476,817; Dec. 11.
Land packer. S. K. Dennis. 1,477,323; Dec. 11.
Lantern. H. H. Wolter. Des. 63,547; Dec. 11.
Lasting machine. T. H. Seeidy. 1,477,011. Dec. 11.
Lathe. N. F. Brasacchio. 1,477,102; Dec. 11.
Lathe-tool carriage. C. F. Randolph. 1,477,186; Dec. 11.
Lathe, Valve. E. A. Stack. 1,477,194; Dec. 11.
Laundry-marking pin. G. R. Upham. 1,477,301; Dec. 11.
Laundry stand. J. S. Fiala. 1,477,253; Dec. 11.
Lavatory. L. Schlesinger. 1,477,189; Dec. 11.
Lever controls, Antirattler for. R. J. Loock. 1,477,138; Dec. 11.
Light: *See*—
Pavement light.
Light and tail lamp, Combined stop. H. A. Rippmer. 1,477,285; Dec. 11.
Lighting device, Squib-. A. Krasilnikoff. 1,477,129; Dec. 11.
Lighting fixture. B. F. Klein. 1,477,366; Dec. 11.
Lighting fixture. P. S. Warman. Des. 63,523; Dec. 11.
Lighting fixture P. S. Warman. Des. 63,525; Dec. 11.
Lighting fixture. P. S. Warman. Des. 63,527–8; Dec. 11.
Lighting fixture. P. S. Warman. Des. 63,532–42; Dec. 11.
Lighting-fixture bracket. P. S. Warman. Des. 63,521–2; Dec. 11.
Lighting-fixture bracket. P. S. Warman. Des. 63,524; Dec. 11.
Lighting-fixture bracket. P. S. Warman. Des. 63,529–31; Dec. 11.
Lighting-fixture bracket. P. S. Warman. Des 63,543–4; Dec. 11.
Lighting-fixture candlestick. P. S. Warman. Des. 63,526; Dec. 11.
Lighting-fixture ring. T. Dahl. Des. 63,455; Dec. 11.
Lighting fixtures, Ceiling plate for. P. S. Warman. Des. 63,520; Dec. 11.
Lighting fixtures, Wall bracket for. T. E. Dahl. Des. 63,456; Dec. 11.
Limb, Artificial. S. M. Harrison. 1,477,484; Dec. 11.
Line-winding mechanism. W. Schmid. 1,476,769; Dec. 11.
Link. C. de Talmond. 1,477,475; Dec. 11.
Linoleum, oil cloth, or floor covering. C. M. Post. Des. 63,490–3; Dec. 11.
Liquid-dispensing tank. C. W. Johnson. 1,476,980; Dec. 11.
Liquid-feeding device. W. Sparks. 1,477,015; Dec. 11.
Liquid-level indicator. A. Marone. 1,477,145; Dec. 11.
Liquid-level indicator. A. U. Walter. 1,477,403; Dec. 11.
Liquid phase, Recovering valuable components from a complex. G. B. Burnham. 1,476,873; Dec. 11.
Liquids, Apparatus for purifying. R. C. Turner. 1,477,088; Dec. 11.
Lock: *See*—
Automobile lock. Manifold lock.
Elevator-door lock. Paper lock.
Key lock. Sash lock.
Lock. G. F. Crass. 1,477,318; Dec. 11.
Lock. L. W. Gates. 1,477,342; Dec. 11.
Lock. A. Monti. 1,477,181; Dec. 11.
Lock, Nut. A. W. Lowry. 1,477,509; Dec. 11.
Locomotives, Apparatus for operating booster-supplemented. M. H. Roberts. 1,476,729; Dec. 11.
Loom, Shuttle-changing. E. H. Ryon. 1,476,847; Dec. 11.

Looms, Feeler mechanism for. S. S. Jackson. 1,477,126; Dec. 11.
Looms, Shuttle box for pile-fabric. W. W. Robertson. 1,476,843; Dec. 11.
Lubricant-supplying magazine, Automatic. B. H. Skelly. 1,477,459; Dec. 11.
Lubricating means. D. F. Fesler. 1,477,252; Dec. 11.
Lubricator for tailstock centers. F. Müller. 1,477,182; Dec. 11.
Mandrel. N. E. Gough. 1,477,054; Dec. 11.
Manifold lock. M. P. H. Schroeder. 1,476,924; Dec. 11.
Mat. A. C. Hayden. 1,477,173; Dec. 11.
Measuring machines, Work support for. B. H. Blood. 1,477,206; Dec. 11.
Measuring the flow of fluids, Apparatus for. F. W. Meyer and A. Simon. 1,476,762; Dec. 11.
Merry-go-round. W. T. Peck. 1,476,832; Dec. 11.
Metal bloom and making same. H. W. Lash. 1,477,135; Dec. 11.
Meters, Controlling device for. C. J. Bassler. 1,476,944; Dec. 11.
Miles-per-gallon register. C. W. Hough. 1,477,489; Dec. 11.
Miles-per-gallon instrument. C. W. Hough. 1,477,490; Dec. 11.
Military stock. W. H. Waldron. 1,477,402; Dec. 11.
Milk and mail receptacle. P. Tenerowicz. 1,476,933; Dec. 11.
Milk cans, Lid fastener for. L. E. Drake. 1,477,043; Dec. 11.
Milking machines, Teat cup for. C. M. Anderson. 1,476,788; Dec. 11.
Milling machine. J. J. La Ducer. 1,477,178; Dec. 11.
Mill plate, Attrition-. S. Snyder. 1,477,013; Dec. 11.
Mining, Loading apparatus for. N. D. Levin. 1,476,897; Dec. 11.
Mining machine. T. E. Pray. 1,476,726; Dec. 11.
Mirrors, glass plates, and the like, Bracket for supporting. W. La Hodny. 1,476,758; Dec. 11.
Mixer: *See*—
Drink mixer.
Mixing. D. R. McKillican. 1,477,203; Dec. 11.
Mold: *See*—
Tank mold.
Monorail carrier. M. R. Hutchison. 1,477,494; Dec. 11.
Mop truck. W. S. Finnell. 1,476,961; Dec. 11.
Motor: *See*—
Electric motor.
Motor. J. W. Bishop. 1,476,683; Dec. 11.
Motor starter, Automatic. L. J. Weber and E. C. Gooch. 1,477,405; Dec. 11.
Mounting machine. W. M. Carter. 1,477,032; Dec. 11.
Mounting member. E. H. and R. H. Binns. 1,477,100; Dec. 11.
Multifrequency generator. F. Lowenstein. 1,477,271; Dec. 11.
Nail expansion. H. W. Pleister. 1,476,833–5; Dec. 11.
Nail-expansion method. H. W. Pleister. 1,476,836; Dec. 11.
Nail fastener. H. W. Pleister and J. Karitzky. 1,476,837; Dec. 11.
Needle, Crochet. E. M. Christensen. 1,477,427; Dec. 11.
Nozzle. J. Gilsenan. 1,476,810; Dec. 11.
Nozzle mechanism. S. A. Bisey. 1,477,204; Dec. 11.
Number plate and letter chute, Combined. J. L. Peck. 1,477,074; Dec. 11.
Number plate, rear lamp, and signal apparatus, Illuminated. R. F. Story. 1,477,294; Dec. 11.
Number, Unchangeable motor. L. P. Terhaar. 1,477,466; Dec. 11.
Oar, Bow-facing. A. Larsen. 1,476,987; Dec. 11.
Oil burner. B. W. Hurd. 1,476,970–1; Dec. 11.
Optical system, Mounted. E. Kandler and J. C. Sabel. 1,476,717; Dec. 11.
Ore, Hydrometallurgical treatment of zinc. J. O. Elton and R. B. Caples. 1,477,478; Dec. 11.
Ores, Concentrating. B. H. Dosenbach. 1,477,476; Dec. 11.
Ores, Treating bismuth. E. R. Darling. 1,477,321; Dec. 11.
Orthopedic appliance. C. H. Martin. 1,477,070; Dec. 11.
Oven. G. M. Faulk. 1,477,050; Dec. 11.
Overboot. F. H. Martin. 1,476,826; Dec. 11.
Package-conveying mechanism. R. C. Strout. 1,476,737; Dec. 11.
Package, Yarn. T. Andrew. 1,477,162; Dec. 11.
Packing comminuted material, Apparatus for. A. Johnson. 1,477,358; Dec. 11.
Packing comminuted material, Apparatus for. A. Johnson. 1,477,499; Oct. 11.
Packing rings, Manufacturing one-piece. G. W. Olney. 1,477,379; Dec. 11.
Paint, enamel, etc., Removing. L. C. Moore and W. T. Jackson. 1,476,909; Dec. 11.
Pan: *See*—
Baking pan. Cake pan.
Paper lock. F. Kronenberger. 1,476,822; Dec. 11.
Paper-making machine. A. A. Judd. 1,476,894; Dec. 11.
Paper-making machine. J. W. Vedder and F. W. Lodding. 1,477,020; Dec. 11.
Papers, etc., Device for clamping and holding. F. A. Cellarius. 1,476,951; Dec. 11.
Parachute control. A. A. Barton. 1,477,163; Dec. 11.
Pavement light. M. R. Duffy. 1,476,958; Dec. 11.
Paving block. G. L. Dresser. 1,476,957; Dec. 11.
Pencil-lead sharpener. C. Sonneborn. 1,477,192; Dec. 11.
Purse pencil. F. P. Dwyer. 1,476,697; Dec. 11.
Percolator. N. O. Duncan. 1,476,959; Dec. 11.
Percolator, Electric coffee. F. F. Forshee. 1,477,340; Dec. 11.
Phone index and guide. W. H. Walker. 1,476,743; Dec. 11.
Phonograph cabinet. J. Wolff. Des. 63,546; Dec. 11.
Phonograph speed regulator. M. Victorsohn. 1,477,399; Dec. 11.
Phonographs, Circuit breaker for. J. Janes. 1,477,356; Dec. 11.
Photographic and other purposes, Arc lamp for. B. J. Hall and C. F. G. Thorkelin. 1,477,057; Dec. 11.
Pick, Pneumatic coal. C. C. Hansen. 1,477,259; Dec. 11.
Pictures, Method and means for taking moving. D. W. Griffith. 1,476,885; Dec. 11.
Pile-pulling apparatus. M. D. Riker. 1,477,283; Dec. 11.
Pimiento coring and skin-loosening machine. C. J. Walden. 1,476,937; Dec. 11.
Pin: *See*—
Laundry-marking pin. Safety pin.
Pipe: *See*—
Annealing mastic pipe. Tobacco pipe.
Smoking pipe.
Pipe and in a special form of pipe, Making. F. T. Snyder. 1,476,734; Dec. 11.
Pipe cleaner. F. S. Brown. 1,477,207; Dec. 11.
Pipe fitting. G. J. Von Glahn. 1,476,861; Dec. 11.
Pipes, Apparatus for cutting. P. J. King. 1,476,983; Dec. 11.
Pipes, Device for blowing out oil. J. T. Bryan. 1,477,239; Dec. 11.
Pistol stock, Auxiliary. J. F. Petritsch. 1,477,445; Dec. 11.
Piston packing ring. O. W. Hanson. 1,477,120; Dec. 11.
Piston ring. E. Kottusch. 1,477,368; Dec. 11.
Placer machine, Combination. C. R. Gilbert. 1,477,053; Dec. 11.
Planer, Metal. F. E. Cardullo. 1,476,949; Dec. 11.
Planter. F. J. Anderson, L. H. Cowden, and L. Ericson. 1,477,097; Dec. 11.
Plaster, Corn. C. Beckmann. 1,476,682; Dec. 11.
Plastic Compositions, Means and method for preparing. C. O. Walper. 1,476,938; Dec. 11.
Plate or similar article. P. N. Leyland. Des. 63,476; Dec. 11.
Plow. J. C. Wood. 1,477,022; Dec. 11.
Plow, Gang. C. P. Lee. 1,476,823; Dec. 11.
Plow, Lister. C. G. Strandlund. 1,476,736; Dec. 11.
Plow, Tractor. J. H. Taylor. 1,476,738; Dec. 11.
Polishing machine. G. A. Carlson. 1,477,426; Dec. 11.
Portal construction, Insectproof. M. R. Hutchison. 1,477,497; Dec. 11.
Portal, Insectproof. M. R. Hutchison. 1,477,496; Dec. 11.
Potassium bicarbonate from potassium-chloride solution, Electrolytic production of R. Suchy. 1,477,086; Dec. 11.
Power-transmitting mechanism. G. S. Reynolds. 1,476,766; Dec. 11.
Praying or confessional stand. S. Duca. 1,477,327; Dec. 11.
Press: *See*—
Tile press.
Press. M. H. Ballard. 1,476,680; Dec. 11.
Pressing machine, Shirt. C. L. Braley. Re15,728; Dec. 11.
Printer's chase. A. C. Evans. 1,477,046; Dec. 11.
Printing developing, and fixing apparatus. R. J. Frederickson. 1,476,883; Dec. 11.
Printing machine. L. E. Morrison. 1,476,829; Dec. 11.
Printing machines, Platen for. C. A. Kellogg. 1,477,128; Dec. 11.
Printing plate. F. De Minico. 1,476,803; Dec. 11.
Printing presses, Counterbalanced tape delivery for. J. I. Haase and E. A. Metz. 1,477,441; Dec. 11.
Propeller. G. H. Corporon. 1,477,247; Dec. 11.
Propeller, Boat. R. R. Whiting. 1,477,200; Dec. 11.
Protective device. C. T. Allcutt. 1,477,303–4; Dec. 11.
Protective device. C. T. Allcutt. 1,477,306–7; Dec. 11.
Puddling. H. D. Hibbard. 1,477,348; Dec. 11.
Puller: *See*—
Cotter-pin puller.
Pulley, Clothesline. H. Adelmann. 1,476,787; Dec. 11.
Pulleys, Bracket for mounting. G. R. Northrup. 1,477,229; Dec. 11.
Pulleys, gears, etc., Lubricating means for loose. H. F. Gade. 1,477,051; Dec. 11.
Pump. W. H. Hitchcock. 1,476,888; Dec. 11.
Pump. C. H. Snooner. 1,477,462; Dec. 11.
Pump. H. C. Thrift. 1,477,300; Dec. 11.
Pump, Compound hand air-compressing. T. C. Vandeberg. 1,476,858; Dec. 11.
Pump cylinder and valves therefor. H. J. Berry. 1,476,794; Dec. 11.
Pump, Oil-well. J. S. Feliz. 1,477,217; Dec. 11.
Pumping mechanism. J. G. Vincent. 1,476,781; Dec. 11.
Puzzle. F. Larabee. 1,477,371; Dec. 11.
Rack. W. W. Bassett. 1,477,416. Dec. 11.
Radiator cap. J. E. Simpson. Des. 63,500; Dec. 11.
Radio modulation system. F. Conrad. 1,477,316; Dec. 11.
Radio receiving system. E. F. W. Alexanderson. 1,477,413; Dec. 11.

Rail anchor. W. H. De Busk. 1,476,802; Dec. 11.
Railway tie and antispreading device. W. Ward, sr. 1,477,470; Dec. 11.
Railways, etc., Guard and signal for. A. T. Gookin. 1,477,438; Dec. 11.
Railways, Safety device for. M. K. Healy. 1,477,486; Dec. 11.
Rat trap. W. Danley. 1,477,320; Dec. 11.
Reentering device. H. Kettler. 1,477,364; Dec. 11.
Recovery apparatus. L. R. Decker. 1,477,041; Dec. 11.
Refrigerator. A. T. Kasley. 1,477,127; Dec. 11.
Refrigerator, Counter. J. Schulde. 1,476,925; Dec. 11.
Refrigerator, Showcase. H. L. Hussmann. 1,476,972–3; Dec. 11.
Refrigerator, Showcase. J. Schulde. 1,476,926; Dec. 11.
Register: *See*—
Collapsible register. Miles-per-gallon register.
Electric register.
Register or calculating machine, Cash. E. Breitling. 1,477,420; Dec. 11.
Registering, Method of and appliance for. C. R. Smith. 1,477,392; Dec. 11.
Regulating mechanism. F. H. Brown. 1,476,795; Dec. 11.
Regulator: *See*—
Automobile spring regulator.
Phonograph speed regulator.
Reproducers, Stylus mounting for. C. Scrabic. 1,476,850; Dec. 11.
Resilient wheel. J. A. Stable. 1,477,292; Dec. 11.
Retort. H. Howard. 1,477,491; Dec. 11.
Reverser, Automatic. S. and R. O. Berg. 1,476,793; Dec. 11.
Rice huller. D. J. Hayes. 1,477,262; Dec. 11.
Rim, Demountable. E. M. Sisley. 1,477,290; Dec. 11.
Rim tool and wheel puller. H. W. Crane. 1,476,692; Dec. 11.
Rims, Locking device for wheel. W. A. Clench. 1,476,952; Dec. 11.
Ring: *See*— Piston packing ring. Piston ring.
Ring. C. E. Miller, jr. Des. 63,479; Dec. 11.
Rings and ring findings, Manufacturing finger. M. Simson. 1,477,458; Dec. 11.
Rings, Manufacturing. M. Simson. 1,477,457; Dec. 11.
Rings, Method and apparatus for covering. B. A. Evans and I. Zwisler. 1,476,807; Dec. 11.
Rivet connections, Device for producing. H. Junkers. 1,476,756; Dec. 11.
Rock drills, Rotation release for. H. A. Guiley. 1,476,814; Dec. 11.
Rocker arm. J. F. Kytlica. 1,477,269; Dec. 11.
Rotary switch. A. Nelson. 1,476,911; Dec. 11.
Rubber goods, Apparatus for use in the manufacture of. T. Sloper. 1,477,391; Dec. 11.
Safety pin. N. L. Weare. 1,477,199; Dec. 11.
Sash lock. W. Holstein. 1,477,265; Dec. 11.
Sash operator, Automatic storm-. C. W. Knight. 1,476,821; Dec. 11.
Saw guide, Undercutting-. F. Halvorsen. 1,476,815; Dec. 11.
Saw, Portable power cut-off. T. Finlayson. 1,477,114; Dec. 11.
Sawhorse, Collapsible. M. J. Topp. 1,476,855; Dec. 11.
Scaffolding for centering and the like. J. R. Shore. 1,477,190; Dec. 11.
Scales, Advertising device for weighing. W. J. Vandercar. Re15,731; Dec. 11.
Scarfpins and the like, Antiloss device for. E. Smith. 1,477,461; Dec. 11.
Screens, Making mottled -color. A. W. Carpenter. 1,476,874; Dec. 11.
Screw cap. W. J. Peelle. 1,476,918; Dec. 11.
Sewer-basin head. J. J. Fagan. 1,477,435; Dec. 11.
Sewer cleaner. H. A. Howard. 1,476,969; Dec. 11.
Sewing-machine attachment. B. C. Penn. 1,477,003; Dec. 11.
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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Allan & Gray, New York, N. Y. Cardboard and fine correspondence paper and envelopes. 177,589; Dec. 18.
Altman, B., & Co., New York, N. Y. Children's dresses. 177,536; Dec. 18; Serial No. 184,051; published Oct. 9, 1923.
American Fork & Hoe Company, The, Cleveland, Ohio. Reels for hose and the like. 177,387; Dec. 18; Serial No. 181,714; published Oct. 2, 1923.
American Lead Pencil Company, New York, N. Y. Pencil clips. 177,535; Dec. 18; Serial No. 182,462; published Oct. 2, 1923.
American Manufacturers Foreign Credit Underwriters, Inc., New York, N. Y. Periodical published monthly. 177,295; Dec. 18; Serial No. 175,120; published Oct. 2, 1923.
American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope, cord, and twine. 177,600; Dec. 18.
American Products Company, The. (See Mills Brothers Company.)
American Safety Razor Corporation, Brooklyn, N. Y. Razors, razor blades. 177,377; Dec. 18; Serial No. 181,101; published Oct. 2, 1923.
American Writing Paper Company, Holyoke, Mass. Offset paper. 177,591–2; Dec. 18.
Andrews, H. P., Paper Company, New York, N. Y. Bond paper. 177,601–2; Dec. 18.
Appel-Hall, Philadelphia, Pa. Sweaters, cardigan jackets, bathing suits. 177,576; Dec. 18; Serial No. 184,054; published Oct. 9, 1923.
Arata, John B., Jr., Inc., Philadelphia, Pa. Candies. 177,352; Dec. 18; Serial No. 180,515; published Sept. 11, 1923.
Arch Narrow Fabric Company, Auburn, R. I. Braid, braided tapes, elastic laces, etc. 177,396; Dec. 18; Serial No. 181,470; published Oct. 2, 1923.
Arrow Paint & Wall Paper Company, Denver, Colo. Wall paper. 177,527; Dec. 18; Serial No. 182,643; published Sept. 11, 1923.
Antol Scientific Laboratories. (See Cerny, George A.)
Automatic Transportation Co., The, Buffalo, N. Y. Electrically-operated tractors and locomotives. 177,579; Dec. 18.
Bab, Inc., New York, N. Y. Ladies', misses', and children's knitted dresses, suits, waists, blouses, etc. 177,568; Dec. 18; Serial No. 176,532; published Aug. 21, 1923.
Bahnsen, C., & Co., Inc., New York, N. Y. Bolivia coatings in the piece. 177,303–4; Dec. 18; Serial Nos. 172,461–2; published Sept. 25, 1923.
Bamberger, L., & Co., Newark, N. J. Women's dresses. 177,308; Dec. 18; Serial No. 170,360; published Oct. 2, 1923.
Barber, A. H., & Co., Chicago, Ill., and Plymouth and Dodgeville, Wis. Cheese. 177,383; Dec. 18; Serial No. 182,040; published Oct. 2, 1923.
Barber, A. H., & Co., Chicago, Ill., and Plymouth and Dodgeville, Wis. Cheese. 177,384; Dec. 18; Serial No. 182,042; published Oct. 2, 1923.
Barr Manufacturing Corporation, Tyrone, Pa. Perfumes, face powder, toilet water, cold cream, etc. 177,469; Dec. 18; Serial No. 176,107; published Sept. 25, 1923.
Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 177,376; Dec. 18; Serial No. 181,165; published Oct. 9, 1923.
Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 177,566–7; Dec. 18; Serial Nos. 176,593–4; published Oct. 9, 1923.
Beaver, L. S., Vinita, Okla. Hair tonic. 177,457; Dec. 18; Serial No. 178,374; published Sept. 25, 1923.
Bell Company, The, Worcester, Mass. Woolen, worsted piece goods. 177,324; Dec. 18; Serial No. 179,769; published Sept. 18, 1923.
Bell Syndicate, Inc., The, New York, N. Y. Series of cartoons. 177,343; Dec. 18; Serial No. 181,166; published Sept. 25, 1923.
Berea Milling Co., The, Berea, Ohio. Milling products. 177,504; Dec. 18; Serial No. 145,933; published Apr. 3, 1923.
Berg, Charles F., Portland, Oreg. Hosiery. 177,348; Dec. 18; Serial No. 180,833; published Oct. 2, 1923.
Berman, Gustave S., New York, N. Y. Umbrellas and parasols. 177,349; Dec. 18; Serial No. 180,834; published Oct. 2, 1923.
Bickford Laboratories Company, The, Akron, Ohio. Food-flavoring extracts and table sirups. 177,607. Dec. 18.
Birnbaum, Bernard, Brookline, Mass. Women's and children's coats. 177,584; Dec. 18.
Black Bros. Flour Mills, Beatrice, Nebr. Wheat flour. 177,497; Dec. 18; Serial No. 182,396; published Oct. 2, 1923.
Blackman & Blackman, New York, N. Y. Catheters, ear and ulcer syringes, finger cots, etc. 177,320; Dec. 18; Serial No. 179,986; published Sept. 4.
Blue Ridge Manufacturing Company, Incorporated. Alexandria, Va. Work shirts, trousers, and overalls. 177,595; Dec. 18.
Blum & Bergeron, Houma, La. Dried shrimp. 177,341; Dec. 18; Serial No. 181,168; published Oct. 2, 1923.
Bob-o-Link Products Co. (See Schwartz, Paul H.)
Bowyer, Ambrose, Chicago, Ill. Publications to be published at irregular intervals. 177,333; Dec. 18; Serial No. 181,669; published Sept. 25, 1923.
Bragdon, Lord & Nagle Co., The, New York, N. Y. Weekly publication. 177,372; Dec. 18; Serial No. 181,726; published Oct. 2, 1923.
Brune, Pottberg & Co., New York, N. Y. Cotton piece goods. 177,484; Dec. 18; Serial No. 183,192; published Sept. 25, 1923.
Brune, Pottberg & Co., New York, N. Y. Cotton piece goods. 177,488; Dec. 18; Serial No. 183,188; published Sept. 25, 1923.
Brune, Pottberg & Co., New York, N. Y. Cotton piece goods. 177,489; Dec. 18; Serial No. 193,191; published Sept. 25, 1923.
Byrnes, Eugene, Carmel, Calif. Skates, baseballs, bats, etc. 177,446; Dec. 18; Serial No. 182,130; published Oct. 2, 1923.
Cantrell & Cochrane, Limited, Dublin, Ireland. Beverages sold as soft drinks. 177,370; Dec. 18; Serial No. 181,672; published Oct. 2, 1923.
Canvas Products Company, St. Louis, Mo. Grass catchers. 177,394; Dec. 18; Serial No. 181,376; published Oct. 2, 1923.
Caplan, Joseph, doing business as Laforé Perfumery Co., New York, N. Y. Lemon cream, brilliantine, freckle cream, rouge, etc. 177,294; Dec. 18; Serial No. 175,131; published Sept. 25, 1923.
Carl Company, The, Schenectady, N. Y. Cotton piece goods, linen piece goods, and toweling. 177,366; Dec. 18; Serial No. 181,813; published Sept. 25, 1923.
Carley, Leonard R., Watertown, Conn. Varnish stains, ready-mixed paste, or dry fillers and paints. 177,511; Dec. 18; Serial No. 160,588; published Oct. 2, 1923.
Cerny, George A., doing business as Autol Scientific Laboratories, Chicago, Ill. Body polish, top dressing, and paint enamel. 177,393; Dec. 18; Serial No. 181,338; published Oct. 2, 1923.
Ce-Wede Laboratory. (See National Physicians Supply Company.)
Chapin & Gould Paper Company, Springfield, Mass. Writing paper and mailing envelopes. 177,519; Dec. 18; Serial No. 169,052; published Dec. 12, 1922.
Chicago Beverage Co., Chicago, Ill. Beverages sold as soft drinks and sirups used in the preparation of same. 177,575; Dec. 18; Serial No. 184,712; published Oct. 9, 1923.
Chicago Paper Company, Chicago, Ill. Writing, printing, etc., paper. 177,522; Dec. 18; Serial No. 171,727; published Oct. 2, 1923.
Chipman Knitting Mills, Easton, Pa. Hosiery. 177,609; Dec. 18.
Cohn, Alfred E., San Francisco, Calif. Overalls, pants, children's play suits, and shirts. 177,586; Dec. 18.
Consolvo Manufacturing Co., Inc., South Norfolk, Va. Paint and varnish removers. 177,385; Dec. 18; Serial No. 181,475; published Oct. 2, 1923.
Cooper, Milton G. Dry Goods Co., Los Angeles, Calif. Dresses, aprons, hosiery, etc. 177,347; Dec. 18; Serial No. 180,844; published Oct. 2, 1923.
Corn Products Refining Company, New York, N. Y. Sirup for food purposes. 177,329–32; Dec. 18; Serial Nos. 178,593–6; published Oct. 2, 1923.
Crippen & Reid, Baltimore, Md. Boys' suits. 177,549; Dec. 18; Serial No. 183,198; published Oct. 9, 1923.
Crown Bottling Works. (See May, C. Edward.)
Crystal Chemical Co. (See Thompson, Zola.)
Curtis, A. L., Atlanta, Ga. Internal and injective remedies for gonorrhea. 177,357; Dec. 18; Serial No. 181,981; published Sept. 25, 1923.
Dabner, Jess E., Petaluma, Calif. Transparent dressing for painted and varnished surfaces and glass. 177,537; Dec. 18; Serial No. 183,873; published Oct. 2, 1923.
Dalley, F. F., Company, Inc., Buffalo, N. Y. Shoe-shining kits. 177,485; Dec. 18; Serial No. 183,201; published Oct. 2, 1923.
Davies, Rose, & Co., Ltd., Boston, Mass. Flavoring for making beverages. 177,426; Dec. 18; Serial No. 156,480; published Oct. 2, 1923.
Davis & Lawrence Co., New York, N. Y. Toilet and vanishing creams. 177,367; Dec. 18; Serial No. 181,821; published Sept. 25, 1923.
Defiance Dairy Products Company, The, Defiance, Ohio. Evaporated milk. 177,299; Dec. 18; Serial No. 174,129; published Oct. 2, 1923.
Dental Protective Supply Company, Chicago, Ill. Dental alloys and cements. 177,540; Dec. 18; Serial No. 183,519; published Oct. 2, 1923.

Detroit Dental Manufacturing Company, Detroit, Mich. Dental tools, instruments, and supplies. 177,386; Dec. 18; Serial No. 181,592; published Oct. 2, 1923.

Diamond State Fibre Company, Elsmere, Del., and Bridgeport, Pa. Gear blanks and gear wheels. 177,542; Dec. 18; Serial No. 183,440; published Oct. 2, 1923.

Diamond State Fibre Company, Elsmere, Del., and Bridgeport, Pa. Gear blanks and gear wheels. 177,543; Dec. 18; Serial No. 183,438; published Oct. 2, 1923.

Diem & Wing Paper Co., The, Cincinnati, Ohio. Wrapping paper. 177,555; Dec. 18; Serial No. 183,056; published Oct. 2, 1923.

Donley Brothers Company, The, Cleveland, Ohio. Drain-pipe traps for refrigerators and bathtubs, slop sinks, etc. 177,408; Dec. 18; Serial No. 178,829; published Oct. 2, 1923.

Doptoglou Bros. of New York, New York, N. Y. Cotton piece goods. 177,465; Dec. 18; Serial No. 177,079; published Sept. 25, 1923.

Dorner Brothers Company, The, Cincinnati, Ohio. Hosiery. 177,574; Dec. 18; Serial No. 184,068; published Oct. 9, 1923.

Duplan Silk Corporation, New York, N. Y. Silk piece goods. 177,477; Dec. 18; Serial No. 183,262; published Sept. 25, 1923.

Eastern States Farmers' Exchange, Springfield, Mass. Mixed feed for cattle. 177,379; Dec. 18; Serial No. 182,142; published Oct. 2, 1923.

Economy Wiping Materials Co., Inc., New York, N. Y. Pieces of fabric used for polishing, cleaning, or dusting. 177,436; Dec. 18; Serial No. 182,468; published Oct. 2, 1923.

Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. 177,342; Dec. 18; Serial No. 181,177; published Sept. 25, 1923.

Evans, S. W., & Son, Philadelphia, Pa. Umbrella and parasol ribs. 177,474; Dec. 18; Serial No. 185,009; published Oct. 2, 1923.

Evans, S. W., & Son, Philadelphia, Pa. Umbrella and parasol ribs. 177,476; Dec. 18; Serial No. 185,009; published Oct. 2, 1923.

Farley Harvey Company, The, Boston, Mass. Dry goods. 177,486; Dec. 18; Serial No. 183,205; published Sept. 25, 1923.

Fenton, Arthur G., doing business as The Fenton Wholesale Co., Rochester, N. Y. Flavoring extracts, spices, celery seed, etc. 177,577; Dec. 18; Serial No. 177,966; published Oct. 2, 1923.

Filene's, Wm., Sons Company, Boston, Mass. Trunks, suitcases, pocketbooks, etc. 177,580; Dec. 18.

Finn, J. A., & Company, New York, N. Y. Linen piece goods. 177,461; Dec. 18; Serial No. 183,207; published Sept. 25, 1923.

Firth Carpet Company, The, New York, and Firthcliffe, N. Y. Chenille rugs. 177,487; Dec. 18; Serial No. 183,142; published Sept. 25, 1923.

Flamingo Sugar Mills, Inc., Philadelphia, Pa. Sugar. 177,371; Dec. 18; Serial No. 181,687; published Oct. 2, 1923.

Flatopn Binder Company. (See Plushkell, August B.)

Florida Products Company, Inc., New York, N. Y. Beverages sold as soft drinks. 177,435; Dec. 18; Serial No. 182,506; published Oct. 2, 1923.

Fordyce & Jackson, Bedford, Ind. Chemical preparation for application to windshields. 177,412; Dec. 18; Serial No. 180,756; published Sept. 25, 1923.

Franklin, Charles, Boston, Mass. Sweaters and bathing suits. 177,321; Dec. 18; Serial No. 180,117; published Oct. 2, 1923.

Friedman Bros. & Sons Neckwear Co. Inc., New York, N. Y. Ties, cravats. 177,550; Dec. 18; Serial No. 183,144; published Oct. 9, 1923.

Gagnier, George E., doing business as Gagnier Trimming Supply Co., Detroit, Mich. Fiber board and automobile panel material. 177,552–3; Dec. 18; Serial Nos. 183,107–8; published Oct. 2, 1923.

Garred & Krause Drug Co., Walla Walla, Wash. Photographs. 177,337; Dec. 18; Serial No. 181,390; published Oct. 2, 1923.

Gaudé, Francis J., Port Allen, La. Series of cartoons. 177,346; Dec. 18; Serial No. 181,069; published Oct. 2, 1923.

Gebs Boot Shop, Pittsburgh, Pa. Boots, shoes, and slippers, hosiery. 177,409; Dec. 18; Serial No. 180,174; published Oct. 2, 1923.

Ger-Le Laboratories, Chicago, Ill. Toilet articles. 177,464; Dec. 18; Serial No. 176,403; published Sept. 25, 1923.

Giant Umbrella Co. (See Grossman, Jacob.)

Gile & Jenks, Salem, Oreg. Dried fruits. 177,375; Dec. 18; Serial No. 180,858; published Sept. 25, 1923.

Glenco Products Company, Quincy, Ill. Mops. 177,468; Dec. 18; Serial No. 176,175; published Oct. 2, 1923.

Glidden Company, The, Cleveland, Ohio. Liquid varnish. 177,516; Dec. 18; Serial No. 183,378; published Oct. 2, 1923.

Godel, E., & Sons, Peoria, Ill. Lard. 177,418; Dec. 18; Serial No. 165,586; published Oct. 2, 1923.

Goepel, Charles H., jr., Philadelphia, Pa. Hosiery. 177,551; Dec. 18; Serial No. 183,110; published Oct. 2, 1923.

Goerdeler, Pearl P., Brooklyn, N. Y. Dolls. 177,350; Dec. 18; Serial No. 180,536; published Oct. 2, 1923.

Gold Buckle Association, East Highland, Calif. Citrous fruits. 177,558; Dec. 18; Serial No. 173,643; published Sept. 25, 1923.

Goldstein, Al., New York, N. Y. Men's shirts. 177,581; Dec. 18.

Golitsky, Posner & Hock, Bayonne, N. J. Clothing 177,509; Dec. 18; Serial No. 153,807; published May 16, 1922.

Gong Bell Manufacturing Company, The, East Hampton, Conn. Toys. 177,421; Dec. 18; Serial No. 165,190; published Oct. 2, 1923.

Good-Grape Company, The, Chattanooga, Tenn. Beverages and compounds for making same. 177,327; Dec. 18; Serial No. 178,720; published Oct. 2, 1923.

Goodbar, Octavia W., doing business as Octavia Walton, Boston, Mass. Greeting cards, sheets, and folders. 177,414; Dec. 18; Serial No. 166,595; published Sept. 25, 1923.

Gorham Manufacturing Company, Providence, R. I. Pipes, cigar and cigarette holders, cases, boxes, etc. 177,429; Dec. 18; Serial No. 152,246; published Sept. 25, 1923.

Gotham Corporation, The, New York, N. Y. Preparations for the prevention and treatment of obesity. 177,358; Dec. 18; Serial No. 181,887; published Sept. 25, 1923.

Graf, William, doing business as Southwark Beverage & Products Co., Philadelphia, Pa. ; Malt sirups for beverage purposes. 177,334; Dec. 18; Serial No. 181,443; published Oct. 2, 1923.

Graham Co. Inc., The, New York, N. Y. Mixed nuts. 177,597; Dec. 18.

Grant, W. T., Company, New York, N. Y. Safety pins. 177,390; Dec. 18; Serial No. 181,829; published Oct. 2, 1923.

Grant, Wm., & Sons, Ltd., Dufftown, Scotland. Scotch whisky. 177,462; Dec. 18; Serial No. 177,222; published Oct. 2, 1923.

Grant, Wm., & Sons, Ltd., Dufftown, Scotland. Scotch whisky. 177,467; Dec. 18; Serial No. 177,221; published Oct. 2, 1923.

Grauert, Ralph W., New York, N. Y. Gold and bronze leaf. 177,395; Dec. 18; Serial No. 181,391; published Oct. 2, 1923.

Greco, Felix V., doing business as The Hairvita Hair Tonic Co., Philadelphia, Pa. Liquid hair tonic. 177,450; Dec. 18; Serial No. 182,051; published Sept. 25, 1923.

Grossman, Jacob, doing business as Giant Umbrella Co., New York, N. Y. Umbrellas and parasols. 177,569; Dec. 18; Serial No. 176,341; published Sept. 11, 1923.

Gruen Watch Company, The, Cincinnati and Time Hill, Ohio. Watches, watchcases, and watch movements. 177,596; Dec. 18.

Guiterman Bros., St. Paul, Minn. Clothing for sport, work, and other wear. 177,556; Dec. 18; Serial No. 173,354; published Oct. 2, 1923.

Gunn Furniture Company, The, Grand Rapids, Mich. Counters, cafeteria tables, office tables, dressers, etc. 177,564; Dec. 18; Serial No. 175,552; published Oct. 2, 1923.

Hadfield, John W., Co., Philadelphia, Pa. Hosiery. 177,403; Dec. 18; Serial No. 179,791; published Oct. 9, 1923.

Haft, Morris W., & Bros. Inc., New York, N. Y. Ladies' outer garments. 177,554; Dec. 18; Serial No. 183,064; published Oct. 2, 1923.

Hairvita Hair Tonic Co. (See Greco, Felix V.)

Hanlon & Goodman Co., New York, N. Y. Paint, varnish, and calcimine brushes. 177,326; Dec. 18; Serial No. 179,268; published Oct. 2, 1923.

Hanselman Candy Company, Kalamazoo, Mich. Ice cream. 177,399; Dec. 18; Serial No. 159,580; published Oct. 2, 1923.

Havana Cigar and Tobacco Factories, Ltd., New York, N. Y. Cigars. 177,459; Dec. 18; Serial No. 177,970; published Oct. 2, 1923.

Havana Cigar and Tobacco Factories, Ltd., New York, N. Y. Cigars. 177,461; Dec. 18; Serial No. 177,969; published Oct. 2, 1923.

Hayes & Armstrong, Mineral Wells, Tex. Furniture polish. 177,548; Dec. 18; Serial No. 183,219; published Oct. 2, 1923.

Hecker-Jones-Jewell Milling Company, New York, N. Y. Wheat flour. 177,530; Dec. 18; Serial No. 182,807; published Oct. 2, 1923.

Hercules Knitting Co., Milwaukee, Wis. Sweater coats, knitted caps, woolen hosiery, etc. 177,410; Dec. 18; Serial No. 180,120; published Oct. 2, 1923.

Hertz, Robert W., Indianapolis, Ind. Cartoons for publication in newspapers, magazines, etc. 177,296; Dec. 18; Serial No 174,900; published Oct. 2, 1923.

Hickman, Alma P., Joplin, Mo. Cloth and stockinet dolls. 177,478; Dec. 18; Serial No. 183,382; published Oct. 2, 1923.

Highland Milling Company, Highland, Ill. Wheat flour. 177,572; Dec. 18; Serial No. 177,740; published Oct. 2, 1923.

Hillsdale Baking Company, Hillsdale, Mich. Bread. 177,442–3; Dec. 18; Serial Nos. 182,149–50; published Oct. 2, 1923.

Ho-Jay Corporation, Rochester, N. Y. Beverages and sirups used in making same. 177,493; Dec. 18; Serial No. 182,812; published Oct. 2, 1923.

Ho-Jay Corporation, Rochester, N. Y. Beverage coolers. 177,531; Dec. 18; Serial No. 182,811; published Oct. 2, 1923.

Hughes & Bradley Co., Philadelphia, Pa. Woven silk undergarments. 177,565; Dec. 18; Serial No. 175,450; published Oct. 2, 1923.

Hughes, Raleigh J., Greensboro, N. C. Building plans and designs. 177,353; Dec. 18; Serial No. 181,992; published Oct. 2, 1923.

Ice Poles, Inc., Boston, Mass. Iced confections. 177,515; Dec. 18; Serial No. 164,760; published Oct. 2, 1923.

Indiaroot Company, Chicago, Ill. Hair tonic. 177,359; Dec. 18; Serial No. 181,896; published Sept. 25, 1923.

Industrial Engineering Research Co., New York, N. Y. Adhesive printed labels. 177,345; Dec. 18; Serial No. 181,076; published Sept. 25, 1923.

Instituto Nazionale Medico Farmacologico, Rome, Italy. Preparation for hypodermic use. 177,305; Dec. 18; Serial No. 171,848; published Sept. 18, 1923.

International Salt Company, Inc., New York, N. Y. Table salt. 177,354; Dec. 18; Serial No. 181,948; published Sept. 25, 1923.

International Salt Company, Inc., New York, N. Y. Table salt. 177,361; Dec. 18; Serial Nos. 181,947–8; published Sept. 25, 1923.

International Western Electric Company, Incorporated, New York, N. Y. Title of a quarterly publication. 177,490; Dec. 18; Serial No. 182,973; published Oct. 2, 1923.

International Worsted Mills, Methuen, Mass., and New York, N. Y. Textile fabrics. 177,482; Dec. 18; Serial No. 183,214; published Sept. 25, 1923.

Inter-State Oil Company, Kansas City, Kans. Lubricating oils and greases. 177,503; Dec. 18; Serial No. 139,971; published Oct. 2, 1923.

Ivins', J. S., Son, Inc., Philadelphia, Pa. Cookies, cakes, and crackers. 177,365; Dec. 18; Serial No. 181,749; published Oct. 2, 1923.

Jackson, Genevieve, Inc., Burbank, Calif. Cookies. 177,604; Dec. 18.

Jath's Camphorah Company, Omaha, Nebr. Medicinal compound. 177,292; Dec. 18; Serial No. 179,044; published Oct. 16, 1923.

Jet & Wood Mercantile Company, The, Wichita, Kans. Canned goods, spices, table sirups, etc. 177,458; Dec. 18; Serial No. 178,253; published Oct. 2, 1923.

Johnson Motor Co., South Bend, Ind. Outboard internal-combustion motors for small craft. 177,544; Dec. 18; Serial No. 183,385; published Oct. 2, 1923.

Jones, F. L., Co., Bangor, Me. Crackers and biscuits. 177,432; Dec. 18; Serial No. 117,980; published Sept. 25, 1923.

Journeymen Barbers' International Union of America, Indianapolis, Ind. Magazines, calendar cards, etc. 177,293; Dec. 18; Serial No. 175,247; published Oct. 2, 1923.

Kahlor Flour Mills Company, St. Louis, Mo. Wheat flour. 177,496; Dec. 18; Serial No. 182,419; published Oct. 2, 1923.

Kahn, Emil, doing business as E. Kahn & Company, Chicago, Ill. Potatoes. 177,336; Dec. 18; Serial No. 181,640; published Oct. 2, 1923.

Kant-Foul Spark Plug Company, Topeka, Kans. Spark plugs. 177,593; Dec. 18.

King Lockwood Co., Bristol, Tenn. Overalls and coats. 177,532; Dec. 18; Serial No. 182,827; published Oct. 2, 1923.

Kings County Packing Company, Armona, Calif. Fresh and canned fruits. 177,594; Dec. 18.

Klein, L., Inc., Chicago, Ill. Wheat flour, canned fruits, vegetables, etc. 177,561; Dec. 18; Serial No. 174,310; published Sept. 18, 1923.

Klein, Adolf J., doing business as Sheik Toilet Products Company, Chicago, Ill. Hair dressing. 177,463; Dec. 18; Serial No. 177,444; published Sept. 25, 1923.

Knopf, Alfred A., Inc., New York, N. Y. Completely-printed books. 177,307; Dec. 18; Serial No. 170,653; published Sept. 25, 1923.

Kolbert, Edward, & Sons, New York, N. Y. Fur collars and cuffs. 177,500; Dec. 18; Serial No. 182,248; published Oct. 2, 1923.

Kranenburg, Firma R., Groningen, Netherlands. Substitutes for white lead. 177,533; Dec. 18; Serial No. 182,977; published Oct. 2, 1923.

L. & M. System Clothes, Inc., New York, N. Y. Overcoats and suits. 177,404; Dec. 18; Serial No. 179,733; published Oct. 9, 1923.

Laclede-Christy Clay Products Company, St. Louis, Mo. Stokers. 177,603; Dec. 18.

Laforé Perfumery Co. (See Caplan, Joseph.)

Leahy Manufacturing Co., Higginsville, Mo. Incubators and brooders. 177,590; Dec. 18.

Lebanon Boiler Works. (See Petty, J. K., & Company.)

Les Perfums de Rosine. (See Poiret, Paul.)

Levey Printing Company, Indianapolis, Ind. Wall calendars, almanacs, printed books, etc. 177,300; Dec. 18; Serial No. 173,506; published Sept. 25, 1923.

Levey Printing Company, Indianapolis, Ind. Wall calendars, almanacs, printed books, etc. 177,301; Dec. 18; Serial No. 173,509; published Sept. 25, 1923.

Levey Printing Company, Indianapolis, Ind. Paper, bank-note wrappers, blank books. 177,557; Dec. 18; Serial No. 173,505; published Sept. 18, 1923.

Lijm-en-Gelatinefabriek-Delft, Delft, Netherlands. Gelatin. 177,599; Dec. 18.

Linahan, Charles, Troy, Mo. Nonalcoholic preparation for relieving dyspepsia, etc. 177,360; Dec. 18; Serial No. 181,900; published Sept. 25, 1923.

Lionel Corporation, The, New York, N. Y. Tracks for toy electrical trains. 177,431; Dec. 18; Serial No. 144,339; published Oct. 2, 1923.

Lipin, John, doing business as Motor Go Oil Company, Millersville, Md. Lubricating oils and greases and gasoline. 177,539; Dec. 18; Serial No. 183,630; published Oct. 2, 1923.

London, M. A., doing business as National Remedies Company, San Francisco, Calif. Lotions and other pharmaceutical preparations. 177,420; Dec. 18; Serial No. 164,441; published Sept. 25, 1923.

Lovering, Reuben W., doing business as Lovering Candy Company, St. Paul, Minn. Fudge bars or rolls. 177,568; Dec. 18; Serial No. 181,837; published Sept. 25, 1923.

Lysle, J. C., Milling Company, Leavenworth, Kans. Wheat flour. 177,578; Dec. 18; Serial No. 173,098; published Oct. 2, 1923.

McConnell Manufacturing Company, Newark, N. J. Hair waversers. 177,397; Dec. 18; Serial No. 181,204; published Oct. 2, 1923.

McIlarg, Sidney, Calexico, Calif. Cantaloupes and lettuce. 177,521; Dec. 18; Serial No. 167,409; published Oct. 9, 1923.

McLaine Silk Company, Turners Falls, Mass. Silk and satin piece goods. 177,483; Dec. 18; Serial No. 183,221; published Sept. 25, 1923.

McLaurin-Jones Co., Brookfield, Miss. Coated book paper. 177,571; Dec. 18; Serial No. 176,844; published Oct. 2, 1923.

Mac Lean Drug Company, Chicago, Ill. Knives, shears, scissors, razors, etc. 177,400; Dec. 18; Serial No. 178,756; published Oct. 2, 1923.

Macy, R. H., & Co., Inc., New York, N. Y. Artificial silk in the piece. 177,438; Dec. 18; Serial No. 182,314; published Sept. 25, 1923.

Madden, D. D., & Co., Inc., Portland, Oreg. Paper used for printing or lithographing blank checks, etc. 177,529; Dec. 18; Serial No. 182,713; published Oct. 2, 1923.

Maline Mills Company, The, Winston-Salem, N. C. Knit and woven underwear. 177,501; Dec. 18; Serial No. 182,252; published Oct. 9, 1923.

Marshall Field & Company, Chicago, Ill. Women's muslin underwear. 177,392; Dec. 18; Serial No. 181,267; published Oct. 2, 1923.

Marty, Carl, & Company, Chicago, Ill. Cheese. 177,381; Dec. 18; Serial No. 181,904; published Oct. 2, 1923.

May, C. Edward, doing business as Crown Bottling Works, Baltimore, Md. Beverage sold as a soft drink. 177,456; Dec. 18; Serial No. 178,347; published Oct. 2, 1923.

Metzler & Company, Incorporated, New York, N. Y. Negotiable and registrable bonds. 177,315; Dec. 18; Serial No. 180,338; published Oct. 2, 1923.

Michael, Leon, & Co., New York, N. Y. Cotton-cloth piece goods. 177,570; Dec. 18; Serial No. 177,136; published Sept. 25, 1923.

Michelbach, Frank, Alexandria, Va. Rug racks. 177,460; Dec. 18; Serial No. 177,613; published Sept. 25, 1923.

Miller Ice Cream Company, Oakland, Calif. Ice cream. 177,587; Dec. 18.

Millers Brothers Company, The, doing business as The American Products Company, Cincinnati, Ohio. Face powder, rouge, sachet powder, talcum powder, etc. 177,472; Dec. 18; Serial No. 175,316; published Sept. 25, 1923.

Mills Brothers Company, The, doing business as The American Products Company, Cincinnati, Ohio. Perfume, toilet water, talcum powder, cold cream, etc. 177,473; Dec. 18; Serial No. 175,318; published Sept. 25, 1923.

Mindlin, Benjamin, Jamaica, N. Y. Publication issued monthly. 177,351; Dec. 18; Serial No. 180,614; published Oct. 2, 1923.

Mitchell, P. R., Co., The, New York, N. Y. Ticking. 177,325; Dec. 18; Serial No. 178,931; published Sept. 25, 1923.

Modern Confectioner Publishing Company, Chicago, Ill. Monthly publication. 177,355; Dec. 18; Serial No. 181,957; published Sept. 25, 1923.

Monadnock Beverage Company, Troy, N. Y. Nonalcoholic, maltless soft drinks. 177,492; Dec. 18; Serial No. 183,118; published Oct. 2, 1923.

Monarch Specialty Manufacturing Co., New York, N. Y. Powder puffs. 177,439; Dec. 18; Serial No. 182,255; published Oct. 2, 1923.

Morris, Sloan, Morris & Co., Chicago, Ill. Hosiery, underwear, sweater coats, negligee and work shirts. 177,526; Dec. 18; Serial No. 182,601; published Oct. 2, 1923.

Moss, Edgar A., Marion, Ind. Heading for a humor column syndicated to both weekly and daily newspapers, etc. 177,434; Dec. 18; Serial No. 182,602; published Sept. 25, 1923.

Motor Go Oil Company. (See Lipin, John.)

Mupu Citrus Association, Santa Paula, Calif. Fresh citrous fruits. 177,440; Dec. 18; Serial No. 182,171; published Oct. 2, 1923.

Mupu Citrus Association, Santa Paula, Calif. Fresh citrous fruits. 177,444; Dec. 18; Serial No. 182,169; published Oct. 2, 1923.

Murdock, Victoria, Estate, doing business as The Wichita Eagle, Wichita, Kans. Daily newspaper. 177,314; Dec. 18; Serial No. 180,514; published Oct. 2, 1923.
Murphy, J. J. Paper Co., Inc., New York, N. Y. Bond paper. 177,516; Dec. 18; Serial No. 163,529; published Sept. 5, 1922.
National Physicians Supply Company, The, doing business as Ce-Wede Laboratory, Cincinnati, Ohio. Ointment for lumbago, gout, eczema, etc. 177,424; Dec. 18; Serial No. 162,806; published Sept. 25, 1923.
National Remedies Company. (See London, M. A.)
National School Supply Association, Chicago, Ill. Magazine published monthly. 177,344; Dec. 18; Serial No. 181,085; published Oct. 2, 1923.
Nelson, E. G., & Son, Chicago, Ill. Thousand Island dressing and mayonnaise dressing. 177,297; Dec. 18; Serial No. 174,899; published Oct. 2, 1923.
Nestlé & Anglo-Swiss Condensed Milk Co., Cham and Vevey, Switzerland. Condensed milk. 177,427; Dec. 18; Serial No. 157,629; published Sept. 18, 1923.
New Castle Notion Company, New Castle, Pa. Trousers, overalls, shirts, etc. 177,382; Dec. 18; Serial No. 181,905; published Oct. 2, 1923.
Nichols Electric Furniture Co., Bennington, Vt. Electrically-equipped serving table. 177,470; Dec. 18; Serial No. 175,623; published Oct. 2, 1923.
Nickel & Drummey, Chicago, Ill. Butter. 177,328; Dec. 18; Serial No. 178,624; published Sept. 25, 1923.
Northwestern Bakers & Confectioners Co., Minneapolis, Minn. Sirup and fruit and phosphatic acids and colorings, extracts, and flavorings for beverage purposes. 177,369; Dec. 18; Serial No. 181,856; published Oct. 2, 1923.
Nottage Company, The, Los Angeles, Calif. Men's and boys' work shirts and children's blouses and play suits. 177,406; Dec. 18; Serial No. 179,422; published Oct. 2, 1923.
Nottingham Lace Works, Jersey City, N. J., and New York, N. Y. Laces, handkerchiefs, embroideries, etc. 177,322; Dec. 18; Serial No. 179,317; published Sept. 25, 1923.
Olympic Club, The, San Francisco, Calif. Periodicals. 177,338; Dec. 18; Serial No. 181,206; published Sept. 25, 1923.
"Onyx" Hosiery Inc., New York, N. Y. Children's hosiery. 177,538; Dec. 18; Serial No. 182,670; published Oct. 2, 1923.
Os-Jaco Braided Line Co., Pawtucket, R. I. Fishlines. 177,491; Dec. 18; Serial No. 182,987; published Oct. 2, 1923.
Oxford Print, Boston, Mass. Wooden structure provided with seats in the nature of a merry-go-round. 177,430; Dec. 18; Serial No. 144,246; published Oct. 2, 1923.
P. & M. Company, Chicago, Ill. Rail anchors or anti-creepers. 177,413; Dec. 18; Serial No. 180,238; published Oct. 2, 1923.
Pabst Corporation, Milwaukee, Wis. Beverage sold as a soft drink. 177,339; Dec. 18; Serial No. 181,210; published Oct. 2, 1923.
Pabst Corporation, Milwaukee, Wis. Table water and root beer and nonalcoholic, maltless fruit-flavored soft drinks. 177,340; Dec. 18; Serial No. 181,215; published Oct. 2, 1923.
Pacific Malt & Hop Co. Inc., Brooklyn, N. Y. Pure malt extract for food purposes. 177,507; Dec. 18; Serial No. 152,767; published Sept. 18, 1923.
Page, Joseph G., doing business as J. G. Page Chemical Co., Buffalo, N. Y. Preparation for dandruff, eczema, and falling hair. 177,316; Dec. 18; Serial No. 180,294; published Sept. 25, 1923.
Paper Novelty Company, The, Green Bay, Wis. Package of paper napkins. 177,538; Dec. 18; Serial No. 183,717; published Oct. 2, 1923.
Papyrus Company, The, Kenilworth, N. J. Crape paper. 177,499; Dec. 18; Serial No. 182,221; published Sept. 18, 1923.
Paramount Specialty Co. (See Reiss, Fred.)
Parfumerie Lubin. (See Prot, Paul, & Cie.)
Parks-Cramer Company, Fitchburg, Mass. Humidity regulators. 177,523; Dec. 18; Serial No. 182,482; published Aug. 28, 1923.
Parrott, Herbert G., Chicago, Ill. Metal polish. 177,313; Dec. 18; Serial No. 180,490; published Sept. 25, 1923.
Passaic Print Works, Passaic, N. J. Cotton piece goods. 177,425; Dec. 18; Serial No. 156,412; published Sept. 18, 1923.
Peck, Elbert C., Los Angeles, Calif. Dry, paste, and ready-mixed paints, oil colors, varnish, etc. 177,541; Dec. 18; Serial No. 183,499; published Oct. 2, 1923.
Pennsylvania Textile Mills, Inc., Glen Riddle, Pa., and New York, N. Y. Garments for women. 177,362; Dec. 18; Serial No. 181,862; published Oct. 2, 1923.
Penton Publishing Company, The, Cleveland, Ohio. Monthly marine periodical. 177,447; Dec. 18; Serial No. 182,058; published Sept. 25, 1923.
Peters Brothers Rubber Co., Inc., New York, N. Y. Backing or reenforcing cotton cloth and white shoe cloth in the piece. 177,312; Dec. 18; Serial No. 167,098; published Sept. 25, 1923.
Petty, J. K., & Company, Incorporated, doing business as Lebanon Boiler Works, Philadelphia, Pa. Steam boilers. 177,605; Dec. 18.
Philips, Josiah G., doing business as World Refining Company, Easton, Pa. Lubricating oils and greases. 177,422; Dec. 18; Serial No. 160,080; published Sept. 19, 1922.
Plushkell, August B., doing business as Flatopn Binder Company, Los Angeles, Calif. Loose-leaf binders. 177,391; Dec. 18; Serial No. 181,864; published Oct. 2, 1923.
Poiret, Paul, doing business as Les Perfums de Rosine, Paris, France. Perfumes and toilet waters. 177,454–5; Dec. 18; Serial Nos. 178,467–8; published Sept. 25, 1923.
Popular Products Company. (See Tauch, Werner C.)
Powers, Walter P., Chicago, Ill. Beverages. 177,416; Dec. 18; Serial No. 165,809; published Oct. 2, 1923.
Prot, Paul, & Cie., doing business as Parfumerie Lubin, Paris, France. Perfumes and toilet waters. 177,309; Dec. 18; Serial No. 170,081; published Sept. 25, 1923.
Prym, William, Company, Limited, The, Stolberg, Germany. Bone stilettos, hooks and eyes, corset eyes, snap fasteners, etc. 177,506; Dec. 18; Serial No. 148,617; published Oct. 2, 1923.
Quaker Oats Company, The, Chicago, Ill. Wheat flour. 177,562; Dec. 18; Serial No. 174,916; published June 5, 1923.
Quaker Oats Company, The, Chicago, Ill. Wheat flour. 177,573; Dec. 18; Serial No. 177,452; published Oct. 2, 1923.
Radio-Films, Inc., Hollywood, Calif. Motion-picture films issued serially. 177,518; Dec. 18; Serial No. 166,149; published Oct. 2, 1923.
Reckitts (U. S. A.), Ltd., New York, N. Y., and New Brunswick, N. J. Laundry blue. 177,423; Dec. 18; Serial No. 162,137; published Sept. 25, 1923.
Reinartz, John L., New York, N. Y. Electrical inductances. 177,585; Dec. 18.
Reiss, Fred, doing business as Paramount Specialty Co., Louisville, Ky. Cleanser for artificial teeth. 177,374; Dec. 18; Serial No. 180,891; published Sept. 25, 1923.
Remiller Co., The, New York, N. Y. Talcum powder. 177,363; Dec. 18; Serial No. 181,866; published Sept. 25, 1923.
Robbins, Samuel D., Boston, Mass. Publication on the correction of stammering. 177,471; Dec. 18; Serial No. 175,568; published Sept. 25, 1923.
Robinson, Alice G., Washington, D. C. Monthly publication. 177,495; Dec. 18; Serial No. 182,719; published Oct. 2, 1923.
Rockwood Manufacturing Company, The, Indianapolis, Ind. Fillers for power-transmission pulleys. 177,514; Dec. 18; Serial No. 163,113; published Oct. 2 1923.
Rogers Peet Company, New York, N. Y. Men's and boys' overcoats and suits. 177,547; Dec. 18; Serial No. 183,231; published Oct. 9, 1923.
Röhm & Haas Aktiengesellschaft, Darmstadt, Germany. Disinfectants, dyes, emulsion gelatin, etc. 177,415; Dec. 18; Serial No. 165,888; published Sept. 25, 1923.
Rosenberg, Samuel, doing business as Phenix Packing Co., New York, N. Y. Caviar. 177,401; Dec. 18; Serial No. 178,361; published Aug. 7, 1923.
Rosenthal, A. S., Company, Inc., New York, N. Y. Silk and cotton goods and goods containing a mixture of cotton and silk, all in the piece. 177,494; Dec. 18; Serial No. 182,933; published Sept. 25, 1923.
Ross & Company, New York, N. Y. Catalogues published annually. 177,310; Dec. 18; Serial No. 169,327; published Oct. 2, 1923.
Roth Tobacco Company, Cape Girardeau, Mo. Twist and plug tobacco. 177,451; Dec. 18; Serial No. 182,007; published Oct. 2, 1923.
Roth Tobacco Company, Cape Girardeau, Mo. Twist and plug tobacco. 177,453; Dec. 18; Serial No. 182,006; published Oct. 2, 1923.
Rugby Creamery, Rugby, N. Dak. Butter. 177,388; Dec. 18; Serial No. 181,779; published Oct. 2, 1923.
S. Y. C. O. Co., Chicago, Ill. Remedy for piles, colds in the chest, sore muscles, and burns. 177,317; Dec. 18; Serial No. 180,241; published Sept. 25, 1923.
Sadler Manufacturing Company, San Francisco, Calif. Radio loud-speaking horns. 177,606; Dec. 18.
Sanitary Hair Company. (See Trotsky, Isadore.)
Sauer, N., Milling Company, Cherryvale, Kans. Wheat flour. 177,508; Dec. 18; Serial No. 153,787; published Oct. 2, 1923.
Schwartz, Paul H., doing business as Bob-o-Link Products Co., Baltimore, Md. Malt extract. 177,452; Dec. 18; Serial No. 182,013; published Oct. 2, 1923.
Schweiz. Deckeu- und Tuchfabriken Pfungen-Turbenthal, Zurich, Switzerland. Textile fabrics. 177,335; Dec. 18; Serial No. 181,571; published Sept. 25, 1923.
Sethness Company, Chicago, Ill. Nonalcoholic, maltless, sirup for making a citrous beverage. 177,302; Dec. 18; Serial No. 173,147; published Oct. 2, 1923.
Sewall Paint and Glass Company, Kansas City, Mo. Prepared paint. 177,545; Dec. 18; Serial No. 183,320; published Oct. 2, 1923.
Sheik Toilet Products Company. (See Kleis, Adolf J.)
Shinn, Jeannette C., doing business as J. C. Shinn Co., New York, N. Y. Educational card games. 177,298; Dec. 18; Serial No. 174,217; published Oct. 2, 1923.
Silger Laboratories, Buffalo, N. Y. Preparation for dressing the hair. 177,364; Dec. 18; Serial No. 181,869; published Sept. 25, 1923.

Simon, J., & Cie., Lyon and Paris, France. Toilet soaps. 177,595; Dec. 18; Serial No. 150,772; published Oct. 2, 1923.
Smith, R. Blackwell, doing business as The Tonsone Co., Petersburg, Va. Preparation for use in treating tonsillitis, sore throat, etc. 177,323; Dec. 18; Serial No. 179,334; published Sept. 25, 1923.
Soc. An. Fsco. Cinzano & Cia., Turin, Italy. Wines. 177,318; Dec. 18; Serial No. 180,246; published Oct. 2, 1923.
Soc. An. Fsco. Cinzano & Cia., Turin, Italy. Absinthe, brandy, gin, rum, etc. 177,319; Dec. 18; Serial No. 180,247; published Oct. 2, 1923.
Societe Vinicole de Champagne, Paris, France. Champagne wine. 177,417; Dec. 18; Serial No. 165,215; published Oct. 2, 1923.
Societe Vinicole de Champagne, Paris, France. Champagne wine. 177,419; Dec. 18; Serial No. 165,211; published Aug. 14, 1923.
Solomon Mfg. Co., St. Louis, Mo. Sport and outing dresses and suits. 177,402; Dec. 18; Serial No. 178,006; published Oct. 2, 1923.
Solomon Mfg. Co., St. Louis, Mo. Women's wearing apparel commonly known as knickerbockers. 177,517; Dec. 18; Serial No. 167,333; published Sept. 11, 1923.
Solomon Mfg. Co., St. Louis, Mo. Children's, misses', and women's wearing apparel. 177,520; Dec. 18; Serial No. 167,663; published Sept. 4, 1923.
South Chicago Wholesale Grocery and Produce Company, Inc., South Chicago, Ill. Canned fruits, vegetables, and fish. 177,389; Dec. 18; Serial No. 181,784; published Oct. 9, 1923.
Southwark Beverage & Products Co. (See Graf, William.)
Standard Heel & Counter Co., St. Louis, Mo. Leather floor mats. 177,582; Dec. 18.
Stanley Works, The, New Britain, Conn. Vises, bit braces, breast drills, planes, and parts thereof, etc. 177,405; Dec. 18; Serial No. 179,432; published Oct. 2, 1923.
Stauffer, D. F., Biscuit Co., Inc., York, Pa. Pretzels. 177,373; Dec. 18; Serial No. 180,903; published Sept. 25, 1923.
Stein, A., & Company, Chicago, Ill. Dress shields, elastic webbing, shirred elastic ribbon. 177,534; Dec. 18; Serial No. 183,004; published Oct. 2, 1923.
Steiner, Leopold, New York, N. Y. Electric lamps and radiators for therapeutic use. 177,433; Dec. 18; Serial No. 125,441; published Apr. 13, 1920.
Stetson Shirt Co. Inc., New York, N. Y. Men's dress and negligee shirts. 177,411; Dec. 18; Serial No. 179,834; published Oct. 2, 1923.
Street, John F., & Co., Providence, R. I. Cotton yarns. 177,475; Dec. 18; Serial No. 184,152; published Sept. 25, 1923.
Sulpho-Napthol Company, The, Boston, Mass. Tree and plant spray solutions. 177,356; Dec. 18; Serial No. 181,964; published Sept. 25, 1923.
Sutton & Darbyshire, Incorporated, Philadelphia, Pa. Periodical. 177,449; Dec. 18; Serial No. 182,020; published Sept. 25, 1923.
Tampa Cigar Company, Tampa, Fla. Cigars. 177,445; Dec. 18; Serial No. 182,116; published Oct. 2, 1923.
Tampa Cigar Company, Tampa, Fla. Cigars. 177,448; Dec. 18; Serial No. 182,115; published Oct. 2, 1923.
Tauch, Werner C., doing business as Popular Products Company, San Antonio, Tex. Powdered polish for automobile bodies and other painted and varnished surfaces. 177,407; Dec. 18; Serial No. 179,171; published Oct. 2, 1923.
Thoma & Son Inc., Fairfield, Iowa. Window glass, glare shields of glass, and glass for automobiles. 177,441; Dec. 18; Serial No. 182,188; published Sept. 25, 1923.
Thompson, Zola, doing business as Crystal Chemical Co., San Francisco, Calif. Wax for polishing floors, furniture, woodwork, etc. 177,525; Dec. 18; Serial No. 182,552; published Oct. 2, 1923.
Thomson Wood Finishing Co., The, Philadelphia, Pa. Paints, enamels, varnishes, etc. 177,380; Dec. 18; Serial No. 181,873; published Oct. 2, 1923.
Tonsone Co., The. (See Smith, R. Blackwell.)
Torrington Company, The, Torrington, Conn. Spokes and nipples for vehicle wheels. 177,588; Dec. 18.
Trotsky, Isadore, doing business as Sanitary Hair Company, Providence, R. I. Hair nets. 177,437; Dec. 18; Serial No. 182,452; published Sept. 25, 1923.
Tubular Woven Fabric Company, Pawtucket, R. I. Woven tubes for electrical conductors. 177,608; Dec. 18.
Tyroler, Joseph, New York, N. Y. Picture-projection lamp and parts thereof. 177,524; Dec. 18; Serial No. 182,524; published Oct. 2, 1923.
U. S. Mop Company, Inc., The, Toledo, Ohio. Floor mops, hand dusters, floor brushes, wall dusters. 177,428; Dec. 18; Serial No. 150,170; published Oct. 2, 1923.
U. S. Sanitary Specialties Corporation, Chicago, Ill. Soap. 177,559; Dec. 18; Serial No. 173,545; published Sept. 25, 1923.
U. S. Sanitary Specialties Corporation, Chicago, Ill. Scrubbing compound. 177,560; Dec. 18; Serial No. 173,542; published Sept. 25, 1923.
Underwood, Frank K., doing business as Underwood Candy Co., Oskaloosa, Iowa. Candy. 177,306; Dec. 18; Serial No. 170,959; published Sept. 25, 1923.
United Chemical and Organic Products Co., Chicago, Ill. Hog feed and meal. 177,398; Dec. 18; Serial No. 182,191; published Oct. 2, 1923.
United Hosiery Mills Corporation, Chattanooga, Tenn. Hosiery. 177,563; Dec. 18; Serial No. 175,971; published Oct. 2, 1923.
United Piece Dye Works, Lodi, N. J. Dyed, printed, and finished textile fabrics, printed silk foulards. 177,466; Dec. 18; Serial No. 177,152; published Sept. 25, 1923.
Volland, P. F., Co., Chicago, Ill. Fabric toy dogs adapted to be stuffed. 177,311; Dec. 18; Serial No. 167,342; published Oct. 2, 1923.
Wager Manufacturing Corporation, Jersey City, N. J. Mechanical shaving lather-forming devices. 177,598; Dec. 18.
Walton, Octavia. (See Goodbar, Octavia W.)
Ward Baking Company, New York, N. Y. Bread. 177,502; Dec. 18; Serial No. 182,322; published Oct. 2, 1923.
Welch Grape Juice Company, Westfield, N. Y. Tomato catchup. 177,583; Dec. 18.
Wichita Eagle, The. (See Murdock, Victoria Estate.)
Wigder, Bernard, doing business as The Wigder Manufacturing Co., Newark, N. J. Manicure implements. 177,512; Dec. 18; Serial No. 159,341; published Oct. 2, 1923.
Williams, J. B., Company, The, Glastonbury, Conn. Soap. 177,510; Dec. 18; Serial No. 162,790; published Sept. 25, 1923.
Willis Norton & Co., North Topeka, Kans. Wheat flour. 177,498; Dec. 18; Serial No. 182,325; published Oct. 2, 1923.
Wilton Manufacturing Company, Inc., New York, N. Y. Cotton piece goods. 177,480; Dec. 18; Serial No. 183,787; published Sept. 18, 1923.
World Refining Company. (See Philips, Josiah G.)
Wright, Clair G., Kansas City, Mo. Men's underwear union suit. 177,378; Dec. 18; Serial No. 181,097; published Oct. 2, 1923.
Wyoming Toy Mfg. Co., Wilkes-Barre, Pa. Toy coaster vehicles. 177,479; Dec. 18; Serial No. 183,462; published Oct. 2, 1923.
Zobel, Ernst, Company, Inc., Brooklyn, N. Y. Protective composition in the nature of a paint for roofs. 177,513; Dec. 18; Serial No. 163,208; published Oct. 2, 1923.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Allaire, Woodward & Co., Peoria, Ill. Liquid El Vampire. For a Liquid Spray for Flies, Mosquitoes, Moths, Fleas, Bedbugs, Lice, Cockroaches, and Ants. 26,685; Dec. 18.
Chief Consolidated Mining Co., Salt Lake City, Utah. Chief Brand, The Universal Hydrated Lime. For Hydrated Lime and Lime Products. 26,686; Dec. 18.
Griswold, Lester E., Columbus, Ohio. Leather Plaiting Outfit. For Outfits Which Include Leather Cutting and Plaiting Implements for Forming and Plaiting Leather Strips or Thongs. 26,688; Dec. 18.
King and Company, Chicago, Ill. Apricot Sheik. For Soft Beverages of Apricot Flavor. 26,689; Dec. 18.
Lee-Strauss Co., Johnstown, Pa. Radcose. For a Non-freezing Solution for Automobile, Truck, and Tractor Radiators. 26,687; Dec. 18.
Markert & Waybright, Clarksburg, W. Va. Gran'ma's Extra Quality. For Bread. 26,690; Dec. 18.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Reynolds Baking Company, Columbus, Ohio. Holsum. For Bread. 26,691; Dec. 18.
Menasha Printing and Carton Company, Menasha, Wis. Velvet Brand. For Butter. 26,692; Dec. 18.
Menasha Printing and Carton Company, Menasha, Wis. Perry's. For Ice Cream. 26,693; Dec. 18.
Menasha Printing and Carton Company, Menasha, Wis. Perfection. For Ice Cream. 26,694; Dec. 18.
Menasha Printing and Carton Company, Menasha, Wis. Quality. For Butter. 26,695; Dec. 18.
Midwest Creamery Co., Plymouth, Wis. Clover Dew. For Creamery Butter. 26,696; Dec. 18.
Milwaukee Paper Box Company, Milwaukee, Wis. Dutch Maid. For Old-Fashioned Bittersweets. 26,697; Dec. 18.
Milwaukee Paper Box Company, Milwaukee, Wis. Moon-Glow. For Assorted Chocolates. 26,698; Dec. 18.
Morrell, John, & Co., Ottumwa, Iowa. Riverdale. For Creamery Butter. 26,699; Dec. 18.
Morrell, John, & Co., Ottumwa, Iowa. Riverdale. For Sugar Peas. 26,700; Dec. 18.
Muller, Paul, New York, N. Y. Murell's Handcleaner Claro. For Soap Powder. 26,701; Dec. 18.

Raas, J. C., San Francisco, Calif. Lyons' California Orchard Scenes, Series No. 2. For Glacé Fruits. 26,702; Dec. 18.
Reynolds Baking Company. (See Menasha Printing and Carton Company, assignor.)
Rosen, E., Company, Providence, R. I. Rosen's Peanut Brittle. For Peanut Brittle. 26,703; Dec. 18.
Shapiro, Jacob, doing business as Standard Coffee & Spice Co., Kansas City, Mo. Wedding Ring Coffee. For Coffee. 26,704; Dec. 18.
Standard Coffee & Spice Co. (See Shapiro, Jacob.)
Sussman, Wormser & Co., San Francisco, Calif. S and W Calasla Figs. For Whole Figs Canned, Preserving Natural Flavor of Fresh Figs. 26,705; Dec. 18.
Sussman, Wormser & Co., San Francisco, Calif. S and W. For Canned Grapefruit. 26,706; Dec. 18.
Ward Baking Company, New York, N. Y. Ward's Dainty Dimple Donuts. For Doughnuts. 26,707; Dec. 18.
Wish, Fred A., Inc., New York, N. Y. Uncle Wiggily's Parade. For Toy Balloons. 26,708; Dec. 18.
Wish, Fred A., Inc., New York, N. Y. Uncle Wiggily's Balloon—Bang! For Toy Balloons. 26,709; Dec. 18.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Bluebird Pharmacal Co., Cambridge, Mass. Here's Happiness! Just Use Bluebirds for Happiness. For Liver Pills. 7,087; Dec. 18.
Brandenstein, M. J., & Co., San Francisco, Calif. M. J. B. Coffee 'Exceeds All Expectations'. For Coffee. 7,088; Dec. 18.
Cluett, Peabody & Co., Inc., Troy, N. Y. Arrow Shirts—Gordon—Spencer. For Shirts. 7,089; Dec. 18.
Cluett, Peabody & Co., Inc., Troy, N. Y. Arrow Shirts—The Arrow Shirt makers depend, etc. For Shirts. 7,090; Dec. 18.
Cluett, Peabody & Co., Inc., Troy, N. Y. Arrow Shirts—This is Spencer 10, an Arrow Shirt designed, etc. For Shirts. 7,091; Dec. 18.
Elders, H. Will, M. D., St. Joseph, Mo. A Baby In Your Home. For a Proprietary Remedy for Use in the Treatment of Sterility in Women. 7,092; Dec. 18.
Gulf Crushing Co. Inc., Morgan City and New Orleans, La. Reef Brand Crushed Oyster Shell for Poultry. For Crushed Oyster Shell. 7,093; Dec. 18.
Hills Bros., San Francisco, Calif. The Flavor Difference. For Coffee. 7,094; Dec. 18.
Hills Bros., San Francisco, Calif. The High Quality makes friends. For Coffee. 7,095; Dec. 18.
Hills Bros., San Francisco, Calif. The delicious aroma of an opened can is a promise of the full-flavored cup to come. Quality made it. For Coffee. 7,096; Dec. 18.
Hills Bros., San Francisco, Calif. Quality made. For Coffee. 7,097; Dec. 18.
Mathews, Frederick C., Company, Detroit, Mich. A Joy to the Epicure. For Ice Cream. 7,098; Dec. 18.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abbey Effervescent Salt Company, Inc., New York, N. Y. Dry chemical mixture of health salt. 180,644–5; Dec. 18.
Abraham & Straus, Inc., New York, N. Y. Hair nets. 186,404; Dec. 18.
Alaska Pacific Fisheries, Seattle, Wash. Canned salmon. 187,277; Dec. 18.
Alexandre & Emile, New York, N. Y. Preparation for use when effecting a permanent wave in the hair. 182,695; Dec. 18.
Allen, Doctor, W. A., Company, Los Angeles, Calif. Dental cream. 185,000; Dec. 18.
American Syrup Company, Inc., Boston, Mass. Beverages sold as soft drinks and sirups, extracts, emulsions, and pastes for making the same. 168,191; Dec. 18.
American Tea & Coffee Co., Nashville, Tenn. Coffee. 185,170; Dec. 18.
Andrews, William, Niagara Falls, N. Y. Ointment for the treatment of eczema and other skin diseases. 175,231; Dec. 18.
Apollo Drug Company, Gary, Ind. Tonic medicine for the stomach, bowels, blood, nerves, etc. 185,240; Dec. 18.
Arkadelphia Milling Company, Arkadelphia, Ark. Stock feed. 183,641; Dec. 18.
Arkadelphia Milling Co., Arkadelphia, Ark. Laying mash, scratch feed, poultry feed, etc. 184,228; Dec. 18.
Atlas Bedstead Company, (Stephen Wilkes & Sons) Limited, The, Bilston, England. Corner fittings for bedsteads, cots, etc. 172,026; Dec. 18.
Augusta Knitting Corporation, Utica, N. Y. Ladies' union suits, vests, and bathing suits. 174,284; Dec. 18.
Avedon & Co., Inc., New York, N. Y. Women's coats, suits, dresses, etc. 187,032; Dec. 18.
Bahnsen, C., & Co. Inc., New York, N. Y. Wool velour coating piece goods. 186,541; Dec. 18.
Baker, B. R. Co., The, Toledo, Ohio. Knitted sweaters and vests. 175,376; Dec. 18.
Baker-Lockwood Mfg. Co. Inc., Kansas City, Mo. Sleeve protectors. 166,871; Dec. 18.
Baldwin, Henry P., Ltd., doing business as Baldwin Packers, Lahaina, Hawaii. Canned pineapple. 187,283; Dec. 18.
Barron, Arnold M., doing business as Ferris Radio Research Laboratory, Boston, Mass. Radio detectors. 185,358; Dec. 18.
Baum, Constance H., New York, N. Y. Novelty designs for textiles. 183,728; Dec. 18.
Beller, A., & Company, New York, N. Y. Ladies' coats, capes, suits, and dresses. 185,359; Dec. 18.
Bennett Rubber Co. Inc., Los Angeles, Calif. Boiler compound. 183,720; Dec. 18.
Berger, Harry, doing business as Harry Berger Shirt Company, New York, N. Y. Men's and boys' shirts, collars, pyjamas, etc. 180,205; Dec. 18.
Bernard & Blanchard, Albany, N. Y. Salt. 183,902; Dec. 18.
Bethlehem Narrow Textiles Co., Bethlehem, Pa. Hosiery. 187,194; Dec. 18.
Bideiman, Mary E., doing business as Bideiman & Company, Fort Worth, Tex. Salve for treating insect bites and stings, etc. 182,464; Dec. 18.
Blaisdell Pencil Company, Philadelphia, Pa. Lead pencils. 188,178; Dec. 18.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 186,771; Dec. 18.
Boethling, William C., doing business as Mariba Co., Passaic, N. J. Tea for obesity. 183,247; Dec. 18.
Boulta Co., The, Fond du Lac, Wis. Candy. 184,637; Dec. 18.
Borgfeldt, George, & Co., New York, N. Y. Toilet preparations. 185,104; Dec. 18.
Boston Electrolytic Oxygen Company, Everett, Mass. Oxygen and hydrogen gases. 184,639; Dec. 18.
Brown, Henry O., doing business as H. O. Brown Company, Philadelphia, Pa. Pile remedy. 182,397; Dec. 18.
Brun, Jean A. F., Paris, France. Taximeters. 186,176; Dec. 18.
Burgess, Zeph E., San Francisco, Calif. Massage and tissue creams, talcum powders, astringent, etc. 185,954; Dec. 18.
Burnham & Morrill Company, Portland, Me. Canned beans and pork, vegetables, and clams. 185,557; Dec. 18.
Cadman, A. W. Manufacturing Co., Pittsburgh, Pa. Bearing metals. 183,360; Dec. 18.
Calhoun, Robbins & Co., New York, N. Y. Tassels and fringes, elastic belting and cord, etc. 172,209; Dec. 18.
Campro Corporation, The, New York, N. Y. Motion-picture camera and projector. 186,584; Dec. 18.
Carbide & Carbon Chemicals Corporation, New York, N. Y. Self-contained units for storing and supplying gas for heating, lighting, and power purposes. 185,651; Dec. 18.
Caulk, L. D., Company, The, Milford, Del. Preparation for application to dental cavities, etc. 184,118; Dec. 18.
Centemeri, P., & Co., New York, N. Y. Gloves, underwear, and hosiery. 185,414; Dec. 18.
Centemeri, P., & Co., New York, N. Y. Underwear and hosiery. 185,416; Dec. 18.
Champion, Chas. V., doing business as C. V. Champion & Co., Danville, Ill. Corn-popping machines. 185,858; Dec. 18.
Chapman, Charles C., Fullerton, Calif. Citrous fruits. 181,377; Dec. 18.
Chemical Paper Manufacturing Company, Holyoke, Mass. Ledger paper. 187,712; Dec. 18.
Chemical Paper Manufacturing Company, Holyoke, Mass. Light-weight writing and printing paper. 187,713; Dec. 18.
Chemical Products Co. (See Millican, A. L.)
Chemical Treatment Company, New York, N. Y. Chemicals for the removal of sulphur, etc., from molten iron and other metals. 176,602; Dec. 18.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Chopak Textile Co. Inc., New York, N. Y. Silk piece goods. 185,176; Dec. 18.
Clausen-Zoller Company, The, St. Louis, Mo. Urinary antiseptic. 183,819; Dec. 18.
Cloverleaf Knitting Mills Inc., New York, N. Y. Knitted garments. 184,067; Dec. 18.
Coffee Products Corporation, New York, N. Y. Coffee. 187,453; Dec. 18.
Cofield Laboratories, Inc., Philadelphia, Pa. Indigestion and dyspepsia remedies. 184,324; Dec. 18.
Colnne, Sylvester T., doing business as Park Mfg. Co., Hartford, Conn. Telephone silencers. 184,122; Dec. 18.
Columbus Chemical Company, Columbus, Ohio. Headache and neuralgia powders. 165,747; Dec. 18.
Compo Bond Corporation, New York, N. Y. House organ. 177,166; Dec. 18.
Coty, Inc., Wilmington, Del., and New York, N. Y. Perfumes, toilet water, and eau de Cologne. 180,100; Dec. 18.
Coty, Inc., Wilmington, Del., and New York, N. Y. Perfumes. 180,102; Dec. 18.
Coty, Inc., Wilmington, Del., and New York, N. Y. Perfumes, toilet water, face powder, etc. 180,103; Dec. 18.
Coty, Inc., Wilmington, Del., and New York, N. Y. Toilet soaps. 180,106; Dec. 18.
Cousar, John G., and John G. Barron, Fort Lawn, S. C. Mechanical insect exterminators. 167,672; Dec. 18.
Cowen, Bernard W., Corp., New York, N. Y. Packages or outfits containing materials for making lamp shades, telephone screens, etc. 166,285–6; Dec. 18.
Cowen, M. H., Manufacturing Company, Chicago, Ill. Workingmen's shirts. 168,452; Dec. 18.
Davis-Reese Co., Inc., Brooklyn, N. Y. Stick candy. 183,959; Dec. 18.
Deane Plaster Co., The, Yonkers, N. Y. Medicated and surgical plasters, court plasters, etc. 170,970; Dec. 18.
Dedek, Frank, Chicago, Ill. Laxative tea. 184,124; Dec. 18.
Delatour Beverage Corporation, New York and Long Island City, N. Y. Ginger ale. 186,830; Dec. 18.
Diehl, Kane & Diehl Tailoring Co., Cincinnati, Ohio. Men's outer garments or clothing. 179,784; Dec. 18.
Diem & Wing Paper Co., The, Cincinnati, Ohio. Wrapping paper. 187,565; Dec. 18.
Dill & Collins Co., Philadelphia, Pa. Printing and writing papers. 187,608; Dec. 18.
Disappearing Propeller Boat Co. Limited, Toronto, Ontario, Canada. Internal-combustion motors and parts thereof. 184,815; Dec. 18.
Doering Manufacturing Company, Chicago, Ill. Automobile or vehicle electric lamps. 183,202; Dec. 18.
Domino House. (See Sullivan, Marguerite, assignor.)
Donohoe, Patrick J., doing business as The Minox Co., New York, N. Y. Antiseptic germicide and deodorant. 185,110; Dec. 18.
Dornaus, Ernest E., Oklahoma, Okla. Wedges. 178,235; Dec. 18.
Dyas, Bernal H., Los Angeles, Calif. Portable ninepin game. 187,376; Dec. 18.
Economy Cooker Company, Providence, R. I. Steam-pressure cookers. 183,562; Dec. 18.
Ekko Company, The, Chicago, Ill. Radio phonograph adapters. 181,519; Dec. 18.
Eline's Incorporated, Milwaukee, Wis. Chocolate. 186,319; Dec. 18.
Enterprise Bed Company, Hammond, Ind. Swinging couches or davenports. 167,770; Dec. 18.
Fabrique d'Horlogerie La Glycine, Bienne, Switzerland. Watches, clocks, and parts thereof. 181,740; Dec. 18.
Fain, Jacob R., doing business as The Owl Disinfectant Company, Washington, D. C. Insecticide. 184,898–9; Dec. 18.
Fain, Jacob R., doing business as The Owl Disinfectant Company, Washington, D. C. Disinfectant. 184,900; Dec. 18.
Fain, Jacob R., doing business as The Owl Disinfectant Company, Washington, D. C. Insecticides and disinfectants. 184,901; Dec. 18.
Falkenwalde, Oscar, doing business as The O. F. Oil Burner Company, Baltimore, Md. Asphalt melter. 186,180; Dec. 18.
Farbenfabriken vorm. Friedr. Bayer & Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Anæsthetics. 186,003; Dec. 18.
Farbenfabriken vorm. Friedr. Bayer & Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Agents against parasitic and nonparasitic skin diseases. 186,004; Dec. 18.
Farbenfabriken vorm. Friedr. Bayer & Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Agents against exhaustion. 186,005; Dec. 18.
Ferguson, Weinberg & Rose, Chicago, Ill. Ready-made women's apparel. 177,662; Dec. 18.
Ferran Clua, Jaime, Barcelona, Spain. Medicinal preparations. 165,914; Dec. 18.
Ferris and Company, Limited, Bristol, England. Throat and voice antiseptics and stimulants. 182,743; Dec. 18.
Ferris Radio Research Laboratory. (See Barron, Arnold M.)
56th St. Quality Bakery. (See Garlek, Charles.)
Fisk Rubber Company, The, Chicopee Falls, Mass. Vehicle tires and rubber tubes therefor. 183,794; Dec. 18.
Fleischmann Company, The, Cincinnati, Ohio, and New York, N. Y. Yeast. 147,020; Dec. 18.
Floralea Creme Co. (See Nelson, Mrs. Jane.)
Fontola Medicine Co., Fort Smith, Ark. Tonic for treating anæmia, low vitality, etc. 183,912; Dec. 18.
Forcier, Joseph, doing business as Joseph Forcier & Co., New Bedford, Mass. Ointment for piles, corns, burns, etc. 169,898; Dec. 18.
Ford, Charles H., Taft, Okla. Preparation for the treatment of cholera, colds, coughs, etc., of hogs and pigs. 184,128; Dec. 18.
Fox River Paper Company, Appleton, Wis. Writing paper. 187,617; Dec. 18.
Frances, Edith. (See Gallagher, James T.)
Fried, Ostermann Company, Milwaukee, Wis. Leather coats and vests. 187,104; Dec. 18.
Frith, Walter D., Vancouver, British Columbia, Canada. Canned salmon. 185,516; Dec. 18.
Gallagher, James T., doing business as Edith Frances, Miami, Fla. Lemon vanishing cream, foundation cream, emollient cream, etc. 174,240; Dec. 18.
Garlek, Charles, doing business as 56th St. Quality Bakery, Philadelphia, Pa. Bread. 178,605; Dec. 18.
General Laboratories, Madison, Wis. Preparations used for the prevention and treatment of germ diseases. 181,885; Dec. 18.
Gerla, M., & Son, New York, N. Y. Dresses, coats, suits, waists, sweaters, hosiery, etc. 185,118; Dec. 18.
Gimenez y Moreno, Alfredo, Bayamon, P. R. Medicine for treatment of tuberculosis. 169,137; Dec. 18.
Gaughnour & Shields, Des Moines, Iowa. Tooth paste. 184,909; Dec. 18.
Grout, Harry K., doing business as H. K. Grout & Co., Cedar Rapids, Iowa. Underwear for women and children. 184,725; Dec. 18.
"H. W." Company, The, St. Louis, Mo. Medicinal remedy for the treatment and prevention of cholera, etc., in poultry and pigeons. 184,447; Dec. 18.
Harness, Frederick A., Kellogg, Idaho. Salve for itch, sores, eczema, etc. 186,128; Dec. 18.
Hecker-Jones-Jewell Milling Company, New York, N. Y. Wheat flour. 182,802; Dec. 18.
Hecker-Jones-Jewell Milling Company, New York, N. Y. Wheat flour. 183,028; Dec. 18.
Hecker-Jones-Jewell Milling Company, New York, N. Y. Wheat flour. 183,031–2; Dec. 18.
Hecker-Jones-Jewell Milling Company, New York, N. Y. Wheat flour. 183,287; Dec. 18.
Hecker-Jones-Jewell Milling Company, New York, N. Y. Wheat flour. 183,478; Dec. 18.
Heimbach Baking Company, The, Allentown, Pa. Bread. 179,270; Dec. 18.
Hershey, Martin, Laboratory. (See Herkowitz, Martin H.)
Herskowitz, Martin H., doing business as Martin Hershey Laboratory, Cleveland, Ohio. Laxative. 182,472; Dec. 18.
Hibben, John H., Dry Goods Co., The, Cincinnati, Ohio. Muslins, sheeting, sheets, tickings, etc. 186,505; Dec. 18.
Hicks & Johnson, Columbus, Ga. Pharmaceutical preparations. 186,057; Dec. 18.
Hill & Jackson, Waskom, Tex. Hair grower. 184,074; Dec. 18.
Hits-It M'f'g Co., Camden, N. J. Insecticide. 186,129; Dec. 18.
Hodes Mills Inc., New York, N. Y. Men's and boys' knitted and textile athletic underwear. 184,451–2; Dec. 18.
Hoechstetter, Max S., Pittsburgh, Pa. Toilet lotion for chapped hands and face. 181,599; Dec. 18.
Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. 186,367; Dec. 18.
Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. 186,369; Dec. 18.
Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. 186,372; Dec. 18.
Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. 186,374; Dec. 18.
Holstein-Friesian Association of America, Chicago, Ill. Milk, cream, buttermilk, butter, and cheese. 183,973; Dec. 18.
Houbigant, Inc., New York, N. Y. Perfume, toilet water, face and talcum powders, etc. 184,910–11; Dec. 18.
Hudnut, Richard, New York, N. Y. Talcum, face powder, bath salts, sachet, etc. 185,969; Dec. 18.
Hunt Brothers Packing Company, San Francisco, Calif. Canned fruits. 187,463; Dec. 18.
Hurst-Boillin Co., Clarksville, Tenn. Patent winter-wheat flour. 174,395; Dec. 18.
Indian River Products Company, The, Vero, Fla. Fresh grapefruit, oranges, tomatoes, etc. 149,508; Dec. 18.
Ingram, Mrs. E. W., Peoria, Ill. Complexion cream. 183,654; Dec. 18.
Johnson & McGrath Laboratory, Jefferson, Iowa. Remedy for treating skin diseases and skin infections. 180,010; Dec. 18.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Johnson Pharmaceutical Company, The, Woburn, Mass. Ointment. 184,167; Dec. 18.
Johnson, S. C. & Son, Racine, Wis. Valve-grinding compound. 182,099; Dec. 18.
Jones, George, & Sons, Limited, Stoke-upon-Trent, England. China and earthenware. 149,139; Dec. 18.
Jones, Vess, doing business as Whiz Company, New York, N. Y. Beverages sold as soft drinks and sirups for making same. 186,380; Dec. 18.
K & W Rubber Company. (See Krichbaum, Ora.)
Kell Milling Company, Vernon, Tex. Hard-wheat flour. 177,385; Dec. 18.
Kell Milling Company, Vernon, Tex. Hard-wheat flour. 181,127; Dec. 18.
Keystone Company of San Jose, The, also doing business as Keystone Company, San Jose, Calif. Canned vegetables and fruits, flavoring extracts, etc. 184,078; Dec. 18.
Keystone Laboratories, Roaring Springs, Pa. Germicides and disinfectants. 177,005; Dec. 18.
Kimble, Mary A., New Orleans, La. Medicated health tonic used in the treatment of kidney diseases, etc. 176,481; Dec. 18.
Kjelgaard, Gregers, G. B., Hoosick Falls, N. Y. Swimming apparatus. 187,822; Dec. 18.
Klamath River Packers Assn., Requa, Calif. Canned salmon. 184,864; Dec. 18.
Krichbaum, Ora, doing business as K & W Rubber Company, Delaware, Ohio. Pneumatic tires and inner tubes. 182,831; Dec. 18.
La Colla, Joseph, doing business as La Colla, Brooklyn, N. Y. Face creams, perfumes, rouges, etc. 170,937; Dec. 18.
Lageman, Clemens, doing business as H. Trommsdorff, Aix-la-Chapelle, Germany. Medical and pharmaceutical compounds and chemicals. 172,067; Dec. 18.
Lam-Té Mfg Co., Oklahoma, Okla. Cosmetics. 166,837; Dec. 18.
Larkin Co. Inc., Buffalo, N. Y. Soap, polishes, etc. 179,155; Dec. 18.
La Valliere Co., The, New Orleans, La. Toilet deodorant. 173,980; Dec. 18.
Leonard Seed Company, Chicago, Ill. Seeds, onion sets, and bulbs. 185,525; Dec. 18.
Lewis Manufacturing Company, Walpole, Mass. Cheesecloth. 186,240; Dec. 18.
Lifo Medicine Company. (See Sharrow, Geo. C.)
Locke Regulator Co., Salem, Mass. Pressure-reducing valves and pump governors. 177,789; Dec. 18.
Logan, Robert W., Fort Smith, Ark. Blood medicine. 183,037; Dec. 18.
Logan, Robert W., Fort Smith, Ark. Lung medicine. 183,038; Dec. 18.
Los Angeles Knitting Company, Los Angeles, Calif. Sweater coats, jerseys, bathing suits, and scarfs. 174,967–8; Dec. 18.
Lubricant Laxatives Corporation, The, Chicago, Ill. Emulsion of liquid paraffin. 185,976; Dec. 18.
McClure, C. W., Atlanta, Ga. Foods. 182,165; Dec. 18.
Macdonald, David B., Leicester, England. Boots, shoes, and slippers and their components. 184,087; Dec. 18.
Maison Maurice, Inc., New York, N. Y. Women's and misses' hats, dresses, coats, wraps, and capes. 186,481; Dec. 18.
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. 186,559; Dec. 18.
Mann, Clyde A., Chicago, Ill. Hand and manual book. 183,339; Dec. 18.
Mariba Co. (See Boethling, William C.)
Marshuetz, Leo J., doing business as Marshuetz & Company, Montgomery, Ala. Cotton cloth in the piece. 171,133; Dec. 18.
Mar-Son Medicine Co., St. Louis, Mo. Tooth paste for the treatment and prevention of pyorrhea. 183,844; Dec. 18.
Mastin & Company, Inc., New York, N. Y. Treatment for coughs, sore throat, etc. 184,173; Dec. 18.
Mastin & Company, Inc., New York, N. Y. Treatment for rheumatism, kidney, liver, and bladder complaints. 184,174; Dec. 18.
Medico-Dental Specialty Co., San Diego, Calif. Tooth-stain remover. 185,344; Dec. 18.
Memphis Drug Company, Inc., The, Memphis, Tenn. Perfumes, toilet water, face powder, etc. 166,892; Dec. 18.
Milligan, A. L., doing business as Chemical Products Co., Atlanta, Ga. Rat and mice poison and insecticide. 153,764; Dec. 18.
Milliken, Tomlinson Co., Portland, Me. Coffee, tea, chocolate, molasses, etc. 169,314; Dec. 18.
Minetti, Elinor V., San Francisco, Calif. Sweets and relishes. 182,217; Dec. 18.
Minox Co., The. (See Donohoe, Patrick J.)
Mittelstaedt, E., Inc., New York, N. Y. Padding for hair dressing. 187,833; Dec. 18.
Monsarrat Brothers Coal Co., The, Columbus, Ohio. Coal. 185,373; Dec. 18.
Moses-Rothchild Co., Incorporated, Louisville, Ky. Men's and youths' coats, vests, trousers, and overcoats. 187,228; Dec. 18.
Moyer Bros., Chicago, Ill. Pretzels. 183,311; Dec. 18.
Munsell, Jesse G., doing business as Munsell's Supply Company and Munsell's School of Health, Lincoln, Nebr. Tablets for food purposes only. 181,765; Dec. 18.
National Carbon Company, Inc., New York, N. Y. Dry batteries. 183,040; Dec. 18.
National Carbon Company, Inc., New York, N. Y. Dry batteries. 186,024; Dec. 18.
National Fruit Product Company, Inc., Alexandria, Va. Fresh apples. 186,388; Dec. 18.
Navelencia Fruit Growers, Navelencia, Calif. Fresh grapes. 184,618; Dec. 18.
Nelson, Mrs. Jane, doing business as Floralea Creme Co., San Antonio, Tex. Cold cream. 182,716; Dec. 18.
New England Fish Company, Boston, Mass. Canned salmon. 183,531; Dec. 18.
Newtown Giant Incubator Corporation, Harrisonburg, Va. Incubators, brooders, trap nests, etc. 184,254; Dec. 18.
Nizer Corporation, Detroit, Mich. Refrigerating units, refrigerators, etc. 187,438; Dec. 18.
North American Radio & Supply Corporation, The, New York, N. Y. Radio receiving and transmitting instruments and parts thereof. 168,936; Dec. 18.
Norwich Wire Works, Inc., Norwich, N. Y. Game traps. 183,848; Dec. 18.
O. F. Oil Burner Company, The. (See Falkenwalde, Oscar.)
Opera Omnia Limited, London, England. Face cream, toilet water, shampoo powder, etc. 182,220; Dec. 18.
Osborne Paper Company, Marion, Ind. Writing and school tablets, composition books, etc. 187,764; Dec. 18.
Owl Disinfectant Company, The. (See Fain, Jacob R.)
Pabst Corporation, Milwaukee, Wis. General medicinal tonic. 182,111–12; Dec. 18.
Parfumerie Roger & Gallet, Paris, France. Pastes and powders for the teeth, skin, and hair, and perfumery. 186,443; Dec. 18.
Park Mfg. Co. (See Cohane, Sylvester T.)
Parke, Davis & Company, Detroit, Mich. Dentifrice, cold cream, vanishing skin cream, and skin lotion. 183,851; Dec. 18.
Parke, Davis & Company, Detroit, Mich. Immunizing agents. 186,151; Dec. 18.
Parker-Young Company, The, Boston, Mass. Folding tables. 185,983; Dec. 18.
Pheno-Bane Products Company, Sand Springs, Okla., and St. Louis, Mo. Insecticide. 186,153; Dec. 18.
Pheno-Lyptol Co., The, Toyah, Tex. Ointment for the treatment of catarrh, colds, burns, etc. 174,635; Dec. 18.
Philippe, Louis, New York, N. Y. Perfumes, toilet waters, face powders, face creams, and rouge. 184,096; Dec. 18.
Philippe, Louis, New York, N. Y. Liquid massage. 184,260; Dec. 18.
Photoplating Company, The, Minneapolis, Minn. Designs and photographs on glass and metals. 166,536; Dec. 18.
Physio-Chemical Laboratories, Inc., Salt Lake City, Utah. Granular effervescing salt compound. 173,672; Dec. 18.
Pompeian Mfg. Company, The, Cleveland, Ohio. Face powder and cream. 186,026; Dec. 18.
Priestley, B., & Co., Inc., New York, N. Y. Cloths and piece goods of woolen, worsted, etc. 186,853–4; Dec. 18.
Q & C Company, The, New York, N. Y. Railway equipment. 151,996; Dec. 18.
Quinlan, H. T., & Company, St. Paul, Minn. Canned goods, stuffed olives, asparagus, etc. 116,694; Dec. 18.
R. K. M. Manufacturing Co., Newark, N. J. Covered hook and eye tapes. 181,411; Dec. 18.
Remlock Hills Laboratory. (See Remick, George E.)
Renard, Henry L., Philadelphia, Pa. Insecticides and fungicides. 183,993; Dec. 18.
Remick, George E., doing business as Remlock Hills Laboratory, Denver, Colo. Asthma treatment. 180,081; Dec. 18.
Rogers, John A., Yonkers, N. Y. Preparation for hair restoring and growing. 183,891; Dec. 18.
Romano, Jacques, New York, N. Y. Massage cream. 184,295; Dec. 18.
Rose, W. B., Chicago, Ill. Sunday-school publications. 186,722; Dec. 18.
Rosenthal-Porzellanfabrik vorm. Jac. Zeidler & Co., Bahnhof Selb, Germany. China. 170,547; Dec. 18.
Ross, Charles F., New York, N. Y. Healing salve. 183,454; Dec. 18.
Rowley, Alfred J., Toronto, Ontario, Canada. Concrete tiles and molds. 167,925; Dec. 18.
San Francisco Sulphur Co., San Francisco, Calif. Sulphur. 177,869; Dec. 18.
San Francisco Sulphur Co., San Francisco, Calif. Sulphur. 177,870; Dec. 18.
San Francisco Sulphur Co., San Francisco, Calif. Sulphur. 177,873; Dec. 18.
Schadt Brothers, Allentown, Pa. Foot powder, stomach regulator, corn remover, etc. 165,763; Dec. 18.
Schramm-Johnson, Drugs, Salt Lake City, Utah. Hair dressing, bath salts, almond-meal cream, etc. 143,666; Dec. 18.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Sea Coast Packing Co., Seattle, Wash. Canned salmon. 168,648; Dec. 18.
Selkow, Irving, doing business as Washington Barber Supply Co., New York, N. Y. Hair dressing. 184,525; Dec. 18.
Seltzer, Samuel, doing business as Seltzer & Rydholm, Inc., Auburn, Me. Beverages sold as soft drinks. 176,101; Dec. 18.
Sethness Company, Chicago, Ill. Sirup to be used in making a chocolate malted ice cream or drink. 174,264; Dec. 18.
Seward Wire Company, Parkersburg, W. Va. Rubber-covered electric wire cables. 181,317; Dec. 18.
Sexauer, J. A., Mfg. Co. Inc., New York, N. Y. Paste pipe cleaner. 184,872; Dec. 18.
Sharrow, Geo. C., doing business as Lifo Medicine Company, Columbus, Ohio. Medicine for the stomach, liver, kidneys, and bowels. 184,105; Dec. 18.
Sheehan, Jeremiah, Providence, R. I. Preparation for the treatment of piles. 186,028; Dec. 18.
Sig Chemical Co. (See Tomacelli, Maria.)
Simplex Electrical Laboratories, Inc., New York and Brooklyn, N. Y. Electrical instruments for adapting commercial alternating current for use in radio receiving circuits. 184,107; Dec. 18.
Sims, Wythe D., Birmingham, Ala. Hair dressings. 148,094; Dec. 18.
Smith, M. E., & Co., Inc., Omaha, Nebr. Dress aprons. 186,968; Dec. 18.
Smith, Pete, & Son, Cornucopia, Oreg. Preparation for use in the treatment of coughs and colds. 184,991; Dec. 18.
Smith, Robert H., Lewisburg, Tenn. Maltless sirups for carbonated beverages. 184,427; Dec. 18.
Société Anonyme d'Ougrée Marihaye, Ougree, near Liege, Belgium. Hammered and rolled steel. 167,501; Dec. 18.
Société Anonyme d'Ougrée Marihaye, Ougree, near Liege, Belgium. Steel rails. 167,502; Dec. 18.
Societe Anonyme Parfumerie Violet, Paris, France. Perfumes, toilet waters, face powders, etc. 178,145; Dec. 18.
Societe Francaise de Recherches et Applications Scientifiques, Paris, France. Remedy for treatment of fainting fits, etc. 184,188; Dec. 18.
Societe Francaise de Recherches et Applications Scientifiques, Paris, France. Remedy for treatment of fainting diseases. 184,189; Dec. 18.
Societe Guerlain, Paris, France. Perfumes. 183,769; Dec. 18.
Society of Chemical Industry in Basle, Basel, Switzerland. Chemical and pharmaceutical preparation. 186,298; Dec. 18.
Society of Chemical Industry in Basle, Basel, Switzerland. Chemical and pharmaceutical preparation. 186,395; Dec. 18.
Spongette Pure Food Company, Inc., Pittsburgh, Pa. Confectionery. 178,478; Dec. 18.
Springbrook Canning Company, Springbrook, Oreg. Canned fruits and berries. 185,055; Dec. 18.
Sta-Bak Makers. (See Trigg, Wade H.)
Starr Fruit Products Co., Portland, Oreg. Canned fruits and berries. 187,356; Dec. 18.
Stearns & Foster Company, The, Lockland, Ohio. Mattresses. 186,254; Dec. 18.
Stifel, J. L., & Sons, Wheeling, W. Va. Printed cotton cloth. 186,487; Dec. 18.
Stoner, Winifred S., New York, N. Y. Powder for cleansing and softening the skin. 184,693; Dec. 18.
Stothart's Drug Store, Augusta, Ga. Remedy for dyspepsia and indigestion. 183,542; Dec. 18.
Stuart Packing Corporation, Seattle, Wash. Canned salmon. 182,621; Dec. 18.
Sullivan, Marguerite, assignor to Domino House, Philadelphia, Pa. Vanishing cream. 183,419; Dec. 18.
Superior Chemical Company, Chicago, Ill. Chemical heat bags. 183,998; Dec. 18.
Supplee-Wills-Jones Milk Company, Philadelphia, Pa. Raw milk and cream, ice cream, etc. 163,473; Dec. 18.
Taiyo Trading Company, Inc., New York, N. Y. Canned crab meat. 182,274; Dec. 18.
Telulah Petralyke Company, Appleton, Wis. Visors for vehicles. 181,358; Dec. 18.
Tetlow, Clara, doing business as Tetlow Manufacturing Co., Philadelphia, Pa. Talcum powders. 183,422; Dec. 18.
Thacher Medicine Company, Chattanooga, Tenn. Tonic for female use. 186,398; Dec. 18.
Thatcher, H. D., & Company, Inc., Potsdam, N. Y. Butter and cheese coloring. 184,192; Dec. 18.
Thomas, E. M., Bessemer, Ala. Medicine for rheumatism, indigestion, etc. 184,875; Dec. 18.
Tidewater Chemical Company, New York, N. Y. Chemicals, colors, and fillers. 179,242; Dec. 18.
Tobrin Tool Company, The, Plantsville, Conn. Cold chisels, pipe wrenches, and screw drivers. 187,885; Dec. 18.
Tomacelli, Maria, doing business as Sig Chemical Co., New York, N. Y. Shampoo for the hair. 182,942; Dec. 18.
Traub's, H., Sons, Savannah, Ga. Canned tomatoes. 174,710; Dec. 18.
Trigg, Wade H., doing business as Sta-Bak Makers, Aberdeen, S. Dak. Hair tonic, hair dressing, and dandruff remover. 184,774; Dec. 18.
Trolley Supply Co., The, Massillon, Ohio. Gas heaters. 186,532; Dec. 18.
Trommsdorff, H. (See Lageman, Clemens.)
Turner & Walls, New York, N. Y. All-cotton, or silk and cotton, or silk and wool piece goods. 186,257; Dec. 18.
Tutelman & Kohn, Philadelphia, Pa. Shirts. 186,248; Dec. 18.
United Sanitary Products Company Inc., New York, N. Y. Liquid soap. 174,497; Dec. 18.
United States Alkali Export Association Inc., New York, N. Y. Caustic soda. 184,009; Dec. 18.
Universal Gypsum Company, Chicago, Ill. Plaster. 184,572; Dec. 18.
Vanderboget, Frank C., New York, N. Y. Baking powder. 185,269; Dec. 18.
Van Wasson Medicine Co., The, Talladega, Ala. Medicine for indigestion, gastritis, etc. 182,887; Dec. 18.
Vaughn, Edythe E., Bartow, Fla. Medicine for eczema, pyorrhea, and mange. 184,196; Dec. 18.
Voss & Stern, New York, N. Y. Silk piece goods. 177,933; Dec. 18.
Voss & Stern, New York, N. Y. Silk and cotton mixture goods and cotton piece goods. 177,938; Dec. 18.
Voss & Stern, New York, N. Y. Silk, cotton, silk and cotton, etc., piece goods. 184,045; Dec. 18.
Ward Baking Company, New York, N. Y. Breakfast cereal. 183,509; Dec. 18.
Washington Barber Supply Co. (See Selkow, Irving.)
Whiz Company. (See Jones, Vess.)
Wicks Pharmacal Co., Sparrows Point, Md. Healing salve. 175,418; Dec. 18.
Wisconsin Macaroni Company, Chicago, Ill. Macaroni. 158,205; Dec. 18.
Wuest, Adam, Cincinnati, Ohio. Box springs and mattresses. 187,598; Dec. 18.
Zukin, Joseph, Los Angeles, Calif. Aprons, dresses, and frocks. 177,888; Dec. 18.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 2.

Reels for hose. American Fork & Hoe Company. 177,387; Dec. 18; Serial No. 181,714; published Oct. 2, 1923.

CLASS 3.

Trunks, suitcases, valises, etc. Wm. Filene's Sons Company. 177,580; Dec. 18.

CLASS 4.

Chemical preparation for application to windshields. Fordyce & Jackson. 177,412; Dec. 18; Serial No. 180,756; published Sept. 25, 1923.
Cleanser for artificial teeth. F. Reiss. 177,374; Dec. 18; Serial No. 180,891; published Sept. 25, 1923.
Metal polish. H. G. Parrott. 177,313; Dec. 18. Serial No. 180,490; published Sept. 25, 1923.
Scrubbing compound. U. S. Sanitary Specialties Corporation. 177,560; Dec. 18; Serial No. 173,542; published Sept. 25, 1923.
Soap. U. S. Sanitary Specialties Corporation. 177,559; Dec. 18; Serial No. 173,545; published Sept. 25, 1923.
Soap. J. B. Williams Company. 177,510; Dec. 18; Serial No. 162,790; published Sept. 25, 1923.
Soaps, Toilet. J. Simon & Cie. 177,505; Dec. 18; Serial No. 150,772; published Oct. 2, 1923.

CLASS 6.

Blue, Laundry, Reckitts (U. S. A.), Ltd. 177,423; Dec. 18; Serial No. 162,137; published Sept. 25, 1923.
Cream, brilliantine, freckle cream, rouge, etc., Lemon. J. Caplan. 177,294; Dec. 18. Serial No. 175,131; published Sept. 25, 1923.
Creams, Toilet and vanishing. Davis & Lawrence. 177,367; Dec. 18; Serial No. 181,821; published Sept. 25, 1923.
Disinfectants, dyes, emulsion gelatin, etc. Röhm & Haas Aktiengesellschaft. 177,415; Dec. 18; Serial No. 165,888; published Sept. 25, 1923.
Hair dressing. A. J. Kleis. 177,463; Dec. 18; Serial No. 177,444; published Sept. 25, 1923.

Hair tonic. L. S. Beaver. 177,457; Dec. 18; Serial No. 178,374; published Sept. 25, 1923.
Hair tonic. F. V. Greco. 177,459; Dec. 18; Serial No. 182,051; published Sept. 25, 1923.
Hair tonic. Indiaroot Company. 177,359; Dec. 18; Serial No. 181,896. published Sept. 25, 1923.
Lotions and other pharmacentical preparations. M. A. London. 177,420; Dec. 18; Serial No. 164,441; published Sept. 25, 1923.
Medicinal compound. Jath's Camphorub Company. 177,292; Dec. 18; Serial No. 179,044; published Oct 16, 1923.
Ointment. National Physicians Supply Company. 177,424; Dec. 18; Serial No. 162,846; published Sept. 25, 1923.
Perfume, toilet water, talcum powder, cold cream, etc. Mills Brothers Company. 177,473; Dec. 18; Serial No. 175,318; published Sept. 25, 1923.
Perfumes and toilet waters. P. Poiret. 177,454–5; Dec. 18; Serial Nos. 178,467–8; published Sept. 25, 1923.
Perfumes and toilet waters. Paul Prot & Cie. 177,309; Dec. 18; Serial No. 170,081; published Sept. 25, 1923.
Perfumes, face powder, toilet water, cold cream, etc. Barr Manufacturing Corporation. 177,469; Dec. 18; Serial No. 176,107; published Sept. 25, 1923.
Powder, rouge, sachet and talcum powder, etc., Face. Mills Brothers Company. 177,472; Dec. 18; Serial No. 175,316; published Sept. 25, 1923.
Powder, Talcum. Remiller Co. 177,363; Dec. 18; Serial No. 181,866; published Sept. 25, 1923.
Preparation for dandruff, eczema, and falling hair. J. G. Page. 177,316; Dec. 18; Serial No. 180,294; published Sept. 25, 1923.
Preparation for hypodermic use. Instituto Nazionale Medico Farmacologico. 177,305; Dec. 18; Serial No. 171,848; published Sept. 18, 1923.
Preparation for relieving dyspepsia, etc., Nonalcoholic. C. Linahan. 177,360; Dec. 18; Serial No. 181,900; published Sept. 25, 1923.
Preparation for the hair. Silger Laboratories. 177,364; Dec. 18; Serial No. 181,869; published Sept. 25, 1923.
Preparation for the prevention and treatment of obesity. Gotham Corporation. 177,358; Dec. 18; Serial No. 181,887; published Sept. 25, 1923.
Preparation for use in treating tonsillitis, sore throat, and for a laxative. R. B. Smith. 177,323; Dec. 18; Serial No. 179,334; published Sept. 25, 1923.
Remedies for gonorrhea. A. L. Curtis. 177,357; Dec. 18; Serial No. 181,981; published Sept. 25, 1923.
Remedy for piles, colds in the chest, etc. S. Y. C. O. Co. 177,317; Dec. 18; Serial No. 180,241; published Sept. 25, 1923.
Salt, Table. International Salt Company. 177,354; Dec. 18; Serial No. 181,948; published Sept. 25, 1923.
Salt, Table. International Salt Company. 177,361; Dec. 18; Serial No. 181,947; published Sept. 25, 1923.
Spray solutions, Tree and plant. Sulpho-Napthol Company. 177,356; Dec. 18; Serial No. 181,964; published Sept. 25, 1923.
Toilet articles. Ger-Le Laboratories. 177,464; Dec. 18; Serial No. 176,403; published Sept. 25, 1923.

CLASS 7.

Rope, cord, and twine. American Manufacturing Company. 177,600; Dec. 18.

CLASS 8.

Pipes, cigar and cigarette holders, cases, boxes, etc. Gorham Manufacturing Company. 177,429; Dec. 18; Serial No. 152,246; published Sept. 25, 1923.

CLASS 13.

Drainpipe traps, slop sinks, etc. Donley Brothers Company. 177,408; Dec. 18; Serial No. 178,829; published Oct. 2, 1923.

CLASS 14.

Gold and bronze leaf. R. W. Grauert. 177,395; Dec. 18; Serial No. 181,391; published Oct. 2, 1923.
Rail anchors or anticreepers. P. & M. Company. 177,413; Dec. 18; Serial No. 180,238; published Oct. 2, 1923.

CLASS 15.

Oils and greases and gasoline, Lubricating. J. Lipin. 177,539; Dec. 18; Serial No. 183,630; published Oct. 2, 1923.
Oils and greases, Lubricating. Inter State Oil Company. 177,503; Dec. 18; Serial No. 139,971; published Oct. 2, 1923.
Oils and greases, Lubricating. J. G. Philips. 177,422; Dec. 18; Serial No. 160,080; published Sept. 19, 1922.

CLASS 16.

Dressing for painted and varnished surfaces and glass, Transparent. J. E. Dabner. 177,537; Dec. 18; Serial No. 183,873; published Oct. 2, 1923.
Lead, Substitutes for white. Firma R. Kranenburg. 177,533; Dec. 18; Serial No. 182,977; published Oct. 2, 1923.
Paint and varnish removers. Consolvo Manufacturing Co. 177,385; Dec. 18; Serial No. 181,475; published Oct. 2, 1923.
Paint, Prepared. Sewall Paint and Glass Company. 177,545; Dec. 18; Serial No. 183,320; published Oct. 2, 1923.
Paints, enamels, varnishes, etc. Thomson Wood Finishing Co. 177,380; Dec. 18; Serial No. 181,873; published Oct. 2, 1923.
Paints, oil colors, varnish, etc. E. C. Peck. 177,541; Dec. 18; Serial No. 183,499; published Oct. 2, 1923.
Polish, Furniture. Hayes & Armstrong. 177,548; Dec. 18; Serial No. 183,210; published Oct. 2, 1923.
Polish, Powdered. W. C. Tauch. 177,407; Dec. 18; Serial No. 179,171; published Oct. 2, 1923.
Polish, top dressing, paint enamel, Body. G. A. Cerny. 177,393; Dec. 18; Serial No. 181,338; published Oct. 2, 1923.
Protective composition in the nature of a paint for roofs. Ernst Zobel Company. 177,513; Dec. 18; Serial No. 163,208; published Oct. 2, 1923.
Varnish, Liquid. Glidden Company. 177,546; Dec. 18; Serial No. 183,378; published Oct. 2, 1923.
Varnish, stains, rendy-mixed paste, or dry fillers, and paints. L. R. Carley. 177,511; Dec. 18; Serial No. 160,588; published Oct. 2, 1923.
Wax for polishing. Z. Thompson. 177,525; Dec. 18; Serial No. 182,552; published Oct. 2, 1923.

CLASS 17.

Cigars. Havana Cigar and Tobacco Factories, Ltd. 177,459; Dec. 18; Serial No. 177,970; published Oct. 2, 1923.
Cigars. Havana Cigar and Tobacco Factories, Ltd. 177,461; Dec. 18; Serial No. 177,960; published Oct. 2, 1923.
Cigars. Tampa Cigar Company. 177,448; Dec. 18; Serial No. 182,115; published Oct. 2, 1923.
Cigars. Tampa Cigar Company. 177,445; Dec. 18; Serial No. 182,116; published Oct. 2, 1923.
Tobacco. Roth Tobacco Company. 177,453; Dec. 18; Serial No. 182,006; published Oct. 2, 1923.
Tobacco. Roth Tobacco Company. 177,451; Dec. 18; Serial No. 182,007; published Oct. 2, 1923.

CLASS 19.

Vehicle wheels, Spokes and nipples for. Torrington Company. 177,588; Dec. 18.

CLASS 21.

Electrical conductors, Woven tubes for. Tubular Woven Fabric Company. 177,608; Dec. 18.
Electrical inductances. J. L. Reinartz. 177,585; Dec. 18.
Horns, Radio loud-speaking. Sadler Manufacturing Company. 177,606; Dec. 18.
Spark plugs. Kant-Foul Spark Plug Company. 177,593; Dec. 18.
Tractors and locomotives. Automatic Transportation Co. 177,579; Dec. 18.

CLASS 22.

Dolls. P. P. Goerdeler. 177,350; Dec. 18; Serial No. 180,536; published Oct. 2, 1923.
Dolls, Cloth and stockinet. A. P. Hickman. 177,478; Dec. 18; Serial No. 183,382; published Oct. 2, 1923.
Fishlines. Os-Jaco Braided Line Co. 177,491; Dec. 18; Serial No. 182,987; published Oct. 2, 1923.
Game, Educational card. J. C. Shinn. 177,298; Dec. 18; Serial No. 174,217; published Oct. 2, 1923.
Merry-go-round. Oxford-Print. 177,430; Dec. 18; Serial No. 144,246; published Oct. 2, 1923.
Skates, baseballs, golf balls, etc. E. Byrnes. 177,446; Dec. 18; Serial No. 182,130; published Oct. 2, 1923.
Toy coaster vehicles. Wyoming Toy Mfg. Co. 177,479; Dec. 18; Serial No. 183,462; published Oct. 2, 1923.
Toy dogs, Fabric. P. F. Volland Co. 177,311; Dec. 18; Serial No. 167,342; published Oct. 2, 1923.
Toy electrical trains, Tracks for. Lionel Corporation. 177,431; Dec. 18; Serial No. 144,339; published Oct. 2, 1923.
Toys. Gong Bell Manufacturing Company. 177,421; Dec. 18; Serial No. 165,190; published Oct. 2, 1923.

CLASS 23.

Gear blanks and wheels. Diamond State Fibre Company. 177,542; Dec. 18; Serial No. 183,440; published Oct. 2, 1923.
Gear blanks and wheels. Diamond State Fibre Company. 177,543; Dec. 18; Serial No. 183,438; published Oct. 2, 1923.
Grass catchers. Canvas Products Company. 177,394; Dec. 18; Serial No. 181,376; published Oct. 2, 1923.
Knives, shears, razors, etc. Mac Lean Drug Company. 177,400; Dec. 18; Serial No. 178,756; published Oct. 2, 1923.
Motors for small craft, Outboard internal-combustion. Johnson Motor Co. 177,544; Dec. 18; Serial No. 183,385; published Oct. 2, 1923.
Pulleys, Fillers for power-transmission. Rockwood Manufacturing Company. 177,514; Dec. 18; Serial No. 163,113; published Oct. 2, 1923.
Razors and razor blades. American Safety Razor Corporation. 177,377; Dec. 18; Serial No. 181,101; published Oct. 2, 1923.

Vises, bit braces, breast drills, planes, and parts thereof, etc. Stanley Works. 177,405; Dec. 18; Serial No. 179,432; published Oct. 2, 1923.

CLASS 26.

Humidity regulators. Parks-Cramer Company. 177,523; Dec. 18; Serial No. 182,482; published Aug. 28, 1923.
Lamps and parts thereof, Picture-projection. J. Tyroler. 177,524; Dec. 18; Serial No. 182,524; published Oct. 2, 1923.
Picture films, Motion-. Radio-Films, Inc. 177,518; Dec. 18; Serial No. 166,149; published Oct. 2, 1923.

CLASS 27.

Watches, watchcases, and watch movements. Gruen Watch Company. 177,596; Dec. 18.

CLASS 29.

Brushes, Paint, varnish, and calcimine. Hanlon & Goodman Co. 177,326; Dec. 18; Serial No. 179,268; published Oct. 2, 1923.
Mops. Glenco Products Company. 177,468; Dec. 18; Serial No. 176,175; published Oct. 2, 1923.
Mops, dusters, brushes, Floor. U. S. Mop Company. 177,428; Dec. 18; Serial No. 150,170; published Oct. 2, 1923.
Polishing, cleaning, or dusting, Pieces of fabric used for. Economy Wiping Materials Co. 177,436; Dec. 18; Serial No. 182,468; published Oct. 2, 1923.
Powder puffs. Monarch Specialty Manufacturing Co. 177,439; Dec. 18; Serial No. 182,255; published Oct. 2, 1923.
Shoe-shining kits. F. F. Dalley Company. 177,485; Dec. 18; Serial No. 183,201; published Oct. 2, 1923.

CLASS 31.

Beverage coolers. Ho-Jay Corporation. 177,531; Dec. 18; Serial No. 182,811; published Oct. 2, 1923.

CLASS 32.

Counters, cafeteria tables, dressers, etc. Gunn Furniture Company. 177,564; Dec. 18; Serial No. 175,552; published Oct. 2, 1923.
Rug racks. F. Michelbach. 177,400; Dec. 18; Serial No. 177,613; published Sept. 25, 1923.
Table, Electrically-equipped serving. Nichols Electric Furniture Co. 177,470; Dec. 18; Serial No. 175,623; published Oct. 2, 1923.

CLASS 33.

Glass, glare shields of glass, and glass for automobiles, Window. Thoma & Son Inc. 177,441; Dec. 18; Serial No. 182,188; published Sept. 25, 1923.

CLASS 34.

Boilers, Steam. J. K. Petty & Company. 177,605; Dec. 18.
Stokers. Laclede-Christy Clay Products Company. 177,603; Dec. 18.

CLASS 37.

Binders, Loose-leaf. A. B. Plushkell. 177,391; Dec. 18; Serial No. 181,864; published Oct. 2, 1923.
Cardboard and fine correspondence paper and envelopes. Allan & Gray. 177,589; Dec. 18.
Fiber board and automobile panel material. G. E. Gagnier. 177,552–3; Dec. 18; Serial Nos. 183,107–8; published Oct. 2, 1923.
Paper and mailing envelopes, Writing. Chapin & Gould Paper Company. 177,519; Dec. 18; Serial No. 169,052; published Dec. 12, 1922.
Paper, bank-note wrappers, blank books. Levey Printing Company. 177,557; Dec. 18; Serial No. 173,505; published Sept. 18, 1923.
Paper, Bond. H. P. Andrews Paper Company. 177,601–2; Dec. 18.
Paper, Bond. J. J. Murphy Paper Co. 177,516; Dec. 18; Serial No. 163,529; published Sept. 5, 1922.
Paper, Coated book. McLaurin-Jones Co. 177,571; Dec. 18; Serial No. 176,844; published Oct. 2, 1923.
Paper, Crape. Papyrus Company. 177,499; Dec. 18; Serial No. 182,221; published Sept. 18, 1923.
Paper napkins, Package of. Paper Novelty Company. 177,538; Dec. 18; Serial No. 183,717; published Oct. 2, 1923.
Paper, Offset. American Writing Paper Company. 177,591–2; Dec. 18.
Paper used for printing or lithographing bank checks, etc. D. D. Madden & Co. 177,529; Dec. 18; Serial No. 182,713; published Oct. 2, 1923.
Paper, Wall. Arrow Paint & Wall Paper Company. 177,527; Dec. 18; Serial No. 182,643; published Sept. 11, 1923.
Paper, Wrapping. Diem & Wing Paper Co. 177,555; Dec. 18; Serial No. 183,056; published Oct. 2, 1923.
Paper, Writing, printing, etc. Chicago Paper Company. 177,522; Dec. 18; Serial No. 171,727; published Oct. 2, 1923.
Pencil clips. American Lead Pencil Company. 177,535; Dec. 18; Serial No. 182,462; published Oct. 2, 1923.

CLASS 38.

Bonds. Metzler & Company. 177,315; Dec. 18; Serial No. 180,338; published Oct. 2, 1923.
Books, Completely printed. Alfred A. Knopf, Inc. 177,307; Dec. 18; Serial No. 170,653; published Sept. 25, 1923.
Building plans and designs. R. J. Hughes. 177,353; Dec. 18; Serial No. 181,992; published Oct. 2, 1923.
Calendars, almanacs, printed books, etc., Wall. Levey Printing Company. 177,300; Dec. 18; Serial No. 173,506; published Sept. 25, 1923.
Calendars, almanacs, printed books, etc., Wall. Levey Printing Company. 177,301; Dec. 18; Serial No. 173,509; published Sept. 25, 1923.
Cards, sheets, and folders, Greeting. O. W. Goodbar. 177,414; Dec. 18; Serial No. 166,595; published Sept. 25, 1923.
Cartoons. R. W. Hertz. 177,296; Dec. 18; Serial No. 174,900; published Oct. 2, 1923.
Cartoons, Series of. Bell Syndicate, Inc. 177,343; Dec. 18; Serial No. 181,166; published Sept. 25, 1923.
Cartoons, Series of. F. J. Gaudé. 177,346; Dec. 18; Serial No. 181,069; published Oct. 2, 1923.
Catalogues. Ross & Company. 177,310; Dec. 18; Serial No. 169,327; published Oct. 2, 1923.
Labels, Adhesive printed. Industrial Engineering Research Co. 177,345; Dec. 18; Serial No. 181,076; published Sept. 25, 1923.
Magazine, Monthly. National School Supply Association. 177,344; Dec. 18; Serial No. 181,085; published Oct. 2, 1923.
Magazines, calendar cards, etc. Journeymen Barbers' International Union of America. 177,293; Dec. 18; Serial No. 175,247; published Oct. 2, 1923.
Newspaper. Victoria Murdock Estate. 177,314; Dec. 18; Serial No. 180,514; published Oct. 2, 1923.
Newspapers, etc., Heading for a humor column syndicated to. E. A. Moss. 177,434; Dec. 18; Serial No. 182,402; published Sept. 25, 1923.
Periodical. Sutton & Darbyshire, Incorporated. 177,449; Dec. 18; Serial No. 182,020; published Sept. 25, 1923.
Periodical, Monthly Marine. Penton Publishing Company. 177,447; Dec. 18; Serial No. 182,058; published Sept. 25, 1923.
Periodicals, American Manufacturers Foreign Credit Underwriters, Inc. 177,295; Dec. 18; Serial No. 175,120; published Oct. 2, 1923.
Periodicals, Olympic Club. 177,338; Dec. 18; Serial No. 181,206; published Sept. 25, 1923.
Photographs. Garred & Krause Drug Co. 177,337; Dec. 18; Serial No. 181,390; published Oct. 2, 1923.
Publication, Monthly. B. Mindlin. 177,351; Dec. 18; Serial No. 180,614; published Oct. 2, 1923.
Publication, Monthly. Modern Confectioner Publishing Company. 177,355; Dec. 18; Serial No. 181,957; published Sept. 25, 1923.
Publication, Monthly. A. G. Robinson. 177,495; Dec. 18; Serial No. 182,719; published Oct. 2, 1923.
Publication on the correction of stammering. S. D. Robbins. 177,471; Dec. 18; Serial No. 175,568; published Sept. 25, 1923.
Publication, Title of a quarterly. International Western Electric Company. 177,490; Dec. 18; Serial No. 182,973; published Oct. 2, 1923.
Publication, Weekly. Bragdon, Lord & Nagle Co. 177,372; Dec. 18; Serial No. 181,726; published Oct. 2, 1923.
Publications. A. Bowyer. 177,333; Dec. 18; Serial No. 181,669; published Sept. 25, 1923.

CLASS 39.

Apparel, Children's, misses', and women's wearing. Solomon Mfg. Co. 177,526; Dec. 18; Serial No. 167,663; published Sept. 4, 1923.
Boots, shoes, and slippers. Gebs Boot Shop. 177,409; Dec. 18; Serial No. 180,174; published Oct. 2, 1923.
Clothing. Guiterman Bros. 177,556; Dec. 18; Serial No. 173,354; published Oct. 2, 1923.
Clothing, Men's and youths'. Golitsky, Posner & Hock. 177,509; Dec. 18; Serial No. 153,807; published May 16, 1922.
Coats, Women's and children's. B. Birmbaum. 177,584; Dec. 18.
Dresses and suits. Solomon Mfg. Co. 177,402; Dec. 18; Serial No. 178,006; published Oct. 2, 1923.
Dresses, aprons, hosiery, etc. Milton G. Cooper Dry Goods Co. 177,347; Dec. 18; Serial No. 180,844; published Oct. 2, 1923.
Dresses, Children's. B. Altman & Co. 177,536; Dec. 18; Serial No. 184,051; published Oct. 9, 1923.
Dresses, suits, waists, etc., Ladies', misses', and children's knitted. Bab, Inc. 177,568; Dec. 18; Serial No. 176,532; published Aug. 21, 1923.
Dresses, Women's. L. Bamberger & Co. 177,308; Dec. 18; Serial No. 170,360; published Oct. 2, 1923.
Fur collars and cuffs. Edward Kolbert & Sons. 177,500; Dec. 18; Serial No. 182,248; published Oct. 2, 1923.
Garments, Ladies' outer. Morris W. Haft & Bros. Inc. 177,554; Dec. 18; Serial No. 183,064; published Oct. 2, 1923.
Garments, Women's. Pennsylvania Textile Mills, Inc. 177,362; Dec. 18; Serial No. 181,862; published Oct. 2, 1923.

Hosiery. Bear Brand Hosiery Co. 177,376; Dec. 18; Serial No. 181,165; published Oct. 9, 1923.
Hosiery. Bear Brand Hosiery Co. 177,566–7; Dec. 18; Serial Nos. 176,593–4; published Oct. 9, 1923.
Hosiery. C. F. Berg. 177,348; Dec. 18; Serial No. 180,833; published Oct. 2, 1923.
Hosiery. Chikman Knitting Mills. 177,609; Dec. 18.
Hosiery. Dormer Brothers Company. 177,574; Dec. 18; Serial No. 184,068; published Oct. 9, 1923.
Hosiery. C. H. Goepel, jr. 177,551; Dec. 18; Serial No. 183,110; published Oct. 2, 1923.
Hosiery. John W. Hadfield Co. 177,403; Dec. 18; Serial No. 179,791; published Oct. 9, 1923.
Hosiery. United Hosiery Mills Corporation. 177,563; Dec. 18; Serial No. 175,971; published Oct. 2, 1923.
Hosiery, Children's. "Onyx" Hosiery Inc. 177,528; Dec. 18; Serial No. 182,670; published Oct. 2, 1923.
Hosiery, underwear, sweater coats, shirts. Morris, Sloan, Morris & Co. 177,526; Dec. 18; Serial No. 182,601; published Oct. 2, 1923.
Knickerbockers. Solomon Mfg. Co. 177,517; Dec. 18. Serial No. 167,333; published Sept. 11, 1923.
Knit and woven underwear. Maline Mills Company. 177,501; Dec. 18; Serial No. 182,252; published Oct. 9, 1923.
Overalls and coats. King Lockwood Co. 177,532; Dec. 18; Serial No. 182,827; published Oct. 2, 1923.
Overalls, pants, children's play suits, shirts. A. E. Cohn. 177,586; Dec. 18.
Overcoats and suits. L. & M. System Clothes, Inc. 177,404; Dec. 18; Serial No. 179,733; published Oct. 9, 1923.
Overcoats and suits, Men's and boys'. Rogers Peet Company. 177,547; Dec. 18; Serial No. 183,231; published Oct. 9, 1923.
Shirts and children's blouses and play suits, Men's and boys' work. Nottage Company. 177,406; Dec. 18; Serial No. 179,422; published Oct. 2, 1923.
Shirts, Men's. A. Goldstein. 177,581; Dec. 18.
Shirts, Men's dress and negligee. Stetson Shirt Co. 177,411; Dec. 18; Serial No. 179,834; published Oct. 2, 1923.
Shirts, trousers, and overalls, Work. Blue Ridge Manufacturing Company. 177,595; Dec. 18.
Suits, Boys'. Crippen & Reid. 177,549; Dec. 18; Serial No. 183,198; published Oct. 9, 1923.
Sweater coats, knitted caps, woolen hosiery, etc. Hercules Knitting Co. 177,410; Dec. 18; Serial No. 180,120; published Oct. 2, 1923.
Sweaters and bathing suits. C. Franklin. 177,321; Dec. 18; Serial No. 180,117; published Oct. 2, 1923.
Sweaters, cardigan jackets, bathing suits. Appel-Hall. 177,576; Dec. 18; Serial No. 184,054; published Oct. 9, 1923.
Ties, cravats. Friedman Bros. & Sons Neckwear Co. 177,550; Dec. 18; Serial No. 183,144 published Oct. 9, 1923.
Trousers, overalls, shirts, etc. New Castle Notion Company. 177,382; Dec. 18; Serial No. 181,905; published Oct. 2, 1923.
Undergarments. Woven silk. Hughes & Bradley Co. 177,565; Dec. 18; Serial No. 175,450; published Oct. 2, 1923.
Underwear union suit. C. G. Wright. 177,378; Dec. 18; Serial No. 181,097; published Oct. 2, 1923.
Underwear, Women's. Marshall Field & Company. 177,392; Dec. 18; Serial No. 181,267; published Oct. 2, 1923.

CLASS 40.

Braid, braided tapes, elastic laces, etc. Arch Narrow Fabric Company. 177,396; Dec. 18; Serial No. 181,470; published Oct. 2, 1923.
Dress shields, elastic webbing, shirred elastic ribbon. A. Stein & Company. 177,534; Dec. 18; Serial No. 183,004; published Oct. 2, 1923.
Hair wavers. McConnell Manufacturing Company. 177,397; Dec. 18; Serial No. 181,204; published Oct. 2, 1923.
Pins, Safety. W. T. Grant Company. 177,390; Dec. 18; Serial No. 181,329; published Oct. 2, 1923.
Stilettos, hooks and eyes, snap fasteners, etc., Bone. William Prym Company. 177,506; Dec. 18; Serial No. 148,617; published Oct. 2, 1923.

CLASS 41.

Umbrella and parasol ribs. S. W. Evans & Son. 177,474; Dec. 18; Serial No. 185,010; published Oct. 2, 1923.
Umbrella and parasol ribs. S. W. Evans & Son. 177,476; Dec. 18; Serial No. 185,009; published Oct. 2, 1923.
Umbrellas and parasols. G. S. Berman. 177,349; Dec. 18; Serial No. 180,834; published Oct. 2, 1923.
Umbrellas and parasols. J. Grossman. 177,569; Dec. 18; Serial No. 176,341; published Sept. 11, 1923.

CLASS 42.

Coatings in the piece, Bolivia. C. Bahnsen & Co. 177,303–4; Dec. 18; Serial Nos. 172,461–2; published Sept. 25, 1923.
Cotton cloth and white shoe cloth. Backing or reenforcing. Peters Brothers Rubber Co. 177,312; Dec. 18; Serial No. 167,098; published Sept. 25, 1923.
Cotton-cloth piece goods. Leon Michael & Co. 177,570; Dec. 18; Serial No. 177,136; published Sept. 25, 1923.
Cotton piece goods. Brune, Pottberg & Co. 177,484; Dec. 18; Serial No. 183,192; published Sept. 25, 1923.
Cotton piece goods. Brune, Pottberg & Co. 177,488; Dec. 18; Serial No. 183,188; published Sept. 25, 1923.
Cotton piece goods. Brune, Pottberg & Co. 177,489; Dec. 18; Serial No. 183,191; published Sept. 25, 1923.
Cotton piece goods. Doptaglou Bros. of New York. 177,465; Dec. 18; Serial No. 177,079; published Sept. 25, 1923.
Cotton piece goods. Passaic Print Works. 177,425; Dec. 18; Serial No. 156,412; published Sept. 18, 1923.
Cotton piece goods. Wilton Manufacturing Company. 177,480; Dec. 18; Serial No. 183,787; published Sept. 18, 1923.
Cotton piece goods, linen piece goods, and toweling. Carl Company. 177,366; Dec. 18; Serial No. 181,813; published Sept. 25, 1923.
Dry goods. Farley Harvey Company. 177,486; Dec. 18; Serial No. 183,205; published Sept. 25, 1923.
Hair nets. I. Trotsky. 177,437; Dec. 18; Serial No. 182,452; published Sept. 25, 1923.
Laces, handkerchiefs, embroideries, etc. Nottingham Lace Works. 177,322; Dec. 18; Serial No. 179,317; published Sept. 25, 1923.
Linen piece goods. J. A. Finn & Company. 177,481; Dec. 18; Serial No. 183,207; published Sept. 25, 1923.
Rugs, Chenille. Firth Carpet Company. 177,487; Dec. 18; Serial No. 183,142; published Sept. 25, 1923.
Silk and satin piece goods. McLane Silk Company. 177,483; Dec. 18; Serial No. 183,221; published Sept. 25, 1923.
Silk, cotton, and a mixture of silk and cotton piece goods. A. S. Rosenthal Company. 177,494; Dec. 18; Serial No. 182,933; published Sept. 25, 1923.
Silk in the piece, Artificial. R. H. Macy & Co. 177,438; Dec. 18; Serial No. 182,314; published Sept. 25, 1923.
Silk piece goods. Duplan Silk Corporation. 177,477; Dec. 18; Serial No. 183,262; published Sept. 25, 1923.
Silk piece goods. Empire Silk Company. 177,342; Dec. 18; Serial No. 181,177; published Sept. 25, 1923.
Textile fabrics. International Worsted Mills. 177,482; Dec. 18; Serial No. 183,214; published Sept. 25, 1923.
Textile fabrics. Schweiz. Decken- und Tuchfabriken Pfungen-Turbenthal. 177,335; Dec. 18; Serial No. 181,571; published Sept. 25, 1923.
Textile fabrics, foulards, etc., Dyed and printed. United Piece Dye Works. 177,466; Dec. 18; Serial No. 177,152; published Sept. 25, 1923.
Ticking. P. R. Mitchell Co. 177,325; Dec. 18; Serial No. 178,931; published Sept. 25, 1923.
Woolen, worsted piece goods. Bell Company. 177,324; Dec. 18; Serial No. 179,769; published Sept. 18, 1923.

CLASS 43.

Yarns, Cotton. John F. Street & Co. 177,475; Dec. 18; Serial No. 184,152; published Sept. 25, 1923.

CLASS 44.

Catheters, ear and ulcer syringes, finger cots, etc. Blackman & Blackman. 177,320; Dec. 18; Serial No. 179,986; published Sept. 4, 1923.
Dental alloys and cements. Dental Protective Supply Company. 177,540; Dec. 18; Serial No. 183,519; published Oct. 2, 1923.
Dental tools, instruments, and supplies. Detroit Dental Manufacturing Company. 177,386; Dec. 18; Serial No. 181,592; published Oct. 2, 1923.
Lamps and radiators for therapeutic use, Electric. L. Steiner. 177,433; Dec. 18; Serial No. 125,441; published Apr. 13, 1920.
Manicure implements. B. Wigder. 177,512; Dec. 18; Serial No. 159,341; published Oct. 2, 1923.
Shaving lather-forming devices, Mechanical. Wager Manufacturing Corporation. 177,598; Dec. 18.

CLASS 45.

Beverage sold as a soft drink. C. E. May. 177,456; Dec. 18; Serial No. 178,347; published Oct. 2, 1923.
Beverage sold as a soft drink. Pabst Corporation. 177,339; Dec. 18; Serial No. 181,210; published Oct. 2, 1923.
Beverages. Cantrell & Cochrane, Limited. 177,370; Dec. 18; Serial No. 181,672; published Oct. 2, 1923.
Beverages. W. P. Powers. 177,416; Dec. 18; Serial No. 165,809; published Oct. 2, 1923.
Beverages and compounds for making same. Good-Grape Company. 177,327; Dec. 18; Serial No. 178,720; published Oct. 2, 1923.
Beverages and sirups used in making same. Ho-Jay Corporation. 177,493; Dec. 18; Serial No. 182,812; published Oct. 2, 1923.
Beverages sold as soft drinks. Florida Products Company. 177,435; Dec. 18; Serial No. 182,506; published Oct. 2, 1923.
Beverages sold as soft drinks and sirups used in the preparation of same. Chicago Beverage Co. 177,575; Dec. 18; Serial No. 184,712; published Oct. 9, 1923.
Drinks, Soft. Monadnock Beverage Company. 177,492; Dec. 18; Serial No. 183,118; published Oct. 2, 1923.
Flavoring for making beverages. Davies, Rose & Co. 177,426; Dec. 18; Serial No. 156,480; published Oct. 2, 1923.

Sirup, acids, etc., for beverage purposes. Northwestern Bakers & Confectioners Co. 177,369; Dec. 18; Serial No. 181,856; published Oct. 2, 1923.
Sirup for making a citrous beverage. Sethness Company. 177,302; Dec. 18; Serial No. 173,147; published Oct. 2, 1923.
Water and root beer and fruit-flavored soft drinks, Table. Pabst Corporation. 177,340; Dec. 18; Serial No. 181,215; published Oct. 2, 1923.

CLASS 46.

Bread. Hillsdale Baking Company. 177,442–3; Dec. 18; Serial Nos. 182,149–50; published Oct. 2, 1923.
Bread. Ward Baking Company. 177,502; Dec. 18; Serial No. 182,322; published Oct. 2, 1923.
Butter. Nickel & Drummey. 177,328; Dec. 18; Serial No. 178,624; published Sept. 25, 1923.
Butter. Rugby Creamery. 177,388; Dec. 18; Serial No. 181,779; published Oct. 2, 1923.
Candies. John B. Arata, Jr., Inc. 177,352; Dec. 18; Serial No. 180,515; published Sept. 11, 1923.
Candy. F. K. Underwood. 177,306; Dec. 18; Serial No. 170,959; published Sept. 25, 1923.
Canned goods. South Chicago Wholesale Grocery and Produce Company. 177,389; Dec. 18; Serial No. 181,784; published Oct. 9, 1923.
Canned goods, spices, etc. Jett & Wood Mercantile Company. 177,458; Dec. 18; Serial No. 178,253; published Oct. 2, 1923.
Cantaloupes and lettuce. S. McHarg. 177,521; Dec. 18; Serial No. 167,409; published Oct. 9, 1923.
Catchup, Tomato. Welch Grape Juice Company. 177,583; Dec. 18.
Caviar. S. Rosenberg. 177,401; Dec. 18; Serial No. 178,361; published Aug. 7, 1923.
Cheese. A. H. Barber & Co. 177,383; Dec. 18; Serial No. 182,040; published Oct. 2, 1923.
Cheese. A. H. Barber & Co. 177,384; Dec. 18; Serial No. 182,042; published Oct. 2, 1923.
Cheese. Carl Marty & Company. 177,381; Dec. 18; Serial No. 181,904; published Oct. 2, 1923.
Cookies. Genevieve Jackson, Inc. 177,604; Dec. 18.
Cookies, cakes, and crackers. J. S. Ivins' Son, Inc. 177,365; Dec. 18; Serial No. 181,749; published Oct. 2, 1923.
Crackers and biscuits. F. L. Jones Co. 177,432; Dec. 18; Serial No. 117,980; published Sept. 25, 1923.
Feed and meal, Hog. United Chemical and Organic Products Co. 177,398; Dec. 18; Serial No. 182,191; published Oct. 2, 1923.
Feed, Cattle. Eastern States Farmers' Exchange. 177,379; Dec. 18; Serial No. 182,142; published Oct. 2, 1923.
Flavoring extracts and table sirups, Food. Bickford Laboratories Company. 177,607; Dec. 18.
Flavoring extracts, spices, celery seed, etc. A. G. Fenton. 177,577; Dec. 18; Serial No. 177,966; published Oct. 2, 1923.
Flour, canned fruits, vegetables, etc., Wheat. L. Klein, Inc. 177,561; Dec. 18; Serial No. 174,310; published Sept. 18, 1923.
Flour, Wheat. Black Bros. Flour Mills. 177,497; Dec. 18; Serial No. 182,396; published Oct. 2, 1923.
Flour, Wheat. Hecker-Jones-Jewell Milling Company. 177,530; Dec. 18; Serial No. 182,807; published Oct. 2, 1923.
Flour, Wheat. Highland Milling Company. 177,572; Dec. 18; Serial No. 177,740; published Oct. 2, 1923.
Flour, Wheat. Kehlor Flour Mills Company. 177,496; Dec. 18; Serial No. 182,419; published Oct. 2, 1923.
Flour, Wheat. J. C. Lysle Milling Company. 177,578; Dec. 18; Serial No. 173,098; published Oct. 2, 1923.
Flour, Wheat. Quaker Oats Company. 177,562; Dec. 18; Serial No. 174,916; published June 5, 1923.
Flour, Wheat. Quaker Oats Company. 177,573; Dec. 18; Serial No. 177,452; published Oct. 2, 1923.
Flour, Wheat. N. Sauer Milling Company. 177,508; Dec. 18; Serial No. 153,787; published Oct. 2, 1923.
Flour, Wheat. Willis Norton & Co. 177,498; Dec. 18; Serial No. 182,325; published Oct. 2, 1923.
Fruit, Fresh citrous. Mupu Citrus Association. 177,444; Dec. 18; Serial No. 182,169; published Oct. 2, 1923.
Fruits, Citrous. Gold Buckle Association. 177,558; Dec. 18; Serial No. 173,643; published Sept. 25, 1923.
Fruits, Dried, Gile & Jenks. 177,375; Dec. 18; Serial No. 180,858; published Sept. 25, 1923.
Fruits, Fresh and canned. Kings County Packing Company. 177,594; Dec. 18.
Fruits, Fresh citrous. Mupu Citrus Association. 177,440; Dec. 18; Serial No. 182,171; published Oct. 2, 1923.
Fudge bars or rolls. R. W. Lovering. 177,368; Dec. 18; Serial No. 181,837; published Sept. 25, 1923.
Gelatin. Lijm-en-Gelatinefabriek-Delft. 177,599; Dec. 18.
Ice cream. Hanselman Candy Company. 177,399; Dec. 18; Serial No. 159,580; published Oct. 2, 1923.
Ice cream. Miller Ice Cream Company. 177,587; Dec. 18.
Iced confections. Ice Poles, Inc. 177,515; Dec. 18; Serial No. 164,760; published Oct. 2, 1923.
Lard. E. Godel & Sons. 177,418; Dec. 18; Serial No. 165,586; published Oct. 2, 1923.
Malt extract, Pure. Pacific Malt & Hop Co. 177,507; Dec. 18; Serial No. 152,767; published Sept. 18, 1923.
Milk, Condensed. Nestlé & Anglo-Swiss Condensed Milk Co. 177,427; Dec. 18; Serial No. 157,629; published Sept. 18, 1923.
Milk, Evaporated. Defiance Dairy Products Company. 177,209; Dec. 18; Serial No. 174,129; published Oct. 2, 1923.
Milling products. Berea Milling Co. 177,504; Dec. 18; Serial No. 145,933; published Apr. 3, 1923.
Nuts, Mixed. Graham Co. 177,597; Dec. 18.
Potatoes. E. Kahn. 177,336; Dec. 18; Serial No. 181,640; published Oct. 2, 1923.
Pretzels. D. F. Stauffer Biscuit Co. 177,373; Dec. 18; Serial No. 180,903; published Sept. 25, 1923.
Shrimp, Dried. Blum & Bergeron. 177,341; Dec. 18; Serial No. 181,168; published Oct. 2, 1923.
Sirup. Corn Products Refining Company. 177,329–32; Dec. 18; Serial Nos. 178,593–6; published Oct. 2, 1923.
Sugar. Flamingo Sugar Mills, Inc. 177,371; Dec. 18; Serial No. 181,687; published Oct. 2, 1923.
Thousand Island and mayonnaise dressing. E. G. Nelson & Son. 177,297; Dec. 18; Serial No. 174,849; published Oct. 2, 1923.

CLASS 47.

Wine, Champagne. Societe Vinicole de Champagne. 177,417; Dec. 18; Serial No. 165,215; published Oct. 2, 1923.
Wine, Champagne. Societe Vinicole de Champagne. 177,419; Dec. 18; Serial No. 165,211; published Aug. 14, 1923.
Wines. Soc. An. Fsco. Cinzano & Cia. 177,318; Dec. 18; Serial No. 180,246; published Oct. 2, 1923.

CLASS 48.

Malt extract. P. H. Schwartz. 177,452; Dec. 18; Serial No. 182,013; published Oct. 2, 1923.
Sirups, Malt. W. Graf. 177,334; Dec. 18; Serial No. 181,443; published Oct. 2, 1923.

CLASS 49.

Absinthe, brandy, gin, etc. Soc. An. Fsco. Cinzano & Cia. 177,319; Dec. 18; Serial No. 180,247; published Oct. 2, 1923.
Whisky, Scotch. Wm. Grant & Sons, Ltd. 177,462; Dec. 18; Serial No. 177,222; published Oct. 2, 1923.
Whisky, Scotch. Wm. Grant & Sons, Ltd. 177,467; Dec. 18; Serial No. 177,221; published Oct. 2, 1923.

CLASS 50.

Incubators and brooders. Leahy Manufacturing Co. 177,590; Dec. 18.
Mats, Leather floor. Standard Heel & Counter Co. 177,582; Dec. 18.

ALPHABETICAL LIST OF LABELS.

Apricot Sheik. For Soft Beverages of Apricot Flavor. King and Company. 26,689; Dec. 18.
Chief Brand, The Universal Hydrated Lime. For Hydrated Lime and Lime Products. Chief Consolidated Mining Co. 26,686; Dec. 18.
Clover Dew. For Creamery Butter. Midwest Creamery Co. 26,696; Dec. 18.
Dutch Maid. For Old-Fashioned Bittersweets. Milwaukee Paper Box Company. 26,697; Dec. 18.
Gran'ma's Extra Quality. For Bread. Markert & Waybright. 26,690; Dec. 18.
Holsum. For Bread. Menasha Printing and Carton Company. 26,691; Dec. 18.
Leather Plaiting Outfit. For Outfits Which Include Leather Cutting and Plaiting Implements for Forming and Plaiting Leather Strips or Thongs. L. E. Griswold. 26,688; Dec. 18.
Liquid El Vampiro. For a Liquid Spray for Flies, Mosquitoes, Moths, Fleas, Bedbugs, Lice, Cockroaches, and Ants. Allaire, Woodward & Co. 26,685; Dec. 18.
Lyons' California Orchard Scenes, Series No. 2. For Glacé Fruits. J. C. Raas. 26,702; Dec. 18.
Moon-Glow. For Assorted Chocolates. Milwaukee Paper Box Company. 26,698; Dec. 18.
Murell's Handcleaner Claro. For Soap Powder. P. Muller. 26,701; Dec. 18.
Perfection. For Ice Cream. Menasha Printing and Carton Company. 26,694; Dec. 18.
Perry's. For Ice Cream. Menasha Printing and Carton Company. 26,693; Dec. 18.
Quality. For Butter. Menasha Printing and Carton Company. 26,695; Dec. 18.
Radcose. For a Nonfreezing Solution for Automobile, Truck, and Tractor Radiators. Lee-Strauss Co. 26,687; Dec. 18.
Riverdale. For Creamery Butter. John Morrell & Co. 26,699; Dec. 18.
Riverdale. For Sugar Peas. John Morrell & Co. 26,700; Dec. 18.

Rosen's Peanut Brittle. For Peanut Brittle. E. Rosen Company. 26,703; Dec. 18.
S and W. For Canned Grapefruit. Sussman, Wormser & Co. 26,706; Dec. 18.
S and W Calasia Figs. For Whole Figs Canned, Preserving Natural Flavor of Fresh Figs. Sussman, Wormser & Co. 26,705; Dec. 18.
Uncle Wiggily's Balloon—Bang! For Toy Balloons. Fred A. Wish, Inc. 26,709; Dec. 18.
Uncle Wiggily's Parade. For Toy Balloons. Fred A. Wish, Inc. 26,708; Dec. 18.
Velvet Brand. For Butter. Menasha Printing and Carton Company. 26,692; Dec. 18.
Ward's Dainty Dimple Donuts. For Doughnuts. Ward Baking Company. 26,707; Dec. 18.
Wedding Ring Coffee. For Coffee. J. Shapiro. 26,704; Dec. 18.

ALPHABETICAL LIST OF PRINTS.

A Baby In Your Home. For a Proprietary Remedy for Use in the Treatment of Sterility in Women. H. W. Elders, M. D. 7,092; Dec. 18.
A Joy to the Epicure. For Ice Cream. Frederick C. Mathews Company. 7,098; Dec. 18.
Arrow Shirts—Gordon—Spencer. For Shirts. Cluett, Peabody & Co. 7,089; Dec. 18.
Arrow Shirts—The Arrow Shirt makers depend, etc. For Shirts. Cluett, Peabody & Co. 7,090; Dec. 18.
Arrow Shirts—This is Spencer 10, an Arrow Shirt designed, etc. For Shirts. Cluett, Peabody & Co. 7,091; Dec. 18.
Here's Happiness! Just Use Bluebirds For Happiness. For Liver Pills. Bluebird Pharmacal Co. 7,087; Dec. 18.
M. J. B. Coffee 'Exceeds All Expectations'. For Coffee. M. J. Brandenstein & Co. 7,088; Dec. 18.
Quality made. For Coffee. Hills Bros. 7,097; Dec. 18.
Reef Brand Crushed Oyster Shell For Poultry. For Crushed Oyster Shell. Gulf Crushing Co. 7,093; Dec. 18.
The delicious aroma of an opened can is a promise of the full-flavored cup to come Quality made it. For Coffee. Hills Bros. 7,096; Dec. 18.
The Flavor Difference. For Coffee. Hills Bros. 7,094; Dec. 18.
The High Quality makes friends. For Coffee. Hills Bros. 7,095; Dec. 18.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 1.

Coal. Monsarrat Brothers Coal Co. 185,373; Dec. 18.
Seeds, onion sets, and bulbs. Leonard Seed Company. 185,525; Dec. 18.

CLASS 4.

Soap, Liquid. United Sanitary Products Company. 174,497; Dec. 18.
Soap, polishes, etc. Larkin Co. 179,155; Dec. 18.
Toilet soaps. Coty, Inc. 180,106; Dec. 18.
Valve-grinding compound. S. C. Johnson & Son. 182,099; Dec. 18.

CLASS 6.

Agents against exhaustion. Farbenfabriken vorm. Friedr. Bayer & Co. 186,005; Dec. 18.
Agents against parasitic and nonparasitic skin diseases. Farbenfabriken vorm. Friedr. Bayer & Co. 186,004; Dec. 18.
Anæsthetic. Farbenfabriken vorm. Friedr. Bayer & Co. 186,003; Dec. 18.
Antiseptic germicide and deodorant. P. J. Donohoe. 185,110; Dec. 18.
Antiseptic. Urinary. Clausen-Zoller Company. 183,819; Dec. 18.
Antiseptics and stimulants, Throat and voice. Ferris and Company. 182,743; Dec. 18.
Asthma treatment. G. E. Remick. 180,081; Dec. 18.
Baking powder. F. C. Vanderboget. 185,269; Dec. 18.
Boiler compound. Bennett Rubber Co. 183,729; Dec. 18.
Chemical and pharmaceutical preparation. Society of Chemical Industry in Basle. 186,298. Dec. 18.
Chemical and pharmaceutical preparations. Society of Chemical Industry in Basle. 186,395; Dec. 18.
Chemicals, colors, and fillers. Tidewater Chemical Company. 179,242; Dec. 18.
Chemicals for the removal of sulphur, etc., from molten iron and other metals. Chemical Treatment Company. 176,602; Dec. 18.
Coloring. H. H. Thatcher & Company. 184,192; Dec. 18.
Cosmetics. Lam-To Mfg. Co. 166,837; Dec. 18.
Cream, Cold. Mrs. J. Nelson. 182,716; Dec. 18.
Cream, Complexion. Mrs. E. W. Ingram. 183,654; Dec. 18.
Cream, lemon emollient, etc., Lemon and vanishing. J. T. Gallagher. 174,240; Dec. 18.
Cream, Massage. J. Romano. 184,295; Dec. 18.
Cream, toilet water, shampoo powder, etc., Face. Opera Omnia Limited. 182,220; Dec. 18.
Cream, Vanishing. M. Sullivan. 183,419; Dec. 18.
Creams, perfumes, toilet waters, etc., Face. J. La Colla. 170,937; Dec. 18.
Creams, talcum powder, astringent, etc. Z. E. Burgess. 185,954; Dec. 18.
Dental cream. Doctor W. A. Allen Company. 185,000; Dec 18.
Dental preparation. L. D. Caulk Company. 184,118; Dec. 18.
Dentifrice, cold cream, vanishing skin cream, and skin lotion. Parke, Davis & Company. 183,851; Dec. 18.
Deodorant, Toilet. La Valliere Co. 183,980; Dec. 18.
Disinfectant. J. R. Fain. 184,900; Dec. 18.
Foot powder, stomach regulator, etc. Schadt Brothers. 165,763; Dec. 18.
Germicides and disinfectants. Keystone Laboratories. 177,005; Dec. 18.
Hair dressing. I. Selkow. 184,525; Dec. 18.
Hair dressing, bath salts, etc. Schramm-Johnson, Drugs. 143,666; Dec. 18.
Hair dressings. W. D. Sims. 148,094; Dec. 18.
Hair grower. Hill & Jackson. 184,074; Dec. 18.
Hair shampoo. M. Tomacelli. 182,942; Dec. 18.
Hair tonic, hair dressing, and dandruff remover. W. H. Trigg. 184,774; Dec. 18.
Headache and neuralgia powders. Columbus Chemical Company. 165,747; Dec. 18.
Heat bags, Chemical. Superior Chemical Company. 183,998; Dec. 18.
Immunizing agents. Parke, Davis & Company. 186,151; Dec. 18.
Insecticide. J. R. Fain. 184,898–9; Dec. 18.
Insecticide. Hits-It M'f'g Co. 186,129; Dec. 18.
Insecticide. Pheno-Bane Products Company. 186,153; Dec. 18.
Insecticides and disinfectants. J. R. Fain. 184,901; Dec. 18.
Insecticides and fungicides. H. L. Renard. 183,993; Dec. 18.
Laxative. M. H. Herskowitz. 182,472; Dec. 18.
Laxative tea. F. Dedek. 184,124; Dec. 18.
Massage, Liquid. L. Philippe. 184,260; Dec. 18.
Medical and pharmaceutical compounds and chemicals. C. Lageman. 172,067; Dec. 18.
Medicinal preparations. J. Ferran Cina. 165,914; Dec. 18.
Medicinal remedy for cholera, roup, etc., in poultry and pigeons. "H. W." Company. 184,447; Dec. 18.
Medicine. G. C. Sharrow. 184,105; Dec. 18.
Medicine, Blood. R. W. Logan. 183,037; Dec. 18.
Medicine for eczema, pyorrhea, and mange. E. E. Vaughan. 184,196; Dec. 18.
Medicine for indigestion, etc. Van Wasson Medicine Co. 182,887; Dec. 18.
Medicine for rheumatism, indigestion, etc. E. M. Thomas. 184,575; Dec. 18.
Medicine for treatment of tuberculosis. A. Gimenez y Moreno. 169,137; Dec. 18.
Medicine, Lung. R. W. Logan. 183,038; Dec. 18.
Ointment. J. Forcier. 169,898; Dec. 18.
Ointment. Johnson Pharmaceutical Company. 184,167; Dec. 18.
Ointment. Pheno-Lyptol Co. 174,635; Dec. 18.
Ointment for the treatment of eczema, etc. W. Andrews. 175,231; Dec. 18.
Oxygen and hydrogen gases. Boston Electrolytic Oxygen Company. 184,639; Dec. 18.
Paraffin, Emulsion of liquid. Lubricant Laxatives Corporation. 185,976; Dec. 18.
Pastes, powders, and perfumery. Parfumerie Roger & Gallet. 186,443; Dec. 18.
Perfume, toilet water, face and talcum powders, etc. Houbigant, Inc. 184,910–11; Dec. 18.
Perfumes. Coty, Inc. 180,102; Dec. 18.
Perfumes. Societe Guerlain. 183,769; Dec. 18.
Perfumes, toilet water, and eau de cologne. Coty, Inc. 180,100; Dec. 18.
Perfumes, toilet water, face powder, etc. Coty, Inc. 180,103; Dec. 18.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Perfumes, toilet water, face powder, etc. Memphis Drug Company. 166,892; Dec. 18.
Perfumes, toilet waters, face powders and creams, and rouge. L. Philippe. 184,095; Dec. 18.
Perfumes, toilet waters, face powders, etc. Societe Anonyme Parfumerie Violet. 178,145; Dec. 18.
Pharmaceutical preparation. Hicks & Johnson. 186,057; Dec. 18.
Pipe cleaner, Paste. J. A. Sexauer Mfg. Co. 184,872; Dec. 18.
Plasters. Deane Plaster Co. 170,970; Dec. 18.
Powder and cream, Face. Pompeian Mfg. Company. 186,026; Dec. 18.
Powder for cleansing and softening the skin. W. S. Stoner. 184,693; Dec. 18.
Powders, Talcum. C. Tetlow. 183,422; Dec. 18.
Preparation for coughs and colds. Pete Smith & Son. 184,991; Dec. 18.
Preparation for gastro-intestinal diseases. Societe Francaise de Recherches et Applications Scientifiques. 184,189; Dec. 18.
Preparation for hair restoring and growing. J. A. Rogers. 183,891; Dec. 18.
Preparation for the treatment of cholera, coughs, colds, etc., of hogs and pigs. C. H. Ford. 184,128; Dec. 18.
Preparation for the treatment of piles. J. Sheehan. 186,028; Dec. 18.
Preparation for use in effecting a permanent wave in the hair. Alexandre & Emile. 182,695; Dec. 18.
Preparations used for the prevention and treatment of germ diseases. General Laboratories. 181,885; Dec. 18.
Rat and mice poison and insecticide. A. L. Milligan. 153,764; Dec. 18.
Remedies for indigestion and dyspepsia. Cofield Laboratories, Inc. 184,324; Dec. 18.
Remedy for dyspepsia and indigestion. Stothart's Drug Store. 183,542; Dec. 18.
Remedy for piles. H. O. Brown. 182,397; Dec. 18.
Remedy for treating skin diseases and skin infections. Johnson & McGrath Laboratory. 180,010; Dec. 18.
Remedy for treatment of fainting fits, etc. Societe Francaise de Recherches et Applications Scientifiques. 184,188; Dec. 18.
Salt. Bernard & Blanchard. 183,902; Dec. 18.
Salt compound, Granular effervescing. Physio-Chemical Laboratories, Inc. 173,672; Dec. 18.
Salt, Dry chemical mixture of health. Abbey Effervescent Salt Company. 180,644–5; Dec. 18.
Salve. M. E. Bidelman. 182,464; Dec. 18.
Salve for itch, sores, etc. F. A. Harness. 186,128; Dec. 18.
Salve, Healing. C. F. Ross. 183,454; Dec. 18.
Salve, Healing. Wicks Pharmacal Co. 175,418; Dec. 18.
Soda, Caustic. United States Alkali Export Association Inc. 184,009; Dec. 18.
Sulphur. San Francisco Sulphur Co. 177,869–70; Dec. 18.
Sulphur. San Francisco Sulphur Co. 177,873; Dec. 18.
Talcum, face powder, bath salts, etc. Richard Hudnut. 185,969; Dec. 18.
Tea for the treatment of obesity. W. C. Boethling. 183,247; Dec. 18.
Toilet lotion for chapped hands and face. M. S. Hoechstetter. 181,599; Dec. 18.
Toilet preparations. George Borgfeldt & Co. 185,104; Dec. 18.
Tonic. Thacher Medicine Company. 186,398; Dec. 18.
Tonic for treating anæmia, low vitality, etc. Fontola Medicine Co. 183,912; Dec. 18.
Tonic, General medicinal. Pabst Corporation. 182,111–12; Dec. 18.
Tonic medicine. Apollo Drug Company. 185,240; Dec. 18.
Tonic used in the treatment of kidney diseases, etc., Medicated health. M. A. Kimble. 176,481; Dec. 18.
Tooth paste. Goughnour & Shields. 184,909; Dec. 18.
Tooth paste. Mar-Son Medicine Co. 183,844; Dec. 18.
Tooth-stain remover. Medico-Dental Specialty Co. 185,344; Dec. 18.
Treatment for coughs, sore throat, etc. Mastin & Company. 184,173; Dec. 18.
Treatment for rheumatism, kidney, liver, and bladder complaints. Mastin & Company. 184,174; Dec. 18.

CLASS 12.

Concrete tiles and molds. A. J. Rowley. 167,925; Dec. 18.
Plaster. Universal Gypsum Company. 184,572; Dec. 18.

CLASS 13.

Bedsteads, cots, etc., Corner fittings for. Atlas Bedstead Company (Stephen Wilkes & Sons) Limited. 172,026; Dec. 18.
Cookers, Steam-pressure. Economy Cooker Company. 183,562; Dec. 18.
Valves and pump governors, Pressure-reducing. Locke Regulator Co. 177,789; Dec. 18.

CLASS 14.

Bearing metals. A. W. Cadman Manufacturing Co. 183,360; Dec. 18.
Rails, Steel. Société Anonyme d'Ougrée Marihaye. 167,502; Dec. 18.
Railway equipment. Q & C Company. 151,996; Dec. 18.
Steel, Hammered and rolled. Société Anonyme d'Ougrée Marihaye. 167,501; Dec. 18.

CLASS 19.

Vehicle visors. Telulah Petralyke Company. 181,358; Dec. 18.

CLASS 21.

Batteries, Dry. National Carbon Company. 183,040; Dec. 18.
Batteries, Dry. National Carbon Company. 186,024; Dec. 18.
Cables, Rubber-covered electric wire. Seward Wire Company. 181,317; Dec. 18.
Electrical instruments. Simplex Electrical Laboratories, Inc. 184,107; Dec. 18.
Lamps, Automobile or vehicle electric. Doering Manufacturing Company. 183,202; Dec. 18.
Radiodetectors. A. M. Barron. 185,358; Dec. 18.
Radio phonograph adapters. Ekko Company. 181,519; Dec. 18.
Radio receiving and transmitting instruments and parts thereof. North American Radio & Supply Corporation. 168,936; Dec. 18.
Telephone silencers. S. T. Cohane. 184,122; Dec. 18.

CLASS 22.

Game, Portable ninepin. B. H. Dyas. 187,376; Dec. 18.
Swimming apparatus. G. G. B. Kjelgaard. 187,822; Dec. 18.

CLASS 23.

Chisels, pipe wrenches, and screw drivers, Cold. Tobrin Tool Company. 187,885; Dec. 18.
Corn-popping machines. C. V. Champion. 185,858; Dec. 18.
Insect exterminators, Mechanical. John G. Cousar and John G. Barron. 167,672; Dec. 18.
Motors and parts thereof, Internal-combustion. Disappearing Propeller Boat Co. 184,815; Dec. 18.

CLASS 26.

Camera and projector, Motion-picture. Campro Corporation. 186,584; Dec. 18.
Taximeters. J. A. F. Brun. 186,176; Dec. 18.

CLASS 27.

Watches, clocks, and parts thereof. Fabrique d'Horlogerie La Glycine. 181,740; Dec. 18.

CLASS 30.

China. Rosenthal-Porzellanfabrik, vorm. Jac. Zeidler & Co. 170,547; Dec. 18.
China and earthenware. George Jones & Sons, Limited. 149,139; Dec. 18.

CLASS 31.

Refrigerating units, refrigerators, etc. Nitzer Corporation. 187,438; Dec. 18.

CLASS 32.

Box springs and mattresses. A. Wuest. 187,598; Dec. 18.
Couches or davenports, Swinging. Enterprise Bed Company. 167,770; Dec. 18.
Mattresses. Stearns & Foster Company. 186,254; Dec. 18.
Tables, Folding. Parker-Young Company. 185,983; Dec. 18.

CLASS 34.

Asphalt melter. O. Enlkenwalde. 186,180; Dec. 18.
Gas for heating, etc., Self-contained units for storing and supplying. Carbide & Carbon Chemicals Corporation. 185,651; Dec. 18.
Heaters, Gas. Trolley Supply Co. 186,532; Dec. 18.

CLASS 35.

Tires and inner tubes, Pneumatic. O. Krichbaum. 182,831; Dec. 18.
Tires and rubber tubes therefor, Vehicle. Fisk Rubber Company. 183,794; Dec. 18.

CLASS 37.

Paper, Ledger. Chemical Paper Manufacturing Company. 187,712; Dec. 18.
Paper, Wrapping. Diem & Wing Paper Co. 187,565; Dec. 18.
Paper, Writing. Fox River Paper Company. 187,617; Dec. 18.
Paper, Writing and printing. Chemical Paper Manufacturing Company. 187,713; Dec. 18.
Papers, Printing and writing. Dill & Collins Co. 187,608; Dec. 18.
Pencils, Lead. Blaisdell Pencil Company. 188,178; Dec. 18.
Tablets, composition books, etc., Writing and school. Osborne Paper Company. 187,764; Dec. 18.
Wedges. E. E. Dornaus. 178,235; Dec. 18.

CLASS 38.

Book, Hand and manual. C. A. Mann. 183,339; Dec. 18.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Designs, Novelty. C. H. Baum. 183,728; Dec. 18.
Organ, House. Compo Bond Corporation. 177,166; Dec. 18.
Publications, Sunday-school. W. B. Rose. 186,722; Dec. 18.

CLASS 39.

Apparel, Ready-made women's. Ferguson, Weinberg & Rose. 177,662; Dec. 18.
Aprons, Dress. M. E. Smith & Co. 186,968; Dec. 18.
Aprons, dresses, and frocks. J. Zukin. 177,888; Dec. 18.
Boots, shoes, and slippers and their components. D. B. Macdonald. 184,087; Dec. 18.
Coats and vests, Leather. Fried, Ostermann Company. 187,104; Dec. 18.
Coats, capes, suits, and dresses, Ladies'. A. Beller & Company. 185,339; Dec. 18.
Coats, suits, dresses, etc., Women's. Avedon & Co. 187,032; Dec. 18.
Coats, vests, trousers, and overcoats, Men's and youths'. Moses-Rothchild Co. 187,228; Dec. 18.
Dresses, coats, suits, waists, sweaters, hosiery, etc. M. Gerin & Son. 186,118; Dec. 18.
Garments or clothing, Men's outer. Diehl, Kane & Diehl Tailoring Co. 179,784; Dec. 18.
Gloves, underwear, and hosiery. P. Centemeri & Co. 185,414; Dec. 18.
Hats, dresses, wraps, etc. Maison Maurice, Inc. 186,481; Dec. 18.
Hosiery. Bethlehem Narrow Textiles Co. 187,194; Dec. 18.
Knitted garments. Cloverleaf Knitting Mills Inc. 184,067; Dec. 18.
Shirts. Tutelman & Kohn. 186,258; Dec. 18.
Shirts, collars, pyjamas, etc., Men's and boys'. H. Berger. 180,205; Dec. 18.
Shirts, Workingmen's. M. H. Cowen Manufacturing Company. 168,452; Dec. 18.
Sleeve protectors. Baker-Lockwood Mfg. Co. 186,871; Dec. 18.
Sweater coats, jerseys, bathing suits, and scarfs. Los Angeles Knitting Company. 174,967–8; Dec. 18.
Sweaters and vests, Knitted. B. R. Baker Co. 175,376; Dec. 18.
Underwear and hosiery. P. Centemeri & Co. 185,416; Dec. 18.
Underwear for women and children. H. K. Grout. 184,725; Dec. 18.
Underwear, Men's and boys'. Hodes Mills Inc. 184,451–2; Dec. 18.
Union suits and vests and bathing suits, Ladies'. Augusta Knitting Corporation. 174,284; Dec. 18.

CLASS 40.

Hair dressing. Padding for. E. Mittelstaedt, Inc. 187,833; Dec. 18.
Tapes, Covered hook and eye. R. K. M. Manufacturing Co. 181,411; Dec. 18.
Tassels and fringes, elastic belting and cord, etc. Calhoun, Robbins & Co. 172,209; Dec. 18.

CLASS 42.

Cheesecloth. Lewis Manufacturing Company. 186,240; Dec. 18.
Cloth, Printed cotton. J. L. Stifel & Sons. 186,487; Dec. 18.
Cloths and piece goods of woolen, Worsted, etc. B. Priestley & Co. 186,853–4; Dec. 18.
Cotton cloth in the piece. L. J. Marshuetz. 171,133; Dec. 18.
Cotton, etc., piece goods. Turner & Walls. 186,257; Dec. 18.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. 186,771; Dec. 18.
Hair nets. Abraham & Strauss, Inc. 186,404; Dec. 18.
Muslins, sheeting, pillowcases, etc. John H. Hibben Dry Goods Co. 186,505; Dec. 18.
Silk and cotton mixture goods and cotton piece goods. Voss & Stern. 177,938; Dec. 18.
Silk, cotton, silk and cotton, etc., piece goods. Voss & Stern. 184,045; Dec. 18.
Silk piece goods. Chopak Textile Co. 185,176; Dec. 18.
Silk piece goods. H. R. Mallinson & Co. 186,559; Dec. 18.
Silk piece goods. Voss & Sterns. 177,933; Dec. 18.
Velour coating piece goods, Wool. C. Bahnsen & Co. 186,541; Dec. 18.
Worsted and woolen textile fabrics. Holden-Leonard Company. 186,367; Dec. 18.
Worsted and woolen textile fabrics. Holden-Leonard Company. 186,369; Dec. 18.
Worsted and woolen textile fabrics. Holden-Leonard Company. 186,372; Dec. 18.
Worsted and woolen textile fabrics. Holden-Leonard Company. 186,374; Dec. 18.

CLASS 45.

Beverages and simps, extracts, emulsions, and pastes for making the same. American Syrup Company. 168,191; Dec. 18.
Beverages sold as soft drinks. S. Seltzer. 176,101; Dec. 18.
Beverages sold as soft drinks and sirups for making same. V. Jones. 186,380; Dec. 18.
Ginger ale. Delatour Beverage Corporation. 186,830; Dec. 18.
Sirup for carbonated beverages, Maltless. R. H. Smith. 184,427; Dec. 18.

CLASS 46.

Apples, Fresh. National Fruit Product Company. 186,388; Dec. 18.
Bread. C. Garlek. 178,605; Dec. 18.
Bread. Heinbach Baking Company. 179,270; Dec. 18.
Candy. Bonita Co. 184,637; Dec. 18.
Candy, Stick. Davis-Reese Co. 183,959; Dec. 18.
Canned beans and pork, vegetables, and clams. Burnham & Morrill Company. 185,557; Dec. 18.
Canned crab meat. Taiyo Trading Company. 182,274; Dec. 18.
Canned fruits. Hunt Brothers Packing Company. 187,463; Dec. 18.
Canned fruits and berries. Springbrook Canning Company. 185,055; Dec. 18.
Canned fruits and berries. Starr Fruit Products Co. 187,356; Dec. 18.
Canned goods, stuffed olives, asparagus, etc. H. T. Quinlan & Company. 116,694; Dec. 18.
Canned pineapple. Henry P. Baldwin, Ltd. 187,283; Dec. 18.
Canned salmon. Alaska Pacific Fisheries. 187,277; Dec. 18.
Canned salmon. W. D. Frith. 185,516; Dec. 18.
Canned salmon. Klamath River Packers Assn. 184,864; Dec. 18.
Canned salmon. New England Fish Company. 183,531; Dec. 18.
Canned salmon. Sea Coast Packing Co. 168,648; Dec. 18.
Canned salmon. Stuart Packing Corporation. 182,621; Dec. 18.
Canned tomatoes. H. Traub's Sons. 174,710; Dec. 18.
Canned vegetables and fruits, flavoring extracts, etc. Keystone Company of San Jose. 184,078; Dec. 18.
Cereal, Breakfast. Ward Baking Company. 183,509; Dec. 18.
Chocolate. Eline's Incorporated. 186,319; Dec. 18.
Coffee. American Tea & Coffee Co. 185,170; Dec. 18.
Coffee. Coffee Products Corporation. 187,453; Dec. 18.
Coffee, tea, chocolate, molasses, etc. Milliken, Tomlinson Co. 169,314; Dec. 18.
Confectionery. Spongette Pure Food Company. 178,478; Dec. 18.
Feed, Stock. Arkadelphia Milling Company. 183,641; Dec. 18.
Flour, Hard-wheat. Kell Milling Company. 177,385; Dec. 18.
Flour, Hard-wheat. Kell Milling Company. 181,127; Dec. 18.
Flour, Patent winter-wheat. Hurst-Boillin Co. 174,395; Dec. 18.
Flour, Wheat. Hecker-Jones-Jewell Milling Company. 182,802; Dec. 18.
Flour, Wheat. Hecker-Jones-Jewell Milling Company. 183,028; Dec. 18.
Flour, Wheat. Hecker-Jones-Jewell Milling Company. 183,031–2; Dec. 18.
Flour, Wheat. Hecker-Jones-Jewell Milling Company. 183,287; Dec. 18.
Flour, Wheat. Hecker-Jones-Jewell Milling Company. 183,478; Dec. 18.
Foods. C. W. McClure. 182,165; Dec. 18.
Fruits, Citrous. C. C. Chapman. 181,377; Dec. 18.
Grapefruit, oranges, etc., Fresh. Indian River Products Company. 149,508; Dec. 18.
Grapes, Fresh. Navelencia Fruit Growers. 184,618; Dec. 18.
Macaroni. Wisconsin Macaroni Company. 158,205; Dec. 18.
Mash, scratch and poultry feed, etc., Laying. Arkadelphia Milling Co., 184,228; Dec. 18.
Milk, cream, buttermilk, butter, and cheese. Holstein-Friesian Association of America. 183,973; Dec. 18.
Milk, cream, ice cream, etc. Supplee-Wills-Jones Milk Company. 163,473; Dec. 18.
Pretzels. Moyer Bros. 183,311; Dec. 18.
Sirup. Sethness Company. 174,264; Dec. 18.
Sweets and relishes. E. V. Minetti. 182,217; Dec. 18.
Tablets for food purposes only. J. G. Munsell. 181,765; Dec. 18.
Yeast. Fleischmann Company. 147,020; Dec. 18.

CLASS 50.

Designs and photographs on glass and metal. Photoplating Company. 166,536; Dec. 18.
Incubators, brooders, trap nests, etc. Newtown Giant Incubator Corporation. 184,254; Dec. 18.
Packages or outfits containing materials for making lamp shades, night lights, etc. Bernard W. Cowen Corp. 166,285–6; Dec. 18.
Traps, Game. Norwich Wire Works, Inc. 183,848; Dec. 18.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 18TH DAY OF DECEMBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A/S De Norske Saltverker. (See Isaachsen, Isak, assignor.)
A & Z Chain Company. (See Zetlin, Benjamin, assignor.)
Aab, William, New Ulm, Minn. Wrist pin. 1,477,622; Dec. 18.
Adams, Joseph H., Flatbush, N. Y., assignor to The Texas Company, Houston, Tex. Oil-converting apparatus for the conversion and transformation of oils. 1,477,860; Dec. 18.
Adams, Nathan H., Schenectady, N. Y., assignor to General Electric Company. Wear-resisting body. 1,477,797; Dec. 18.
Adams, Ralph R., Yonkers, N. Y. Razor. 1,478,160; Dec. 18.
Affel, Herman A., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Signaling. 1,477,528. Dec. 18.
Aktiebolaget Ljungströms Angturbin. (See Ljungström, Fredrik, assignor.)
Aktiebolaget Optimus. (See Nyström, Knut E. R., assignor.)
Allbin, Sim E., assignor to Mayer Life Boat Co. Inc., Seattle, Wash. Lowering and raising drum for lifeboats. 1,477,529; Dec. 18.
Allen, Charles L., Claremont, Va. Poultry nest. 1,477,861; Dec. 18.
Allis, Louis, Company, The. (See Barr, John M., assignor.)
Allison, Campbell, St. Louis, Mo. Railway rail. 1,478,161; Dec. 18.
Allison, Fred, assignor to Ford Motor Company of Delaware, Detroit, Mich. Starting and lighting system. 1,478,196; Dec. 18.
Altamura, Pasquale, assignor to Simplex Metal Spinning & Stamping Co Inc., New York, N. Y. Holder for electric-light fixtures. 1,477,798; Dec. 18.
American Dressler Tunnel Kilns, Inc. (See Vincent, Laurence A., assignor.)
American Lithographic Company. (See Hopkins, William L., assignor.)
American Manganese Steel Company. (See Clark, John O., assignor.)
American Seeding Machine Company, The. (See Rodgers, Robert S., assignor.)
American Steel and Wire Company of New Jersey, The. (See Brown, Edwin F., assignor.)
American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)
American Telephone and Telegraph Company. (See Rhodes, Frederick L., assignor.)
American Telephone and Telegraph Company. (See Thompson, George K., assignor.)
American Thread Company, The. (See Clark, R. K. and Kroepel, assignors.)
Amert, Joseph A., San Jose, Calif. Auxiliary air supply for fuel vaporizers. 1,477,989; Dec. 18.
Anderson, August P., assignor to Anderson-Rees Refrigerating Machine Co., Chicago, Ill. Refrigerating apparatus. 1,478,162; Dec. 18.
Anderson, Dennis M., Columbus, Ohio. Drain shelf. 1,477,799; Dec. 18.
Anderson, Fred E., Osage City, Kans. Motor control. 1,477,926; Dec. 18.
Anderson, Louis W., Grand Rapids, Mich., assignor to The Tunnel & Sewer Machine Engineering Company, Buffalo, N. Y. Erector for tunnel structures. 1,478,163; Dec. 18.
Anderson-Rees Refrigerating Machine Co. (See Anderson, August P., assignor.)
Anshen, Zatkind, Boston, Mass., assignor to Boston Jewelry Manufacturing Company. Crown seting for articles of jewelry. Des. 63,548; Dec. 18.
Anthony, Joseph W., Lynn, Mass. Leather-folding machine. 1,477,745; Dec. 18.
Anthracite Separator Company. (See Pardee, Frank, assignor.)
Arrenbrecht, John, Salem, Ohio. Demountable spring rim for vehicle wheels. 1,478,197; Dec. 18.
Astoroid Manufacturing Co. (See Greenwald, Isidor, assignor.)
Atherton, George W., Livermore, Ky. Convertible drying kiln and crib. 1,477,682; Dec. 18.
Atlantic Refining Company, The. (See Johansen, Ernest M., assignor.)
Atlas Machine Works, Inc. (See Metzger, Harry C., assignor.)
Attaberry, Alvin R., Springfield, Ill. Downdraft furnace. 1,477,927; Dec. 18.
August, Edward E., Chicago, Ill. Rail joint. 1,477,990; Dec. 18.
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Connecting joint. 1,477,800; Dec. 18.
Austin Machinery Company. (See Seidler, Alexander, assignor.)
Bacon, Frank W., Los Angeles, Calif. Mileage chart. 1,477,801; Dec. 18.
Bailey, Laurel L., assignor of one-half to R. G. Hall, Terre Haute, Ind. Wrench. 1,477,928; Dec. 18.
Baisden, Charles H., Logan, W. Va. Grab pick. 1,478,198; Dec. 18.
Baker, Stanley H., Manchester, England. Lamp shade. 1,477,991; Dec. 18.
Baker, Stephen D., New York, N. Y. Combination soap and toothbrush holder. Des. 63,549; Dec. 18.
Baldwin Locomotive Works, The. (See Sykes, J. P., and Stover, assignors.)
Ballaž, Peter, West New York, N. J. Threadless bolt. 1,478,093; Dec. 18.
Ballman, Edwin C., St. Louis, Mo., assignor to Valley Electric Company, Wilmington, Del. Rotor for induction motors. 1,478,164; Dec. 18.
Balzano, Saverio, et al. (See Marrazzo, Domenico, assignor.)
Bannister, Bryant. (See Hopwood, J. M., and Bannister.)
Barnard, Dudley J., Barking, England. Grab. 1,477,530; Dec. 18.
Barnett, Harry, Helena, Mont. Automobile wheel lock. 1,477,929; Dec. 18.
Baron, Bernhard, London, and G. F. Bull, Birmingham, England. Box or container for tobacco cartridges. 1,478,165; Dec. 18.
Barr, John M., assignor to The Louis Allis Company, Milwaukee, Wis. Speed controller. 1,477,862; Dec. 18.
Barrett, Harry D., Niles, Mich. Oiling system. 1,478,094; Dec. 18.
Bartholomew, Frank K., and J. A. Ramage, McGregor, Iowa. Dustless carrier. 1,477,930; Dec. 18.
Bashara, Joseph F. (See Bashara, Samuel F. and J. F.)
Bashara, Samuel F., Houston, Tex. Combination drill bit and core-taking device. 1,477,933; Dec. 18.
Bashara, Samuel F., and C. Paggi, assignors to Texas Reclaim Oil Association, Houston, Tex. Drill bit. 1,477,931; Dec. 18.
Bashara, Samuel F. and J. F., Houston, Tex. Drill bit. 1,477,932; Dec. 18.
Bateman, Ennis F., Dallas, Tex. Accelerator for internal-combustion engines. 1,477,683; Dec. 18.
Bates, Otis M., Friendship, Tenn. Foldable chicken crate or coop. 1,477,624; Dec. 18.
Bath, John, & Co. (See Bath, John, assignor.)
Bath, John, assignor to John Bath & Co. Inc., Worcester, Mass. Adjustable gauge. 1,477,531; Dec. 18.
Batson, John, Murphysboro, Ill. Combined light support, garment and hat rack. Des. 63,550; Dec. 18.
Bandino, John, Herrin, Ill. Antisplash device for tanks. 1,477,746; Dec. 18.
Baner & Black. (See Jenkins, William F., assignor.)
Baner, Perry S., Chicago, Ill. Steering gear. 1,478,013; Dec. 18.
Baur, Philip J., Philadelphia, Pa. Batter-weighing machine. 1,478,199; Dec. 18.
Baush Machine Tool Company. (See Moore, Francis A., assignor.)
Baush Machine Tool Company. (See Root, Virgil A., assignor.)
Baxter, Allan, Motherwell, Scotland. Valve for feed-water supply to steam generators and the like. 1,478,320; Dec. 18.
Beach, Mally P., Ridgefield, Conn. Headgear. 1,477,934; Dec. 18.
Beardslee Chandelier Manufacturing Company. (See Mettler, John C., assignor.)
Bearings Company of America, The. (See Lehmann, Otto H., assignor.)
Beaver Machine & Tool Company. (See Downing, John B., assignor.)
Beaver Seal Jar Cap Company. (See Beavers, Elmer, assignor.)

Beavers, Elmer, Los Angeles, Calif., assignor to Beaver Seal Jar Cap Company, Norristown, Pa. Fruit-jar cap. Des. 63,551; Dec. 18.
Beck, Robert C., Brooklyn, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Oil-well heater. 1,477,802; Dec. 18.
Beckwith Company. (See Howes, George W., assignor.)
Bedford, Clayton W., and R. L. Sibley, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Thiocarbanilide derivative. 1,477,803; Dec. 18.
Bedford, Clayton W., and R. L. Sibley, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Production of thiocarbanilide. 1,477,804; Dec. 18.
Bedford, Clayton W., assignor to Goodyear Tire & Rubber Company, Akron, Ohio. Accelerator for the vulcanization of caoutchouc substances. 1,477,805; Dec. 18.
Behrens, Richard L. (See Schou, T., and Behrens.)
Behrman, Abraham S. (See Hughes, W. J., and Behrman.)
Bellamy, Harry T., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Switchboard incandescent lamp. 1,478,014; Dec. 18.
Benbow, James D., assignor to Western Wheeled Scraper Company, Aurora, Ill. Controlling mechanism for dump cars. 1,477,747; Dec. 18.
Bench, Thomas C. (See Mitchell, Charles H., assignor.)
Bender, Lillian M., San Francisco, Calif. Flesh-reducing garment. 1,478,005; Dec. 18.
Bendix, Vincent, Chicago, Ill. Engine starter. 1,477,863; Dec. 18.
Benedict, Hershel A., East Orange, and E. M. Moller, Jersey City, N. J. Door-closing device and lock. 1,477,992; Dec. 18.
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical connecter device. 1,478,166; Dec. 18.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Waterproof electric fitting. 1,478,167; Dec. 18.
Berg, Emil G., Ashburnham, assignor of one-half to C. Hedstrom, Gardner, Mass. Adjustable nut for micrometers. 1,477,935; Dec. 18.
Bergen, Harry S., Toledo, Ohio. Workholding device. 1,478,096; Dec. 18.
Berglund, Gust A., Joliet, Ill. Food-slicing machine. 1,478,200; Dec. 18.
Berkel, Joseph, New York, N. Y. Wheel rim and tire. 1,478,321; Dec. 18.
Berner, August, Nuremberg, Germany. Picking and rock-drilling machine. 1,477,684; Dec. 18.
Bethlehem Steel Company. (See Lachman, Maurice, assignor.)
Billings, Frank. (See Greenleaf, Robert P., assignor.)
Binney & Smith Co. (See Milliken, William H., jr., assignor.)
Bird & Son, Incorporated. (See Bird, Charles S., assignor.)
Bird, Charles S., assignor to Bird & Son, Incorporated, East Walpole, Mass. Wall board. 1,477,532; Dec. 18.
Bishop, Columbus H., El Reno, Okla. Egg turner. 1,478,201; Dec. 18.
Bissell, Don W., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Production of triphenylmethane dye. 1,478,015; Dec. 18.
Bissell, George A., Minot, N. Dak. Water meter. 1,477,748; Dec. 18.
Black, Eric A., Orange, N. J. Warp and jack thread-break-stopping device. 1,478,016; Dec. 18.
Black, Lee J., Beaumont, Tex. Hydraulic swivel. 1,478,097; Dec. 18.
Black, V. E., Company. (See Kollstede, George, assignor.)
Baldwin, Morton S., assignor to Detroit Forging Company, Detroit, Mich. Vehicle top. 1,477,623; Dec. 18.
Blaskie, Bernard J., and H. E. Bleier, Mishawaka, Ind. Pencil holder. 1,478,170; Dec. 18.
Blattner, Carl F. (See Hennessy, J. E., and Blattner.)
Bleier, Herman E. (See Blaskie, B. J., and Bleier.)
Blood, Bryant H., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Gauge. 1,477,533; Dec. 18.
Blood, Bryant H., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Adjustable ring gauge. 1,477,534; Dec. 18.
Boehncke, Frank E., Woodhaven, N. Y. Window screen. 1,478,168; Dec. 18.
Bolton, George W., Detroit, Mich. Artificial bait. 1,477,864; Dec. 18.
Bond, Joseph T., Phoenix, assignor, by mesne assignments, to Oswego Falls Corporation, Fulton, N. Y. Machine for making paper container bodies and the like. 1,478,098; Dec. 18.
Bonnell, William A., Brooklyn, N. Y. Junction box and knock-out therefor. 1,477,806; Dec. 18.
Boott Mills. (See Flather, Frederick A., assignor.)
Bors-Koefoed, Axel. (See Clement, Clement A., assignor.)
Boston Jewelry Manufacturing Company. (See Anshen, Zalkind, assignor.)
Bostwick, Edward C., Laurium, Mich. Brush clamp. 1,477,685; Dec. 18.
Bott, Edward C., Bienville, La. Lid for cans. 1,477,936; Dec. 18.
Boulanger, Aimé, Normandin, Quebec, Canada. Hoisting device. 1,478,272; Dec. 18.
Bounds, Benjamin F., Pondcreek, Okla. Terrestrial planetarium. 1,478,099; Dec. 18.
Bower, George W., Schenectady, N. Y., assignor to General Electric Company. Trolley switch. 1,477,807; Dec. 18.
Bradley, Theodore F., Cranford, N. J. Delivering paints, varnishes, and the like. 1,478,017; Dec. 18.
Brady, Archie E., Houston, assignor of one-half to J. P. Rogers, Harris County, Tex. Automatic fishing tool. 1,477,535; Dec. 18.
Braender, Walter P., Passaic, N. J. Container. 1,477,686; Dec. 18.
Breitling, Ernst, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Zeroizing device for cash registers or calculating machines. 1,477,536; Dec. 18.
Bremer, Christian F., Tampa, Fla. Smoker. 1,477,993; Dec. 18.
Bricken, John, Chicago, Ill. Pencil. 1,478,018; Dec. 18.
Britton, Reginald P. L., assignor to Griffiths Bros. & Company London Limited, London, England. Fluid composition for compounding, impregnating, and coating. 1,477,938; Dec. 18.
Brockmeier, William A., Yuma, Colo. Telephone-circuit breaker. 1,477,939; Dec. 18.
Brogn, Wilson C. (See Hudson, C. J., and Brogn.)
Brogan, Byard F., Philadelphia, Pa. Finger ring. Des. 63,552; Dec. 18.
Brown Company. (See Ek, Arvid, assignor.)
Brown, Edwin F., Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey. Wire-block stripper. 1,477,687; Dec. 18.
Brown, Isaac, New York, N. Y. Dental impression guide. 1,478,019; Dec. 18.
Brown, Robert, assignor to The Parsons Company, Newton, Iowa. Side cutter for trenching machines. 1,477,940; Dec. 18.
Brunswick-Balke-Collender Company, The. (See Hine, Cicero, assignor.)
Brunswick-Balke-Collender Company, The. (See Matteson, Jesse O., assignor.)
Brunswick-Balke-Collender Company, The. (See Miller, Charles P., assignor.)
Büchi, Alfred. Winterthur, Switzerland. Two-stroke-cycle internal-combustion engine and scavenging and charging process thereof. 1,477,994; Dec. 18.
Buckwalter, John S., Lancaster, Pa. Connecting-rod straightening and testing device. 1,477,688; Dec. 18.
Buell, Joseph W., deceased, Falls Church, Va.; W. A. Buell, executrix, assignor to Buell Signal and Train Control Company, Incorporated. Cab signal and automatic train-control system. 1,478,100; Dec. 18.
Buell, Joseph W., deceased, Washington, D. C.; W. A. Buell, executrix, assignor to Buell Signal and Train Control Company, Incorporated. Dualistic cab signal and automatic train-control system. 1,478,101; Dec. 18.
Buell Signal and Train Control Company. See Buell, Joseph W., assignor.)
Buell, Wanda A., executrix. (See Buell, Joseph W.)
Bull, George F. (See Baron, B., and Bull.)
Bunker, Darius W., Quincy, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Safety device. 1,477,537; Dec. 18.
Burke, James M. (See Duke, Augustus C., assignor.)
Burns, William H., Chicago, Ill. Combination hair trimmer and safety razor. 1,477,689; Dec. 18.
Butcher, James M., Chicago, Ill. Alarm mechanism. 1,478,169; Dec. 18.
Butler, Charles A., Okmulgee, Okla. Wrench for oil-well casings. 1,478,020; Dec. 18.
Byrne, George M., et al. (See Byrne, John F., assignor.)
Byrne, John F., assignor of one-third to G. M. Byrne and one-third to R. L. Smith, Lincoln, Nebr. Driving-wheel box for locomotives and the like. 1,477,625; Dec. 18.
Cadwell, Carl C., Rochester, Minn. Combination hand bag and camera-carrying case. 1,478,202; Dec. 18.
Cahusac, Clarence N., Jersey City, N. J. Phonograph-record-filing cabinet. 1,477,626; Dec. 18.
Call, Ira A. and J. C., New York, N. Y., assignors, by mesne assignments, to The Ideal Automatic Train Control Company, Dover, N. J. Train-control system. 1,478,273; Dec. 18.
Call, Joseph C. (See Call, Ira A. and J. C.)
Callaway, James F., Salt Lake City, Utah. Fan for clear vision. 1,477,690; Dec. 18.
Callsen, Jurgen, Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Pharmaceutical product. 1,477,691; Dec. 18.
Calvert, Charles C., Lodi, Calif. Automatic-feed nail stripper. 1,478,021; Dec. 18.
Campbell, Julian A. (See Russell, V. W., Kyle, and Campbell.)
Campbell, Omer F., Fresno, Calif. Life-saving and sporting device. 1,477,627; Dec. 18.
Candevilla, Antonio S., Barcelona, Spain. Safety lock. 1,478,274; Dec. 18.
Carbon Monoxide Burner Company. (See Craig, James W., assignor.)
Carothers, Charles O., Kenton, Ohio. Clay-pigeon trap. 1,477,942; Dec. 18.

Carpenter, Warren W., Brooklyn, N. Y., and H. Hovland, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,478,022; Dec. 18.
Carringer, James R. (See Clark, E. M., Loomis, and Carringer.)
Carter, Glenn O., New Rochelle, and R. C. Pierce, New York, N. Y., assignors to The Linde Air Products Company. Method of and apparatus for welding metals. 1,477,538; Dec. 18.
Carter, Van Roy, Los Angeles, Calif. Transmission. 1,477,628; Dec. 18.
Cast Steel Pilot Company. (See Pflager, Harry M., assignor.)
Celona, Ignatius J., Brooklyn, N. Y. Receptacle closure and making the same. 1,478,171; Dec. 18.
Century Rubber Works. (See Venn, Charles J., assignor.)
Černý, Josef, Leominster, Mass. Combination penholder and safety collar. Des. 63,553; Dec. 18.
Chadwick, Alfred, assignor to The Andrew B. Hendryx Co., New Haven, Conn. Bird cage. 1,477,941; Dec. 18.
Chalman, John E., assignor to Union Special Machine Company, Chicago, Ill. Adjustable center-plait holder. 1,478,023; Dec. 18.
Chambers, Peter. (See Fisher, W. H., and Chambers.)
Chemische Fabrik Griesheim-Elektron. (See Wollner, E., and Thomas, assignors.)
Chernock, Isidore. (See Prebluda, Barney, assignor.)
Cherry, J. G., Company. (See Van Kuren, Stephen J., assignor.)
Chevrette, Augustin J., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Shuttle-changing loom. 1,477,995; Dec. 18.
Chrisman, Russell K., Syracuse, assignor to Semet-Solvay Company, Solvay, N. Y. Electrolytic apparatus. 1,477,629; Dec. 18.
Christophel, Lewis W., St. Louis, Mo. Trunk bolt. 1,477,692; Dec. 18.
Church, Frank B., San Jose, Calif. Steam deflector. 1,477,996; Dec. 18.
Circle, William J., Seattle, Wash. Combination cuff and collar button. 1,477,997; Dec. 18.
Clancy, John F., assignor to Kaestner & Hecht Company, Chicago, Ill. Elevator-door lock. 1,477,630; Dec. 18.
Clark, Edgar M., Westfield, N. E. Loomis, Elizabeth, and J. R. Carringer, Hillside, N. J., assignors to Standard Development Company. Treating oils. 1,478,102; Dec. 18.
Clark, James, assignor to S. R. Dresser Manufacturing Company, Bradford, Pa. Wrought-metal repair device for pipe lines. 1,478,172; Dec. 18.
Clark, John O., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Dipper. 1,477,539; Dec. 18.
Clark, John T., Provo, Utah. Railway tie. 1,477,540; Dec. 18.
Clark, Joseph C., San Angelo, Tex. Motor-spring-securing means. 1,478,173; Dec. 18.
Clark, Mary, Garden City, Kans. Roll cutter. 1,477,693; Dec. 18.
Clark, Robert K., Springfield, and E. W. Kroepel, Holyoke, Mass., assignors to The American Thread Company, Jersey City, N. J. Unwinder for spools. 1,478,364; Dec. 18.
Clark, Thomas E., Grand Rapids, Mich. Direction signal for motor vehicles. 1,478,174; Dec. 18.
Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Combined telephone and telegraph system. 1,478,024; Dec. 18.
Clement, Clement A., and Axel Bors-Koefoed, Houston, Tex.; said Bors-Koefoed assignor to said Clement, trustee. Motion-picture machine. 1,477,541; Dec. 18.
Cleveland Brass Manufacturing Company, The. (See Costello, Joseph A., assignor.)
Cloer, William R., Legerwood, N. C. Jar holder. 1,477,865; Dec. 18.
Cobaugh, Harry A., East Orange, N. J., assignor to The Rossendale-Reddaway Belting & Hose Co., New York, N. Y. Fabric belt and making the same. 1,478,025; Dec. 18.
Coghlan, Timothy A., London, England. Treatment of wool to prepare it for manufacture. 1,478,203; Dec. 18.
Cogswell, Leander A., assignor to Lacene Manufacturing Company, Manchester, N. H. Marker for leather graders. 1,477,633; Dec. 18.
Combination Machine Company. (See Peterson, J. and Thom, assignors.)
Combination Machine Company. (See Peterson, Jonathan, assignor.)
Comlossy, George L., Toledo, Ohio. Packing guide for fruit and vegetable containers. 1,477,542; Dec. 18.
Compagnie pour la Fabrication des Compteurs et Materiel d'Usines a Gaz. (See Millet, Laurent, assignor.)
Conklin, Wright, and W. Wissinger, Los Angeles, Calif. Automobile lock. 1,478,275; Dec. 18.
Connecticut Telephone and Electric Company, The. (See Donle, Harold P., assignor.)
Connor, Martha H., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Combined shipping case and display rack. 1,477,634; Dec. 18.
Cooney, Edward H., H. C. Eklund, and S. T. Wiprud, Great Falls, Mont.; said Cooney assignor to said Eklund. Combined shovel and hoe. 1,478,204; Dec. 18.
Cooper, Abraham, Brooklyn, N. Y. Bridge arm for lighting fixtures. Des. 63,554; Dec. 18.
Costello, Joseph A., assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Faucet. 1,477,808; Dec. 18.
Cotey, Llewellyn F., Alexandria, La. Ice shaver. 1,478,175; Dec. 18.
Coto-Coil Company. (See Lewis, Ralph C., assignor.)
Coulson, William R., Sturgeon, Mo. Demountable rim. 1,478,103; Dec. 18.
Coulter, William R., Allentown, Pa. Gear shift and brake control. 1,478,176; Dec. 18.
Craig, James W., Providence, R. I. Device for promoting the combustion of carbon-monoxide gas. 1,478,104; Dec. 18.
Craig, James W., assignor to Carbon Monoxide Burner Company, Providence, R. I. Device for promoting the combustion of carbon-monoxide gas. 1,478,105; Dec. 18.
Craig, James W., assignor to Carbon Monoxide Burner Company, Providence, R. I. Device for promoting the combustion of carbon-monoxide gas. 1,478,106; Dec. 18.
Crain, Burton E., assignor of one-half to F. W. Crain, Springfield, Mo. Folding bed for vehicles. 1,478,358; Dec. 18.
Crain, Frank W. (See Crain, Burton E., assignor.)
Cramp, William, & Sons Ship and Engine Building Company. (See Overn, John, jr., assignor.)
Crampton, Ferd L., Kansas City, Mo. Automatic closing attachment for valves. 1,477,809; Dec. 18.
Crane Company. (See Heinze, William A., assignor.)
Crawford, Charles J., St. Louis, Mo. Manufacturing new and improved high refractory. 1,477,810; Dec. 18.
Crawford, Charles J., St. Louis, Mo. Metallurgical-furnace roof. 1,477,811; Dec. 18.
Crimmel, Alvie C. (See Lewis, J. A., and Crimmel.)
Crocker, William W., Salina, Kans. Egg beater. 1,477,943; Dec. 18.
Crockett, Burleigh N., Ayer, Mass. Automobile dining outfit. 1,477,812; Dec. 18.
Crompton & Knowles Loom Works. (See Chevrette, Augustin J., assignor.)
Crompton & Knowles Loom Works. (See Holmes, Elbridge R., assignor.)
Crompton & Knowles Loom Works. (See Robertson, William W., assignor.)
Cummings, William E. (See Dickerman, C. L., and Cummings.)
Cutler-Hammer Mfg. Co. (See Beck, Robert C., assignor.)
Cutler-Hammer Mfg. Co., The. (See Mortensen, Niels L., assignor.)
Cutler-Hammer Mfg. Co. (See Seeger, Edwin W., assignor.)
Dallanis, George, New York, N. Y. Lock. 1,478,322; Dec. 18.
Dalzell, Harry G., Chicago, Ill., assignor to Fostoria Glass Company, Moundsville, W. Va. Composite glass dish. 1,478,026; Dec. 18.
Daniel, John, assignor, by mesne assignments, to Koehring Company, Milwaukee, Wis. Chute-operating means. 1,477,543; Dec. 18.
Daniels, Ernest S., Washington, D. C., and H. P. Schuck, East Orange, N. J. Parquet flooring and wall paneling. 1,477,813; Dec. 18.
Daniels, Lloyd C., and W. S. Lawrence, Buffalo, assignors to National Aniline & Chemical Company, Inc., New York, N. Y. Production of vat dyestuffs. 1,478,027; Dec. 18.
D'Antonio, Remigius, New York, N. Y. Propelling mechanism in pedicycles. 1,477,544; Dec. 18.
Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Apparatus for handling ore and the like. 1,477,814; Dec. 18.
Davis, Jacob E., Ironton, Ohio. Gas heater. 1,477,998; Dec. 18.
Davis, William H., Charleston, W. Va. Method of and apparatus for collecting light products. 1,478,205; Dec. 18.
Davison, Walter H. (See Stewart, Harry B., assignor.)
Day, Robert G., assignor of one-half to H. M. Mady, Great Falls, Mont. Grade meter. 1,477,545; Dec. 18.
Dayton Manufacturing Company, The. (See Eckert, Joseph, assignor.)
Dean, Michael, Webster, Pa. Antiskid-chain-securing device. 1,478,323; Dec. 18.
De Béthune, Gaston, Brussels, Belgium. Apparatus for condensing distilled vapors. 1,478,206; Dec. 18.
Decker, Edward E., Elizabeth, N. J. Vent valve for radiators. 1,478,028; Dec. 18.
Deeks, Hiram C., Sea Cliff, N. Y. Producing printing surfaces. 1,477,866; Dec. 18.
Deenihan, James, Redondo Beach, Calif. Electrically-heated ice cutter. 1,477,631; Dec. 18.
De Forest, Lee, New York, N. Y. Radio receiving system. 1,478,029; Dec. 18.
De La Barre, Cecelia, Minneapolis, Minn. Culinary stirring device. 1,477,653; Dec. 18.
De Minico, Frank, assignor to Pollard-Alling Manufacturing Company, New York, N. Y. Typographic embossing machine. 1,478,030; Dec. 18.

Dempsey, Joseph W., Lansing, Iowa. Gas and liquid contact device. 1,477,546; Dec. 18.
Demuth, Alfred M., Chicago, Ill. Meat shaper and preserver. 1,477,548; Dec. 18.
Denemark, Jacob, Trenton, N. J. Seam-pressing machine. 1,477,547; Dec. 18.
Denning, David, Marlin, Tex. Cot-retaining device for ambulances. 1,477,815; Dec. 18.
Dessau, Morland M., London, England. Washboard. 1,478,177; Dec. 18.
Detroit Forging Company. (See Bladwin, Morton S., assignor.)
De Vere, Cyril, assignor to La Societe des Phonographes Automatiques, Paris, France. Phonograph. 1,477,944; Dec. 18.
Diboll, Collins C. (See Wright, Thomas B., assignor.)
Dickerman, Charles L., and W. E. Cummings, Houston, Tex. Cotton gin. 1,477,694; Dec. 18.
Diehl, George H., Jr., New York, N. Y. Bearing for skiving machines. 1,477,945; Dec. 18.
Diehl, Herman H., assignor to The West Virginia Rail Co., Huntington, W. Va. Railway-track construction. 1,478,107; Dec. 18.
Dieter, William, Brooklyn, N. Y., assignor to Vittlea Development Corporation. Packing gasket. 1,478,108; Dec. 18.
Dina, Augusto, Woodbridge, N. J. Universal joint. 1,478,324; Dec. 18.
Dobson, George, Sego, Utah. Mine drill. 1,477,749; Dec. 18.
Dodge, Dempsey K., Houston, Tex. Forming composite lubricants. 1,477,635; Dec. 18.
Dodson, David W., Wichita, Kans. Building wall. 1,477,867; Dec. 18.
Dolge, Arthur H., and C. F. Hendricks, Westport, Conn. Flexible spiral tube. 1,477,695; Dec. 18.
Dollman, Hubert, Birmingham, England. Pipe joint. 1,477,696; Dec. 18.
Doner, Martin J., Venice, Calif. Wall construction. 1,477,632; Dec. 18.
Donle, Harold P., assignor to The Connecticut Telephone and Electric Company, Incorporated, Meriden, Conn. Electronic emission. 1,477,869; Dec. 18.
Donle, Harold P., assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Method and apparatus for increasing electronic emission. 1,477,868; Dec. 18.
Doody, Denis, Montreal, Quebec, Canada. Shipping box. 1,478,325; Dec. 18.
Dooley, William J., New York, N. Y. Device for opening and closing sliding doors. 1,478,326; Dec. 18.
Doty, Nick M., Alcester, S. Dak. Automatic hog oiler. 1,478,178; Dec. 18.
Dougherty, Robert J., Canton, Ill. Railway-crossing signal. 1,477,697; Dec. 18.
Douglass, Leon F., Menlo Park, Calif. Method and apparatus for producing novel and multiple image effects in photography. 1,477,999; Dec. 18.
Downing, John E., assignor to Beaver Machine & Tool Company, Newark, N. J. Switch plug. 1,478,207; Dec. 18.
Draper Corporation. (See Ellison, B D Lenhart, assignor.)
Draper Corporation. (See Snow, Isaac, assignor.)
Draper Corporation. (See Stimpson, Edward S., assignor.)
Draver, Emil R., Richmond, Ind., assignor to B. F. Gump Company, Chicago, Ill. Feeder. 1,478,000; Dec. 18.
Dresser, S. R., Manufacturing Company. (See Clark, James, assignor.)
Duddleson, William J., and C. L. Slusher, San Luis Obispo, Calif. Moth destroying and repelling device. 1,478,208; Dec. 18.
Duke, Augustus F., assignor of one-half to J. M. Burke, Cedartown, Ga. Dirigible headlight for automobiles. 1,478,001; Dec. 18.
Dunlop Tire and Rubber Corporation of America. (See Germain, Edward B., assignor.)
Dunn, Alfred W., Honomu, Hawaii, and G. Potter, San Francisco, Calif. Cane-cutting-apparatus transmission gear. 1,478,327; Dec. 18.
Duryea, William C. (See Trowbridge, A., and Duryea.)
Dusseau, Cornelius J., Toledo, Ohio. Fountain shoe-blacking brush. 1,477,636; Dec. 18.
Eastburn, Oliver W., Jr., Kennett Square, assignor to E. B. Sharpless, Avondale, Pa. Tire valve. 1,478,002; Dec. 18.
Eaton, Albert E., Seattle, Wash. Utensil hanger. 1,478,209; Dec. 18.
Eaton, James H., Union, Ind. Running-board extension. 1,478,031; Dec. 18.
Eckert, Joseph, assignor to The Dayton Manufacturing Company, Dayton, Ohio. Bell-cord hanger. 1,477,549; Dec. 18.
Eckman, Lawrence R., et al. (See Leaver, Edmund S., assignor.)
Edmunds and Jones Corporation. (See Godley, Charles E., assignor.)
Ehlers, Frank, Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company. Gauge. 1,478,328; Dec. 18.
Ek, Arvid, assignor to Brown Company, Portland, Me. Dispensing cabinet. 1,478,329; Dec. 18.
Eklund, Alexander. (See Thoma, A. J., and Eklund.)
Eklund, Hildore C. (See Cooney, E. H., Eklund, and Wiprud.)
Electone Company. (See Seiffert, George, assignor.)
Electric Forge Corporation, The. (See Henry, Ira W., assignor.)
Elers, Karl F., Oakmont, Pa. Creep check for rails. 1,477,637; Dec. 18.
Ellis, Carleton, Montclair, N. J. Artificial resin and preparation. 1,477,870; Dec. 18.
Ellison, B D Lenhart, Atlanta, Ga., assignor to Draper Corporation, Hopedale, Mass. Warp stop mechanism for looms. 1,478,210; Dec. 18.
Ellison, Edward H., assignor to Monarch Refillable Fuse Co., Jamestown, N. Y. Cartridge fuse. 1,478,109; Dec. 18.
Ellison, William A., assignor to D. F. Murphy, Salem, Mass. Strap wrench. 1,478,110; Dec. 18.
Elmore, Clement. (See Sikes, J. M., and Elmore.)
Emerson-Brantingham Company. (See Waterman, Lewis E., assignor.)
Emery, Victor J., Wollaston, Mass. Piston ring. 1,477,550; Dec. 18.
Emmelin, Alfred, New York, N. Y. Pneumatic cannon. 1,477,698; Dec. 18.
Endrea, Edward S. A., Chicago, Ill., assignor to Waterproofing, Incorporated, Indianapolis, Ind. Combined shoe and arch support. 1,477,750; Dec. 18.
Enger, Neil C. (See Gaarder, L. G., and Enger.)
Ensign, Orville H. (See Ensign, Roy F. and O. H.)
Ensign, Roy F. and O. H., Pasadena, Calif. Vortex-type updraft carburetor. 1,477,946; Dec. 18.
Ensign, Roy F., Pasadena, Calif. Fuel cleaner. 1,477,947; Dec. 18.
Eva, Calvin A., Austin, Tex. Belt attachment. 1,477,551; Dec. 18.
Evermann, Frederick F., Los Angeles, Calif. Live-bait box. 1,478,179; Dec. 18.
Farbenfabriken vorm. Friedr. Bayer and Co. (See Callsen, Jurgen, assignor.)
Fargo Foundry Company, The. (See Kinney, Arthur G., assignor.)
Farley, Frederick E., et al. (See Welton, William A., assignor.)
Farmer, Harlin G., Garnett, Kans. Aeroplane. 1,478,211; Dec. 18.
Farnum, William C., Fitchburg, Mass. Lifting jack. 1,478,111; Dec. 18.
Farrand, Dudley, Newark, N. J. Exhaust silencer. 1,477,816; Dec. 18.
Fegley, Thomas J., and G. O. Leopold, assignors to North Bro's M'f'g Co., Philadelphia, Pa. Ratchet mechanism. 1,478,212; Dec. 18.
Feigenbaum, Joseph, assignor to Safety Concrete Incinerator Co., Inc., Los Angeles, Calif. Incinerator. 1,477,638; Dec. 18.
Feldman, Frank J. (See Reed, Lester C., assignor.)
Fellows, Perry E., Rochester, N. Y. Connecting link. 1,478,003; Dec. 18.
Ferguson Brothers Manufacturing Company. (See Ferguson, Louis, assignor.)
Ferguson, Louis, New York, N. Y., assignor to Ferguson Brothers Manufacturing Company, Hoboken, N. J. Folding table. 1,478,004; Dec. 18.
Field, Joseph C., Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,478,005; Dec. 18.
First Wisconsin Trust Company. (See Smith, Reuben S., assignor.)
Fischer, Joseph B., Chicago, Ill. Fermentation bung. 1,477,552; Dec. 18.
Fishback, Lloyd E., El Dorado, Ark. Tackle block. 1,477,639; Dec. 18.
Fisher, Alva J., Evanston, assignor to Hurley Machine Company, Chicago, Ill. Means for making machine elements. 1,477,640; Dec. 18.
Fisher, William H., Los Angeles, and P. Chambers, Redondo Beach, Calif. Apparatus for treating iron and iron alloys. 1,478,366; Dec. 18.
Fisher, William H., Los Angeles, and P. Chambers, Redondo Beach, Calif. Treating iron and its alloys. 1,478,367; Dec. 18.
Flather, Frederick A., assignor to Boott Mills, Lowell, Mass. Towel. 1,478,112; Dec. 18.
Foley, Joseph W., Los Angeles, Calif. Night and day auto shade. 1,478,276; Dec. 18.
Ford Motor Company of Delaware. (See Allison, Fred, assignor.)
Ford Motor Company. (See Galamb, Joseph, assignor.)
Førisdal, Anton O., Lillehammer, Norway. Brush or broom holder. 1,478,213; Dec. 18.
Foster, Alex. (See Peters, W. K., and Foster.)
Foster, Clarence B., Glendale, assignor to Union Tool Company, Torrance, Calif. Power hitch for pump cables. 1,477,817; Dec. 18.
Fostoria Glass Company. (See Dalzell, Harry G., assignor.)
Fowler, Alfred B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stop mechanism. 1,477,699; Dec. 18.
Fowler, Charles, Tomkins Cove, N. Y. Insect catcher. 1,478,330; Dec. 18.
Francis, Albert W., Latrobe, assignor to C. H. Hook, Pittsburgh, Pa. Snap-acting gas-control valve. 1,477,641; Dec. 18.

Franklin, Charles A., Philadelphia, Pa. Face-turning machine. 1,478,331; Dec. 18.
Fraser, Robert O., Seattle, Wash. Device for making sandwiches. 1,478,113; Dec. 18.
Fredericks, Henry, et al. (See Mason, William S., assignor.)
Fried. Krupp Aktiengesellschaft. (See Breitling, Ernst, assignor.)
Frink, I. P., Inc. (See Spencer, William H., assignor.)
Frost, Jesse M. (See Souders, H. V., and Frost.)
Fuller, Birney H., Los Angeles, Calif., assignor to United Steel and Wire Co., Battle Creek, Mich. Wire basket or receptacle. 1,477,700; Dec. 18.
Gaarder, Lester G., and N. C. Enger, Oshkosh, Wis. Fountain pen. 1,478,332; Dec. 18.
Galamb, Joseph, assignor to Ford Motor Company, Detroit, Mich. Vehicle top. 1,477,751; Dec. 18.
Galamb, Joseph, assignor to Ford Motor Company, Detroit, Mich. Drip molding and trim rail. 1,477,752; Dec. 18.
Gallagher, Charles R., Los Angeles, Calif., assignor of one-half to A. A. Kramer, Kansas City, Mo. Liquid-sealed deck for tanks. 1,478,359; Dec. 18.
Gallsworthy, Benjamin, Tampico, Mexico, assignor to The Texas Company. Distilling materials in contact with porous substances. 1,477,642; Dec. 18.
Gardner, John, Carnforth, England. Windmotor. 1,478,214; Dec. 18.
Geist, Harry F., Aurora, Ill. Undergarment. 1,478,006; Dec. 18.
General Chain Company. (See Thoma, A. J., and Eklund, assignors.)
General Electric Company. (See Adams, Nathan H., assignor.)
General Electric Company. (See Bower, George W., assignor.)
General Electric Company. (See Hildebrand, L. E., and Thomson, assignors.)
General Electric Company. (See Krueger, Carl R., assignor.)
General Electric Company. (See Leddick, George, assignor.)
General Electric Company. (See Rice, Chester W., assignor.)
General Electric Company. (See Standerwick, Reginald G., assignor.)
General Electric Company. (See Steinmetz, C. P., and Standerwick, assignors.)
General Electric Company. (See Wagner, Robert E., assignor.)
Geoghegan, Howard G. (See Griffith, F. P., Lindsay, and Geoghegan.)
Geringer, Isidor. (See Geringer, Moris and I.)
Geringer, Moris and I., New York, N. Y. Fixture arm. Des. 63,555; Dec. 18.
Gerlat, Paul E., Sheboygan, Wis. Shipping device for articles of cylindrical shape. 1,477,818; Dec. 18.
Germain, Edward B., assignor to Dunlop Tire and Rubber Corporation of America, Buffalo, N. Y. Tire tread. Des. 63,556; Dec. 18.
Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Motor-starting switch. 1,477,871; Dec. 18.
Getting, Georges, and A. Jonas, St.-Denis, France. Driving belt. 1,478,114; Dec. 18.
Glesecke, Carl, Bad Harzburg, Germany. Making agglomerates of fine ores. 1,478,215; Dec. 18.
Gilbody, Fred H., Prestbury, near Macclesfield, England. Bracket for pulleys, levers, or the like. 1,478,216; Dec. 18.
Gillett, Charles E., assignor to Norton Company, Worcester, Mass. Process and apparatus for classifying grinding wheels. 1,478,333; Dec. 18.
Gillier, André, Troyes, France. Rectilinear knitting frame for the production of openwork sinker wales. 1,478,115; Dec. 18.
Given, Arthur, Newark, N. J., assignor to Stevens-Aylsworth Company, New York, N. Y. Extracting sulphur from spent oxide from gas plants. 1,478,180; Dec. 18.
Glowacki, John B., Chicago, Ill. Fuse plug. 1,477,643; Dec. 18.
Godley, Charles E., assignor to Edmunds and Jones Corporation, Detroit, Mich. Lamp. 1,477,819; Dec. 18.
Good-Will Mfg. Company. (See Larson, Henry I., assignor.)
Goodman Manufacturing Company. (See Davis, Charles E., assignor.)
Goodrich, B. F., Company, The. (See Whitmarsh, Robert B., assignor.)
Goodrich, B. F., Company, The. (See Winkelmann, H. A., and Gray, assignors.)
Goodyear Tire & Rubber Company. (See Bedford, Clayton W., assignor.)
Goodyear Tire & Rubber Company, The. (See Bedford, C. W., and Sibley, assignors.)
Goodyear Tire & Rubber Company, The. (See Kilborn, K. B., and Shively, assignors.)
Goodyear Tire & Rubber Company, The. (See Lewis, Warren K., assignor.)
Graser, Thomas T., assignor to Sure-Cut Sharpener Co., Inc., Syracuse, N. Y., Knife sharpener. 1,477,820; Dec. 18.
Gray, Frank O., Harvard, Ill. Automobile direction indicator. 1,478,007; Dec. 18.
Gray, Harold. (See Winkelmann, H. A., and Gray.)
Gray, D. Webb., assignor of one-half to W. T. Louder, Los Angeles, Calif. Printing frame. 1,478,217; Dec. 18.
Green Engineering Company. (See Poppenhusen, H. A., and Strong, assignors.)
Green Engineering Company. (See Poppenhusen, Herman A., assignor.)
Green, Nathaniel R., Sioux City, Iowa. Bank protective device. 1,477,701; Dec. 18.
Green, Walter H., Chicago, Ill. Base-exchange material and preparing same. 1,477,753; Dec. 18.
Greene, Samuel L., Waterbury, Conn. Vehicle wheel. 1,477,948; Dec. 18.
Greenleaf, Robert P., assignor to F. Billings, Cleveland, Ohio. Loading machine. 1,477,754. Dec. 18.
Greenwald, Isidor, New York, assignor to Astoriold Manufacturing Co. Inc., Brooklyn, N. Y. Coil mounting for radio apparatus. 1,477,822; Dec. 18.
Grefe, Hugo, Ludenscheidt, Germany. Profiling machine. 1,478,334; Dec. 18.
Gregg, Alfred W., Chicago, assignor to Whiting Corporation, Harvey, Ill. Electric melting furnace. 1,477,821; Dec. 18.
Griffith, Frederick P., J. Lindsay, and H. G. Geoghegan, Dublin, Ireland. Vehicle. 1,477,949; Dec. 18.
Griffiths Bros. & Company. (See Britton, Reginald P. L., assignor.)
Grindle, Aubrey J., Chicago, assignor to Grindle Fuel Equipment Company, Harvey, Ill. Rotary drier. 1,477,823; Dec. 18.
Grindle, Aubrey J., Chicago, assignor to Grindle Fuel Equipment Company, Harvey, Ill. Powdered-material-firing apparatus. 1,477,824; Dec. 18.
Grindle Fuel Equipment Company. (See Grindle, Aubrey J., assignor.)
Grissinger, Elwood, assignor to L. A. Grissinger, Buffalo, N. Y. Method and means for amplifying and projecting sound. 1,477,553; Dec. 18.
Grissinger, Elwood, assignor to L. A. Grissinger, Buffalo, N. Y. Sound projector. 1,477,554; Dec. 18.
Grissinger, Elwood, assignor to L. A. Grissinger, Buffalo, N. Y. Sound-amplifying projector. 1,477,555; Dec. 18.
Grissinger, Elwood, Buffalo, N. Y. Sound-projecting apparatus and method. 1,477,556; Dec. 18.
Grissinger, Lucy A. (See Grissinger, Elwood, assignor.)
Griswold, J. Louis. (See Lother, P. H., and Griswold.)
Groves, Earl C., Hobson, assignor of one-third to Waite Land and Livestock Company, Utica, and one-third to J. E. Lane, Lewiston, Mont. Rotary engine. 1,477,950; Dec. 18.
Grünstein, Nathan, Frankfort-on-the-Main, Germany. Regenerating mercury catalyst. 1,477,951; Dec. 18.
Guenst, William, Philadelphia, assignor of one-half to S. S. Newman, Pittsburgh, Pa. Power reverse gear. 1,477,557; Dec. 18.
Gump, B. F., Company. (See Draver, Emil R., assignor.)
Gundlach, Paul, Bremen, Germany. Kneading machine specially for dry and slimy masses. 1,478,116; Dec. 18.
Hackett, William, Port Alberni, British Columbia, Canada. Water wheel. 1,477,558; Dec. 18.
Hagan, George J., trustee. (See Hopwood, J. M., and Bannister, assignors.)
Haket, John, Los Angeles, Calif. Water kettle. 1,477,644; Dec. 18.
Hall, Akos J., Cleveland, Ohio. Stair platform and landing. 1,478,277; Dec. 18.
Hall, Francis C., Washington, D. C. Hanger. 1,477,702; Dec. 18.
Hall, Ray E., Chicago, Ill., assignor to Hall Research Corporation. Signal-receiving system and method. 1,477,645. Dec. 18.
Hall Research Corporation. (See Hall, Ray E., assignor.)
Hall, Robert F., Schenectady, N. Y. Locomotive. 1,477,952; Dec. 18.
Hall, Russell G. (See Bailey, Laurel L., assignor.)
Hamblin, Clyde M., Washington, D. C. Fastening device. 1,478,218; Dec. 18.
Hamel Shoe Machinery Company. (See Reardon, Fred A., assignor.)
Hamlin, Ben M., assignor to J. V. Meyering Trunk Company, Chicago, Ill. Combined drawer-locking device and ironing board for wardrobe trunks. 1,477,559; Dec. 18.
Hammitt, Howard, Plainfield, N. J. Pocket memorandum holder. 1,478,219; Dec. 18.
Handlan, Alexander H., St. Louis, Mo. Lantern. 1,477,755; Dec. 18.
Hansen Canning Machinery Corporation. (See Hansen, Oswald H., assignor.)
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Oiling device for rock drills. 1,478,220; Dec. 18.
Hansen, Oswald H., assignor to Hansen Canning Machinery Corporation, Port Washington, Wis. Sterilizing apparatus. 1,478,221; Dec. 18.
Hansen, Oswald H., assignor to Hansen Canning Machinery Corporation, Port Washington, Wis. Cooker. 1,478,222; Dec. 18.
Hansen, Oswald H., assignor to Hansen Canning Machinery Corporation, Port Washington, Wis. Sterilizing apparatus. 1,478,223; Dec. 18.

Harding, Charles B., et al. (See Mason, William S., assignor.)
Harlow, John, Oceanpark, assignor of one-half to H. Paine, Los Angeles, Calif. Apparatus for making moving portraits. 1,478,278; Dec. 18.
Harlow, John B., Upper Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,478,008; Dec. 18.
Harris, Gordon L. (See Van Ilowagen, Frank, assignor.)
Harrison, William H., Hollis, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,477,874; Dec. 18.
Haynes, William L., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Centrifugal pipe mold. 1,477,872; Dec. 18.
Hays, Athol B., Bucyrus, N. Dak. Storm-sash banger. 1,477,953; Dec. 18.
Heath, Edwin G., Concord, N. H. Adjustable shade holder. 1,477,554; Dec. 18.
Heddon, Charles, and W. A. Stolley, Dowagiac, Mich. Artificial fish bait. 1,477,756; Dec. 18.
Heidstrom, Carl. (See Berg, Emil G., assignor.)
Heeney, Joseph P., Medford, Mass. Floor connection for soil pipes and the like. 1,477,560; Dec. 18.
Heinze, William A., assignor to Crane Company, Chicago, Ill. Die-casting machine. 1,478,117; Dec. 18.
Heitler, George, New York, N. Y. Wedge attachment for shoes. 1,477,825; Dec. 18.
Heitzman, Robert J., Union Hill, N. J. Detector stand. 1,477,826; Dec. 18.
Henderson, Edward J., assignor to The P. B. Yates Machine Company, Limited, Hamilton, Ontario, Canada. Nailing machine. 1,478,118; Dec. 18.
Hendricks, Charles F. (See Dolge, A. H., and Hendricks.)
Hendryx, Andrew B., Co., The. (See Chadwick, Alfred, assignor.)
Henne, George C., Herrin, Ill. Attachable rain shield for automobiles. 1,478,279; Dec. 18.
Hennessy, James E., Los Angeles, and C. F. Blattner, Long Beach, Calif. Fruit-juice machine. 1,478,224; Dec. 18.
Henry, Ira W., assignor to The Electric Forge Corporation, New York, N. Y. Electric welding or forging apparatus. 1,478,225; Dec. 18.
Henry, Ira W., assignor to The Electric Forge Corporation, New York, N. Y. Electric-weld-forging mat. 1,478,226; Dec. 18.
Henry, René A., Liege, Belgium. Apparatus for washing coal and the like. 1,477,955; Dec. 18.
Henton, John M., Hot Springs, S. Dak. Beet lifter. 1,477,561; Dec. 18.
Herman, Joseph L., Peoria, Ill. Coating and treating materials. 1,477,703; Dec. 18.
Herskovitz, Max, assignor to Peerless Light Company, Chicago, Ill. Electric-light cluster socket. 1,478,119; Dec. 18.
Herskovitz, Max, Chicago, Ill. Flexible chain for electric-lighting fixtures and portable lamps. 1,478,009; Dec. 18.
Heseltine, Joseph R. E., Birmingham, assignor to R. A. Taunton, Hawkinge, Kent, England. Curtain suspender. 1,477,556; Dec. 18.
Hibbard, Robert L., and F. W. Wappat, Pittsburgh, Pa. Gear cutting. 1,477,562; Dec. 18.
Hickok Manufacturing Company. (See Shields, Lowell W., assignor.)
Hildebrand, Lee E., and D. P. Thomson, Lynn, Mass., assignors to General Electric Company. Instrument for transmitting angular movement. 1,477,827; Dec. 18.
Hill, Frank M., Camden, N. J. Means for brine circulation. 1,478,120; Dec. 18.
Hill, Frank M., Camden, N. J. Ice box for use at soda fountains. 1,478,121; Dec. 18.
Hill, Myron F., New York, N. Y. Ship. 1,477,646; Dec. 18.
Hine, Cicero, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company. Cue rack. 1,478,032; Dec. 18.
Hinkle, Claude L., Winchester, Va. Apparatus for the manufacture of vinegar. 1,477,957; Dec. 18.
Hirschfeld, Herman C., and R. S. Mayer, Eastland, Tex. Well-drilling apparatus. 1,477,563; Dec. 18.
Hirt, Linus C., Des Moines, Iowa. Combination phonograph cabinet and chair. 1,477,828; Dec. 18.
Hoffman, Keva, Chicago, Ill. Combination faucet. 1,478,227; Dec. 18.
Hoge Manufacturing Company, The. (See Saunders, William M., assignor.)
Hoke, Jacob F., jr. (See Holcomb, J. L., and Hoke.)
Holcomb & Hoke Mfg. Co. (See Holcomb, J. L., and Hoke, assignors.)
Holcomb, James L., and J. F. Hoke, jr., assignors to Holcomb & Hoke Mfg. Co., Indianapolis, Ind. Pop-corn machine. 1,477,704; Dec. 18.
Holmes, Elbridge R., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Spool-tension device. 1,477,958; Dec. 18.
Holmested, Francis K., Charleston, W. Va. Coal cutting and loading machine. 1,478,280; Dec. 18.
Holmested, Francis K., Charleston, W. Va. Coal cutting and loading machine. 1,478,281; Dec. 18.
Hook, Charles H. (See Francis, Albert W., assignor.)
Hook, Charles H., Pittsburgh, Pa. Snap-acting gas-control valve. 1,477,647; Dec. 18.
Hopkins, William L., Roslyn, N. Y., assignor to American Lithographic Company, New York, N. Y. Display device. 1,478,033; Dec. 18.
Hopwood, John M., Dormont, and B. Bannister, Pittsburgh, assignors to G. J. Hagan, trustee, Perrysville, Pa. Pump. 1,478,228; Dec. 18.
Horne, Harry M., Hilton, N. J. Cover for ironing rolls. 1,478,229; Dec. 18.
Horstman, Henry, Kearney, Nebr. Bracket. 1,478,122; Dec. 18.
Hortz, Abraham, Philadelphia, Pa. Aerial advertising device. 1,478,034; Dec. 18.
Hothersall, John M., Brooklyn, N. Y. Pouring-spout container. 1,478,035; Dec. 18.
Hovland, Henry. (See Carpenter, W. W., and Hovland.)
Howes, George W., assignor to Beckwith Company, Dowagiac, Mich. Gas oven. 1,477,705; Dec. 18.
Hudson, Charles J., and W. C. Brogn, assignors to Norton Company, Worcester, Mass. Method of and apparatus for grading. 1,478,335; Dec. 18.
Huebner, Haus, assignor to Moe-Bridges Company, Milwaukee, Wis. Husk for lighting fixtures. Des. 63,557; Dec. 18.
Hughes, Robert D., Lynchburg, Va. Shock absorber. 1,477,959; Dec. 18.
Hughes, Walter J., and A. S. Behrman, assignors to International Filter Co., Chicago, Ill. Zeolite and preparing same. 1,477,757; Dec. 18.
Hulse, Edison G., assignor to Kelly-Springfield Tire Company, Cumberland, Md. Resilient tire. 1,477,564; Dec. 18.
Hunt, Rowland, Hackney, London, England. Folding box or carton. 1,478,336; Dec. 18.
Hunter, Robert L., Norfolk, Va. Flash light. 1,478,282; Dec. 18.
Hunter, Thomas M. (See Snodgrass, H. E., and Hunter.)
Hurley Machine Company. (See Fisher, Alva J., assignor.)
Hurt, Samuel N., assignor to Toledo Scale Company, Toledo, Ohio. Pivot bearing. 1,478,123; Dec. 18.
Huston, John T., Columbus, Ga. Hand peanut sheller. 1,477,649; Dec. 18.
Huston, John T., Columbus, Ga. Peanut-shelling machine. 1,477,648; Dec. 18.
Hutchison, Charles B., Kansas City, Kans. Brake-testing mechanism. 1,477,960; Dec. 18.
Hydraulic Pressed Steel Company, The. (See Thomas, Owen, assignor.)
Hygrade Engineering Co. (See Wetmore, Miner P., assignor.)
Ideal Automatic Train Control Company, The. (See Call, Ira A. and J. C., assignors.)
Ideal Electric & Manufacturing Co., The. (See Schon, T., and Behrens, assignors.)
Ilg Electric Ventilating Company. (See Sutcliffe, Arthur G., assignor.)
Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
International Gas, Power and Appliance Company. (See Meyers, Roy J., assignor.)
International Filter Co. (See Hughes, W. J., and Behrman, assignors.)
Isaachsen, Isak, Christiania, assignor to A/S De Norske Saltverker, Bergen, Norway. Method of treating solutions to obtain solid constituents thereof separated in a coarse condition. 1,478,337; Dec. 18.
Isom, Benjamin O., Marysville, Mich. Spindle. 1,478,338; Dec. 18.
Iwen, Edwin W., Shawano, Wis. Cheese box. 1,478,181; Dec. 18.
Jacobs, Hannah, Brooklyn, N. Y. Hair-waving device. 1,477,873; Dec. 18.
James, Sidney V., Niagara Falls, N. Y., assignor to Simeon L. and George H. Rogers Company, Hartford, Conn. Spoon or similar article. Des. 63,558; Dec. 18.
Jayne, Wade H., New York, N. Y. Mop head. 1,478,339; Dec. 18.
Jenkins, William F., New Rochelle, N. Y., assignor to Bauer & Black, Chicago, Ill. Athletic supporter. 1,477,565; Dec. 18.
Johansen, Ernst M., assignor to The Atlantic Refining Company, Philadelphia, Pa. Sulpho compound and its production. 1,477,820; Dec. 18.
Johnson, Charles E., Muskegon, Mich. Attachment for piston-ring-grinding machines. 1,477,758; Dec. 18.
Johnson, Edward E., St. Paul, Minn. Coupling. 1,478,124; Dec. 18.
Johnson, Harold A., Bristol, England. Apparatus for synchronization. 1,478,230; Dec. 18.
Jonas, Adrien. (See Getting, G., and Jonas.)
Jones, Roy G., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Purification of gases. 1,478,036; Dec. 18.
Kaestner & Hecht Company. (See Clancy, John F., assignor.)
Kaplan, Mordnch L., Brooklyn, N. Y. Electric candle lamp. 1,477,875; Dec. 18.
Kaplan, Mordnch L., Brooklyn, N. Y. Electric-battery lamp. 1,477,876; Dec. 18.
Kaplan, Mordnch L., Brooklyn, N. Y. Electric-battery lamp. 1,477,877; Dec. 18.
Kaplan, Mordnch L., Brooklyn, N. Y. Electric-battery lamp. 1,477,878; Dec. 18.
Karl, Heinrich, Jersey City, N. J. Toothbrush and making it. 1,477,706; Dec. 18.

Kaszinski, Benedykt A., New York, N. Y. Hat and garment holder. 1,477,566; Dec. 18.
Katzinger, Arthur, assignor to Edward Katzinger Company, Chicago, Ill. Cake pan. 1,477,650; Dec. 18.
Katzinger, Edward, Company. (See Katzinger, Arthur, assignor.)
Kear, George C., Rochester, N. Y. Ball valve. 1,478,125; Dec. 18.
Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,478,037; Dec. 18.
Kelly-Springfield Tire Company. (See Hulse, Edison G., assignor.)
Kesten, Paul, Huckelshofen, near Aachen, and H. Osborne, Berlin-Wilmersdorf, Germany, assignors, by mesne assignments, to Otis Elevator Company, New York, N. Y. Automatic brake for elevators. Re15,733; Dec. 18.
Keystone Steel & Wire Company. (See Sommer, William H., assignor.)
Keystone Watch Case Company, The. (See Ritschard, Victor, assignor.)
Kiessig, Edwin O., St. Louis, Mo., assignor to E. L. Logee Company, Providence, R. I. Emblem, pin, or button. Des. 63,559; Dec. 18.
Kilborn, Karl B., and W. E. Shively, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. System of control for vulcanizers. 1,477,879; Dec. 18.
Kimball, A., Company. (See Marsh, Alonzo K., assignor.)
King, Frank A., Englewood, Colo. Spotlight. 1,477,961; Dec. 18.
King, Lawrence W., Kansas City, Mo. Necktie fastener. 1,477,759; Dec. 18.
Kinney, Arthur G., assignor to The Fargo Foundry Company, Fargo, N. Dak. Street-lamp post. Des. 63,560; Dec. 18.
Kinzler, Edward F., Pittsburgh, Pa. Indicator. 1,477,962; Dec. 18.
Kitsee, Isidor, Philadelphia, Pa. Producing multicolored screens. 1,477,880; Dec. 18.
Kitsee, Isidor, Philadelphia, Pa. Producing integral multicolored screens on photographic blanks. 1,477,881; Dec. 18.
Kitsee, Isidor, Philadelphia, Pa. Producing integral multicolored screens on photographic blanks. 1,477,882; Dec. 18.
Kitsee, Isidor, Philadelphia, Pa. Polychromatic screens integral with moving-picture films. 1,477,883; Dec. 18.
Kline, William, Philadelphia, Pa. Dispensing device. 1,477,760; Dec. 18.
Klinge, William, Alexandria, Va. Child's vehicle. 1,477,830; Dec. 18.
Koehring Company. (See Daniel, John, assignor.)
Koehring Company. (See Lichtenberg, Erich H., assignor.)
Koeln, Christian C., St. Louis, Mo. Boring tool. 1,477,651; Dec. 18.
Koenig, Charles J., New Baltimore, Mich. Folding stool or chair. 1,477,652; Dec. 18.
Kohl, Frederick W., assignor to Kohl Hardware Co., Ripon, Wis. Camp stove. 1,477,831; Dec. 18.
Kohl Hardware Co. (See Kohl, Frederick W., assignor.)
Kollstede, George, Providence, R. I., assignor to V. E. Black Company, Incorporated. Cuff button. 1,478,231; Dec. 18.
Kops Bros. Inc. (See Kops, Daniel, assignor.)
Kops, Daniel, assignor to Kops Bros. Inc., New York, N. Y. Apparel garment. 1,478,232; Dec. 18.
Kops, Daniel, assignor to Kops Bros. Inc., New York, N. Y. Apparel garment. 1,478,233; Dec. 18.
Kramer, Andrew A. (See Gallagher, Charles R., assignor.)
Krause, Walter, Friesack, Germany. Irrigation system. 1,478,234; Dec. 18.
Kroepel, Emil W. (See Clark, R. K., and Kroepel.)
Krueger, Carl R., Reno, Nev., assignor to General Electric Company. Sound-reproducing machine. 1,477,832; Dec. 18.
Krzyzak, Frank, assignor to Milk Bottle Crate Company, Chicago, Ill. Box and crate. 1,478,028; Dec. 18.
Kuhn, B. M. (See Wheeler, Charles F., assignor.)
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,478,235; Dec. 18.
Kyle, Jesse T. (See Russell, V. W., Kyle, and Campbell.)
Kyrides, Lucas P., Buffalo, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Triarylmethane dyes. 1,478,039; Dec. 18.
Labombarde, Elie W., Nashua, N. H. Reenforced paper-box member. 1,477,963; Dec. 18.
Lacene Manufacturing Company. (See Cogswell, Leander A., assignor.)
Lachman, Maurice, New York, N. Y., assignor to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. 1,477,884; Dec. 18.
Lamacchia, Otto, Bridgeport, Conn. Lamp. Des. 63,562; Dec. 18.
Lamb, Thomas B., New York, N. Y. Movie kerchief. 1,477,654; Dec. 18.
Lancaster, Henry P., London, England. Preparatory pile used in the construction of concrete piles. 1,477,567; Dec. 18.
Lancaster, Percy N., London, England. Apparatus for use in the construction of concrete piles. 1,477,568; Dec. 18.
Lane, J. E., et al. (See Groves, Earl C., assignor.)
Langdon, Ann D., Piedmont, Calif. Doll. Des. 63,563; Dec. 18.
Langdon, Ann D., Piedmont, Calif. Doll. Des. 63,564; Dec. 18.
Langford, William S., Baltimore, Md. Belting. 1,477,707; Dec. 18.
Larson, Henry I., Minneapolis, Minn., assignor to Good-Will Mfg. Company. Illuminated coin tray. 1,477,708; Dec. 18.
Lasko, Abraham, et al. (See Lasko, Joseph, assignor.)
Lasko, Joseph, assignor of one-half to A. Lasko and M. Lasko, New York, N. Y. Watchcase. 1,477,569; Dec. 18.
Lasko, Max, et al. (See Lasko, Joseph, assignor.)
La Societe des Phonographes Automatiques. (See De Vere, Cyril, assignor.)
Laughlin, Elmyr A., Oregon, Ill. Producing stock feed from coarse farm products. 1,477,964; Dec. 18.
Laughrin, George, Chava, Ill. Dirigible-lamp structure for automobiles. 1,478,283; Dec. 18.
Lawrence, Winthrop S. (See Daniels, L. C., and Lawrence.)
Leak, Charles, Centerville, Iowa. Combination tool. 1,477,833; Dec. 18.
Leavenworth, Seth H., assignor to The Van Bergh Silver Plate Co., Rochester, N. Y. Spiritual-mass card tray. Des. 63,565; Dec. 18.
Leaver, Edmund S., Tucson, Ariz., assignor of one-third to C. E. van Barneveld, St. Louis, Mo., and one-third to L. R. Eckman, Tucson, Ariz. Making solutions containing sulphuric acid and ferric sulphate. 1,477,965; Dec. 18.
Le Bus, George F. (See Lebus, John E., assignor.)
Lebus, John E., Electra, assignor to G. F. Le Bus, Wichita County, Tex. Toothless slip and elevator. 1,477,709; Dec. 18.
Leddick, George, Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,477,834; Dec. 18.
Lehmann, Charles L., New York, N. Y. Gasoline filter for internal-combustion engines. 1,477,885; Dec. 18.
Lehmann, Otto H., assignor to The Bearings Company of America, Lancaster, Pa. Making ball bearings. 1,477,570; Dec. 18.
Leonard, John G., Maywood, Ill. Packing. 1,478,040; Dec. 18.
Leopold, George O. (See Fegley, T. J., and Leopold.)
Letarte, Emile, Leominster, Mass. Comb. Des. 63,566; Dec. 18.
Leumann, Richard, Chailly-sur-Lausanne, Switzerland. Device for removing sheets singly from a pile of sheets. 1,477,835; Dec. 18.
Levin, Isaac H., New York, N. Y. Electrolytic cell for generating oxygen and hydrogen. 1,478,340; Dec. 18.
Levin, Isaac H., New York, N. Y. Electrolytic cell. 1,478,341; Dec. 18.
Lewis, James A., and A. C. Crimmel, Hartford City, Ind. Means for removing articles from molds. 1,478,126; Dec. 18.
Lewis, Ralph C., Providence, R. I., assignor to Coto-Coil Company, Boston, Mass. Electrical air condenser. 1,478,342; Dec. 18.
Lewis, Warren K., Newton, Mass., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Belt and the like. 1,477,886. Dec. 18.
Lichtenberg, Erich H., assignor, by mesne assignments, to Kochring Company, Milwaukee, Wis. Tractor. 1,477,571; Dec. 18.
Linde Air Products Company, The. (See Carter, G. O., and Pierce, assignors.)
Lindenberg, Otto H., Columbus, Ohio. Medal. Des. 63,567; Dec. 18.
Lindsay, James. (See Griffith, F. P., Lindsay, and Geoghegan.)
Lindstrom, Herman A., Seattle, Wash. Paper fastener. 1,477,966; Dec. 18.
Lindstrom, Herman A., Seattle, Wash. Punch for paper fasteners. 1,477,967; Dec. 18.
Ljungström, Fredrik, Lidingo-Brevik, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Locomotive provided with tubular air preheaters. 1,477,968; Dec. 18.
Logee, E. L., Company. (See Kiessig, Edwin O., assignor.)
Lonn, Charles E., Viola, Ill. Rim for wheels. 1,477,572; Dec. 18.
Lonuzzo, Tommaso, Bristol, Conn. Aeroplane. 1,478,284; Dec. 18.
Loomis, Nathaniel E. (See Clark, E. M., Loomis, and Carringer.)
Looney, Orin J., Bryn Mawr, Pa. Lock. 1,478,343; Dec. 18.
Lorenz, Wilhelm, Farmington, Mo. Vehicle towing frame. 1,478,041; Dec. 18.
Lother, Paul H., and J. L. Griswold, Columbus, Kans.; said Griswold assignor of one-half of his right to said Lother. Acetylene-gas generator. 1,478,285; Dec. 18.
Lotz, Adolph, jr. (See Ryburg, Emmett P., assignor.)
Louder, W. T. (See Gray, D. Webb, assignor.)
Lowrey, John R., San Pedro, Calif. Hose clamp. 1,477,573; Dec. 18.
Luby, William A., Kansas City, Mo. Lamp. 1,478,286; Dec. 18.

Luckenbach Processes, Inc. (See Luckenbach, Royer, assignor.)
Luckenbach, Royer, Brooklyn, N. Y., assignor to Luckenbach Processes, Inc., San Francisco, Calif. Composition of matter and using the same. 1,478,237; Dec. 18.
Ludwig, George, assignor to Moe-Bridges Company, Milwaukee, Wis. Lighting fixture. Des. 63,568; Dec. 18.
Lund, Thoman, Beverely, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-breasting machine. 1,477,574; Dec. 18.
Lunken, Edmund H., assignor to The Lunken Window Company, Cincinnati, Ohio. Window. 1,477,969; Dec. 18.
Lunken Window Company, The. (See Lunken, Edmund H., assignor.)
Lyle, Robert J., Kinmount, Ontario, Canada. Trolley shoe. 1,477,573; Dec. 18.
Lynch, Frank R. (See Reilly, J. S., and Lynch.)
Lynch, James F. C., Sioux City, Iowa. Wall construction. 1,478,127; Dec. 18.
Lyons, Charles D., Mansfield, Mass. Separable cuff link button or the like. 1,478,128; Dec. 18.
Lytle, Charles R. (See Mulligan, J., and Lytle.)
McClellan, Asa C. D., Memphis, Tenn. Thermometer case. 1,478,288; Dec. 18.
McCullough, Samuel W., Birmingham, Ala. Convertible wind and glare shield. 1,477,655; Dec. 18.
McDaniel, Charles T., Sullivan, Ind. Cutter head. 1,477,970; Dec. 18.
McDonald, Leslie R., Westmount, Quebec, Canada. Selective information apparatus. 1,477,887; Dec. 18.
McFarlane, Logan, Halton, near Leeds, England. Manufacture of molded articles, more particularly heels and soles for footwear. 1,477,576; Dec. 18.
McGahey, Robert E., Alexandria, Va. Automobile horn-button extension. 1,478,287; Dec. 18.
McGowan, Huzh J., assignor to Southard Robertson Company, Peekskill, N. Y. Gas hot plate. 1,477,971; Dec. 18.
McGowan, Owen J., Brooklyn, N. Y. Trip hook. 1,477,836; Dec. 18.
McGrew, Arlo R. (See Ware, Henry E., assignor.)
Macbeth-Evans Glass Company. (See Sloan, Theodore H., assignor.)
MacDowel, Andrew S., Rochester, N. Y. Typewriter copyholder. 1,478,344; Dec. 18.
MacGregor, Joseph, North Shields, England. Gauge for indicating the draft of ships. 1,478,288; Dec. 18.
Madison Battery and Service Company. (See Palmer, Aaron G., assignor.)
Mady, Harold M. (See Day, Robert G., assignor.)
Magnetic Signal Co. (See Morse, Mark S., assignor.)
Mahoney, John J., Taunton, Mass. Double-acting faucet. 1,478,289; Dec. 18.
Malligan, Joseph, and C. R. Lytle, Point Marion, Pa. Clutch band. 1,477,577; Dec. 18.
Mallory, George P. (See Ruckert, H. E., and Mallory.)
Mani-Fold Company, The. (See Mayer, George A., assignor.)
Mansel, Paul, Berlin-Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Time stamp. 1,477,972; Dec. 18.
Marble, Louis M., Canton, Pa. Garment hanger. 1,477,973; Dec. 18.
Marengo, August. (See Marengo, Joseph and A.)
Marengo, August, Stockton, Calif. Trap. 1,478,238; Dec. 18.
Marengo, Joseph and A., Stockton, Calif. Swimming belt. 1,478,239; Dec. 18.
Marinoni, Pietro, Milan, Italy. Piping for pressure fluids. 1,478,129; Dec. 18.
Markham Air Rifle Company. (See Roe, Ernest S., assignor.)
Marks, Nona J., Philadelphia, Pa. Garment hanger. 1,478,290; Dec. 18.
Marrazzo, Domenico, assignor of one-third to J. L. Trivisonno and one-third to S. Balzano, Brooklyn, N. Y. Rotary hand fan. 1,478,240; Dec. 18.
Marsh, Alonzo K., assignor to A. Kimball Company, New York, N. Y. Marking-ticket strip. 1,478,130; Dec. 18.
Marsh, Walt C., Belleville, Ill. Fountain stencil and marking brush. 1,477,578; Dec. 18.
Martin, Harold T., assignor to Western Electric Company, Incorporated, New York, N. Y. Multiple-unit switch. 1,478,042; Dec. 18.
Martin, John. (See Sharp, F., and Martin.)
Mason, William S., Norristown, assignor of one-third to C. B. Harding, Lansdowne, and one-third to H. Fredericks, Philadelphia, Pa. Metallic vehicle wheel. 1,478,291; Dec. 18.
Matheson, Ian E., Radville, Saskatchewan, Canada. Toboggan. 1,478,345; Dec. 18.
Matonick, Joseph, Ashley, Pa. Rivet holder. 1,477,579; Dec. 18.
Matson, Herman F., La Crosse, Wis. Safety steering device for cars. 1,478,241; Dec. 18.
Matteson, Jesse O., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Rotary cue rack. 1,478,043; Dec. 18.
Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Conductor support. 1,477,580; Dec. 18.
Mattison, Carl L., assignor to Mattison Machine Works, Rockford, Ill. Abrading or polishing machine. 1,478,044; Dec. 18.
Mattison Machine Works. (See Mattison, Carl L., assignor.)
May, James A., Nashville, N. C. Fish-stringing line. 1,477,656; Dec. 18.
Mayer, Fritz, Nuremberg, Germany, assignor to B. Stoerzer, Brooklyn, N. Y. Continuous kiln. 1,477,837; Dec. 18.
Mayer, George A., Lakewood, assignor to The Mani-Fold Company, Cleveland, Ohio. Form sheet. 1,477,581; Dec. 18.
Mayer Life Boat Co. (See Allbin, Sim E., assignor.)
Mayer, Robert S. (See Hirschfeld, H. C., and Mayer.)
Mayotte, John, assignor of one-half to J. Soulier, Odanah, Wis. Metallic beam splice. 1,477,838; Dec. 18.
Mead, Edward D., Caldwell, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Relay. 1,478,045; Dec. 18.
Means, Philip A., Cambridge, Mass. Foot-throttle-controlling mechanism for automobiles. 1,478,131; Dec. 18.
Measuregraph Company, The. (See Wheeler, John L., assignor.)
Melsezahl, Charles W., New York, N. Y. Bottle. Des. 63,569; Dec. 18.
Melxner, William J., Camden, N. J., assignor to Volgt Company, Philadelphia, Pa. Lighting fixture. Des. 63,570; Dec. 18.
Melxner, William J., Camden, N. J., assignor to Volgt Company, Philadelphia, Pa. Lighting fixture. Des. 63,571; Dec. 18.
Melxner, William J., Camden, N. J., assignor to Volgt Company, Philadelphia, Pa. Lighting fixture. Des. 63,572; Dec. 18.
Melxner, William J., Camden, N. J., assignor to Volgt Company, Philadelphia, Pa. Lighting fixture. Des. 63,573; Dec. 18.
Melxner, William J., Camden, N. J., assignor to Volgt Company, Philadelphia, Pa. Lighting fixture. Des. 63,574; Dec. 18.
Melxner, William J., Camden, N. J., assignor to Volgt Company, Philadelphia, Pa. Lighting fixture. Des. 63,575; Dec. 18.
Mendenhall, Oscar J., Gibbon, Nebr. Device for removing ties from railway tracks. 1,478,346; Dec. 18.
Mercer, Elbert. (See Suber, L., and Mercer.)
Metal Forms Corporation. (See Pulis, Oscar B., assignor.)
Metal Supply Company. (See Miller, David H. and A., assignors.)
Metals Production Company of North America Incorporated. (See Perkins, Walter G., assignor.)
Métérie, Emile J. (See Thoens, Burchard, assignor.)
Mettler, John C., assignor to Beardslee Chandelier Manufacturing Company, Chicago, Ill. Plate for lighting fixtures. Des. 63,576; Dec. 18.
Metzger, Harry C., assignor to Atlas Machine Works, Inc., Los Angeles, Calif. Piston construction. 1,478,361; Dec. 18.
Meyer, Anna, trustee. (See Schluesselburg, George, assignor.)
Meyer, William, Chicago, Ill. Mounting brackets and the like on tubes. 1,477,657; Dec. 18.
Meyering, J. V., Trunk Company. (See Hamlin, Ben M., assignor.)
Meyers, Roy J., assignor to International Gas, Power and Appliance Company, Long Beach, Calif. Means and method for operating combustion engines from gas derived from calcium carbide. 1,477,710; Dec. 18.
Milk Bottle Crate Company. (See Krzyzak, Frank, assignor.)
Miller, Abner. (See Miller, David H. and A.)
Miller, Abraham, New York, N. Y. Chandelier. Des. 63,577; Dec. 18.
Miller, Charles P., Mount Vernon, N. Y., assignor to The Brunswick-Balke-Collender Company, Wilmington, Del. Game-table cushion. 1,478,046; Dec. 18.
Miller, David H., and A. Miller, assignors to Metal Supply Company, Los Angeles, Calif. Rail-breaking machine. 1,477,582; Dec. 18.
Miller, Emma T., San Antonio, Tex. Berry cap and stem remover. 1,477,839; Dec. 18.
Miller, Frank W., Chicago, Ill. Automatic sludge-discharge apparatus for boiler-washout systems. 1,478,132; Dec. 18.
Miller, Harry L., Allentown, Pa. Repeating attachment. 1,477,658; Dec. 18.
Miller, Laurence L., Ripon, Calif. Almond huller. 1,477,761; Dec. 18.
Miller Rubber Company, The. (See Straiton, David, assignor.)
Millet, Laurent, assignor to Compagnie pour la Fabrication des Compteurs et Material d'Usines a Gaz, Paris, France. Gas meter with swinging bell-shaped members. 1,478,133; Dec. 18.
Milliken, William H., jr., Brooklyn, assignor to Binney & Smith Co., New York, N. Y. Paint box. 1,478,242; Dec. 18.
Mills, John, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Radio receiving system. 1,478,047; Dec. 18.
Mintz, Henry, Roxbury, assignor to New England Bedding Company, Boston, Mass. Folding bed. 1,477,659; Dec. 18.
Mitchell, Charles H., London, assignor, by mesne assignments, to said Mitchell and T. C. Bench, Kingston, Surrey, England. Gas cooker. 1,478,134; Dec. 18.

Mitchell, John L., Greenwich, Conn. Apparatus for calcining lithopone. 1,478,347; Dec. 18.
Moe-Bridges Company. (See Huebner, Hans, assignor.)
Moe-Bridges Company. (See Ludwig, George, assignor.)
Moller, Edvard M. (See Benedict, H. A., and Moller.)
Monarch Refillable Fuse Co. (See Ellison, Edward H., assignor.)
Monroe, Harry L., St. Louis, Mo. Disappearing furniture. 1,477,660; Dec. 18.
Montgomery, Adda S., Chippewa, Ontario, Canada. Abdominal and kidney belt. 1,477,583; Dec. 18.
Moore, Ambrose L., New Orleans, La. Self-locking concrete-form clamp. 1,477,974; Dec. 18.
Moore, Francis A., Springfield, Mass., assignor to Baush Machine Tool Company. Multiple-spindle machine. 1,477,888; Dec. 18.
Morel, Louis, assignor to A. L. Schmitz, Boulogne-sur-Seine, France. Spark plug. 1,478,135; Dec. 18.
Morse, Mark S., Los Angeles, Calif., assignor to Magnetic Signal Co. Coil cut-out for wigwag signals. 1,477,889; Dec. 18.
Mortensen, Niels L., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for driven machines. 1,477,840; Dec. 18.
Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Picker stick. 1,477,584; Dec. 18.
Mossberg Pressed Steel Corporation. (See Mossberg, Frank, assignor.)
Moynihan, Eugene J., Springfield, Mass. Fuel-oil burner. 1,478,136; Dec. 18.
Mulkey, Vollie F., Platte City, Mo. Spark plug. 1,478,292; Dec. 18.
Münzenmaier, Adolf. (See Münzenmaier, Richard, A., and H.)
Münzenmaier, Heinrich. (See Münzenmaier, Richard, A., and H.)
Münzenmaier, Richard, A., and H., Stuttgart-Cannstatt, Germany. Spindle mounting. 1,478,048; Dec. 18.
Murphy, David F. (See Ellison, William A., assignor.)
Murray, Howard J., New York, N. Y. Combined motor starter and gear shifter. 1,478,243; Dec. 18.
Murray, Michael, Chicago, Ill. Safety appliance for electric switches. 1,477,841; Dec. 18.
Musso, Frederick G., San Jose, Calif. Camp furniture. 1,478,244; Dec. 18.
Myers, Leonard, Gloversville, N. Y. Toy animal and making the same. 1,478,348; Dec. 18.
Narobe, Frank, New York, N. Y. Baking machine. 1,477,842; Dec. 18.
Nassoly, Leonard G., Niagara Falls, N. Y. Tire tread. Des. 63,578; Dec. 18.
National Aniline & Chemical Company. (See Bissell, Don W., assignor.)
National Aniline & Chemical Company. (See Daniels, L. C., and Lawrence, assignors.)
National Aniline & Chemical Company. (See Kyrides, Lucas P., assignor.)
National Aniline & Chemical Company. (See Rogers, D. G., and Stowell, assignors.)
National Fibreform Company. (See Thompson, Harry J., assignor.)
National Pneumatic Company. (See Rowntree, Harold, assignor.)
Neahr, Jacob E., New York, N. Y. Match safe. 1,477,890; Dec. 18.
Nebel, Walter, Sioux City, Iowa. Manufacture of cellulose acetates. 1,478,137; Dec. 18.
Neggesmith, Hermie C., New York, N. Y. Collar clasp. 1,477,762; Dec. 18.
Nells, Albert, assignor to Toledo Scale Company, Toledo, Ohio. Means for fastening articles in packing cases. 1,478,138; Dec. 18.
Nelson, Aaron F., Hollidaysburg, Pa. Dust cap for pneumatic-tire valves. 1,478,245; Dec. 18.
Nelson, Albert U., Portland, Oreg. Clip attachment for pocket-carried devices. 1,478,049; Dec. 18.
Nelson, Edward L., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Modulation circuits and measurement. 1,478,050; Dec. 18.
Nelson, Elmer O., Hatton, N. Dak. Loading apparatus. 1,477,712; Dec. 18.
New England Bedding Company. (See Mintz, Henry, assignor.)
Newark Tube Company. (See Snodgrass, H. E., and Hunter, assignors.)
Newman, Samuel S. (See Guenst, William, assignor.)
Nichols, Harold W., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Relay. 1,478,051; Dec. 18.
Niles-Bement-Pond Company. (See Sears, Willard T., assignor.)
Noble, Edward I. (See Shee, Parke E., assignor.)
Noonan, Maurice J., East Providence, R. I. Anti-sparrow-roosting device. 1,478,139; Dec. 18.
North Bro's M'f'g Co. (See Fegley, T. J., and Leopold, assignors.)
Northrup, Elmer C., San Francisco, Calif. Nailing machine. 1,478,362; Dec. 18.
Norton Company. (See Gillett, Charles E., assignor.)
Norton Company. (See Hudson, C. J., and Broga, assignors.)
Nowosielski, Edward B., Bloomfield, assignor to Splitdorf Electrical Company, Newark, N. J. Magneto-electric generator. 1,477,843; Dec. 18.
Nyström, Knut E. R., Stockholm, assignor to Aktiebolaget Optimus, Uplands-Vasby, Sweden. Apparatus for baking, roasting, cooking, and the like. 1,477,844; Dec. 18.
Oberndorfer Company. (See Oberndorfer, Ralph F., assignor.)
Oberndorfer, Ralph F., Milwaukee, Wis., assignor to Oberndorfer Company. Garment. 1,478,349; Dec. 18.
O'Brien, Raymond J., Butte, Mont. Sectional radiator for motor vehicles. 1,477,845; Dec. 18.
O'Connell, John, Allston, Mass. Kneeling pad. 1,477,763; Dec. 18.
Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
Ohm, Albert J. D., Astoria, N. Y., assignor to Max Schaffer Company. Back plate for a lamp fixture. Des. 63,579; Dec. 18.
Ohm, Albert J. D., Astoria, N. Y., assignor to Max Schaffer Company. Lamp fixture. Des. 63,580; Dec. 18.
Ohm, Albert J. D., Astoria, N. Y., assignor to Max Schaffer Company. Lamp fixture. Des. 63,581; Dec. 18.
Okamoto, Tomotaro, Fort Lupton, Colo. Cultivator. 1,477,846; Dec. 18.
Okel, Harry A., Wheeling, W. Va. Mechanical toy. 1,478,350; Dec. 18.
Olds, Ransom E., Lansing, Mich. Auxiliary tread for pneumatic-tired vehicle wheels. 1,477,661; Dec. 18.
Oliver, Joseph W., Grand Rapids, Mich. Sawing machine. 1,478,052. Dec. 18.
Olson, Jens, Lewiston, Idaho. Tape for wheels. 1,477,975; Dec. 18.
O'Neill, Philip L. (See Yallton, Frederick H., assignor.)
Orr, Mark P., Norwood, assignor to The Security Metal Products Company, Cincinnati, Ohio. Bottle-sealing device. 1,478,140; Dec. 18.
Orr, Mark P., Norwood, assignor to The Security Metal Products Company, Cincinnati, Ohio. Metal top for sealing glass containers. 1,478,141; Dec. 18.
Ortmann, Theodore, Pierz, Minn. Stone picker. 1,478,142; Dec. 18.
Osborn, Alden E., New York, N. Y. Automatically-adjusting turnbuckle. 1,477,891; Dec. 18.
Osborne, Heinrich. (See Kesten, P., and Osborne.)
Osgood, William S., jr., Chicago, Ill. Wringer attachment. 1,477,713; Dec. 18.
O'Shaughnessy, Laughlin J., Halifax, Nova Scotia, Canada. Life preserver. 1,478,351; Dec. 18.
Oswego Falls Corporation. (See Bond, Joseph T., assignor.)
Otis Elevator Company. (See Kesten, P., and Osborne, assignors.)
Otis, Spencer, Chicago, Ill. Automatic hot-water supply for tanks. 1,478,246; Dec. 18.
Ott, Clarence F., Whittier, Calif. Retort for destructive evolution and oxidation. 1,478,247; Dec. 18.
Overn, John, jr., Philadelphia, Pa., assignor to William Cramp & Sons Ship and Engine Building Company. Guide vane for hydraulic turbines. 1,478,053; Dec. 18.
Overn, John, jr., Philadelphia, Pa., assignor to William Cramp & Sons Ship and Engine Building Company. Guide vane for hydraulic turbines. 1,478,054; Dec. 18.
Overn, John, jr., Philadelphia, Pa., assignor to William Cramp & Sons Ship and Engine Building Company. Shaft bearing for hydraulic machines. 1,477,764; Dec. 18.
Owen, Frederick, Detroit, Mich. Container lid. 1,477,585; Dec. 18.
Paggi, Charles. (See Bashara, S. F., and Paggi.)
Pagonis, George, New York, N. Y. Rotary engine. 1,478,352; Dec. 18.
Paine, Arthur P., assignor to Winchester Repeating Arms Company, New Haven, Conn. Handlamp. 1,477,892; Dec. 18.
Paine, Herman. (See Harlow, John, assignor.)
Palmer, Aaron G., assignor to Madison Battery and Service Company, Madison, Wis. Magnetizing apparatus. 1,477,847; Dec. 18.
Papparodis, Nick, Beaver Falls, Pa. Envelope. 1,478,248; Dec. 18.
Pardee, Frank, Hazleton, Pa. Coal breaker. 1,477,848; Dec. 18.
Pardee, Frank, Hazleton, Pa., assignor to Anthracite Separator Company. Spiral separator and separating materials. 1,477,849; Dec. 18.
Parker, Edward H., Somerville, assignor to Pushpull Valve Cap Company, Boston, Mass. Dust cap for tire valves. 1,478,055; Dec. 18.
Parsons Company, The. (See Brown, Robert, assignor.)
Parsons, Gustaf A., St. Paul, Minn. Wheelbarrow. 1,478,293; Dec. 18.
Parsons, Philip D., Philadelphia, Pa., assignor, by mesne assignments, to Scott Paper Company. Machine for applying labels to paper rolls, etc. 1,477,893; Dec. 18.
Partenio, Peter C., Brooklyn, N. Y. Clothespin. 1,478,353; Dec. 18.
Patterson, Charley T., Springfield, Mo. Feed-mixing device. 1,477,586; Dec. 18.
Patterson, Thomas S., Rosemont, Pa. Power-transmission apparatus. 1,478,294; Dec. 18.
Peelle Company, The. (See Wexler, Benjamin, assignor.)

Peerless Light Company. (See Herskovitz, Max, assignor.)
Penrod, John, and R. D. Thompson, Okmulgee, Okla. Tube support for deep-well pumps. 1,477,714; Dec. 18.
Perkins, Augustus T., Oak Park, assignor to Webster Mfg. Company, Chicago, Ill. Crushing machine. 1,477,587; Dec. 18.
Perkins, Walter G., London, England, assignor, by mesne assignments, to Metals Production Company of North America Incorporated, New York, N. Y. Treatment of complex sulphide ores. 1,478,295; Dec. 18.
Perry, George E., Chicago, Ill. Apparatus for facilitating bacteriological propagation. 1,477,894; Dec. 18.
Perry, William S., assignor to The Wopeco Machine Company, New Haven, Conn. Fruit tool. 1,477,662; Dec. 18.
Perth Amboy Chemical Works. (See White, Lester M., assignor.)
Peters, William E., and A. Foster, Freeman, W. Va. Miner's kit. 1,478,296; Dec. 18.
Peterson, Christen J., Chicago, Ill. Winding apparatus. 1,477,765; Dec. 18.
Peterson, Jonathan, Brooklyn, N. Y., and J. C. Thom, Chicago, Ill., assignors to Combination Machine Company, New York, N. Y. Packaging mechanism. 1,478,056; Dec. 18.
Peterson, Jonathan, Brooklyn, assignor to Combination Machine Company, New York, N. Y. Dispensing pouch or package. 1,478,355; Dec. 18.
Peterson, Jonathan, Brooklyn, assignor to Combination Machine Company, New York, N. Y. Special package or container. 1,478,354; Dec. 18.
Peterson, Theodore P., Wessington Springs, S. Dak. Spark plug. 1,477,715; Dec. 18.
Petitjean, Clifford O., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Transfer mechanism. 1,478,356; Dec. 18.
Pfeil, Frank L. H. (See Steigerwald, E., and Pfeil.)
Pfiager, Harry M., assignor to Cast Steel Pilot Company, St. Louis, Mo. Pilot. 1,478,249; Dec. 18.
Pharo, Harry A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Adjustable trolley-frog device. 1,478,057; Dec. 18.
Philipson and Company Limited. (See Webster, Norman, assignor.)
Phillips, John T., Lafayette, Ala. Flower or lamp stand. Des. 63,582; Dec. 18.
Pickell, William C., Highland Park, Mich. Manufacture of rolled wrapping paper. 1,477,588; Dec. 18.
Pierce, Raymond C. (See Carter, G. O., and Pierce.)
Pineau, Joseph G. (See Wehr, H., and Pineau.)
Pitcole, Frank J., assignor to Whitehead & Kales Company, River Rouge, Mich. Vehicle seat construction. 1,477,589; Dec. 18.
Pitney, Arthur H., assignor, by mesne assignments, to Pitney-Bowes Postage Meter Company, Stamford, Conn. Postage meter and mail-marking machine. Re15,734; Dec. 18.
Pitney-Bowes Postage Meter Company. (See Pitney, Arthur H., assignor.)
Pollard-Alling Manufacturing Company. (See De Minico, Frank, assignor.)
Ponce, Demetrio. (See Trejo M., Rafael, and Ponce.)
Pool, William, Crayford, assignor to Vickers Limited, Westminster, London, England. Pumping device. 1,477,850; Dec. 18.
Pope, Philip H., Portland, Oreg. Model for illustrating cell division. 1,478,058; Dec. 18.
Poppenhusen, Herman A., Hammond, assignor to Green Engineering Company, East Chicago, Ind. Fire arch. 1,477,895; Dec. 18.
Poppenhusen, Herman A., Hammond, Ind., and A. P. Strong, Chicago, Ill., assignors to Green Engineering Company, East Chicago, Ind. Furnace. 1,477,896; Dec. 18.
Porell, Frank A., Sanford, Me. Valve-operating mechanism. 1,477,897; Dec. 18.
Poritz, Frederick M., assignor to Star Chandelier Company Inc., New York N. Y. Body holder for a chandelier. Des. 63,583; Dec. 18.
Poritz, Frederick M., assignor to Star Chandelier Company Inc., New York, N. Y. Candle holder for a chandelier. Des. 63,584; Dec. 18.
Poritz, Frederick M., assignor to Star Chandelier Company, Inc., New York, N. Y. Chandelier. Des. 63,585; Dec. 18.
Poritz, Frederick M., assignor to Star Chandelier Company Inc., New York, N. Y. Chandelier. Des. 63,586; Dec. 18.
Poritz, Frederick M., assignor to Star Chandelier Company Inc., New York, N. Y. Chandelier. Des. 63,587; Dec. 18.
Porter, Albert N., Tulsa, Okla. Target. 1,478,250; Dec. 18.
Poston Brick Company. (See Poston, Emmett V., assignor.)
Poston, Emmett V., assignor to Poston Brick Company, Springfield, Ill. Surfacing clay products. 1,477,663; Dec. 18.
Potter, Gurdon. (See Dunn, A. W., and Potter.)
Powell, A. L., Power Company, The. (See Powell, Alvah L., assignor.)
Powell, Alvah L., Roundup, Mont., assignor to The A. L. Powell Power Company, Incorporated. Engine. 1,478,357; Dec. 18.
Powell, Walter R., New York, N. Y. Kitchen ventilator. 1,477,590; Dec. 18.
Pratt & Whitney Company. (See Blood, Bryant H., assignor.)
Preblinda, Barney, Fall River, assignor of one-half to I. Chernock, Boston, Mass. Metallic heel for shoes. 1,478,143; Dec. 18.
Prescott, Sydney I., New York, N. Y. Internal-combustion engine. 1,477,591; Dec. 18.
Prichard, Robert H., Los Angeles, Calif. Luggage carrier for automobiles. 1,478,251; Dec. 18.
Pulis, Oscar B., assignor to Metal Forms Corporation, Milwaukee, Wis. Tie-member-fastening device. 1,477,766; Dec. 18.
Pulis, Oscar B., assignor to Metal Forms Corporation, Milwaukee, Wis. Road rail. 1,477,767; Dec. 18.
Punga, Franklin, Muhlheim-Ruhr-Speldorf, and H. Roos, Muhlheim-Ruhr, Germany. Bar winding for electric machines. 1,478,252; Dec. 18.
Pushpull Valve Cap Company. (See Parker, Edward H., assignor.)
Putnam, Alexander S., Los Angeles, Calif. Bed rail fastener. 1,477,592; Dec. 18.
Pye, Robert E., New York, N. Y. Antiskid device for pneumatic tires. 1,478,059; Dec. 18.
Quackenbush, Roy R., Grand Rapids, Mich. Can opener. 1,477,716; Dec. 18.
Quenzer, Arthur, Brooklyn, N. Y. Ankle supporter. 1,478,253; Dec. 18.
Ramage, Joseph A. (See Bartholomew, F. K., and Ramage.)
Rankin, Harry D., Coronado, Calif. Process of and apparatus for treating materials. 1,477,664; Dec. 13.
Reardon, Fred A., assignor to Hamel Shoe Machinery Company, Bridgeport, Conn. Wood-heel-nailing machine. 1,477,768; Dec. 18.
Reardon, Fred A., assignor to Hamel Shoe Machinery Company, Bridgeport, Conn. Counter-turning machine. 1,477,769; Dec. 18.
Reed, Lester C., assignor of one-half to F. J. Feldman, New York, N. Y. Shock absorber. 1,477,976; Dec. 18.
Reese, Frank, Minneapolis, Minn., assignor to Watson Manufacturing Company, Jamestown, N. Y. Clamp. 1,478,254; Dec. 18.
Reid, Ernest A., London, England. Method of and apparatus for atomizing and burning fuel oil. 1,478,255; Dec. 18.
Reid, J. M. & J. O. (See Reid, James O., assignor.)
Reid, James O., assignor to J. M. & J. O. Reid, Oshawa, Ontario, Canada. Apparatus for tilting automobiles. 1,478,256; Dec. 18.
Reilly, John B., Whittier, and C. H. Stone, Brea, Calif. Overshot fishing tool. 1,477,593; Dec. 18.
Reilly, John S., and F. R. Lynch, New York, N. Y. Shoeshining device. 1,477,594; Dec. 18.
Reiner, Robert, Weehawken, N. J. Fabric-winding mechanism. 1,477,595; Dec. 18.
Remington & Sherman Company. (See Williams, James H., assignor.)
Rhodes, Frederick L., Short Hills, N. J., assignor to American Telephone and Telegraph Company. Means for supporting aerial cables. 1,477,596; Dec. 18.
Rhodes, Russell I., and P. T. Simmons, North Attleboro, Mass. Hinge construction. 1,477,717; Dec. 18.
Riccioli, Frank, Washington, D. C. Means for attaching heels to shoe bottoms. 1,478,144; Dec. 18.
Rice, Chester W., Schenectady, N. Y., assignor to General Electric Company. Amplifying system. 1,477,898; Dec. 18.
Rice, Chester W., Schenectady, N. Y., assignor to General Electric Company. High-frequency signaling system. 1,477,899; Dec. 18.
Richman, Wallace C., East Cleveland, Ohio. Concrete building. 1,477,665; Dec. 18.
Richman, Walter H., Philadelphia, Pa. Making sheet-metal containers. 1,478,060; Dec. 18.
Riege, Henry C., Kansas City, Mo. Cement-block machine. 1,478,297; Dec. 18.
Ritschard, Victor, Riverton, N. J., assignor to The Keystone Watch Case Company, Philadelphia, Pa. Watchcase. Des. 63,561; Dec. 18.
Ritschard, William, Detroit, Mich. Mop. 1,477,900; Dec. 18.
Robertson, William W., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom temple. 1,477,977; Dec. 18.
Robinson, William G., Batavia, Iowa. Wire-fence clamp. 1,477,901; Dec. 18.
Robinson, William G., Batavia, Iowa. Wire-fence stretcher. 1,477,902; Dec. 18.
Rodgers, Robert S., assignor to The American Seeding Machine Company, Springfield, Ohio. Bearing. 1,477,718; Dec. 18.
Roe, Ernest S., assignor to Markham Air Rifle Company, Plymouth, Mich. Air gun. 1,477,770; Dec. 18.
Rogers, Donald G., and H. T. Stowell, Buffalo, assignors to National Aniline & Chemical Company, Inc., New York, N. Y. Vat dye. 1,478,061; Dec. 18.
Rogers, James P. (See Brady, Archie E., assignor.)
Rogers, Simeon L. and George H., Company. (See James, Sidney V., assignor.)
Roos, Hermann. (See Punga F., and Roos.)
Root, Chapman J., Terre Haute, Ind. Bottle. Des. 63,588; Dec. 18.

Root, Virgil A., Springfield, Mass., assignor to Baush Machine Tool Company. Multiple-spindle drill. 1,477,851; Dec. 18.
Rosenbaum, Harry, New York, N. Y. Dishwashing apparatus. 1,477,903; Dec. 18.
Rosenbluth, Edwin M., Wallingford, Pa. Acetylene-gas generator. 1,477,852; Dec. 18.
Rossendale-Reddaway Belting & Hose Co., The. (See Cobaugh, Harry A., assignor.)
Rouvier, Arturo Elizalde, Barcelona, Spain. Brake for automobiles. 1,478,257; Dec. 18.
Rowland, Clifford B., Trenton, N. J. Planter. 1,477,904; Dec. 18.
Rowntree, Harold, Kenilworth, Ill., assignor to National Pneumatic Company, New York, N. Y. Automatic automobile lock. 1,477,771; Dec. 18.
Ruckert, Harry E., and G. P. Mallory, assignors to Sanitary Products Corporation of America, Philadelphia, Pa. Quantifying mechanism. 1,478,145; Dec. 18.
Ruediger, Henry H., Hermann, Mo. Hand cultivating tool. 1,478,298; Dec. 18.
Russell, Vernon W., J. T. Kyle, Brea, and J. A. Campbell, Long Beach, Calif. Oil burner. 1,478,299; Dec. 18.
Ryburg, Emmett P., Kansas City, Mo., assignor of one-half to A. Lotz, jr., Eudora, Kans. Container cap. 1,477,772; Dec. 18.
Sabroe, Axel, Hadersley, Denmark. Milking machine. 1,477,978; Dec. 18.
Safety Concrete Incinerator Co. (See Feigenbaum, Joseph, assignor.)
Sage, Richard W., Augusta, Kans. Band-wheel-turning device. 1,478,300; Dec. 18.
Sampson, Archibald T., assignor to Sampson Axcess System, Inc., Lynn, Mass. Pipe-cutting machine. 1,478,065; Dec. 18.
Sampson, Archibald T., assignor to Sampson Axcess System, Inc., Lynn, Mass. Lighting and power fixture. 1,478,066; Dec. 18.
Sampson Axcess System, Inc. (See Sampson, Archibald T., assignor.)
Sanders, Roy W. (See Smith, G. B., and Sanders.)
Sanger, Lillian N., Framingham, Mass. Doll. Des. 63,589; Dec. 18.
Sanitary Products Corporation of America. (See Ruckert, H. E., and Mallory, assignors.)
Sanitary Rubber Novelty Co., The. (See Toeppen, Herwig C., assignor.)
Sattler, Walter E., New York, N. Y. Dental casting apparatus. 1,477,853; Dec. 18.
Saunders, William M., Waterbury, Conn., assignor to The Hoge Manufacturing Company, New York, N. Y. Propel pencil. 1,477,905; Dec. 18.
Saunders, William M., Waterbury, Conn., assignor to The Hoge Manufacturing Company, New York, N. Y. Propel pencil. 1,477,906; Dec. 18.
Schaffer, Max Company. (See Ohm, Albert J. D., assignor.)
Schaller, William F., San Francisco, Calif. Heating unit for ovens. 1,478,363; Dec. 18.
Schench, William A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Degasifying agent. 1,478,062; Dec. 18.
Schiesari, Mario, New York, N. Y. Variable propeller. 1,478,063; Dec. 18.
Schlaich, Herman, New York, N. Y. Calibration of instruments. 1,477,666; Dec. 18.
Schlaich, Herman, Long Island City, N. Y. Thermometer and similar instrument. 1,478,258; Dec. 18.
Schleicher, Adolf B., Los Angeles, Calif. Pneumatic tire. Des. 63,590; Dec. 18.
Schluesselburg, George, assignor to A. Meyer, trustee, Chicago, Ill. Cooking utensil. 1,477,667; Dec. 18.
Schmitz, Antoine L. (See Morel, Louis, assignor.)
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus in and relating to trail-carriage guns mounted on endless tracks for varying the height of the line of fire of the gun. 1,477,979; Dec. 18.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Central-pivot gun carriage. 1,477,980; Dec. 18.
Schneider, George H., Rockaway Beach, N. Y. Universal clasp. 1,477,597; Dec. 18.
Schneider, Peter F., Detroit, Mich. Agitator for washing machines. 1,478,182; Dec. 18.
Scholler, Louis, San Francisco, Calif. Necktie holder. 1,478,064; Dec. 18.
Schou, Theodor, and R. L. Behrens, assignors to The Ideal Electric & Manufacturing Co., Mansfield, Ohio. Dynamo-electric stator. 1,477,773; Dec. 18.
Schram, Joe, Lawton, Okla. Aeroplane. 1,478,183; Dec. 18.
Schröter, Fritz, Berlin, Germany. Amplifier for electromagnets. 1,477,668; Dec. 18.
Schuck, Harold P. (See Daniels, E. S., and Schuck.)
Scott Paper Company. (See Parsons, Philip D., assignor.)
Scott-Ullman Company, The. (See Ullman, Albert, assignor.)
Sears, Willard T., Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Safety device for radial drills. 1,477,598; Dec. 18.
Sears, Willard T., Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Safety device for radial drills. 1,477,599; Dec. 18.
Sechler, Anna, Chicago, Ill. Cooking utensil. 1,477,981; Dec. 18.
Security Metal Products Company, The. (See Orr, Mark P., assignor.)
Seeger, Edwin W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor controller. 1,477,774; Dec. 18.
Seidler, Alexander, Chicago, Ill., assignor, by mesne assignments to F. C. Austin Machinery Company. Internal-combustion boiler. 1,478,067; Dec. 18.
Seiffert, George, assignor to Electone Company, Inc., New York, N. Y. Phonograph. 1,477,775; Dec. 18.
Sellors, Evaline C., St. Louis, Mo. Toy dog. Des. 63,591; Dec. 18.
Selvig, John N., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for drilling and cutting. 1,478,068; Dec. 18.
Semet-Solvay Company. (See Chrisman, Russell K., assignor.)
Seppmann, Alfred B., Lake Crystal, Minn. Lens-rim removing and replacing device. 1,477,719; Dec. 18.
Seymour, Benjamin F., Washington, D. C. Resilient bearing. 1,477,907; Dec. 18.
Seymour, Benjamin F., Washington, D. C. Resilient transmission and bearing. 1,477,908; Dec. 18.
Seymour, Benjamin F., Washington, D. C. Resilient transmission and bearing. 1,477,909; Dec. 18.
Seymour, Benjamin F., Washington, D. C. Resilient transmission and bearing. 1,477,910; Dec. 18.
Seymour, Benjamin F., Indianapolis, Ind. Resilient transmission and bearing. 1,477,911; Dec. 18.
Seymour, Benjamin F., Washington, D. C. Resilient transmission and bearing. 1,477,912; Dec. 18.
Seymour, Benjamin F., Indianapolis, Ind. Combined resilient bearing and drive. 1,477,913; Dec. 18.
Seymour, Benjamin F., Washington, D. C. Vehicle body suspension. 1,477,914; Dec. 18.
Seymour, Benjamin F., Indianapolis, Ind. Wheel. 1,477,915; Dec. 18.
Sharp, Fred, and J. Martin, Barrow-in-Furness, England. Trolley head for electric tramcars. 1,477,720; Dec. 18.
Sharpless, Evan B. (See Eastburn, Oliver W., jr., assignor.)
Sharpnack, Lord B., Detroit, Mich. Rotary ventilator. 1,477,669; Dec. 18.
Shea, William C., San Anselmo, Calif. Bucket for steam shovels or the like. 1,478,301; Dec. 18.
Shedenhelm, Robert, Grinnell, Iowa. Conveyer device. 1,477,776; Dec. 18.
Shee, Parke E., assignor of one-half to E. I. Noble, Lancaster, Pa. Stropping holder for safety-razor blades. 1,477,721; Dec. 18.
Shek, Frank P., Brooklyn, N. Y. Lock. 1,477,777; Dec. 18.
Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. 1,477,600; Dec. 18.
Shipley, Grant B., and J. B. Shipley, Pittsburgh, Pa. Automatic charging and discharging apparatus for wood-treating plants. 1,478,259; Dec. 18.
Shipley, Jack B. (See Shipley, Grant B. and J. B.)
Shively, Walter E. (See Kilborn, K. B., and Shively.)
Shriver, Ray R., Rinard, Iowa. Electrical heater. 1,477,982; Dec. 18.
Sibley, James T., New York, N. Y. Pocketknife, etc. 1,478,260; Dec. 18.
Sibley, Robert L. (See Bedford, C. W., and Sibley.)
Sickman, Davy V., Denver, Colo. Hydraulic expansion bar. 1,477,601; Dec. 18.
Siemens & Halske Aktiengesellschaft. (See Mansel, Paul, assignor.)
Sikes, James M., and C. Elmore, Durham, N. C., said Elmore assignor to said Sikes. Supply valve for flush tanks. 1,477,916; Dec. 18.
Simmons, Parker T. (See Rhodes, R. I., and Simmons.)
Simon, Maurice, St. Louis, Mo. Electrical heating unit. 1,477,602; Dec. 18.
Simplex Metal Spinning & Stamping Co. (See Altamura, Pasquale, assignor.)
Simpson, James E., Brooklyn, N. Y. Nontwisting device for telephone and other cords. 1,478,069; Dec. 18.
Slattery, Donald W., East Cleveland, assignor to The Welliman-Seaver-Morgan Company, Cleveland, Ohio. Valve. 1,477,722; Dec. 18.
Sloan, Theodore H., Charleroi, assignor to Macbeth-Evans Glass Company, Pittsburgh, Pa. Glassworking machine. 1,478,261; Dec. 18.
Slusher, Clinton L. (See Duddleson, W. J., and Slusher.)
Smith, Alfred H., New York, N. Y. Interchangeable car unit. 1,477,723; Dec. 18.
Smith, Frank M., Bend, Oreg. Circuit controller. 1,477,917; Dec. 18.
Smith, George B., and R. W. Sanders, Houston, Tex. Clutch for pipe-laying machines. 1,477,670; Dec. 18.
Smith, Maurice O., St. Louis, Mo. Vaporizer. 1,477,724; Dec. 18.
Smith, Reuben S., Milwaukee, Wis., assignor, by mesne assignments, to First Wisconsin Trust Company. Process and apparatus for making flanged bars. 1,477,778; Dec. 18.

Smith, Reuben S., Milwaukee, Wis., assignor, by mesne assignments, to First Wisconsin Trust Company. Process and apparatus for making flanged crossbars for automobile frames. 1,477,779; Dec. 18.
Smith, Roscoe L., et al. (See Byrne, John F., assignor.)
Smith, Thomas, St. Louis, Mo. Oiler. 1,477,725; Dec. 18.
Snodgrass, Harlan E., Summit, and T. M. Hunter, assignors, by mesne assignments, to Newark Tube Company, Newark, N. J. Transformer and application of the same to heating. 1,478,262; Dec. 18.
Snodgrass, Harlan E., Summit, and T. M. Hunter, assignors, by mesne assignments, to Newark Tube Company, Newark, N. J. Method of and apparatus for electric welding. 1,478,302; Dec. 18.
Snow, Barton S., Batavia, assignor to T. W. Snow Construction Co., Chicago, Ill. Smokejack. 1,478,263; Dec. 18.
Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. 1,478,264; Dec. 18.
Snow, T. W., Construction Co. (See Snow, Barton S., assignor.)
Snyder, Herbert W. (See Townsend, A. J., and Snyder.)
Snyder, Stephen H., West Pittston, Pa. Mine air stop. 1,478,303; Dec. 18.
Sommer, William H., Peoria, assignor to Keystone Steel & Wire Company, Bartonville, Ill. Farm and poultry fence. 1,477,603; Dec. 18.
Souders, Herbert V., Wilmington, and J. M. Frost, Long Beach, Calif. Foot accelerator for automobile engines. 1,477,604; Dec. 18.
Soulier, Joseph. (See Mayotte, John, assignor.)
Southard Robertson Company. (See McGowan, Hugh J., assignor.)
Spencer, William H., assignor to I. P. Frink, Inc., New York, N. Y. Lighting fixture. Des. 63,592; Dec. 18.
Spilman, Anna, New York, N. Y. Abdominal band. 1,477,918; Dec. 18.
Spinney, Burton A., Des Moines, Iowa. Sweep rake for tractors. 1,477,919; Dec. 18.
Splitdorf Electrical Company. (See Nowosielski, Edward B., assignor.)
Splitdorf Electrical Company. (See Sullivan, Maurice P., assignor.)
Stall & Dean Manufacturing Company. (See Stall, Walter T., assignor.)
Stall, Walter T., assignor to Stall & Dean Manufacturing Company, Brockton, Mass. Thigh guard. 1,478,184; Dec. 18.
Standard Development Company. (See Clark, E. M., Loomis, and Carringer, assignors.)
Standerwick, Reginald G., Lynn, Mass., assignor to General Electric Company. Regulator for electric generators. 1,477,781; Dec. 18.
Standerwick, Reginald G. (See Steinmetz, C. P., and Standerwick.)
Staples, Charles F., Detroit, Mich. Washing machine. 1,477,780; Dec. 18.
Star Chandelier Company. (See Poritz, Frederick M., assignor.)
Star Suspender and Garter Co. (See Weinstein, Morris, assignor.)
Starmer, Mary, Newport News, Va. Belt buckle. 1,477,726; Dec. 18.
Staudenmayer, Charles F., Baltimore, Md. Artificial fuel and making the same. 1,477,671; Dec. 18.
Stegmann, Otto, Will County, Ill. Lubricator cup. 1,477,672; Dec. 18.
Steigerwald, Edward, and F. L. H. Pfeil, Philadelphia, Pa. Spring clip. 1,477,605; Dec. 18.
Steinmetz, Charles P., Schenectady, N. Y., and R. G. Standerwick, Lynn, Mass., assignors to General Electric Company. Regulator for electric generators. 1,477,782; Dec. 18.
Stenberg, Ervin C., Denver, Colo. Steering wheel. 1,477,727; Dec. 18.
Stephenson, Wilfred H., San Antonio, Tex. Gauge and filler spout for gasoline tanks. 1,477,728; Dec. 18.
Stevens-Aylsworth Company. (See Given, Arthur, assignor.)
Stevens, Harry R., Baltimore, Md. Sanitary bottle closure. 1,478,146; Dec. 18.
Stewart, Harry B., assignor of one-third to W. H. Davison, Lynn Creek, British Columbia, Canada. Photographic-printing press. 1,477,920; Dec. 18.
Stewart, Richard C., Covington, Ky. Luggage carrier. 1,478,304; Dec. 18.
Stewart-Warner Speedometer Corporation. (See Whittington, Frederik G., assignor.)
Stewart-Warner Speedometer Corporation. (See Wood, Andrew C., assignor.)
Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Warp stop mechanism for looms. 1,478,265; Dec. 18.
Stimpson, Walter F., Louisville, Ky. Scale frame. Des. 63,593; Dec. 18.
Stoerzer, Berta. (See Mayer, Fritz, assignor.)
Stokes, James G., Burgaw, N. C. Traction device. 1,477,983; Dec. 18.
Stolley, William A. (See Heddon, C., and Stolley.)
Stone, Charles H. (See Reilly, J. B., and Stone.)
Storey, Jacob, Berlin, N. H. Ash sifter. 1,478,266; Dec. 18.
Stover, Harmon E. (See Sykes, J. P., and Stover.)
Stowell, Harold T. (See Rogers, D. G., and Stowell.)
Straiton, David, assignor to The Miller Rubber Company, Akron, Ohio. Doll. Des. 63,594; Dec. 18.
Straubel, Frederick L. G., Green Bay, Wis. Filing tray. 1,477,783; Dec. 18.
Strobach, Fred, Austin, Minn. Noxious-weed eradicator and soil pulverizer. 1,478,305; Dec. 18.
Strong, Arthur P. (See Poppenhusen, H. A., and Strong.)
Stuber, Adolph, Rochester, N. Y. Registering mechanism. 1,478,010; Dec. 18.
Suber, Larkin, and E. Mercer, East Youngstown, Ohio. Collecting main for coke ovens. 1,477,673; Dec. 18.
Sullivan, Maurice P., assignor to Splitdorf Electrical Company, Newark, N. J. Spark plug. 1,477,784; Dec. 18.
Sundh, August, Hastings-on-Hudson, N. Y. Flexible tubing. 1,478,185; Dec. 18.
Sure-Cut Sharpener Co. (See Graser, Thomas T., assignor.)
Sus Strong, Carl A., Chicago, Ill. Undergarment. 1,478,147; Dec. 18.
Sutcliffe, Arthur G., assignor to Ilg Electric Ventilating Company, Chicago, Ill. Brush rigging for electric motors and generators. 1,477,606; Dec. 18.
Suter, John H., Los Angeles, Calif. Method of and means for fuel injection for internal-combustion motors. 1,477,984; Dec. 18.
Swan, Willis A., Port Huron, Mich. Evaporating apparatus. 1,478,186; Dec. 18.
Swann, Vivian M., Brooklyn, N. Y. Carpenter's hatchet. 1,478,187; Dec. 18.
Sweeney, Hugh C., Minneapolis, Minn. Coupling guard. 1,477,607; Dec. 18.
Sweet, Alvin H., assignor to Title Guarantee and Trust Company, trustee, Los Angeles, Calif. Brake band. 1,478,070. Dec. 18.
Sweetman, Michael M., Kansas City, Mo. Underreamer. 1,478,306; Dec. 18.
Sykes, John P., Wallingford, and H. E. Stover, assignors to The Baldwin Locomotive Works, Philadelphia, Pa. Jack structure. 1,478,307; Dec. 18.
Sykes, Koscoe D., Norfolk, Va. Lumber drier. 1,477,985; Dec. 18.
Szukalski, Marian F., jr., Milwaukee, Wis. Flexible dial mounting. 1,477,785; Dec. 18.
Taunton, Richard A. (See Heseltine, Joseph R. E., assignor.)
Tauscher, Arno, Brooklyn, N. Y. Washing machine. 1,477,854; Dec. 18.
Taylor, Alexander, Flushing, N. Y. Inductance unit. 1,477,608; Dec. 18.
Taylor, Herbert E., Coventry, England. Generation of gear teeth. 1,478,188; Dec. 18.
Teagle Company, The. (See Tower, Charles H., assignor.)
Texas Company, The. (See Adams, Joseph H., assignor.)
Texas Company, The. (See Gallsworthy, Benjamin, assignor.)
Texas Company, The. (See Van Gundy, Morris C., assignor.)
Texas Reclaim Oil Association. (See Bashara, S. F., and Paggi, assignors.)
Thoens, Burchard, New York, N. Y., assignor of one-half to E. J. Métérie, East Orange, N. J. Filtering apparatus. 1,477,986; Dec. 18.
Thom, James C. (See Peterson, J., and Thom.)
Thoma, Anton J., Cincinnati, Ohio, and A. Eklund, Attleboro, Mass., assignors to General Chain Company, Providence, R. I. Identification-tag chain. 1,477,729; Dec. 18.
Thomas, Felix. (See Wollner, E., and Thomas.)
Thomas, Owen, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Barrel chime. 1,478,360; Dec. 18.
Thomas, William, jr., Los Angeles, Calif. Automobile signal. Des. 63,595; Dec. 18.
Thompson, George K., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Telephone-receiver attachment. 1,477,609; Dec. 18.
Thompson, Harry J., assignor to National Fibreform Company, San Francisco, Calif. Fruit carrier. 1,477,921; Dec. 18.
Thompson, Robert D. (See Penrod, J., and Thompson.)
Thompson, William M., Meadville, Pa. Pump. 1,478,267; Dec. 18.
Thomson, Alfred J., Canton, Mass. Clamp. 1,478,268; Dec. 18.
Thomson, David P. (See Hildebrand, L. E., and Thomson.)
Thurston, Fred W., San Francisco, Calif. Drill. 1,477,855; Dec. 18.
Tiffany, William J., Brockton, Mass. Method of and tool for replacing broken hammer-butt springs. 1,477,610; Dec. 18.
Tillier, Vincent C., Flint, Mich. Piston-ring-expanding tool. 1,477,786; Dec. 18.
Timm, Otto W., Venice, Calif. Rudder bar. 1,478,308; Dec. 18.
Tin Decorating Company of Baltimore, The. (See Connor, Martha H., assignor.)
Title Guarantee and Trust Company, trustee. (See Sweet, Alvin H., assignor.)
Todd, Benjamin W., Sherman, Calif. Armature-banding machine. 1,477,787; Dec. 18.

Todd, Percy, Gadsden, Ala. Reserve-supply drain and cut-off valve for liquid-fuel tanks. 1,478,189; Dec. 18.
Toeppen, Herwig C., Wilmette, assignor to The Sanitary Rubber Novelty Co., Chicago, Ill. Waterproof overgarment. 1,477,856; Dec. 18.
Tokheim Oil Tank and Pump Company. (See Eilers, Frank, assignor.)
Toledo Scale Company. (See Hurt, Samuel N., assignor.)
Toledo Scale Company. (See Neils, Albert, assignors.)
Toniutti, Frank E., Forest Park, Ill. Rain and storm coat. 1,477,788; Dec. 18.
Tonofone Company, The. (See Wade, Robert C., assignor.)
Tower, Charles H., assignor to The Teagle Company, Cleveland, Ohio. Magneto ignition system. 1,477,789; Dec. 18.
Townsend, Albert J., and H. W. Snyder, Lima, Ohio. Locomotive draft appliance. 1,477,730; Dec. 18.
Townsend, John S., assignor to Whiting Corporation, Harvey, Ill. Portable jack. 1,477,790; Dec. 18.
Traver, Ernest A., Thornton, Calif. Shock absorber. 1,477,791; Dec. 18.
Travis, John R. D., Clio, Iowa. Grain-handling apparatus. 1,478,269; Dec. 18.
Trejo M., Rafael, and D. Ponce, San Antonio, Tex. Headlight dimmer. 1,478,148; Dec. 18.
Trimble, Russell F., Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Jig employed in the construction of electrodes. 1,478,071; Dec. 18.
Trivisonno, Joseph L., et al. (See Marrazzo, Domenico, assignor.)
Trowbridge, Augustus, and W. C. Duryea, Princeton, N. J. Camera. 1,477,674; Dec. 18.
Trumbull Electric Manufacturing Company, The. (See Getchell, Benjamin E., assignor.)
Trumbull Steel Company, The. (See Wille, Fredrik, assignor.)
Trunko, John, Arden, W. Va. Aeroplane. 1,478,270; Dec. 18.
Tunnel & Sewer Machine Engineering Company, The. (See Anderson, Louis W., assignor.)
Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Electrical system. 1,478,011; Dec. 18.
Tweedie, Charles, Jefferson City, Mo. Boot top. Des. 63,596; Dec. 18.
Tweedie, Charles, Jefferson City, Mo. Legging. Des. 63,597; Dec. 18.
U. S. Light & Heat Corporation. (See Turbayne, William A., assignor.)
Ullman, Albert, assignor to The Scott-Ullman Company, Cleveland, Ohio. Chandelier. Des. 63,598; Dec. 18.
Ulrich, Sebastien, Akron, Ohio. Locking attachment for doors. 1,477,731; Dec. 18.
Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)
Union Special Machine Company. (See Chalman, John E., assignor.)
Union Tool Company. (See Foster, Clarence B., assignor.)
United Shoe Machinery Corporation. (See Bunker, Darius W., assignor.)
United Shoe Machinery Corporation. (See Fowler, Alfred B., assignor.)
United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)
United Shoe Machinery Corporation. (See Webb, Horace D., assignor.)
United States Cast Iron Pipe & Foundry Company. (See Haynes, William L., assignor.)
United Steel and Wire Co. (See Fuller, Birney H., assignor.)
Valiton, Frederick H., assignor of one-half to P. L. O'Neill, Deer Lodge, Mont. Miss detector for internal-combustion engines. 1,477,732; Dec. 18.
Valley Electric Company. (See Ballman, Edwin C., assignor.)
Van Barneveld, Charles E., et al. (See Leaver, Edmund S., assignor.)
Van Bergh Silver Plate Co., The. (See Leavenworth, Seth H., assignor.)
Van der Bijl, Hendrik J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum tube. 1,478,072; Dec. 18.
Van Guelpen, Louis J., Cincinnati, Ohio. Seam-pressing machine. 1,478,149; Dec. 18.
Van Guelpen, Louis J., Cincinnati, Ohio. Perforating machine. 1,478,150; Dec. 18.
Van Guelpen, Louis J., Cincinnati, Ohio. Shoe-relasting machine. 1,478,151; Dec. 18.
Van Guelpen, Louis J., Cincinnati, Ohio. Machine for finishing the edges of flexible materials. 1,478,190; Dec. 18.
Van Gundy, Morris C., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Lubricating compound. 1,477,611; Dec. 18.
Van Inwagen, Frank, assignor of three-fourths to G. L. Harris, Chicago, Ill. Fluid-removing device. 1,477,733; Dec. 18.
Van Kuren, Stephen J., assignor to J. G. Cherry Company, Cedar Rapids, Iowa. Ice-cream freezer. 1,478,073; Dec. 18.
Van Rutten, Leon, Antwerp, Belgium, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-transmitter mouthpiece. 1,478,074; Dec. 18.
Varley, Thomas W., New York, N. Y. Alternating-current dynamo-electric machine. 1,478,012; Dec. 18.
Velnot, Percival C., West Manchester, Mass. Rake. 1,477,612; Dec. 18.
Venn, Charles J., Chicago, assignor to Century Rubber Works, Cicero, Ill. Tire tread. Des. 63,599; Dec. 18.
Vickers Limited. (See Pool, William, assignor.)
Victor, Arthur, Minneapolis, Minn. Toy. 1,478,191; Dec. 18.
Vierow, Thomas S., Jersey City, N. J. Depositing machine. 1,477,857; Dec. 18.
Vincent, Laurence A., Pleasantville, Pa., assignor to American Dressler Tunnel Kilns, Inc., Cleveland, Ohio. Continuous tunnel kiln. 1,477,675; Dec. 18.
Vittlea Development Corporation. (See Dieter, William, assignor.)
Voegtle, Charles J., West Hoboken, N. J. Carburetor. 1,478,152; Dec. 18.
Voigt Company. (See Meixner, William J., assignor.)
Von Arx, Adolf, Niederuzwil, Switzerland. Chain lock. 1,477,858; Dec. 18.
Wade, Robert C., Chicago, Ill., assignor to The Tonofone Company. Phonographic stylus. 1,478,192; Dec. 18.
Wagner, Robert E., Pittsfield, Mass., assignor to General Electric Company. Casing for electrical apparatus. 1,477,792; Dec. 18.
Waite, Frank H., Long Island City, N. Y. Baffle brick. 1,478,309; Dec. 18.
Waite, Henry J., Peckham, England. Lamp-shade carrier. 1,477,734; Dec. 18.
Waite Land and Livestock Company et al. (See Grooves, Earl C., assignor.)
Wappat, Fred W. (See Hibbard, R. L., and Wappat.)
Ward, Neven E., Northome, Minn. Log-barking machine. 1,478,193; Dec. 18.
Ware, Henry E., assignor of one-half to A. R. McGrew, Moorcroft, Wyo. Gate-opening mechanism. 1,477,987; Dec. 18.
Waterbury Farrel Foundry and Machine Company, The. (See Petitjean, Clifford O., assignor.)
Waterbury Farrel Foundry and Machine Company, The. (See Wilcox, Richard L., assignor.)
Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Potato digger. 1,477,676; Dec. 18.
Waterproofing, Incorporated. (See Endrea, Edward S. A., assignor.)
Waters, Charles P., et al. (See Welton, William A., assignor.)
Watrous, Charles A., Des Moines, Iowa. Liquid-fuel burner for heaters. 1,477,793; Dec. 18.
Watson, David M., McKinley, Pa. Lid support. 1,477,613; Dec. 18.
Watson Manufacturing Company. (See Reese, Frank, assignor.)
Webb, Horace D., Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. 1,477,859; Dec. 18.
Weber, Jacob H., New York, N. Y. Amplifying device. 1,477,614; Dec. 18.
Webster Mfg. Company. (See Perkins, Augustus T., assignor.)
Webster, Norman, Moortown, Leeds, assignor to Philipson and Company Limited, Bolton, Lancaster, England. Variable gear. 1,478,075; Dec. 18.
Wehr, Henry, Morris Park, and J. G. Pineau, Woodhaven, N. Y. Air-mixing device. 1,477,988; Dec. 18.
Weinbach, Mendel P., Columbia, Mo. Electric-fuse igniter. 1,477,735; Dec. 18.
Weinhart, Howard W., Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,478,076; Dec. 18.
Weinstein, Maurice N., East Cleveland, Ohio. Cleaner and gauge for winding machines. 1,478,153; Dec. 18.
Weinstein, Morris, assignor to Star Suspender and Garter Co., New York, N. Y. Man's garter. 1,478,077; Dec. 18.
Weir, Nelson J., Seattle, Wash. Spotlight bracket. 1,478,154; Dec. 18.
Weiss, Adele, Pasadena, Calif. Heat indicator for electric irons. 1,478,271; Dec. 18.
Wellman-Seaver-Morgan Company, The. (See Slattery, Donald W., assignor.)
Wells, Earl W., South Brownsville, Pa. Electric iron and stand. 1,478,310; Dec. 18.
Welsh, John T., Schenectady, N. Y. Trolley. 1,478,311; Dec. 18.
Welton, William A., assignor of one-third to F. E. Farley and one-third to C. P. Waters, Little Rock, Ark. Signal lantern. 1,477,923; Dec. 18.
Wemhoener, William F., St. Louis, Mo. Letter chute. 1,477,615; Dec. 18.
Wendling, George X., San Francisco, Calif. Separable compartment container. 1,478,194; Dec. 18.
Wenger, Aaron, Bayonne, N. J. Ventilator. 1,478,312; Dec. 18.
Wennerby, Arthur O. L., Halmstad, Sweden. Two or multi cylinder combustion engine. 1,477,736; Dec. 18.
Wente, Edward C., Port Washington, assignor to Western Electric Company, Incorporated, New York, N. Y. Equalizing network. 1,478,078; Dec. 18.
Werner, Frank, Grand Rapids, Mich. Cooky. Des. 63,600; Dec. 18.

Wescoat, Lewis C., Corona, assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical distribution system. 1,478,079; Dec. 18.
West Virginia Rail Co., The. (See Diehl, Herman H., assignor.)
Western Electric Company. (See Bellamy, Harry T., assignor.)
Western Electric Company. (See Carpenter, W. W., and Hovland, assignors.)
Western Electric Company. (See Clausen, Henry P., assignor.)
Western Electric Company. (See Field, Joseph C., assignor.)
Western Electric Company. (See Harlow, John B., assignor.)
Western Electric Company. (See Harrison, William H., assignor.)
Western Electric Company. (See Keckler, Charles W., assignor.)
Western Electric Company. (See Martin, Harold T., assignor.)
Western Electric Company. (See Mead, Edward D., assignor.)
Western Electric Company. (See Mills, John, assignor.)
Western Electric Company. (See Nelson, Edward L., assignor.)
Western Electric Company. (See Nichols, Harold W., assignor.)
Western Electric Company. (See Scheuch, William A., assignor.)
Western Electric Company. (See Selvig, John N., assignor.)
Western Electric Company. (See Trimble, Russell F., assignor.)
Western Electric Company. (See Van der Bijl, Hendrik J., assignor.)
Western Electric Company. (See Van Rutten, Leon, assignor.)
Western Electric Company. (See Weinhart, Howard W., assignor.)
Western Electric Company. (See Wente, Edward C., assignor.)
Western Electric Company. (See Wescoat, Lewis C., assignor.)
Western Electric Company. (See Williams, Samuel B., jr., assignor.)
Western Electric Company. (See Wilson, William, assignor.)
Western Wheeled Scraper Company. (See Benbow, James D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Pharo, Harry A., assignor.)
Westinghouse Lamp Company. (See Jones, Roy G., assignor.)
Westman, Emil F., Tonka Bay, Minn. Piston-ring tool. 1,477,677; Dec. 18.
Wetmore, Miner P., Newark, N. J., assignor to Hygrade Engineering Co., Inc. Welded joint. 1,477,618; Dec. 18.
Wetmore, Miner P., Newark, N. J. Machine for stripping insulation from electric wires. 1,477,678; Dec. 18.
Wexler, Benjamin, assignor to The Peelle Company, Brooklyn, N. Y. Locking mechanism for elevator doors. 1,477,737; Dec. 18.
Wheeler, Charles F., assignor to B. M. Kuhn, Bloomington, Ill. Oil burner. 1,477,794; Dec. 18.
Wheeler, John L., assignor to The Measuregraph Company, St. Louis, Mo. Fabric measuring and cost computing machine. 1,478,155; Dec. 18.
Whitcomb, Bryan J., St. Louis, Mo. Solid-tread pneumatic tire. 1,478,156; Dec. 18.
White, Henry P., Benzonia, Mich. Ladder scaffold bracket. 1,477,738; Dec. 18.
White, John, Houston, Tex. Rail joint and splice. 1,478,081; Dec. 18.
White, Lester M., Perth Amboy, N. J., assignor to Perth Amboy Chemical Works, New York, N. Y. Shipping container for liquids and making same. 1,477,795; Dec. 18.
White, Wilfrid O., Waban, Mass. Compass-deviation corrector. 1,478,080; Dec. 18.
Whitehead & Kales Company. (See Pitcole, Frank J., assignor.)
Whiting Corporation. (See Gregg, Alfred W., assignor.)
Whiting Corporation. (See Townsend, John S., assignor.)
Whitlock, Cleveland, Brooklyn, N. Y. Warping process. 1,478,082; Dec. 18.
Whitmarsh, Robert B., Los Angeles, Calif., assignor to The B. F. Goodrich Company, New York, N. Y. Wire-wound hose. 1,478,083; Dec. 18.
Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Thermostatic signal-operating device. 1,478,084; Dec. 18.
Wiford, Elza E., Sidney, Ohio. Automatic stop for phonographs. 1,477,739; Dec. 18.
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Shaving machine. 1,478,313; Dec. 18.
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Trimming mechanism. 1,478,314; Dec. 18.
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Header mechanism. 1,478,315; Dec. 18.
Wille, Fredrik, assignor to The Trumbull Steel Company, Warren, Ohio. Rolling mill. 1,477,616; Dec. 18.
Williams, Edward M., Elyria, Ohio. Piston ring. 1,477,617; Dec. 18.
Williams, James H., assignor to Remington & Sherman Company, Philadelphia, Pa. Valut-closure structure. 1,478,085; Dec. 18.
Williams, Samuel B., jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,478,086; Dec. 18.
Wilson, William, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum tube. 1,478,087; Dec. 18.
Winchester Repeating Arms Company. (See Paine, Arthur P., assignor.)
Winkelmann, Herbert A., and H. Gray, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Vulcanizing rubber. 1,478,088; Dec. 18.
Winkley, Erastus E., Lynn, Mass. Automatic steering apparatus. 1,478,195; Dec. 18.
Wintersteen, Edward D., Schenectady, N. Y. Fountain pen. 1,478,157; Dec. 18.
Wiprud, Sven T. (See Cooney, E. H., Eklund, and Wiprud.)
Wissinger, Walter. (See Conklin, W., and Wissinger.)
Witte, Meinhard, Minneapolis, Minn. Upper hose connection for radiators. 1,477,924; Dec. 18.
Wolff, Jesse, Spokane, Wash. Testing eyes. 1,478,089; Dec. 18.
Wollner, Emil, Schwanheim-on-the-Main, and F. Thomas, assignors to the Firm: Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Treating magnesium and alloys comprising the same. 1,477,922; Dec. 18.
Wood, Andrew C., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Electric signal for internal-combustion engines. 1,478,090; Dec. 18.
Wood, Benjamin G., London, England. Side-car body. 1,478,316; Dec. 18.
Wood, Charles R., Fargo, N. Dak. Overalls. 1,477,925; Dec. 18.
Wood, Henry A. W., assignor to The Wood Newspaper Machinery Corporation, New York, N. Y. Tubular stereotype printing plate. 1,477,619; Dec. 18.
Wood, Henry A. W., assignor to The Wood Newspaper Machinery Corporation, New York, N. Y. Steretoype printing plate. 1,477,620; Dec. 18.
Wood Newspaper Machinery Corporation, The. (See Wood, Henry A. W., assignor.)
Wood, Walter H., Forest, Idaho. Gauge. 1,478,317; Dec. 18.
Woods, George H., Somerville, Mass. Collar. 1,478,091; Dec. 18.
Woodworth, Chauncey C. (See Woodworth, Edward M., assignor.)
Woodworth, Edward M., Rochester, assignor of one-fourth to C. C. Woodworth, New York, N. Y. Indicator for cameras. 1,478,318; Dec. 18.
Woolley, Edward, Toronto, Ontario, Canada. Dredging bucket. 1,477,679; Dec. 18.
Woolley, Orson A., Magrath, Alberta, Canada. Wire-gripping device. 1,477,740; Dec. 18.
Wopeco Machine Company, The. (See Perry, William S., assignor.)
Wotier, Charles J., Springfield, Tenn. Valve for powder distributors. 1,477,741; Dec. 18.
Wright, Thomas B., Cincinnati, Ohio, assignor of one-half to C. C. Diboll, New Orleans, La. Receptacle and holding and locking means therefor. 1,478,365; Dec. 18.
Wright, Thomas W., Anderson, Ind. Handle. 1,477,742; Dec. 18.
Wulf, Charles A., Indianapolis, Ind. Vaporizer for hydrocarbon engines. 1,478,092; Dec. 18.
Wulff, John P., Chicago, Ill. Safety valve for water gauges. 1,477,743; Dec. 18.
Yaghubian, Hagop J., New York, N. Y. Reversible coat. 1,477,744; Dec. 18.
Yates, P. B., Machine Company, The. (See Henderson, Edward J., assignor.)
Young, Ernest, New York, N. Y. Electric soldering iron. 1,478,319; Dec. 18.
Zetlin, Benjamin, assignor to A & Z Chain Company, Providence, R. I. Belt clasp. 1,477,680; Dec. 18.
Zifferer, Lothar R., Lancaster, Pa. Pipe hanger. 1,477,621; Dec. 18.
Zimmerman, Albert L., Valparaiso, Ind. Engine-testing pump. 1,477,796; Dec. 18.
Zumft, Oscar, Kinderhook, N. Y. Gas lighter. 1,478,158; Dec. 18.
Zweiman, James M., Brooklyn, N. Y. Ticket printing and distributing machine. 1,478,159; Dec. 18.
Zwisler, Arthur L., Kalamazoo, Mich. Heating stove and radiator therefor. 1,477,681; Dec. 18.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 18TH DAY OF DECEMBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abdominal band. A. Spilman. 1,477,918; Dec. 18.
Abrading or polishing machine. C. L. Mattison. 1,478,044; Dec. 18.
Acid and ferric sulphate, Making solutions containing sulphuric. E. S. Leaver. 1,477,965; Dec. 18.
Adjustable gauge. J. Bath. 1,477,531; Dec. 18.
Aerial advertising device. A. Hortz. 1,478,034; Dec. 18.
Aeroplane. H. G. Farmer. 1,478,211; Dec. 18.
Aeroplane. T. Lonuzzo. 1,478,284; Dec. 18.
Aeroplane. J. Schram. 1,478,183; Dec. 18.
Aeroplane. J. Trunko. 1,478,270; Dec. 18.
Air condenser, Electrical. R. C. Lewis. 1,478,342; Dec. 18.
Air-mixing device. H. Wehr and J. G. Pineau. 1,477,988; Dec. 18.
Alarm mechanism. J. M. Butcher. 1,478,169; Dec. 18.
Almond huller. L. L. Miller. 1,477,761; Dec. 18.
Ambulances, Cot-retaining device for. D. Denning. 1,477,815; Dec. 18.
Amplifying device. J. H. Weber. 1,477,614; Dec. 18.
Amplifying system. C. W. Rice. 1,477,898; Dec. 18.
Ankle supporter. A. Quenzer. 1,478,253; Dec. 18.
Antiskid-chain-securing device. M. Dean. 1,478,323; Dec. 18.
Athletic supporter. W. F. Jenkins. 1,477,565; Dec. 18.
Auto shade, Night and day. J. W. Foley. 1,478,276; Dec. 18.
Automobile brake. A. Elizalde Rouvier. 1,478,257; Dec. 18.
Automobile dining outfit. B. N. Crockett. 1,477,812; Dec. 18.
Automobile direction indicator. F. O. Gray. 1,478,007; Dec. 18.
Automobile engines, Foot accelerator for. H. V. Souders and J. M. Frost. 1,477,604; Dec. 18.
Automobile frames, Process and apparatus for making flanged crossbars for. R. S. Smith. 1,477,779; Dec. 18.
Automobile horn-button extension. R. E. McGahey. 1,478,287; Dec. 18.
Automobile lock. W. Conklin and W. Wissinger. 1,478,275; Dec. 18.
Automobile lock, Automatic. H. Rowntree. 1,477,771; Dec. 18.
Automobile signal. W. Thomas, jr. Des. 63,595; Dec. 18.
Automobile wheel lock. H. Barnett. 1,477,929; Dec. 18.
Automobiles, Apparatus for tilting. J. O. Reid. 1,478,256; Dec. 18.
Automobiles, Attachable rain shield for. G. C. Henne. 1,478,279; Dec. 18.
Automobiles, Dirigible lamp structure for. G. Laughrin. 1,478,283; Dec. 18.
Automobiles, Foot-throttle-controlling mechanism for. P. A. Means. 1,478,131; Dec. 18.
Automobiles, Luggage carrier for. R. H. Prichard. 1,478,251; Dec. 18.
Bacteriological propagation, Apparatus for facilitating. G. E. Perry. 1,477,894; Dec. 18.
Bag and camera-carrying case, Combination hand. C. C. Cadwell. 1,478,202; Dec. 18.
Bait, Artificial. G. W. Bolton. 1,477,864; Dec. 18.
Bait box, Live-. F. F. Evermann. 1,478,179; Dec. 18.
Baking machine. F. Narobe. 1,477,842; Dec. 18.
Baking, roasting, cooking, and the like, Apparatus for. K. E. R. Nyström. 1,477,844; Dec. 18.
Banding machine, Armature-. B. W. Todd. 1,477,787; Dec. 18.
Bank protective device. N. R. Green. 1,477,701; Dec. 18.
Barrel chime. O. Thomas. 1,478,360; Dec. 18.
Bar: *See*—
Hydraulic expansion bar. Rudder bar.
Bars, Process and apparatus for making flanged. R. S. Smith. 1,477,778; Dec. 18.
Base-exchange material and preparing same. W. H. Green. 1,477,753; Dec. 18.
Basket or receptacle, Wire. B. H. Fuller. 1,477,700; Dec. 18.
Beam splice, Metallic. J. Mayotte. 1,477,838; Dec. 18.
Bearing. R. S. Rodgers. 1,477,718; Dec. 18.
Bearing and drive, Combined resilient. B. F. Seymour. 1,477,913; Dec. 18.
Bearing for hydraulic machines, Shaft. J. Overn, jr. 1,477,764; Dec. 18.
Bearing, Pivot. S. N. Hurt. 1,478,123; Dec. 18.
Bearing, Resilient. B. F. Seymour. 1,477,907; Dec. 18.
Bearings, Making ball. O. H. Lehmann. 1,477,570; Dec. 18.
Bed, Folding. H. Mintz. 1,477,659; Dec. 18.
Bed for vehicles, Folding. B. E. Crain. 1,478,358; Dec. 18.
Bed-rail fastener. A. S. Putnam. 1,477,592; Dec. 18.
Beet lifter. J. M. Henton. 1,477,561; Dec. 18.
Bell-cord hanger. J. Eckert. 1,477,549; Dec. 18.
Belt, Abdominal and kidney. A. S. Montgomery. 1,477,583; Dec. 18.
Belt and making same, Fabric. H. A. Cobaugh. 1,478,025; Dec. 18.
Belt and the like. W. K. Lewis. 1,477,886; Dec. 18.
Belt attachment. C. A. Eva. 1,477,551; Dec. 18.
Belt clasp. B. Zetlin. 1,477,680; Dec. 18.
Belt, Driving. G. Getting and A. Jonas. 1,478,114; Dec. 18.
Belt, Swimming. J. and A. Marengo. 1,478,239; Dec. 18.
Belting. W. S. Langford. 1,477,707; Dec. 18.
Berry cap and stem remover. E. T. Miller. 1,477,839; Dec. 18.
Bit: *See*—
Drill bit.
Block: *See*—
Tackle block.
Board: *See*—
Wall board.
Boiler: *See*—
Internal-combustion boiler.
Bolt: *See*—
Threadless bolt. Trunk bolt.
Boot top. C. Tweedle. Des. 63,596; Dec. 18.
Boring tool. C. C. Koeln. 1,477,651; Dec. 18.
Bottle. C. W. Meisezahl. Des. 63,569; Dec. 18.
Bottle. C. J. Root. Des. 63,588; Dec. 18.
Bottle closure, Sanitary. H. R. Stevens. 1,478,146; Dec. 18.
Bottle-sealing device. M. P. Orr. 1,478,140; Dec. 18.
Box: *See*—
Bait box. Paint box.
Cheese box. Shipping box.
Box and crate. F. Krzyzak. 1,478,038; Dec. 18.
Box and knockout therefor, Junction. W. A. Bonnell. 1,477,806; Dec. 18.
Box or carton, Folding. R. Hunt. 1,478,336; Dec. 18.
Bracket: *See*—
Ladder scaffold bracket. Spotlight bracket.
Bracket. H. Horstman. 1,478,122; Dec. 18.
Brackets and the like on tubes, Mounting. W. Meyer. 1,477,657; Dec. 18.
Brake: *See*—
Automobile brake.
Brake band. A. H. Sweet. 1,478,070; Dec. 18.
Brake-testing mechanism. C. B. Hutchison. 1,477,960; Dec. 18.
Brick, Baffle. F. H. Waite. 1,478,309; Dec. 18.
Brine circulation, Means for. F. M. Hill. 1,478,120; Dec. 18.
Brush clamp. E. C. Bostwick. 1,477,685; Dec. 18.
Brush, Fountain shoe-blacking. C. J. Dusseau. 1,477,636; Dec. 18.
Brush or broom holder. A. O. Försdal. 1,478,213; Dec. 18.
Bucket, Dredging. E. Woolley. 1,477,679; Dec. 18.
Bucket for steam shovel or the like. W. C. Shea. 1,478,301; Dec. 18.
Buckle, Belt. L. W. Shields. 1,477,600; Dec. 18.
Buckle, Belt. M. Starmer. 1,477,726; Dec. 18.
Building wall. D. W. Dodson. 1,477,867; Dec. 18.
Bung, Fermentation. J. B. Fischer. 1,477,552; Dec. 18.
Burner: *See*—
Fuel-oil burner. Oil burner.
Button, Combination cuff and collar. W. J. Circle. 1,477,997; Dec. 18.
Button, Cuff. G. Kollstede. 1,478,231; Dec. 18.
Button or the like, Separable cuff link. C. D. Lyons. 1,478,128; Dec. 18.
Cab signal and automatic train-control system. J. W. Buell. 1,478,100; Dec. 18.
Cab signal and automatic train-control system, Dualistic. J. W. Buell. 1,478,101; Dec. 18.
Cables, Means for supporting aerial. F. L. Rhodes. 1,477,596; Dec. 18.
Cables, Power hitch for pump. C. B. Foster. 1,477,817; Dec. 18.

Cage, Bird. A. Chadwick. 1,477,941; Dec. 18.
Cake pan. A. Katzinger. 1,477,650; Dec. 18.
Calibration of instruments. H. Schlaich. 1,477,666; Dec. 18.
Camera. A. Trowbridge and W. C. Duryea. 1,477,674; Dec. 18.
Cameras, Indicator for. E. M. Woodworth. 1,478,318; Dec. 18.
Can lid. E. C. Bott. 1,477,936; Dec. 18.
Can opener. R. R. Quackenbush. 1,477,716; Dec. 18.
Cane-cutting-apparatus transmission gear. A. W. Dunn and G. Potter. 1,478,327; Dec. 18.
Cannon, Pneumatic. A. Emmelin. 1,477,698; Dec. 18.
Caoutchouc substances, Accelerator for the vulcanization of. C. W. Bedford. 1,477,805; Dec. 18.
Car body, Side-. H. G. Wood. 1,478,316; Dec. 18.
Car unit, Interchangeable. A. H. Smith. 1,477,723; Dec. 18.
Cars, Controlling mechanism for dump. J. D. Benbow. 1,477,747; Dec. 10.
Cars, Safety steering device for. H. F. Matson. 1,478,241; Dec. 18.
Carburetor. C. J. Voegtle. 1,478,152; Dec. 18.
Carburetor, Vortex-type updraft. R. F. and O. H. Ensign. 1,477,946; Dec. 18.
Carrier: *See*—
Dustless carrier. Lamp-shade carrier.
Fruit carrier. Luggage carrier.
Case: *See*—
Thermometer case.
Cash registers or calculating machines, Zeroizing device for. E. Breiting. 1,477,536; Dec. 18.
Cell division, Model for illustrating. P. H. Pope. 1,478,058; Dec. 18.
Cellulose acetates, Manufacture of. W. Nebel. 1,478,137; Dec. 18.
Cement-block machine. H. C. Riege. 1,478,297; Dec. 18.
Chain, Identification-tag. A. J. Thoma and A. Eklund. 1,477,729; Dec. 18.
Chain lock. A von Arx. 1,477,858; Dec. 18.
Chandelier. A. Miller. Des. 63,577; Dec. 18.
Chandelier. F. M. Poritz. Des. 63,585; Dec. 18.
Chandelier. A. Ullman. Des. 63,598; Dec. 18.
Chandelier-body holder. F. M. Poritz. Des. 63,583; Dec. 18.
Chandelier candle holder. F. M. Poritz. Des. 63,584; Dec. 18.
Chart, Mileage. F. W. Bacon. 1,477,801; Dec. 18.
Cheese box. E. W. Iwen. 1,478,181; Dec. 18.
Chute, Letter. W. F. Wemhoener. 1,477,615; Dec. 18.
Chute-operating means. J. Daniel. 1,477,543; Dec. 18.
Circuit controller. F. M. Smith. 1,477,917; Dec. 18.
Circuits and measurement, Modulation. E. L. Nelson. 1,478,050; Dec. 18.
Clamp: *See*—
Brush clamp. Hose clamp.
Concrete-form clamp. Wire-fence clamp.
Clamp. F. Reese. 1,478,254; Dec. 18.
Clamp. A. J. Thomson. 1,478,268; Dec. 18.
Clasp: *See*—
Belt clasp. Universal clasp.
Collar clasp.
Clay products, Surfacing. E. V. Poston. 1,477,663; Dec. 18.
Cleaner: *See*—
Fuel cleaner.
Clip: *See*—
Spring clip.
Clothespin. P. C. Partenio. 1,478,353; Dec. 18.
Clutch band. J. Mulligan and C. R. Lytle. 1,477,577; Dec. 18.
Coal and the like, Apparatus for washing. R. A. Henry. 1,477,955; Dec. 18.
Coal breaker. F. Pardee. 1,477,848; Dec. 18.
Coal cutting and loading machine. F. K. Holmested. 1,478,280–1; Dec. 18.
Coat, Rain and storm. F. E. Toniutti. 1,477,788; Dec. 18.
Coat, Reversible. H. J. Yaghubian. 1,477,744; Dec. 18.
Coating and treating materials. J. L. Herman. 1,477,703; Dec. 18.
Coin tray, Illuminated. H. I. Larson. 1,477,708; Dec. 18.
Collar. G. H. Woods. 1,478,091; Dec. 18.
Collar clasp. H. C. Neggesmith. 1,477,762; Dec. 18.
Comb. E. Letarte. Des. 63,566; Dec. 18.
Combination tool. C. Leak. 1,477,833; Dec. 18.
Combustion engine, Two or multi cylinder. A. O. L. Wennerby. 1,477,736; Dec. 18.
Compass-deviation corrector. W. O. White. 1,478,080; Dec. 18.
Composition of matter and using the same. R. Luckenbach. 1,478,237; Dec. 18.
Compounding, impregnating, and coating, Fluid composition for. R. P. L. Britton. 1,477,938; Dec. 18.
Concrete building. W. C. Richman. 1,477,665; Dec. 18.
Concrete form clamp. Self-locking. A. L. Moore. 1,477,974; Dec. 18.
Concrete piles, Apparatus for use in the construction of. P. N. Lancaster. 1,477,568; Dec. 18.
Concrete piles, Preparatory pile used in the construction of. H. P. Lancaster. 1,477,567; Dec. 18.
Conductor support. S. S. Matthes. 1,477,580; Dec. 18.
Connecting joint. A. O. Austin. 1,477,800; Dec. 18.
Container. W. P. Braender. 1,477,686; Dec. 18.
Container cap. E. P. Ryburg. 1,477,772; Dec. 18.
Container lid. F. Owen. 1,477,585; Dec. 18.
Container, Pouring-spout. J. M. Hothersall. 1,478,035; Dec. 18.
Container, Separable compartment. G. X. Wendling. 1,478,194; Dec. 18.
Containers, Making sheet-metal. W. H. Richman. 1,478,060; Dec. 18.
Conveyer device. R. Shedenhelm. 1,477,776; Dec. 18.
Cooker. O. H. Hansen. 1,478,222; Dec. 18.
Cooker, Gas. C. H. Mitchell. 1,478,134; Dec. 18.
Cooking utensil. G. Schluesselburg. 1,477,667; Dec. 18.
Cooking utensil. A. Sechler. 1,477,981; Dec. 18.
Cooky. F. Werner. Des. 63,600; Dec. 18.
Cotton gin. C. L. Dickerman and W. E. Cummings. 1,477,694; Dec. 18.
Counter-turning machine. F. A. Reardon. 1,477,769; Dec. 18.
Coupling. E. E. Johnson. 1,478,124; Dec. 18.
Coupling guard. H. C. Sweeney. 1,477,607; Dec. 18.
Crate or coop, Foldable chicken. O. M. Bates. 1,477,624; Dec. 18.
Crushing machine. A. T. Perkins. 1,477,587; Dec. 18.
Cue rack. C. Hine. 1,478,032; Dec. 18.
Cue rack, Rotary. J. O. Matteson. 1,478,043; Dec. 18.
Culinary stirring device. C. de La Barre. 1,477,653; Dec. 18.
Cultivating tool, Hand. H. H. Ruediger. 1,478,298; Dec. 18.
Cultivator. T. Okamoto. 1,477,846; Dec. 18.
Cup: *See*—
Lubricator cup.
Curtain suspender. J. R. E. Heseltine. 1,477,956; Dec. 18.
Cushion, Game-table. C. P. Miller. 1,478,046; Dec. 18.
Cutter: *See*—
Ice cutter. Roll cutter.
Cutter head. C. T. McDaniel. 1,477,970; Dec. 18.
Degasifying agent. W. A. Scheuch. 1,478,062; Dec. 18.
Dental casting apparatus. W. E. Sattler. 1,477,853; Dec. 18.
Dental impression guide. I. Brown. 1,478,019; Dec. 18.
Depositing machine. T. S. Vierow. 1,477,857; Dec. 18.
Detector stand. R. J. Heitzman. 1,477,826; Dec. 18.
Dial mounting, Flexible. M. F. Szukalski, jr. 1,477,785; Dec. 18.
Die-casting machine. W. A. Heinze. 1,478,117; Dec. 18.
Digger: *See*—
Potato digger.
Dipper. J. O. Clark. 1,477,539; Dec. 18.
Dishwashing apparatus. H. Rosenbaum. 1,477,903; Dec. 18.
Dispensing cabinet. A. Ek. 1,478,329; Dec. 18.
Dispensing device. W. Kline. 1,477,760; Dec. 18.
Display device. W. L. Hopkins. 1,478,033; Dec. 18.
Doll. A. D. Langdon. Des. 63,563–4; Dec. 18.
Doll. L. N. Sanger. Des. 63,589; Dec. 18.
Doll. D. Straiton. Des. 63,594; Dec. 18.
Door-closing device and lock. H. A. Benedict and E. M. Moller. 1,477,992; Dec. 18.
Doors, Device for opening and closing sliding. W. J. Dooley. 1,478,326; Dec. 18.
Doors, Locking attachment for. S. Ulrich. 1,477,731; Dec. 18.
Downdraft furnace. A. R. Atteberry. 1,477,927; Dec. 18.
Drier: *See*—
Lumber drier. Rotary drier.
Drill: *See*—
Mine drill. Spindle drill.
Drill. P. W. Thurston. 1,477,855; Dec. 18.
Drill bit. S. P. Bashara and C. Paggi. 1,477,931; Dec 18.
Drill bit. S. F. and J. F. Bashara. 1,477,932; Dec. 18.
Drill bit and core-taking device, Combination. S. F. Bashara. 1,477,933; Dec. 18.
Drilling and cutting, Apparatus for. J. N. Selvig. 1,478,068; Dec. 18.
Driven machines, Controller for. N. L. Mortensen. 1,477,840; Dec. 18.
Dustless carrier. F. K. Bartholomew and J. A. Ramage. 1,477,930; Dec. 18.
Dye, Production of triphenylmethane. D. W. Bissell. 1,478,015; Dec. 18.
Dye Vat. D. G. Rogers and H. T. Stowell. 1,478,061; Dec. 18.
Dyes, Triarylmethane. L. P. Kyrides. 1,478,039; Dec. 18.
Dyestuffs, Production of vat. L. C. Daniels and W. S. Lawrence. 1,478,027; Dec. 18.
Dynamo-electric stator. T. Schou and R. L. Behrens. 1,477,773; Dec. 18.
Egg beater. W. W. Crocker. 1,477,943; Dec. 18.
Egg turner. C. H. Bishop. 1,478,201; Dec. 18.
Electric generator, Magneto-. E. B. Nowosielski. 1,477,843; Dec. 18.
Electric-light cluster socket. M. Herskovitz. 1,478,119; Dec. 18.
Electric-light fixtures, Holder for. P. Altamura. 1,477,798; Dec. 18.
Electric-lighting fixtures and portable lamps, Flexible chain for. M. Herskovitz. 1,478,009; Dec. 18.
Electric machine, Alternating-current dynamo-. T. W. Varley. 1,478,012; Dec. 18.

Electric machines, Bar winding for. F. Punga and H. Ross. 1,478,252; Dec. 18.
Electric switch. G. Leddick. 1,477,834; Dec. 18.
Electric switches, Safety appliance for. M. Murray. 1,477,841; Dec. 18.
Electric-weld-forging mat. I. W. Henry. 1,478,226; Dec. 18.
Electrical apparatus, Casing for. R. E. Wagner. 1,477,792; Dec. 18.
Electrical connector device. R. B. Benjamin. 1,478,166; Dec. 18.
Electrical distribution system. L. C. Wescoat. 1,478,079; Dec. 18.
Electrical heater. R. R. Shriver. 1,477,982; Dec. 18.
Electrical heating unit. M. Simon. 1,477,602; Dec. 18.
Electrical system. W. A. Turbayne. 1,478,011; Dec. 18.
Electrodes, Jig employed in the construction of. R. F. Thimble. 1,478,071; Dec. 18.
Electrolytic apparatus. R. K. Chrisman. 1,477,629; Dec. 18.
Electrolytic cell. I. H. Levin. 1,478,341; Dec. 18.
Electrolytic cell for generating oxygen and hydrogen. I. H. Levin. 1,478,340; Dec. 18.
Electromagnets, Amplifier for. F. Schröter. 1,477,668; Dec. 18.
Electron-discharge device. H. W. Weinhart. 1,478,076; Dec. 18.
Electronic emission. H. P. Donle. 1,477,869; Dec. 18.
Electronic emission, Method and apparatus for increasing. H. P. Donle. 1,477,868; Dec. 18.
Elevator brake, Automatic. P. Kesten and H. Osborne. Re15,733; Dec. 18.
Elevator-door lock. J. F. Clancy. 1,477,630; Dec. 18.
Elevator-door-locking mechanism. B. Wexler. 1,477,737; Dec. 18.
Emblem, pin, or button. E. O. Kiessig. Des. 63,559; Dec. 18.
Engine: *See*—
Combustion engine. Rotary engine.
Internal-combustion engine.
Engine. A. L. Powell. 1,478,357; Dec. 18.
Engine starter. V. Bendix. 1,477,863; Dec. 18.
Engine, Accelerator for internal-combustion. E. F. Bateman. 1,477,683; Dec. 18.
Engines, Electric signal for internal-combustion. A. C. Wood. 1,478,090; Dec. 18.
Engines from gas derived from calcium carbide, Means and method for operating combustion. R. J. Meyers. 1,477,710; Dec. 18.
Engines, Gasoline filter for internal-combustion. C. L. Lohmann. 1,477,885; Dec. 18.
Engines, Miss detector for internal-combustion. F. H. Vallton. 1,477,732; Dec. 18.
Engines, Vaporizer for hydrocarbon. C. A. Wulf. 1,478,092; Dec. 18.
Envelope. N. Papparodis. 1,478,248; Dec. 18.
Evaporating apparatus. W. A. Swan. 1,478,186; Dec. 18.
Eyes, Testing. J. Wolff. 1,478,089; Dec. 18.
Face-turning machine. C. A. Franklin. 1,478,331; Dec. 18.
Fan for clear vision. J. F. Callaway. 1,477,690; Dec. 18.
Fan, Rotary hand. D. Marrazzo. 1,478,240; Dec. 18.
Fastening device. C. M. Hamblin. 1,478,218; Dec. 18.
Faucet. J. A. Costello. 1,477,808; Dec. 18.
Faucet, Combination. K. Hoffman. 1,478,227; Dec. 18.
Faucet, Double-acting. J. J. Mahoney. 1,478,289; Dec. 18.
Feed from coarse farm products, Producing stock. E. A. Laughlin. 1,477,964; Dec. 18.
Feed-mixing device. C. T. Patterson. 1,477,586; Dec. 18.
Feeder. E. R. Draver. 1,478,000; Dec. 18.
Fence, Farm and poultry. W. H. Sommer. 1,477,603; Dec. 18.
Filing tray. F. L. G. Straubel. 1,477,783; Dec. 18.
Filtering apparatus. B. Thoens. 1,477,986; Dec. 18.
Finger ring. B. F. Brogan. Des. 63,552; Dec. 18.
Fire arch. H. A. Poppenhusen. 1,477,895; Dec. 18.
Firing apparatus, Powdered-material-. A. J. Grindle. 1,477,824; Dec. 18.
Fish bait, Artificial. C. Heddon and W. A. Stolley. 1,477,756; Dec. 18.
Fish-stringing line. J. A. May. 1,477,656; Dec. 18.
Fishing tool, Automatic. A. E. Brady. 1,477,535; Dec. 18.
Fishing tool, Overshot. J. B. Reilly and C. H. Stone. 1,477,593; Dec. 18.
Fixture arm. M. and I. Geringer. Des. 63,555; Dec. 18.
Flash light. R. L. Hunter. 1,478,282; Dec. 18.
Flooring and wall paneling, Parquet. E. S. Daniels, and H. F. Schuck. 1,477,813; Dec. 18.
Flower or lamp stand. J. T. Phillips. Des. 63,582; Dec. 18.
Fluid-removing device. F. Van Inwagen. 1,477,733; Dec. 18.
Fluids, Piping for pressure. P. Marinoni. 1,478,129; Dec. 18.
Folding table. L. Ferguson. 1,478,004; Dec. 18.
Food-slicing machine. G. A. Berglund. 1,478,200; Dec. 18.
Footwear, Manufacture of molded articles, more particularly heels and soles for. L. McFarlane. 1,477,576; Dec. 18.
Frame: *See*—
Printing frame. Vehicle towing frame.
Fruit and vegetable containers, Packing guide for. G. L. Comlossy. 1,477,542; Dec. 18.
Fruit carrier. H. J. Thompson. 1,477,921; Dec. 18.
Fruit-juice machine. J. E. Hennessy and C. F. Blattner. 1,478,224; Dec. 18.
Fruit tool. W. S. Perry. 1,477,662; Dec. 18.
Fuel and making the same, Artificial. C. F. Staudenmayer. 1,477,671; Dec. 18.
Fuel cleaner. R. F. Ensign. 1,477,947; Dec. 18.
Fuel-oil burner. E. J. Moynihan. 1,478,136; Dec. 18.
Fuel tanks, Reserve-supply drain and cut-off valve for liquid-. P. Todd. 1,478,189; Dec. 18.
Fuel vaporizers, Auxiliary air supply for. J. A. Amori. 1,477,989; Dec. 18.
Furnace: *See*—
Downdraft furnace. Melting furnace.
Furnace. H. A. Poppenhusen and A. P. Strong. 1,477,896; Dec. 18.
Furniture, Camp. F. G. Musso. 1,478,244; Dec. 18.
Furniture, Disappearing. H. L. Monroe. 1,477,660; Dec. 18.
Fuse, Cartridge. E. H. Ellison. 1,478,109; Dec. 18.
Fuse igniter, Electric-. M. P. Weinbach. 1,477,735; Dec. 18.
Fuse plug. J. B. Glowacki. 1,477,643; Dec. 18.
Garment. R. F. Oberndorfer. 1,478,349; Dec. 18.
Garment, Apparel. D. Kops. 1,478,232–3; Dec. 18.
Garment, Flesh-reducing. L. M. Bender. 1,478,095; Dec. 18.
Garment hanger. L. M. Marble. 1,477,973; Dec. 18.
Garment hanger. N. J. Marks. 1,478,290; Dec. 18.
Garter, Man's. M. Weinstein. 1,478,077; Dec. 18.
Gas and liquid contact device. J. W. Dempsey. 1,477,546; Dec. 18.
Gas, Device for promoting the combustion of carbon-monoxide. J. W. Craig. 1,478,104–6; Dec. 18.
Gas generator, Acetylene-. P. H. Lother and J. L. Griswold. 1,478,285; Dec. 18.
Gas generator, Acetylene-. E. M. Rosenbluth. 1,477,852; Dec. 18.
Gas heater. J. E. Davis. 1,477,998; Dec. 18.
Gas lighter. O. Zumft. 1,478,158; Dec. 18.
Gas meter with swinging bell-shaped members. L. Millet. 1,478,133; Dec. 18.
Gases, Purification of. R. G. Jones. 1,478,036; Dec. 18.
Gasket, Packing. W. Dieter. 1,478,108; Dec. 18.
Gate-opening mechanism. H. E. Ware. 1,477,987; Dec. 18.
Gauge: *See*—
Adjustable gauge. Ring gauge.
Gauge. B. H. Blood. 1,477,533; Dec. 18.
Gauge. F. Ellers. 1,478,328; Dec. 18.
Gauge. W. H. Wood. 1,478,317; Dec. 18.
Gear cutting. R. L. Hibbard and F. W. Wappat. 1,477,562; Dec. 18.
Gear, Power reverse. W. Guenst. 1,477,557; Dec. 18.
Gear shift and brake control. W. R. Coulter. 1,478,176; Dec. 18.
Gear teeth, Generation of. H. E. Taylor. 1,478,188; Dec. 18.
Gear, Variable. N. Webster. 1,478,075; Dec. 18.
Generator: *See*—
Electric generator. Gas generator.
Generators, Regulator for electric. R. G. Standerwick. 1,477,781; Dec. 18.
Generators, Regulator for electric. C. P. Steinmetz and R. G. Standerwick. 1,477,782; Dec. 18.
Glass containers, Metal top for sealing. M. P. Orr. 1,478,141; Dec. 18.
Glass dish, Composite. H. G. Dalzell. 1,478,026; Dec. 18.
Glassworking machine. T. H. Sloan. 1,478,261; Dec. 18.
Grab. D. J. Barnard. 1,477,530; Dec. 18.
Grade meter. R. G. Day. 1,477,545; Dec. 18.
Grading, Method of and apparatus for. C. J. Hudson and W. C. Broga. 1,478,335; Dec. 18.
Grain-handling apparatus. J. R. D. Travis. 1,478,269; Dec. 18.
Grinding wheels, Process and apparatus for classifying. C. E. Gillett. 1,478,333; Dec. 18.
Gun, Air. E. S. Roe. 1,477,770; Dec. 18.
Gun carriage, Central-pivot. E. Schneider. 1,477,980; Dec. 18.
Guns mounted on endless tracks for varying the height of the line of fire of the gun, Apparatus in and relating to trail-carriage. E. Schneider. 1,477,979; Dec. 18.
Hair trimmer and safety razor, Combination. W. H. Burns. 1,477,689; Dec. 18.
Hair-waving device. H. Jacobs. 1,477,873; Dec. 18.
Hammer-butt springs, Method of and tool for replacing broken. W. J. Tiffany. 1,477,610; Dec. 18.
Hanger: *See*—
Bell-cord hanger. Sash hanger.
Garment hanger. Utensil hanger.
Pipe hanger.
Hanger. F. C. Hall. 1,477,702; Dec. 18.
Handle. T. W. Wright. 1,477,742; Dec. 18.
Handlamp. A. P. Paine. 1,477,892; Dec. 18.
Hat and garment holder. B. A. Kaszinski. 1,477,566; Dec. 18.
Hatchet, Carpenter's. V. M. Swann. 1,478,187; Dec. 18.
Headgear. M. P. Beach. 1,477,934; Dec. 18.
Header mechanism. R. L. Wilcox. 1,478,315; Dec. 18.

Headlight dimmer. R. Trejo M. and D. Ponce. 1,478,148; Dec. 18.
Headlight for automobiles, Dirigible. A. C. Duke. 1,478,001; Dec. 18.
Heater: *See*—
Electrical heater.
Gas heater.
Oil-well heater.
Heaters, Liquid-fuel burner for. C. A. Watrous. 1,477,793; Dec. 18.
Heating unit for ovens. W. F. Schaller. 1,478,363; Dec. 18.
Heel-breasting machine. T. Lund. 1,477,574; Dec. 18.
Heel-nailing machine, Wood-. F. A. Reardon. 1,477,768; Dec. 18.
Hinge construction. R. I. Rhodes and P. T. Simmons. 1,477,717; Dec. 18.
Hog oiler, Automatic. A. M. Doty. 1,478,178; Dec. 18.
Hoisting device. A. Boulanger. 1,478,272; Dec. 18.
Hook: *See*—
Trip hook.
Hose clamp. J. R. Lowrey. 1,477,573; Dec. 18.
Hose, Wire-wound. R. B. Whitmarsh. 1,478,083; Dec. 18.
Hot plate, Gas. H. J. McGowan. 1,477,971; Dec. 18.
Huller: *See*—
Almond huller.
Hydraulic expansion bar. D. V. Sickman. 1,477,691; Dec. 18.
Ice box for use at soda fountains. F. M. Hill. 1,478,121; Dec. 18.
Ice-cream freezer. S. J. Van Kuren. 1,478,073; Dec. 18.
Ice cutter, Electrically-heated. J. Deenihan. 1,477,631; Dec. 18.
Ice shaver. L. F. Cotey. 1,478,175; Dec. 18.
Incinerator. J. Feigenbaum. 1,477,638; Dec. 18.
Indicator: *See*—
Automobile-direction indicator.
Indicator. E. F. Kinzler. 1,477,962; Dec. 18.
Inductance unit. A. Taylor. 1,477,608; Dec. 18.
Information apparatus, Selective. L. R. McDonald. 1,477,887; Dec. 18.
Insect catcher. C. Fowler. 1,478,330; Dec. 18.
Insulation from electric wires, Machine for stripping. M. P. Wetmore. 1,477,678; Dec. 18.
Internal-combustion boiler. A. Seidler. 1,478,067; Dec. 18.
Internal-combustion engine. S. I. Prescott. 1,477,591; Dec. 18.
Internal-combustion engine and scavenging and charging process thereof, Two-stroke-cycle. A. Buchi. 1,477,994; Dec. 18.
Iron: *See*—
Soldering iron.
Iron and iron alloys, Apparatus for treating. W. H. Fisher and P. Chambers. 1,478,366; Dec. 18.
Iron and its alloys, Treating. W. H. Fisher and P. Chambers. 1,478,367; Dec. 18.
Iron and stand, Electric. E. W. Wells. 1,478,310; Dec. 18.
Irons, Heat indicator for electric. A. Weiss. 1,478,271; Dec. 18.
Irrigation system. W. Krause. 1,478,234; Dec. 18.
Jack: *See*—
Lifting jack.
Portable jack.
Jack structure. J. P. Sykes and H. E. Stover. 1,478,307; Dec. 18.
Jar cap, Fruit-. E. Beavers. Des. 63,551; Dec. 18.
Jar holder. W. R. Cloer. 1,477,865; Dec. 18.
Jewelry, Crown setting for articles of. Z. Anshen. Des. 63,548; Dec. 18.
Joint: *See*—
Connecting joint.
Pipe joint.
Rail joint.
Universal joint.
Kerchief, Movie. T. B. Lamb. 1,477,654; Dec. 18.
Kettle, Water. J. Haket. 1,477,644; Dec. 18.
Kiln and crib, Convertible drying. G. W. Atherton. 1,477,682; Dec. 18.
Kiln, Continuous. F. Mayer. 1,477,837; Dec. 18.
Kiln, Continuous tunnel. L. A. Vincent. 1,477,675; Dec. 18.
Kitchen ventilator. W. R. Powell. 1,477,590; Dec. 18.
Kite, Miner's. W. K. Peters and A. Foster. 1,478,296; Dec. 18.
Kneading machine specially for dry and slimy masses. P. Gundlach. 1,478,116; Dec. 18.
Kneeling pad. J. O'Connell. 1,477,763; Dec. 18.
Knitting frame for the production of openwork sinker wales, Rectilinear. A. Gilller. 1,478,115; Dec. 18.
Ladder scaffold bracket. H. P. White. 1,477,738; Dec. 18.
Lamp. C. E. Godley. 1,477,819; Dec. 18.
Lamp. O. Lamacchia. Des. 63,562; Dec. 18.
Lamp. W. A. Luby. 1,478,236; Dec. 18.
Lamp, Electric battery. M. L. Kaplan. 1,477,876–8; Dec. 18.
Lamp, Electric candle. M. L. Kaplan. 1,477,875; Dec. 18.
Lamp fixture. A. J. D. Ohm. Des. 63,580–1; Dec. 18.
Lamp fixture, Back plate for a. A. J. D. Ohm. Des. 63,579; Dec. 18.
Lamp post, Street-. A. G. Kinney. Des. 63,560; Dec. 18.
Lamp shade. S. H. Baker. 1,477,991; Dec. 18.
Lamp-shade carrier. H. J. Waite. 1,477,734; Dec. 18.
Lamp, Switchboard incandescent. H. T. Bellamy. 1,478,014; Dec. 18.
Lantern. A. H. Handlan. 1,477,755; Dec. 18.
Lantern, Signal. W. A. Welton. 1,477,923; Dec. 18.
Leather folding machine. J. W. Anthony. 1,477,745; Dec. 18.
Leather-grader marker. L. A. Cogswell. 1,477,633; Dec. 18.
Legging. C. Tweedie. Des. 63,597; Dec. 18.
Lens-rim removing and replacing device. A. B. Seppmann. 1,477,719; Dec. 18.
Lid support. D. M. Watson. 1,477,613; Dec. 18.
Lifeboats, Lowering and raising drum for. S. E. Allbin. 1,477,529; Dec. 18.
Life preserver. L. J. O'Shaughnessy. 1,478,351; Dec. 18.
Life-saving and sporting device. O. F. Campbell. 1,477,627; Dec. 18.
Lifter: *See*—
Beet lifter.
Light: *See*—
Flash light.
Light products, Method of and apparatus for collecting. W. H. Davis. 1,478,205; Dec. 18.
Light support, garment and hat rack, Combined. J. Batson. Des. 63,550; Dec. 18.
Lighting and power fixture. A. T. Sampson. 1,478,066; Dec. 18.
Lighting fixture. G. Ludwig. Des. 63,568; Dec. 18.
Lighting fixture. W. J. Meixner. Des. 63,570–5; Dec. 18.
Lifting jack. W. C. Farnum. 1,478,111; Dec. 18.
Lighting fixture. W. H. Spencer. Des. 63,592; Dec. 18.
Lighting-fixture bush. H. Huebner. Des. 63,557; Dec. 18.
Lighting-fixture plate. J. C. Mettler. Des. 63,576; Dec. 18.
Lighting fixtures, Bridge arm for. A. Cooper. Des. 63,554; Dec. 18.
Link, Connecting. P. E. Fellows. 1,478,003; Dec. 18.
Liquids and making same, Shipping container for. L. M. White. 1,477,795; Dec. 18.
Lithopone, Apparatus for calcining. J. L. Mitchell. 1,478,347; Dec. 18.
Loading apparatus. E. O. Nelson. 1,477,712; Dec. 18.
Loading machine. R. P. Greenleaf. 1,477,754; Dec. 18.
Lock: *See*—
Automobile lock.
Automobile wheel lock.
Chain lock.
Elevator-door lock.
Safety lock.
Lock. G. Dallanis. 1,478,322; Dec. 18.
Lock. O. J. Looney. 1,478,343; Dec. 18.
Lock. P. P. Shek. 1,477,777; Dec. 18.
Locomotive. R. F. Hall. 1,477,952; Dec. 18.
Locomotive draft appliance. A. J. Townsend and H. W. Snyder. 1,477,730; Dec. 18.
Locomotive provided with tubular air preheaters. F. Ljungström. 1,477,968; Dec. 18.
Locomotives and the like, Driving-wheel box for. J. F. Byrne. 1,477,625; Dec. 18.
Log-barking machine. N. E. Ward. 1,478,193; Dec. 18.
Loom, Shuttle-changing. A. J. Chevrette. 1,477,995; Dec. 18.
Loom temple. W. W. Robertson. 1,477,977; Dec. 18.
Looms, Feeler mechanism for. I. Snow. 1,478,264; Dec. 18.
Looms, Warp stop mechanism for. B. D. L. Ellison. 1,478,210; Dec. 18.
Looms, Warp stop mechanism for. E. S. Stimpson. 1,478,265; Dec. 18.
Lubricants, Forming composite. D. K. Dodge. 1,477,635; Dec. 18.
Lubricating compound. M. C. Van Gundy. 1,477,611; Dec. 18.
Lubricator cup. O. Stegmann. 1,477,672; Dec. 18.
Luggage carrier. R. C. Stewart. 1,478,304; Dec. 18.
Lumber drier. K. D. Sykes. 1,477,985; Dec. 18.
Machine elements, Means for making. A. J. Fisher. 1,477,640; Dec. 18.
Magnesium and alloys comprising the same, Treating. E. Wollner and F. Thomas. 1,477,922; Dec. 18.
Magnetizing apparatus. A. G. Palmer. 1,477,847; Dec. 18.
Magneto ignition system. C. H. Tower. 1,477,789; Dec. 18.
Match safe. J. E. Neahr. 1,477,890; Dec. 18.
Materials, Machine for finishing the edges of flexible. L. J. Van Guelpen. 1,478,190; Dec. 18.
Measuring and cost computing machine, Fabric. J. L. Wheeler. 1,478,155; Dec. 18.
Meat shaper and preserver. A. M. Demuth. 1,477,548; Dec. 18.
Medal. O. H. Lindenberg. Des. 63,567; Dec. 18.
Melting furnace, Electric. A. W. Gregg. 1,477,821; Dec. 18.
Memorandum holder, Pocket. H. Hammitt. 1,478,219; Dec. 18.
Mercury catalyst, Regenerating. N. Grünstein. 1,477,951; Dec. 18.
Metal wheel. M. Lachman. 1,477,884; Dec. 18.
Meter: *See*—
Grade meter.
Water meter.
Micrometers, Adjustable nut for. E. C. Berg. 1,477,935; Dec. 18.
Milking machine. A. Sabroe. 1,477,978; Dec. 18.
Mill: *See*—
Rolling mill.
Mine air stop. S. H. Snyder. 1,478,303; Dec. 18.
Mine drill. G. Dobson. 1,477,749; Dec. 18.

Mold: *See*—
Pipe mold.
Molds, Means for removing articles from. J. A. Lewis and A. C. Crimmel. 1,478,126; Dec. 18.
Molding and trim rail, Drip. J. Galamb. 1,477,752; Dec. 18.
Mop. W. Ritschard. 1,477,900; Dec. 18.
Mop head. W. H. Jayne. 1,478,339; Dec. 18.
Moth destroying and repelling device. W. J. Duddleson and C. L. Slusher. 1,478,208; Dec. 18.
Motor control. F. B. Anderson. 1,477,926; Dec. 18.
Motor controller. E. W. Seeger. 1,477,774; Dec. 18.
Motor-spring-securing means. J. C. Clark. 1,478,173; Dec. 18.
Motor starter and gear shifter, Combined. H. J. Murray. 1,478,243; Dec. 18.
Motor-starting switch. B. E. Getchell. 1,477,871; Dec. 18.
Motors and generators, Brush rigging for electric. A. G. Sutcliffe. 1,477,606; Dec. 18.
Motors, Method of and means for fuel injection for internal-combustion. J. H. Suter. 1,477,984; Dec. 18.
Motors, Rotor for induction. E. C. Ballman. 1,478,164; Dec. 18.
Movement, Instrument for transmitting angular. L. E. Hildebrand and D. P. Thomson. 1,477,827; Dec. 18.
Nail stripper, Automatic-feed. C. C. Calvert. 1,478,021; Dec. 18.
Nailing machine. E. J. Henderson. 1,478,118; Dec. 18.
Nailing machine. E. C. Northrup. 1,478,362; Dec. 18.
Necktie fastener. L. W. King. 1,477,759; Dec. 18.
Necktie holder. L. Scholler. 1,478,064; Dec. 18.
Nest, Poultry. C. L. Allen. 1,477,861; Dec. 18.
Network, Equalizing. E. C. Wente. 1,478,078; Dec. 18.
Oil burner. V. W. Russell, J. T. Kyle, and J. A. Campbell. 1,478,299; Dec. 18.
Oil burner. C. F. Wheeler. 1,477,794; Dec. 18.
Oil, Method of and apparatus for atomizing and burning fuel. E. A. Reid. 1,478,255; Dec. 18.
Oil-well heater. R. C. Beck. 1,477,802; Dec. 18.
Oils, Oil-converting apparatus for the conversion and transformation of. J. H. Adams. 1,477,860; Dec. 18.
Oils, Treating. E. M. Clark, N. E. Loomis, and J. R. Carringer. 1,478,102; Dec. 18.
Oiler. T. Smith. 1,477,725; Dec. 18.
Oiling system. H. D. Barrett. 1,478,094; Dec. 18.
Ore and the like, Apparatus for handling. C. E. Davis. 1,477,814; Dec. 18.
Ores, Making agglomerates of fine. C. Giesecke. 1,478,215; Dec. 18.
Ores, Treatment of complex sulphide. W. G. Perkins. 1,478,295; Dec. 18.
Oven, Gas. G. W. Howes. 1,477,705; Dec. 18.
Ovens, Collecting main for coke. L. Suber and E. Mercer. 1,477,673; Dec. 18.
Overalls. C. R. Wood. 1,477,925; Dec. 18.
Package or container, Special. J. Peterson. 1,478,354; Dec. 18.
Packaging mechanism. J. Peterson and J. C. Thom. 1,478,056; Dec. 18.
Packing. J. G. Leonard. 1,478,040; Dec. 18.
Packing cases, Means for fastening articles in. A. Neils. 1,478,138; Dec. 18.
Pad: *See*—
Kneeling pad.
Paint box. W. H. Milliken, jr. 1,478,242; Dec. 18.
Paints, varnishes, and the like, Delivering. T. F. Bradley. 1,478,017; Dec. 18.
Pan: *See*—
Cake pan.
Paper-box member; Reenforced. E. W. Labombarde. 1,477,963; Dec. 18.
Paper container bodies and the like, Machine for making. J. T. Bond. 1,478,098; Dec. 18.
Paper fastener. H. A. Lindstrom. 1,477,966; Dec. 18.
Paper fasteners, Punch for. H. A. Lindstrom. 1,477,967; Dec. 18.
Paper, Manufacture of rolled wrapping. W. C. Pickell. 1,477,588; Dec. 18.
Paper rolls, etc., Machine for applying labels to. P. D. Parsons. 1,477,893; Dec. 18.
Pedicycles, Propelling means in. R. D'Antonio. 1,477,544; Dec. 18.
Pencil. J. Bricken. 1,478,018; Dec. 18.
Pencil holder. B. J. Blaskie and H. E. Bleier. 1,478,170; Dec. 18.
Pencil, Propel. W. M. Saunders. 1,477,905–6; Dec. 18.
Pen, Fountain. L. G. Gaarder and N. C. Enger. 1,478,332; Dec. 18.
Pen, Fountain. E. D. Wintersteen. 1,478,157; Dec. 18.
Penholder and safety collar, Combination. J. Černý. Des. 63,553; Dec. 18.
Perforating machine. L. J. Van Guelpen. 1,478,150; Dec. 18.
Pharmaceutical product. J. Callsen. 1,477,691; Dec. 18.
Phonograph. C. De Vere. 1,477,944; Dec. 18.
Phonograph. G. Seiffert. 1,477,775; Dec. 18.
Phonograph cabinet and chair, Combination. L. C. Hirt. 1,477,828; Dec. 18.
Phonograph-record-filing cabinet. C. N. Cahusac. 1,477,626; Dec. 18.
Phonographs, Automatic stop for. E. E. Wiford. 1,477,739; Dec. 18.
Phonographic stylus. R. C. Wade. 1,478,192; Dec. 18.
Photographic blanks, Producing integral multicolored screens on. I. Kitsee. 1,477,881–2; Dec. 18.
Photographic-printing press. H. B. Stewart. 1,477,920; Dec. 18.
Photography, Method and apparatus for producing novel and multiple-image effects in. L. F. Douglass. 1,477,999; Dec. 18.
Pick, Grab. C. H. Baisden. 1,478,198; Dec. 18.
Picker: *See*—
Stone picker.
Picker stick. F. Mossberg. 1,477,584; Dec. 18.
Picking and rock-drilling machine. A. Berner. 1,477,684; Dec. 18.
Picture machine, Motion-. C. A. Clement and A. Borskoefoed. 1,477,541; Dec. 18.
Pigeon trap, Clay-. C. O. Carothers. 1,477,942; Dec. 18.
Pilot. H. M. Pfiager. 1,478,249; Dec. 18.
Pin: *See*—
Wrist pin.
Pipe-cutting machine. A. T. Sampson. 1,478,065; Dec. 18.
Pipe hanger. L. R. Zifferer. 1,477,621; Dec. 18.
Pipe joint. H. Dollman. 1,477,696; Dec. 18.
Pipe-laying machine, Clutch for. G. B. Smith and R. W. Sanders. 1,477,670; Dec. 18.
Pipe lines, Wrought-metal repair device for. J. Clark. 1,478,172; Dec. 18.
Pipe mold, Centrifugal. W. L. Haynes. 1,477,872; Dec. 18.
Pipes and the like, Floor connection for soil. J. P. Heeney. 1,477,560; Dec. 18.
Piston construction. H. C. Metzger. 1,478,361; Dec. 18.
Piston ring. V. J. Emry. 1,477,550; Dec. 18.
Piston ring. E. M. Williams. 1,477,617; Dec. 18.
Piston-ring-expanding tool. V. C. Tillier. 1,477,786; Dec. 18.
Piston-ring-grinding machines, Attachment for. C. E. Johnson. 1,477,758; Dec. 18.
Piston-ring tool. E. F. Westman. 1,477,677; Dec. 18.
Plait folder, Adjustable center-. J. E. Chalman. 1,478,023; Dec. 18.
Planetarium, Terrestrial. B. F. Bounds. 1,478,099; Dec. 18.
Planter. C. B. Rowland. 1,477,904; Dec. 18.
Pocket-carried devices, Clip attachment for. A. U. Nelson. 1,478,049; Dec. 18.
Pocketknife, etc. J. T. Sibley. 1,478,260; Dec. 18.
Popcorn machine. J. I. Holcomb and J. F. Hoke, jr. 1,477,704; Dec. 18.
Porous substances, Distilling materials in contact with. B. Gallsworthy. 1,477,642; Dec. 18.
Portable jack. J. S. Townsend. 1,477,790; Dec. 18.
Portraits, Apparatus for making moving. J. Harlow 1,478,278; Dec. 18.
Postage meter and mail-marking machine. A. H. Pitney. Re15,734; Dec. 18.
Potato digger. L. E. Waterman. 1,477,676; Dec. 18.
Pouch or package, Dispensing. J. Peterson. 1,478,355; Dec. 18.
Power-transmission apparatus. T. S. Patterson. 1,478,294; Dec. 18.
Press: *See*—
Photographic-printing press.
Pressing machine, Seam-. J. Denemark. 1,477,547; Dec. 18.
Pressing machine, Seam-. L. J. Van Guelpen. 1,478,149; Dec. 18.
Printing and distributing machine, Ticket. J. M. Zweiman. 1,478,159; Dec. 18.
Printing frame. D. W. Gray. 1,478,217; Dec. 18.
Printing surfaces, Producing. H. C. J. Deeks. 1,477,866; Dec. 18.
Profiling machine. H. Grefe. 1,478,334; Dec. 18.
Propeller, Variable. M. Schiesari. 1,478,063; Dec. 18.
Pulleys, levers, or the like, Bracket for. F. H. Gilbody. 1,478,216; Dec. 18.
Pulling-over machine. H. D. Webb. 1,477,859; Dec. 18.
Pump. J. M. Hopwood and B. Bannister. 1,478,228; Dec. 18.
Pump. W. M. Thompson. 1,478,267; Dec. 18.
Pump, Engine-testing. A. L. Zimmerman. 1,477,796; Dec. 18.
Pumps, Tube support for deep-well. J. Penrod and R. D. Thompson. 1,477,714; Dec. 18.
Pumping device. W. Pool. 1,477,850; Dec. 18.
Quantifying mechanism. H. E. Ruckert and G. P. Mallory. 1,478,145; Dec. 18.
Rack: *See*—
Cue rack.
Radial drills, Safety device for. W. T. Sears. 1,477,598–9; Dec. 18.
Radiators, Upper hose connection for. M. Witte. 1,477,924; Dec. 18.
Radio apparatus, Coil mounting for. I. Greenwald. 1,477,822; Dec. 18.
Radio receiving system. L. de Forest. 1,478,029; Dec. 18.
Radio receiving system. J. Mills. 1,478,047; Dec. 18.
Rail-breaking machine. D. H. and A. Miller. 1,477,582; Dec. 18.
Rail joint. E. E. August. 1,477,990; Dec. 18.
Rail joint and splice. J. White. 1,478,081; Dec. 18.
Rail, Road. O. B. Pulis. 1,477,767; Dec. 18.
Rails, Creep check for. K. F. Elers. 1,477,637; Dec. 18.

Railway-crossing signal. R. J. Dougherty. 1,477,697; Dec. 18.
Railway rail. C. Allison. 1,478,161; Dec. 18.
Railway tie. J. T. Clark. 1,477,540; Dec. 18.
Railway-track construction. H. H. Diehl. 1,478,107; Dec. 18.
Rake. P. C. Veinot. 1,477,612; Dec. 18.
Ratchet mechanism. T. J. Fegley and G. O. Leopold. 1,478,212; Dec. 18.
Razor. R. R. Adams. 1,478,160; Dec. 18.
Razor blades, Stropping holder for safety-. P. E. Shee. 1,477,721; Dec. 18.
Receptacle and holding and locking means therefor. T. B. Wright. 1,478,365; Dec. 18.
Receptacle closure and making the same. I. J. Celona. 1,478,171; Dec. 18.
Refractory, Manufacturing new and improved high. C. J. Crawford. 1,477,810; Dec. 18.
Refrigerating apparatus. A. P. Anderson. 1,478,162; Dec. 18.
Registering mechanism. A. Stuber. 1,478,010; Dec. 18.
Relay. E. D. Mead. 1,478,045; Dec. 18.
Relay. H. W. Nichols. 1,478,051; Dec. 18.
Repeating attachment. H. L. Miller. 1,477,658; Dec. 18.
Resin and preparation, Artificial. C. Ellis. 1,477,870; Dec. 18.
Retort for destructive evolution and oxidation. C. F. Ott. 1,478,247; Dec. 18.
Rim, Demountable. W. R. Coulson. 1,478,103; Dec. 18.
Ring: *See*—
Piston ring.
Ring gauge, Adjustable. B. H. Blood. 1,477,534; Dec. 18.
Rivet holder. J. Matonick. 1,477,579; Dec. 18.
Rock drills, Oiling device for. C. C. Hansen. 1,478,220; Dec. 18.
Rod straightening and testing device, Connecting. J. S. Buckwalter. 1,477,688; Dec. 18.
Roll cutter. M. Clark. 1,477,693; Dec. 18.
Rolls, Cover for ironing. H. M. Horne. 1,478,229; Dec. 18.
Rolling mill. F. Wille. 1,477,616; Dec. 18.
Roof, Metallurgical furnace. C. J. Crawford. 1,477,811; Dec. 18.
Roosting device, Anti-sparrow. M. J. Noonan. 1,478,139; Dec. 18.
Rotary drier. A. J. Grindle. 1,477,823; Dec. 18.
Rotary engine. E. C. Groves. 1,477,950; Dec. 18.
Rotary engine. G. Pagonis. 1,478,352; Dec. 18.
Rotary ventilator. L. B. Sharpnack. 1,477,669; Dec. 18.
Rubber, Vulcanizing. H. A. Winkelmann and H. Gray. 1,478,088; Dec. 18.
Rudder bar. O. W. Timm. 1,478,308; Dec. 18.
Running board extension. J. H. Eaton. 1,478,031; Dec. 18.
Safety device. D. W. Bunker. 1,477,537; Dec. 18.
Safety lock. A. S. Capdevila. 1,478,274; Dec. 18.
Sandwiches, Device for making. R. O. Fraser. 1,478,113; Dec. 18.
Sash hanger, Storm-. A. B. Hays. 1,477,953; Dec. 18.
Sawing machine. J. W. Oliver. 1,478,052; Dec. 18.
Scale frame. W. F. Stimpson. Des. 63,593; Dec. 18.
Screen: *See*—
Multicolored screen. Window screen.
Screens integral with moving-picture films, Polychromatic. I. Kitsee. 1,477,883; Dec. 18.
Screens, Producing multicolored. I. Kitsee. 1,477,880; Dec. 18.
Shade holder, Adjustable. E. G. Heath. 1,477,954; Dec. 18.
Sharpener, Knife. T. T. Graser. 1,477,820; Dec. 18.
Shaving machine. R. L. Wilcox. 1,478,313; Dec. 18.
Sheet, Form. G. A. Mayer. 1,477,581; Dec. 18.
Sheets singly from a pile of sheets, Device for removing. R. Leumann. 1,477,835; Dec. 18.
Shelf, Drain. D. M. Anderson. 1,477,799; Dec. 18.
Sheller, Hand peanut. J. T. Huston. 1,477,649; Dec. 18.
Shelling machine, Peanut-. J. T. Huston. 1,477,648; Dec. 18.
Shield, Convertible wind and glare. S. W. McCullough. 1,477,655; Dec. 18.
Ship. M. F. Hill. 1,477,646; Dec. 18.
Ships, Gauge for indicating the draft of. J. MacGregor. 1,478,288; Dec. 18.
Shipping box. D. Doody. 1,478,325; Dec. 18.
Shipping case and display rack, Combined. M. H. Connor. 1,477,634; Dec. 18.
Shipping device for articles of cylindrical shape. P. E. Gerlat. 1,477,818; Dec. 18.
Shock absorber. R. D. Hughes. 1,477,959; Dec. 18.
Shock absorber. L. C. Reed. 1,477,976; Dec. 18.
Shock absorber. R. A. Traver. 1,477,791; Dec. 18.
Shoe and arch support, Combined. E. S. A. Endrea. 1,477,750; Dec. 18.
Shoe bottoms, Means for attaching heels to. F. Riccioli. 1,478,144; Dec. 18.
Shoe-relasting machine. L. J. Van Guelpen. 1,478,151; Dec. 18.
Shoe-shining device. J. S. Reilly and F. R. Lynch. 1,477,594; Dec. 18.
Shoes, Metallic heel for. B. Prebiuda. 1,478,143; Dec. 18.
Shoes, Wedge attachment for. G. Heitler. 1,477,825; Dec. 18.
Shovel and hoe, Combined. E. H. Cooney, H. C. Eklund, and S. T. Wiprud. 1,478,204; Dec. 18.
Sifter, Ash. J. Storey. 1,478,266; Dec. 18.
Signal: *See*—
Railway-crossing signal.
Signal-receiving system and method. R. E. Hall. 1,477,645; Dec. 18.
Signals, Coil cut-out for wigwag. M. S. Morse. 1,477,889; Dec. 18.
Signaling. H. A. Affel. 1,477,528; Dec. 18.
Signaling system. J. C. Field. 1,478,005; Dec. 18.
Signaling system. J. B. Harlow. 1,478,008; Dec. 18.
Signaling system, High-frequency. C. W. Rice. 1,477,899; Dec. 18.
Silencer, Exhaust. D. Farrand. 1,477,816; Dec. 18.
Skiving machines, Bearing-. G. H. Diehl, jr. 1,477,945; Dec. 18.
Slip and elevator, Toothless. J. E. Lebus. 1,477,709; Dec. 18.
Sludge-discharge apparatus for boiler-washout systems, Automatic. F. W. Miller. 1,478,132; Dec. 18.
Smokejack. B. S. Snow. 1,478,263; Dec. 18.
Smoker. C. F. Bremer. 1,477,993; Dec. 18.
Soap and toothbrush holder, Combination. S. D. Baker. Des. 63,549; Dec. 18.
Soldering iron, Electric. E. Young. 1,478,319; Dec. 18.
Solutions to obtain solid constituents thereof separated in a coarse condition, Treating. I. Isaachsen. 1,478,337; Dec. 18.
Sound amplifying projector. E. Grissinger. 1,477,555; Dec. 18.
Sound-projecting apparatus and method. E. Grissinger. 1,477,556; Dec. 18.
Sound projector. E. Grissinger. 1,477,554; Dec. 18.
Sound, Method and means for amplifying and projecting. E. Grissinger. 1,477,553; Dec. 18.
Sound-reproducing machine. C. R. Krueger. 1,477,832; Dec. 18.
Spark plug. L. Morel. 1,478,135; Dec. 18.
Spark plug. V. F. Mulkey. 1,478,292; Dec. 18.
Spark-plug. T. P. Peterson. 1,477,715; Dec. 18.
Spark plug. M. P. Sullivan. 1,477,784; Dec. 18.
Speed controller. J. M. Barr. 1,477,862; Dec. 18.
Spindle. B. O. Isom. 1,478,338; Dec. 18.
Spindle drill, Multiple-. V. A. Root. 1,477,851; Dec. 18.
Spindle machine, Multiple-. F. A. Moore. 1,477,888; Dec. 18.
Spindle mounting. R. A. and H. Münzenmaier. 1,478,048; Dec. 18.
Spiral separator and separating materials. F. Pardee. 1,477,849; Dec. 18.
Spiral tube, Flexible. A. H. Dolge and C. F. Hendricks. 1,477,695; Dec. 18.
Spool-tension device. E. R. Holmes. 1,479,958; Dec. 18.
Spool unwinder. R. K. Clark and E. W. Kroepel. 1,478,364; Dec. 18.
Spoon or similar article. S. V. James. Des. 63,558; Dec. 18.
Spring clip. E. Steigerwald and F. L. H. Pfeil. 1,477,605; Dec. 18.
Spotlight. F. A. King. 1,477,961; Dec. 18.
Spotlight bracket. N. J. Weir. 1,478,154; Dec. 18.
Stair platform and landing. A. J. Hall. 1,478,277; Dec. 18.
Stamp, Time. P. Mansel. 1,477,972; Dec. 18.
Stand: *See*—
Detector stand.
Starting and lighting system. F. Allison. 1,478,196; Dec. 18.
Steam deflector. F. B. Church. 1,477,996; Dec. 18.
Steering apparatus, Automatic. E. E. Winkley. 1,478,195; Dec. 18.
Steering gear. P. S. Bauer. 1,478,013; Dec. 18.
Steering wheel. E. C. Stenberg. 1,477,727; Dec. 18.
Sterilizing apparatus. O. H. Hansen. 1,478,221; Dec. 18.
Sterilizing apparatus. O. H. Hansen. 1,478,223; Dec. 18.
Stencil and marking brush, Fountain. W. C. Marsh. 1,477,578; Dec. 18.
Stereotype printing plate. H. A. W. Wood. 1,477,620; Dec. 18.
Stereotype printing plate, Tubular. H. A. W. Wood. 1,477,619; Dec. 18.
Stool or chair, Folding. C. J. Koenig. 1,477,652; Dec. 18.
Stone picker. T. Ortmann. 1,478,142; Dec. 18.
Stop mechanism. A. B. Fowler. 1,477,699; Dec. 18.
Stove and radiator therefor, Heating. A. L. Zwisler. 1,477,681; Dec. 18.
Stove, Camp. F. W. Kohl. 1,477,831; Dec. 18.
Strap wrench. W. A. Ellison. 1,478,110; Dec. 18.
Sulpho compound and its production. E. M. Johansen. 1,477,829; Dec. 18.
Sulphur from spent oxide from gas plants, Extracting. A. Given. 1,478,180; Dec. 18.
Switch: *See*—
Electric switch. Trolley switch.
Motor-starting switch. Unit switch.
Switch plug. J. B. Downing. 1,478,207; Dec. 18.
Swivel, Hydraulic. L. J. Black. 1,478,097; Dec. 18.
Synchronization, Apparatus for. H. A. Johnson. 1,478,230; Dec. 18.
Table: *See*—
Folding table.
Tackle block. L. E. Fishback. 1,477,639; Dec. 18.

Tank deck, Liquid-sealed. C. R. Gallagher. 1,478,359; Dec. 18.
Tanks, Antisplash device for. J. Baudino. 1,477,746; Dec. 18.
Tanks, Automatic hot-water supply for. S. Otis. 1,478,246; Dec. 18.
Tanks, Gauge and filler spout for gasoline. W. H. Stephenson. 1,477,728; Dec. 18.
Target. A. N. Porter. 1,478,250; Dec. 18.
Telephone and other cords, Nontwisting device for. J. E. Simpson. 1,478,069; Dec. 18.
Telephone and telegraph system, Combined. H. P. Clausen. 1,478,024; Dec. 18.
Telephone-circuit breaker. W. A. Brockmeier. 1,477,939; Dec. 18.
Telephone-exchange system. C. W. Keckler. 1,478,037; Dec. 18.
Telephone-exchange system. S. B. Williams, jr. 1,478,086; Dec. 18.
Telephone-receiver attachments. G. K. Thompson. 1,477,609; Dec. 18.
Telephone system. W. W. Carpenter and H. Hovland. 1,478,022; Dec. 18.
Telephone system. W. H. Harrison. 1,477,874; Dec. 18.
Telephone-transmitter mouthpiece. L. Van Rutten. 1,478,074; Dec. 18.
Thermometer case. A. C. D. McClellan. 1,478,286; Dec. 18.
Thermometers and similar instrument. H. Schlaich. 1,478,258; Dec. 18.
Thermostatic signal-operating device. F. G. Whittington. 1,478,084; Dec. 18.
Thigh guard. W. T. Stall. 1,478,184; Dec. 18.
Thiocarbanilide derivative. C. W. Bedford and R. L. Sibley. 1,477,803; Dec. 18.
Thiocarbanilide, Production of. C. W. Bedford and R. L. Sibley. 1,477,804; Dec. 18.
Threadless bolt. P. Balla2. 1,478,093; Dec. 18.
Ticket strip, Marking. A. K. Marsh. 1,478,130; Dec. 18.
Tie: *See*—
Railway tie.
Tie-member-fastening device. O. B. Pulis. 1,477,766; Dec. 18.
Ties from railway tracks, Device for removing. O. J. Mendenhall. 1,478,346; Dec. 18.
Tire, Pneumatic. A. B. Schleicher. Des. 63,590; Dec. 18.
Tire, Resilient. E. G. Hulse. 1,477,564; Dec. 18.
Tire, Solid-tread pneumatic. B. J. Whitcomb. 1,478,156; Dec. 18.
Tire tread. E. B. Germain. Des. 63,556; Dec. 18.
Tire tread. L. G. Nassoly. Des. 63,578; Dec. 18.
Tire tread. C. J. Venn. Des. 63,599; Dec. 18.
Tire valve. O. W. Eastburn, jr. 1,478,002; Dec. 18.
Tire valves, Dust cap for. E. H. Parker. 1,478,055; Dec. 18.
Tire valves, Dust cap for pneumatic-. A. F. Nelson. 1,478,245; Dec. 18.
Tires, Antiskid device for pneumatic. R. E. Pye. 1,478,059; Dec. 18.
Tobacco cartridges, Box or container for. B. Baron and G. F. Bull. 1,478,165; Dec. 18.
Toboggan. I. E. Matheson. 1,478,345; Dec. 18.
Toothbrush and making it. H. Karl. 1,477,706; Dec. 18.
Towel. F. A. Flather. 1,478,112; Dec. 18.
Toy. A. Victor. 1,478,191; Dec. 18.
Toy animal and making same. L. Myers. 1,478,348; Dec. 18.
Toy dog. E. C. Sellors. Des. 63,591; Dec. 18.
Toy, Mechanical. H. A. Okel. 1,478,350; Dec. 18.
Tractor. E. H. Lichtenberg. 1,477,571; Dec. 18.
Tractors, Sweep rake for. B. A. Spinney. 1,477,919; Dec. 18.
Traction device. J. G. Stokes. 1,477,983; Dec. 18.
Train-control system. I. A. and J. C. Call. 1,478,273; Dec. 18.
Tramcars, Trolley head for electric. F. Sharp and J. Martin. 1,477,720; Dec. 18.
Transfer mechanism. C. O. Petitjean. 1,478,356; Dec. 18.
Transformer and application of the same to heating. H. E. Snodgrass and T. M. Hunter. 1,478,262; Dec. 18.
Transmission. V. R. Carter. 1,477,628; Dec. 18.
Transmission and bearing, Resilient. B. F. Seymour. 1,477,908–12; Dec. 18.
Trap: *See*—
Pigeon trap.
Trap. A. Marengo. 1,478,238; Dec. 18.
Tray, Spiritual-mass card. S. H. Leavenworth. Des. 63,565; Dec. 18.
Treating materials, Process of and apparatus for. H. D. Rankin. 1,477,664; Dec. 18.
Trenching machines, Side cutter for. R. Brown. 1,477,940; Dec. 18.
Trimming mechanism. R. L. Wilcox. 1,478,314; Dec. 18.
Trip hook. O. J. McGowan. 1,477,836; Dec. 18.
Trolley. J. T. Welsh. 1,478,311; Dec. 18.
Trolley-frog device, Adjustable. H. A. Pharo. 1,478,057; Dec. 18.
Trolley shoe. R. J. Lyle. 1,477,575; Dec. 18.
Trolley switch. G. W. Bower. 1,477,807; Dec. 18.
Trunk bolt. L. W. Christophel. 1,477,692; Dec. 18.
Trunks, Combined drawer-locking device and ironing board for wardrobe. B. M. Hamlin. 1,477,559; Dec. 18.
Tube: *See*—
Spiral tube. Vacuum tube.
Tubing, Flexible. A. Sundh. 1,478,185; Dec. 18.
Tunnel structure, Erector for. L. W. Anderson. 1,478,163; Dec. 18.
Turbines, Guide vane for hydraulic. J. Overn, jr. 1,478,053–4; Dec. 18.
Turnbuckle, Automatically-adjusting. A. E. Osborn. 1,477,891; Dec. 18.
Typewriter copyholder. A. S. MacDowell. 1,478,344; Dec. 18.
Typewriting machine. A. G. F. Kurowski. 1,478,235; Dec. 18.
Typographic embossing machine. F. De Minico. 1,478,030; Dec. 18.
Undergarment. H. F. Geist. 1,478,006; Dec. 18.
Undergarment. C. A. Sus Strong. 1,478,147; Dec. 18.
Underreamer. M. M. Sweetman. 1,478,306; Dec. 18.
Unit switch, Multiple-. H. T. Martin. 1,478,042; Dec. 18.
Universal clasp G H. Schneider. 1,477,597; Dec. 18.
Universal joint. A. Dina. 1,478,324; Dec. 18.
Utensil hanger. A. E. Eaton. 1,478,209; Dec. 18.
Vacuum tube. H. J. van der Bijl. 1,478,072; Dec. 18.
Vacuum tube. W. Wilson. 1,478,087; Dec. 18.
Valve. D. W. Slattery. 1,477,722; Dec. 18.
Valve, Ball. G. C. Kear. 1,478,125; Dec. 18.
Valve for feed-water supply to steam generators. A. Baxter. 1,478,320; Dec. 18.
Valve for flush tanks, Supply. J. M. Sikes and C. Elmore. 1,477,916; Dec. 18.
Valve for powder distributors. C. J. Wotier. 1,477,741; Dec. 18.
Valve for radiators, Vent. E. E. Decker. 1,478,028; Dec. 18.
Valve for water gauges, Safety. J. P. Wulff. 1,477,743; Dec. 18.
Valve-operating mechanism. F. A. Porell. 1,477,897; Dec. 18.
Valve, Snap-acting gas-control. A. W. Francis. 1,477,641; Dec. 18.
Valve, Snap-acting gas-control. C. H. Hook. 1,477,647; Dec. 18.
Valves, Automatic closing attachment for. F. L. Crampton. 1,477,809; Dec. 18.
Vapors, Apparatus for condensing distilled. G. de Béthune. 1,478,206; Dec. 18.
Vaporizer. M. O. Smith. 1,477,724; Dec. 18.
Vault-closure structure. J. H. Williams. 1,478,085; Dec. 18.
Vehicle. F. P. Griffith, J. Lindsay, and H. G. Geoghegan. 1,477,949; Dec. 18.
Vehicle body suspension. B. F. Seymour. 1,477,914; Dec. 18.
Vehicle, Child's. W. Klinge. 1,477,830; Dec. 18.
Vehicle seat construction. F. J. Pitcole. 1,477,589; Dec. 18.
Vehicle top. M. S. Baldwin. 1,477,623; Dec. 18.
Vehicle top. J. Galamb. 1,477,751; Dec. 18.
Vehicle towing frame. W. Lorenz. 1,478,041; Dec. 18.
Vehicle wheel. S. L. Greene. 1,477,948; Dec. 18.
Vehicle wheel, Metallic. W. S. Mason. 1,478,291; Dec. 18.
Vehicle wheels, Demountable spring rim for. J. Arrenbrecht. 1,478,197; Dec. 18.
Vehicle wheels, Auxiliary tread for pneumatic-tired. 1,477,661; Dec. 18.
Vehicles, Direction signal for motor. T. E. Clark. 1,478,174; Dec. 18.
Vehicles, Sectional radiator for motor. R. J. O'Brien. 1,477,845; Dec. 18.
Ventilator: *See*—
Kitchen ventilator. Rotary ventilator.
Ventilator. A. Wenger. 1,478,312; Dec. 18.
Vinegar, Apparatus for the manufacture of. C. L. Hinkle. 1,477,957; Dec. 18.
Vulcanizers, System of control for. K. B. Kilborn and W. E. Shively. 1,477,879; Dec. 18.
Wall board. C. S. Bird. 1,477,532; Dec. 18.
Wall construction. M. J. Doner. 1,477,632; Dec. 18.
Wall construction. J. F. C. Lynch. 1,478,127; Dec. 18.
Warp and jack thread-break-stopping device. E. A. Black. 1,478,016; Dec. 18.
Warping process. C. Whitlock. 1,478,082; Dec. 18.
Washboard. M. M. Dessau. 1,478,177; Dec. 18.
Washing machine. C. F. Staples. 1,477,780; Dec. 18.
Washing machine. A. Tauscher. 1,477,854; Dec. 18.
Washing machines, Agitator for. P. F. Schneider. 1,478,182; Dec. 18.
Watchcase. J. Lasko. 1,477,569; Dec. 18.
Watchcase. V. Ritschard. Des. 63,561; Dec. 18.
Water meter. G. A. Bissell. 1,477,748; Dec. 18.
Water wheel. W. Hackett. 1,477,558; Dec. 18.
Waterproof electric fitting. R. B. Benjamin. 1,478,167; Dec. 18.
Waterproof overgarment. H. C. Toeppen. 1,477,856; Dec. 18.
Wear-resisting body. N. H. Adams. 1,477,797; Dec. 18.
Weed eradicator and soil pulverizer, Noxious. F. Strobach. 1,478,305; Dec. 18.
Weighing machine, Batter-. P. J. Baur. 1,478,199; Dec. 18.
Welded joint. M. P. Wetmore. 1,477,618; Dec. 18.
Welding metals, Method of and apparatus for. G. O. Carter and R. C. Pierce. 1,477,538; Dec. 18.

Welding, Method of and apparatus for electric. H. E. Snodgrass and T. M. Hunter. 1,478,302; Dec. 18.
Welding or forging apparatus, Electric. I. W. Henry. 1,478,225; Dec. 18.
Well casings, Wrench for oil-. C. A. Butler. 1,478,020; Dec. 18.
Well-drilling apparatus. H. C. Hirschfeld and R. S. Mayer. 1,477,563; Dec. 18.
Wheel: *See*—
Metal wheel. Vehicle wheel.
Steering wheel. Water wheel.
Wheel. B. F. Seymour. 1,477,915; Dec. 18.
Wheel rim. C. E. Linn. 1,477,572; Dec. 18.
Wheel rim and tire. J. Berkel. 1,478,321; Dec. 18.
Wheel-turning device, Band-. R. W. Sage. 1,478,300; Dec. 18.
Wheels, Tape for. J. Olson. 1,477,975; Dec. 18.
Wheelbarrow. G. A. Parsons. 1,478,293; Dec. 18.
Winding apparatus. C. J. Peterson. 1,477,765; Dec. 18.
Winding machines, Cleaner and gange for. M. N. Weinstein. 1,478,153; Dec. 18.
Winding mechanism, Fabric-. R. Reiner. 1,477,595; Dec. 18.
Windmotor. J. Gardner. 1,478,214; Dec. 18.
Window. E. H. Lunken. 1,477,969; Dec. 18.
Window screen. F. E. Boehncke. 1,478,168; Dec. 18.
Wire-block stripper. E. F. Brown. 1,477,687; Dec. 18.
Wire-fence clamp. W. G. Robinson. 1,477,901; Dec. 18.
Wire-fence stretcher. W. G. Robinson. 1,477,902; Dec. 18.
Wire-gripping device. O. A. Woolley. 1,477,740; Dec. 18.
Wood-treating plants, Automatic charging and discharging apparatus for. G. B. and J. B. Shipley. 1,478,259; Dec. 18.
Wool to prepare it for manufacture, Treatment of. T. A. Coghlan. 1,478,203; Dec. 18.
Workholding device. H. S. Bergen. 1,478,096; Dec. 18.
Wrench: *See*—
Strap wrench.
Wrench. L. L. Bailey. 1,477,928; Dec. 18.
Wringer attachment. W. S. Osgood, jr. 1,477,713; Dec. 18.
Wrist pin. W. Aab. 1,477,622; Dec. 18.
Zeolite and preparing same. W. J. Hughes and A. S. Behrman. 1,477,757; Dec. 18.

CLASSIFICATION OF PATENTS

ISSUED DECEMBER 18, 1923.

NOTE.—First number=class, second number=subclass, third number=patent number.

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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A. & S. Levy Co., New York, N. Y. Dresses, women's robes and gowns, suits, coats, and waists. 177,647; Dec. 25; Serial No. 172,001; published July 3, 1923.

A/S Blyantfabrikken Viking, Copenhagen, Denmark. Pencils. 177,700; Dec. 25; Serial No. 183,131; published Oct. 9, 1923.

Abrams, Joseph, San Francisco, Calif. Shampoo. 177,760; Dec. 25; Serial No. 178,368; published Oct. 9, 1923.

Advance Automobile Accessories Corp., Chicago, Ill. Linings for transmissions and brakes. 177,836; Dec. 25.

Advance Wood Turning Co., Chicago, Ill. Electric floor and table lamps. 177,708–9; Dec. 25; Serial Nos. 164,150–1; published Oct. 9, 1923.

Ainsa, F. S., Company, Inc., El Paso, Tex. Coffee. 177,678; Dec. 25; Serial No. 156,672; published Sept. 11, 1923.

Alden Speare's Sons Co., The, Chicago, Ill. Laundry nets or bags. 177,745; Dec. 25; Serial No. 180,306; published Oct. 9, 1923.

Allingham Candy Manufacturing Company, The, Colorado Springs, Colo. Confection. 177,742; Dec. 25; Serial No. 158,912; published Oct. 2, 1923.

American Briar Pipe Company, Chicago, Ill. Cigar and cigarette holders. 177,783; Dec. 25; Serial No. 183,685; published Oct. 2, 1923.

American Chemical Manufacturing Co., The, Denver, Colo. Uric-acid solvent and blood purifier. 177,705; Dec. 25; Serial No. 164,996; published Oct. 9, 1923.

American Thread Company, The, Jersey City, N. J., and New York, N. Y. Cotton thread and yarn. 177,691; Dec. 25; Serial No. 183,640; published Oct. 2, 1923.

Andrews, H. P., Paper Company, New York, N. Y. Paper suitable for making copies from stencil impressions. 177,637; Dec. 25; Serial No. 171,402; published Oct. 9, 1923.

Andrews, H. P., Paper Company, New York, N. Y. Paper suitable for making copies from stencil impressions. 177,638; Dec. 25; Serial No. 171,406; published Oct. 9, 1923.

Angier Chemical Co., Boston, Mass. Refined petroleum for internal and external remedies for diseases. 24,051; renewed Jan. 16, 1924.

Apex Electrical Manufacturing Company, The, Cleveland, Ohio. Electrical cooking apparatus. 177,612–14; Dec. 25; Serial Nos. 182,639–41; published Sept. 18, 1923.

Arkansas Brick and Tile Co., Little Rock, Ark. Fire brick. 177,808; Dec. 25.

Arit, Anna H., Brooklyn, N. Y. Rouge. 177,747; Dec. 25; Serial No. 179,512; published Oct. 9, 1923.

Armand Company, The, Des Moines, Iowa. Face and talcum powders, rouge, vanishing cream, etc. 177,798; Dec. 25.

Associated Textile Manufacturers, Inc., New York, N. Y. Manufactured textile fabrics. 177,636; Dec. 25; Serial No. 174,279; published Oct. 2, 1923.

Bach, James J., doing business as Io Thyro Chocolate Company, Milwaukee, Wis. Goiter preventive. 177,673; Dec. 25; Serial No. 180,736; published Oct. 9, 1923.

Baird, William F., doing business as William F. Baird Company, Winchester, Mass. Refrigerating vehicle bodies. 177,800; Dec. 25.

Baker, Hamilton & Pacific Company, San Francisco, Calif. Adzes, auger bits, axes, hacksaws, etc. 177,646; Dec. 25; Serial No. 170,354; published Aug. 21, 1923.

Baldwin Company, The, Cincinnati, Ohio. Pianos, player pianos, and piano players. 177,746; Dec. 25; Serial No. 180,264; published Oct. 9, 1923.

Banner Silk Knitting Mills, Inc., The, New York, N. Y. Knitted silk fabrics. 177,692; Dec. 25; Serial No. 183,621; published Oct. 2, 1923.

Banner Silk Knitting Mills, Inc., The, New York, N. Y. Knitted silk fabrics. 177,781; Dec. 25; Serial No. 183,901; published Oct. 2, 1923.

Beal, Frank P., New York, N. Y. Boxed set of equipment for a game similar to tennis. 177,807; Dec. 25.

Beckley-Ralston Co., Chicago, Ill. Radioadapters for connecting radio receiving sets to amplifying chambers of phonographs. 177,710; Dec. 25; Serial No. 163,608; published Oct. 9, 1923.

Benson, Edwin F., St. Paul, Minn. Holstein cattle, cows, and bulls. 177,787; Dec. 25.

Betterton-Rupert Coffee Co., Ashland, Ky. Roasted peanuts. 177,775; Dec. 25; Serial No. 183,904; published Oct. 9, 1923.

Birchfield, Charles A., New York, N. Y. Radio receiving apparatus and parts thereof. 177,661; Dec. 25; Serial No. 181,009; published Oct. 9, 1923.

Bishop & Company, Los Angeles, Calif. Cookies. 177,822; Dec. 25; Serial No. 182,465; published Oct. 2, 1923.

Boehringer, C. F., & Soehne, Waldhof, near Mannheim, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del. Iron derivatives of albumen. 24,228; renewed Feb. 13, 1923.

Bone Soeurs, New York, N. Y. Perfumes. 177,665; Dec. 25; Serial No. 181,171; published Oct. 9, 1923.

Bourjois, A., & Co., Inc., assignor to M. Tecla & Co., New York, N. Y. Face powder. 177,712; Dec. 25; Serial No. 112,292; published Oct. 9, 1923.

Bradford Dyers' Association, Limited, The, Bradford, England. Woolen piece goods. 177,713; Dec. 25; Serial No. 122,520; published Dec. 2, 1919.

Bradley, Milton Company, Springfield, Mass. Crayons. 177,804–5; Dec. 25.

Brocton Fruit Products Company, Brocton, N. Y. Cider and grape juice. 177,833; Dec. 25.

Brooks, J. B., & Co., assignor to J. B. Brooks and Company Limited, Birmingham, England. Leather goods. 24,657; renewed May 8, 1924.

Brooks, J. F., & Sons, Bagwell, Tex. Rheumatic oil. 177,843; Dec. 25.

Brush-On Manufacturing Company, The. (See Stoddard, Harry C.)

Buffalo Meter Company, Buffalo, N. Y. Quantity meters for measuring water, etc. 177,845; Dec. 25.

California Bottling Association, San Francisco, Calif. Alkaline nonpurgative table water. 177,784; Dec. 25; Serial No. 183,694; published Oct. 9, 1923.

California Physicians Laboratories, Oakland, Calif. Bacterial sugar used in the treatment of various pulmonary diseases. 177,758; Dec. 25; Serial No. 177,725; published Oct. 9, 1923.

Cal-Met Mfg. Co., Oakland, Calif. Sheet-metal products. 177,740; Dec. 25; Serial No. 161,034; published Oct. 9, 1923.

Canadian Consolidated Corporation, Limited, St. Catharines, Ontario, Canada. Copper-clad leading-in wire for electrical purposes. 177,741; Dec. 25; Serial No. 160,860; published Oct. 19, 1923.

Centemeri, P., & Co., New York, N. Y. Leather and fabric gloves. 177,793; Dec. 25.

Chemical Foundation, Incorporated, The. (See Boehringer, C. F., & Soehne, assignors.)

Chemical Foundation, Incorporated, The. (See Merck, Firm of E., assignor.)

Chinese Blueing Company, Detroit, Mich. Bluing for laundry use. 177,813; Dec. 25.

Christie-Williams Co., Trenton, N. J. Electric-lighting brackets and ceiling fixtures. 177,674; Dec. 25; Serial No. 180,362; published Oct. 9, 1923.

Cincinnati Brush & Mop Manufacturing Company. (See Ungerbuehler, Albert L.)

Cincinnati Lamp & Bracket Company, The, (now by change of name The Cino Auto Products Company), Cincinnati, Ohio. Spotlights. 177,711; Dec. 25; Serial No. 152,987; published Oct. 9, 1923.

Cino Auto Products Company, The. (See Cincinnati Lamp & Bracket Company.)

Claresa Chemical Works. (See Smith, J. Elmer.)

Cohn Hall Marx Co., New York, N. Y. Cotton piece goods, silk and cotton mixtures, and silk fabrics. 177,632; Dec. 25; Serial No. 173,322; published Mar. 20, 1923.

Collins & Aikman Co., Philadelphia, Pa. Velvet, velour, plush, etc. 177,670; Dec. 25; Serial No. 180,654; published Oct. 2, 1923.

Compagnie Française des Parfums d'Orsay, Paris and Puteaux, France. Toilet waters, sachets, lip sticks, etc. 177,810; Dec. 25.

Corticelli Silk Company, Florence, Northampton, Mass. Silk threads and threads of cotton and silk. 177,767; Dec. 25; Serial No. 184,384; published Oct. 2, 1923.

Crystal Waxing Company, The. (See Shelby Wax Paper Co., assignor.)

Cullander Machinery Co., Belzoni, Miss. Cotton trampers. 177,624; Dec. 25; Serial No. 182,334; published Oct. 9, 1923.

Cusack, Thomas, Company, Chicago, Ill. Electrically-illuminated signs. 177,762; Dec. 25; Serial No. 177,217; published Oct. 9, 1923.

Darrow, Frank D., doing business as The Darrow Music Company, Denver, Colo. Player pianos. 177,788; Dec. 25.

Delano, Potter & Company, Inc., Boston, Mass. Tea. 177,694; Dec. 25; Serial No. 183,559; published Oct. 9, 1923.

Diffenbacher, Mark M., Long Beach, Calif. Candles. 177,719; Dec. 25; Serial No. 158,113; published Sept. 25, 1923.

Dings Magnetic Separator Co., Milwaukee, Wis. Magnets and magnetic separators. 177,846; Dec. 25.

Dixon, Joseph, Crucible Company, Jersey City, N. J. Pencils. 177,642; Dec. 25; Serial No. 123,798; published Oct. 9, 1923.

Dodge, A. M., Inc., Stuart and Lake Worth, Fla. Beverages sold as soft drinks. 177,695; Dec. 25; Serial No. 183,443; published Oct. 9, 1923.

Doubrava & Morris, doing business as Sun Sipt Apiaries, Los Angeles, Calif. Jellies. 177,639; Dec. 25; Serial No. 172,588; published Sept. 25, 1923.

Dryol Corporation, The, Atlanta, Ga. Powdered greasing compound to be applied to bread pans, etc. 177,768; Dec. 25; Serial No. 184,395; published Oct. 9, 1923.
Duophone Syndicate Limited, The, London, England. Talking machines. 177,662; Dec. 25; Serial No. 181,015; published Oct. 9, 1923.
Eastern Specialty Company, The, Philadelphia, Pa. Electrical instruments for central-station uses. 177,725; Dec. 25; Serial No. 176,792; published Oct. 9, 1923.
Ehlenberger, George, & Co. Inc., New York, N. Y. Butter, cheese, and eggs. 177,818; Dec. 25.
Electrad Corporation of America, New York, N. Y. Variable resistance units. 177,752; Dec. 25; Serial No. 179,091; published Oct. 9, 1923.
Ellison, John B., & Sons, Philadelphia, Pa. Wool, worsted, cotton, or mixtures piece goods. 177,621; Dec. 25; Serial No. 182,536; published Oct. 9, 1923.
Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. 177,690; Dec. 25; Serial No. 184,605; published Oct. 2, 1923.
Etablissements Poulenc Frères, Paris, France. Chemical product used to convey vaccines. 177,635; Dec. 25; Serial No. 173,758; published Oct. 9, 1923.
Fansteel Products Company, Inc., North Chicago, Ill. Battery charges. 177,718; Dec. 25; Serial No. 182,966; published Oct. 9, 1923.
Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany, assignor to Winthrop Chemical Co. Inc., New York, N. Y. Pharmaceutical or dietetical compounds. 23,823; renewed Nov. 14, 1923.
Farmelectric Utilities Corporation, Woodberry, Baltimore, Md. Individual lighting plants. 177,736; Dec. 25; Serial No. 182,742; published Sept. 18, 1923.
Farnsworth Packing Co., Brooklin, Me. Canned sardines. 177,654; Dec. 25; Serial No. 167,609; published Feb. 27, 1923.
Fermé, Gabriel, Paris, France. Preparation for the treatment of syphilis. 177,750; Dec. 25; Serial No. 179,464; published Oct. 9, 1923.
Filene's, Wm., Sons Company, Boston, Mass. Hair nets. 177,739; Dec. 25; Serial No. 163,147; published Sept. 26, 1922.
Finsilver, Still & Moss, Inc., New York, N. Y. Woolen piece goods. 177,650; Dec. 25; Serial No. 172,589; published Oct. 2, 1923.
Foot, Schulze & Co., Dover, Del., and St. Paul, Minn. Men's and women's leather boots and shoes. 177,795; Dec. 25.
Forster Music Publisher, Inc., Chicago, Ill. Musical publications. 177,628; Dec. 25; Serial No. 182,094; published Sept. 11, 1923.
Fortuna Water Company. (See Meyer, Edmund.)
Fox, J. G., Seattle, Wash. Ginger ale. 177,680; Dec. 25; Serial No. 184,967; published Oct. 9, 1923.
Friedrich, John, Philadelphia, Pa. Ginger ale, sarsaparilla, and root beer. 177,685; Dec. 25; Serial No. 184,817; published Oct. 9, 1923.
Fuller, W. P., & Co. (See Whittier, Fuller & Co., assignor.)
Gabriel, C. O., & Sons, Columbus Junction, Iowa. Preparation for removing rust. 177,707; Dec. 25; Serial No. 164,161; published Oct. 9, 1923.
Gardner, P. A., Leather Works, Inc., St. Louis, Mo. Cardcases. 177,797; Dec. 25.
Gebr. Noelle, Lüdenscheid, Germany. Knives, forks, and spoons of aluminum. 177,759; Dec. 25; Serial No. 178,183; published Oct. 2, 1923.
General Tobacco Company, Louisville, Ky., and Chicago, Ill. Cigars, smoking and leaf tobacco. 177,743; Dec. 25; Serial No. 184,336; published Oct. 16, 1923.
General Tobacco Company, Louisville, Ky., and Chicago, Ill. Cigarettes, cigars, and smoking tobacco. 177,744; Dec. 25; Serial No. 184,334; published Oct. 16, 1923.
Gladding, B. F., & Co., Inc., South Otselic, N. Y. Enameled silk fly fishing lines. 177,641; Dec. 25; Serial No. 154,689; published Jan. 9, 1923.
Grauert, Ralph W., doing business as R. W. Grauert Co., New York, N. Y. Bronze, aluminum, black, white, and color stamping leaf for use on hot press. 177,729; Dec. 25; Serial No. 176,340; published Oct. 9, 1923.
Gray's Laboratory, Inc., New York, N. Y. Cleaning fluids for use on fabrics, leather goods, etc. 177,796; Dec. 25.
Hagler, Norman M., doing business as Hagler-Allen Mfg. Company, Du Quoin, Ill. Insecticide powders. 177,666; Dec. 25; Serial No. 181,394; published Oct. 9, 1923.
Halper, Victor, New York, N. Y. Medicinal preparation. 177,834; Dec. 25.
Hamilton, L. R., Reedley, Calif. Fresh grapes. 177,686; Dec. 25; Serial No. 184,611; published Oct. 9, 1923.
Hampden Paint & Chemical Co., Springfield, Mass. Material for use in concrete. 177,801; Dec. 25.
Harbison & Walker, assignor to Harbison-Walker Refractories Company, Pittsburgh, Pa. Fire brick, tile, and articles made of fire clay. 24,272–3; renewed Feb. 20, 1924.
Harrisburg Shoe Mfg. Co., Harrisburg, Pa. Shoes. 177,648; Dec. 25; Serial No. 174,390; published Sept. 18, 1923.
Hecker-Jones-Jewell Milling Company, New York, N. Y. Wheat flour. 177,721–2; Dec. 25; Serial Nos. 182,805–6; published Oct. 2, 1923.
Hecker-Jones-Jewell Milling Company, New York, N. Y. Wheat flour. 177,723; Dec. 25; Serial No. 182,808; published Oct. 2, 1923.
Heller, B., & Company, Chicago, Ill. Pudding and dessert powders, pie fillings, cocoa, etc. 177,792; Dec. 25.
Heller, B. & Company, Chicago, Ill. Pudding and dessert powders, pie fillings, cocoa, etc. 177,794; Dec. 25.
Heller, B., & Company, Chicago, Ill. Insecticide for killing fleas. 177,809; Dec. 25.
Hickok Manufacturing Company, Inc., Rochester, N. Y. Buckles. 177,816; Dec. 25.
Holland Knitting Co., Brooklyn, N. Y. Men's fashioned ties made of knitted silk. 177,618; Dec. 25; Serial No. 182,586; published Sept. 4, 1923.
Hoye, Daniel J., Detroit, Mich. Insulating separator for electrical conductors. 177,782; Dec. 25; Serial No. 183,653; published Oct. 9, 1923.
Hudson Manufacturing Company, Chicago, Ill. Flavoring extracts for food. 177,703; Dec. 25; Serial No. 165,493; published July 3, 1923.
Ideal Caramel Company, Inc. Johnson City, N. Y. Candies, candy confections, sweetmeats, and chewing gum. 177,763; Dec. 25; Serial No. 177,226; published Aug. 28, 1923.
Imlach, John S., Ottawa, Canada. Precision tools. 177,629; Dec. 25; Serial No. 182,053; published Oct. 2, 1923.
Inabine Company, The, Corsicana, Tex. Liquid preparation for the treatment of kidney, bladder, and rheumatism troubles. 177,724; Dec. 25; Serial No. 177,001; published Oct. 9, 1923.
International Silver Company, Meriden and Bridgeport, Conn. Silver plated spoons, forks, knives, etc. 177,830; Dec. 25.
Jablonower, Benjamin, New York, N. Y. Writing inks and ink powders, ink capsules and tablets. 177,675; Dec. 25; Serial No. 180,478; published Oct. 9, 1923.
Jersey Silk Mills, New York, N. Y. Silk, silk and wool, etc., piece goods. 177,649; Dec. 25; Serial No. 182,817; published Oct. 2, 1923.
Jersey Silk Mills, New York, N. Y. Silk, etc., piece goods. 177,714; Dec. 25; Serial No. 182,819; published Oct. 9, 1923.
Jersey Silk Mills, New York, N. Y. Silk, silk and cotton, etc., piece goods. 177,715; Dec. 25; Serial No. 182,821; published Oct. 2, 1923.
Johnson, Lawrence V., New York, N. Y. Handkerchiefs. 177,774; Dec. 25; Serial No. 184,245; published Oct. 2, 1923.
Johnson, Mary W., doing business as The Johnson Electric Mfg. Co., Warren, R. I. Fittings for electric conduits. 177,620; Dec. 25; Serial No. 182,542; published Sept. 18, 1923.
Johnson, Mary W., doing business as The Johnson Electric Mfg. Co., Warren, R. I. Fittings for electric conduits. 177,716; Dec. 25; Serial No. 182,823; published Sept. 18, 1923.
Johnson, William H., New York, N. Y., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Peanut butter, butter, cereals, spices, coffee, tea, chocolate, etc. 177,645; Dec. 25; Serial No. 162,932; published Aug. 21, 1923.
Kayline Company. (See Klein, Benjamin F.)
Kellum Company, The, Kansas City, Mo. Coffee. 177,777; Dec. 25; Serial No. 184,136; published Oct. 9, 1923.
Kennedy, Colin B., Company, The, St. Louis, Mo. Radio receiving sets and parts therefor. 177,671; Dec. 25; Serial No. 180,705; published Oct. 19, 1923.
Klein, Benjamin F., doing business as Kayline Company, Cleveland, Ohio. Electric-light fixtures. 177,659; Dec. 25; Serial No. 181,530; published Oct. 9, 1923.
Klein, Benjamin F., doing business as Kayline Company, Cleveland, Ohio. Electric-lighting fixtures. 177,660; Dec. 25; Serial No. 181,531; published Oct. 9, 1923.
Lagerholm, Fred E., doing business as The Rodex Company, Charlotte, N. C. Rat exterminator. 177,738; Dec. 25; Serial No. 163,586; published Oct. 9, 1923.
Lam-Té Mfg. Co., Oklahoma, Okla. Shaving lotions. 177,702; Dec. 25; Serial No. 166,142; published Oct. 9, 1923.
Landis & Gyr A.-G., Zug, Switzerland. Electrical maximum recording measuring instruments. 177,656; Dec. 25; Serial No. 181,693; published Oct. 2, 1923.
Landis & Gyr A.-G., Zug, Switzerland. Electrical recording measuring instruments. 177,657; Dec. 25; Serial No. 181,692; published Oct. 2, 1923.
Landis Machine Company, Waynesboro, Pa. Cutter heads, thread-cutting machines, and cutters therefor. 177,617; Dec. 25; Serial No. 182,593; published Oct. 9, 1923.
Lansburgh & Bro., Inc., Washington, D. C. Disk-record brush, phonographs, needles for talking machines, etc. 177,847; Dec. 25.
Larkin Co. Inc., Buffalo, N. Y. Medicated ointments or salves for external use. 177,749; Dec. 25; Serial No. 179,942; published Oct. 9, 1923.
Lauber, Benjamin, doing business as Valentine Company, Not Incorporated, Chicago, Ill. Hair preparation and tonic. 177,814; Dec. 25.
Law, Edwin F., assignor to J. E. Sherts, doing business as Sherts Cigar Company, Lancaster, Pa. Cigars. 23,874; renewed Nov. 28, 1923.
Leonard, Charles R., doing business as C. R. Leonard Company, Seattle, Wash. Carbon paper. 177,753; Dec. 25; Serial No. 179,007; published Oct. 9, 1923.

Linnenfabrieken E. J. F. Van Dissel & Zonen, Eindhoven, Netherlands. Linen, half-linen, and cotton fabrics. 177,748; Dec. 25; Serial No. 179,611; published Oct. 2, 1923.
Lonisiana Broom Manufacturers Association, New Orleans, La. Brooms. 177,633; Dec. 25; Serial No. 173,517; published Oct. 9, 1923.
Luce Cane Harvester Corporation, New York, N. Y. Harvesters and parts thereof. 177,832; Dec. 25.
McLaurin-Jones Co., Brookfield, Mass. Proofing paper. 177,778; Dec. 25; Serial No. 183,716; published Oct. 9, 1923.
Massachusetts Chocolate Company, Boston, Mass. Sweet-chocolate nut bars. 177,683; Dec. 25; Serial No. 167,479; published Feb. 6, 1923.
Matth. Hohner Akt. Ges., Trossingen, Germany. Mouth harmonicas. 177,643; Dec. 25; Serial No. 138,330; published June 12, 1923.
Mayer, L. S., Gesellschaft mit beschränkter Haftung, Frankfort-on-the-Main, Germany. Jewelry, etc. 177,653; Dec. 25; Serial No. 171,278; published Oct. 9, 1923.
Merck, Firm of E., Darmstadt, Germany, assignor to The Chemical Foundation Incorporated, Wilmington, Del. Medicinal agents for use in urinary diseases. 24,094; renewed Jan. 23, 1924.
Metro Chocolate Co., Inc., The, Brooklyn, N. Y. Milk-chocolate fruit and nut roll. 177,754; Dec. 25; Serial No. 179,050; published Sept. 25, 1923.
Meyer, Edmund, doing business as Fortuna Water Company, San Francisco, Calif. Mineral water. 177,696; Dec. 25; Serial No. 183,393; published Oct. 9, 1923.
Mifflin Chemical Corporation, Philadelphia, Pa. Preparation for bathing, rubbing, etc. 177,824; Dec. 25.
Migel, J. A., Inc., North Bergen, N. J., and New York, N. Y. Silk velvets in the piece. 177,630; Dec. 25; Serial No. 181,840; published Oct. 9, 1923.
Millersburg Reamer & Tool Co., Millersburg, Pa. Expansion reamers. 177,825; Dec. 25.
Moore Steam Turbine Corporation, Wellsville, N. Y. Steam turbines, reduction gears, etc. 177,831; Dec. 25.
Munsell Color Company, Inc., New York, N. Y. Paints and water colors, etc. 177,684; Dec. 25; Serial No. 167,577; published Feb. 13, 1923.
Nash Coffee Company, Minneapolis, Minn. Coffee. 177,651; Dec. 25; Serial No. 168,483; published Sept. 11, 1923.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Cookies and small cakes. 177,623; Dec. 25; Serial No. 182,435; published Oct. 2, 1923.
National Hair Goods Co., Chicago, Ill. Hairpins. 177,786; Dec. 25.
National Life Preserver Company (Sheridan Wyoming), Sheridan, Wyo., and New York, N. Y. Life preservers. 177,835; Dec. 25.
National Renovating & Supply Co., Kansas City, Mo. Toilet flush. 177,844; Dec. 25.
Nelson, Joseph M., Houma, La. Rheumatism medicine. 177,811; Dec. 25.
Nelson-Ricks Creamery Co., Salt Lake City, Utah. Butter. 177,819; Dec. 25.
Nestor Johnson Manufacturing Company, Chicago, Ill. Ice skates. 177,802; Dec. 25.
Nulusta Company, Baltimore, Md. Shoe polish. 177,826; Dec. 25.
O'Hern, Joseph F., assignor to J. F. O'Hern, jr., Waltham, Mass. Certain named remedies. 24,726; renewed May 15, 1924.
Ohio Brass Company, The, Mansfield, Ohio. Ears, clamps, and hangers for suspending and supporting trolley wires, etc. 177,619; Dec. 25; Serial No. 182,547; published Oct. 9, 1923.
Park Importing Co., New York, N. Y. Artificial-pearl and bead necklaces. 177,841; Dec. 25.
Park & Pollard Company, The, Boston, Mass. Publication issued on the full o' the moon. 177,669; Dec. 25; Serial No. 180,985; published Sept. 11, 1923.
Pathé-Cinéma, Anciens Etablissements Pathé Frères, Paris, France. Cameras, cinematographic projecting lanterns, stereoscopes, etc. 177,720; Dec. 25; Serial No. 158,442; published Oct. 2, 1923.
Pedigreed Products Corporation, Elmira, N. Y. Nuts and peanut butter. 177,727; Dec. 25; Serial No. 176,647; published Sept. 18, 1923.
Pepsin Syrup Co., Monticello, Ill. Preparation for the treatment of digestive disorders. 177,631; Dec. 25; Serial No. 184,148; published Oct. 23, 1923.
Pioneer Radio Corporation, Galesburg, Ill. Variometers and variocouplers. 177,616; Dec. 25; Serial No. 182,606; published Oct. 9, 1923.
Pomeroy & Van Deusen, assignor to H. M. Van Deusen Whip Co., Westfield, Mass. Whips. 21,844; renewed Oct. 4, 1922.
Premier Electric Company, Chicago, Ill. Audiofrequency transformers. 177,699; Dec. 25; Serial No. 183,162; published Oct. 9, 1923.
Qualtop Beverages Inc., Rochester, N. Y. Beverages sold as soft drinks and syrups for making the same. 177,681; Dec. 25; Serial No. 185,188; published Oct. 9, 1923.
Rae-Lite Mfg. Co., The, Baltimore, Md. Electric parking lamps. 177,735; Dec. 25; Serial No. 182,769; published Oct. 9, 1923.
Reid, Murdoch & Co., Chicago, Ill. Tea. 177,776; Dec. 25; Serial No. 183,940; published Oct. 9, 1923.
Reid, Murdoch & Co., Chicago, Ill. Tea. 177,779–80; Dec. 25; Serial Nos. 183,854–5; published Oct. 9, 1923.
Rodex Company, The. (See Lagerholm, Fred E.)
Rodgers, John M., doing business as Rodgers' Bottling Co., Vallejo, Calif. Beverages sold as soft drinks and syrups for making the same. 177,682; Dec. 25; Serial No. 185,189; published Oct. 9, 1923.
Rogers Electric Company Inc., Miles City, Mont. Electrical curling irons. 177,655; Dec. 25; Serial No. 167,830; published Oct. 9, 1923.
Rubber Process Corporation, Detroit, Mich. Chemical compound. 177,668; Dec. 25; Serial No. 180,944; published Oct. 9, 1923.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. 177,634; Dec. 25; Serial No. 173,677; published Apr. 10, 1923.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. 177,687–8; Dec. 25; Serial Nos. 184,565–6; published Oct. 2, 1923.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. 177,689; Dec. 25; Serial No. 184,523; published Oct. 2, 1923.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. 177,765; Dec. 25; Serial No. 184,520; published Oct. 2, 1923.
San Dimas Lemon Association, San Dimas, Calif. Fresh citrous fruits. 177,769; Dec. 25; Serial No. 184,296; published Oct. 9, 1923.
San Dimas Lemon Association, San Dimas, Calif. Fresh citrous fruits. 177,770; Dec. 25; Serial No. 184,297; published Oct. 9, 1923.
San Dimas Lemon Association, San Dimas, Calif. Fresh citrous fruits. 177,771; Dec. 25; Serial No. 184,299; published Oct. 9, 1923.
San Francisco Sulphur Co., San Francisco, Calif. Sulphur. 177,822–3; Dec. 25.
Schoening, M. E., Co., Inc., New York, N. Y. Violins and violin bows. 177,827; Dec. 25.
Schwartz, Bernard Cigar Corporation, Detroit, Mich. Cigars. 177,803; Dec. 25.
Schwartz, Bernard Cigar Corporation, Detroit, Mich. Cigars. 177,820; Dec. 25.
Schwartz Bros. & Co., Inc., New Orleans, La. Pocketbooks and leather suitcases. 177,790; Dec. 25.
Schwarzenbach Huber, Company, The, West Hoboken, N. J. Draperies. 177,658; Dec. 25; Serial No. 181,415; published Oct. 2, 1923.
Seneca Oil Works, Warren, Pa. Lubricating oils. 24,604; renewed Apr. 24, 1924.
Shelby Wax Paper Co., The, Shelby, Ohio, assignor to The Crystal Waxing Company, Middletown, Ohio. Sheets of wax paper in packages. 177,688; Dec. 25.
Shepard Electric Crane & Hoist Company, Montour Falls, N. Y. Electrically-operated hoisting machinery. 177,837; Dec. 25.
Sherman, Robert, New York, N. Y. Puzzles. 177,817; Dec. 25.
Sherts, J. E. (See Law, Edwin F., assignor.)
Shinola Company, Rochester, N. Y. Shoe polish. 177,840; Dec. 25.
Simmons, C. F., Medicine Co. (See Zeilin, J. H., & Co., assignor.)
Sleeper Radio Corporation, New York, N. Y. Radio receiving sets and parts thereof. 177,625; Dec. 25; Serial No. 182,271; published Oct. 9, 1923.
Smilo, Daniel, New York, N. Y. Pearls, necklaces, bracelets, and earrings. 177,728; Dec. 25; Serial No. 176,578; published Oct. 9, 1923.
Smith, J. Elmer, doing business as Claresa Chemical Works, Irwin, Pa. Rust removers, rouge, face powder, etc. 177,676; Dec. 25; Serial No. 175,528; published Oct. 9, 1923.
Snapp Bottling Co., Inc., St. Louis, Mo. Beverages sold as a soft drink. 177,842; Dec. 25.
Soap Salt Company, The, Tarentum, Pa. Powdered cleanser for general household purposes with water-softening properties. 177,785; Dec. 25.
Spayde, Harry E., and Edward B. Raup, Sunbury, Pa. Medicine for disorders of the digestive tract. 177,726; Dec. 25; Serial No. 176,923; published Oct. 9, 1923.
Stafford Mineral Springs & Hotel Co. Ltd., New Orleans, La. Natural mineral water. 24,281; renewed Feb. 27, 1924.
Standard Comfort Window Corporation, New York, N. Y. Windows and window frames. 177,839; Dec. 25.
Standard Furniture Company, assignor to Standard Furniture Co., Herkimer, N. Y. Roll-top desks. 24,368; renewed Mar. 13, 1924.
Sterling Iron Works, Inc., Stockton, Calif. Electrically-operated deep-well and turbine pumps. 177,761; Dec. 25; Serial No. 177,114; published Oct. 9, 1923.
Stero Corporation, The, Wilmington, Del. Handmade Chinese wool rugs and hair nets. 177,772; Dec. 25; Serial No. 184,191; published Oct. 2, 1923.
Stoddard, Harry C., doing business as The Brush-On Manufacturing Company, Los Angeles, Calif. Sanitary cleanser and dirt remover. 177,789; Dec. 25.

Stoddard Mill & Grain Company, Advance, Mo. Wheat flour. 177,734; Dec. 25; Serial No. 182,777; published Oct. 2, 1923.
Sullivan Machinery Company, Boston, Mass., and Chicago, Ill. Percussive drills. 177,806; Dec. 25.
Supplee-Wills-Jones Milk Company, Philadelphia, Pa. Raw milk, raw cream, pasteurized milk and cream, etc. 177,706; Dec. 25; Serial No. 164,457; published Oct. 2, 1923.
Susquehanna Silk Mills, New York, N. Y. All-silk piece goods. 177,663; Dec. 25; Serial No. 181,154; published Oct. 9, 1923.
Susquehanna Silk Mills, New York, N. Y. Silk and wool mixed piece goods. 177,664; Dec. 25; Serial No. 181,155; published Oct. 9, 1923.
Swingley Bros., Rockford and Freeport, Ill., and Beloit, Wis. Butter. 177,733; Dec. 25; Serial No. 182,781; published Oct. 2, 1923.
Symmes, Whitman, San Francisco, Calif. Electrical outlet fixtures. 177,697–8; Dec. 25; Serial Nos. 183,349–50; published Oct. 9, 1923.
Tecla, M., & Co. (See Bourjois, A., & Co., assignor.)
Thatcher, H. D., & Company, Inc., Potsdam, N. Y. Ice-cream coloring. 177,815; Dec. 25.
Thomsen Company, The, Waco, Tex. Shoe dressings. 177,679; Dec. 25; Serial No. 167,927; published Sept. 25, 1923.
Tin Decorating Company of Baltimore. (See Johnson, William H., assignor.)
Tingue, Brown & Co., New York, N. Y. Woven cotton feed ribbons for laundry machines. 177,677; Dec. 25; Serial No. 175,572; published Oct. 2, 1923.
Tozer, Beatrice C. A., London, England. Face creams, lotions, rouges, etc. 177,732; Dec. 25; Serial No. 175,576; published Oct. 9, 1923.
Trenton Milling Company, Trenton, Ill. Self-rising wheat flour. 177,737; Dec. 25; Serial No. 182,729; published Oct. 2, 1923.
U-Sal Company. (See Weaver, George E.)
Ungerbuehler, Albert L., doing business as Cincinnati Brush & Mop Manufacturing Company, Cincinnati, Ohio. Brooms. 177,701; Dec. 25; Serial No. 183,129; published Oct. 2, 1923.
United Chemical and Organic Products Co., Chicago, Ill. Steam bone mineral meal. 177,626; Dec. 25; Serial No. 182,190; published Oct. 2, 1923.
United Chemical and Organic Products Co., Chicago, Ill. Gelatin. 177,627; Dec. 25; Serial No. 182,189; published Oct. 9, 1923.
Valentino Company. (See Lauber, Benjamin.)
Valmont Mfg. Co., Inc., Brooklyn, N. Y. Powder puffs. 177,821; Dec. 25.
Van der Heyden, L., a Hauzeur, Paris, France. Organs, pianos, harps, and parts of such instruments. 177,644; Dec. 25; Serial No. 147,279; published Oct. 9, 1923.
Van Sands, Walter, doing business as Vantone Company, New York, N. Y. Phonograph-needle holders for sound boxes. 177,755; Dec. 25; Serial No. 178,482; published Oct. 9, 1923.
Van Sands, Walter, doing business as Vantone Company, New York, N. Y. Phonograph-needle holders for sound boxes. 177,757; Dec. 25; Serial No. 178,418; published Oct. 9, 1923.
Verband der Schweizerischen Stickwaren-Ausrüstunstalten, St. Gall, Switzerland. Cotton fabrics woven and finished in Switzerland. 177,693; Dec. 25; Serial No. 183,612; published Oct. 2, 1923.
Viscose Company, The, Marcus Hook, Pa. Artificial-silk yarns and threads. 177,773; Dec. 25; Serial No. 184,197; published Oct. 2, 1923.
Vita Mineral Products Company, Peoria, Ill. Mineral stock food. 177,764; Dec. 25; Serial No. 177,337; published Oct. 2, 1923.
Vogue Weaving Co. Inc., New York, N. Y. Silk and cotton ribbons. 177,791; Dec. 25.
Voss & Stern, New York, N. Y. Silk chiffon cloth. 177,766; Dec. 25; Serial No. 184,372; published Oct. 2, 1923.
Wahl Company, The, Chicago, Ill. Leads and lead containers. 177,640; Dec. 25; Serial No. 145,483; published Oct. 9, 1923.
Walnut Growers Spray Manufacturing Company, Los Angeles, Calif. Insecticide. 177,704; Dec. 25; Serial No. 165,434; published Oct. 9, 1923.
Ward Baking Company, New York, N. Y. Bread. 177,610–11; Dec. 25; Serial Nos. 182,687–8; published Oct. 2, 1923.
Washburn Crosby Company, Minneapolis, Minn. Oats, wheat cereal, bran flakes, etc. 177,829; Dec. 25.
Weaver, George E., doing business as U-Sal Company, New York, N. Y. Dental medicinal compound. 177,751; Dec. 25; Serial No. 179,503; published Aug. 21, 1923.
Webb, Thomas J., Company, Chicago, Ill. Coffee. 177,756; Dec. 25; Serial No. 178,786; published Sept. 11, 1923.
Wetherill, Geo. D., & Co., Inc., Philadelphia, Pa. Ready-mixed paints, varnishes, paint enamels, etc. 177,799; Dec. 25.
Whittier, Fuller & Co., assignor to W. P. Fuller & Co., San Francisco, Calif. White lead. 23,919; renewed Dec. 12, 1923.
Williamson Heater Company, The, Cincinnati, Ohio. Heated cabinet laundry driers. 177,667; Dec. 25; Serial No. 180,821; published Oct. 9, 1923.
Williamson Heater Company, The, Cincinnati, Ohio. Heated cabinet laundry driers. 177,672; Dec. 25; Serial No. 180,730; published Oct. 9, 1923.
Wilson Tea Co., Seattle, Wash. Tea. 177,730–1; Dec. 25; Serial Nos. 176,053–4; published Aug. 28, 1923.
Wilson Welder & Metals Company, Inc., New York, N. Y. Welding metals. 177,828; Dec. 25.
Windmill Food Products Company, New York, N. Y. French dressing. 177,652; Dec. 25; Serial No. 170,171; published Apr. 17, 1923.
Winthrop Chemical Co. (See Farbenfabriken vormals Fr. Bayer & Co., assignor.)
Wish, Fred A., Incorporated, New York, N. Y. Handkerchiefs and cotton goods in the piece. 177,615; Dec. 25; Serial No. 182,636; published Oct. 9, 1923.
Wohlfarth & Koos Co. Inc., Newark, N. J. Furniture and house-furnishing goods. 177,812; Dec. 25.
Youngstown Sheet and Tube Company, The, Youngstown, Ohio. Electric wiring. 177,717; Dec. 25; Serial No. 182,845; published Sept. 18, 1923.
Zeilin, J. H., & Co., Incorporated, Philadelphia, Pa., assignor to C. F. Simmons Medicine Co. Incorporated, St. Louis, Mo. Medicinal preparation for liver diseases. 24,258; renewed Feb. 20, 1924.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Badger, Guy E., Okemah, Okla. The Fiery Cross—The Great Ku Klux Problem. For a Game Problem. 26,710; Dec. 25.
Beaver Canning Company, Randolph, Wis. Moonstone Brand Select Sweet June Wisconsin Peas. For Canned Peas. 26,711; Dec. 25.
Beaver Canning Company, Randolph, Wis. Beaver Dam Brand Wisconsin Select Sweet June Peas. For Canned Peas. 26,712; Dec. 25.
Beaver Canning Company, Randolph, Wis. Green Tree Inn Brand Early June Wisconsin Peas. For Canned Peas. 26,713; Dec. 25.
Beaver Canning Company, Randolph, Wis. School Days Brand Wisconsin Sweet June Sweet Variety Peas Size 5. For Canned Peas. 26,714; Dec. 25.
Beaver Canning Company, Randolph, Wis. Radium Brand Select Early June Peas. For Canned Peas. 26,715; Dec. 25.
Beaver Canning Company, Randolph, Wis. Morning Bloom Brand Wisconsin Peas. For Canned Peas. 26,716; Dec. 25.
Beaver Canning Company, Randolph, Wis. Bagpipe Brand Wisconsin Select Early June Early Variety Peas Size 4. For Canned Peas. 26,717; Dec. 25.
Cuda, John, Pittsburgh, Pa. Italo French Brand Alimentary Pastes. For Macaroni. 26,718; Dec. 25.
Dickinson, Albert, Company, The, Chicago, Ill. Dickinson's Evergreen. For Grass Seed. 26,719; Dec. 25.
Gulbransen-Dickinson Co., Chicago, Ill. Gulbransen Instruction Roll, Third Edition. For Instruction Rolls for Player Pianos. 26,720; Dec. 25.
Johns, Chester T., Cucamonga, Calif. Sun Reign. For Fresh Grapes. 26,721; Dec. 25.
Kay-White Products, Inc., New York, N. Y. Scotch Bob Butter Scotch Ice Cream. For Butter-Scotch Ice Cream. 26,722; Dec. 25.
Levor, Victor, Attica, Ind. Paul Dresser. For Cigars. 26,723; Dec. 25.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Storck Baking Company, Parkersburg, W. Va. Storck's New Life Bread. For Bread. 26,724; Dec. 25.
Menasha Printing and Carton Company, Menasha, assignor to Prairie du Chien Creamery Company, Prairie du Chien, Wis. Pure Food. For Butter. 26,725; Dec. 25.
Pabst Corporation, Milwaukee, Wis. Doppel Brau Beer. For Beer. 26,726; Dec. 25.
Park & Son, Brooklyn, N. Y. California Sun-Sweetened Raisins Nuts. For Raisins and Nuts. 26,727; Dec. 25.
Prairie du Chien Creamery Company. (See Menasha Printing and Carton Company, assignor.)
Shapiro, Harry H., New York, N. Y. American Dental Emergency Kit. For a Medicated Tooth Filling. 26,728; Dec. 25.
Storck Baking Company. (See Menasha Printing and Carton Company, assignor.)
Vitomen Cereal Company, Renton, Wash. Vitomen Shreds. For Cereal. 26,729; Dec. 25.
Ward Baking Company, New York, N. Y. Ward's De Luxe Fruit Cake. For Cake. 26,730; Dec. 25.

Webb, Thomas J., Company, Chicago, Ill. Elmwood Club. For Coffee. 26,731; Dec. 25.
Webb, Thomas J., Company, Chicago, Ill. Mount Vernon. For Coffee. 26,732; Dec. 25.
Webb, Thomas J., Company, Chicago, Ill. Thomas J. Webb. For Coffee. 26,733; Dec. 25.
Wish, Fred A., Inc., New York, N. Y. Uncle Wiggily Water Colors. For Paint Boxes. 26,734; Dec. 25.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

American Bread Wrapper Company, Chicago, Ill. Frisch Fresh Feeling Bread Wrappers. For Bread Wrappers. 7,099; Dec. 25.
Badger, Guy B., Okemah, Okla. The Fiery Cross—The Great Ku Klux Problem. For a Game Problem. 7,100; Dec. 25.
Branner, Martin, New York, N. Y. Rest Assured. For Beds, Bedding, and Bedding Supplies. 7,101; Dec. 25.
Genesee Pure Food Company, The, Le Roy, N. Y. Saving Jell-O. For Jell-O, a Dessert Preparation. 7,102; Dec. 25.
Genesee Pure Food Company, The, Le Roy, N. Y. The Wedding Present. For Jell-O, a Dessert Preparation. 7,103; Dec. 25.
Genesee Pure Food Company, The, Le Roy, N. Y. The Happy Family. For Jell-O, a Dessert Preparation. 7,104; Dec. 25.
Genesee Pure Food Company, The, Le Roy, N. Y. The Figurines. For Jell-O, a Dessert Preparation. 7,105; Dec. 25.
Genesee Pure Food Company, The, Le Roy, N. Y. The Eye Is Forerunner Of The Palate. For Jell-O, a Dessert Preparation. 7,106; Dec. 25.
Palmolive Company, The, Milwaukee, Wis. Where Beauty Begins. For Palmolive Soap. 7,107; Dec. 25.
Polleys, Charles G., West Somerville, Mass. Ocean Power Products. For Machinery for the Development of Power from Tides, Currents, and Other Water Movements. 7,108; Dec. 25.
Summerour & Son, Vernon, Tex. 50-50 Cotton Seed. For Cottonseed. 7,109; Dec. 25.
Wiss, J., & Sons Co., Inc., Newark, N. J. Wiss Guarantee Tag. For Snips. 7,110; Dec. 25.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abern Shirt Mfg. Co. (See Tenenbaum, David.)
Abraham & Straus, Inc., Brooklyn, N. Y. Corsets. 186,620; Dec. 25.
Acme Varnish Works. (See Moran, Richard H.)
Adams & Jewell, Rome, N. Y. Plastic cements. 184,951; Dec. 25.
Advance Battery Mfg. Co., Louisville, Ky. Dry and storage batteries. 177,453; Dec. 25.
Advance Machine Company, Chicago, Ill. Picture-viewing machines. 185,101; Dec. 25.
American Buckle Co. (See Hertz, Felix.)
American Druggists Syndicate, Long Island City, N. Y. Perfumes, toilet waters, face cream, etc. 187,371; Dec. 25.
American Glue Company, Boston, Mass. Sandpapers and sand cloths. 187,239; Dec. 25.
American Lady Corset Co., Detroit, Mich. Corsets, brassières, girdles, etc. 183,242; Dec. 25.
American Rust Proof Co. Inc., The, New York, N. Y. Composition for treating metallic surfaces to prevent rust. 186,263; Dec. 25.
American Steel and Wire Company of New Jersey, The, Cleveland, Ohio. Cordage. 186,623; Dec. 25.
Ansted & Burk Company, The, Springfield, Ohio. Wheat flour. 184,704; Dec. 25.
Anzell, Alexander A., doing business as Specialty Manufacturing Company, Brooklyn, N. Y. Dental, optical, and surgical mirrors, etc. 187,656; Dec. 25.
Ariston Metal Company, Inc., New York, N. Y. Bearing metal. 186,578; Dec. 25.
Arkadelphia Milling Co., Arkadelphia, Ark. Stock feed. 185,355; Dec. 25.
Arnold, F. R., & Co., New York, N. Y. Perfumery extracts, toilet powders, and bath crystals. 180,166; Dec. 25.
Avery, B. F., & Sons, Louisville, Ky. Cultivator sweeps. 186,312; Dec. 25.
B. K. Laboratory, The. (See Brown, Charles J.)
Babcock, Charles B., doing business as C. B. Babcock Company, San Francisco, Calif. Gas furnaces, ranges, heating stoves, etc. 186,407; Dec. 25.
Baeder Adamson Company, Boston, Mass. Flint paper and cloth, garnet paper and cloth, etc. 188,104; Dec. 25.
Baer, Robert, doing business as Robert Baer Hat Co., Los Angeles, Calif. Hats and caps for men and boys. 179,645; Dec. 25.
Barekman, Thomas H., Paris, Ill. Medicinal preparation for barber's itch. 187,403; Dec. 25.
Barg & Foster Candy Company, Milwaukee, Wis. Confectionery. 183,814–16; Dec. 25.
Bargreen, Samuel E., doing business as Imperial Tea Co., Everett, Wash. Laundry powder. 168,507; Dec. 25.
Battle Creek Food Company, The, Battle Creek, Mich. Cereal breakfast foods, cooked bran, etc. 175,059; Dec. 25.
Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical lighting-fixture clusters. 186,583; Dec. 25.
Benzol Motor Fuel Company, The, Akron, Ohio. Fuel for internal-combustion engines. 187,792; Dec. 25.
Bernese Alps Milk Co., Stalden, Switzerland. Milk and milk products. 176,533; Dec. 25.
Best Foods, Inc., The, New York, N. Y. Hydrogenated coconut oil. 186,688–9; Dec. 25.
Bettmann-Dunlap Company, The, Cincinnati, Ohio. Leather boots and shoes. 181,005; Dec. 25.
Blake, Moffitt & Towne, San Francisco, Calif. Twine. 187,291; Dec. 25.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 187,084; Dec. 25.
Bochmann, F. A., & Co. Inc., Philadelphia, Pa. Worsted and woolen dress goods in the piece. 187,242–3; Dec. 25.
Bonnie Bonnet Company. (See Wallerstein, D. S., and Company.)
Boyt, Walter Company, Inc., Des Moines, Iowa. Harness, harness parts, nets, and sweat pads for horses. 186,629; Dec. 25.
Bradley, Milton, Company, Springfield, Mass. Crayons. 186,439; Dec. 25.
Bradley-Wise Paint Company, Los Angeles, Calif. Paints, varnishes, paint enamels, dry pigment, etc. 186,866; Dec. 25.
Brown, Charles J., doing business as The B. K. Laboratory, Kansas City, Kans. Preparation for cleaning the teeth and mouth. 180,323; Dec. 25.
Bush, William H., Wellesley Hills, Mass. Children's velocipedes. 185,693; Dec. 25.
Califelt Insulation Mfg. Co., Los Angeles, Calif. Insulating material for walls, box cars, refrigerator cars, etc. 187,710; Dec. 25.
Cammeyer, New York, N. Y. Children's leather and fabric shoes. 182,650; Dec. 25.
Canavello, Harold B., New York, N. Y. Vanity boxes. 186,944; Dec. 25.
Candy-Toy Company of America, Harrisburg, Pa. Toy balloon. 181,976; Dec. 25.
Celite Products Company, Los Angeles, Calif. Finely-divided solid material used in aiding filtration and in demulsification of liquids. 187,508; Dec. 25.
Chandler Motor Car Company, The, Cleveland, Ohio. Speed-changing transmission gearing for motor vehicles. 186,773; Dec. 25.
Chandler and Rudd Company, The, Cleveland, Ohio. Candy. 186,464; Dec. 25.
Charleston Milling & Produce Company, Charleton, W. Va. Flour. 185,955; Dec. 25.
Chlorophen Chemical Co. Inc., Elkins, W. Va. General antiseptic. 187,562; Dec. 25.
Christians, H. C., Co., Chicago, Ill. Butter. 185,566; Dec. 25.
Citrus Products Company, Chicago, Ill. Food-flavoring extracts. 184,120; Dec. 25.
Cleveland Dental Manufacturing Company, The, Cleveland, Ohio. Dental cutting tools. 162,865; Dec. 25.
Cohn & Kaplan, New York, N. Y. Ladies' and misses' hats. 183,908; Dec. 25.
Cole Manufacturing Company, Chicago, Ill. Furnaces, stoves, ranges, and heaters. 168,254; Dec. 25.
Coleman Lamp Company, The, Wichita, Kans. Gas generators. 186,695; Dec. 25.
Concentrated Products Corporation, Carlstadt, N. J., and New York, N. Y. Laundry soap. 187,150; Dec. 25.
Cook Electric Company, Chicago, Ill. Nutcrackers. 186,317; Dec. 25.
Cover, Thomas, jr., doing business as Cover & Company, Philadelphia, Pa. Sole leather. 186,630; Dec. 25.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Cramp, William, & Sons Ship & Engine Building Co., The, Philadelphia, Pa. Turbines, pumps, etc. 185,960; Dec. 25.

Cramp, William, & Sons Ship & Engine Building Co., The, Philadelphia, Pa. Turbines, pumps, hydraulic turbines, etc. 180,036; Dec. 25.

Creamery Package Mfg. Company, The, Chicago, Ill. Dairy, creamery, milk-plant, etc., machinery and appliances. 167,601–3; Dec. 25.

Crooks Brothers Millinery Company, Quincy, Ill. Ladies' and children's hats. 184,937; Dec. 25.

Darley, John W., doing business as Dreams Co., Baltimore, Md. Incense and incense candles. 187,375; Dec. 25.

Del Monte-Hickey, New York, N. Y. Camel's-hair piece goods. 174,203; Dec. 25.

Denzer & Nathan, Inc., New York, N. Y. Cotton piece goods. 184,784; Dec. 25.

Diaz, Carlos J., doing business as Les Parfums Des Courtisanes, New York, N. Y. Face powders and creams, perfumes, toilet waters, etc. 187,568–70; Dec. 25.

Diem & Wing Paper Co., The, Cincinnati, Ohio. Bond paper. 186,874; Dec. 25.

Diem & Wing Paper Co., The, Cincinnati, Ohio. Bond paper. 186,876; Dec. 25.

Diem & Wing Paper Co., The, Cincinnati, Ohio. Blasting paper. 186,880; Dec. 25.

Disston, Henry, & Sons, Incorporated, Tacony, Philadelphia Pa. Saws. 188,002; Dec. 25.

Doering Manufacturing Company, Chicago, Ill. Automobile or vehicle electric lamps. 186,222; Dec. 25.

Dowst, T. S., doing business as Dowst Bros. Co., Chicago, Ill. Miniature living-room suites, bedroom suites, dining-room sets, etc. 158,974; Dec. 25.

Dreams Co. (See Darley, John W.)

Drew, Hilda L., doing business as The Hilda Lee, Lowell, Mass. Tissue creams. 187,408; Dec. 25, 1923.

Duplan Silk Corporation, New York, N. Y. Silk piece goods. 187,208–9; Dec. 25.

Dyer, Harry B., doing business as National Safe Protector Co., Minneapolis, Minn. Noxious-gas-producing liquid for the protection of safes and the like. 182,963; Dec. 25.

Eastman Kodak Company, Rochester, N. Y. Photographic shutters. 187,097; Dec. 25.

Ederer Bros., Chicago, Ill. Candies. 174,563; Dec. 25.

Egan-Dryfoos Distributing Co., San Francisco, Calif. Shoes. 172,526; Dec. 25.

Eisenlohr, Otto, & Bros. Incorporated, Philadelphia, Pa. Cigars. 186,888; Dec. 25.

Elmer Candy Co., Inc., New Orleans, La. Candy. 179,860; Dec. 25.

Epstein, Isaac, Newark, N. J. Canned sardines. 182,204; Dec. 25.

Euclid Candy Co., The, Cleveland, Ohio. Candy. 185,513; Dec. 25.

Farish Company, The, Greenwich, Conn., and New York, N. Y. Cotton goods, denims, sheetings, bedspreads, etc. 169,164; Dec. 25.

Federal Envelope Mfg. Co., Omaha, Nebr. Envelopes. 187,412; Dec. 25.

Finlayson Flax Spinning Co., The. (See Linen Thread Company.)

Fischer, B., & Co. Inc., New York, N. Y. Coffee. 185,821; Dec. 25.

Forkapa, Milan R., doing business as M. R. Forkapa & Company, Cleveland, Ohio. Question and answer toy. 186,424; Dec. 25.

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 186,892; Dec. 25.

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 186,895–7; Dec. 25.

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 187,572–3; Dec. 25.

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 187,575; Dec. 25.

Fort Howard Paper Company, Green Bay, Wis. Toilet paper, paper napkins, towels, and tablecloths. 186,745; Dec. 25.

Fort Howard Paper Company, Green Bay, Wis. Toilet paper, paper napkins, towels, and tablecloths. 186,953; Dec. 25.

Franklin Air Compressor Works, Norristown and Trooper, Pa. Air compressors. 186,470; Dec. 25.

Frasier, Thornton & Co., Limited, Cookshire, Quebec, Canada. Pills for constipation, indigestion, heartburn, sick headache, etc. 152,744; Dec. 25.

French Chemical Company, Rochester, N. Y. Cleaning preparation for kitchen, household, and laundry uses. 188,008; Dec. 25.

Frink Creamery Company, The, Larkspur, Colo. Cheese. 186,361; Dec. 25.

Frost, George, Company, Boston, Mass. Men's garters. 181,481; Dec. 25.

Garlock Packing Company, The, Palmyra, N. Y. Packing and packing material. 160,008; Dec. 25.

Gates, Thomas B. M., New York, N. Y. Sport hair nets. 187,252; Dec. 25.

General Electric Company, Schenectady, N. Y. Decorative electric-light outfits for Christmas trees. 171,165; Dec. 25.

Gilchrist, William A., Chicago, Ill. Steam-boiler furnaces and parts thereof. 179,719; Dec. 25.

Globe Phone Manufacturing Company, Reading, Mass. Telephone apparatus and parts thereof. 149,747; Dec. 25.

Goldenberg's, Washington, D. C. Suitcases, trunks, traveling bags, etc. 170,638; Dec. 25.

Goldenberg's, Washington, D. C. Earthenware, china, and porcelain plates, table and kitchen ware. 170,644; Dec. 25.

Goldsworthy, A. Raymond, Brockton, Mass. Hand cleaner. 181,828; Dec. 25.

Gorelick S., & Sons, New York, N. Y. Handkerchiefs. 179,146; Dec. 25.

Graf, Paul L., New York, N. Y. Hair nets. 187,159; Dec. 25.

Gray, Ada B., Kansas City, Mo. Creams, complexion bags, and hand lotion. 187,621; Dec. 25.

Great States Corporation, Richmond, Ind. Water circulator for cooling systems for gasoline engines for autos. 186,052; Dec. 25.

Great States Corporation, Richmond, Ind. Water circulator for cooling systems for gasoline engines for autos. 186,504; Dec. 25.

Great Western Manufacturing Company, Laporte, Ind. Bicycles. 115,583; Dec. 25.

Green, Curtis L., doing business as C. L. Green Milling and Grain Co., Winters, Tex. Wheat flour and corn meal. 185,336; Dec. 25.

Grossman Bros. & Rea, Inc., Seattle, Wash. Fresh apples. 187,310; Dec. 25.

Gronten, Leo A., Unionville, Conn. Eggs. 179,865; Dec. 25.

Hall Projector Company, Inc., The, East Boston, Mass. Motion-picture projectors. 187,050; Dec. 25.

Hanawalt Spaulding Company, Los Angeles, Calif. Stained wooden shingles. 187,051; Dec. 25.

Hargreaves, John H., Nashua, N. H. Mayonnaise salad, French and Russian dressings. 170,882; Dec. 25.

Harris, D. P., Hardware & Manufacturing Co. Inc., New York, N. Y. Children's bicycles and velocipedes. 182,581–3; Dec. 25.

Harris, J., & Company, New York, N. Y. Fountain pens. 187,864; Dec. 25.

Health Food Distributing Company. (See Rick, James J.)

Heather Company, New York, N. Y. Face powders and creams, perfumes, toilet waters, etc. 187,420; Dec. 25.

Heather Company, New York, N. Y. Face powders and creams, perfumes, toilet waters, etc. 187,422; Dec. 25.

Heather Company, New York, N. Y. Face powders and creams, perfumes, toilet waters, etc. 187,623; Dec. 25.

Hecker-Jones-Jewell Milling Company, New York, N. Y. Wheat flour. 183,285; Dec. 25.

Hecker-Jones-Jewell Milling Company, New York, N. Y. Wheat flour. 183,475–6; Dec. 25.

Hecker-Jones-Jewell Milling Company, New York, N. Y. Wheat flour. 183,480; Dec. 25.

Hecker-Jones-Jewell Milling Company, New York, N. Y. Wheat flour. 183,877; Dec. 25.

Heimbach Baking Company, The, Allentown, Pa. Bread. 179,269; Dec. 25.

Henry & Allen, Auburn, N. Y. Wrenches. 186,474; Dec. 25.

Hermo Products Company, The. (See Tzifakis, Andrew E.)

Hertz, Felix, doing business as American Buckle Co., New York, N. Y. Bags, portfolios, pocketbooks, etc. 185,854; Dec. 25.

Hilda Lee, The. (See Drew, Hilda L.)

Holliston Mills Inc., The, Norwood, Mass. Book lacquer, varnishes, lacquers, and automobile top dressings. 185,081; Dec. 25.

Houbigant, Inc., New York, N. Y. Perfume, toilet water, face and talcum powders, etc. 187,257; Dec. 25.

Huebner, Arthur F., Bay City, Mich. Knit goods in the piece. 176,345; Dec. 25.

Hunt Brothers Packing Company, San Francisco, Calif. Canned fruits, vegetables, and fish, and dried fruits. 187,058; Dec. 25.

Hydraulic Brake Company, Los Angeles, Calif., and Detroit, Mich. Vehicle brakes. 184,941; Dec. 25.

Imperial Tea Co. (See Bargreen, Samuel E.)

Innovation Ingenuities Incorporated, New York, N. Y. Trunks, traveling bags, etc. 183,745; Dec. 25.

Ivins', J. S., Son, Inc., Philadelphia, Pa. Cookies. 186,132; Dec. 25.

Jardine, William H., Philadelphia, Pa. Ventilators. 187,679; Dec. 25.

Jones, Vess, doing business as The Whiz Co., New York, N. Y. Beverages sold as soft drinks and sirups therefor. 169,017; Dec. 25.

Kammerer, William C., doing business as Missouri Butter Company, St. Louis, Mo. Butter. 184,466; Dec. 25.

Kann, Sydney, doing business as Sydney Kann & Co., Detroit, Mich. Paper bags and baskets. 183,386; Dec. 25.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Kerfoot, Thomas, & Co., Limited, Bardsley, England. Inhalant for the relief of colds in the head. 187,424; Dec. 25.

Keystone Drain Board Co. (See Leffler, Howard.)

Kiggins & Tooker Co., New York, N. Y. Golf-score holders. 169,133; Dec. 25.

Kimble Electric Company, Chicago, Ill. Electric motors. 186,844; Dec. 25.

King, H. H., Flour Mills Company, Minneapolis, Minn. Wheat flour. 184,736; Dec. 25.

King, M. D., Milling Company, Pittsfield, Ill. Self-rising flour. 184,079–80; Dec. 25.

Kinnear Manufacturing Company, The, Columbus, Ohio. Metallic fire-resisting shutters, curtains, and doors. 163,525; Dec. 25.

Kirkpatrick, L. H., Walsenburg, Colo. Beverages sold as soft drinks. 182,756; Dec. 25.

Klein, Jack, doing business as J. Klein Co., New York, N. Y. Handkerchiefs. 186,915–16; Dec. 25.

Kroger Grocery & Baking Co., The, Cincinnati, Ohio. Canned fruits, vegetables, and salmon, and condiments. 184,926; Dec. 25.

La France Products Corporation, New York, N. Y. Non-alcoholic, maltless soft drinks. 184,973; Dec. 25.

Larus & Brother Company, Richmond, Va. Smoking tobacco. 187,226; Dec. 25.

Las-Ka Company, Inc., The, Des Moines, Iowa. Candy cup for holding ice cream and ices. 181,286; Dec. 25.

Lawrence Sales Co., Poughkeepsie, N. Y. Bottle cappers and corkers. 187,469; Dec. 25.

Lee, H. D., Flour Mills Company, The, Salina, Kans. Plain flour. 186,140; Dec. 25.

Leffler, Howard, doing business as Keystone Drain Board Co., Los Angeles, Calif. Composition drain boards and mantles, etc. 186,016; Dec. 25.

Le Montree Manufacturing Company, The, Cincinnati, Ohio. Paper bags. 188,019; Dec. 25.

Les Parfums Des Courtisanes. (See Diaz, Carlos J.)

Levin, Abraham, L., doing business as Rawhide Products Distributing Co., Kenilworth, N. J. Tire flaps for automobile tires, tire accessories, etc. 182,251; 182,251; Dec. 25.

Linen Thread Company, The, also doing business as The Finlayson Flax Spinning Co., Boston, Mass. Linen thread. 160,711; Dec. 25.

Lloyd, E. E., Paper Company, Chicago, Ill. Writing paper. 188,125; Dec. 25.

Longo, Salvator, doing business as The Sanatone Co., Brooklyn, N. Y. Laxative in candy form. 187,322; Dec. 25.

Lumen Bearing Company, Buffalo, N. Y. Bearing metal. 186,959; Dec. 25.

McBall, A. E., doing business as McCall Cigar Company, Kansas City, Mo. Cigars. 187,013; Dec. 25.

McCallum Company, Inc., The, Pittsburgh, Pa. Glazing cement. 186,918; Dec. 25.

Mallott, Johnson Co., Chicago, Ill. Canned vegetables, fruits, and fish, fruit jellies, etc. 185,025–6; Dec. 25.

Marblehead Lime Company, Chicago, Ill. Hydrated lime. 185,604; Dec. 25.

Markel, Howard, New York, N. Y. Title for heading of newspaper column or article. 185,223; Dec. 25.

Marmite Food Extract Co., Ltd., London, England. Poultry food. 183,581; Dec. 25.

Maronik, Dannel, Detroit, Mich. Banana flour. 185,979; Dec. 25.

Marston, Dudley J., Amesbury, Mass. Baseball bats. 183,658; Dec. 25.

Master Method Music Co. (See Moulton, H.)

Master Reporting Co. Inc., The, Indianapolis, Ind. Covers or binders. 141,682; Dec. 25.

Maybelline Company, Inc., Chicago, Ill. Darkener for eyebrows and eyelashes. 187,333; Dec. 25.

Mayer, F., Boot & Shoe Co., Milwaukee, Wis. Leather shoes. 186,653; Dec. 25.

Menorah Food Products Co., Inc., New York, N. Y. Sesame oil. 183,983; Dec. 25.

Miller's, Jacob, Sons Co., Philadelphia, Pa. Cotton, silk, linen, etc., piece goods. 187,687–8; Dec. 25.

Missouri Butter Company. (See Kammerer, William C.)

Mitcham Rubber Co. Ltd, The, London, England. Seamless dipped india-rubber goods. 182,984; Dec. 25.

Mohawk Glove Corporation, New York, N. Y. Ladies' silk and cotton gloves, silk underwear, and silk hosiery. 154,280; Dec. 25.

Moran, Richard H., doing business as Acme Varnish Works, Brooklyn, N. Y. Varnishes, stains, paints, and paint enamels. 183,846; Dec. 25.

Morton Brothers Inc., New York, N. Y. Upholstery and drapery textile fabrics of wool, silk, etc. 187,586; Dec. 25.

Motol Lubricants Corporation, New York, N. Y. Motor oil. 187,336–7; Dec. 25.

Moulton, H., doing business as Master Method Music Co., Pasadena, Calif. Phonograph records. 176,417; Dec. 25.

National Safe Protector Co. (See Dyer, Harry B.)

National Save The Surface Campaign Committee, doing business as Save The Surface Campaign, Philadelphia, Pa. Paint and varnish monthly periodical publication. 184,561; Dec. 25.

Newbegin Fire Appliance Company, Los Angeles, Calif. Fire extinguishers. 157,042; Dec. 25.

Ney, J. M., Company, The, Hartford, Conn. Low-fusing metal alloy. 187,479; Dec. 25.

Nitram Manufacturing Co., The, East Orange, N. J., and New York, N. Y. Linen broom twine. 187,875; Dec. 25.

Northern Packing Company, Grand Forks, N. Dak. Ham, lard, bacon, sausage, salt pork, etc. 182,667; Dec. 25.

Northern Paper Mills, Green Bay, Wis. Toilet paper. 184,357; Dec. 25.

Northwest Fruit Products Company, Salem, Oreg. Canned fruits and berries. 185,609; Dec. 25.

Novafaex Company, The, Chicago, Ill. Prepared yeast food tonic. 179,880; Dec. 25.

Novak, Jerry, South Milwaukee, Wis. Knee rests. 183,402; Dec. 25.

Ohio Instrument Mfg. Co., The, Cleveland, Ohio. Fire extinguishers and refill units for said extinguishers. 162,194; Dec. 25.

Ohio Valley Coffee Co., The, Portsmouth, Ohio. Coffee. 180,770; Dec. 25.

Omaha Paint and Glass Company, Omaha, Nebr. Paints. 118,608; Dec. 25.

Orange Mill Company, Inc., The, Coney Island, N. Y. Waffles. 181,232; Dec. 25.

Oregon Canning Company, Portland, Oreg. Canned fruits and berries. 187,340; Dec. 25.

Paracide Co. (See Sharp, Lemuel J.)

Parker, Arthur, Cairo, Ill. Preparation for the treatment of kidneys and liver. 187,384; Dec. 25.

Pennsylvania Silverware Company, Kane Borough, Pa. Soda-fountain cooling and dispensing outfits. 175,267; Dec. 25.

Petersen & Pegau Baking Co., Omaha, Nebr. Bread. 185,985; Dec. 25.

Photoplating Company, The, Minneapolis, Minn. Designs and photographs on glass, etc. 166,535; Dec. 25.

Pillsbury Flour Mills Company, Minneapolis, Minn. Flour made from wheat. 182,993; Dec. 25.

Piroxloid Products Corporation, New York, N. Y. Chinese game played with pieces. 186,757; Dec. 25.

Plver, L. T., Inc., Wilmington, Del., and New York, N. Y. Perfume and face powder. 187,385; Dec. 25.

Portage Wholesale Grocery Company, Portage, Wis. Canned vegetables and fruits, pancake flour, etc. 186,666; Dec. 25.

Powell, Bessie S., doing business as Beth Tantum, Los Angeles, Calif. Marmalade. 183,500; Dec. 25.

Powers Accounting Machine Corporation, New York, N. Y. Adding, listing, calculating, and bookkeeping machines. 186,156; Dec. 25.

Precision Adding Machine Company, Charlotte, N. C. Adding machines. 184,984; Dec. 25.

Prina, Frank R., Corporation, The, New York, N. Y. Wheat flour. 183,594; Dec. 25.

Puffer-Hubbard Manufacturing Company, Minneapolis, Minn. Child's toy wagon. 170,402; Dec. 25.

Puritan Drug Mfg. Co., The, Columbus, Ohio. Bay leaves for seasoning, rubbed sage. 146,656; Dec. 25.

Puritan Oil Corporation, St. Louis, Mo. Gasoline. 186,291; Dec. 25.

Quigley Furnace Specialties Company, Incorporated, New York, N. Y. Acid-resisting cement. 187,536; Dec. 25.

Rasch & Gainor, Baltimore, Md. Window-shade material, lace curtains, bedspreads, etc. 185,888; Dec. 25.

Rau Fastener Company, New York, N. Y. Snap fasteners. 186,568; Dec. 25.

Rawhide Products Distributing Co. (See Levin, Abraham I.)

Rick, James J., doing business as Health Food Distributing Company, New York, N. Y. Yeast extract. 187,018; Dec. 25.

Rite Form Corset Co., Inc., The, New York, N. Y. Corsets. 175,106; Dec. 25.

Rochelle Canneries, Inc., Rochelle, Ill. Canned vegetables. 187,347; Dec. 25.

Roubaix Mills, Inc., Clinton, Mass., and New York, N. Y. Piece goods made of wool. 187,541; Dec. 25.

S. M. Watch Case Co., Inc., New York, N. Y. Watchcases. 185,232; Dec. 25.

Sanatone Co., The. (See Longo, Salvator.)

Santa Cruz Coast Vegetable Co., Santa Cruz, Calif. Fresh boxed artichokes. 187,175; Dec. 25.

Save The Surface Campaign. (See National Save The Surface Campaign Committee.)

Schacht Rubber Mfg. Co., Huntington, Ind. Rubber heels. 187,229; Dec. 25.

Schafer Bakery, Inc., Savannah, Ga. Bread. 183,319; Dec. 25.

Schmidt & Ault Paper Co., York, Pa. Box board and wrapping paper. 183,505; Dec. 25.

Schoen & Yondorf Co. Inc., New York, N. Y. Dolls. 186,675–6; Dec. 25.

Schwab, Louis, doing business as Stevens & Co., New York, N. Y. Automotive mechanics' tools. 168,905; Dec. 25.

Seowcroft, John, & Sons Company, Ogden, Utah. Tea, shelled walnuts, vinegar, and tomato catchup. 182,015; Dec. 25.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Searle, C. D., and Company, Chicago, Ill. Nerve depressant. 187,645; Dec. 25.
Seidenberg, R. J., Company, Buffalo, N. Y. Cigars, cigarettes, cheroots, smoking tobacco. 185,796; Dec. 25.
Sexton, John, and Company, Chicago, Ill. Washing and scouring soap. 187,499; Dec. 25.
Seyler Medicine Co., The, Cincinnati, Ohio. Medicine for cuts, burns, sores, and bruises. 187,544; Dec. 25.
Shaffer Stores Company, Altoona, Pa. Canned corn and peas. 186,334; Dec. 25.
Sharp, Lemuel J., doing business as Paracide Co., Commerce, Ga. Remedy for itch. 187,646; Dec. 25.
Sheppard, George W., San Francisco, Calif. Parlor games. 183,724; Dec. 25.
Shim, George H., Co., Inc., The, Philadelphia, Pa. Candy. 187,268; Dec. 25.
Siebenmorgen, Herman, Olney, Ill. Cigars. 186,934; Dec. 25.
Skoog, A. Emil, New York, N. Y. Checks, bonds, securities, writing, and printing paper. 186,618; Dec. 25.
Slote & Schaffer, New York, N. Y. Ladies' belts for personal wear. 184,989; Dec. 25.
Softley, Edward W., Butte, Mont. Liquid polishing preparation for automobiles, pianos, etc. 186,969; Dec. 25.
Southern Illinois Milling Company, Murphysboro, Ill. Wheat flour. 183,779; Dec. 25.
Southwestern Milling Company Inc., The, New York, N. Y. Wheat flour. 185,384; Dec. 25.
Sparks Milling Company, Terre Haute, Ind. Wheat flour. 185,385; Dec. 25.
Special Paper Mfg. Co., New York, N. Y. Prepared tracing paper. 186,029; Dec. 25.
Specialty Manufacturing Company. (See Anzell, Alexander A.)
Spectro-Electronic Foundation, New York, N. Y. Electronic therapeutic apparatus for the treatment of various diseases. 187,069; Dec. 25.
St. Ana, Florence, Detroit, Mich. Facial bleach and beauty pack. 187,488; Dec. 25.
Standard Oil Company of New York, New York, N. Y. Edible oils. 185,321; Dec. 25.
Starrett, L. S., Company, The, Athol, Mass. Bevels, calipers, dividers, center testers, etc. 185,152; Dec. 25.
Starrett, L. S., Company, The, Athol, Mass. Brad sets, center punches, clamps, etc. 185,153; Dec. 25.
Stetson, John B., Company, Philadelphia, Pa. Felt hats and caps for men and boys. 183,637; Dec. 25.
Stevens & Co. (See Schwab, Louis.)
Stock, Mitchell B., doing business as Mitchell B. Stock Company, New Haven, Conn. Candy and cakes. 185,233; Dec. 25.
Stowe, Geo. M., jr., Buffalo, N. Y. Spraying devices for paint, sand, and cleaning solutions. 186,165; Dec. 25.
Sunnyside Milling Co., Evansville, Ind. Wheat flour. 183,677; Dec. 25.
Sussfeld, Lorsch & Schimmel, New York, N. Y. Field and opera glasses. 187,546–8; Dec. 25.
Swanston, C., & Son, Sacramento, Calif. Smoked meats, boiled ham, and lard. 187,394; Dec. 25.
Sykes, William, Limited, Horbury and London, England. Footballs, basket, soccer, and punching balls. 184,805; Dec. 25.
Turner-Gross, W. P., & Co., Inc., New York, N. Y. Semolina made of durum wheat. 183,609; Dec. 25.
Tantum, Beth. (See Powell, Bessie S.)
Taylor Candy Company, Newark, N. J. Peanut bar. 186,034; Dec. 25.
Teiulah Petralyke Company, Appleton, Wis. Visors for vehicles. 181,357; Dec. 25.
Tenebaum, David, doing business as The Aborn Shirt Mfg. Co., New York, N. Y. Dress shirts. 172,131; Dec. 25.
Texas Distributing Company, Dallas, Tex. Sweet potatoes. 184,627; Dec. 25.
Thackery, Thomas W., jr., Winnetka, Ill. Wardrobe traveling cases. 183,089; Dec. 25.
Toch Brothers, New York, N. Y. Ready-mixed paints, varnishes, and enamel paints. 161,594; Dec. 25.
Tongue-Tyer Clip Co., The, Bristol, Conn. Clips. 187,970; Dec. 25.
Transloid Products Co., The, Danbury, Conn. Transparent and translucent sheets having a gelatin or casein base. 185,268; Dec. 25.
Tuttle, William S., doing business as Tuttle Law Print, Rutland, Vt. Filling envelopes and manuscript covers. 183,524; Dec. 25.
Tzifakis, Andrew E., doing business as The Hermo Products Company, New York, N. Y. Castile soap. 187,701; Dec. 25.
United States Playing Card Company, The, East Norwood, Cincinnati, Ohio. Playing cards. 186,206; Dec. 25.
United States Playing Card Company, The, East Norwood, Cincinnati, Ohio. Playing cards. 187,704; Dec. 25.
Universal Mills, Fort Worth, Tex. Scratch feed. 184,008; Dec. 25.
Virginian Tire & Rubber Company, St. Albans, W. Va. Pneumatic tires. 186,092; Dec. 25.
Vitomen Cereal Company, Tacoma, Wash. Breakfast cereal. 182,025; Dec. 25.
Wallerstein, D. S., and Company, doing business as Bonnie Bonnet Co., Baltimore, Md. Ladies' and children's hats. 184,010; Dec. 25.
Wanamaker, John, Philadelphia, Philadelphia, Pa. Soaps. 187,234; Dec. 25.
Wanamaker, John, Philadelphia, Philadelphia, Pa. Soaps. 187,892; Dec. 25.
Ward Baking Company, New York, N. Y. Bread. 185,393; Dec. 25.
Ward Baking Company, New York, N. Y. Cakes. 184,531–3; Dec. 25.
Ward Baking Company, New York, N. Y. Bread. 185,735; Dec. 25.
Ward Baking Company, New York, N. Y. Bread and cake. 185,736; Dec. 25.
Ward, R. B., & Co., Inc., Los Angeles, Calif. Cake. 186,400; Dec. 25.
Warner Brothers Company, The, Bridgeport, Conn. Women's fitted undergarments. 184,371; Dec. 25.
Wazu Novelty Company, The, New York, N. Y. Dolls, puzzles, games, etc. 172,921; Dec. 25.
Weber Costello Co., Chicago Heights, Ill. Blackboards and blackboard stands. 182,193; Dec. 25.
Wellar and Adams, Ithaca, N. Y. Pass books and blank form cards. 184,999; Dec. 25.
Whiz Co., The. (See Jones, Vess.)
Willson Goggles, Inc., Reading, Pa. Ophthalmic mountings and parts thereof. 185,276; Dec. 25.
Willys-Overland Company, The, Toledo, Ohio. Passenger-carrying automobiles. 185,946; Dec. 25.
Winter, R., Limited, Birmingham, England. Flour, bread, biscuits, and cake. 185,325; Dec. 25.
Worthington Ball Company, The, Elyria, Ohio. Golf balls. 182,889; Dec. 25.
Wright, M. S., Company, Worcester, Mass. Mop or wiping member for attachment to a vacuum-cleaner nozzle. 175,175–6; Dec. 25.
Zichello, Filippo, New York, N. Y. Olive oil and macaroni. 186,174; Dec. 25.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 3.

Cardcases. P. A. Gardner Leather Works, Inc. 177,797; Dec. 25.
Leather goods. J. B. Brooks & Co. 24,657; renewed May 8, 1924.
Pocketbooks and leather suitcases. Schwartz Bros. & Co. 177,790; Dec. 25.
Whips. Pomeroy & Van Deusen. 21,844; renewed Oct. 4, 1922.

CLASS 4.

Cleaning fluid. Gray's Laboratory, Inc. 177,796; Dec. 25.
Cleanser and dirt remover, Sanitary. H. C. Stoddard. 177,789; Dec. 25.
Cleanser for general household purposes with water-softening properties. Soap Salt Company. 177,785; Dec. 25.
Polish, Shoe. Nulusta Company. 177,826; Dec. 25.
Polish, Shoe. Shinola Company. 177,840; Dec. 25.
Shoe dressings. Thomsen Company. 177,679; Dec. 25; Serial No. 167,927; published Sept. 25, 1923.

CLASS 6.

Bacterial sugar used in the treatment of various pulmonary diseases. California Physicians Laboratories. 177,758; Dec. 25; Serial No. 177,725; published Oct. 9, 1923.
Bluing. Chinese Blueing Company. 177,813; Dec. 25.
Chemical compound. Rubber Process Corporation. 177,668; Dec. 25; Serial No. 180,944; published Oct. 9, 1923.
Chemical product used to convey vaccines. Etablissements Poulenc Frères. 177,635; Dec. 25; Serial No. 173,758; published Oct. 9, 1923.
Coloring, Ice-cream. H. D. Thatcher & Company. 177,815; Dec. 25.
Creams, lotions, rouges, etc., Face. B. C. A. Tozer. 177,732; Dec. 25; Serial No. 175,576; published Oct. 9, 1923.
Dental medicinal compound. G. E. Weaver. 177,751; Dec. 25; Serial No. 179,503; published Aug. 21, 1923.
Goiter preventive. J. J. Bach. 177,673; Dec. 25; Serial No. 180,736; published Oct. 9, 1923.

Hair preparation and tonic. B. Lauber. 177,814; Dec. 25.
Insecticide. Walnut Growers Spray Manufacturing Company. 177,704; Dec. 25; Serial No. 165,434; published Oct. 9, 1923.
Insecticide for killing fleas. B. Heller & Company. 177,809; Dec. 25.
Insecticide powders. N. M. Hagler. 177,666; Dec. 25; Serial No. 181,394; published Oct. 9, 1923.
Iron derivatives of albumen. C. F. Boehringer & Soehne. 24,228; renewed Feb. 13, 1924.
Lotions, Shaving. Lam-Té Mfg. Co. 177,702; Dec. 25; Serial No. 166,142; published Oct. 9, 1923.
Medicinal agents. Firm of E. Merck. 24,094; renewed Jan. 23, 1924.
Medicinal preparation. V. Halper. 177,834; Dec. 25.
Medicinal preparation for liver diseases. J. H. Zellin & Co. 24,258; renewed Feb. 20, 1924.
Medicine for disorders of the digestive tract. Harry E. Spayde and Edward B. Raup. 177,726; Dec. 25; Serial No. 176,923; published Oct. 9, 1923.
Medicine, Rheumatism. J. M. Nelson. 177,811; Dec. 25.
Oil, Rheumatic. J. F. Brooks & Sons. 177,843; Dec. 25.
Ointments or salves, Medicated. Larkin Co. 177,749; Dec. 25; Serial No. 179,942; published Oct. 9, 1923.
Perfumes. Boue Soeurs. 177,665; Dec. 25; Serial No. 181,171; published Oct. 9, 1923.
Petroleum, Refined. Angier Chemical Co. 24,051; renewed Jan. 16, 1924.
Pharmaceutical or dietetical compounds. Farbenfabriken, vormals Fr. Bayer & Co. 23,823; renewed Nov. 14, 1923.
Powder, Face. A. Bourjois & Co. 177,712; Dec. 25; Serial No. 112,292; published Oct. 9, 1923.
Powders, rouge, vanishing cream, etc., Face and talcum. Armand Company. 177,798; Dec. 25.
Preparation for bathing, rubbing, etc. Mifflin Chemical Corporation. 177,824; Dec. 25.
Preparation for removing rust. C. O. Gabriel & Sons. 177,707; Dec. 25; Serial No. 164,161; published Oct. 9, 1923.
Preparation for the treatment of digestive disorders. Pepsin Syrup Co. 177,631; Dec. 25; Serial No. 184,148; published Oct. 23, 1923.
Preparation for the treatment of kidney, bladder, and rheumatism troubles. Inabine Company. 177,724; Dec. 25; Serial No. 177,001; published Oct. 9, 1923.
Preparation for the treatment of syphilis. G. Fermé. 177,750; Dec. 25; Serial No. 179,464; published Oct. 9, 1923.
Rat exterminator. F. E. Lagerholm. 177,738; Dec. 25; Serial No. 163,586; published Oct. 9, 1923.
Remedies, Certain named. J. F. O'Hern. 24,726; renewed May 15, 1924.
Rouge. A. H. Arlt. 177,747; Dec. 25; Serial No. 179,512; published Oct. 9, 1923.
Rust removers, rouge, etc. J. E. Smith. 177,676; Dec. 25; Serial No. 175,528; published Oct. 9, 1923.
Shampoo. J. Abrams. 177,760; Dec. 25; Serial No. 178,368; published Oct. 9, 1923.
Sulphur. San Francisco Sulphur Co. 177,822–3; Dec. 25.
Toilet flush. National Renovating & Supply Co. 177,844; Dec. 25.
Toilet waters, sachets, lip sticks, etc. Compagnie Française des Parfums d'Orsay. 177,810; Dec. 25.
Uric-acid solvent and blood purifier. American Chemical Manufacturing Co. 177,705; Dec. 25; Serial No. 164,996; published Oct. 9, 1923.

CLASS 8.

Cigar and cigarette holders. American Briar Pipe Company. 177,783; Dec. 25; Serial No. 183,685; published Oct. 2, 1923.

CLASS 11.

Inks and ink powders, ink capsules and tablets. B. Jablonower. 177,675; Dec. 25; Serial No. 180,478; published Oct. 9, 1923.
Paper, Carbon. C. R. Leonard. 177,753; Dec. 25; Serial No. 179,007; published Oct. 9, 1923.
Stamping leaf for use on hot press. R. W. Grauert. 177,729; Dec. 25; Serial No. 176,340; published Oct. 9, 1923.

CLASS 12.

Concrete, Material for use in. Hampden Paint & Chemical Co. 177,801; Dec. 25.
Fire brick. Arkansas Brick and Tile Co. 177,808; Dec. 25.
Fire brick, tile, and articles made of fire clay. Harbison & Walker. 24,272–3; renewed Feb. 20, 1924.
Windows and window frames. Standard Comfort Window Corporation. 177,839; Dec. 25.

CLASS 14.

Welding metals. Wilson Welder & Metals Company. 177,828; Dec. 25.

CLASS 15.

Oils, Lubricating. Seneca Oil Works. 24,604; renewed Apr. 24, 1924.

CLASS 16.

Lead, White. Whittier, Fuller & Co. 23,919; renewed Dec. 12, 1923.
Paints and water colors, etc. Munsell Color Company. 177,684; Dec. 25; Serial No. 167,577; published Feb. 13, 1923.
Paints, varnishes, paint enamels, etc. Geo. D. Wetherill & Co. 177,799; Dec. 25.

CLASS 17.

Cigarettes, cigars, and smoking tobacco. General Tobacco Company. 177,744; Dec. 25; Serial No. 184,334; published Oct. 16, 1923.
Cigars. Bernard Schwartz Cigar Corporation. 177,803; Dec. 25.
Cigars. Bernard Schwartz Cigar Corporation. 177,820; Dec. 25.
Cigars. E. F. Law. 23,874; renewed Nov. 28, 1923.
Cigars, smoking and leaf tobacco. General Tobacco Company. 177,743; Dec. 25; Serial No. 184,336; published Oct. 16, 1923.

CLASS 21.

Battery charges. Faunsteel Products Company. 177,718; Dec. 25; Serial No. 182,966; published Oct. 9, 1923.
Cooking apparatus, Electrical. Apex Electrical Manufacturing Company. 177,612–14; Dec. 25; Serial Nos. 182,639–41; published Sept. 18, 1923.
Curling irons, Electrical. Rogers Electric Company. 177,655; Dec. 25; Serial No. 167,830; published Oct. 9, 1923.
Electric conduits, Fittings for. M. W. Johnson. 177,620; Dec. 25; Serial No. 182,542; published Sept. 18, 1923.
Electric conduits, Fittings for. M. W. Johnson. 177,716; Dec. 25; Serial No. 182,823; published Sept. 18, 1923.
Electric-light fixtures. B. F. Klein. 177,659; Dec. 25; Serial No. 181,530; published Oct. 9, 1923.
Electric-lighting brackets and ceiling fixtures. Christie-Williams Co. 177,674; Dec. 25; Serial No. 180,362; published Oct. 9, 1923.
Electric-lighting fixtures. B. F. Klein. 177,660; Dec. 25; Serial No. 181,531; published Oct. 9, 1923.
Electric wiring. Youngstown Sheet and Tube Company. 177,717; Dec. 25; Serial No. 182,845; published Sept. 18, 1923.
Electrical conductors, Insulating separator for. D. J. Hoye. 177,782; Dec. 25; Serial No. 183,653; published Oct. 9, 1923.
Electrical instruments for central-station uses. Eastern Specialty Company. 177,725; Dec. 25; Serial No. 176,792; published Oct. 9, 1923.
Electrical outlet fixtures. W. Symmes. 177,697–8; Dec. 25; Serial Nos. 183,349–50; published Oct. 9, 1923.
Hoisting machinery, Electrically operated. Shepard Electric Crane & Hoist Company. 177,837; published Dec. Dec. 25.
Lamps, Electric. Advance Wood Turning Co. 177,708–9; Dec. 25; Serial Nos. 164,150–1; published Oct. 9, 1923.
Lamps, Electric parking. Rae-Lite Mfg. Co. 177,735; Dec. 25; Serial No. 182,769; published Oct. 9, 1923.
Lighting plants, Individual. Farmelectric Utilities Corporation. 177,736; Dec. 25; Serial No. 182,742; published Sept. 18, 1923.
Magnets and magnetic separators. Dings Magnetic Separator Co. 177,846; Dec. 25.
Pumps, Electrically-operated deep-well and turbine. Sterling Iron Works. 177,761; Dec. 25; Serial No. 177,114; published Oct. 9, 1923.
Radio receiving apparatus and parts thereof. C. A. Birchfield. 177,661; Dec. 25; Serial No. 181,009; published Oct. 9, 1923.
Radio receiving sets and parts therefor. Colin B. Kennedy Company. 177,671; Dec. 25; Serial No. 180,705; published Oct. 9, 1923.
Radio receiving sets and parts thereof. Sleeper Radio Corporation. 177,625; Dec. 25; Serial No. 182,271; published Oct. 9, 1923.
Radioadapters. Beckley-Ralston Co. 177,710; Dec. 25; Serial No. 163,608; published Oct. 9, 1923.
Resistance units, Variable. Electrad Corporation of America. 177,752; Dec. 25; Serial No. 179,091; published Oct. 9, 1923.
Sheet-metal products. Cal-Met Mfg. Co. 177,740; Dec. 25; Serial No. 161,034; published Oct. 9, 1923.
Signs, Electrically-illuminated. Thomas Cusack Company. 177,762; Dec. 25; Serial No. 177,217; published Oct. 9, 1923.
Spotlights. Cincinnati Lamp & Bracket Company. 177,711; Dec. 25; Serial No. 152,987; published Oct. 9, 1923.
Transformers, Audiofrequency. Premier Electric Company. 177,699; Dec. 25; Serial No. 183,162; published Oct. 9, 1923.
Trolley wires etc., Ears, clamps, and hangers for suspending and supporting. Ohio Brass Company. 177,619; Dec. 25; Serial No. 182,547; published Oct. 9, 1923.
Variometers and variocouplers. Pioneer Radio Corporation. 177,616; Dec. 25; Serial No. 182,606; published Oct. 9, 1923.
Wire for electrical purposes, Copper-clad leading-in. Canadian Consolidated Corporation. 177,741; Dec. 25; Serial No. 160,880; published Oct. 9, 1923.

CLASS 22.

Fishing lines. B. F. Gladding & Co. 177,641; Dec. 25; Serial No. 154,689; published Jan. 9, 1923.
Game, Boxed set of equipment for a. F. P. Beal. 177,807; Dec. 25.
Life preservers. National Life Preserver Company (Sheridan, Wyoming). 177,835; Dec. 25.
Puzzles. R. Sherman. 177,817; Dec. 25.
Skates, Ice. Nestor Johnson Manufacturing Company. 177,802; Dec. 25.

CLASS 23.

Adzes, auger bits, axes, etc. Baker, Hamilton & Pacific Company. 177,646; Dec. 25; Serial No. 170,354; published Aug. 21, 1923.
Cotton trampers. Cullander Machinery Co. 177,624; Dec. 25; Serial No. 182,334; published Oct. 9, 1923.
Cutter heads, thread-cutting machines, and cutters therefor. Landis Machine Company. 177,617; Dec. 25; Serial No. 182,503; published Oct. 9, 1923.
Drills, Percussive. Sullivan Machinery Company. 177,806; Dec. 25.
Harvesters and parts thereof. Luce Cane Harvester Corporation. 177,832; Dec. 25.
Knives, forks, spoons, Aluminum. Gebr. Noelle. 177,759; Dec. 25; Serial No. 178,183; published Oct. 2, 1923.
Reamers, Expansion. Millersburg Reamer & Tool Co. 177,825; Dec. 25.
Turbines, reduction gears, etc., Steam. Moore Steam Turbine Corporation. 177,831; Dec. 25.

CLASS 24.

Laundry driers, Heated cabinet. Williamson Heater Company. 177,667; Dec. 25; Serial No. 180,821; published Oct. 9, 1923.
Laundry driers, Heated cabinet. Williamson Heater Company. 177,672; Dec. 25; Serial No. 180,730; published Oct. 9, 1923.
Laundry nets or bags. Alden Speare's Sons Co. 177,745; Dec. 25; Serial No. 180,306; published Oct. 9, 1923.

CLASS 26.

Cameras, cinematographic projecting lanterns, stereoscopes, etc. Pathé-Cinéma, Anciens Établissements Pathé Frères. 177,720; Dec. 25; Serial No. 158,442; published Oct. 2, 1923.
Electrical maximum recording measuring instruments. Landis & Gyr A.-G. 177,656; Dec. 25; Serial No. 181,693; published Oct. 2, 1923.
Electrical recording measuring instruments. Landis & Gyr A.-G. 177,657; Dec. 25; Serial No. 181,692; published Oct. 2, 1923.
Meters for measuring water, etc., Quantity. Buffalo Meter Company. 177,845; Dec. 25.
Precision tools. J. S. Imlach. 177,629; Dec. 25; Serial No. 182,053; published Oct. 2, 1923.

CLASS 28.

Jewelry, etc. L. S. Mayer, Gesellschaft mit beschrankter Haftung. 177,653; Dec. 25; Serial No. 171,278; published Oct. 9, 1923.
Necklaces, Artificial pearl and bead. Park Importing Co. 177,841; Dec. 25.
Pearls, necklaces, bracelets, and earrings. D. Smilo. 177,728; Dec. 25; Serial No. 176,578; published Oct. 9, 1923.
Spoons, forks, knives, etc., Silver-plated. International Silver Company. 177,830; Dec. 25.

CLASS 29.

Brooms. Louisiana Broom Manufacturers Association. 177,633; Dec. 25; Serial No. 173,517; published Oct. 9, 1923.
Brooms. A. L. Ungerbuehler. 177,701; Dec. 25; Serial No. 183,129; published Oct. 2, 1923.

CLASS 31.

Powder puffs. Valmont Mfg. Co. 177,821; Dec. 25.
Refrigerating vehicle bodies. W. F. Baird. 177,800; Dec. 25.

CLASS 32.

Desks, Roll-top. Standard Furniture Company. 24,368; renewed Mar. 13, 1924.
Furniture and house-furnishing goods. Wohlfarth & Koos Co. 177,812; Dec. 25.

CLASS 35.

Transmission and brake linings. Advance Automobile Accessories Corp. 177,836; Dec. 25.

CLASS 36.

Harmonicas, Mouth. Matth. Hohner Akt. Ges. 177,643; Dec. 25; Serial No. 138,330; published June 12, 1923.
Organs, pianos, harps, and parts of such instruments. L. van der Heyden a Hauzeur. 177,644; Dec. 25; Serial No. 147,279; published Oct. 9, 1923.
Phonograph-needle holders for sound boxes. W. Van Sands. 177,735; Dec. 25; Serial No. 178,482; published Oct. 9, 1923.
Phonograph-needle holders for sound boxes. W. Van Sands. 177,757; Dec. 25; Serial No. 178,418; published Oct. 9, 1923.
Pianos, Player. F. D. Darrow. 177,788; Dec. 25.
Pianos, player pianos, and piano players. Baldwin Company. 177,746; Dec. 25; Serial No. 180,264; published Oct. 9, 1923.
Record brush, phonographs, needles for talking machines, etc., Disk-. Lansburgh & Bro. 177,847; Dec. 25.
Talking machines. Duophone Syndicate Limited. 177,662; Dec. 25; Serial No. 181,015; published Oct. 9, 1923.
Violins and violin bows. M. E. Schoening Co. 177,827; Dec. 25.

CLASS 37.

Crayons. Milton Bradley Company. 177,804–5; Dec. 25.
Leads and lead containers. Wahl Company. 177,640; Dec. 25; Serial No. 145,483; published Oct. 9, 1923.
Paper, Proofing. McLaurin-Jones Co. 177,778; Dec. 25; Serial No. 183,716; published Oct. 9, 1923.
Paper suitable for making copies from stencil impressions. H. P. Andrews Paper Company. 177,637; Dec. 25; Serial No. 171,402; published Oct. 9, 1923.
Paper suitable for making copies from stencil impressions. H. P. Andrews Paper Company. 177,638; Dec. 25; Serial No. 171,406; published Oct. 9, 1923.
Paper, Wax. Shelby Wax Paper Co. 177,838; Dec. 25.
Pencils. A/S Blyantfabrikken Viking. 177,700; Dec. 25; Serial No. 183,131; published Oct. 9, 1923.
Pencils. Joseph Dixon Crucible Company. 177,642; Dec. 25; Serial No. 123,798; published Oct. 9, 1923.

CLASS 38.

Musical publications. Forster Music Publisher, Inc. 177,628; Dec. 25; Serial No. 182,094; published Sept. 11, 1923.
Publication. Park & Pollard Company. 177,669; Dec. 25; Serial No. 180,985; published Sept. 11, 1923.

CLASS 39.

Boots and shoes. Foot, Schulze & Co. 177,795; Dec. 25.
Dresses, women's robes and gowns, suits, etc. A. & S. Levy Co. 177,647; Dec. 25; Serial No. 172,001; published July 3, 1923.
Gloves. P. Centemeri & Co. 177,793; Dec. 25.
Shoes. Harrisburg Shoe Mfg. Co. 177,648; Dec. 25; Serial No. 174,390; published Sept. 18, 1923.
Ties, Men's. Holland Knitting Co. 177,618; Dec. 25; Serial No. 182,586; published Sept. 4, 1923.

CLASS 40.

Buckles. Hickok Manufacturing Company. 177,816; Dec. 25.
Hairpins. National Hair Goods Co. 177,786; Dec. 25.

CLASS 42.

Cotton fabrics woven and finished in Switzerland. Verband der Schweizerischen Stickwaren-Ausrüstanstalten. 177,693; Dec. 25; Serial No. 183,612; published Oct. 2, 1923.
Cotton piece goods, silk and cotton mixtures, and silk fabrics. Cohn Hall Marx Co. 177,632; Dec. 25; Serial No. 173,322; published Mar. 20, 1923.
Draperies. Schwarzenbach Huber Company. 177,658; Dec. 25; Serial No. 181,415; published Oct. 2, 1923.
Fabrics in the piece. Salt's Textile Manufacturing Company. 177,634; Dec. 25; Serial No. 173,677; published Apr. 10, 1923.
Hair nets. Wm. Filene's Sons Company. 177,739; Dec. 25; Serial No. 163,147; published Sept. 26, 1922.
Handkerchiefs. L. V. Johnson. 177,774; Dec. 25; Serial No. 184,245; published Oct. 2, 1923.
Handkerchiefs and cotton goods in the piece. Fred A. Wish Incorporated. 177,615; Dec. 25; Serial No. 182,636; published Oct. 9, 1923.
Knitted silk fabrics. Banner Silk Knitting Mills, Inc. 177,692; Dec. 25; Serial No. 183,621; published Oct. 2, 1923.
Knitted silk fabrics. Banner Silk Knitting Mills, Inc. 177,781; Dec. 25; Serial No. 183,901; published Oct. 2, 1923.
Laundry machines, Woven cotton feed ribbons for. Tingue, Brown & Co. 177,677; Dec. 25; Serial No. 175,532; published Oct. 2, 1923.
Linen, half-linen, and cotton fabrics. Linnenfabrieken E. J. F. Van Dissel & Zonen. 177,748; Dec. 25; Serial No. 179,611; published Oct. 2, 1923.
Pile fabrics in the piece. Salt's Textile Manufacturing Company. 177,687–8; Dec. 25; Serial Nos. 184,565–6; published Oct. 2, 1923.
Pile fabrics in the piece. Salt's Textile Manufacturing Company. 177,689; Dec. 25; Serial No. 184,523; published Oct. 2, 1923.
Pile fabrics in the piece. Salt's Textile Manufacturing Company. 177,765; Dec. 25; Serial No. 184,520; published Oct. 2, 1923.
Ribbons. Vogue Weaving Co. 177,791; Dec. 25.
Rugs and hair nets, Handmade Chinese wool. Stero Corporation. 177,772; Dec. 25; Serial No. 184,191; published Oct. 2, 1923.
Silk and wool mixed piece goods. Susquehanna Silk Mills. 177,664; Dec. 25; Serial No. 181,155; published Oct. 9, 1923.

Silk, artificial-silk, etc., piece goods. Jersey Silk Mills. 177,649; Dec. 25; Serial No. 182,817; published Oct. 2, 1923.
Silk, artificial-silk, etc., piece goods. Jersey Silk Mills. 177,714; Dec. 25; Serial No. 182,819; published Oct. 9, 1923.
Silk chiffon cloth. Voss & Stern. 177,766; Dec. 25; Serial No. 184,372; published Oct. 2, 1923.
Silk piece goods. Empire Silk Company. 177,690; Dec. 25; Serial No. 184,605; published Oct. 2, 1923.
Silk piece goods, All-. Susquehanna Silk Mills. 177,663; Dec. 25; Serial No. 181,154; published Oct. 9, 1923.
Silk, silk and artificial-silk, etc., piece goods. Jersey Silk Mills. 177,715; Dec. 25; Serial No. 182,821; published Oct. 2, 1923.
Textile fabrics. Associated Textile Manufacturers, Inc. 177,636; Dec. 25; Serial No. 174,279; published Oct. 2, 1923.
Velvet, plush, etc. Collins & Aikman Co. 177,670; Dec. 25; Serial No. 180,654; published Oct. 2, 1923.
Velvets in the piece, Silk. J. A. Migel, Inc. 177,630; Dec. 25; Serial No. 181,840; published Oct. 9, 1923.
Wool, etc., goods in the piece. J. B. Ellison & Sons. 177,621; Dec. 25; Serial No. 182,536; published Oct. 9, 1923.
Woolen piece goods. Bradford Dyers' Association, Ltd. 177,713; Dec. 25; Serial No. 122,520; published Dec. 2, 1919.
Woolen piece goods. Finsilver, Still & Moss, Inc. 177,650; Dec. 25; Serial No. 172,589; published Oct. 2, 1923.

CLASS 43.

Thread and yarn, Cotton. American Thread Company. 177,691; Dec. 25; Serial No. 183,640; published Oct. 2, 1923.
Threads and threads of cotton and silk, Silk. Corticelli Silk Company. 177,767; Dec. 25; Serial No. 184,384; published Oct. 2, 1923.
Yarns and threads, Artificial-silk. Viscose Company. 177,773; Dec. 25; Serial No. 184,197; published Oct. 2, 1923.

CLASS 45.

Beverages sold as a soft drink. Snapp Bottling Co. 177,842; Dec. 25.
Beverages sold as soft drinks. A. M. Dodge, Inc. 177,695; Dec. 25; Serial No. 183,443; published Oct. 9, 1923.
Beverages sold as soft drinks and sirups for making the same. Qualtop Beverages, Inc. 177,681; Dec. 25; Serial No. 185,188; published Oct. 9, 1923.
Beverages sold as soft drinks and sirups for making the same. J. M. Rodgers. 177,682; Dec. 25; Serial No. 185,189; published Oct. 9, 1923.
Cider and grape juice. Brocton Fruit Products Company. 177,833; Dec. 25.
Ginger ale. J. G. Fox. 177,680; Dec. 25; Serial No. 184,967; published Oct. 9, 1923.
Ginger ale, sarsaparilla, and root beer. J. Friedrich. 177,685; Dec. 25; Serial No. 184,817; published Oct. 9, 1923.
Water, Alkaline nonpurgative table. California Bottling Association. 177,784; Dec. 25; Serial No. 183,694; published Oct. 9, 1923.
Water, Mineral. E. Meyer. 177,696; Dec. 25; Serial No. 183,393; published Oct. 9, 1923.
Water, Natural mineral. Stafford Mineral Springs & Hotel Co. 24,281; renewed Feb. 27, 1924.

CLASS 46.

Ward Baking Company. 177,610–1; Dec. 25; Serial Nos. 182,687–8; published Oct. 2, 1923.
Butter. Nelson-Ricks Creamery Co. 177,819; Dec. 25.
Butter. Swingley Bros. 177,732; Dec. 25; Serial No. 182,781; published Oct. 2, 1923.
Butter, cheese, and eggs. George Ehlenberger & Co. 177,818; Dec. 25.
Candies. M. M. Piffenbacher. 177,719; Dec. 25; Serial No. 158,113; published Sept. 25, 1923.
Candies, candy confections, sweetmeats, and chewing gum. Ideal Caramel Company. 177,763; Dec. 25; Serial No. 177,226; published Aug. 28, 1923.
Canned sardines. Farnsworth Packing Co. 177,654; Dec. 25; Serial No. 167,609; published Feb. 27, 1923.
Cattle, cows, and bulls, Holstein. E. F. Benson. 177,787; Dec. 25.
Chocolate fruit and nut roll, Milk. Metro Chocolate Co. 177,754; Dec. 25; Serial No. 179,050; published Sept. 25, 1923.
Chocolate nut bars, Sweet-. Massachusetts Chocolate Company. 177,683; Dec. 25; Serial No. 167,479; published Feb. 6, 1923.
Coffee. F. S. Ainsa Company. 177,678; Dec. 25; Serial No. 156,672; published Sept. 11, 1923.
Coffee. Kellum Company. 177,777; Dec. 25; Serial No. 184,136; published Oct. 9, 1923.
Coffee. Nash Coffee Company. 177,651; Dec. 25; Serial No. 168,483; published Sept. 11, 1923.
Coffee. Thomas J. Webb Company. 177,756; Dec. 25; Serial No. 178,786; published Sept. 11, 1923.
Confection. Allingham Candy Manufacturing Company. 177,742; Dec. 25; Serial No. 158,912; published Oct. 2, 1923.
Cookies. Bishop & Company. 177,622; Dec. 25; Serial No. 182,465; published Oct. 2, 1923.
Cookies and small cakes. National Biscuit Company. 177,623; Dec. 25; Serial No. 182,435; published Oct. 2, 1923.
Extracts for food, Flavoring. Hudson Manufacturing Company. 177,703; Dec. 25; Serial No. 165,493; published July 3, 1923.
Flour, Self-rising wheat. Trenton Milling Company. 177,737; Dec. 25; Serial No. 182,729; published Oct. 2, 1923.
Flour, Wheat. Hecker-Jones-Jewell Milling Company. 177,721–2; Dec. 25; Serial Nos. 182,805–6; published Oct. 2, 1923.
Flour, Wheat. Hecker-Jones-Jewell Milling Company. 177,723; Dec. 25; Serial No. 182,808; published Oct. 2, 1923.
Flour, Wheat. Stoddard Mill & Grain Company. 177,734; Dec. 25; Serial No. 182,777; published Oct. 2, 1923.
Food, Mineral stock. Vita Mineral Products Company. 177,764; Dec. 25; Serial No. 177,337; published Oct. 2, 1923.
French dressing. Windmill Food Products Company. 177,652; Dec. 25; Serial No. 170,171; published Apr. 17, 1923.
Fruits, Fresh citrous. San Dimas Lemon Association. 177,769; Dec. 25; Serial No. 184,296; published Oct. 9, 1923.
Fruits, Fresh citrous. San Dimas Lemon Association. 177,770; Dec. 25; Serial No. 184,297; published Oct. 9, 1923.
Fruits, Fresh citrous. San Dimas Lemon Association. 177,771; Dec. 25; Serial No. 184,299; published Oct. 9, 1923.
Gelatin. United Chemical and Organic Products Co. 177,627; Dec. 25; Serial No. 182,189; published Oct. 9, 1923.
Grapes, Fresh. L. R. Hamilton. 177,686; Dec. 25; Serial No. 184,611; published Oct. 9, 1923.
Greasing compound to be applied to bread pans, etc. Dryol Corporation. 177,768; Dec. 25; Serial No. 184,395; published Oct. 9, 1923.
Jellies. Doubrava & Morris. 177,639; Dec. 25; Serial No. 172,588; published Sept. 25, 1923.
Meal, Steam bone mineral. United Chemical and Organic Products Co. 177,626; Dec. 25; Serial No. 182,190; published Oct. 2, 1923.
Milk, cream, buttermilk. Supplee-Wills-Jones Milk Company. 177,706; Dec. 25; Serial No. 164,457; published Oct. 2, 1923.
Nuts and peanut butter. Pedigreed Products Corporation. 177,727; Dec. 25; Serial No. 176,647; published Sept. 18, 1923.
Oats, wheat cereal, bran flakes, etc. Washburn Crosby Company. 177,829; Dec. 25.
Peanut butter, butter, cereals, coffee, tea, etc. W. H. Johnson. 177,645; Dec. 25; Serial No. 162,932; published Aug. 21, 1923.
Peanuts, Roasted. Betterton-Rupert Coffee Co. 177,775; Dec. 25; Serial No. 183,904; published Oct. 9, 1923.
Pudding and dessert powders, pie fillings, cocoa, etc. B. Heller & Company. 177,792; Dec. 25.
Pudding and dessert powders, pie fillings, cocoa, etc. B. Heller & Company. 177,794; Dec. 25.
Tea. Delano, Potter & Company. 177,694; Dec. 25; Serial No. 183,559; published Oct. 9, 1923.
Tea. Reid, Murdoch & Co. 177,776; Dec. 25; Serial No. 183,940; published Oct. 9, 1923.
Tea. Reid, Murdoch & Co. 177,779–80; Dec. 25; Serial Nos. 183,854–5; published Oct. 9, 1923.
Tea. Wilson Tea Co. 177,730–1; Dec. 25; Serial Nos. 176,053–4; published Aug. 28, 1923.

ALPHABETICAL LIST OF LABELS.

American Dental Emergency Kit. For a Medicated Tooth Filling. H. H. Shapiro. 26,728; Dec. 25.
Bagpipe Brand Wisconsin Select Early June Early Variety Peas Size 4. For Canned Peas. Beaver Canning Company. 26,717; Dec. 25.
Beaver Dam Brand Wisconsin Select Sweet June Peas. For Canned Peas. Beaver Canning Company. 26,712; Dec. 25.
California Sun-Sweetened Raisins Nuts. For Raisins and Nuts. Park & Son. 26,727; Dec. 25.
Dickinson's Evergreen. For Grass Seed. Albert Dickinson Company. 26,719; Dec. 25.
Doppel Braü Beer. For Beer. Pabst Corporation. 26,726; Dec. 25.
Elmwood Club. For Coffee. Thomas J. Webb Company. 26,731; Dec. 25.

Green Tree Inn Brand Early June Wisconsin Peas. For Canned Peas. Beaver Canning Company. 26,713; Dec. 25.
Gulbransen Instruction Roll, Third Edition. For Instruction Rolls for Player Pianos. Gulbransen-Dickinson Co. 26,720; Dec. 25.
Italo French Brand Alimentary Pastes. For Macaroni. J. Cuda. 26,718; Dec. 25.
Moonstone Brand Select Sweet June Wisconsin Peas. For Canned Peas. Beaver Canning Company. 26,711; Dec. 25.
Morning Bloom Brand Wisconsin Peas. For Canned Peas. Beaver Canning Company. 26,716; Dec. 25.
Mount Vernon. For Coffee. Thomas J. Webb Company. 26,732; Dec. 25.
Paul Dresser. For Cigars. V. Levor. 26,723; Dec. 25.
Pure Food. For Butter. Menasha Printing and Carton Company. 26,725; Dec. 25.
Radium Brand Select Early June Peas. For Canned Peas. Beaver Canning Company. 26,715; Dec. 25.
School Days Brand Wisconsin Sweet June Sweet Variety Peas Size 5. For Canned Peas. Beaver Canning Company. 26,714; Dec. 25.
Scotch Bob Butter Scotch Ice Cream. For Butter-Scotch Ice Cream. Kay-White Products, Inc. 26,722; Dec. 25.
Storck's New Life Bread. For Bread. Menasha Printing and Carton Company. 26,724; Dec. 25.
Sun Reign. For Fresh Grapes. C. T. Johns. 26,721; Dec. 25.
The Fiery Cross—The Great Ku Klux Problem. For a Game Problem. G. E. Badger. 26,710; Dec. 25.
Thomas J. Webb. For Coffee. Thomas J. Webb Company. 26,733; Dec. 25.
Uncle Wiggily Water Colors. For Paint Boxes. Fred A. Wish, Inc. 26,734; Dec. 25.
Vitomen Shreds. For Cereal. Vitomen Cereal Company. 26,729; Dec. 25.
Ward's De Luxe Fruit Cake. For Cake. Ward Baking Company. 26,730; Dec. 25.

ALPHABETICAL LIST OF PRINTS.

50-50 Cotton Seed. For Cottonseed. Summerour & Son. 7,109; Dec. 25.
Frisch Fresh Feeling Bread Wrappers. For Bread Wrappers. American Bread Wrapper Company. 7,099; Dec. 25.
Ocean Power Products. For Machinery for the Development of Power from Tides, Currents, and Other Water Movements. C. G. Polleys. 7,108; Dec. 25.
Rest Assured. For Beds, Bedding, and Bedding Supplies. M. Branner. 7,101; Dec. 25.
Saving Jell-O. For Jell-O, a Dessert Preparation. Genesee Pure Food Company. 7,102; Dec. 25.
The Eye Is Forerunner Of The Palate. For Jell-O, a Dessert Preparation. Genesee Pure Food Company. 7,106; Dec. 25.
The Fiery Cross—The Great Ku Klux Problem. For a Game Problem. G. E. Badger. 7,100; Dec. 25.
The Figurines. For Jell-O, a Dessert Preparation. Genesee Pure Food Company. 7,105; Dec. 25.
The Happy Family. For Jell-O, a Dessert Preparation. Genesee Pure Food Company. 7,104; Dec. 25.
The Wedding Present. For Jell-O, a Dessert Preparation. Genesee Pure Food Company. 7,103; Dec. 25.
Where Beauty Begins. For Palmolive Soap. Palmolive Company. 7,107; Dec. 25.
Wiss Guarantee Tag. For Snips. J. Wiss & Sons Co. 7,110; Dec. 25.

CLASSIFIED LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Leather, Sole. T. Cover, jr. 186,630; Dec. 25.
Transparent and translucent sheets. Transloid Products Co. 185,268; Dec. 25.

CLASS 2.

Paper bags. Le Montree Manufacturing Company. 188,019; Dec. 25.
Paper bags and baskets. S. Kann. 183,386; Dec. 25.

CLASS 3.

Bags, portfolios, pocketbooks, etc. F. Hertz. 185,854; Dec. 25.
Golf-score holders. Kiggins & Tooker Co. 169,133; Dec. 25.
Harness, harness parts, nets, and sweat pads. Walter Boyt Company. 186,629; Dec. 25.
Suitcases, trunks, traveling bags, etc. Goldenberg's. 170,638; Dec. 25.
Traveling cases, Wardrobe. T. W. Thackery, jr. 183,089; Dec. 25.
Trunks, traveling bags, etc. Innovation Ingenuities Incorporated. 183,745; Dec. 25.
Vanity boxes. H. B. Canavello. 186,944; Dec. 25.

CLASS 4.

Cleaning preparation for kitchen uses, etc. French Chemical Company. 188,008; Dec. 25.
Hand cleaner. A. R. Goldsworthy. 181,828; Dec. 25.
Laundry powder. S. E. Bargreen. 168,507; Dec. 25.
Paper and cloth, etc., Flint, garnet and emery. Baeder Adamson Company. 188,104; Dec. 25.
Sandpapers and sand cloths. American Glue Company. 187,239; Dec. 25.
Soap, Castile. A. B. Tzifakis. 187,701; Dec. 25.
Soap, Laundry. Concentrated Products Corporation. 187,150; Dec. 25.
Soap, Washing and scouring. John Sexton and Company. 187,899; Dec. 25.
Soaps. John Wanamaker, Philadelphia. 187,234; Dec. 25.
Soaps. John Wanamaker, Philadelphia. 187,892; Dec. 25.

CLASS 6.

Antiseptic, General. Chlorophen Chemical Co. 187,562; Dec. 25.
Bleach and beauty pack, Facial. F. St. Ana. 187,488; Dec. 25.
Creams, complexion bags, and hand lotion. A. B. Gray. 187,621; Dec. 25.
Creams, Tissue. H. L. Drew. 187,408; Dec. 25.
Eyebrows and eyelashes, Darkener for. Maybelline Company. 187,333; Dec. 25.
Filtration and in demulsification of liquids, Material used in aiding. Celite Products Company. 187,508; Dec. 25.
Gas-producing liquid, Noxious-. H. B. Dyer. 182,963; Dec. 25.
Incense and incense candles. J. W. Darley. 187,375; Dec. 25.
Inhalant for the relief of cold in the head. Thomas Kerfoot & Co. 187,424; Dec. 25.
Laxative in candy form. S. Longo. 187,322; Dec. 25.
Medicinal preparation for barber's itch. T. H. Barekman. 187,403; Dec. 25.
Medicine for cuts, burns, etc. Seyler Medicine Co. 187,544; Dec. 25.
Nerve depressant. C. D. Searle and Company. 187,645; Dec. 25.
Perfume and face powder. L. T. Piver, Inc. 187,385; Dec. 25.
Perfume, toilet water, face and talcum powders, etc. Houbigant, Inc. 187,257; Dec. 25.
Perfumes, toilet waters, face cream, etc. American Druggists Syndicate. 187,371; Dec. 25.
Perfumery extracts, toilet powders, and bath crystals. F. R. Arnold & Co. 180,166; Dec. 25.
Pills. Frasier, Thornton & Co. 152,744; Dec. 25.
Powders and creams, perfumes, etc., Face. Heather Company. 187,420; Dec. 25.
Powders and creams, perfumes, etc., Face. Heather Company. 187,422; Dec. 25.
Powders and creams, perfumes, etc., Face. C. J. Diaz. 187,569–70; Dec. 25.
Powders and creams, perfumes, etc., Face. Heather Company. 187,623; Dec. 25.
Preparation for cleaning the teeth and mouth. C. J. Brown. 180,323; Dec. 25.
Preparation for the treatment of kidneys and liver. A. Parker. 187,384; Dec. 25.
Remedy for itch. L. J. Sharp. 187,646; Dec. 25.
Yeast food tonic, Prepared. Novafaex Company. 179,880; Dec. 25.

CLASS 7.

Cordage. American Steel and Wire Company of New Jersey. 186,623; Dec. 25.
Twine. Blake, Moffitt & Towne. 187,291; Dec. 25.
Twine, Linen broom. Nitram Manufacturing Co. 187,875; Dec. 25.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

CLASS 12.

Cement, Acid-resisting. Quigley Furnace Specialties Company. 187,536; Dec. 25.
Cement, Glazing. McCallum Company. 186,918; Dec. 25.
Cements, Plastic. Adams & Jewell. 184,951; Dec. 25.
Drain boards and mantels, etc., Composition. H. Leffler. 186,016; Dec. 25.
Insulating material for walls, box cars, etc. Califelt Insulation Mfg. Co. 187,710; Dec. 25.
Lime, Hydrated. Marblehead Lime Company. 185,604; Dec. 25.
Shingles. Hanawalt Spaulding Company. 187,051; Dec. 25.
Shutters, curtains, and doors, Metallic fire-resisting. Kinnear Manufacturing Company. 163,525; Dec. 25.

CLASS 14.

Alloy, Low-fusing metal. J. M. Ney Company. 187,479; Dec. 25.
Bearing metal. Lumen Bearing Company. 186,959; Dec. 25.
Metal, Bearing. Ariston Metal Company. 186,578; Dec. 25.

CLASS 15.

Engines, Fuel for internal-combustion. Benzol Motor Fuel Company. 187,792; Dec. 25.
Gasoline. Puritan Oil Corporation. 186,291; Dec. 25.
Oil, Motor. Motol Lubricants Corporation. 187,336–7; Dec. 25.

CLASS 16.

Composition for treating metallic surfaces to prevent rust. American Rust Proof Co. 186,263; Dec. 25.
Lacquer, varnishes, lacquers, and automobile top dressings, Book. Holliston Mills Inc. 185,081; Dec. 25.
Paints. Omaha Paint and Glass Company. 118,608; Dec. 25.
Paints, varnishes, and enamel paints. Toch Brothers. 161,594; Dec. 25.
Paints, varnishes, paint enamels, etc. Bradley-Wise Paint Company. 186,866; Dec. 25.
Polishing preparation. E. W. Softley. 186,969; Dec. 25.
Varnishes, stains, paints, and paint enamels. R. H. Moran. 183,846; Dec. 25.

CLASS 17.

Cigars. Otto Eisenlohr & Bros. Incorporated. 186,888; Dec. 25.
Cigars. A. E. McCall. 187,013; Dec. 25.
Cigars. H. Siebenmorgen. 186,934; Dec. 25.
Cigars, cigarettes, cheroots, smoking tobacco. R. J. Seidenberg Company. 185,796; Dec. 25.
Tobacco, Smoking. Larus & Brother Company. 187,226; Dec. 25.

CLASS 19.

Automobile, Passenger-carrying. Willys-Overland Company. 185,946; Dec. 25.
Bicycles. Great Western Manufacturing Company. 115,583; Dec. 25.
Brakes, Vehicle. Hydraulic Brake Company. 184,941; Dec. 25.
Vehicle visor. Telulah Petralyke Company. 181,357; Dec. 25.

CLASS 21.

Batteries, Dry and storage. Advance Battery Mfg. Co. 177,463; Dec. 25.
Electric-light outfits for Christmas trees, Decorative. General Electric Company. 171,165; Dec. 25.
Lamps, Automobile or vehicle electric. Doering Manufacturing Company. 186,222; Dec. 25.
Lighting-fixture clusters, Electrical. Benjamin Electric Manufacturing Company. 186,583; Dec. 25.
Motors, Electric. Kimble Electric Company. 186,844; Dec. 25.

CLASS 22.

Bats, Baseball. D. J. Marston. 183,658; Dec. 25.
Bicycles and velocipedes, Children's. D. P. Harris Hardware & Manufacturing Co. 182,581–3; Dec. 25.
Cards, Playing. United States Playing Card Company. 186,206; Dec. 25.
Cards, Playing. United States Playing Card Company. 187,704; Dec. 25.
Dolls. Schoen & Yondorf Co. 186,675–6; Dec. 25.
Dolls, puzzles, etc. Wazu Novelty Company. 172,921; Dec. 25.
Footballs, basket, soccer, and punching balls. William Sykes, Limited. 184,805; Dec. 25.
Game played with pieces, Chinese. Piroxloid Products Corporation. 186,757; Dec. 25.
Games, Parlor. G. W. Sheppard. 183,724; Dec. 25.
Golf balls. Worthington Ball Company. 182,889; Dec. 25.
Miniature living-room suites, chairs, rockers, etc. T. S. Dowst. 158,974; Dec. 25.
Toy balloon. Candy-Toy Company of America. 181,976; Dec. 25.
Toy, Question and answer. M. R. Forkapa. 186,424; Dec. 25.
Toy wagon, Child's. Puffer-Hubbard Manufacturing Company. 170,402; Dec. 25.
Velocipedes, Children's. W. H. Bush. 185,693; Dec. 25.

CLASS 23.

Bottle cappers and corkers. Lawrence Sales Co. 187,469; Dec. 25.
Brad sets, center punches, clamps, etc. L. S. Starrett Company. 185,153; Dec. 25.
Compressors, Air. Franklin Air Compressor Works. 186,470; Dec. 25.
Cultivator sweeps. B. F. Avery & Sons. 186,312; Dec. 25.
Dairy, creamery, milk-plant, etc., machinery and appliances. Creamery Package Mfg. Company. 167,601–3; Dec. 25.
Engines for autos, Water circulator for cooling systems for gasoline. Great States Corporation. 186,052; Dec. 25.
Engines for autos, Water circulator for cooling systems for gasoline. Great States Corporation. 186,504; Dec. 25.
Fire extinguishers. Newbegin Fire Appliance Company. 157,042; Dec. 25.
Fire extinguishers and refill units. Ohio Instrument Mfg. Co. 162,194; Dec. 25.
Gearing, Speed-changing transmission. Chandler Motor Car Company. 186,773; Dec. 25.
Mechanics' tools, Automotive. L. Schwab. 168,905; Dec. 25.
Nutcrackers. Cook Electric Company. 186,317; Dec. 25.
Saws. Henry Disston & Sons, Incorporated. 188,002; Dec. 25.
Soda-fountain cooling and dispensing outfits. Pennsylvania Silverware Company. 175,267; Dec. 25.
Spraying devices for paint, sand, and cleaning solutions. Geo. M. Stowe, jr. 186,165; Dec. 25.
Turbines, pumps, etc. William Cramp & Sons Ship & Engine Building Co. 185,960; Dec. 25.
Turbines, pumps, hydraulic turbines, etc. William Cramp & Sons Ship & Engine Building Co. 186,036; Dec. 25.
Wrenches. Henry & Allen. 186,474; Dec. 25.

CLASS 26.

Adding, listing, calculating, and bookkeeping machines. Powers Accounting Machine Corporation. 186,156; Dec. 25.
Adding machines. Precision Adding Machine Company. 184,984; Dec. 25.
Bevels, calipers, dividers, center testers, etc. L. S. Starrett Company. 185,152; Dec. 25.
Glasses, Field and opera. Sussfeld, Lorsch & Schimmel. 187,546–8; Dec. 25.
Ophthalmic mountings and parts thereof. Willson Goggles, Inc. 185,276; Dec. 25.
Photographic shutters. Eastman Kodak Company. 187,097; Dec. 25.
Picture projectors, Motion-. Hall Projector Company. 187,050; Dec. 25.
Picture-viewing machines. Advance Machine Company. 185,101; Dec. 25.

CLASS 27.

Clips. Tongue-Tyer Clip Co. 187,970; Dec. 25.

CLASS 29.

Vacuum-cleaner nozzle, Mop or wiping member for attachment to. M. S. Wright Company. 175,175–6; Dec. 25.
Watchcases. S. M. Watch Case Co. 185,232; Dec. 25.

CLASS 30.

Earthenware, china, and porcelain plates, table and kitchen ware. Goldenberg's. 170,644; Dec. 25.

CLASS 34.

Furnaces and parts thereof, Steam-boiler. W. A. Gilchrist. 179,719; Dec. 25.
Furnaces, gas-fired steam boilers, gas ranges, etc., Gas. C. B. Babcock. 186,407; Dec. 25.
Furnaces, stoves, ranges, and heaters. Cole Manufacturing Company. 168,254; Dec. 25.
Gas generators. Coleman Lamp Company. 186,695; Dec. 25.
Ventilators. W. H. Jardine. 187,679; Dec. 25.

CLASS 35.

Packing and packing material. Garlock Packing Company. 160,008; Dec. 25.
Tire flaps for automobile tires, tire accessories. A. I. Levin. 182,251; Dec. 25.
Tires, Pneumatic. Virginian Tire & Rubber Company. 186,092; Dec. 25.

CLASS 36.

Phonograph records. H. Moulton. 176,417; Dec. 25.

CLASS 37.

Books and blank form cards, Fass. Wellar and Adams. 184,999; Dec. 25.
Box board and wrapping paper. Schmidt & Ault Paper Co. 183,505; Dec. 25.
Checks, bonds, securities, and writing and printing paper. A. E. Skoog. 186,618; Dec. 25.
Covers or binders. Master Reporting Co. 141,682; Dec. 25.
Crayons. Milton Bradley Company. 186,439; Dec. 25.
Envelopes. Federal Envelope Mfg. Co. 187,412; Dec. 25.
Envelopes and manuscript covers, Filing. W. S. Tuttle. 183,324; Dec. 25.
Paper, Blasting. Diem & Wing Paper Co. 186,880; Dec. 25.
Paper, Bond. Diem & Wing Paper Co. 186,874; Dec. 25.
Paper, Bond. Diem & Wing Paper Co. 186,876; Dec. 25.
Paper, paper napkins, towels, and tablecloths, Toilet. Fort Howard Paper Company. 186,745; Dec. 25.
Paper, paper napkins, towels, and tablecloths, Toilet. Fort Howard Paper Company. 186,953; Dec. 25.
Paper, Prepared tracing. Special Paper Mfg. Co. 186,029; Dec. 25.
Paper, Toilet. Northern Paper Mills. 184,357; Dec. 25.
Paper, Writing. E. E. Lloyd Paper Company. 188,125; Dec. 25.
Pens, Fountain. J. Harris & Company. 187,864; Dec. 25.

CLASS 38.

Newspaper column or article, Title for heading of. H. Markel. 185,224; Dec. 25.
Publication, Paint and varnish monthly periodical. National Save The Surface Campaign Committee. 184,561; Dec. 25.

CLASS 39.

Belts, Ladies'. Slote & Schaffer. 184,989; Dec. 25.
Boots and shoes, Leather. Bettmann-Dunlap Company. 181,005; Dec. 25.
Corsets. Abraham & Straus, Inc. 186,620; Dec. 25.
Corsets. Rite Form Corset Co. 175,106; Dec. 25.
Corsets, brassières, girdles, etc. American Lady Corset Co. 183,242; Dec. 25.
Garters, Men's. George Frost Company. 181,481; Dec. 25.
Gloves, underwear and hosiery, Ladies'. Mohawk Glove Corporation. 184,280; Dec. 25.
Hats. Crooks Brothers Millinery Company. 184,937; Dec. 25.
Hats and caps for men and boys. R. Baer. 179,645; Dec. 25.
Hats and caps for men and boys, Felt. John B. Stetson Company. 183,537; Dec. 25.
Hats, Ladies' and children's. D. S. Wallerstein and Company. 184,010; Dec. 25.
Hats, Ladies' and misses'. Cohn & Kaplan. 183,908; Dec. 25.
Rubber heels. Schacht Rubber Mfg. Co. 187,229; Dec. 25.
Shirts, Dress. D. Tenenbaum. 172,131; Dec. 25.
Shoes. Egan-Dryfoos Distributing Co. 172,526; Dec. 25.
Shoes, Children's. Cammeyer. 182,650; Dec. 25.
Shoes, Leather. F. Mayer Boot & Shoe Co. 186,653; Dec. 25.
Undergarments, Women's fitted. Warner Brothers Company. 184,371; Dec. 25.

CLASS 40.

Snap fasteners for gloves, caps, trunks, etc. Rau Fastener Company. 186,568; Dec. 25.

CLASS 42.

Camel's-hair piece goods. Del Monte-Hickey. 174,203; Dec. 25.
Cotton goods, denims, sheetings, bedspreads, etc. Farish Company. 169,164; Dec. 25.
Cotton piece goods. Denzer & Nathan, Inc. 184,784; Dec. 25.
Cotton, silk, linen, etc., piece goods. Jacob Miller's Sons Co. 187,687–8; Dec. 25.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. 187,084; Dec. 25.
Hair nets. P. L. Graf. 187,159; Dec. 25.
Hair nets, Sport. T. B. M. Gates. 187,252; Dec. 25.
Handkerchiefs. S. Gorelick & Sons. 179,146; Dec. 25.
Handkerchiefs J. Klein. 186,915–16; Dec. 25.
Knit goods in the piece. A. F. Huebner. 176,345; Dec. 25.
Shade material, lace curtains, etc., Window-. Rasch & Gainor. 185,883; Dec. 25.
Silk piece goods. Duplan Silk Corporation. 187,208–9; Dec. 25.
Upholstery and drapery textile fabrics of wool, silk, etc. Morton Brothers Inc. 187,586; Dec. 25.
Woolen piece goods. Forstmann & Huffmann Company. 186,892; Dec. 25.
Woolen piece goods. Forstmann & Huffmann Company. 186,895–7; Dec. 25.
Woolen piece goods. Forstmann & Huffmann Company. 187,572–3; Dec. 25.
Woolen piece goods. Forstmann & Huffmann Company. 187,575; Dec. 25.
Woolen piece goods. Roubaix Mills, Inc. 187,541; Dec. 25.
Worsted and woolen dress goods. F. A. Bochmann & Co. 187,242–3; Dec. 25.

CLASS 43.

Thread, Linen. Linen Thread Company. 160,711; Dec. 25.

CLASS 44.

Dental cutting tools. Cleveland Dental Manufacturing Company. 162,865; Dec. 25.
Dental, optical, and surgical mirrors, etc. A. A. Anzell. 187,656; Dec. 25.
Rubber goods, Seamless dipped india-. Mitcham Rubber Co. 182,984; Dec. 25.
Telephonic apparatus, and parts thereof. Globe Phone Manufacturing Company. 149,747; Dec. 25.
Therapeutic apparatus, Electronic. Spectro-Electronic Foundation. 187,069; Dec. 25.

CLASS 45.

Beverages sold as soft drinks. L. H. Kirkpatrick. 182,756; Dec. 25.
Beverages sold as soft drinks and sirups therefor. V. Jones. 169,017; Dec. 25.
Drinks, Nonalcoholic, maltless soft. La France Products Corporation. 184,973; Dec. 25.

CLASS 46.

Apples, Fresh. Grossman Bros. & Rea, Inc. 187,310; Dec. 25.
Artichokes, Fresh boxed. Santa Cruz Coast Vegetable Co. 187,175; Dec. 25.
Banana flour. D. Maronik. 185,979; Dec. 25.
Bay leaves and rubbed sage. Puritan Drug Mfg. Co. 146,656; Dec. 25.
Bread. Heimbach Baking Company. 179,269; Dec. 25.
Bread. Petersen & Pegau Baking Co. 185,985; Dec. 25.
Bread. Schafer Bakery, Inc. 183,319; Dec. 25.
Bread. Ward Baking Company. 185,393; Dec. 25.
Bread. Ward Baking Company. 185,735; Dec. 25.
Bread and cake. Ward Baking Company. 185,736; Dec. 25.
Butter. H. C. Christians Co. 185,566; Dec. 25.
Butter. W. C. Kammerer. 184,466; Dec. 25.
Cake. R. B. Ward & Co. 186,400; Dec. 25.
Cakes. Ward Baking Company. 184,531–3; Dec. 25.
Candles. Ederer Bros. 174,563; Dec. 25.
Candy. Chandler and Rudd Company. 186,464; Dec. 25.
Candy. Elmer Candy Co. 179,860; Dec. 25.
Candy. Euclid Candy Co. 185,513; Dec. 25.
Candy. George H. Shinn Co. 187,268; Dec. 25.
Candy and cakes. M. B. Stock. 185,233; Dec. 25.
Candy cup for holding ice cream and ices. Las-Ka Company. 181,286; Dec. 25.
Canned corn and peas. Shaffer Stores Company. 186,334; Dec. 25.
Canned fruits and berries. Northwest Fruit Products Company. 185,609; Dec. 25.
Canned fruits and berries. Oregon Canning Company. 187,340; Dec. 25.
Canned fruits, vegetables, and fish, and dried fruits. Hunt Brothers Packing Company. 187,058; Dec. 25.
Canned fruits, vegetables, and salmon, and condiments. Kroger Grocery & Baking Co. 184,926; Dec. 25.
Canned sardines. I. Epstein. 182,204; Dec. 25.
Canned vegetables. Rochelle Canneries, Inc. 187,347; Dec. 25.
Canned vegetables and fruits, pancake flour, etc. Portage Wholesale Grocery Company. 186,666; Dec. 25.
Canned vegetables, fruits, and fish, fruit jellies, etc. Mallott, Johnson Co. 185,025–6; Dec. 25.
Cereal, Breakfast. Vitomen Cereal Company. 182,025; Dec. 25.
Cheese. Frink Creamery Company. 186,361; Dec. 25.
Coffee. B. Fischer & Co. 185,821; Dec. 25.
Coffee. Ohio Valley Coffee Co. 180,770; Dec. 25.
Confectionery. Barg & Foster Candy Company. 183,814–16; Dec. 25.
Cookies. J. S. Ivins' Son, Inc. 186,132; Dec. 25.
Eggs. L. A. Grouten. 179,865; Dec. 25.
Feed, Scratch. Universal Mills. 184,008; Dec. 25.
Feed, Stock. Arkadelphia Milling Co. 185,355; Dec. 25.
Flour. Charleston Milling & Produce Company. 185,955; Dec. 25.
Flour and corn meal, Wheat. C. L. Green. 185,336; Dec. 25.
Flour, bread, biscuits, and cake. R. Winter Limited. 185,325; Dec. 25.
Flour, Plain. H. D. Lee Flour Mills Company. 186,140; Dec. 25.
Flour, Self-rising. M. D. King Milling Company. 184,079–80; Dec. 25.
Flour, Wheat. Ansted & Burk Company. 184,704; Dec. 25.

Flour, Wheat. Hecker-Jones-Jewell Milling Company. 183,285; Dec. 25.
Flour, Wheat. Hecker-Jones-Jewell Milling Company. 183,475–6; Dec. 25.
Flour, Wheat. Hecker-Jones-Jewell Milling Company. 183,480; Dec. 25.
Flour, Wheat. Hecker-Jones-Jewell Milling Company. 183,877; Dec. 25.
Flour, Wheat. H. H. King Flour Mills Company. 184,736; Dec. 25.
Flour, Wheat. Pillsbury Flour Mills Company. 182,993; Dec. 25.
Flour, Wheat. Frank R. Prina Corporation. 183,594; Dec. 25.
Flour, Wheat. Southern Illinois Milling Company. 183,779; Dec. 25.
Flour, Wheat. Southwestern Milling Company. 185,384; Dec. 25.
Flour, Wheat. Sparks Milling Company. 185,385; Dec. 25.
Flour, Wheat. Sunnyside Milling Co. 183,677; Dec. 25.
Food-flavoring extracts. Citrus Products Company. 184,120; Dec. 25.
Food, Poultry. Marmite Food Extract Co. 183,581; Dec. 25.
Foods, cooked bran, etc., Cereal breakfast. Battle Creek Food Company. 175,059; Dec. 25.
Ham, lard, bacon, sausage, salt pork, etc. Northern Packing Company. 182,667; Dec. 25.
Marmalade. B. S. Powell. 183,500; Dec. 25.
Mayonnaise, salad, etc., dressings. J. H. Hargreaves. 170,882; Dec. 25.
Meats, boiled ham, and lard, Smoked. C. Swanston & Son. 187,394; Dec. 25.
Milk and milk products. Bernese Alps Milk Co. 176,533; Dec. 25.
Oil and macaroni, Olive. F. Zichello. 186,174; Dec. 25.
Oil, Hydrogenated coconut. Best Foods, Inc. 186,688–9; Dec. 25.
Oil, Sesame. Menorah Food Products Co. 183,983; Dec. 25.
Oils, Edible. Standard Oil Company of New York. 185,321; Dec. 25.
Peanut bar. Taylor Candy Company. 186,034; Dec. 25.
Potatoes, Sweet. Texas Distributing Company. 184,627; Dec. 25.
Semolina. W. P. Tanner-Gross & Co. 183,609; Dec. 25.
Tea, shelled walnuts, vinegar, and tomato catchup. John Scowcroft & Sons Company. 182,015; Dec. 25.
Waffles. Orange Mill Company. 181,232; Dec. 25.
Yeast extract. J. J. Rick. 187,018; Dec. 25.

CLASS 50.

Blackboards and blackboard stands. Weber Costello Co. 182,193; Dec. 25.
Designs and photographs on glass, etc. Photoplating Company. 166,535; Dec. 25.
Knee rests. J. Novak. 183,402; Dec. 25.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 25TH DAY OF DECEMBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A/S Cellulosepatenter. (See Morterud, Einar, assignor.)
Abbott Laboratories, The. (See Volwiler, Ernest H., assignor.)
Abram, Ira M., Dugger, assignor of one-fourth to C. Thomson, Farmersburg, Ind. Car pusher. 1,478,627; Dec. 25.
Addograph Company. (See Crawley, Mansfield C., assignor.)
Adler, John A., North Milwaukee, Wis. X-ray-film holder and examining frame. 1,478,504; Dec. 25.
Adolphsen, William T., Verona, Pa. Burner nozzle. 1,478,370; Dec. 25.
Ainsworth, George, Great Neck, N. Y. Loop for lighting fixtures. Des. 63,601; Dec. 25.
Ainsworth, George, Great Neck, N. Y. Arm for lighting fixtures. Des. 63,602; Dec. 25.
Ainsworth, George, Great Neck, N. Y. Husk for lighting fixtures. Des. 63,603; Dec. 25.
Ainsworth, George, Great Neck, N. Y. Loop for lighting fixtures. Des. 63,604; Dec. 25.
Ainsworth George, Great Neck, N. Y. Canopy for lighting fixtures. Des. 63,605; Dec. 25.
Ainsworth, George, Great Neck, N. Y. Socket cover for lighting fixtures. Des. 63,606; Dec. 25.
Ainsworth, George, Great Neck, N. Y. Ceiling light for lighting fixtures. Des. 63,607; Dec. 25.
Akesson, Charles J., San Diego, Calif. Chair desk. 1,478,780; Dec. 25.
Aktiengesellschaft, Brown Boveri & Cie. (See Meyer, Adolf, assignor.)
Albrighton, Walter R., Thornburg, Iowa. Camping cabinet. 1,478,371; Dec. 25.
Allen, Lake, Little Rock, S. C. Movable headlight. 1,478,369; Dec. 25.
Almagro, Roberto, Habana, Cuba. Bagasse and liquid-fuel furnace. 1,478,418; Dec. 25.
Amendola, Bartolomeo, San Francisco, Calif. Railway brake. 1,478,881; Dec. 25.
American Balsa Company Inc. (See Broady, Harry W., assignor.)
American Balsa Company. (See Welin, Axel, assignor.)
American Forging and Socket Co. (See Saunders, Walter S., assignor.)
American Telephone and Telegraph Company. (See Bailey, Rand S., assignor.)
American Telephone and Telegraph Company. (See Smith, Don, assignor.)
American Telephone and Telegraph Company. (See Walton, Cecil E., assignor.)
American Thermos Bottle Company. (See Hastedt, William R., assignor.)
Amico, James W., Rye, N. Y. Tire-tool method. 1,478,811; Dec. 25.
Anderson, Clifton R. (See Farris, Grover C., assignor.)
Anderson, James A., Morgan, Utah. Conveyer. 1,478,844; Dec. 25.
Anderson, Louis W., Grand Rapids, Mich., assignor to The Tunnel & Sewer Machine Engineering Company, Buffalo, N. Y. Tunneling machine. 1,478,466; Dec. 25.
Andreau, Roland L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing terpenic alcohols. 1,478,690; Dec. 25.
Apothéloz, Charles, New York, N. Y. Tea and coffee strainer. 1,478,628; Dec. 25.
Armour Grain Co. (See Fisk, Jesse F., assignor.)
Asbury, Dorsey F., Washington, D. C. Valve mechanism for internal-combustion engines. 1,478,596; Dec. 25.
Atkinson, Lloyd S., Las Vegas, Nev. Railway-signaling-equipment receptacle. 1,478,540; Dec. 25.
Atwater Kent Manufacturing Company. (See Evans, William A., assignor.)
Automatic Straight Air Brake Company. (See Neal, Spencer G., assignor.)
Axford and De Shields. (See Cawthron, George, assignor.)
Badger Rubber Works, The. (See Githens, Herbert A., assignor.)
Barene, Otto E., Brooklyn, N. Y. Coal conveyer. 1,478,812; Dec. 25.
Bagge, Gustaf F., New York, N. Y. Electric-display-controlling mechanism. 1,478,691; Dec. 25.
Bagshaw, W. H., Co. (See Stevens, Royal A., assignor.)
Bailey, Rand S., Montclair, N. J., assignor to American Telephone and Telegraph Company. Machine-switching telephone-exchange system. 1,478,419; Dec. 25.
Bailly, Marcel, Paris, France. Reenforced soap. 1,478,882; Dec. 25.
Baines, Joseph, et al. (See Prosser, William J., assignor.)
Baker, Frank E. (See Cave, Walter T., assignor.)
Baltimore Gas Appliance & Manufacturing Company, The. (See Longfellow, Martin W., assignor.)
Baranoff, Andrian J., Los Angeles, Calif. Combination tube expander, beader, and cutter. 1,478,692; Dec. 25.
Barchus, Charles, Natchez, Miss. Piston-ring holder. 1,478,724; Dec. 25.
Barnes, Gerard C., and J. R. Morgan, Coogee, New South Wales, Australia. Centrifugal separator. 1,478,660; Dec. 25.
Barney, Philip, Tecumseh, Ontario, Canada. Child's cot. 1,478,725; Dec. 25.
Barrow, John B., Macon, Ga. Chain-carrier mechanism for dry kilns. 1,478,883; Dec. 25.
Bartlett, Thomas H., Long Beach, Calif. Combination tool. 1,478,629; Dec. 25.
Bass, Andrew J. (See Long, J., and Bass.)
Bassick Manufacturing Company, The. (See Cummins, Norman W., assignor.)
Bates, Eddo V., Lowell, Mass. Point-to-point breast for wool cards. 1,478,630; Dec. 25.
Bath, John, & Co. (See Bath, John, assignor.)
Bath, John, assignor to John Bath & Co., Inc., Worcester, Mass. Adjustable gauge. 1,478,541; Dec. 25.
Bauersfeld, Walther, assignor to the Firm Carl Zeiss, Jena, Germany. Copying device. 1,478,693; Dec. 25.
Baumeister, William H., Spencer, Iowa. Antiskid chain. 1,478,420; Dec. 25.
Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Candy-making apparatus. 1,478,866; Dec. 25.
Bausman, Alonzo L., assignor to National Equipment Company, Springfield, Mass. Feeding mechanism for reducing apparatus. 1,478,867; Dec. 25.
Bean, Louis A., Denver, Colo. Direction indicator for automobiles. 1,478,542; Dec. 25.
Bebler, Elwood Los Angeles, Calif. Bomb-projecting gun. 1,478,597; Dec. 25.
Bechtold, Reuben E., and A. W. Mellowes, Detroit, Mich., assignors, by mesne assignments, to Delco-Light Company. Automatic regulating and controlling device. 1,478,421; Dec. 25.
Beck, Ernst G. (See Weber, Johann M., assignor.)
Becker, Emil, assignor to E. G. Bek, Pforzheim, Germany. Auxiliary device for inserting leaves of solder into the joints of the links of wire chains. 1,478,813; Dec. 25.
Becker, John A., Nampa, Idaho. Waste receptacle. 1,478,884; Dec. 25.
Bek, Ernst G. (See Becker, Emil, assignor.)
Bek, Ernst G. (See Bittrolf, Wilhelm, assignor.)
Bek, Ernst G. (See Weber, Johann M., assignor.)
Bek, Ernst G. (See Weber, J. M., and Betz, assignors.)
Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Speedometer. 1,478,372; Dec. 25.
Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Frame construction. 1,478,373; Dec. 25.
Belluche, Elmer W., Watertown, Mass., assignor to George R. Swart & Company, Inc., New York, N. Y. Sheet feeder. 1,478,374; Dec. 25.
Bender, Henry W., Brooklyn, N. Y. Piston. 1,478,368; Dec. 25.
Bengtsson, Bror J., Kallered, Sweden. Holder for cleaning needles for vaporizing burners or the like. 1,478,936; Dec. 25.
Bennett, Morris H., Waterbury, Conn., assignor to Scovill Manufacturing Company. Electric furnace. 1,478,375; Dec. 25.
Benson, Thomas E. (See Nichols, William B., assignor.)
Bergner, Frederick. (See Hockley, Marion J., assignor.)
Berkley, Richard H., Plainville, Mass., assignor to Whiting & Davis Company. Machine for making link mesh. 1,478,694; Dec. 25.
Bernhard, Benjamin S., Boston, Mass. Door closer and check. 1,478,376; Dec. 25.
Bernhard, Benjamin S., Boston, Mass. Door closing and checking mechanism. 1,478,377; Dec. 25.
Berry, Arthur F., London, England. Electric fuse, heating element, and the like. 1,478,845; Dec. 25.
Betz, Karl. (See Weber, J. M., and Betz.)

Bevans, James W., Hackensack, N. J. Child's toothbrush. Des. 63,608; Dec. 25.
Bibolini, Corrado. (See Muzzi, A., Bibolini, and Vincina.)
Bidwell, Paul W., Easthampton, assignor to B. F. Perkins & Son, Inc., Holyoke, Mass. Cloth-piling machine. 1,478,846; Dec. 25.
Bilbrey, George L., Hermitage Springs, Tenn. Poultry coop. 1,478,695; Dec. 25.
Binns, Edward H., Pittsburgh, Pa. Shoe. 1,478,467; Dec. 25.
Binns, Edward H. and R. H., Pittsburgh, Pa. Detachable shoe cuff. 1,478,468; Dec. 25.
Binns, Ralph H. (See Binns, Edward H. and R. H.)
Bird, Eugene H., Hillside, N. J., assignor to The Koppers Company, Pittsburgh, Pa. Gas-purifying apparatus. 1,478,543; Dec. 25.
Bird, Reginald W., Framingham, assignor to The Flintkote Company, Boston, Mass. Shingle strip. 1,478,544; Dec. 25.
Bishop, Joseph W., Muskegon, Mich. Audiphone. 1,478,545; Dec. 25.
Bittrolf, Wilhelm, assignor to E. G. Bek, Pforzheim, Germany. Manufacture of chain meshwork and chains. 1,478,814; Dec. 25.
Blakely, William W., Detroit, Mich. Securing device for vehicles. 1,478,505; Dec. 25.
Blauvelt, Frederic D., Glen Ridge, N. J. Valve. 1,478,815; Dec. 25.
Bleecker, Warren F., Boulder, Colo. Concentrating carnotite ores. 1,478,631; Dec. 25.
Blin, Jules A., Paris, France. Metal bedstead. 1,478,937; Dec. 25.
Boehme, Herman O., New York, N. Y. Soldering machine. 1,478,636; Dec. 25.
Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,478,632; Dec. 25.
Booth, Earl C., assignor to Holcomb & Hoke Mfg. Co., Indianapolis, Ind. Vending-machine housing. Des. 63,609; Dec. 25.
Borreson, Borre H., Minneapolis, Minn. Card and tag holder. 1,478,598; Dec. 25.
Boucher, Cyril A., Joplin, Mo. Attachment for cigar-bunching machines. 1,478,726; Dec. 25.
Bower, Lewis E. (See Duffy, Thomas I., assignor.)
Bowman, Elva, Fort Wayne, Ind. Chiropractic table. 1,478,816; Dec. 25.
Bragg, Gilbert A., Salt Lake City, Utah, assignor to Metals Recovery Company, New York, N. Y. Selective flotation of minerals. 1,478,697; Dec. 25.
Breeden, William S., Millville, N. J. Bottle. Des. 63,610; Dec. 25.
Brewer-Titchener Corporation, The. (See Winans, Daniel M., assignor.)
Bristol Company, The. (See Petitjean, Charles W., assignor.)
Brody, Harry W., Bayside, N. Y., assignor to American Balsa Company, Inc. Lowering and raising apparatus for ships' boats. 1,478,546; Dec. 25.
Bromberg, Oscar F. R., Los Angeles, Calif. Combined tire valve and pressure gauge. 1,478,506; Dec. 25.
Brooks, Stacy D., Macklin, Saskatchewan, Canada. Harness construction. 1,478,507; Dec. 25.
Brosious, Adam, Sunbury, Pa. Safety grab hook. 1,478,727; Dec. 25.
Brown, Albert S., Omaha, Nebr. Emergency sectional tire. 1,478,885; Dec. 25.
Brown, Dalton E., Lancaster, Ohio. Artificial tree. 1,478,728; Dec. 25.
Brown, Earl, Laurel, Iowa. Attachment for harrows. 1,478,886; Dec. 25.
Brown, Francis H. (See Ogden, Sidney H., assignor.)
Brown, James A., Boston, Mass. Rotary explosive engine. 1,478,378; Dec. 25.
Brown, John H., assignor to C. Hadaway, Vancouver, British Columbia, Canada. Kettle. 1,478,729; Dec. 25.
Brown, Vernon, and J. H. Pengilly, Los Angeles, Calif. Relay. 1,478,547; Dec. 25.
Brownlee, Roy M., and R. H. Uhlinger, Pittsburgh, Pa. Special carbon black. 1,478,730; Dec. 25.
Bruce, William J., Escanaba, Mich. Demountable rim for automobile wheels. 1,478,633; Dec. 25.
Brunner, Herbert R., assignor, by mesne assignments, to Van Kannel Revolving Door Company, New York, N. Y. Air-preheating device for furnaces. 1,478,731; Dec. 25.
Brunner, Herbert R., assignor, by mesne assignments, to Van Kannel Revolving Door Company, New York, N. Y. Air-preheating device for furnaces and the like. 1,478,732; Dec. 25.
Brush, Alanson P., Detroit, Mich. Transmission mechanism for automobiles. Re15,738; Dec. 25.
Bugbee & Niles, Company. (See King, Rufus, assignor.)
Burford, Alfred W. (See Osborne, John H., and Burford.)
Burgert, Fred and H., New York, N. Y. Attachment for hemstitching machines. 1,478,379; Dec. 25.
Burgert, Henry. (See Burgert, Fred and H.)
Burris, Charles W., Rapson, Colo. Portable switch for railways. 1,478,634; Dec. 25.
Butcher, Percy, Jacksonville, Fla. Piston. 1,478,887; Dec. 25.
Butkovich, Anton E., Chicago, Ill. Soldering iron. 1,478,868; Dec. 25.
Butler, Robert T., assignor of one-half to H. E. Thompson, Flushing, Ohio. Switch stand. 1,478,888; Dec. 25.
Cady, Elisha J. (See La Batt, William D., assignor.)
Campbell, George W., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,478,698; Dec. 25.
Campsey, James E., Cameron, W. Va. Band wheel for oil-well-drilling apparatus. 1,478,548; Dec. 25.
Canadian General Electric Co. Ltd., The. (See Mallett, C. S., Forrest, and Monle, assignors.)
Cannon, James H., Los Angeles, Calif. Hair drier. 1,478,635; Dec. 25.
Cantwell, Edward J., Kansas City, Mo. Hayrake. 1,478,817; Dec. 25.
Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic reproduction and method of and apparatus for making the same. 1,478,599; Dec. 25.
Cardoso, Luis, Puebla, Mexico. Silent-key typewriter attachment. 1,478,600; Dec. 25.
Carillon, Eugene L., Bedford, Ohio. Radiator-thawing means. 1,478,422; Dec. 25.
Carpentsy, William A., Newark, N. J. License-plate holder. 1,478,423; Dec. 25.
Carr-Lowrey Glass Co. (See Newell, Louis B., assignor.)
Carver, Fred S., East Orange, N. J. Automatic press.
Carver, Fred S., Newark, N. J. Compound compression pump. 1,478,469; Dec. 25. 1,478,699; Dec. 25.
Casale Ammonia Company. (See Casale, Luigi, assignor.)
Casale, Luigi, Rome, Italy, assignor to Casale Ammonia Company, Lugano, Switzerland. Catalytic apparatus for the synthesis of ammonia. 1,478,549; Dec. 25.
Casale, Luigi, Rome, Italy, assignor to Casale Ammonia Company, Lugano, Switzerland. Catalytic apparatus for the synthesis of ammonia. 1,478,550; Dec. 25.
Case, Lynn B., assignor to Standard Wall Paper Co., Hudson Falls, N. Y. Unit drier. 1,478,938; Dec. 25.
Castle, George F., assignor of one-half to L. D. Castle, East Cleveland, Ohio. Accelerator for automobiles. 1,478,599; Dec. 25.
Castle, Lewis D. (See Castle, George F., assignor.)
Cave, Walter T., Redditch, assignor of two-thirds to P. E. Baker, Birmingham, Warwick, England. Piston for internal-combustion and other engines. 1,478,733; Dec. 25.
Cavilla, Rogelio J., New York, N. Y. Egg boiler. 1,478,939; Dec. 25.
Cawthron, George, Redwood City, Calif., assignor to Axford and De Shields, San Jose, Calif. Door knocker. Des. 63,611; Dec. 25.
Cederberg, Ivar W., Berlin-Steglitz, Germany, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Purifying gases for ammonia synthesis. 1,478,889; Dec. 25.
Chalas, Adolphe, Neuilly, France. Preparing of dry and soluble extract of roasted coffee. 1,478,940; Dec. 25.
Chambers Brothers Company. (See Staley, Raleigh H., assignor.)
Champion Shoe Machinery Company. (See Dobyne, Stephen A., assignor.)
Chapin, Alfred H., et al. (See Smith, Hazor J., assignor.)
Chapman, Alfred W., assignor to The Donley Brothers Company, Cleveland, Ohio. Package-receiver lock. 1,478,552; Dec. 25.
Chatfield, Henry F., Syracuse, N. Y. Chair. Des. 63,612; Dec. 25.
Chenéau, Louis J. J. B., Paris, France. Haulage and like system and apparatus. 1,478,890; Dec. 25.
Cheney Talking Machine Company. (See Hitchner, Joseph C., assignor.)
Chicago Railway Equipment Company. (See Hawkins, Arthur W., assignor.)
Chicago Trust Company, trustee. (See Kus, Thomas G., assignor.)
Clark, Warren L., New York, N. Y. Forming interchangeable sign letters. 1,478,553; Dec. 25.
Clayden, Arthur, Richmond, England. Crane. 1,478,636; Dec. 25.
Cleveland Industrial Development Company, The. (See Kraber, George L., assignor.)
Cleven, Axel, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Instrument bezel. Des. 63,613; Dec. 25.
Clifford, Patrick, Wallula, Wash. Trackman's car. 1,478,637; Dec. 25.
Climax Heel Company, The. (See Hornquist, Frank, assignor.)
Cohen, Harry M. (See Lenz, C. S., and Cohen.)
Colebrookdale Iron Company. (See Sabold, Oliver W., assignor.)
Combs, Mason, Pineville, Ky. Stopper. 1,478,891; Dec. 25.
Comeau, Joseph, Providence, R. I. Attachment for ladders. 1,478,941; Dec. 25.
Compton, Edward J., assignor of one-third to A. Pritchard and one-third to J. Noel, Kazubazua, Quebec, Canada. Wheat temperer. 1,478,734; Dec. 25.
Conant, Arthur P. (See Wadsworth, A. W., and Conant.)
Cook, Wilfred C., Fresno, Calif. Piston-ring compressor. 1,478,942; Dec. 25.

Cooper, Simon, New York, N. Y., assignor to The Franklin Baker Company, Philadelphia, Pa. Nut-treating machine. 1,478,869; Dec. 25.
Cordes, Henry G., Bremerton, Wash. Electric oscillator. 1,478,638; Dec. 25.
Corl, Robert M., Maumee, assignor, by mesne assignments, to Erie Glass Company, Toledo, Ohio. Glass manufacture. 1,478,554; Dec. 25.
Coulston, Earl V., Rock Island, Ill. Stove-top construction. 1,478,470; Dec. 25.
Counsell, Charles T., assignor to Counsell Film Process and Chemical Company Limited, Sydney, New South Wales, Australia. Treatment of photographic films and apparatus therefor. 1,478,639; Dec. 25.
Counsell Film Process and Chemical Company Limited. (See Counsell, Charles T., assignor.)
Cover, Harvey S., South Bend, Ind. Eye goggles. 1,478,818; Dec. 25.
Coverly, Homer, Los Angeles, Calif. Chair construction. 1,478,640; Dec. 25.
Craig, Mathias, Benton, Ill. Hand bag. Des. 63,614; Dec. 25.
Crass, George F., assignor of one-half to J. H. McCormick, Ithaca, N. Y. Nonskid device for automobiles. 1,478,847; Dec. 25.
Crawley, Mansfield C., Groton, N. Y., assignor to Addograph Company, Los Angeles, Calif. Typewriting machine. 1,478,380; Dec. 25.
Cretors, Charles, Chicago, Ill. Pan for popping corn. 1,478,819; Dec. 25.
Crimmel, Alvie C., Hartford City, Ind. Drawer pull and label holder. 1,478,381; Dec. 25.
Cristiani, Severino. (See Sacerdote, S., and Cristiani.)
Crocker, Ernest B., Stratford, Conn., assignor to Manning, Maxwell & Moore Inc., New York, N. Y. Test gauge pump. 1,478,781; Dec. 25.
Cross, Homer V., Kenton, Tenn., assignor of one-half to C. W. Worden, Buffalo, N. Y. Insect exterminator. 1,478,424; Dec. 25.
Crowell, Frank S., Toledo, Ohio. Bracket for lighting fixture. Des. 63,615; Dec. 25.
Crowell, Frank S., Toledo, Ohio. Lantern for lighting fixture. Des 63,616; Dec 25.
Crowell, Frank S., Toledo, Ohio. Lantern for lighting fixture. Des. 63,617; Dec. 25.
Crowell, Frank S., Toledo, Ohio. Lantern for lighting fixture. Des. 63,618; Dec. 25.
Crowell, Frank S., Toledo, Ohio. Bracket for lighting fixture. Des. 63,619; Dec. 25.
Crowell, Frank S., Toledo, Ohio. Bracket for lighting fixture. Des. 63,620; Dec. 25.
Crowell, Frank S., Toledo, Ohio. Bracket for lighting fixture. Des. 63,621; Dec. 25.
Crowell, Frank S., Toledo, Ohio. Bracket for lighting fixture. Des. 63,622; Dec. 25.
Crowell, Frank S., Toledo, Ohio. Chandelier for lighting fixture. Des. 63,622; Dec. 25.
Crowell, Frank S., Toledo, Ohio. Bracket for lighting fixture. Des. 63,622; Dec. 25.
Crowell, Frank S., Toledo, Ohio. Chandelier for lighting fixture. Des. 63,623; Dec. 25.
Crowell, Frank S., Toledo, Ohio. Chandelier for lighting fixture. Des. 63,624; Dec. 25.
Crowell, Frank S., Toledo, Ohio. Chandelier for lighting fixture. Des. 63,625; Dec. 25.
Crowell, Frank S., Toledo, Ohio. Chandelier for lighting fixture. Des. 63,626; Dec. 25.
Crowell, Frank S., Toledo, Ohio. Chandelier for lighting fixture. Des. 63,627; Dec. 25.
Crowell, Frank S., Toledo, Ohio. Chandelier for lighting fixture. Des. 63,628; Dec. 25.
Crowell, Frank S., Toledo, Ohio. Ceiling fixture for lighting fixture. Des. 63,629; Dec. 25.
Crowell, Frank S., Toledo, Ohio. Ceiling fixture for lighting fixture. Des. 63,630; Dec. 25.
Crowell, Frank S., Toledo, Ohio. Chandelier for lighting fixture. Des. 63,631; Dec. 25.
Crowell, Frank S., Toledo, Ohio. Bracket for lighting fixture. Des. 63,632; Dec. 25.
Crumley, Le Roy A., assignor to I. J. Tombacher, New York, N. Y., and H. M. Feltenstein, Chicago, Ill., copartners, doing business as M. Eisenberg & Son. Lighting fixture. Des. 63,633; Dec. 25.
Crumley, Le Roy A., assignor to I. J. Tombacher, New York, N. Y., and H. M. Feltenstein, Chicago, Ill., copartners, doing business as M. Eisenberg & Son. Lighting-fixture frame. Des. 63,634; Dec. 25.
Crumley, Le Roy A., assignor to I. J. Tombacher, New York, N. Y., and H. M. Feltenstein, Chicago, Ill., copartners, doing business as M. Eisenberg & Son. Lighting-fixture panel. Des. 63,635; Dec. 26.
Crumley, Le Roy A., assignor to I. J. Tombacher, New York, N. Y., and H. M. Feltenstein, Chicago, Ill., copartners doing business as M. Eisenberg & Son. Bracket for lighting fixtures or similar articles. Des. 63,636; Dec. 25.
Cummins, Norman W., Bridgeport, Conn., assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricant compressor. 1,478,848; Dec. 25.
Curtiss, George E., assignor to Landers, Frary and Clark, New Britain, Conn. Coffeepot. Des. 63,637; Dec. 25.
Custer, John. (See Rotter, Theodore, assignor.)
Czapkowsky, Wincanty, Hartford, Conn. Window fastener. 1,478,735; Dec. 25.
Dahl, Thure E., New York, N. Y. Pedestal for lighting fixtures. Des. 63,638; Dec. 25.
Dahm, Kurt, Milwaukee, Wis. Valve-pin tool. 1,478,555; Dec. 25.
Dain, Joseph, deceased, by J. Dain, jr., administrator, Moline, Ill., assignor to The Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Hay loader. 1,478,556; Dec. 25.
Dain, Joseph, jr., administrator. (See Dain, Joseph, assignor.)
Dain Manufacturing Company of Iowa, The. (See Dain, Joseph, assignor.)
Dance, Edward L., assignor to The New Zealand Cooperative Dairy Company, Limited, Hamilton, Auckland, New Zealand. Manufacture of casein glue. 1,478,943; Dec. 25.
Darnell, William L., Franklin, Tenn. Brake band. 1,478,849; Dec. 25.
Davidson, Thomas E., assignor to Jewel Phonoparts Company, Chicago, Ill. Phonograph tone-arm extension and reproducer mounting. 1,478,700; Dec. 25.
Davis, Abner F. H., Oakland, Calif. Automobile lock. 1,478,850; Dec. 25.
Davis, Frank E., Indianapolis, Ind. Automatic door opener. 1,478,601; Dec. 25.
Davis, Golden C., et al. (See Gompf, Harry V., assignor.)
Davis, Tenney L., Somerville, Mass. Smokeless propellant powder. 1,478,892; Dec. 25.
Davisson, Zadok A., Clarksburg, W. Va. Vehicle brake. 1,478,641; Dec. 25.
Day, William P., assignor to The International Steel Tie Company, Cleveland, Ohio. Method of and means for reconstructing track. 1,478,508; Dec. 25.
Dayton Steel Foundry Company, The. (See Walkley, Frank H., assignor.)
Dayton Steel Foundry Company, The. (See Walther, G., and Winters, assignors.)
Dayton Steel Foundry Company, The. (See Walther, George, assignor.)
Delco-Light Company. (See Bechtold, R. E., and Mellowes, assignors.)
Deutsche Werke Aktiengesellschaft. (See Toussaint, H. and Fluck, assignors.)
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Shoe-staying machine. 1,478,602; Dec. 25.
Dewey, Bradley, Cambridge, Mass., and H. P. Scott, jr., Wilmington, Del. Top for can bodies. 1,478,782; Dec. 25.
Dickinson, Guy, Little Rock, Ark. Exhibitor. 1,478,425; Dec 25.
Diehl, Frederick, assignor to Diehl Maufacturing Co., Elizabeth, N. J. Controller. 1,478,701; Dec. 25.
Diehl Maufacturing Co. (See Diehl, Frederick, assignor.)
Diescher, S., & Sons. (See Diescher, Samuel E., assignor.)
Diescher, Samuel E., Wilkinsburg, Pa., assignor to S. Diescher & Sons. Roll for rolling mills. 1,478,509; Dec. 25.
Donne, John C., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. 1,478,702; Dec. 25.
Dobyne, Stephen A., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Fastener-stock-supplying mechanism for fastener-inserting machines. 1,478,603; Dec. 25.
Dodge, Harry H., Buffalo, N. Y. Low-pressure gas burner. 1,478,383; Dec. 25.
Dolbear, Samuel H., San Francisco, Calif., assignor to Pneumatic Process Flotation Company, New York, N. Y. Apparatus for the concentration of ores. 1,478,703; Dec. 25.
Donley Brothers Company, The. (See Chapman, Alfred W., assignor.)
D'Onofrio, Luigi, New York, N. Y. Mechanism for dispensing ingredients. 1,478,834; Dec. 25.
Dorrance, Mae, Smithfield, Ohio. Hospital pad or cushion. 1,478,557; Dec. 25.
Dorsch, Albert A., Milwaukee, Wis. Chart. 1,478,384; Dec. 25.
Dowding, John P., Chicago, Ill. Car refrigeration. 1,478,471; Dec. 25.
Doyle, John T., San Francisco, Calif. Track gauge. 1,478,604; Dec. 25.
Drees, Clemens J., Little Rock, Ark., assignor to St. Louis Brass Manufacturing Company, St. Louis, Mo. Lighting fixture. 1,478,870; Dec. 25.
Dresdner, Jack. (See Taylor, H. O., and Dresdner.)
Drufva, John T., Longmeadow, Mass., assignor to Henry Hyman & Co., Inc., New York, N. Y. Portable electric light. Re15,735; Dec. 25.
Duda, Wentzel R., Pittsburgh, Pa. Feed table for shearing mechanism. 1,478,991; Dec. 25.
Dueker, Carl, Cooper Township, Webster County, Iowa. Husking mechanism for corn-harvesting machines. 1,478,426; Dec. 25.
Duffy, Thomas I., assignor to L. E. Bower, Chicago, Ill. Lamp body. Des. 63,639; Dec. 25.
Dufty, Noël E., London, England. Shock-absorbing device for spring-supported vehicles. 1,478,642; Dec. 25.
Dulaney, Richard O., Fort Worth, Tex. Pump. 1,478,427; Dec. 25.
Duncan, David, Brooklyn, N. Y. Antitilting device for tractors. 1,478,428; Dec. 25.
Dunlap, Charles K., assignor to Sonoco Products Company, Hartsville, S. C. Device for winding convolute tubes. 1,478,944; Dec. 25.
Du Pont, E. I., de Nemours & Company. (See Andreau, Roland L., assignor.)
Durant Motors Incorporated. (See Sturt, Alfred T., assignor.)

Dusek, Joseph, New York, N. Y. Tobacco-user's appliance. 1,478,310; Dec. 25.
Dwyer, Raymond B., Oak Park, Ill. Drapery hanger. 1,478,820; Dec. 25.
Dye, Glen M., Minneapolis, Minn. Method and apparatus for drying photographic films. 1,478,385; Dec. 25.
Dyett, James H., assignor to Hard Manufacturing Co., Buffalo, N. Y. Bedstead end frame. Des. 63,640; Dec. 25.
Eastman Kodak Company. (See Capstaff, John G., assignor.)
Eberman, Sidney R., and C. W. Ferris, Homestead, Pa. Device for creasing trousers. 1,478,386; Dec. 25.
Edgerton, B. G. (See Meister, Herman, assignor.)
Edwards, John C., Utica, N. Y. Adjustable rail brace. 1,478,558; Dec. 25.
Egloff, Gustav, New York, N. Y. Treating hydrocarbons. 1,478,559; Dec. 25.
Eisenberg, M., & Son. (See Crumley, Le Roy A., assignor.)
Electric Arc Cutting & Welding Company. (See Holslag, Claude J., assignor.)
Elliott, Alah W., Santa Paula, Calif. Fishing-rod tip and guide for fishing lines. 1,478,643; Dec. 25.
Elliott, Henry D. (See Simons, J. T., Elliott, and Stoney.)
Emerson, Alfred W., Millbridge, Me. Window lock. 1,478,871; Dec. 25.
Erfle, Heinrich, assignor to the Firm of Carl Zeiss, Jena, Germany. Ocular. 1,478,704; Dec. 25.
Erickson, Charles F., Brooklyn, N. Y. Rim for vehicle wheels. 1,478,803; Dec. 25.
Erie Glass Company. (See Corl, Robert M., assignor.)
Erste Deutsche Kunstdruck-Papierfabrik Carl Scheufelen. (See Scheufelen, A., and Schumacher, assignors.)
Estes, Robert L., Tiplersville, Miss. Seed planter. 1,478,894; Dec. 25.
Eureka Rough Dry Pin System Co. (See Hanney, Angus F., assignor.)
Evans, Alva A. (See Wetz, T. H., and Evans.)
Evans, Charles E., Seattle, Wash. Bundle binding and tying machine. 1,478,560; Dec. 25.
Evans, William A., Fort Washington, assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa. Distributor and making the same. 1,478,705; Dec. 25.
Faessel, Michael, assignor to Loxon Piston and Ring Company, Seattle, Wash. Piston and piston ring. 1,478,561; Dec. 25.
Farnum, William C., Fitchburg, Mass. Screw-cutting machine. 1,478,851; Dec. 25.
Farr, Ernest W., et al. (See Maranville, Harvey F., assignor.)
Farris, Grover C., Norfolk, assignor to C. R. Anderson, Ocean View, Va. Carburetor. 1,478,895; Dec. 25.
Fawell, Joseph E., Pittsburgh, Pa. Rolling mill. 1,478,992; Dec. 25.
Fellows, Edwin R., assignor to The Fellows Gear Shaper Company, Springfield, Vt. High-speed gear shaper. 1,478,472; Dec. 25.
Fellows Gear Shaper Company, The. (See Fellows, Edwin R., assignor.)
Ferency, Steve, Canton, Ohio. Combined note holder and cap remover for bottles. 1,478,896; Dec. 25.
Ferriday, Robert, Cleveland, Ohio. Garter. 1,478,783; Dec. 25.
Ferris, Charles W. (See Eberman, S. R., and Ferris.)
Fetters, Charles A., assignor to Xlent Company, Washington, D. C. Reversible sign. 1,478,511; Dec. 25.
Fischer, Max F., Arvada, Colo. Attachment for screen doors. 1,478,644; Dec. 25.
Fisher, Andrew S., assignor of one-half to W. H. Fisher, Altoona, Pa. Wrench. 1,478,512; Dec. 25.
Fisher, William H. (See Fisher, Andrew S., assignor.)
Fisk, Jesse F., Chesterton, Ind., assignor to Armour Grain Co., Chicago, Ill. Car-door opener. 1,478,562; Dec. 25.
Flauder, Alfred J., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Pitcher or similar article. Des. 63,641; Dec. 25.
Flintkote Company, The. (See Bird, Reginald W., assignor.)
Fluck, Hugo. (See Toussaint, H., and Fluck.)
Foote, Charles E., assignor to The Foote Company, Nunda, N. Y. Boom and bucket for concrete pavers. 1,478,945; Dec. 25.
Foote Company, The. (See Foote, Charles E., assignor.)
Forker, Edwin L., Los Angeles, Calif. Hinge pin. 1,478,706; Dec. 25.
Forrest, Oscar E. (See Mallett, C. S., Forrest, and Monie.)
Fortoni, Luigi, London, England. Music typewriter. 1,478,946; Dec. 25.
Foster, Daniel M., Youngstown, Ohio. Mounting for thermocouple wells. 1,478,821; Dec. 25.
Franklin Baker Company, The. (See Cooper, Simon, assignor.)
Frazier, Charles E., Breckenridge, Tex. Pump piston. 1,478,707; Dec. 25.
Frech, Henry C., Savannah, Ga. Key ring. 1,478,897; Dec. 25.
Fretz, Warren J., St. Paul, Minn. Ear tag. 1,478,605; Dec. 25.
Friederich, Walter, Treisdorf, near Cologne, Germany. Primer and making same. 1,478,429; Dec. 25.
Fuge, James W., Featherston, New Zealand. Milking machinery. 1,478,645; Dec. 25.
Furbush, Frank L., Westford, Mass., assignor to C. G. Sargent's Sons Corporation. Device for stripping stock from conveyer aprons. 1,478,784; Dec. 25.
Gadberry, John O., Joplin, Mo. Socket wrench. 1,478,736; Dec. 25.
Gage, Harry W. (See Kirstein, H. E., and Gage.)
Gamble, William, and M. Owen; said Gamble assignor to A. W. Penrose and Company Limited, London, England. Apparatus for applying sheets to printing cylinders. 1,478,947; Dec. 25.
Gamewell Fire Alarm Telegraph Co., The. (See King, George E., assignor.)
Gara, Earl V., Balboa, Calif. Exhaust and water discharge for engines. 1,478,948; Dec. 25.
Garrett, Jesse M., St. Louis, Mo. Burner. 1,478,949; Dec. 25.
Gasche, Karl W., Pittsburgh, assignor to Westinghouse Union Battery Company, Swissvale, Pa. Manufacturing storage batteries. 1,478,708; Dec. 25.
Gaskins, Palemon H., Jacksonville, Fla. Lubricating system. 1,478,543; Dec. 25.
Gat, John D., North Canton, Ohio. Method of and apparatus for decomposing ores. 1,478,822; Dec. 25.
Gauntt, Warren S., Waldron, Mo. Vehicle wheel. 1,478,852; Dec. 25.
Gauss, Paul G., Indianapolis, Ind. Roof-projection ladder support. 1,478,823; Dec. 25.
Gazso, Sandor, San Francisco, Calif. Stop and direction indicator. 1,478,606; Dec. 25.
Gehrandt, Gustav R., Evanston, Ill., assignor, by mesne assignments, to International Earth-Boring Machine Corporation. Tractor. 1,478,824; Dec. 25.
General Electric Company. (See Gosling, Joseph W., assignor.)
General Motors Corporation. (See Perlman, Louis H., assignor.)
Gernsback, Hugo, assignor to Radio Industries Corporation, New York, N. Y. Tuned telephone receiver. 1,478,709; Dec. 25.
Gerrard, Alec J., and P. Wright, Chicago, Ill. Wire-bundling machine. 1,478,514; Dec. 25.
Gill, Charles H., Chicago, Ill. Brake for vehicles. 1,478,646; Dec. 25.
Gilliam, Eugene C., Warner, Okla. Wire-line clamp. 1,478,950; Dec. 25.
Girl, Christian, et al. (See Maranville, Harvey F., assignor.)
Githens, Herbert A., assignor to The Badger Rubber Works, Milwaukee, Wis. Tire. Des. 63,642; Dec. 25.
Glisson, Amos A., Fort Worth, Tex. Means for protecting and identifying passage tickets and baggage checks. 1,478,647; Dec. 25.
Golden, Edward L., Manistee, Mich. Ironing table. 1,478,951; Dec. 25.
Goldsmith, Hugo, assignor to The P. Goldsmith Sons Company, Cincinnati, Ohio. Baseball mask. 1,478,982; Dec. 25.
Goldsmith, Maurice, New York, N. Y. Hand bag. 1,478,737; Dec. 25.
Goldsmith, P., Sons Company, The. (See Goldsmith, Hugo, assignor.)
Gompf, Harry V., assignor of one-third to C. S. Judson and one-third to G. C. Davis, Springfield, Ohio. Strainer for liquid fuel. 1,478,785; Dec. 25.
Goodfellow, Alfred. (See Huston, C. L., and Goodfellow.)
Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone-exchange system. 1,478,607; Dec. 25.
Gosling, Joseph W., Schenectady, N. Y., assignor to General Electric Company. Upright for a lighting unit. Des. 63,643; Dec. 25.
Graddick, Fletcher C. (See Roberts, Jessie J., assignor.)
Graf-Underwood Company. (See Underwood, Percival G., assignor.)
Grahek, John, Chisholm, Minn. Mechanical puller. 1,478,648; Dec. 25.
Gravel, Abundius, assignor to The Willys-Overland Company, Toledo, Ohio. Body construction for motor vehicles. 1,478,387; Dec. 25.
Gray, Dorothy, New York, N. Y. Massage instrument. 1,478,388; Dec. 25.
Greulich, Gerald G., Cleveland, Ohio. Floor tile and floor construction. 1,478,872; Dec. 25.
Gulf Refining Company. (See King, George H., assignor.)
Gulf Refining Company. (See McAfee, Almer M., assignor.)
Gulf Refining Company. (See McElroy, Karl P., assignor.)
Gundlach, Beno J., Belleville, Ill. Apparatus for sharpening reamers. 1,478,563; Dec. 25.
Gustafson, Oscar R., assignor of one-half to G. S. Scott, Chicago, Ill. Rotary cutter head. 1,478,649; Dec. 25.
Haas, Harry L., New York, N. Y. Anode and carrier therefor. 1,478,853; Dec. 25.
Hachman, Elmer E., Baltimore, Md. Headlight reflector. 1,478,898; Dec. 25.
Hadaway, Charles. (See Brown, John H., assignor.)
Hagan, George J., Pittsburgh, assignor to D. S. Wolcott, trustee, Sewickley, Pa. Stoking mechanism. 1,478,515; Dec. 25.

Hajek, Otto, and F. Uiberall, Vienna, Austria. Valveless lubricating pump. 1,478,430; Dec. 25.
Hall, Arthur E., assignor to E. E. Hall, Syracuse, N. Y. Machine for removing the skins from peanuts and the like. 1,478,431; Dec. 25.
Hall, Ellen E. (See Hall, Arthur E., assignor.)
Hallberg, Carl G., Manitowoc, Wis. Window screen. 1,478,899; Dec. 25.
Hallengren, Lloyd, Santa Rosa, Calif. Automobile periscope. 1,478,650; Dec. 25.
Hallett, Reveley A., Harvey, Ill. Reflecting headlight. 1,478,564; Dec. 25.
Hamilton, James, Washington, D. C. Hoisting truck. 1,478,432; Dec. 25.
Handel Maatschappij H. Albert de Bary & Co. (See Hildebrand, Wilhelm, assignor.)
Hanks, Ray H., Henryetta, Okla. Potato digger. 1,478,952; Dec. 25.
Hanney, Angus F., assignor to Eureka Rough Dry Pin System Co., Chicago, Ill. Laundry-tag carrier. 1,478,825; Dec. 25.
Happ, Edward A. (See Happ, Leonard and E. A.)
Happ, Leonard and E. A., Brooklyn, N. Y. Guard. 1,478,953; Dec. 25.
Hard Manufacturing Company. (See Dyett, James H., assignor.)
Hardaker, Ernest R., Jerome, Idaho. Measuring device. 1,478,954; Dec. 25.
Harder Manufacturing Corporation. (See Rowley, A. W., and Ryder, assignors.)
Harder, W. J. (See Hoffman, George A., assignor.)
Harrich, Paul, Rochelle Park, N. J., assignor to New Process Cork Company, Brooklyn, N. Y. Cork-rod baker. 1,478,873; Dec. 25.
Harrington, William F., assignor to The Willys-Overland Company, Toledo, Ohio. Steering-column support. 1,478,389; Dec. 25.
Harris, Albert G., assignor of one-half to T. O. Varble, Louisville, Ky. Combination holder, wrench, and clamp. 1,478,651; Dec. 25.
Harris, Edward B., Portland, Oreg. Safety throttle. 1,478,710; Dec. 25.
Harris, Everett, Linden, assignor of one-half to C. W. Zeigler, Attica, Ind. Timer for internal-combustion engines. 1,478,652; Dec. 25.
Harris, Harry E., Bridgeport, Conn. Hob grinder. 1,478,433; Dec. 25.
Harrison, Anna W., and S. H. Harrison, South Berkeley, Calif. Attachment for electric-iron cords. 1,478,955; Dec. 25.
Harrison, Marion M. (See Morton, H. A., and Harrison.)
Harrison, Simon H. (See Harrison, Anna W. and S. H.)
Harrold, Elmer, Leetonia, Ohio. Exposure meter. 1,478,956; Dec. 25.
Hastedt, William R., assignor to American Thermos Bottle Company, Norwich, Conn. Shock absorber. 1,478,711; Dec. 25.
Hathaway, Harlow H., Phoenix, Ariz. Tire attachment. 1,478,983; Dec. 25.
Hawkins, Arthur W., assignor to Chicago Railway Equipment Company, Chicago, Ill. Third and fourth point support for brake beams. 1,478,565; Dec. 25.
Hawthorne, Ellsworth A., and E. S. Hawthorne, Bridgeport, Conn.; said E. S. Hawthorne assignor to said Ellsworth A. Hawthorne. Automobile mirroscope bracket. 1,478,826; Dec. 25.
Hawthorne, Ellsworth S. (See Hawthorne, Ellsworth A., and E. S.)
Hayward, Arthur E., Swindon, England. Brake slack adjuster for railway vehicles. 1,478,957; Dec. 25.
Hazelett, Clarence W., Lakewood, assignor to The Hazelett Storage Battery Company, Cleveland, Ohio. Assembling storage battery elements. 1,478,786; Dec. 25.
Hazelett Storage Battery Company, The. (See Hazelett, Clarence W., assignor.)
Hazlewood, William A., assignor of one-third to J. H. White, Fort Worth, Tex. Piston for internal-combustion engines. 1,478,608; Dec. 25.
Heaton, Edward C., Harrogate, England. D or stirrup shaped handle. 1,478,854; Dec. 25.
Helen, Ingvald, Hedemarken, Norway. Bitless bridle. 1,478,958; Dec. 25.
Heintz, Samuel, Youngstown, Ohio, assignor, by mesne assignments, to The Republic Rubber Company. Resilient vehicle tire. Des. 63,644; Dec. 25.
Helmhold, J. F., & Bro. (See Lorch, Henry, assignor.)
Hendricks, Dorris F., Russell, Ky. Railway-car journal bearing. 1,478,566; Dec. 25.
Hercules Powder Company. (See Symmes, Ernest M., assignor.)
Herrmann, Wilhelm, New York, N. Y. Machine for automatically shading plants and uncovering same. 1,478,516; Dec. 25.
Herron, James C., assignor to Reflector & Illuminating Co., Chicago, Ill. Color-screen protection and support. 1,478,473; Dec. 25.
Hibner, Amos F. (See Kinton, R. L., and Hibner.)
Hicks, Le Roy, Lyon Mountain, N. Y. Pin-pulling device for drill sharpeners. 1,478,434; Dec. 25.
Higham, Harry, Fenwood, Saskatchewan, Canada. Motor scraper. 1,478,517; Dec. 25.
Hildebrand, Wilhelm, Berlin-Lichtenberg, Germany, assignor to Handel Maatschappij H. Albert de Bary & Co., Amsterdam, Netherlands. Boiler-feed-water heater. 1,478,855; Dec. 25.
Him, Thomas P., Wilkes-Barre, Pa. Portable rheostat for electric-arc welding. 1,478,435; Dec. 25.
Hitchner, Joseph C., Hammonton, N. J., assignor to Cheney Talking Machine Company, Chicago, Ill. Repeating mechanism for talking machines. 1,478,827; Dec. 25.
Hobert, Winceslas B., jr., Jackson, Miss. Swimming appliance. 1,478,959; Dec. 25.
Hobson, John S., assignor to Massey Concrete Products Corporation, Chicago, Ill. Battery receptacle. 1,478,390; Dec. 25.
Hockenberry, James H., Winterset, Iowa. Door-control device. 1,478,856; Dec. 25.
Hockley, Marion J., assignor of one-half to F. Bergner, Ridgway, Colo. Converter for direct-current generators. 1,478,518; Dec. 25.
Hoffman, Carl, Allentown, Pa. Automobile signal. 1,478,857; Dec. 25.
Hoffman, George A., Ness City, assignor of one-half to W. J. Harder, Arnold, Kans. Attachment to thrashing machines. 1,478,960; Dec. 25.
Hoffstaedter, Hugo, New York, N. Y. Automobile tire. Des. 63,645; Dec. 25.
Hokanson, Otto A., assignor to Woodstock Typewriteer Company, Woodstock, Ill. Line finder for typewriters. 1,478,474; Dec. 25.
Holcomb & Hoke Mfg. Co. (See Booth, Earl C., assignor.)
Hollenbeck, Oscar D., assignor to The Racine Horseshoe Tire Company, Racine, Wis. Resilient tire. Des. 63,646; Dec. 25.
Hofman, William W., Washington, D. C. Identification hatband. 1,478,961; Dec. 25.
Holmes, Arthur E., Timaru, New Zealand. Concrete-wall boxing. 1,478,653; Dec. 25.
Holmes, Eugene, Manchester, England. Combing machine. 1,478,609; Dec. 25.
Holslag, Claude J., South Orange, assignor to Electric Arc Cutting & Welding Company, Newark, N. J. Welding electrode. 1,478,738; Dec. 25.
Hoopes, Charles P. and F. P., and W. S. Steele, Toledo, Ohio. Spark plug. 1,478,654; Dec. 25.
Hoopes, Francis P. (See Hoopes, Charles P. and F. P., and Steele.)
Hoopes, Penrose R. (See Lorenz, W. A., and Hoopes.)
Hornquist, Frank, assignor to The Climax Heel Company, Incorporated, Mount Jewett, Pa. Toy vehicle. 1,478,739; Dec. 25.
Hotchkiss, Julia S., Norwalk, Conn. Staple-driving machine. 1,478,858; Dec. 25.
Howard, Earl R., Dubuque, Iowa. Pipe-organ stool. 1,478,567; Dec. 25.
Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Ceiling light for lighting fixtures. Des. 63,647; Dec. 25.
Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Canopy for lighting fixtures. Des. 63,648; Dec. 25.
Howell, Henry M. (See Kaplan, S., and Howell.)
Hruska, George J., Chicago, Ill. Shoe. Des. 63,649; Dec. 25.
Hudson, William C., Keating, Oreg. Haystacker. 1,478,740; Dec. 25.
Hughes, Lloyd E., Kansas City, Kans. Loose-leaf marker for books. 1,478,655; Dec. 25.
Hughes, Robert R., jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Differential feeding mechanism for sewing machines. 1,478,519; Dec. 25.
Hulley, Minnie S., Woodhaven, N. Y. Protective apron. 1,478,962; Dec. 25.
Hungerford, Warren H. (See Peters, F. M., and Hungerford.)
Hunt, Edwin W. (See Marriott, O. M., Hunt, and Kirby.)
Huston, Charles L., and A. Goodfellow, Coatesville, Pa. Clamping device for rotary shears. 1,478,900; Dec. 25.
Huth, Carl G., Port Byron, N. Y. Railway gate. 1,478,741; Dec. 25.
Huth, Carl G., Port Byron, N. Y. Audible signal for railways. 1,478,742; Dec. 25.
Hyle, Jacob A., Philadelphia, Pa. Combined tie plate and rail anticreeper. 1,478,787; Dec. 25.
Hyman, Henry, & Co. (See Drufva, John T., assignor.)
Imparato, Vincenzo, Long Island City, N. Y. Doorbell. 1,478,391; Dec. 25.
Ingold, Fredrick C., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Method and apparatus for inserting support wires. 1,478,859; Dec. 25.
Instant Changeable Tire Rim Co. Inc. (See Kaplan, S., and Howell, assignors.)
International Earth-Boring Machine Corporation. (See Gehrandt, Gustav R., assignor.)
International Precipitation Company. (See Schmidt, Arthur A., assignor.)
International Silver Company. (See Kintz, Alfred G., assignor.)
International Steel Tie Company, The. (See Day, William P., assignor.)
Jackoboice, Edward J., Grand Rapids, Mich. Road scraper. 1,478,436; Dec. 25.
Jaenecke, Karl F. W., assignor to Spillman Engineering Corporation, North Tonawanda, N. Y. Attachment for carrousels. 1,478,743; Dec. 25.

Jago, Alfred C., and E. A. Wade, Croydon, England. Advertising device for road and other vehicles. 1,478,475; Dec. 25.
James, Sidney V., Niagara Falls, N. Y., assignor to The Simeon L. and George H. Rogers Company. Spoon or similar article. Des. 63,650; Dec. 25.
Jamison, John, Lafayette, Colo. Clutch. 1,478,656; Dec. 25.
Jenkins, Alexander F., Baltimore, Md. Carbide holder for acetylene generators. 1,478,476; Dec. 25.
Jewel Phonoparts Company. (See Davidson, Thomas E., assignor.)
Johns-Manville, Incorporated. (See McClure, Benjamin C., assignor.)
Johnson, Samuel P., Ethelsville, Ala. Hook. 1,478,520; Dec. 25.
Jones, Ernest H., London, England. Tire and manufacture of the same. 1,478,788; Dec. 25.
Jones, Harry C., Larchmont, assignor to Lithoprintex Corporation, New York, N. Y. Vacuum frame for printing upon sensitized surfaces. 1,478,828; Dec. 25.
Jones, James E., Washington, D. C. Holding and serving device for toilet-seat coverings. 1,478,744; Dec. 25.
Jones, Roscoe C., Jefferson, N. Y. Piston. 1,478,963; Dec. 25.
Jotzen, Heinrich, Barmen, Germany. Device for cleaning the felt of paper and cardboard making machines during their operation. 1,478,712; Dec. 25.
Judson, Charles S., et al. (See Gompf, Harry V., assignor.)
Kansas City Gasoline Company, The. (See Wellman, Frank E., assignor.)
Kaperzenski, Stanley, Detroit, Mich. Combined sword and revolver. 1,478,568; Dec. 25.
Kaplan, Samuel, and H. M. Howell, assignors to Instant Changeable Tire Rim Co. Inc., Monroe, La. Wheel for automobiles. 1,478,437; Dec. 25.
Kearney, Dennis B., Keene, N. H. Combined detergent receptacle and brush. 1,478,392; Dec. 25.
Kebler, Leonard, Bronxville, N. Y., assignor to Ward Leonard Electric Company. Electric-motor controller. 1,478,713; Dec. 25.
Kelly, Richard D., The Dalles, Oreg. Water wheel. 1,478,657; Dec. 25.
Kem, Huxley D., Portland, Oreg. Stencil and making and using the same. 1,478,745; Dec. 25.
Kerrick, Walter E., Los Angeles, Calif. Wheel. Re. 15,736; Dec. 25.
Kershner, Benjamin V., Kansas City, Mo., assignor to Union Special Machine Company, Chicago, Ill. Waistband for trousers. 1,478,521; Dec. 25.
Kerwin, Patrick. (See McCloud, E. L., and Kerwin.)
King, George H., Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Mixing and delivering oil and aluminum chloride. 1,478,438; Dec. 25.
King, George E., Newton, assignor to The Gamewell Fire Alarm Telegraph Co., Newton Upper Falls, Mass. Signal-device-operating mechanism. 1,478,901; Dec. 25.
King, Rufus, Plainville, assignor to Bugbee & Niles Company, North Attleboro, Mass. Ribbon-bracelet clasp. 1,478,658; Dec. 25.
King, Rufus, Plainville, assignor to Bugbee & Niles Company, North Attleboro, Mass. Buckle. 1,478,659; Dec. 25.
Kingsley, Lee, Syracuse, N. Y. Loose-leaf-binder book. 1,478,522; Dec. 25.
Kingsmill, Henry L., Preston, England. Apparatus for darning woven or knitted articles or fabrics. 1,478,984; Dec. 25.
Klinton, Robert L., Meyersdale, and A. F. Hibner, Connellsville, Pa. Fire-brick mold. 1,478,746; Dec. 25.
Klintz, Alfred G., Wallingford, assignor to International Silver Company, Meriden, Conn. Spoon or similar article. Des. 63,651; Dec. 25.
Kinyoun, Floyd H., Omaha, Nebr. Airplane starting and landing device. 1,478,747; Dec. 25.
Kirby, Edmund B., New York, N. Y. Blast-furnace construction. 1,478,439; Dec. 25.
Kirby, Ernest V. (See Marriott, O. M., Hunt, and Kirby.)
Kirby Manufacturing Company, The. (See Otterbein, Arthur, assignor.)
Kirstein, Henry E., and H. W. Gage, assignor to Shur-On Optical Co., Inc., Rochester, N. Y. Ophthalmic mounting. 1,478,661; Dec. 25.
Klay, Abraham B., deceased, Modesto, Calif.; J. J. Klay, executor. Bearing and gear removing tool. 1,478,964; Dec. 25.
Klay, John J., executor. (See Klay, Abraham B.)
Kleystenber, Willie J., Centralia, Ill. Measuring instrument and drill guide. 1,478,477; Dec. 25.
Knowles, Cecil S., Seattle, Wash. Heating stove. 1,478,662; Dec. 25.
Koppers Company, The. (See Bird, Eugene H., assignor.)
Kozma, Andy, Lovilla, Iowa. Belt buckle. 1,478,965; Dec. 25.
Kraber, George L., Portland, Oreg., assignor, by mesne assignments, to The Cleveland Industrial Development Company, Cleveland, Ohio. Portable planer. 1,478,569; Dec. 25.
Kraft, Henry P., Ridgewood, N. J. Deflating valve cap. 1,478,610; Dec. 25.
Kreutzberg, Otto A., Lake Bluff, Ill. Pulverizing apparatus. 1,478,478; Dec. 25.
Kriesel, (Mrs.) Gustave F. (See Tillman, Joseph T., assignor.)
Kuehl Candy Co., The. (See Sprague, Edward, jr., assignor.)
Kuhn, William B., Shelby, Ohio. Railway-crossing signal. 1,478,663; Dec. 25.
Kus, Thomas G., assignor, by mesne assignments, to Chicago Trust Company, trustee, Chicago, Ill. Coke oven. 1,478,570; Dec. 25.
La Batt, William D., Chicago, assignor to E. J. Cady, Oak Park, Ill. Micrometer calipers. 1,478,664; Dec. 25.
Lachmann, Walter, Dresden, Germany. Process and apparatus for utilizing liquefied gases. 1,478,479; Dec. 25.
La Londe, William S., Evanston, Ill. Electric switch. 1,478,523; Dec. 25.
Lalor, John C. (See Middleton, Percy R., assignor.)
Lalor, Willard A., executor. (See Middleton, Percy R.)
Lanchester, Frederick W., London, England. Control mechanism of power-propelled vehicles. 1,478,966; Dec. 25.
Landers, Frary and Clark. (See Curtiss, George E., assignor.)
Landreth, Clarence P., Philadelphia, Pa. Liquid-treating apparatus. 1,478,714; Dec. 25.
Lane, Sherman E., Canon City, Colo. Collapsible bed for automobiles. 1,478,611; Dec. 25.
Lauke, Max, North Bergen, N. J. Automatic recording device. 1,478,612; Dec. 25.
Law, James C., Scranton, Pa. Horseshoe pad. 1,478,874; Dec. 25.
Lawrence, Joseph A., Lindsay, Okla. Churn. 1,478,748; Dec. 25.
Lee, Samuel A., New York, N. Y. Tool holder. 1,478,967; Dec. 25.
Lee, Thomas L., assignor to North East Electric Company, Rochester, N. Y. Brush rigging. 1,478,665; Dec. 25.
Leitzell, Samuel B., Butler, Pa. Auto brake. 1,478,969; Dec. 25.
Lenz, Charles S., and H. M. Cohen, New York, N. Y. Making meat casings. 1,478,968; Dec. 25.
Leon, L. J., Mfg. Co. (See Leon, Lewicki J., assignor.)
Leon, Lewicki J., assignor to L. J. Leon Mfg. Co., Chicago, Ill. Catch for bird cages. 1,478,440; Dec. 25.
Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Perforating. 1,478,441; Dec. 25.
Liberman, Bernard and L., and W. M. Reichart, Philadelphia, Pa.; said L. Liberman and said Reichart assignors to said Bernard Liberman. Cigar-bunching machine. 1,478,829; Dec. 25.
Liberman, Leon. (See Liberman, Bernard and L., and Reichart.)
Liggett, Hugh C., R. Peterson, and S. W. Liggett, Saline-ville, Ohio. Mine-door-operating mechanism. 1,478,970; Dec. 25.
Liggett, Sherman W. (See Liggett, H. C. Peterson, and Liggett.)
Lilly, William J., Chicago, Ill. Lettering appliance. 1,478,524; Dec. 25.
Lindeman, Jesse G., Yakima, Wash. Orchard disk or harrow. 1,478,830; Dec. 25.
Lisoy, Abraham L., Dallas, Tex. Watchman's time-recording device. 1,478,666; Dec. 25.
Lithoprintex Corporation. (See Jones, Harry C., assignor.)
Livenspargar, Charles F., Doniphan, Mo. Exterior adjuster for journal bearings. 1,478,393; Dec. 25.
Lofton, Herbert M., Chattanooga, Tenn. Composite T rail. 1,478,715; Dec. 25.
Long, John, Jefferson City, and A. J. Bass, Columbia, Mo. Farm wagon. 1,478,831; Dec. 25.
Longfellow, Martin W., Baltimore, Md., assignor to The Baltimore Gas Appliance & Manufacturing Company. Attachment for gas ranges. 1,478,749; Dec. 25.
Lorch, Henry, assignor to J. F. Helmhold & Bros., Chicago, Ill. Hand press. 1,478,443; Dec. 25.
Lorenz, William A., and P. R. Hoopes, assignors to J. R. Rabbett, Hartford, Conn. Space-band cleaner. 1,478,442; Dec. 25.
Lovejoy, Louis B., assignor to The Warner Brothers Company, Inc., Bridgeport, Conn. Garment supporter. 1,478,716; Dec. 25.
Lowder, Lillian C., Indianapolis, Ind. Toy. Des. 63,652; Dec. 25.
Lowe, Clyde E., Cleveland, Ohio. Mandrel for tire tube. 1,478,480; Dec. 25.
Loxon Piston and Ring Company. (See Faessel, Michael, assignor.)
Lucas, Paul, Berlin-Friedenau, Germany. Vapor lamp, especially hydrocarbon incandescence lamp. 1,478,717; Dec. 25.
Ludwig, Herman T., San Francisco, Calif. Garbage destructor. 1,478,875; Dec. 25.
Lunmsden, Thomas, Gateshead-on-Tyne, England. Surface-grinding machine. 1,478,971; Dec. 25.
Lundquist, Hendrick W., San Diego, Calif. Vehicle direction indicator. 1,478,571; Dec. 25.
Lyman, Charles E., Asheville, N. C. Road signal. 1,478,972; Dec. 25.
Lynn, Thomas H. (See Steel, C. C., and Lynn.)
McAfee, Almer M., Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Distilling oil with aluminum chloride. 1,478,444; Dec. 25.

McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,478,667; Dec. 25.
McCarty, Dwight G., Emmetsburg, Iowa. Sorting table or file-distributing device. 1,478,876; Dec. 25.
McCloud, Edward L., Esparto, and P. Kerwin, Manchester, Calif. Power pipe tongs. 1,478,668; Dec. 25.
McClure, Benjamin C., Hartsdale, N. Y., assignor to Johns-Manville, Incorporated. Automatic leak detector. 1,478,445; Dec. 25.
McCormick, John H. (See Crass, George F., assignor.)
McCoy Cotton Machinery Corporation. (See McCoy, William D., assignor.)
McCoy, William D., Brooklyn, N. Y., assignor to McCoy Cotton Machinery Corporation. Ginning and cleaning machine. 1,478,572; Dec. 25.
McDonald, Ralph H., Scio, Oreg. Drag saw. 1,478,573; Dec. 25.
McElroy, Karl P., Washington, D. C., assignor to Gulf Refining Company, Pittsburgh, Pa. Process of and apparatus for condensation. 1,478,750; Dec. 25.
McMordie, William E., Hamilton, Tex. Clothes cleaner. 1,478,973; Dec. 25.
McNamara, John V., Troy, N. Y. Collar. 1,478,988; Dec. 25.
McNish, Harvey, Attica, Kans. Railway-crossing gate. 1,478,446; Dec. 25.
MacKenzie, Henry, Stanmore, Alberta, Canada. Swimming buoy. 1,478,525; Dec. 25.
MacLean, George H., New Haven, Conn. Batch-measuring hopper. 1,478,751; Dec. 25.
Magrath, George H., Whitinsville, Mass. Bobbin clutch. 1,478,789; Dec. 25.
Maier, John D., Charlestown, Md. Tobacco pipe. 1,478,976; Dec. 25.
Mallett, Charles S., O. E. Forrest, and D. Monie, assignors to The Canadian General Electric Co. Ltd., Toronto, Ontario, Canada. Electrical fuse plug. 1,478,752; Dec. 25.
Maloney, Thomas J., St. Louis, Mo. Chandelier. Des. 63,653; Dec. 25.
Manning, Maxwell & Moore Inc. (See Crocker, Ernest B., assignor.)
Maple, R. H., Co. (See Maple, Roy H., assignor.)
Maple, Roy H., assignor to R. H. Maple Co., Indianapolis, Ind. Self-soldering circuit breaker. 1,478,481; Dec. 25.
Maranville, Harvey F., Akron, assignor of one-third to C. Girl, Cleveland, and one-third to E. W. Farr, Lakewood, Ohio. Window frame for curtains and like articles. 1,478,447; Dec. 25.
Marcotte, George E., Chicago, Ill. Automatic weather stripping. 1,478,974; Dec. 25.
Marr, Alexander, Manchester, England. Acoustic instrument. 1,478,574; Dec. 25.
Marriott, Oscar M., E. W. Hunt, and E. V. Kirby, Urbana, Ill. Tractor attachment hitch. 1,478,482; Dec. 25.
Marsh, Clifford W., Bridgeport, Conn. Typewriting machine. 1,478,877; Dec. 25.
Martin, John C., Terre Haute, Ind. Deposit and collection receptacle. 1,478,977; Dec. 25.
Massey Concrete Products Corporation. (See Hobson, John S., assignor.)
Mathis, Alfred, Eldorado, Ill. Wheel. 1,478,978; Dec. 25
Matthews, Richard B., East Grinstead, England. Means for keeping accounts and composing account books. 1,478,975; Dec. 25.
Mattingly Automatic Valve Co. (See Mattingly, Charles F., assignor.)
Mattingly, Charles F., assignor to Mattingly Automatic Valve Co., St. Louis, Mo. Automatic fountain valve. 1,478,669; Dec. 25.
Mattingly, Charles F., assignor to Mattingly Automatic Valve Co., St. Louis, Mo. Valve. 1,478,670; Dec. 25.
Mattison, Carl L., assignor to Mattison Machine Works, Rockford, Ill. Abrading or polishing machine. 1,478,575; Dec. 25.
Mattison Machine Works. (See Mattison, Carl L., assignor.)
Mead, Henry B., Cleveland, Ohio. Cap for valve stems. 1,478,448; Dec. 25.
Mechano Gear Shift Company. (See Richardson, Bayard E., assignor.)
Meister, Herman, Milwaukee, assignor, by mesne assignments, to B. G. Edgerton, Oconomowoc, Wis. Rocking-horse. 1,478,449; Dec. 25.
Mellowes, Alfred W. (See Bechtold, R. E. and Mellowes.)
Melton, Charles D., Eustace, Tex. Press. 1,478,450; Dec. 25.
Menke, William C. (See Schepman, Frederick W., assignor.)
Menzer, Albert N., and F. Mintmier, Johnstown, Pa. Antislipping attachment for motor-vehicle tires. 1,478,613; Dec. 25.
Merrell, Oliver E., assignor to Merrell-Soule Company, Syracuse, N. Y. Process and apparatus for removing a vaporizable substance from powdered material. 1,478,526; Dec. 25.
Merrell-Soule Company. (See Merrell, Oliver E., assignor.)
Metal Saw and Machine Company, Inc. (See Stowell, B. F., and Washburn, assignors.)
Metals Recovery Company. (See Bragg, Gilbert A., assignor.)
Metz, Stanley M., Langley Field, Va. Fuel-supply system. 1,478,878; Dec. 25.
Meurisse, Charles C., Chicago, Ill. Polo mallet. 1,478,483; Dec. 25.
Meyer, Adolf, Zurich, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Means for fastening the blades in gas turbines and steam turbines. 1,478,902; Dec. 25.
Meyer, Henry, Anderson, Ind. Self-sealing pocket. 1,478,484; Dec. 25.
Middleton, Percy R., assignor of one-half to J. C. Lalor, deceased, New York, N. Y.; W. A. Lalor, executor. Roasting sulphide ores. 1,478,790; Dec. 25.
Miller, Chester D., Los Angeles, Calif. Wind deflector. 1,478,671; Dec. 25.
Miller Rubber Company, The. (See Morton, H. A., and Harrison, assignors.)
Mills, Thos., & Bro., Inc. (See Smith, William C., assignor.)
Minneapolis Bedding Company. (See Walstrom, Charles W., assignor.)
Mintmier, Frederick. (See Menzer, A. N., and Mintmier.)
Molgard, Peter C. (See Steel, Edward R., and Molgard.)
Monie, David. (See Mallett, C. S., Forrest, and Monie.)
Mooij, Adriaan C. P., Heemstede, Netherlands. Sowing machine. 1,478,753; Dec. 25.
Moore, James E., Chanute, Kans. Dispensing device. 1,478,754; Dec. 25.
Moorhouse, Sadie M. (See Rieske, Louis, assignor.)
Morgan & Wright. (See O'Brien, Raymond J., assignor.)
Morgan, James R. (See Barnes, G. C., and Morgan.)
Morrell, Jacque C., New York, N. Y. Artificial or synthetic charcoal and producing the same. 1,478,985; Dec. 25.
Morrell, Jacque C., New York, N. Y. Manufacture of artificial charcoal. 1,478,986; Dec. 25.
Morrell, Jacque C., Chicago, Ill. Production of adsorbent charcoal. 1,478,987; Dec. 25.
Morse, Albert W., Long Island City, N. Y. Hand-operated pump. 1,478,485; Dec. 25.
Morterud, Einar, Torderod, near Moss, assignor to A/S Cellulosepatenter, Christiania, Norway. Digesting wood pulp. 1,478,614; Dec. 25.
Morton, Albert H., Lowell, Mass. Pick counter for looms. 1,478,903; Dec. 25.
Morton, Harold A., and M. M. Harrison, assignors to The Miller Rubber Company, Akron, Ohio. Patch and making same. 1,478,576; Dec. 25.
Mossberg, Frank, Company. (See Tuttle, Walter 1., assignor.)
Mulholland, James F., Columbus, Ohio. Toy balloon. 1,478,755; Dec. 25.
Mullin, Frank, Elyria, assignor to The Willys-Overland Company, Toledo, Ohio. Drill. 1,478,451; Dec. 25.
Murphy, P., H., Company. (See Bonsall, Charles D., assignor.)
Murray Company, The. (See Woodford, Bronson C., assignor.)
Muzzi, Antonio, C. Bibolini, and L. Vincina, Genoa, Italy. Removable hut. 1,478,904; Dec. 25.
Mycock, William, Rochdale, England. Bearing for the cylinders of drying machines. 1,478,905; Dec. 25.
Narrow Fabric Co., The. (See Walbrecker, Ernest, assignor.)
Nash, George W., Chelsea, Mass. Ball cock. 1,478,980; Dec. 25.
National Asphalt Burial Vault Company, The. (See Sheene, William E., assignor.)
National Blank Book Company. (See Schade, John, assignor.)
National Equipment Company. (See Bausman, Alonzo L., assignor.)
Neal, Spencer G., New York, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del. Air-brake apparatus. 1,478,832; Dec. 25.
Neenan Elevator Corporation. (See Neenan, Michael E., assignor.)
Neenan, Michael E., New York, N. Y., assignor to Neenan Elevator Corporation. Sheave. Re15,737; Dec. 25.
Nelson, Arthur, Vancouver, British Columbia, Canada. Cardboard box. 1,478,791; Dec. 25.
Nelson, Clayton L., St. Albans, Vt. Pipe coupling. 1,478,452; Dec. 25.
Nemanich, Ralph A., Joliet, Ill. Portable folding shoeshine stand. 1,478,906; Dec. 25.
Neumann, R., Hardware Co., The. (See Willringhaus, Gustav, assignor.)
New Haven Clock Co. (See Porter, Wilson E., assignor.)
New Haven Clock Co. (See Whitehead, Richard H., assignor.)
New Process Cork Company. (See Harrich, Paul, assignor.)
New Zealand Co-operative Dairy Company, The. (See Dance, Edward L., assignor.)
Newell, Louis B., assignor to Carr-Lowrey Glass Co., Baltimore, Md. Bottle. Des. 63,654; Dec. 25.
Nichols, William B., Haddon Heights, assignor of one-half to T. E. Benson, Audubon, N. J. Sectional dehydrator. 1,478,879; Dec. 25.
Nielson, Niels, Los Angeles, Calif. Self-filling fountain pen. 1,478,577; Dec. 25.
Noel, Joseph, et al. (See Compton, Edward J., assignor.)
Norris, Almon E., Brookline, Mass. Cable-winding apparatus. 1,478,756; Dec. 25.

Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Cederberg, Ivar W., assignor.)
North East Electric Company. (See Lee, Thomas L., assignor.)
O'Brien, John J., Coggon, Iowa. Pump coupling. 1,478,453; Dec. 25.
O'Brien, Raymond J., New York, N. Y., assignor to Morgan & Wright. Tire casing. 1,478,833; Dec. 25.
O'Connor, Frederick A., Toronto, Ontario, Canada. Balloon toy. 1,478,757; Dec. 25.
Ogden, John E. L., Liscard, England. Liquid pump or elevator. 1,478,792; Dec. 25.
Ogden, Sidney H., Cape May Court House, N. J., assignor of one-half to F. H. Brown, Germantown, Philadelphia, Pa. Dress shield. 1,478,907; Dec. 25.
Ohm, Albert J. D., Astoria, N. Y., assignor to Max Schaffer Company. Arm for lamp fixtures. Des. 63,655; Dec. 25.
Oldham, Arthur S., Miami, Okla. Making coffee. 1,478,908; Dec. 25.
O'Neill, Philip L. (See Valiton, Frederick H., assignor.)
Osborne, John H., Blackheath, London, and A. W. Burford, Lee, London, England. Fire ladder and the like. 1,478,793; Dec. 25.
Oswald, Richard W., Sewickley, Pa. Fan wheel. 1,478,909; Dec. 25.
Ottenheimer, Reuben E., Baltimore, Md. Refrigerator construction. 1,478,527; Dec. 25.
Otterbein, Arthur, assignor to The Kirby Manufacturing Company, Middletown, Conn. Pad holder. 1,478,880; Dec. 25.
Owen, Malcolm. (See Gamble, W., and Owen.)
Pabst, Josef, Zurich, Switzerland. Cloth holder. 1,478,672; Dec. 25.
Pargburn, Truman A., Camden, N. J. Permutation switch for automobiles. 1,478,394; Dec. 25.
Paper Utilities Co. (See Reifsnyder, James D., assignor.)
Parenti, Joseph S., assignor to Parenti Motors Corporation, Buffalo, N. Y. Vehicle construction. 1,478,860; Dec. 25.
Parenti Motors Corporation. (See Parenti, Joseph S., assignor.)
Parker, Candace C., Pueblo, Colo. Shade and curtain fixture. 1,478,673; Dec. 25.
Peacock, Jesse L., and F. Sayles, Chicago, Ill., assignors to Peacock Manufacturing Company. Razor sharpener. 1,478,835; Dec. 25.
Peacock Manufacturing Company. (See Peacock, J. L., and Sayles, assignors.)
Pengilly, Joseph E. (See Brown, V., and Pengilly.)
Penrose, A. W., and Company Limited. (See Gamble, W., and Owen, assignors.)
Perkins, Arthur S., Auburn, Me. Thread-measuring device. 1,478,910; Dec. 25.
Perkins, B. F., & Son, Inc. (See Bidwell, Paul W., assignor.)
Perkins, Kenneth H., Redditch, England. Needle or style for gramophones and like machines. 1,478,795; Dec. 25.
Perlman, Louis H., New York, N. Y., assignor to General Motors Corporation. Rim. 1,478,528; Dec. 25.
Peters, Frank M., and W. H. Hungerford, assignors to Peters Machinery Company, Chicago, Ill. Carton-sealing apparatus. 1,478,836; Dec. 25.
Peters Machinery Company. (See Peters, F. M., and Hungerford, assignors.)
Peterson, Roy. (See Liggett, H. C., Peterson, and Liggett.)
Petitjean, Charles W., Union City, assignor to The Bristol Company, Waterbury, Conn. Hub cap for charts. 1,478,861; Dec. 25.
Pettis, Edson S., Mill Valley, Calif. Decanting machine. 1,478,674; Dec. 25.
Philippe, Florent, sr., South Charleston, W. Va. Rapid towel hanger. 1,478,911; Dec. 25.
Phillips, Robert A., Taylorville, Ill. Douche seat. 1,478,794; Dec. 25.
Phoenix Hosiery Company. (See Reudt, Julius C., assignor.)
Pierce, Edward, West Burlington, Iowa. Locomotive stoker. 1,478,305; Dec. 25.
Pilson, James R., and L. Zoll, Vanguard, Saskatchewan, Canada. Automatic door check. 1,478,758; Dec. 25.
Pinard, Albert, East Charleston, Vt. Vehicle runner. 1,478,796; Dec. 25.
Pine Tree Milking Machine Company. (See Stampen, Jacob J., assignor.)
Pitcairn, William S., Corporation. (See Pitcairn, William S., assignor.)
Pitcairn, William S., East Orange, N. J., assignor to William S. Pitcairn Corporation, New York, N. Y. Plate or similar article. Des. 63,656; Dec. 25.
Pittsburgh Plate Glass Company. (See Soderberg, Jacob, assignor.)
Plimpton, Bentley A., assignor of one-half to The Porcelain Insulator Company, Lima, N. Y. Insulator. 1,478,912; Dec. 25.
Pneumatic Process Flotation Company. (See Dolbear, Samuel H., assignor.)
Polson, William R. (See Webb, Q. L., and Polson.)
Porcelain Insulator Company, The. (See Plimpton, Bentley A., assignor.
Porter, Wilson R., assignor to New Haven Clock Co., New Haven, Conn. Clock movement. 1,478,759; Dec. 25.
Potter, Robert S., Greenwich, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Door closer. 1,478,615; Dec. 25.
Pownall, Henry D., Canton, Ohio. Tank-room structure. 1,478,396; Dec. 25.
Pratt & Whitney Company. (See Teller, Spencer J., assignor.)
Preatka, Joseph, New York, N. Y. Flying machine. 1,478,397; Dec. 25.
Priebe, Herman C., Blue Island, Ill. Draft gear. 1,478,578; Dec. 25.
Pritchard, Andrew, et al. (See Compton, Edward J., assignor.)
Prospect Manufacturing Company, The. (See Woltring, Sylvanus L. and L., assignors.)
Prosser, William J., assignor of one-fourth to W. L. Wilson and one-fourth to J. Baines, Denver, Colo. Neutral and low gear lock for automobiles. 1,478,675; Dec. 25.
Pukt, Albert J., South Boston, Mass. Flexible coupling. 1,478,398; Dec. 25.
Quality Furniture Company. (See Schmitt, Walter M., assignor.)
Rabbett, James R. (See Lorenz, W. A., and Hoopes, assignors.)
Rachlin, Max, New York, N. Y. Gutter hanger. 1,478,837; Dec. 25.
Racine Horseshoe Tire Company, The. (See Hollenbeck, Oscar D., assignor.)
Racine Horseshoe Tire Company, The. (See Smith, Harold O., assignor.)
Radio Industries Corporation. (See Gernsback, Hugo, assignor.)
Ray, Eugene J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for trimming the edges of boots and shoes. 1,478,797; Dec. 25.
Reaume, Harry E., Detroit, Mich. Piston ring. 1,478,486; Dec. 25.
Reece Button Hole Machine Company, The. (See Reece, Franklin A., assignor.)
Reece, Franklin A., Chestnut Hill, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing machine. 1,478,760; Dec. 25.
Reflector & Illuminating Co. (See Herron, James C., assignor.)
Reichart, William M. (See Liberman, Bernard and L., and Reichart.)
Reid, Willard, et al. (See Smith, Hazor J., assignor.)
Reifsnyder, James D., Wechawken, N. J., assignor, by mesne assignments, to Paper Utilities Co., Inc., New York, N. Y. Collapsible cup. 1,478,838; Dec. 25.
Renold, Charles G., assignor to Hans Renold Limited, Manchester, England. Stenter chain. 1,478,454; Dec. 25.
Renold, Hans, Limited. (See Renold, Charles G., assignor.)
Republic Rubber Company, The. (See Heintz, Samuel, assignor.)
Reynolds, Ernest M., Cleveland, Ohio. Coupler for radio-reception. 1,478,579; Dec. 25.
Rhodes, Granville O., Huntington, W. Va. Barrel truck and rack. 1,478,913; Dec. 25.
Rice Import Company Inc. (See Rothschild, Marcus, assignor.)
Richardson, Bayard E., assignor to Mechano Gear Shift Company, Grand Rapids, Mich. Transmission gearing. 1,478,529; Dec. 25.
Richey, William C., Denver, Colo. Railway-car-handling mechanism. 1,478,676; Dec. 25.
Rieske, Louis, Mayfield Village, assignor to S. M. Moorhouse, Cleveland, Ohio. Combined high and low level valve and depth indicator. 1,478,580; Dec. 25.
Rinehart, James S., Hastings, Nebr. Sewer-pipe-joint cleaner. 1,478,455; Dec. 25.
Ritzenthaler, John, Mount Vernon, N. Y. Cleaning cloth. 1,478,914; Dec. 25.
Roberts, Jessie J., assignor to F. C. Graddick, Winder, Ga. Stop attachment for warping machines. 1,478,915; Dec. 25.
Robinson, Ezra L., Los Angeles, Calif. Direction indicator. 1,478,916; Dec. 25.
Rogers, Edwin, Aurora, Ill. Parachute. 1,478,677; Dec. 25.
Rogers, Simeon L. and George H., Company. (See James, Sidney V., assignor.)
Rooney, John W., Dunedin, New Zealand. Clothes peg. 1,478,530; Dec. 25.
Root, Chapman J., Terre Haute, Ind. Bottle. Des. 63,657; Dec. 25.
Rosenblatt, Isidor, Brooklyn, N. Y. Lighting-fixture arm. Des. 63,658; Dec. 25.
Rosenthal, Harry, New York, N. Y. Uniting glass and celluloid. 1,478,862; Dec. 25.
Ross, Frank A., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vehicle lamp. Des. 63,659; Dec. 25.
Ross, Frank V., Indianapolis, Ind. Mounting for floral decorations. 1,478,487; Dec. 25.
Ross, Henry I. M., Dunedin, New Zealand. Building construction. 1,478,917; Dec. 25.
Rothschild, Marcus, assignor to Rice Import Company, Inc., New York, N. Y. Fan. 1,478,399; Dec. 25.

Rotter, Theodore, assignor of one-half to J. Custer, Detroit, Mich. Player-piano reroll mechanism. 1,478,456; Dec. 25.
Rousseau, George E. C., Sacramento, Calif., assignor to Rousseau Gold Washing Machine Company. Gold-washing machine. 1,478,761; Dec. 25.
Rousseau Gold Washing Machine Company. (See Rousseau, George E. C., assignor.)
Rowland, Alexander S., New York, N. Y. Candlestick. Des. 63,660; Dec. 25.
Rowley, Alfred W., and F. H. Ryder, assignors to Harder Manufacturing Corporation, Cobleskill, N. Y. Refrigerator-door construction. 1,478,400; Dec. 25.
Rubsam, Charles F., Brooklyn, N. Y. Detachable rim. 1,478,581; Dec. 25.
Ruedt, Julius C., assignor to Phoenix Hosiery Company, Milwaukee, Wis. Garment. 1,478,401; Dec. 25.
Rupp, William, Newark, N. J. Tap device for wooden barrels. 1,478,918; Dec. 25.
Russell, Robert C., Pittsburgh, Pa. Card index. 1,478,762; Dec. 25.
Russell, Robert C., Pittsburgh, Pa. Card index. 1,478,763; Dec. 25.
Russell, Robert C., Pittsburgh, Pa. Card index. 1,478,764; Dec. 25.
Russell, Robert C., Pittsburgh, Pa. Card index. 1,478,765; Dec. 25.
Russell, Robert C., Pittsburgh Pa. Card index. 1,478,766; Dec. 25.
Russell, Robert C., Pittsburgh, Pa. Index card. 1,478,767; Dec. 25.
Ryan, John F., Huntington, W. Va. Advertising and the like display device. 1,478,402; Dec. 25.
Ryder, Frank H. (See Rowley, A. W., and Ryder.)
Rylander Company, The. (See Rylander, James B., assignor.)
Rylander, James B., assignor to The Rylander Company, Austin, Tex. Seed separator. 1,478,616; Dec. 25.
Sabold, Oliver W., Boyertown, assignor to Colebrookdale Iron Company, Pottstown, Pa. Gas-heated sadiron connection. 1,478,531; Dec. 25.
Sacerdote, Secondo, and S. Cristiani, Milan, Italy. Thermoelectric heat-accumulating cooking stove. 1,478,919; Dec. 25.
Sainsbury, James T., assignor of one-third to G. F. Yates, Buffalo, N. Y. Ventilating apparatus for automobiles. 1,478,403; Dec. 25.
Samson, Alfred A., Chicago, Ill. Belt guide and shifting mechanism. 1,478,839; Dec. 25.
Sanders, Charlan E. (See Shannon, R. W., and Sanders.)
Sandland, George E. (See Smith, R. L., and Sandland.)
Sargent's, C. G., Sons Corporation. (See Furbush, Frank L., assignor.)
Saunders, Walter S., assignor to American Forging and Socket Co., Pontiac, Mich. Windshield-top support. 1,478,457; Dec. 25.
Sayles, Frederick. (See Peacock, J. L., and Sayles.)
Schade, John, assignor to National Blank Book Company, Holyoke, Mass. Loose-leaf binder. 1,478,840; Dec. 25.
Schafer, Frank, Barberton, Ohio. Apparatus for testing tires. 1,478,532; Dec. 25.
Schafer, Hans, Sulzheim, Germany. Trousers stretcher. 1,478,533; Dec. 25.
Schaffer, Max, Company. (See Ohm, Albert J. D., assignor.)
Schallman, Harry, Chicago, Ill. Glove and mitten. 1,478,582; Dec. 25.
Schepman, Frederick W., assignor of one-half to W. C. Menke, Evansville, Ind. Bill file. 1,478,920; Dec. 25.
Scheufelen, Adolf, and F. Schumacher, assignors to the Firm Erste Deutsche Kunstdruck-Papierfabrik Carl Scheufelen, Oberlenningen-Teck, Germany. Cutting narrow strips from a roller of cellulose material. 1,478,718; Dec. 25.
Schiesari, Mario, New York, N. Y. Apparatus for the removal of snow. 1,478,678; Dec. 25.
Schlesinger, Jackson, New York, N. Y. Cuff protector. 1,478,583; Dec. 25.
Schmidt, Arthur A., assignor to International Precipitation Company, Los Angeles, Calif. Apparatus for electrical treatment of gases. 1,478,798; Dec. 25.
Schmitt, Walter M., assignor to Quality Furniture Company, Evansville, Ind. Vanity dresser. Des. 63,661; Dec. 25.
Schmidt, Walter M., assignor to Quality Furniture Company, Evansville, Ind. Bed. Des. 63,662; Dec. 25.
Schmitt, Walter M., assignor to Quality Furniture Company, Evansville, Ind. Bureau. Des. 63,663; Dec. 25.
Schnake, August C., Centralia, Ill. Glare protector. 1,478,799; Dec. 25.
Schultz, Herman J., Chicago, Ill. Printing press. 1,478,488; Dec. 25.
Schumacher, Fritz. (See Scheufelen, A., and Schumacher.)
Schwartz, Lewis R., New Haven, Conn. Combined chair and swing. 1,478,768; Dec. 25.
Schwarz, Henry G., Denver, Colo. Sugar-beet storage. 1,478,534; Dec. 25.
Schweinert, Maximilian C., West Hoboken, N. J. Inflating device. 1,478,584; Dec. 25.
Scott, George S. (See Gustafson, Oscar R., assignor.)
Scott, Henry P., jr. (See Dewey, B., and Scott.)
Scovill Manufacturing Company. (See Bennett, Morris H., assignor.)
Seigman, Harry, New York, N. Y. Razor double stropping machine. 1,478,841; Dec. 25.
Seitz, Adam, Furth, assignor to G. Zimmermann, Zirndorf, near Nuremberg, Germany. Furniture lock. 1,478,535; Dec. 25.
Servais, Julien G., Paris, France. Device for counting mesh or grids. 1,478,536; Dec. 25.
Settle, Witcher S., New York, N. Y. Garment hanger. 1,478,771; Dec. 25.
Shannon, Ralph W., and C. E. Sanders, Los Gatos, Calif. Stepladder. 1,478,617; Dec. 25.
Shannon, Randolph W., New York, N. Y. Filing box. 1,478,618; Dec. 25.
Shaw, Sidney R., San Francisco, Calif. Rocker arm. 1,478,679; Dec. 25.
Sheene, William E., assignor to The National Asphalt Burial Vault Company, Baltimore, Md. Asphalt-mastic and coal-tar-mastic casket vault. 1,478,769; Dec. 25.
Shelby, David C. P., Arnaud, Manitoba, Canada. Extension sleigh bolster. 1,478,537; Dec. 25.
Sherman, Joseph B., Meriden, Conn. Knife or similar article. Des. 63,664; Dec. 25.
Shur-On Optical Co. (See Kirstein, H. E., and Gage, assignors.)
Sibley, Edwin J., Jamaica, N. Y. Friction adjuster. 1,478,404; Dec. 25.
Simons, John T., H. D. Elliott, and T. P. Stoney, Charleston, S. C. Automobile storm curtain. 1,478,619; Dec. 25.
Simpson, Jacob, New York, N. Y. Enemy bearing and range indicator. 1,478,585; Dec. 25.
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
Slater, Walter G., Wiley, Colo. Grain-loading-spout regulator. 1,478,921; Dec. 25.
Slavik, William M., Oak Park, Ill. Mechanic's square. 1,478,800; Dec. 25.
Slye, Clarence E., Aurora, Ill. Cooking utensil. 1,478,801; Dec. 25.
Smart, Rupert B., Chicago, Ill. Addressing machine. 1,478,586; Dec. 25.
Smith, Don, San Francisco, Calif., assignor to American Telephone and Telegraph Company. Network controlling circuits. 1,478,458; Dec. 25.
Smith, Elmer H., Minneapolis, Minn. Carbide-feeding apparatus. 1,478,405; Dec. 25.
Smith, Harold O., Indianapolis, Ind., assignor to The Racine Horseshoe Tire Company, Racine, Wis. Resilient tire. Des. 63,665; Dec. 25.
Smith, Hazor J., Chicago, Ill., assignor of one-fourth to W. Reid and one-half to A. H. Chapin, Springfield, Mass. Thermostatic switch. 1,478,719; Dec. 25.
Smith, Henry C., Denver, Colo. Trap nest. 1,478,620; Dec. 25.
Smith, Hugh J., Brooklyn, N. Y. Window construction. 1,478,922; Dec. 25.
Smith, Robert L., and G. E. Sandland, Erith, assignors to Vickers Limited, Westminster, London, England. Apparatus for testing the hardness of materials. 1,478,621; Dec. 25.
Smith, Samuel C., Algiers, La. Car brake and car mechanism. 1,478,923; Dec. 25.
Smith, William C., assignor to Thos. Mills & Bro., Inc., Philadelphia, Pa. Candy-forming machine. 1,478,924; Dec. 25.
Soderberg, Jacob, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Headlight glass or lens. 1,478,680; Dec. 25.
Soderberg, Jacob, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Headlight glass or lens. 1,478,681; Dec. 25.
Sonoco Products Company. (See Dunlap, Charles K., assignor.)
Spery, Charles F., Chicago, Ill. Radiator core. 1,478,489; Dec. 25.
Spillman Engineering Corporation. (See Jaenecke, Karl F. W., assignor.)
Sprague, Edward, jr., Chicago, Ill., assignor to The Knehl Candy Co., Davenport, Iowa. Confection-making machine. 1,478,490; Dec. 25.
St. Louis Brass Manufacturing Company. (See Drees, Clemens J., assignor.)
Staley, Raleigh H., Springfield, Ill., assignor to Chambers Brothers Company. Method and means for working clay. 1,478,842; Dec. 25.
Stampen, Jacob J., assignor to Pine Tree Milking Machine Company, Chicago, Ill. Milking machine. 1,478,802; Dec. 25.
Standard Wall Paper Co. (See Case, Lynn B., assignor.)
Stansberry, Maurice H., Kansas City, Mo. Nonskid roof jack. 1,478,682; Dec. 25.
Steed, Otho H. G., Stafford, England. Loading and discharge pipe line system for oil tankers. 1,478,925; Dec. 25.
Steel, Charles C., and T. H. Lynn, Williamsport, Pa. Tire carrier. 1,478,406; Dec. 25.
Steel, Edward R., Grundy Center, and P. C. Molgard, Eldora, Iowa. Ice box. 1,478,770; Dec. 25.
Steele, Willard S. (See Hoopes, Charles P. and F. P., and Steele.)
Steinkraus, Henry W., Peoria, Ill. Clothesline holder. 1,478,803; Dec. 25.
Stetson, Frank H., Methuen, Mass., assignor to U. S. Bobbin & Shuttle Co., Providence, R. I. Shuttle-block pin. 1,478,459; Dec. 25

Stevens, Royal A., assignor to W. H. Bagshaw Co., Inc., Lowell, Mass. Machine for cutting the pointed ends from rods. 1,478,683; Dec. 25.
Stevenson, Walter J., London, England. Manufacture of artificial silk from acetyl cellulose. 1,478,926; Dec. 25.
Stewart, Josephine F., Washington, D. C. Sachet bag or similar article. Des. 63,666; Dec. 25.
Stewart-Warner Speedometer Corporation. (See Cleven, Axel, assignor.)
Stewart-Warner Speedometer Corporation. (See Ross, Frank A., assignor.)
Stewart, William, Portland, Me. Process and machine for refrigeration. 1,478,863; Dec. 25.
Stibitz, Charles L., and F. L., Wilburton, Pa. Conveyer chain. 1,478,460; Dec. 25.
Stibitz, Frank L. (See Stibitz, Charles L. and F. L.)
Stiefel, Ralph C., Ellwood City, Pa. Tube-reducing mill. 1,478,772; Dec. 25.
Stiyouk, Fedor, Natal, Manitoba, Canada. Lamp extinguisher. 1,478,491; Dec. 25.
Stocker, Carolyn W., Lansdowne, Pa. Shoulder-strap retainer. 1,478,773; Dec. 25.
Stoehrer, Harold. (See Stoehrer, Max and H.)
Stoehrer, Max and H., Methuen, Mass., assignors, to Stoehrer & Pratt Dodgen Corporation, Lawrence, Mass. Amusement apparatus. 1,478,979; Dec. 25.
Stoehrer & Pratt Dodgen Corporation. (See Stoehrer, Max and H., assignors.)
Stoner, Carlton E., Long Beach, Calif. Lateral dirigible light for vehicles. 1,478,587; Dec. 25.
Stoney, Thomas P. (See Simons, J. T., Elliott, and Stoney.)
Stowell, Byron F., and H. L. Washburn, assignors to Metal Saw and Machine Company, Inc., Springfield, Mass. Guide device for band cutters. 1,478,774; Dec. 25.
Strauss, Joseph B., Chicago, Ill. Building construction. 1,478,492; Dec. 25.
Strole, William C., Detroit, Mich. Alarm attachment for printing presses. 1,478,775; Dec. 25.
Stumpf Una-Flow Engine Company. (See Turnwald, Wolfgang, assignor.)
Sturt, Alfred T., Flint, Mich., assignor to Durant Motors Incorporated. Clutch and brake pedal mechanism. 1,478,407; Dec. 25.
Swart, George R., & Company, Inc. (See Belluche, Elmer W., assignor.)
Swartz, Henry, Philadelphia, Pa. Coal-gas carburetor. 1,478,981; Dec. 25.
Sweeney, Albert H., Fresno, Calif. Decoy stickup. 1,478,538; Dec. 25.
Symmes, Ernest M., assignor to Hercules Powder Company, Wilmington, Del. Explosive. 1,478,588; Dec. 25.
Tamborello, Frank, Milwaukee, Wis. Reversible collar. 1,478,589; Dec. 25.
Tamborello, Frank, Milwaukee, Wis. Delivery cabinet. 1,478,590; Dec. 25.
Taylor, Henry O., and J. Dresdner, Rockford, Ill. Vegetable cutter. 1,478,684; Dec. 25.
Teller, Spencer J., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Means for and method of shaping blanks. 1,478,685; Dec. 25.
Teller, Spencer J., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Metal-cutting machine. 1,478,686; Dec. 25.
Thomson, Claire. (See Abram, Ira M., assignor.)
Thompson, Harry E. (See Butler, Robert T., assignor.)
Thornton, Loxla C., Fresno, Calif. Aligning jig. 1,478,980; Dec. 25.
Tillman, Joseph T., assignor to (Mrs.) G. F. Kriesel, Minneapolis, Minn. Combination tool and grinder. 1,478,993; Dec. 25.
Tomlinson, William A., Phoenix, Ariz. Cattle guard. 1,478,927; Dec. 25.
Toner, John J., New York, N. Y. Rudder. 1,478,928; Dec. 25.
Torricelli, Decio, Springfield, Mass. Ash receiver. 1,478,804; Dec. 25.
Toussaint, Heinrich, Kiel, and H. Fluck, Hamburg, assignors to Deutsche Werke Aktiengesellschaft, Berlin, Germany. Dredging bucket. 1,478,622; Dec. 25.
Trembiatt, Barney, Minneapolis, Minn. Doll. Des. 63,667; Dec. 25.
Trent Process Corporation. (See Trent, Walter E., assignor.)
Trent, Walter E., assignor to Trent Process Corporation, Washington, D. C. Producing coke. 1,478,864; Dec. 25.
Tunnel & Sewer Machine Engineering Company, The. (See Anderson, Louis W., assignor.)
Turner, Charles L., Los Angeles, Calif. Bottle closure. 1,478,687; Dec. 25.
Turnwald, Wolfgang, Syracuse, N. Y., assignor to Stumpf Una-Flow Engine Company. Valve-controlling mechanism. 1,478,843; Dec. 25.
Tursky, Charles M., New York, N. Y. Combination compressor and vacuum pump. 1,478,929; Dec. 25.
Tuttle, Walter I., Providence, R. I. Film-reel construction. 1,478,408; Dec. 25.
Tuttle, Walter I., Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass. Handle construction for braces and the like. 1,478,409; Dec. 25.
Tuttle, Walter I., Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass. Beam construction. 1,478,805; Dec. 25.
U. S. Bobbin & Shuttle Co. (See Stetson, Frank H., assignor.)
U. S. Industrial Alcohol Co. (See Wilkie, Herman F., assignor.)
Uhlinger, Roy H. (See Brownlee, R. H., and Uhlinger.)
Uiberall, Fritz. (See Hajek, O., and Uiberall.)
Underwood, George F., London, England. Means for the production of load-carrying surfaces. 1,478,995; Dec. 25.
Underwood, Percival G., Philadelphia, Pa., assignor to Graff-Underwood Company, Somerville, Mass. Picture hanger. 1,478,461; Dec. 25.
Underwood Typewriter Company. (See Campbell, George W., assignor.)
Underwood Typewriter Company. (See Doane, John C., assignor.)
Union Special Machine Company. (See Hughes, Robert R., jr., assignor.)
Union Special Machine Company. (See Kershner, Benjamin V., assignor.)
Union Switch & Signal Company, The. (See McCann, Ronnld A., assignor.)
United Shoe Machinery Corporation. (See Leveque, Bernard T., assignor.)
United Shoe Machinery Corporation. (See Ray, Eugene J., assignor.)
Vallton, Frederick H., assignor of one-half to P. L. O'Neill, Deer Lodge, Mont. Drill. 1,478,623; Dec. 25.
Vallton, Frederick H., assignor of one-half to P. L. O'Neill, Deer Lodge, Mont. Drill. 1,478,624; Dec. 25.
Van Dorn, Herbert E., Chicago, Ill. Pneumatic control system for electric switch and car, air, and electric couplers. 1,478,462; Dec. 25.
Van Kannel Revolving Door Company. (See Brunner, Herbert R., assignor.)
Varble, Thomas O. (See Harris, Albert G., assignor.)
Vester, Alfred Sons, Inc. (See Howell, Hamilton T., assignor.)
Vickers Limited. (See Smith, R. L., and Sandland, assignors.)
Victor, Alexander F., New York, N. Y. Delivering illustrated lectures or songs. 1,478,806; Dec. 25.
Vincina, Luigi. (See Muzzi, A., Bibolini, and Vincina.)
Volwiler, Ernest H., assignor to The Abbott Laboratories, Chicago, Ill. Hypnotic and analgesic compound. 1,478,463; Dec. 25.
Von Bauer, Theodor, Burgel, Turingen, Germany, and B. Zwillinger, New York, N. Y.; said von Bauer assignor to said Zwillinger, K. Zwillinger administratrix of said B. Zwillinger, deceased. Sole-heated coke oven. 1,478,410; Dec. 25.
Vosburgh, Eugene, Longmont, Colo. Knife-setting appliance. 1,478,539; Dec. 25.
Waaler, George R., Chicago, Ill. Store display stand or similar article. Des. 63,668; Dec. 25.
Wade, Edwin A. (See Jago, A. C., and Wade.)
Wadsworth, Arthur W., and A. P. Conant, Fort Thomas, assignors to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase. Des. 63,669; Dec 25.
Wadsworth, Arthur W., and A. P. Conant, Fort Thomas, assignors to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase. Des. 63,670; Dec. 25.
Wadsworth, Arthur W., and A. P. Conant, Fort Thomas, assignors to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase. Des. 63,671; Dec. 25.
Wadsworth Watch Case Company, The. (See Wadsworth, A. W., and Conant, assignors.)
Walbrecker, Ernest, Wyomissing, assignor to The Narrow Fabric Co., West Reading, Pa. Trimming braid for garments and similar articles. Des. 63,672; Dec. 25.
Walker, Ario, administrator. (See Walker, Charles W. and A. C.)
Walker, Ario C. (See Walker, Charles W. and A. C.)
Walker, Charles W., deceased, Stratford, and A. C. Walker, Bridgeport, Conn.; A. Walker, administrator. Typewriting machine. 1,478,591; Dec. 25.
Walker, John, Honolulu, Hawaii. Mortar gauge. 1,478,776; Dec. 25.
Walkley, Frank B., assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Wheel. 1,478,493; Dec. 25.
Walsh, Robert [illegible] Carbondale, Pa. Car replacer. 1,478,625; Dec [illegible]
Walstrom, Charles [illegible], assignor to Minneapolis Bedding Company, Minneapolis, Minn. Crib. 1,478,411; Dec. 25.
Walther, George, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Casting steel wheels. 1,478,494; Dec. 25.
Walther, George, and J. A. Winters, assignors to The Dayton Steel Foundry Company, Dayton, Ohio. Bottom board. 1,478,495; Dec. 25.
Walther, George, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Wheel. 1,478,496; Dec. 25.
Walton, Cecil E., Cincinnati, Ohio, assignor to American Telephone and Telegraph Company. Telegraph apparatus. 1,478,412; Dec. 25.
Wanklyn, Frederic L., Montreal, Quebec, Canada. Railway-track signal. 1,478,592; Dec. 25.
Ward Leonard Electric Company. (See Kebler, Leonard, assignor.)
Wares, Clyde, Hanford, Calif. Sliding pad. 1,478,626; Dec. 25.

Warner Brothers Company, The. (See Lovejoy, Louis B., assignor.)
Washburn, Chester A., Springfield, Mass. Leg rest. 1,478,777; Dec. 25.
Washburn, Howard L. (See Stowell, B. F., and Washburn.)
Waters, Edward T., Omaha, Nebr. Automatic sheet separating and feeding mechanism. 1,478,464; Dec. 25.
Weaver, Edgar J., Columbus, Ohio. Locking device for switch boxes. 1,478,930; Dec. 25.
Webb, Quintus L., and W. R. Polson, Bruneau, Idaho. Ice crusher. 1,478,931; Dec. 25.
Weber, Arthur O., Euclid Heights, Ohio. Combined reserve-fuel control and lock for automobiles. 1,478,807; Dec. 25.
Weber, Carl, assignor to Weber Engineering Corporation, New York, N. Y. Machine for injecting plastic materials. 1,478,865; Dec. 25.
Weber Engineering Corporation. (See Weber, Carl, assignor.)
Weber, Johann M., Frankfort-on-the-Main, assignor to E. G. Bek, Pforzheim, Germany. Making articles having connected links. 1,478,720; Dec. 25.
Weber, Johann M., Frankfort-on-the-Main, assignor to E. G. Bek, Pforzheim, Germany. Ring mesh and chain machine. 1,478,808; Dec. 25.
Weber, Johann M., and K. Betz, Frankfort-on-the-Main, assignors to E. G. Bek, Pforzheim, Germany. Manufacture of chains and chain meshwork. 1,478,809; Dec. 25.
Weidlich Bros. Mfg. Co., The. (See Flauder, Alfred J., assignor.)
Weil, Charles L., deceased, Port Huron, Mich.; E. S. Weil, special administratrix. Salt manufacture. 1,478,990; Dec. 25.
Weil, Ella S., special administratrix. (See Weil, Charles L.)
Welin, Axel, London, England, assignor to American Balsa Company, Inc. Mechanism for turning ships' davits. 1,478,994; Dec. 25.
Welch, Roy W., Kelso, Wash. Belt. 1,478,497; Dec. 25.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Apparatus for and method of cracking hydrocarbons. 1,478,413; Dec. 25.
Wells, Frank O., Greenfield, Mass. Stay-bolt tap. 1,478,414; Dec. 25.
Werry, William, London, England. Internal-combustion engine. 1,478,778; Dec. 25.
Western Electric Company. (See Goodrum, Charles L., assignor.)
Westinghouse Lamp Company. (See Ingold, Frederick C., assignor.)
Westinghouse Union Battery Company. (See Gasche, Karl W., assignor.)
Wetz, Tony H., Hazelton, Kans., and A. A. Evans, Eldorado, Okla. Staple. 1,478,932; Dec. 25.
Whatley, De Witt C., Libue, Hawaii. Oil burner. 1,478,721; Dec. 25.
Wheeler, Ira R., Brockton, Mass. Anatomical articulator. 1,478,722; Dec. 25.
Whidden, Austin C., Los Angeles, Calif. Multiple supply valve. 1,478,688; Dec. 25.
White, Jess H. (See Hazlewood, William A., assignor.)
Whitehead, Richard H., assignor to New Haven Clock Co., New Haven, Conn. Clock case. Des. 63,673; Dec. 25.
Whitehead, Richard H., assignor to New Haven Clock Co., New Haven, Conn. Clock case. Des. 63,674; Dec. 25.
Whiting & Davis Company. (See Berkley, Richard H., assignor.)
Whitworth, Bevill W., Omaha, Nebr. Adjustable shade bracket. 1,478,779; Dec. 25.
Wiegand, Edwin L., Pittsburgh, Pa. Heater for internal-combustion engines. 1,478,415; Dec. 25.
Wiegand, Edwin L., Pittsburgh, Pa. Electrical-heating-element winding apparatus. 1,478,465; Dec. 25.
Willett, Lloyd F., Evansville, Ind. Tongue fastener. 1,478,416; Dec. 25.
Williams, E. D., Jackson, Tenn. Cotton chopper. 1,478,933; Dec. 25.
Wilkie, Herman F., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Manufacturing alkyl esters. 1,478,498; Dec. 25.
Willringhaus, Gustav, Newark, N. J., assignor to The R. Neumann Hardware Co. Trunk catch or fastener. 1,478,499; Dec. 25.
Willringhaus, Gustav, Newark, N. J., assignor to The R. Neumann Hardware Co. Trunk catch or fastener. 1,478,500; Dec. 25.
Willys-Overland Company, The. (See Belden, Edward H., assignor.)
Willys-Overland Company, The. (See Gravel, Abundius, assignor.)
Willys-Overland Company, The. (See Harrington, William F., assignor.)
Willys-Overland Company, The. (See Mullin, Frank, assignor.)
Wilson, W. L., et al. (See Prosser, William J., assignor.)
Winans, Daniel M., assignor to The Brewer-Titchener Corporation, Binghamton, N. Y. Adjustable mirror for windshields. 1,478,689; Dec. 25.
Windmaiser, Adolph, Spokane, Wash. Two-piece rim. 1,478,934; Dec. 25.
Winkler, Carl, Berne, Switzerland. Machine for casting stereotype plates. 1,478,935; Dec. 25.
Winters, John A. (See Walther, G., and Winters.)
Wischmann, Harry G. (See Young, Albert J., assignor.)
Wolcott, Darwin S., trustee. (See Hagan, George J., assignor.)
Wolkenhauer, Frederick H., Bensenville, Ill. Furnace. 1,478,810; Dec. 25.
Woodard, William E., Forest Hills, N. Y. Locomotive. 1,478,593; Dec. 25.
Woodford, Bronson C., assignor to The Murray Company, Dallas, Tex. Cleaner feeder for cotton gins. 1,478,594; Dec. 25.
Woodin, William A., Albany, Ga. Knife guide. 1,478,501; Dec. 25.
Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
Wooley, Frederick E., Central Valley, N. Y. Fixture support. 1,478,595; Dec. 25.
Woolhether, Paul H., Truax, Saskatchewan, Canada. Roller-door latch. 1,478,502; Dec. 25.
Worden, Clifford W. (See Cross, Homer V., assignor.)
Wottring, Le Roy. (See Wottring, Slyvanus L. and L.)
Wottring, Sylvanus L. and L., assignors to The Prospect Manufacturing Company, Prospect, Ohio. Pump. 1,478,417; Dec. 25.
Wright, Parvin. (See Gerrard, A. J., and Wright.)
Wright, Paul D., Edgewood Park, Pa. Car-dumping apparatus. 1,478,723; Dec. 25.
Xlent Company. (See Fetters, Charles A., assignor.)
Yale & Towne Manufacturing Company, The. (See Potter, Robert S., assignor.)
Yates, George F. (See Sainsbury, James T., assignor.)
Young, Albert J., Baltimore, Md., assignor of one-half to H. G. Wischmann, Brooklyn, N. Y. Port-plug wrench. 1,478,503; Dec. 25.
Zeigler, Charles W. (See Harris, Everett, assignor.)
Zeiss, Firm of Carl. (See Bauersfeld, Walther, assignor.)
Zeiss, Firm of Carl. (See Erfle, Heinrich, assignor.)
Zimmermann, G. (See Seitz, Adam, assignor.)
Zoll, Lowis. (See Pilson, J. R., and Zoll.)
Zu Lynar Passy de Chimang, R. M., New York, N. Y. Airship. 1,478,382; Dec. 25.
Zwillinger, Bernhard. (See Von Bauer, T., and Zwillinger.)
Zwillinger, Klara, administratrix. (See Von Bauer, T., and Zwillinger.)

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 25TH DAY OF DECEMBER, 1923.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abrading or polishing machine. C. L. Mattison. 1,478,575; Dec. 25.
Accounts and composing account books, Means for keeping. R. B. Matthews. 1,478,975; Dec. 25.
Acetylene generators, Carbide holder for. A. F. Jenkins. 1,478,476; Dec. 25.
Acoustic instrument. A. Marr. 1,478,574; Dec. 25.
Addressing machine. R. B. Smart. 1,478,586; Dec. 25.
Adjustable gauge. J. Bath. 1,478,541; Dec. 25.
Advertising and the like display device. J. F. Ryan. 1,478,402; Dec. 25.
Air-brake apparatus. S. G. Neal. 1,478,832; Dec. 25.
Airplane starting and landing device. F. H. Kinyoun. 1,478,747; Dec. 25.
Airship. R. M. zu Lynar Passy de Chimang. 1,478,382; Dec. 25.
Alcohols, Producing terpenic. R. L. Andreau. 1,478,690; Dec. 25.
Alkyl esters, Manufacturing. H. F. Willkie. 1,478,498; Dec. 25.
Ammonia, Catalytic apparatus for the synthesis of. L. Casale. 1,478,549–50; Dec. 25.
Amusement apparatus. M. and H. Stoehrer. 1,478,979; Dec. 25.
Anode and carrier therefor. H. L. Haas. 1,478,853; Dec. 25.
Antiskid chain. W. H. Baumeister. 1,478,420; Dec. 25.
Apron, Protective. M. S. Hulley. 1,478,962; Dec. 25.
Articles having connected links, Making. J. M. Weber. 1,478,720; Dec 25.
Articulator, Anatomical. I. R. Wheeler. 1,478,722; Dec. 25.
Artificial tree. D. E. Brown. 1,478,728; Dec. 25.
Ash receiver. D. Torricelli. 1,478,804; Dec. 25.
Audiphone. J. W. Bishop. 1,478,545; Dec. 25.
Auto brake. S. B. Leitzell. 1,478,969; Dec. 25.
Automatic press. F. S. Carver. 1,478,699; Dec. 25.
Automobile accelerator. G. F. Castle. 1,478,551; Dec. 25.
Automobile lock. A. F. H. Davis. 1,478,850; Dec. 25.
Automobile mirrorscope bracket. E. A. and E. S. Hawthorne. 1,478,826; Dec. 25.
Automobile signal. C. Hoffman. 1,478,857; Dec. 25.
Automobile storm curtain. J. T. Simons, H. D. Elliott, and T. P. Stoney. 1,478,619; Dec. 25.
Automobile transmission mechanism. A. P. Brush. Re15,738; Dec. 25.
Automobile wheel. S. Kaplan and H. M. Howell. 1,478,437; Dec. 25.
Automobiles, Combined reserve-fuel control and lock for. A. O. Weber. 1,478,807; Dec. 25.
Automobiles, Direction indicator for. L. A. Bean. 1,478,542; Dec. 25.
Automobiles, Neutral and low gear lock for. W. J. Prosser. 1,478,875; Dec. 25.
Automobiles, Permutation switch for. T. A. Pangburn. 1,478,394; Dec. 25.
Automobiles, Ventilating apparatus for. J. T. Sainsbury. 1,478,403; Dec. 25.
Bag: *See*—
Hand bag.
Bagasse and liquid fuel furnace. R. Almagro. 1,478,418; Dec. 25.
Band cutters, Guide device for. B. F. Stowell and H. L. Washburn. 1,478,774; Dec. 25.
Barrels, Tap device for wooden. W. Rupp. 1,478,918; Dec. 25.
Baseball mask. H. Goldsmith. 1,478,982; Dec. 25.
Batteries, Manufacturing storage. K. W. Gasche. 1,478,708; Dec. 25.
Battery elements, Assembling storage. C. W. Hazelett. 1,478,786; Dec. 25.
Battery receptacle. J. S. Hobson. 1,478,390; Dec. 25.
Beam construction. W. I. Tuttle. 1,478,805; Dec. 25.
Bearing and gear removing tool. A. B. Klay. 1,478,964; Dec. 25.
Bearing and range indicator, Enemy. J. Simpson. 1,478,585; Dec. 25.
Bearings, Exterior adjuster for journal. C. F. Livenspargar. 1,478,593; Dec. 25.
Bed. W. M. Schmitt. Des. 63,662; Dec. 25.
Bed for automobiles, Collapsible. S. E. Lane. 1,478,611; Dec. 25.
Bedstead end frame. J. H. Dyett. Des. 63,640; Dec. 25.
Bedstead, Metal. J. A. Blin. 1,478,937; Dec. 25.
Beet storage, Sugar. H. G. Schwarz. 1,478,534; Dec. 25.
Belt. R. W. Welch. 1,478,497; Dec. 25.
Belt buckle. A. Kozma. 1,478,965; Dec. 25.
Belt guide and shifting mechanism. A. A. Samson. 1,478,839; Dec. 25.
Bezel, Instrument. A. Cleven. Des. 63,613; Dec. 25.
Binder, Loose-leaf. J. Schade. 1,478,840; Dec. 25.
Blanks, Means for and method of shaping. S. J. Teller. 1,478,685; Dec. 25.
Board, Bottom. G. Walther and J. A. Winters. 1,478,495; Dec. 25.
Boats, Lowering and raising apparatus for ships'. H. W. Broady. 1,478,546; Dec. 25.
Boiler: *See*—
Egg boiler.
Book, Loose-leaf-binder. L. Kingsley. 1,478,522; Dec. 25.
Books, Loose-leaf marker for. L. E. Hughes. 1,478,655; Dec. 25.
Boots and shoes, Machine for trimming the edges of. E. J. Ray. 1,478,797; Dec. 25.
Bottle. W. S. Breeden. Des. 63,610; Dec. 25.
Bottle. L. B. Newell. Des. 63,654; Dec. 25.
Bottle. C. J. Root. Des. 63,657; Dec. 25.
Bottle closure. C. L. Turner. 1,478,687; Dec. 25.
Box: *See*—
Cardboard box. Ice box.
Filing box.
Brace: *See*—
Rail brace.
Braces and the like, Handle construction for. W. I. Tuttle. 1,478,409; Dec. 25.
Bracelet clasp, Ribbon-. R. King. 1,478,658; Dec. 25.
Bracket: *See*—
Automobile mirrorscope bracket.
Shade bracket.
Brake: *See*—
Auto brake. Vehicle brake.
Railway brake.
Brake band. W. L. Darnell. 1,478,849; Dec. 25.
Brake beams, Third and fourth point support for. A. W. Hawkins. 1,478,565; Dec. 25.
Bridle, Bitless. I. Helen. 1,478,958; Dec. 25.
Brush rigging. T. L. Lee. 1,478,665; Dec. 25.
Buckle. R. King. 1,478,659; Dec. 25.
Building construction. H. I. M. Ross. 1,478,917; Dec. 25.
Building construction. J. B. Strauss. 1,478,492; Dec. 25.
Bundle binding and tying machine. C. E. Evans. 1,478,560; Dec. 25.
Buoy, Swimming. H. MacKenzie. 1,478,525; Dec. 25.
Bureau. W. M. Schmitt. Des. 63,663; Dec. 25.
Burner: *See*—
Gas burner. Oil burner.
Burner. J. M. Garrett. 1,478,949; Dec. 25.
Cabinet, Camping. W. R. Albrighton. 1,478,371; Dec. 25.
Cabinet, Delivery. F. Tamborello. 1,478,590; Dec. 25.
Cable-winding apparatus. A. E. Norris. 1,478,756; Dec. 25.
Cages, Catch for bird. L. J. Leon. 1,478,440; Dec. 25.
Calipers, Micrometer. W. D. La Batt. 1,478,664; Dec. 25.
Can-body top. B. Dewey and H. P. Scott, jr. 1,478,782; Dec. 25.
Candlestick. A. S. Rowland. Des. 63,660; Dec. 25.
Candy-forming machine. W. C. Smith. 1,478,924; Dec. 25.
Candy-making apparatus. A. L. Bausman. 1,478,866; Dec. 25.
Car brake and car mechanism. S. C. Smith. 1,478,923; Dec. 25.
Car-door opener. J. F. Fisk. 1,478,562; Dec. 25.
Car-dumping apparatus. P. D. Wright. 1,478,723; Dec. 25.
Car-handling mechanism, Railway-. W. C. Richey. 1,478,676; Dec. 25.
Car journal bearing, Railway-. D. F. Hendricks. 1,478,566; Dec. 25.
Car pusher. I. M. Abram. 1,478,627; Dec. 25.
Car refrigeration. J. P. Dowding. 1,478,471; Dec. 27.
Car replacer. R. A. Walsh. 1,478,625; Dec. 25.
Car roof. C. D. Bonsall. 1,478,632; Dec. 25.
Car, Trackman's. P. Clifford. 1,478,637; Dec. 25.
Carbide-feeding apparatus. E. H. Smith. 1,478,405; Dec. 25.

Carbon black, Special. R. H. Brownlee and R. H. Uhlinger. 1,478,730; Dec. 25.
Carburetor. G. C. Farris. 1,478,895; Dec. 25.
Carburetor, Coal-gas. H. Swartz. 1,478,981; Dec. 25.
Card and tag holder. B. H. Börreson. 1,478,598; Dec. 25.
Cardboard box. A. Nelson. 1,478,791; Dec. 25.
Carrier: *See*—
Tag carrier. Tire carrier.
Carrousel attachment. K. F. W. Jacnecke. 1,478,743; Dec. 25.
Cattle guard. W. A. Tomlinson. 1,478,927; Dec. 25.
Cellulose material, Cutting narrow strips from a roller of. A. Scheufelen and F. Schumacher. 1,478,718; Dec. 25.
Centrifugal separator. G. C. Barnes and J. R. Morgan. 1,478,660; Dec. 25.
Chain, Conveyer. C. L. and F. L. Stibitz. 1,478,460; Dec. 25.
Chain meshwork and chains, Manufacture of. W. Bittrolf. 1,478,814; Dec. 25.
Chain, Stenter. C. G. Renold. 1,478,454; Dec. 25.
Chains and chain meshwork, Manufacture of. J. M. Weber and K. Betz. 1,478,809; Dec. 25.
Chair. H. F. Chatfield. Des. 63,612; Dec. 25.
Chair and swing, Combined. L. R. Schwartz. 1,478,768; Dec. 25.
Chair construction. H. Coverly. 1,478,640; Dec. 25.
Chandelier. T. J. Maloney. Des. 63,653; Dec. 25.
Charcoal and producing the same, Artificial or synthetic. J. C. Morrell. 1,478,985; Dec. 25.
Charcoal, Manufacture of artificial. J. C. Morrell. 1,478,986; Dec. 25.
Charcoal, Production of adsorbent. J. C. Morrell. 1,478,987; Dec. 25.
Chart. A. A. Dorsch. 1,478,384; Dec. 25.
Charts, Hubcap for. C. W. Petitjean. 1,478,861; Dec. 25.
Chiropractic table. E. Bowman. 1,478,816; Dec. 25.
Chopper: *See*—
Cotton chopper.
Churn. J. A. Lawrence. 1,478,748; Dec. 25.
Cigar-bunching machine. B. and L. Liberman and W. M. Reichart. 1,478,829; Dec. 25.
Cigar-bunching machines, Attachment for. C. A. Boucher. 1,478,726; Dec. 25.
Circuit breaker, Self-soldering. R. H. Maple. 1,478,481; Dec. 25.
Circuits, Network controlling. D. Smith. 1,478,458; Dec. 25.
Clamp: *See*—
Wire-line clamp.
Clasp: *See*—
Bracelet clasp.
Clay, Method and means for working. R. H. Staley. 1,478,842; Dec. 25.
Cleaner: *See*—
Clothes cleaner. Space-band cleaner.
Pipe-joint cleaner.
Clock case. R. H. Whitehead. Des. 63,673–4; Dec. 25.
Clock movement. W. E. Porter. 1,478,759; Dec. 25.
Cloth, Cleaning. J. Ritzenthaler. 1,478,914; Dec. 25.
Cloth holder. J. Pabst. 1,478,672; Dec. 25.
Cloth-piling machine. P. W. Bidwell. 1,478,846; Dec. 25.
Clothes cleaner. W. E. McMordie. 1,478,973; Dec. 25.
Clothes peg. J. W. Rooney. 1,478,530; Dec. 25.
Clothesline holder. H. W. Steinkraus. 1,478,803; Dec. 25.
Clutch. J. Jamison. 1,478,656; Dec. 25.
Clutch and brake pedal mechanism. A. T. Sturt. 1,478,407; Dec. 25.
Clutch, Bobbin. G. H. Magrath. 1,478,789; Dec. 25.
Coal conveyer. O. E. Barene. 1,478,812; Dec. 25.
Cock, Ball. G. W. Nash. 1,478,989; Dec. 25.
Coffee, Making. A. S. Oldham. 1,478,908; Dec. 25.
Coffee, Preparing of dry and soluble extract of roasted. A. Chalas. 1,478,940; Dec. 25.
Coffeepot. G. E. Curtiss. Des. 63,637; Dec. 25.
Coke oven. T. G. Kus. 1,478,570; Dec. 25.
Coke oven, Sole-heated. T. von Bauer and B. Zwillinger. 1,478,410; Dec. 25.
Coke, Producing. W. E. Trent. 1,478,864; Dec. 25.
Collapsible cup. J. D. Reifsnyder. 1,478,838; Dec. 25.
Collar. J. V. McNamara. 1,487,988; Dec. 25.
Collar, Reversible. F. Tamborello. 1,478,589; Dec. 25.
Color-screen protection and support. J. C. Herron. 1,478,473; Dec. 25.
Combing machine. E. Holmes. 1,478,609; Dec. 25.
Compressor and vacuum pump, Combination. C. M. Tursky. 1,478,929; Dec. 25.
Concrete pavers, Boom and bucket for. C. E. Foote. 1,478,945; Dec. 25.
Concrete-wall boxing. A. E. Holmes. 1,478,653; Dec. 25.
Cordensation, Process of and apparatus for. K. P. McElroy. 1,478,750; Dec. 25.
Confection-making machine. E. Sprague, jr. 1,478,490; Dec. 25.
Controller. F. Diehl. 1,478,701; Dec. 25.
Conveyer. J. A. Anderson. 1,478,844; Dec. 25.
Conveyer aprons, Device for stripping stock from. F. L. Furbush. 1,478,784; Dec. 25.
Cooking utensil. C. E. Slye. 1,478,801; Dec. 25.
Coop, Poultry. G. L. Bilbrey. 1,478,695; Dec. 25.
Copying device. W. Bauersfeld. 1,478,693; Dec. 25.
Cork-rod baker. P. Harrich. 1,478,873; Dec. 25.
Corn, Pan for popping. C. Cretors. 1,478,819; Dec. 25.
Cot, Child's. P. Barney. 1,478,725; Dec. 25.
Cotton chopper. E. D. Williams. 1,478,933; Dec. 25.
Cotton gins, Cleaner feeder for. B. C. Woodford. 1,478,594; Dec. 25.
Coupling: *See*—
Flexible coupling. Pump coupling.
Pipe coupling.
Crane. A. Clayden. 1,478,636; Dec. 25.
Crib. C. W. Walstrom. 1,478,411; Dec. 25.
Crusher: *See*—
Ice crusher.
Cuff protector. J. Schlesinger. 1,478,583; Dec. 25.
Cup: *See*—
Collapsible cup.
Current generators, Converter for direct-. M. J. Hockley. 1,478,518; Dec. 25.
Curtains and like articles, Window frame for. H. F. Maranville. 1,478,447; Dec. 25.
Cutter: *See*—
Vegetable cutter.
Cutter head, Rotary. O. R. Gustafson. 1,478,649; Dec. 25.
D or stirrup shaped handle. E. C. Heaton. 1,478,854; Dec. 25.
Davits, Mechanism for turning ships'. A. Welin. 1,478,994; Dec. 25.
Decanting machine. E. S. Pettis. 1,478,674; Dec. 25.
Decoy stickup. A. H. Sweeney. 1,478,538; Dec. 25.
Dehydrator, Sectional. W. B. Nichols. 1,478,879; Dec. 25.
Deposit and collection receptacle. J. C. Martin. 1,478,977; Dec. 25.
Desk, Chair. C. J. Akesson. 1,478,780; Dec. 25.
Digger: *See*—
Potato digger.
Direction indicator. E. L. Robinson. 1,478,916; Dec. 25.
Disk or harrow, Orchard. J. G. Lindeman. 1,478,830; Dec. 25.
Dispensing device. J. E. Moore. 1,478,754; Dec. 25.
Dispensing ingredients, Mechanism for. L. D'Onofrio. 1,478,834; Dec. 25.
Display-controlling mechanism, Electric-. G. F. Bagge. 1,478,691; Dec. 25.
Display stand or similar article, Store. G. R. Waaler. Des. 63,668; Dec. 25.
Distributor and making the same. W. A. Evans. 1,478,705; Dec. 25.
Doll. B. Tremblatt. Des. 63,667; Dec. 25.
Door check, Automatic. J. R. Pilson and L. Zoll. 1,478,758; Dec. 25.
Door closer. R. S. Potter. 1,478,615; Dec. 25.
Door closer and check. B. S. Bernhard. 1,478,376; Dec. 25.
Door closing and checking mechanism. B. S. Bernhard. 1,478,377; Dec. 25.
Door-control device. J. H. Hockenberry. 1,478,856; Dec. 25.
Door knocker. G. Cawthron. Des. 63,611; Dec. 25.
Door opener, Automatic. F. E. Davis. 1,478,601; Dec. 25.
Doorbell. V. Imparato. 1,478,391; Dec. 25.
Douche seat. R. A. Phillips. 1,478,794; Dec. 25.
Drapery hanger. R. B. Dwyer. 1,478,820; Dec. 25.
Drawer pull and label holder. A. C. Crimmel. 1,478,381; Dec. 25.
Dredging bucket. H. Toussaint and H. Fluck. 1,478,622; Dec. 25.
Dress shield. S. H. Ogden. 1,478,907; Dec. 25.
Dresser, Vanity. W. M. Schmitt. Des. 63,661; Dec. 25.
Drier: *See*—
Hair drier. Unit drier.
Drill. F. Mullin. 1,478,451; Dec. 25.
Drill. F. H. Valiton. 1,478,623–4; Dec. 25.
Drying machines, Bearing for the cylinders of. W. Mycock. 1,478,905; Dec. 25.
Egg boiler. R. J. Cavilla. 1,478,939; Dec. 25.
Electric-arc welding, Portable rheostat for. T. P. Him. 1,478,435; Dec. 25.
Electric furnace. M. H. Bennett. 1,478,375; Dec. 25.
Electric-iron cords, Attachment for. A. W. and S. H. Harrison. 1,478,955; Dec. 25.
Electric light, Portable. J. T. Drufva. Re15,735; Dec. 25.
Electric oscillator. H. G. Cordes. 1,478,638; Dec. 25.
Electric switch. W. S. La Londe. 1,478,523; Dec. 25.
Electric switch and car, air, and electric couplers, Pneumatic control system for. H. E. Van Dorn. 1,478,462; Dec. 25.
Electrical-heating-element winding apparatus. E. L. Wiegand. 1,478,465; Dec. 25.
Electrode, Welding C. J. Holslag. 1,478,738; Dec. 25.
Engine: *See*—
Explosive engine. Internal-combustion engine.
Engines, Exhaust and water discharge for. E. V. Gara. 1,478,948; Dec. 25.
Engines, Heater for internal-combustion. E. L. Wiegand. 1,478,415; Dec. 25.
Engines, Piston for internal-combustion. W. A. Hazlewood. 1,478,608; Dec. 25.
Engines, Piston for internal-combustion and other. W. T. Cave. 1,478,733; Dec. 25.
Engines, Timer for internal-combustion. E. Harris. 1,478,652; Dec. 25.

Engines, Valve mechanism for internal-combustion. D. F. Asbury. 1,478,596; Dec. 25.
Exhibitor. G. Dickinson. 1,478,425; Dec. 25.
Explosive. E. M. Symmes. 1,478,588; Dec. 25.
Explosive engine, Rotary. J. A. Brown. 1,478,378; Dec. 25.
Exposure meter. E. Harrold. 1,478,956; Dec. 25.
Fan. M. Rothschild. 1,478,399; Dec. 25.
Fan wheel. R. W. Oswald. 1,478,909; Dec. 25.
Fastener-stock-supplying mechanism for fastener-inserting machines. S. A. Dobyne. 1,478,603; Dec. 25.
File, Bill. F. W. Schepman. 1,478,920; Dec. 25.
Filing box. R. W. Shannon. 1,478,618; Dec. 25.
Film reel construction. W. I. Tuttle. 1,478,408; Dec. 25.
Fire-brick mold. R. L. Kinton and A. F. Hibner. 1,478,746; Dec. 25.
Fishing-rod tip and guide for fishing lines. A. W. Elliott. 1,478,643; Dec. 25.
Fixture support. F. E. Wooley. 1,478,595; Dec. 25.
Flexible coupling. A. J. Fukt. 1,478,398; Dec. 25.
Floral decorations, Mounting for. F. V. Ross. 1,478,487; Dec. 25.
Flying machine. J. Preatka. 1,478,397; Dec. 25.
Frame construction. E. H. Belden. 1,478,373; Dec. 25.
Friction adjuster. E. J. Sibley. 1,478,404; Dec. 25.
Fuel-supply system. S. M. Metz. 1,478,878; Dec. 25.
Furnace: *See*—
Electric furnace.
Furnace. F. H. Wolkenhauer. 1,478,810; Dec. 25.
Furnace construction, Blast-. E. B. Kirby. 1,478,439; Dec. 25.
Furnaces, Air-preheating device for. H. R. Brunner. 1,478,731–2; Dec. 25.
Furniture lock. A. Seitz. 1,478,535; Dec. 25.
Fuse, heating element, and the like, Electric-. A. F. Berry. 1,478,845; Dec. 25.
Fuse plug, Electrical. C. S. Mallett, O. E. Forrest, and D. Monie. 1,478,752; Dec. 25.
Garbage destructor. H. T. Ludwig. 1,478,875; Dec. 25.
Garment. J. C. Rudit. 1,478,401; Dec. 25.
Garment hanger. W. S. Settle. 1,478,771; Dec. 25.
Garment supporter. L. B. Lovejoy. 1,478,716; Dec. 25.
Garments and similar articles, Trimming braid for. E. Walbrecker. Des. 63,672; Dec. 25.
Garter. R. Ferriday. 1,478,783; Dec. 25.
Gas burner, Low-pressure. H. H. Dodge. 1,478,383; Dec. 25.
Gas-purifying apparatus. E. H. Bird. 1,478,543; Dec. 25.
Gases, Apparatus for electrical treatment of. A. A. Schmidt. 1,478,798; Dec. 25.
Gases for ammonia synthesis, Purifying. I. W. Cederberg. 1,478,889; Dec. 25.
Gases, Process and apparatus for utilizing liquefied. W. Lachmann. 1,478,479; Dec. 25.
Gate: *See*—
Railway crossing gate. Railway gate.
Gauge: *See*—
Adjustable gauge. Track gauge.
Mortar gauge.
Gear, Draft. H. C. Priebe. 1,478,578; Dec. 25.
Gear shaper, High-speed. E. R. Fellows. 1,478,472; Dec. 25.
Gearing, Transmission. B. E. Richardson. 1,478,529; Dec. 25.
Ginning and cleaning machine. W. D. McCoy. 1,478,572; Dec. 25.
Glare protector. A. C. Schnake. 1,478,799; Dec. 25.
Glass and celluloid, Uniting. H. Rosenthal. 1,478,862; Dec. 25.
Glass manufacture. R. M. Corl. 1,478,554; Dec. 25.
Glove and mitten. H. Schallman. 1,478,582; Dec. 25.
Glue, Manufacture of casein. E. L. Dance. 1,478,943; Dec. 25.
Goggles, Eye. H. S. Cover. 1,478,818; Dec. 25.
Gold-washing machine. G. E. C. Rousseau. 1,478,761; Dec. 25.
Grab hook, Safety. A. Brosious. 1,478,727; Dec. 25.
Grain-loading-spout regulator. W. G. Slater. 1,478,921; Dec. 25.
Gramophones and like machines, Needle or style for. K. H. Perkins. 1,478,795; Dec. 25.
Grinding machine, Surface-. T. Lumsden. 1,478,971; Dec. 25.
Guard. L. and E. A. Happ. 1,478,953; Dec. 25.
Gun, Bomb-projecting. E. Bebler. 1,478,597; Dec. 25.
Gutter hanger. M. Rachlin. 1,478,837; Dec. 25.
Hair drier. J. H. Cannon. 1,478,635; Dec. 25.
Hand bag. M. Craig. Des. 63,614; Dec. 25.
Hand bag. M. Goldsmith. 1,478,737; Dec. 25.
Hand press. H. Lerch. 1,478,443; Dec. 25.
Hanger: *See*—
Drapery hanger. Picture hanger.
Garment hanger. Towel hanger.
Gutter hanger.
Hardness of materials, Apparatus for testing the. R. L. Smith and G. E. Sandland. 1,478,621; Dec. 25.
Harness construction. S. D. Brooks. 1,478,507; Dec. 25.
Harrows, Attachment for. E. Brown. 1,478,886; Dec. 25.
Harvesting machines, Husking mechanism for corn-. C. Ducker. 1,478,426; Dec. 25.
Hatband, Identification. W. W. Holman. 1,478,961; Dec 25.
Haulage and like system and apparatus. L. J. J. B. Chenéan. 1,478,800; Dec. 25.
Hay loader. J. Dain. 1,478,556; Dec. 25.
Hayrake. E. J. Cantwell. 1,478,817; Dec. 25.
Haystacker. W. C. Hudson. 1,478,740; Dec. 25.
Headlight glass or lens. J. Soderberg. 1,478,680–1; Dec. 25.
Headlight, Movable. L. Allen. 1,478,369; Dec. 25.
Headlight, Reflecting. R. A. Hallett. 1,478,564; Dec. 25.
Headlight reflector. E. E. Hachman. 1,478,898; Dec. 25.
Heater: *See*—
Water heater.
Hemstitching machines, Attachment for. F. and H. Burgert. 1,478,379; Dec. 25.
Hinge pin. E. L. Forker. 1,478,706; Dec. 25.
Hob grinder. H. E. Harris. 1,478,433; Dec. 25.
Holder, wrench, and clamp, Combination. A. G. Harris. 1,478,651; Dec. 25.
Hook: *See*—
Grab hook.
Hook. S. P. Johnson. 1,478,520; Dec. 25.
Hopper, Batch-measuring. G. H. MacLean. 1,478,751; Dec. 25.
Horse, Rocking-. H. Meister. 1,478,449; Dec. 25.
Horseshoe pad. J. C. Law. 1,478,874; Dec. 25.
Hospital pad or cushion. M. Dorrance. 1,478,557; Dec. 25.
Hut, Removable. A. Muzzi, C. Bibolini, and L. Vincina. 1,478,904; Dec. 25.
Hydrocarbons, Apparatus for and method of cracking. F. E. Wellman. 1,478,413; Dec. 25.
Hydrocarbons, Treating. G. Egloff. 1,478,559; Dec. 25.
Hypnotic and analgesic compound. E. H. Volwiler. 1,478,463; Dec. 25.
Ice box. E. R. Steel and P. C. Molgard. 1,478,770; Dec. 25.
Ice crusher. Q. L. Webb and W. R. Polson. 1,478,931; Dec. 25.
Index, Card. R. C. Russell. 1,478,762–7; Dec. 25.
Indicator: *See*—
Direction indicator. Vehicle direction indicator.
Stop and direction indicator.
Inflating device. M. C. Schweinert. 1,478,584; Dec. 25.
Insect exterminator. H. V. Cross. 1,478,424; Dec. 25.
Insulator. B. A. Plimpton. 1,478,912; Dec. 25.
Internal-combustion engine. W. Werry. 1,478,778; Dec. 25.
Iron: *See*—
Soldering iron.
Ironing table. E. L. Golden. 1,478,951; Dec. 25.
Jack: *See*—
Nonskid roof jack.
Jig, Aligning. L. C. Thornton. 1,478,980; Dec. 25.
Kettle. J. H. Brown. 1,478,729; Dec. 25.
Key ring. H. C. Frech. 1,478,897; Dec. 25.
Kilns, Chain-carrier mechanism for dry. J. B. Barrow. 1,478,883; Dec. 25.
Knife guide. W. A. Woodin. 1,478,501; Dec. 25.
Knife or similar article. J. B. Sherman. Des. 63,664; Dec. 25.
Knife-setting appliance. E. Vosburgh. 1,478,539; Dec. 25.
Ladder and the like, Fire. J. H. Osborne and A. W. Burford. 1,478,793; Dec. 25.
Ladder support, Roof-projection. P. G. Gauss. 1,478,823; Dec. 25.
Ladders, Attachment for. J. Comeau. 1,478,941; Dec. 25.
Lamp body. T. I. Duffy. Des. 63,639; Dec. 25.
Lamp, especially hydrocarbon incandescence lamp, Vapor. P. Lucas. 1,478,717; Dec. 25.
Lamp extinguisher. F. Stiyouk. 1,478,491; Dec. 25.
Lamp-fixture arm. A. J. D. Ohm. Des. 63,655; Dec. 25.
Lamp, Vehicle. F. A. Ross. Des. 63,659; Dec. 25.
Latch, Roller-door. P. H. Woolhether. 1,478,502; Dec. 25.
Leak detector, Automatic. B. C. McClure. 1,478,445; Dec. 25.
Lectures or songs, Delivering illustrated. A. F. Victor. 1,478,806; Dec. 25.
Leg rest. C. A. Washburn. 1,478,777; Dec. 25.
Lettering appliance. W. J. Lilly. 1,478,524; Dec 25.
License-plate holder. W. A. Carpentsy. 1,478,423; Dec. 25.
Light: *See*—
Electric light.
Lighting fixture. L. A. Crumley. Des. 63,633; Dec. 25.
Lighting fixture. C. J. Drees. 1,478,870; Dec. 25.
Lighting-fixture arm. G. Ainsworth. Des. 63,602; Dec. 25.
Lighting-fixture arm. I. Rosenblatt. Des. 63,658; Dec. 25.
Lighting-fixture bracket. F. S. Crowell. Des. 63,615; Dec. 25.
Lighting-fixture bracket. F. S. Crowell. Des. 63,619–22; Dec. 25.
Lighting-fixture bracket. F. S. Crowell. Des. 63,632; Dec. 25.
Lighting-fixture canopy. G. Ainsworth. Des. 63,605; Dec. 25.
Lighting-fixture canopy. H. T. Howell. Des. 63,648; Dec. 25.
Lighting-fixture ceiling fixture. F. S. Crowell. Des. 63,629–30; Dec. 25.
Lighting-fixture ceiling light. G. Ainsworth. Des. 63,607; Dec. 25.
Lighting-fixture ceiling light. H. T. Howell. Des. 63,647; Dec. 25

Lighting-fixture chandelier. F. S. Crowell. Des. 63,623–8; Dec. 25.
Lighting-fixture chandelier. F. S. Crowell. Des. 63,631; Dec. 25.
Lighting-fixture frame. L. A. Crumley. Des. 63,634; Dec. 25.
Lighting-fixture husk. G. Ainsworth. Des. 63,603; Dec. 25.
Lighting-fixture lantern. F. S. Crowell. Des. 63,616–18; Dec. 25.
Lighting-fixture loop. G. Ainsworth. Des. 63,601; Dec. 25.
Lighting-fixture loop. G. Ainsworth. Des. 63,604; Dec. 25.
Lighting-fixture panel. L. A. Crumley. Des. 63,635; Dec. 25.
Lighting-fixture pedestal. T. E. Dahl. Des. 63,638; Dec. 25.
Lighting-fixture socket cover. G. Ainsworth. Des. 63,606; Dec. 25.
Lighting fixtures or similar articles, Bracket for. L. A. Crumley. Des. 63,636; Dec. 25.
Lighting unit, Upright for a. J. W. Gosling. Des. 63,463; Dec. 25.
Link mesh, Machine for making. R. H. Berkley. 1,478,694; Dec. 25.
Liquid-fuel strainer. H. V. Gompf. 1,478,785; Dec. 25.
Liquid-treating apparatus. C. P. Landreth. 1,478,714; Dec. 25.
Load-carrying surfaces, Means for the production of. G. F. Underwood. 1,478,995; Dec. 25.
Lock: *See*—
Automobile lock. Package-receiver lock.
Furniture lock. Window lock.
Locomotive. W. E. Woodard. 1,478,593; Dec. 25.
Locomotive stoker. E. Pierce. 1,478,395; Dec. 25.
Looms, Pick counter for. A. H. Morton. 1,478,903; Dec. 25.
Lubricant compressor. N. W. Cummins. 1,478,848; Dec. 25.
Lubricating system. P. H. Gaskins. 1,478,513; Dec. 25.
Mallet, Polo. C. C. Meurisse. 1,478,483; Dec. 25.
Massage instrument. D. Gray. 1,478,388; Dec. 25.
Measuring device. E. R. Hardaker. 1,478,954; Dec. 25.
Measuring instrument and drill guide. W. J. Kleysteuber. 1,478,477; Dec. 25.
Meat casings, Making. C. S. Lenz and H. M. Cohen. 1,478,968; Dec. 25.
Mechanical puller. J. Grahek. 1,478,648; Dec. 25.
Mesh or grids, Device for counting. J. G. Servais. 1,478,536; Dec. 25.
Metal-cutting machine. S. J. Teller. 1,478,686; Dec. 25.
Meter: *See*—
Exposure meter.
Milking machine. J. J. Stampen. 1,478,802; Dec. 25.
Milking machinery. J. W. Fuge. 1,478,645; Dec. 25.
Mill: *See*—
Rolling mill. Tube reducing mill.
Mine-door-operating mechanism. H. C. Liggett, R. Peterson, and S. W. Liggett. 1,478,970; Dec. 25.
Minerals, Selective flotation of. G. A. Bragg. 1,478,697; Dec. 25.
Mirror for windshields, Adjustable. D. M. Winans. 1,478,689; Dec. 25.
Mold: *See*—
Fire-brick mold.
Mortar gauge. J. Walker. 1,478,776; Dec. 25.
Motor controller, Electric-. L. Kebler. 1,478,713; Dec. 25.
Motor scraper. H. Higham. 1,478,517; Dec. 25.
Needles for vaporizing burners or the like, Holder for cleaning. B. J. Bengtsson. 1,478,936; Dec. 25.
Nonskid device for automobiles. G. F. Crass. 1,478,847; Dec. 25.
Nonskid roof jack. M. H. Stansberry. 1,478,682; Dec. 25.
Note holder and cup remover for bottles, Combined. S. Ferency. 1,478,896; Dec. 25.
Nozzle, Burner. W. T. Adolphsen. 1,478,370; Dec. 25.
Nut-treating machine. S. Cooper. 1,478,869; Dec. 25.
Ocular. H. Erfle. 1,478,704; Dec. 25.
Oil and aluminum chloride, Mixing and delivering. G. H. King. 1,478,438; Dec. 25.
Oil burner. D. C. Whatley. 1,478,721; Dec. 25.
Oil tankers, Loading and discharge pipe-line system for. O. H. G. Steed. 1,478,925; Dec. 25.
Oil with aluminum chloride, Distilling. A. M. McAfee. 1,478,444; Dec. 25.
Ophthalmic mounting. H. E. Kirstein and H. W. Gage. 1,478,661; Dec. 25.
Organ stool, Pipe-. E. R. Howard. 1,478,567; Dec. 25.
Ores, Apparatus for the concentration of. S. H. Dolbear. 1,478,703; Dec. 25.
Ores, Concentrating carnotite. W. F. Bleecker. 1,478,631; Dec. 25.
Ores, Method of and apparatus for decomposing. J. D. Gat. 1,478,822; Dec. 25.
Ores, Roasting sulphide. P. R. Middleton. 1,478,790; Dec. 25.
Package-receiver lock. A. W. Chapman. 1,478,552; Dec. 25.
Pad: *See*—
Horseshoe pad. Sliding pad.
Pad holder. A. Otterbein. 1,478,880; Dec. 25.
Paper and cardboard making machines during their operation, Device for cleaning the felt of. H. Jotzen. 1,478,712; Dec. 25.
Parachute. E. Rogers. 1,478,677; Dec. 25.
Patch and making same. H. A. Morton and M. M. Harrison. 1,478,576; Dec. 25.
Peanuts and the like, Machine for removing the skins from. A. E. Hall. 1,478,431; Dec. 25.
Pen, Self-filling fountain. N. Nielson. 1,478,577; Dec. 25.
Perforating. B. T. Leveque. 1,478,441; Dec. 25.
Periscope, Automobile. L. Hallengren. 1,478,650; Dec. 25.
Phonograph tone-arm extension and reproducer mounting. T. E. Davidson. 1,478,700; Dec. 25.
Photographic films and apparatus therefor, Treatment of. C. T. Counsell. 1,478,639; Dec. 25.
Photographic films, Method and apparatus for drying. G. M. Dyer. 1,478,385; Dec. 25.
Photographic reproduction and method of and apparatus for making the same. J. G. Capstaff. 1,478,599; Dec. 25.
Piano roroll mechanism, Player-. T. Rotter. 1,478,456; Dec. 25.
Picture hanger. P. G. Underwood. 1,478,461; Dec. 25.
Pin: *See*—
Hinge pin. Shuttle-block pin.
Pipe: *See*—
Tobacco pipe.
Pipe coupling. C. L. Nelson. 1,478,452; Dec. 25.
Pipe-joint cleaner, Sewer. J. S. Rhinehart. 1,478,455; Dec. 25.
Piston. H. W. Bender. 1,478,368; Dec. 25.
Piston. P. Butcher. 1,478,887; Dec. 25.
Piston. R. C. Jones. 1,478,963; Dec. 25.
Piston and piston ring. M. Faessel. 1,478,561; Dec. 25.
Piston ring. H. E. Reaume. 1,478,486; Dec. 25.
Piston-ring compressor. W. C. Cook. 1,478,942; Dec 25.
Piston-ring holder. C. Barchus. 1,478,724; Dec. 25.
Piston, Pump. C. E. Frazier. 1,478,707; Dec. 25.
Pitcher or similar article. A. J. Fläuder. Des. 63,641; Dec. 25.
Planer, Portable. G. L. Kraber. 1,478,569; Dec. 25.
Plants and uncovering same, Machine for automatically shading. W. Herrmann. 1,478,516; Dec. 25.
Planter, Seed. R. L. Estes. 1,478,894; Dec. 25.
Plastic materials, Machine for injecting. C. Weber. 1,478,865; Dec. 25.
Plate or similar article. W. S. Pitcairn. Des. 63,656; Dec. 25.
Plug wrench, Port-. A. J. Young. 1,478,503; Dec. 25.
Pocket, Self-sealing. H. Meyer. 1,478,484; Dec. 25.
Potato digger. R. H. Hanks. 1,478,952; Dec. 25.
Powder, Smokeless propellant. T. L. Davis. 1,478,892; Dec. 25.
Powdered material, Process and apparatus for removing a vaporizable substance from. O. E. Merrell. 1,478,526; Dec. 25.
Press: *See*—
Automatic press. Printing press.
Hand press.
Press. C. D. Melton. 1,478,450; Dec. 25.
Primer and making same. W. Friederich. 1,478,429; Dec. 25.
Printing cylinders, Apparatus for applying sheets to. W. Gamble and M. Owen. 1,478,947; Dec. 25.
Printing press. H. J. Schultz. 1,478,488; Dec. 25.
Printing presses, Alarm attachment for. W. C. Strole. 1,478,775; Dec. 25.
Printing upon sensitized surfaces, Vacuum frame for. H. C. Jones. 1,478,828; Dec. 25.
Puller: *See*—
Mechanical puller.
Pulverizing apparatus. O. A. Kreutzberg. 1,478,478; Dec. 25.
Pump. R. O. Dulaney. 1,478,427; Dec. 25.
Pump. S. L. and L. Wottring. 1,478,417; Dec. 25.
Pump, Compound compression. F. S. Carver. 1,478,469; Dec. 25.
Pump coupling. J. J. O'Brien. 1,478,453; Dec. 25.
Pump, Hand-operated. A. W. Morse. 1,478,485; Dec. 25.
Pump or elevator, Liquid. J. E. L. Ogden. 1,478,792; Dec. 25.
Pump, Test-gauge. E. B. Crocker. 1,478,781; Dec. 25.
Pump, Valveless lubricating. O. Hajek and F. Ulberall. 1,478,430; Dec. 25.
Radiator core. C. F. Spery. 1,478,489; Dec. 25.
Radiator-thawing means. E. L. Carillon. 1,478,422; Dec. 25.
Radioreception coupler. E. M. Reynolds. 1,478,579; Dec. 25.
Rail brace, Adjustable. J. C. Edwards. 1,478,558; Dec. 25.
Railway audible signal. C. G. Huth. 1,478,742; Dec. 25.
Railway brake. B. Amendola. 1,478,881; Dec. 25.
Railway-crossing gate. H. McNish. 1,478,446; Dec. 25.
Railway-crossing signal. W. B. Kuhn. 1,478,663; Dec. 25.
Railway gate. C. G. Huth. 1,478,741; Dec. 25.
Railway-signaling-equipment receptacle. L. S. Atkinson. 1,478,540; Dec. 25.
Railway-track signal. F. L. Wanklyn. 1,478,592; Dec. 25.
Railway-traffic-controlling apparatus. R. A. McCann. 1,478,667; Dec. 25.

Railways, Portable switch for. C. W. Burris. 1,478,634; Dec. 25.
Ranges, Attachment for gas. M. W. Longfellow. 1,478,749; Dec. 25.
Razor double stropping machine. H. Seigman. 1,478,841; Dec. 25.
Razor sharpener. J. L. Peacock and F. Sayles. 1,478,835; Dec. 25.
Reamers, Apparatus for sharpening. B. J. Gundlach. 1,478,563; Dec. 25.
Receptacle and brush, Combined detergent. D. B. Kearney. 1,478,392; Dec. 25.
Recording device Automatic. M. Lauke. 1,478,612; Dec. 25.
Reducing apparatus, Feeding mechanism for. A. L. Bausman. 1,478,867; Dec. 25.
Refrigeration, Process and machine for. W. Stewart. 1,478,863; Dec. 25.
Refrigerator construction. R. E. Ottenheimer. 1,478,527; Dec. 25.
Refrigerator-door construction. A. W. Rowley and F. H. Ryder. 1,478,400; Dec. 25.
Regulating and controlling device, Automatic. R. E. Bechtold and A. W. Mellowes. 1,478,421; Dec. 25.
Regulator: *See*—
Grain-loading-spout regulator.
Relay. V. Brown and J. H. Pengilly. 1,478,547; Dec. 25.
Rim. L. H. Perlman. 1,478,528; Dec. 25.
Rim, Detachable. C. F. Rubsam. 1,478,581; Dec. 25.
Rim, Two-piece. A. Windmaiser. 1,478,934; Dec. 25.
Ring: *See*—
Key ring. Piston ring.
Ring mesh and chain machine. J. M. Weber. 1,478,808; Dec. 25.
Road scraper. E. J. Jackoboice. 1,478,436; Dec. 25.
Road signal. C. E. Lyman. 1,478,972; Dec. 25.
Rocker arm. S. B. Shaw. 1,478,679; Dec. 25.
Rods, Machine for cutting the pointed ends from. R. A. Stevens. 1,478,683; Dec. 25.
Rolling mill. J. B. Fawell. 1,478,992; Dec. 25.
Rolling mills, Roll for. S. E. Diescher. 1,478,509; Dec. 25.
Rudder. J. J. Toner. 1,478,928; Dec. 25.
Sachet bag or similar article. J. F. Stewart. Des. 63,666; Dec. 25.
Sadiron connection, Gas-heated. O. W. Sabold. 1,478,531; Dec. 25.
Salt manufacture. C. L. Weil. 1,478,990; Dec. 25.
Saw, Drag-. R. H. McDonald. 1,478,573; Dec. 25.
Screen: *See*—
Window screen.
Screen-door attachment. M. F. Fischer. 1,478,644; Dec. 25.
Screw-cutting machine. W. C. Farnum. 1,478,851; Dec. 25.
Sealing apparatus, Carton-. F. M. Peters and W. H. Hungerford. 1,478,836; Dec. 25.
Seat: *See*—
Douche seat.
Seed separator. J. B. Rylander. 1,478,616; Dec. 25.
Separator: *See*—
Centrifugal separator. Seed separator.
Sewing machine. F. A. Reece. 1,478,760; Dec. 25.
Sewing machines, Differential feeding mechanism for. R. R. Hughes, Jr. 1,478,519; Dec. 25.
Shade and curtain fixture. C. C. Parker. 1,478,673; Dec. 25.
Shade bracket, Adjustable. B. W. Whitworth. 1,478,779; Dec. 25.
Sharpeners, Pin-pulling device for drill. L. Hicks. 1,478,434; Dec. 25.
Shearing mechanism, Feed table for. W. R. Duda. 1,478,991; Dec. 25.
Shears, Clamping device for rotary. C. L. Huston and A. Goodfellow. 1,478,900; Dec. 25.
Sheave. M. E. Neenan. Re15,737; Dec. 25.
Sheet feeder. E. W. Belluche. 1,478,374; Dec. 25.
Sheet separating and feeding mechanism, Automatic. E. T. Waters. 1,478,464; Dec. 25.
Shingle strip. R. W. Bird. 1,478,544; Dec. 25.
Shock absorber. W. R. Hastedt. 1,478,711; Dec. 25.
Shock-absorbing device for spring-supported vehicles. N. E. Dufty. 1,478,642; Dec. 25.
Shoe. E. H. Binns. 1,478,467; Dec. 25.
Shoe. G. J. Hruska. Des. 63,649; Dec. 25.
Shoe cuff, Detachable. E. H. and R. H. Binns. 1,478,468; Dec. 25.
Shoe-shine stand, Portable foldable. R. A. Nemanich. 1,478,906; Dec. 25.
Shoe-staying machine. A. H. De Voe. 1,478,602; Dec. 25.
Shuttle-block pin. F. H. Stetson. 1,478,459; Dec. 25.
Sign letters, Forming interchangeable. W. L. Clark. 1,478,553; Dec. 25.
Sign, Reversible. C. A. Fetters. 1,478,511; Dec. 25.
Signal: *See*—
Automobile signal. Railway-track signal.
Railway audible signal. Road signal.
Railway-crossing signal.
Signal-device-operating mechanism. G. E. King. 1,478,901; Dec. 25.
Silk from acetyl cellulose, Manufacture of artificial. W. J. Stevenson. 1,478,926; Dec. 25.
Sleigh bolster, Extension. D. C. P. Shelby. 1,478,537; Dec. 25.
Sliding pad. C. Wares. 1,478,626; Dec. 25.
Soap, Reenforced. M. Bailly. 1,478,882; Dec. 25.
Socket wrench. J. O. Gadberry. 1,478,736; Dec. 25.
Soldering iron. A. E. Butkovich. 1,478,868; Dec. 25.
Soldering machine. H. O. Boehme. 1,478,696; Dec. 25.
Sorting table or file-distributing device. D. G. McCarty. 1,478,876; Dec. 25.
Sowing machine. A. C. P. Mooij. 1,478,753; Dec. 25.
Snow, Apparatus for the removal of. M. Schiesari. 1,478,678; Dec. 25.
Space-band cleaner. W. A. Lorenz and P. R. Hoopes. 1,478,442; Dec. 25.
Spark plug. C. P. and F. P. Hoopes and W. S. Steele. 1,478,654; Dec. 25.
Speedometer. E. H. Belden. 1,478,372; Dec. 25.
Spoon or similar article. S. V. James. Des. 63,650; Dec. 25.
Spoon or similar article. A. G. Kintz. Des. 63,651; Dec. 25.
Square, Mechanic's. W. M. Slavik. 1,478,800; Dec. 25.
Stand: *See*—
Shoe-shine stand. Switch stand.
Staple. T. H. Wetz and A. A. Evans. 1,478,932; Dec. 25.
Staple-driving machine. J. S. Hotchkiss. 1,478,858; Dec. 25.
Stay-bolt tap. F. O. Wells. 1,478,414; Dec. 25.
Steering-column support. W. F. Harrington. 1,478,389; Dec. 25.
Stencil and making and using the same. H. D. Kem. 1,478,745; Dec. 25.
Stereotype plates, Machine for casting. C. Winkler. 1,478,935; Dec. 25.
Stepladder. R. W. Shannon and C. E. Sanders. 1,478,617; Dec. 25.
Stoking mechanism. G. J. Hagan. 1,478,515; Dec. 25.
Stop and direction indicator. S. Gazse. 1,478,606; Dec. 25.
Stopper. M. Combs. 1,478,891; Dec. 25.
Stove, Heating. C. S. Knowles. 1,478,662; Dec. 25.
Stove, Thermoelectric heat-accumulating cooking. S. Sacerdote and S. Cristiani. 1,478,919; Dec. 25.
Stove-top construction. E. V. Coulston. 1,478,470; Dec. 25.
Strainer, Tea and coffee. C. Apothéloz. 1,478,628; Dec. 25.
Strap retainer, Shoulder-. C. W. Stocker. 1,478,773; Dec. 25.
Swimming appliance. W. B. Hobert, jr. 1,478,959; Dec. 25.
Switch: *See*—
Electric switch. Thermostatic switch.
Switch boxes, Locking device for. E. J. Weaver. 1,478,930; Dec. 25.
Switch stand. R. T. Butler. 1,478,888; Dec. 25.
Sword and revolver, Combined. S. Kaperzenski. 1,478,568; Dec. 25.
Table: *See*—
Chiropractic table. Ironing table.
Tag carrier, Laundry. A. F. Hanney. 1,478,825; Dec. 25.
Tag, Ear. W. J. Fretz. 1,478,605; Dec. 25.
Talking machines, Repeating mechanism for. J. C. Hitchner. 1,478,827; Dec. 25.
Tank-room structure. H. D. Pownall. 1,478,396; Dec. 25.
Telegraph apparatus. C. E. Walton. 1,478,412; Dec. 25.
Telephone-exchange system, Machine-switching. R. S. Bailey. 1,478,419; Dec. 25.
Telephone-exchange system, Machine-switching. C. L. Goodrum. 1,478,607; Dec. 25.
Telephone receiver, Tuned. H. Gernsback. 1,478,709; Dec. 25.
Thermocouple wells, Mounting for. D. M. Foster. 1,478,821; Dec. 25.
Thermostatic switch. H. J. Smith. 1,478,719; Dec. 25.
Thrashing machines, Attachment to. G. A. Hoffman. 1,478,960; Dec. 25.
Thread-measuring device. A. S. Perkins. 1,478,910; Dec. 25.
Throttle, Safety. E. B. Harris. 1,478,710; Dec. 25.
Tickets and baggage checks, Means for protecting and identifying passage. A. A. Glisson. 1,478,647; Dec. 25.
Tie plate and rail anticreeper, Combined. J. A. Hyle. 1,478,787; Dec. 25.
Tile and floor construction, Floor. G. G. Greulich. 1,478,872; Dec. 25.
Time-recording device, Watchman's. A. L. Lisoy. 1,478,666; Dec. 25.
Tire. H. A. Githens. Des. 63,642; Dec. 25.
Tire and manufacture of the same. E. H. Jones. 1,478,788; Dec. 25.
Tire attachment. H. H. Hathaway. 1,478,983; Dec. 25.
Tire, Automobile. H. Hoffstaedter. Des. 63,645; Dec. 25.
Tire carrier. C. C. Steel and T. H. Lynn. 1,478,406; Dec. 25.
Tire casing. R. J. O'Brien. 1,478,833; Dec. 25.
Tire, Emergency sectional. A. S. Brown. 1,478,885; Dec. 25.
Tire, Resilient. O. D. Hollenbeck. Des. 63,646; Dec. 25.
Tire, Resilient. H. O. Smith. Des. 63,665; Dec. 25.
Tire, Resilient vehicle. S. Heintz. Des. 63,644; Dec. 25.

Tire-tool method. J. W. Amico. 1,478,811; Dec. 25.
Tire tubes, Mandrel for. C. E. Lowe. 1,478,480; Dec. 25.
Tire valve and pressure gauge, Combined. O. F. R. Bromberg. 1,478,506; Dec. 25.
Tires, Antislipping attachment for motor-vehicle. A. N. Menzer and F. Mintnier. 1,478,613; Dec. 25.
Tires, Apparatus for testing. F. Schafer. 1,478,532; Dec. 25.
Tobacco pipe. J. D. Maier. 1,478,976; Dec. 25.
Tobacco-user's appliance. J. Dusek. 1,478,510; Dec. 25.
Toilet-seat coverings, Holding and serving device for. J. E. Jones. 1,478,744; Dec. 25.
Tongue fastener. L. F. Willett. 1,478,416; Dec. 25.
Tongs, Power pipe. E. L. McCloud and P. Kerwin. 1,478,668; Dec. 25.
Tool and grinder, Combination. J. T. Tillman. 1,478,993; Dec. 25.
Tool, Combination. T. H. Bartlett. 1,478,629; Dec. 25.
Tool holder. S. A. Lee. 1,478,967; Dec. 25.
Toothbrush, Child's. J. W. Bevans. Des. 63,608; Dec. 25.
Towel hanger, Rapid. F. Philippe, sr. 1,478,911; Dec. 25.
Toy. L. C. Lowder. Des. 63,652; Dec. 25.
Toy balloon. J. F. Mulholland. 1,478,755; Dec. 25.
Toy, Balloon. F. A. O'Connor. 1,478,757; Dec. 25.
Toy vehicle. F. Hornquist. 1,478,739; Dec. 25.
Track gauge. J. T. Doyle. 1,478,604; Dec. 25.
Track, Method of and means for reconstructing. W. P. Day. 1,478,508; Dec. 25.
Tractor. G. R. Gehrandt. 1,478,824; Dec. 25.
Tractor attachment hitch. O. M. Marriott, E. W. Hunt, and E. V. Kirby. 1,478,482; Dec. 25.
Tractors, Antitilting device for. D. Duncan. 1,478,428; Dec. 25.
T rail, Composite. H. M. Lofton. 1,479,715; Dec. 25.
Trap nest. H. C. Smith. 1,478,620; Dec. 25.
Tree: *See*—
Artificial tree.
Trousers, Device for creasing. S. R. Eberman and C. W. Ferris. 1,478,386; Dec. 25.
Trousers stretcher. H. Schäfer. 1,478,533; Dec. 25.
Trousers, Waistband for. B. V. Kershner. 1,478,521; Dec. 25.
Truck and rack, Barrel. G. O. Rhodes. 1,478,913; Dec. 25.
Truck, Hoisting. J. Hamilton. 1,478,432; Dec. 25.
Trunk catch or fastener. G. Willringhaus. 1,478,499–500; Dec. 25.
Tube expander, beader, and cutter, Combination. A. J. Baranoff. 1,478,692; Dec. 25.
Tube-reducing mill. R. C. Stiefel. 1,478,772; Dec. 25.
Tubes, Device for winding convolute. C. K. Dunlap. 1,478,944; Dec. 25.
Tunneling machine. L. W. Anderson. 1,478,466; Dec. 25.
Turbines and steam turbines, Means for fastening the blades in gas. A. Meyer. 1,478,902; Dec. 25.
Typewriter attachment, Silent-key. L. Cardoso. 1,478,600; Dec. 25.
Typewriter, Music. L. Fortoni. 1,478,946; Dec. 25.
Typewriters, Line finder for. O. A. Hokanson. 1,478,474; Dec. 25.
Typewriting machine. G. W. Campbell. 1,478,698; Dec. 25.
Typewriting machine. M. C. Crawley. 1,478,380; Dec. 25.
Typewriting machine. J. C. Doane. 1,478,702; Dec. 25.
Typewriting machine. C. W. Marsh. 1,478,877; Dec. 25.
Typewriting machine. C. W. and A. C. Walker. 1,478,591; Dec. 25.
Unit drier. L. B. Case. 1,478,938; Dec. 25.
Valve. F. D. Blauvelt. 1,478,815; Dec. 25.
Valve. C. F. Mattingly. 1,478,670; Dec. 25.
Valve and depth indicator, Combined high and low level. L. Rieske. 1,478,580; Dec. 25.
Valve, Automatic fountain. C. F. Mattingly. 1,478,669; Dec. 25.
Valve cap, Deflating. H. P. Kraft. 1,478,610; Dec. 25.
Valve-controlling mechanism. W. Turnwald. 1,478,843; Dec. 25.
Valve, Multiple supply. A. C. Whidden. 1,478,688; Dec. 25.
Valve-pin tool. K. Dahm. 1,478,555; Dec. 25.
Valve stems, Cap for. H. B. Mead. 1,478,448; Dec. 25.
Vault, Asphalt-mastic and coal-tar-mastic casket. W. E. Sheene. 1,478,769; Dec. 25.
Vegetable cutter. H. O. Taylor and J. Dresdner. 1,478,684; Dec. 25.
Vehicle brake. Z. A. Davisson. 1,478,641; Dec. 25.
Vehicle brake. C. H. Gill. 1,478,646; Dec. 25.
Vehicle construction. J. S. Parenti. 1,478,860; Dec. 25.
Vehicle direction indicator. H. W. Lundquist. 1,478,571; Dec. 25.
Vehicle runner. A. Pinard. 1,478,796; Dec. 25.
Vehicle securing device. W. W. Blakely. 1,478,505; Dec. 25.
Vehicle wheel. W. S. Gauntt. 1,478,852; Dec. 25.
Vehicles, Advertising device for rond and other. A. C. Jago and E. A. Wade. 1,478,475; Dec. 25.
Vehicles, Body construction for motor. A. Gravel. 1,478,387; Dec. 25.
Vehicles, Brake slack adjuster for railway. A. E. Hayward. 1,478,957; Dec. 25.
Vehicles, Control mechanism of power-propelled. F. W. Lanchester. 1,478,966; Dec. 25.
Vehicles, Lateral dirigible light for. C. E. Stoner. 1,478,587; Dec. 25.
Vending-machine housing. E. C. Booth. Des. 63,609; Dec. 25.
Wagon, Farm. J. Long and A. J. Bass. 1,478,831; Dec. 25.
Warping machines, Stop attachment for. J. J. Roberts. 1,478,915; Dec. 25.
Waste receptacle. J. A. Becker. 1,478,884; Dec. 25.
Watchcase. A. W. Wadsworth and A. P. Conant. Des. 63,669–71; Dec. 25.
Water heater, Boiler-feed-. W. Hildebrand. 1,478,855; Dec. 25.
Water wheel. R. D. Kelly. 1,478,657; Dec. 25.
Weather stripping, Automatic. G. E. Marcotte. 1,478,974; Dec. 25.
Well-drilling apparatus, Band wheel for oil-. J. E. Campsey. 1,478,548; Dec. 25.
Wheat temperer. E. J. Compton. 1,478,734; Dec. 25.
Wheel: *See*—
Automobile wheel. Vehicle wheel.
Fan wheel. Water wheel.
Wheel. W. B. Kerrick. Re15,736; Dec. 25.
Wheel. A. Mathis. 1,478,978; Dec. 25.
Wheel. F. H. Walkley. 1,478,493; Dec. 25.
Wheel. G. Walther. 1,478,496; Dec. 25.
Wheels, Casting steel. G. Walther. 1,478,494; Dec. 25.
Wheels, Demountable rim for automobile. W. J. Bruce. 1,478,633; Dec. 25.
Wheels, Rim for vehicle. C. F. Erickson. 1,478,893; Dec. 25.
Wind deflector. C. D. Miller. 1,478,671; Dec. 25.
Window construction. H. J. Smith. 1,478,922; Dec. 25.
Window fastener. W. Czapkowsky. 1,478,735; Dec. 25.
Window lock. A. W. Emerson. 1,478,871; Dec. 25.
Window screen. C. G. Hallberg. 1,478,899; Dec. 25.
Windshield-top support. W. S. Saunders. 1,478,457; Dec. 25.
Wire-bundling machine. A. J. Gerrard and P. Wright. 1,478,514; Dec. 25.
Wire chains, Auxiliary device for inserting leaves of solder into the joints of the links of. E. Becker. 1,478,813; Dec. 25.
Wire-line clamp. E. C. Gilliam. 1,478,950; Dec. 25.
Wires, Method and apparatus for inserting support. F. C. Ingold. 1,478,859; Dec. 25.
Wood pulp, Digesting. E. Morterud. 1,478,614; Dec. 25.
Wool cards, Point-to-point breast for. E. V. Bates. 1,478,630; Dec. 25.
Woven or knitted articles or fabrics, Apparatus for darning. H. L. Kingsmill. 1,478,984; Dec. 25.
Wrench: *See*—
Plug wrench. Socket wrench.
Wrench. A. S. Fisher. 1,478,512; Dec. 25.
X-ray-film holder and examining frame. J. A. Adler. 1,478,504; Dec. 25.

CLASSIFICATION OF PATENTS

ISSUED DECEMBER 25, 1923.

NOTE.—First number=class, second number=subclass, third number=patent number.

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